

Cover Page

Order ID : Q3038

Project ID : Emerson Vapor Intrusion REG006-0309010-25011690

Client : Apex Companies, LLC.

Lab Sample Number

Q3038-01

Client Sample Number

SV-1

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 : _____

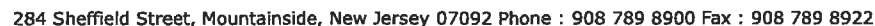
Date: 9/18/2025

NYDOH CERTIFICATION NO - 11376

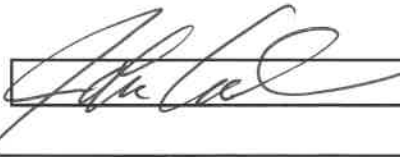
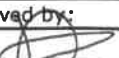
NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS



Q 3038

Client Contact Information				Bottle Order ID : B2508049				Courier :				1 of 1 COCs					
Client ID : APEX04				Project ID : Emerson Vapor Intrusion REG006-0309010-2				Sampler Name(s) :				Analysis		Matrix			
Customer Name : Apex Companies, LLC. Address : 485 Route 1 South, Building B, Suite 130 City : Iselin State : NJ Zip Code : 08830 Country :				Project Manager : MICHAEL DZIEDZIC				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				TO-15 - <i>ONLY REPORT: PCE, TCE, vinylchloride, 1,2-DCE</i>		Indoor/Ambient Air		Soil Gas	
				Phone Number : 973-475-5502													
				Fax Number :													
				Site Details:													
				Analysis Turnaround Time				Data Package Type :									
				Standard : 10 business days OR				EDD Type :									
				Rush (Specify): <u>5</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			
SV-1	9/15/25	08:00	08:30	29.00	-5.00			-30	-9.6	10545	10122	1.4 L	50	VL042090.D	X	X	
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.							
		Ambient	Maximum	Minimum				Please follow the instructions on the back of this COC.									
Start																	
Stop																	
Special Instructions/QC Requirements & Comments : <i>Please keep the SV & Indoor Air Reports separate</i>																	
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i>																	
Sampling site (State): <i>New Jersey</i>																	
Quick Connector required : <i>yes</i>																	
Canisters Shipped by: <i>GC</i>		Date/Time: <i>9/13/25</i>		Canisters Received by: 		Date/Time: <i>9-15-25 16:00</i>		Canisters Received by: 		Date/Time: <i>9-15-25 16:20</i>		B2508049 - 1					
Samples Relinquished by: <i>doris Arlan</i>		Date/Time: <i>9/15/25 16:00</i>		Received by: 		Date/Time:		Received by: 		Date/Time:							
Relinquished by:		Date/Time:		Received by:		Date/Time:		Received by:		Date/Time:							

Laboratory Certification

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

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~QABG:~~

Title: Sample Custodian

Field Sample Seal No. Q3038

Date Broken 9/8/2025

Military Time Seal Broken: 16:20:00

Case No.: Emerson Vapor Intrusion R

Analytical Parameter/Fraction TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3038-01	SV-1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/8/25	2:50	Signature 	Signature 	
		Printed Name <u>Caroline C. Lee</u>	Printed Name <u>Samantha Yudof</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	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID:

Document Control # A3041228

CHEMTECH

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

Client Sample ID #: SV-1

Client Name: Aper

Project Name: EMERSON Phase II

Date: 9/5/25 Time: _____

Analysis: _____

Comments: _____

CHEMTECH

Date Received

Storage Location: Air Lab

Sample: Q3038-01

Cust #: SV-1

Disposal: _____

922-101

B2508049



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

CASE NARRATIVE

Apex Companies, LLC.

Project Name: Emerson Vapor Intrusion REG006-0309010-25011690

Project # N/A

Order ID # Q3038

Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

1 Air sample was received on 09/05/2025.

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 were met for all analysis.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Due to potential high concentration of target analytes, Sample SV-1 was initially diluted.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

The Manual Integrations are performed for the followings:

Manual Integration Report

Sequence	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly

VSTDICC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042844.D	t-1,3- Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042844.D	trans-1,2- Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	1,1,2- Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	2,2,4- Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	4-Methyl-2- Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	cis-1,3- Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	t-1,3- Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25	MMDadoda	8/18/2025 8:42:16	Peak Integrated

				AM		AM	by Software incorrectly
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software incorrectly

Sequence	VL090825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042900.D	m/p-Xylene	sam	9/9/2025 12:26:34 PM	MMDadoda	9/11/2025 5:28:20 PM	Peak Integrated by Software incorrectly
VL0908ABS01	VL042902.D	m/p-Xylene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software incorrectly
VL0908ABS01	VL042902.D	Propene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Benzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	m/p-Xylene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Methyl Methacrylate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	n-propylbenzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Propene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly

Q3037-01DUP	VL042905.D	Tetrahydrofuran	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Toluene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Trichlorofluoromethane	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Vinyl Acetate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3038-01	VL042906.D	Trichloroethene	sam	9/9/2025 12:31:51 PM	MMDadoda	9/11/2025 5:25:29 PM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3038

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 Castody

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/18/2025



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

LAB CHRONICLE

OrderID:	Q3038	OrderDate:	9/8/2025 8:56:00 AM
Client:	Apex Companies, LLC.	Project:	Emerson Vapor Intrusion
Contact:	Michael Dziedzic	Location:	REC-005-0309910-25011690

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3038-01	SV-1	Air	VOCMS Group2	TO-15	09/05/25		09/08/25	09/05/25



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

Hit Summary Sheet
SW-846

SDG No.: Q3038

Client: Apex Companies, LLC.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV-1							
Q3038-01	SV-1	Air	Trichloroethene	2.15		0.54	0.64	ug/m3
Q3038-01	SV-1	Air	Tetrachloroethene	317		0.41	0.81	ug/m3
			Total Voc :		320			
			Total Concentration:		320			

Project : Emerson Vapor Intrusion REG006-0309010-25011690

Sampling Date : 09/05/25

Field Id Number : SV-1

Analysis Date : 09/08/25

Laboratory Id Number : Q3038-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Vinyl Chloride	75-01-4	62.5	0.1	U	0.26		
1,2-Dichloroethane	107-06-2	98.96	0.37	U	1.5		
Trichloroethene	79-01-6	131.4	0.4		2.15		
Tetrachloroethene	127-18-4	165.8	46.8		317		

Method	Matrix	Parameter	Instrument ID	Column ID	MDL (ppbv)	RL (ppbv)	MB Data	MB Datafile	StdevVal
TO-15	Air	1,1,1,2-Tetrachloroethane	MSVOA_L	RTX-1	0.089	0.50	0		0.028115408
TO-15	Air	1,1,1-Trichloroethane	MSVOA_L	RTX-1	0.016	0.030	0		0.005089672
TO-15	Air	1,1,2,2-Tetrachloroethane	MSVOA_L	RTX-1	0.018	0.030	0		0.005472877
TO-15	Air	1,1,2-Trichloroethane	MSVOA_L	RTX-1	0.081	0.50	0		0.02572751
TO-15	Air	1,1,2-Trichlorotrifluoroethane	MSVOA_L	RTX-1	0.14	0.50	0		0.042983939
TO-15	Air	1,1-Dichloroethane	MSVOA_L	RTX-1	0.13	0.50	0		0.040178175
TO-15	Air	1,1-Dichloroethene	MSVOA_L	RTX-1	0.15	0.50	0		0.047056197
TO-15	Air	1,2,4-Trichlorobenzene	MSVOA_L	RTX-1	0.21	0.50	0		0.064291005
TO-15	Air	1,2,4-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054467115
TO-15	Air	1,2-Dibromoethane	MSVOA_L	RTX-1	0.085	0.10	0		0.026726124
TO-15	Air	1,2-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.040999419
TO-15	Air	1,2-Dichloroethane	MSVOA_L	RTX-1	0.093	0.50	0		0.029277002
TO-15	Air	1,2-Dichloropropane	MSVOA_L	RTX-1	0.13	0.50	0		0.039880775
TO-15	Air	1,3,5-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054598099
TO-15	Air	1,3-Butadiene	MSVOA_L	RTX-1	0.051	0.50	0		0.016035675
TO-15	Air	1,3-Dichlorobenzene	MSVOA_L	RTX-1	0.054	0.50	0		0.017043362
TO-15	Air	1,4-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.039460649
TO-15	Air	1,4-Dioxane	MSVOA_L	RTX-1	0.22	0.50	0		0.067330033
TO-15	Air	2,2,4-Trimethylpentane	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	2-Butanone	MSVOA_L	RTX-1	0.056	0.50	0		0.017728105
TO-15	Air	2-Chlorotoluene	MSVOA_L	RTX-1	0.17	0.50	0		0.052599113
TO-15	Air	2-Hexanone	MSVOA_L	RTX-1	0.11	0.50	0		0.033523268
TO-15	Air	4-Ethyltoluene	MSVOA_L	RTX-1	0.21	0.50	0		0.066332496
TO-15	Air	4-Methyl-2-Pentanone	MSVOA_L	RTX-1	0.097	0.50	0		0.030783422
TO-15	Air	Acetone	MSVOA_L	RTX-1	0.18	0.50	0		0.055592052
TO-15	Air	Allyl Chloride	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Benzene	MSVOA_L	RTX-1	0.079	0.50	0		0.025071327
TO-15	Air	Benzyl Chloride	MSVOA_L	RTX-1	0.089	0.50	0		0.028284271
TO-15	Air	Bromodichloromethane	MSVOA_L	RTX-1	0.063	0.50	0		0.019880596
TO-15	Air	Bromoethene	MSVOA_L	RTX-1	0.2	0.50	0		0.062678317
TO-15	Air	Bromoform	MSVOA_L	RTX-1	0.048	0.50	0		0.015118579
TO-15	Air	Bromomethane	MSVOA_L	RTX-1	0.077	0.50	0		0.024494897
TO-15	Air	Carbon Disulfide	MSVOA_L	RTX-1	0.08	0.50	0		0.02544836
TO-15	Air	Carbon Tetrachloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007690439
TO-15	Air	Chlorobenzene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	Chlorodifluoromethane	MSVOA_L	RTX-1	0.12	0.50	0		0.037859389
TO-15	Air	Chloroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045250625
TO-15	Air	Chloroform	MSVOA_L	RTX-1	0.096	0.50	0		0.030394235
TO-15	Air	Chloromethane	MSVOA_L	RTX-1	0.098	0.50	0		0.03101459
TO-15	Air	cis-1,2-Dichloroethene	MSVOA_L	RTX-1	0.099	0.50	0		0.031471832
TO-15	Air	cis-1,3-Dichloropropene	MSVOA_L	RTX-1	0.11	0.50	0		0.032071349
TO-15	Air	Cyclohexane	MSVOA_L	RTX-1	0.22	0.50	0		0.06972736
TO-15	Air	Dibromochloromethane	MSVOA_L	RTX-1	0.085	0.50	0		0.026726124
TO-15	Air	Dichlorodifluoromethane	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Dichlorotetrafluoroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045460606
TO-15	Air	Ethanol	MSVOA_L	RTX-1	0.32	0.50	0		0.098848128
TO-15	Air	Ethyl Acetate	MSVOA_L	RTX-1	0.12	0.50	0		0.036384193
TO-15	Air	Ethyl Benzene	MSVOA_L	RTX-1	0.19	0.50	0		0.058554004
TO-15	Air	Heptane	MSVOA_L	RTX-1	0.17	0.50	0		0.051130086
TO-15	Air	Hexachloro-1,3-Butadiene	MSVOA_L	RTX-1	0.13	0.50	0		0.038297084
TO-15	Air	Hexane	MSVOA_L	RTX-1	0.16	0.50	0		0.04894117
TO-15	Air	Isopropyl Alcohol	MSVOA_L	RTX-1	0.23	0.50	0		0.070676998
TO-15	Air	Isopropylbenzene	MSVOA_L	RTX-1	0.16	0.50	0		0.048205908
TO-15	Air	m/p-Xylene	MSVOA_L	RTX-1	0.41	1.00	0		0.130091543
TO-15	Air	Methyl Methacrylate	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	Methyl tert-Butyl Ether	MSVOA_L	RTX-1	0.23	0.50	0		0.07296444
TO-15	Air	Methylene Chloride	MSVOA_L	RTX-1	0.23	0.50	0		0.07204496
TO-15	Air	Naphthalene	MSVOA_L	RTX-1	0.013	0.10	0		0.004076647
TO-15	Air	Naphthalene,2-methyl-	MSVOA_L	RTX-1	0.22	0.50	0		0.069213266
TO-15	Air	n-Butylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.055805786
TO-15	Air	n-propylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.061644414
TO-15	Air	o-Xylene	MSVOA_L	RTX-1	0.21	0.50	0		0.06491753
TO-15	Air	p-Isopropyltoluene	MSVOA_L	RTX-1	0.19	0.50	0		0.059561893
TO-15	Air	Propene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	sec-Butylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.061913919
TO-15	Air	Styrene	MSVOA_L	RTX-1	0.16	0.50	0		0.05
TO-15	Air	t-1,3-Dichloropropene	MSVOA_L	RTX-1	0.15	0.50	0		0.046496288
TO-15	Air	tert-Butyl alcohol	MSVOA_L	RTX-1	0.16	0.50	0		0.048892496
TO-15	Air	tert-Butylbenzene	MSVOA_L	RTX-1	0.22	0.50	0		0.067928534
TO-15	Air	Tetrachloroethene	MSVOA_L	RTX-1	0.015	0.030	0		0.004725816
TO-15	Air	Tetrahydrofuran	MSVOA_L	RTX-1	0.08	0.50	0		0.025166115
TO-15	Air	Toluene	MSVOA_L	RTX-1	0.16	0.50	0		0.050142654
TO-15	Air	trans-1,2-Dichloroethene	MSVOA_L	RTX-1	0.12	0.50	0		0.036968455
TO-15	Air	Trichloroethene	MSVOA_L	RTX-1	0.024	0.030	0		0.007587584
TO-15	Air	Trichlorofluoromethane	MSVOA_L	RTX-1	0.17	0.50	0		0.053452248
TO-15	Air	Vinyl Acetate	MSVOA_L	RTX-1	0.26	0.50	0		0.079671946
TO-15	Air	Vinyl Chloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007955232

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



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

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



QC SUMMARY

Surrogate Summary

SDG No.: Q3038

Client: Apex Companies, LLC.

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3037-01DUP	IA-2DUP	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3038-01	SV-1	1-Bromo-4-Fluorobenzene	10	9.77	98		70 (65)	130 (135)
VL0908ABL01	VL0908ABL01	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
VL0908ABS01	VL0908ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3038</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Apex Companies, LLC.</u>	Datafile :	<u>VL042902.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0908ABS01	Vinyl Chloride	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,2-Dichloroethane	10	12.7	ppbv	127			70 (70)	130 (130)	
	Trichloroethene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Tetrachloroethene	10	9.60	ppbv	96			70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q3037-01DUP	Q3037-01
Client Id :	IA-2DUP	IA-2
DF :	1	1
Datafile :	VL042905.D	VL042904.D
Anal Date & Time :	09/08/2025 15:59	09/08/2025 15:15

Parameter	Result	Result	RPD
1,2-Dichloroethane	0	0	0
Tetrachloroethene	0	0	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0908ABL01

Lab Name: Alliance

Contract: APEX04

Lab Code: ACE

SDG NO.: Q3038

Lab File ID: VL042901.D

Lab Sample ID: VL0908ABL01

Date Analyzed: 09/08/2025

Time Analyzed: 11:55

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
VL0908ABS01	VL0908ABS01	VL042902.D	09/08/2025
IA-2DUP	Q3037-01DUP	VL042905.D	09/08/2025
SV-1	Q3038-01	VL042906.D	09/08/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: APEX04

Lab Code: ACE

SDG NO.: Q3038

Lab File ID: VL042841.D

BFB Injection Date: 08/13/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:45

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.8
75	30.0 - 66.0% of mass 95	53.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	60 (96.7) 1
177	5.0 - 9.0% of mass 176	3.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042842.D	08/13/2025	08:30
VSTDICCC002	VSTDICCC002	VL042843.D	08/13/2025	09:06
VSTDICCC001	VSTDICCC001	VL042844.D	08/13/2025	09:41
VSTDICCC0.5	VSTDICCC0.5	VL042845.D	08/13/2025	10:17
VSTDICCC0.1	VSTDICCC0.1	VL042846.D	08/13/2025	10:53
VSTDICCC0.03	VSTDICCC0.03	VL042847.D	08/13/2025	11:30
VSTDICCC015	VSTDICCC015	VL042848.D	08/13/2025	12:06

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: APEX04

Lab Code: ACE

SDG NO.: Q3038

Lab File ID: VL042899.D

BFB Injection Date: 09/08/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:41

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	23.4
75	30.0 - 66.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (1) 1
174	50.0 - 120.0% of mass 95	55.2
175	4.0 - 9.0% of mass 174	4 (7.3) 1
176	93.0 - 101.0% of mass 174	54.2 (98.3) 1
177	5.0 - 9.0% of mass 176	3.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042900.D	09/08/2025	11:05
VL0908ABL01	VL0908ABL01	VL042901.D	09/08/2025	11:55
VL0908ABS01	VL0908ABS01	VL042902.D	09/08/2025	13:35
IA-2DUP	Q3037-01DUP	VL042905.D	09/08/2025	15:59
SV-1	Q3038-01	VL042906.D	09/08/2025	16:33

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: APEX04
 Lab Code: ACE SDG NO.: Q3038
 Lab File ID: VL042900.D Date Analyzed: 09/08/2025
 Instrument ID: MSVOA_L Time Analyzed: 11:05
 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	126678	2.78	333606	3.94	282770	8.87
UPPER LIMIT	177349	3.11	467048	4.27	395878	9.20
LOWER LIMIT	76006.8	2.45	200164	3.61	169662	8.54
EPA SAMPLE NO.						
IA-2DUP	141221	2.78	372044	3.95	303028	8.88
SV-1	142770	2.78	358223	3.95	300604	8.87
VL0908ABL01	141293	2.78	355217	3.95	298537	8.88
VL0908ABS01	139945	2.78	365857	3.95	306385	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:	Apex Companies, LLC.	Date Collected:	09/05/25
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	09/05/25
Client Sample ID:	SV-1	SDG No.:	Q3038
Lab Sample ID:	Q3038-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042906.D	4		09/08/25 16:33	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.10	0.26	U	0.26	0.31
107-06-2	1,2-Dichloroethane	0.37	1.50	U	1.50	8.09
79-01-6	Trichloroethene	0.40	2.15		0.54	0.64
127-18-4	Tetrachloroethene	46.8	317		0.41	0.81
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	9.80			70 (65) - 130 (135)	98% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	143000		2.78		
540-36-3	1,4-Difluorobenzene	358000		3.949		
3114-55-4	Chlorobenzene-d5	301000		8.872		

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\VL090825\
 Data File : VL042906.D
 Acq On : 08 Sep 2025 16:33
 Operator : SY/MD
 Sample : Q3038-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:57:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	142770	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	358223	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	300604	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	220147	9.765	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	2637	0.126	ppbv	100
3) Chlorodifluoromethane	1.470	51	152267	6.584	ppbv	94
4) Chloromethane	1.528	50	1401	0.166	ppbv	88
13) Ethanol	1.719	45	21534	23.579	ppbv	93
15) Acetone	1.832	43	117769	6.236	ppbv	93
19) Isopropyl Alcohol	1.884	45	124685	11.054	ppbv #	37
20) Methylene Chloride	2.055	84	7932	1.003	ppbv	86
26) Hexane	2.819	57	18740	0.888	ppbv #	46
29) Chloroform	2.845	83	3811	0.127	ppbv	91
34) 2-Butanone	2.554	43	83905	3.469	ppbv	99
36) Benzene	3.651	78	6417	0.187	ppbv #	74
38) Trichloroethene	4.535	130	1571m	0.100	ppbv	
52) Tetrachloroethene	8.218	164	145329	11.711	ppbv	96
53) Toluene	6.923	91	8585	0.211	ppbv	97

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

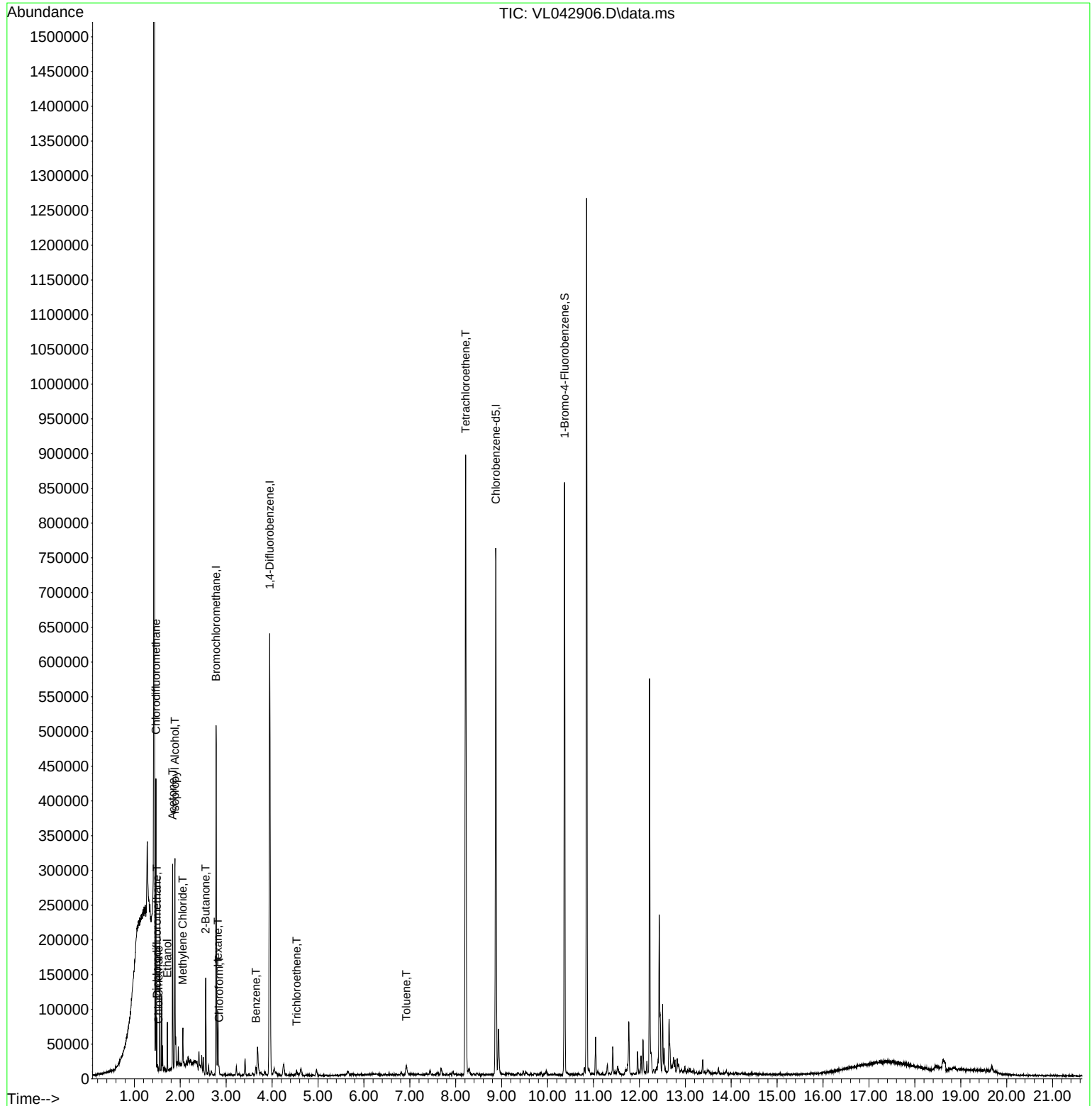
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042906.D
Acq On : 08 Sep 2025 16:33
Operator : SY/MD
Sample : Q3038-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

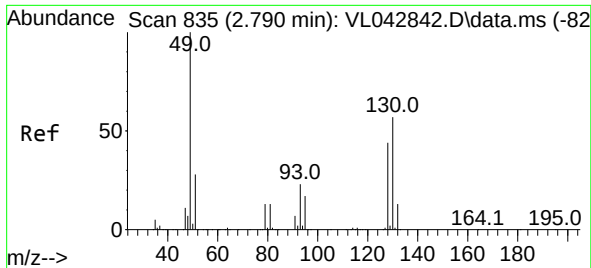
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Quant Time: Sep 09 00:57:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

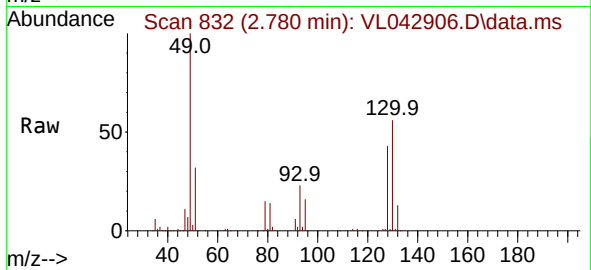
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

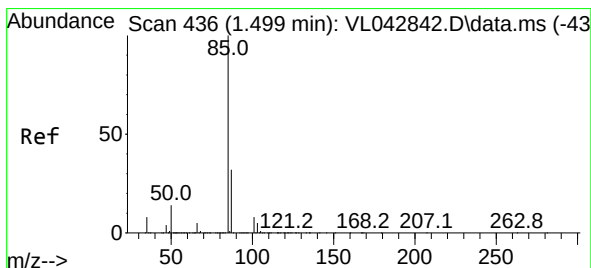
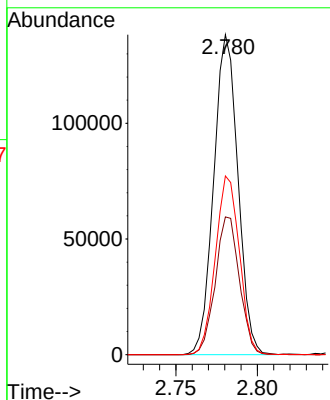
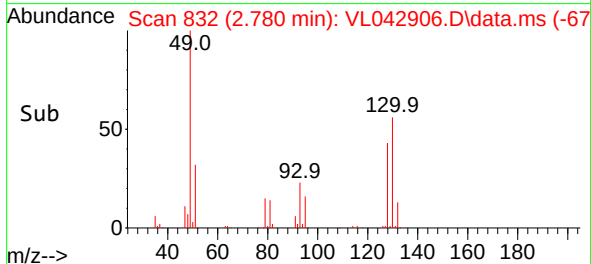
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 49 Resp: 142770
Ion Ratio Lower Upper
49 100
128 43.0 23.7 71.1
130 55.5 30.6 91.6

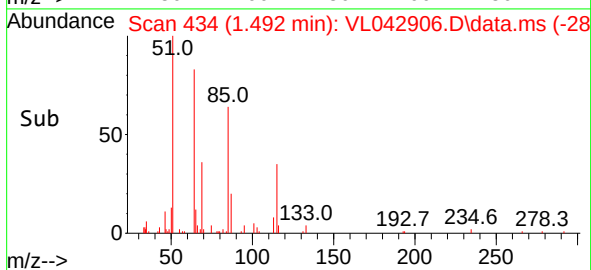
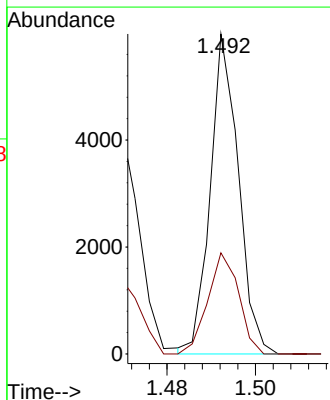
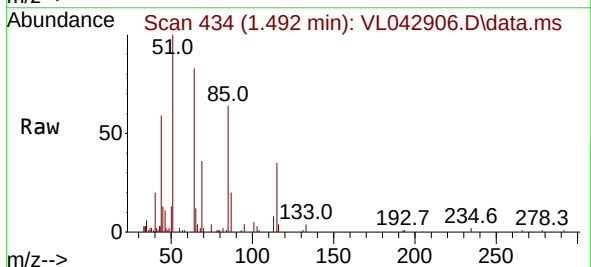
Manual Integrations
APPROVED

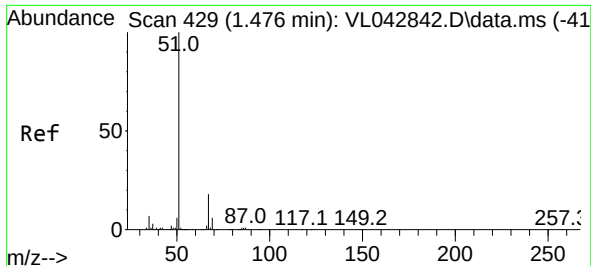
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.126 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

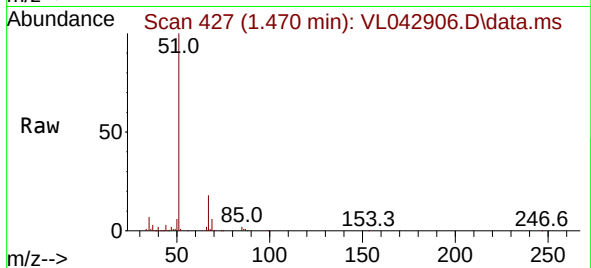
Tgt Ion: 85 Resp: 2637
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 6.584 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

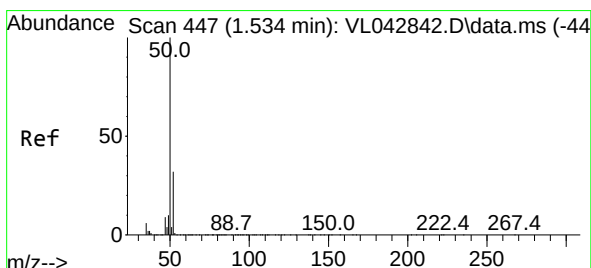
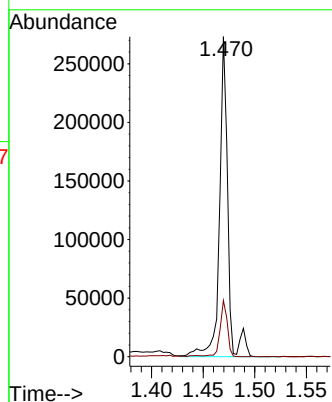
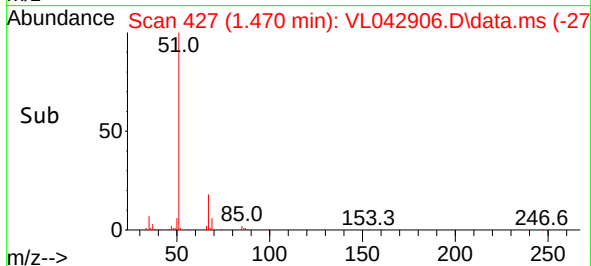
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 51 Resp: 15226
Ion Ratio Lower Upper
51 100
67 15.8 14.9 22.3

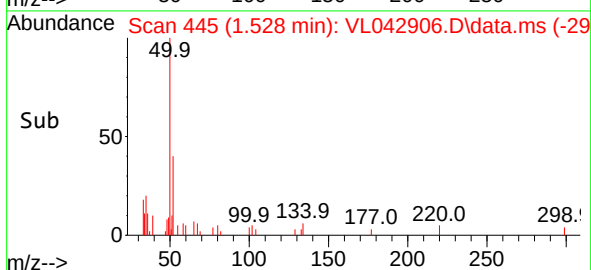
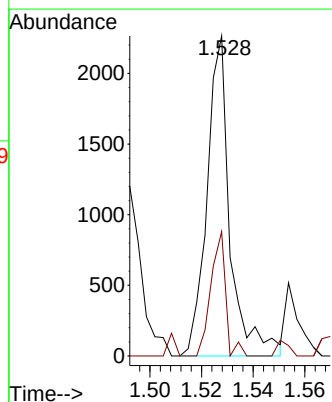
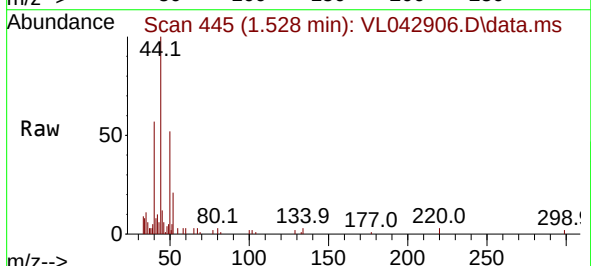
Manual Integrations
APPROVED

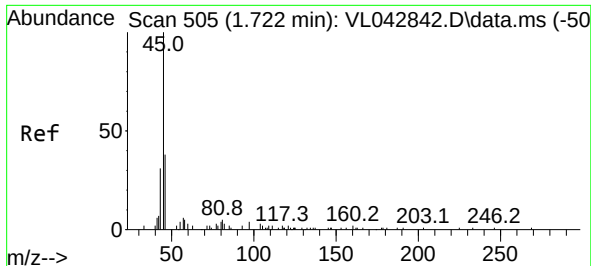
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.166 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 50 Resp: 1401
Ion Ratio Lower Upper
50 100
52 38.9 25.9 38.9





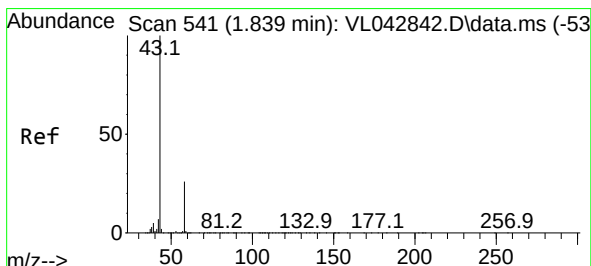
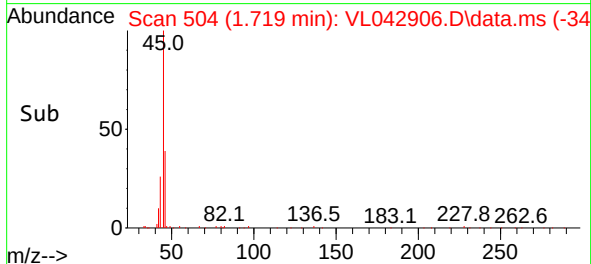
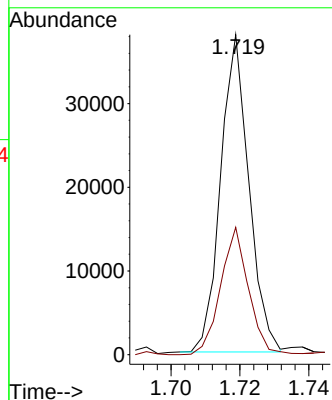
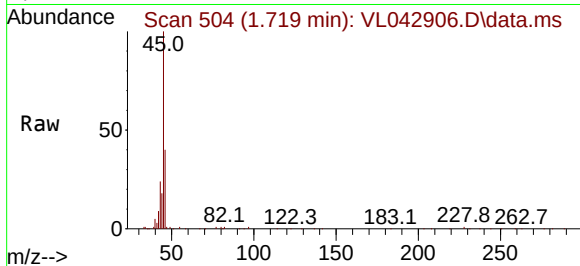
#13
 Ethanol
 Concen: 23.579 ppbv
 RT: 1.719 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tgt Ion: 45 Resp: 21534
 Ion Ratio Lower Upper
 45 100
 46 39.5 17.5 69.9

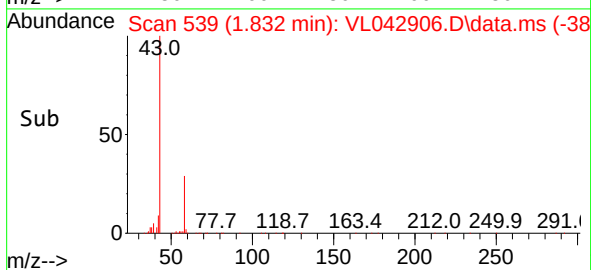
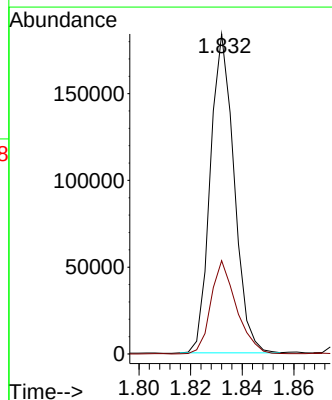
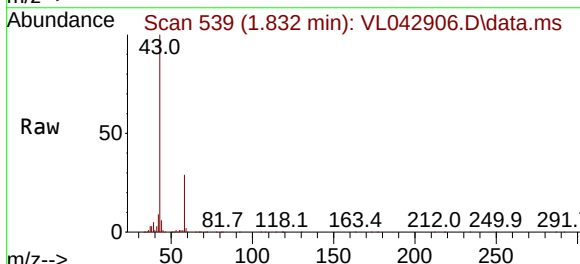
Manual Integrations
 APPROVED

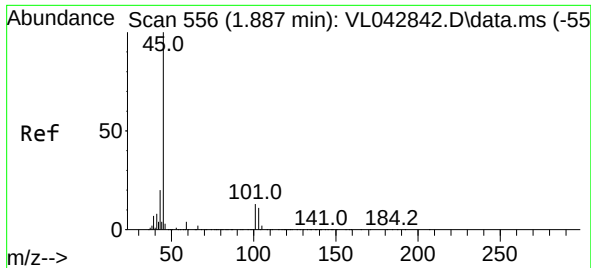
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#15
 Acetone
 Concen: 6.236 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. 0.003 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 117769
 Ion Ratio Lower Upper
 43 100
 58 31.5 22.4 33.6





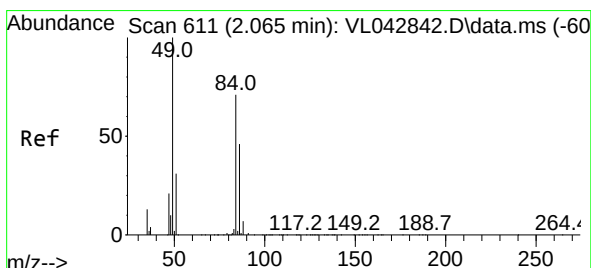
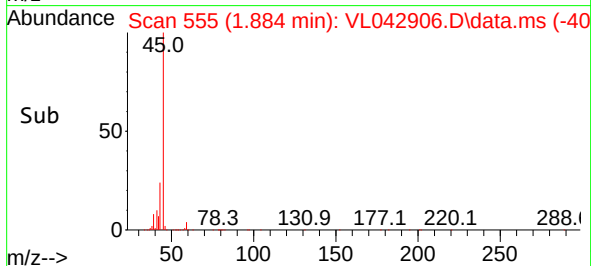
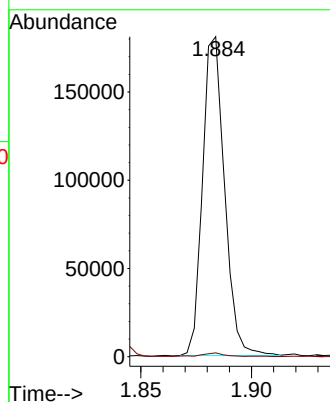
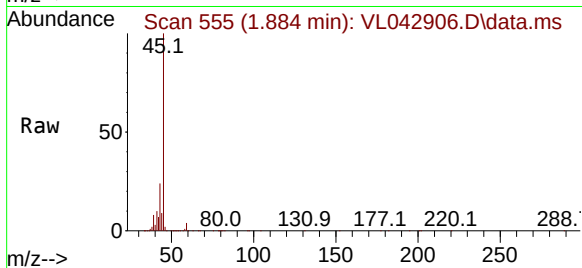
#19
Isopropyl Alcohol
Concen: 11.054 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 45 Resp: 12468
Ion Ratio Lower Upper
45 100
58 1.9 32.7 49.1

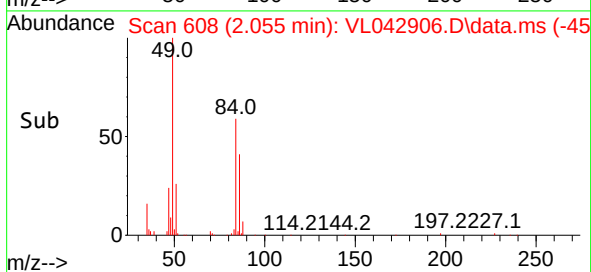
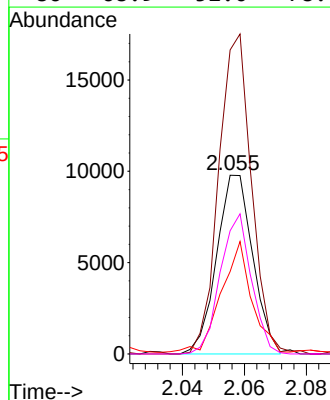
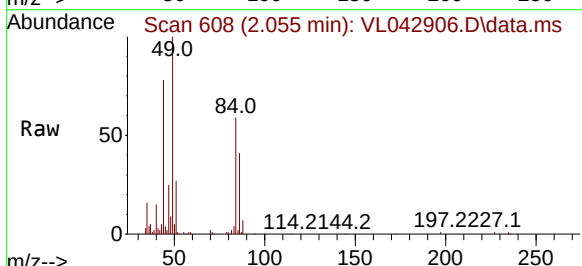
Manual Integrations
APPROVED

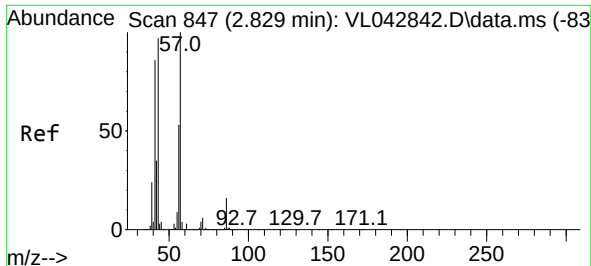
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 1.003 ppbv
RT: 2.055 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 84 Resp: 7932
Ion Ratio Lower Upper
84 100
49 168.1 112.3 168.5
51 44.9 36.0 54.0
86 68.9 52.0 78.0





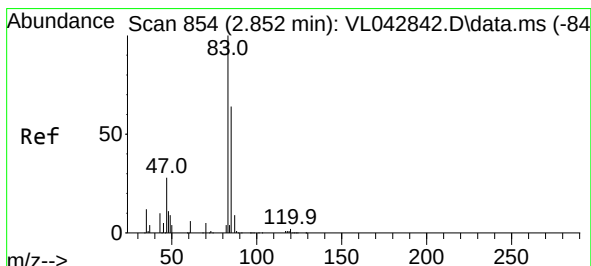
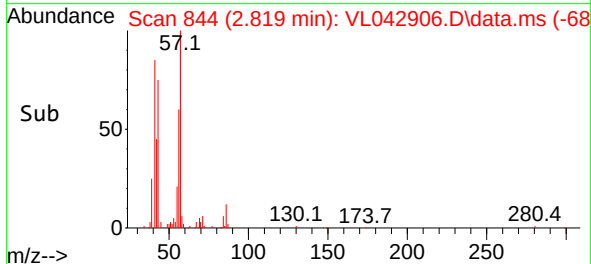
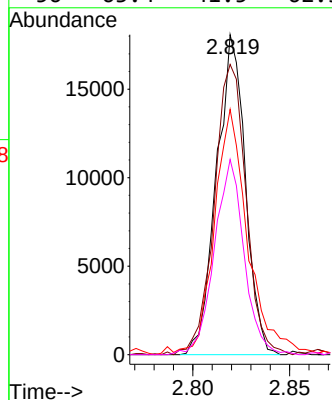
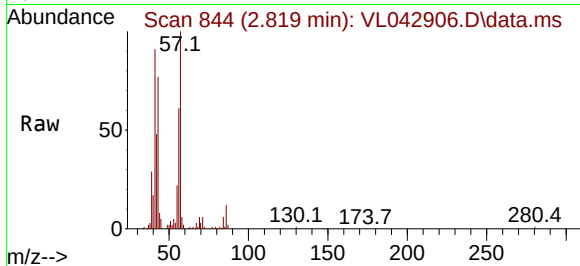
#26
Hexane
Concen: 0.888 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 57 Resp: 18740
Ion Ratio Lower Upper
57 100
41 101.0 68.6 103.0
43 86.5 168.5 252.7
56 63.4 41.5 62.3

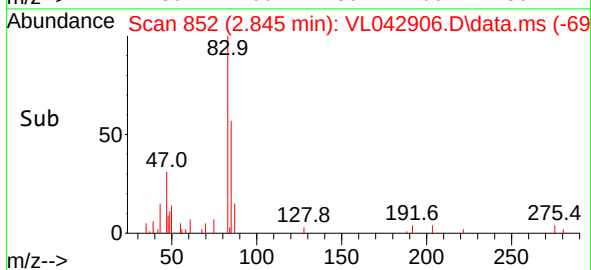
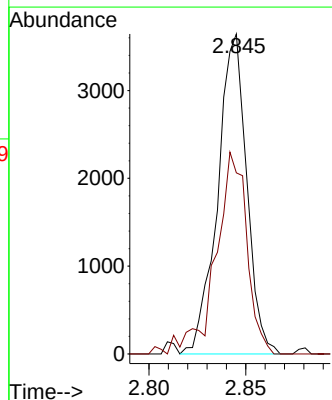
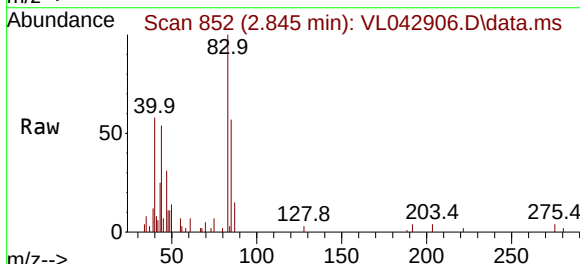
Manual Integrations
APPROVED

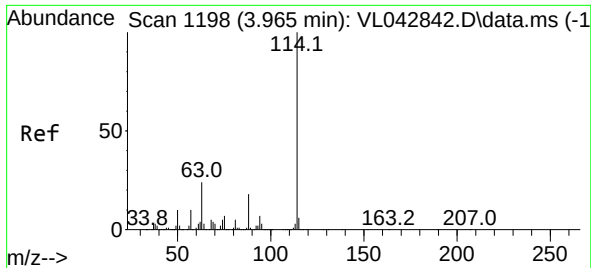
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 0.127 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 83 Resp: 3811
Ion Ratio Lower Upper
83 100
85 56.6 51.1 76.7





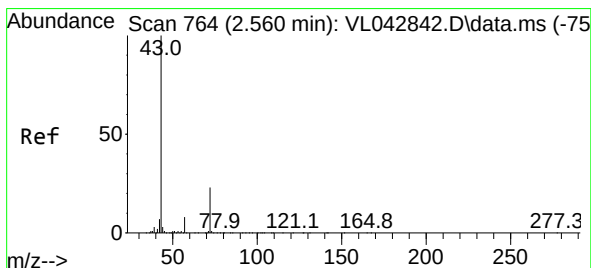
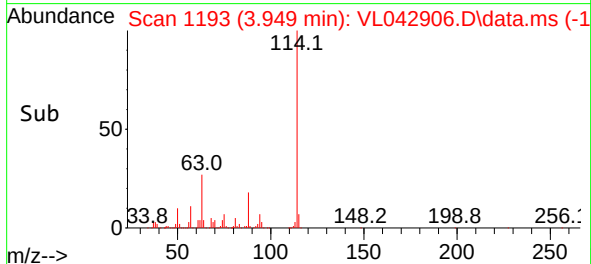
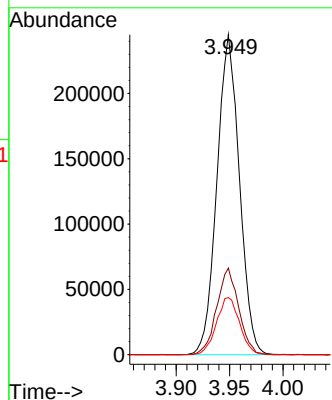
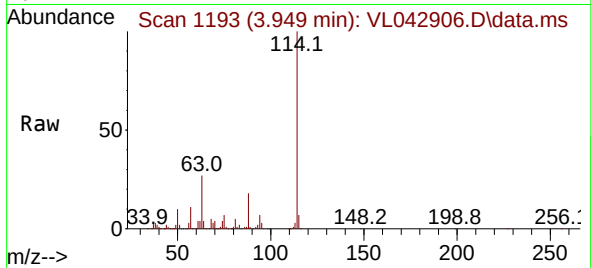
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion:114 Resp: 35822
Ion Ratio Lower Upper
114 100
63 26.5 19.7 29.5
88 18.4 14.4 21.6

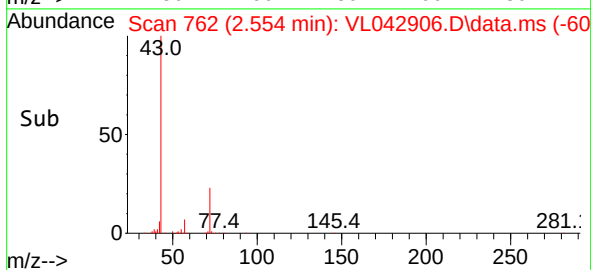
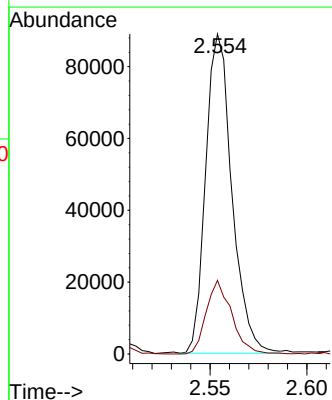
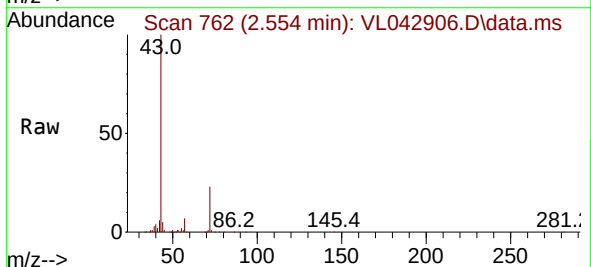
Manual Integrations
APPROVED

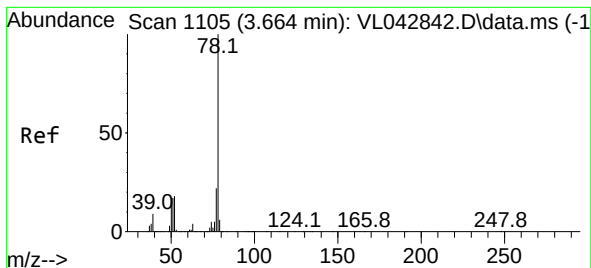
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#34
2-Butanone
Concen: 3.469 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 83905
Ion Ratio Lower Upper
43 100
72 22.6 18.6 28.0





#36

Benzene

Concen: 0.187 ppbv

RT: 3.651 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA_L

ClientSampleId :

SV-1

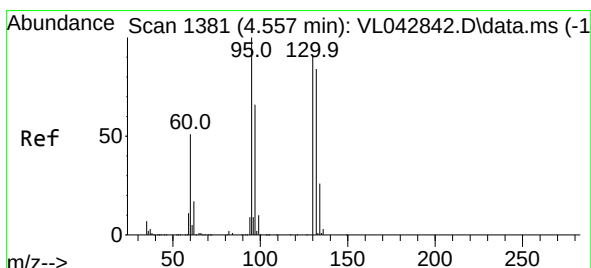
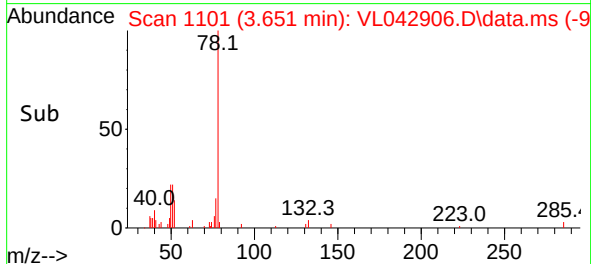
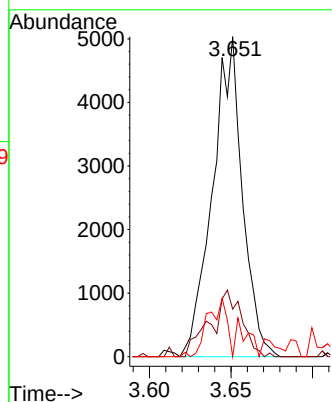
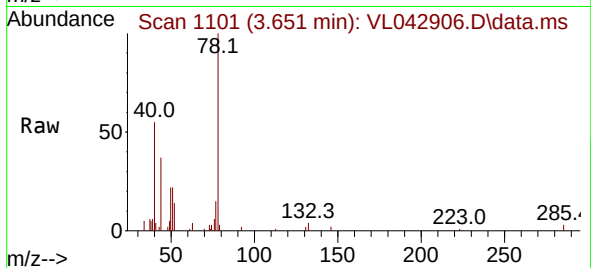
Tgt Ion: 78	Resp: 641
Ion Ratio	Lower Upper
78 100	
77 14.9	17.7 26.5
50 0.0	13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#38

Trichloroethene

Concen: 0.100 ppbv m

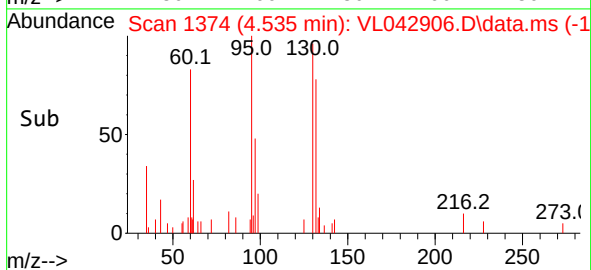
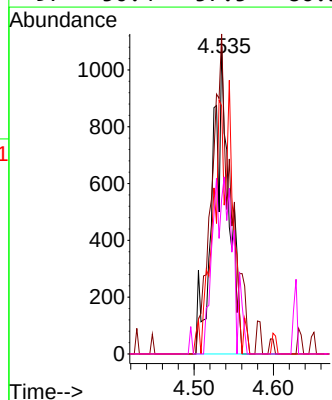
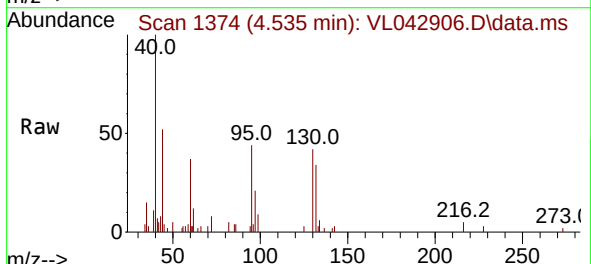
RT: 4.535 min Scan# 1374

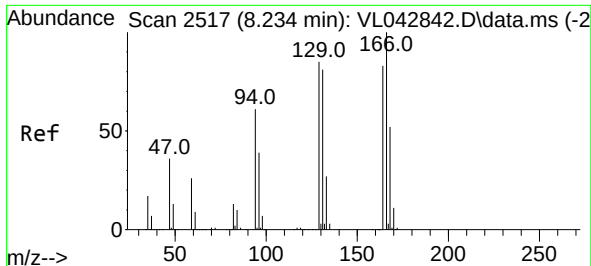
Delta R.T. 0.003 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

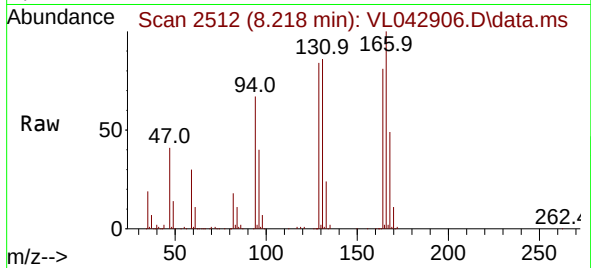
Tgt Ion:130	Resp: 1571
Ion Ratio	Lower Upper
130 100	
95 104.2	87.6 131.4
132 80.8	73.8 110.8
97 50.4	57.5 86.3





#52
Tetrachloroethene
Concen: 11.711 ppbv
RT: 8.218 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

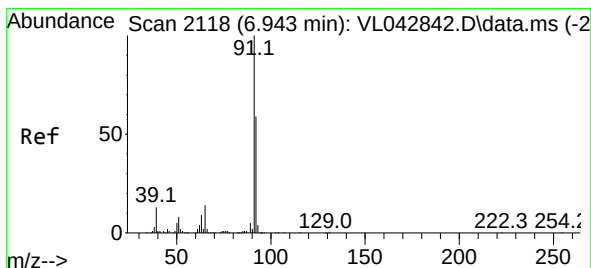
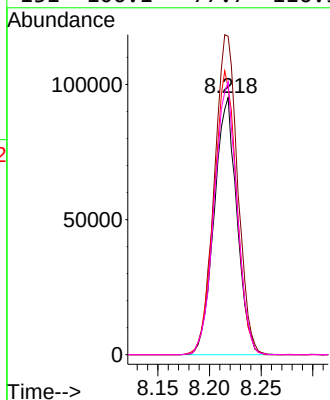
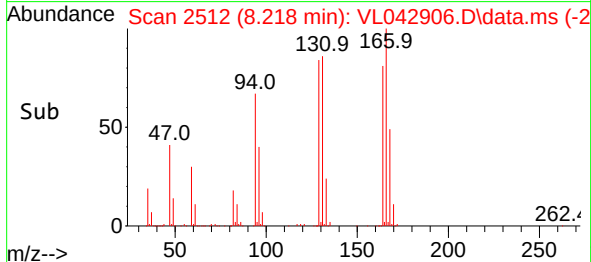
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:164 Resp: 145329
Ion Ratio Lower Upper
164 100
166 123.8 96.5 144.7
129 103.9 81.8 122.6
131 106.1 77.7 116.5

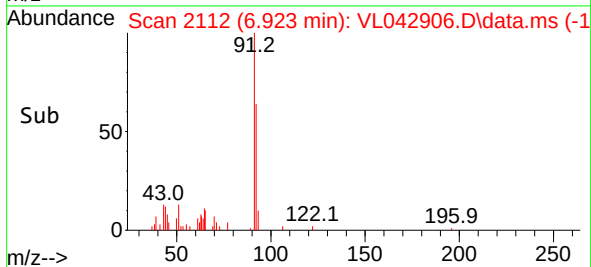
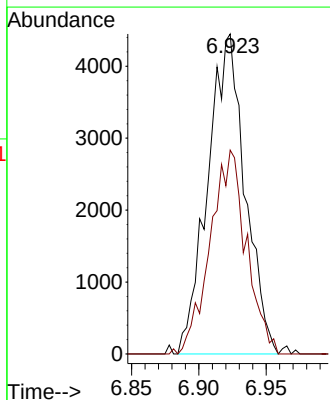
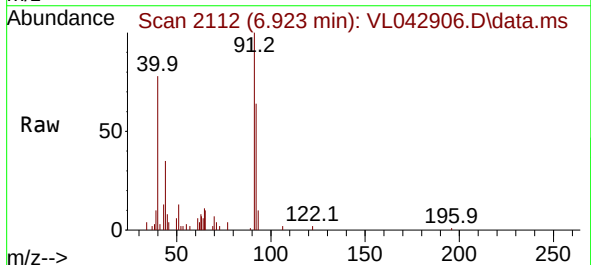
Manual Integrations
APPROVED

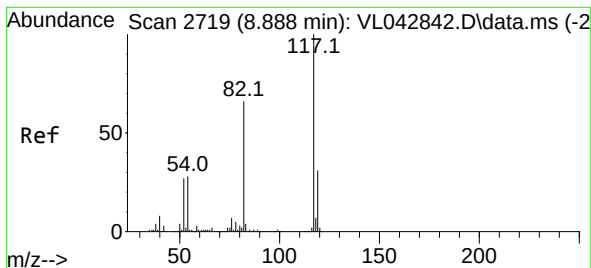
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#53
Toluene
Concen: 0.211 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.009 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 91 Resp: 8585
Ion Ratio Lower Upper
91 100
92 61.6 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.872 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA_L

ClientSampleId :

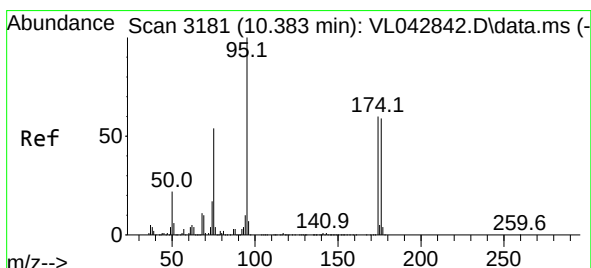
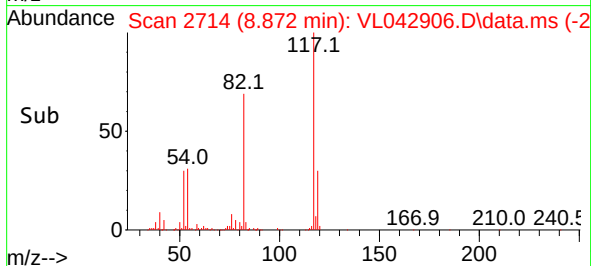
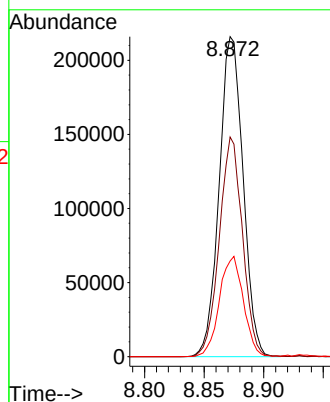
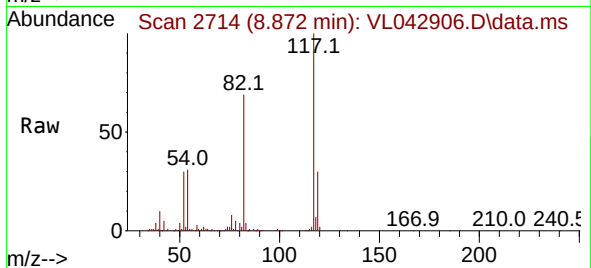
SV-1

Tgt Ion:	117	Resp:	300604
Ion Ratio	Lower	Upper	
117	100		
82	66.8	54.6	81.8
119	31.6	25.9	38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.765 ppbv

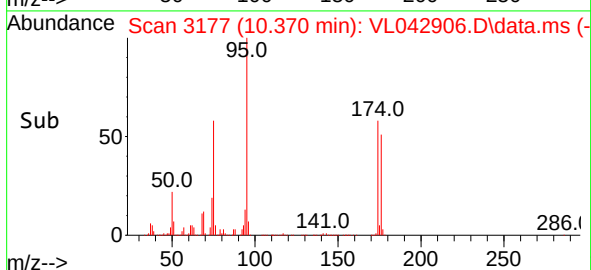
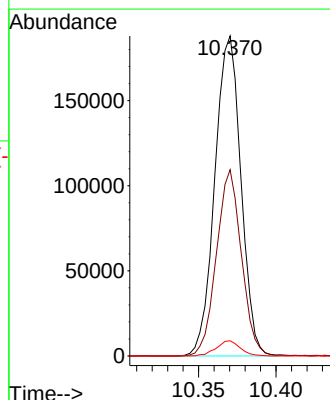
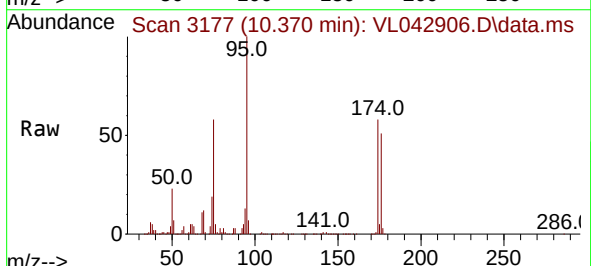
RT: 10.370 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Tgt Ion:	95	Resp:	220147
Ion Ratio	Lower	Upper	
95	100		
174	55.8	48.4	72.6
175	4.4	3.8	5.8





CALIBRATION SUMMARY

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

Method File : VL081325AIR.M

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

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.566	1.525	1.511	1.343	1.383	1.466	6.61
3) Chlorodifluoro...			1.752	1.621	1.714	1.509	1.504	1.620	7.05
4) Chloromethane			0.648	0.618	0.606	0.533	0.551	0.591	8.09
5) T Vinyl Chloride	0.728	0.639	0.593	0.559	0.550	0.502	0.507	0.582	13.72
6) T Bromomethane			0.248	0.268	0.239	0.203	0.206	0.233	12.06
7) Chloroethane			0.266	0.240	0.219	0.202	0.210	0.227	11.46
8) T Dichlorotetra...			1.273	1.235	1.245	1.122	1.122	1.199	6.02
9) T Propene			0.824	0.692	0.715	0.656	0.611	0.700	11.40
10) T Heptane			2.009	2.011	1.917	1.718	1.713	1.874	7.96
11) T Trichlorofluor...			1.614	1.533	1.467	1.271	1.345	1.446	9.59
12) T 1,1,2-Trichlor...			1.259	1.202	1.189	1.047	1.066	1.152	7.95
13) Ethanol			0.089	0.069	0.070	0.046	0.047	0.064	27.87
14) T Bromoethene			0.462	0.416	0.436	0.381	0.391	0.417	7.89
15) T Acetone			1.708	1.475	1.476	0.950	1.005	1.323	24.92
16) T 1,3-Butadiene			0.783	0.633	0.579	0.500	0.503	0.600	19.47
17) tert-Butyl alc...			1.920	1.660	1.557	1.371	1.335	1.569	15.14
18) T 1,1-Dichloroet...			0.552	0.509	0.532	0.469	0.472	0.507	7.21
19) T Isopropyl Alcohol			0.976	0.847	0.799	0.649	0.679	0.790	16.79
20) T Methylene Chlo...			0.792	0.596	0.544	0.414	0.425	0.554	27.79
21) T Allyl Chloride			1.122	0.902	0.945	0.850	0.854	0.935	11.98
22) T trans-1,2-Dich...			0.630	0.613	0.604	0.537	0.546	0.586	7.10
23) T Vinyl Acetate			2.161	1.733	1.849	1.663	1.689	1.819	11.22
24) T 1,1-Dichloroet...			1.317	1.223	1.185	1.040	1.088	1.171	9.38
25) T Ethyl Acetate			3.491	3.346	3.324	2.932	2.914	3.202	8.19
26) T Hexane			1.557	1.552	1.522	1.392	1.366	1.478	6.19
27) T Carbon Disulfide			1.504	1.513	1.511	1.314	1.348	1.438	6.84
28) T Methyl tert-Bu...			0.833	0.747	0.817	0.661	0.710	0.754	9.61
29) T Chloroform			2.299	2.183	2.166	1.932	1.970	2.110	7.32
30) T Cyclohexane			1.425	1.283	1.340	1.214	1.217	1.296	6.87
31) T cis-1,2-Dichlo...			1.625	1.524	1.524	1.346	1.362	1.476	8.06
32) T 1,1,1-Trichlor...	2.448	2.528	2.209	2.148	2.215	1.999	2.063	2.230	8.69

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.702	0.700	0.610	0.611	0.675	9.33
35) T Carbon Tetrach...	0.736	0.738	0.682	0.700	0.692	0.636	0.643	0.689	5.84
36) T Benzene			1.013	0.978	0.990	0.912	0.896	0.958	5.33
37) T 1,2-Dichloroet...			0.512	0.516	0.503	0.483	0.488	0.500	2.87
38) T Trichloroethene	0.416	0.448	0.501	0.448	0.453	0.399	0.397	0.437	8.35
39) T 1,2-Dichloropr...			0.378	0.365	0.356	0.324	0.326	0.350	6.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL081325AIR.M										
40) T	1,4-Dioxane			0.189	0.185	0.166	0.148	0.144	0.166	12.22
41) T	Tetrahydrofuran			0.395	0.389	0.392	0.355	0.351	0.376	5.64
42) T	Bromodichlorom...			0.786	0.742	0.777	0.708	0.714	0.745	4.77
43) T	Methyl Methacr...			0.427	0.402	0.415	0.368	0.362	0.394	7.31
44) T	2,2,4-Trimethy...			1.728	1.719	1.676	1.515	1.489	1.625	7.06
45) T	t-1,3-Dichloro...			0.450	0.464	0.456	0.428	0.427	0.445	3.73
46) T	cis-1,3-Dichlo...			0.568	0.559	0.578	0.539	0.529	0.555	3.67
47) T	1,1,2-Trichlor...			0.395	0.382	0.386	0.341	0.348	0.371	6.52
48) T	Dibromochlorom...			0.596	0.605	0.632	0.584	0.581	0.600	3.44
49) T	Bromoform			0.466	0.514	0.535	0.491	0.467	0.495	6.07
50) T	4-Methyl-2-Pen...			0.960	0.917	0.946	0.881	0.859	0.913	4.67
51) T	2-Hexanone			0.723	0.737	0.750	0.699	0.683	0.718	3.82
52) T	Tetrachloroethene	0.391	0.379	0.369	0.333	0.345	0.313	0.295	0.346	10.19
53) T	Toluene			1.219	1.180	1.160	1.072	1.061	1.138	6.09
54) T	1,2-Dibromoethane		0.599	0.549	0.532	0.552	0.506	0.512	0.542	6.24
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.534	0.549	0.551	0.476	0.476	0.517	7.39
57) T	Chlorobenzene			1.026	0.990	0.994	0.878	0.866	0.951	7.68
58) T	Ethyl Benzene			1.854	1.866	1.838	1.636	1.630	1.765	6.84
59) T	m/p-Xylene			1.447	1.454	1.455	1.283	1.277	1.383	6.81
60) T	o-Xylene			1.532	1.472	1.445	1.266	1.242	1.391	9.31
61) T	Styrene			0.711	0.677	0.660	0.610	0.601	0.652	7.09
62) T	Isopropylbenzene			2.149	2.194	2.133	1.852	1.838	2.033	8.53
63) T	1,1,2,2-Tetrac...	0.881	0.774	0.795	0.784	0.772	0.674	0.677	0.765	9.39
64) T	n-propylbenzene			0.570	0.528	0.549	0.475	0.472	0.519	8.47
65) T	tert-Butylbenzene			1.907	1.991	1.910	1.605	1.549	1.793	11.19
66) T	Benzyl Chloride			0.232	0.226	0.246	0.227	0.207	0.228	6.21
67) T	sec-Butylbenzene			2.669	2.754	2.706	2.250	2.202	2.516	10.62
68) S	1-Bromo-4-Fluo...	0.736	0.746	0.755	0.760	0.744	0.755	0.754	0.750	1.09
69) T	p-Isopropyltol...			2.338	2.372	2.328	1.905	1.856	2.160	11.85
70) T	n-Butylbenzene			2.234	2.303	2.333	1.927	1.915	2.142	9.58
71) T	2-Chlorotoluene			1.709	1.719	1.641	1.418	1.408	1.579	9.77
72) T	4-Ethyltoluene			1.738	1.806	1.784	1.563	1.543	1.687	7.39
73) T	1,3,5-Trimethy...			1.548	1.535	1.512	1.293	1.283	1.434	9.37
74) T	1,2,4-Trimethy...			1.710	1.706	1.698	1.394	1.365	1.574	11.33
75) T	1,3-Dichlorobe...			0.937	0.946	0.967	0.831	0.795	0.895	8.59
76) T	1,4-Dichlorobe...			0.966	0.946	0.978	0.833	0.803	0.905	8.93
77) T	1,2-Dichlorobe...			0.937	0.956	0.947	0.781	0.761	0.876	11.03
78) T	Hexachloro-1,3...			0.814	0.845	0.804	0.572	0.556	0.718	19.74
79) T	Naphthalene		1.174	1.383	1.647	1.746	1.315	1.300	1.427	15.50
80) T	Naphthalene,2-...			0.430	0.554	0.708	0.478	0.497	0.533	20.15
81) T	1,2,4-Trichlor...			0.623	0.797	0.855	0.661	0.650	0.717	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

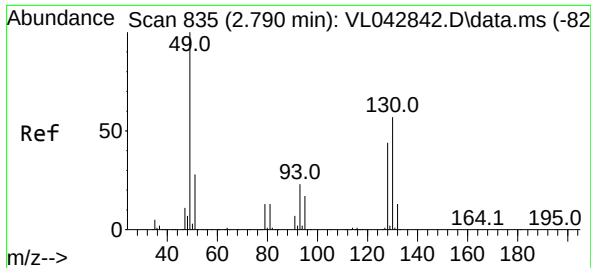
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

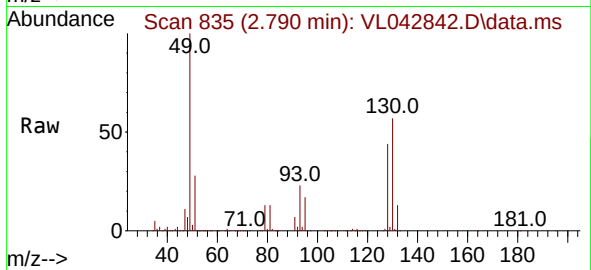
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	950548m	18.524	ppbv	
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

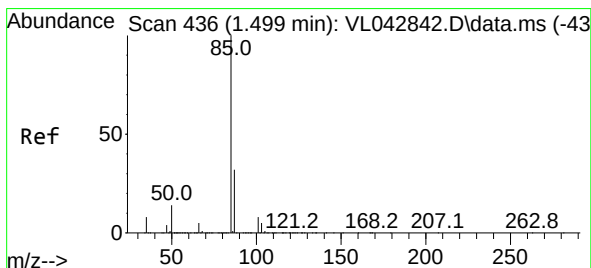
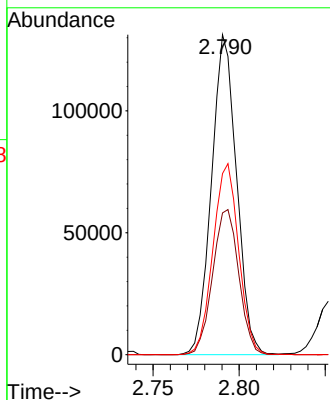
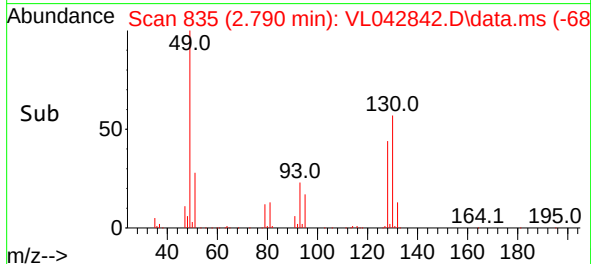
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 49 Resp: 133104
Ion Ratio Lower Upper
49 100
128 47.4 23.7 71.1
130 61.1 30.6 91.6

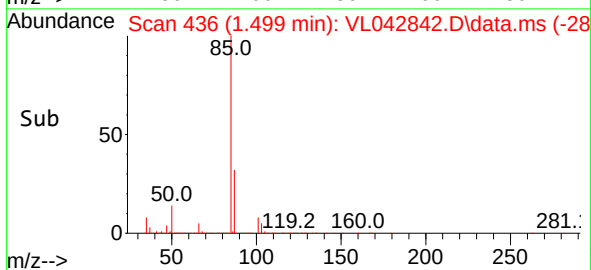
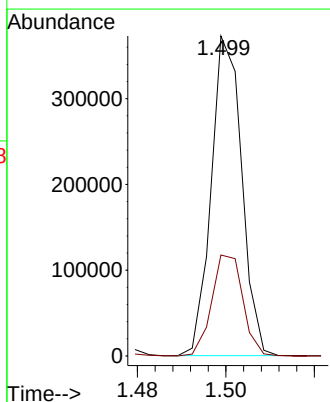
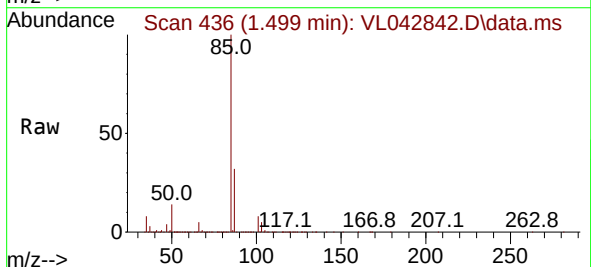
Manual Integrations
APPROVED

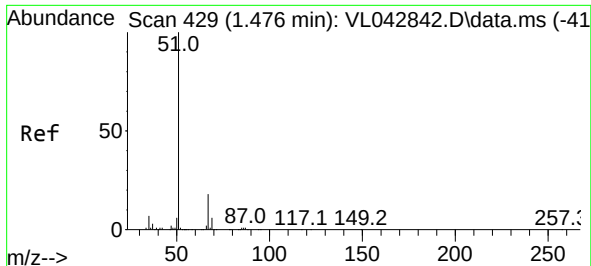
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 9.166 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

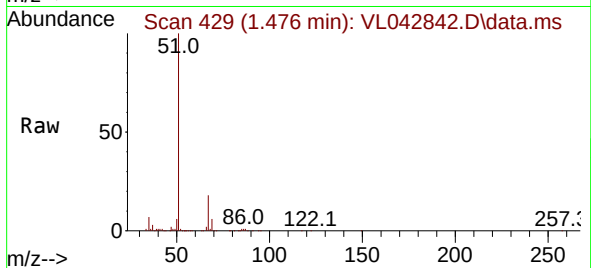
Tgt Ion: 85 Resp: 178799
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 9.306 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

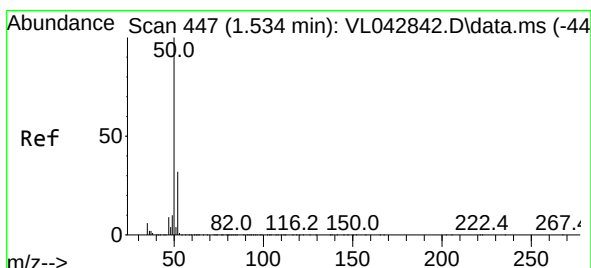
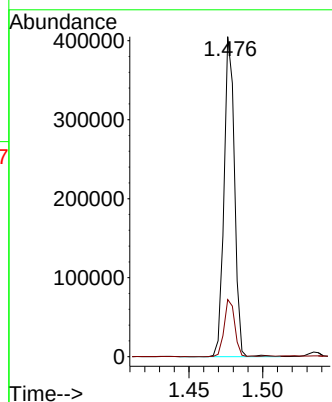
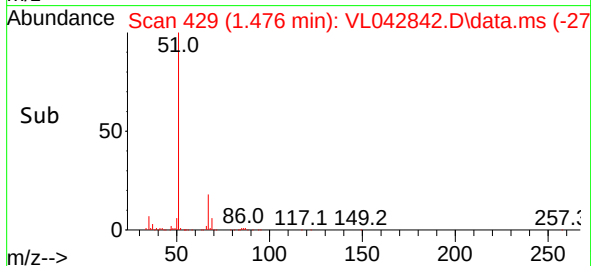
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



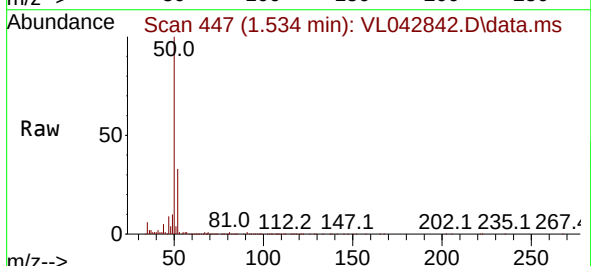
Tgt Ion: 51 Resp: 200860
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3

Manual Integrations
APPROVED

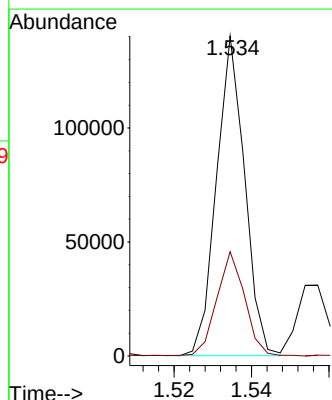
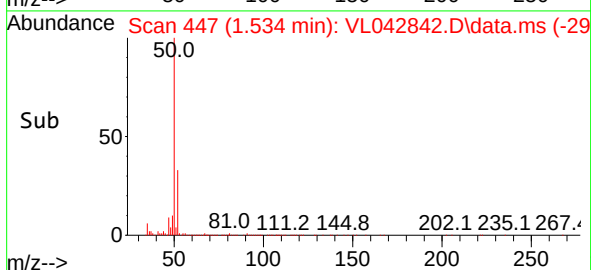
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

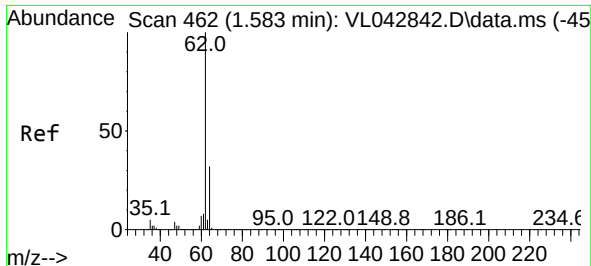


#4
Chloromethane
Concen: 9.013 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



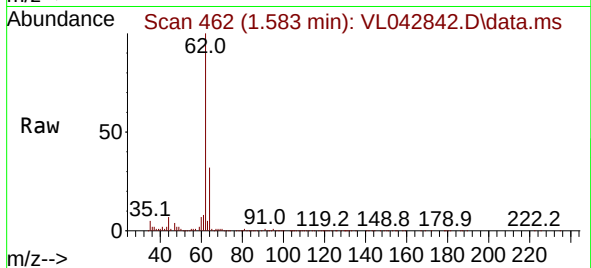
Tgt Ion: 50 Resp: 70952
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.612 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

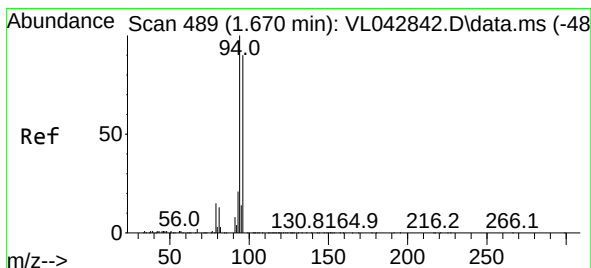
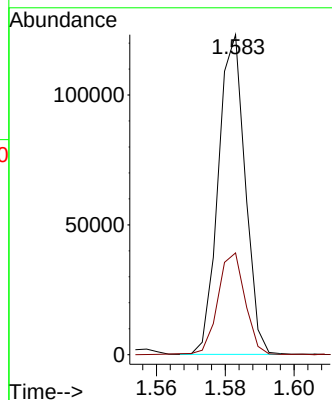
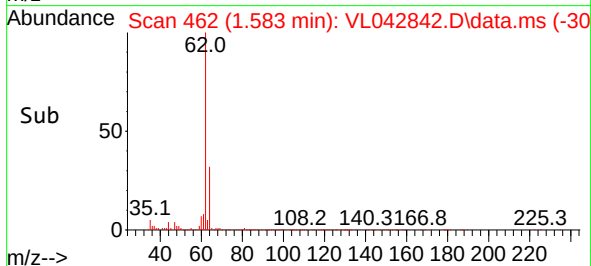
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



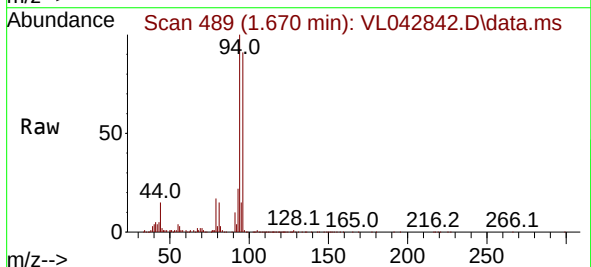
Tgt Ion: 62 Resp: 66768
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

Manual Integrations
 APPROVED

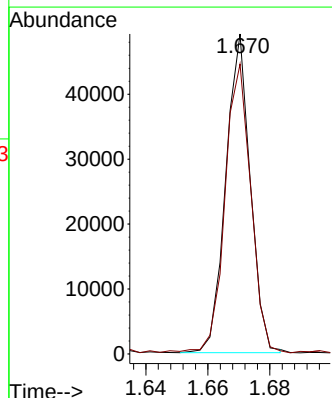
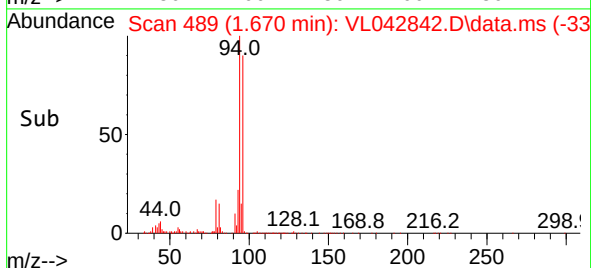
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

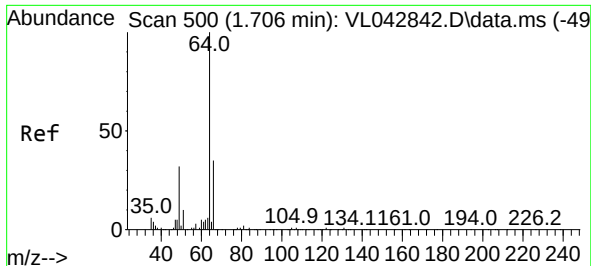


#6
 Bromomethane
 Concen: 8.698 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



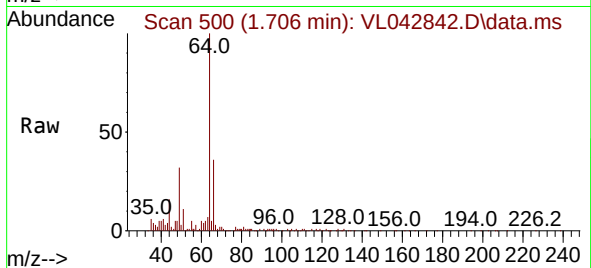
Tgt Ion: 94 Resp: 26964
 Ion Ratio Lower Upper
 94 100
 96 90.1 72.1 108.1





#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

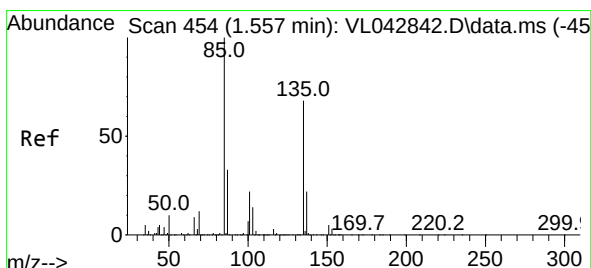
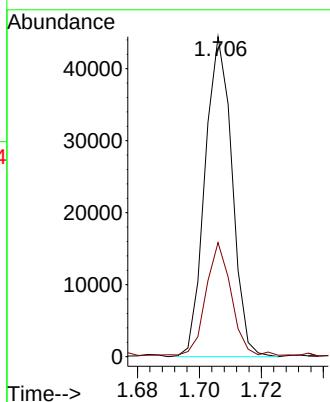
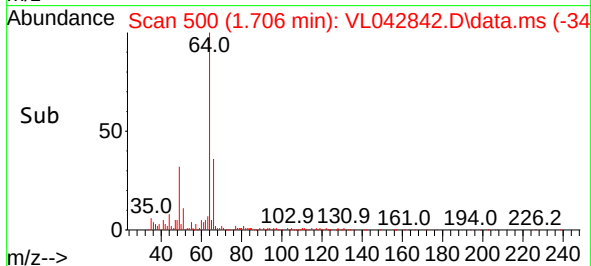
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



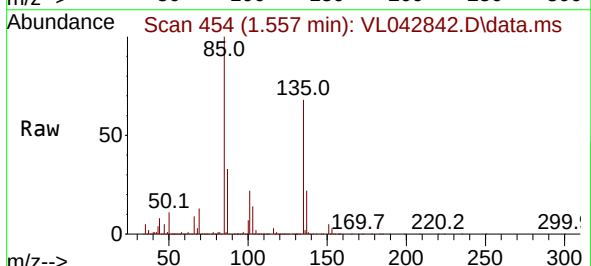
Tgt Ion: 64 Resp: 26884
Ion Ratio Lower Upper
64 100
66 35.7 28.6 42.8

Manual Integrations
APPROVED

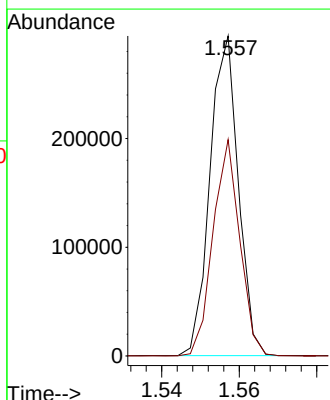
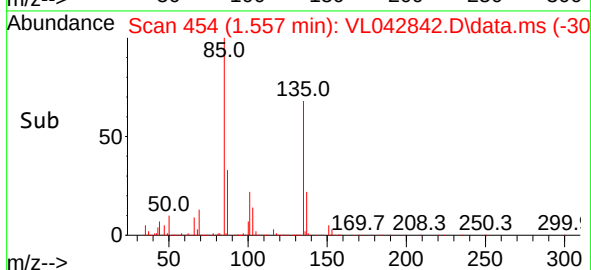
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

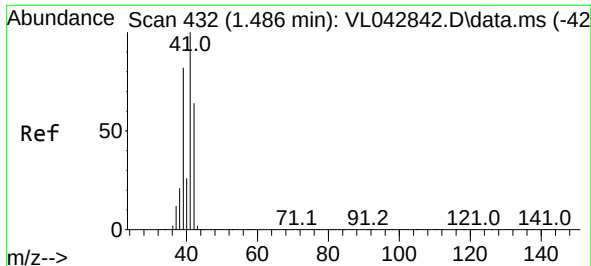


#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



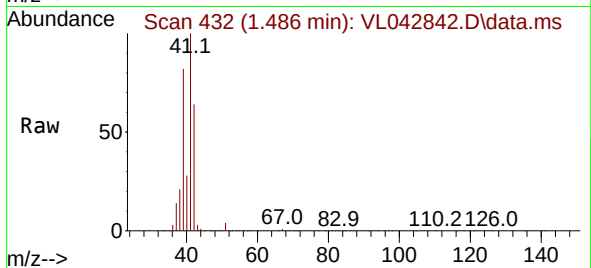
Tgt Ion: 85 Resp: 149341
Ion Ratio Lower Upper
85 100
135 64.0 51.2 76.8





#9
 Propene
 Concen: 9.380 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

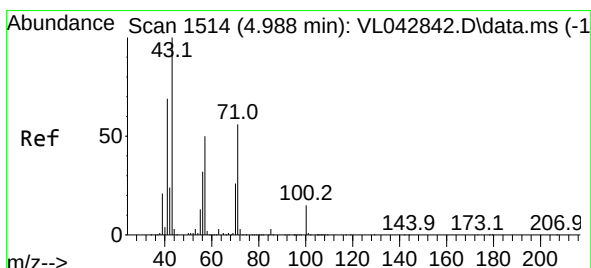
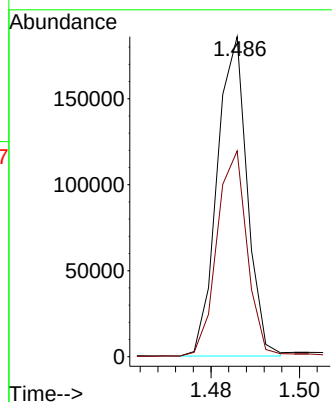
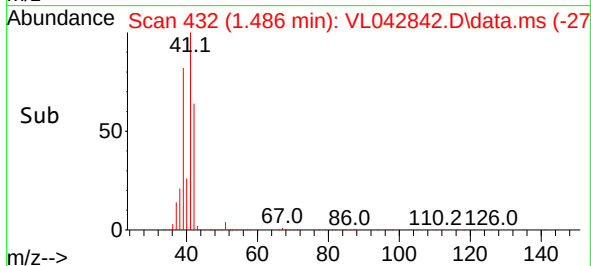
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



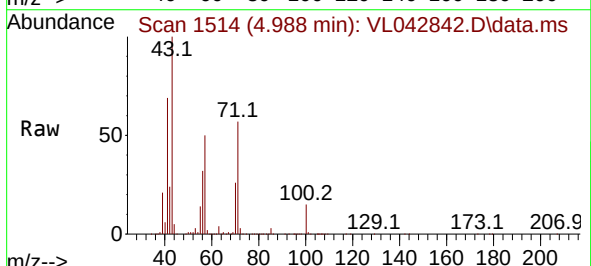
Tgt Ion: 41 Resp: 87352
 Ion Ratio Lower Upper
 41 100
 42 66.2 53.0 79.4

Manual Integrations
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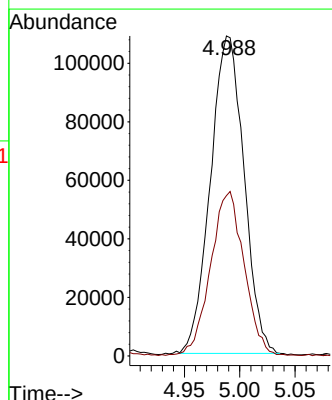
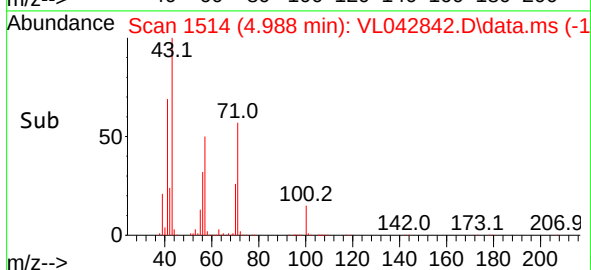
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

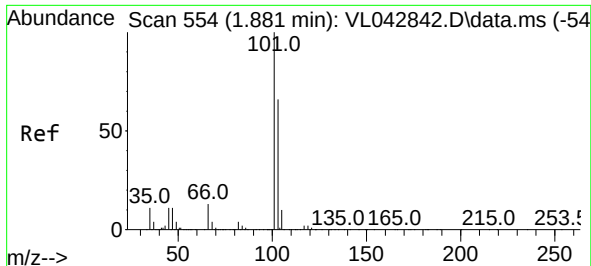


#10
 Heptane
 Concen: 9.186 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



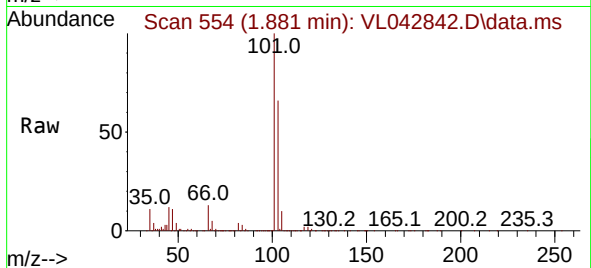
Tgt Ion: 43 Resp: 228679
 Ion Ratio Lower Upper
 43 100
 57 51.7 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 8.789 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

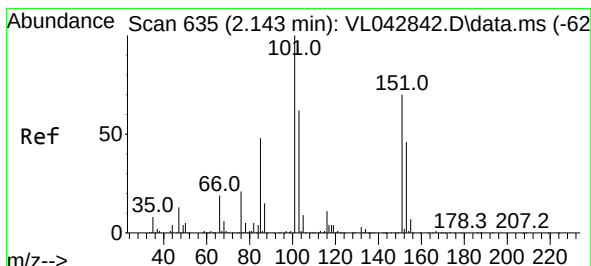
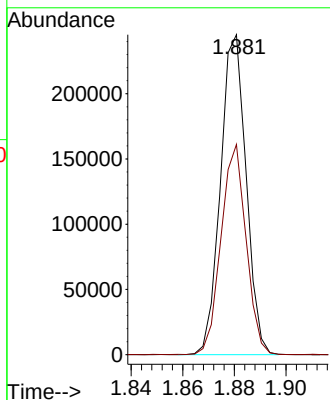
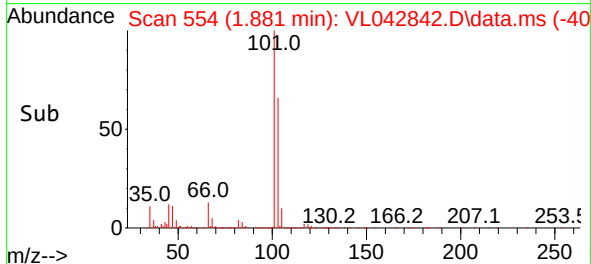
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



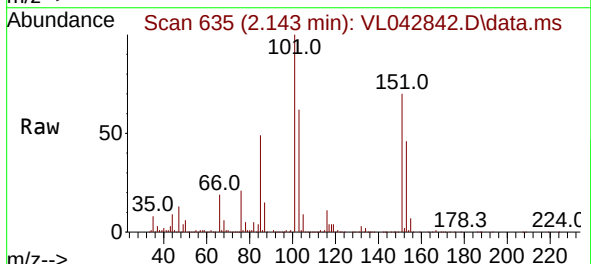
Tgt Ion:101 Resp: 16915
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.5 78.7

Manual Integrations
 APPROVED

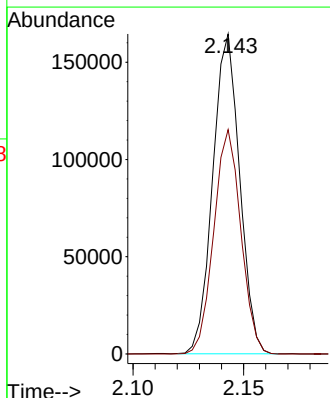
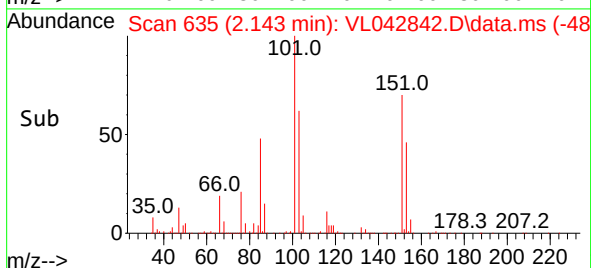
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

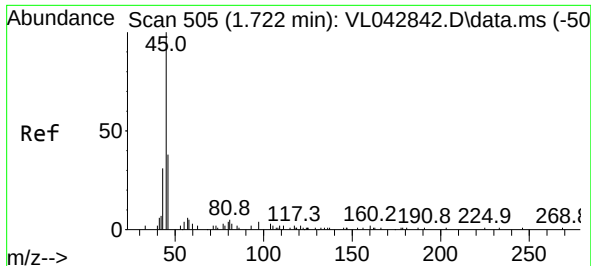


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.083 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



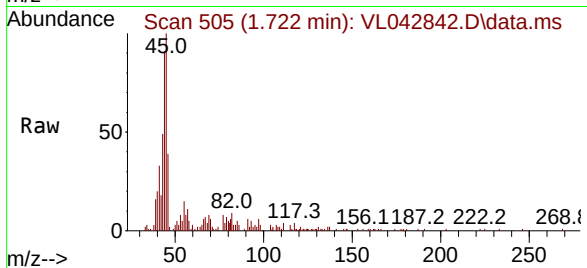
Tgt Ion:101 Resp: 139340
 Ion Ratio Lower Upper
 101 100
 151 70.5 56.4 84.6





#13
Ethanol
Concen: 6.690 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

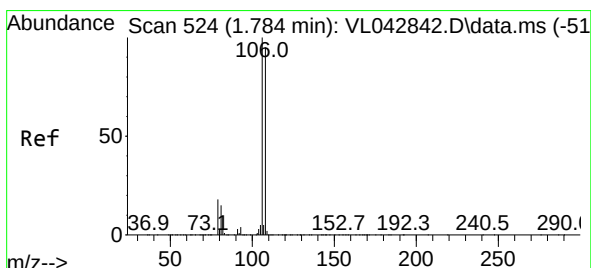
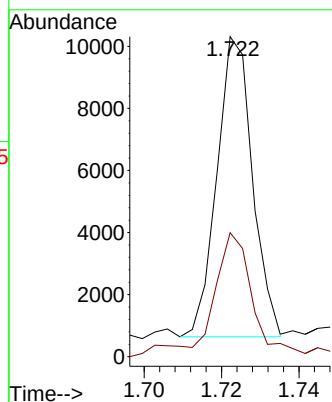
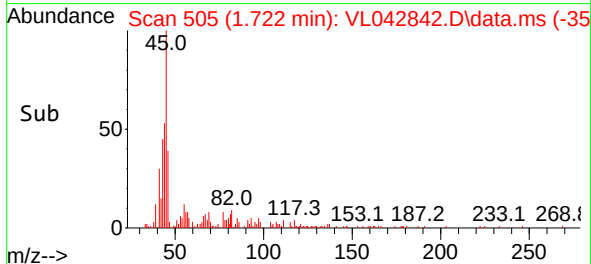
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



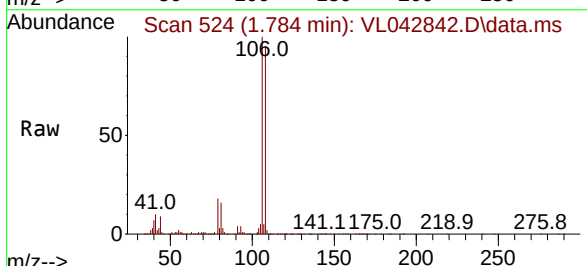
Tgt Ion: 45 Resp: 6172
Ion Ratio Lower Upper
45 100
46 43.7 17.5 69.9

Manual Integrations
APPROVED

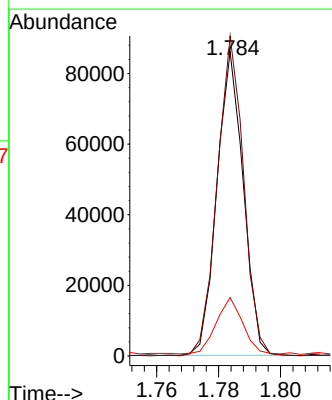
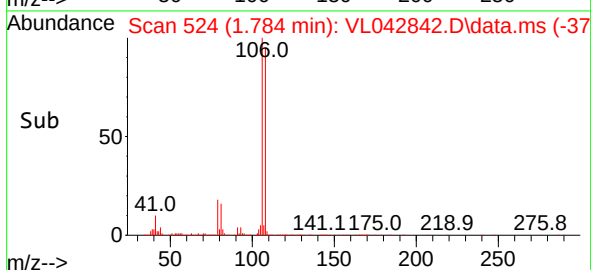
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

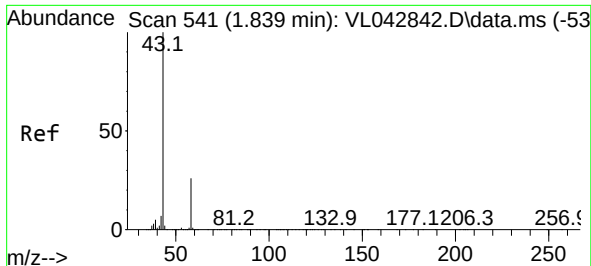


#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



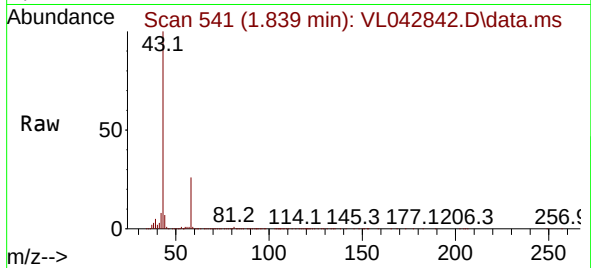
Tgt Ion:108 Resp: 50730
Ion Ratio Lower Upper
108 100
106 106.4 85.1 127.7
79 20.4 16.3 24.5





#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

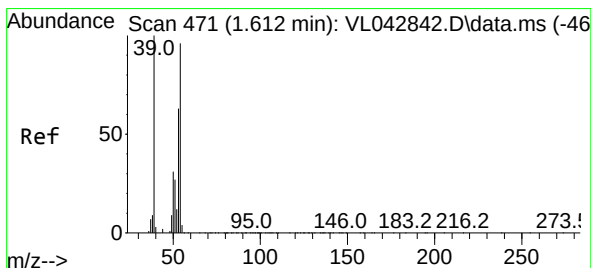
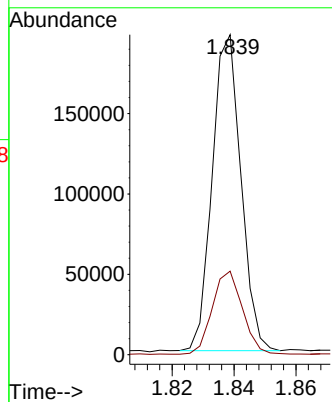
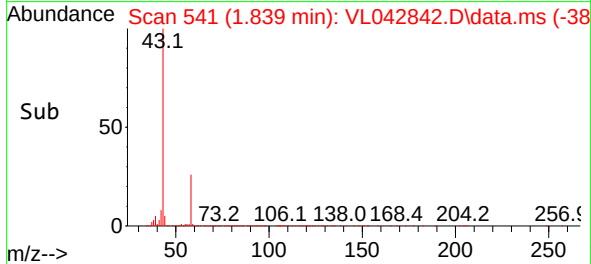
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



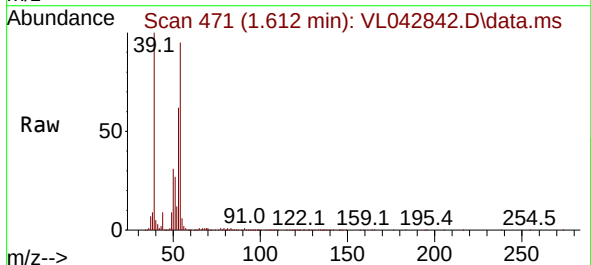
Tgt Ion: 43 Resp: 126419
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

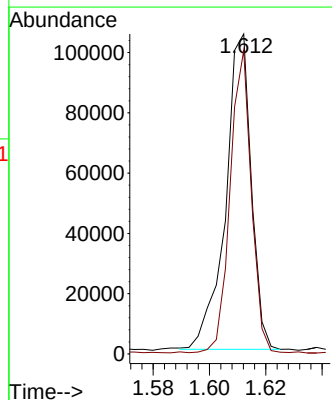
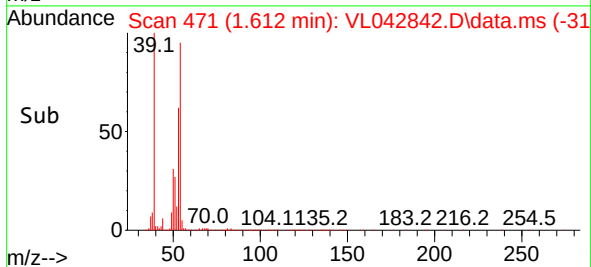
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

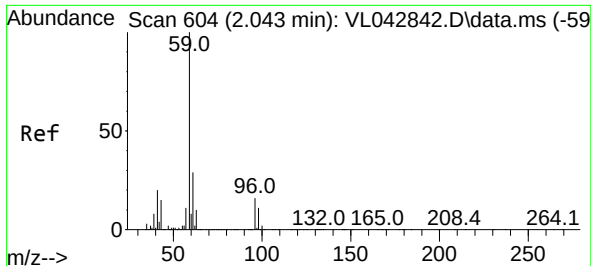


#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



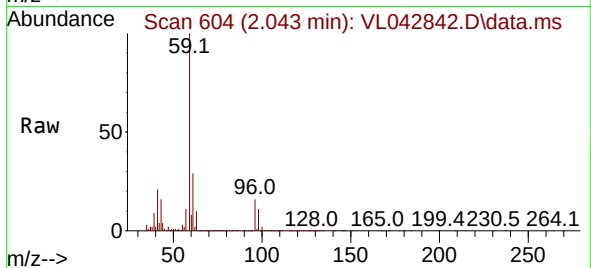
Tgt Ion: 39 Resp: 66595
Ion Ratio Lower Upper
39 100
54 79.5 63.6 95.4





#17
tert-Butyl alcohol
Concen: 8.741 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

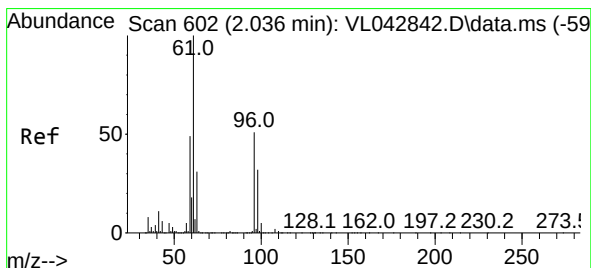
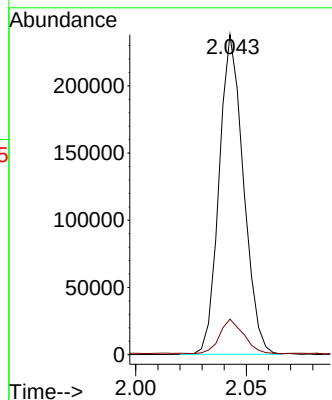
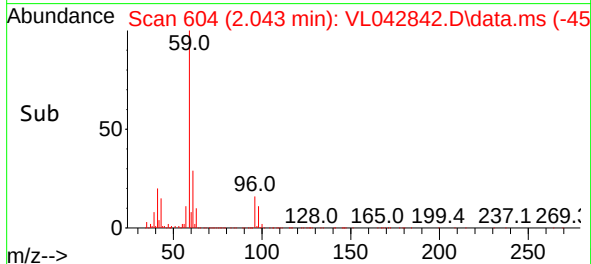
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



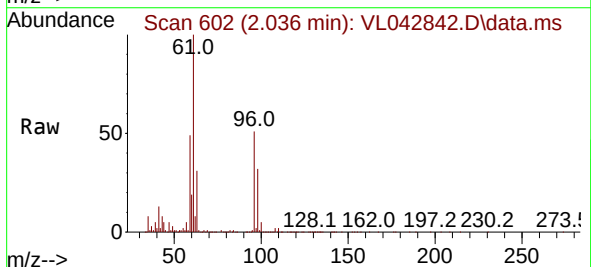
Tgt Ion: 59 Resp: 18251
Ion Ratio Lower Upper
59 100
57 11.2 9.0 13.4

Manual Integrations
APPROVED

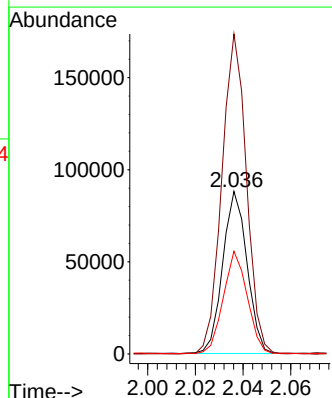
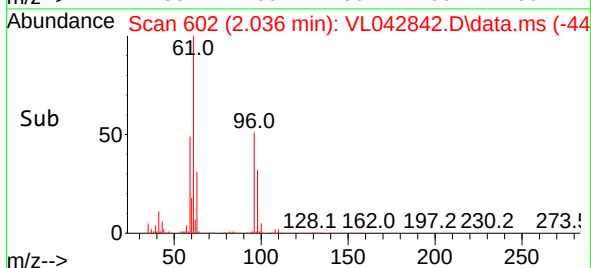
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

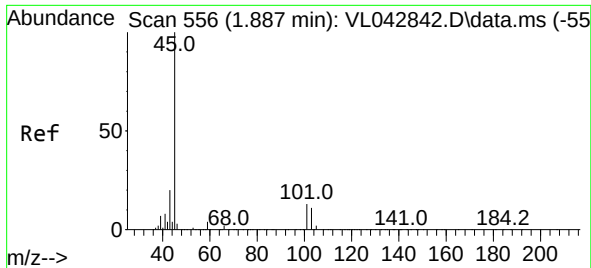


#18
1,1-Dichloroethene
Concen: 9.252 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion: 96 Resp: 62397
Ion Ratio Lower Upper
96 100
61 197.8 158.2 237.4
98 63.3 50.6 76.0





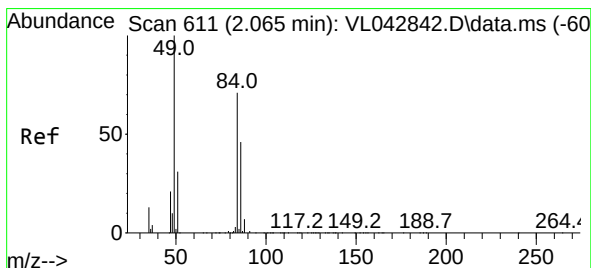
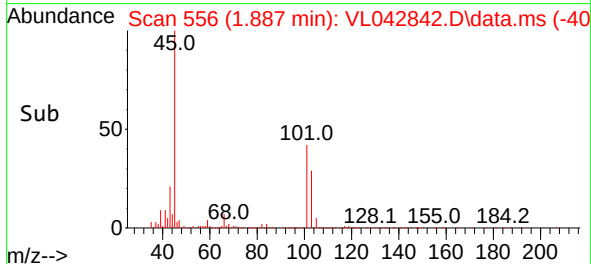
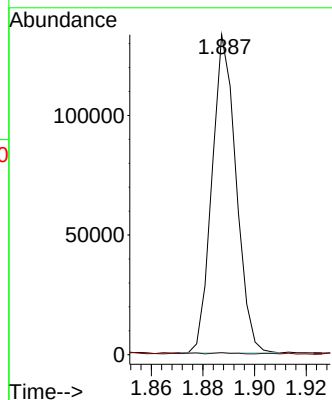
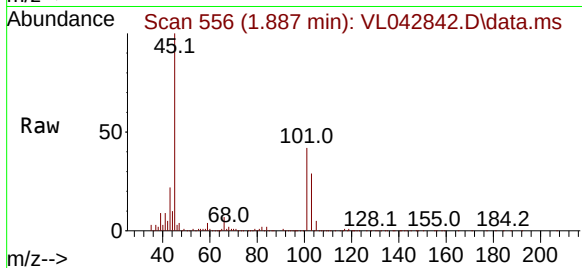
#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 8636
Ion Ratio Lower Upper
45 100
58 40.9 32.7 49.1

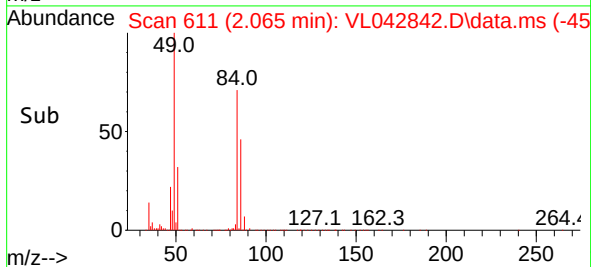
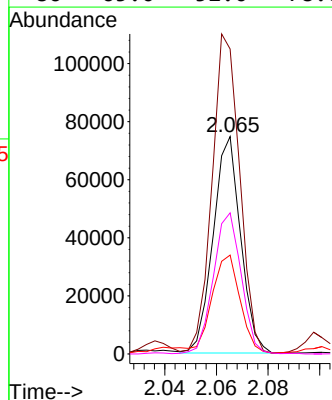
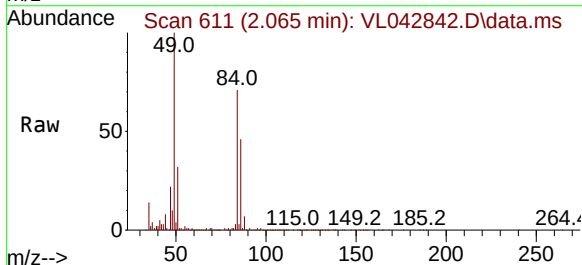
Manual Integrations
APPROVED

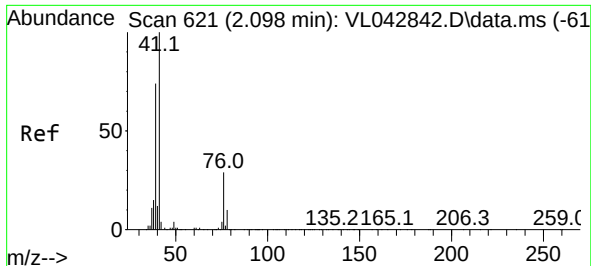
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 7.471 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

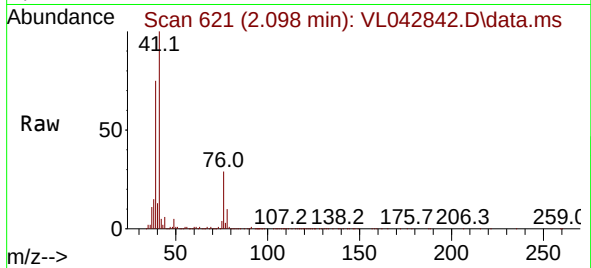
Tgt Ion: 84 Resp: 55107
Ion Ratio Lower Upper
84 100
49 140.4 112.3 168.5
51 45.0 36.0 54.0
86 65.0 52.0 78.0





#21
 Allyl Chloride
 Concen: 9.093 ppbv
 RT: 2.098 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

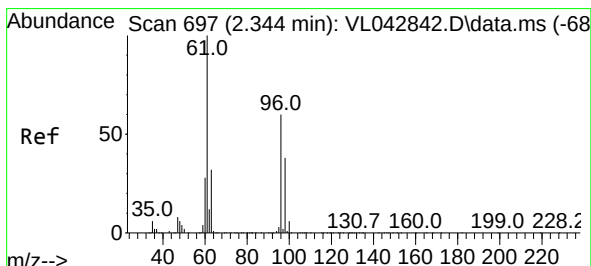
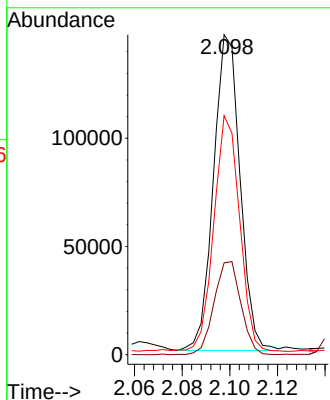
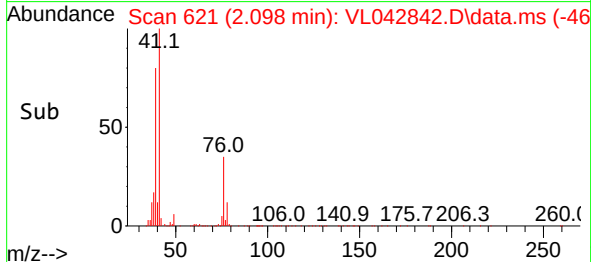
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



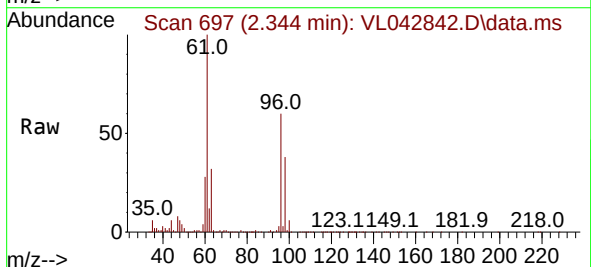
Tgt Ion: 41 Resp: 11310
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.9 35.9
 39 72.2 57.8 86.6

Manual Integrations
 APPROVED

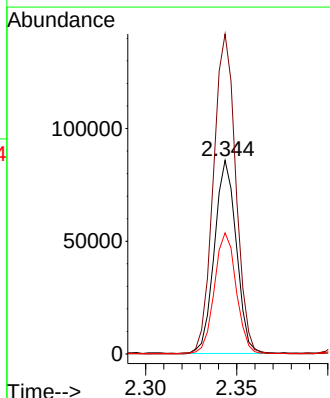
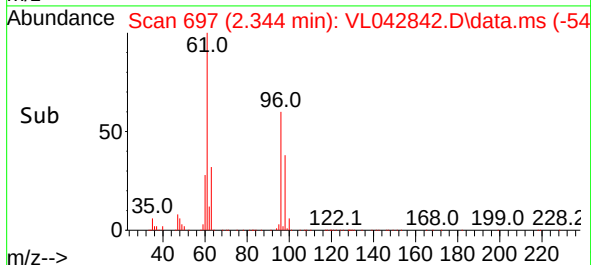
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

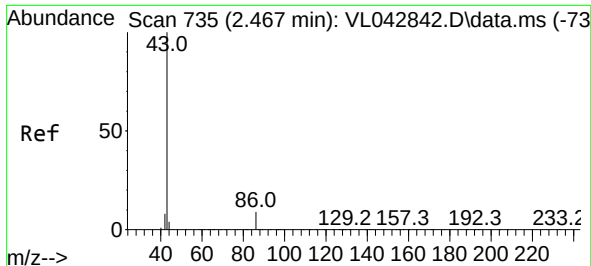


#22
 trans-1,2-Dichloroethene
 Concen: 9.482 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



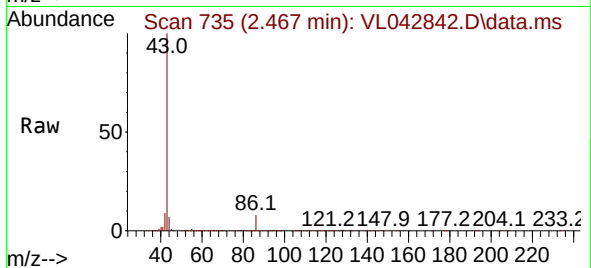
Tgt Ion: 96 Resp: 71518
 Ion Ratio Lower Upper
 96 100
 61 165.8 132.6 199.0
 98 62.5 50.0 75.0





#23
 Vinyl Acetate
 Concen: 9.558 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

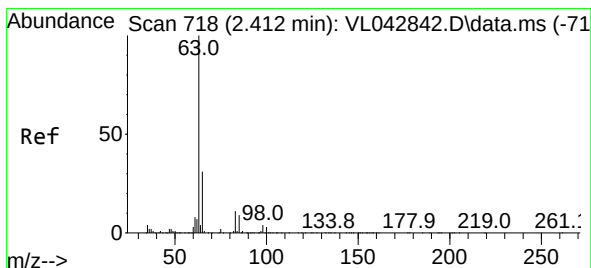
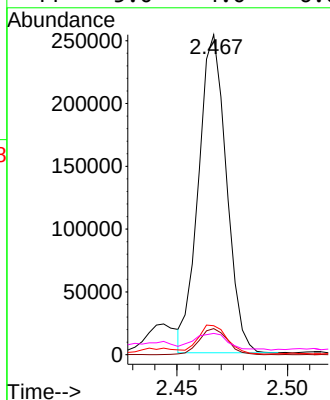
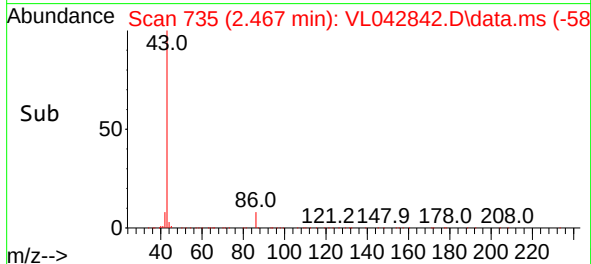
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



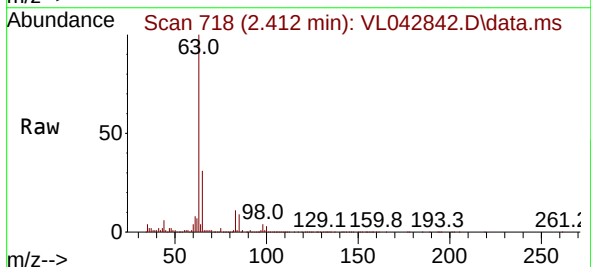
Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.8	7.0	10.6
44	5.0	4.0	6.0

Manual Integrations
 APPROVED

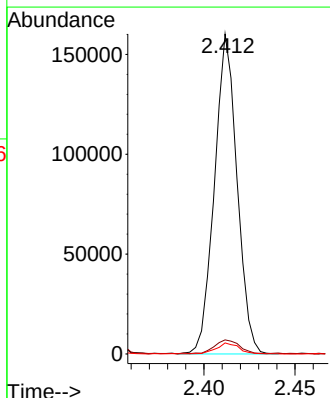
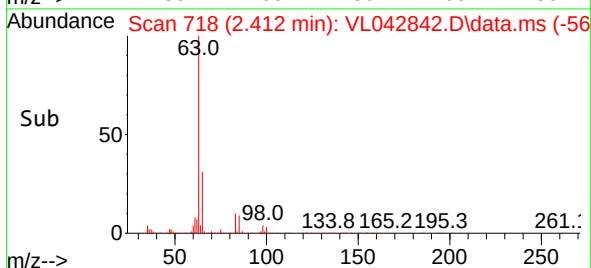
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

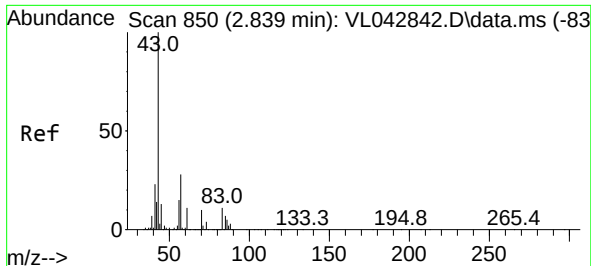


#24
 1,1-Dichloroethane
 Concen: 8.885 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



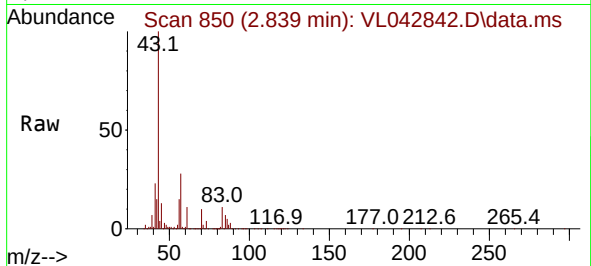
Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	3.4	1.7	5.1





#25
Ethyl Acetate
Concen: 9.159 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

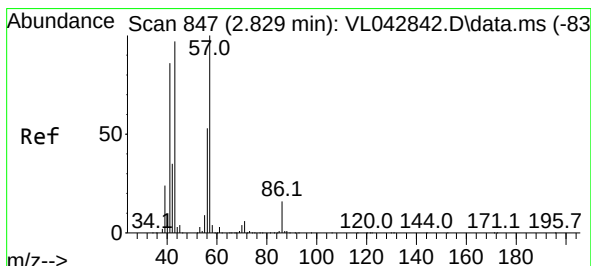
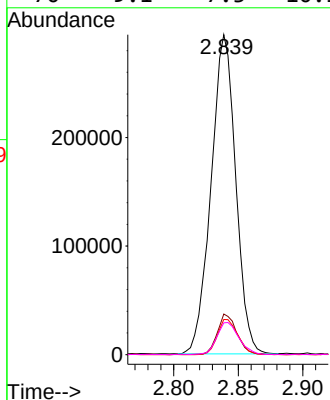
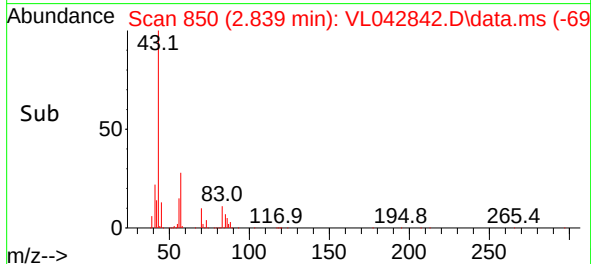
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:	43	Resp:	39029
Ion Ratio	100	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.3	7.4	11.2
70	9.1	7.3	10.9

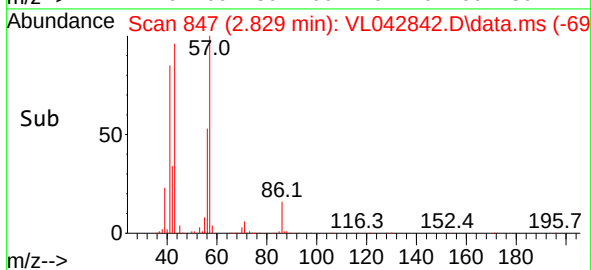
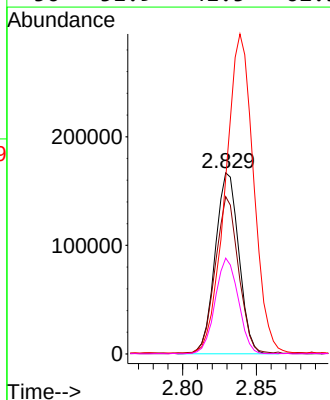
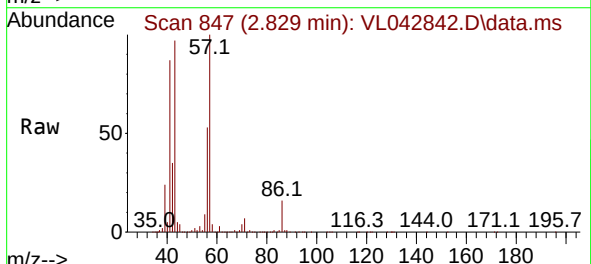
Manual Integrations
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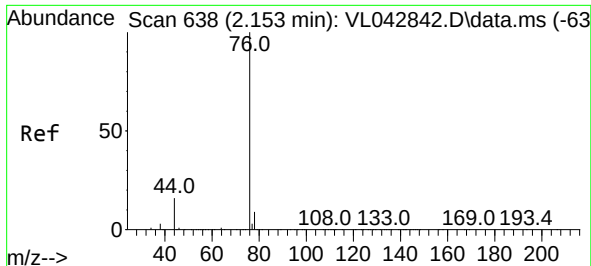
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 9.420 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:	57	Resp:	185288
Ion Ratio	100	Lower	Upper
57	100		
41	85.8	68.6	103.0
43	210.6	168.5	252.7
56	51.9	41.5	62.3





#27

Carbon Disulfide

Concen: 9.138 ppbv

RT: 2.153 min Scan# 638

Delta R.T. 0.000 min

Lab File: VL042842.D

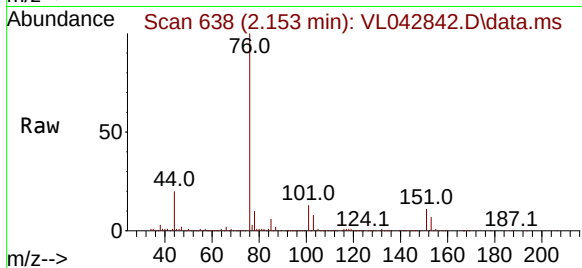
Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



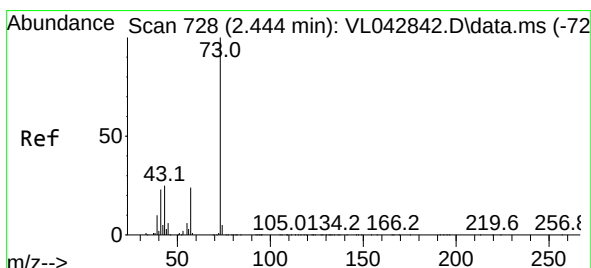
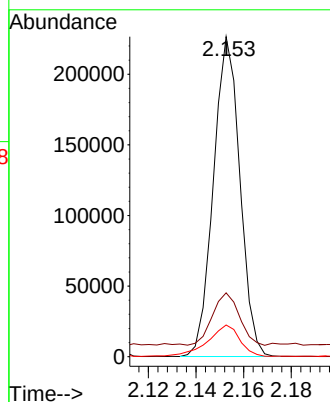
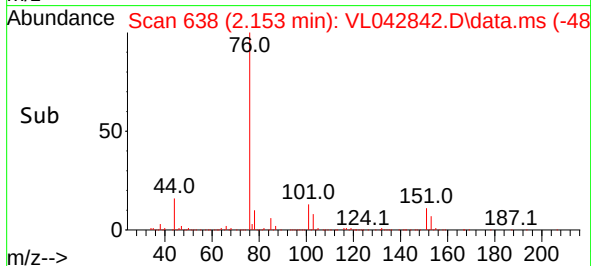
Tgt Ion:	76	Resp:	174928
Ion Ratio	100	Lower	15.9
Upper	23.9	Lower	9.5
Upper	14.3	Lower	

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#28

Methyl tert-Butyl Ether

Concen: 8.767 ppbv

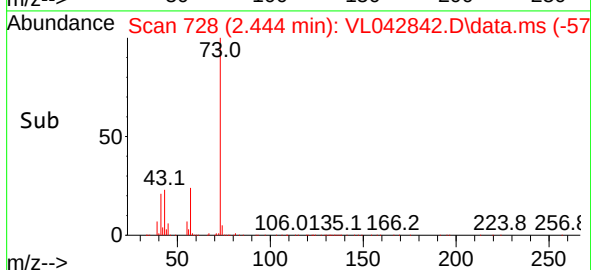
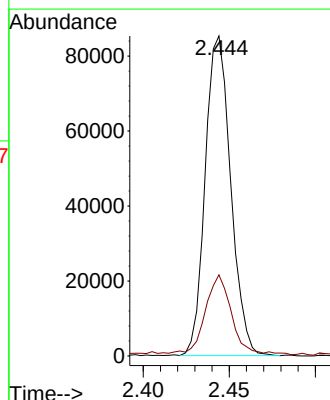
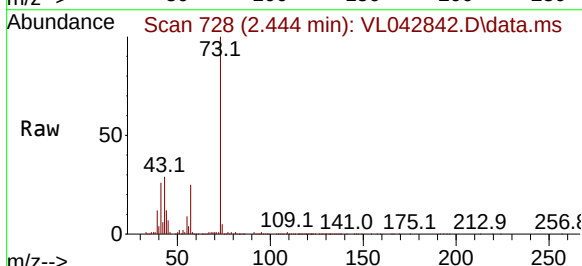
RT: 2.444 min Scan# 728

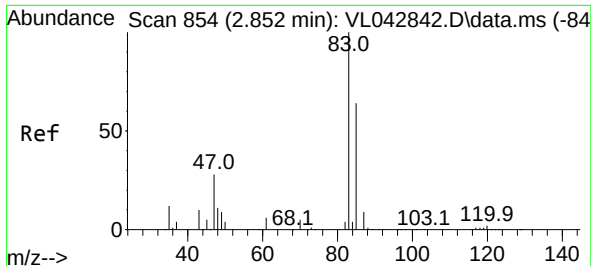
Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

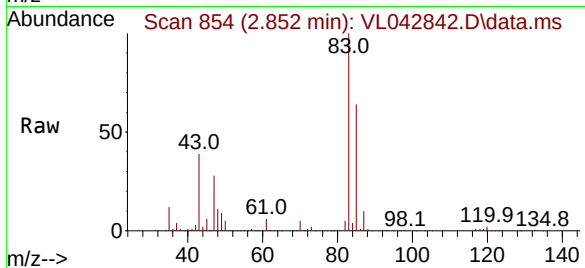
Tgt Ion:	73	Resp:	87929
Ion Ratio	100	Lower	21.6
Upper	32.4	Lower	





#29
Chloroform
Concen: 9.158 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

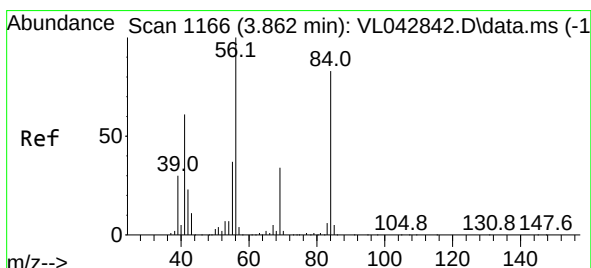
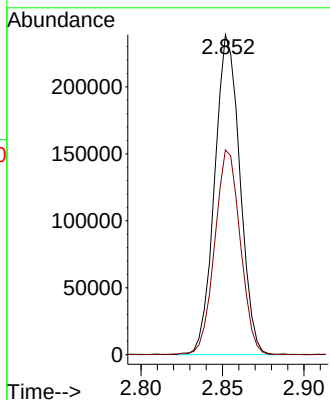
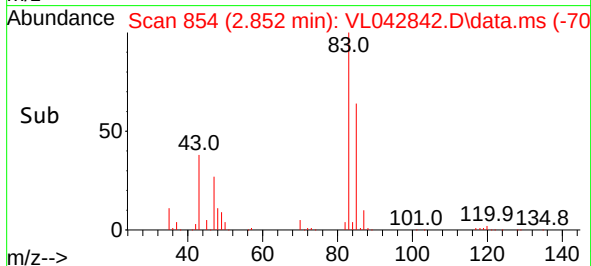
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 257170
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7

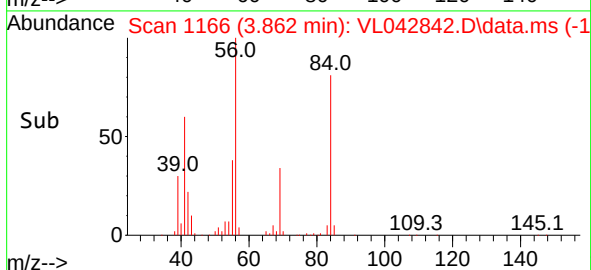
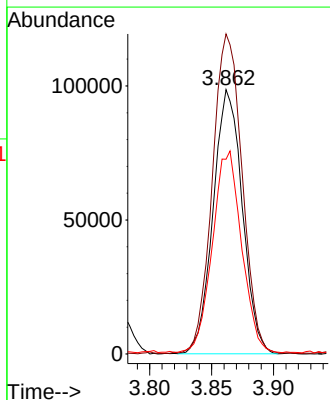
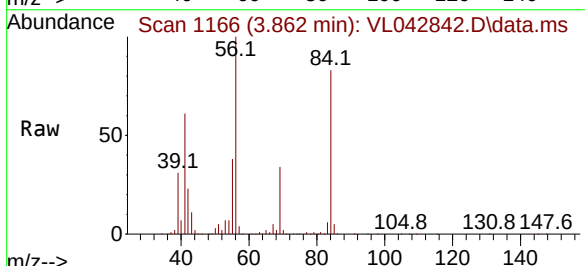
Manual Integrations
APPROVED

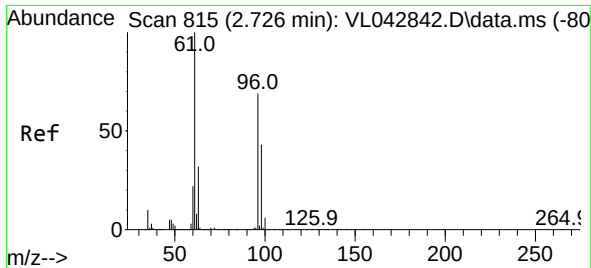
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 9.367 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

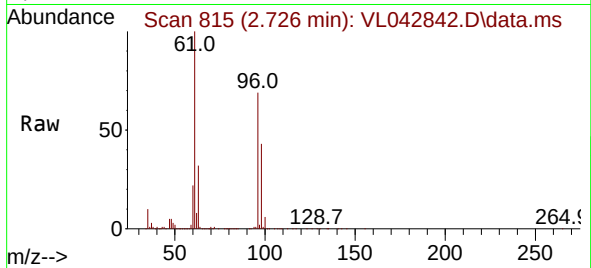
Tgt Ion: 84 Resp: 161540
Ion Ratio Lower Upper
84 100
56 123.5 98.8 148.2
41 76.6 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 9.107 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

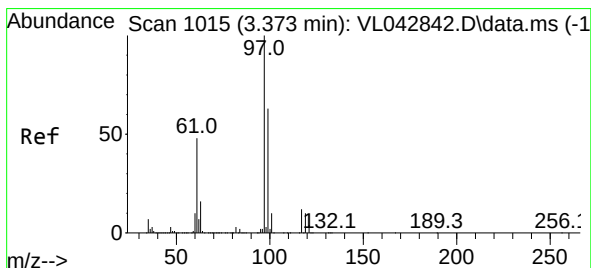
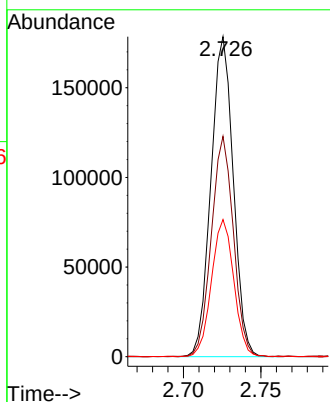
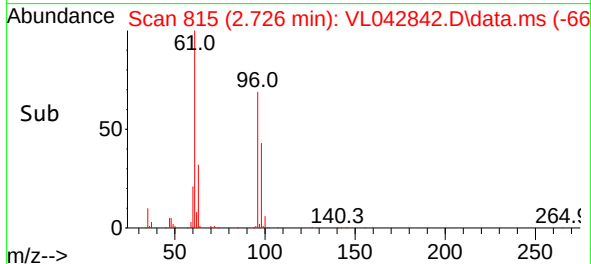
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



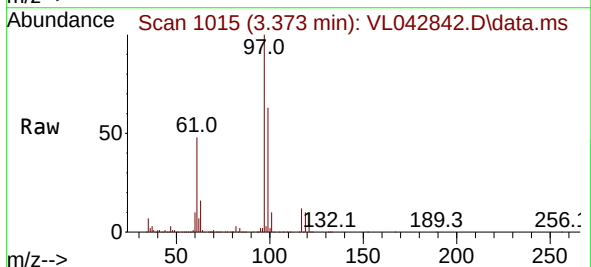
Tgt Ion: 61 Resp: 179162
 Ion Ratio Lower Upper
 61 100
 96 68.8 55.0 82.6
 98 42.9 34.3 51.5

Manual Integrations
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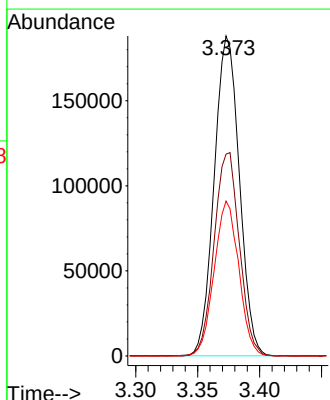
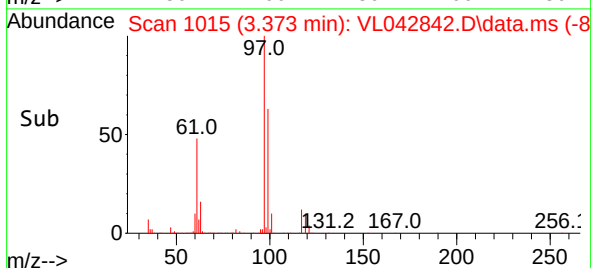
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

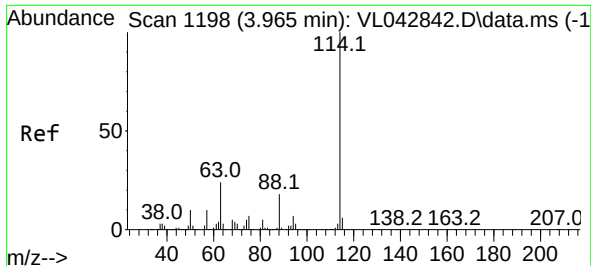


#32
 1,1,1-Trichloroethane
 Concen: 8.946 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



Tgt Ion: 97 Resp: 266021
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 47.5 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:114 Resp: 41363

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

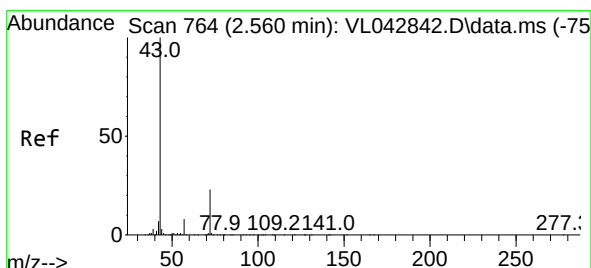
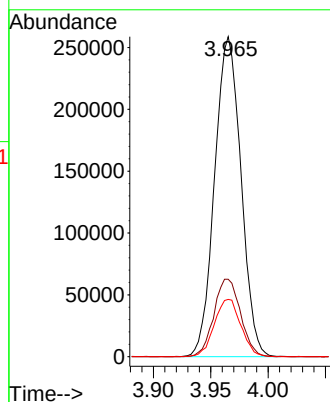
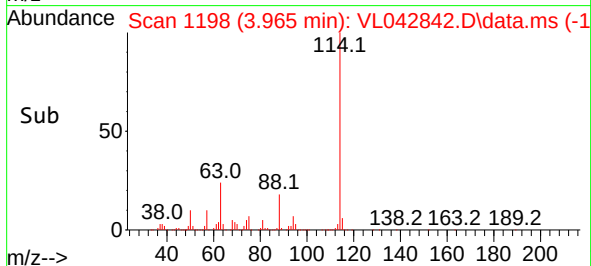
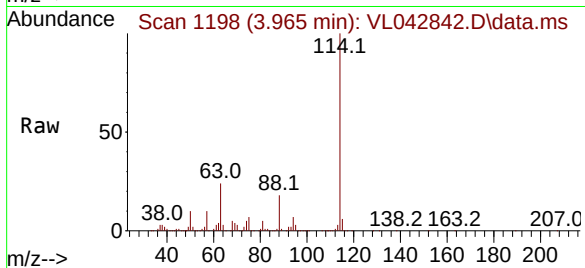
88 18.0 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 9.033 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042842.D

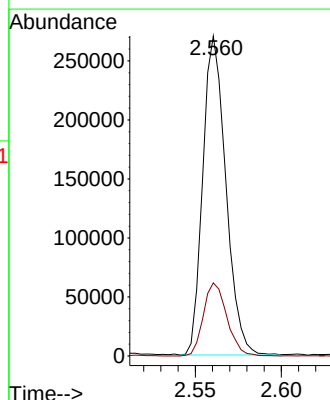
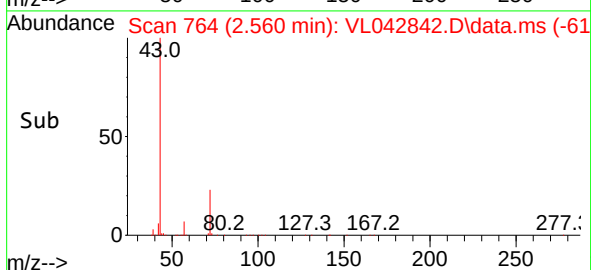
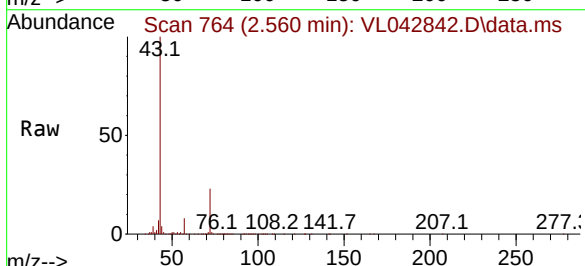
Acq: 13 Aug 2025 08:30

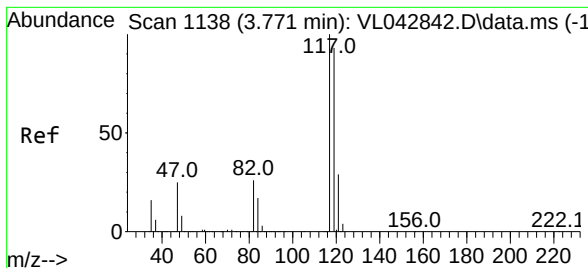
Tgt Ion: 43 Resp: 252300

Ion Ratio Lower Upper

43 100

72 23.3 18.6 28.0





#35

Carbon Tetrachloride

Concen: 9.222 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:117 Resp: 26298

Ion Ratio Lower Upper

117 100

119 93.4 74.7 112.1

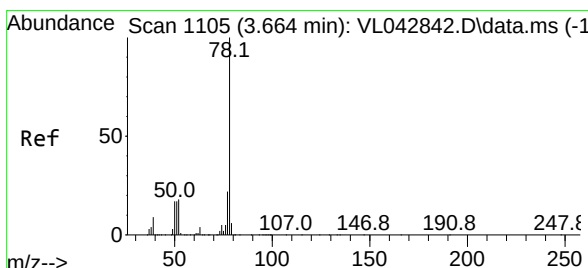
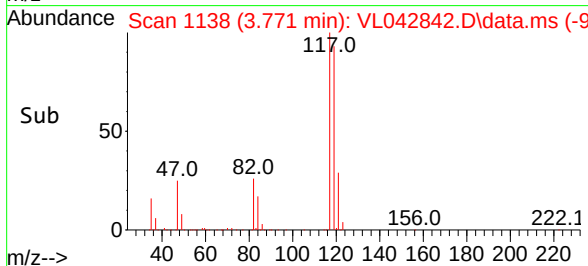
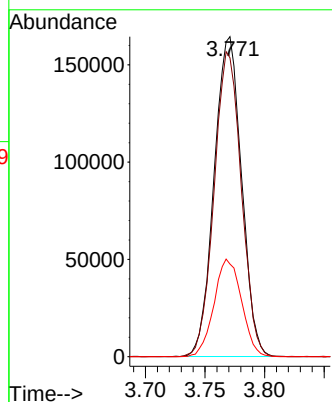
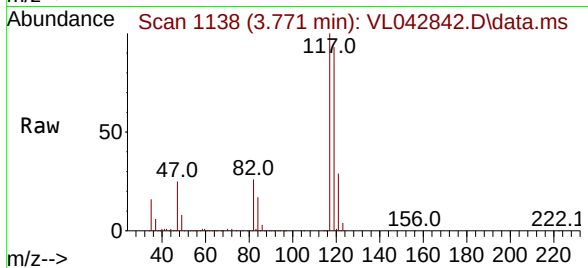
121 29.0 23.2 34.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#36

Benzene

Concen: 9.521 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

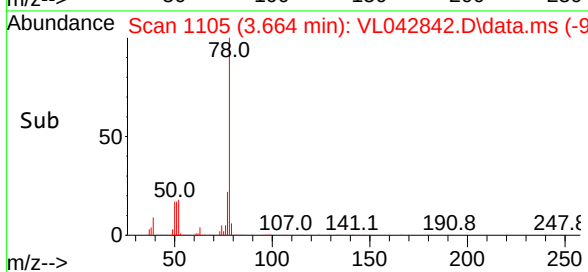
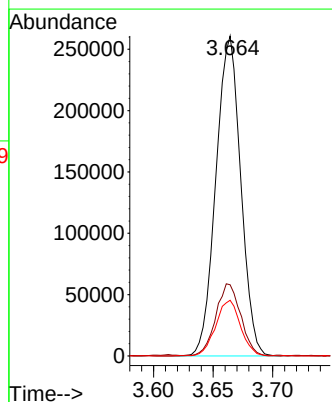
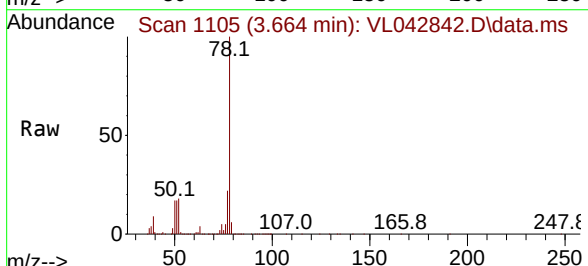
Tgt Ion: 78 Resp: 377113

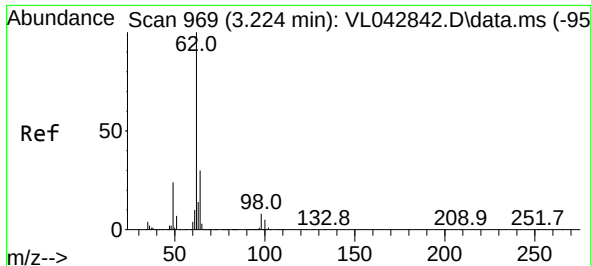
Ion Ratio Lower Upper

78 100

77 22.1 17.7 26.5

50 17.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.653 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 199762

Ion Ratio Lower Upper

62 100

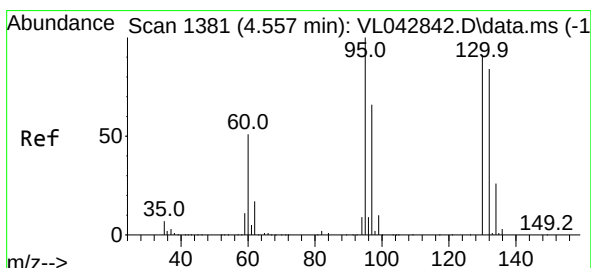
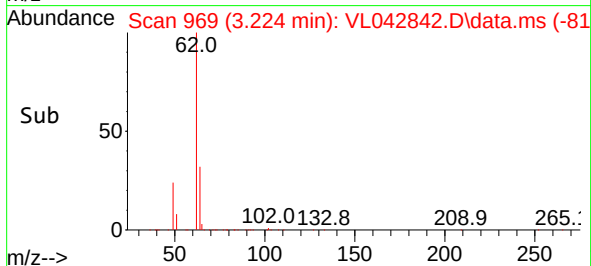
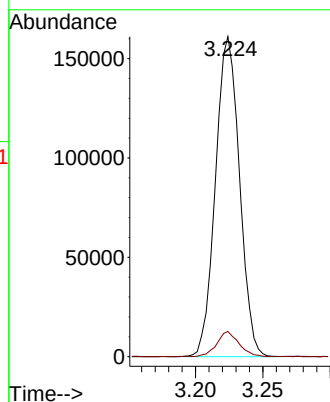
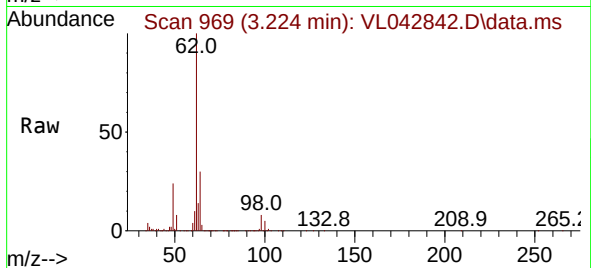
98 7.4 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#38

Trichloroethene

Concen: 9.115 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:130 Resp: 164881

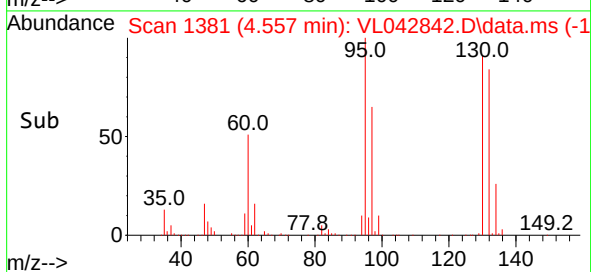
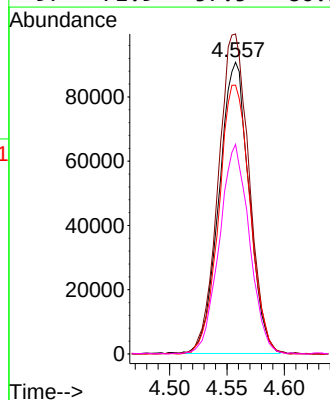
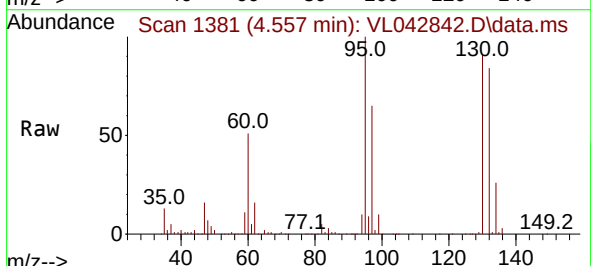
Ion Ratio Lower Upper

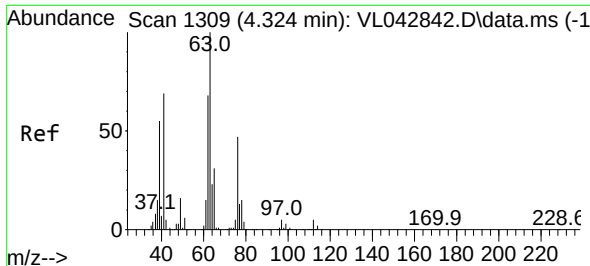
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

97 71.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.263 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042842.D

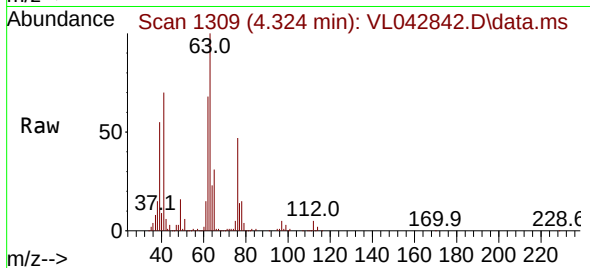
Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

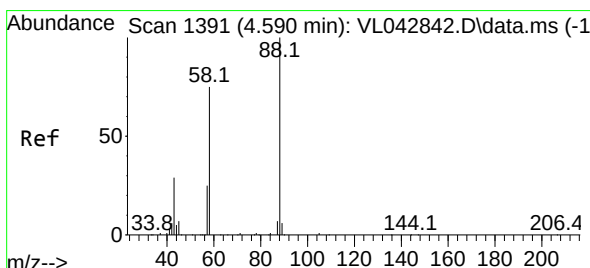
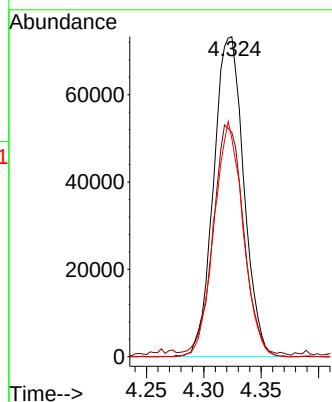
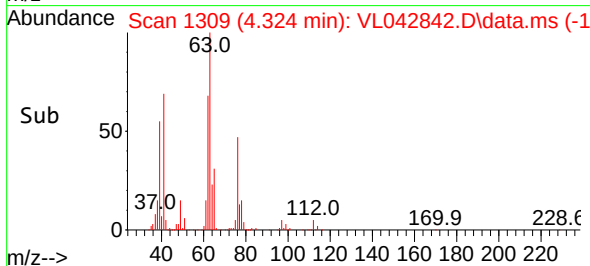


Tgt Ion:	63	Resp:	133990
Ion Ratio	100	Lower	Upper
63	100		
41	68.7	55.0	82.4
62	68.0	54.4	81.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 9.064 ppbv

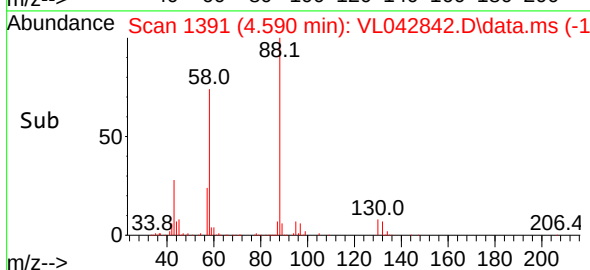
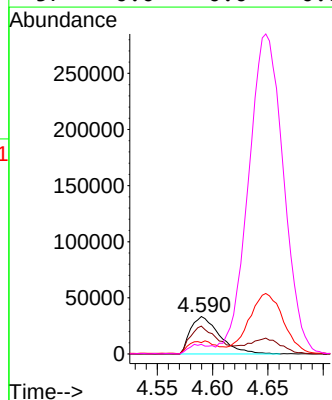
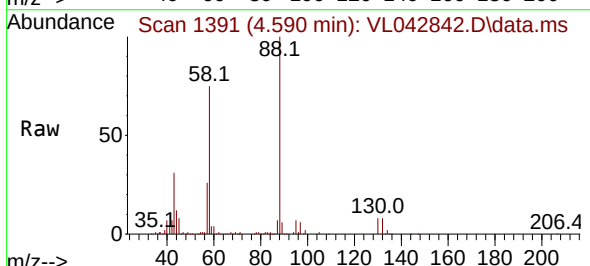
RT: 4.590 min Scan# 1391

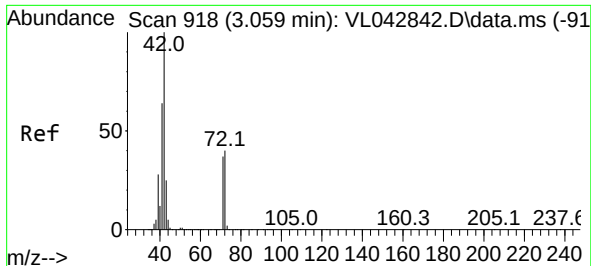
Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

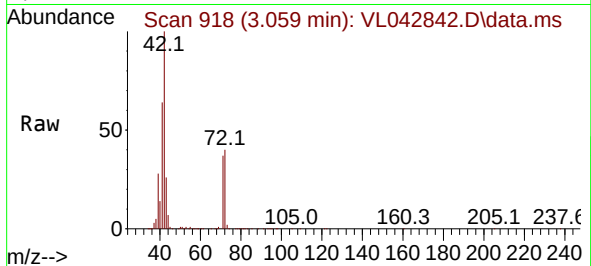
Tgt Ion:	88	Resp:	61378
Ion Ratio	100	Lower	Upper
88	100		
58	67.2	53.8	80.6
43	28.5	22.8	34.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

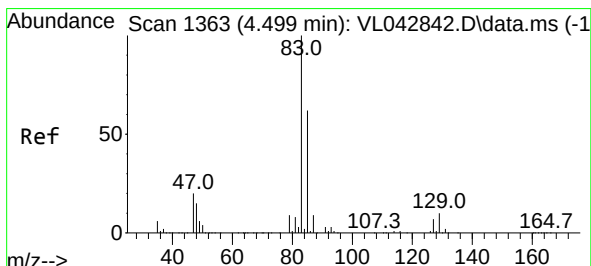
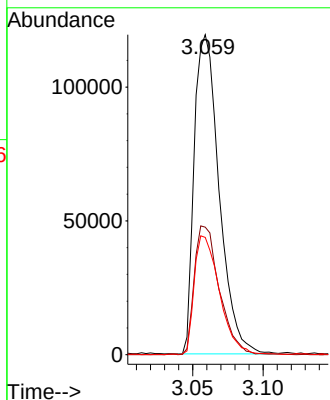
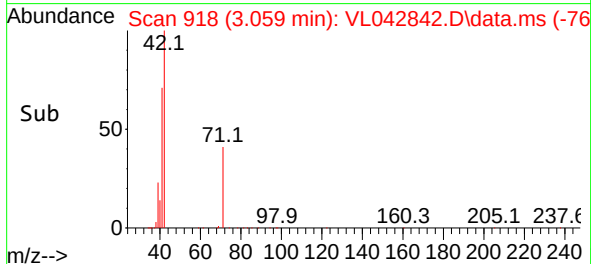
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 42 Resp: 147025
Ion Ratio Lower Upper
42 100
72 40.7 32.6 48.8
71 37.5 30.0 45.0

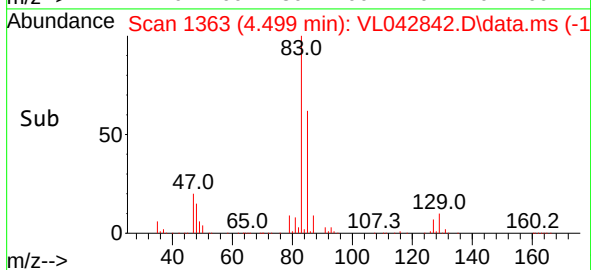
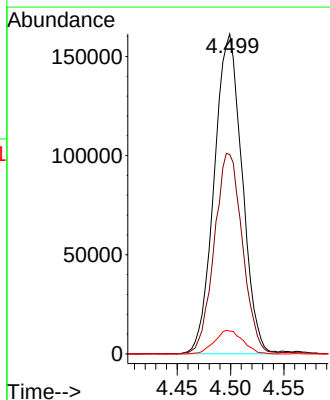
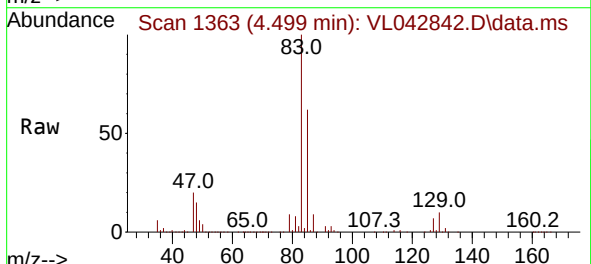
Manual Integrations
APPROVED

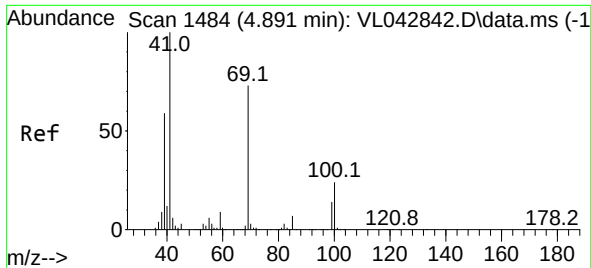
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

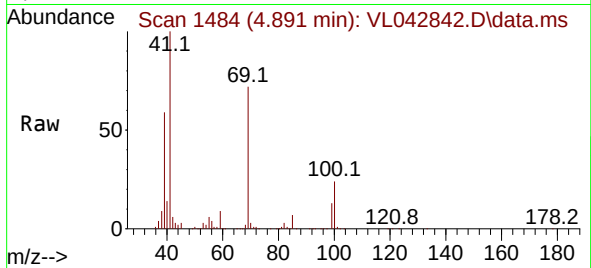
Tgt Ion: 83 Resp: 292909
Ion Ratio Lower Upper
83 100
85 62.3 49.8 74.8
127 7.2 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.357 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

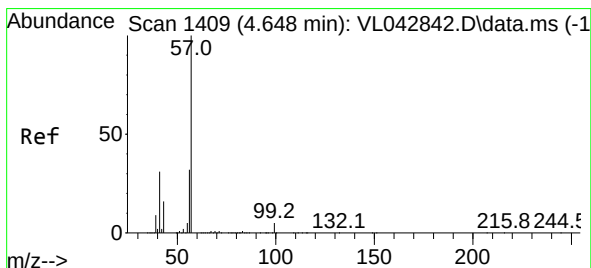
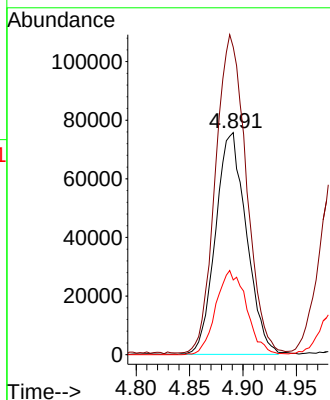
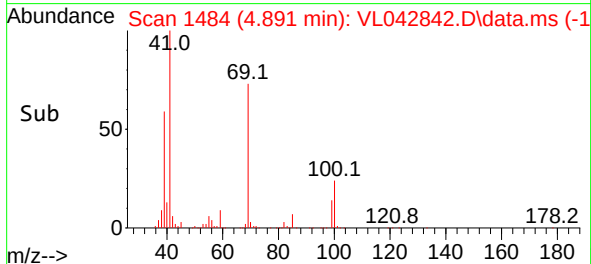
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



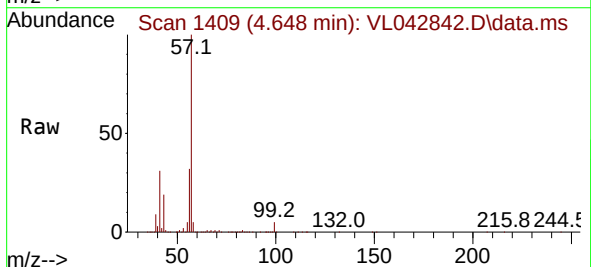
Tgt Ion: 69 Resp: 152035
Ion Ratio Lower Upper
69 100
41 143.3 114.6 172.0
100 37.8 30.2 45.4

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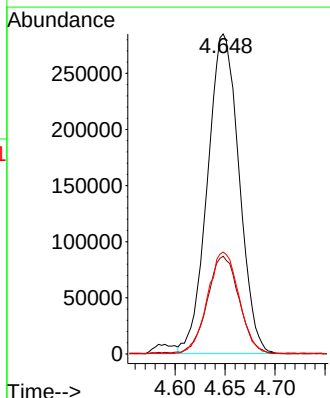
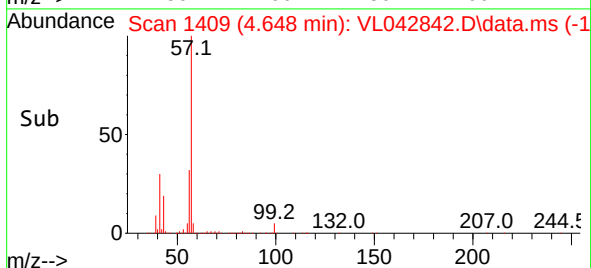
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

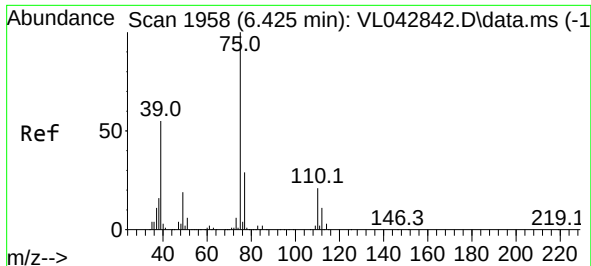


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion: 57 Resp: 626465
Ion Ratio Lower Upper
57 100
41 31.0 24.8 37.2
56 31.9 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.616 ppbv

RT: 6.425 min Scan# 1958

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 17720

Ion Ratio Lower Upper

75 100

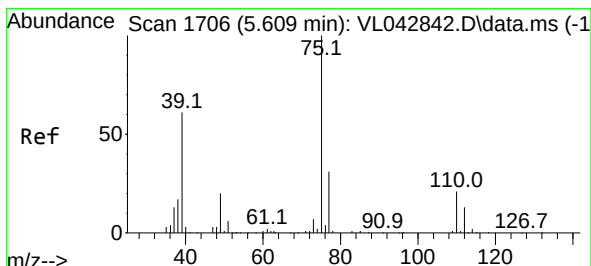
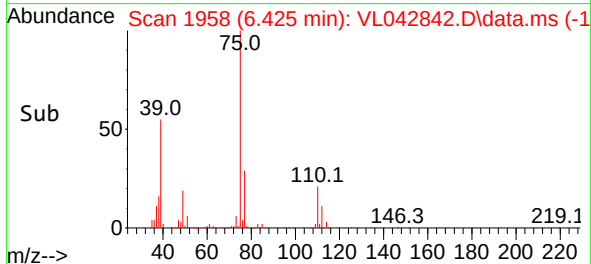
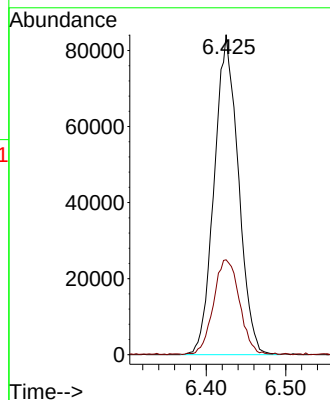
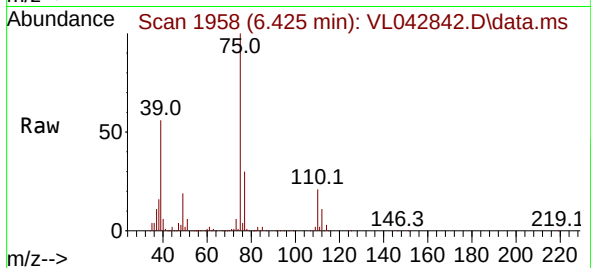
77 29.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#46

cis-1,3-Dichloropropene

Concen: 9.635 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

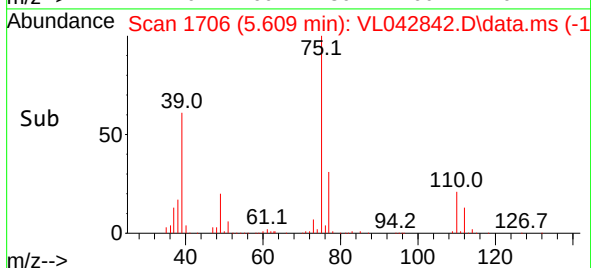
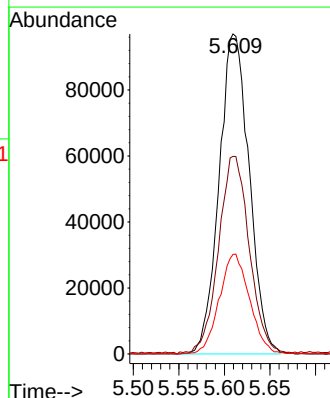
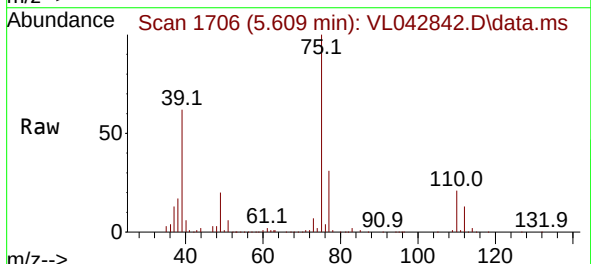
Tgt Ion: 75 Resp: 222921

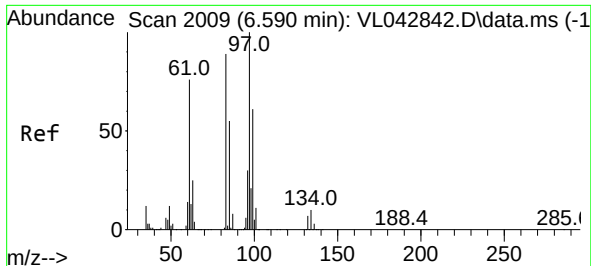
Ion Ratio Lower Upper

75 100

39 61.1 48.9 73.3

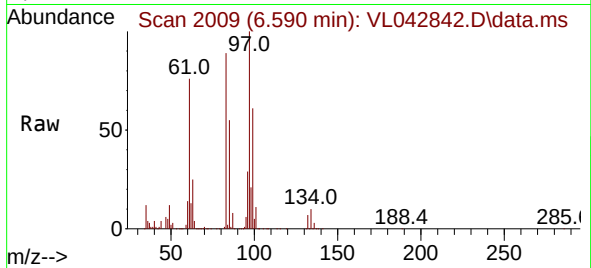
77 31.1 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 9.215 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

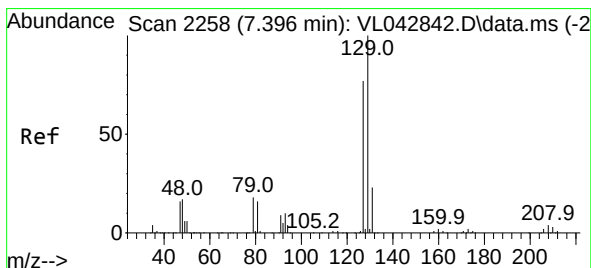
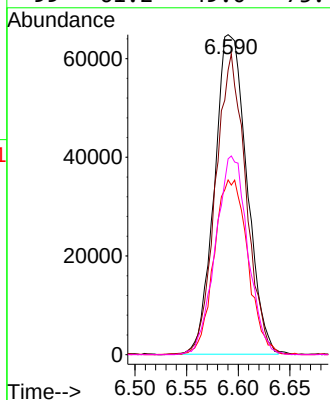
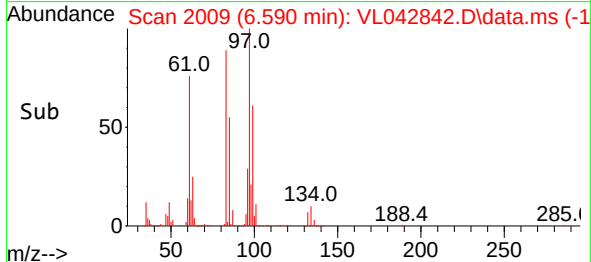
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 97 Resp: 14110
Ion Ratio Lower Upper
97 100
83 88.7 71.0 106.4
85 54.5 43.6 65.4
99 61.2 49.0 73.4

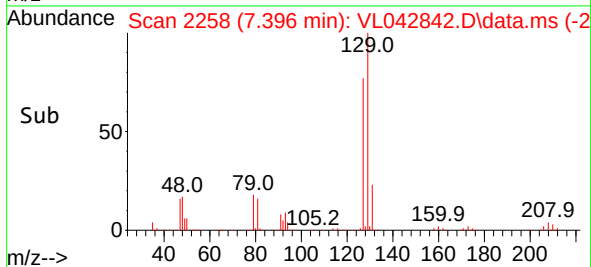
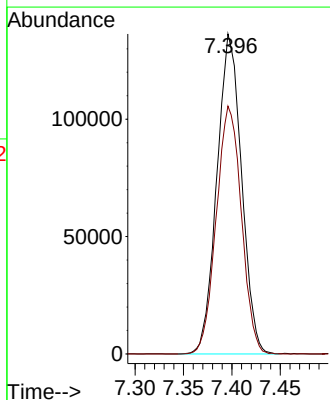
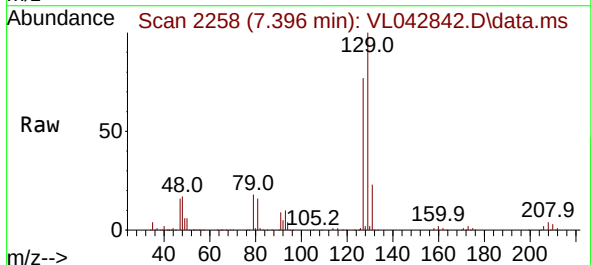
Manual Integrations
APPROVED

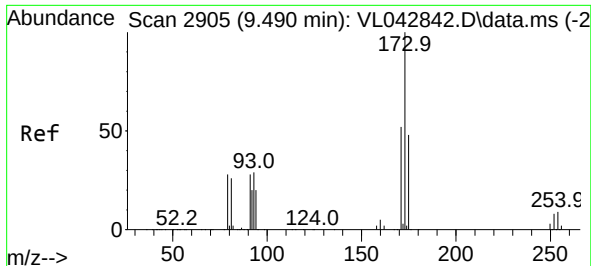
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48
Dibromochloromethane
Concen: 9.739 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

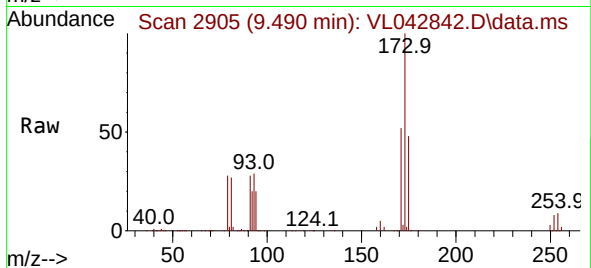
Tgt Ion:129 Resp: 241553
Ion Ratio Lower Upper
129 100
127 78.8 39.4 118.2





#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

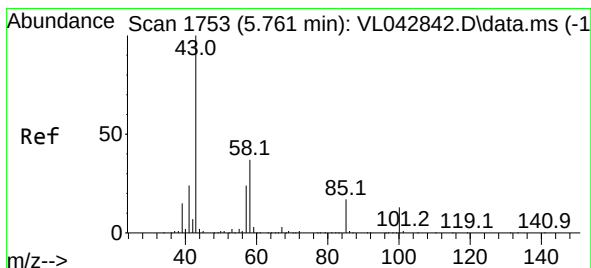
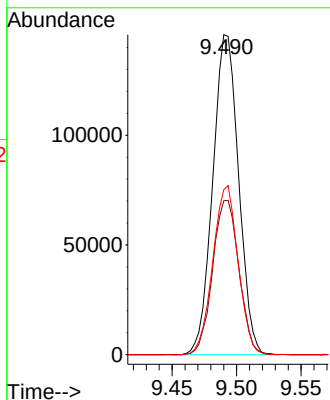
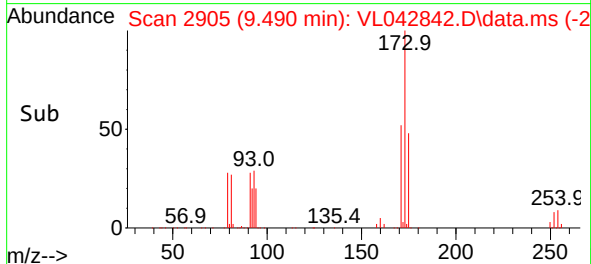
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 173 Resp: 202975
Ion Ratio Lower Upper
173 100
175 49.0 39.2 58.8
171 51.6 41.3 61.9

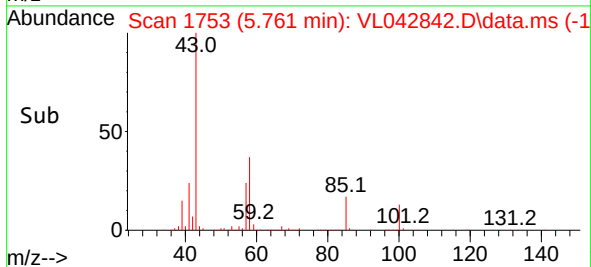
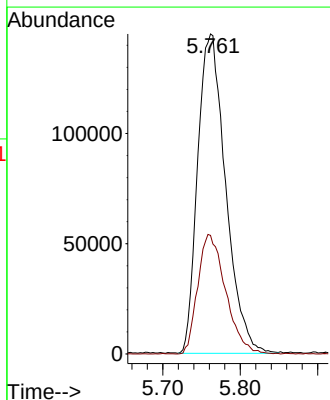
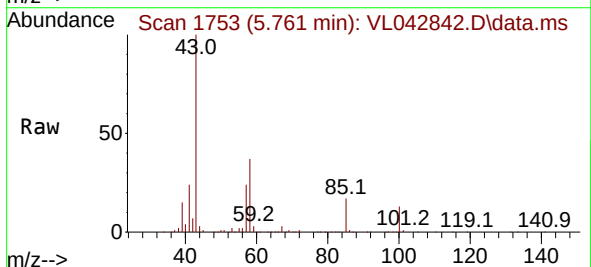
Manual Integrations
APPROVED

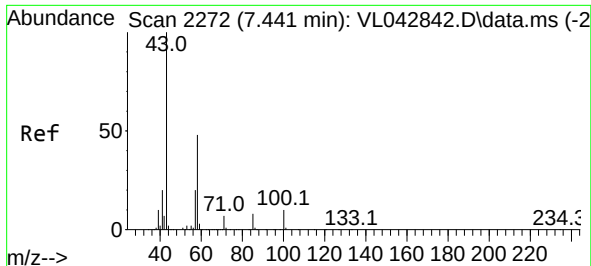
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 9.616 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

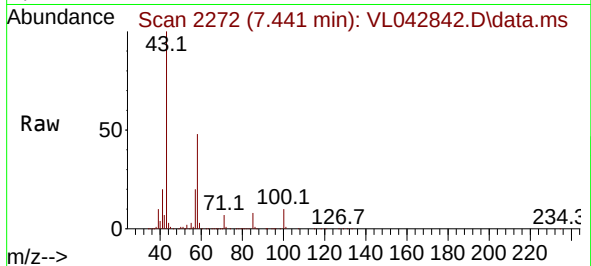
Tgt Ion: 43 Resp: 364306
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8





#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

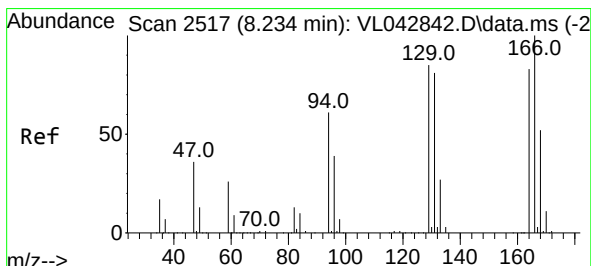
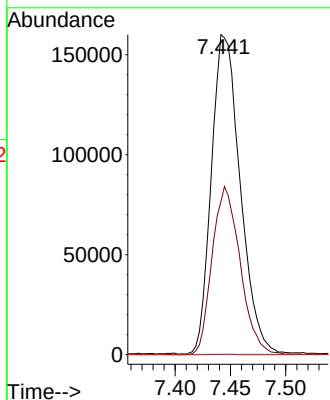
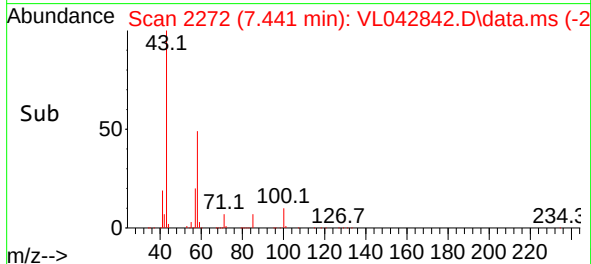
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 289052
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
98 0.1 0.1 0.1

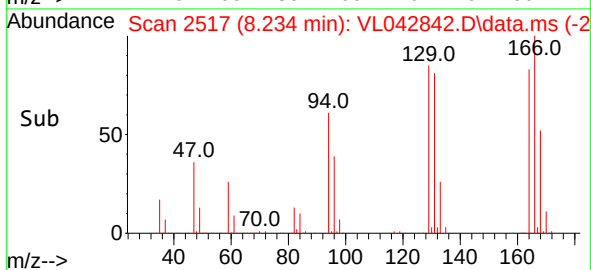
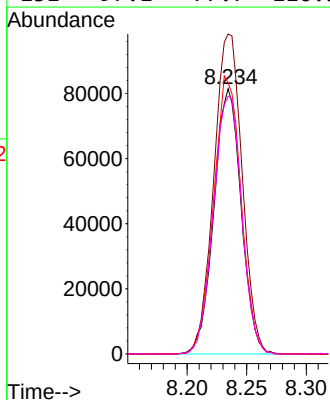
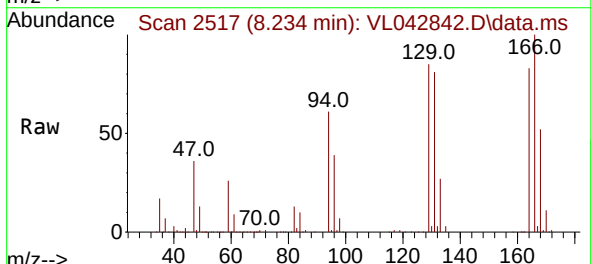
Manual Integrations
APPROVED

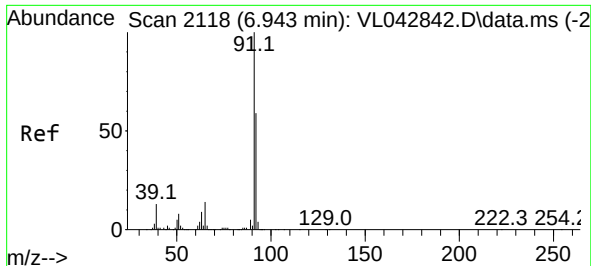
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 9.026 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

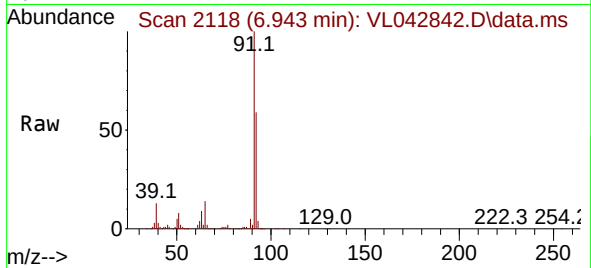
Tgt Ion:164 Resp: 129484
Ion Ratio Lower Upper
164 100
166 120.6 96.5 144.7
129 102.2 81.8 122.6
131 97.1 77.7 116.5





#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

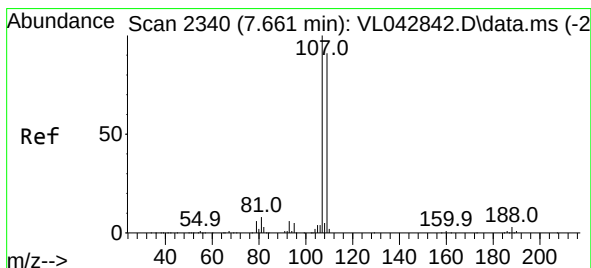
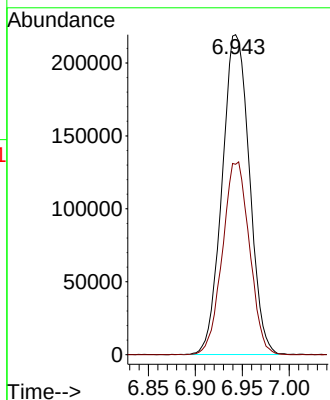
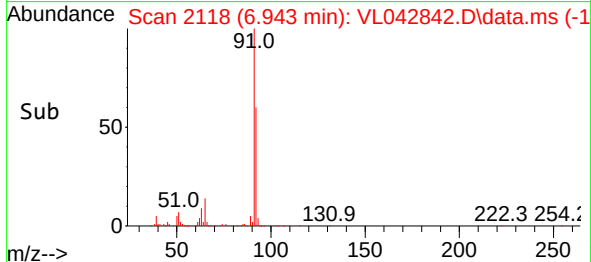
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



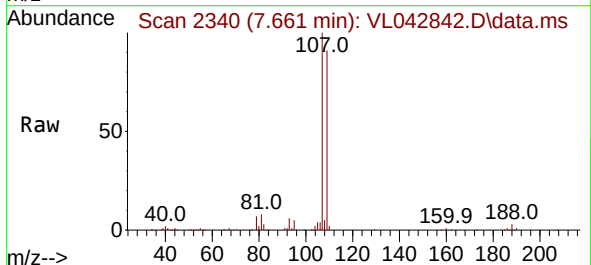
Tgt Ion: 91 Resp: 443400
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

Manual Integrations
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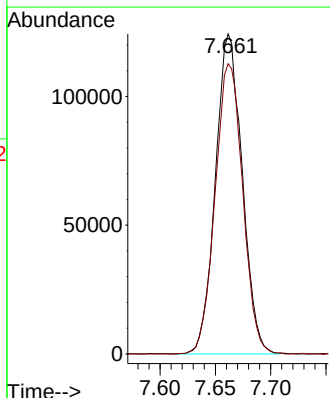
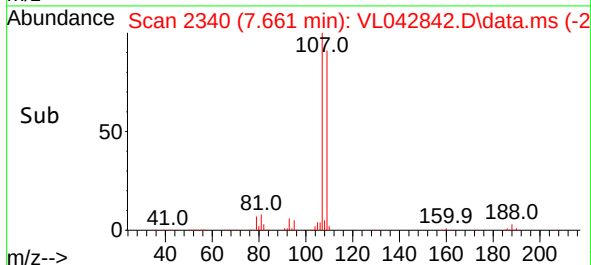
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

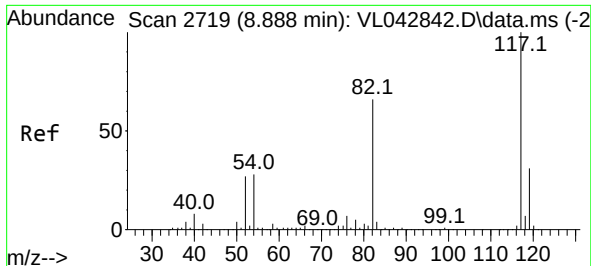


#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



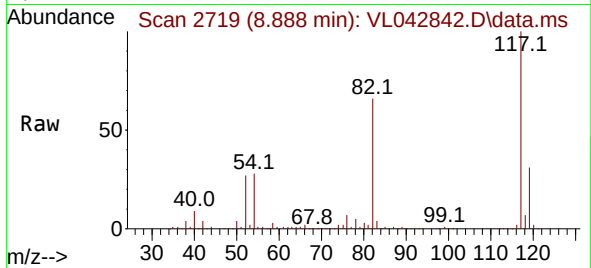
Tgt Ion:107 Resp: 209330
Ion Ratio Lower Upper
107 100
109 90.6 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

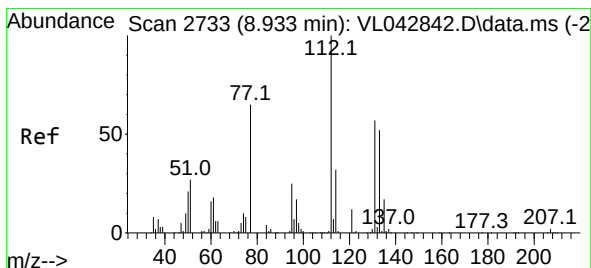
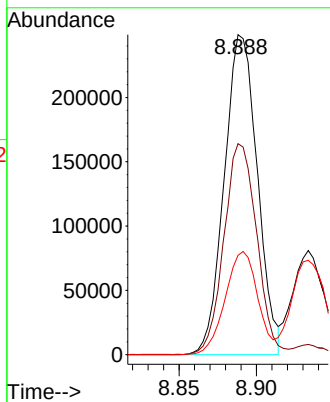
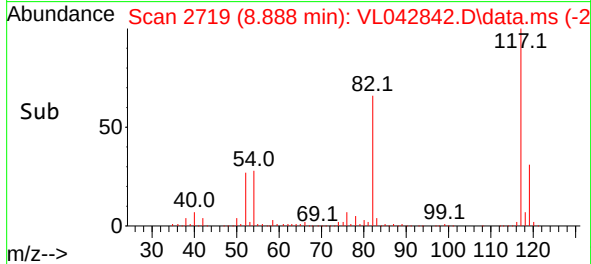
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 370372
Ion Ratio Lower Upper
117 100
82 68.2 54.6 81.8
119 32.4 25.9 38.9

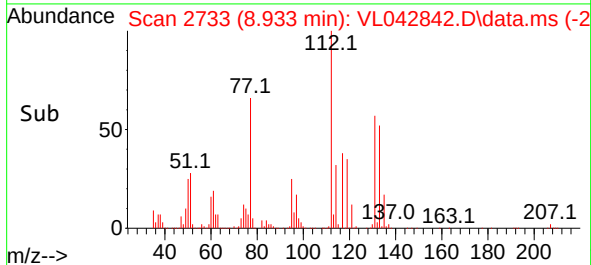
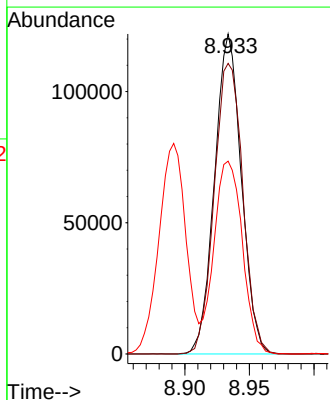
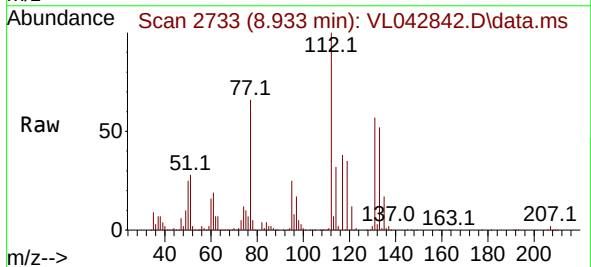
Manual Integrations
APPROVED

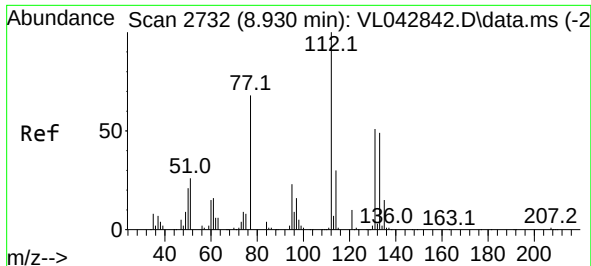
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.196 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:131 Resp: 176135
Ion Ratio Lower Upper
131 100
133 96.7 77.4 116.0
119 64.0 51.2 76.8





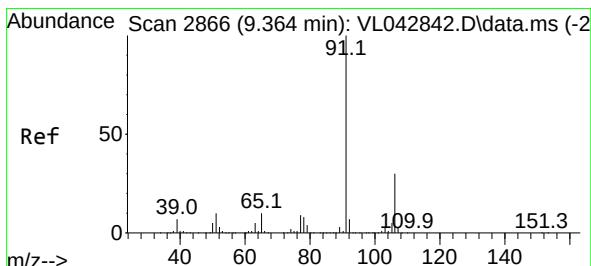
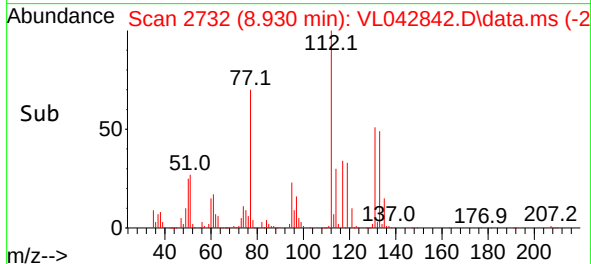
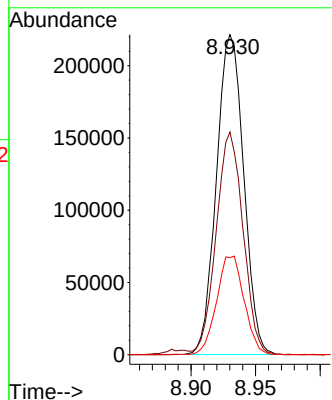
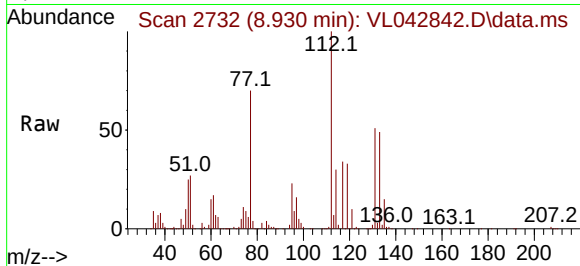
#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 112 Resp: 32530
Ion Ratio Lower Upper
112 100
77 69.4 55.5 83.3
114 30.2 27.2 33.2

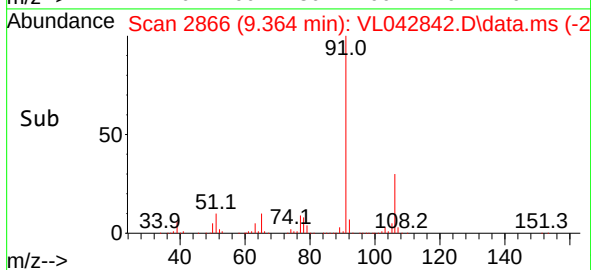
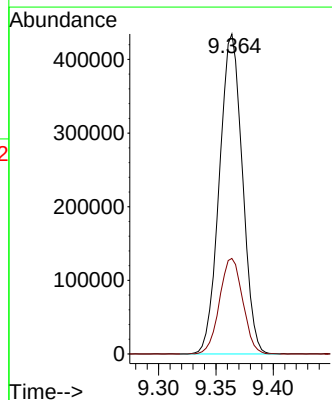
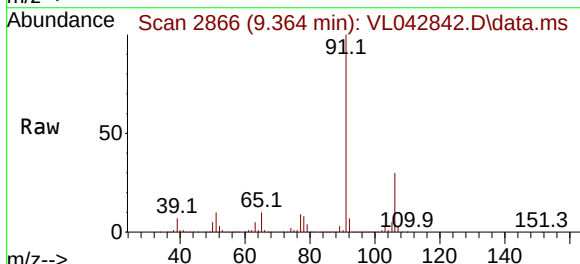
Manual Integrations
APPROVED

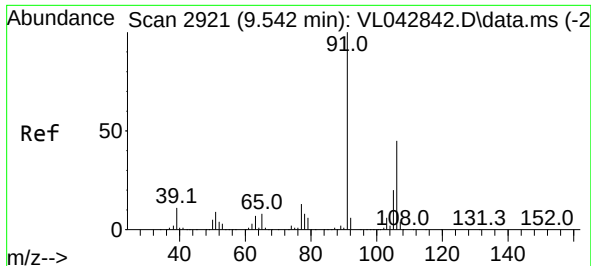
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 9.268 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9





#59

m/p-Xylene

Concen: 18.524 ppbv m

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 950548

Ion Ratio Lower Upper

91 100

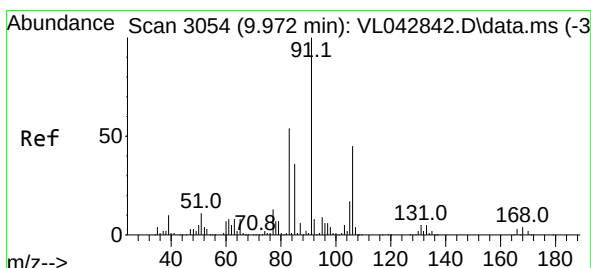
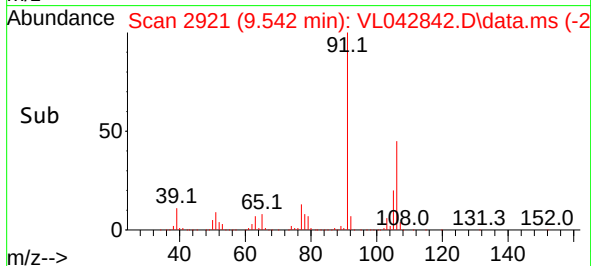
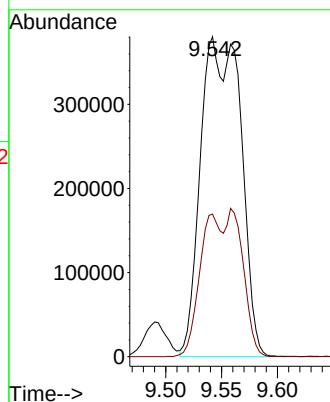
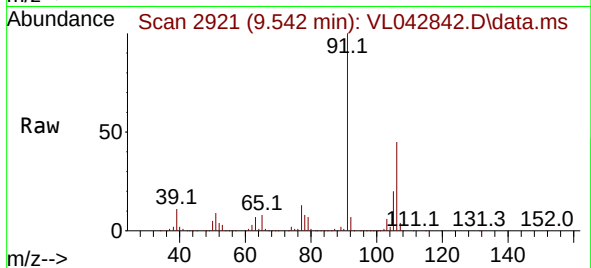
106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 9.102 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042842.D

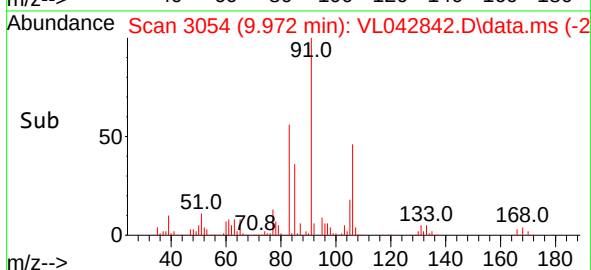
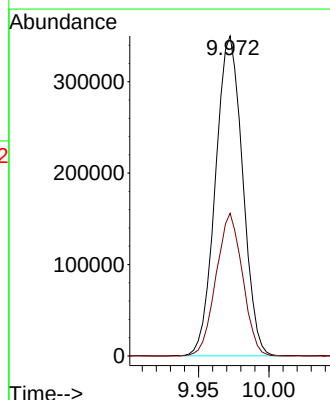
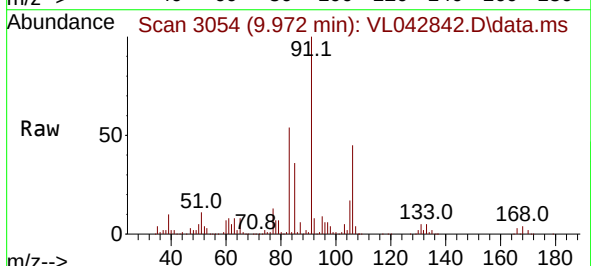
Acq: 13 Aug 2025 08:30

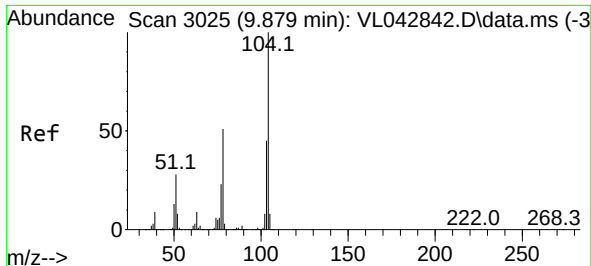
Tgt Ion: 91 Resp: 469073

Ion Ratio Lower Upper

91 100

106 43.6 21.8 65.4





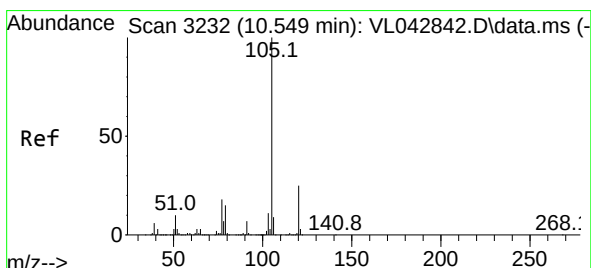
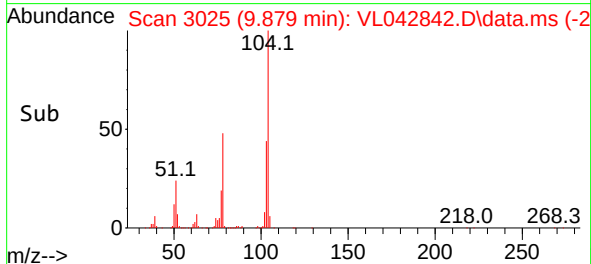
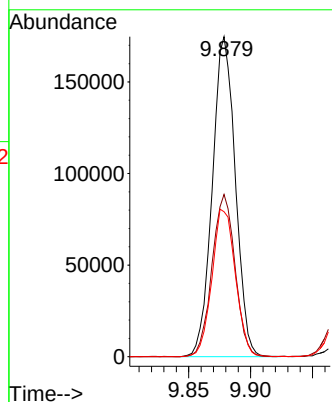
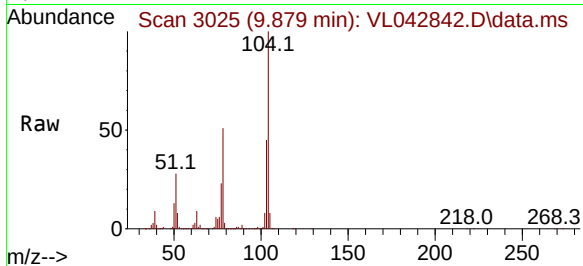
#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 226050
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 47.1 37.7 56.5

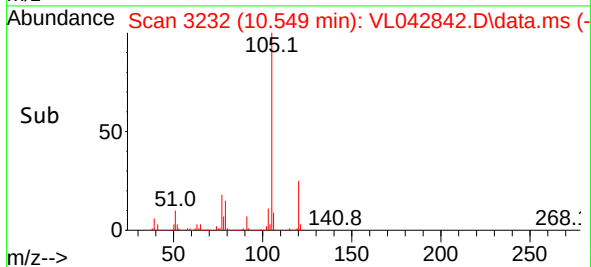
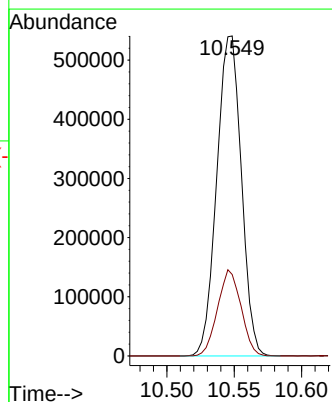
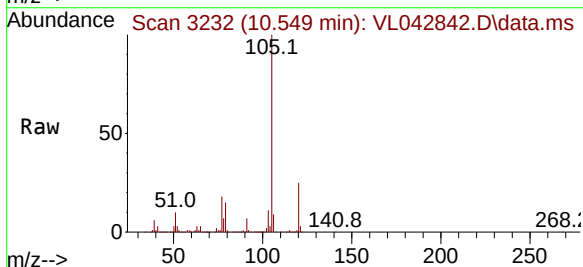
Manual Integrations
APPROVED

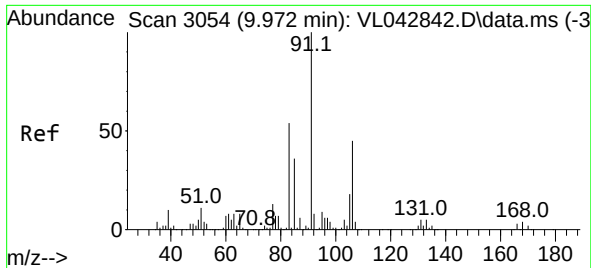
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

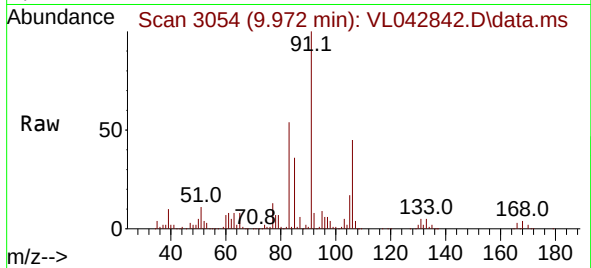
Tgt Ion:105 Resp: 685983
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.870 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

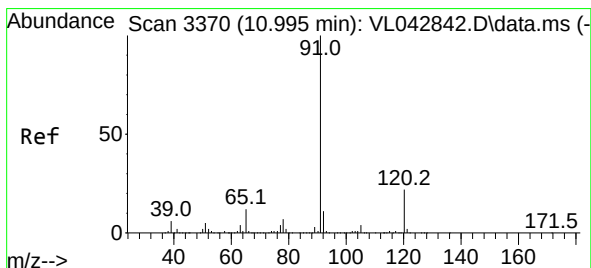
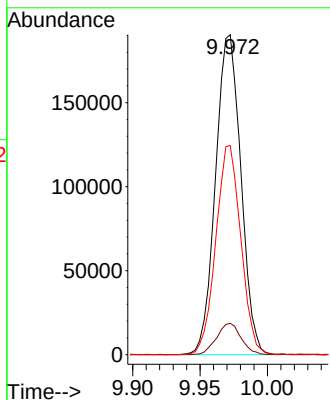
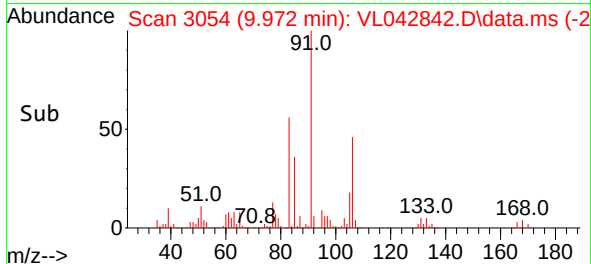
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



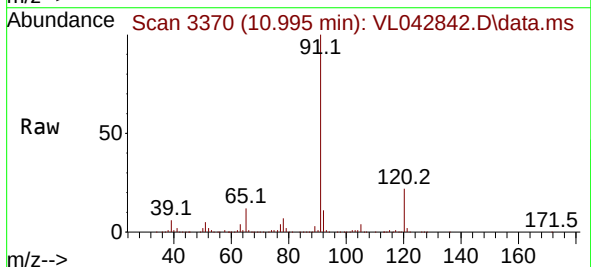
Tgt Ion: 83 Resp: 24962
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.5 32.3 96.8

Manual Integrations
APPROVED

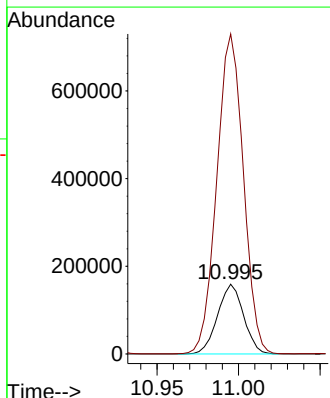
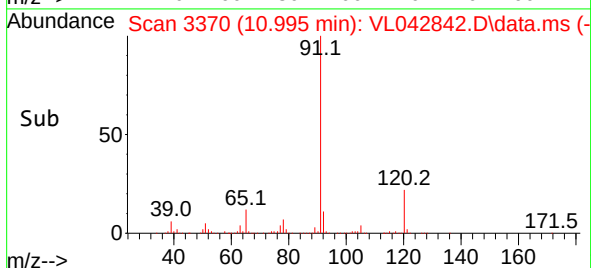
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

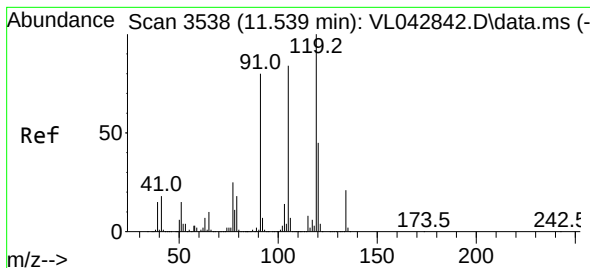


#64
n-propylbenzene
Concen: 9.158 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion:120 Resp: 175986
Ion Ratio Lower Upper
120 100
91 469.7 375.8 563.6





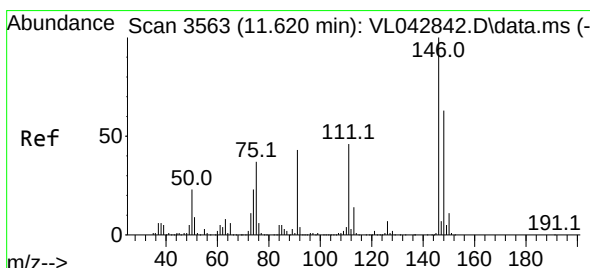
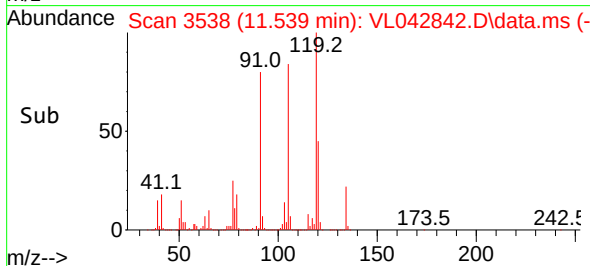
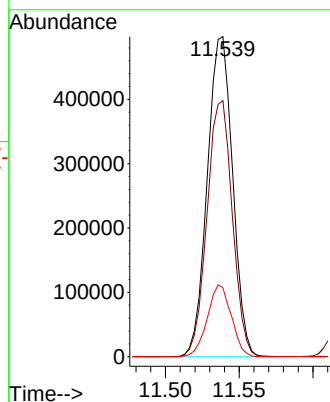
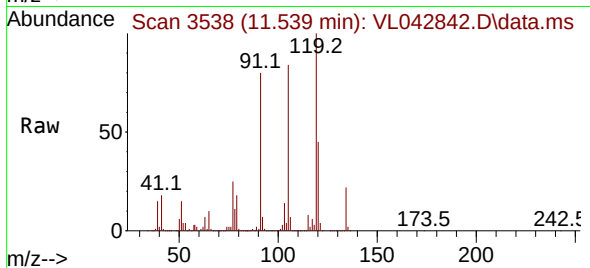
#65
tert-Butylbenzene
Concen: 8.951 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 594314
Ion Ratio Lower Upper
119 100
91 79.9 63.9 95.9
134 21.2 17.0 25.4

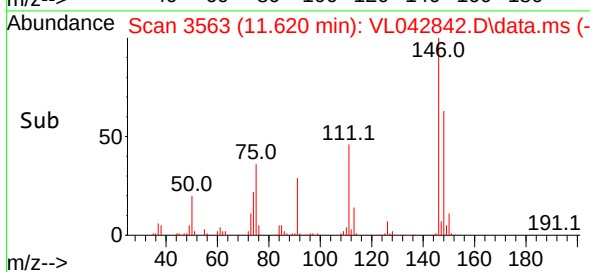
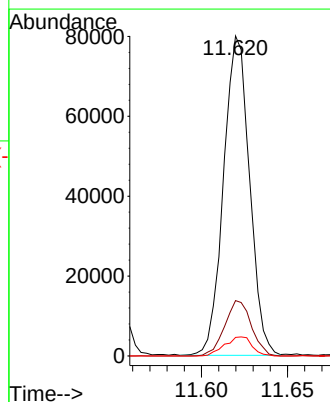
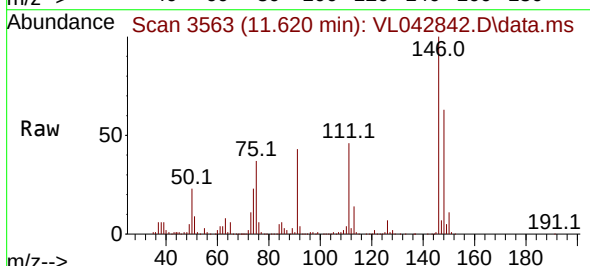
Manual Integrations
APPROVED

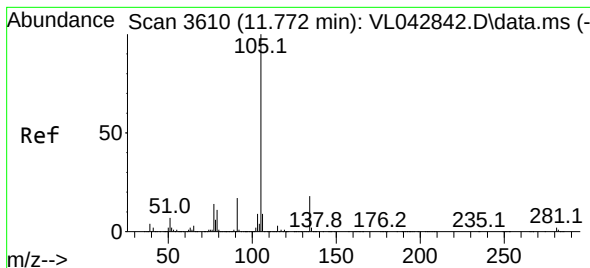
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

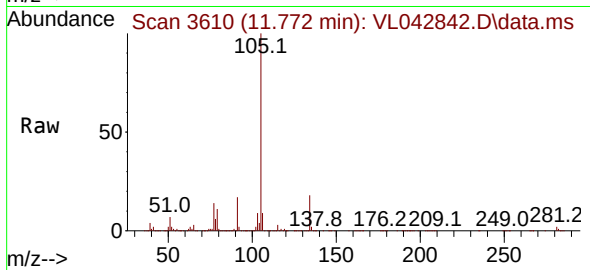
Tgt Ion: 91 Resp: 84156
Ion Ratio Lower Upper
91 100
126 17.8 14.2 21.4
128 6.3 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 8.943 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

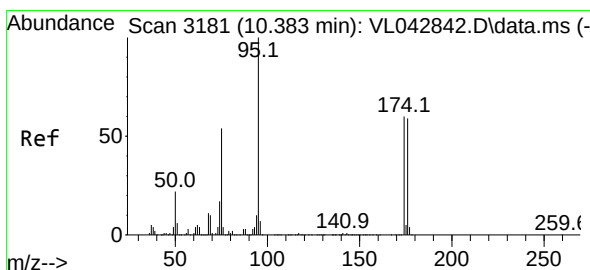
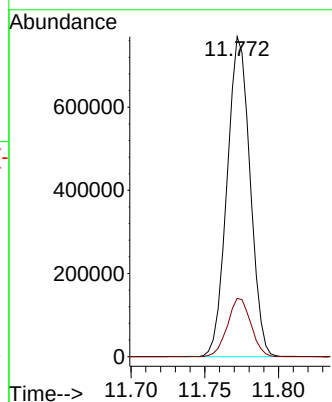
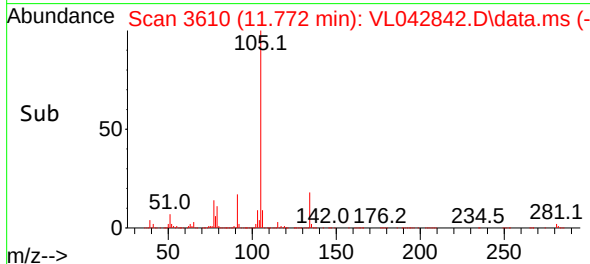
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



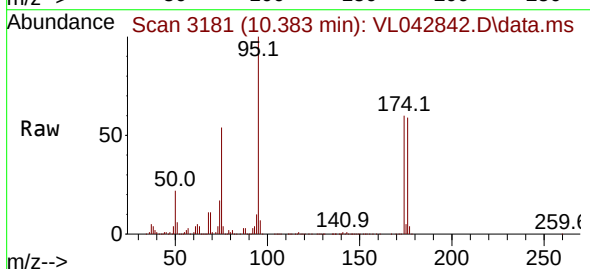
Tgt Ion:105 Resp: 833378
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

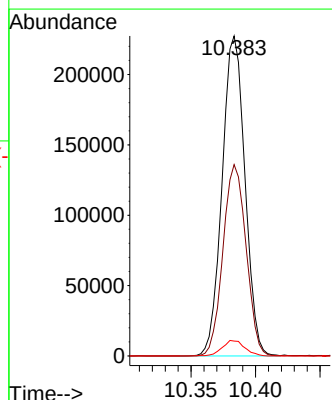
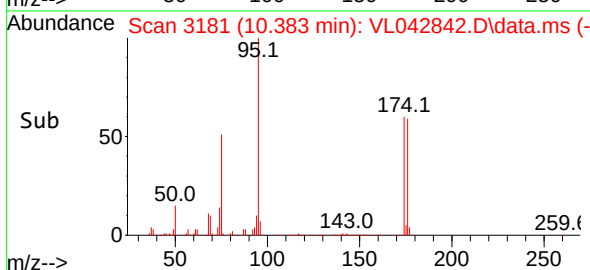
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

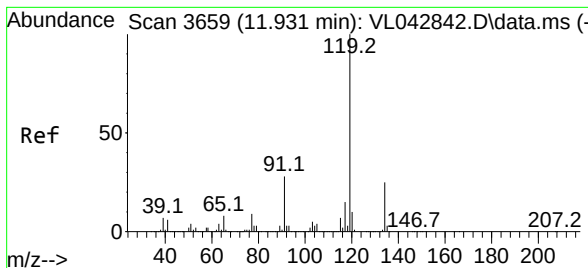


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



Tgt Ion: 95 Resp: 279557
 Ion Ratio Lower Upper
 95 100
 174 60.5 48.4 72.6
 175 4.8 3.8 5.8





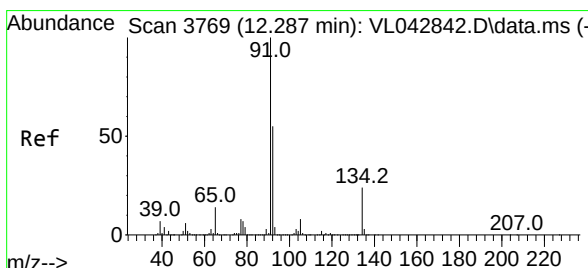
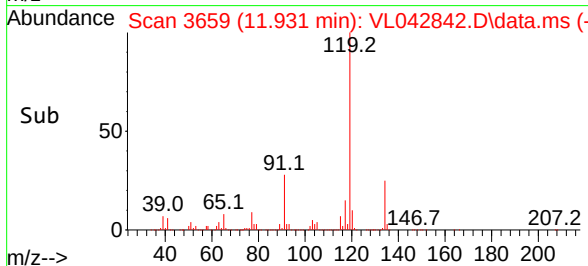
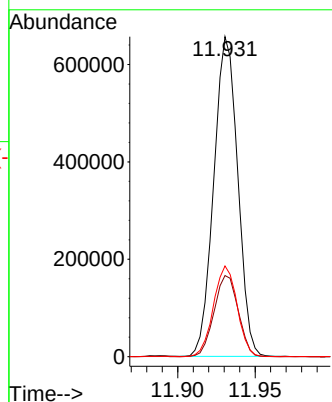
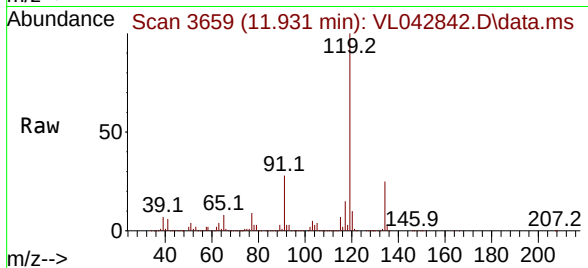
#69
 p-Isopropyltoluene
 Concen: 8.820 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument : MSVOA_1
 ClientSampleId : VSTDICCC010

Tgt Ion:119 Resp: 705700
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.6 30.8
 91 28.3 22.6 34.0

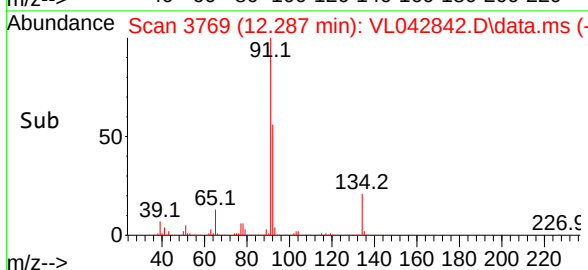
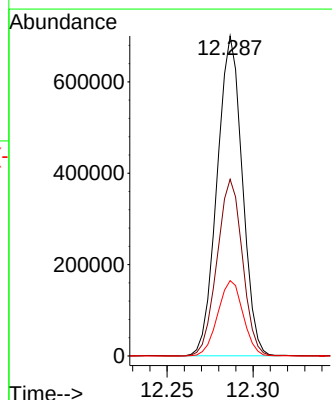
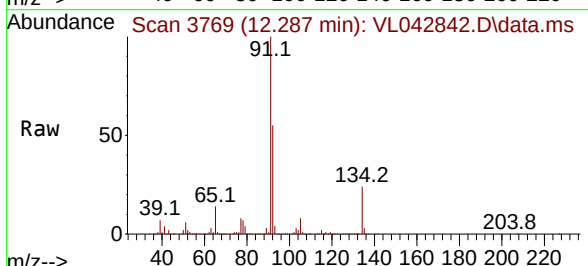
Manual Integrations
 APPROVED

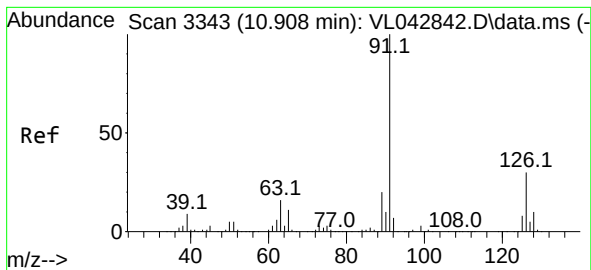
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#70
 n-Butylbenzene
 Concen: 8.995 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

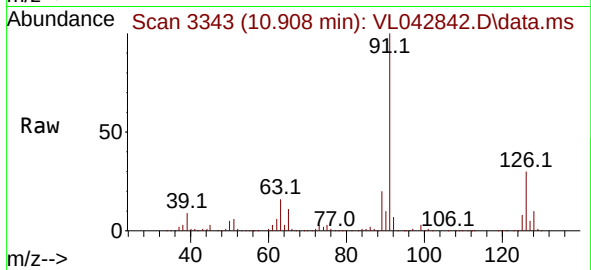
Tgt Ion: 91 Resp: 713713
 Ion Ratio Lower Upper
 91 100
 92 55.7 44.6 66.8
 134 23.7 19.0 28.4





#71
2-Chlorotoluene
Concen: 8.981 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

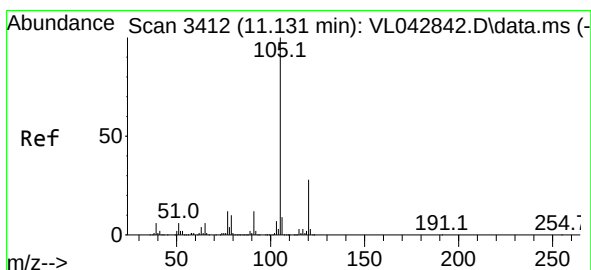
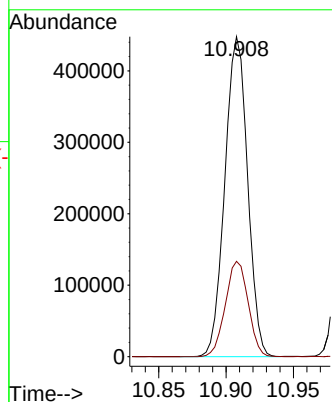
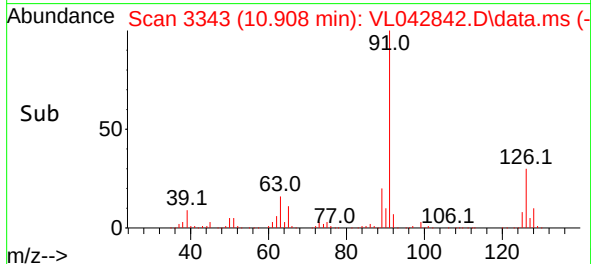
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 52523
Ion Ratio Lower Upper
91 100
126 29.9 12.0 47.8

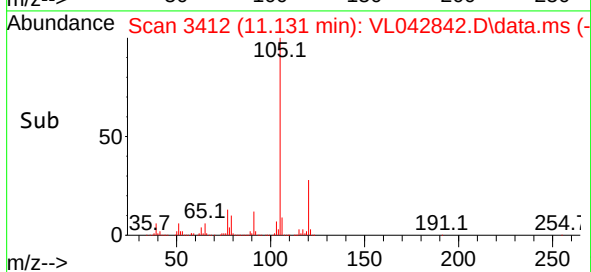
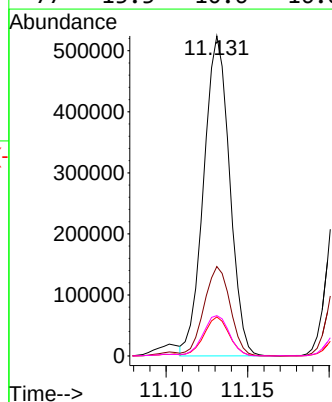
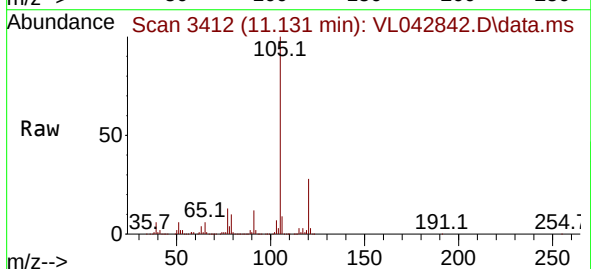
Manual Integrations
APPROVED

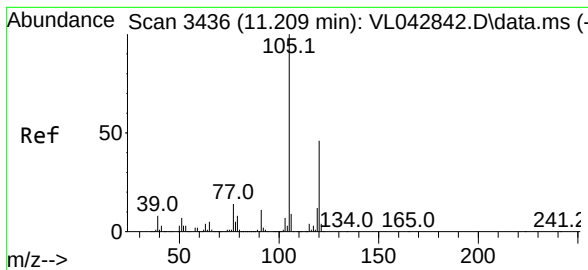
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 9.267 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

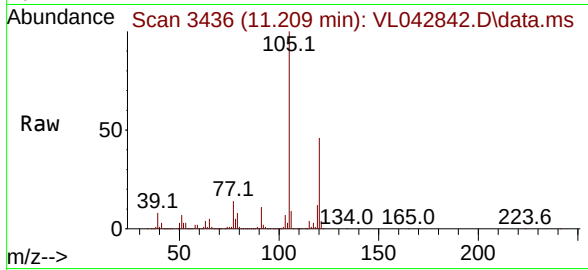
Tgt Ion:105 Resp: 578931
Ion Ratio Lower Upper
105 100
120 29.3 23.4 35.2
91 12.2 9.8 14.6
77 13.3 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 9.012 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

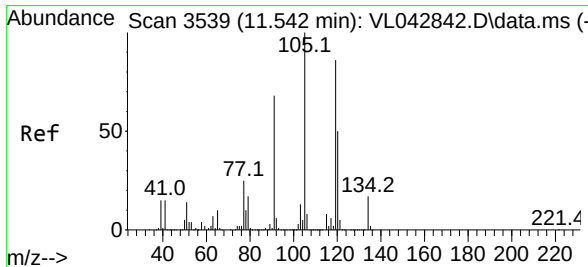
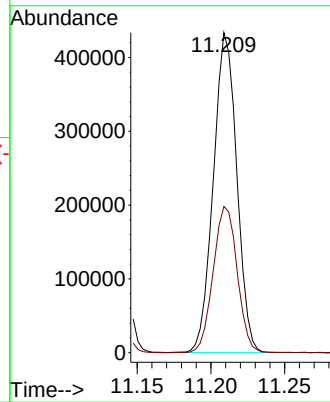
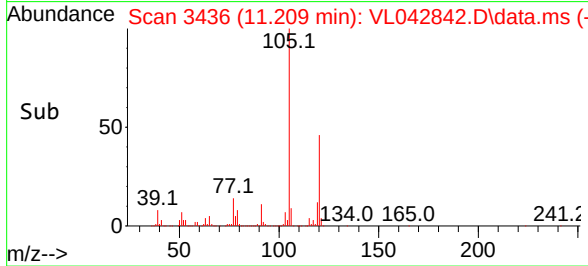
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



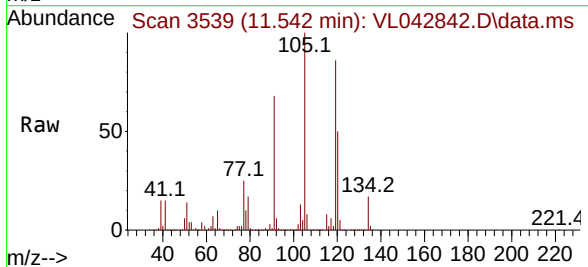
Tgt Ion:105 Resp: 478784
Ion Ratio Lower Upper
105 100
120 45.7 36.6 54.8

Manual Integrations
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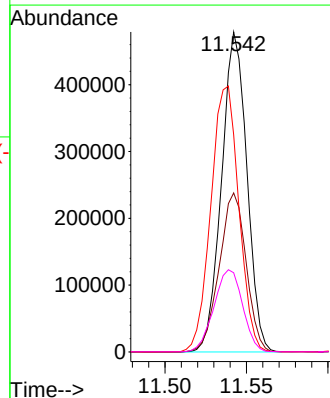
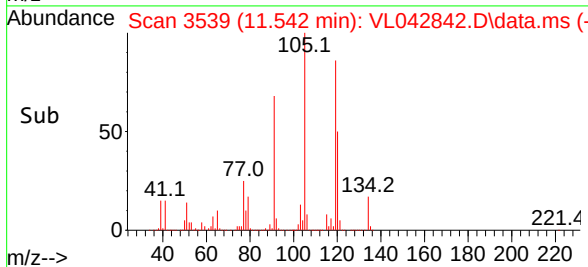
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

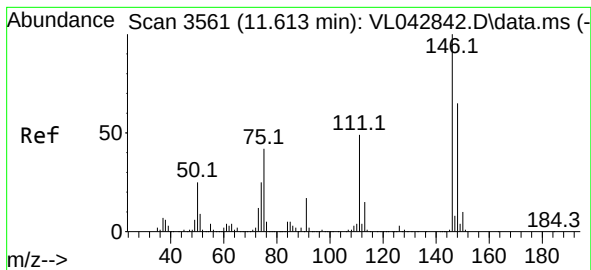


#74
1,2,4-Trimethylbenzene
Concen: 8.853 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion:105 Resp: 516253
Ion Ratio Lower Upper
105 100
120 49.7 39.8 59.6
91 67.8 54.2 81.4
77 24.7 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.280 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 307640

Ion Ratio Lower Upper

146 100

111 47.8 23.9 71.7

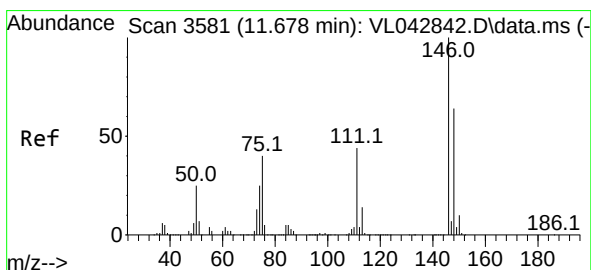
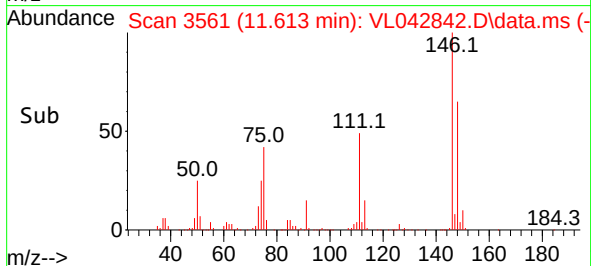
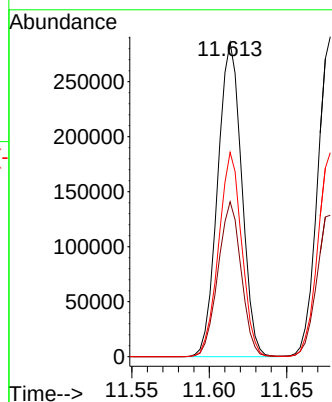
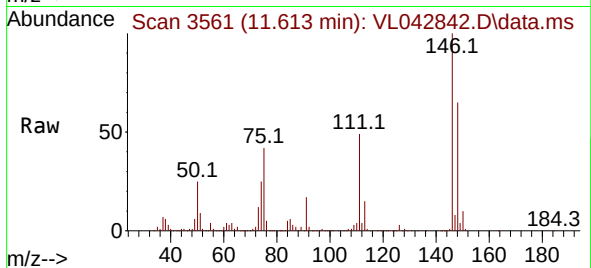
148 62.7 31.4 94.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#76

1,4-Dichlorobenzene

Concen: 9.203 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

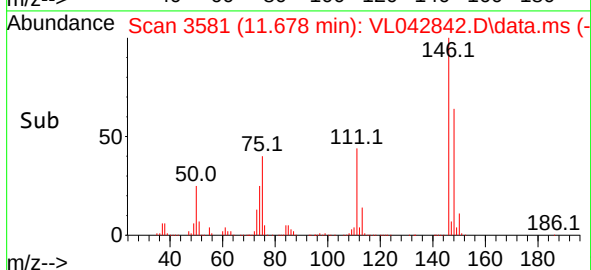
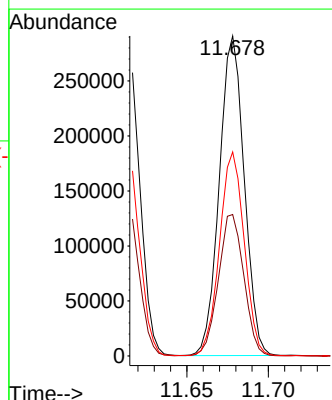
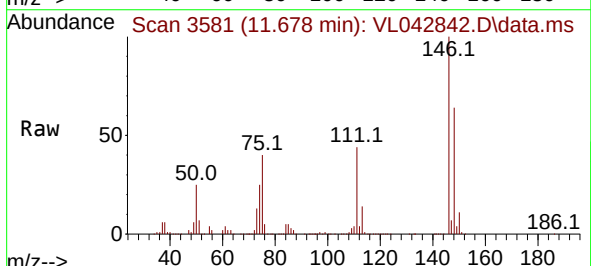
Tgt Ion:146 Resp: 308542

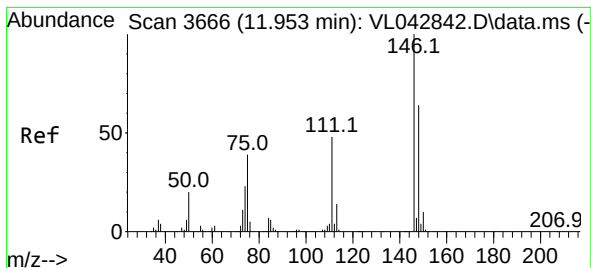
Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

148 63.5 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.907 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 289119

Ion Ratio Lower Upper

146 100

111 49.3 24.6 74.0

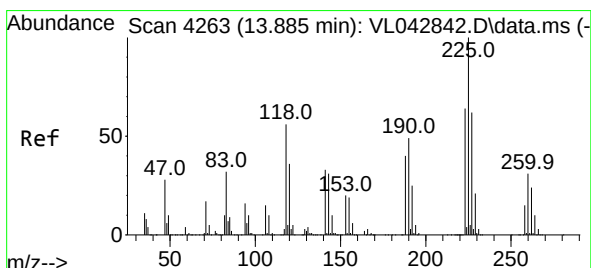
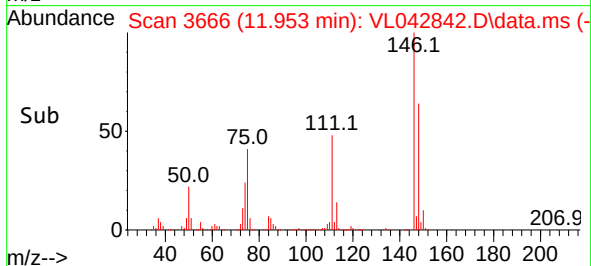
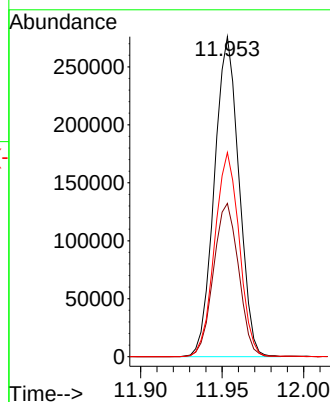
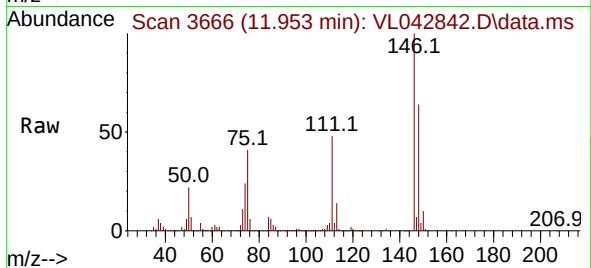
148 64.0 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.968 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

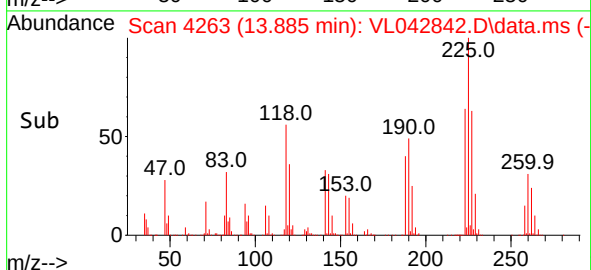
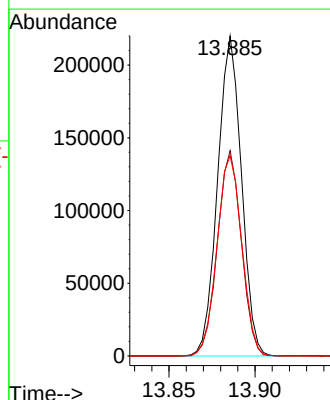
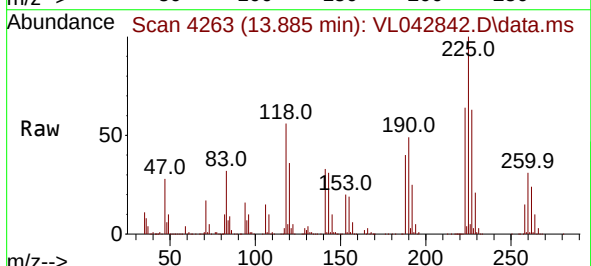
Tgt Ion:225 Resp: 211996

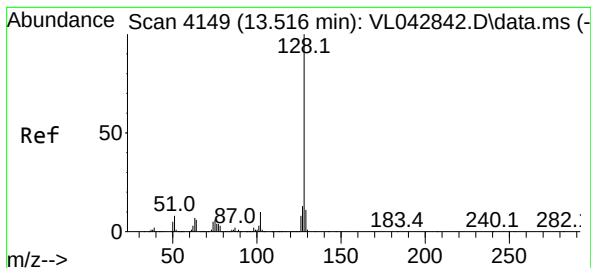
Ion Ratio Lower Upper

225 100

223 64.3 51.4 77.2

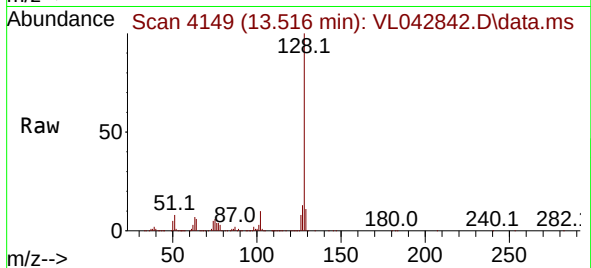
227 64.9 51.9 77.9





#79
Naphthalene
Concen: 9.335 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

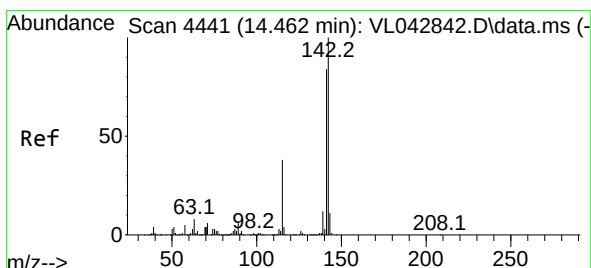
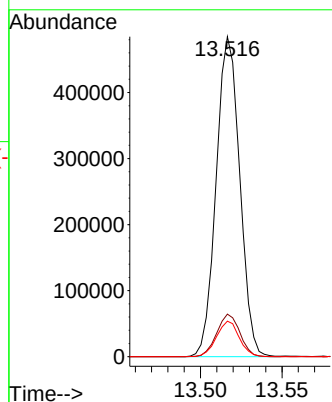
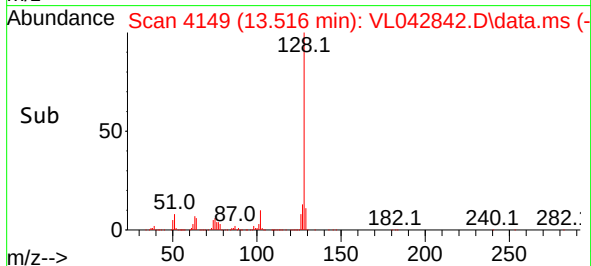
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:128 Resp: 487174
Ion Ratio Lower Upper
128 100
127 13.3 10.6 16.0
129 11.1 8.9 13.3

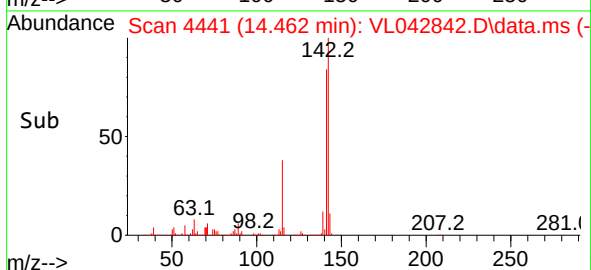
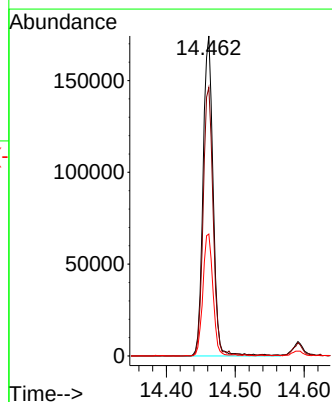
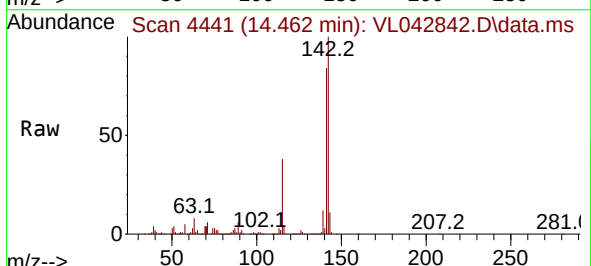
Manual Integrations
APPROVED

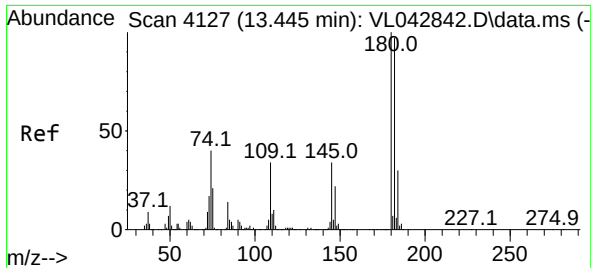
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80
Naphthalene,2-methyl-
Concen: 9.000 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

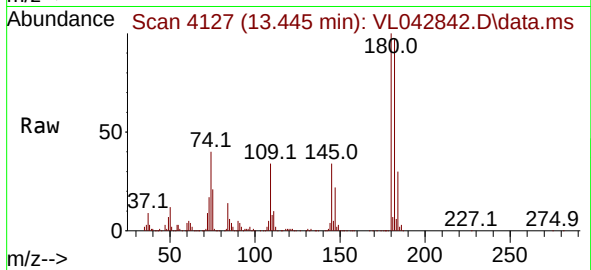
Tgt Ion:142 Resp: 176880
Ion Ratio Lower Upper
142 100
141 83.8 67.0 100.6
115 38.6 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 9.220 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

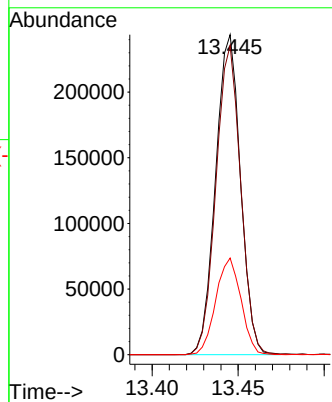
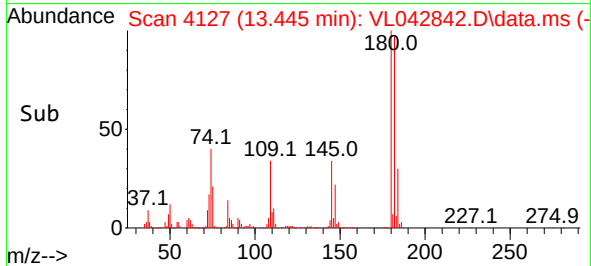
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 244998
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.9 115.3
 184 30.6 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	1817m	2.008	ppbv	
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	13510m	2.022	ppbv	
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	33851m	2.111	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

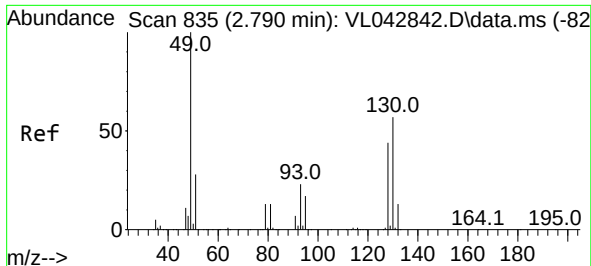
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

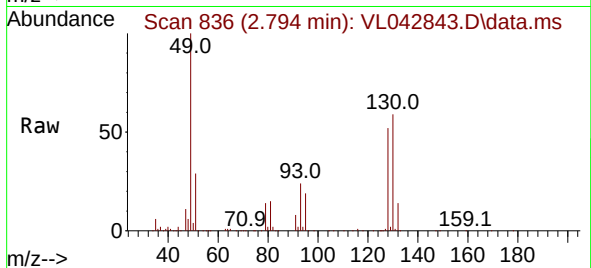
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.558	91	211704m	4.200	ppbv	
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

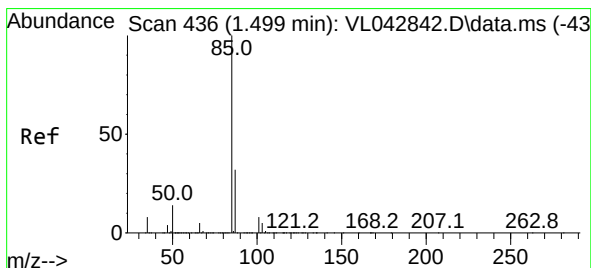
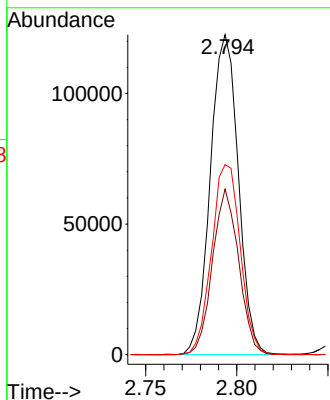
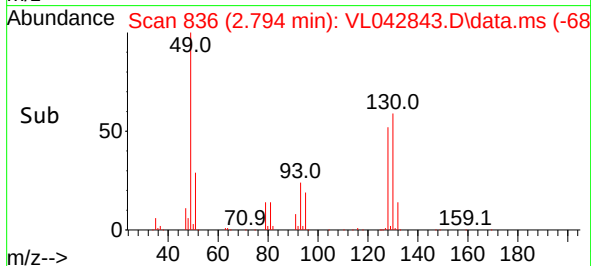
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 49 Resp: 13055
Ion Ratio Lower Upper
49 100
128 48.7 23.7 71.1
130 61.3 30.6 91.6

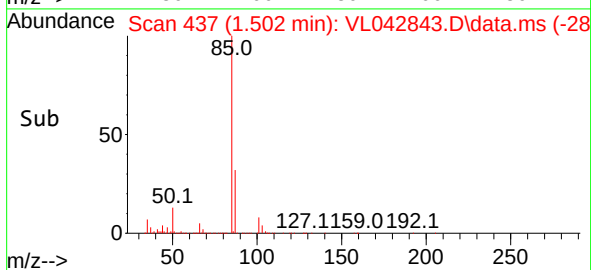
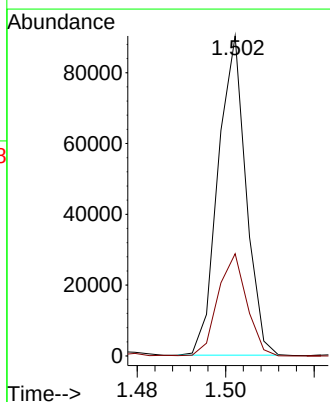
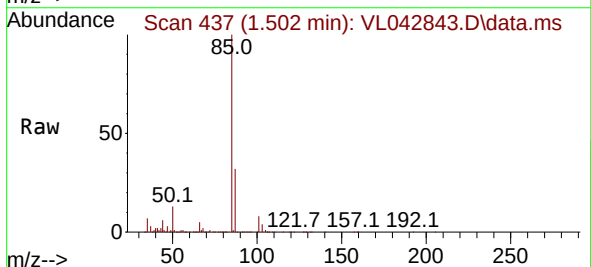
Manual Integrations
APPROVED

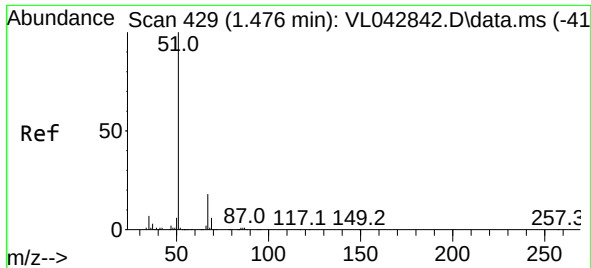
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 2.061 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

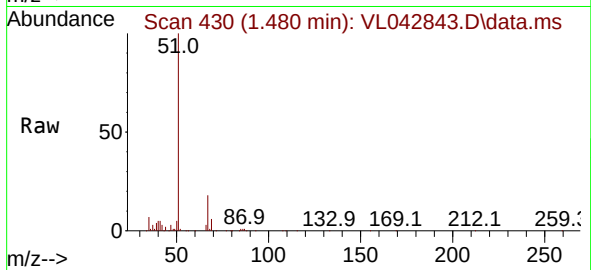
Tgt Ion: 85 Resp: 39443
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9





#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

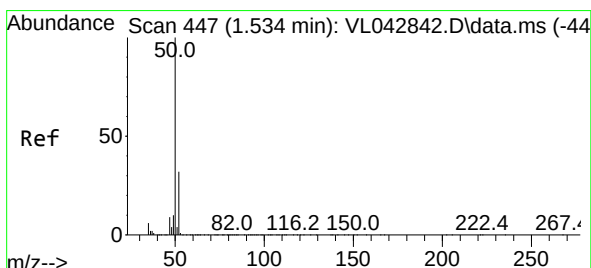
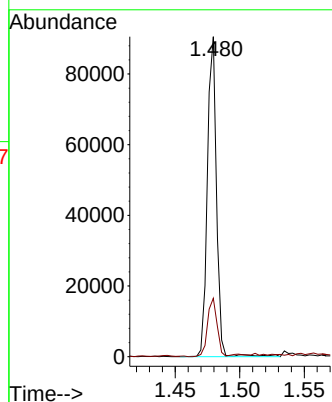
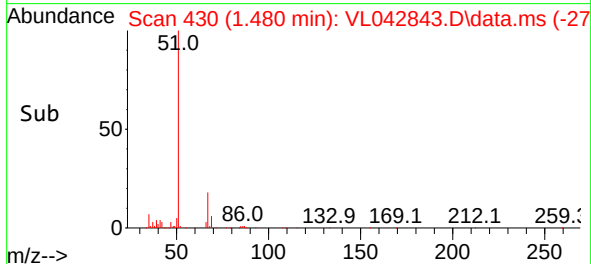
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



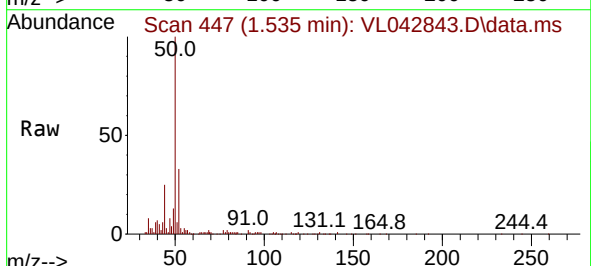
Tgt Ion: 51 Resp: 44759
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3

Manual Integrations
APPROVED

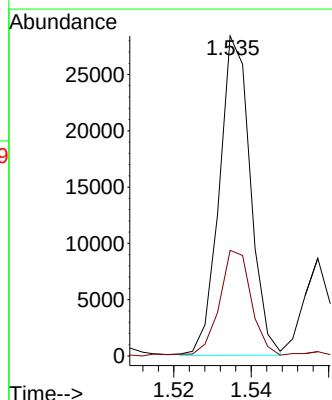
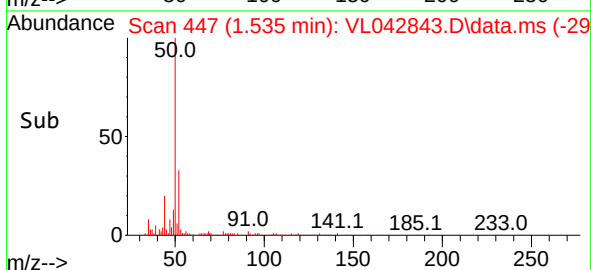
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

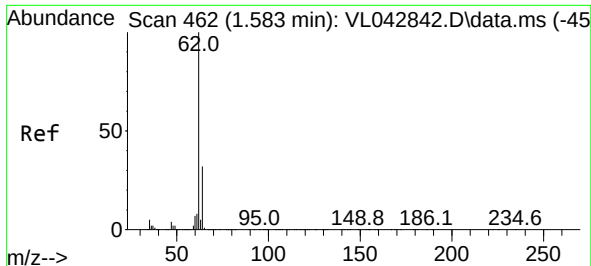


#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 50 Resp: 15826
Ion Ratio Lower Upper
50 100
52 33.0 25.9 38.9





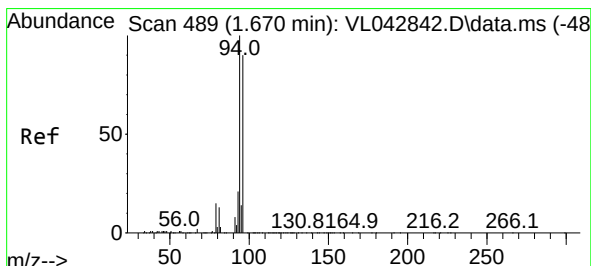
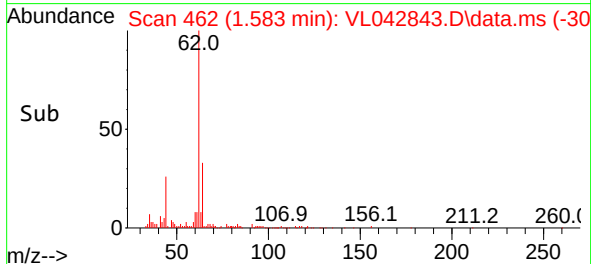
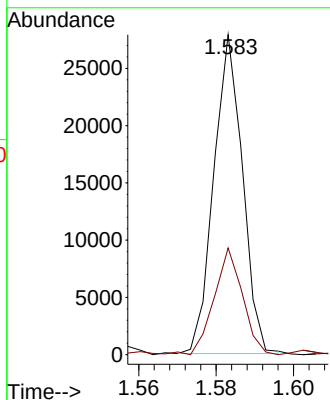
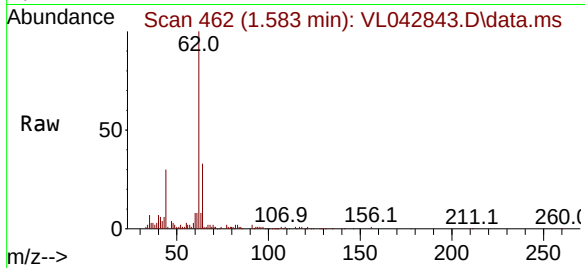
#5
 Vinyl Chloride
 Concen: 1.888 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 14358
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.2

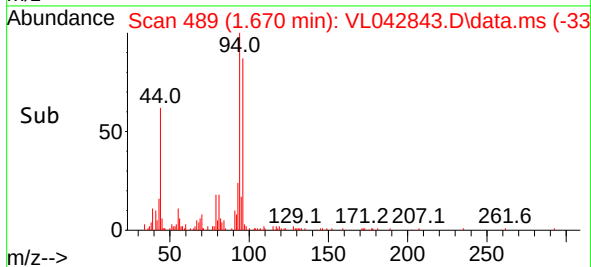
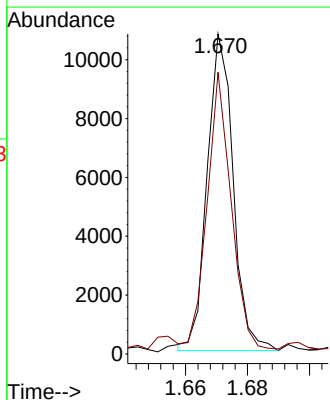
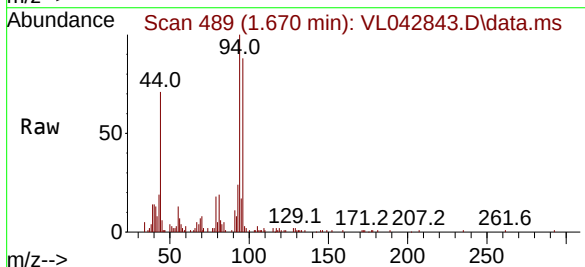
Manual Integrations
 APPROVED

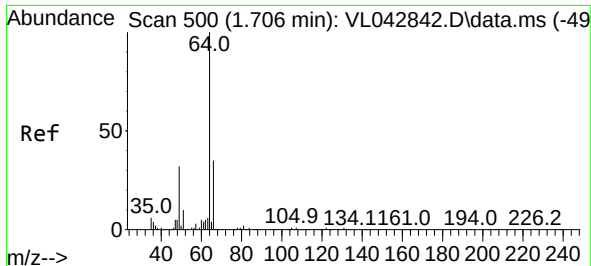
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#6
 Bromomethane
 Concen: 2.055 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

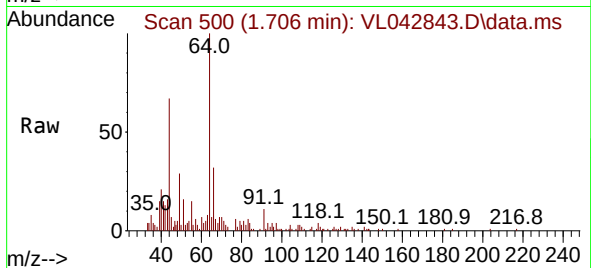
Tgt Ion: 94 Resp: 6248
 Ion Ratio Lower Upper
 94 100
 96 87.4 72.1 108.1





#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

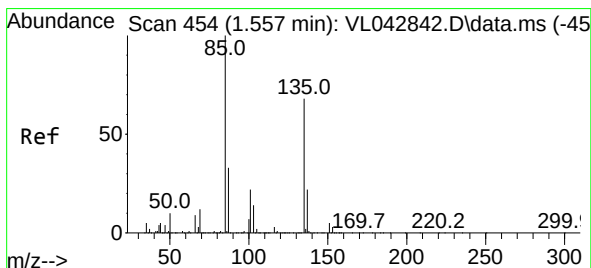
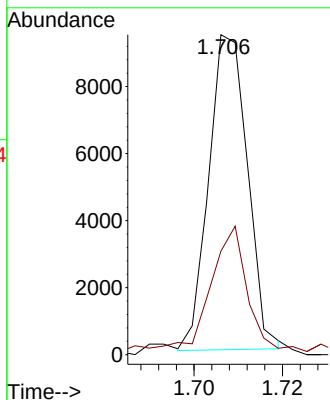
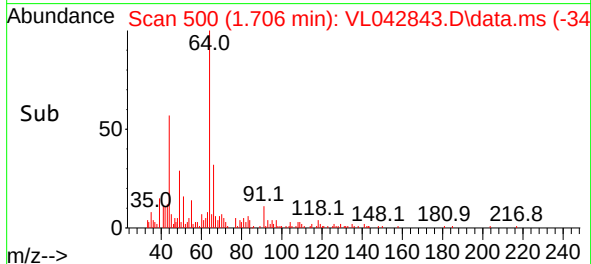
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



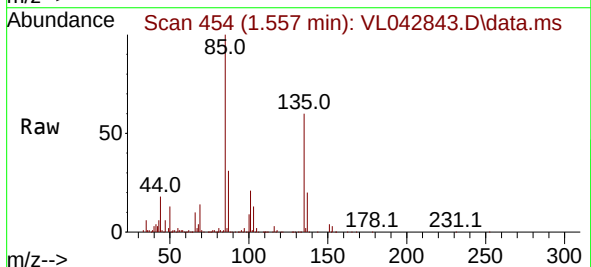
Tgt Ion: 64 Resp: 571
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8

Manual Integrations
APPROVED

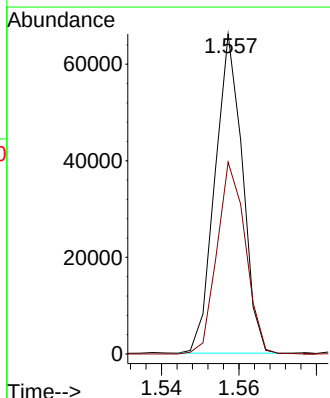
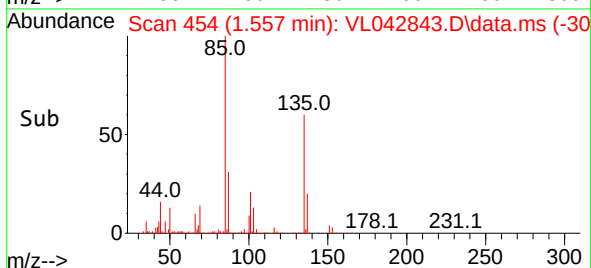
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

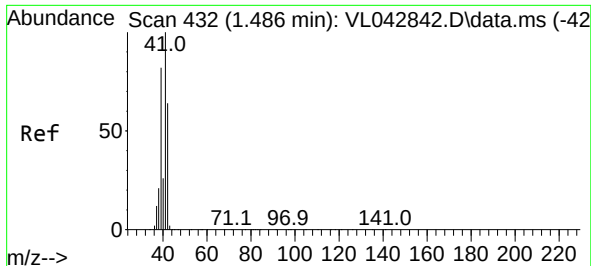


#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



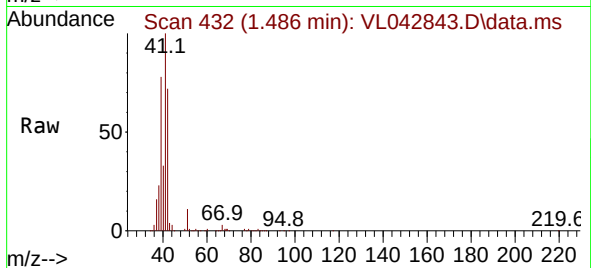
Tgt Ion: 85 Resp: 32496
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9
 Propene
 Concen: 2.045 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

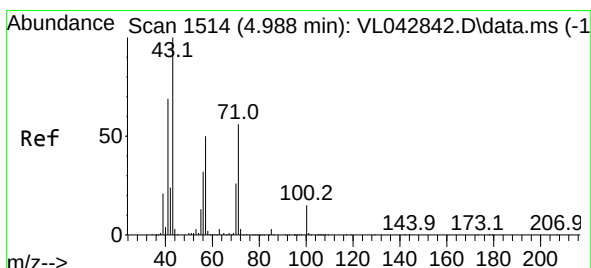
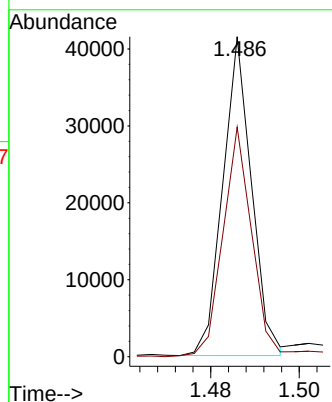
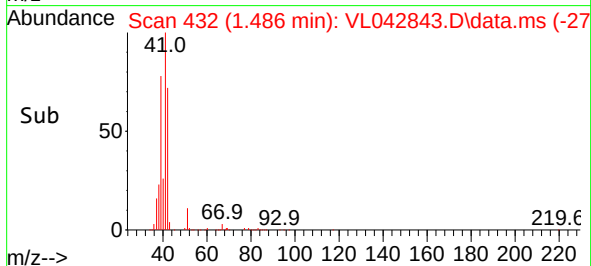
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



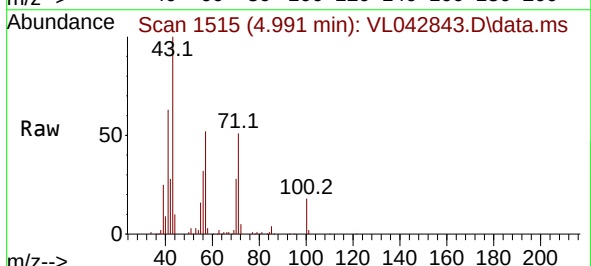
Tgt Ion: 41 Resp: 18678
 Ion Ratio Lower Upper
 41 100
 42 74.8 53.0 79.4

Manual Integrations
 APPROVED

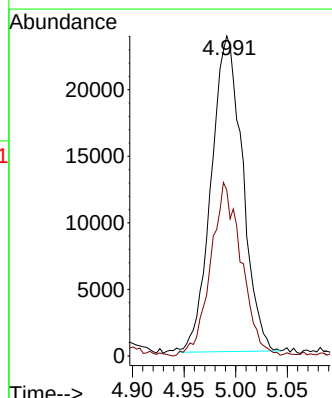
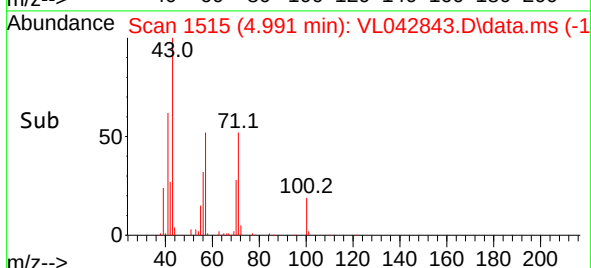
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

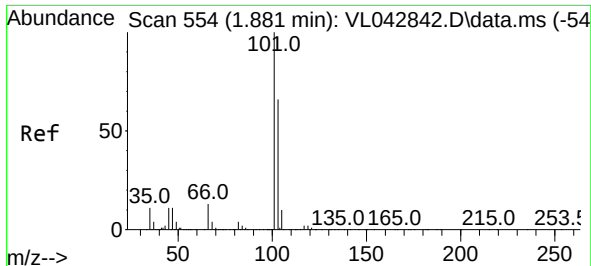


#10
 Heptane
 Concen: 2.050 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



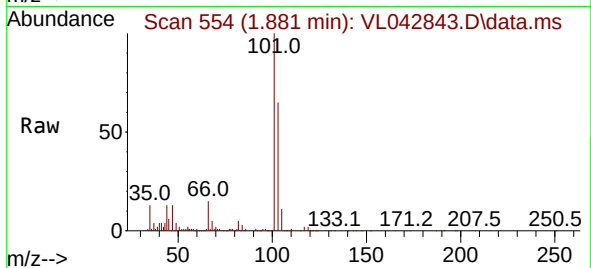
Tgt Ion: 43 Resp: 50062
 Ion Ratio Lower Upper
 43 100
 57 54.1 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 2.029 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

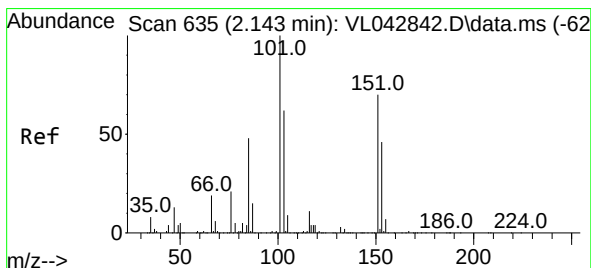
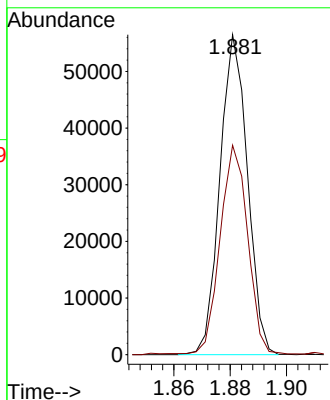
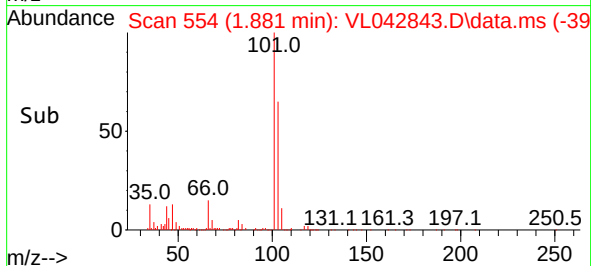
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



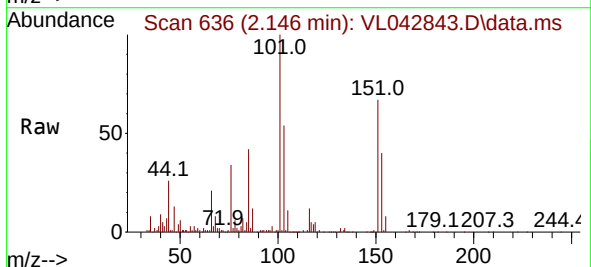
Tgt Ion:101 Resp: 38308
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.5 78.7

Manual Integrations
 APPROVED

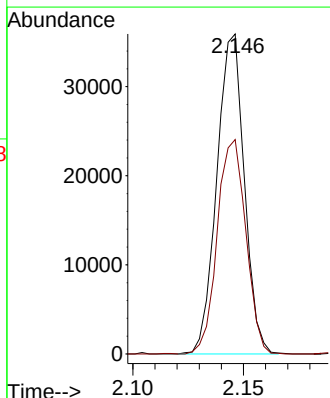
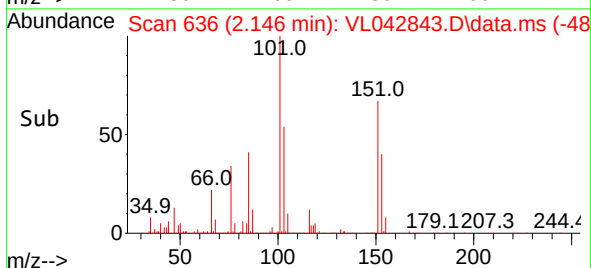
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

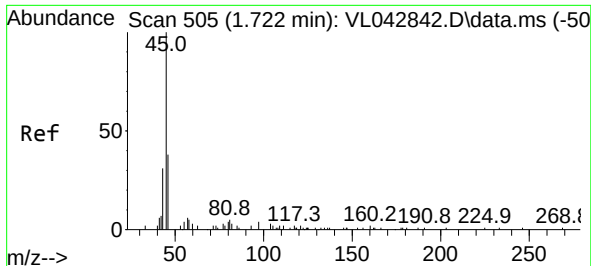


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.064 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



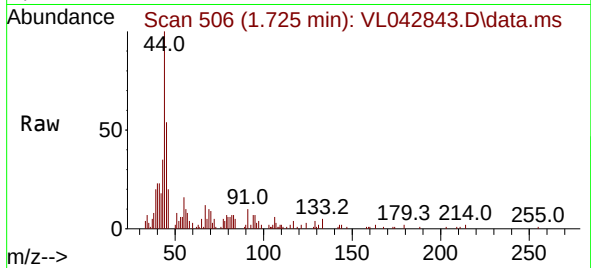
Tgt Ion:101 Resp: 31052
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6





#13
Ethanol
Concen: 2.008 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

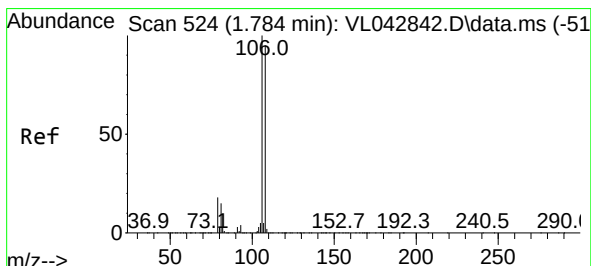
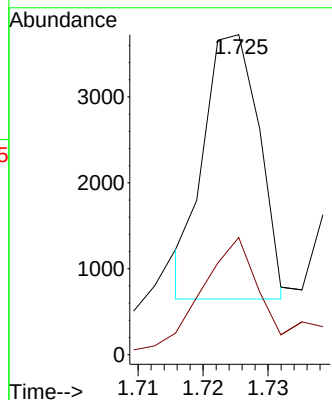
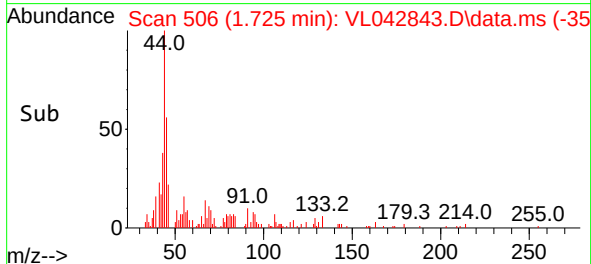
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



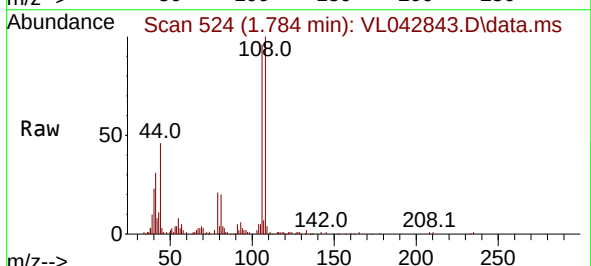
Tgt Ion: 45 Resp: 181
Ion Ratio Lower Upper
45 100
46 60.5 17.5 69.9

Manual Integrations
APPROVED

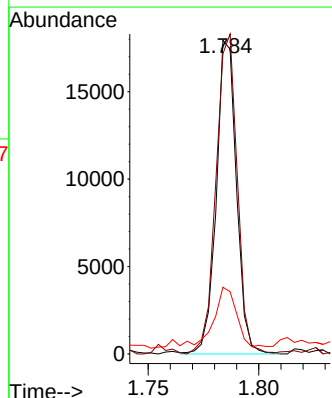
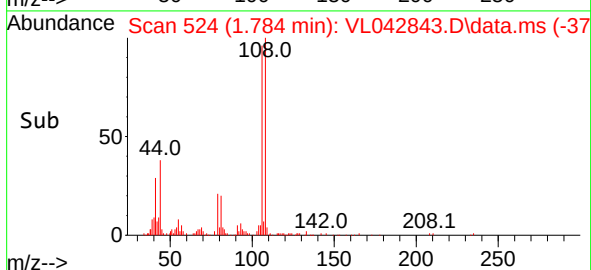
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

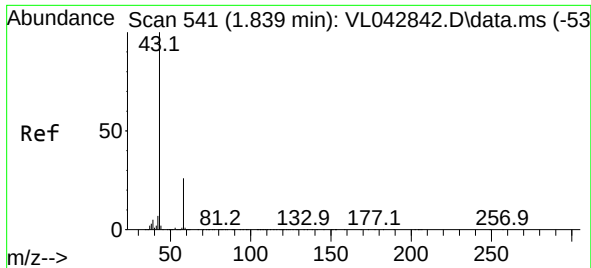


#14
Bromoethene
Concen: 2.089 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



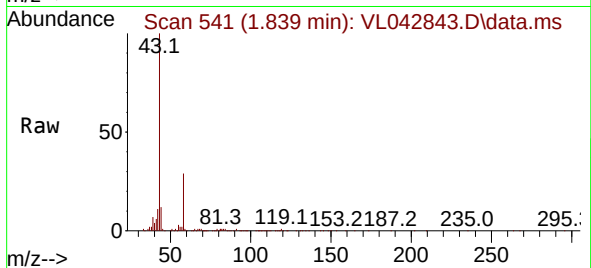
Tgt Ion:108 Resp: 11376
Ion Ratio Lower Upper
108 100
106 110.8 85.1 127.7
79 22.6 16.3 24.5





#15
Acetone
Concen: 2.231 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

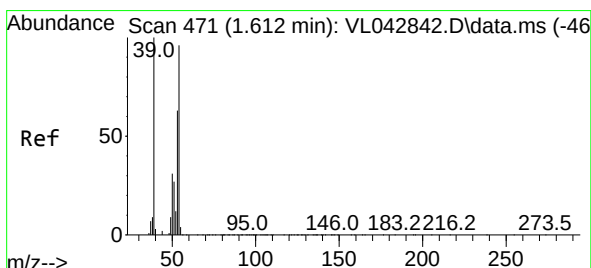
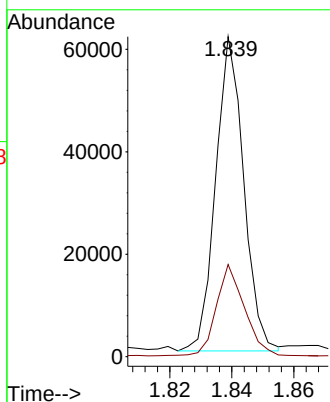
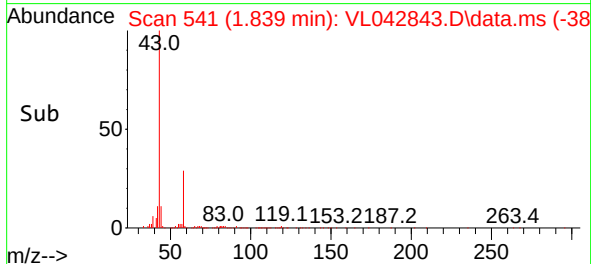
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



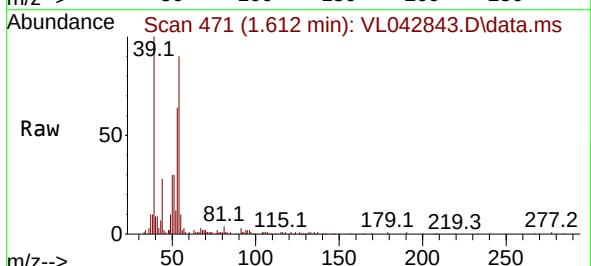
Tgt Ion: 43 Resp: 3853
Ion Ratio Lower Upper
43 100
58 30.3 22.4 33.6

Manual Integrations
APPROVED

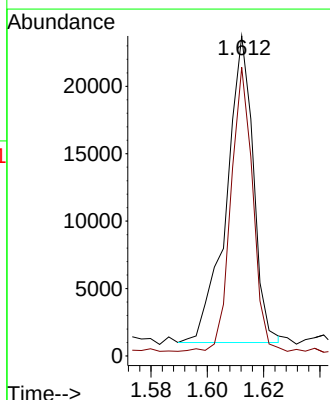
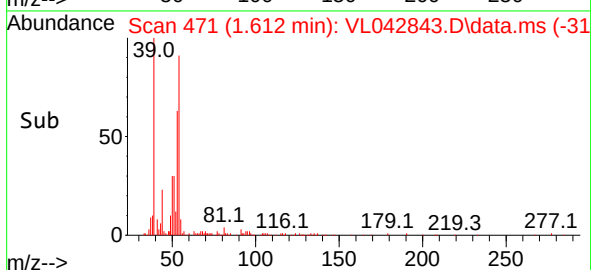
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

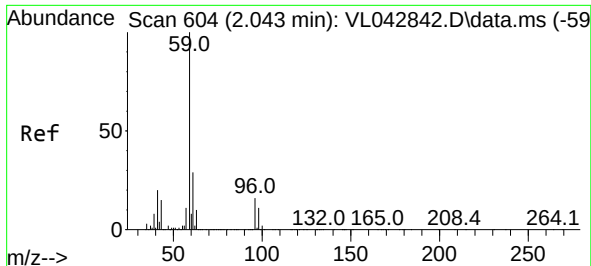


#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 39 Resp: 15122
Ion Ratio Lower Upper
39 100
54 80.8 63.6 95.4





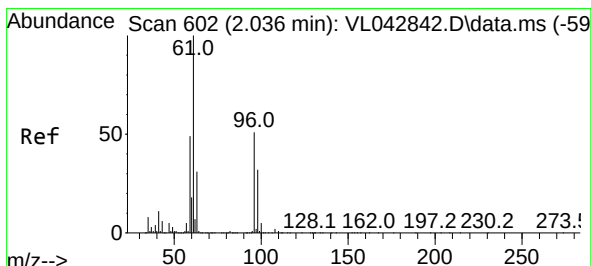
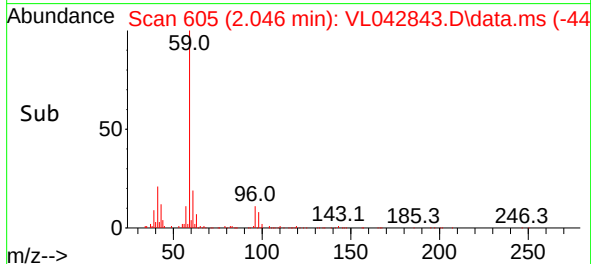
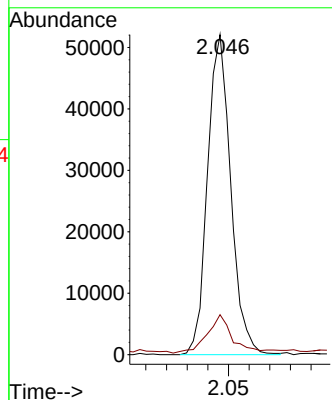
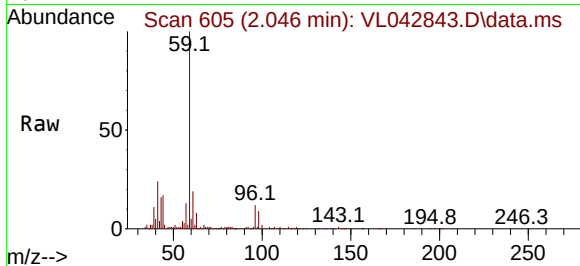
#17
tert-Butyl alcohol
Concen: 1.985 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 59 Resp: 40652
Ion Ratio Lower Upper
59 100
57 12.4 9.0 13.4

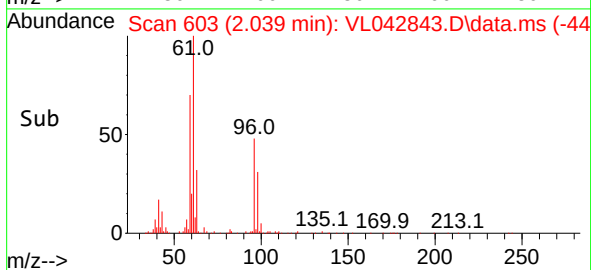
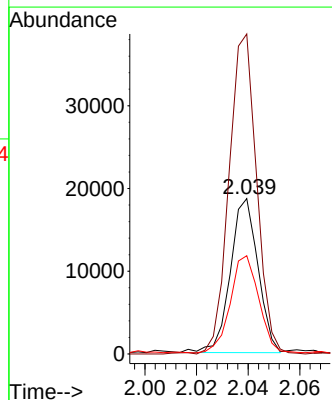
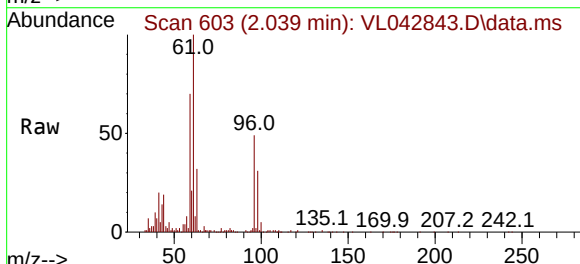
Manual Integrations
APPROVED

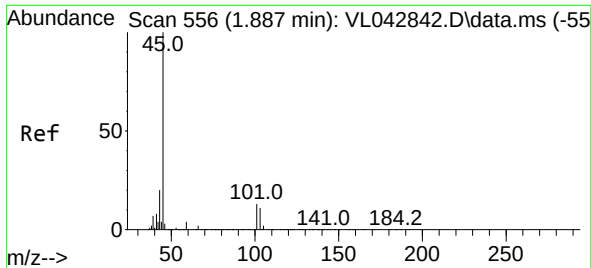
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 2.099 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 96 Resp: 13883
Ion Ratio Lower Upper
96 100
61 207.1 158.2 237.4
98 62.6 50.6 76.0





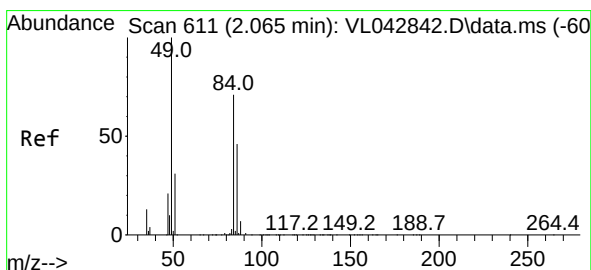
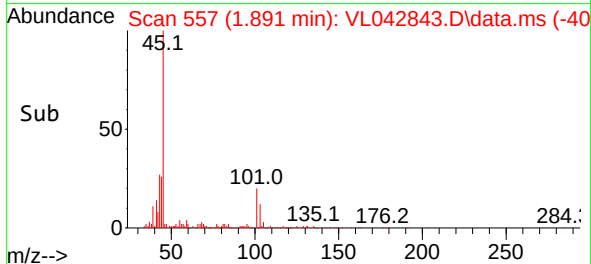
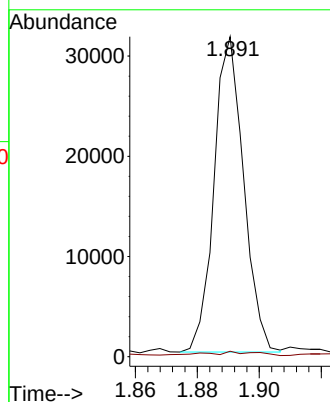
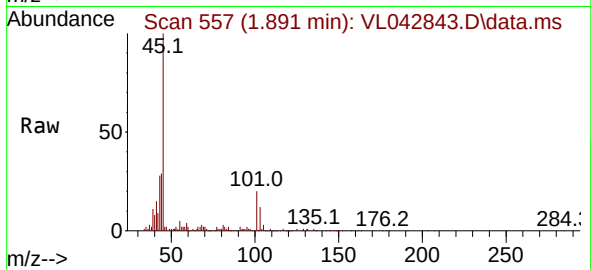
#19
Isopropyl Alcohol
Concen: 2.023 ppbv
RT: 1.891 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 20860
Ion Ratio Lower Upper
45 100
58 3.1 32.7 49.1

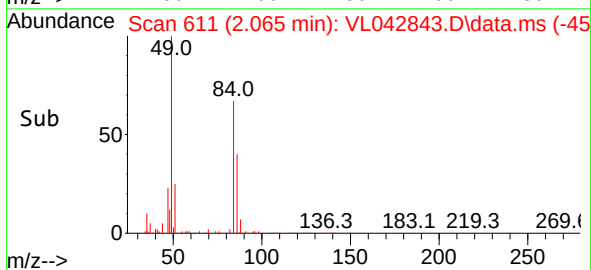
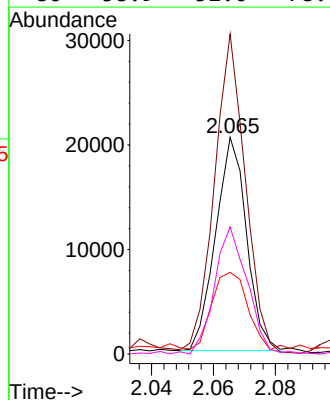
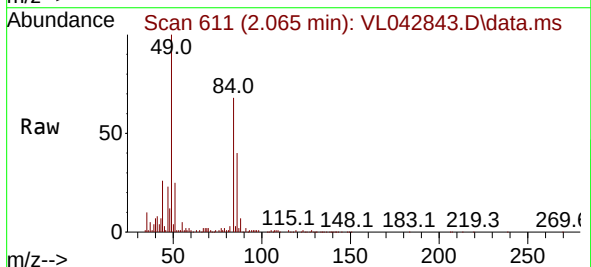
Manual Integrations
APPROVED

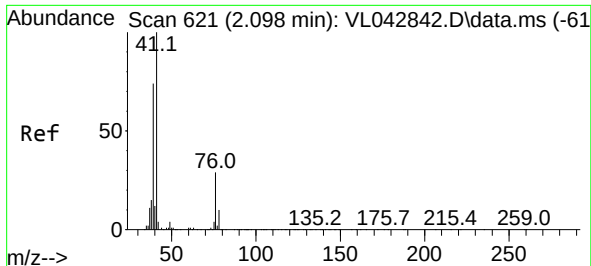
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 1.963 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

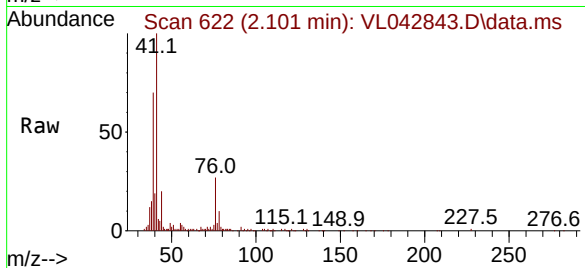
Tgt Ion: 84 Resp: 14204
Ion Ratio Lower Upper
84 100
49 148.1 112.3 168.5
51 35.3 36.0 54.0#
86 58.9 52.0 78.0





#21
 Allyl Chloride
 Concen: 2.021 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

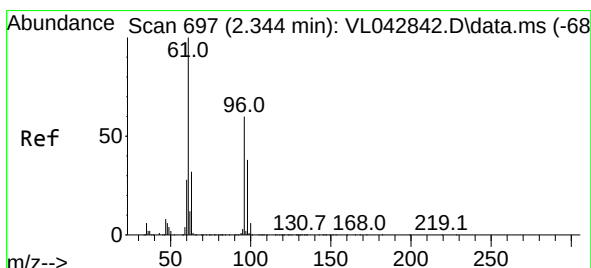
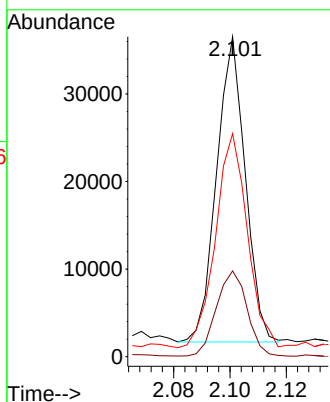
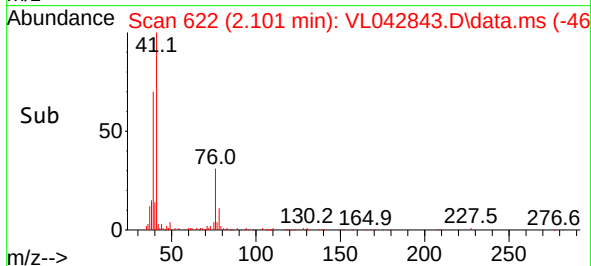
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



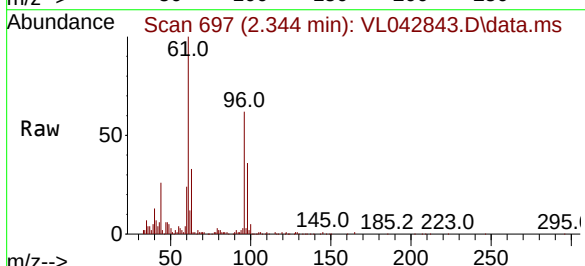
Tgt Ion: 41 Resp: 24662
 Ion Ratio Lower Upper
 41 100
 76 31.2 23.9 35.9
 39 76.0 57.8 86.6

Manual Integrations
 APPROVED

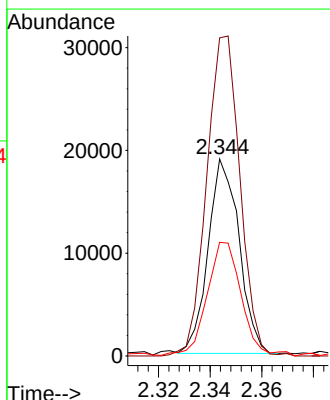
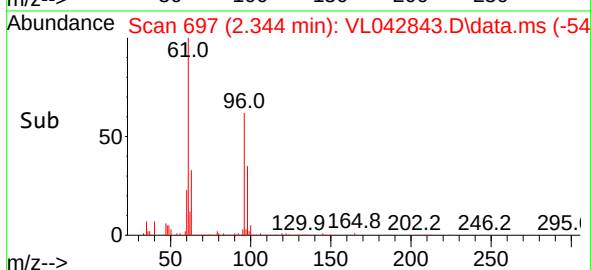
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

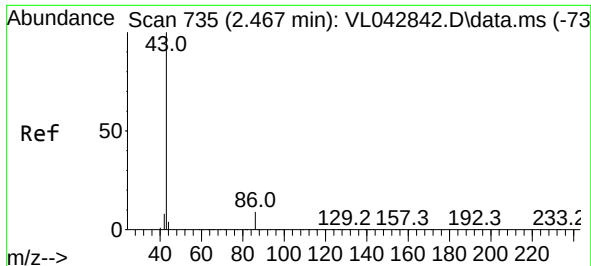


#22
 trans-1,2-Dichloroethene
 Concen: 2.132 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



Tgt Ion: 96 Resp: 15773
 Ion Ratio Lower Upper
 96 100
 61 162.8 132.6 199.0
 98 56.7 50.0 75.0





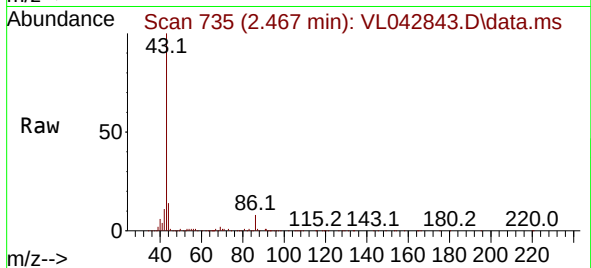
#23
 Vinyl Acetate
 Concen: 2.125 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

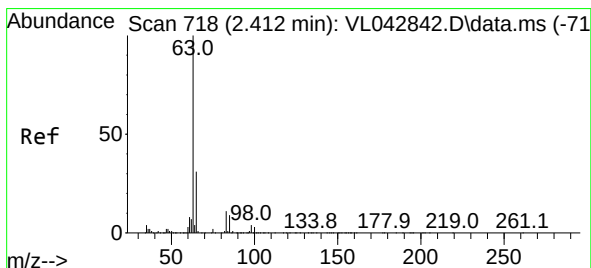
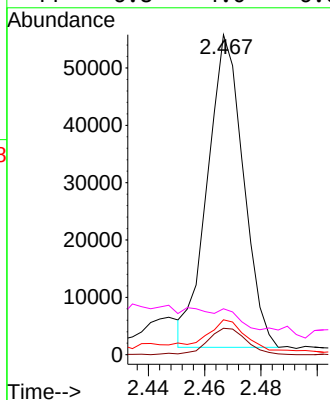
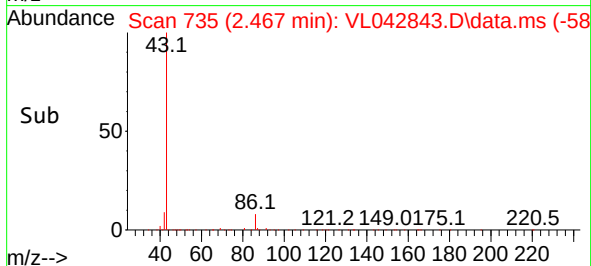


Tgt Ion: 43 Resp: 48269
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.6 9.8
 42 9.7 7.0 10.6
 44 6.8 4.0 6.0#

Manual Integrations

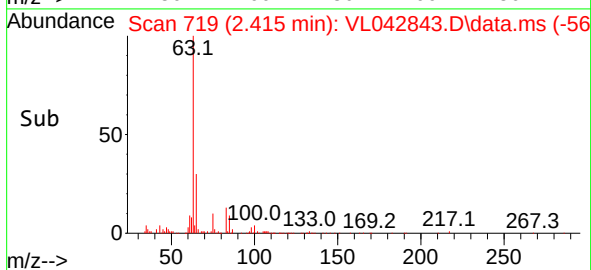
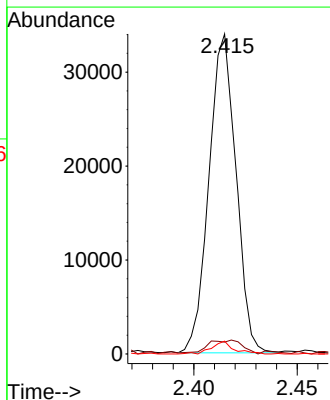
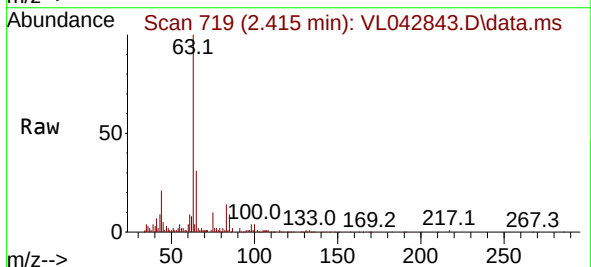
APPROVED

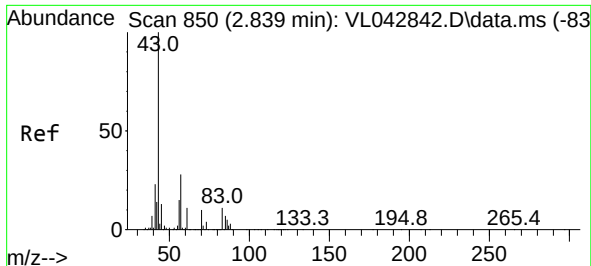
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#24
 1,1-Dichloroethane
 Concen: 2.024 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 63 Resp: 30931
 Ion Ratio Lower Upper
 63 100
 98 3.4 2.1 6.5
 100 4.0 1.7 5.1





#25

Ethyl Acetate

Concen: 2.077 ppbv

RT: 2.842 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

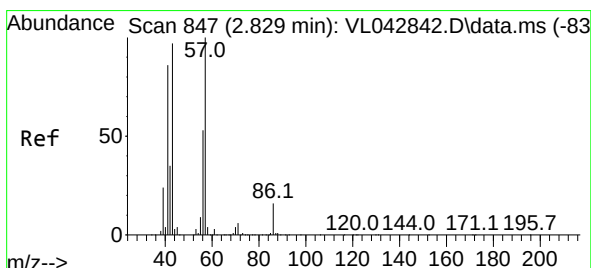
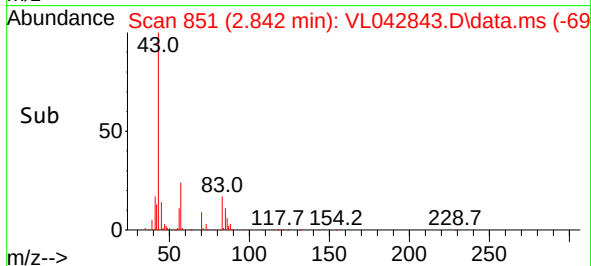
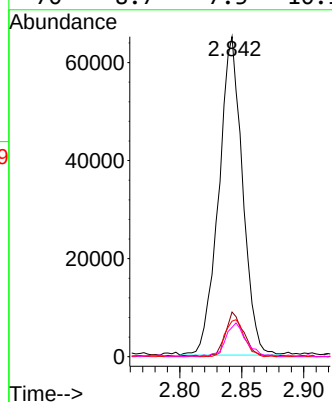
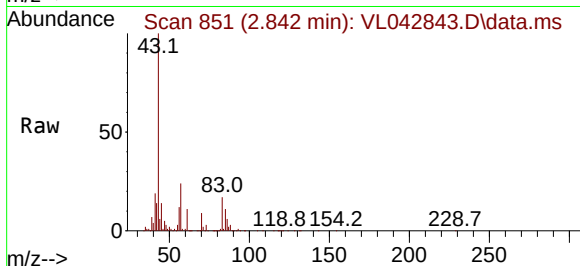
VSTDICC002

Tgt Ion: 43	Resp: 86804
Ion Ratio	Lower Upper
43 100	
45 11.4	8.1 12.1
61 9.4	7.4 11.2
70 8.7	7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26

Hexane

Concen: 2.060 ppbv

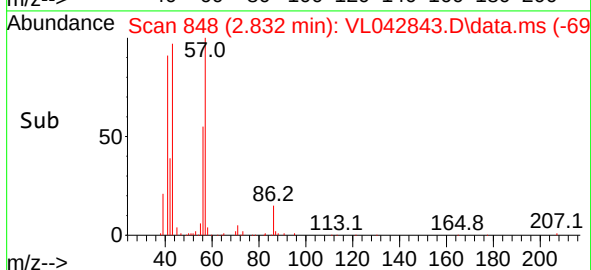
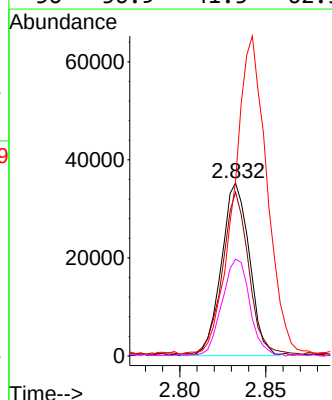
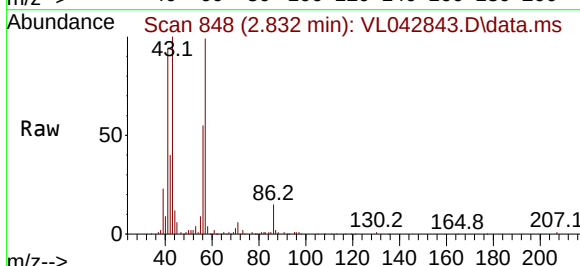
RT: 2.832 min Scan# 848

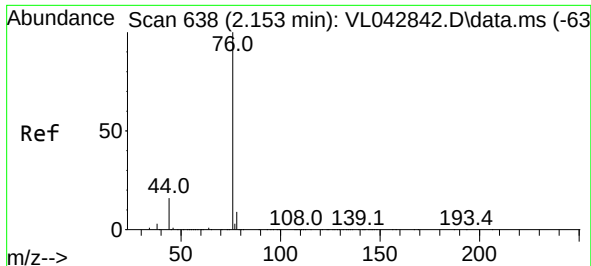
Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

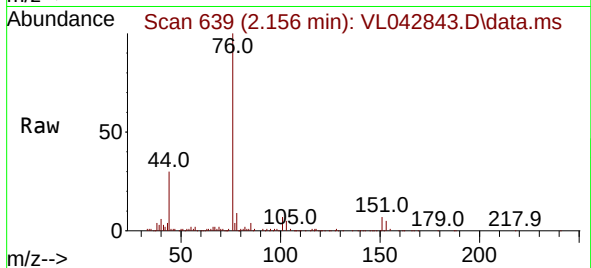
Tgt Ion: 57	Resp: 39735
Ion Ratio	Lower Upper
57 100	
41 90.3	68.6 103.0
43 219.4	168.5 252.7
56 56.9	41.5 62.3





#27
Carbon Disulfide
Concen: 2.102 ppbv
RT: 2.156 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

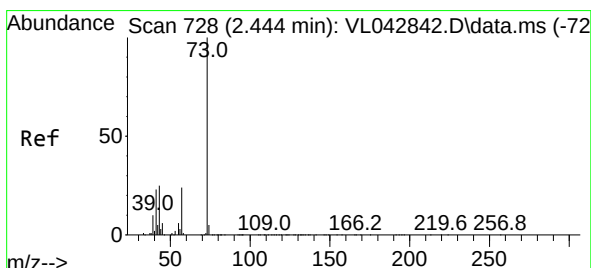
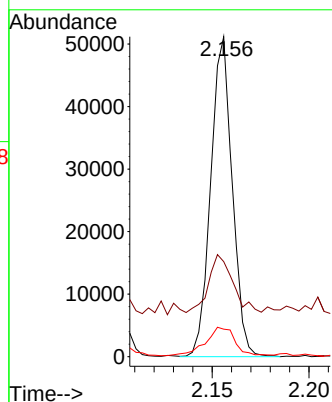
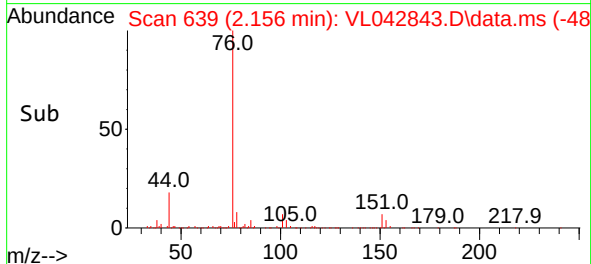
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



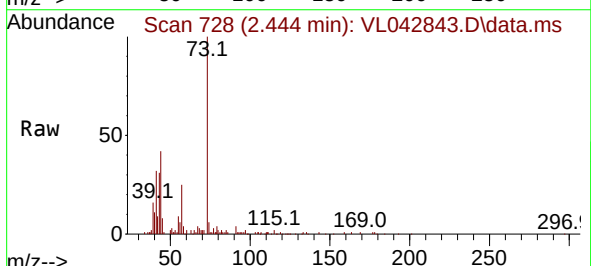
Tgt Ion: 76 Resp: 39460
Ion Ratio Lower Upper
76 100
44 81.0 15.9 23.9
78 13.8 9.5 14.3

Manual Integrations
APPROVED

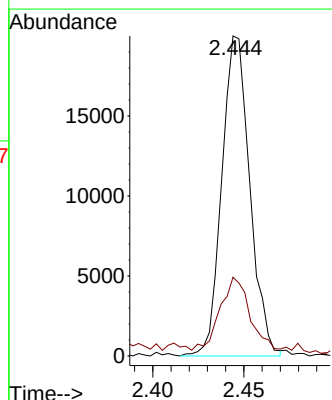
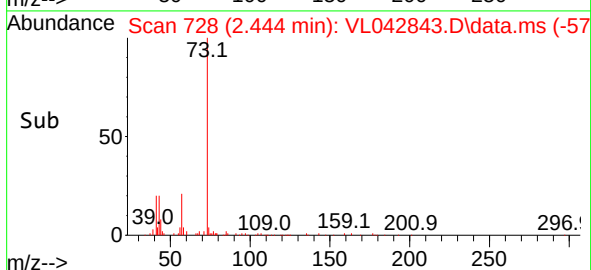
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

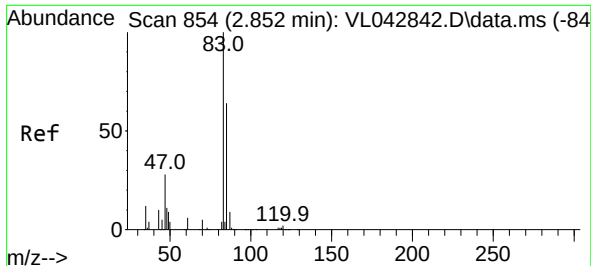


#28
Methyl tert-Butyl Ether
Concen: 2.169 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 73 Resp: 21341
Ion Ratio Lower Upper
73 100
57 24.8 21.6 32.4





#29

Chloroform

Concen: 2.053 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 5655

Ion Ratio Lower Upper

83 100

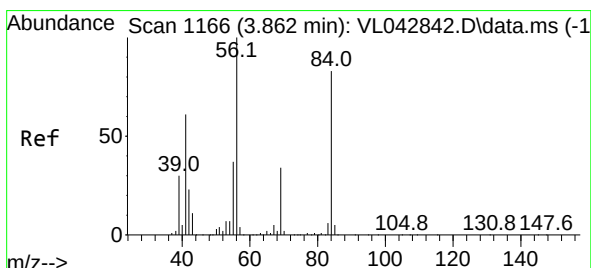
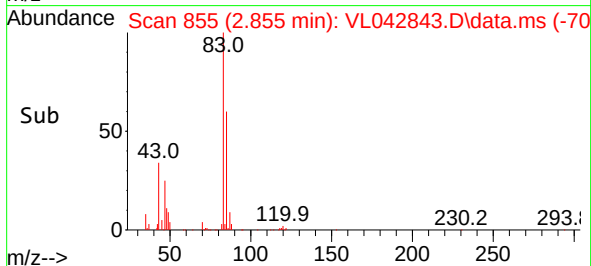
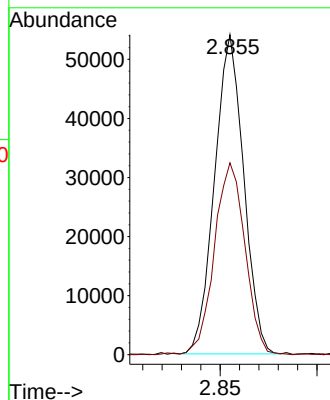
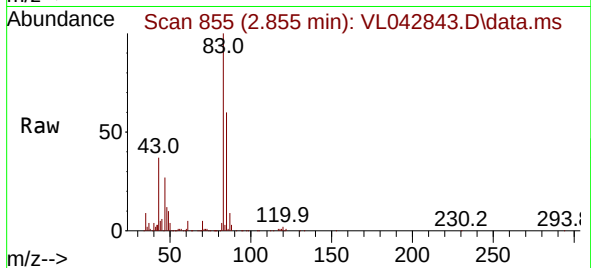
85 59.9 51.1 76.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

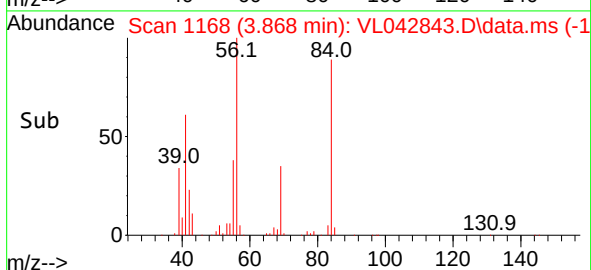
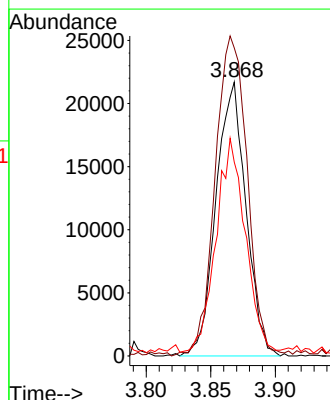
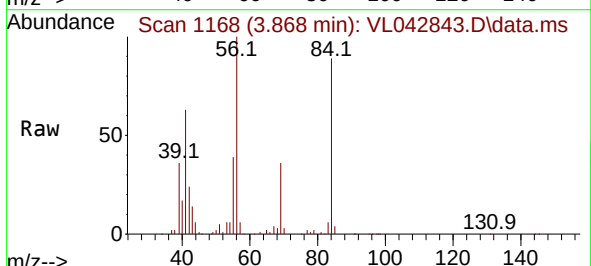
Tgt Ion: 84 Resp: 34992

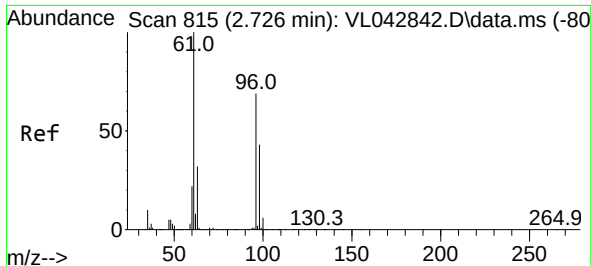
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

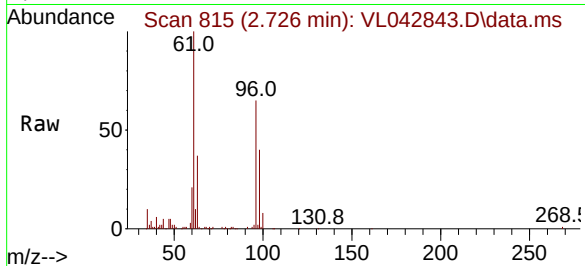
41 79.6 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 2.062 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

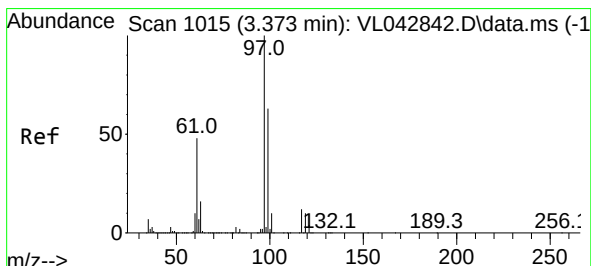
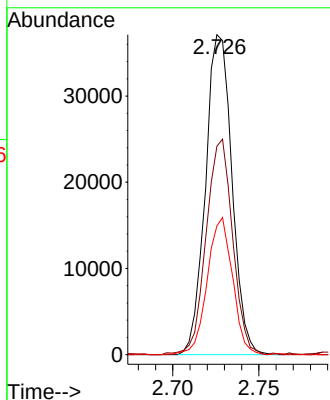
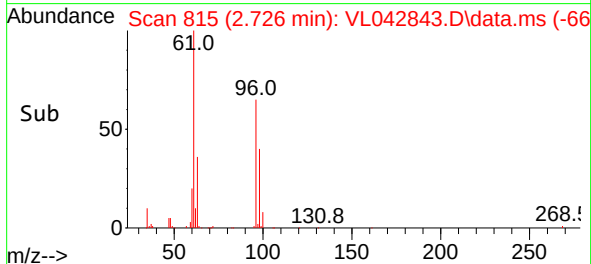
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



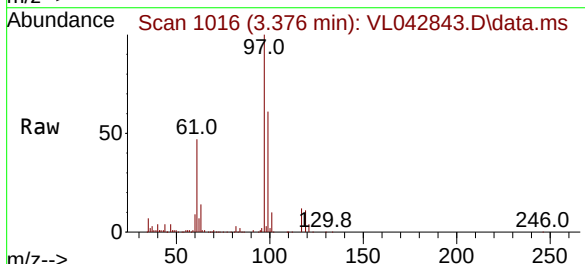
Tgt Ion: 61 Resp: 3978
 Ion Ratio Lower Upper
 61 100
 96 64.8 55.0 82.6
 98 39.9 34.3 51.5

Manual Integrations
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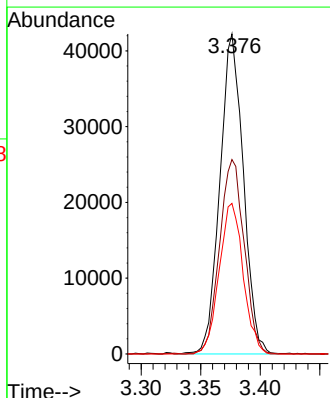
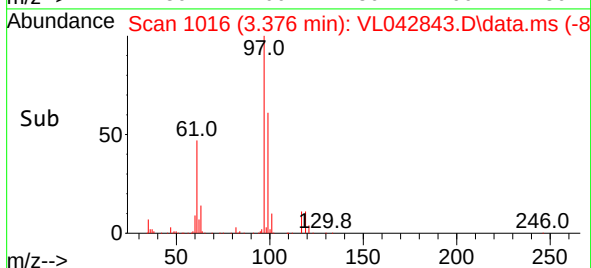
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

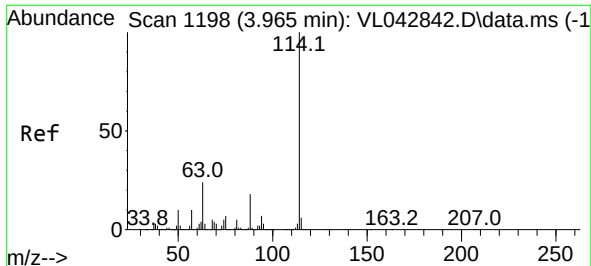


#32
 1,1,1-Trichloroethane
 Concen: 1.983 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



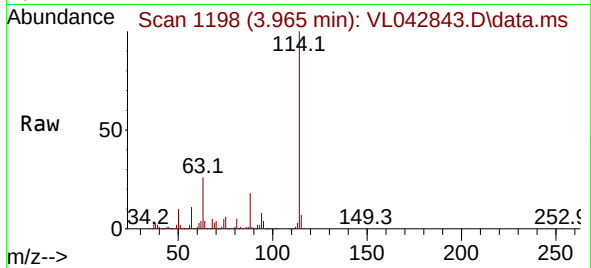
Tgt Ion: 97 Resp: 57837
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 48.1 38.0 57.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

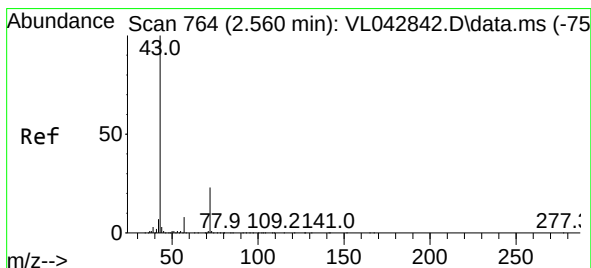
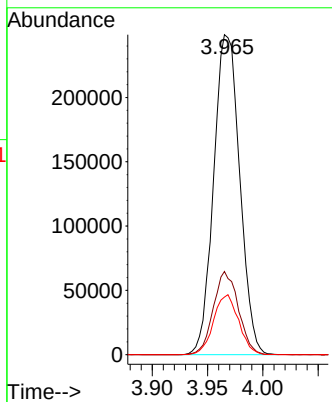
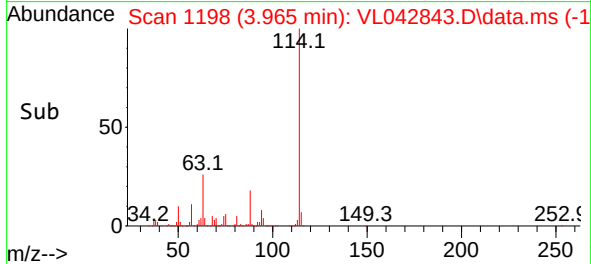
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



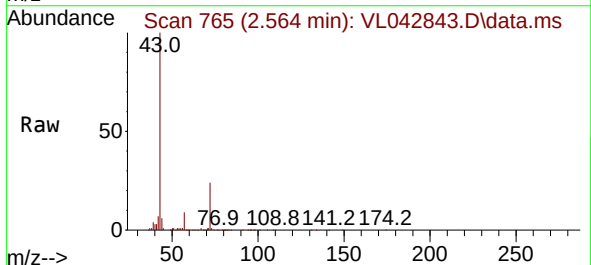
Tgt Ion:114 Resp: 408144
Ion Ratio Lower Upper
114 100
63 25.0 19.7 29.5
88 18.1 14.4 21.6

Manual Integrations
APPROVED

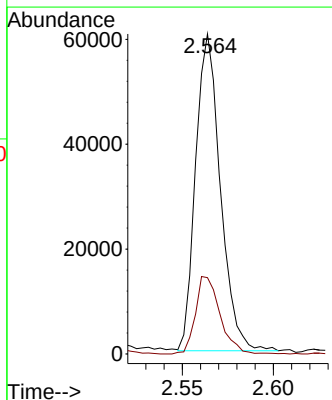
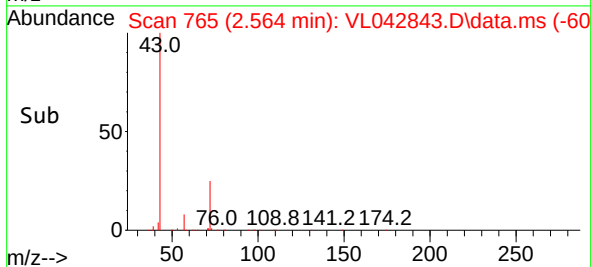
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

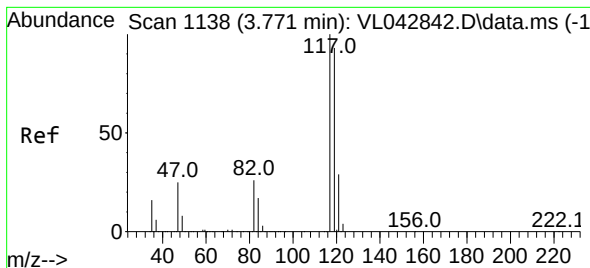


#34
2-Butanone
Concen: 2.075 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 43 Resp: 57172
Ion Ratio Lower Upper
43 100
72 24.3 18.6 28.0





#35

Carbon Tetrachloride

Concen: 2.007 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

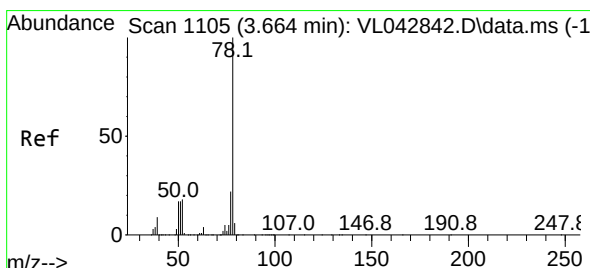
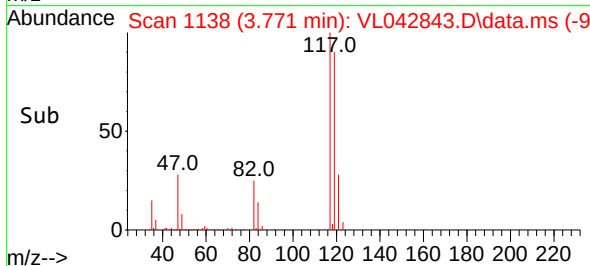
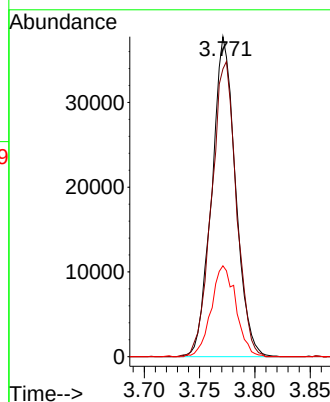
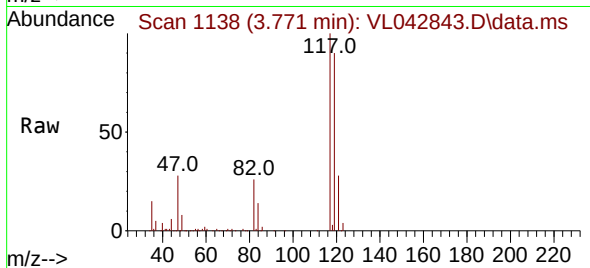
Tgt Ion: 117 Resp: 5645

Ion	Ratio	Lower	Upper
117	100		
119	89.9	74.7	112.1
121	28.4	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#36

Benzene

Concen: 2.067 ppbv

RT: 3.664 min Scan# 1105

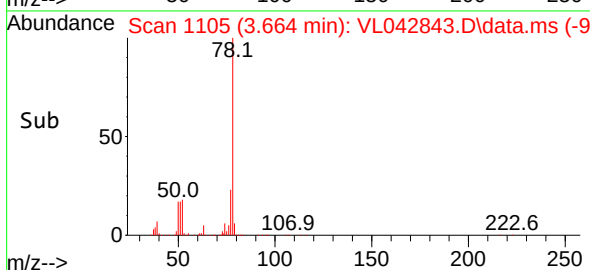
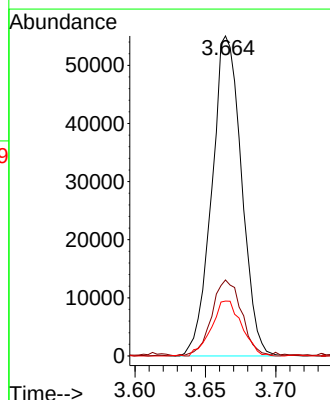
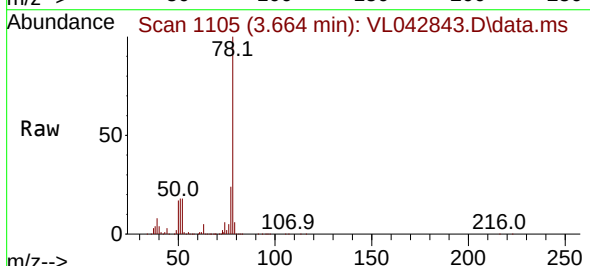
Delta R.T. 0.000 min

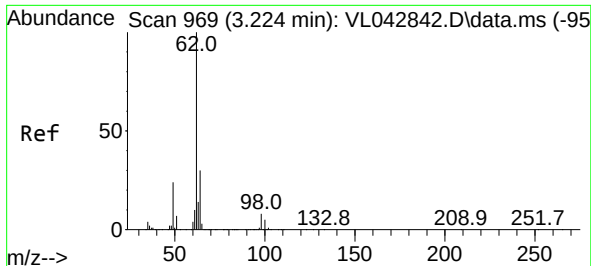
Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion: 78 Resp: 80781

Ion	Ratio	Lower	Upper
78	100		
77	23.5	17.7	26.5
50	17.2	13.9	20.9





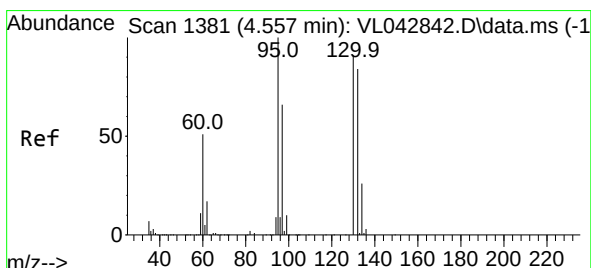
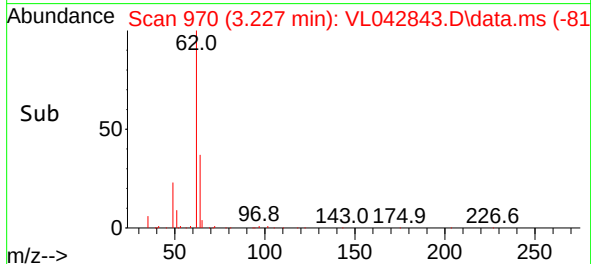
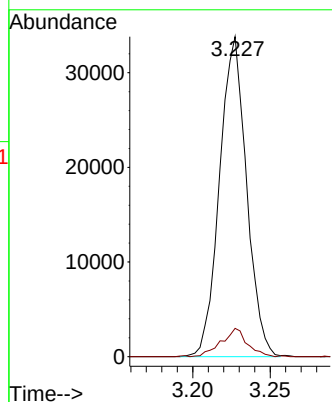
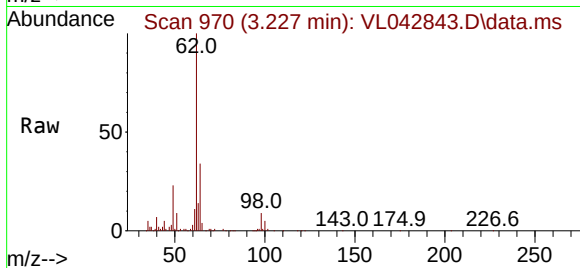
#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 41034
Ion Ratio Lower Upper
62 100
98 8.6 5.9 8.9

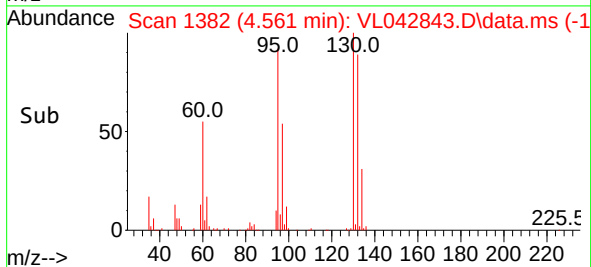
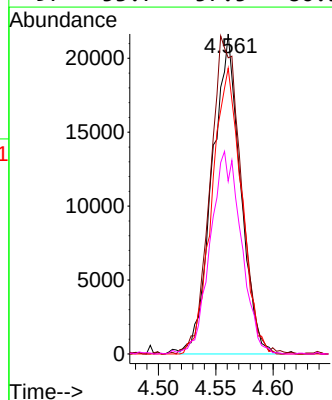
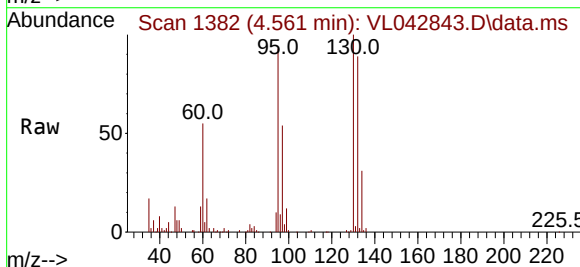
Manual Integrations
APPROVED

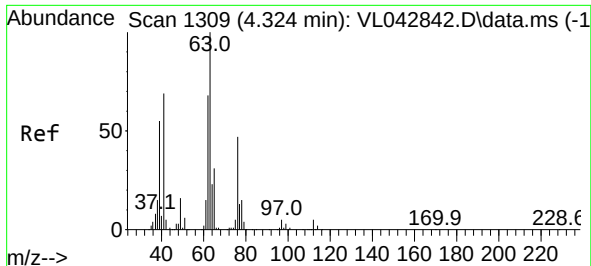
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 2.072 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:130 Resp: 36990
Ion Ratio Lower Upper
130 100
95 91.5 87.6 131.4
132 89.3 73.8 110.8
97 53.7 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 2.036 ppbv

RT: 4.328 min Scan# 1309

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

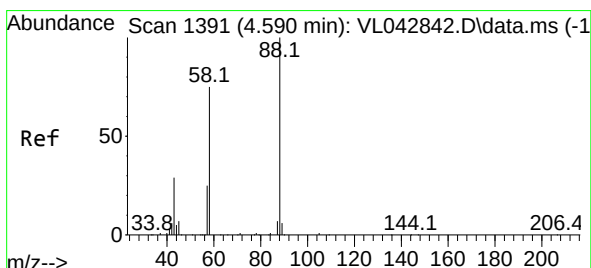
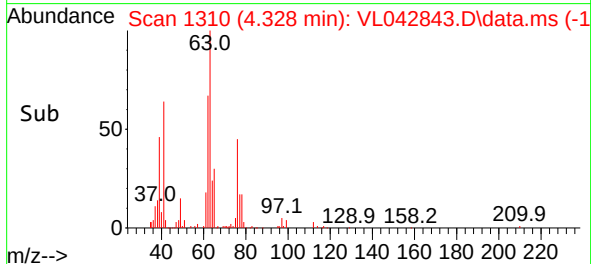
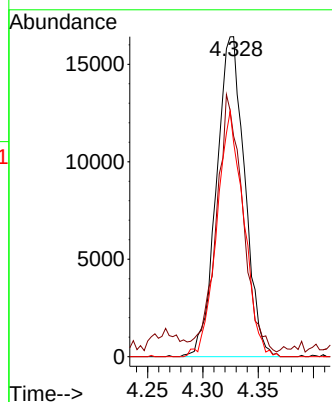
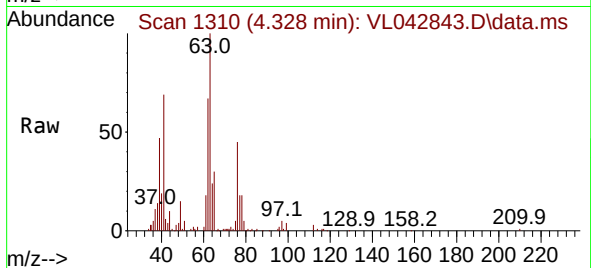
VSTDICC002

Tgt Ion: 63	Resp: 2905
Ion Ratio	Lower Upper
63 100	
41 66.8	55.0 82.4
62 66.9	54.4 81.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 2.022 ppbv m

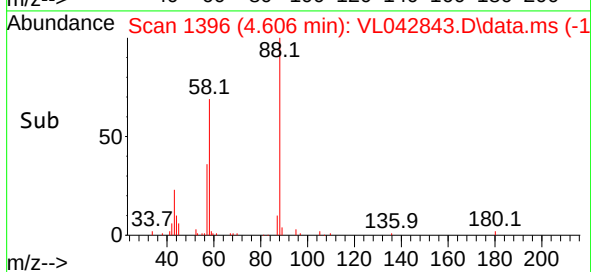
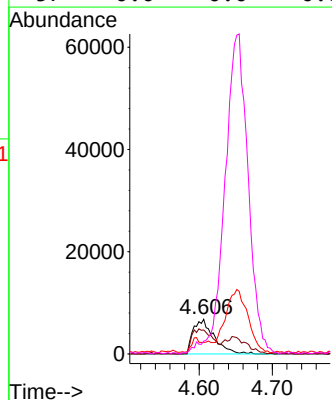
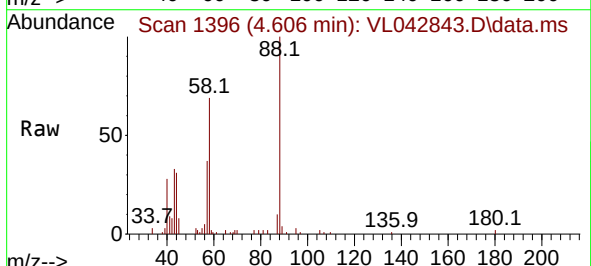
RT: 4.606 min Scan# 1396

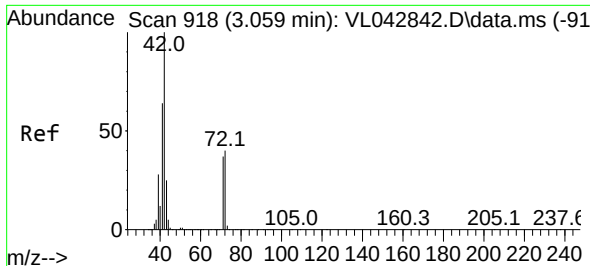
Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

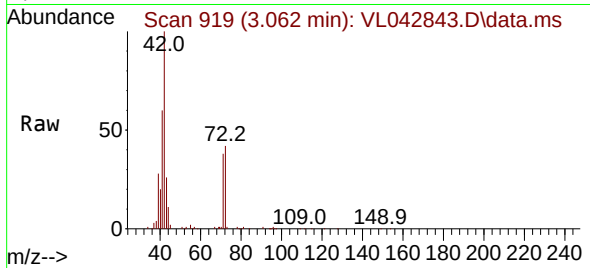
Tgt Ion: 88	Resp: 13510
Ion Ratio	Lower Upper
88 100	
58 69.3	53.8 80.6
43 0.0	22.8 34.2#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

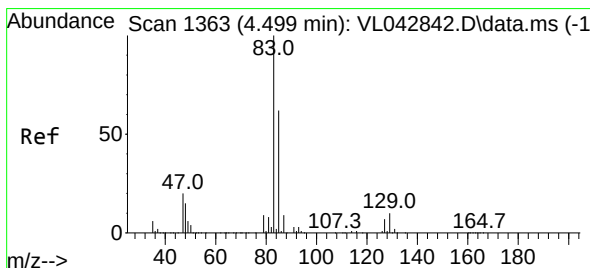
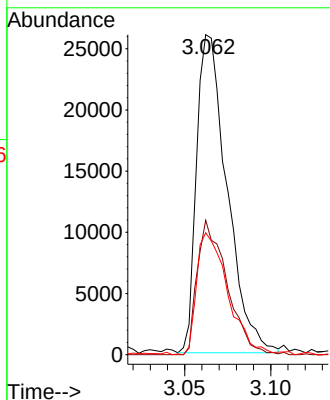
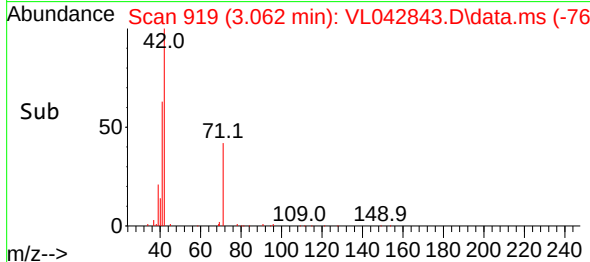
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 42 Resp: 31994
Ion Ratio Lower Upper
42 100
72 41.3 32.6 48.8
71 40.1 30.0 45.0

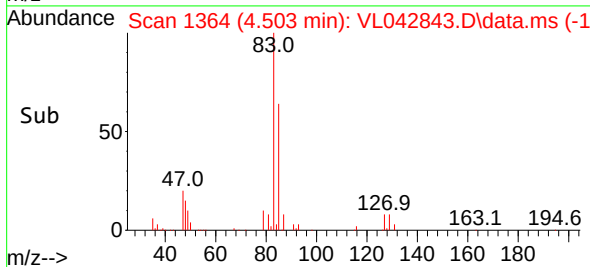
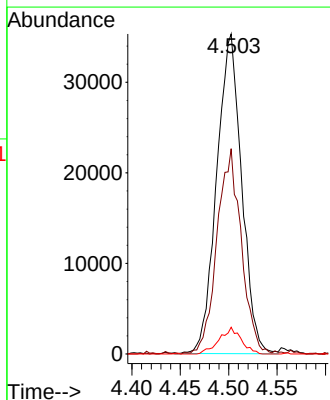
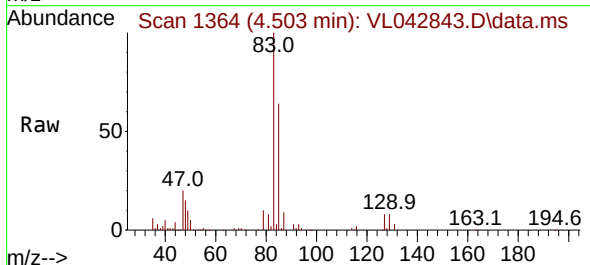
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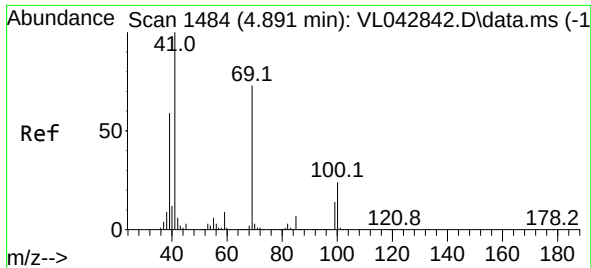
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 2.085 ppbv
RT: 4.503 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

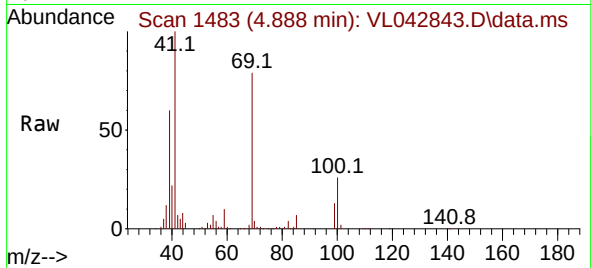
Tgt Ion: 83 Resp: 63436
Ion Ratio Lower Upper
83 100
85 64.2 49.8 74.8
127 8.4 5.8 8.6





#43
Methyl Methacrylate
Concen: 2.111 ppbv
RT: 4.888 min Scan# 1410
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

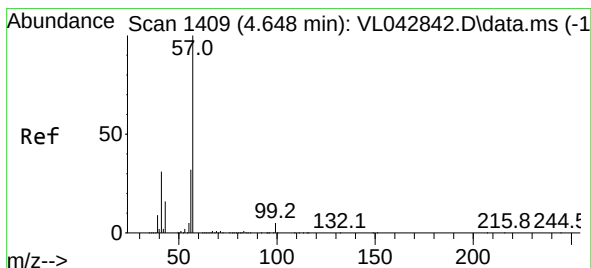
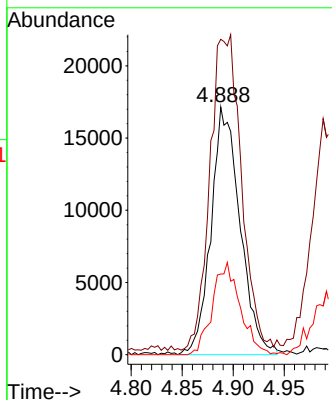
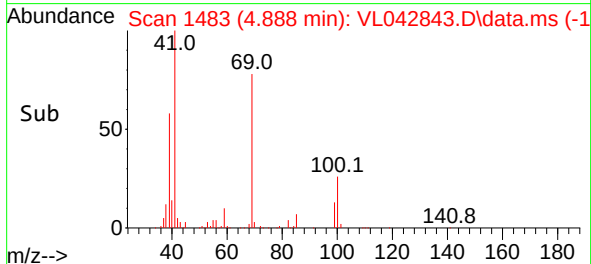
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 69 Resp: 3385
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 0.0 30.2 45.4

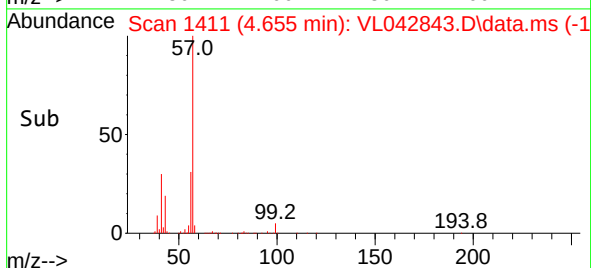
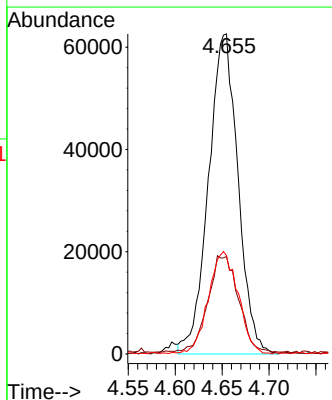
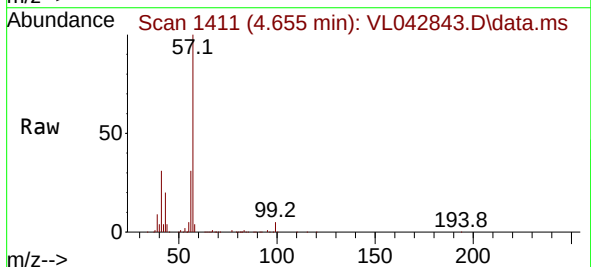
Manual Integrations
APPROVED

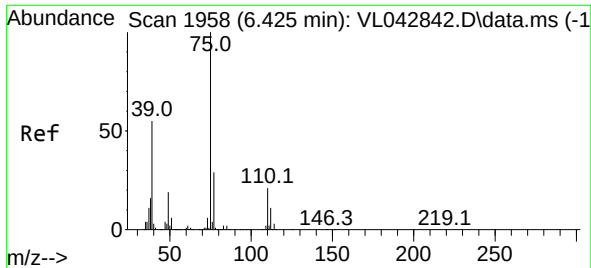
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

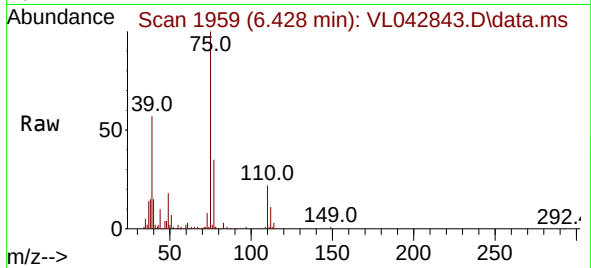
Tgt Ion: 57 Resp: 136794
Ion Ratio Lower Upper
57 100
41 32.5 24.8 37.2
56 32.6 25.5 38.3





#45
t-1,3-Dichloropropene
Concen: 2.048 ppbv
RT: 6.428 min Scan# 1958
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

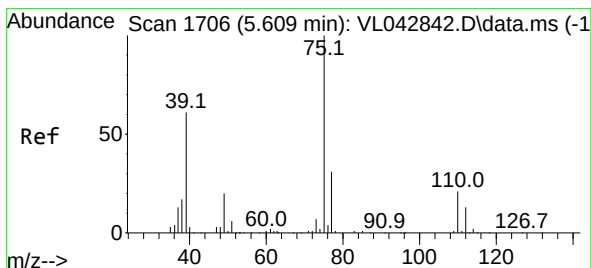
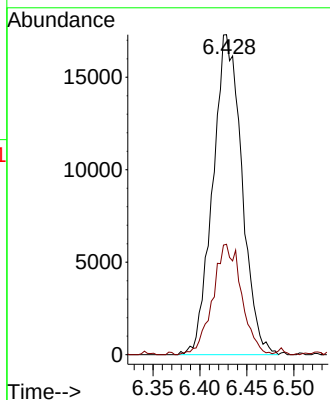
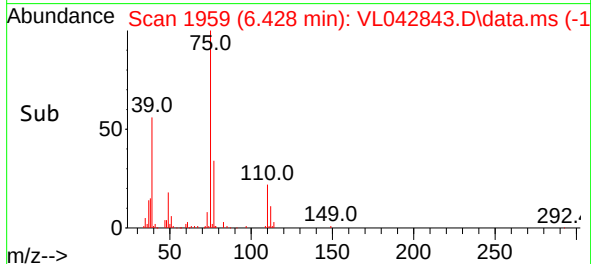
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 75 Resp: 37248
Ion Ratio Lower Upper
75 100
77 35.2 23.8 35.6

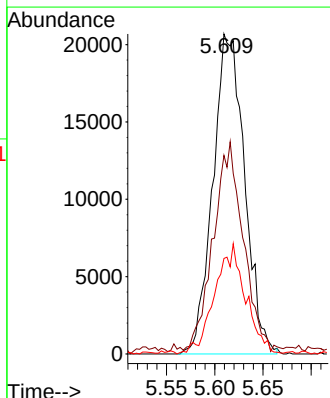
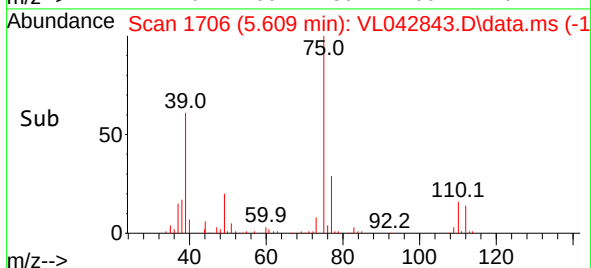
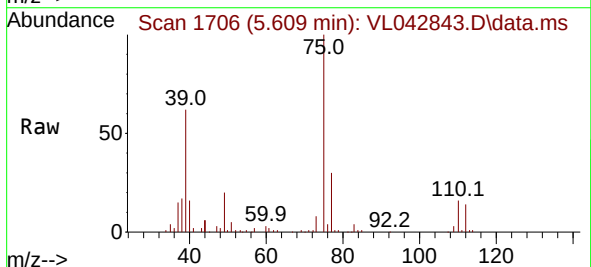
Manual Integrations
APPROVED

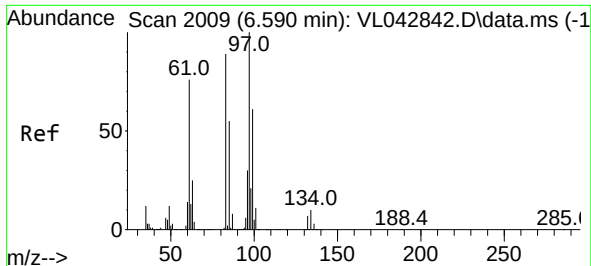
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#46
cis-1,3-Dichloropropene
Concen: 2.067 ppbv m
RT: 5.609 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 75 Resp: 47201
Ion Ratio Lower Upper
75 100
39 62.1 48.9 73.3
77 29.8 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 2.083 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

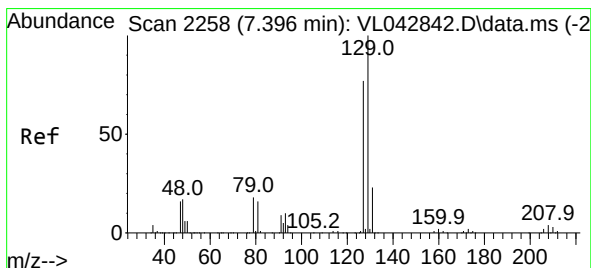
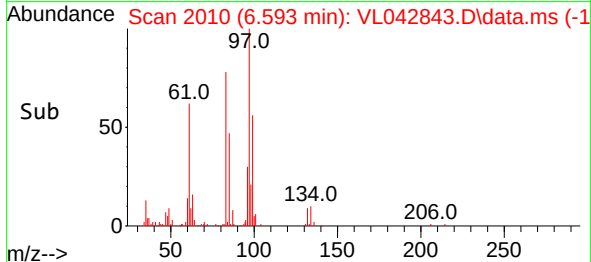
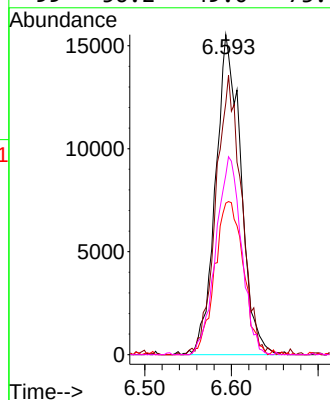
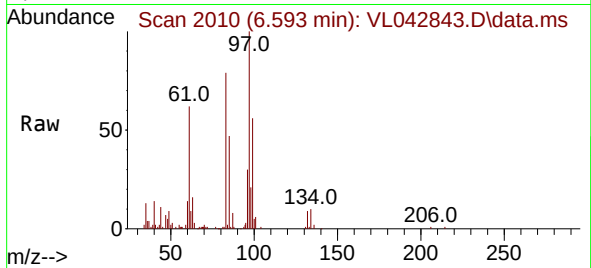
Tgt Ion: 97	Resp: 3147
Ion Ratio	Lower Upper
97 100	
83 78.7	71.0 106.4
85 47.3	43.6 65.4
99 56.2	49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 2.109 ppbv

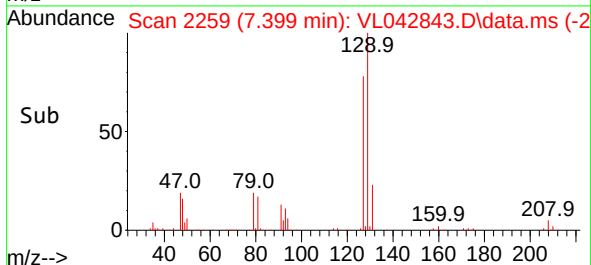
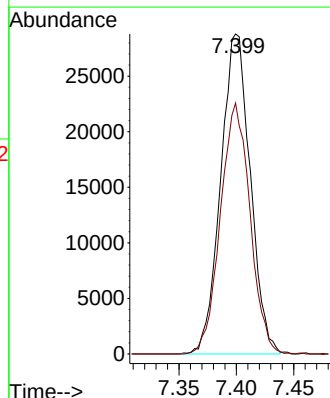
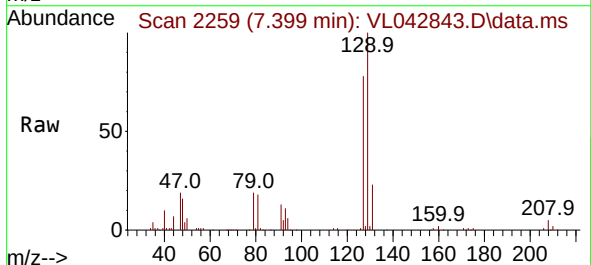
RT: 7.399 min Scan# 2259

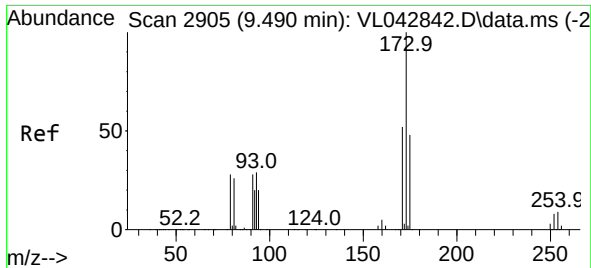
Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

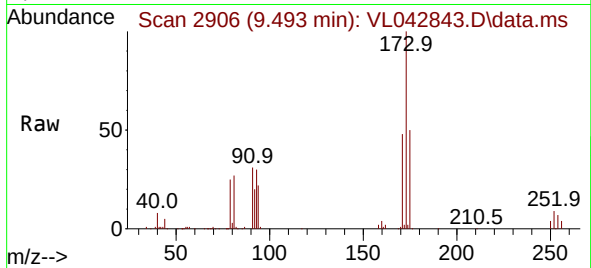
Tgt Ion:129	Resp: 51620
Ion Ratio	Lower Upper
129 100	
127 78.4	39.4 118.2





#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

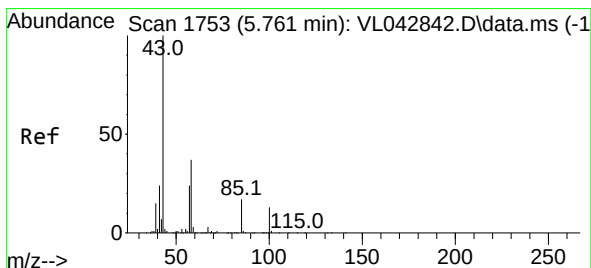
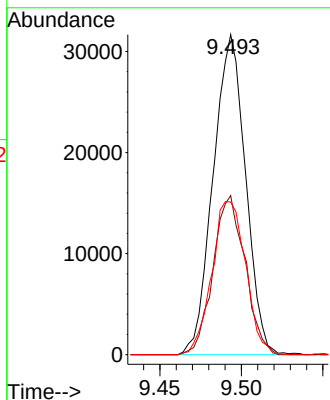
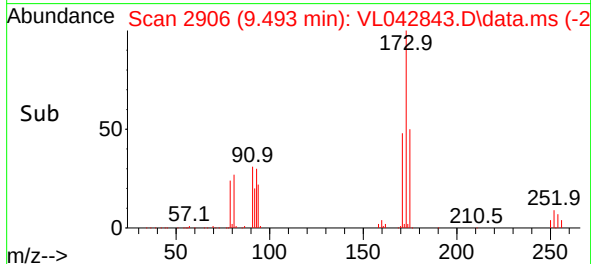
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



Tgt Ion: 173 Resp: 43662
Ion Ratio Lower Upper
173 100
175 49.1 39.2 58.8
171 50.0 41.3 61.9

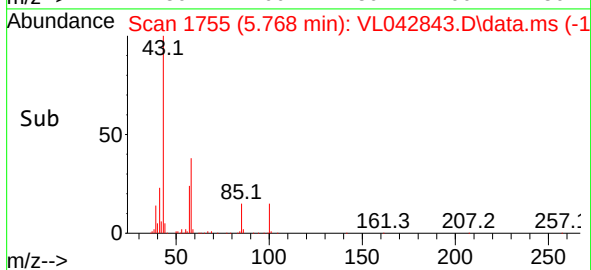
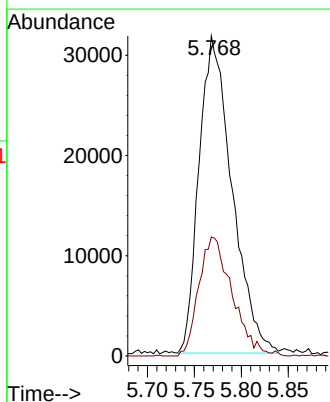
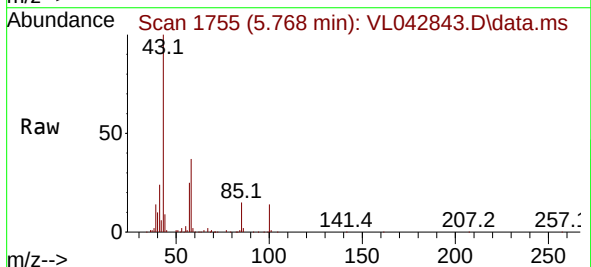
Manual Integrations
APPROVED

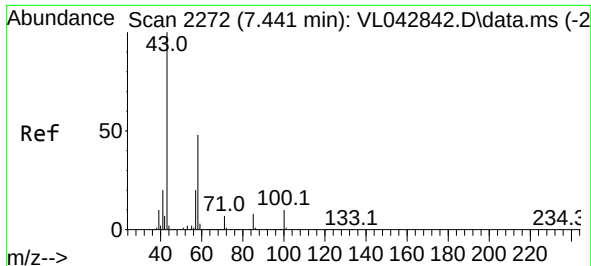
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

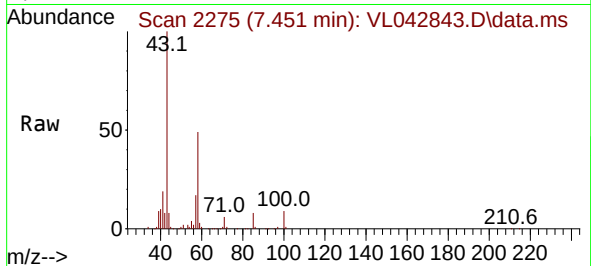
Tgt Ion: 43 Resp: 77225
Ion Ratio Lower Upper
43 100
58 38.1 29.8 44.8





#51
2-Hexanone
Concen: 2.088 ppbv
RT: 7.451 min Scan# 2110
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

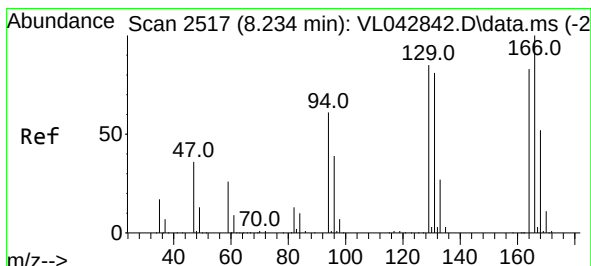
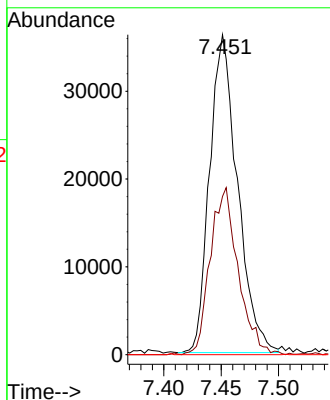
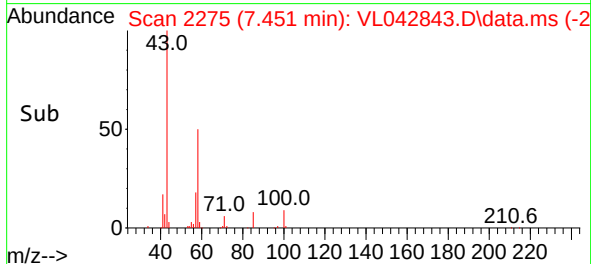
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 61210
Ion Ratio Lower Upper
43 100
58 52.9 41.0 61.6
98 0.0 0.1 0.1

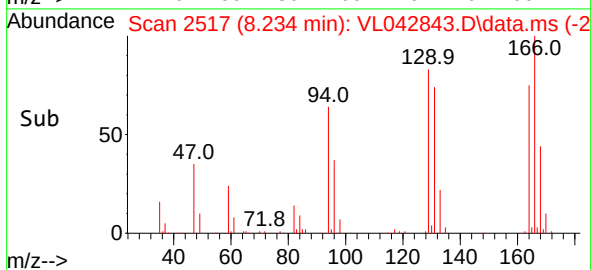
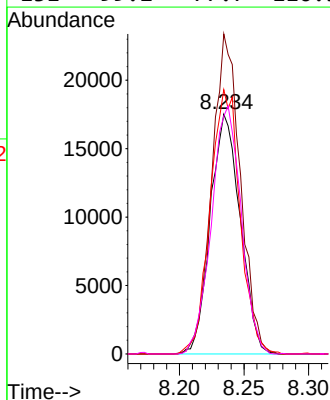
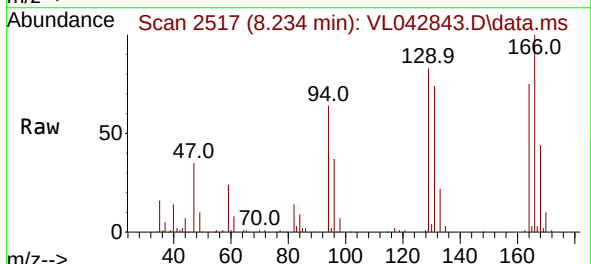
Manual Integrations
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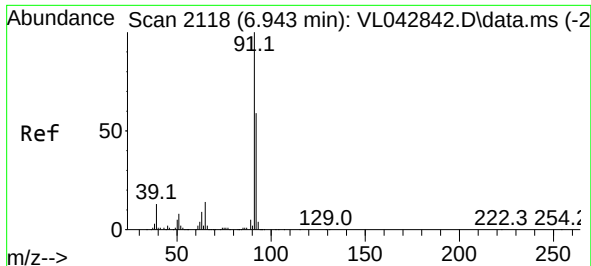
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

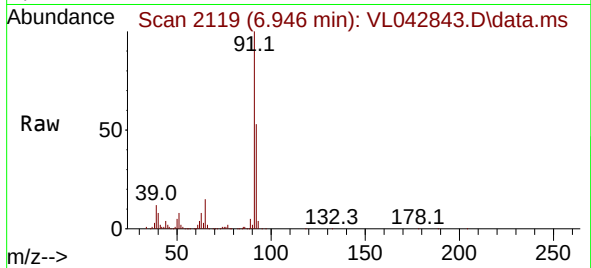
Tgt Ion:164 Resp: 28166
Ion Ratio Lower Upper
164 100
166 133.5 96.5 144.7
129 110.3 81.8 122.6
131 99.2 77.7 116.5





#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

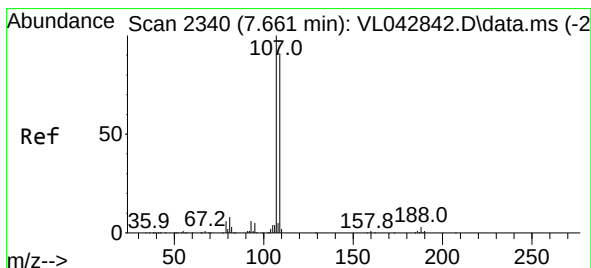
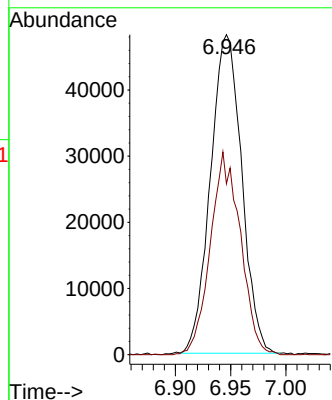
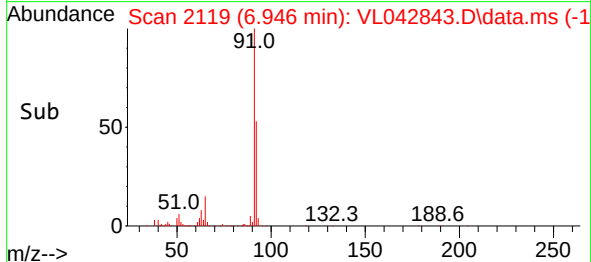
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



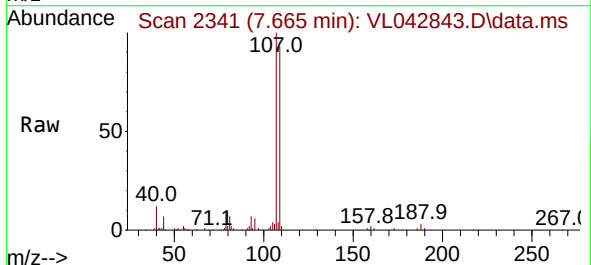
Tgt Ion: 91 Resp: 94690
Ion Ratio Lower Upper
91 100
92 61.1 47.8 71.6

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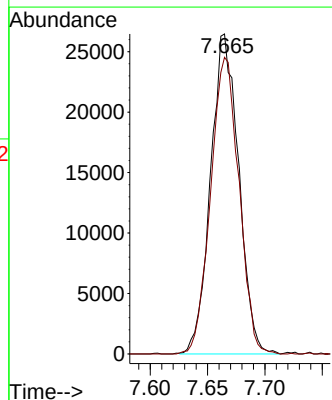
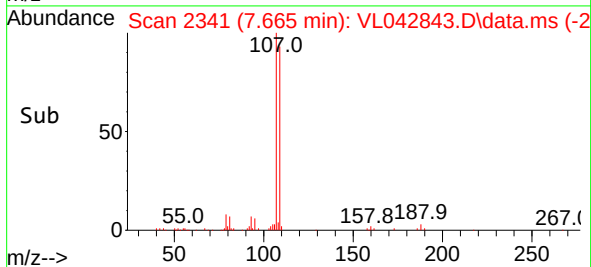
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

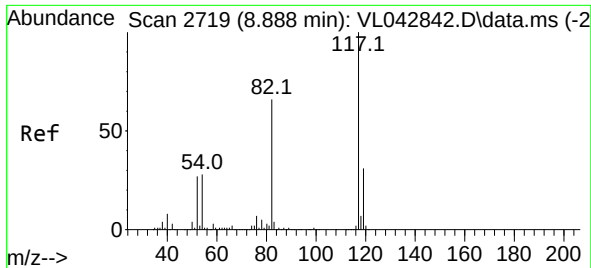


#54
1,2-Dibromoethane
Concen: 2.039 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



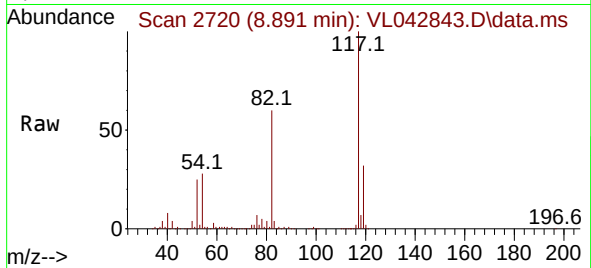
Tgt Ion:107 Resp: 45071
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

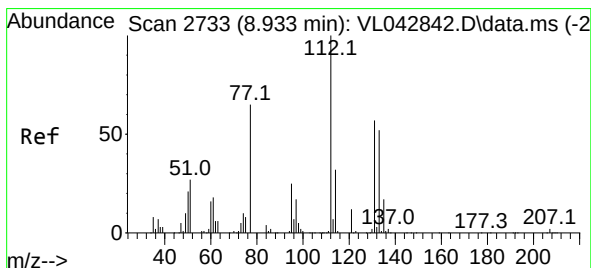
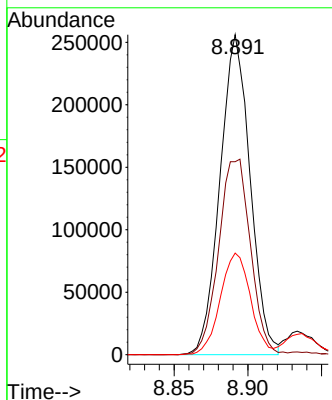
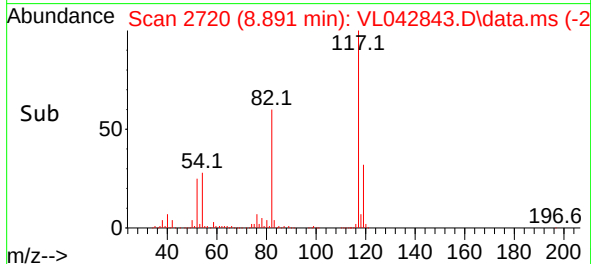
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



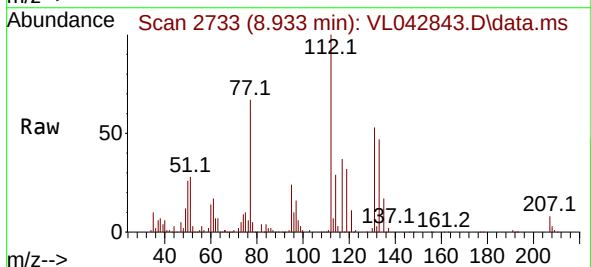
Tgt Ion:117 Resp: 363830
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 32.8 25.9 38.9

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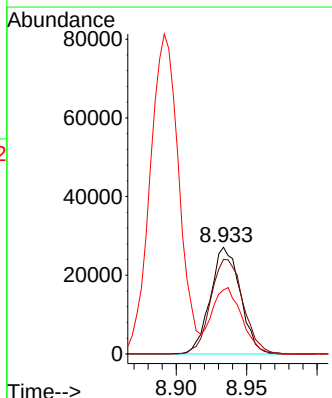
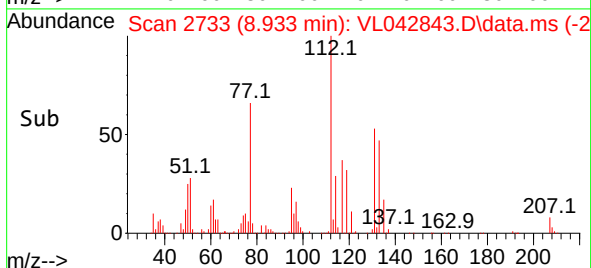
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

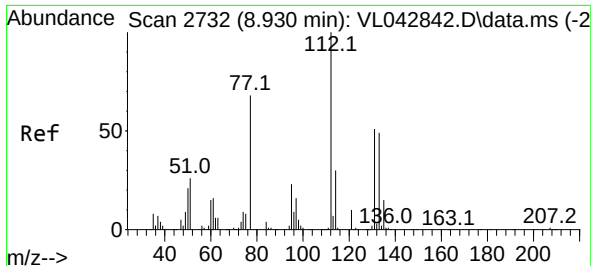


#56
1,1,1,2-Tetrachloroethane
Concen: 2.131 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



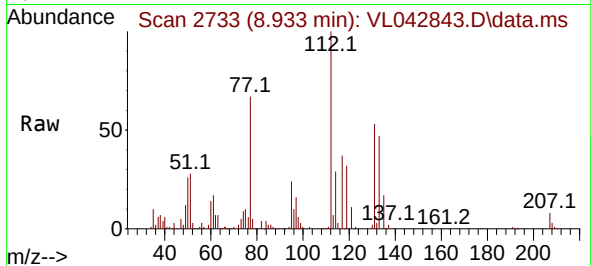
Tgt Ion:131 Resp: 40090
Ion Ratio Lower Upper
131 100
133 96.1 77.4 116.0
119 59.3 51.2 76.8





#57
Chlorobenzene
Concen: 2.090 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

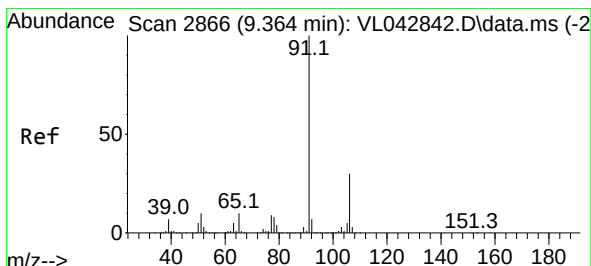
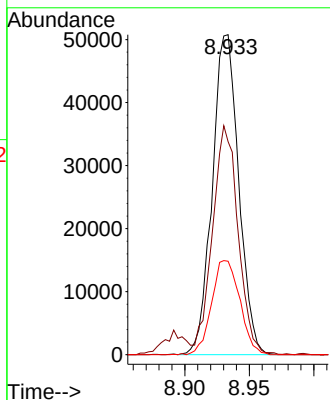
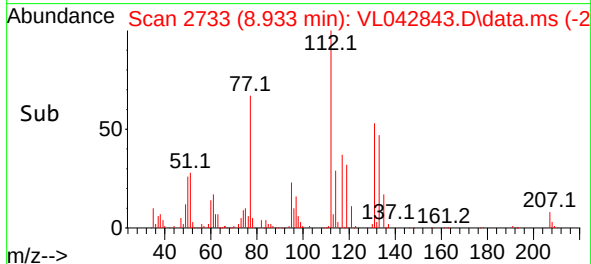
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 112 Resp: 72290
Ion Ratio Lower Upper
112 100
77 66.4 55.5 83.3
114 29.2 27.2 33.2

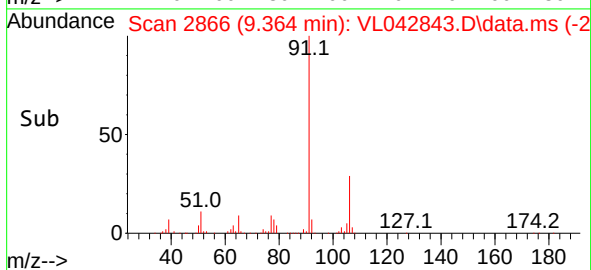
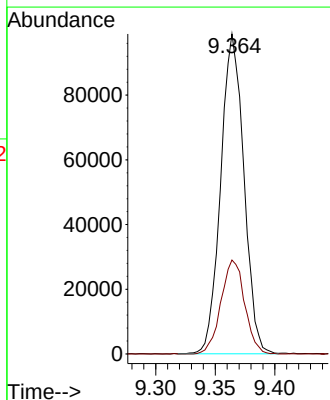
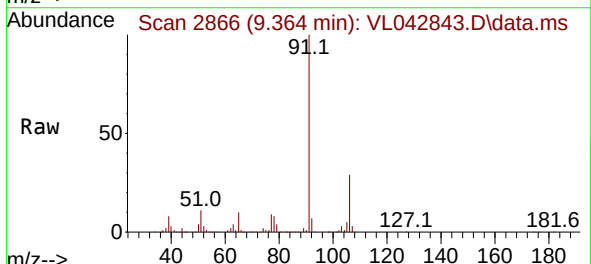
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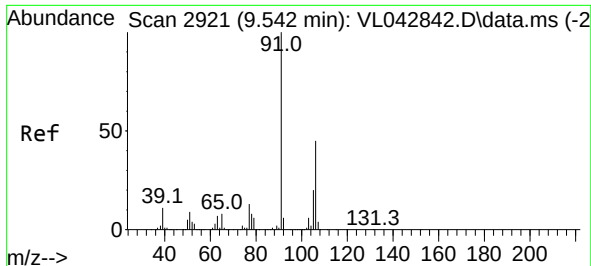
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 2.083 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

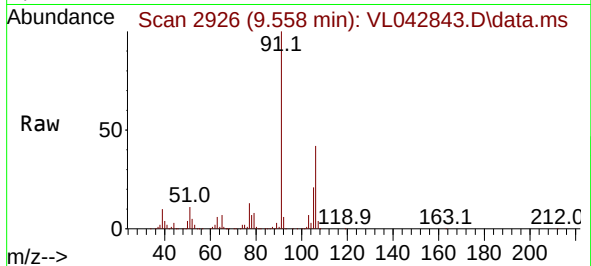
Tgt Ion: 91 Resp: 133719
Ion Ratio Lower Upper
91 100
106 29.4 23.9 35.9





#59
m/p-Xylene
Concen: 4.200 ppbv m
RT: 9.558 min Scan# 2921
Delta R.T. 0.016 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

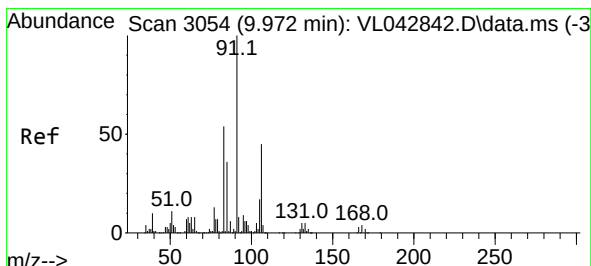
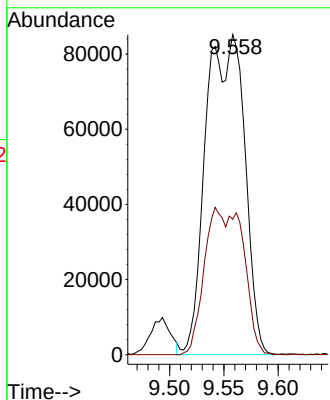
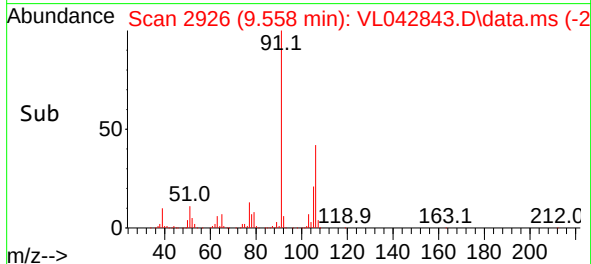
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 91 Resp: 211704
Ion Ratio Lower Upper
91 100
106 46.1 0.0 0.0

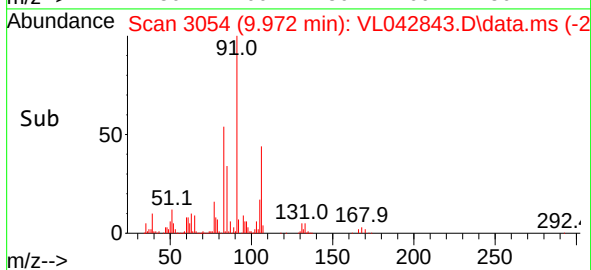
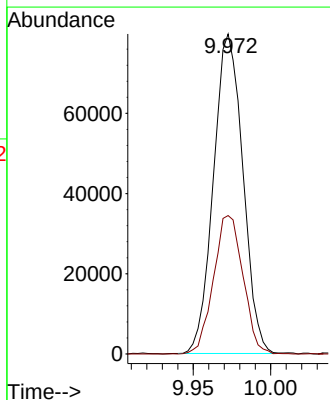
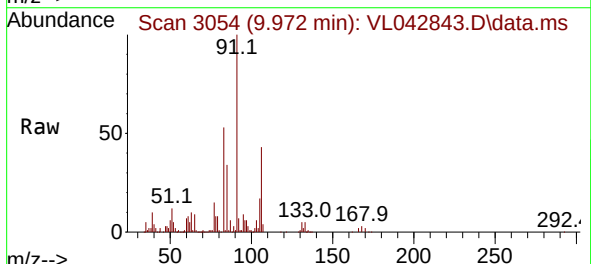
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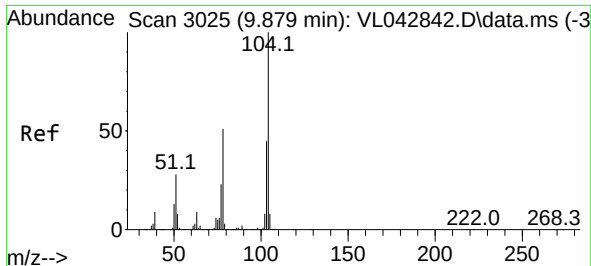
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 2.077 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 105125
Ion Ratio Lower Upper
91 100
106 43.5 21.8 65.4





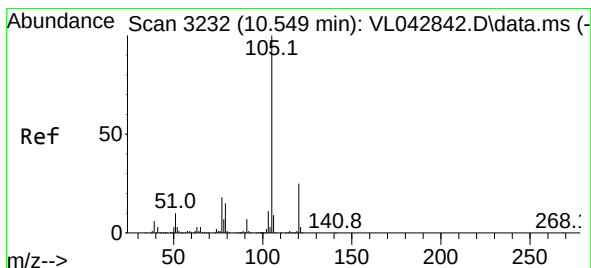
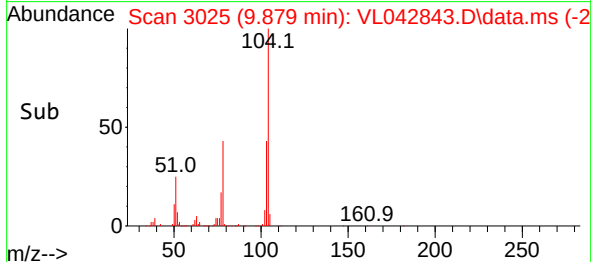
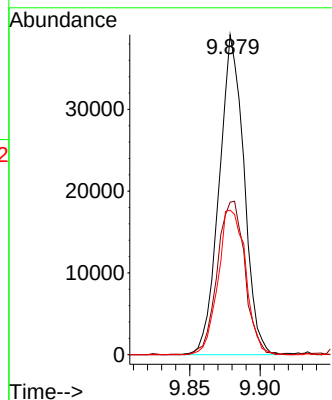
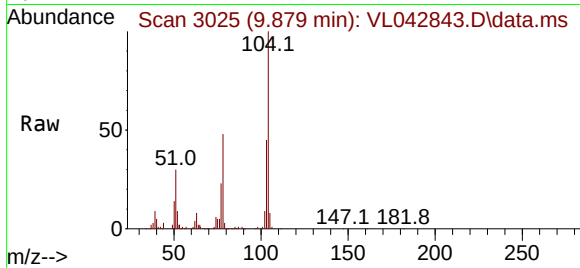
#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:104 Resp: 4802
Ion Ratio Lower Upper
104 100
78 53.4 40.6 61.0
103 50.1 37.7 56.5

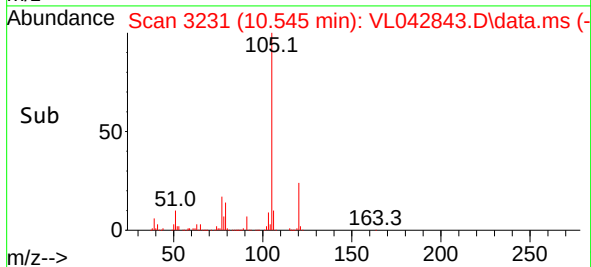
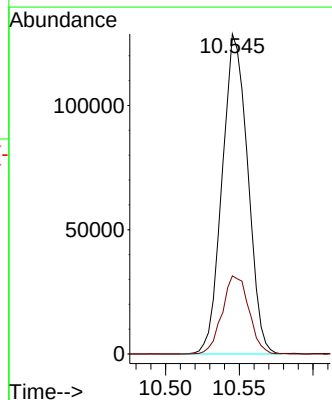
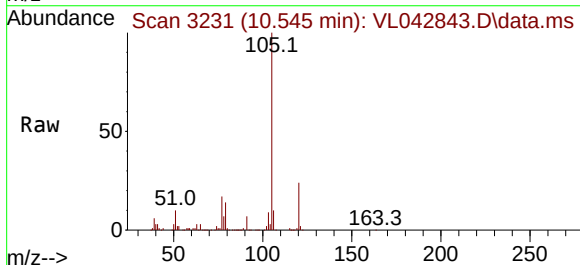
Manual Integrations
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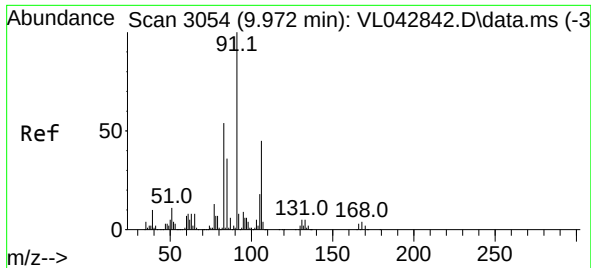
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 2.098 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

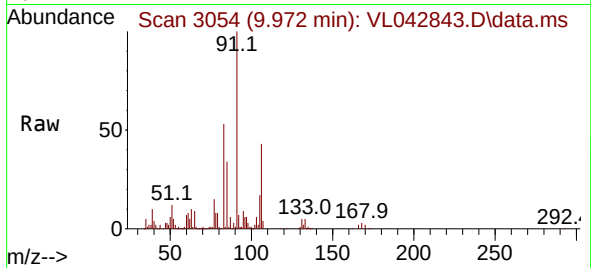
Tgt Ion:105 Resp: 155223
Ion Ratio Lower Upper
105 100
120 25.5 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 2.031 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

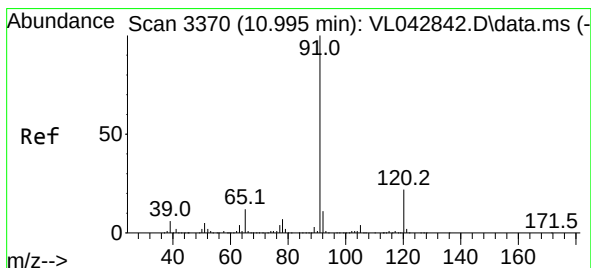
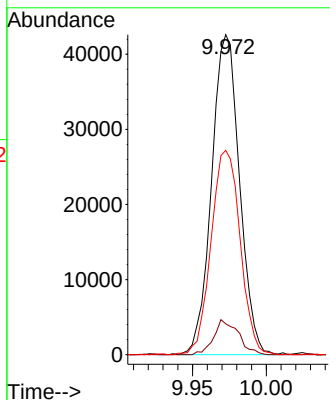
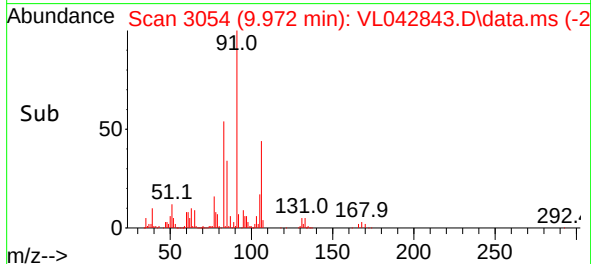
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



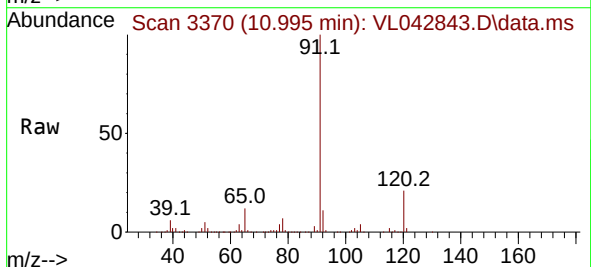
Tgt Ion: 83 Resp: 56139
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 66.5 32.3 96.8

Manual Integrations
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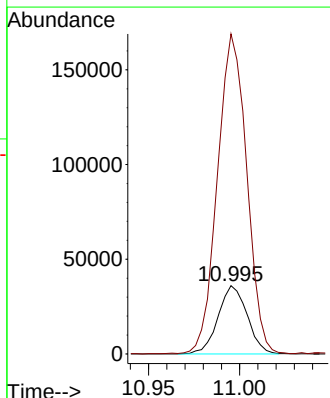
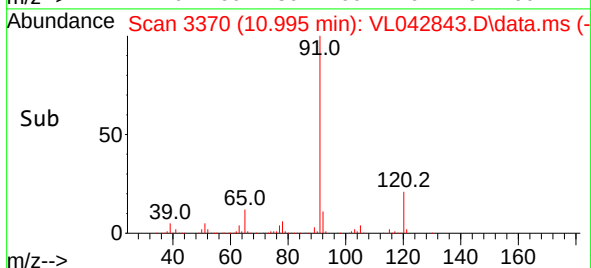
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

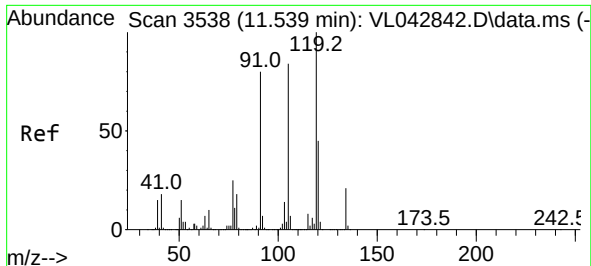


#64
n-propylbenzene
Concen: 2.115 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



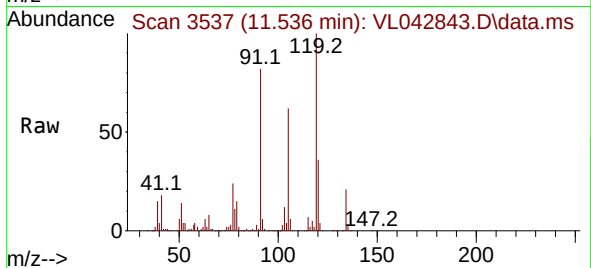
Tgt Ion:120 Resp: 39922
Ion Ratio Lower Upper
120 100
91 476.7 375.8 563.6





#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

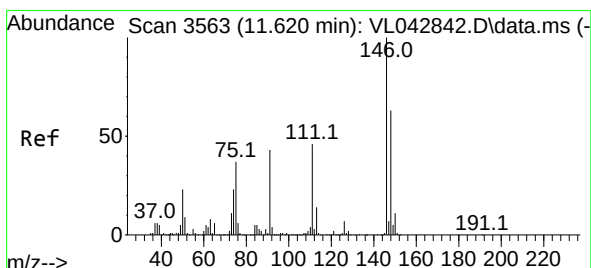
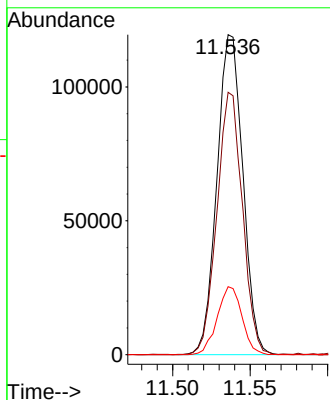
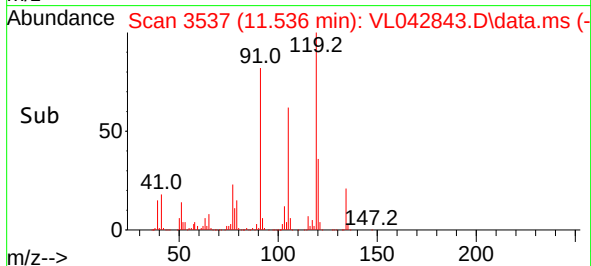
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



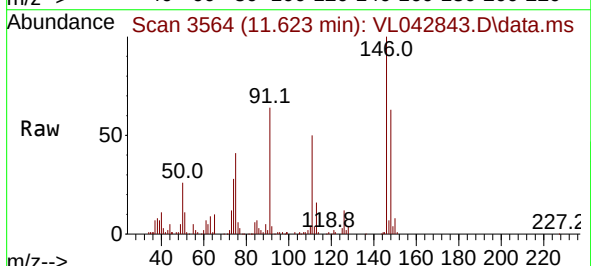
Tgt Ion: 119 Resp: 139019
Ion Ratio Lower Upper
119 100
91 80.9 63.9 95.9
134 20.3 17.0 25.4

Manual Integrations
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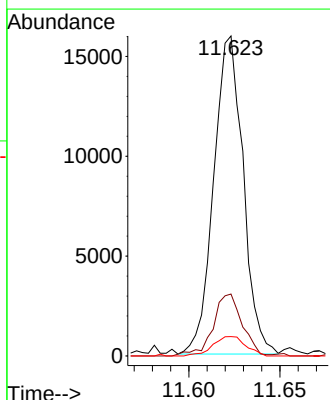
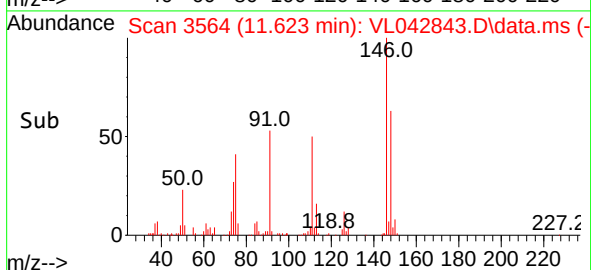
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

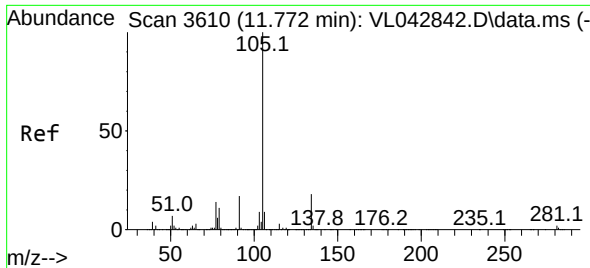


#66
Benzyl Chloride
Concen: 2.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



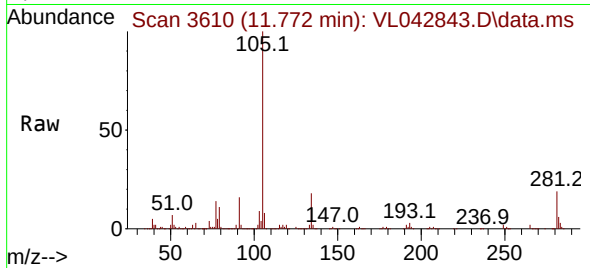
Tgt Ion: 91 Resp: 17893
Ion Ratio Lower Upper
91 100
126 19.5 14.2 21.4
128 6.9 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

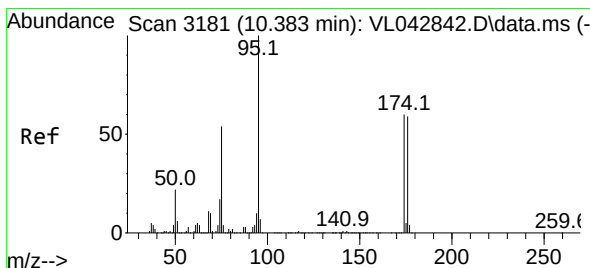
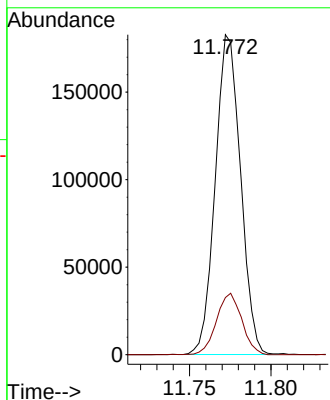
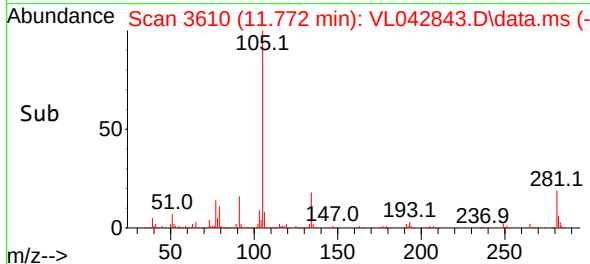
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



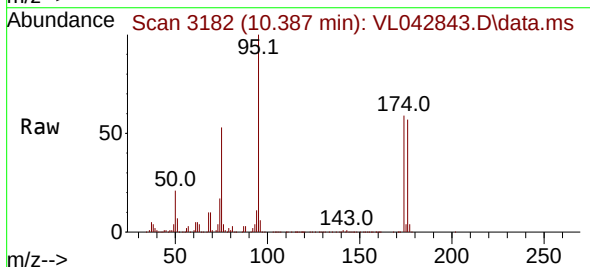
Tgt Ion:105 Resp: 196895
 Ion Ratio Lower Upper
 105 100
 134 19.3 14.9 22.3

Manual Integrations
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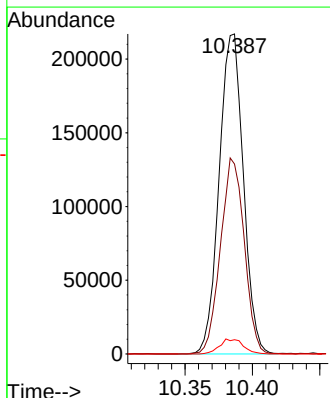
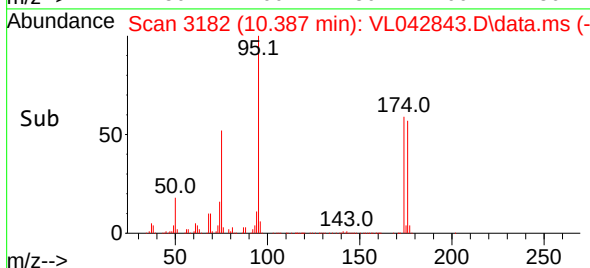
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

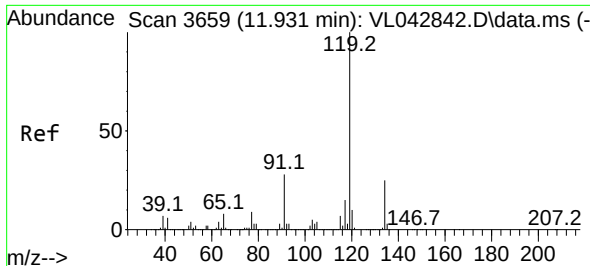


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.923 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



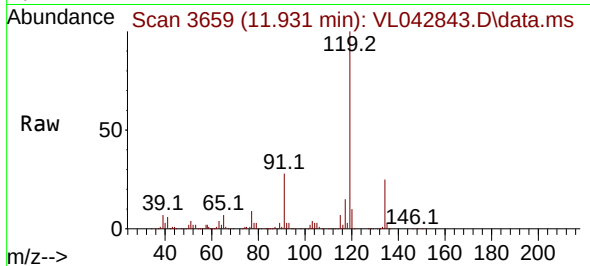
Tgt Ion: 95 Resp: 270774
 Ion Ratio Lower Upper
 95 100
 174 60.2 48.4 72.6
 175 4.6 3.8 5.8





#69
 p-Isopropyltoluene
 Concen: 2.156 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

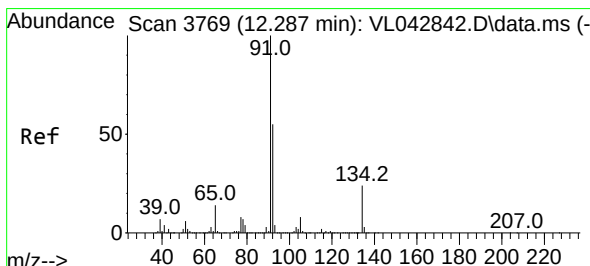
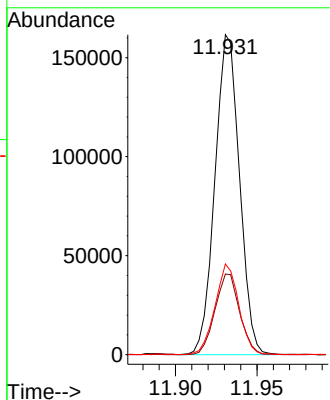
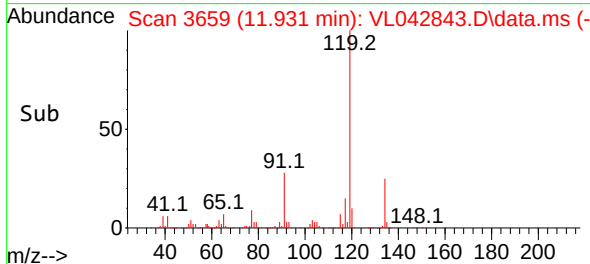
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



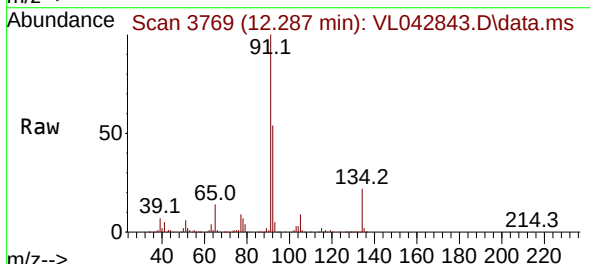
Tgt Ion: 119 Resp: 169429
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 30.8
 91 27.4 22.6 34.0

Manual Integrations
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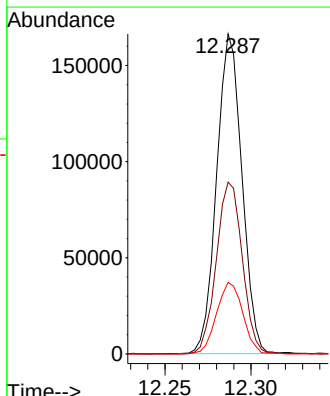
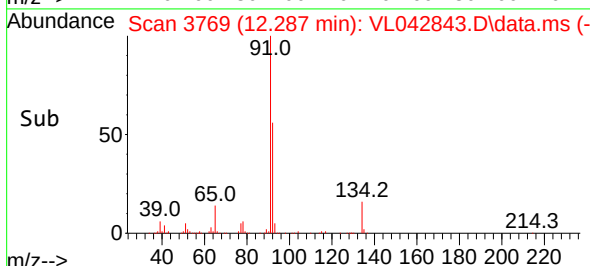
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

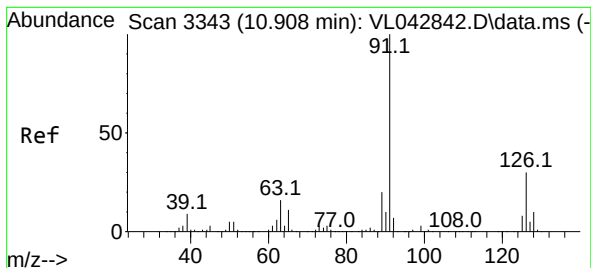


#70
 n-Butylbenzene
 Concen: 2.178 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



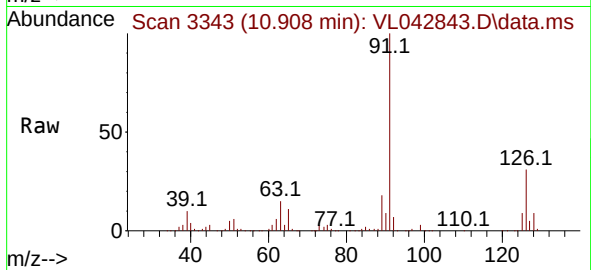
Tgt Ion: 91 Resp: 169768
 Ion Ratio Lower Upper
 91 100
 92 55.4 44.6 66.8
 134 23.3 19.0 28.4





#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

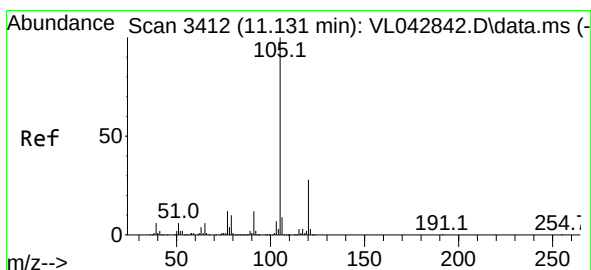
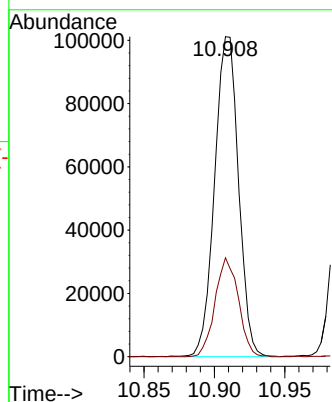
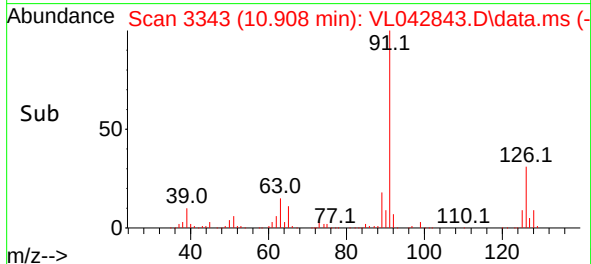
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



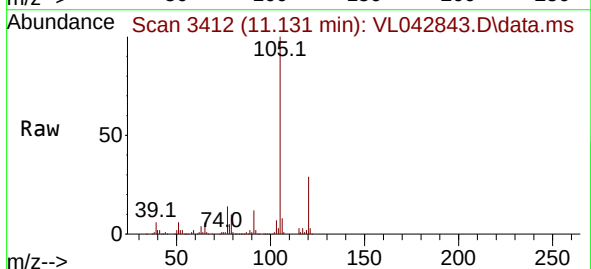
Tgt Ion: 91 Resp: 11938
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8

Manual Integrations
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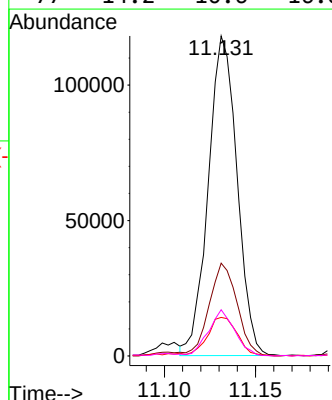
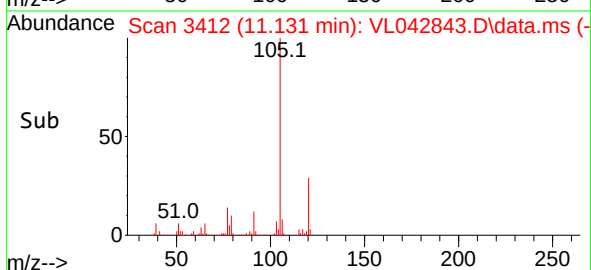
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

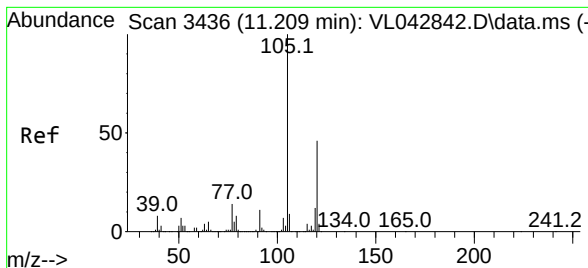


#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



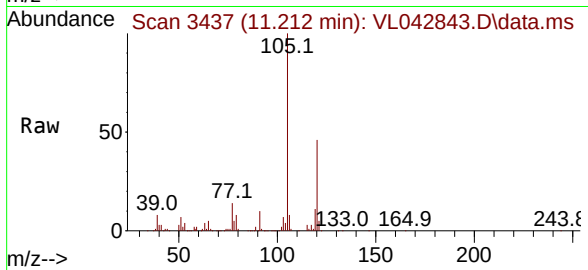
Tgt Ion:105 Resp: 129786
Ion Ratio Lower Upper
105 100
120 29.4 23.4 35.2
91 13.3 9.8 14.6
77 14.2 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 2.109 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

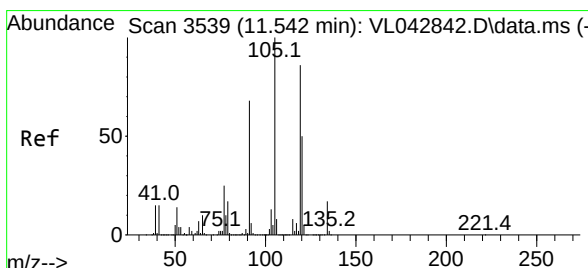
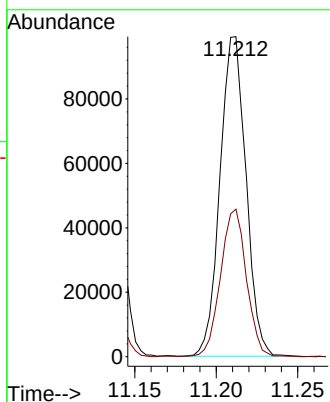
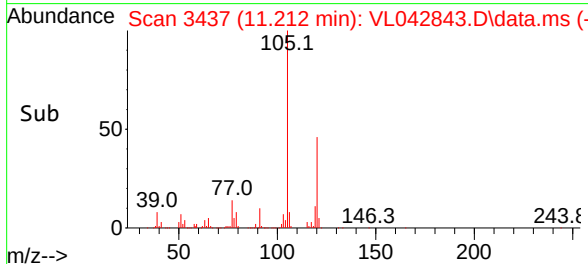
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



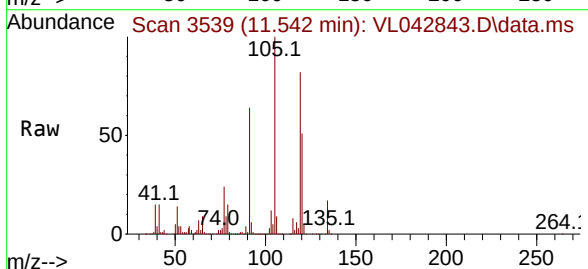
Tgt Ion:105 Resp: 11004
Ion Ratio Lower Upper
105 100
120 46.1 36.6 54.8

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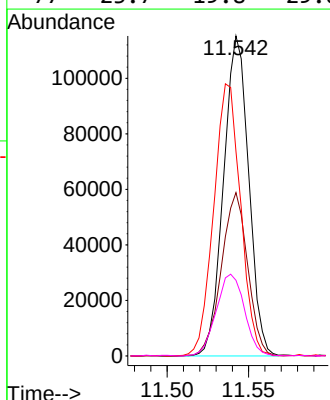
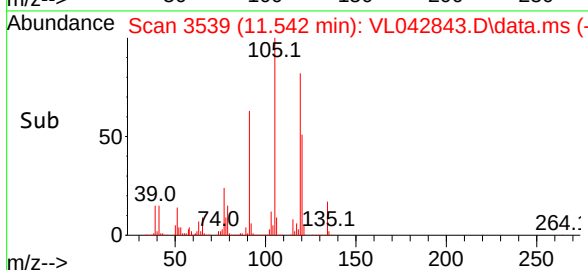
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

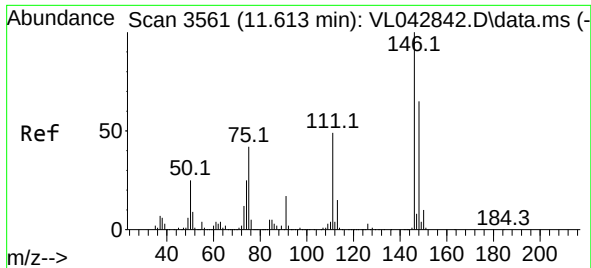


#74
1,2,4-Trimethylbenzene
Concen: 2.157 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion:105 Resp: 123554
Ion Ratio Lower Upper
105 100
120 51.0 39.8 59.6
91 63.9 54.2 81.4
77 23.7 19.8 29.6





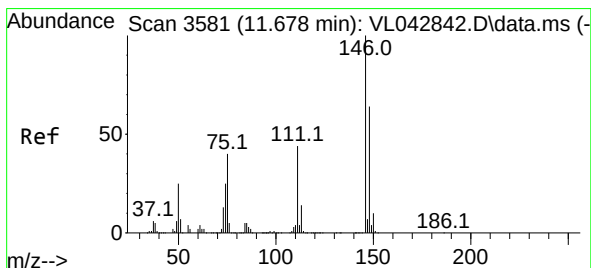
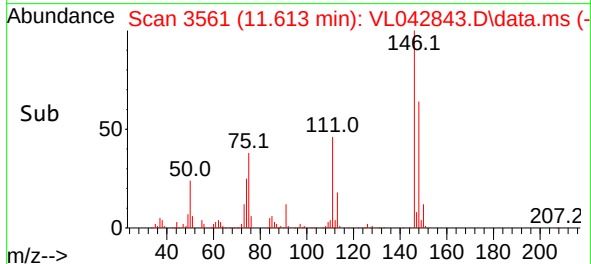
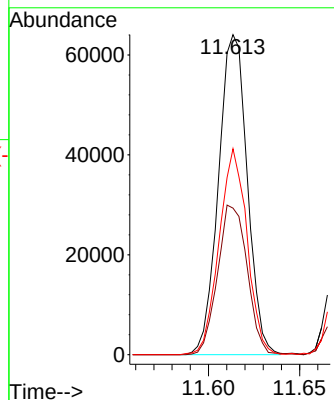
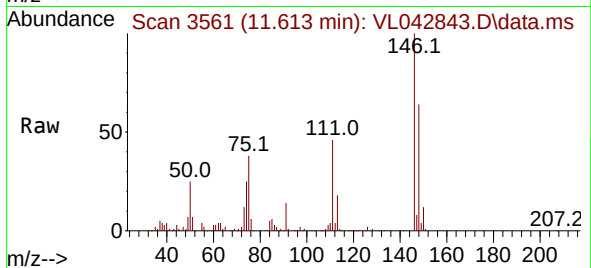
#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:146 Resp: 70330
Ion Ratio Lower Upper
146 100
111 48.0 23.9 71.7
148 62.5 31.4 94.0

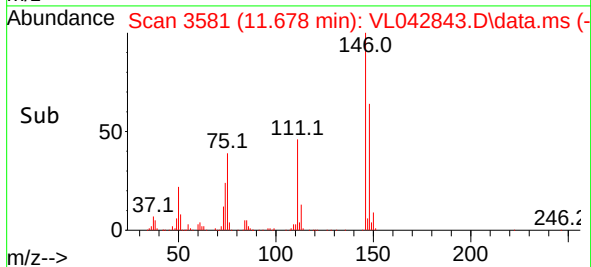
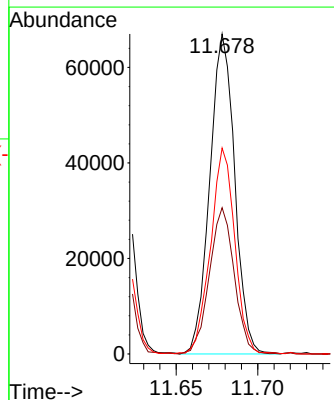
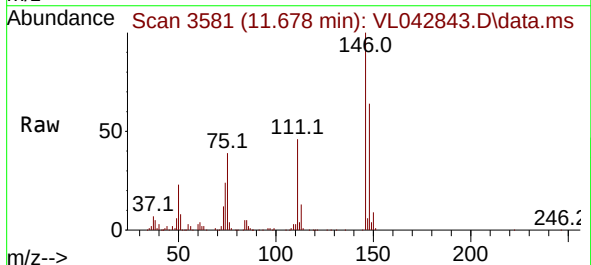
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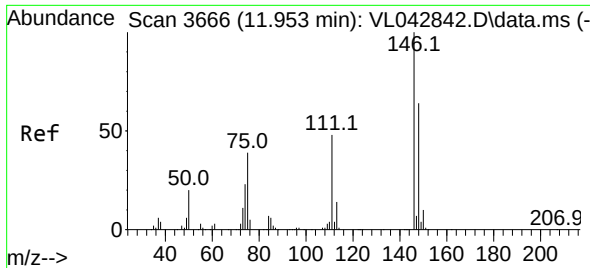
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#76
1,4-Dichlorobenzene
Concen: 2.161 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 71160
Ion Ratio Lower Upper
146 100
111 45.7 22.7 68.1
148 62.9 31.8 95.3





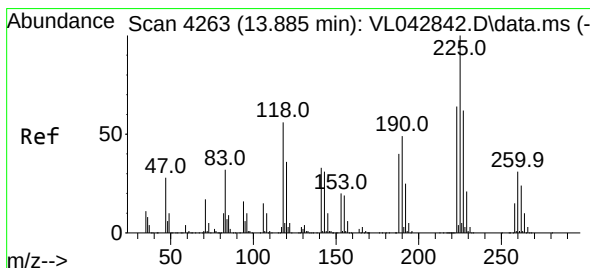
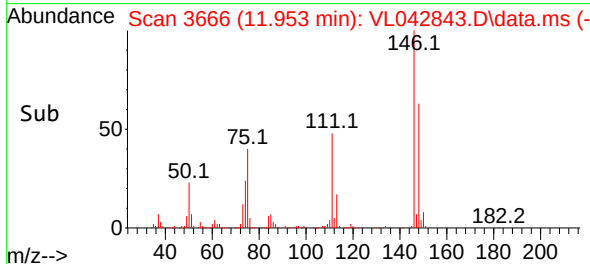
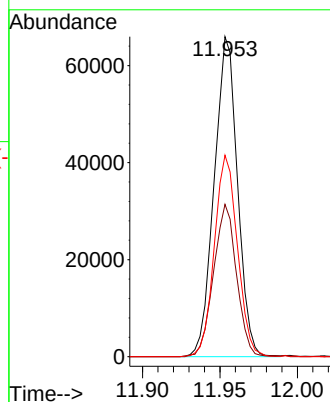
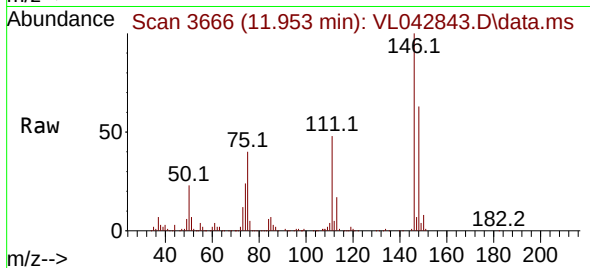
#77
1,2-Dichlorobenzene
Concen: 2.162 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 6894
Ion Ratio Lower Upper
146 100
111 47.1 24.6 74.0
148 62.5 32.0 96.0

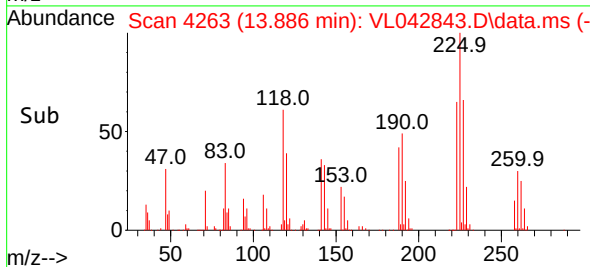
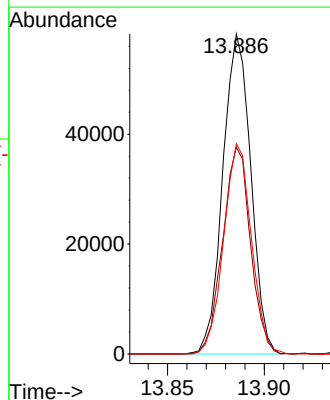
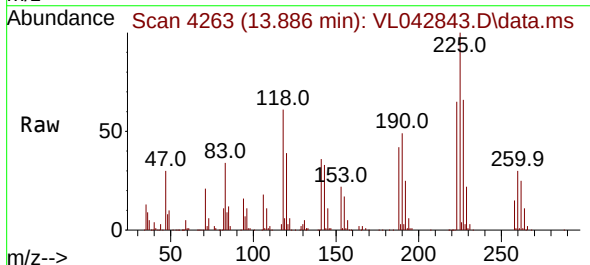
Manual Integrations
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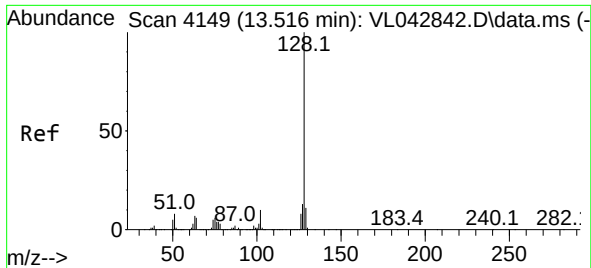
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

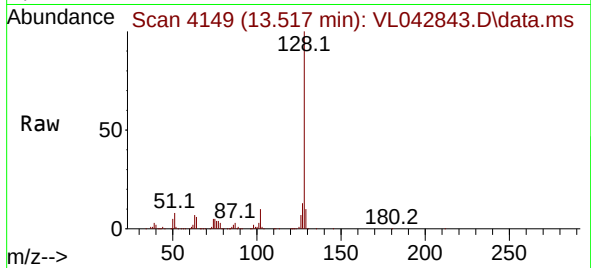
Tgt Ion:225 Resp: 58509
Ion Ratio Lower Upper
225 100
223 64.5 51.4 77.2
227 65.2 51.9 77.9





#79
Naphthalene
Concen: 2.478 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

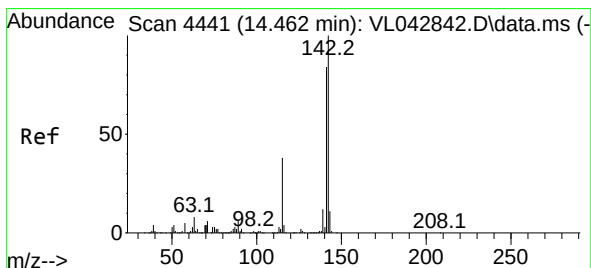
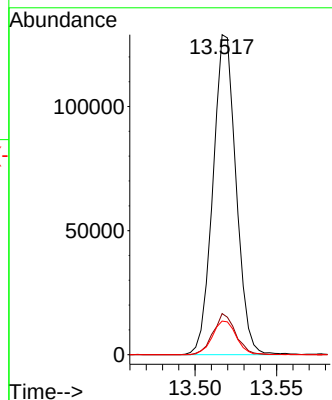
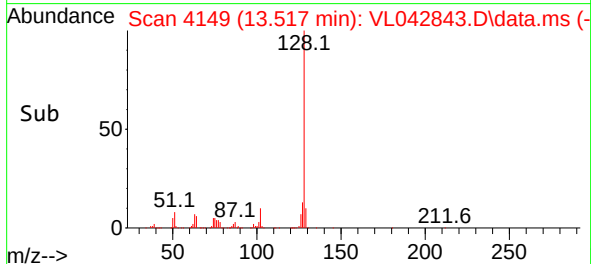
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



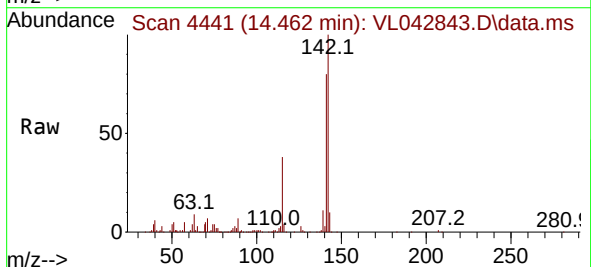
Tgt Ion:128 Resp: 127025
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.5 8.9 13.3

Manual Integrations
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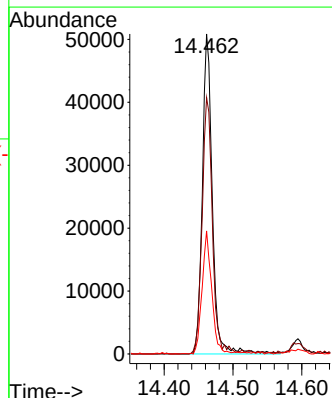
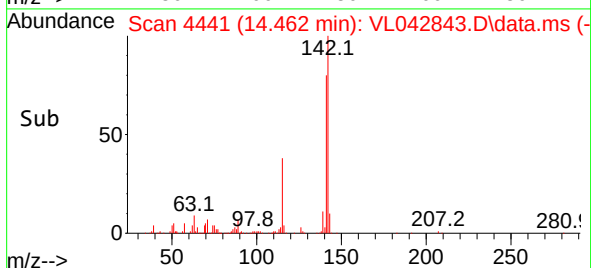
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

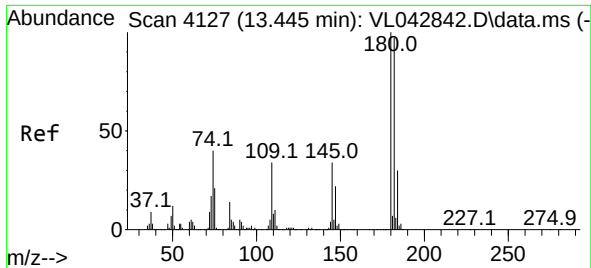


#80
Naphthalene,2-methyl-
Concen: 2.670 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



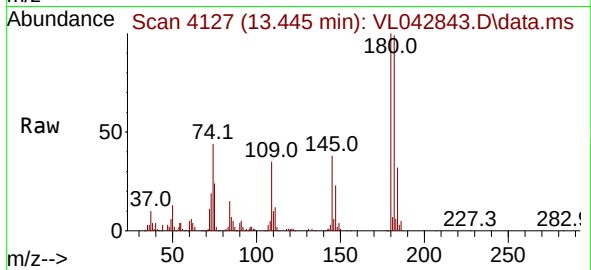
Tgt Ion:142 Resp: 51541
Ion Ratio Lower Upper
142 100
141 83.9 67.0 100.6
115 37.8 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 2.384 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

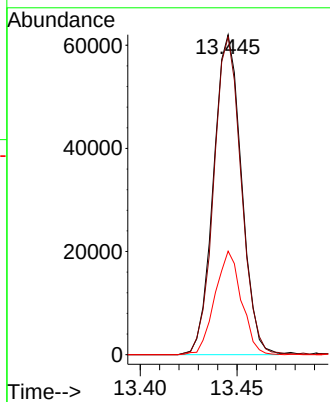
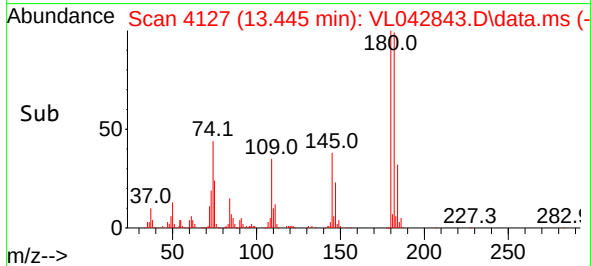
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 62210
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.9 115.3
 184 30.8 24.5 36.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 265708 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.985	43	25850m	1.075	ppbv	
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	883m	0.991	ppbv	
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.344	96	7882m	1.082	ppbv	
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	14595m	1.042	ppbv	
40) 1,4-Dioxane	4.603	88	7386m	1.127	ppbv	
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.885	69	16073m	1.022	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	68813m	1.069	ppbv	
45) t-1,3-Dichloropropene	6.419	75	18580m	1.042	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

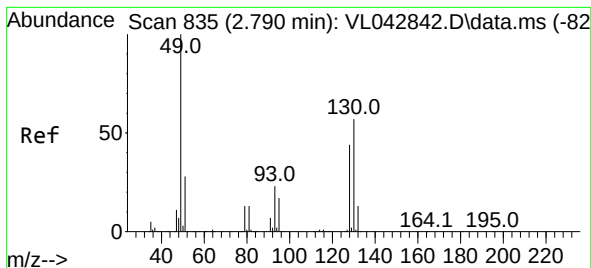
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.558	91	101634m	2.098	ppbv	
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.791 min Scan# 835

Delta R.T. 0.001 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 49 Resp: 12854

Ion Ratio Lower Upper

49 100

128 48.4 23.7 71.1

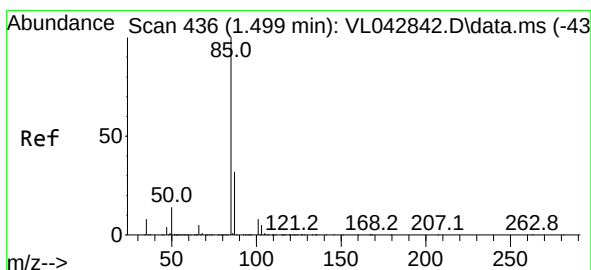
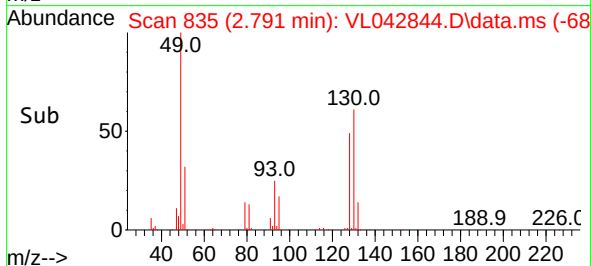
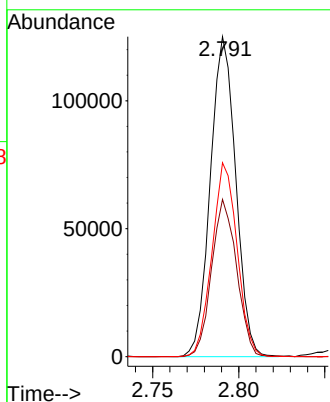
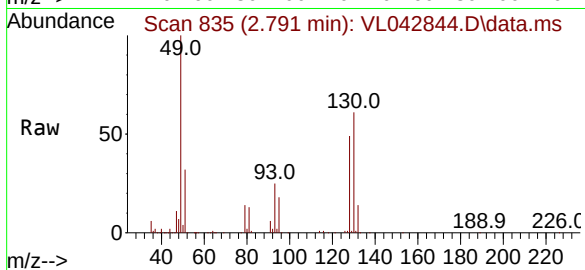
130 59.9 30.6 91.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#2

Dichlorodifluoromethane

Concen: 1.041 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.000 min

Lab File: VL042844.D

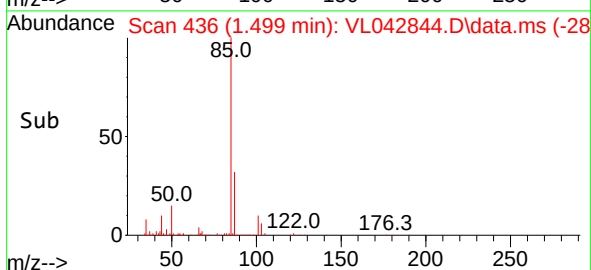
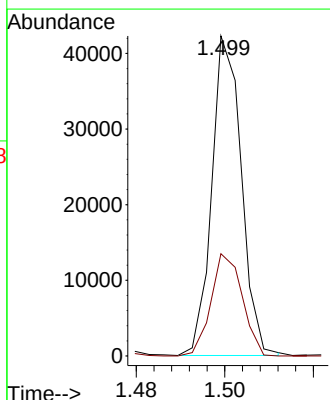
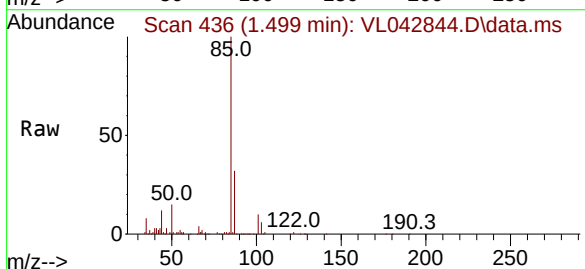
Acq: 13 Aug 2025 09:41

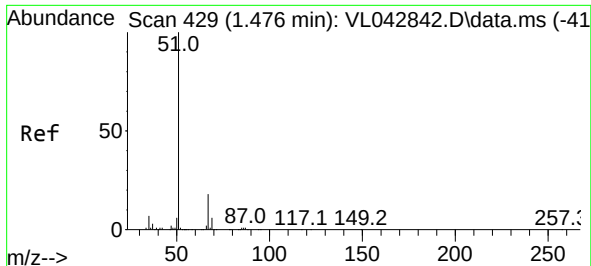
Tgt Ion: 85 Resp: 19603

Ion Ratio Lower Upper

85 100

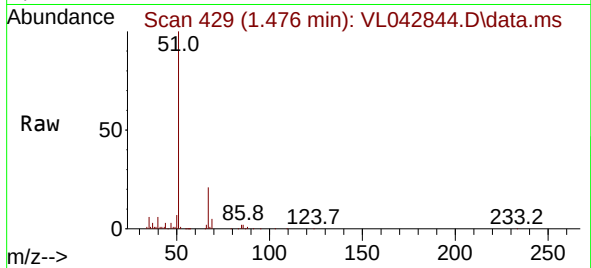
87 32.0 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.999 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

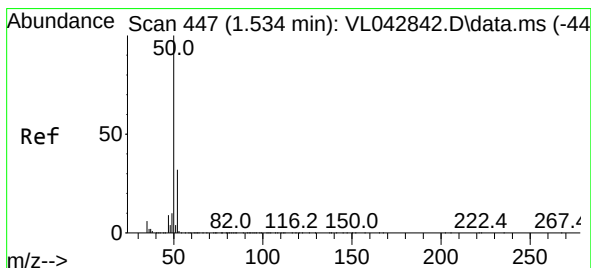
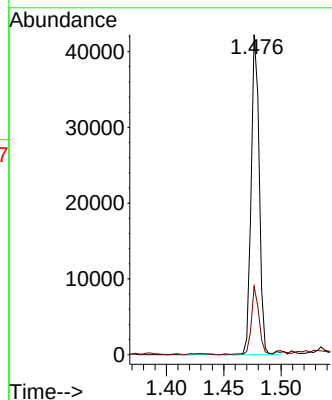
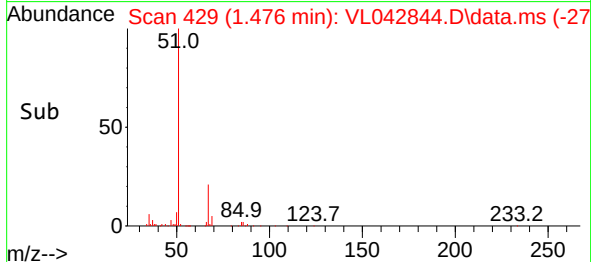
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



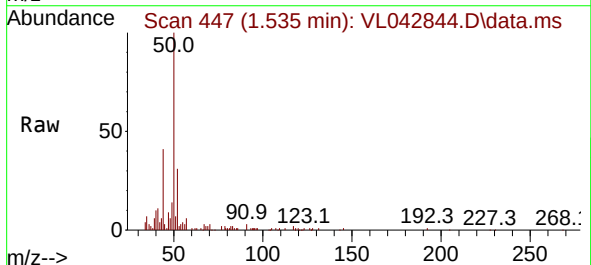
Tgt Ion: 51 Resp: 2083
Ion Ratio Lower Upper
51 100
67 21.9 14.9 22.3

Manual Integrations
APPROVED

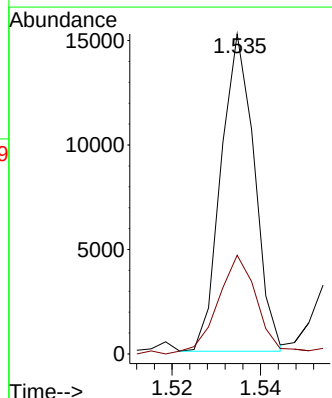
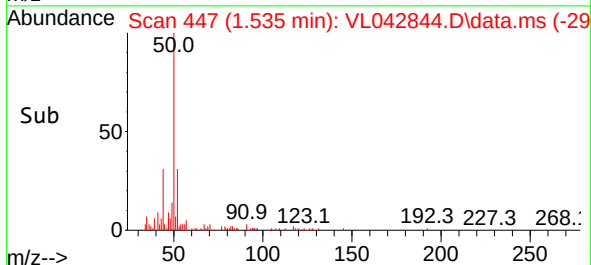
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

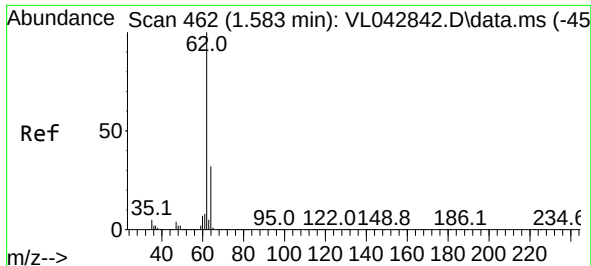


#4
Chloromethane
Concen: 1.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



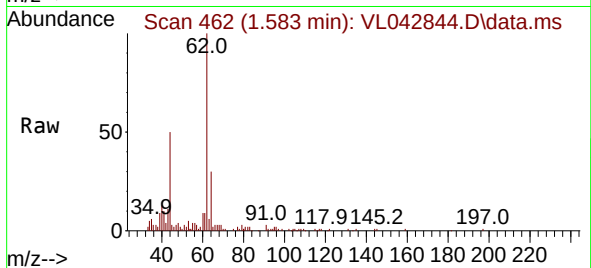
Tgt Ion: 50 Resp: 7948
Ion Ratio Lower Upper
50 100
52 30.2 25.9 38.9





#5
 Vinyl Chloride
 Concen: 0.960 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

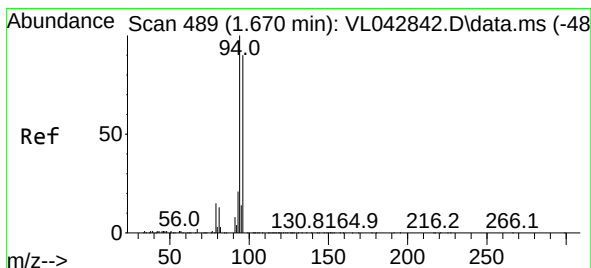
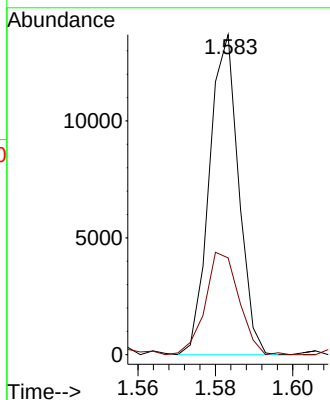
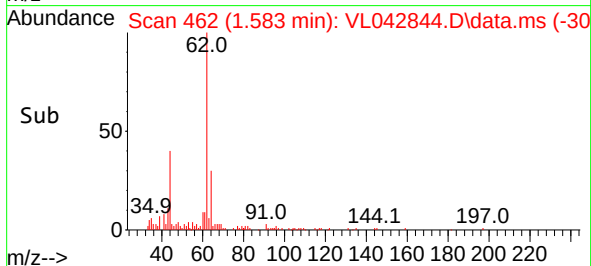
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



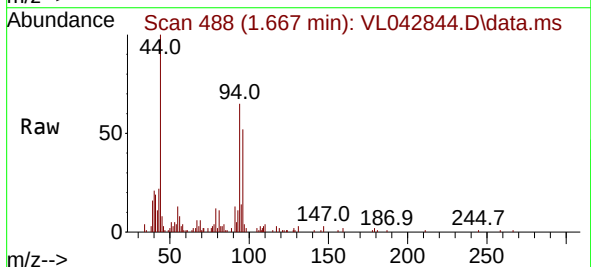
Tgt Ion: 62 Resp: 7189
 Ion Ratio Lower Upper
 62 100
 64 29.7 25.4 38.2

Manual Integrations
 APPROVED

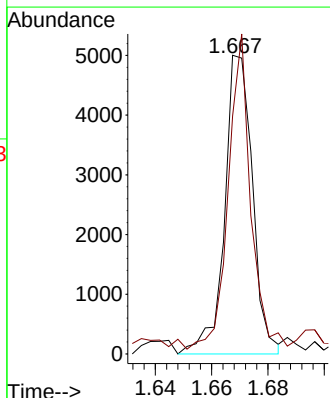
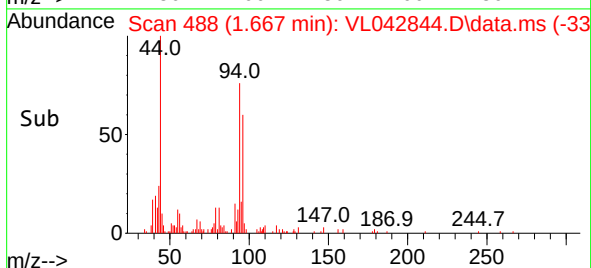
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

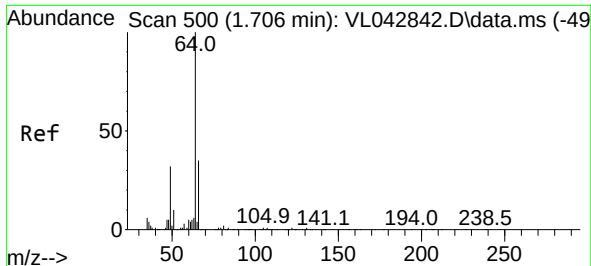


#6
 Bromomethane
 Concen: 1.151 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



Tgt Ion: 94 Resp: 3446
 Ion Ratio Lower Upper
 94 100
 96 74.7 72.1 108.1





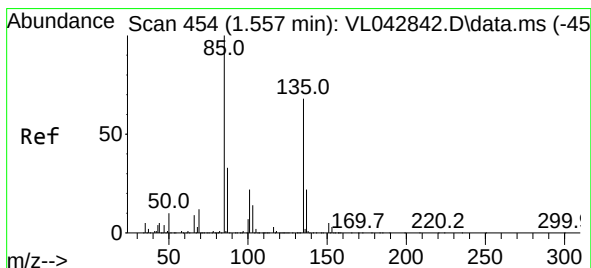
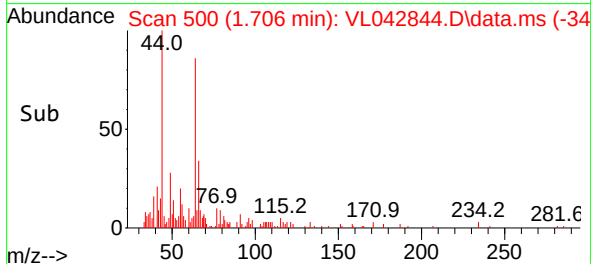
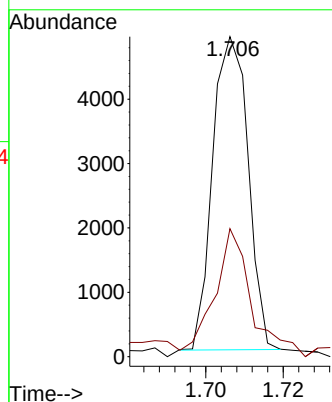
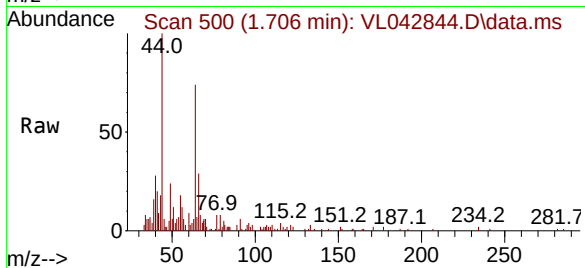
#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3089
Ion Ratio Lower Upper
64 100
66 40.0 28.6 42.8

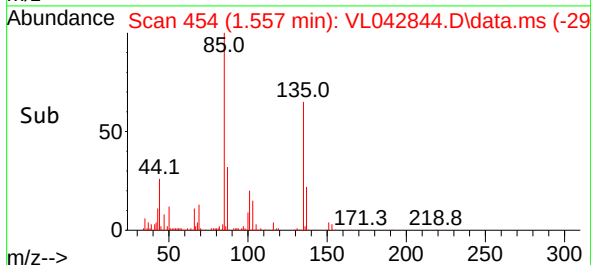
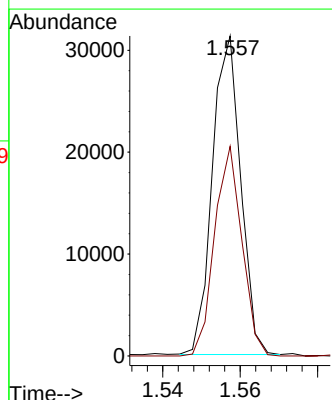
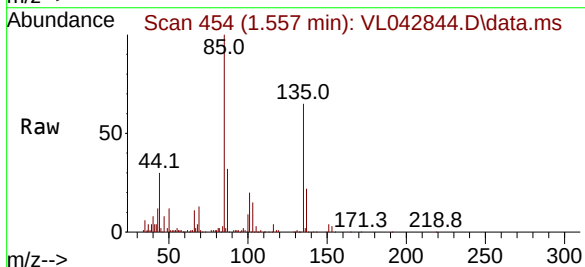
Manual Integrations
APPROVED

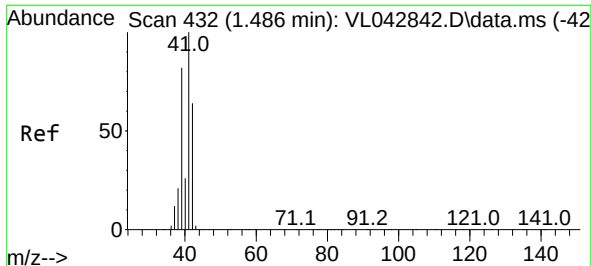
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#8
Dichlorotetrafluoroethane
Concen: 1.030 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

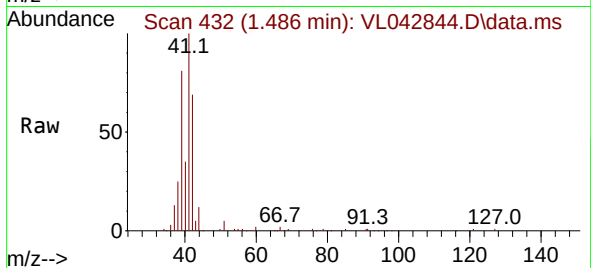
Tgt Ion: 85 Resp: 15872
Ion Ratio Lower Upper
85 100
135 63.7 51.2 76.8





#9
Propene
Concen: 0.989 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

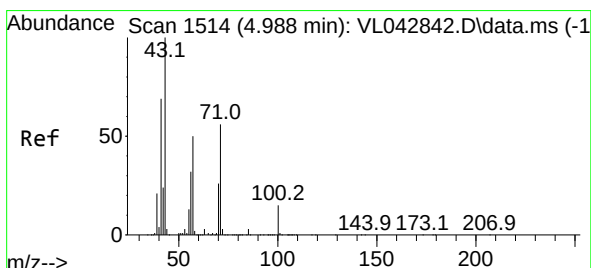
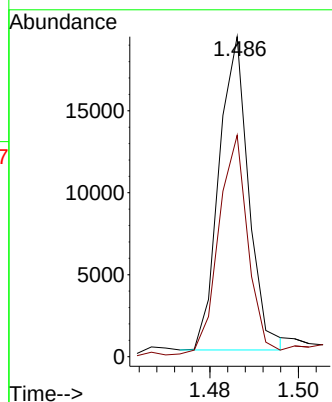
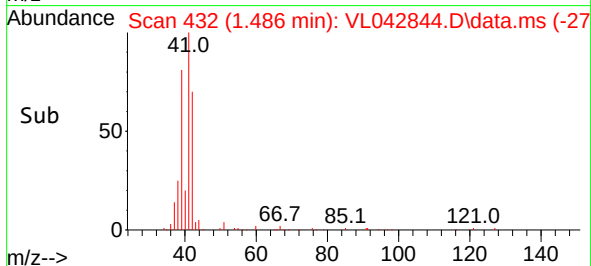
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



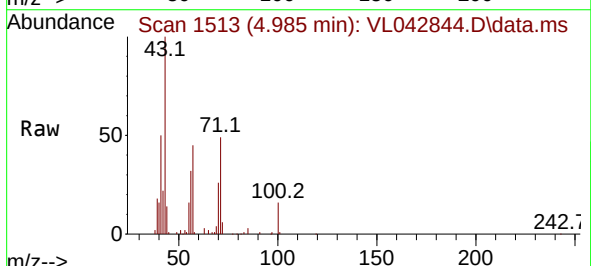
Tgt Ion: 41 Resp: 889
Ion Ratio Lower Upper
41 100
42 74.9 53.0 79.4

Manual Integrations
APPROVED

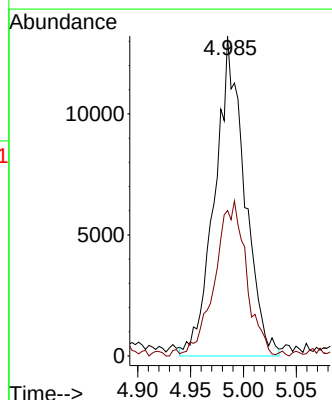
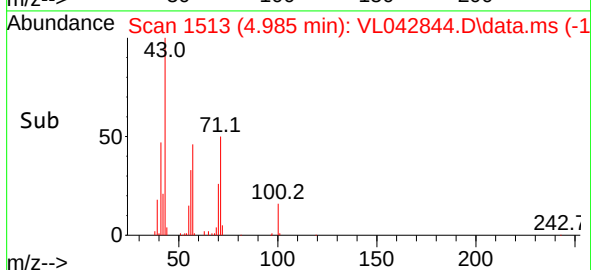
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

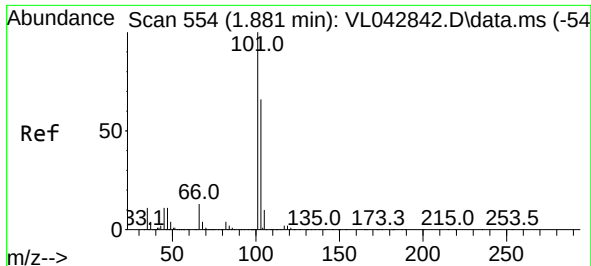


#10
Heptane
Concen: 1.075 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



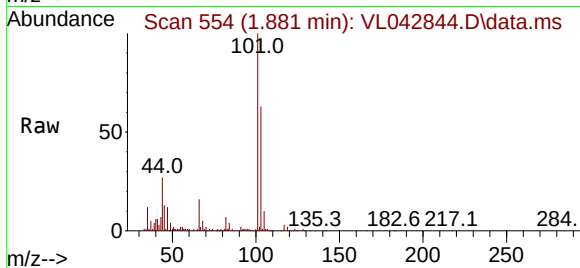
Tgt Ion: 43 Resp: 25850
Ion Ratio Lower Upper
43 100
57 52.0 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 1.060 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

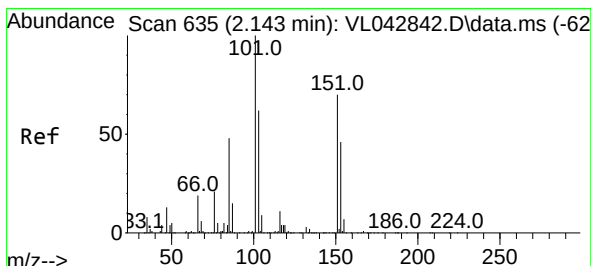
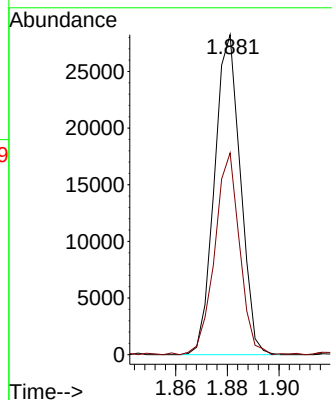
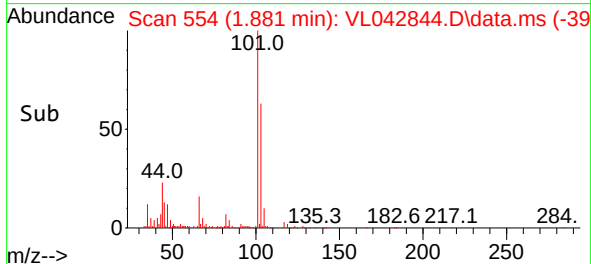
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



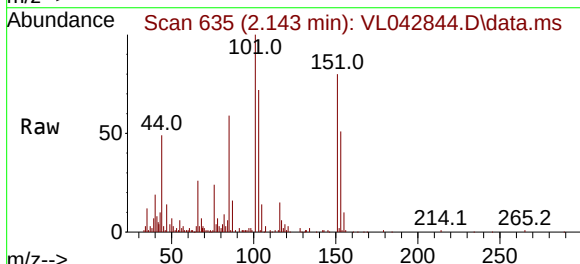
Tgt Ion:101 Resp: 1970
 Ion Ratio Lower Upper
 101 100
 103 62.8 52.5 78.7

Manual Integrations
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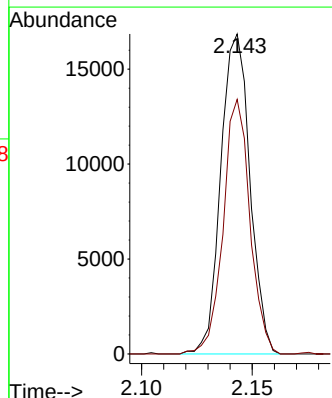
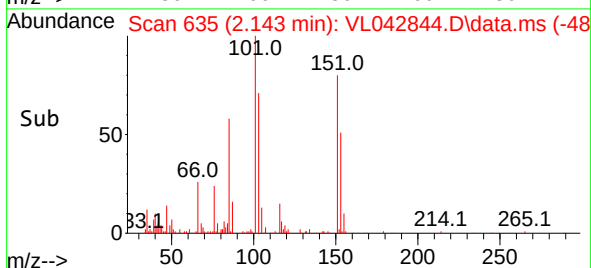
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

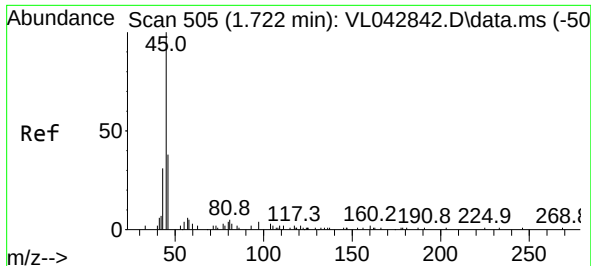


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.043 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



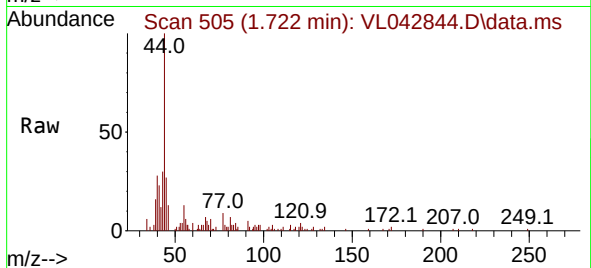
Tgt Ion:101 Resp: 15446
 Ion Ratio Lower Upper
 101 100
 151 73.2 56.4 84.6





#13
Ethanol
Concen: 0.991 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

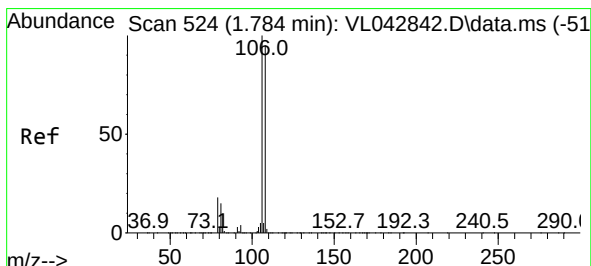
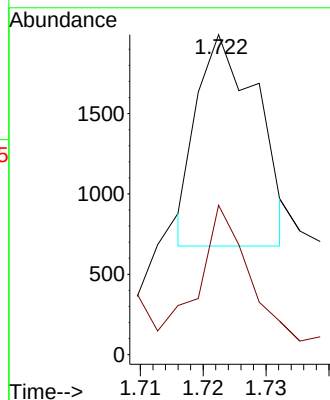
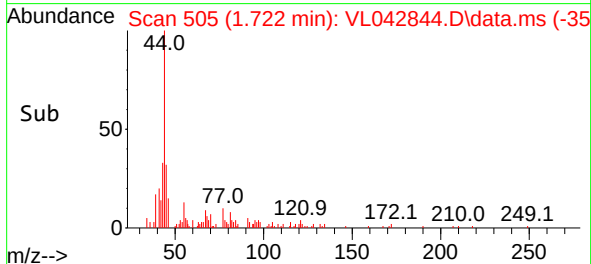
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



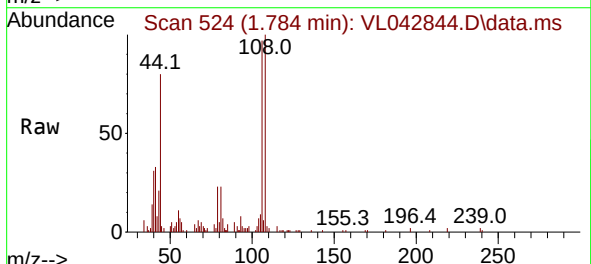
Tgt Ion: 45 Resp: 88
Ion Ratio Lower Upper
45 100
46 92.1 17.5 69.9

Manual Integrations
APPROVED

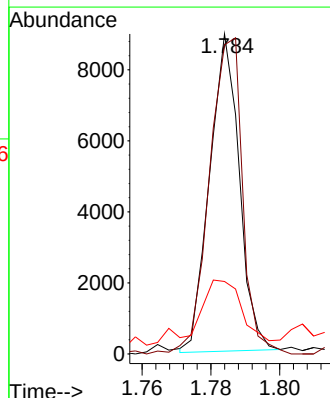
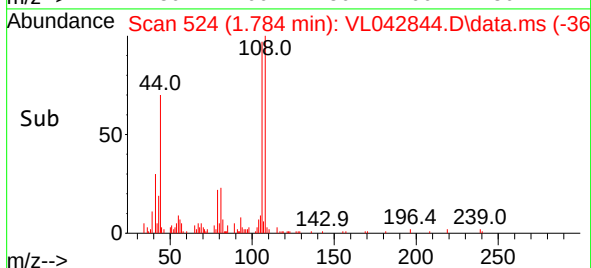
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

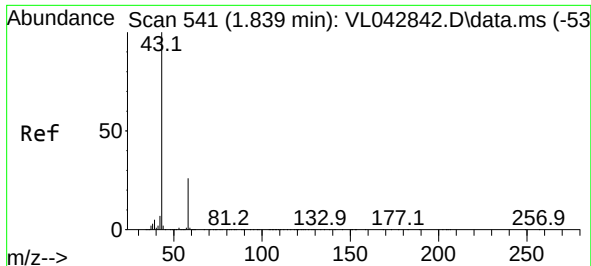


#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



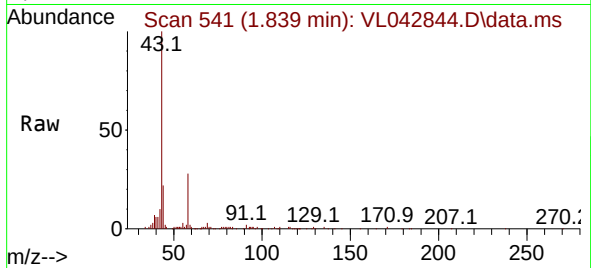
Tgt Ion:108 Resp: 5343
Ion Ratio Lower Upper
108 100
106 117.1 85.1 127.7
79 58.9 16.3 24.5





#15
Acetone
Concen: 1.115 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

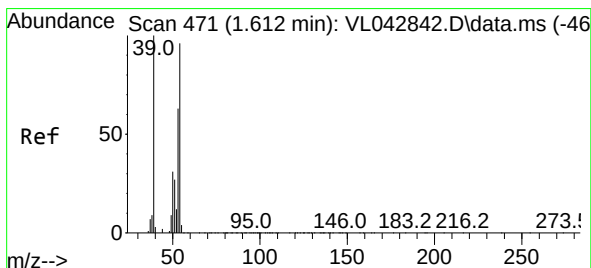
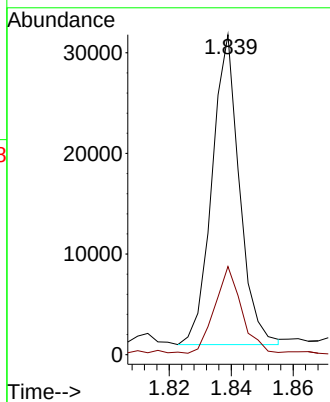
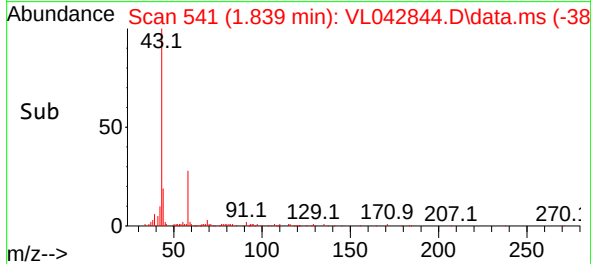
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



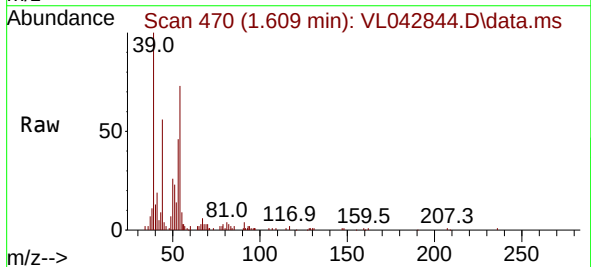
Tgt Ion: 43 Resp: 1896
Ion Ratio Lower Upper
43 100
58 29.1 22.4 33.6

Manual Integrations
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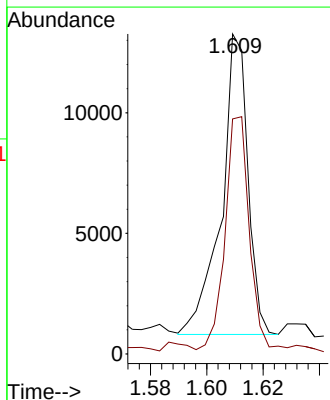
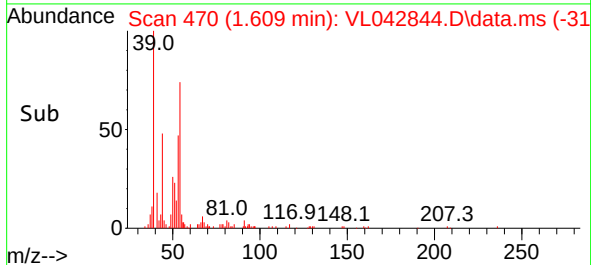
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

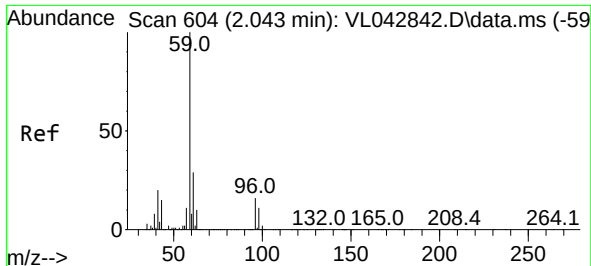


#16
1,3-Butadiene
Concen: 1.055 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion: 39 Resp: 8133
Ion Ratio Lower Upper
39 100
54 78.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.058 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 2134

Ion Ratio Lower Upper

59 100

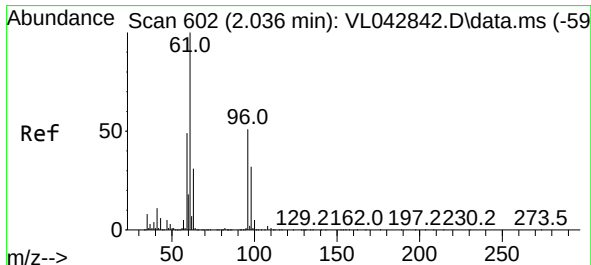
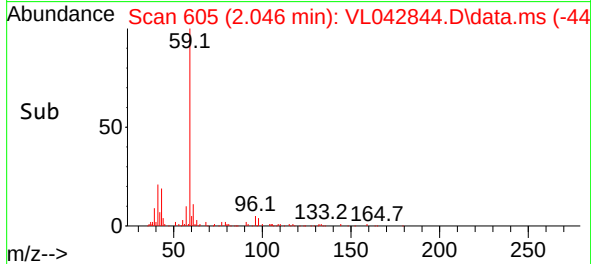
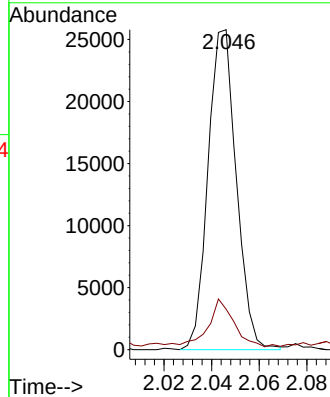
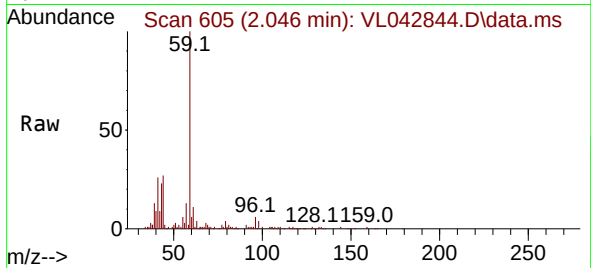
57 13.7 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#18

1,1-Dichloroethene

Concen: 1.006 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

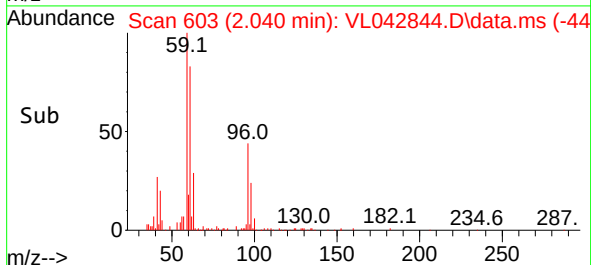
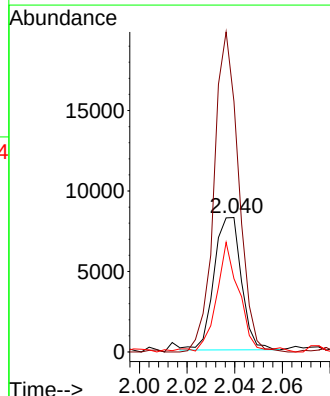
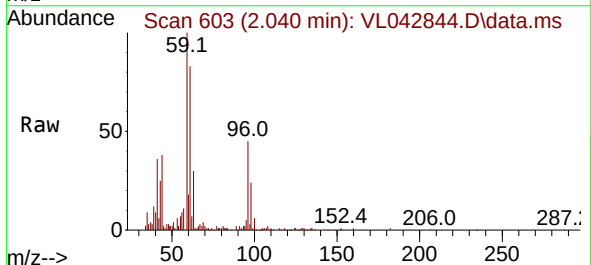
Tgt Ion: 96 Resp: 6549

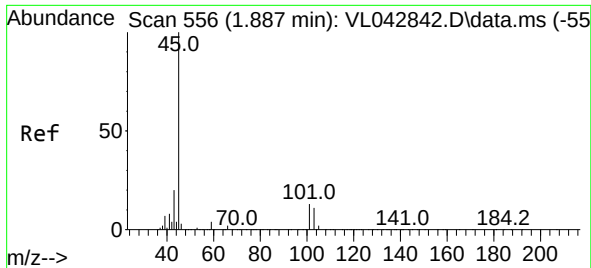
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0





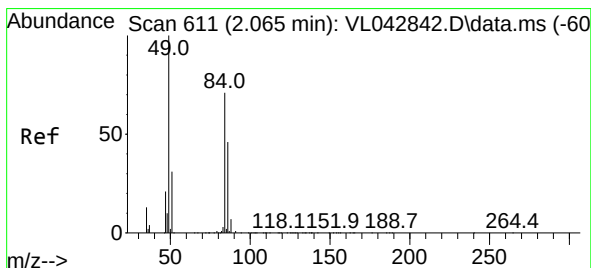
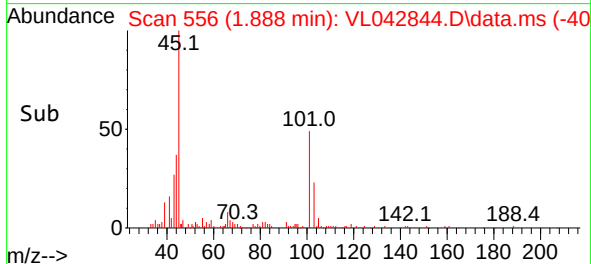
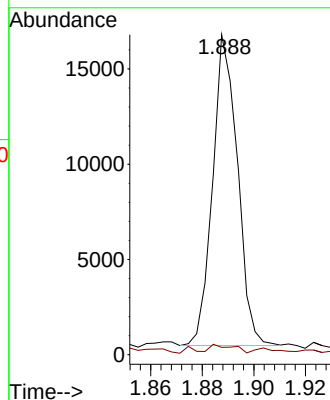
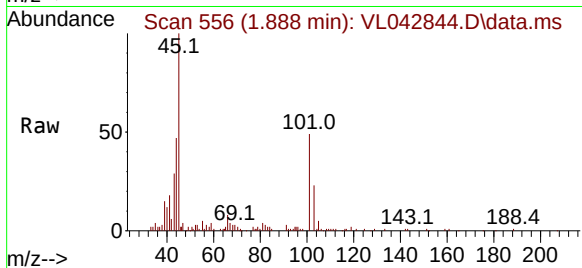
#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1089
Ion Ratio Lower Upper
45 100
58 2.9 32.7 49.1

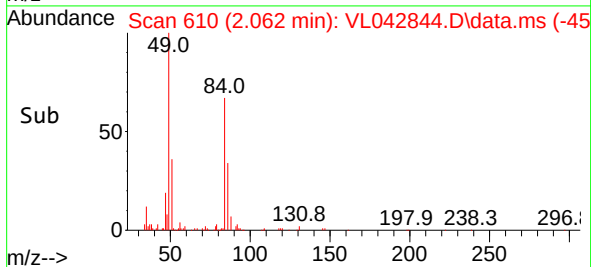
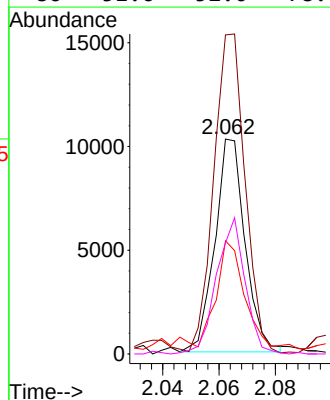
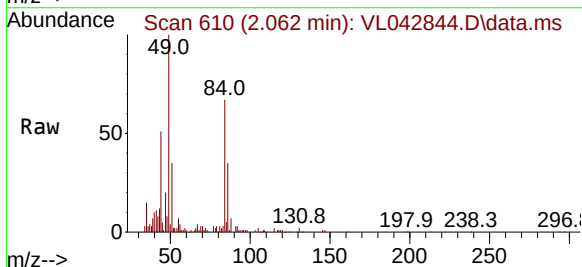
Manual Integrations
APPROVED

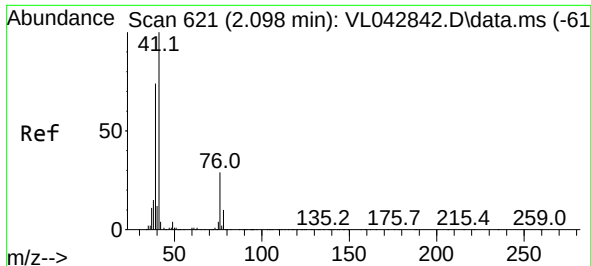
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 1.076 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

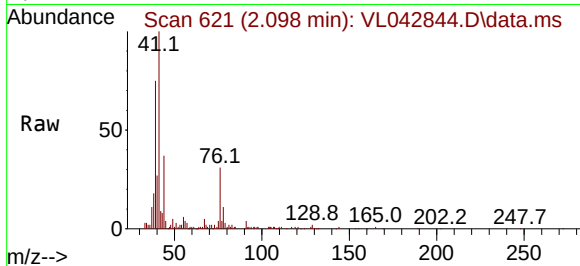
Tgt Ion: 84 Resp: 7661
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 49.2 36.0 54.0
86 51.6 52.0 78.0





#21
 Allyl Chloride
 Concen: 0.966 ppbv
 RT: 2.098 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

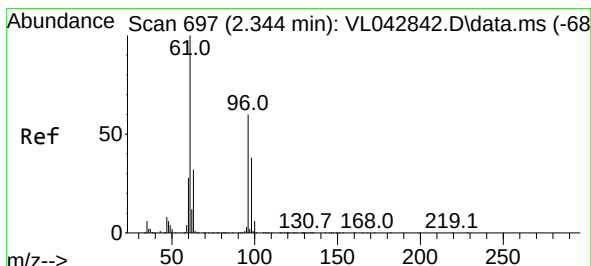
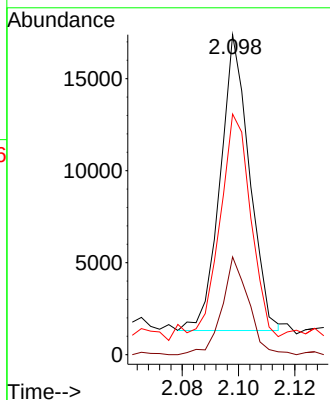
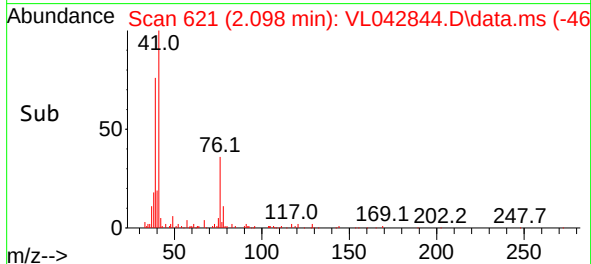
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



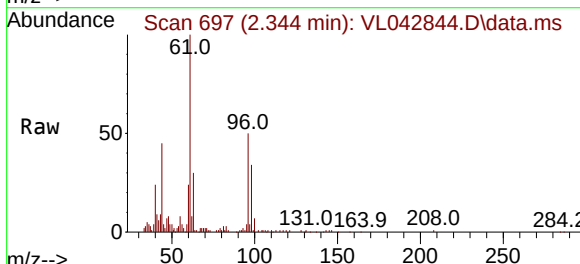
Tgt Ion: 41 Resp: 11598
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 86.2 57.8 86.6

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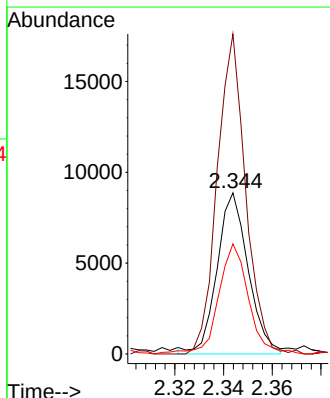
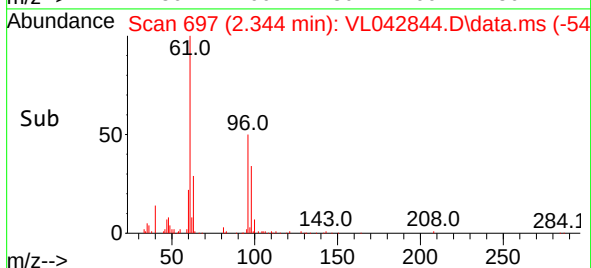
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

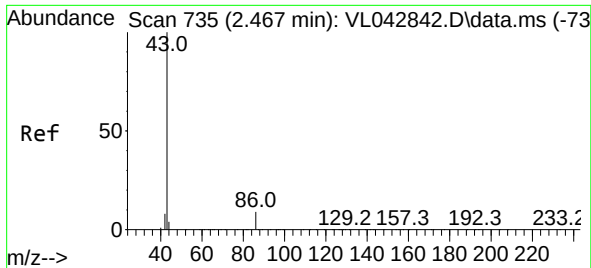


#22
 trans-1,2-Dichloroethene
 Concen: 1.082 ppbv m
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



Tgt Ion: 96 Resp: 7882
 Ion Ratio Lower Upper
 96 100
 61 198.6 132.6 199.0
 98 68.3 50.0 75.0





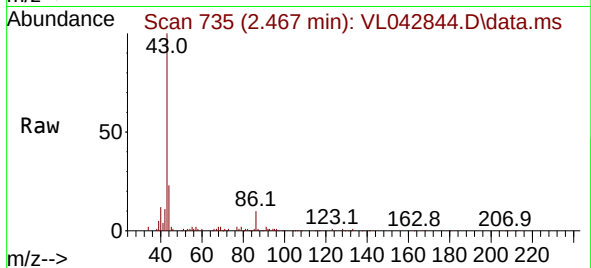
#23
 Vinyl Acetate
 Concen: 0.996 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

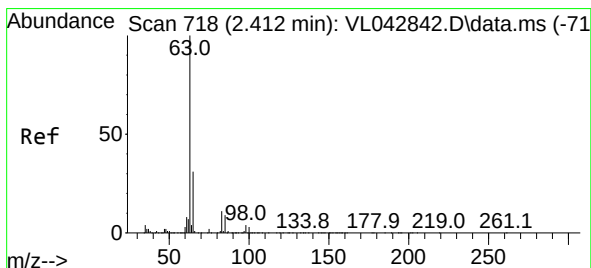
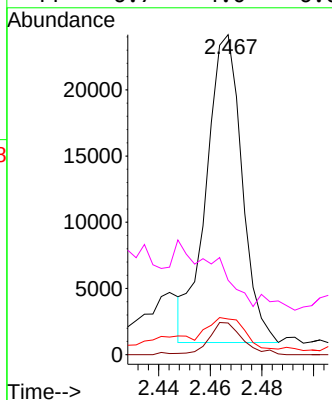
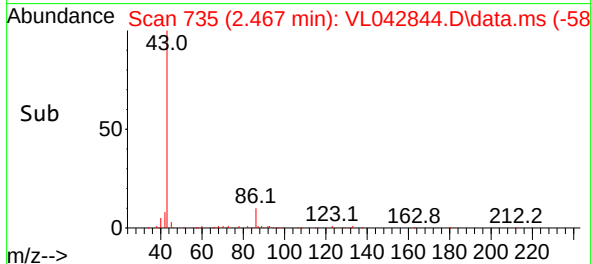


Tgt Ion:	43	Resp:	22270
Ion Ratio	100	Lower	Upper
86	10.0	6.6	9.8
42	9.8	7.0	10.6
44	6.7	4.0	6.0

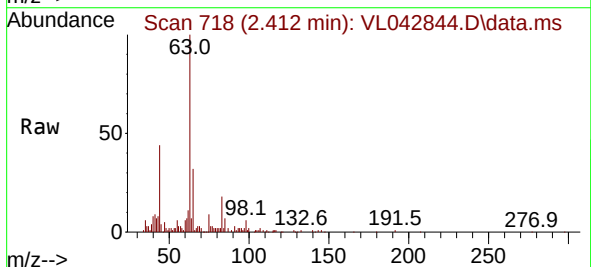
Manual Integrations

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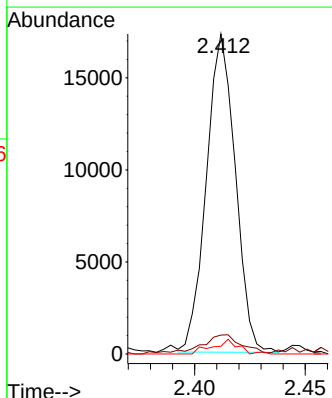
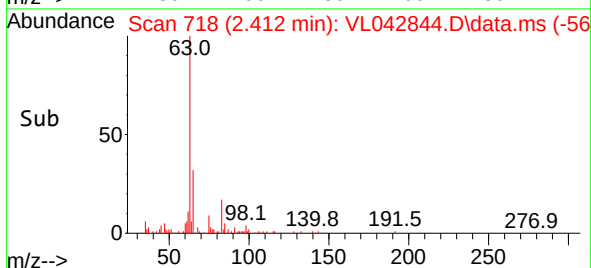
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

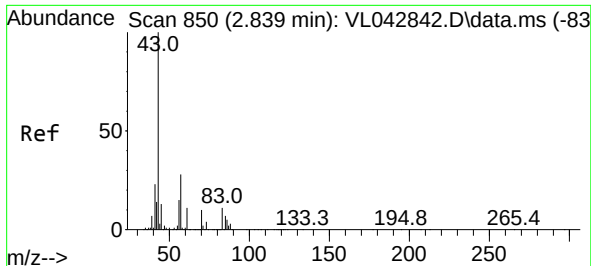


#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



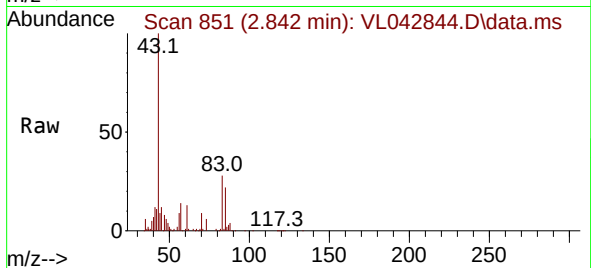
Tgt Ion:	63	Resp:	15727
Ion Ratio	100	Lower	Upper
98	4.8	2.1	6.5
100	2.4	1.7	5.1





#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

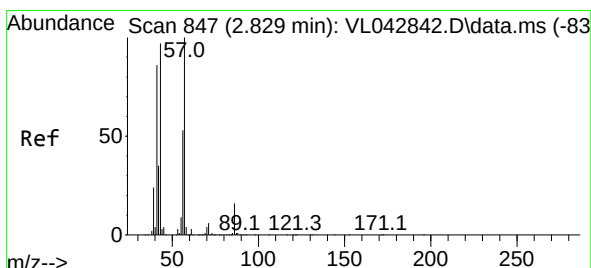
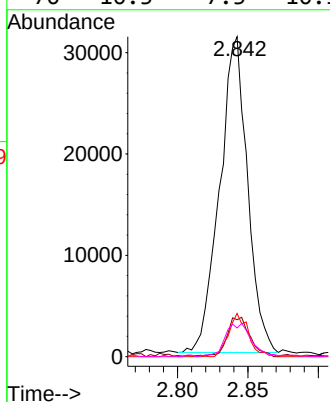
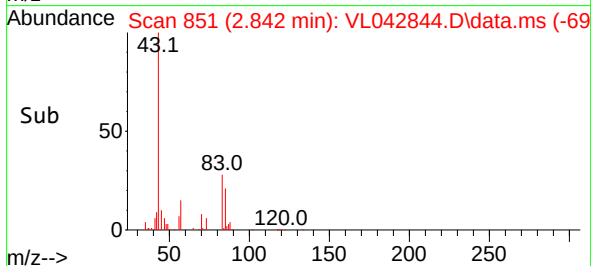
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.7	7.4	11.2
70	10.3	7.3	10.9

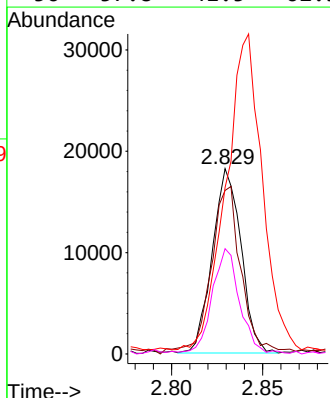
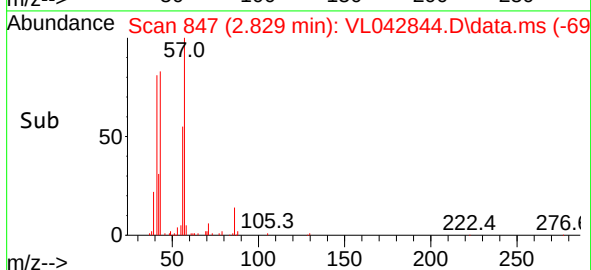
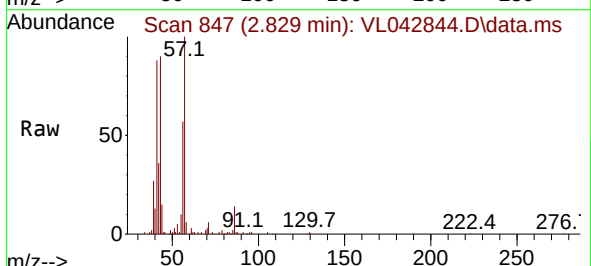
Manual Integrations
APPROVED

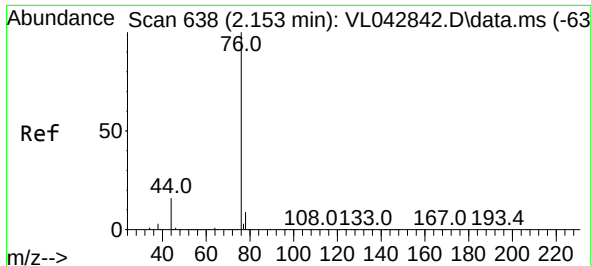
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 1.050 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.6	68.6	103.0
43	222.4	168.5	252.7
56	57.8	41.5	62.3





#27

Carbon Disulfide

Concen: 1.052 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

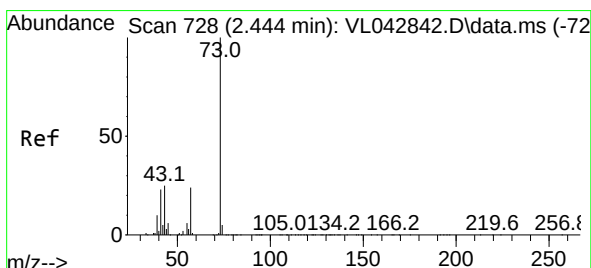
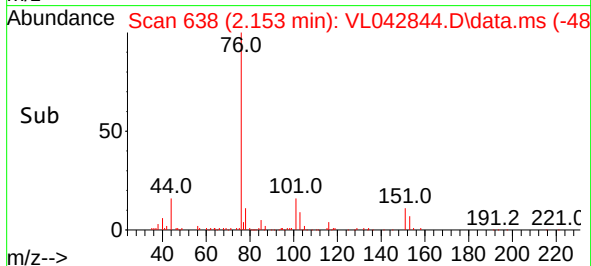
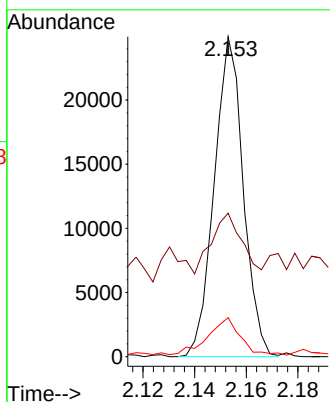
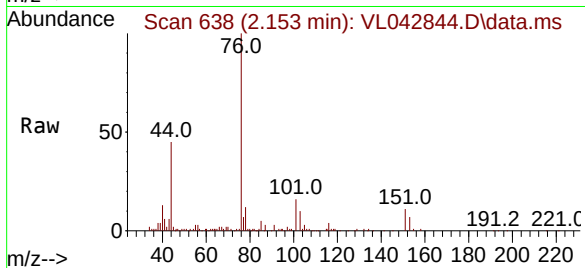
VSTDIC001

Tgt Ion: 76	Resp: 19450
Ion Ratio	Lower Upper
76 100	
44 88.3	15.9 23.9
78 17.1	9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#28

Methyl tert-Butyl Ether

Concen: 0.991 ppbv

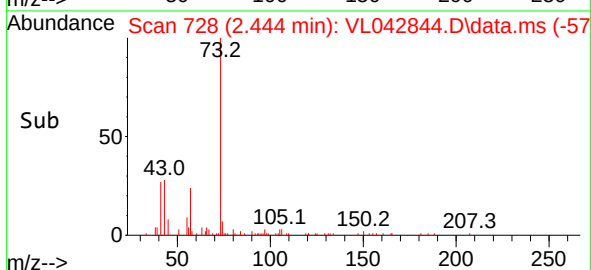
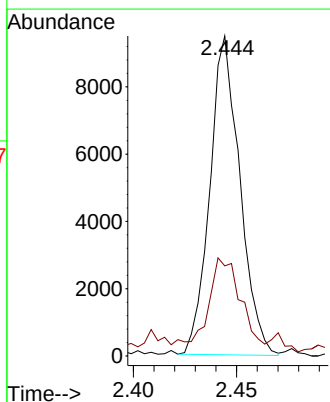
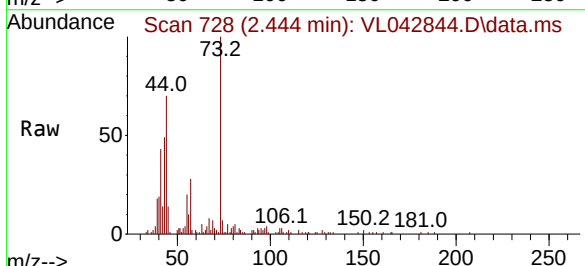
RT: 2.444 min Scan# 728

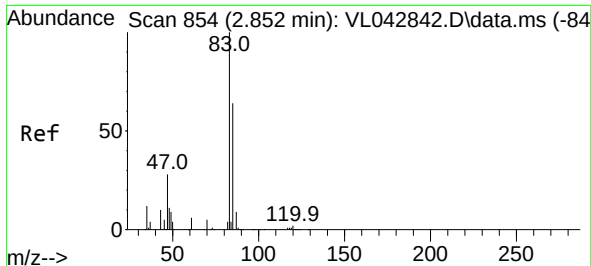
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion: 73	Resp: 9600
Ion Ratio	Lower Upper
73 100	
57 33.4	21.6 32.4





#29

Chloroform

Concen: 1.034 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2805

Ion Ratio Lower Upper

83 100

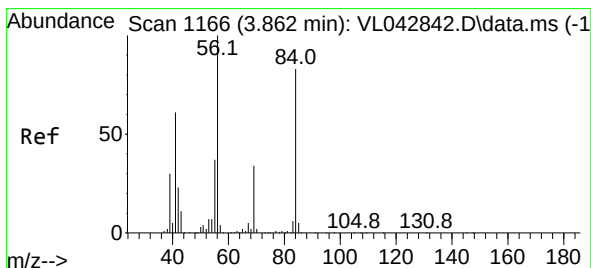
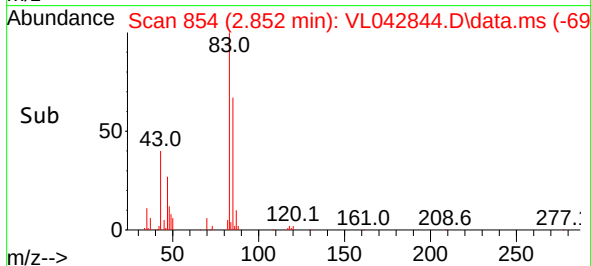
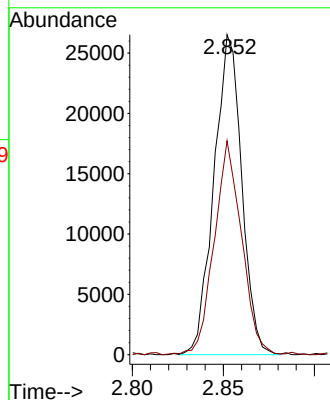
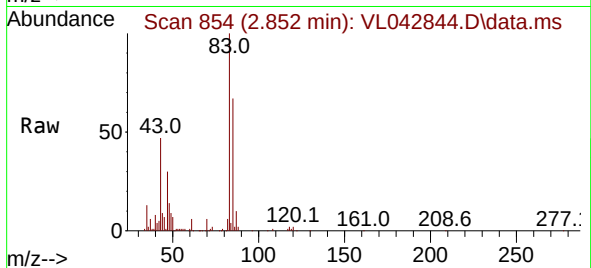
85 66.6 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 0.990 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

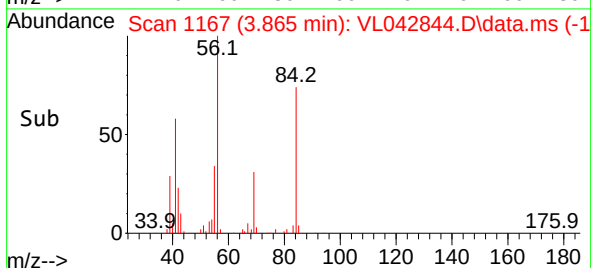
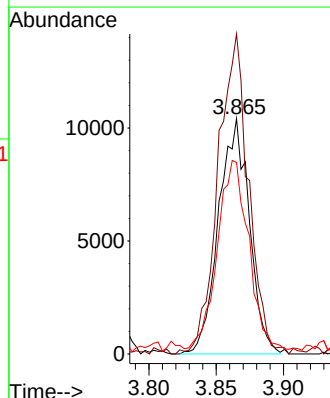
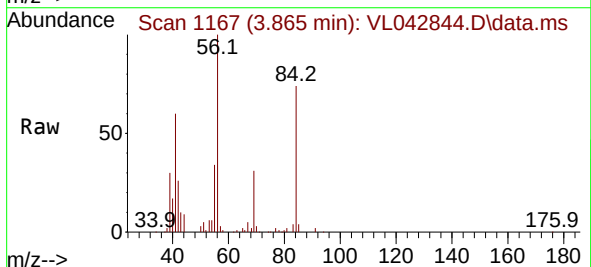
Tgt Ion: 84 Resp: 16492

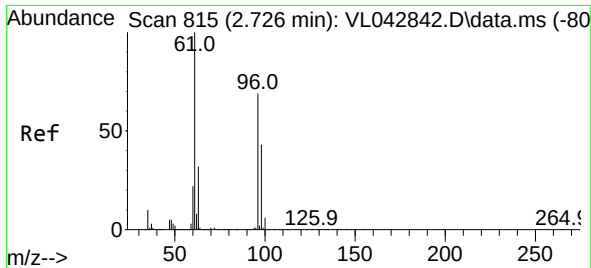
Ion Ratio Lower Upper

84 100

56 135.9 98.8 148.2

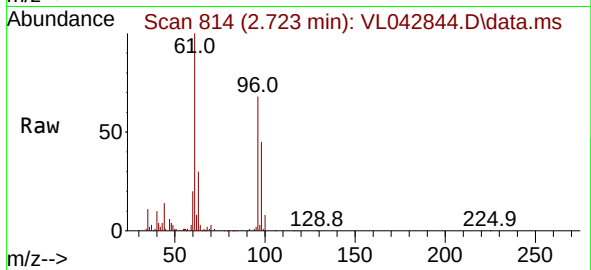
41 84.9 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 1.031 ppbv
 RT: 2.723 min Scan# 815
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

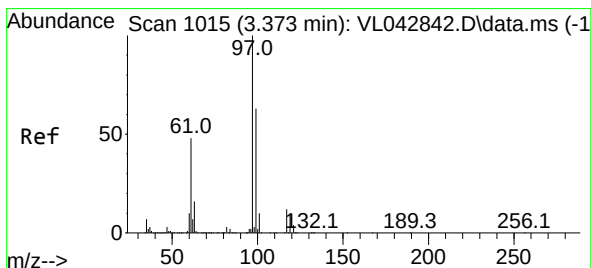
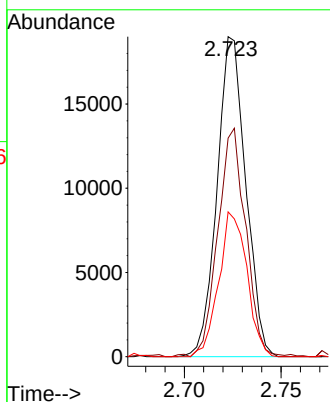
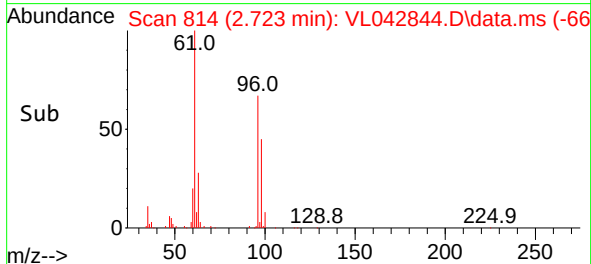
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 61 Resp: 1959
 Ion Ratio Lower Upper
 61 100
 96 67.7 55.0 82.6
 98 45.2 34.3 51.5

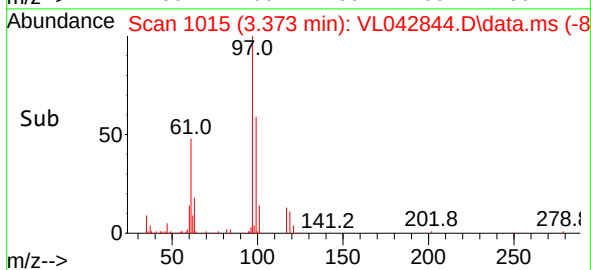
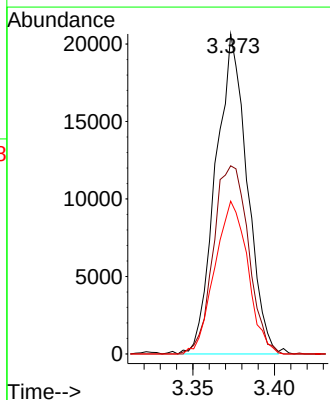
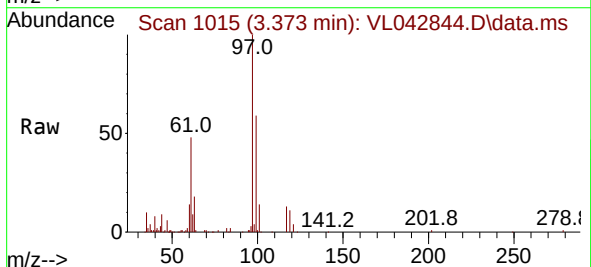
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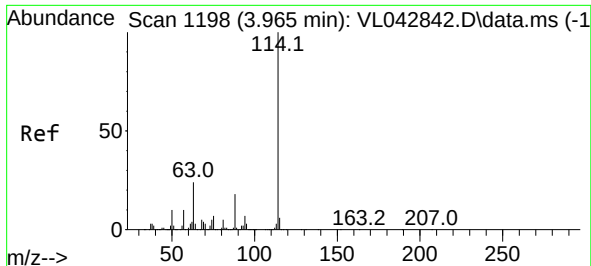
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.961 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 97 Resp: 27607
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.0 76.6
 61 50.2 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 40030

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

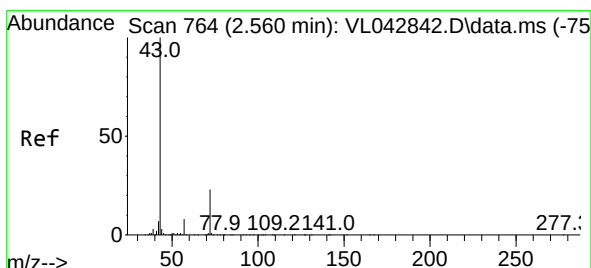
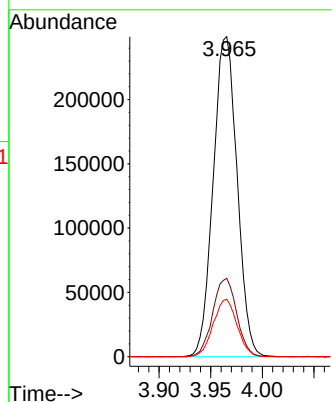
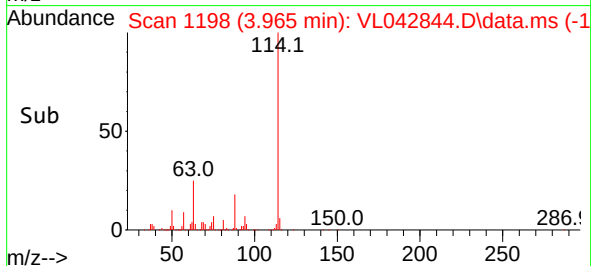
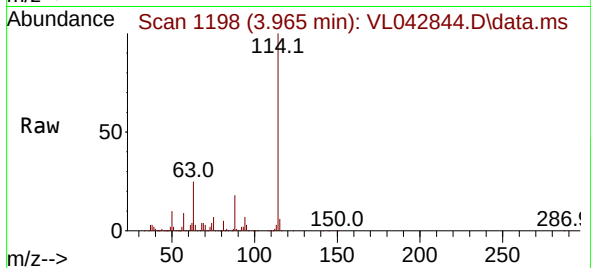
88 17.9 14.4 21.6

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 1.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042844.D

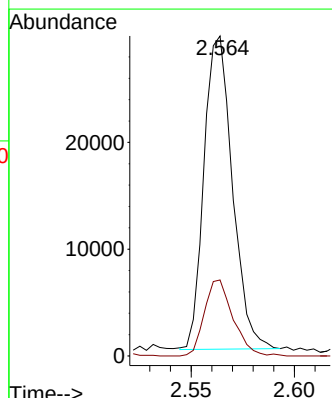
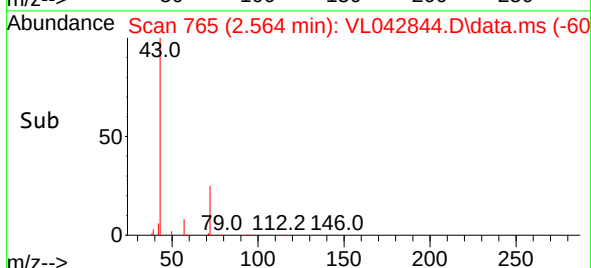
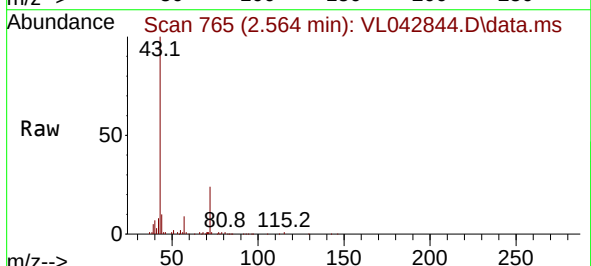
Acq: 13 Aug 2025 09:41

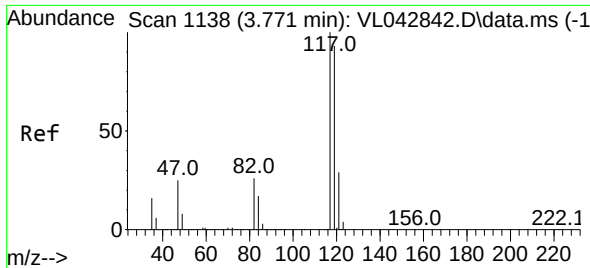
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

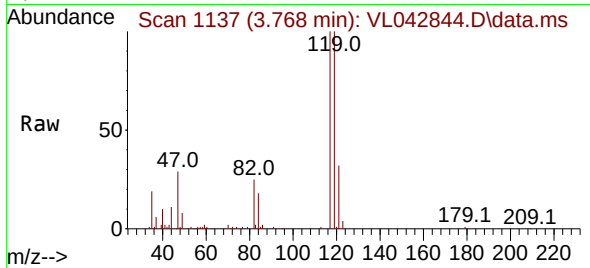
72 24.4 18.6 28.0





#35
Carbon Tetrachloride
Concen: 1.015 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

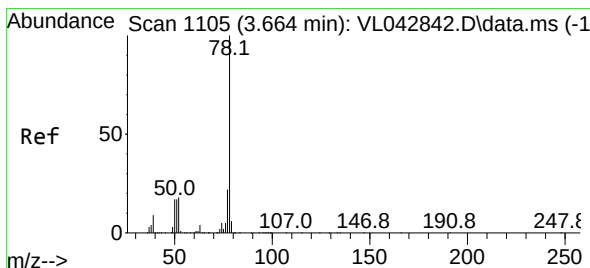
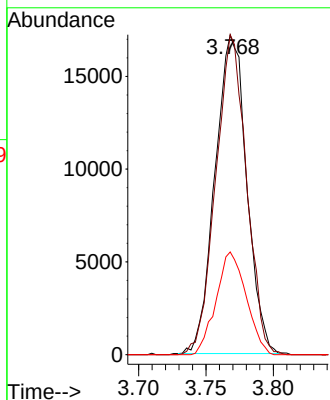
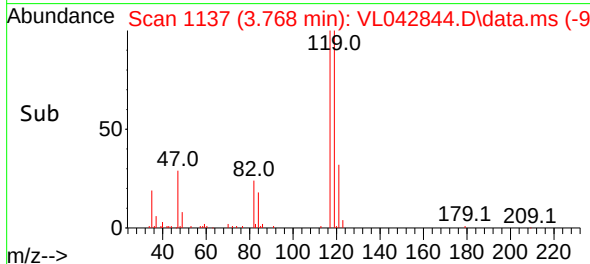
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



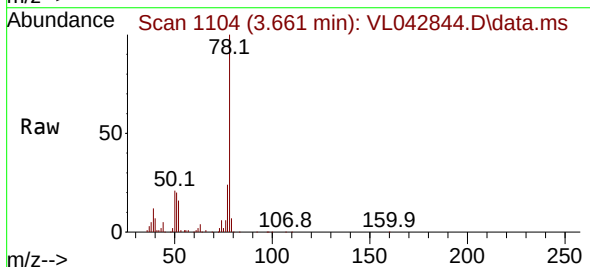
Tgt Ion: 117 Resp: 2800
Ion Ratio Lower Upper
117 100
119 100.5 74.7 112.1
121 32.3 23.2 34.8

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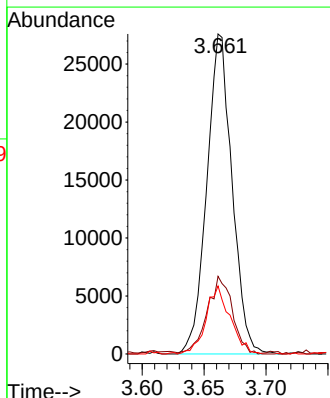
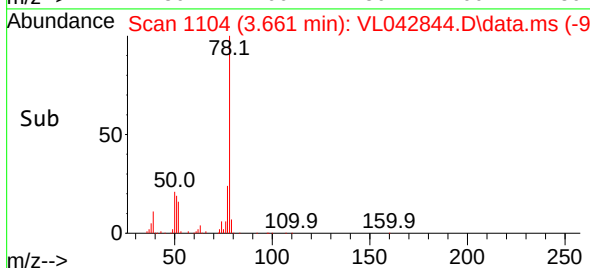
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

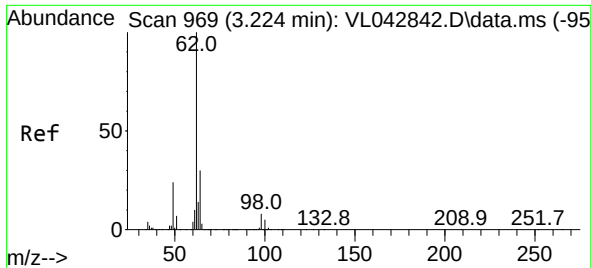


#36
Benzene
Concen: 1.021 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion: 78 Resp: 39137
Ion Ratio Lower Upper
78 100
77 23.8 17.7 26.5
50 21.1 13.9 20.9#





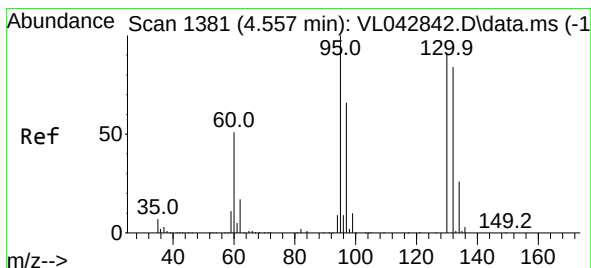
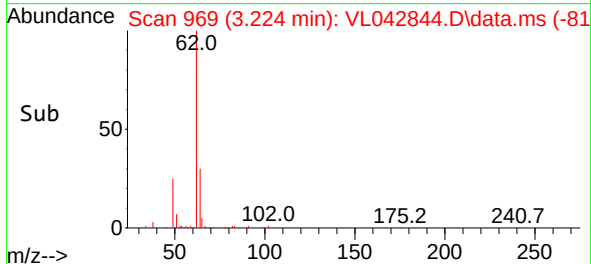
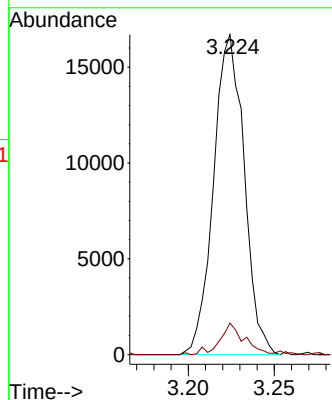
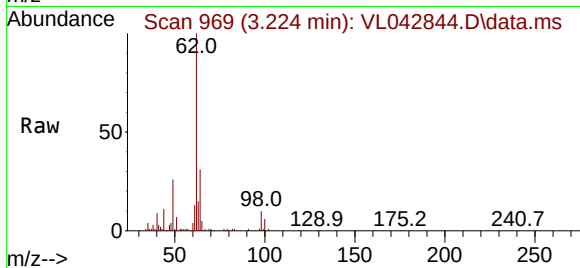
#37
1,2-Dichloroethane
Concen: 1.031 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 2064
Ion Ratio Lower Upper
62 100
98 8.4 5.9 8.9

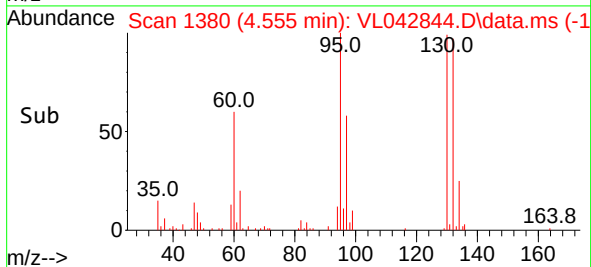
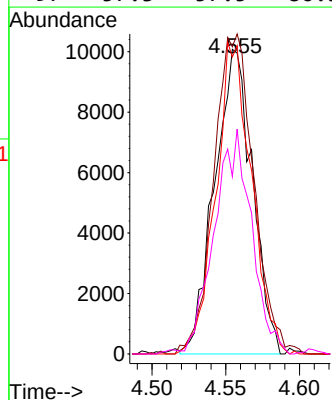
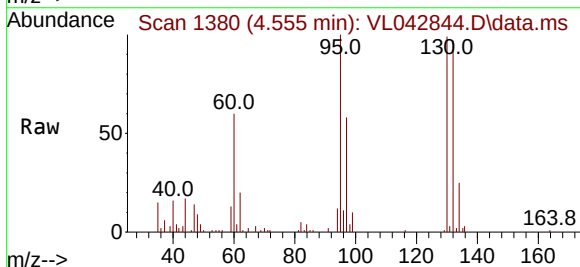
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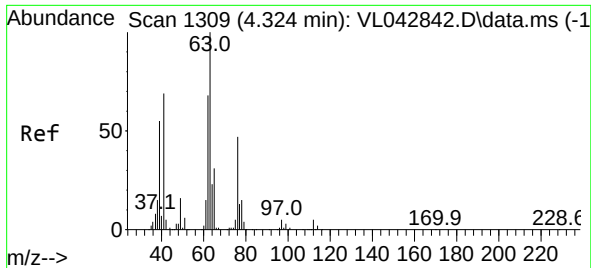
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 1.024 ppbv
RT: 4.555 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

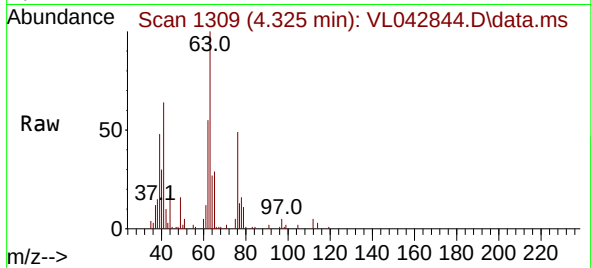
Tgt Ion:130 Resp: 17921
Ion Ratio Lower Upper
130 100
95 97.9 87.6 131.4
132 96.6 73.8 110.8
97 57.3 57.5 86.3#





#39
 1,2-Dichloropropane
 Concen: 1.042 ppbv m
 RT: 4.325 min Scan# 1309
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

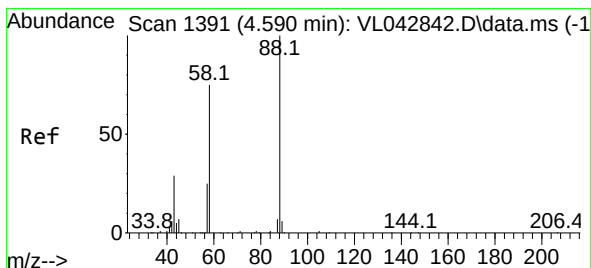
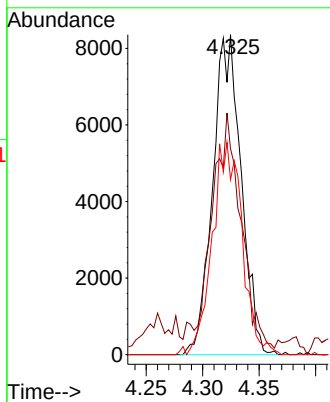
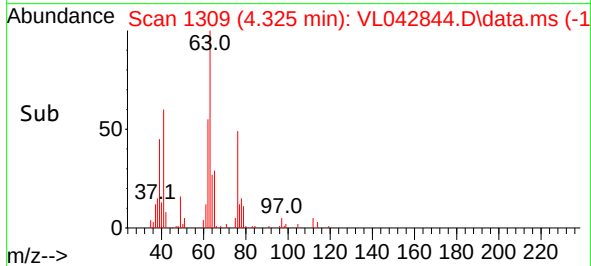
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



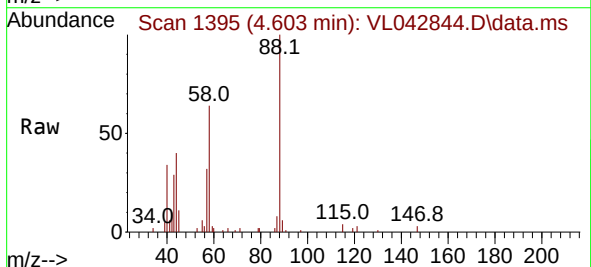
Tgt Ion: 63 Resp: 1459
 Ion Ratio Lower Upper
 63 100
 41 64.4 55.0 82.4
 62 54.7 54.4 81.6

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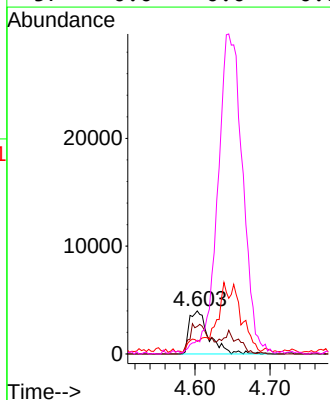
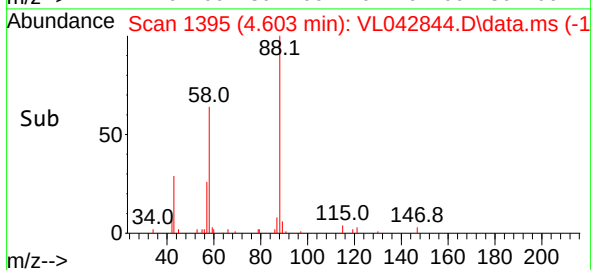
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

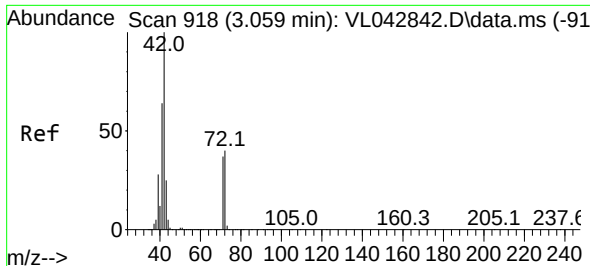


#40
 1,4-Dioxane
 Concen: 1.127 ppbv m
 RT: 4.603 min Scan# 1395
 Delta R.T. 0.013 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



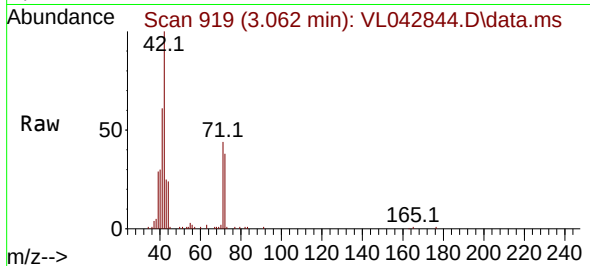
Tgt Ion: 88 Resp: 7386
 Ion Ratio Lower Upper
 88 100
 58 0.0 53.8 80.6#
 43 0.0 22.8 34.2#
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

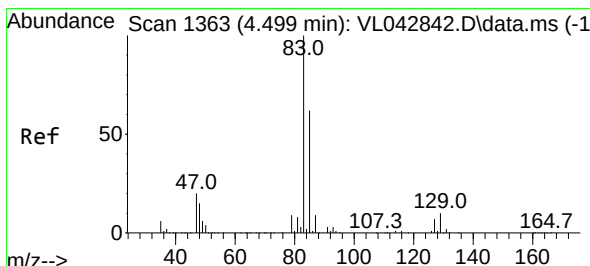
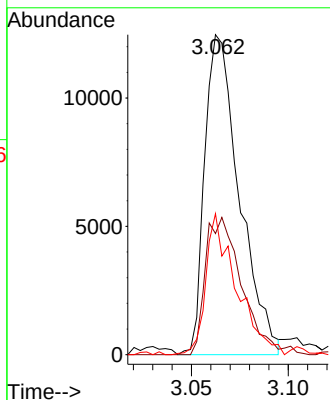
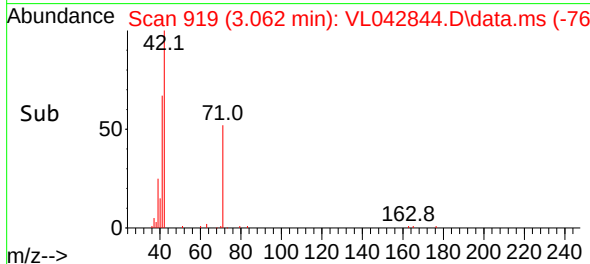
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 42 Resp: 1555
Ion Ratio Lower Upper
42 100
72 45.4 32.6 48.8
71 40.1 30.0 45.0

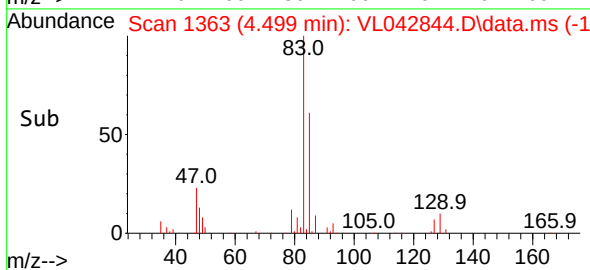
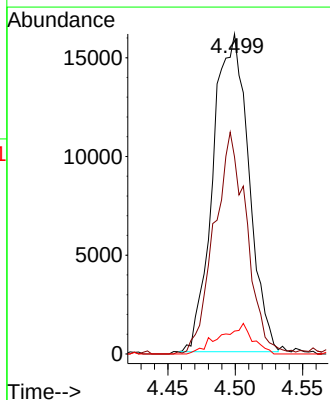
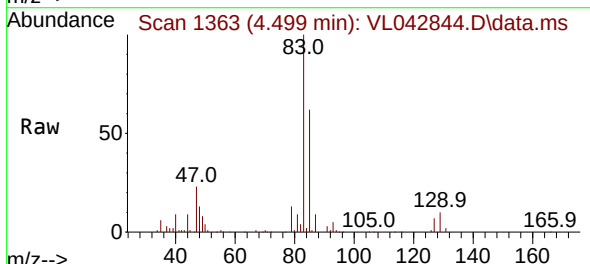
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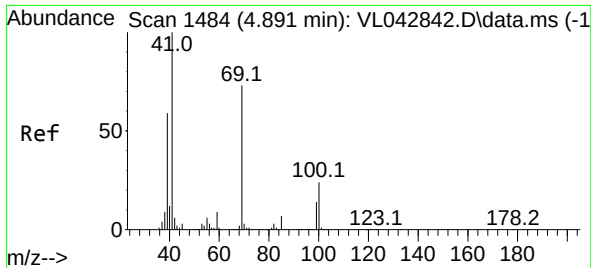
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 0.995 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 83 Resp: 29683
Ion Ratio Lower Upper
83 100
85 61.3 49.8 74.8
127 7.2 5.8 8.6





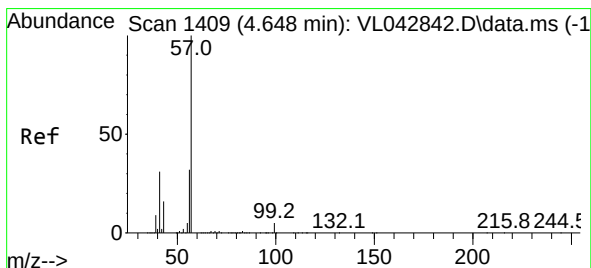
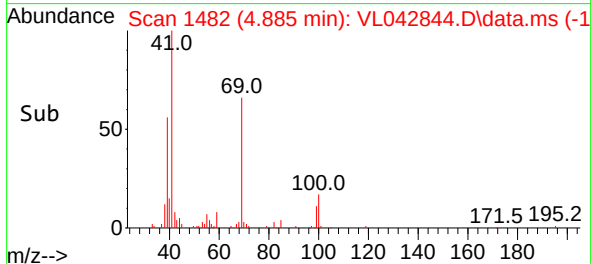
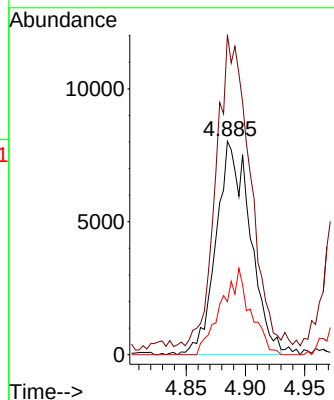
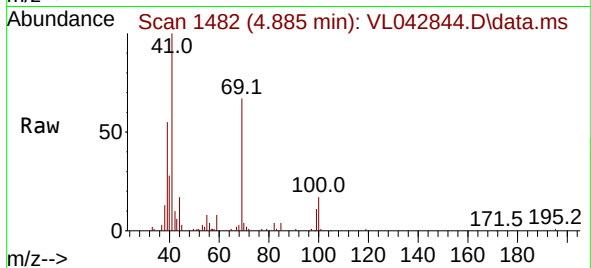
#43
Methyl Methacrylate
Concen: 1.022 ppbv m
RT: 4.885 min Scan# 1482
Delta R.T. -0.006 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 1607
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 35.1 30.2 45.4

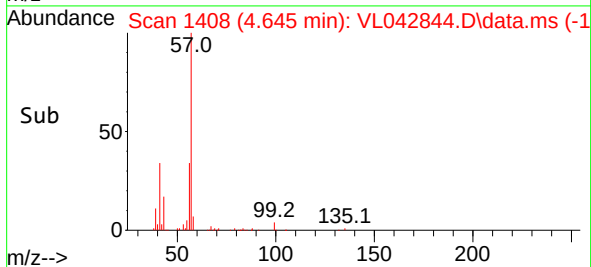
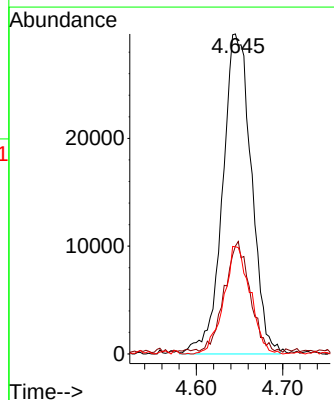
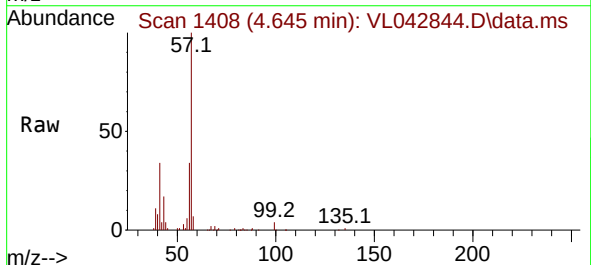
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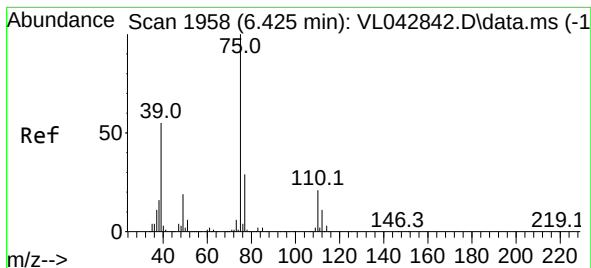
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#44
2,2,4-Trimethylpentane
Concen: 1.069 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 57 Resp: 68813
Ion Ratio Lower Upper
57 100
41 32.7 24.8 37.2
56 31.3 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 1.042 ppbv m

RT: 6.419 min Scan# 1958

Delta R.T. -0.006 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 18580

Ion Ratio Lower Upper

75 100

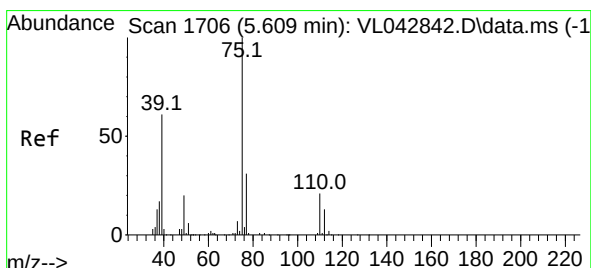
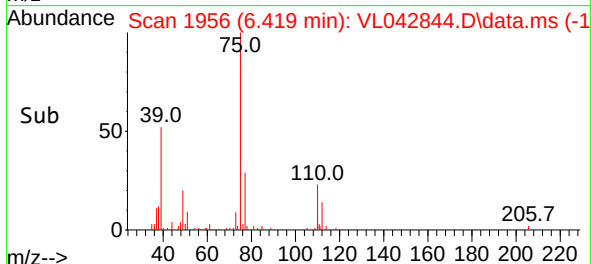
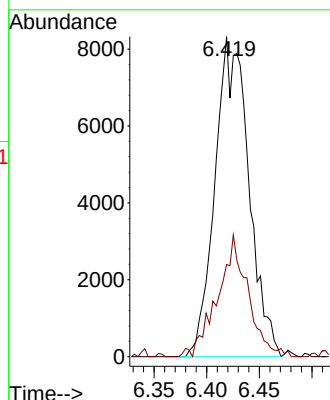
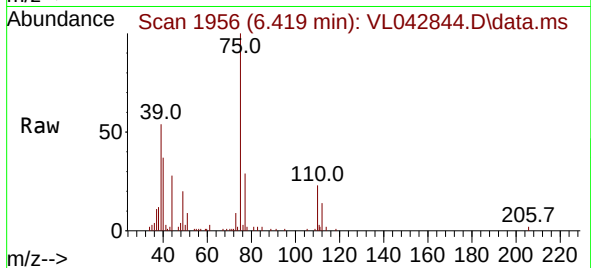
77 28.8 23.8 35.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#46

cis-1,3-Dichloropropene

Concen: 0.999 ppbv

RT: 5.610 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

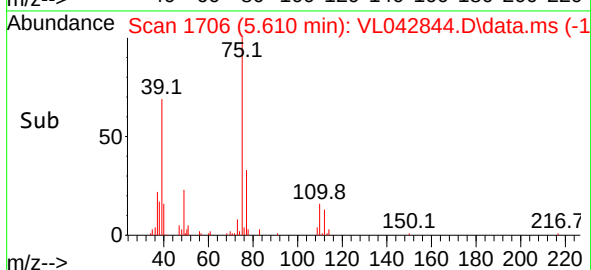
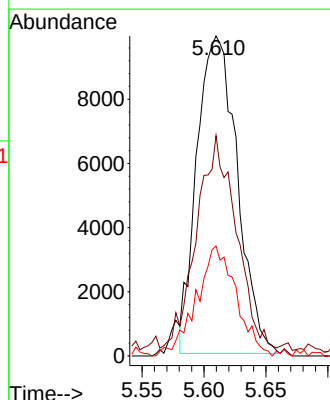
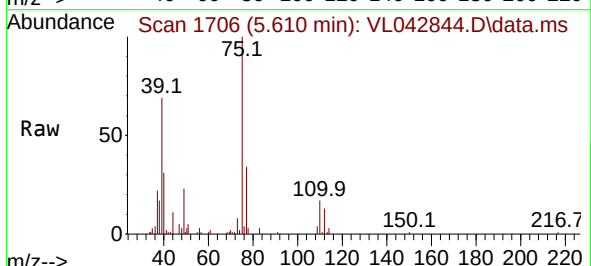
Tgt Ion: 75 Resp: 22372

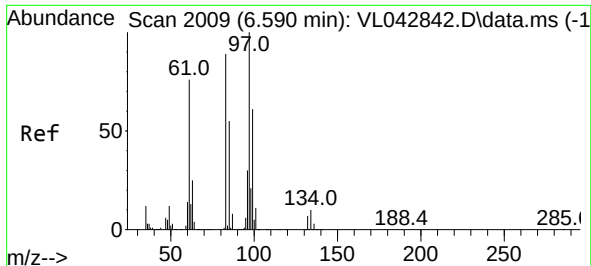
Ion Ratio Lower Upper

75 100

39 66.4 48.9 73.3

77 33.8 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 1.032 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

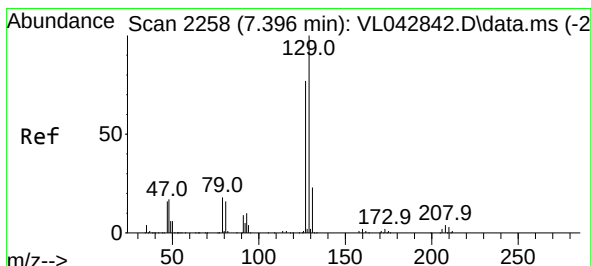
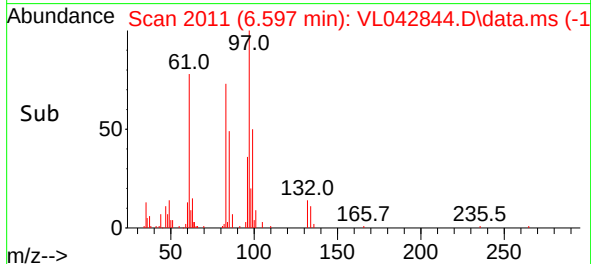
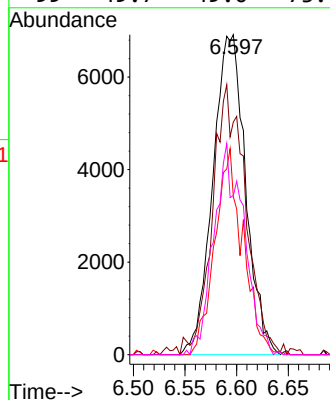
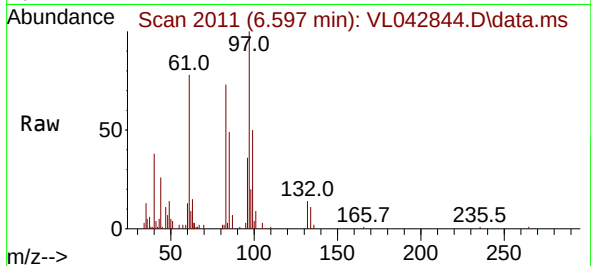
VSTDIC001

Tgt Ion: 97	Resp: 1529
Ion Ratio	Lower Upper
97 100	
83 72.7	71.0 106.4
85 49.4	43.6 65.4
99 49.7	49.0 73.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 1.009 ppbv

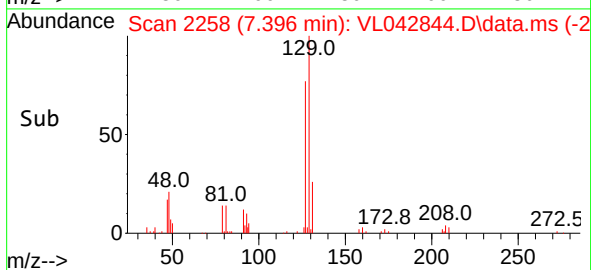
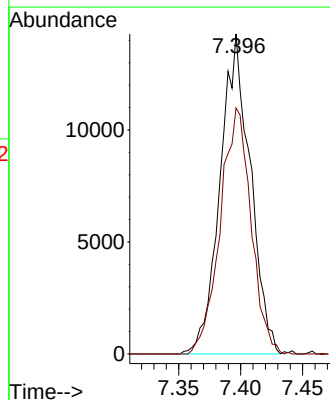
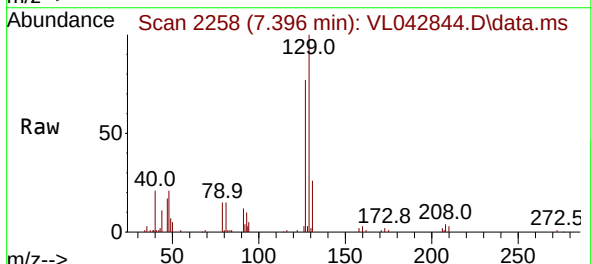
RT: 7.396 min Scan# 2258

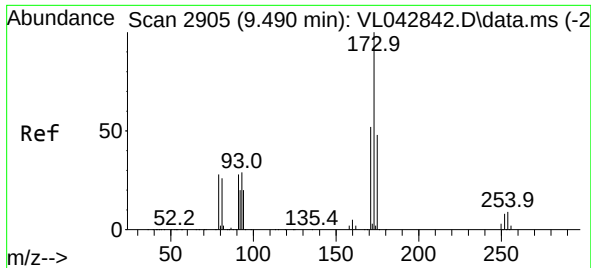
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:129	Resp: 24214
Ion Ratio	Lower Upper
129 100	
127 78.2	39.4 118.2





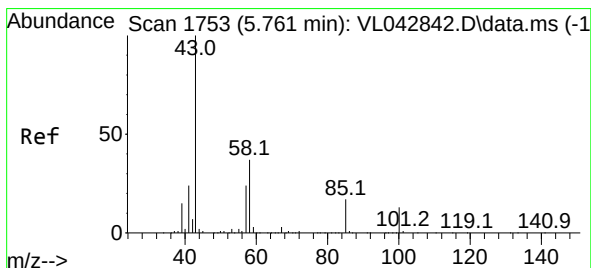
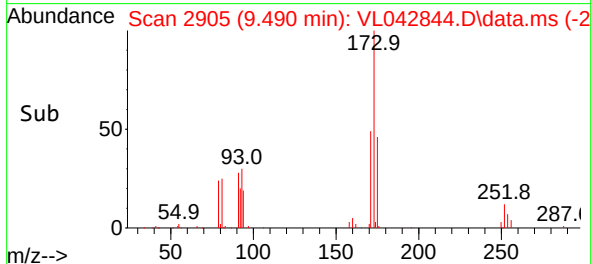
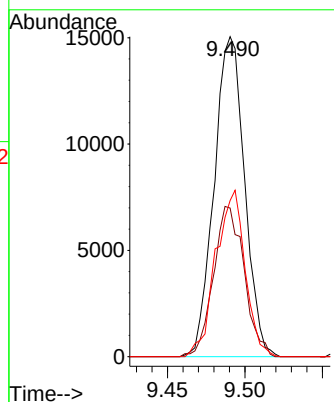
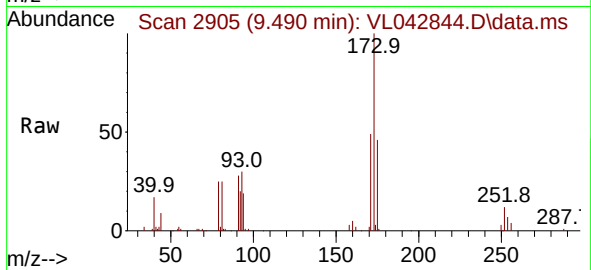
#49
Bromoform
Concen: 1.040 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:173 Resp: 20579
Ion Ratio Lower Upper
173 100
175 47.3 39.2 58.8
171 50.3 41.3 61.9

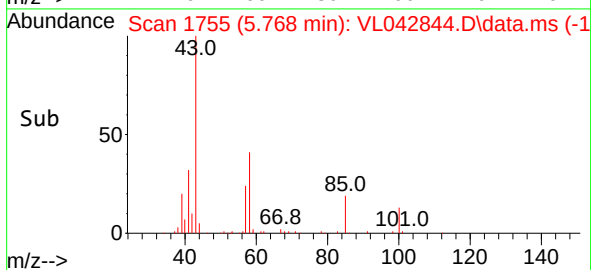
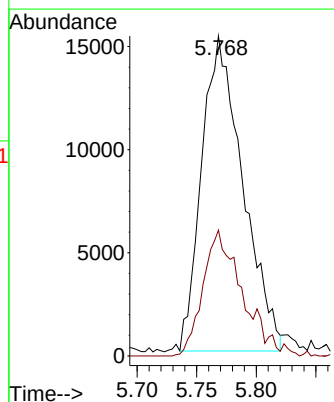
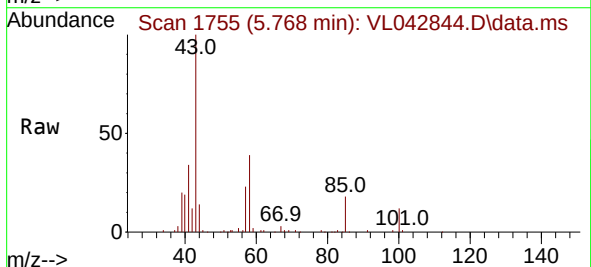
Manual Integrations
APPROVED

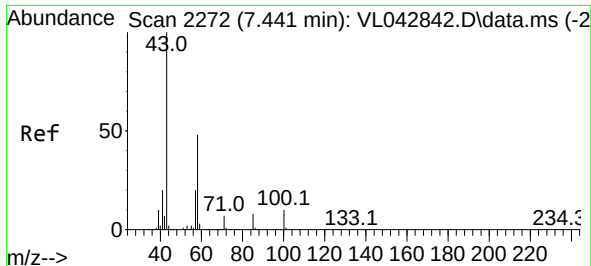
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 1.001 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

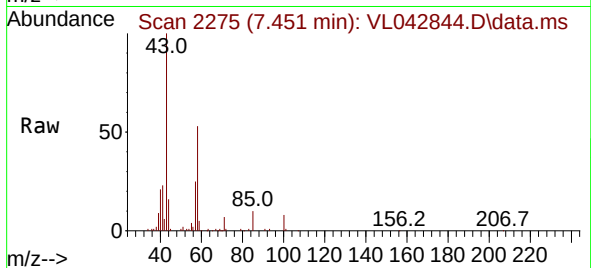
Tgt Ion: 43 Resp: 36710
Ion Ratio Lower Upper
43 100
58 38.3 29.8 44.8





#51
2-Hexanone
Concen: 1.026 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

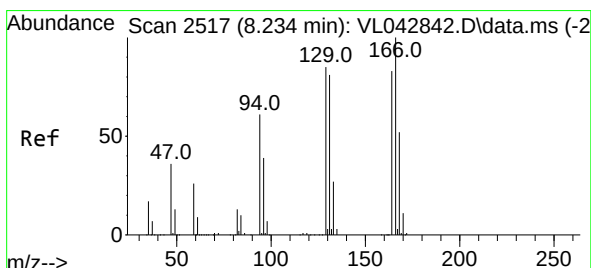
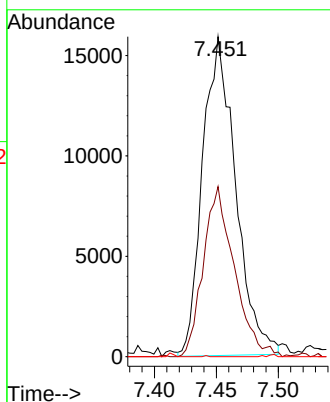
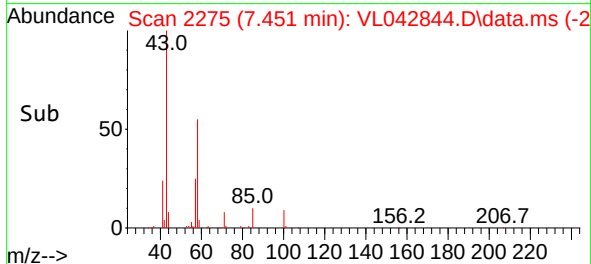
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 2948
Ion Ratio Lower Upper
43 100
58 50.6 41.0 61.6
98 0.2 0.1 0.1

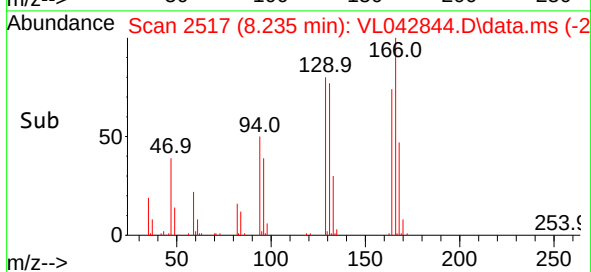
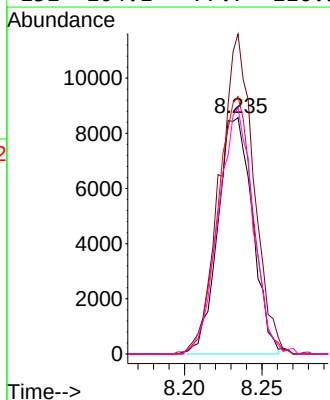
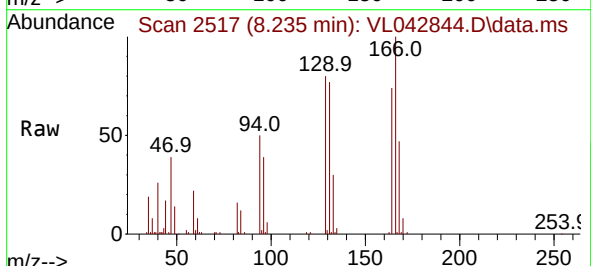
Manual Integrations
APPROVED

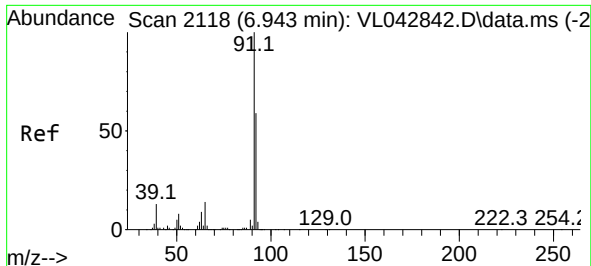
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 0.960 ppbv
RT: 8.235 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

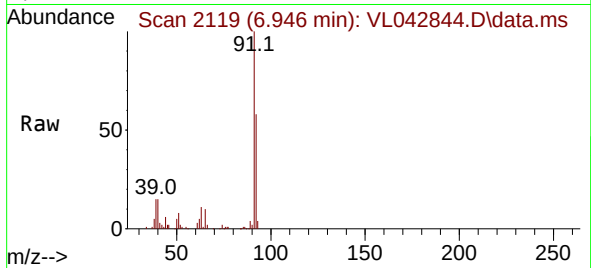
Tgt Ion:164 Resp: 13322
Ion Ratio Lower Upper
164 100
166 135.4 96.5 144.7
129 110.5 81.8 122.6
131 104.1 77.7 116.5





#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

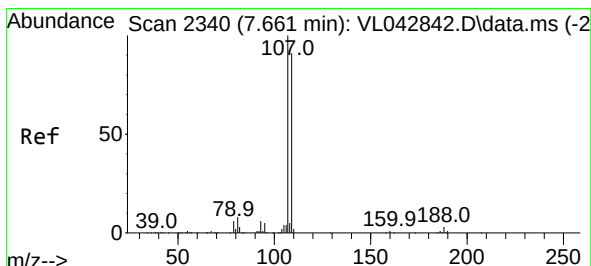
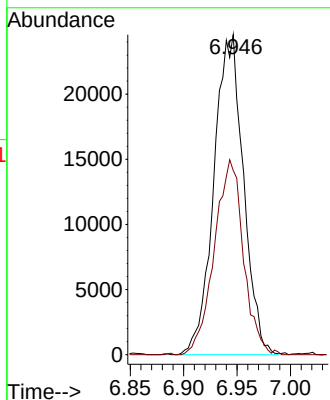
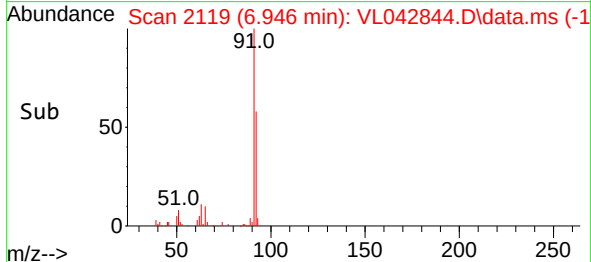
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



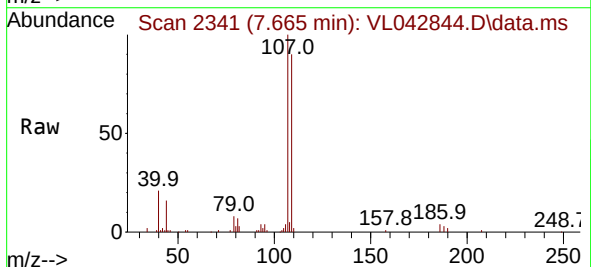
Tgt Ion: 91 Resp: 47250
Ion Ratio Lower Upper
91 100
92 60.1 47.8 71.6

Manual Integrations
APPROVED

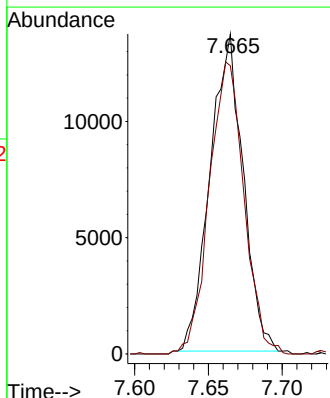
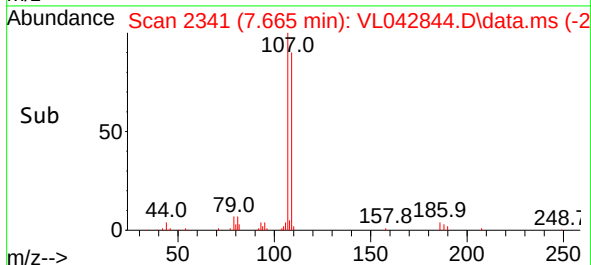
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

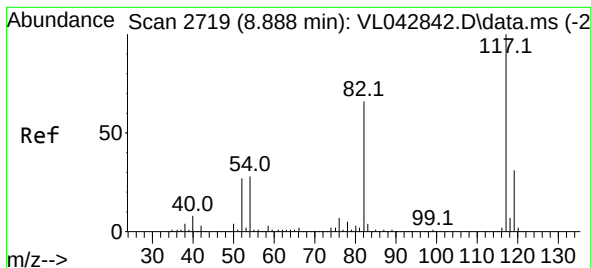


#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion:107 Resp: 21280
Ion Ratio Lower Upper
107 100
109 89.9 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

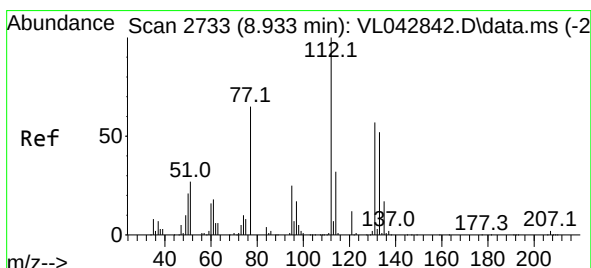
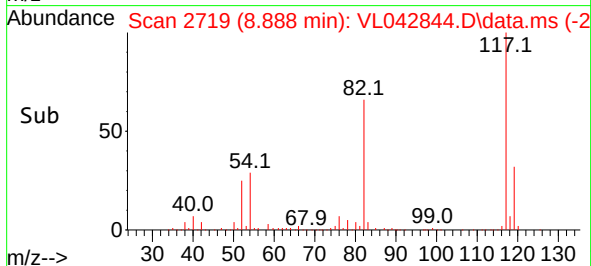
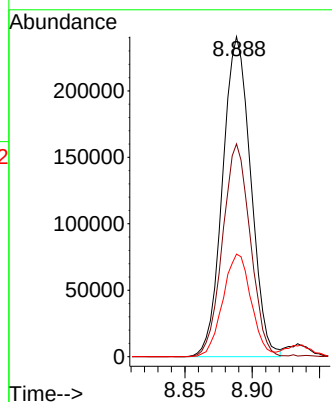
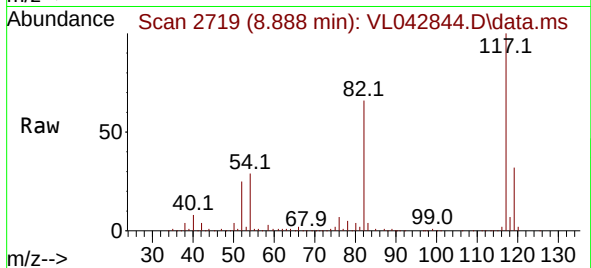
Tgt Ion:117 Resp: 34957

Ion	Ratio	Lower	Upper
117	100		
82	65.9	54.6	81.8
119	32.9	25.9	38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.061 ppbv

RT: 8.930 min Scan# 2732

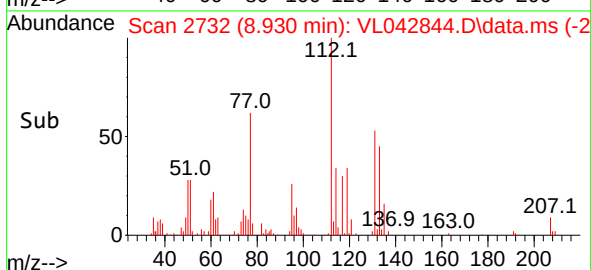
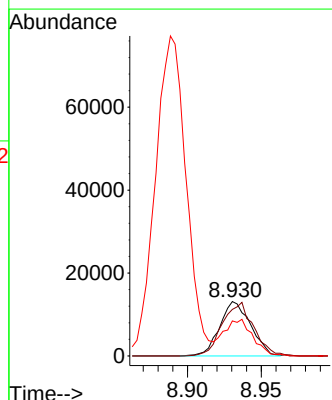
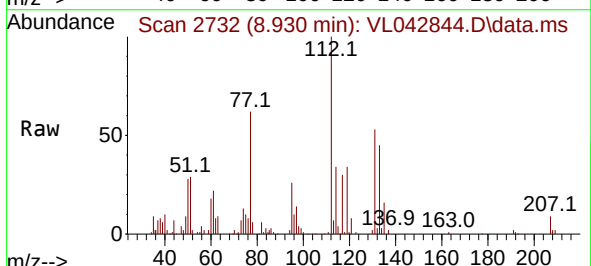
Delta R.T. -0.003 min

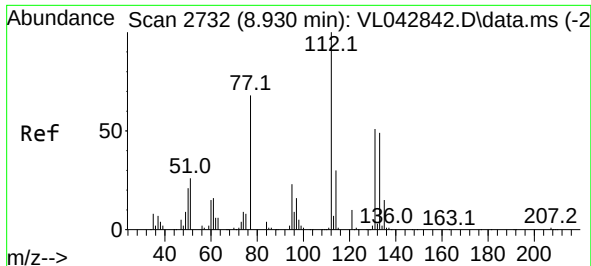
Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:131 Resp: 19176

Ion	Ratio	Lower	Upper
131	100		
133	99.8	77.4	116.0
119	59.0	51.2	76.8





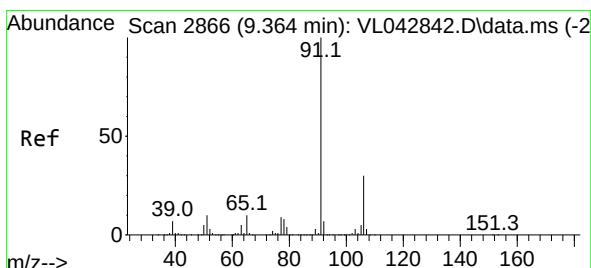
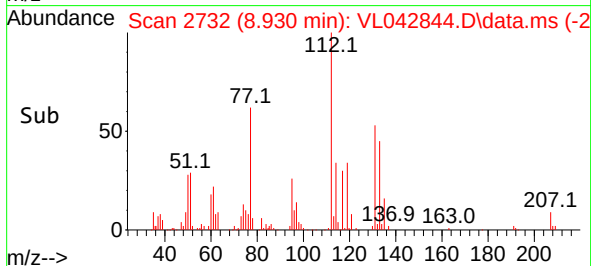
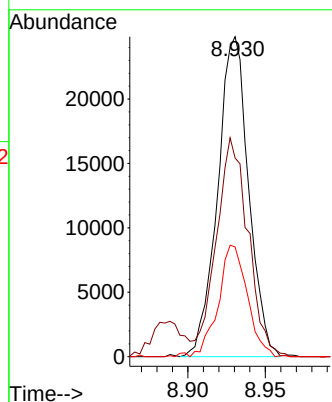
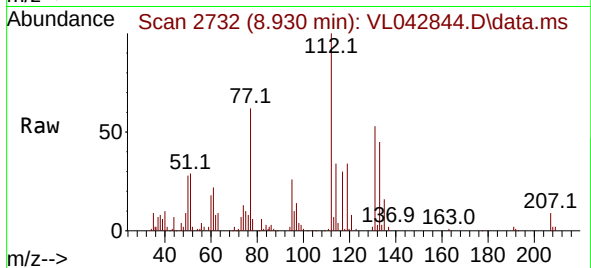
#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:112 Resp: 3461
Ion Ratio Lower Upper
112 100
77 61.0 55.5 83.3
114 34.0 27.2 33.2

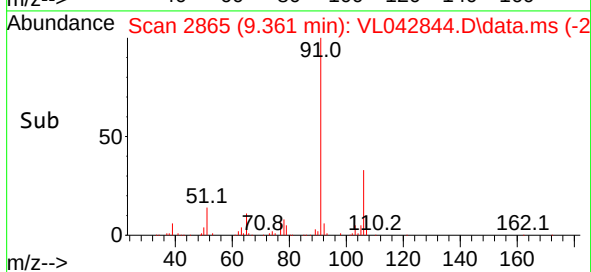
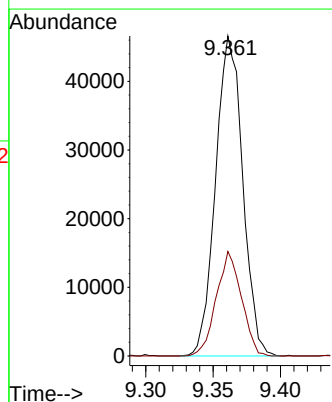
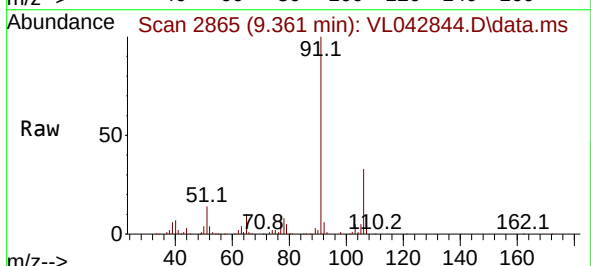
Manual Integrations
APPROVED

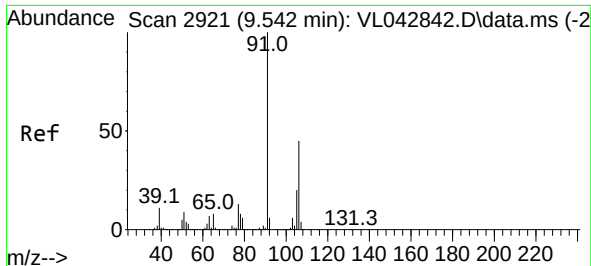
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 1.057 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 65223
Ion Ratio Lower Upper
91 100
106 32.7 23.9 35.9





#59

m/p-Xylene

Concen: 2.098 ppbv m

RT: 9.558 min Scan# 2921

Delta R.T. 0.016 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 101634

Ion Ratio Lower Upper

91 100

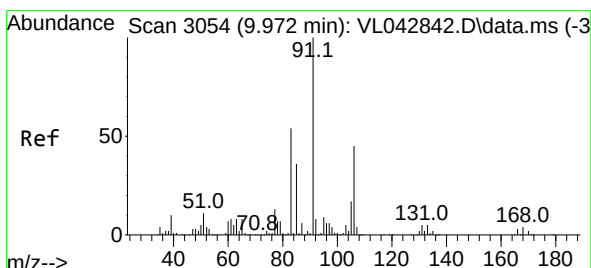
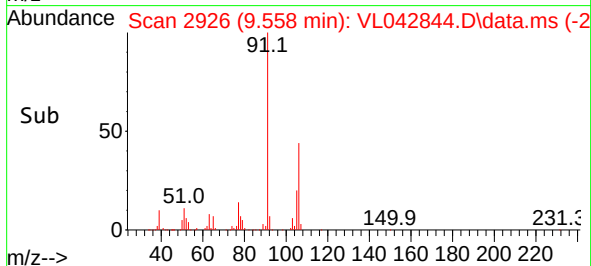
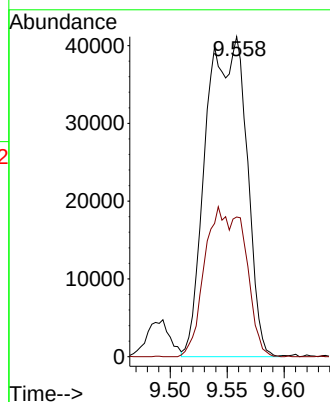
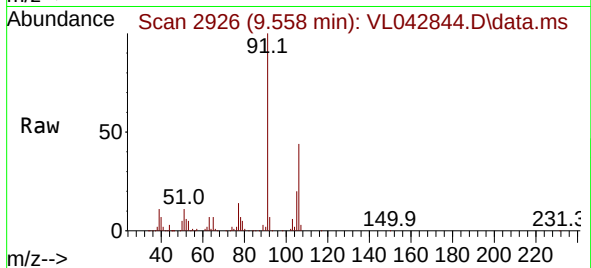
106 46.6 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 1.058 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042844.D

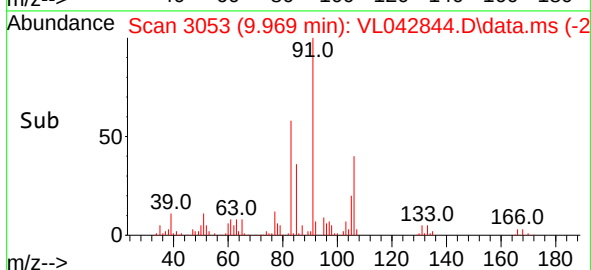
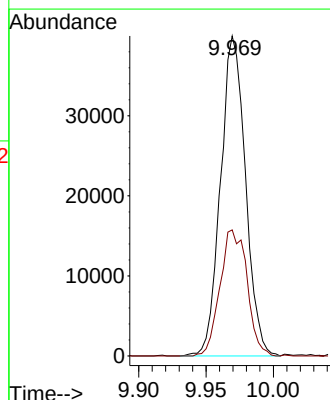
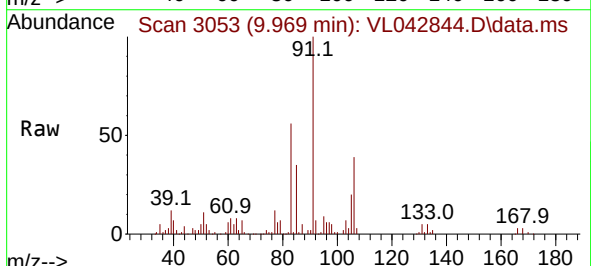
Acq: 13 Aug 2025 09:41

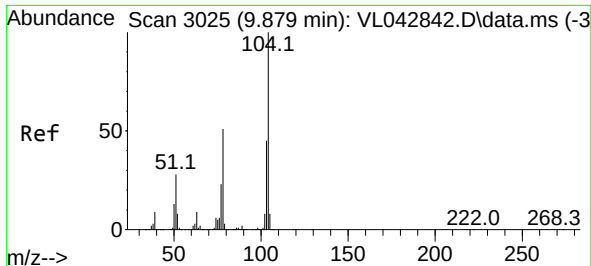
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4





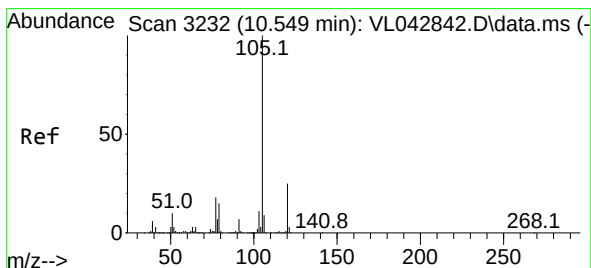
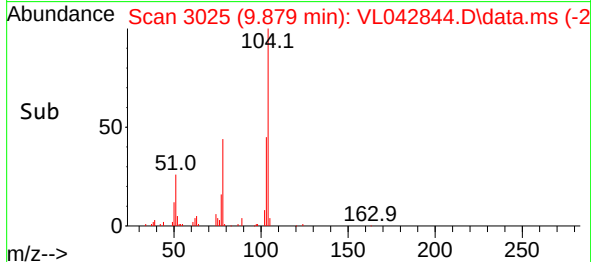
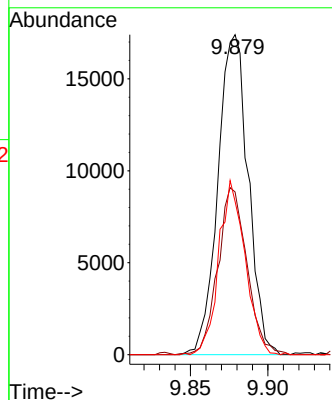
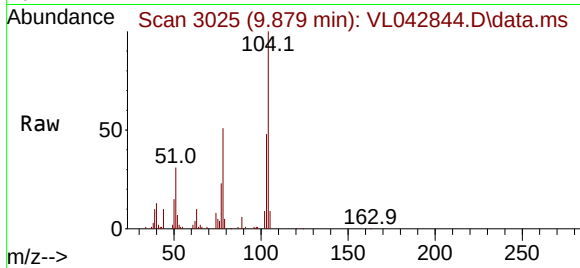
#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 23660
Ion Ratio Lower Upper
104 100
78 50.4 40.6 61.0
103 47.3 37.7 56.5

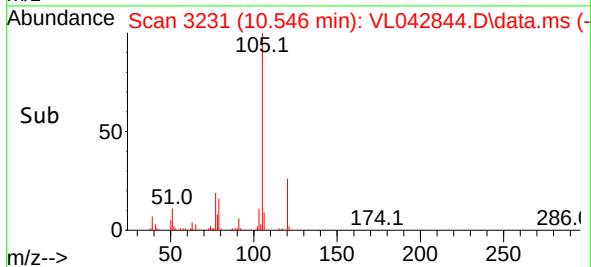
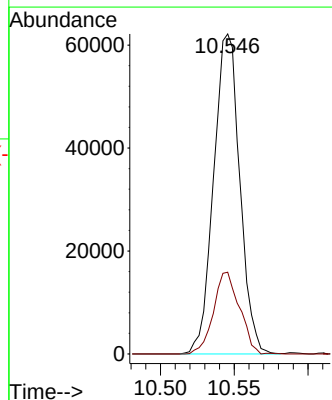
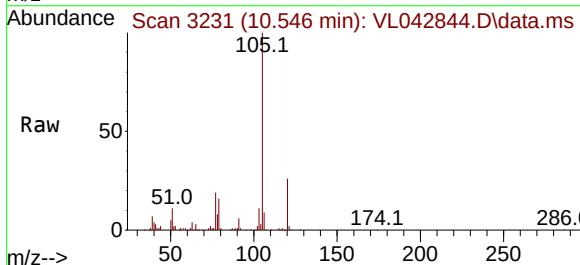
Manual Integrations
APPROVED

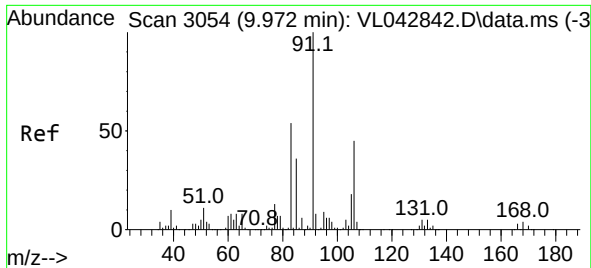
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 1.079 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

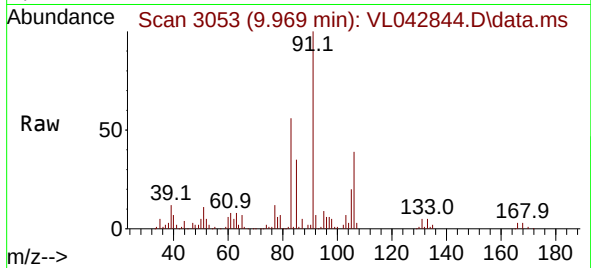
Tgt Ion:105 Resp: 76708
Ion Ratio Lower Upper
105 100
120 25.4 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.032 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

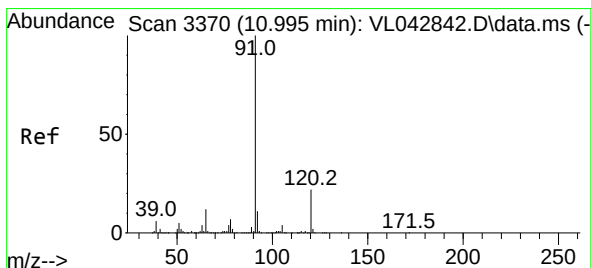
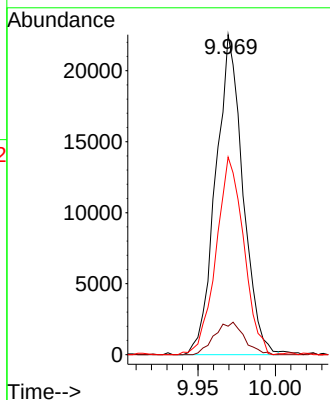
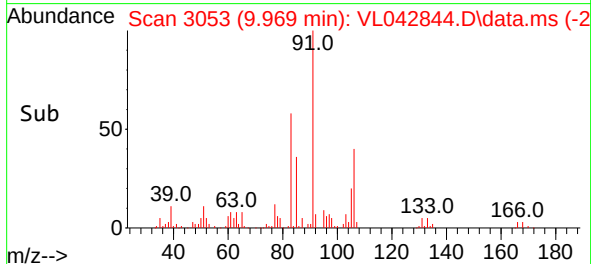
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 83 Resp: 27410
Ion Ratio Lower Upper
83 100
131 11.2 4.8 14.3
85 63.5 32.3 96.8

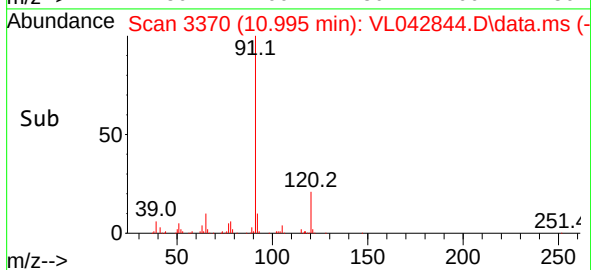
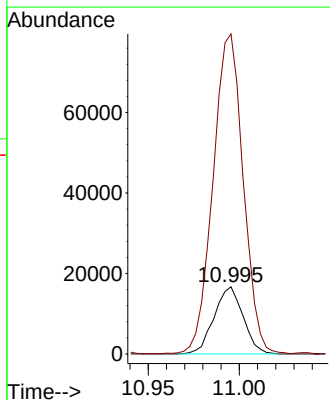
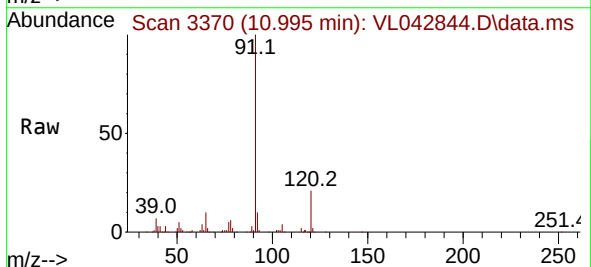
Manual Integrations
APPROVED

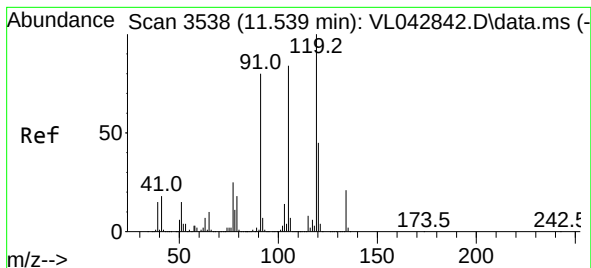
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#64
n-propylbenzene
Concen: 1.018 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

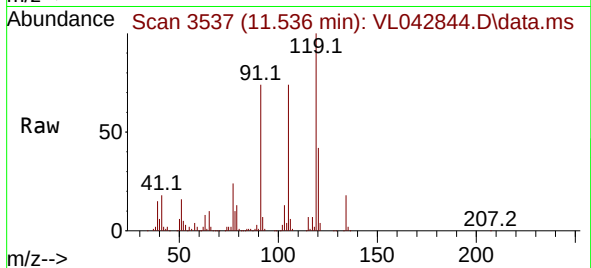
Tgt Ion:120 Resp: 18462
Ion Ratio Lower Upper
120 100
91 496.0 375.8 563.6





#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

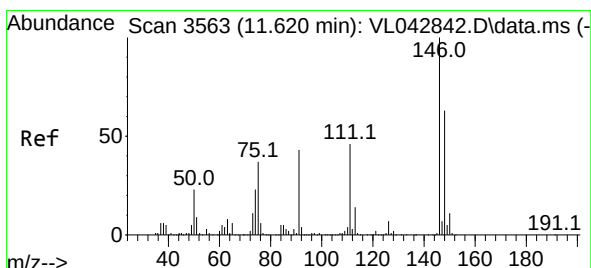
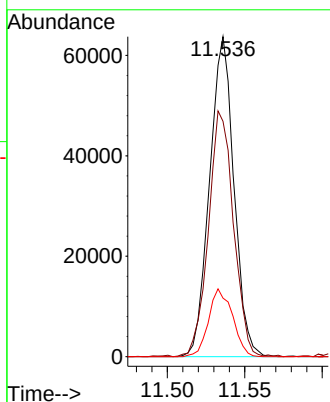
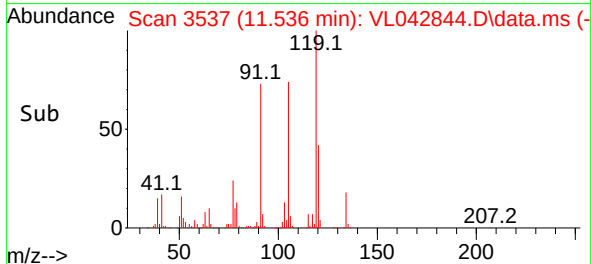
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



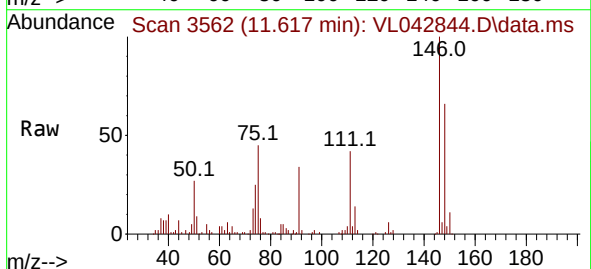
Tgt Ion: 119 Resp: 6961
Ion Ratio Lower Upper
119 100
91 79.3 63.9 95.9
134 20.9 17.0 25.4

Manual Integrations
APPROVED

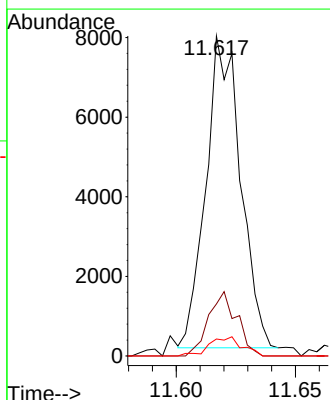
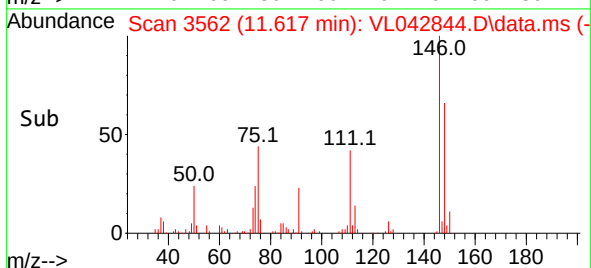
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

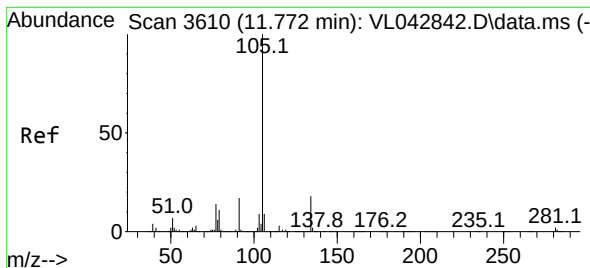


#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



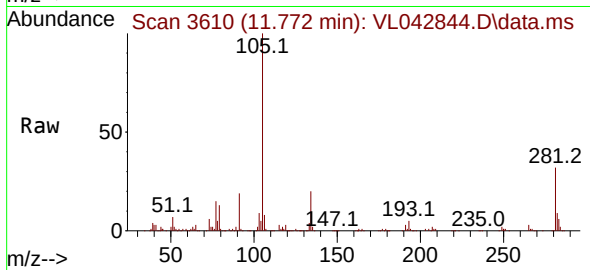
Tgt Ion: 91 Resp: 7900
Ion Ratio Lower Upper
91 100
126 16.9 14.2 21.4
128 5.8 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

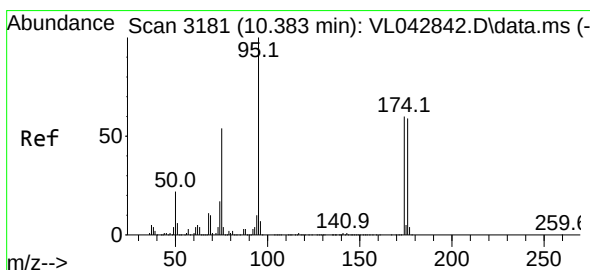
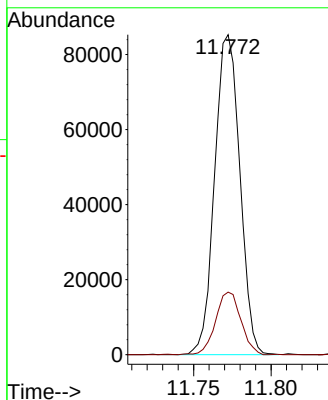
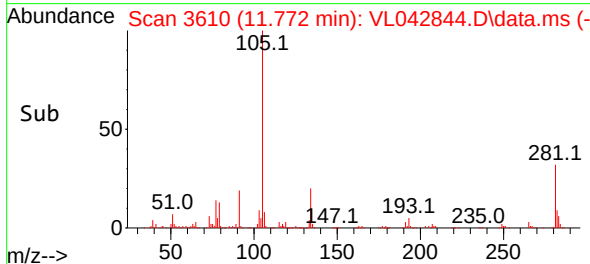
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



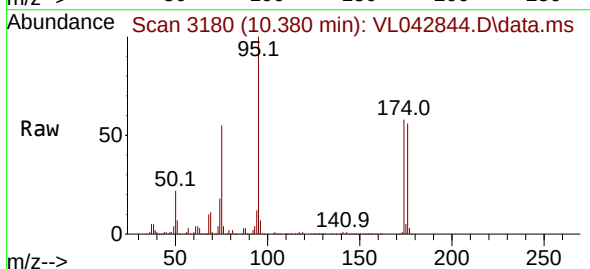
Tgt Ion:105 Resp: 96288
 Ion Ratio Lower Upper
 105 100
 134 19.7 14.9 22.3

Manual Integrations
 APPROVED

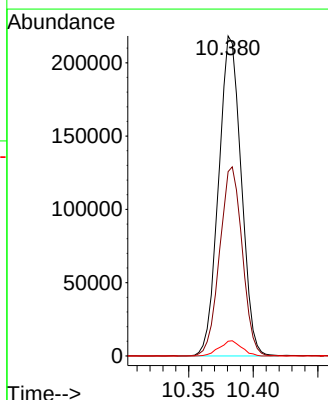
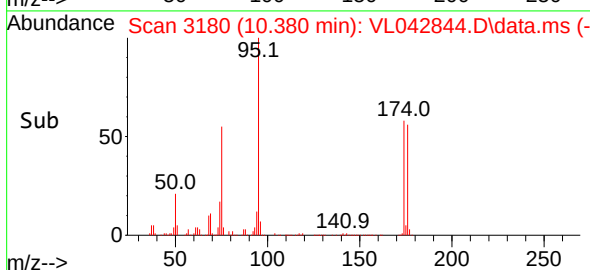
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

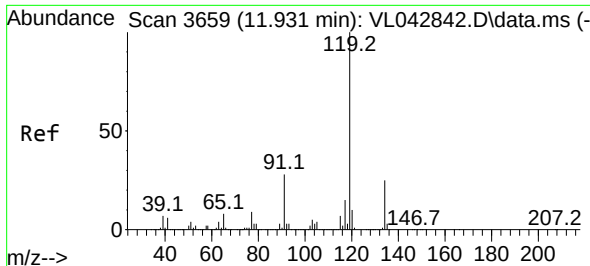


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.135 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



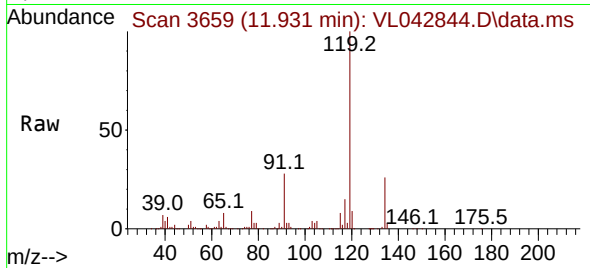
Tgt Ion: 95 Resp: 265708
 Ion Ratio Lower Upper
 95 100
 174 59.1 48.4 72.6
 175 4.7 3.8 5.8





#69
p-Isopropyltoluene
Concen: 1.098 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

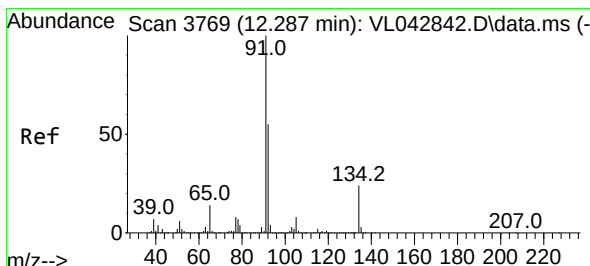
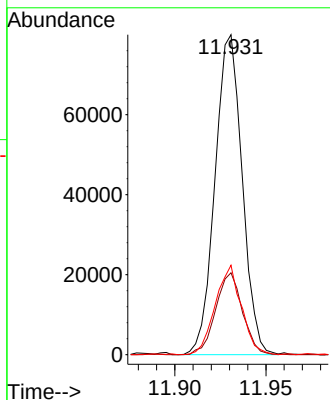
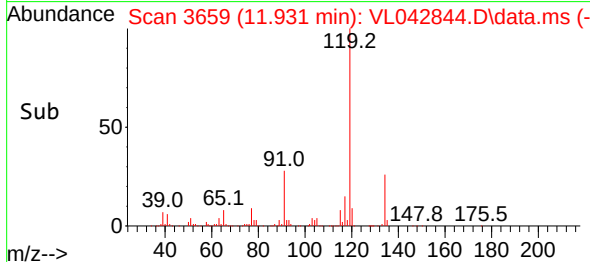
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



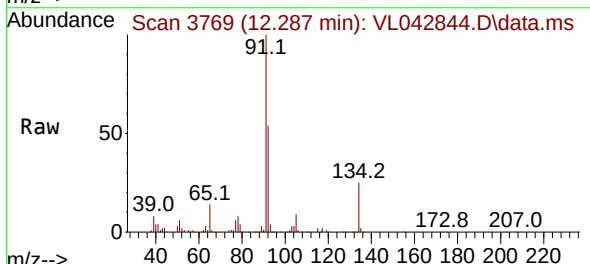
Tgt Ion: 119 Resp: 82934
Ion Ratio Lower Upper
119 100
134 25.3 20.6 30.8
91 27.2 22.6 34.0

Manual Integrations
APPROVED

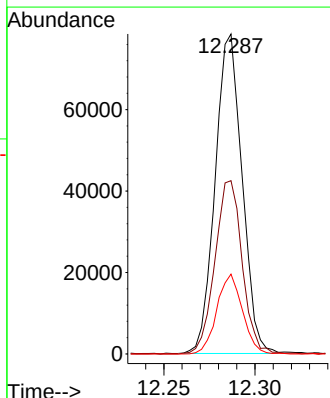
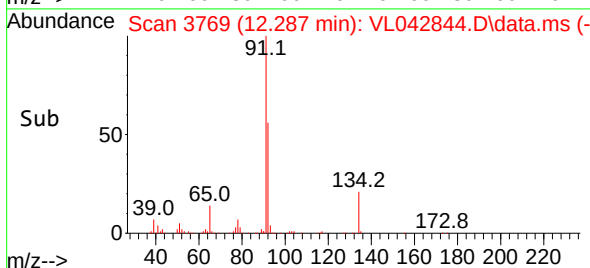
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

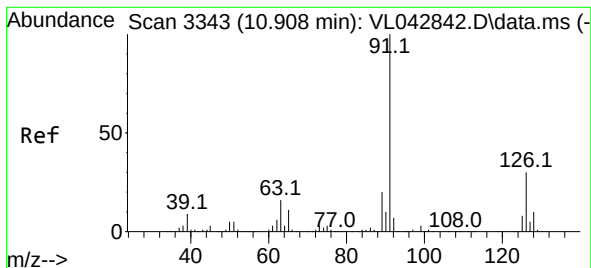


#70
n-Butylbenzene
Concen: 1.075 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion: 91 Resp: 80511
Ion Ratio Lower Upper
91 100
92 55.2 44.6 66.8
134 23.7 19.0 28.4





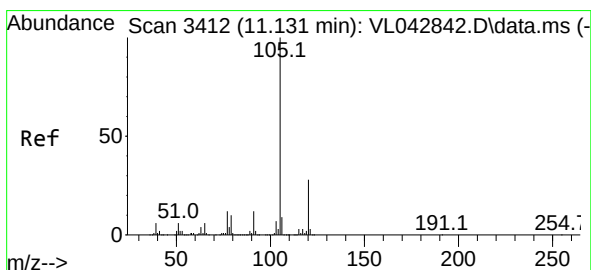
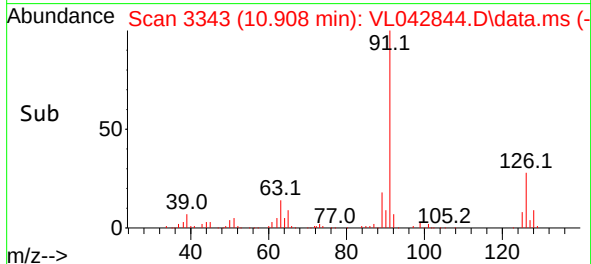
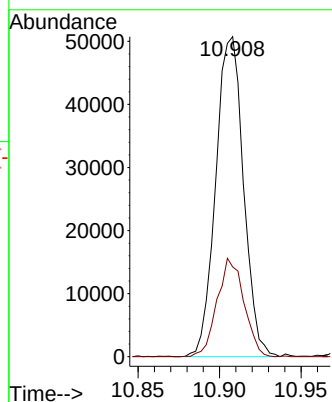
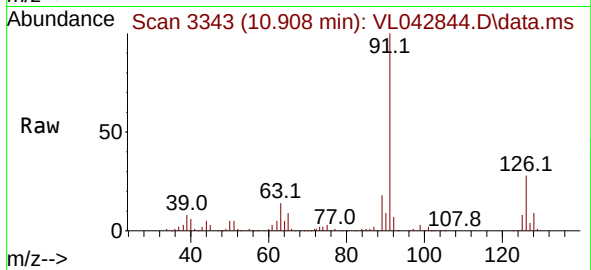
#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 6008
Ion Ratio Lower Upper
91 100
126 29.7 12.0 47.8

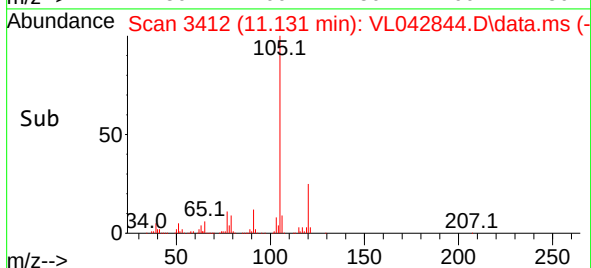
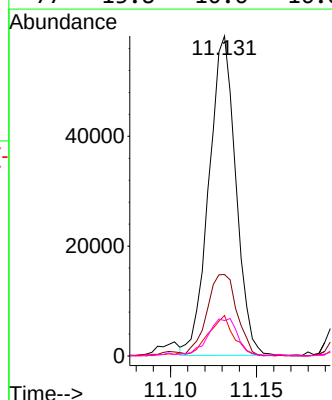
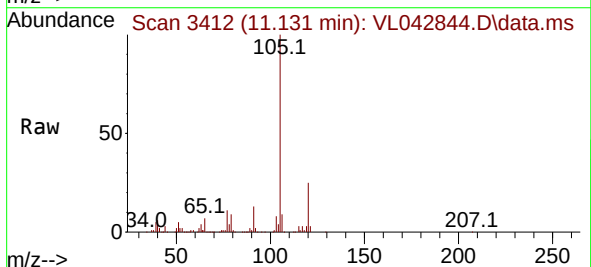
Manual Integrations
APPROVED

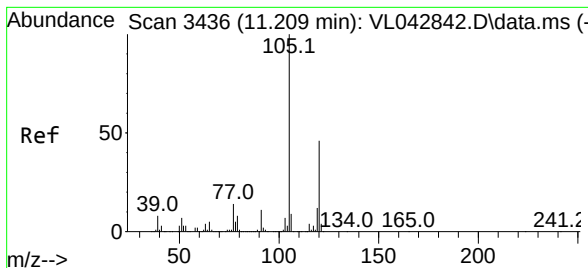
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 1.071 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

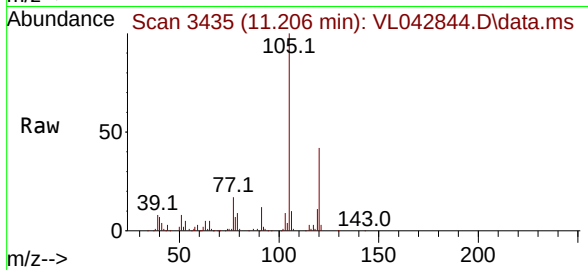
Tgt Ion:105 Resp: 63147
Ion Ratio Lower Upper
105 100
120 29.9 23.4 35.2
91 13.0 9.8 14.6
77 13.8 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.206 min Scan# 3436
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

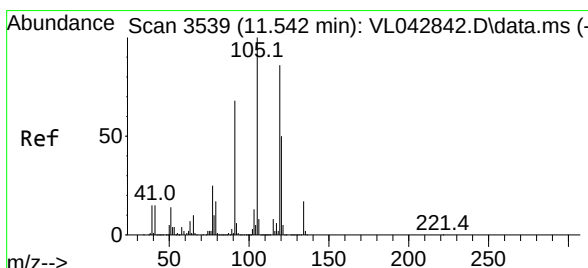
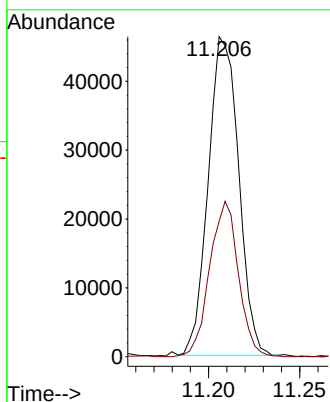
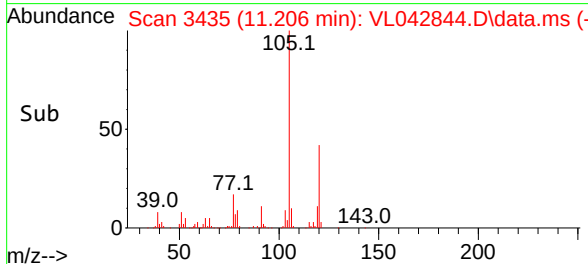
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



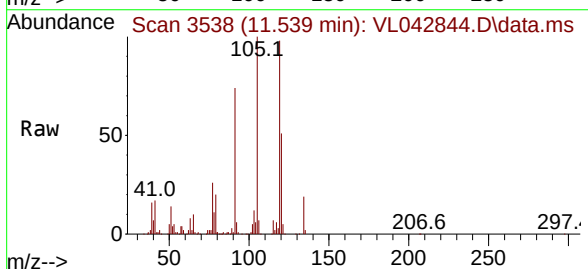
Tgt Ion:105 Resp: 53670
Ion Ratio Lower Upper
105 100
120 42.3 36.6 54.8

Manual Integrations
APPROVED

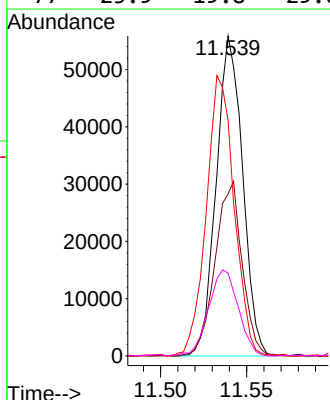
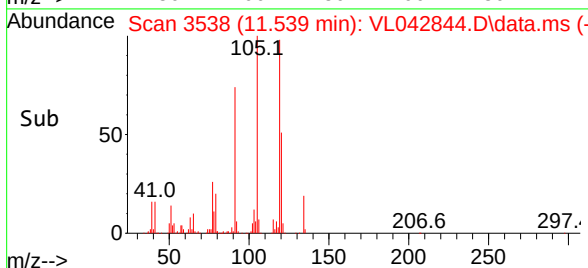
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

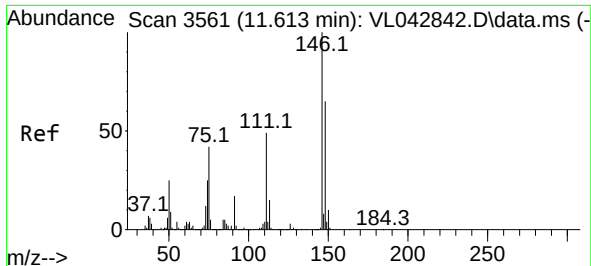


#74
1,2,4-Trimethylbenzene
Concen: 1.083 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion:105 Resp: 59633
Ion Ratio Lower Upper
105 100
120 50.7 39.8 59.6
91 73.3 54.2 81.4
77 25.9 19.8 29.6





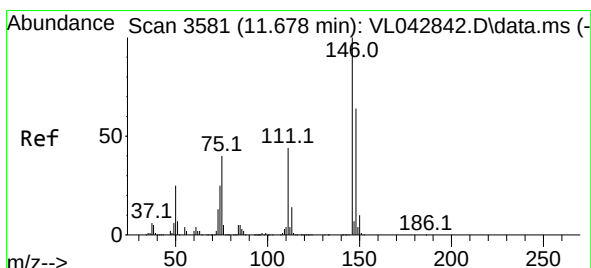
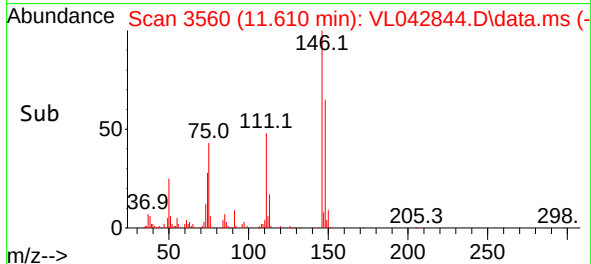
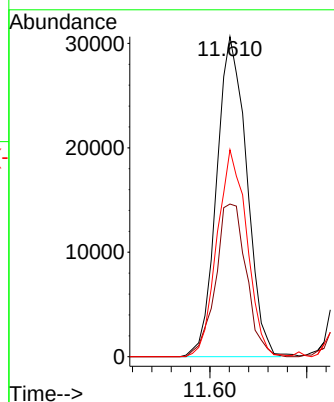
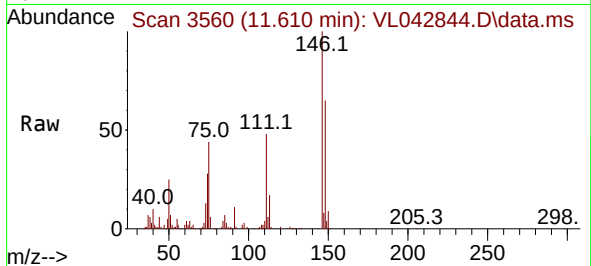
#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:146 Resp: 33064
Ion Ratio Lower Upper
146 100
111 48.6 23.9 71.7
148 64.1 31.4 94.0

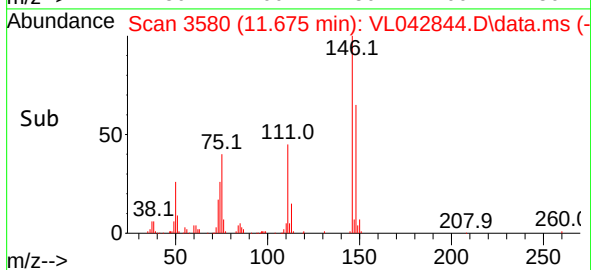
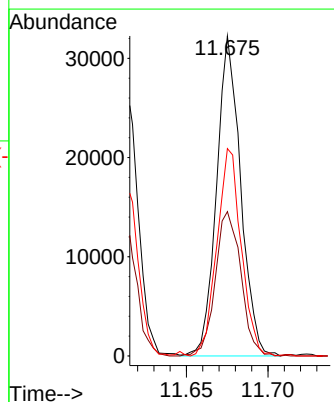
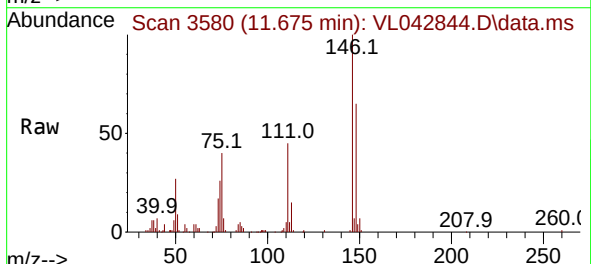
Manual Integrations
APPROVED

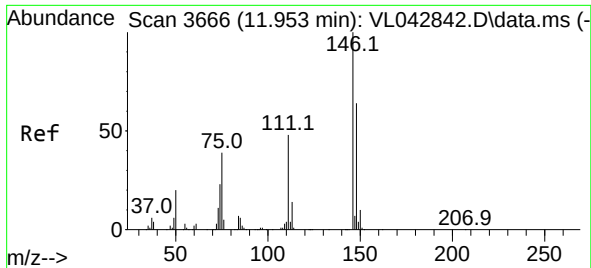
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#76
1,4-Dichlorobenzene
Concen: 1.045 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 33064
Ion Ratio Lower Upper
146 100
111 48.1 22.7 68.1
148 66.0 31.8 95.3





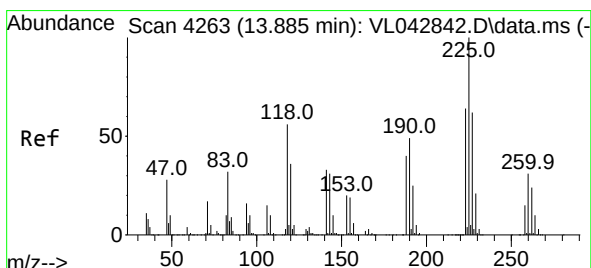
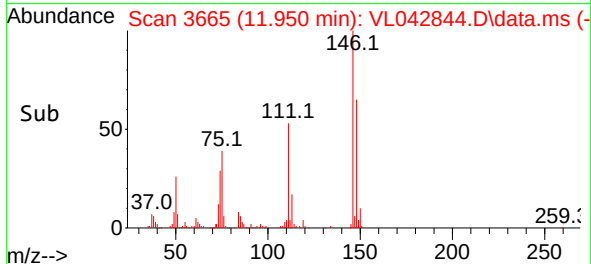
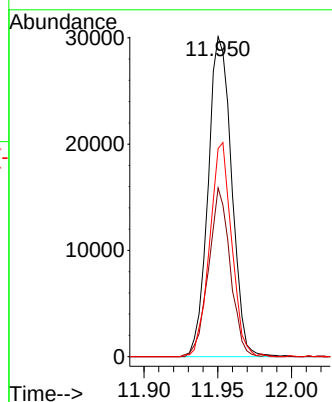
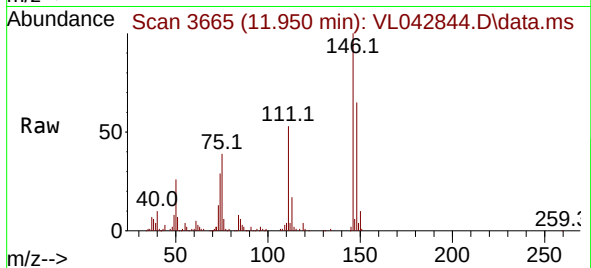
#77
1,2-Dichlorobenzene
Concen: 1.090 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:	146	Resp:	3340
Ion Ratio	Lower	Upper	
146	100		
111	48.4	24.6	74.0
148	62.7	32.0	96.0

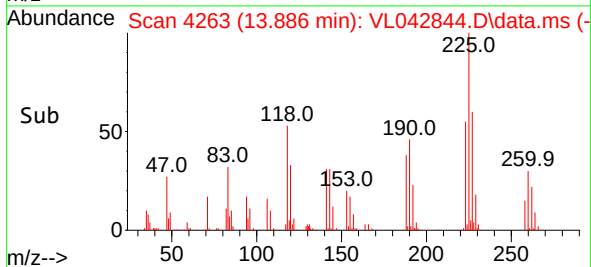
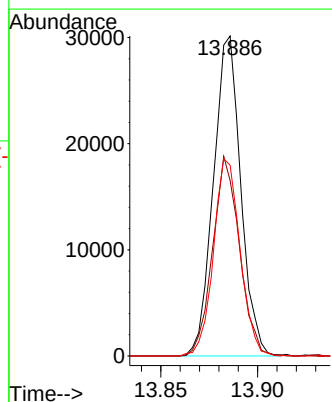
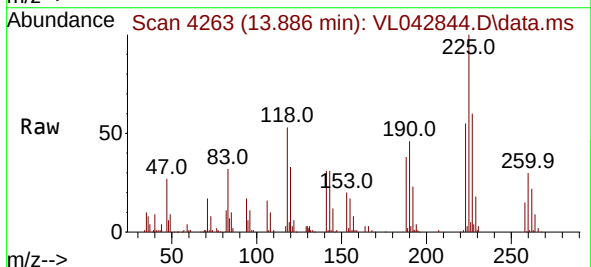
Manual Integrations
APPROVED

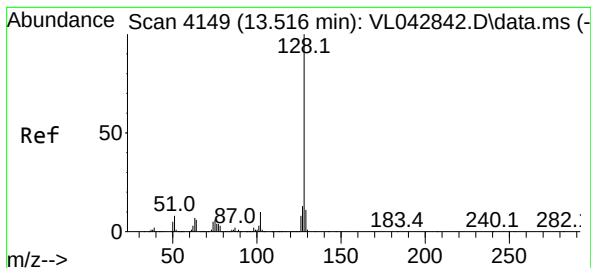
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78
Hexachloro-1,3-Butadiene
Concen: 1.177 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:	225	Resp:	29555
Ion Ratio	Lower	Upper	
225	100		
223	61.2	51.4	77.2
227	60.0	51.9	77.9





#79

Naphthalene

Concen: 1.169 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

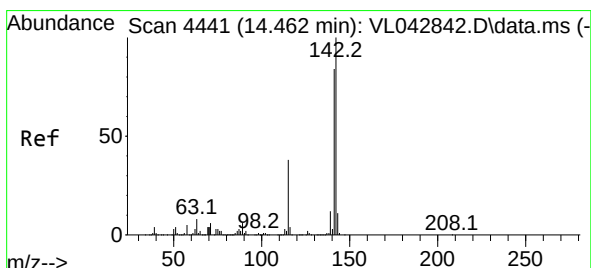
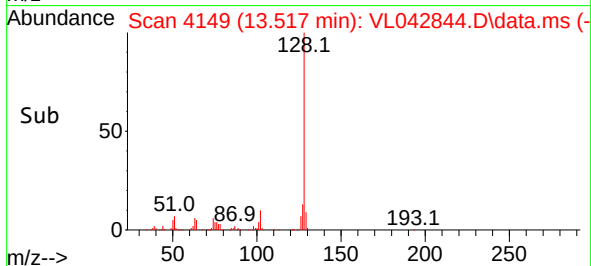
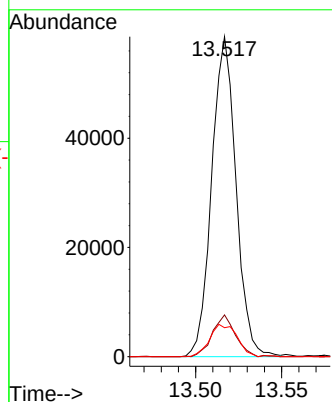
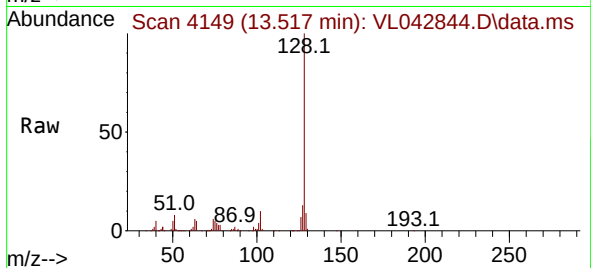
Tgt Ion:128 Resp: 57580

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	9.1	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80

Naphthalene,2-methyl-

Concen: 1.045 ppbv

RT: 14.462 min Scan# 4441

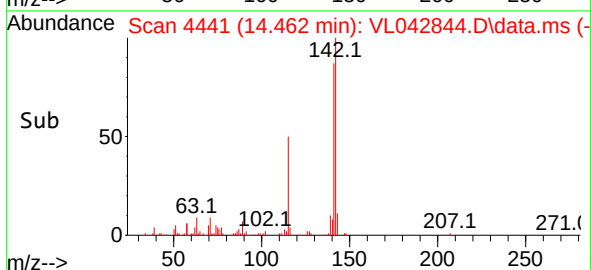
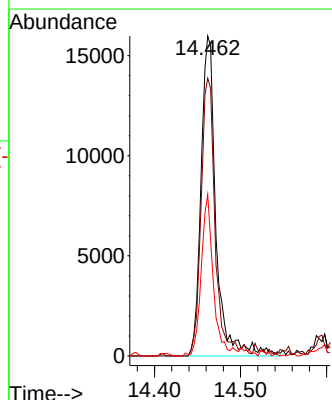
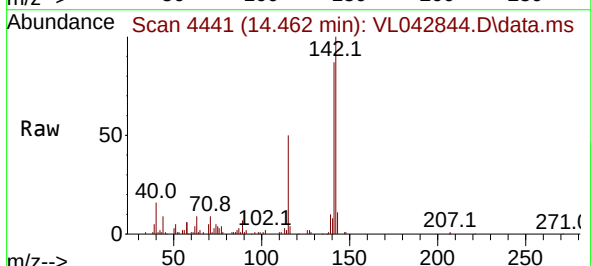
Delta R.T. 0.000 min

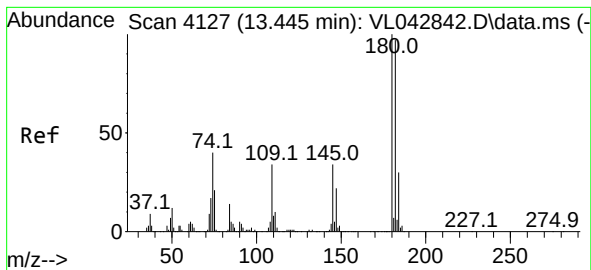
Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:142 Resp: 19375

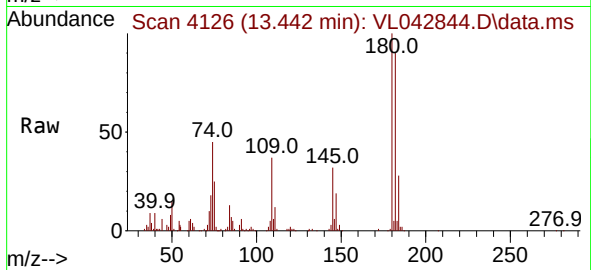
Ion	Ratio	Lower	Upper
142	100		
141	81.6	67.0	100.6
115	43.2	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 1.111 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

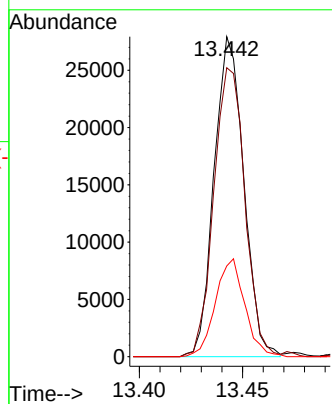
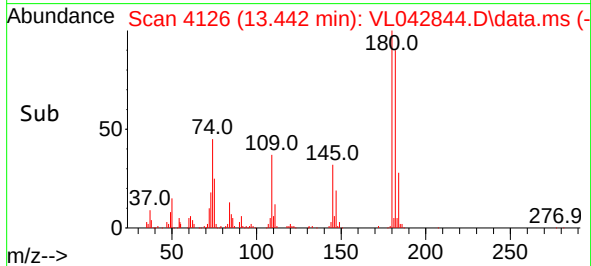
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.9	115.3
184	30.3	24.5	36.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 262663 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	3743m	0.577	ppbv	
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	8461m	0.544	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	34237m	0.537	ppbv	
45) t-1,3-Dichloropropene	6.435	75	8911m	0.505	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

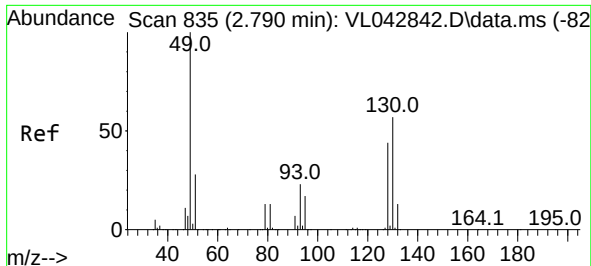
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

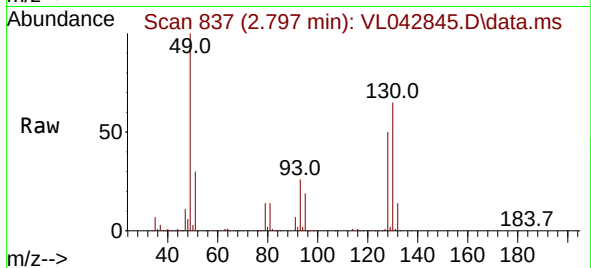
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	ppbv	
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.956	91	24155m	0.535	ppbv	
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.561	91	50372m	1.045	ppbv	
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

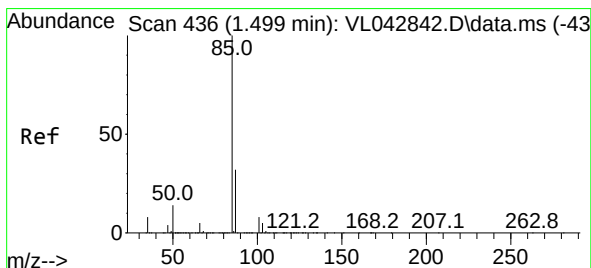
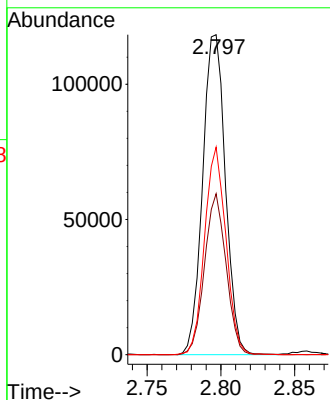
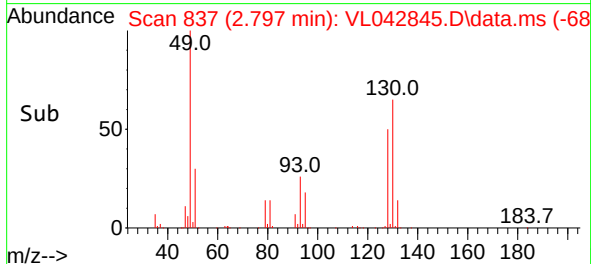
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 49 Resp: 126879
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 60.9 30.6 91.6

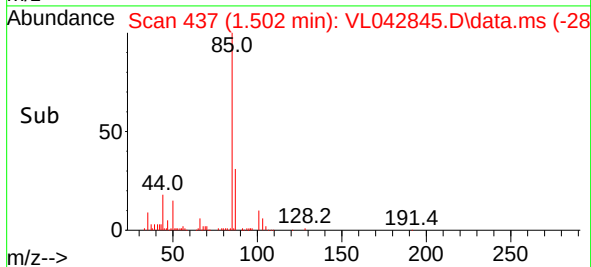
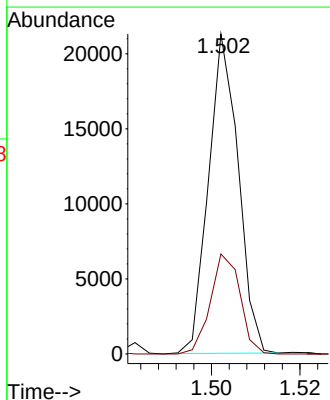
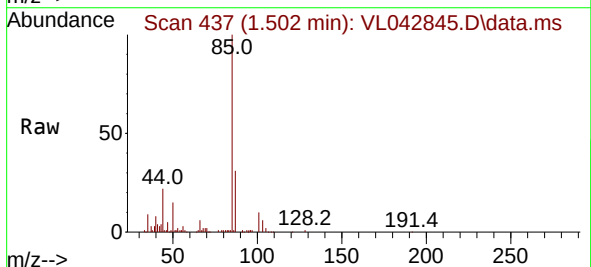
Manual Integrations
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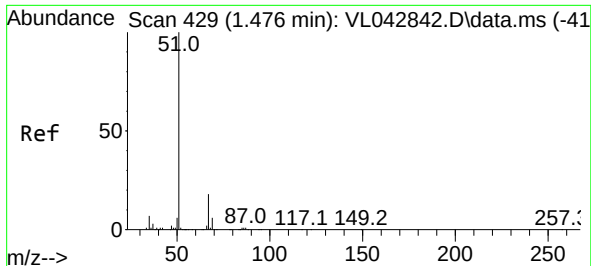
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

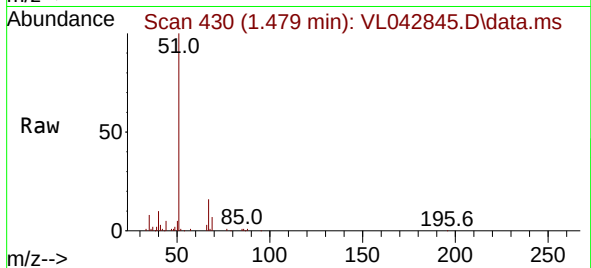
Tgt Ion: 85 Resp: 9937
Ion Ratio Lower Upper
85 100
87 31.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

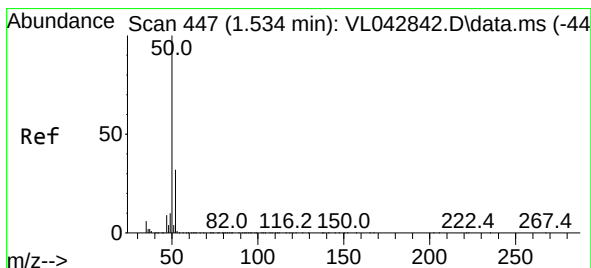
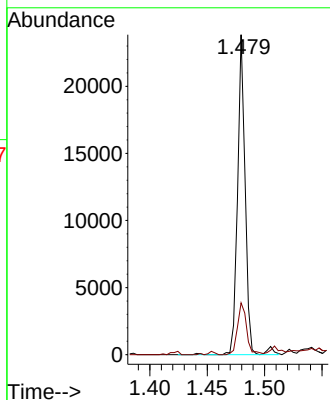
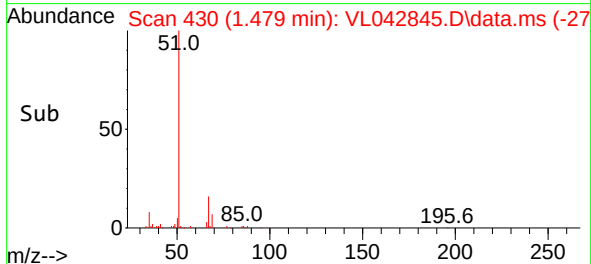
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 51 Resp: 1111
Ion Ratio Lower Upper
51 100
67 20.5 14.9 22.3

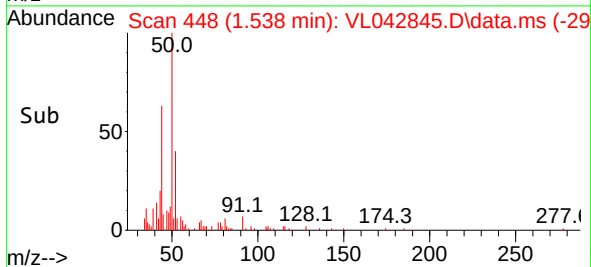
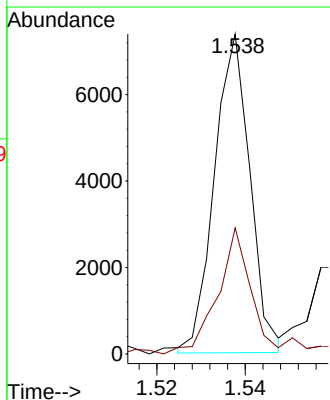
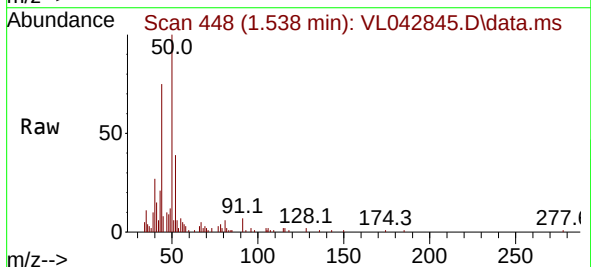
Manual Integrations
APPROVED

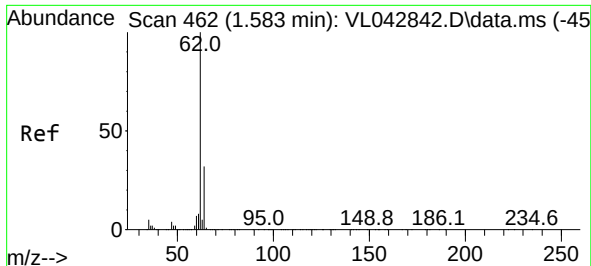
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

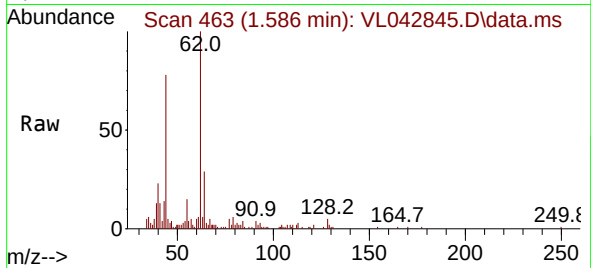
Tgt Ion: 50 Resp: 4112
Ion Ratio Lower Upper
50 100
52 38.2 25.9 38.9





#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

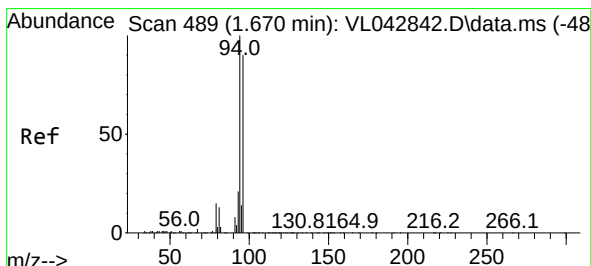
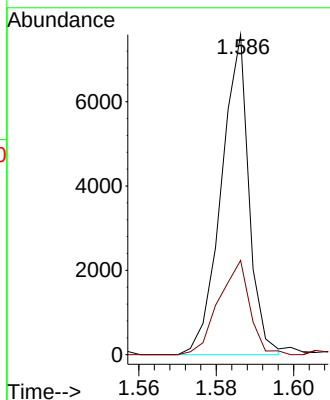
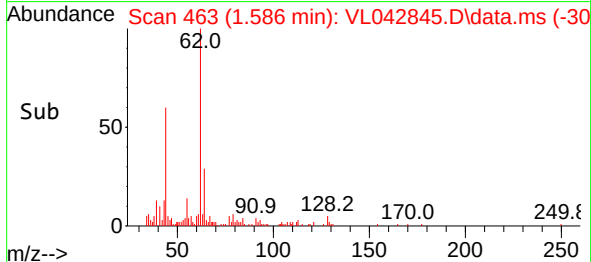
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



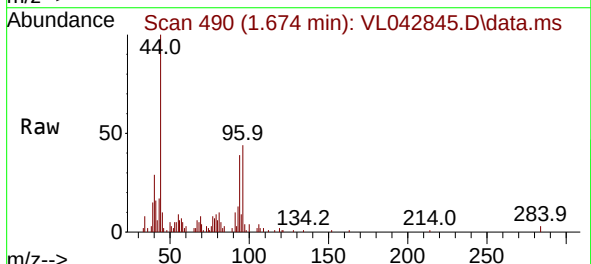
Tgt Ion: 62 Resp: 3762
 Ion Ratio Lower Upper
 62 100
 64 28.3 25.4 38.2

Manual Integrations
 APPROVED

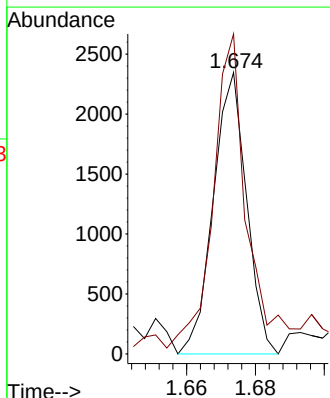
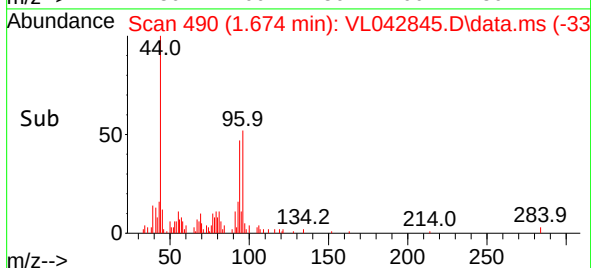
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

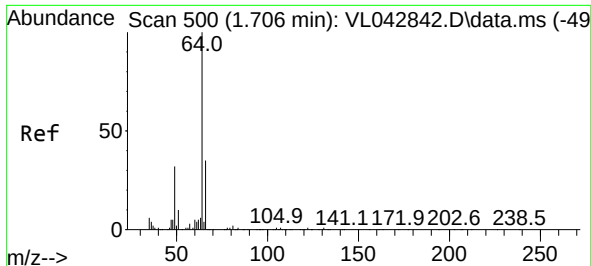


#6
 Bromomethane
 Concen: 0.533 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion: 94 Resp: 1576
 Ion Ratio Lower Upper
 94 100
 96 106.9 72.1 108.1





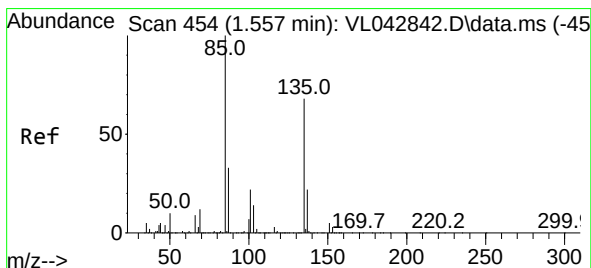
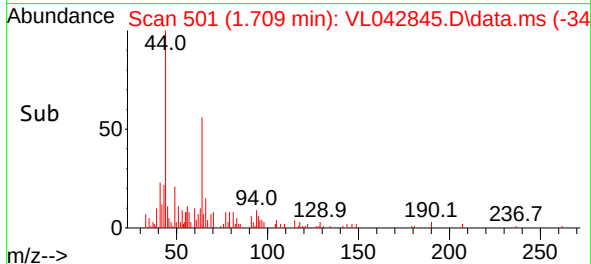
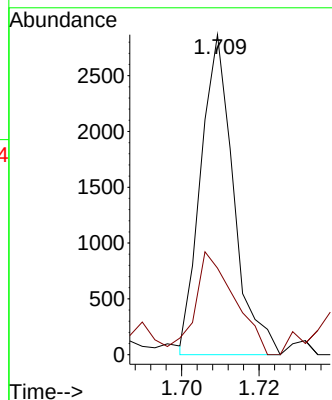
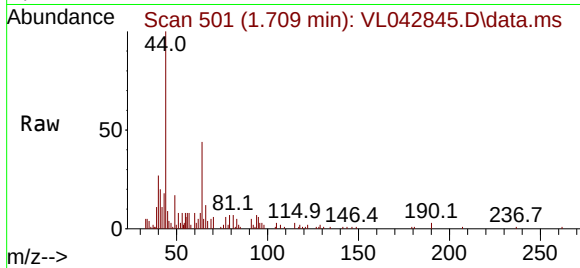
#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 1690
Ion Ratio Lower Upper
64 100
66 27.0 28.6 42.8

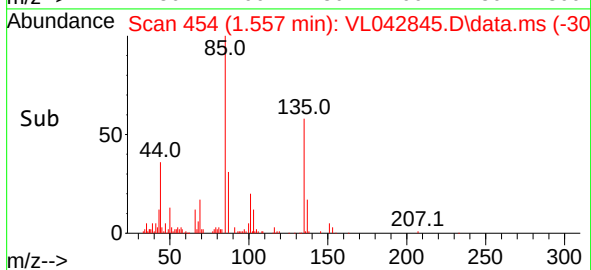
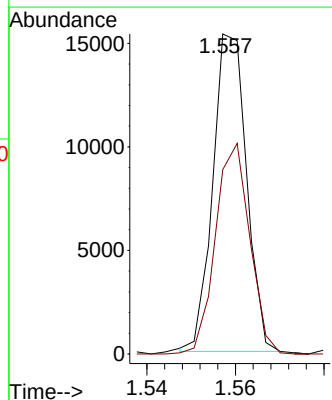
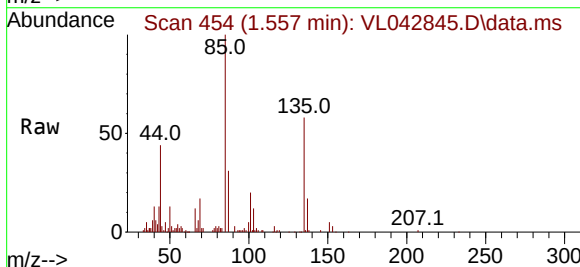
Manual Integrations
APPROVED

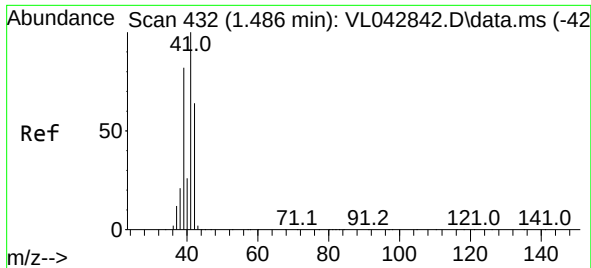
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 8079
Ion Ratio Lower Upper
85 100
135 67.7 51.2 76.8





#9

Propene

Concen: 0.589 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

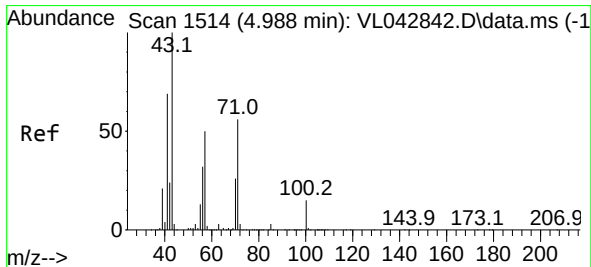
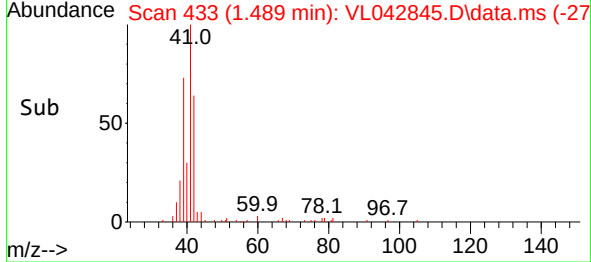
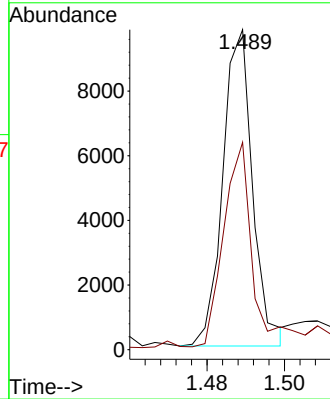
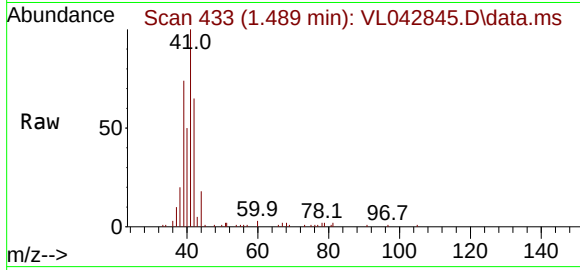
VSTDICC0.5

Tgt Ion: 41 Resp: 5225
 Ion Ratio Lower Upper
 41 100
 42 73.7 53.0 79.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 0.537 ppbv

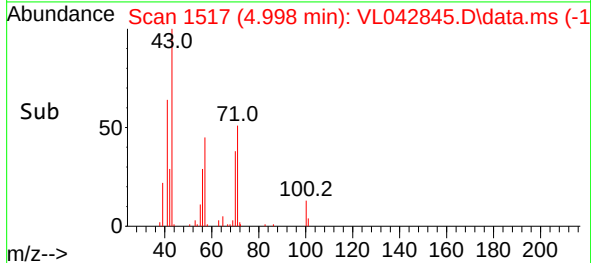
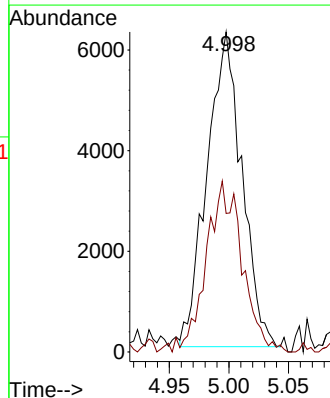
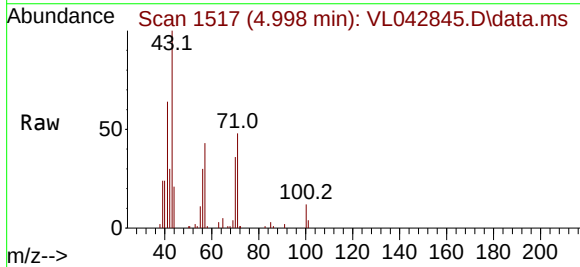
RT: 4.998 min Scan# 1517

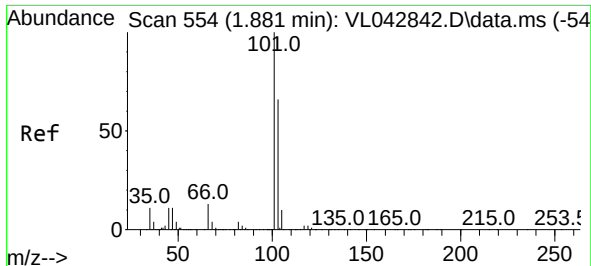
Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

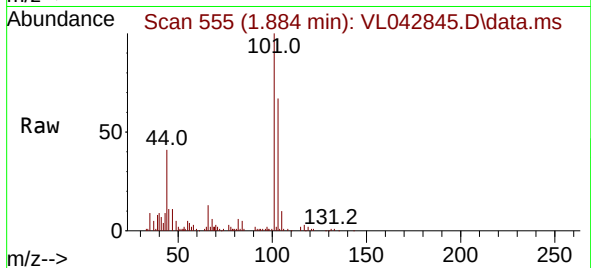
Tgt Ion: 43 Resp: 12747
 Ion Ratio Lower Upper
 43 100
 57 56.9 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 0.558 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

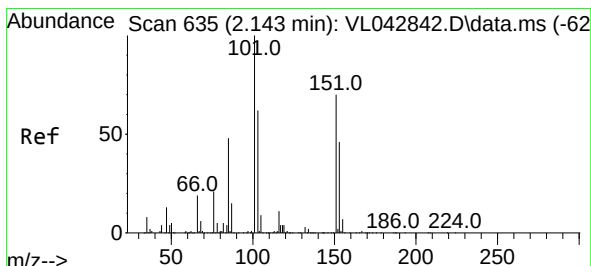
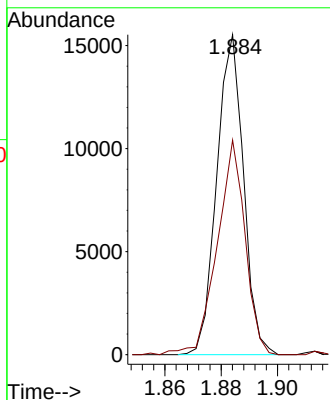
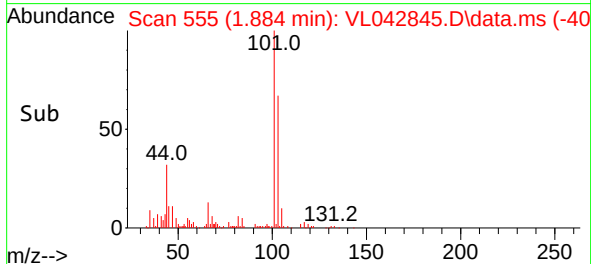
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



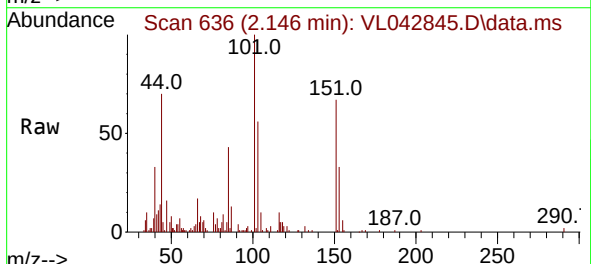
Tgt Ion:101 Resp: 10238
 Ion Ratio Lower Upper
 101 100
 103 67.0 52.5 78.7

Manual Integrations
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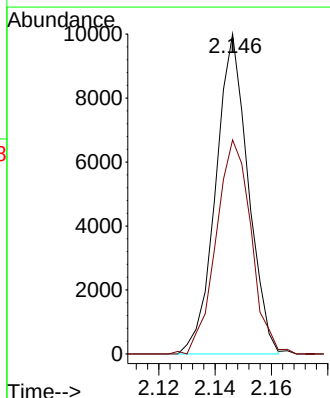
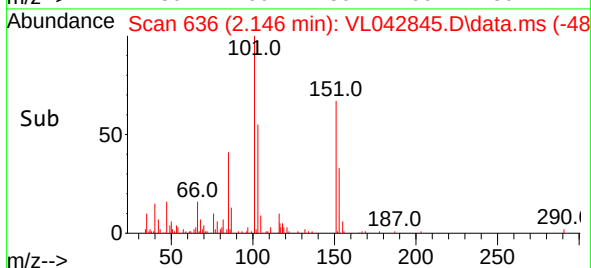
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

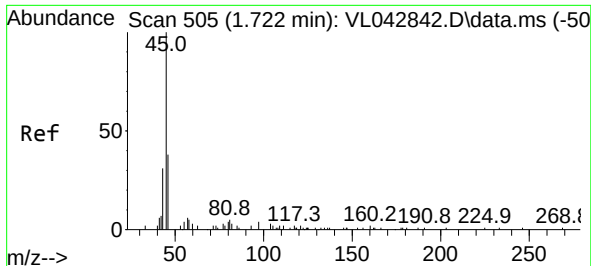


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.546 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion:101 Resp: 7984
 Ion Ratio Lower Upper
 101 100
 151 72.3 56.4 84.6





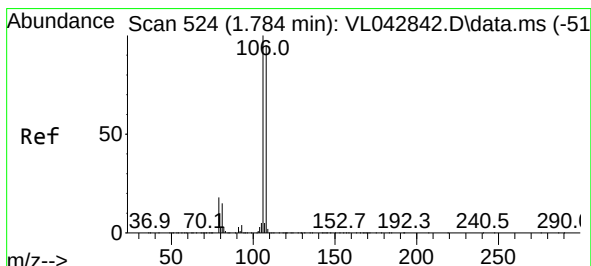
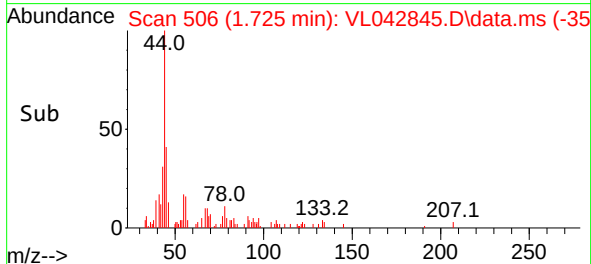
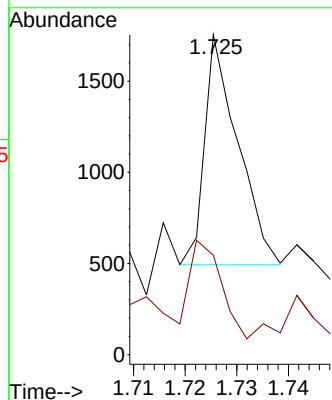
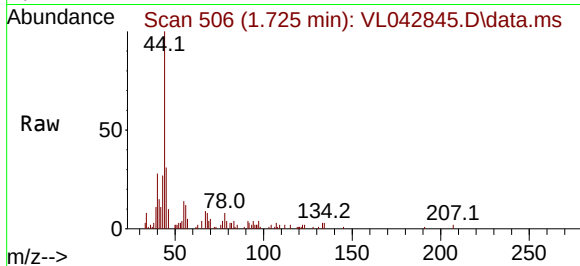
#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 562
Ion Ratio Lower Upper
45 100
46 131.5 17.5 69.9

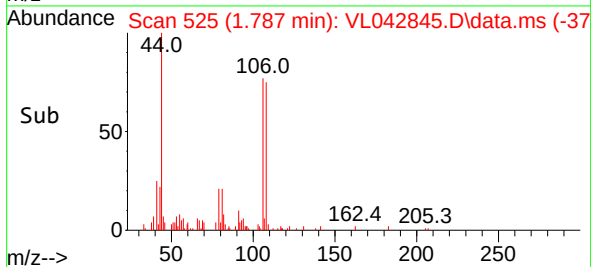
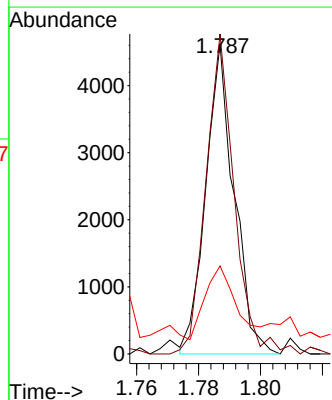
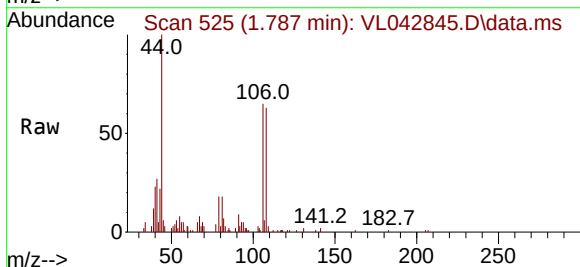
Manual Integrations
APPROVED

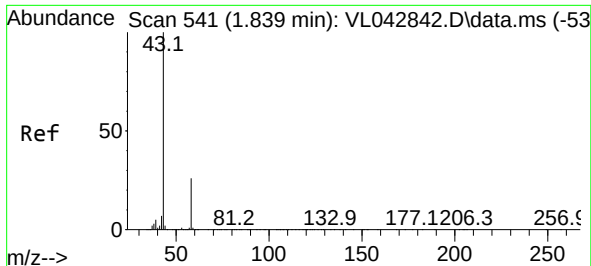
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#14
Bromoethene
Concen: 0.554 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:108 Resp: 2932
Ion Ratio Lower Upper
108 100
106 106.1 85.1 127.7
79 62.6 16.3 24.5





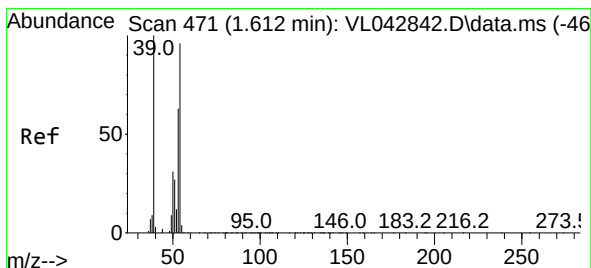
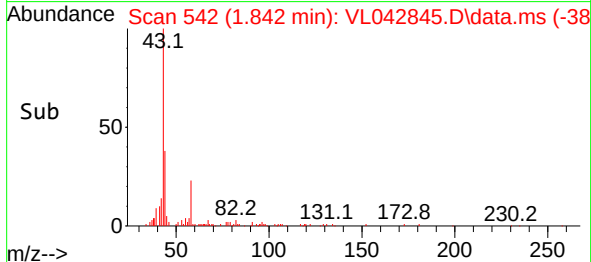
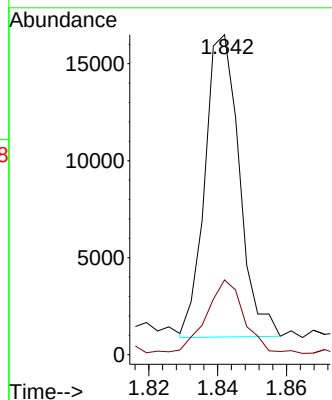
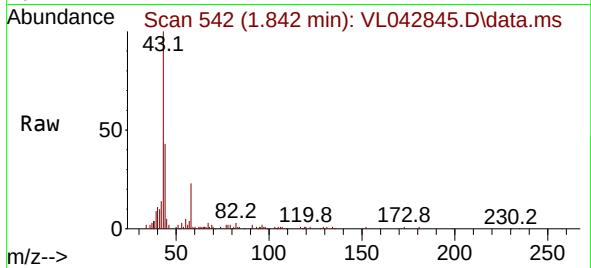
#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 10830
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6

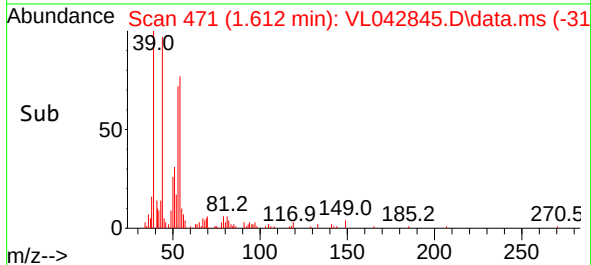
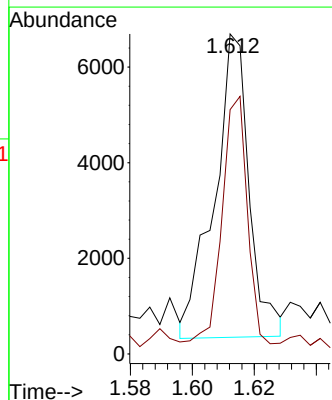
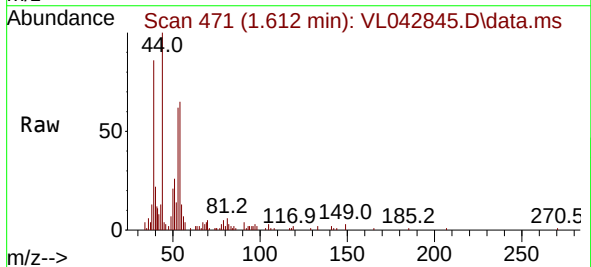
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APPROVED

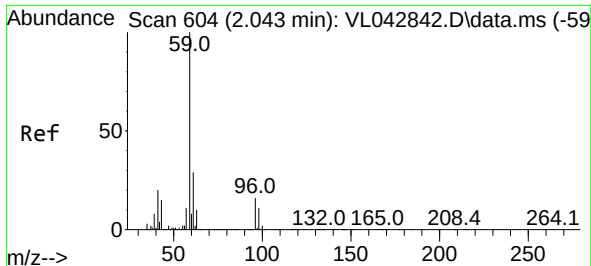
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970
Ion Ratio Lower Upper
39 100
54 78.6 63.6 95.4





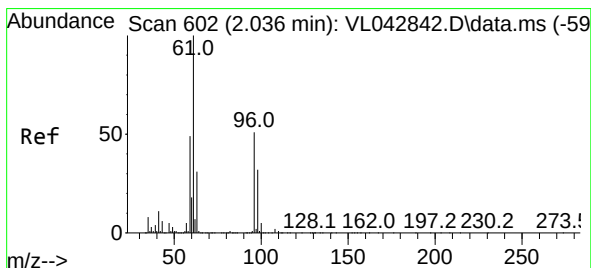
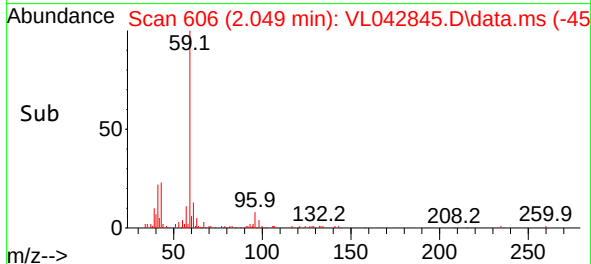
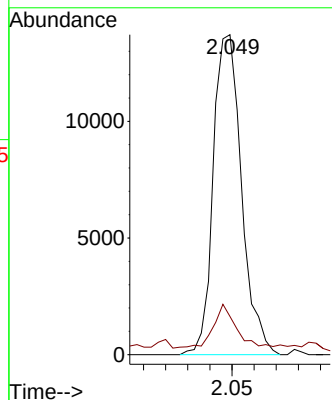
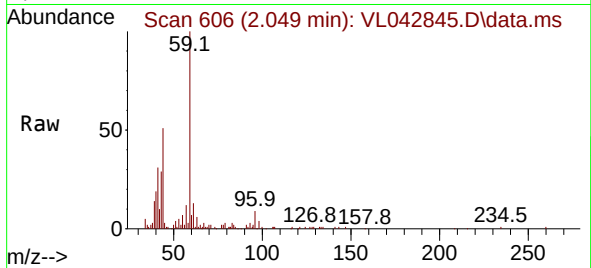
#17
tert-Butyl alcohol
Concen: 0.612 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 1218
Ion Ratio Lower Upper
59 100
57 15.3 9.0 13.4

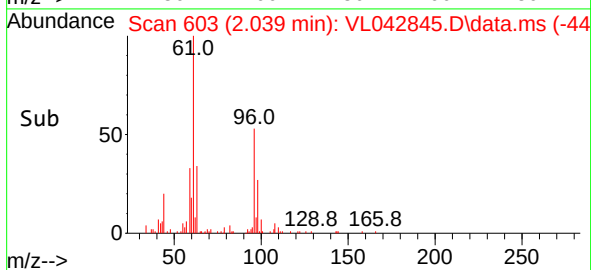
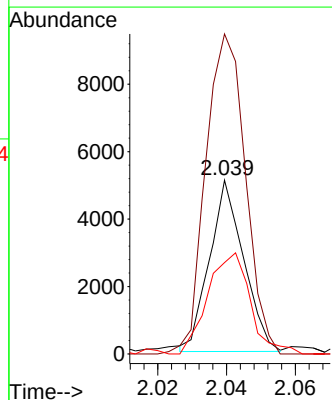
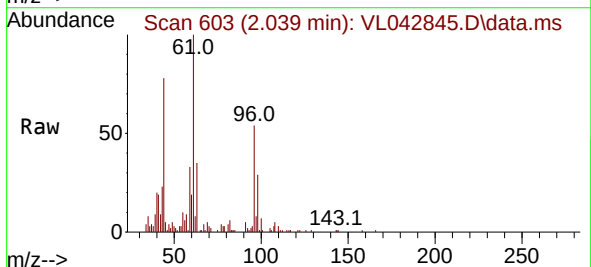
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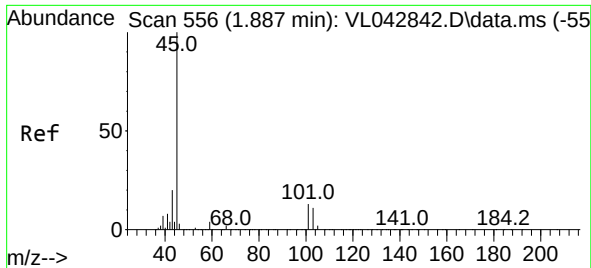
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 0.545 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3501
Ion Ratio Lower Upper
96 100
61 188.2 158.2 237.4
98 53.8 50.6 76.0





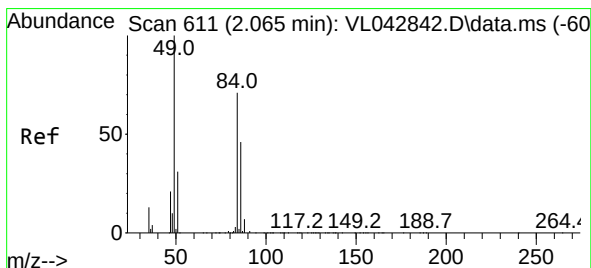
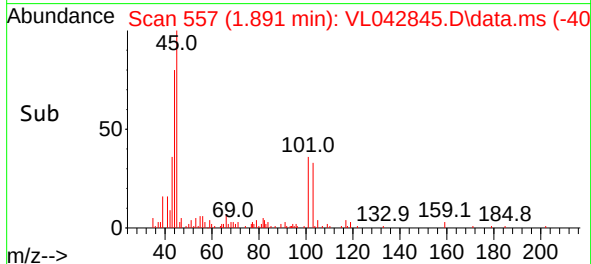
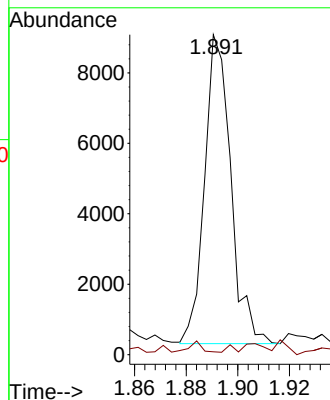
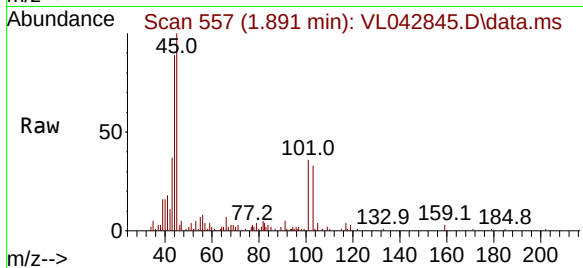
#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 6194
Ion Ratio Lower Upper
45 100
58 13.3 32.7 49.1

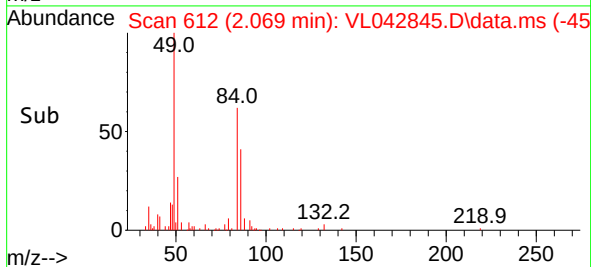
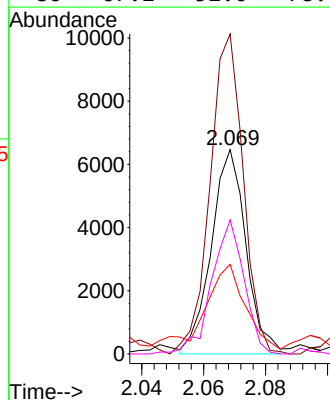
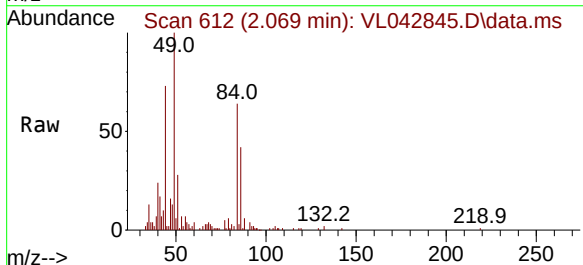
Manual Integrations
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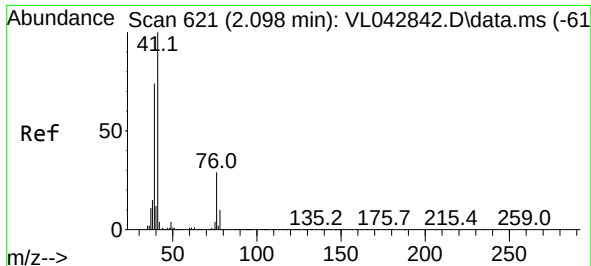
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

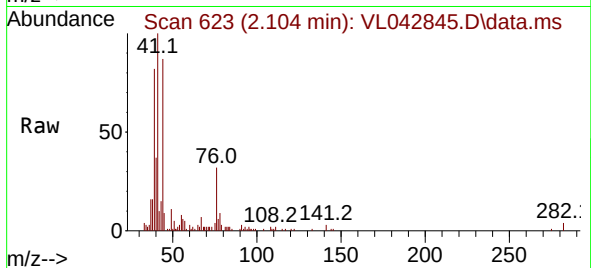
Tgt Ion: 84 Resp: 5025
Ion Ratio Lower Upper
84 100
49 159.3 112.3 168.5
51 42.5 36.0 54.0
86 67.2 52.0 78.0





#21
 Allyl Chloride
 Concen: 0.600 ppbv
 RT: 2.104 min Scan# 611
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

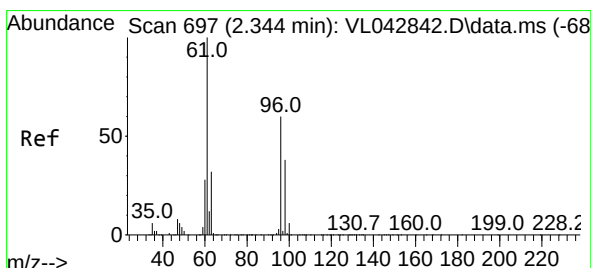
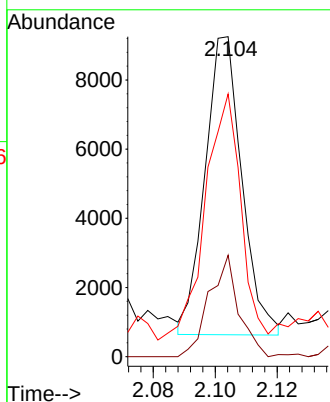
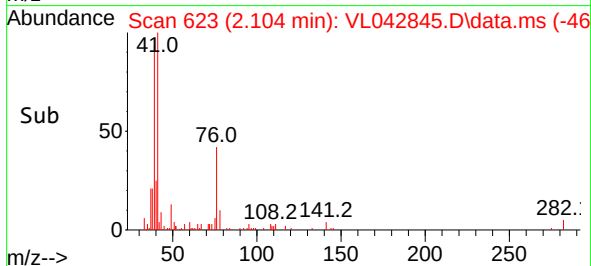
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



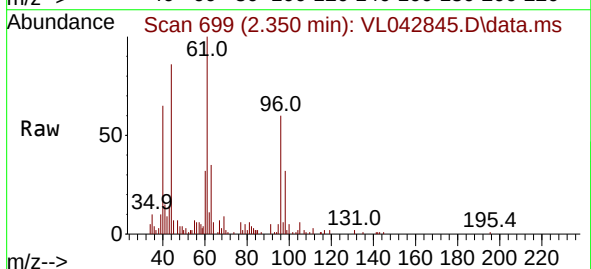
Tgt Ion: 41 Resp: 7120
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.9 35.9
 39 98.9 57.8 86.6

Manual Integrations
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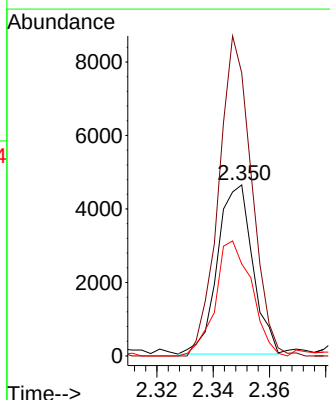
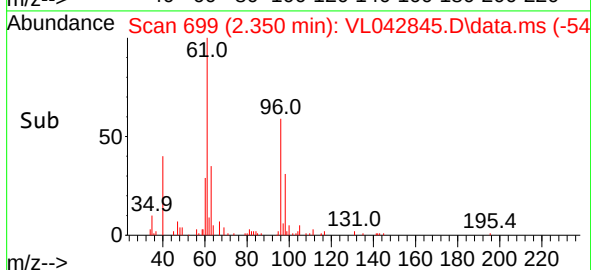
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

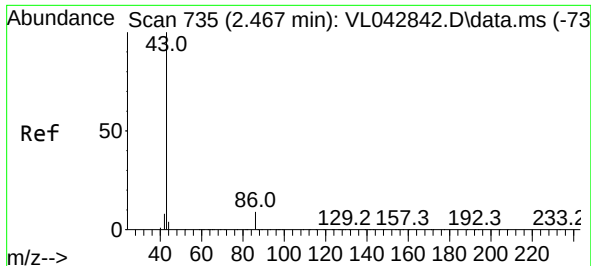


#22
 trans-1,2-Dichloroethene
 Concen: 0.556 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



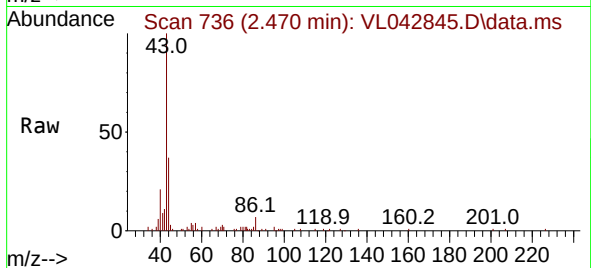
Tgt Ion: 96 Resp: 3996
 Ion Ratio Lower Upper
 96 100
 61 167.3 132.6 199.0
 98 54.4 50.0 75.0





#23
 Vinyl Acetate
 Concen: 0.621 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

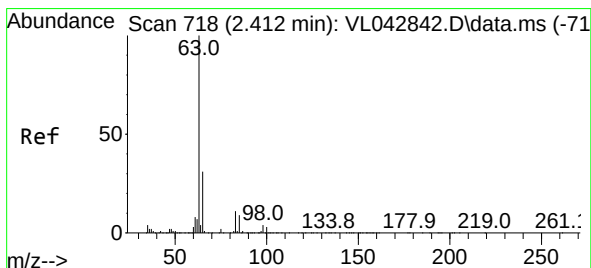
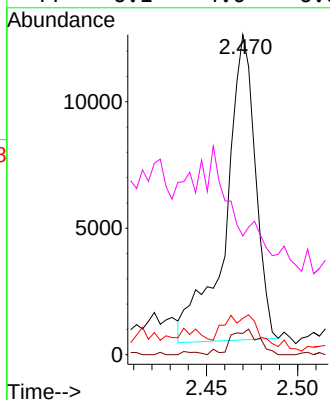
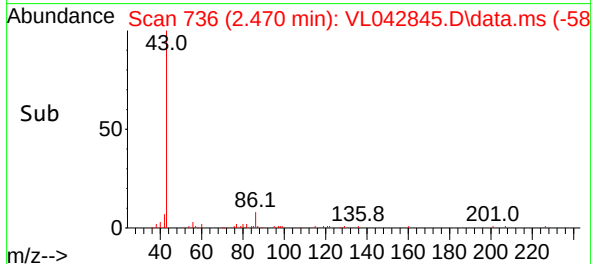
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



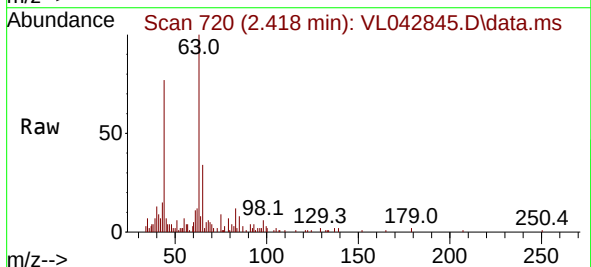
Tgt Ion: 43 Resp: 13709
 Ion Ratio Lower Upper
 43 100
 86 7.0 6.6 9.8
 42 9.3 7.0 10.6
 44 6.1 4.0 6.0#

Manual Integrations
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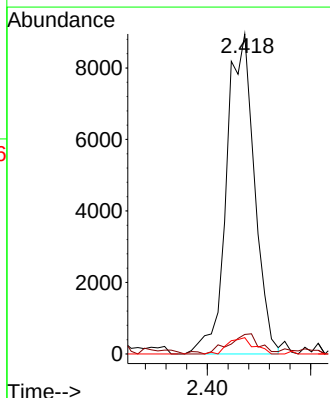
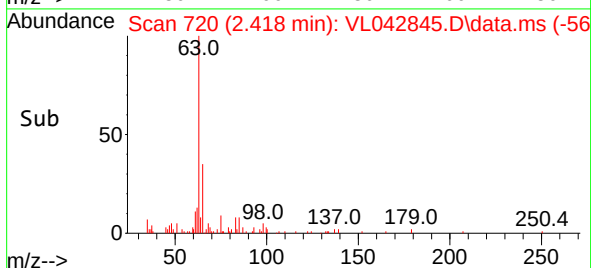
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

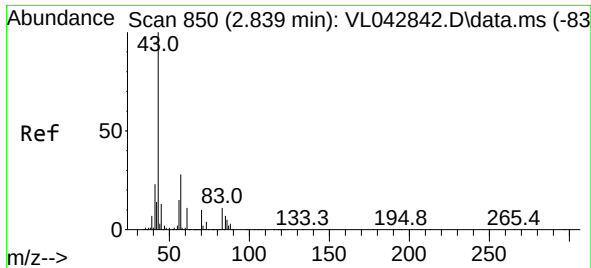


#24
 1,1-Dichloroethane
 Concen: 0.562 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



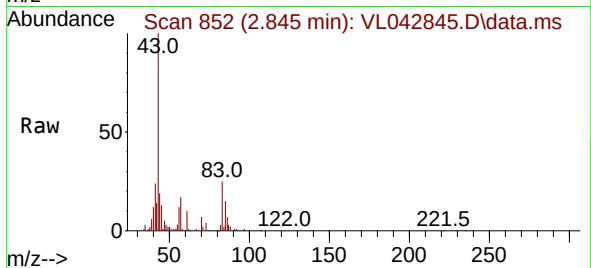
Tgt Ion: 63 Resp: 8354
 Ion Ratio Lower Upper
 63 100
 98 5.5 2.1 6.5
 100 5.1 1.7 5.1#





#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

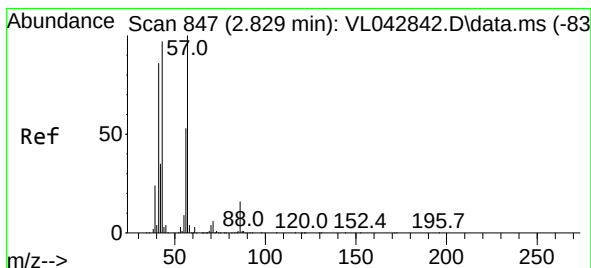
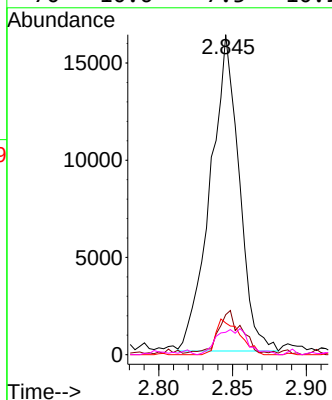
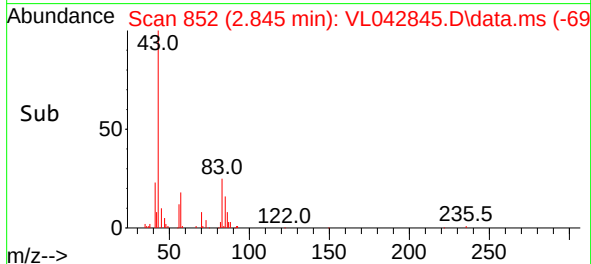
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 2214
Ion Ratio Lower Upper
43 100
45 13.2 8.1 12.1
61 9.4 7.4 11.2
70 10.6 7.3 10.9

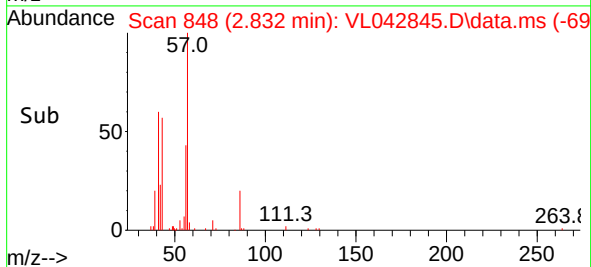
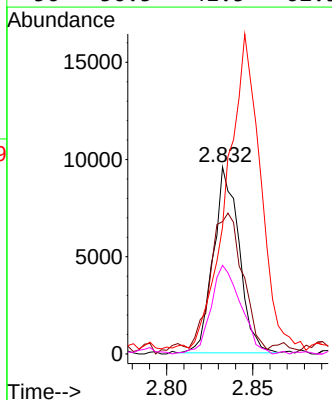
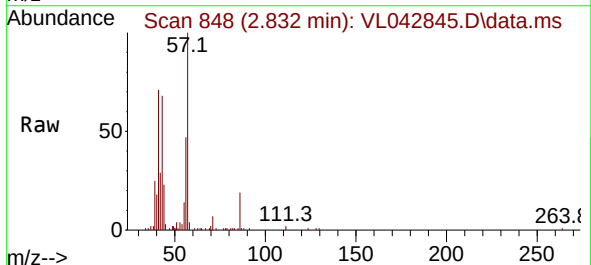
Manual Integrations
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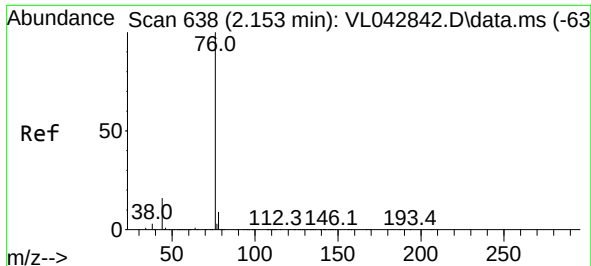
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 0.527 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

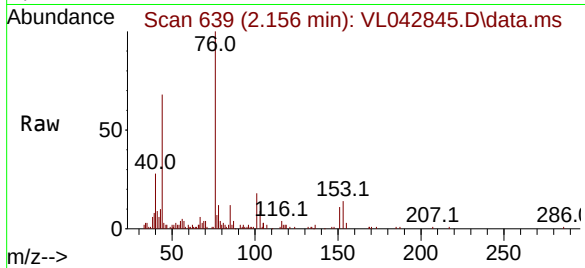
Tgt Ion: 57 Resp: 9879
Ion Ratio Lower Upper
57 100
41 100.6 68.6 103.0
43 236.9 168.5 252.7
56 56.5 41.5 62.3





#27
Carbon Disulfide
Concen: 0.523 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

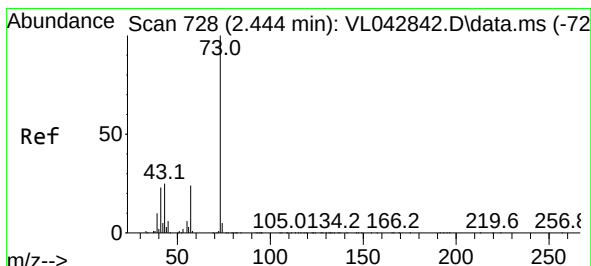
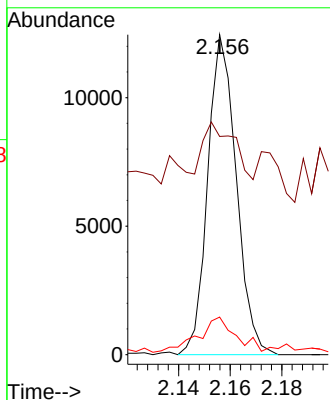
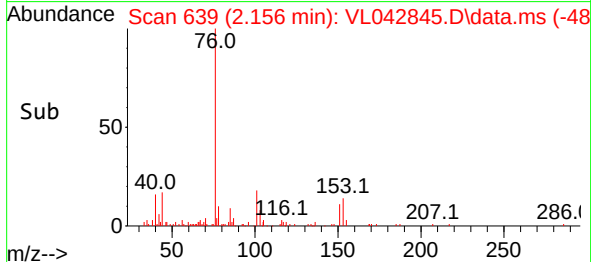
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



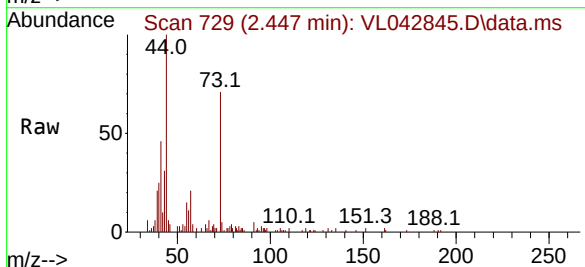
Tgt Ion: 76 Resp: 9539
Ion Ratio Lower Upper
76 100
44 136.8 15.9 23.9
78 22.2 9.5 14.3

Manual Integrations
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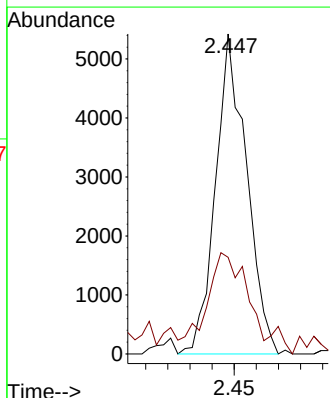
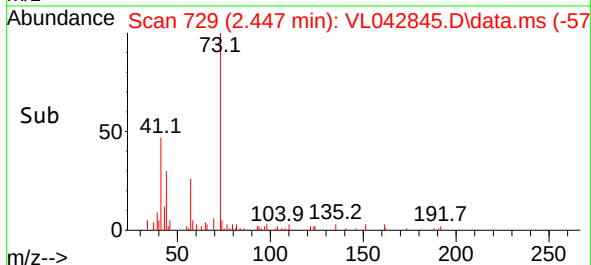
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

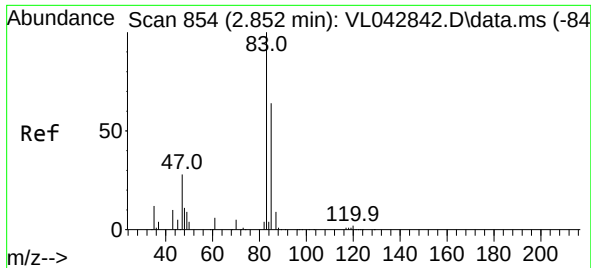


#28
Methyl tert-Butyl Ether
Concen: 0.553 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



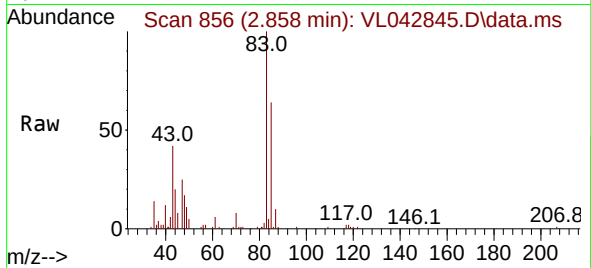
Tgt Ion: 73 Resp: 5284
Ion Ratio Lower Upper
73 100
57 46.5 21.6 32.4





#29
Chloroform
Concen: 0.545 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

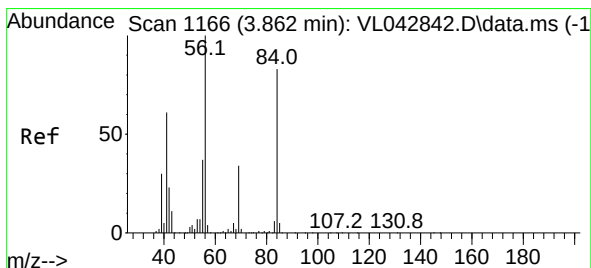
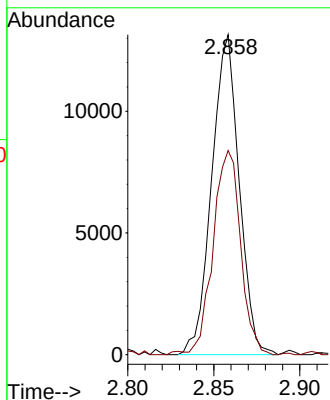
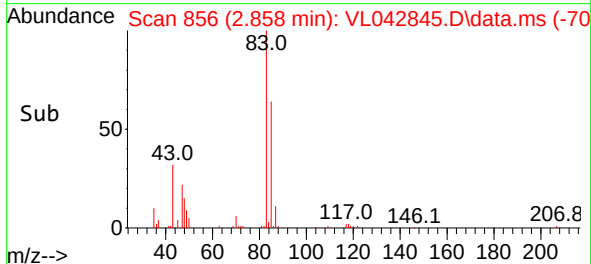
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 83 Resp: 1458
Ion Ratio Lower Upper
83 100
85 63.8 51.1 76.7

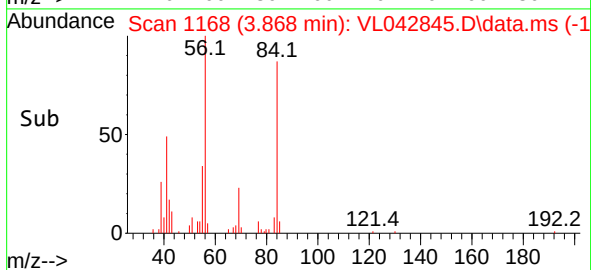
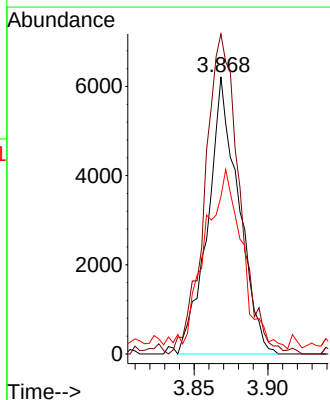
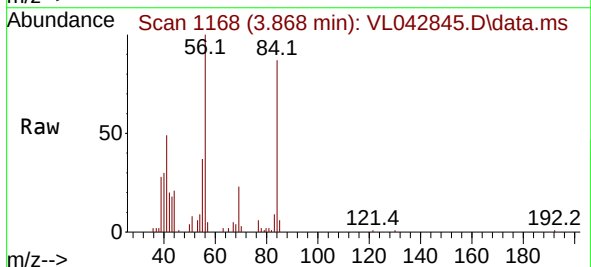
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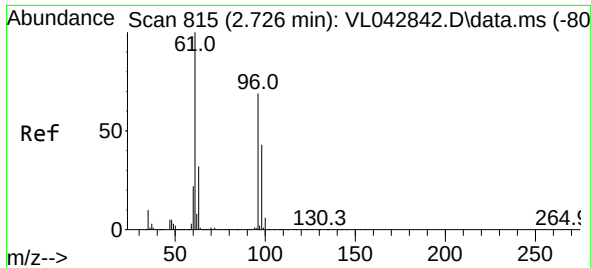
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 0.550 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

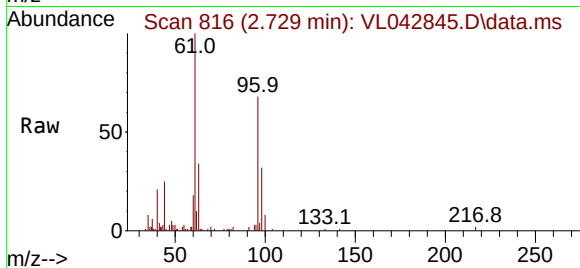
Tgt Ion: 84 Resp: 9037
Ion Ratio Lower Upper
84 100
56 131.1 98.8 148.2
41 80.1 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 0.550 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

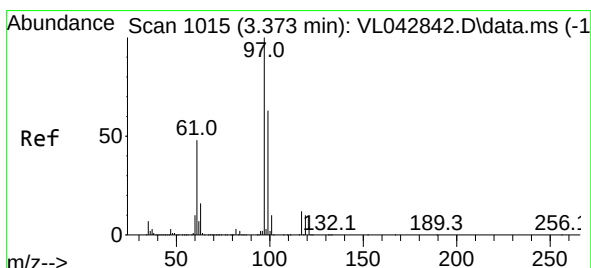
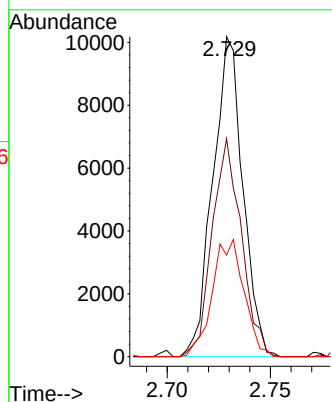
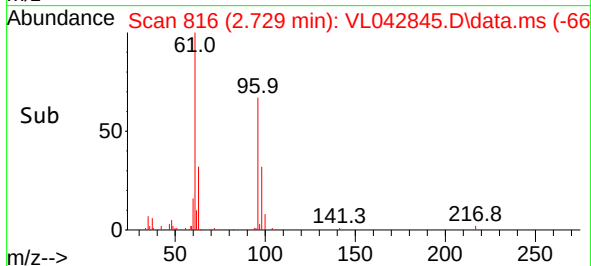
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



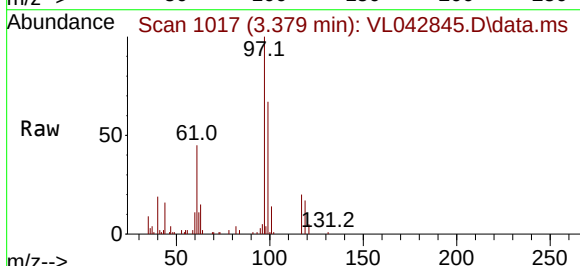
Tgt Ion: 61 Resp: 10308
 Ion Ratio Lower Upper
 61 100
 96 61.7 55.0 82.6
 98 28.7 34.3 51.5

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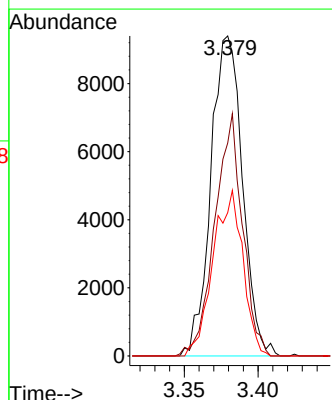
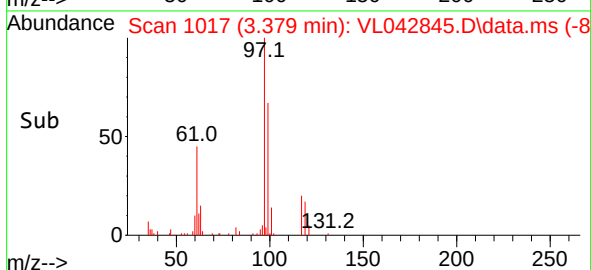
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

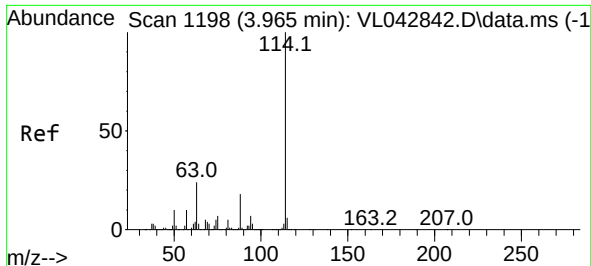


#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.007 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion: 97 Resp: 14011
 Ion Ratio Lower Upper
 97 100
 99 66.4 51.0 76.6
 61 48.9 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

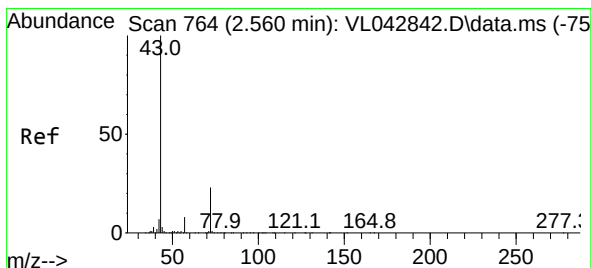
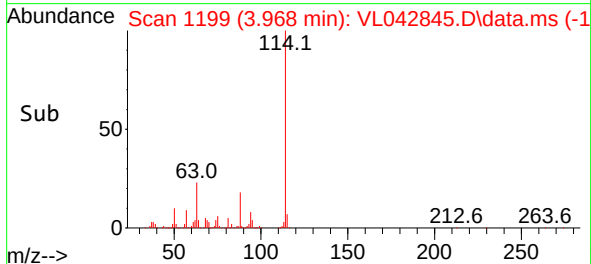
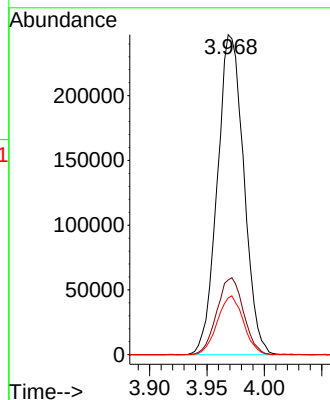
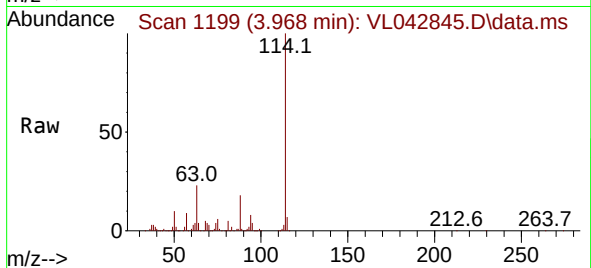
Tgt Ion:114 Resp: 396264

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.7	29.5
88	18.1	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 0.558 ppbv

RT: 2.567 min Scan# 766

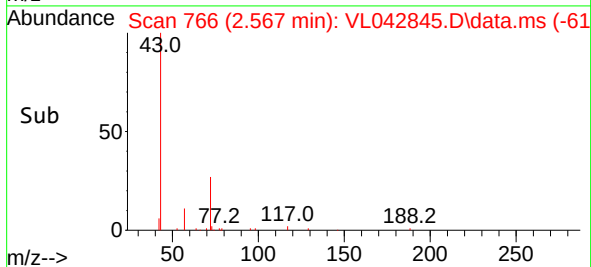
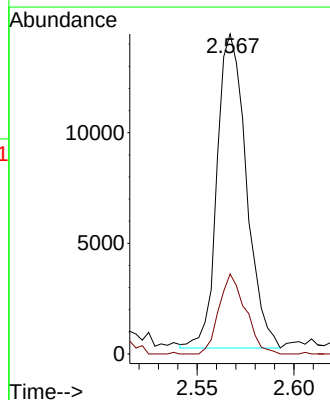
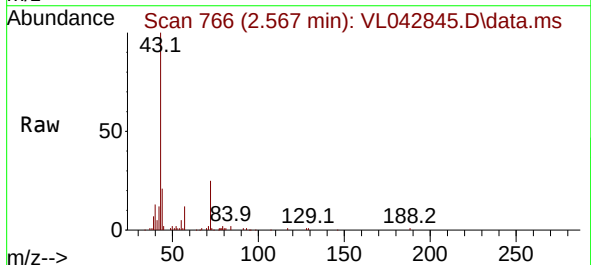
Delta R.T. 0.006 min

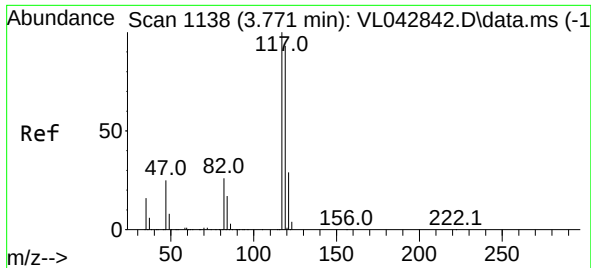
Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 14923

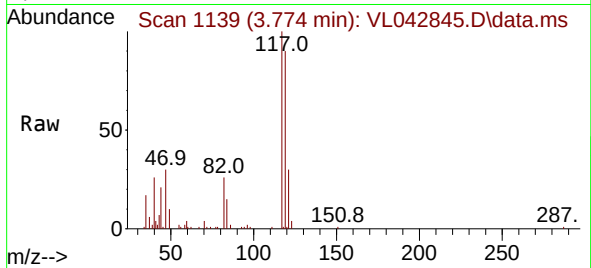
Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

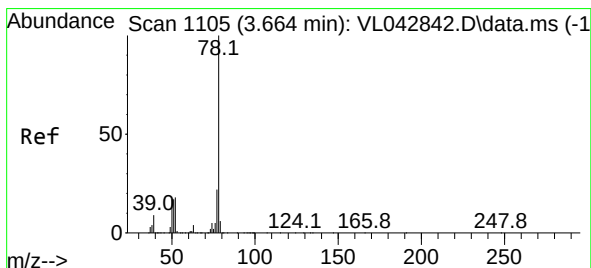
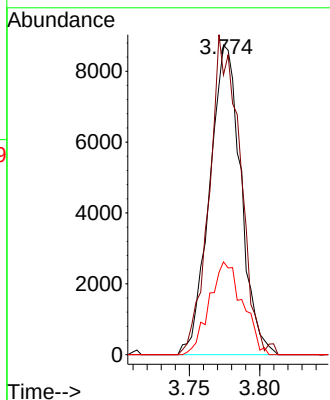
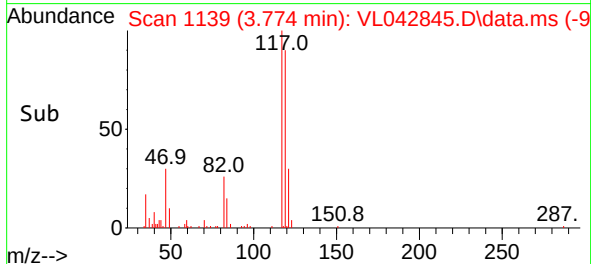
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



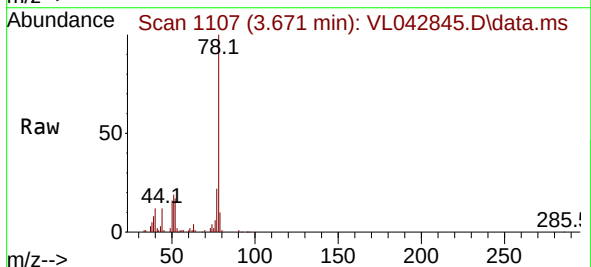
Tgt Ion: 117 Resp: 1350
Ion Ratio Lower Upper
117 100
119 90.3 74.7 112.1
121 30.0 23.2 34.8

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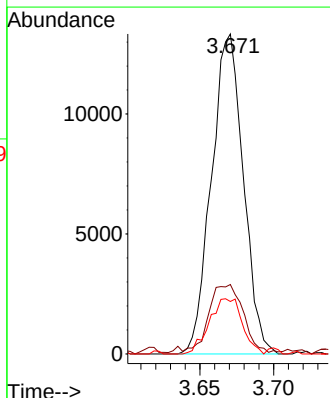
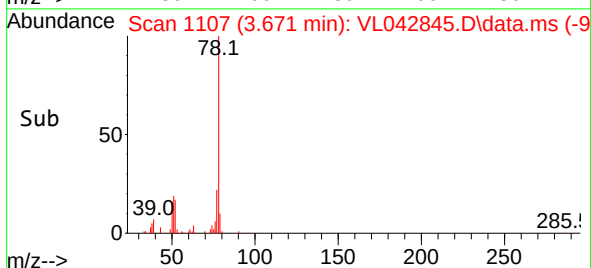
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

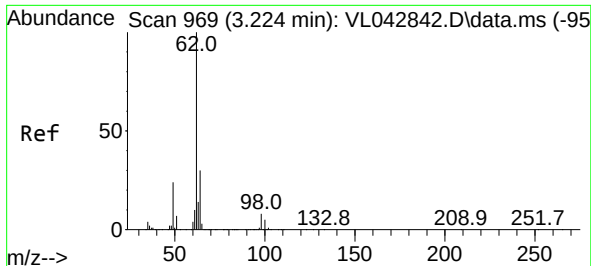


#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion: 78 Resp: 20073
Ion Ratio Lower Upper
78 100
77 21.0 17.7 26.5
50 16.4 13.9 20.9





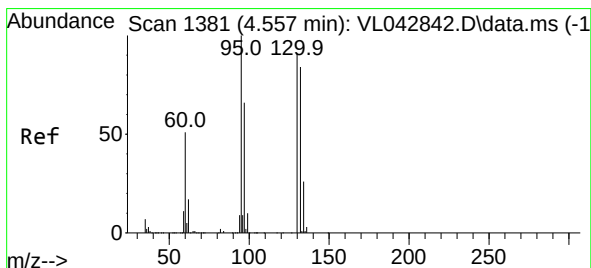
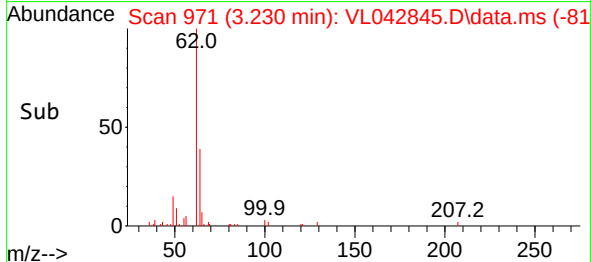
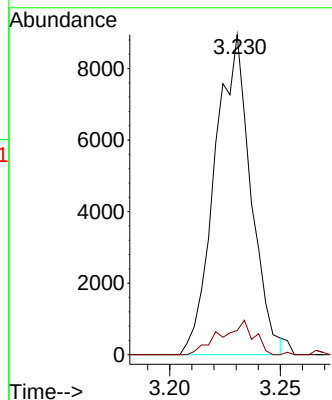
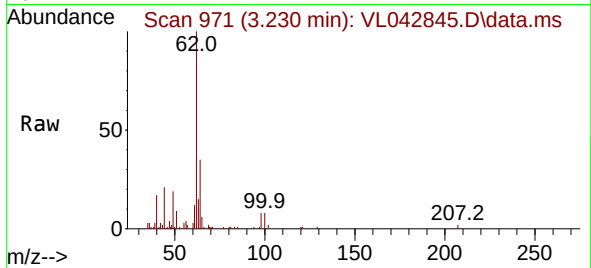
#37
1,2-Dichloroethane
Concen: 0.512 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 1014
Ion Ratio Lower Upper
62 100
98 10.0 5.9 8.9

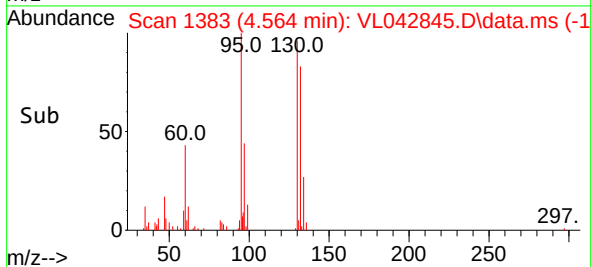
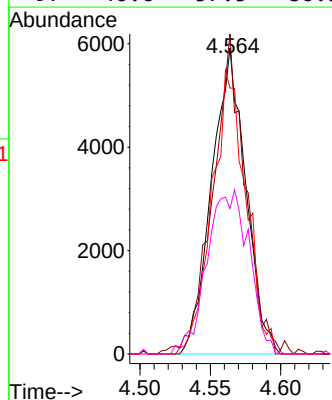
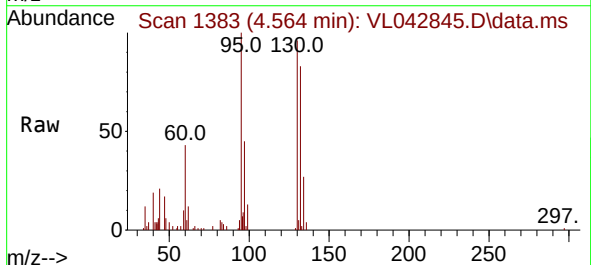
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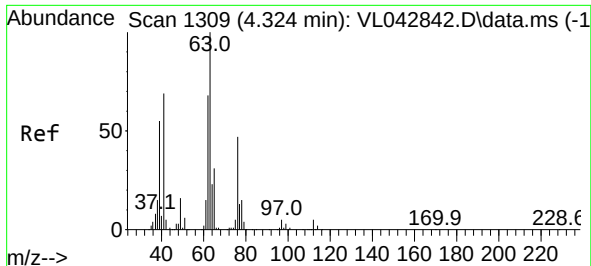
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 0.572 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:130 Resp: 9918
Ion Ratio Lower Upper
130 100
95 103.5 87.6 131.4
132 86.9 73.8 110.8
97 46.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 0.541 ppbv

RT: 4.334 min Scan# 1312

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

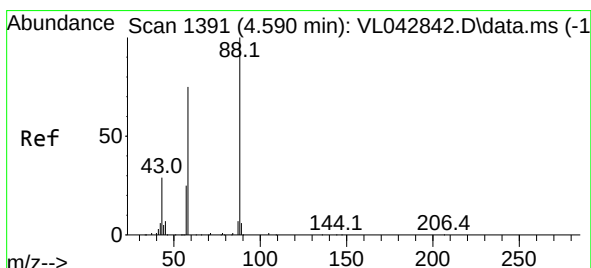
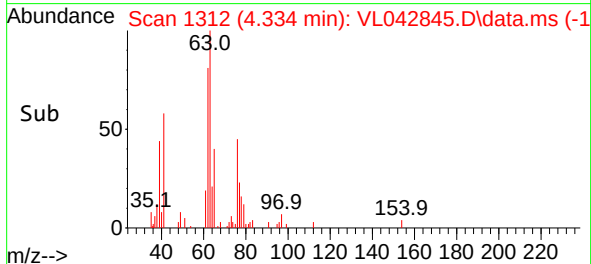
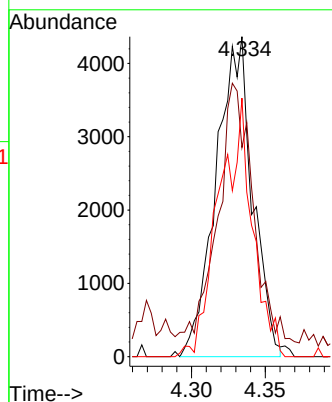
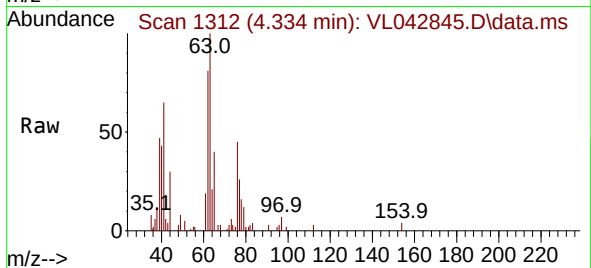
VSTDICC0.5

Tgt Ion: 63	Resp: 749
Ion Ratio	Lower Upper
63 100	
41 57.8	55.0 82.4
62 79.7	54.4 81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 0.577 ppbv m

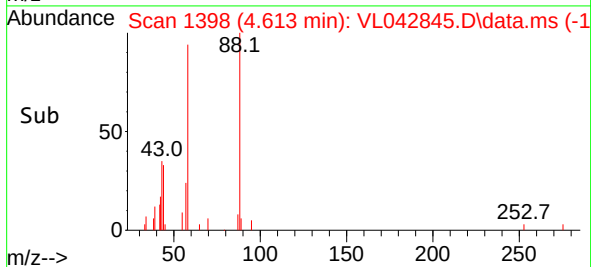
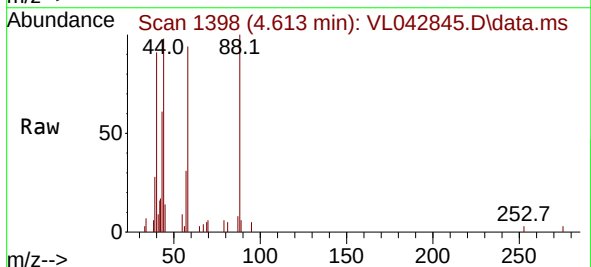
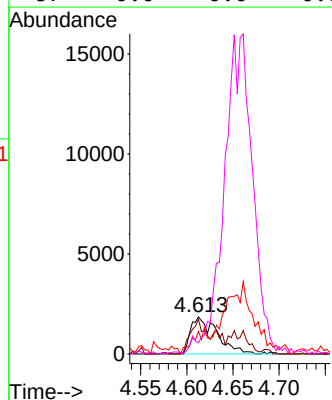
RT: 4.613 min Scan# 1398

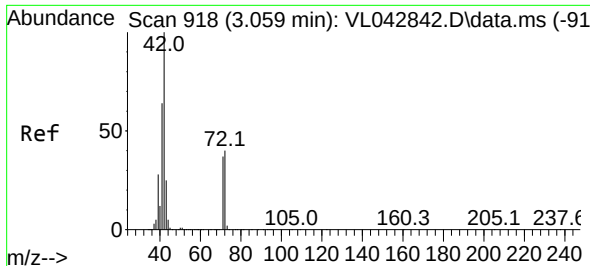
Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

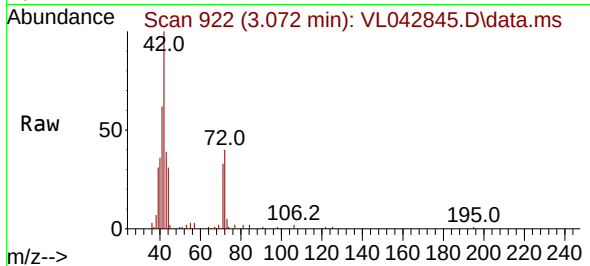
Tgt Ion: 88	Resp: 3743
Ion Ratio	Lower Upper
88 100	
58 118.4	53.8 80.6#
43 0.0	22.8 34.2#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

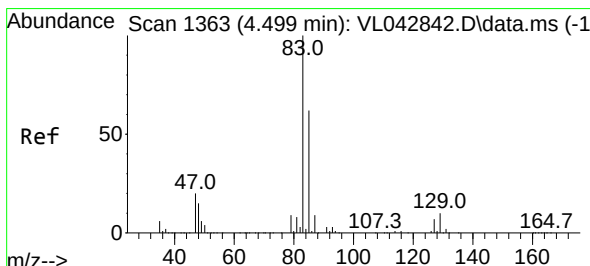
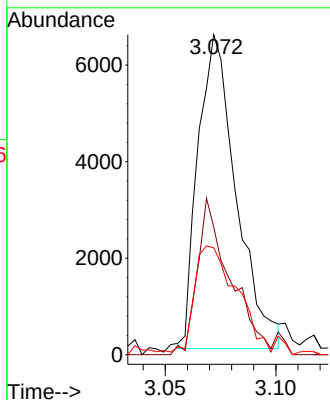
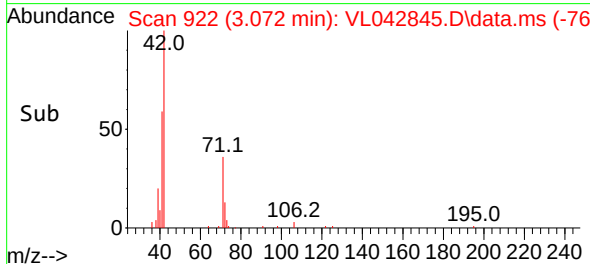
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 42 Resp: 782
Ion Ratio Lower Upper
42 100
72 44.5 32.6 48.8
71 42.0 30.0 45.0

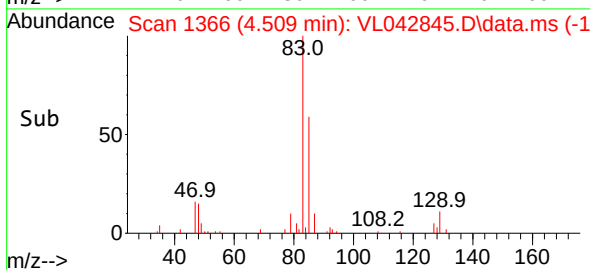
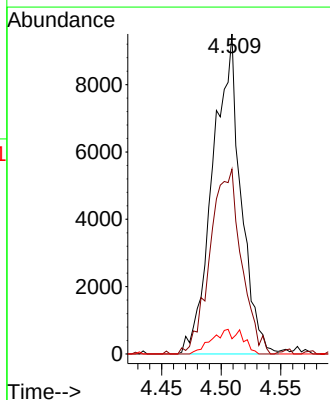
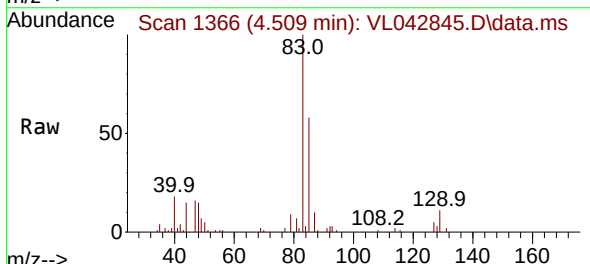
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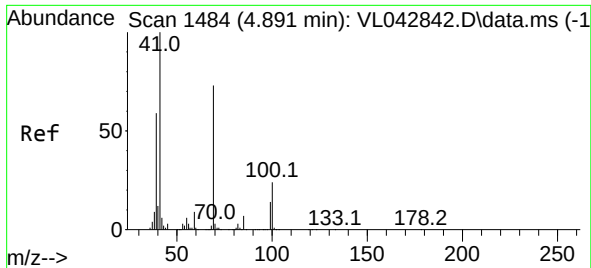
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 0.527 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

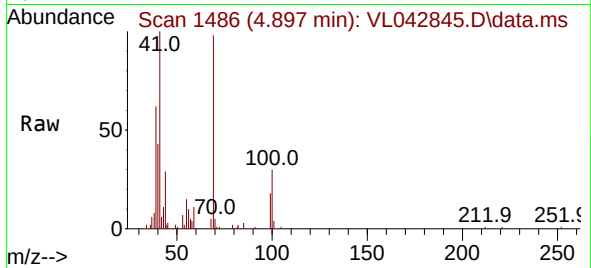
Tgt Ion: 83 Resp: 15580
Ion Ratio Lower Upper
83 100
85 57.7 49.8 74.8
127 4.7 5.8 8.6





#43
Methyl Methacrylate
Concen: 0.544 ppbv m
RT: 4.897 min Scan# 1486
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

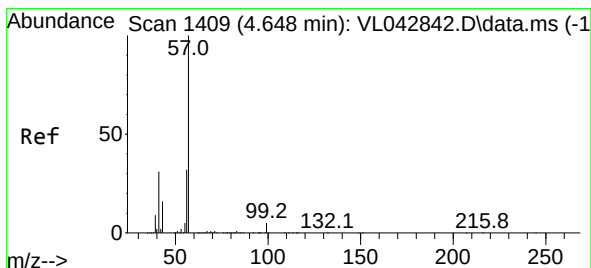
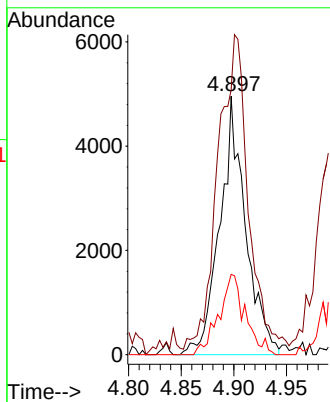
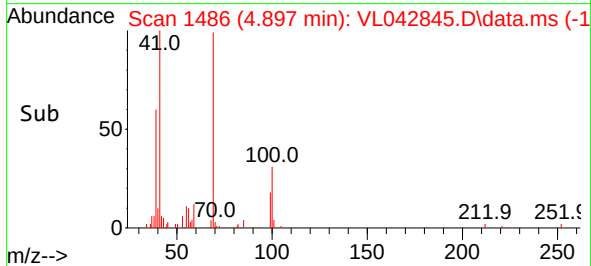
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



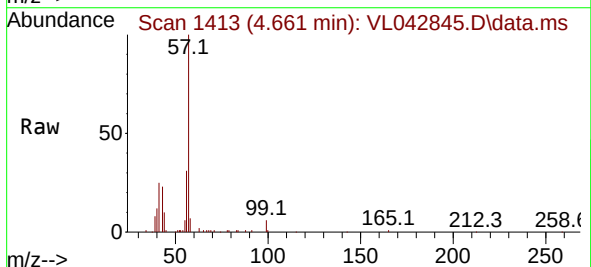
Tgt Ion: 69 Resp: 846
Ion Ratio Lower Upper
69 100
41 141.3 114.6 172.0
100 31.7 30.2 45.4

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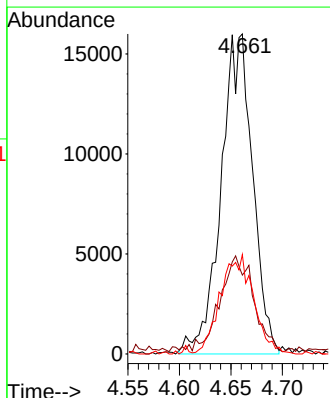
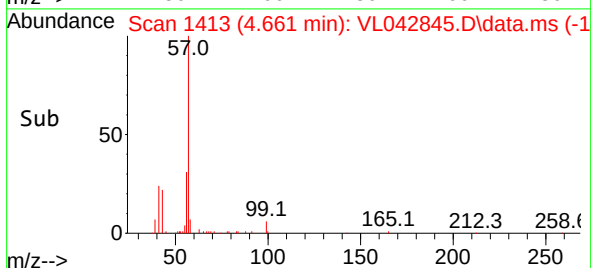
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

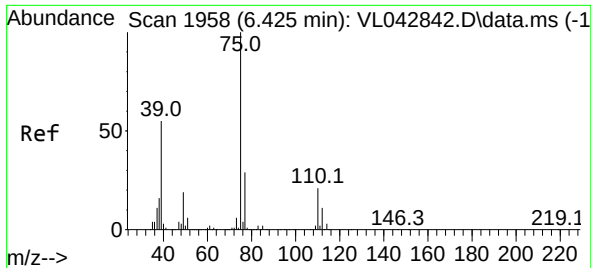


#44
2,2,4-Trimethylpentane
Concen: 0.537 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



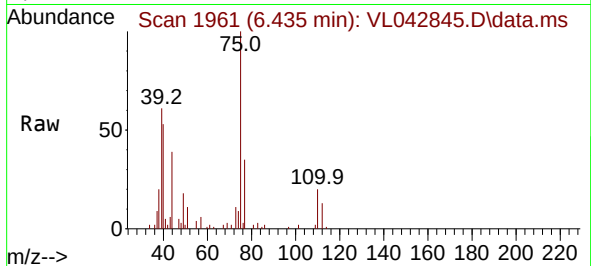
Tgt Ion: 57 Resp: 34237
Ion Ratio Lower Upper
57 100
41 32.2 24.8 37.2
56 0.0 25.5 38.3#





#45
 t-1,3-Dichloropropene
 Concen: 0.505 ppbv m
 RT: 6.435 min Scan# 1958
 Delta R.T. 0.010 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

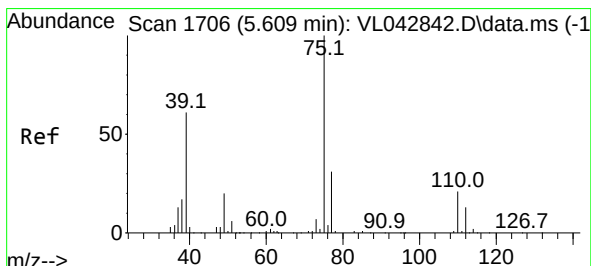
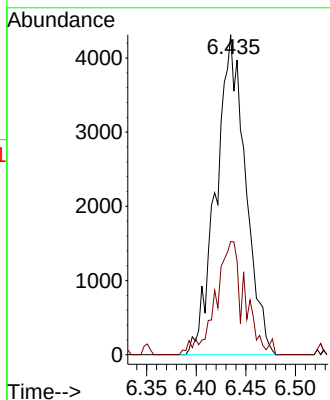
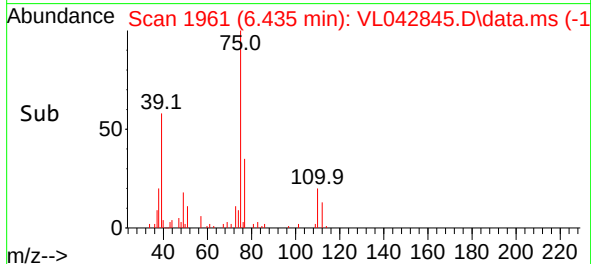
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 75 Resp: 891
 Ion Ratio Lower Upper
 75 100
 77 35.4 23.8 35.6

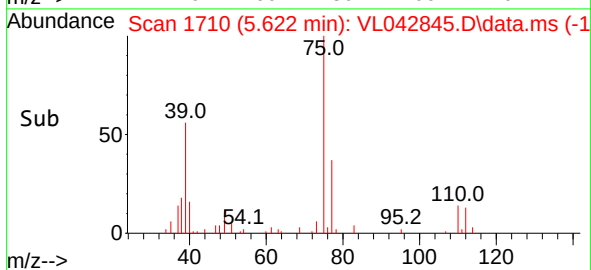
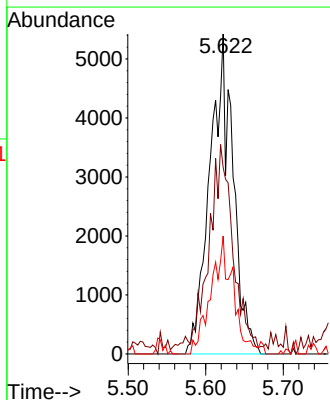
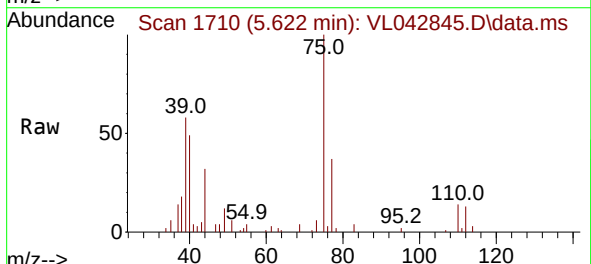
Manual Integrations
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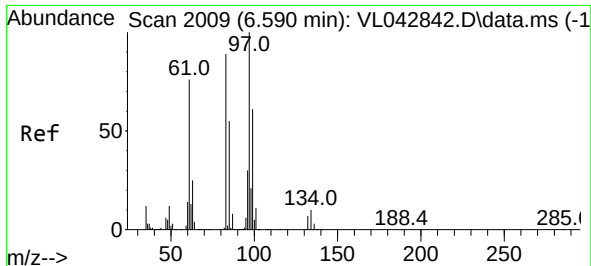
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.508 ppbv m
 RT: 5.622 min Scan# 1710
 Delta R.T. 0.013 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

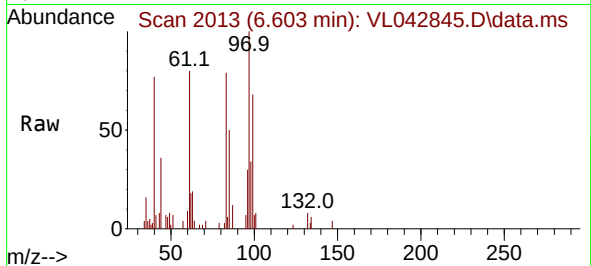
Tgt Ion: 75 Resp: 11259
 Ion Ratio Lower Upper
 75 100
 39 58.3 48.9 73.3
 77 36.9 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 0.534 ppbv m
RT: 6.603 min Scan# 2009
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

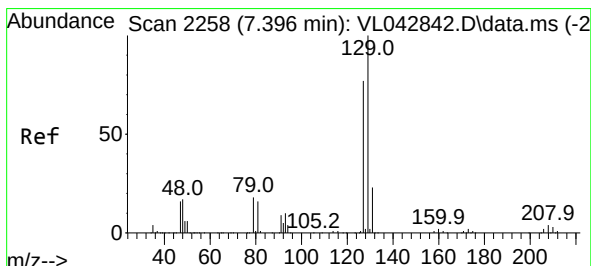
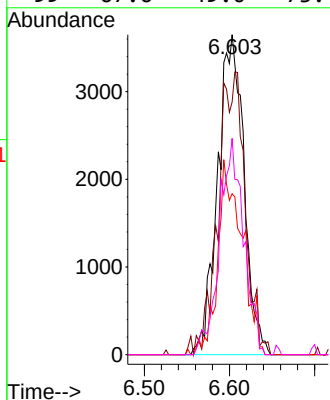
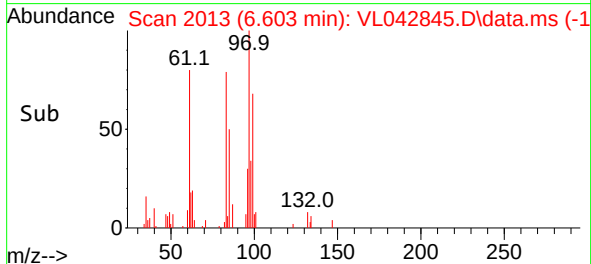
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



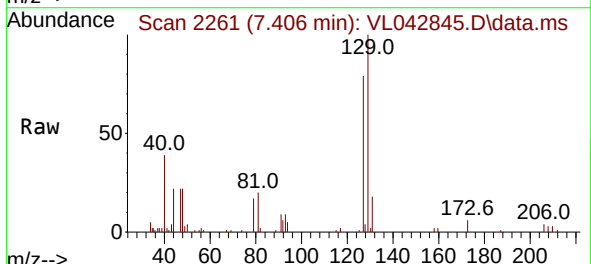
Tgt Ion: 97 Resp: 783
Ion Ratio Lower Upper
97 100
83 78.9 71.0 106.4
85 50.3 43.6 65.4
99 67.6 49.0 73.4

Manual Integrations
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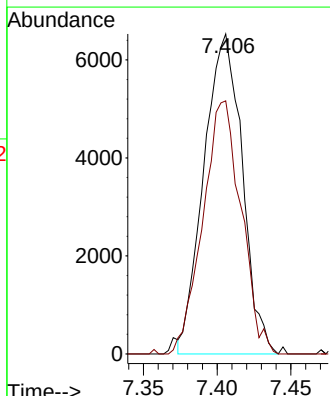
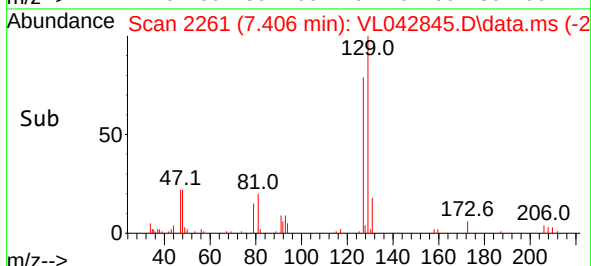
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

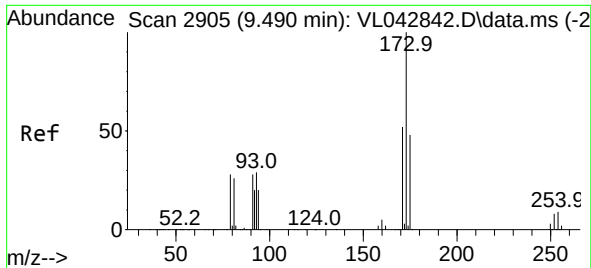


#48
Dibromochloromethane
Concen: 0.497 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



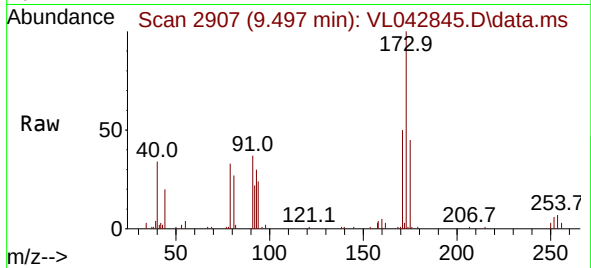
Tgt Ion:129 Resp: 11805
Ion Ratio Lower Upper
129 100
127 79.1 39.4 118.2





#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2905
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

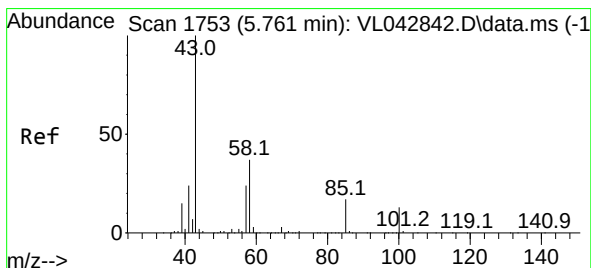
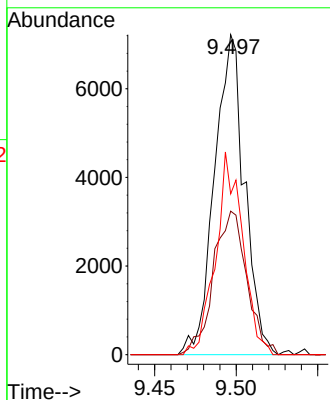
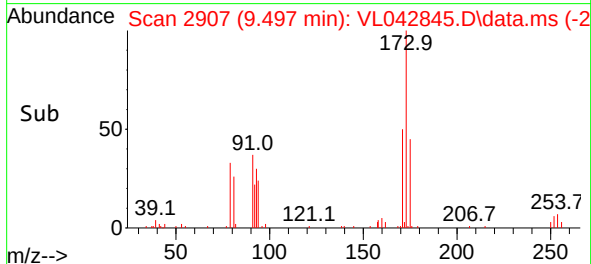
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 173 Resp: 923
Ion Ratio Lower Upper
173 100
175 49.9 39.2 58.8
171 57.0 41.3 61.9

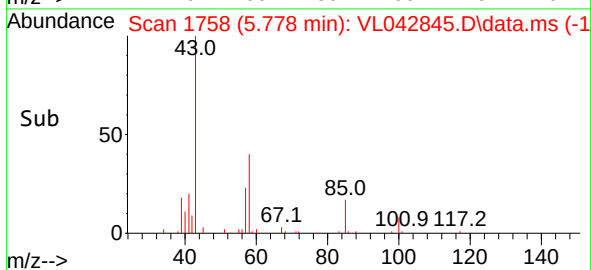
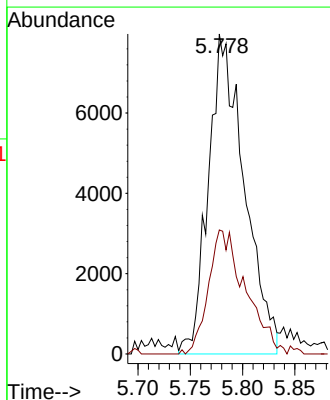
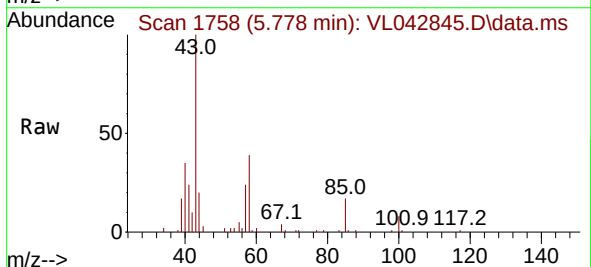
Manual Integrations
APPROVED

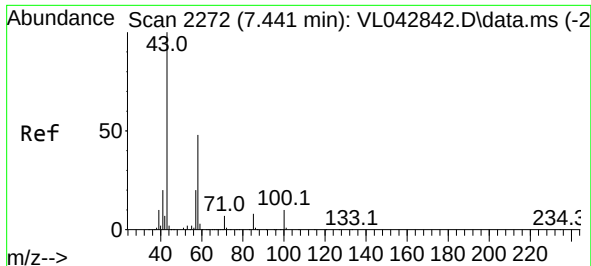
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 0.524 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

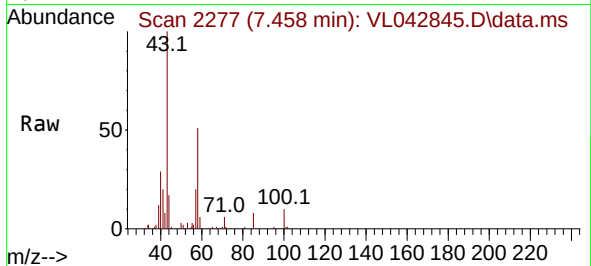
Tgt Ion: 43 Resp: 19028
Ion Ratio Lower Upper
43 100
58 40.4 29.8 44.8





#51
2-Hexanone
Concen: 0.503 ppbv
RT: 7.458 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

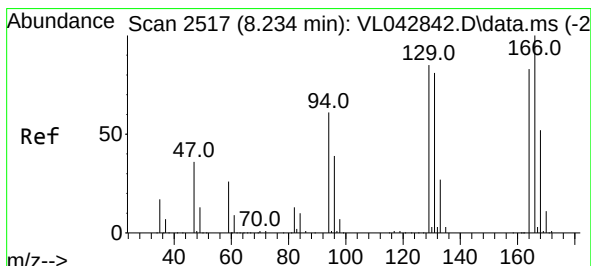
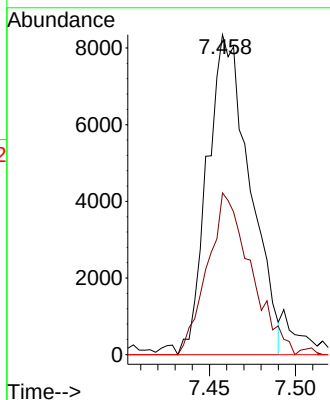
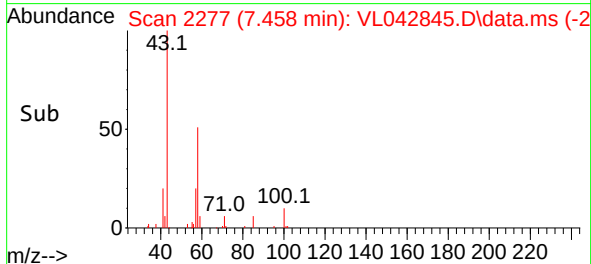
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 14329
Ion Ratio Lower Upper
43 100
58 52.3 41.0 61.6
98 0.0 0.1 0.1

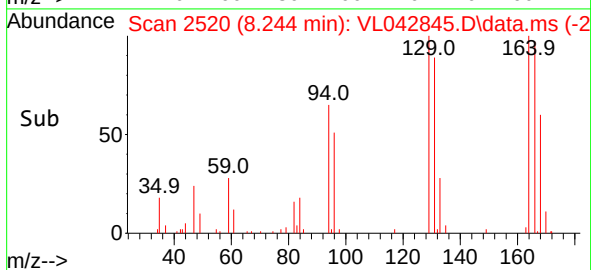
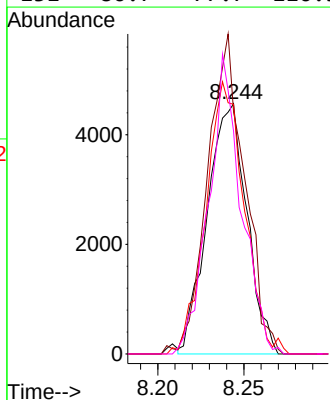
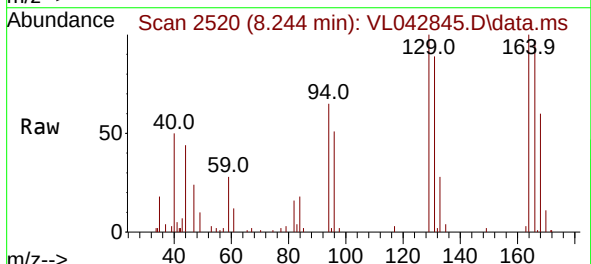
Manual Integrations
APPROVED

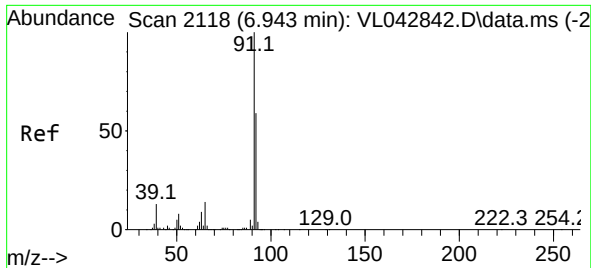
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:164 Resp: 7304
Ion Ratio Lower Upper
164 100
166 95.1 96.5 144.7#
129 98.0 81.8 122.6
131 86.7 77.7 116.5





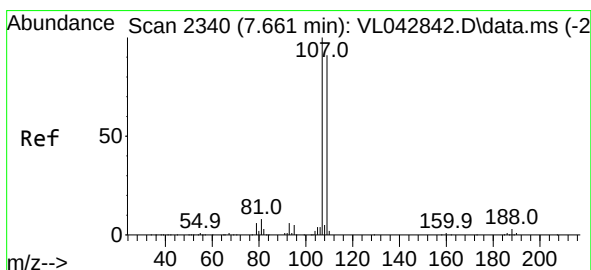
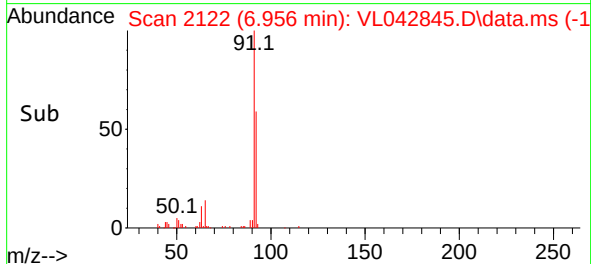
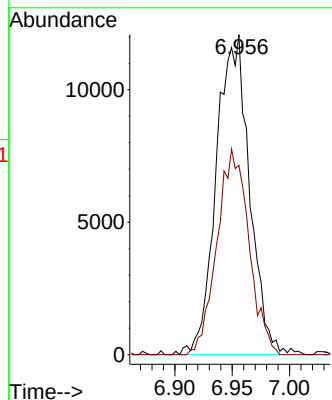
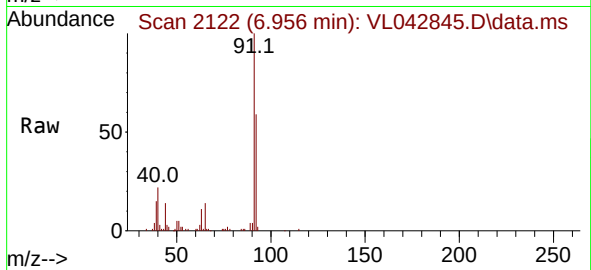
#53
Toluene
Concen: 0.535 ppbv m
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 2415
Ion Ratio Lower Upper
91 100
92 62.1 47.8 71.6

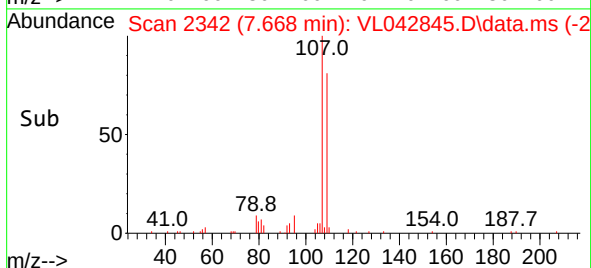
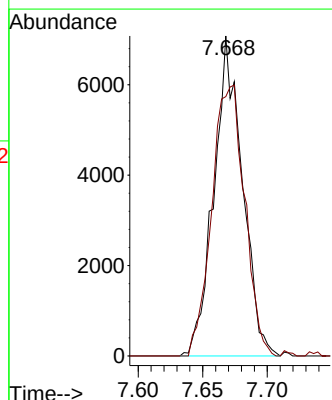
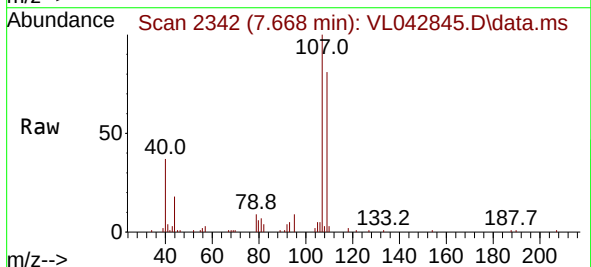
Manual Integrations
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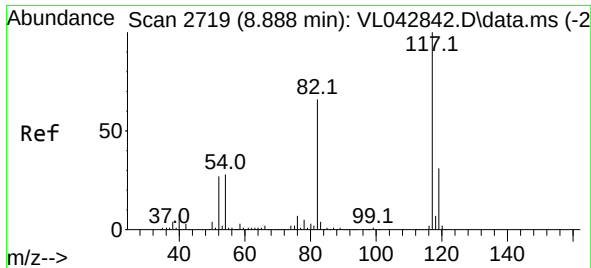
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:107 Resp: 10873
Ion Ratio Lower Upper
107 100
109 81.0 72.5 108.7





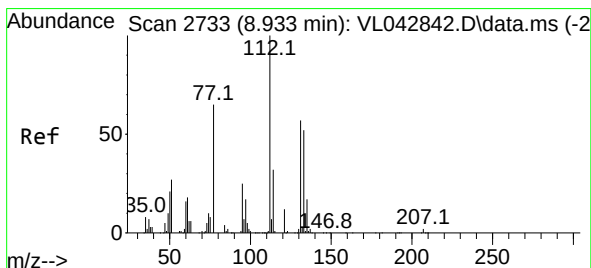
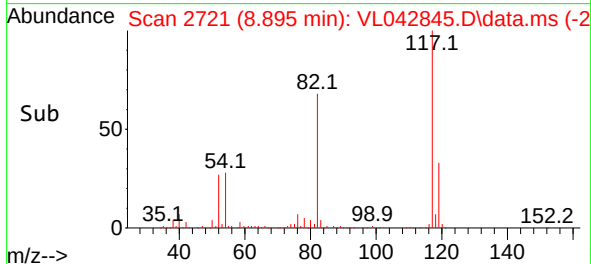
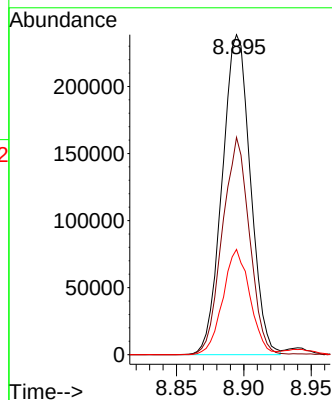
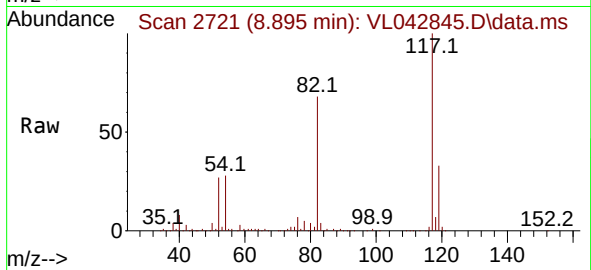
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 34800
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 33.4 25.9 38.9

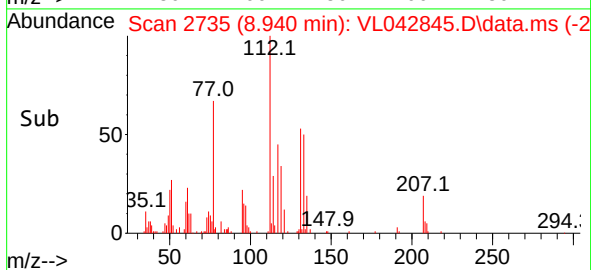
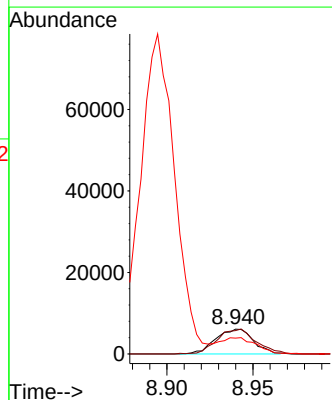
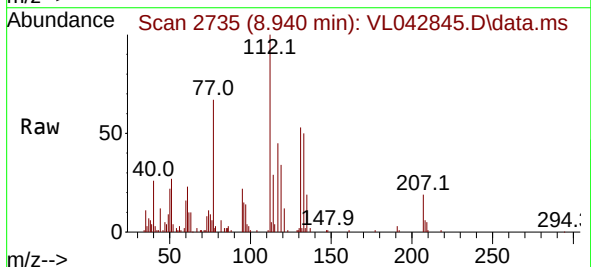
Manual Integrations
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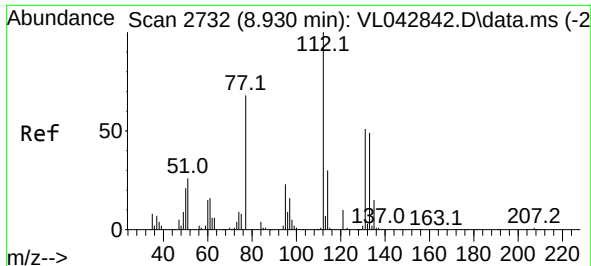
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:131 Resp: 9300
Ion Ratio Lower Upper
131 100
133 102.5 77.4 116.0
119 1250.4 51.2 76.8#





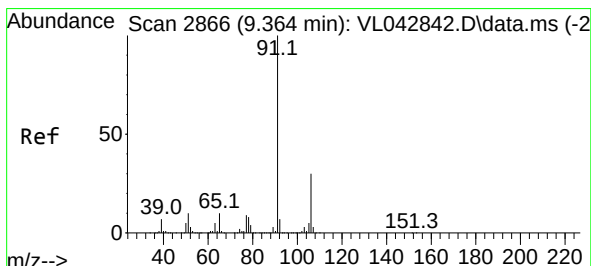
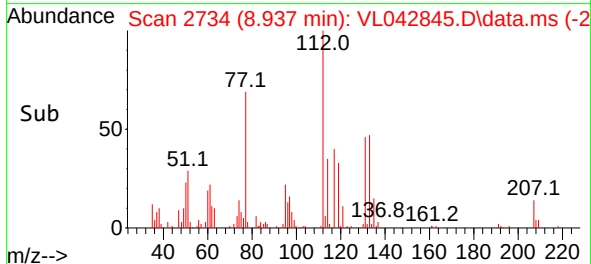
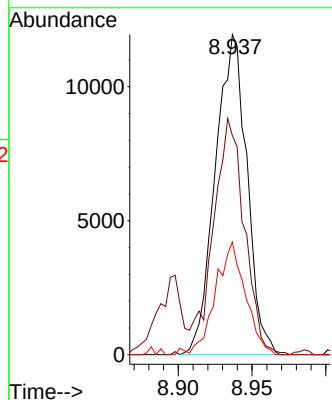
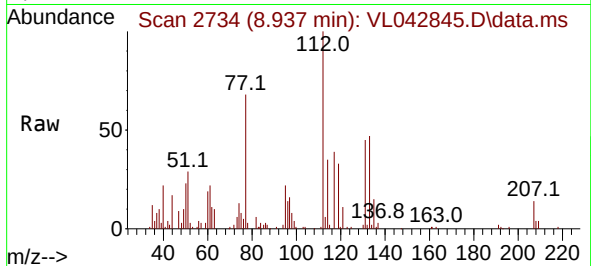
#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 1784
Ion Ratio Lower Upper
112 100
77 67.8 55.5 83.3
114 35.2 27.2 33.2

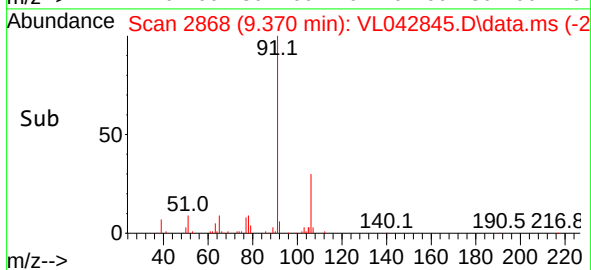
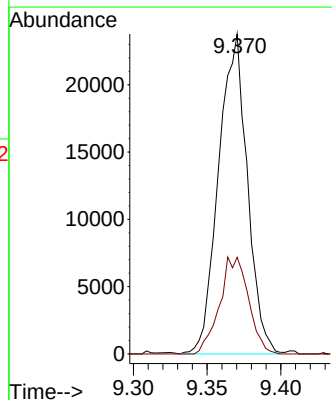
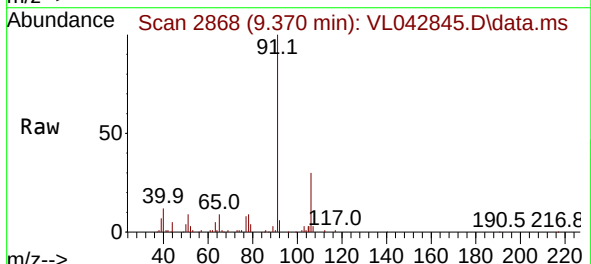
Manual Integrations
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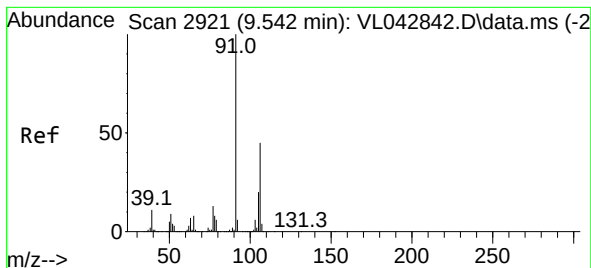
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 0.525 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9





#59

m/p-Xylene

Concen: 1.045 ppbv m

RT: 9.561 min Scan# 2921

Delta R.T. 0.019 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 50372

Ion Ratio Lower Upper

91 100

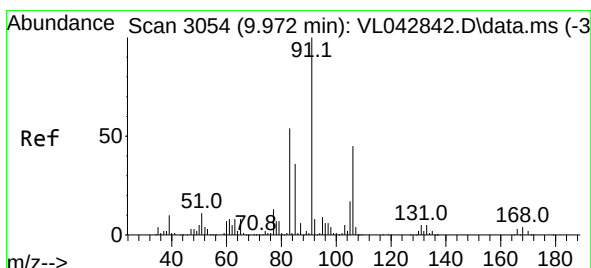
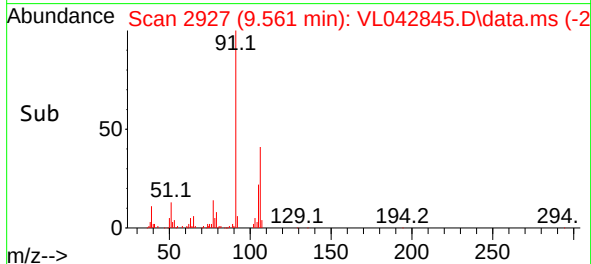
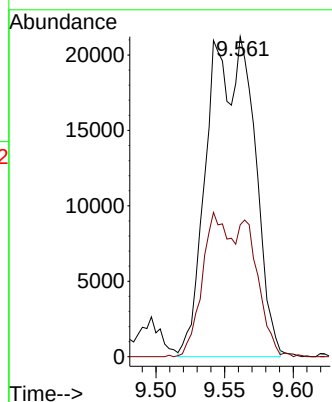
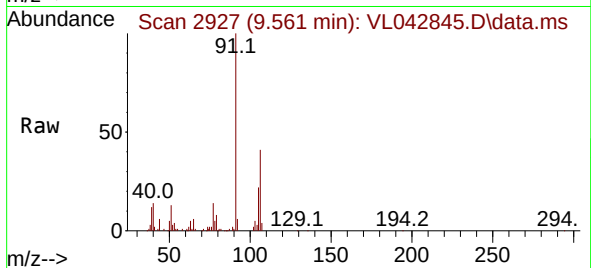
106 46.9 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 0.551 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.007 min

Lab File: VL042845.D

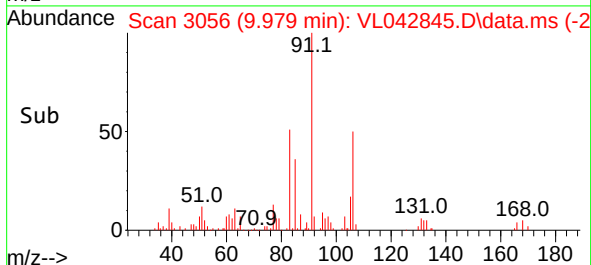
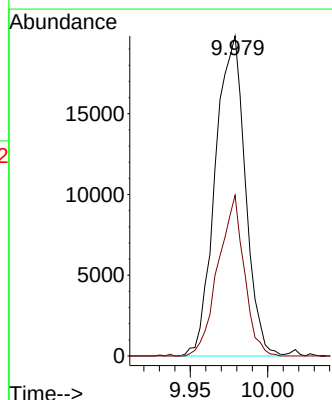
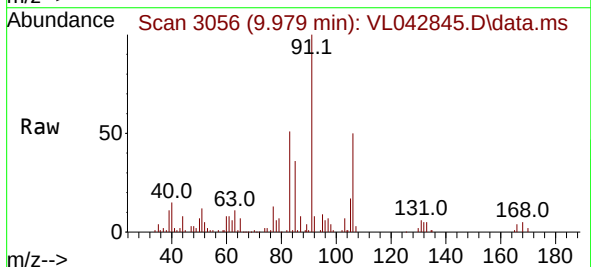
Acq: 13 Aug 2025 10:17

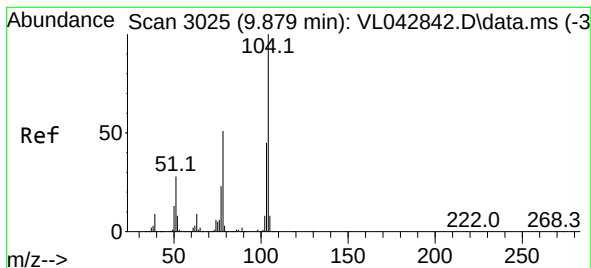
Tgt Ion: 91 Resp: 26662

Ion Ratio Lower Upper

91 100

106 43.8 21.8 65.4





#61

Styrene

Concen: 0.546 ppbv

RT: 9.885 min Scan# 3025

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

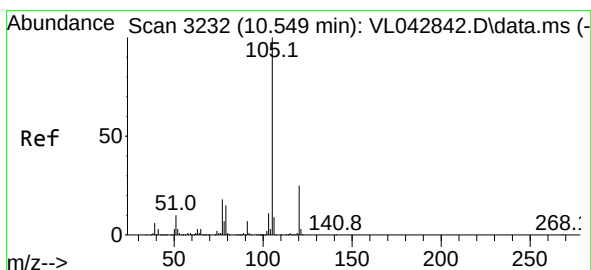
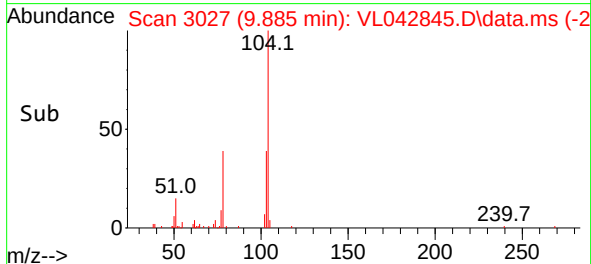
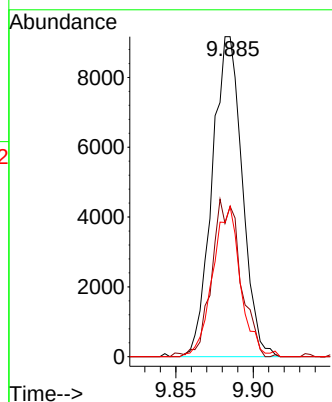
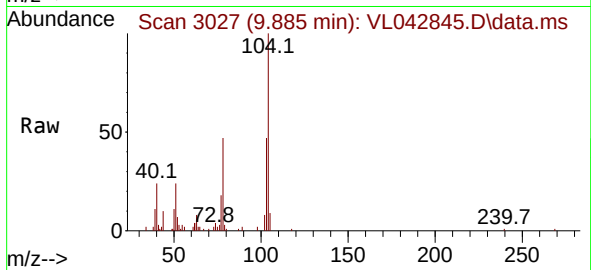
VSTDICC0.5

Tgt Ion:104	Resp:	12379
Ion Ratio	Lower	Upper
104	100	
78	47.4	40.6 61.0
103	43.4	37.7 56.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62

Isopropylbenzene

Concen: 0.529 ppbv

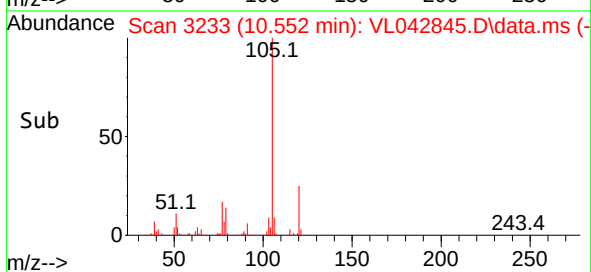
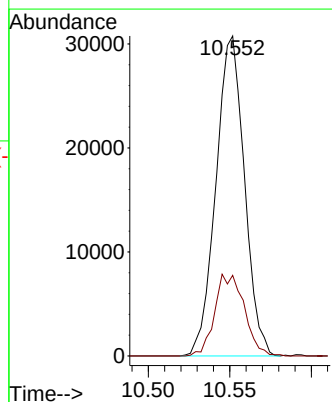
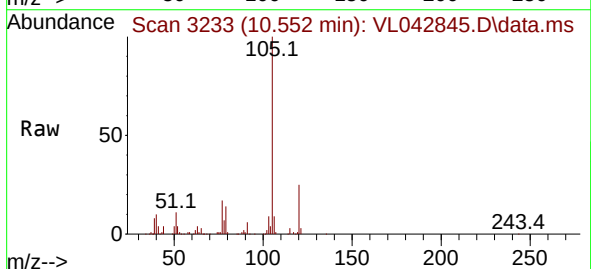
RT: 10.552 min Scan# 3233

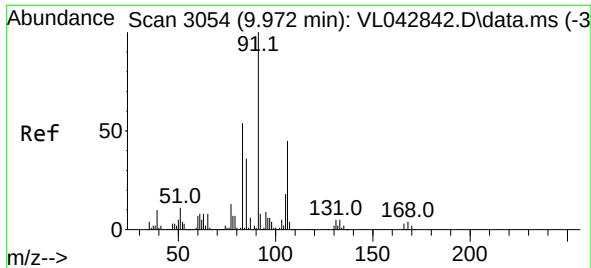
Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion:105	Resp:	37401
Ion Ratio	Lower	Upper
105	100	
120	26.5	20.6 30.8





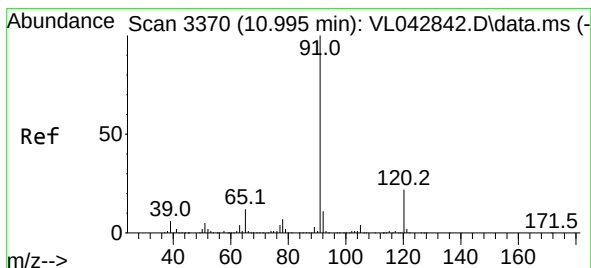
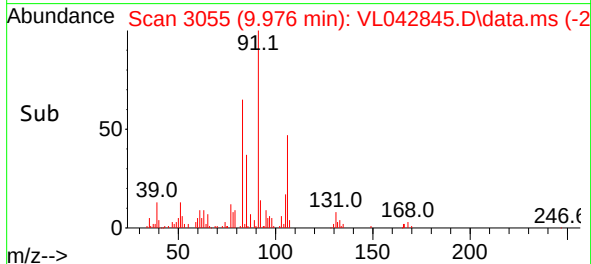
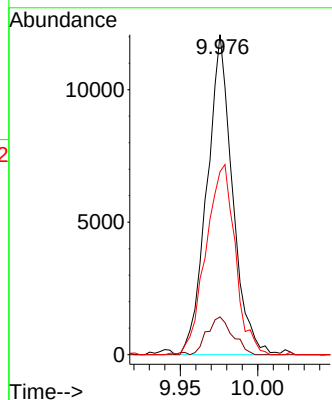
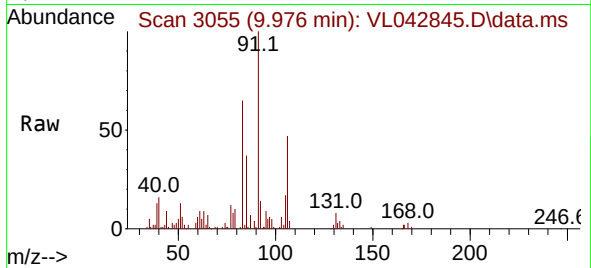
#63
1,1,2,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 13828
Ion Ratio Lower Upper
83 100
131 12.0 4.8 14.3
85 68.3 32.3 96.8

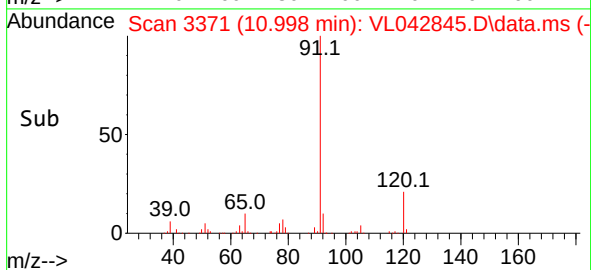
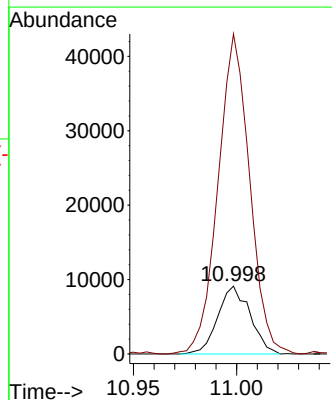
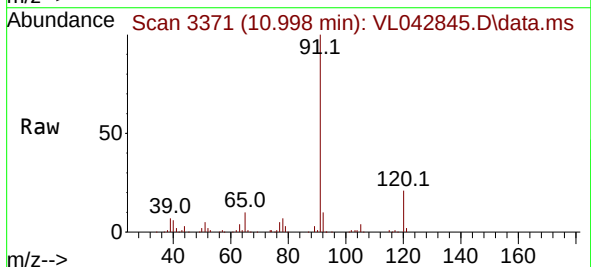
Manual Integrations
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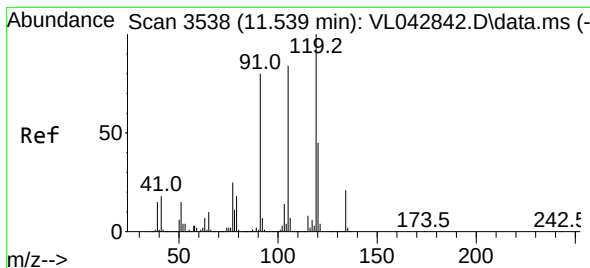
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#64
n-propylbenzene
Concen: 0.550 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

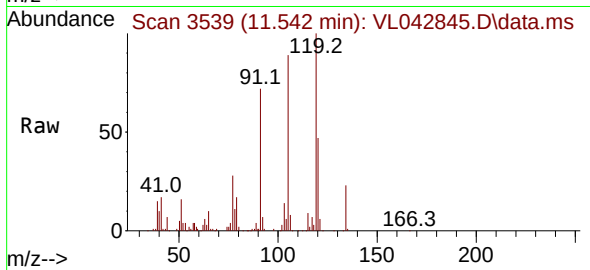
Tgt Ion:120 Resp: 9922
Ion Ratio Lower Upper
120 100
91 463.3 375.8 563.6





#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

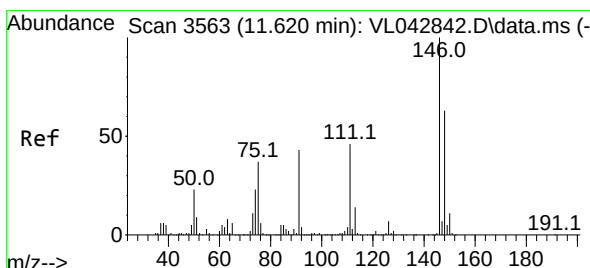
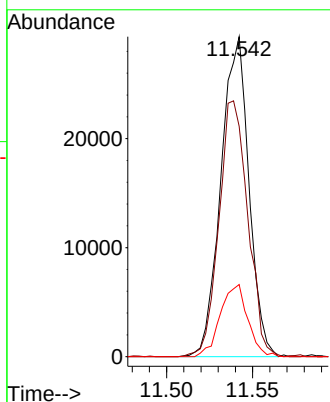
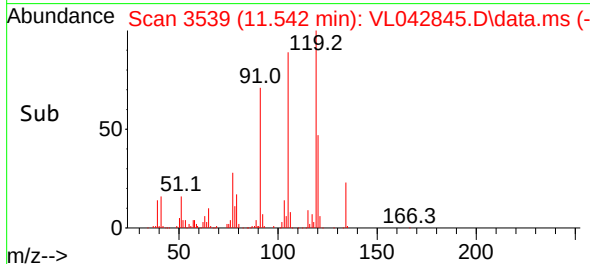
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



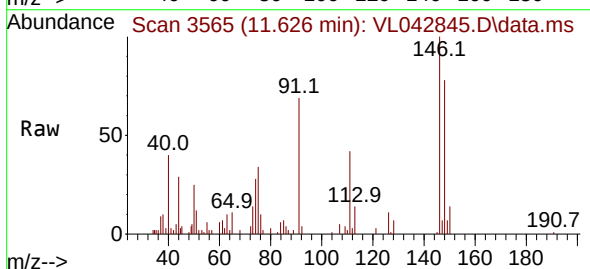
Tgt Ion: 119 Resp: 3318
Ion Ratio Lower Upper
119 100
91 82.8 63.9 95.9
134 22.1 17.0 25.4

Manual Integrations
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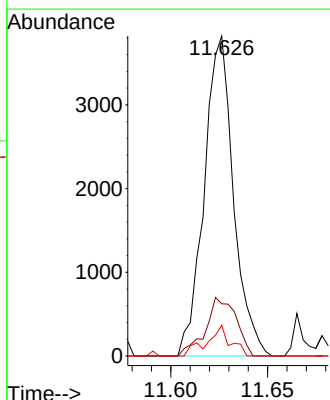
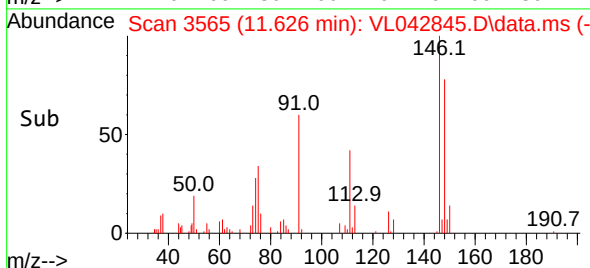
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

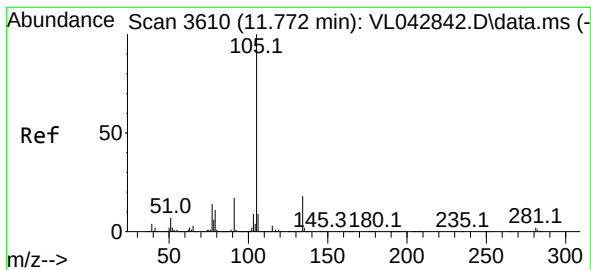


#66
Benzyl Chloride
Concen: 0.510 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



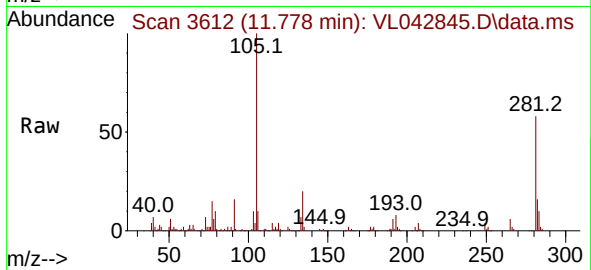
Tgt Ion: 91 Resp: 4039
Ion Ratio Lower Upper
91 100
126 19.0 14.2 21.4
128 7.6 5.0 7.6#





#67
 sec-Butylbenzene
 Concen: 0.530 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

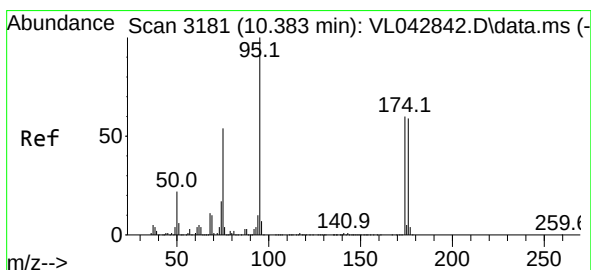
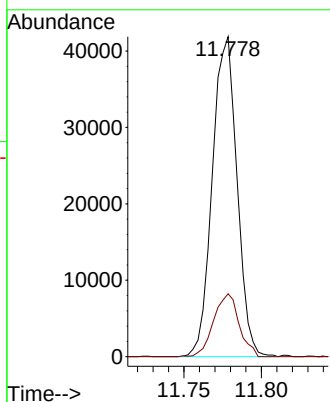
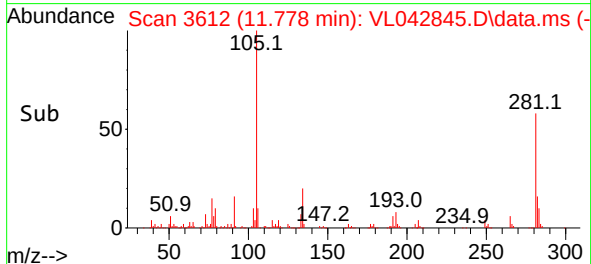
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



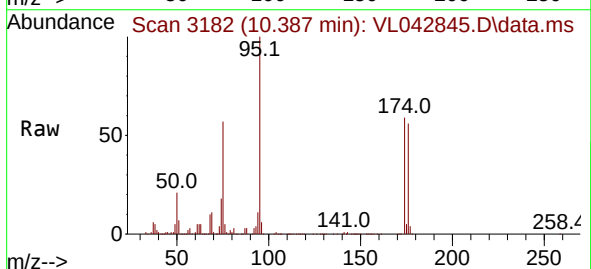
Tgt Ion: 105 Resp: 4643
 Ion Ratio Lower Upper
 105 100
 134 20.3 14.9 22.3

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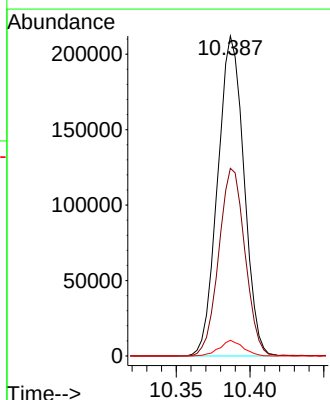
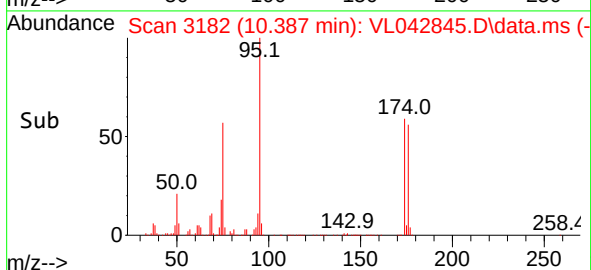
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

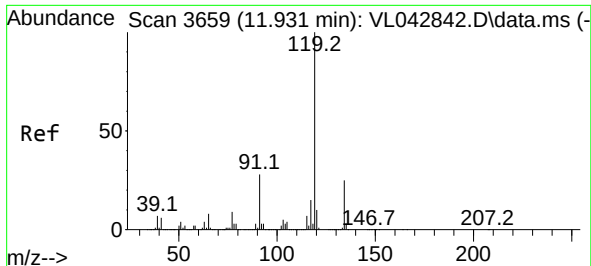


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion: 95 Resp: 262663
 Ion Ratio Lower Upper
 95 100
 174 58.8 48.4 72.6
 175 4.4 3.8 5.8





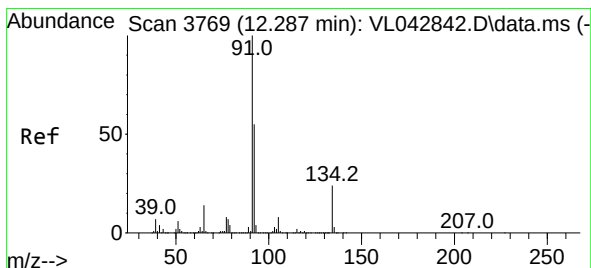
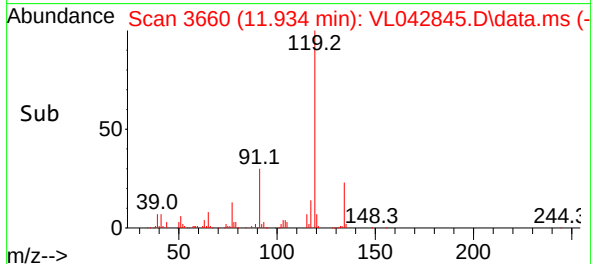
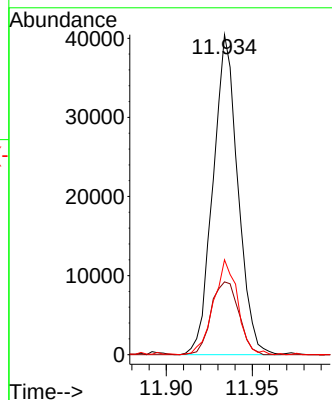
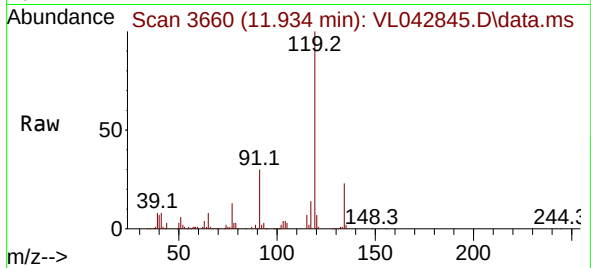
#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.934 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:119 Resp: 40680
Ion Ratio Lower Upper
119 100
134 25.4 20.6 30.8
91 29.0 22.6 34.0

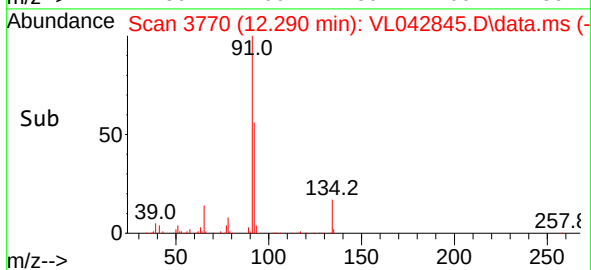
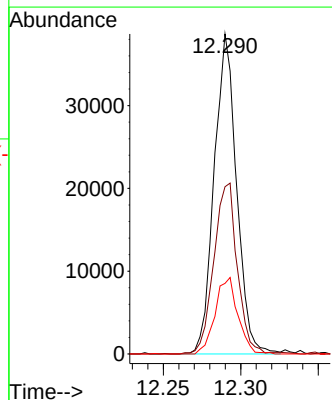
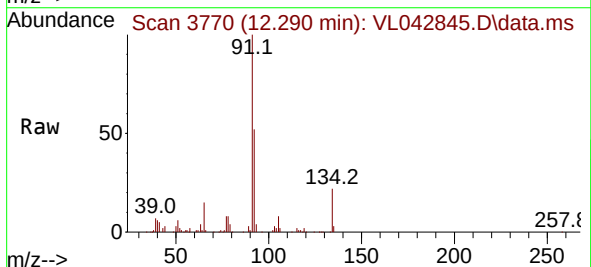
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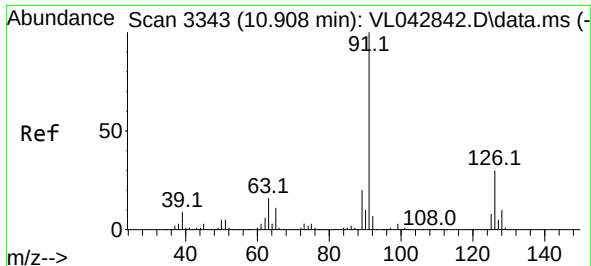
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#70
n-Butylbenzene
Concen: 0.521 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 38867
Ion Ratio Lower Upper
91 100
92 56.1 44.6 66.8
134 24.2 19.0 28.4





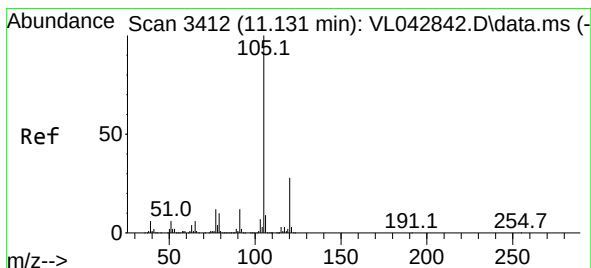
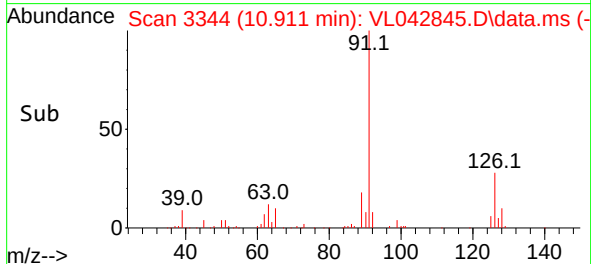
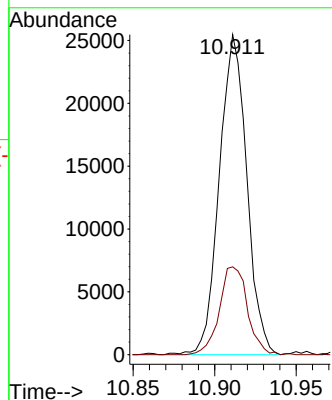
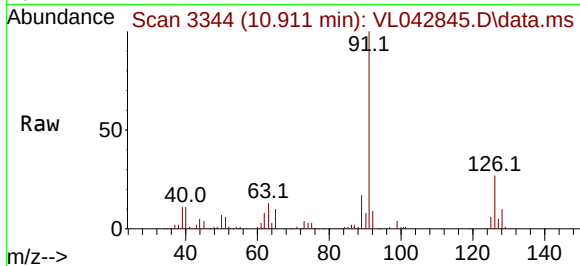
#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 29730
Ion Ratio Lower Upper
91 100
126 28.2 12.0 47.8

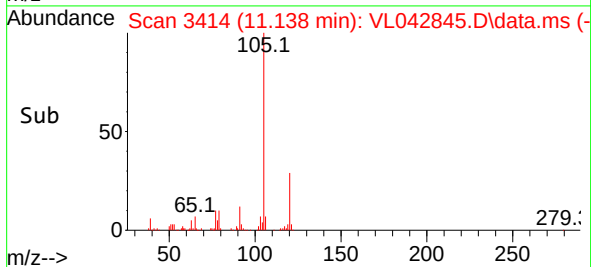
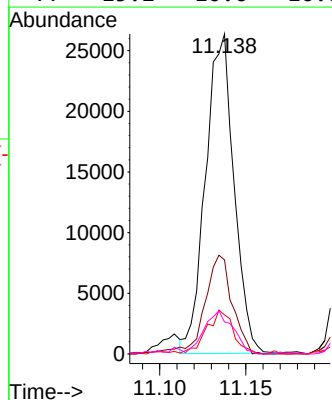
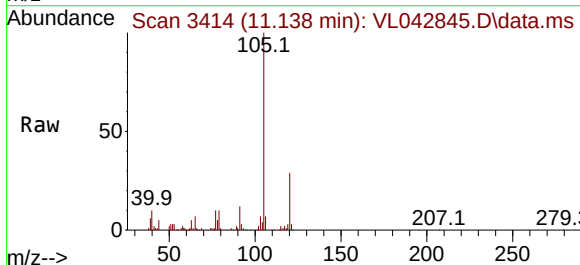
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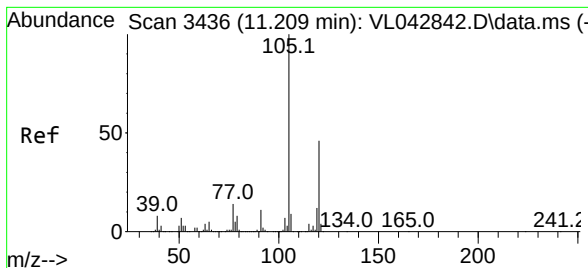
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 30234
Ion Ratio Lower Upper
105 100
120 30.5 23.4 35.2
91 13.8 9.8 14.6
77 15.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 0.540 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 2694

Ion Ratio Lower Upper

105 100

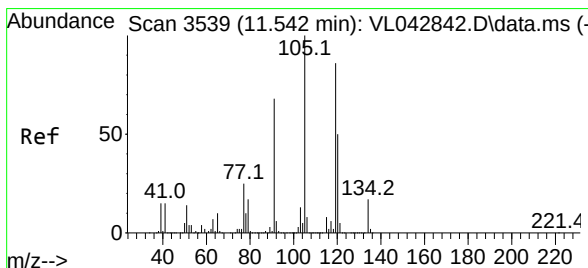
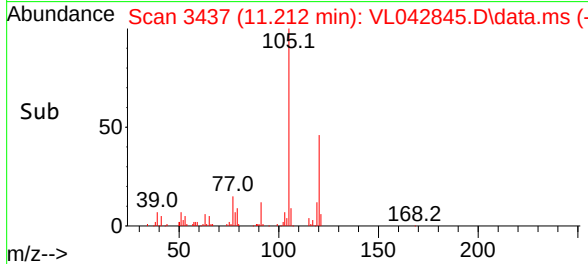
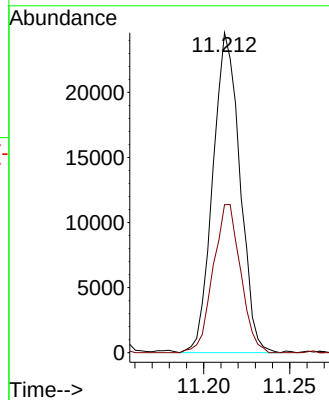
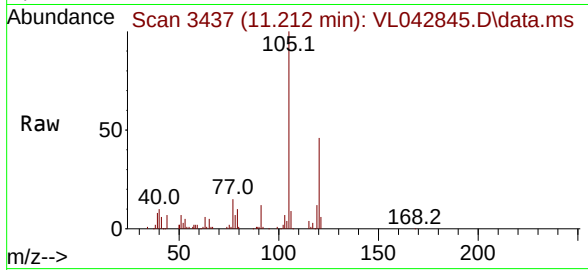
120 46.2 36.6 54.8

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.543 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 29750

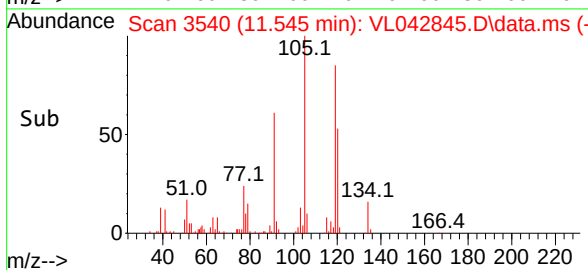
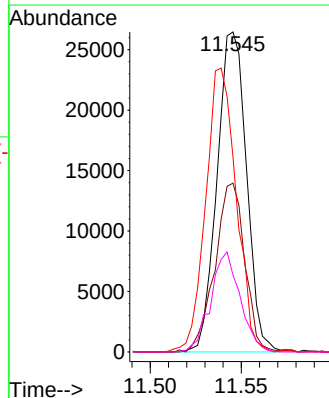
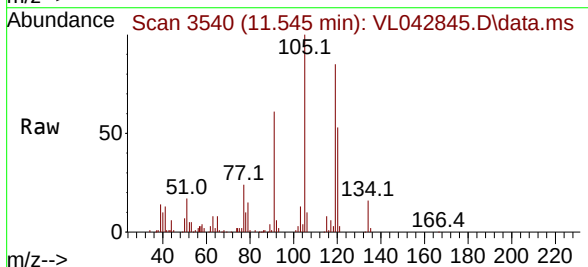
Ion Ratio Lower Upper

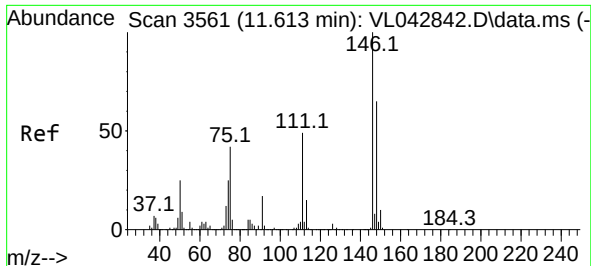
105 100

120 52.4 39.8 59.6

91 60.6 54.2 81.4

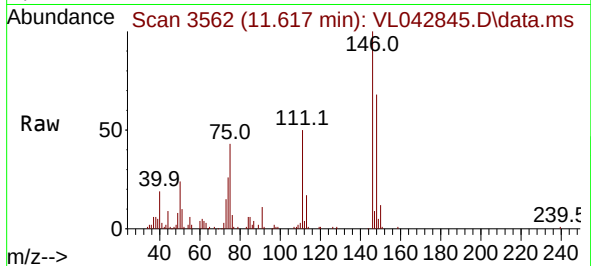
77 24.0 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 0.524 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

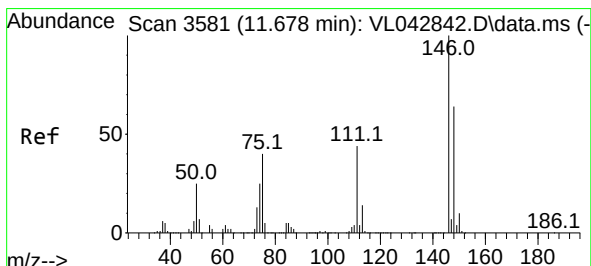
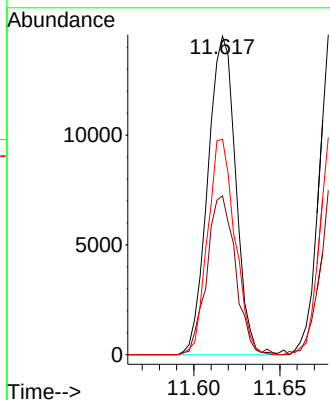
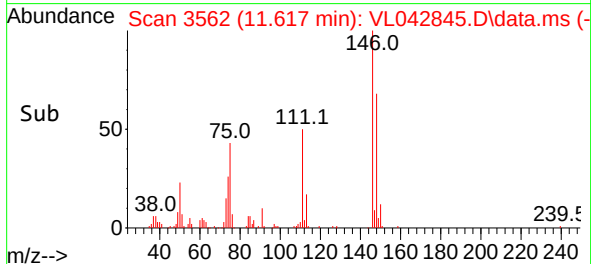
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



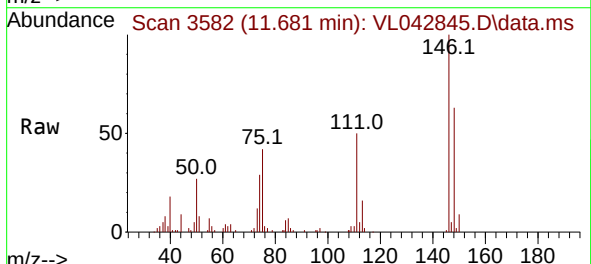
Tgt Ion:146 Resp: 1631
Ion Ratio Lower Upper
146 100
111 51.2 23.9 71.7
148 66.5 31.4 94.0

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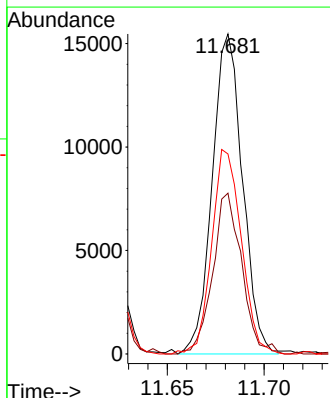
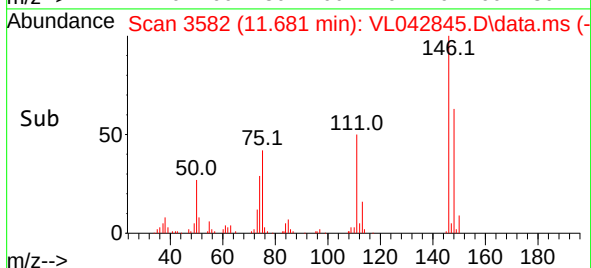
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

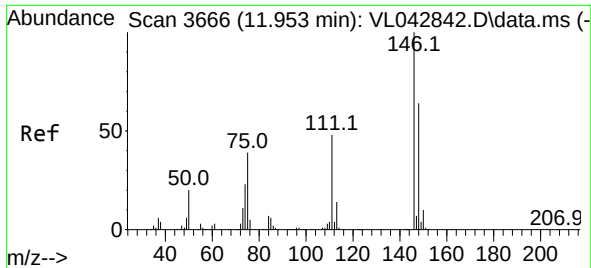


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:146 Resp: 16803
Ion Ratio Lower Upper
146 100
111 48.3 22.7 68.1
148 62.7 31.8 95.3





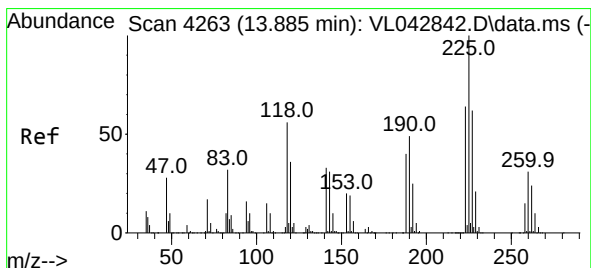
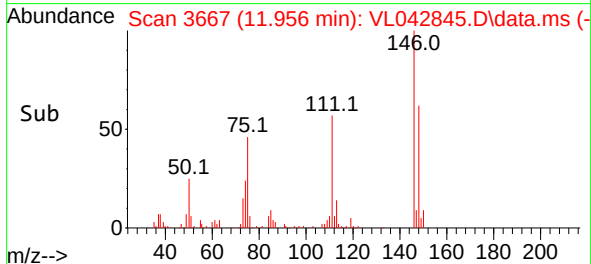
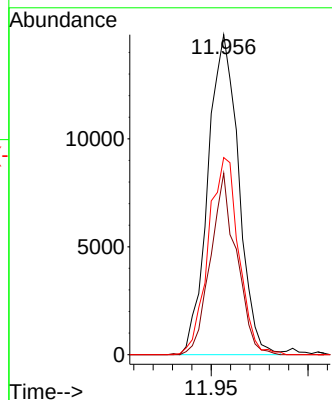
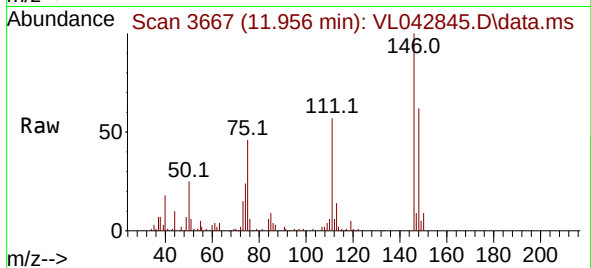
#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3667
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 16300
Ion Ratio Lower Upper
146 100
111 48.2 24.6 74.0
148 61.1 32.0 96.0

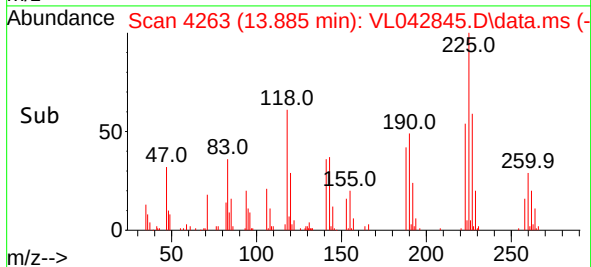
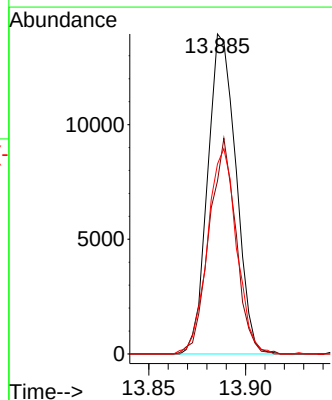
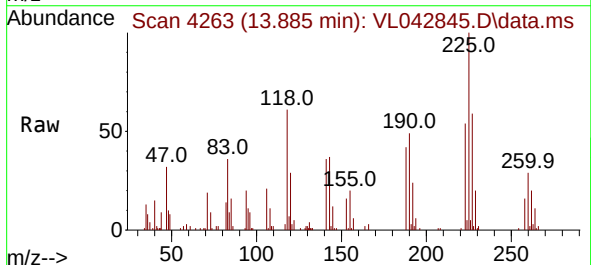
Manual Integrations
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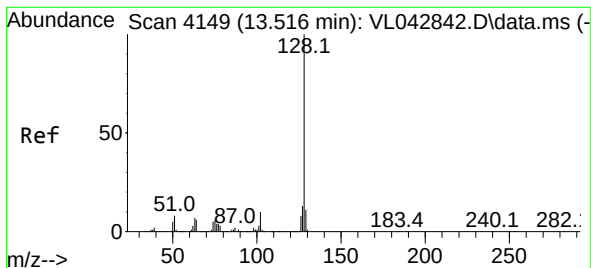
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

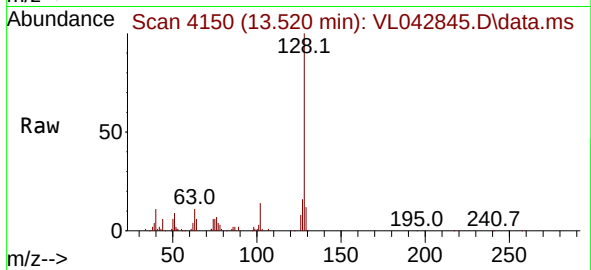
Tgt Ion:225 Resp: 14165
Ion Ratio Lower Upper
225 100
223 63.7 51.4 77.2
227 66.2 51.9 77.9





#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

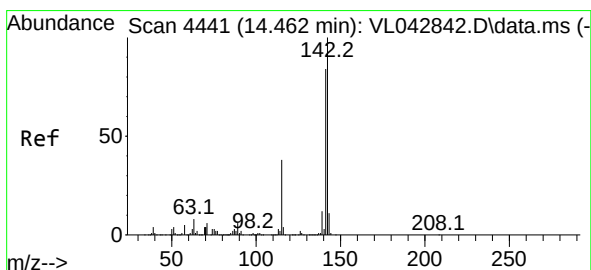
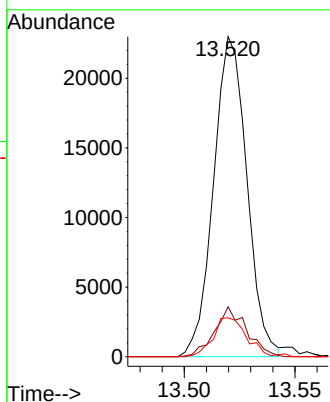
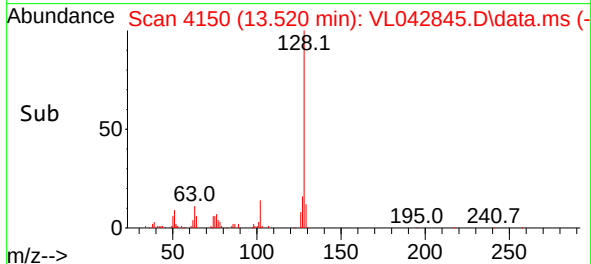
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



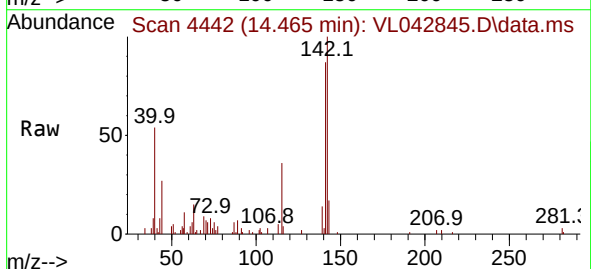
Tgt Ion:128 Resp: 24050
Ion Ratio Lower Upper
128 100
127 15.6 10.6 16.0
129 12.2 8.9 13.3

Manual Integrations
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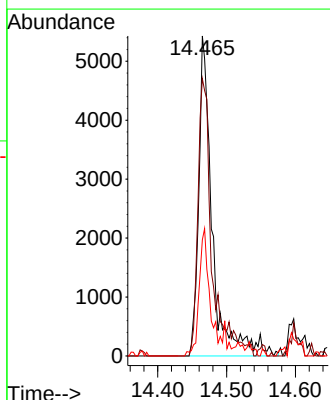
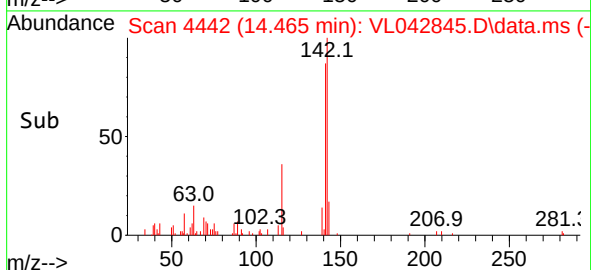
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

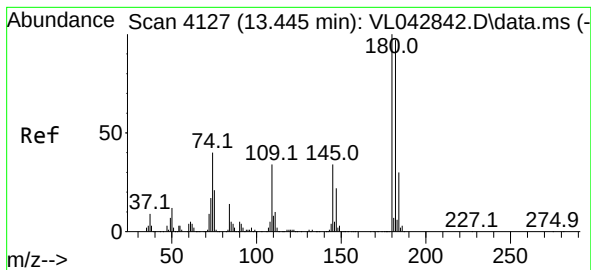


#80
Naphthalene,2-methyl-
Concen: 0.405 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



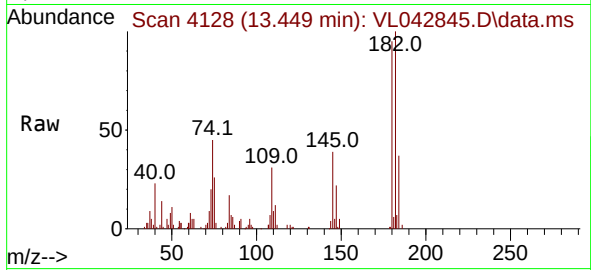
Tgt Ion:142 Resp: 7482
Ion Ratio Lower Upper
142 100
141 90.9 67.0 100.6
115 38.5 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.434 ppbv
 RT: 13.449 min Scan# 4128
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

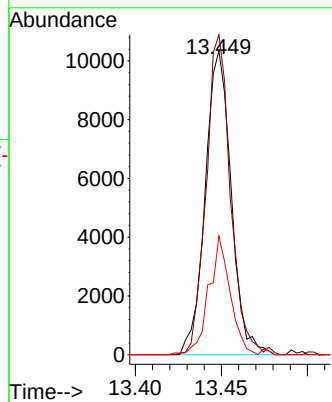
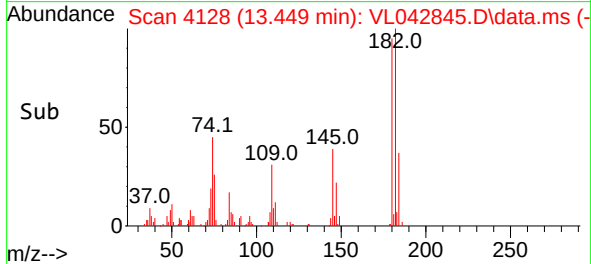
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	1084
Ion	Ratio	Lower	Upper
180	100		
182	99.1	76.9	115.3
184	32.6	24.5	36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	790	0.110	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv	
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv	
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv	
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
79) Naphthalene	13.520	128	4051m	0.083	ppbv	

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

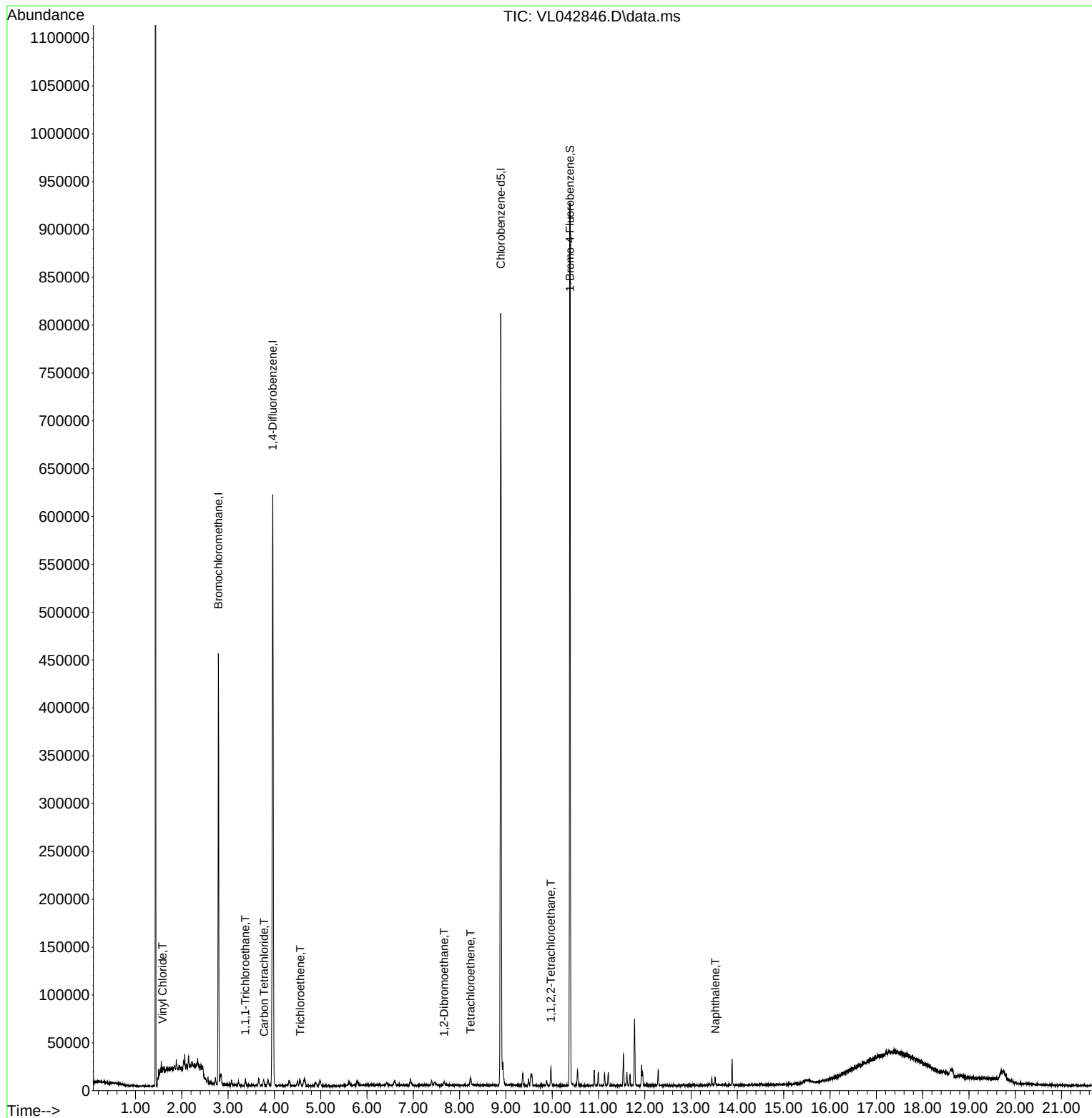
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Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

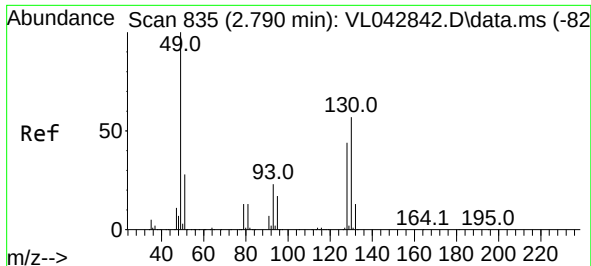
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

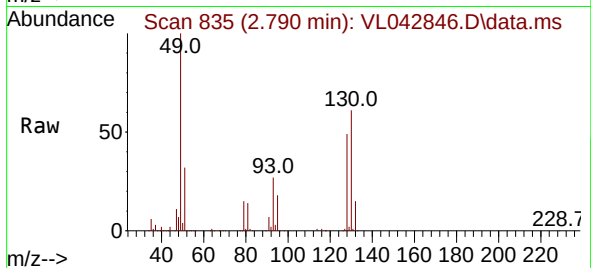
Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

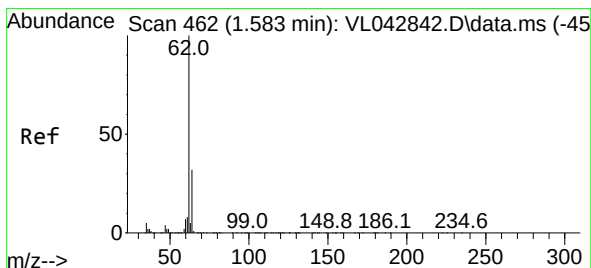
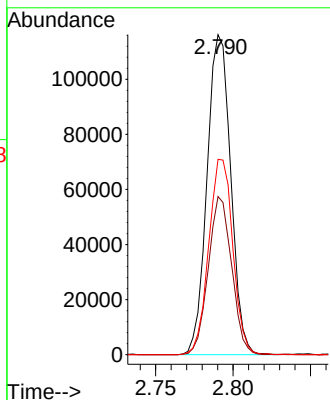
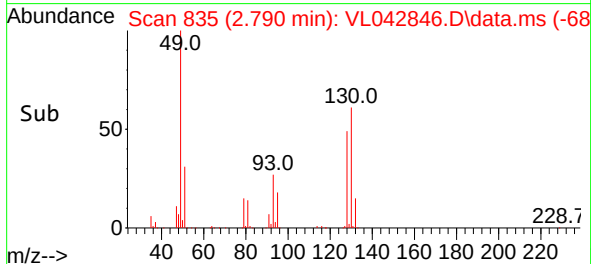
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 49 Resp: 12371
Ion Ratio Lower Upper
49 100
128 48.6 23.7 71.1
130 62.1 30.6 91.6

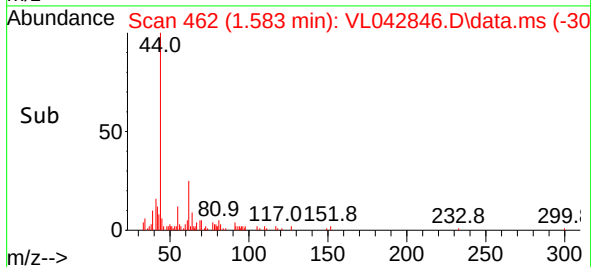
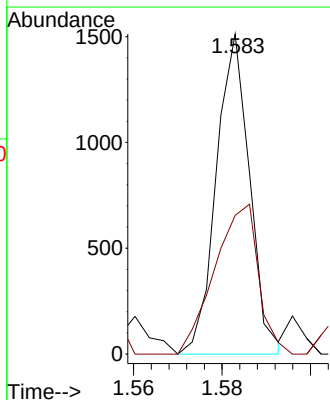
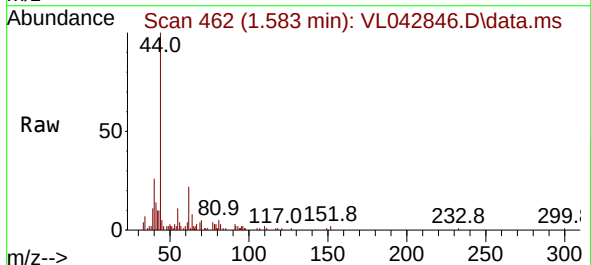
Manual Integrations
APPROVED

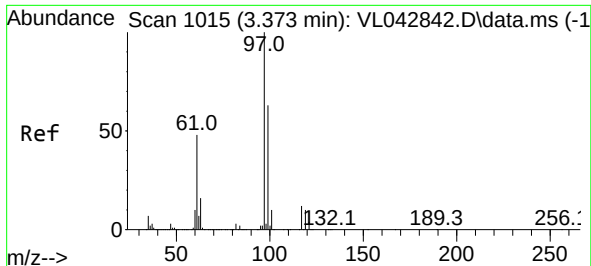
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#5
Vinyl Chloride
Concen: 0.110 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

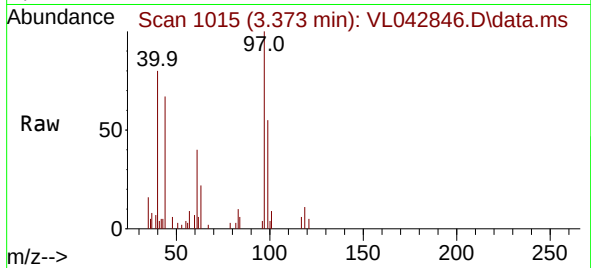
Tgt Ion: 62 Resp: 790
Ion Ratio Lower Upper
62 100
64 39.7 25.4 38.2#





#32
1,1,1-Trichloroethane
Concen: 0.113 ppbv m
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

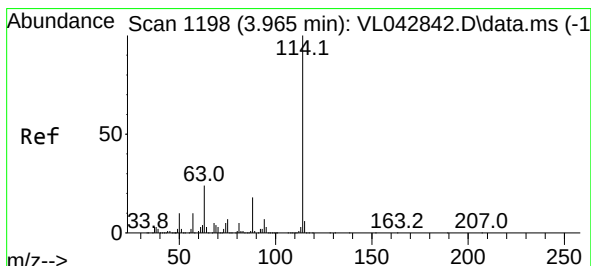
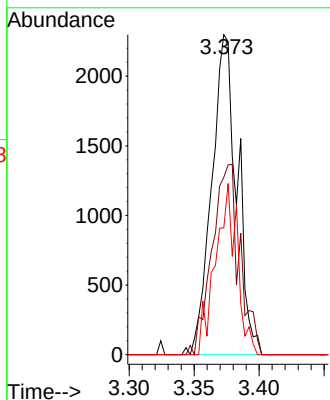
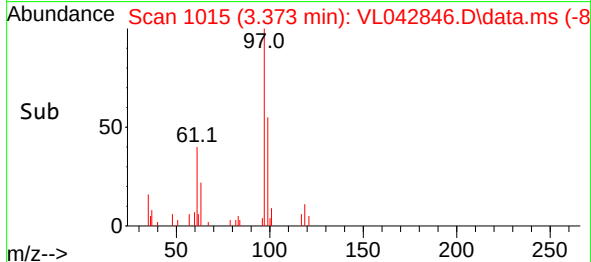
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



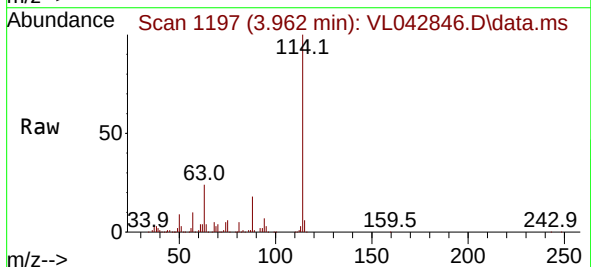
Tgt Ion: 97 Resp: 3128
Ion Ratio Lower Upper
97 100
99 64.1 51.0 76.6
61 45.6 38.0 57.0

Manual Integrations
APPROVED

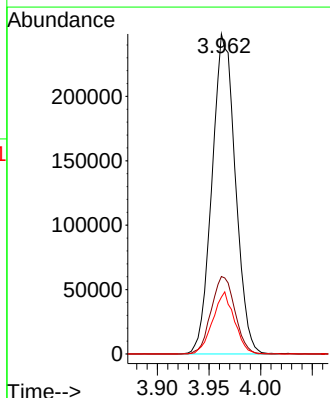
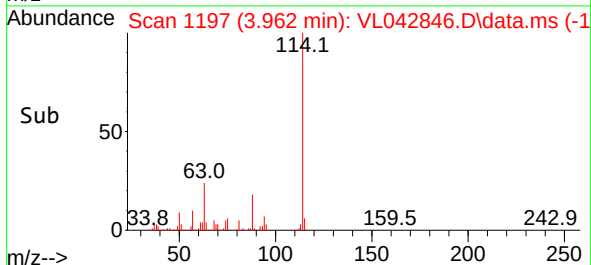
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

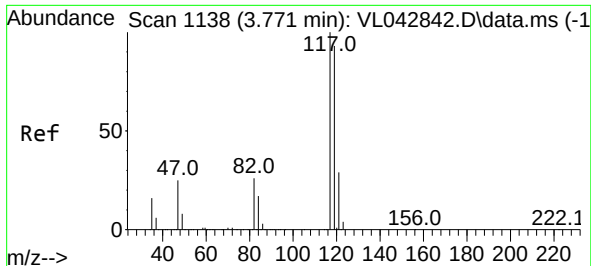


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53



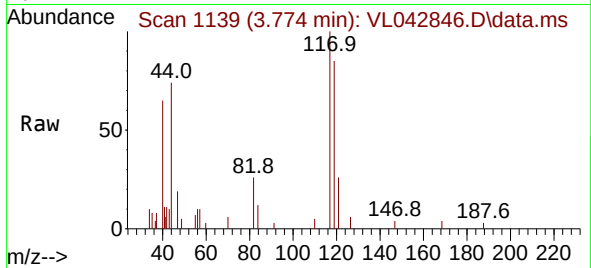
Tgt Ion:114 Resp: 390520
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 18.1 14.4 21.6





#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

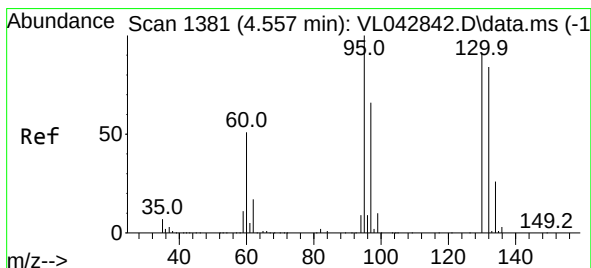
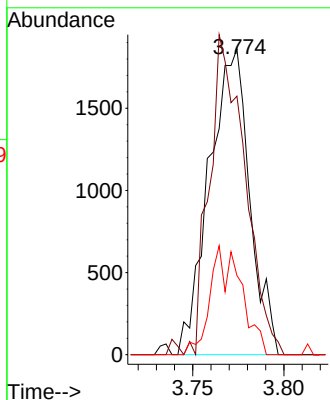
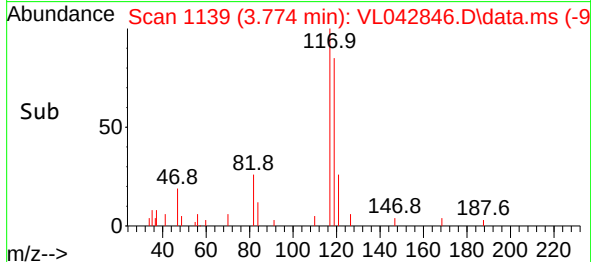
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:117 Resp: 288
Ion Ratio Lower Upper
117 100
119 81.8 74.7 112.1
121 25.9 23.2 34.8

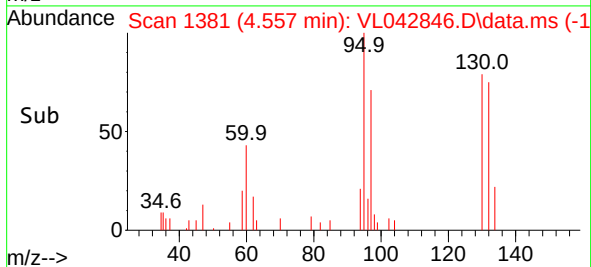
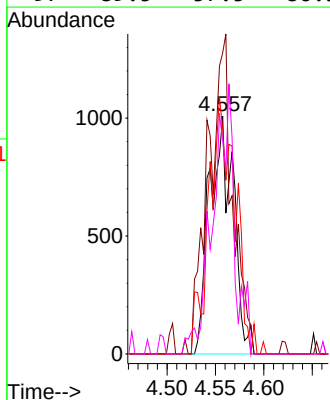
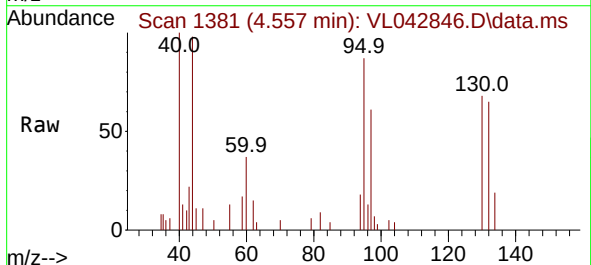
Manual Integrations
APPROVED

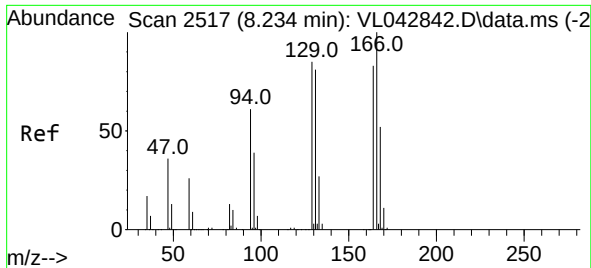
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 0.102 ppbv m
RT: 4.557 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

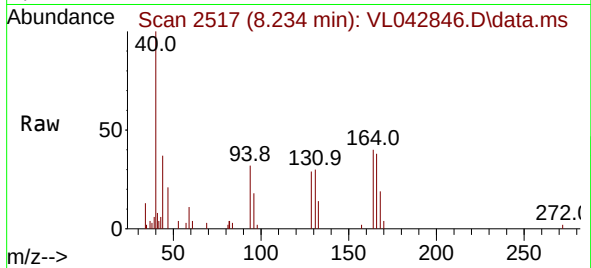
Tgt Ion:130 Resp: 1748
Ion Ratio Lower Upper
130 100
95 126.6 87.6 131.4
132 94.4 73.8 110.8
97 89.5 57.5 86.3#





#52
Tetrachloroethene
Concen: 0.109 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

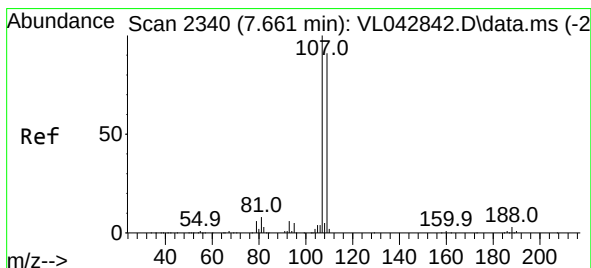
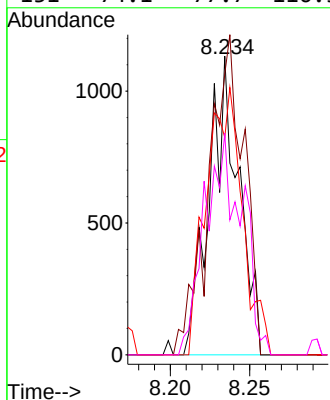
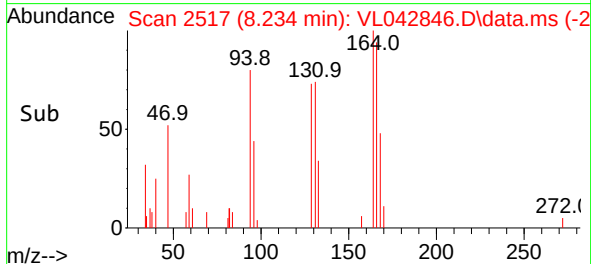
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:164 Resp: 1479
Ion Ratio Lower Upper
164 100
166 94.0 96.5 144.7
129 72.7 81.8 122.6
131 74.1 77.7 116.5

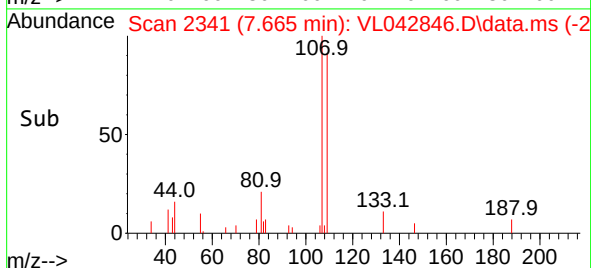
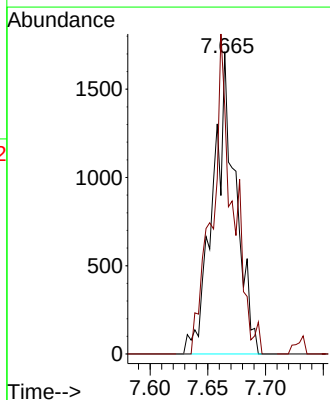
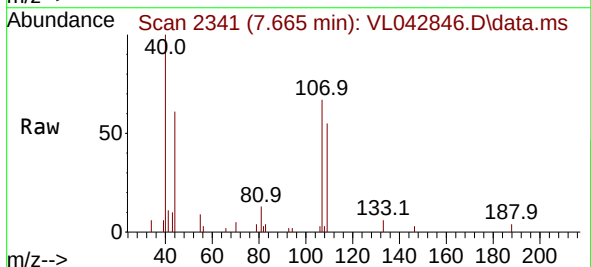
Manual Integrations
APPROVED

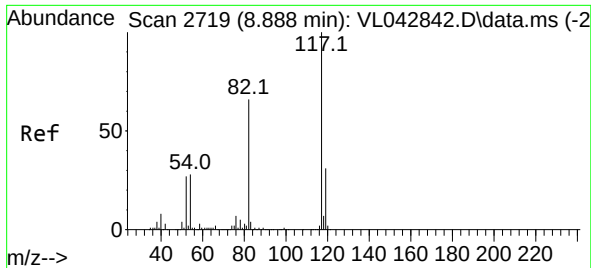
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#54
1,2-Dibromoethane
Concen: 0.111 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

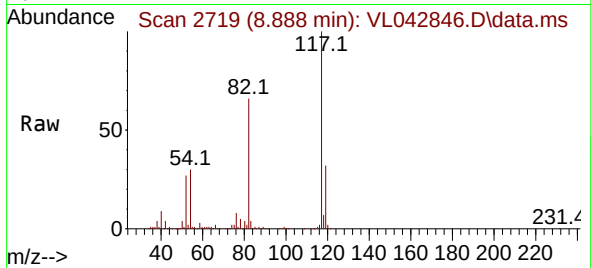
Tgt Ion:107 Resp: 2339
Ion Ratio Lower Upper
107 100
109 82.0 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

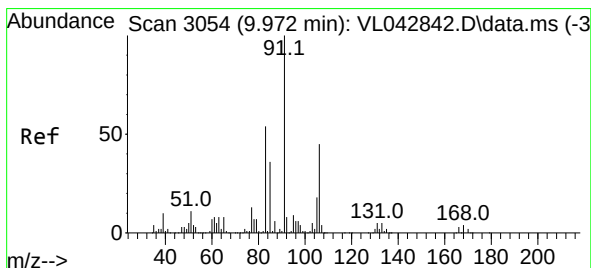
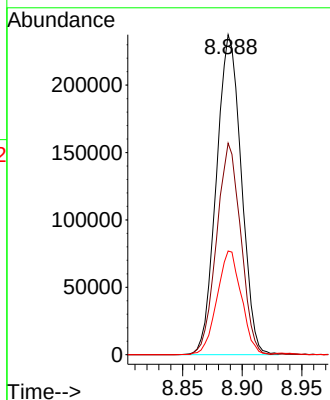
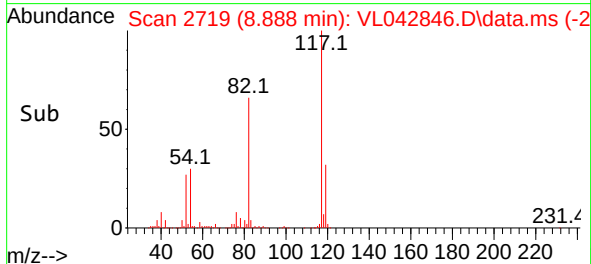
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 117 Resp: 34507
Ion Ratio Lower Upper
117 100
82 64.3 54.6 81.8
119 32.2 25.9 38.9

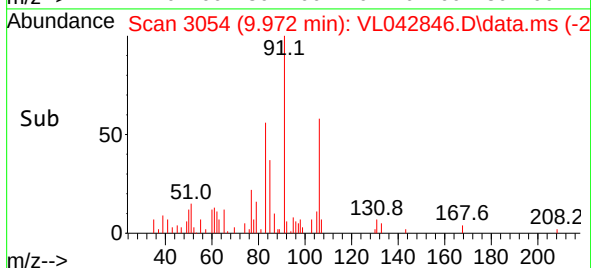
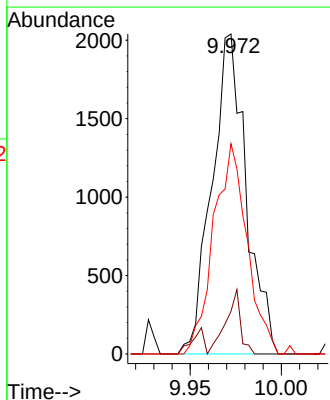
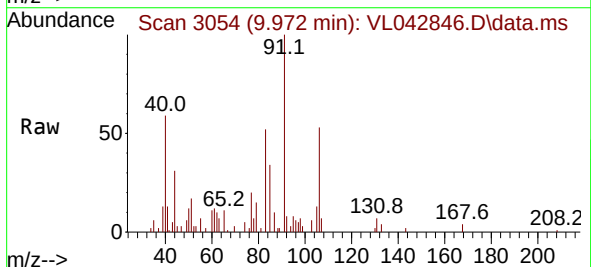
Manual Integrations
APPROVED

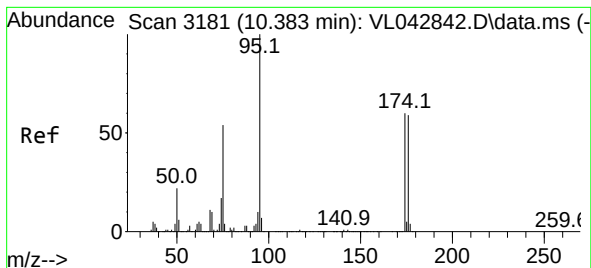
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

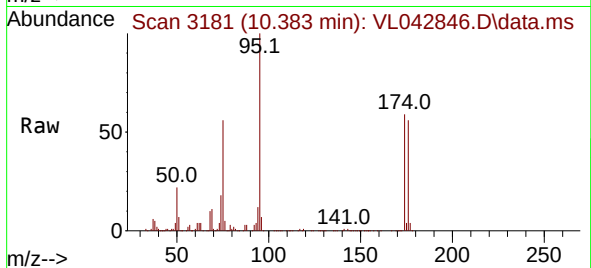
Tgt Ion: 83 Resp: 2672
Ion Ratio Lower Upper
83 100
131 11.4 4.8 14.3
85 64.3 32.3 96.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.948 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

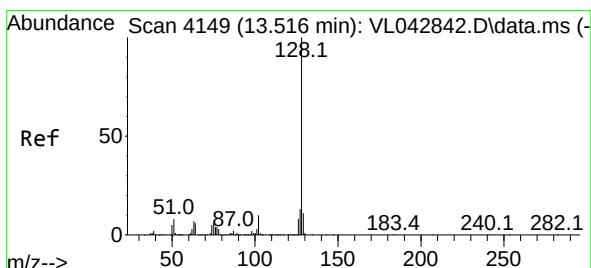
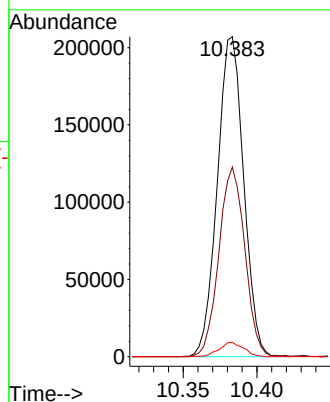
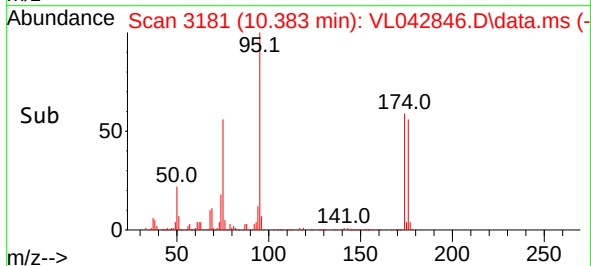
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



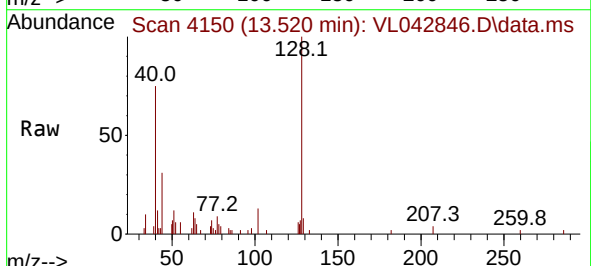
Tgt Ion: 95 Resp: 257439
Ion Ratio Lower Upper
95 100
174 58.3 48.4 72.6
175 4.2 3.8 5.8

Manual Integrations
APPROVED

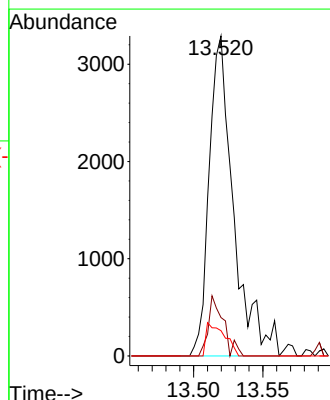
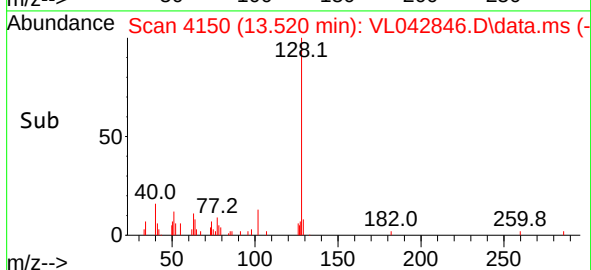
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#79
Naphthalene
Concen: 0.083 ppbv m
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53



Tgt Ion:128 Resp: 4051
Ion Ratio Lower Upper
128 100
127 6.9 10.6 16.0#
129 7.9 8.9 13.3#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
32) 1,1,1-Trichloroethane	3.379	97	901m	0.033	ppbv	
35) Carbon Tetrachloride	3.774	117	861m	0.032	ppbv	
38) Trichloroethene	4.573	130	487m	0.029	ppbv	
52) Tetrachloroethene	8.241	164	458m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	898m	0.035	ppbv	

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

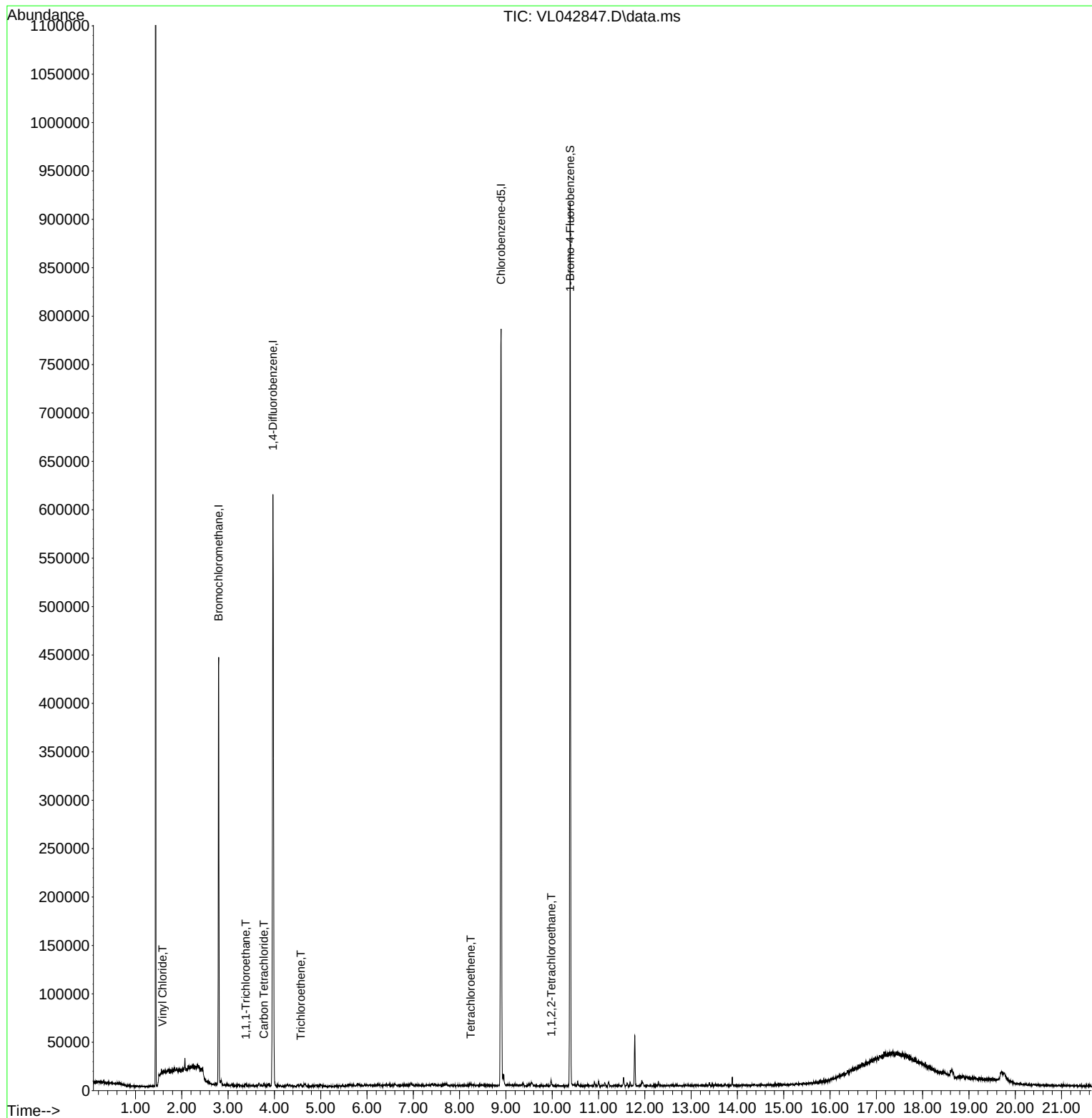
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

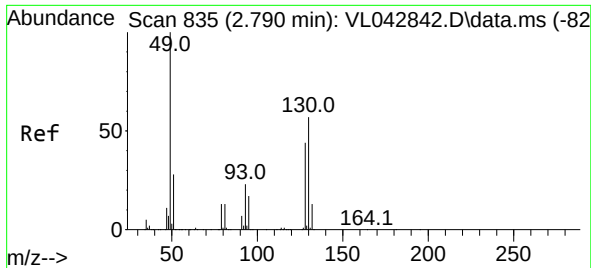
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration





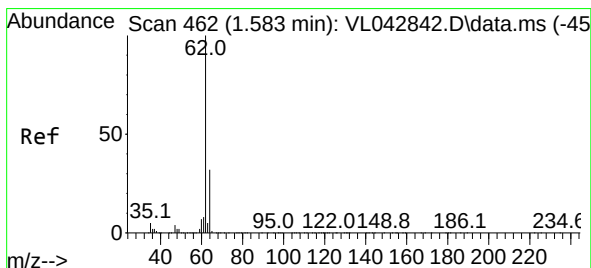
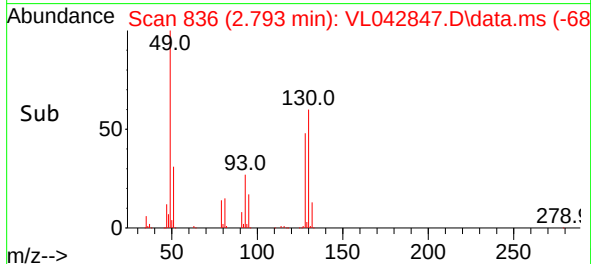
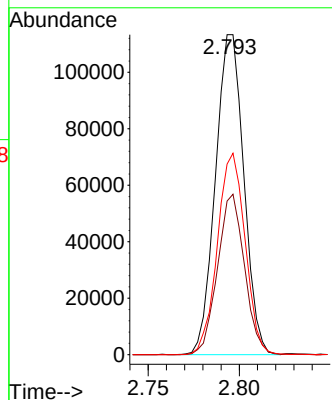
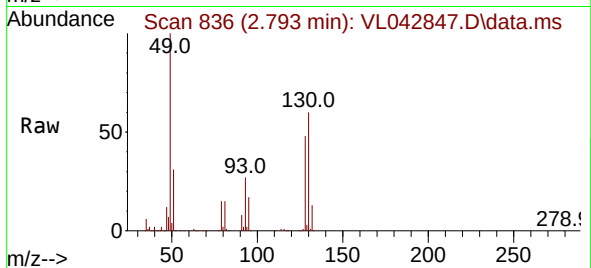
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 12270
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 61.6 30.6 91.6

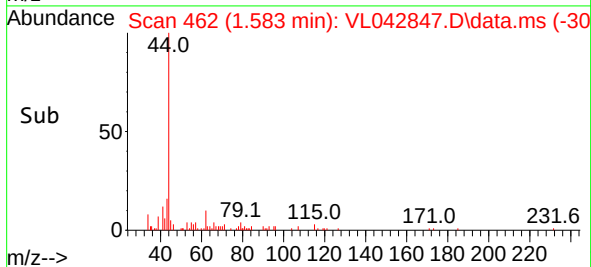
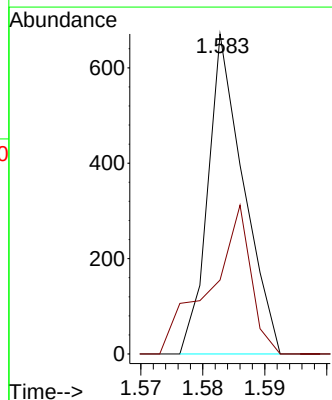
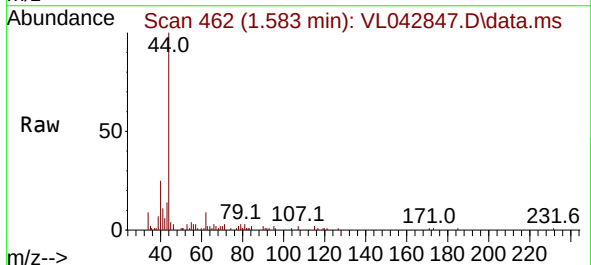
Manual Integrations
APPROVED

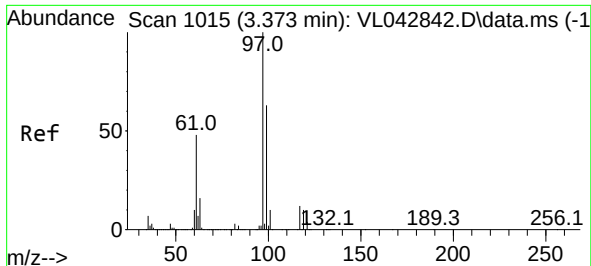
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#5
Vinyl Chloride
Concen: 0.037 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

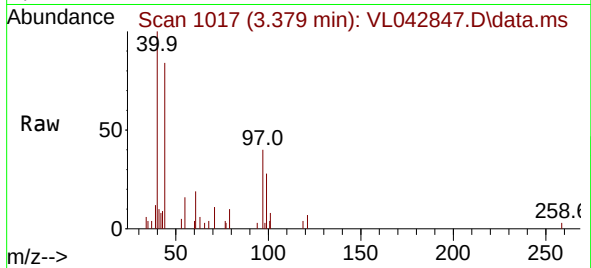
Tgt Ion: 62 Resp: 268
Ion Ratio Lower Upper
62 100
64 21.2 25.4 38.2#





#32
1,1,1-Trichloroethane
Concen: 0.033 ppbv m
RT: 3.379 min Scan# 1015
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

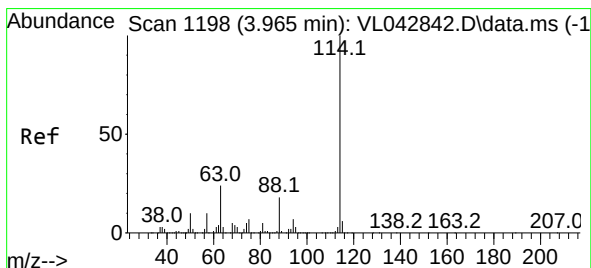
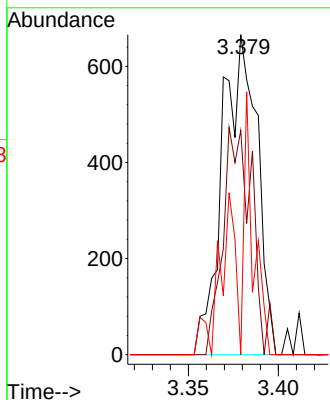
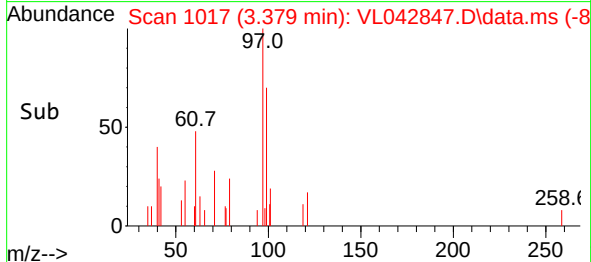
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 97 Resp: 90
Ion Ratio Lower Upper
97 100
99 0.0 51.0 76.6
61 45.2 38.0 57.0

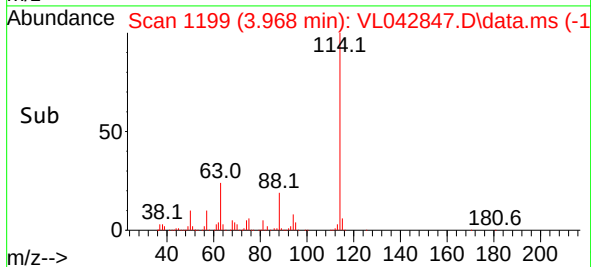
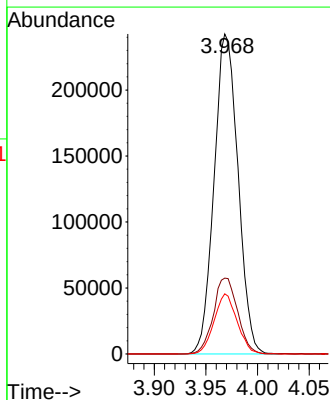
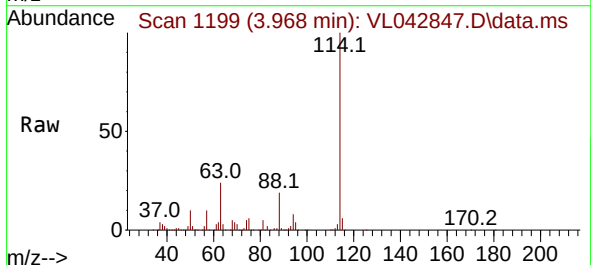
Manual Integrations
APPROVED

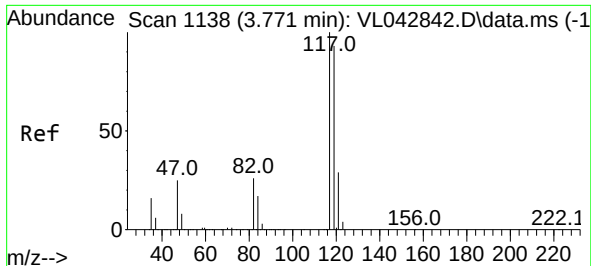
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

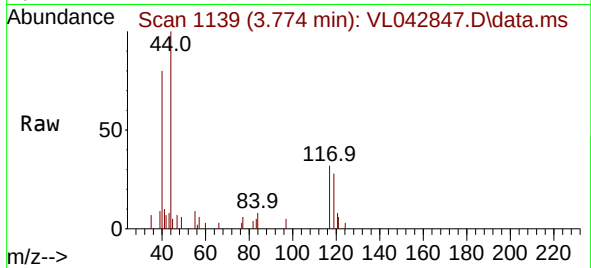
Tgt Ion:114 Resp: 390076
Ion Ratio Lower Upper
114 100
63 24.1 19.7 29.5
88 18.1 14.4 21.6





#35
Carbon Tetrachloride
Concen: 0.032 ppbv m
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

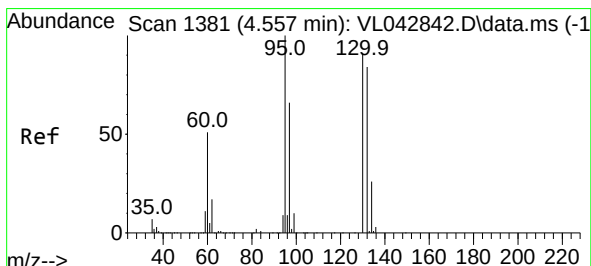
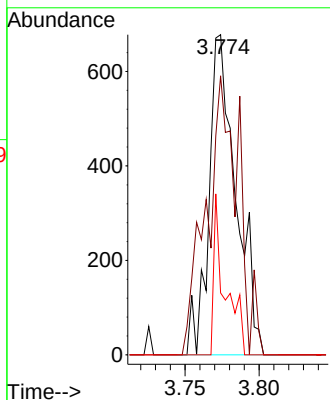
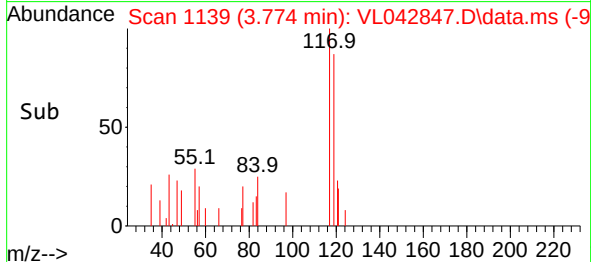
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion:117 Resp: 86
Ion Ratio Lower Upper
117 100
119 87.2 74.7 112.1
121 19.3 23.2 34.8

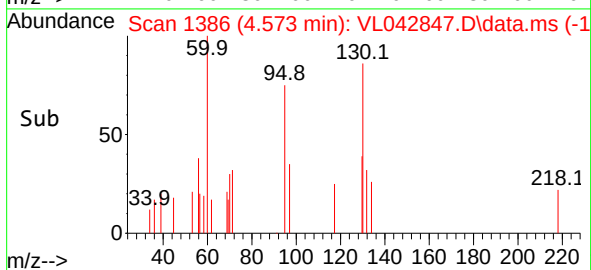
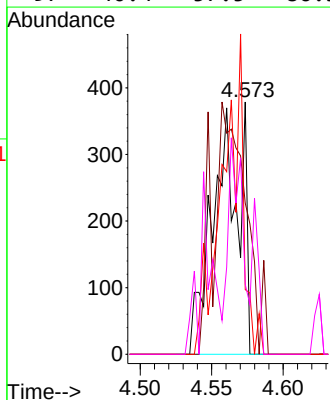
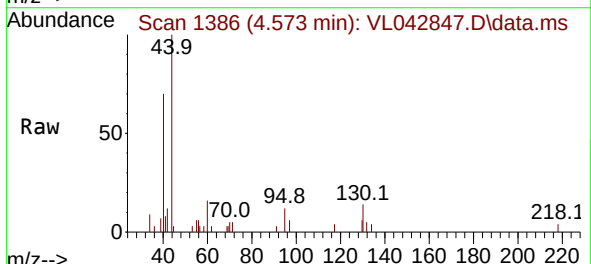
Manual Integrations
APPROVED

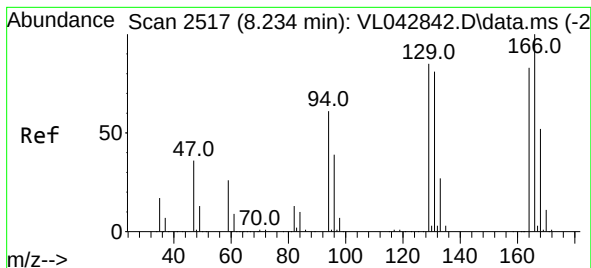
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 0.029 ppbv m
RT: 4.573 min Scan# 1386
Delta R.T. 0.016 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:130 Resp: 487
Ion Ratio Lower Upper
130 100
95 87.3 87.6 131.4#
132 37.3 73.8 110.8#
97 40.4 57.5 86.3#





#52

Tetrachloroethene

Concen: 0.034 ppbv m

RT: 8.241 min Scan# 2519

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

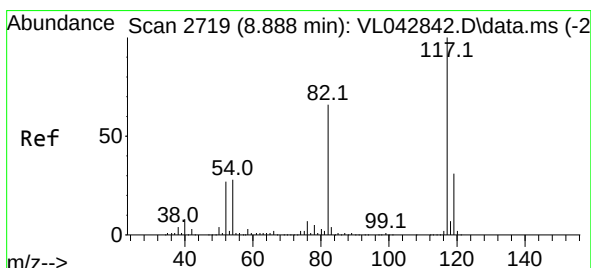
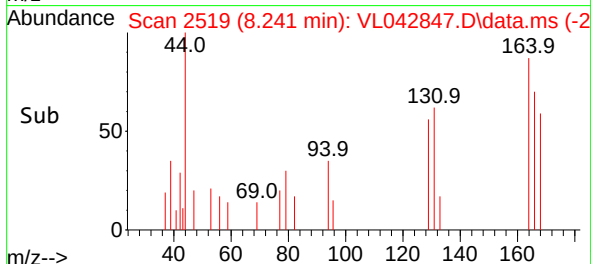
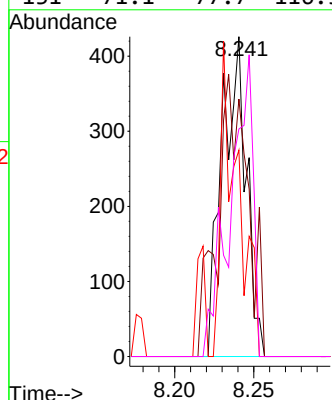
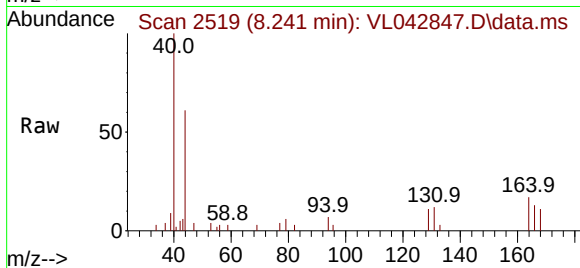
Tgt Ion:164 Resp: 458

Ion	Ratio	Lower	Upper
164	100		
166	80.5	96.5	144.7
129	64.6	81.8	122.6
131	71.1	77.7	116.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.894 min Scan# 2721

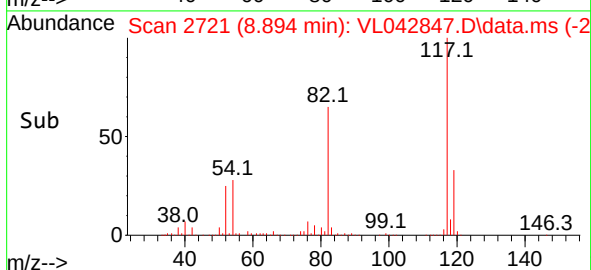
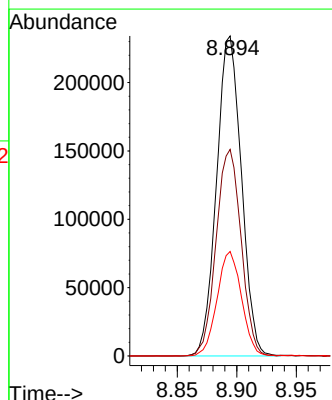
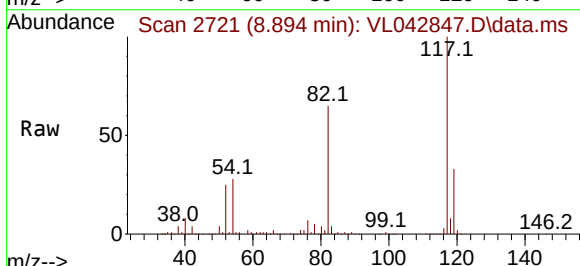
Delta R.T. 0.006 min

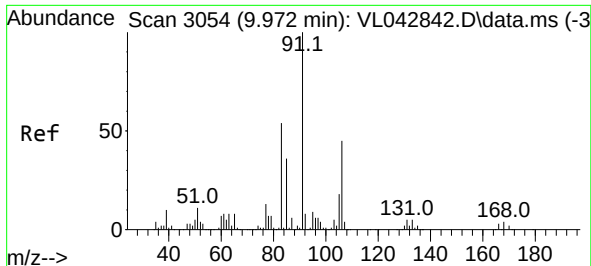
Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:117 Resp: 339700

Ion	Ratio	Lower	Upper
117	100		
82	65.1	54.6	81.8
119	32.2	25.9	38.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.035 ppbv m

RT: 9.979 min Scan# 3054

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

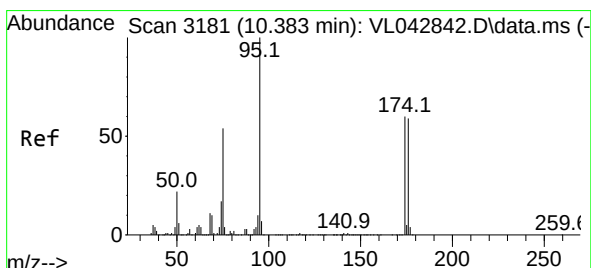
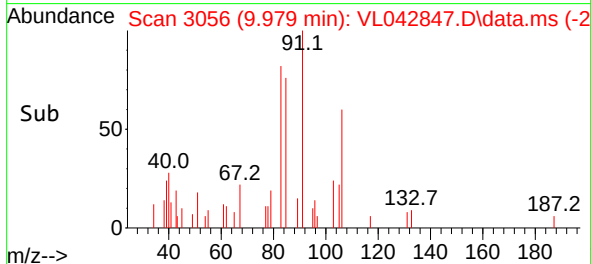
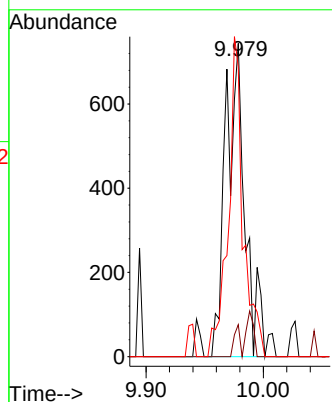
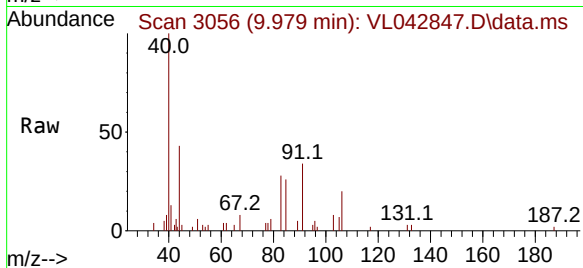
VSTDIC0.03

Tgt Ion: 83	Resp: 898
Ion Ratio	Lower Upper
83 100	
131 0.0	4.8 14.3
85 77.5	32.3 96.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.816 ppbv

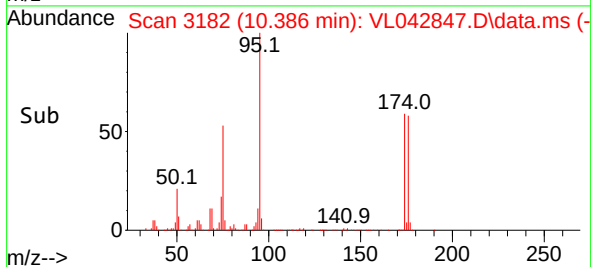
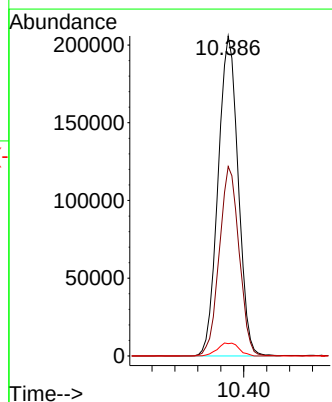
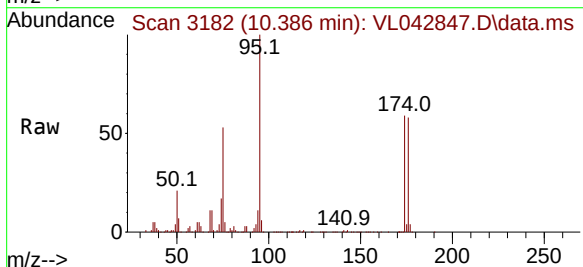
RT: 10.386 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 95	Resp: 250082
Ion Ratio	Lower Upper
95 100	
174 58.5	48.4 72.6
175 4.4	3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 254655 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

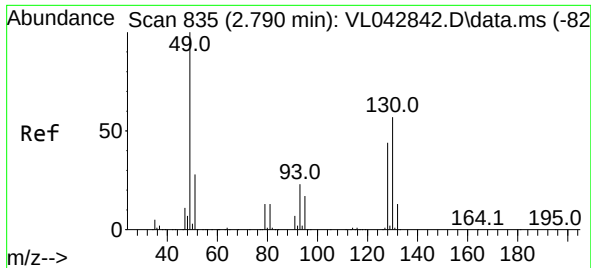
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

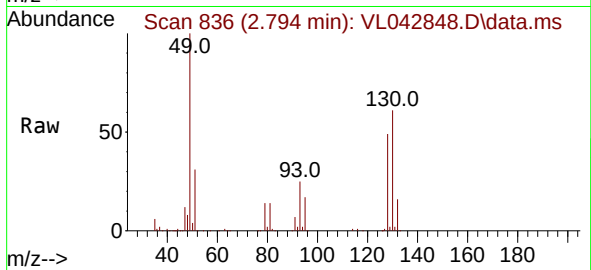
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.561	91	1294381m	27.650	ppbv	
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

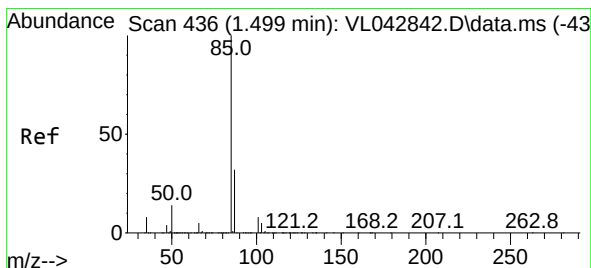
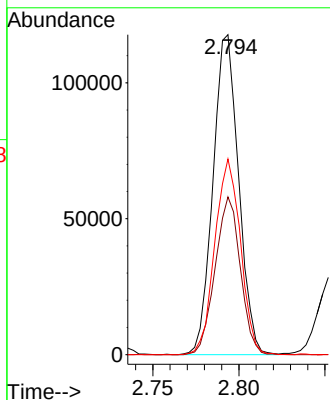
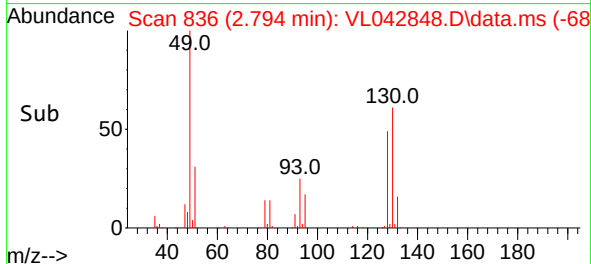
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 49 Resp: 122073
Ion Ratio Lower Upper
49 100
128 48.4 23.7 71.1
130 61.2 30.6 91.6

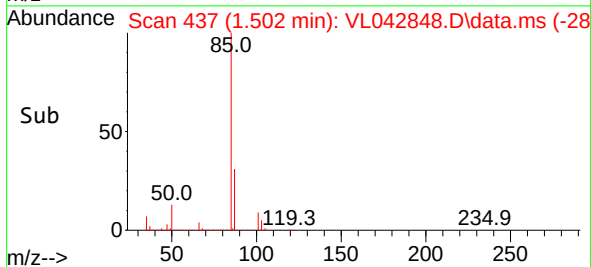
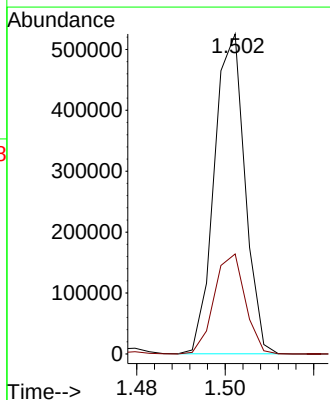
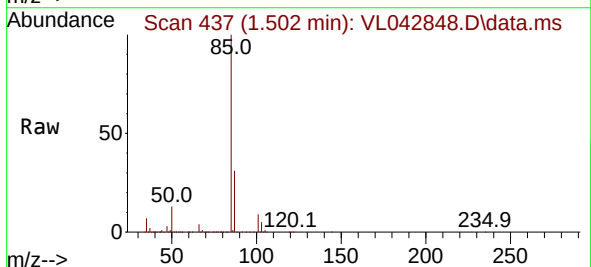
Manual Integrations
APPROVED

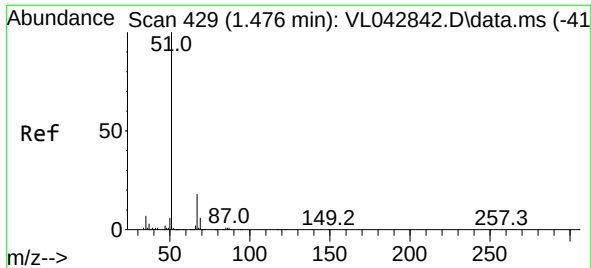
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 14.150 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151
Ion Ratio Lower Upper
85 100
87 31.2 25.3 37.9





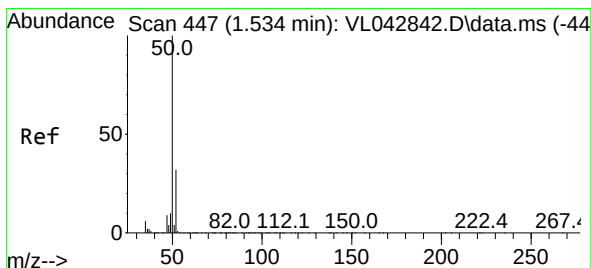
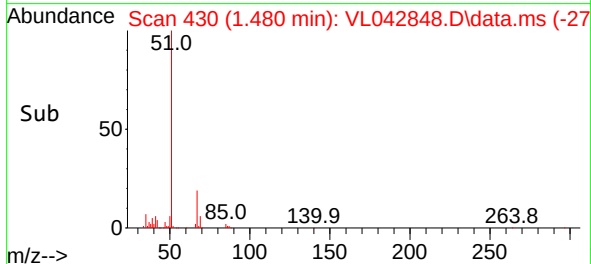
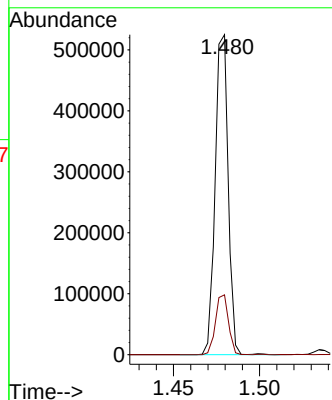
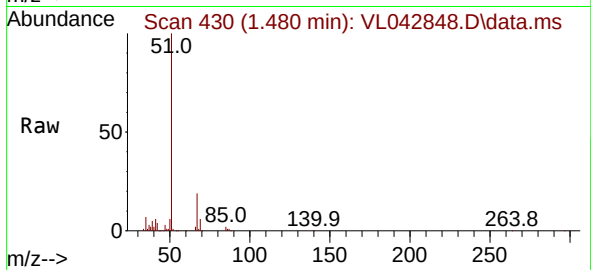
#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 275350
Ion Ratio Lower Upper
51 100
67 18.9 14.9 22.3

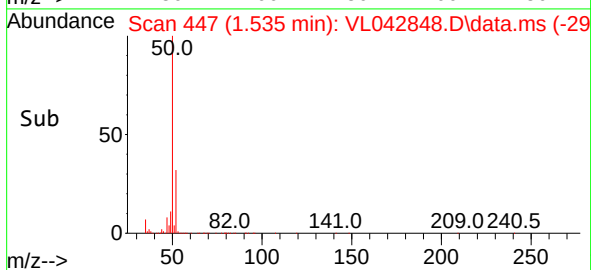
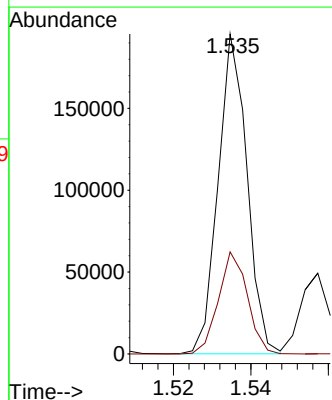
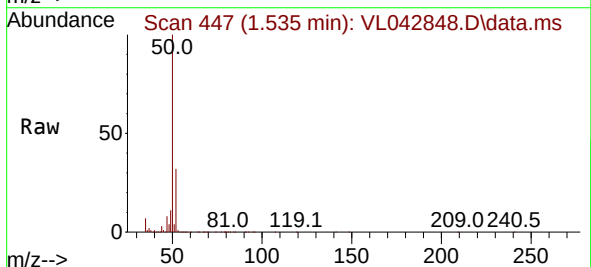
Manual Integrations
APPROVED

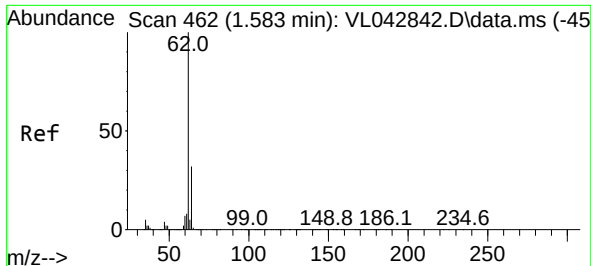
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#4
Chloromethane
Concen: 13.986 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

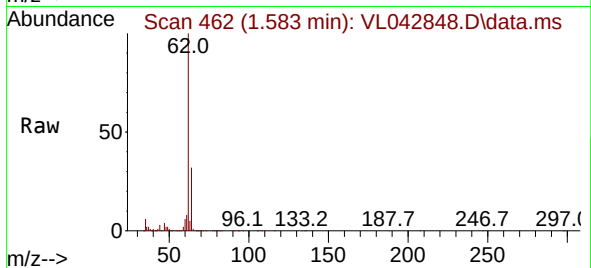
Tgt Ion: 50 Resp: 100974
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9





#5
 Vinyl Chloride
 Concen: 13.053 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

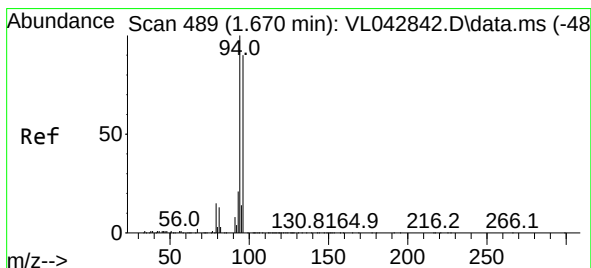
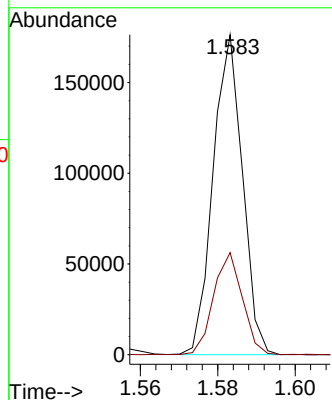
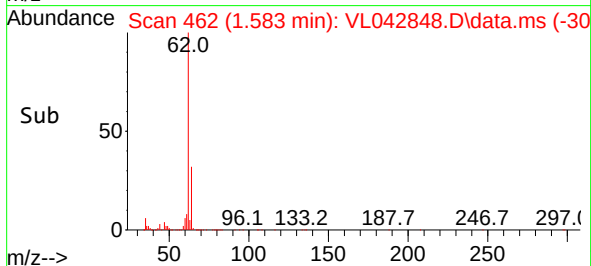
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 62 Resp: 92812
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

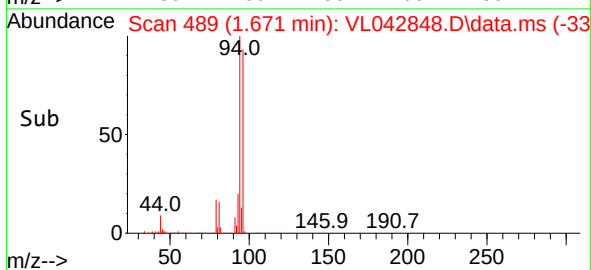
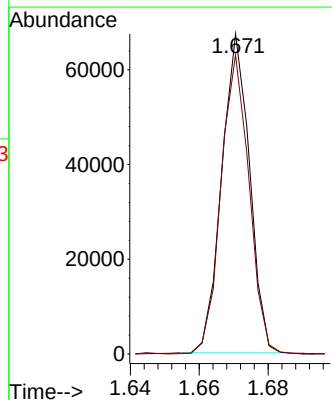
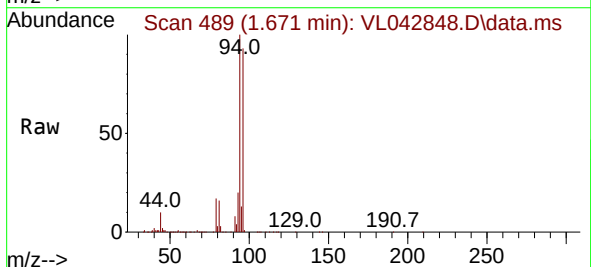
Manual Integrations
 APPROVED

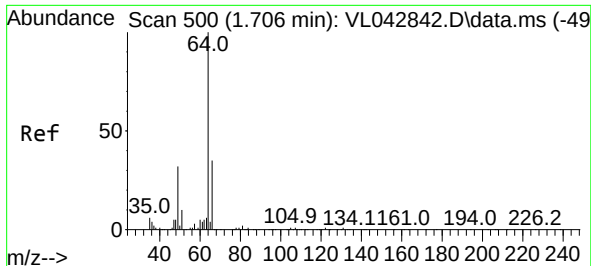
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#6
 Bromomethane
 Concen: 13.275 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

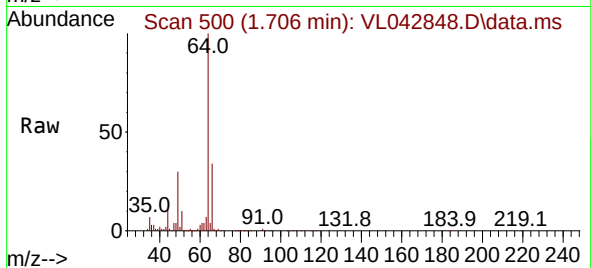
Tgt Ion: 94 Resp: 37740
 Ion Ratio Lower Upper
 94 100
 96 93.7 72.1 108.1





#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

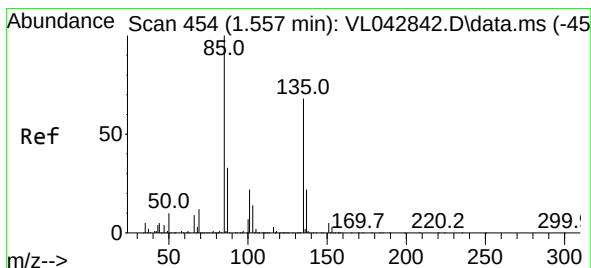
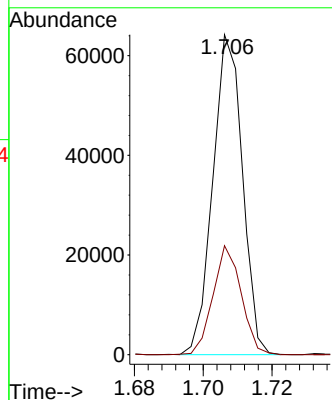
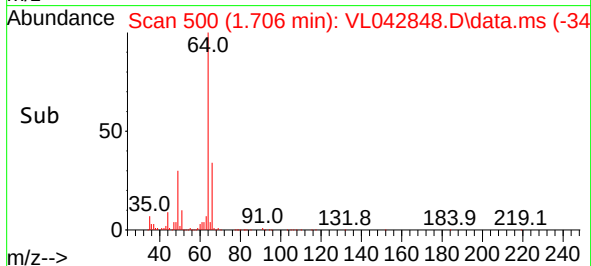
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



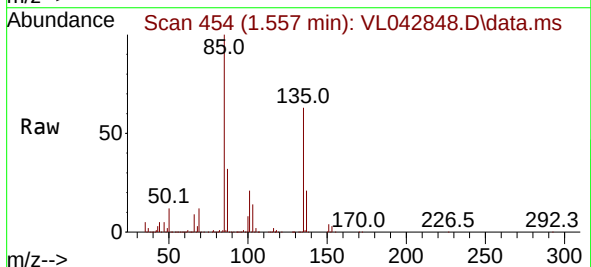
Tgt Ion: 64 Resp: 38398
Ion Ratio Lower Upper
64 100
66 34.1 28.6 42.8

Manual Integrations
APPROVED

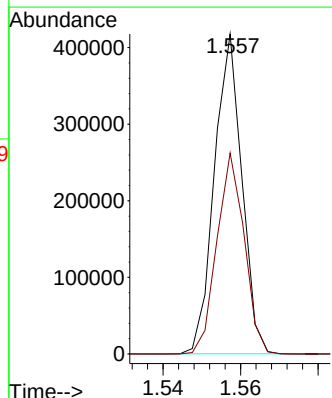
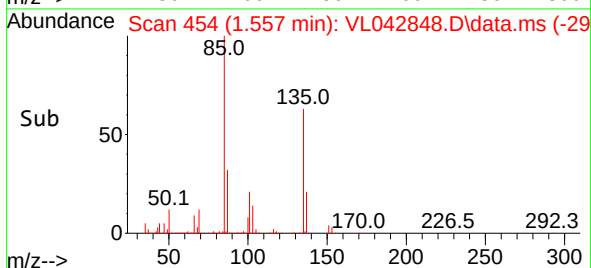
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

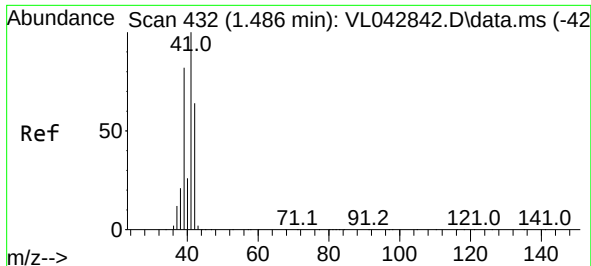


#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



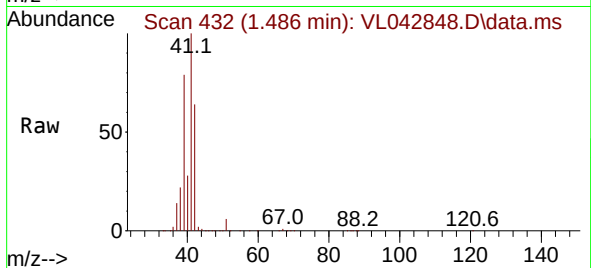
Tgt Ion: 85 Resp: 205386
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9
Propene
Concen: 13.094 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

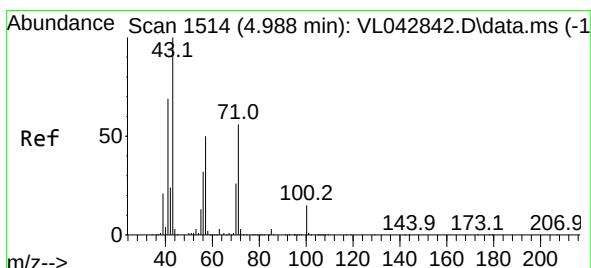
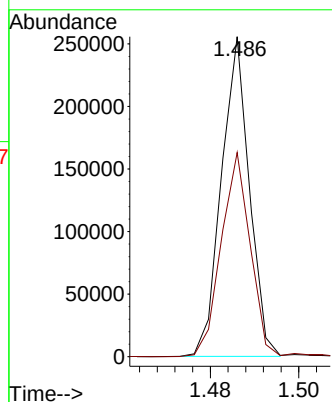
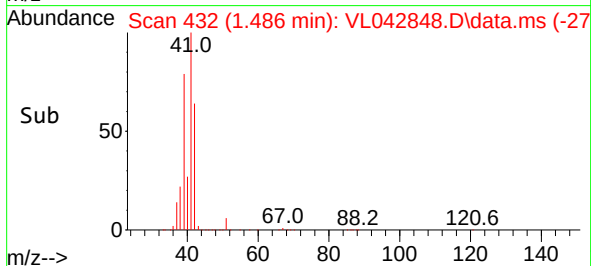
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



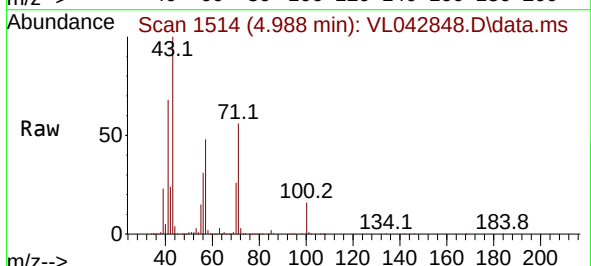
Tgt Ion: 41 Resp: 111824
Ion Ratio Lower Upper
41 100
42 67.0 53.0 79.4

Manual Integrations
APPROVED

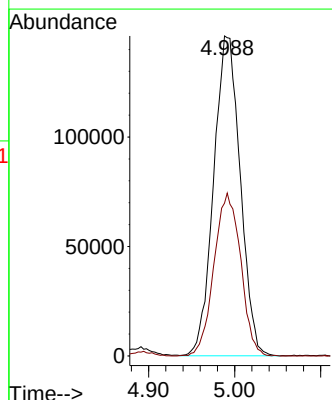
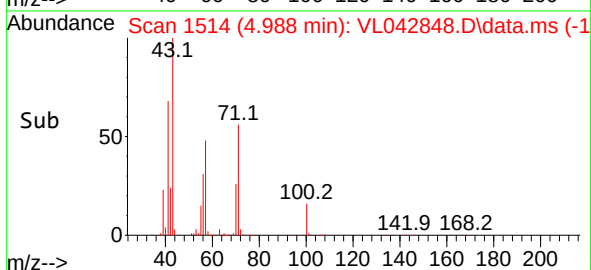
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

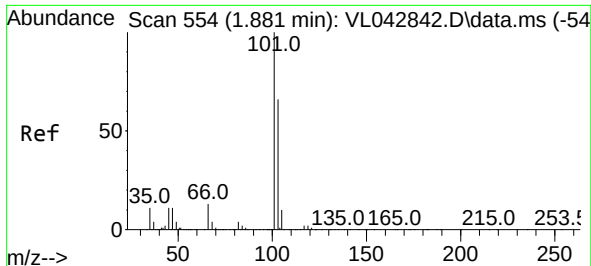


#10
Heptane
Concen: 13.742 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



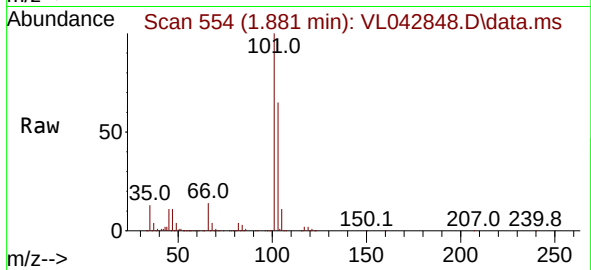
Tgt Ion: 43 Resp: 313734
Ion Ratio Lower Upper
43 100
57 51.0 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 13.957 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

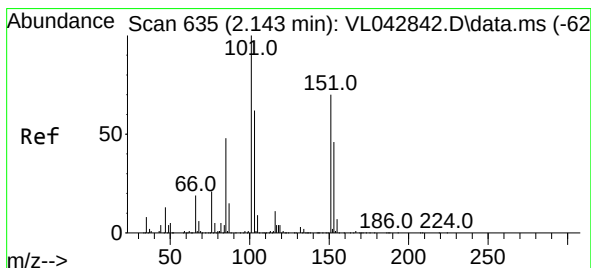
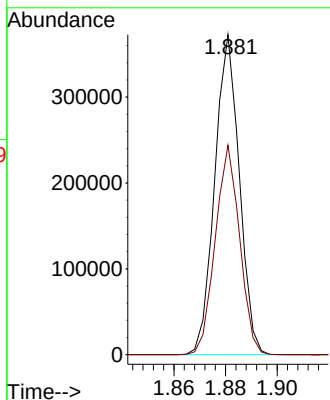
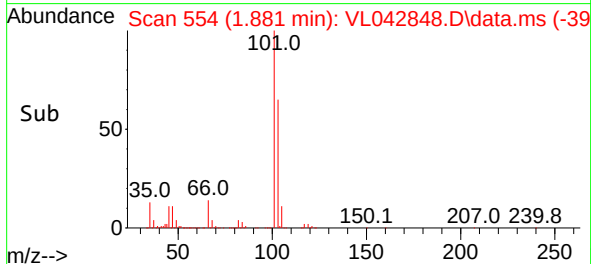
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



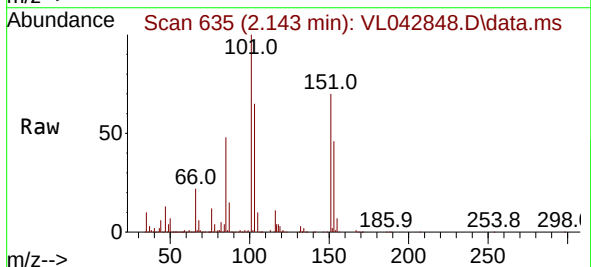
Tgt Ion:101 Resp: 246354
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.5 78.7

Manual Integrations
 APPROVED

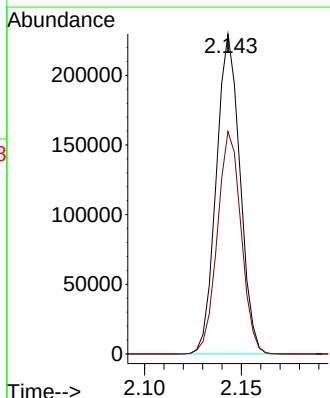
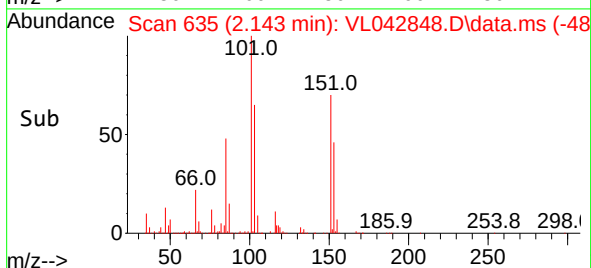
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

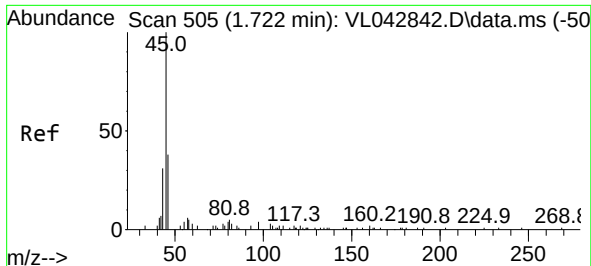


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.877 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



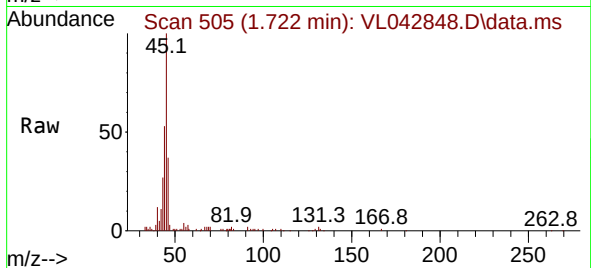
Tgt Ion:101 Resp: 195231
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6





#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

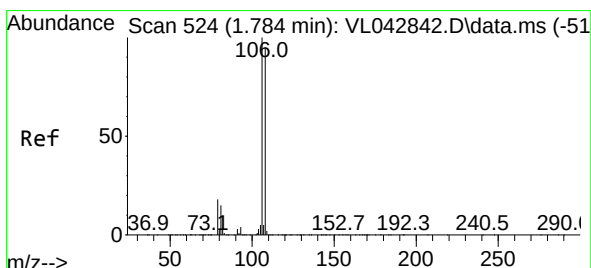
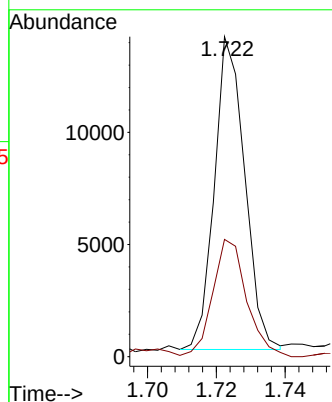
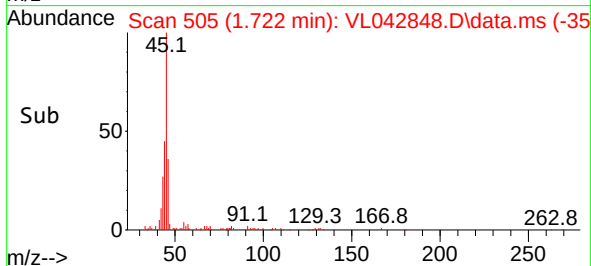
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



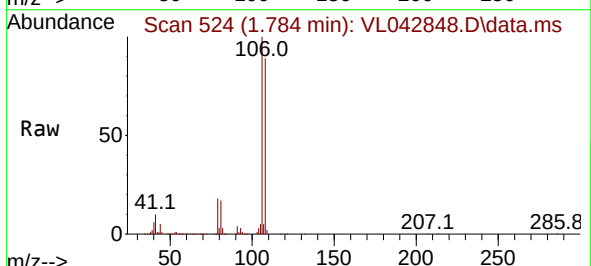
Tgt Ion: 45 Resp: 8534
Ion Ratio Lower Upper
45 100
46 42.3 17.5 69.9

Manual Integrations
APPROVED

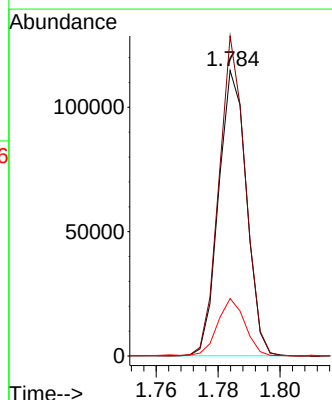
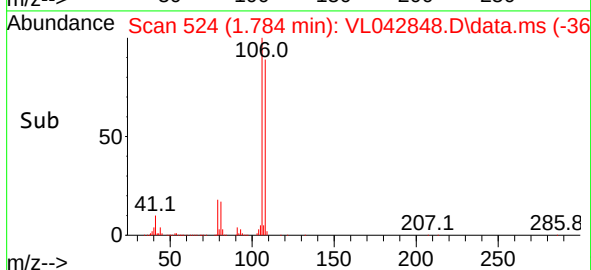
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

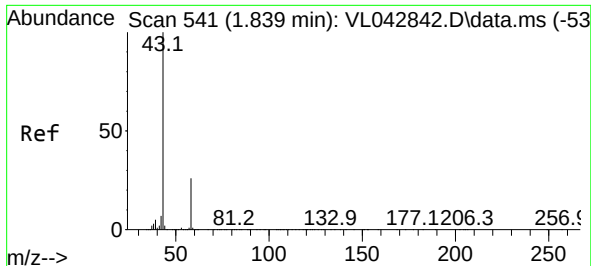


#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



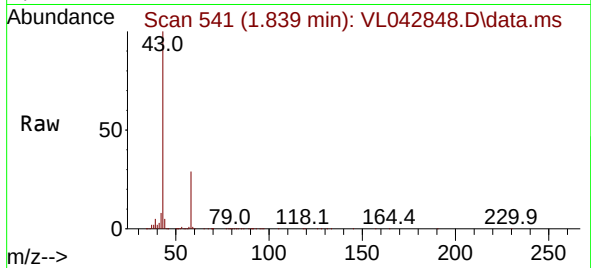
Tgt Ion:108 Resp: 71671
Ion Ratio Lower Upper
108 100
106 106.0 85.1 127.7
79 19.4 16.3 24.5





#15
Acetone
Concen: 11.402 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

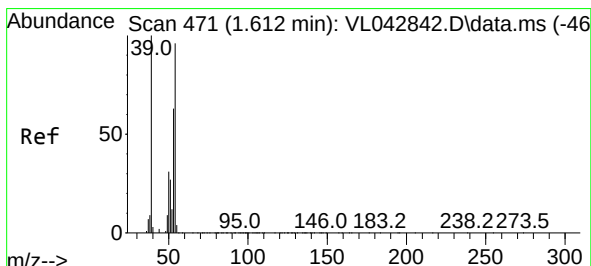
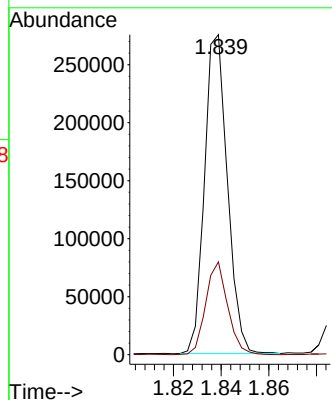
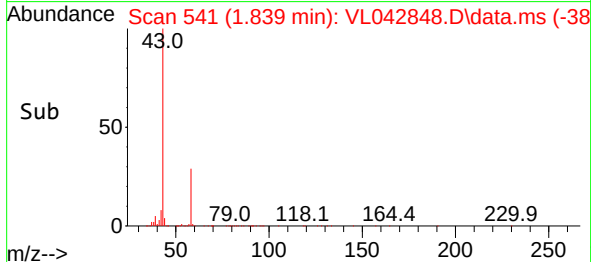
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



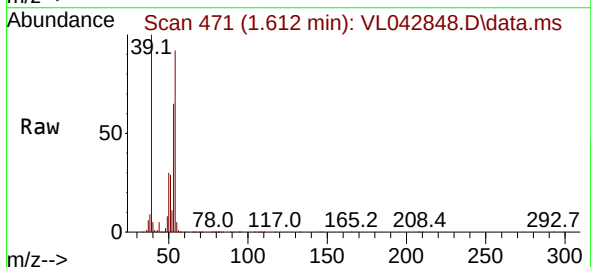
Tgt Ion: 43 Resp: 184110
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

Manual Integrations
APPROVED

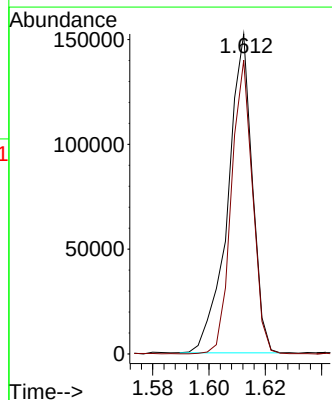
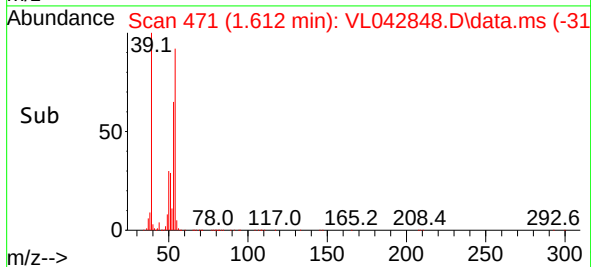
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

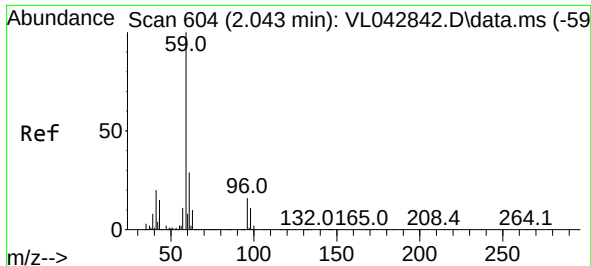


#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 39 Resp: 92068
Ion Ratio Lower Upper
39 100
54 79.7 63.6 95.4





#17
tert-Butyl alcohol
Concen: 12.765 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

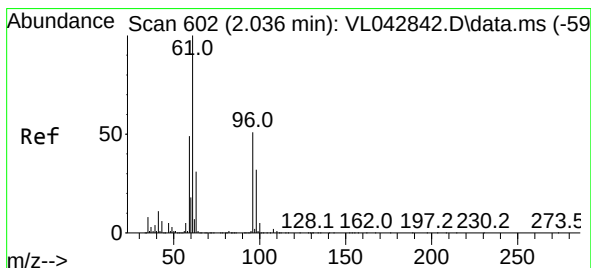
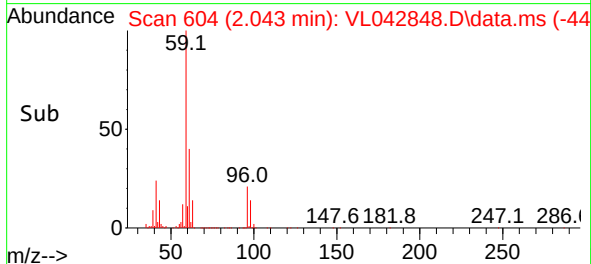
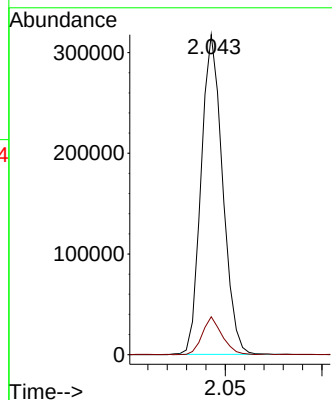
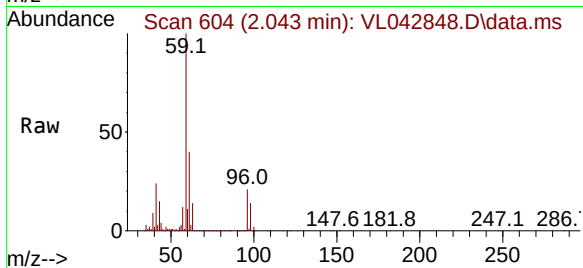
VSTDIC015

Tgt Ion: 59 Resp: 24444
Ion Ratio Lower Upper
59 100
57 11.3 9.0 13.4

Manual Integrations

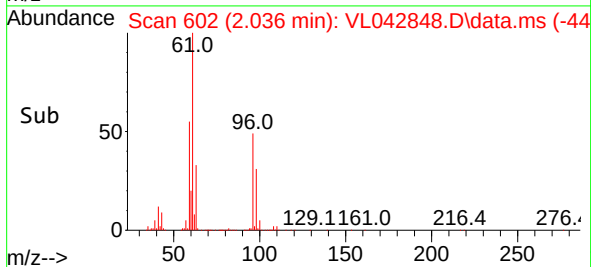
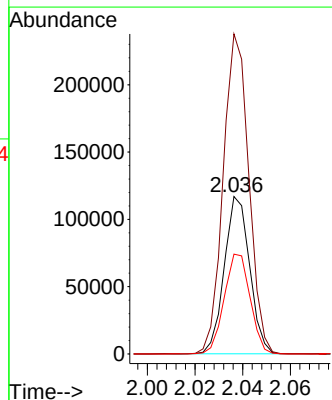
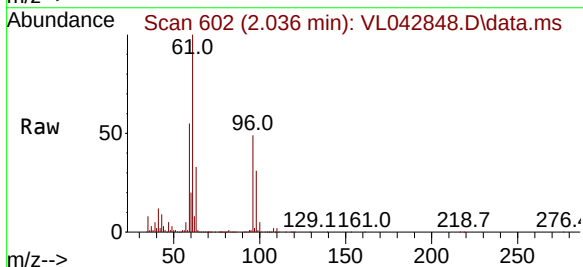
APPROVED

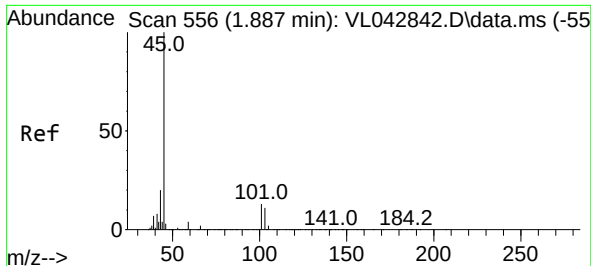
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 13.961 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 86349
Ion Ratio Lower Upper
96 100
61 203.3 158.2 237.4
98 63.3 50.6 76.0





#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

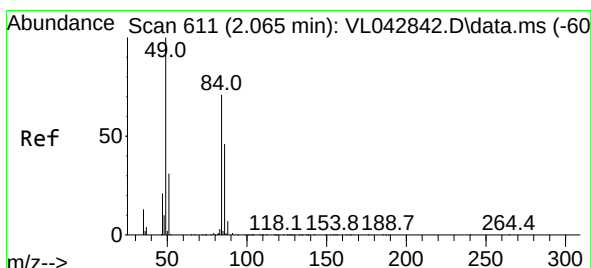
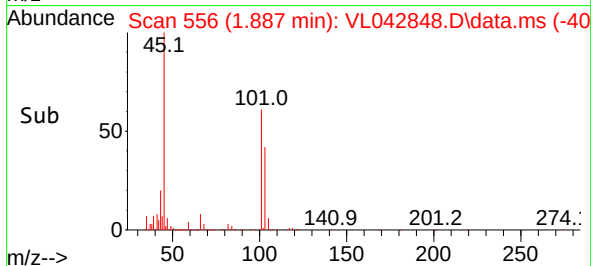
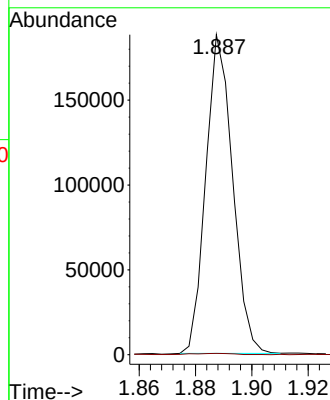
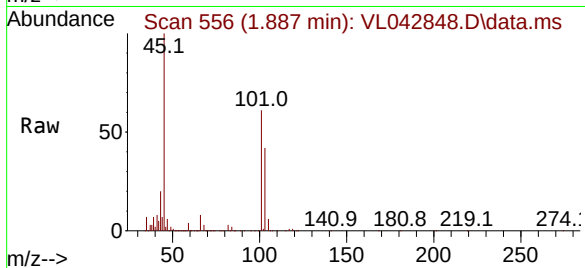
VSTDICC015

Tgt Ion: 45 Resp: 124270
Ion Ratio Lower Upper
45 100
58 41.3 32.7 49.1

Manual Integrations

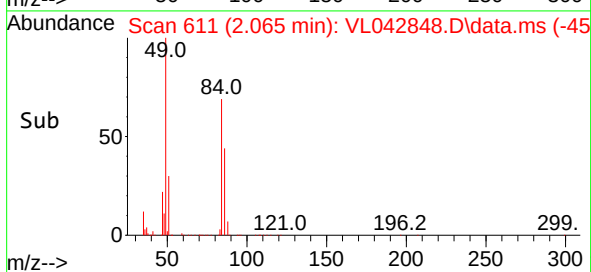
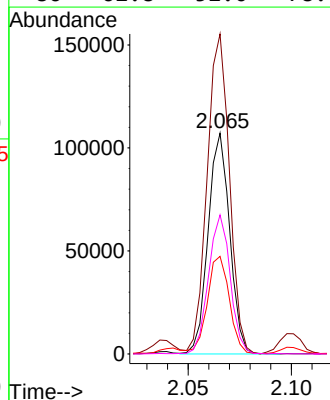
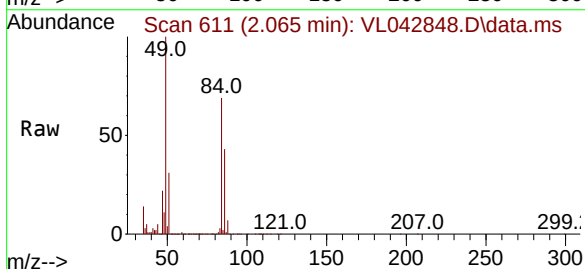
APPROVED

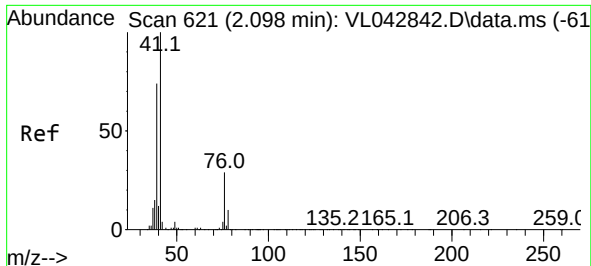
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

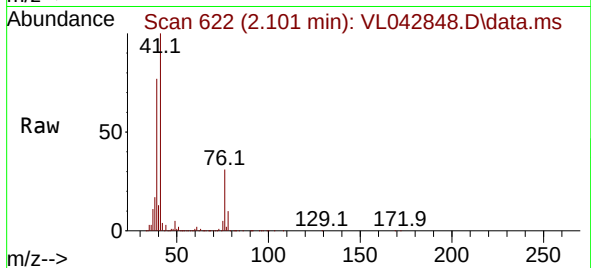
Tgt Ion: 84 Resp: 77749
Ion Ratio Lower Upper
84 100
49 143.1 112.3 168.5
51 42.5 36.0 54.0
86 62.8 52.0 78.0





#21
 Allyl Chloride
 Concen: 13.703 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

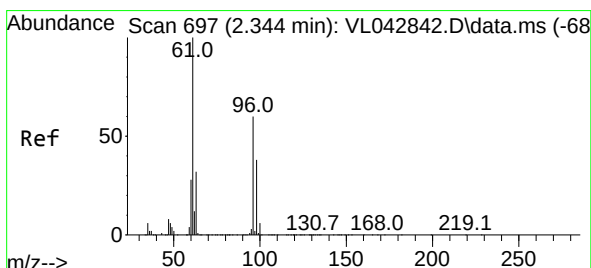
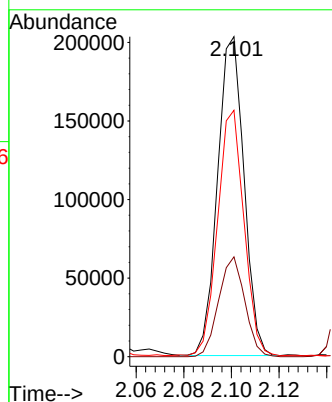
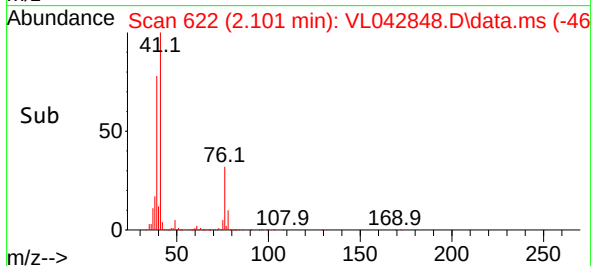
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 156318
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 76.9 57.8 86.6

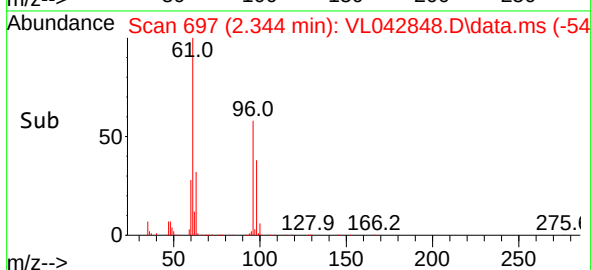
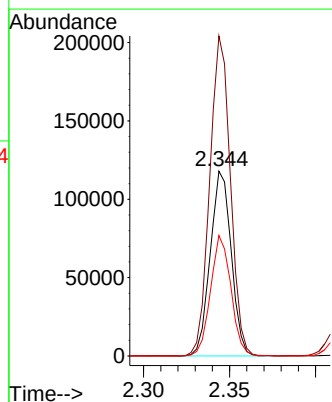
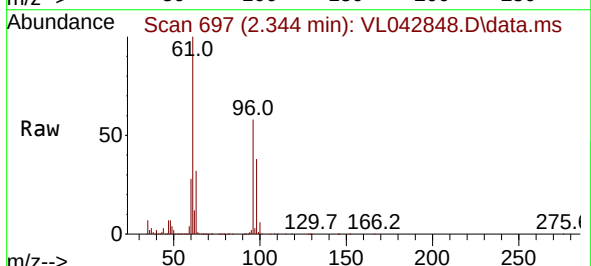
Manual Integrations
 APPROVED

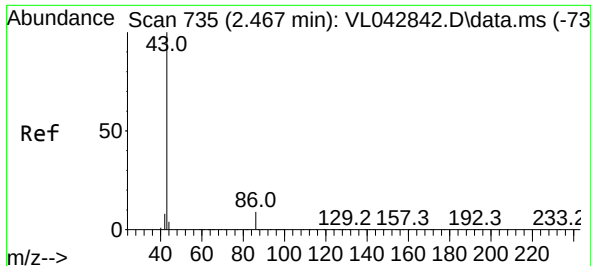
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 14.465 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 100064
 Ion Ratio Lower Upper
 96 100
 61 173.1 132.6 199.0
 98 65.2 50.0 75.0





#23
 Vinyl Acetate
 Concen: 14.557 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

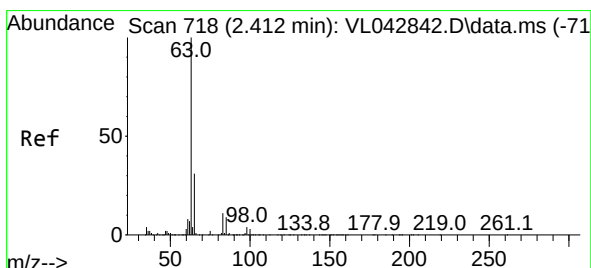
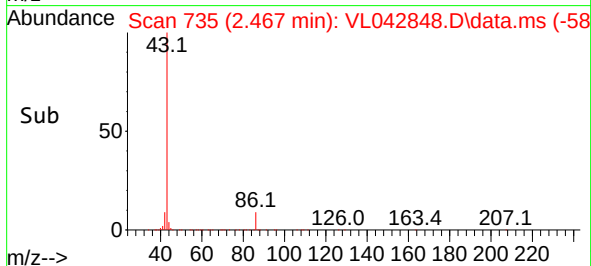
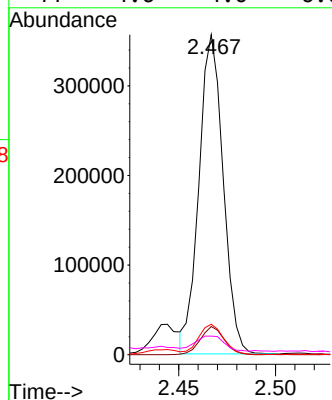
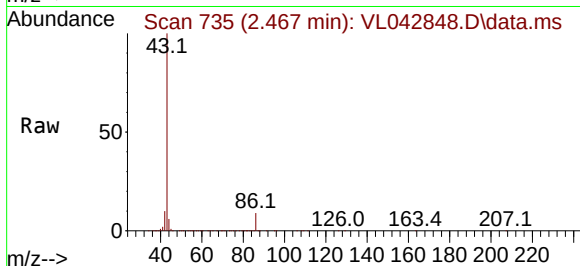
VSTDIC015

Tgt Ion: 43 Resp: 309230
 Ion Ratio Lower Upper
 43 100
 86 8.8 6.6 9.8
 42 9.4 7.0 10.6
 44 4.6 4.0 6.0

Manual Integrations

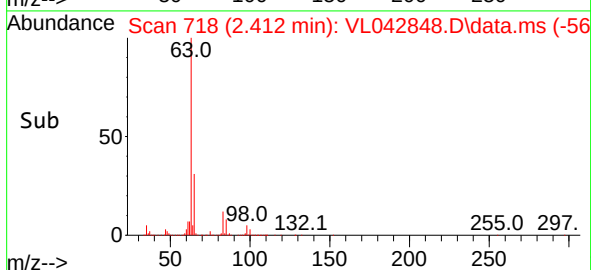
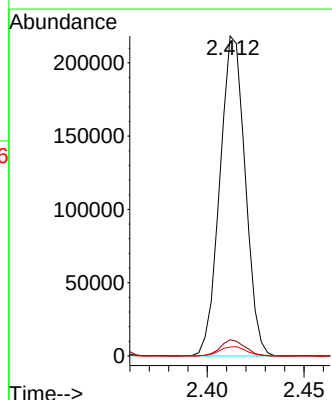
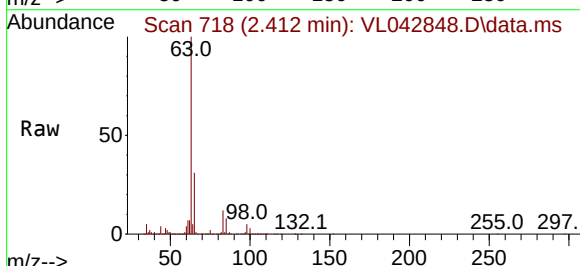
APPROVED

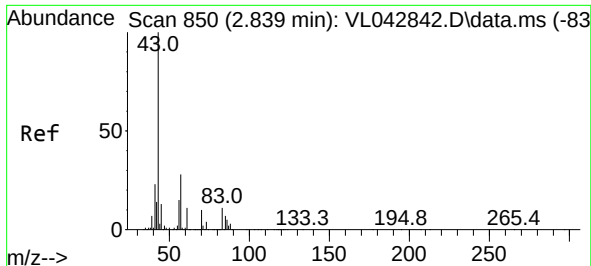
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#24
 1,1-Dichloroethane
 Concen: 13.944 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 63 Resp: 199276
 Ion Ratio Lower Upper
 63 100
 98 5.1 2.1 6.5
 100 2.8 1.7 5.1





#25

Ethyl Acetate

Concen: 13.653 ppbv

RT: 2.839 min Scan# 847

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 43 Resp: 533600

Ion Ratio Lower Upper

43 100

45 10.0 8.1 12.1

61 9.2 7.4 11.2

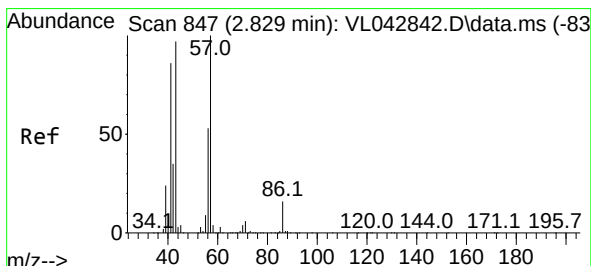
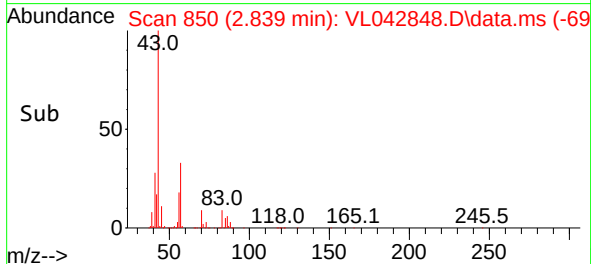
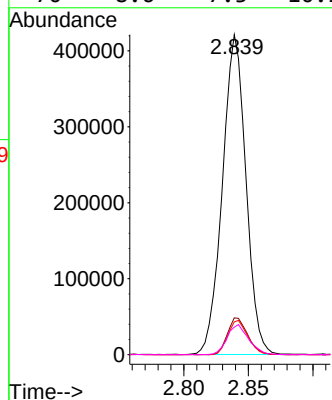
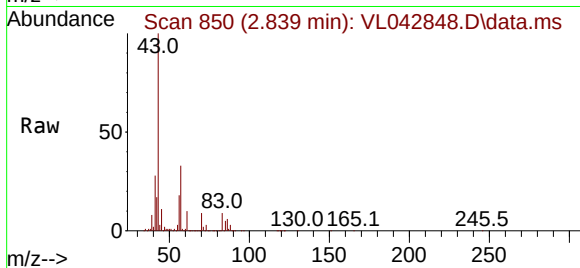
70 8.6 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#26

Hexane

Concen: 13.869 ppbv

RT: 2.833 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 57 Resp: 250189

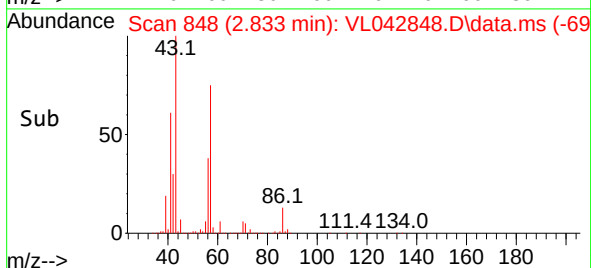
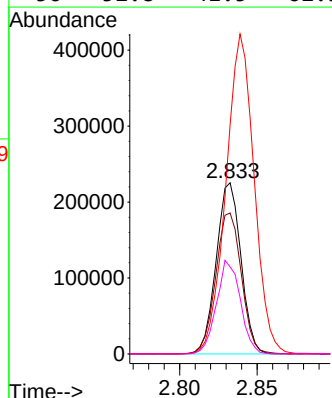
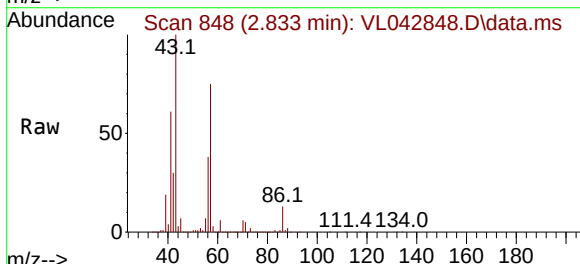
Ion Ratio Lower Upper

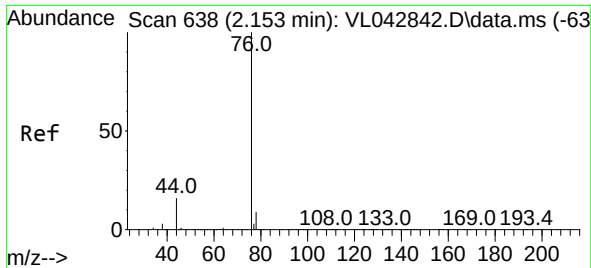
57 100

41 85.8 68.6 103.0

43 214.3 168.5 252.7

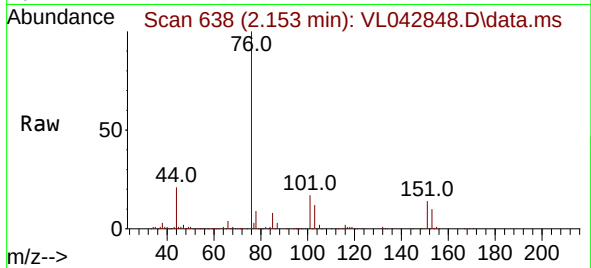
56 52.8 41.5 62.3





#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 613
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

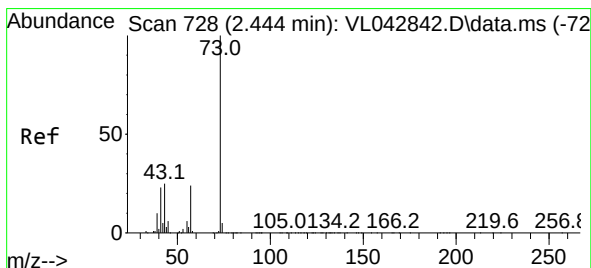
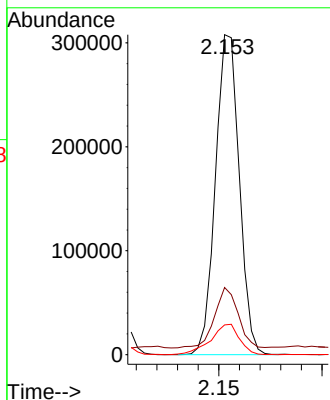
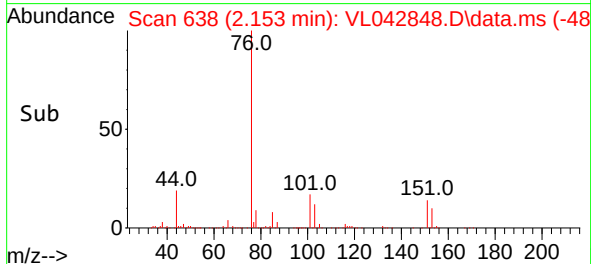
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



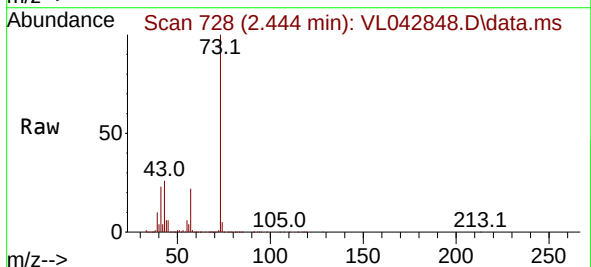
Tgt Ion: 76 Resp: 246868
Ion Ratio Lower Upper
76 100
44 19.7 15.9 23.9
78 11.4 9.5 14.3

Manual Integrations
APPROVED

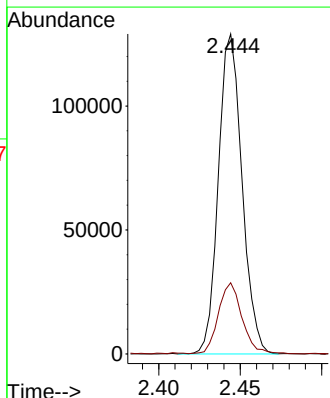
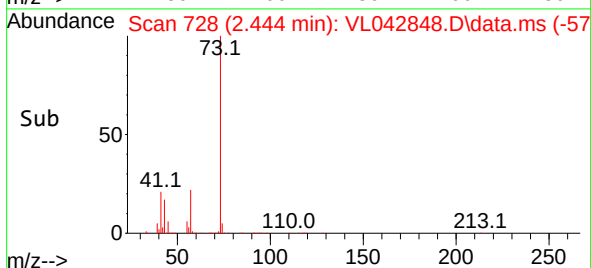
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

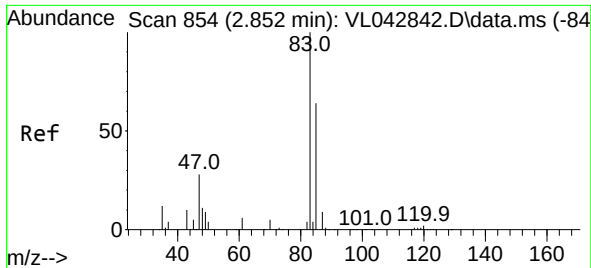


#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 73 Resp: 129978
Ion Ratio Lower Upper
73 100
57 22.5 21.6 32.4





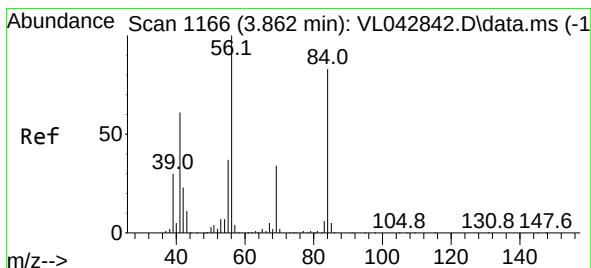
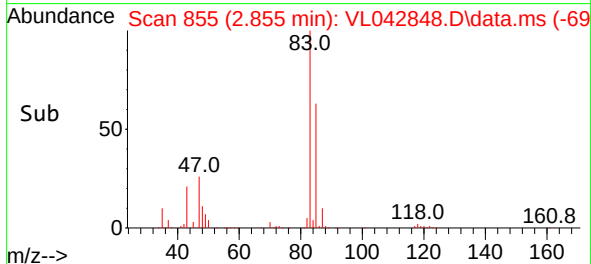
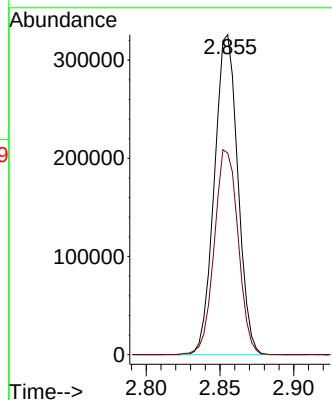
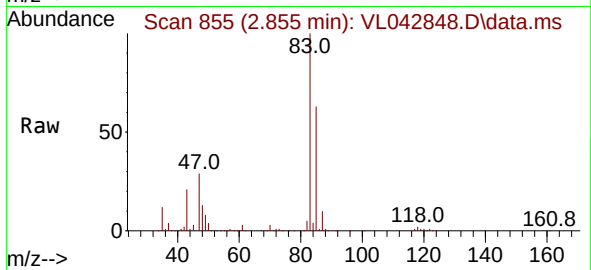
#29
Chloroform
Concen: 14.003 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 36066
Ion Ratio Lower Upper
83 100
85 63.0 51.1 76.7

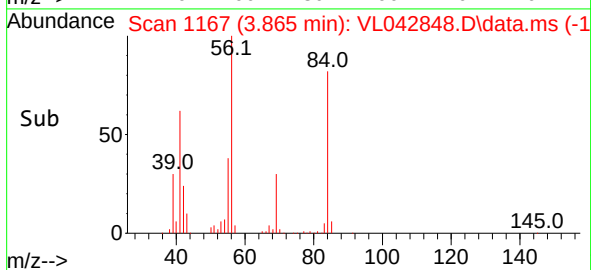
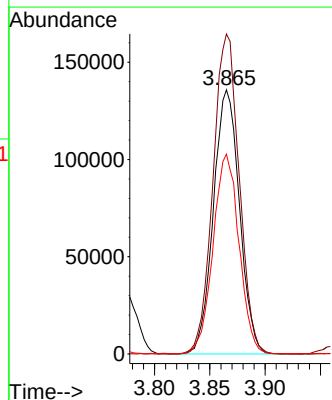
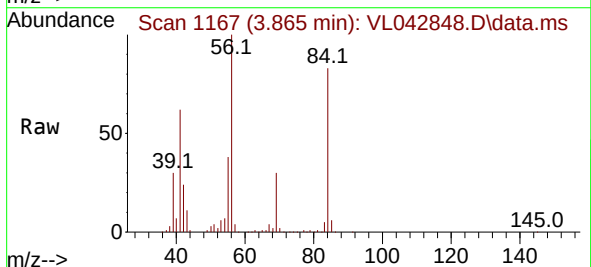
Manual Integrations
APPROVED

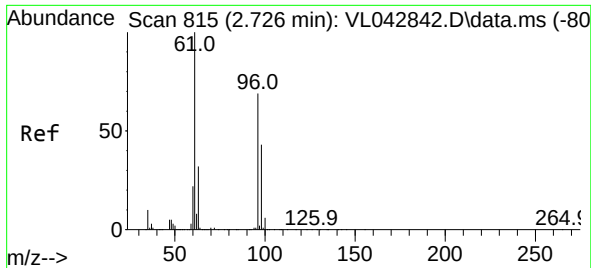
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 14.088 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

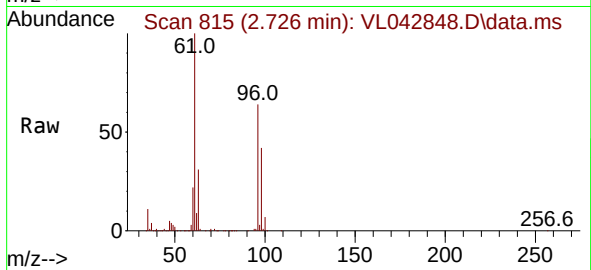
Tgt Ion: 84 Resp: 222820
Ion Ratio Lower Upper
84 100
56 121.5 98.8 148.2
41 75.1 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 13.821 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

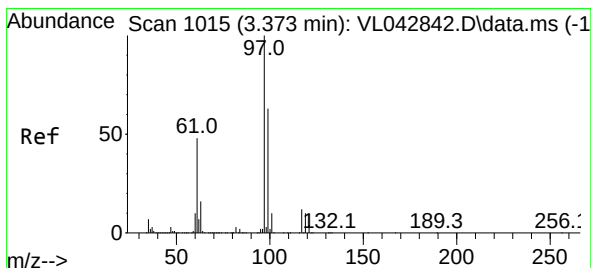
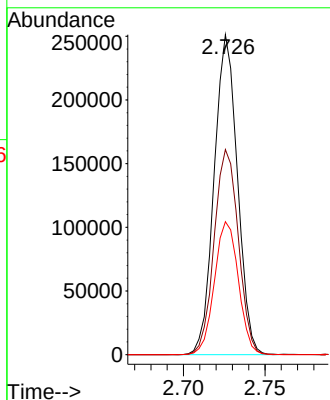
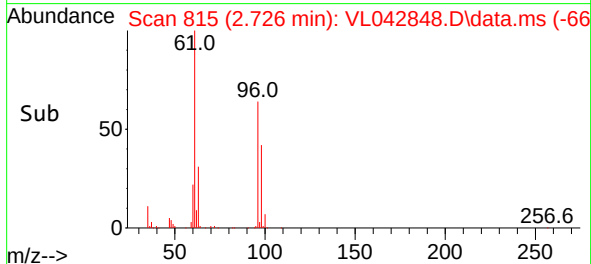
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



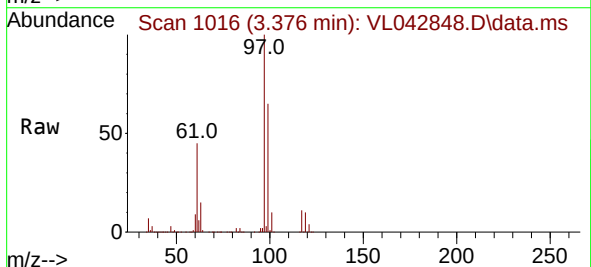
Tgt Ion: 61 Resp: 249370
 Ion Ratio Lower Upper
 61 100
 96 64.1 55.0 82.6
 98 41.6 34.3 51.5

Manual Integrations
 APPROVED

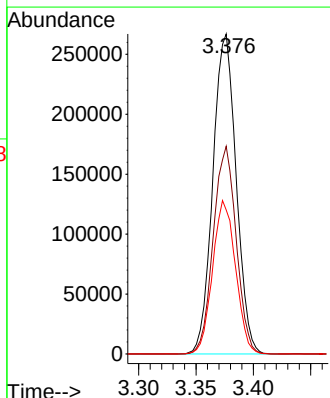
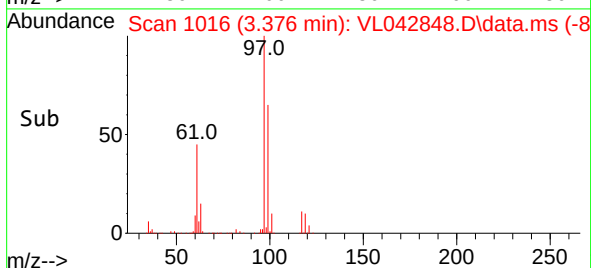
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

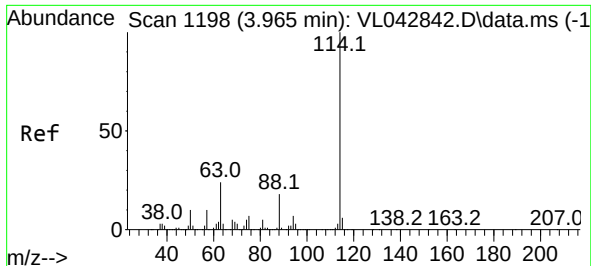


#32
 1,1,1-Trichloroethane
 Concen: 13.851 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



Tgt Ion: 97 Resp: 377739
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 47.2 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

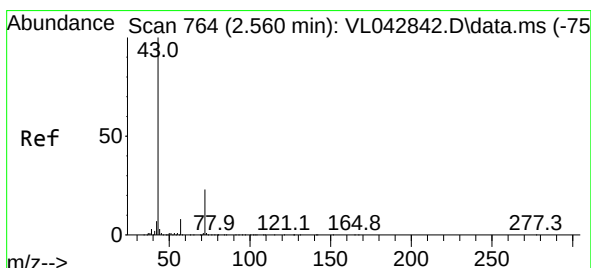
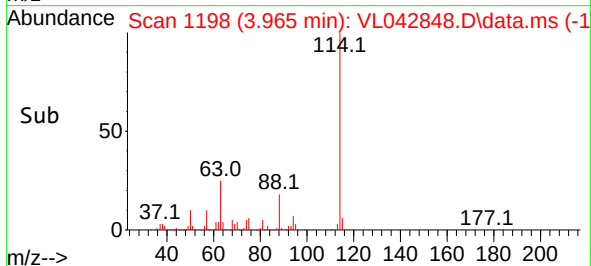
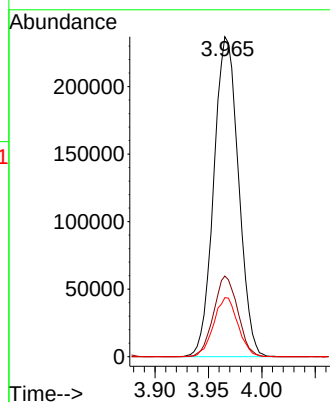
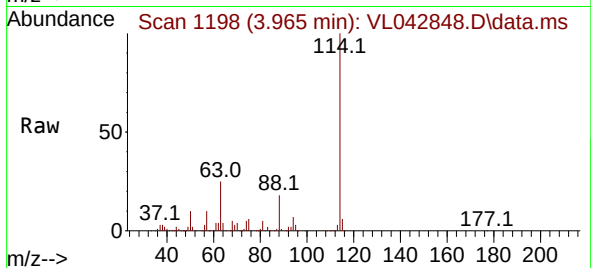
VSTDIC015

Tgt Ion:114	Resp: 38087
Ion Ratio	Lower Upper
114 100	
63 24.6	19.7 29.5
88 18.1	14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 13.563 ppbv

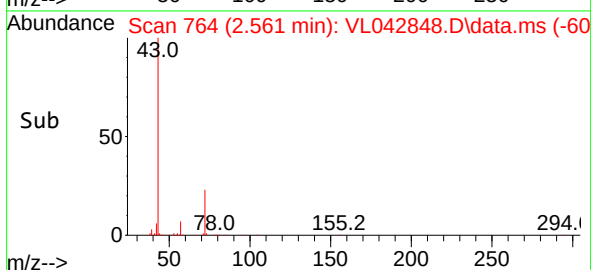
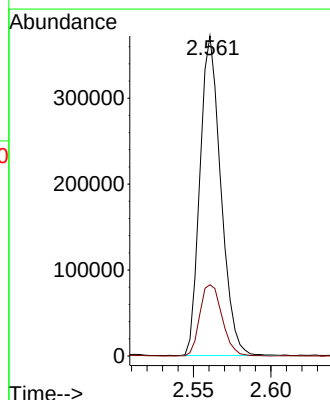
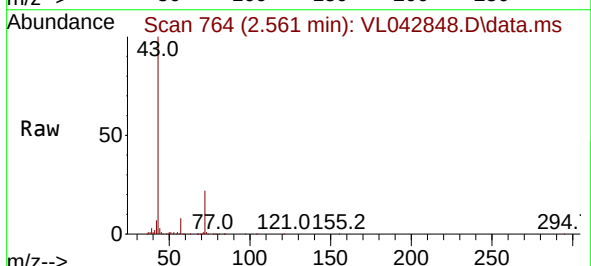
RT: 2.561 min Scan# 764

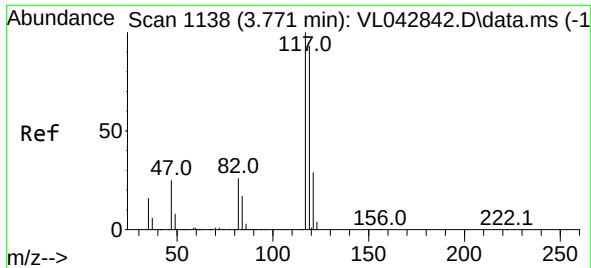
Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

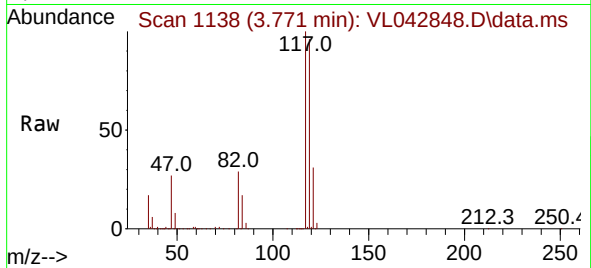
Tgt Ion: 43	Resp: 348815
Ion Ratio	Lower Upper
43 100	
72 23.8	18.6 28.0





#35
Carbon Tetrachloride
Concen: 13.990 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

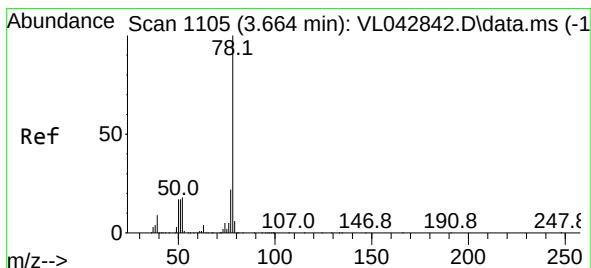
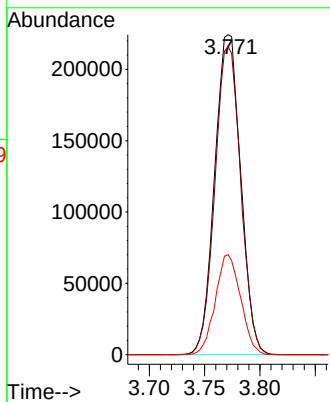
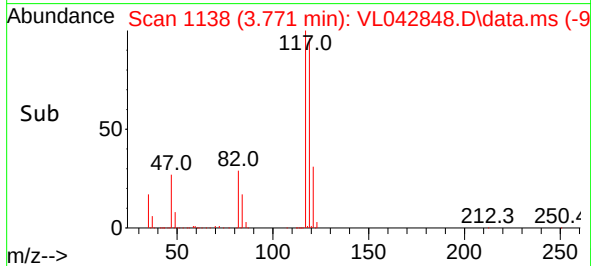
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



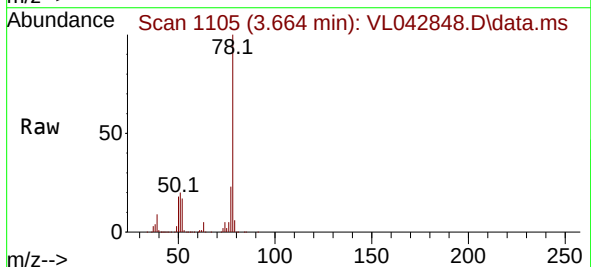
Tgt Ion: 117 Resp: 367354
Ion Ratio Lower Upper
117 100
119 96.3 74.7 112.1
121 31.2 23.2 34.8

Manual Integrations
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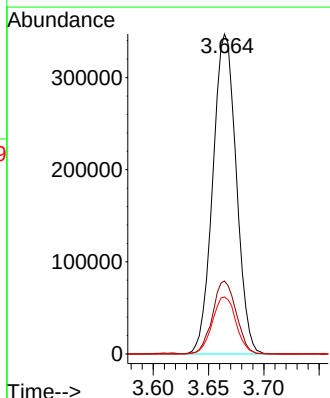
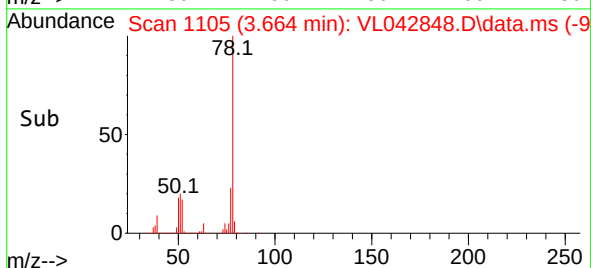
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

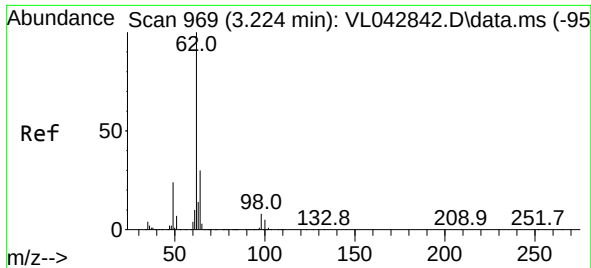


#36
Benzene
Concen: 14.033 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 78 Resp: 511811
Ion Ratio Lower Upper
78 100
77 22.8 17.7 26.5
50 17.8 13.9 20.9





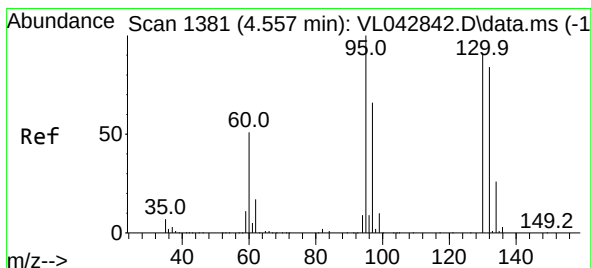
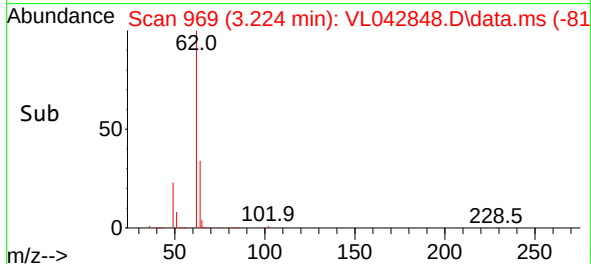
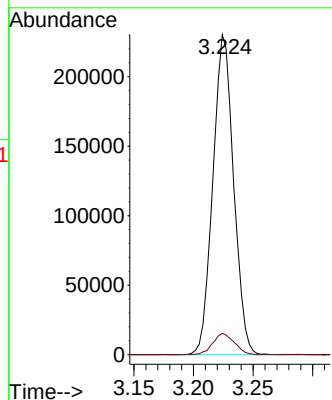
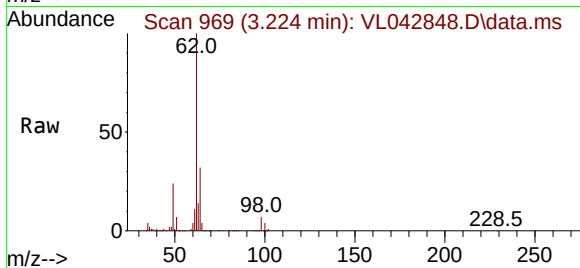
#37
1,2-Dichloroethane
Concen: 14.639 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 278934
Ion Ratio Lower Upper
62 100
98 6.9 5.9 8.9

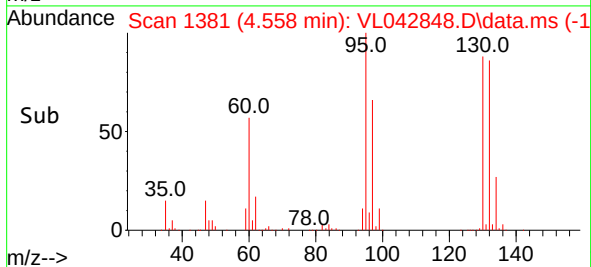
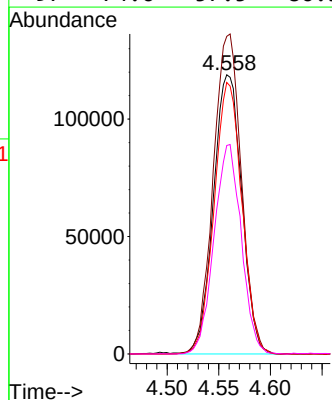
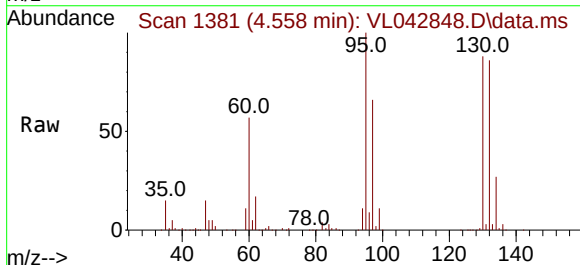
Manual Integrations
APPROVED

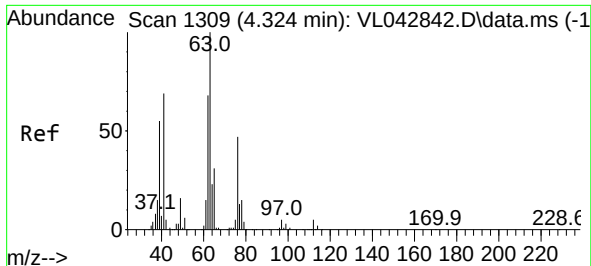
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 13.634 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:130 Resp: 227091
Ion Ratio Lower Upper
130 100
95 113.8 87.6 131.4
132 97.3 73.8 110.8
97 74.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 13.984 ppbv

RT: 4.325 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

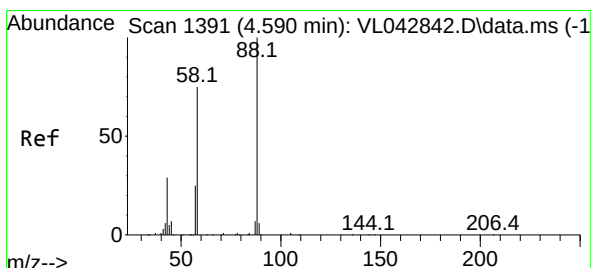
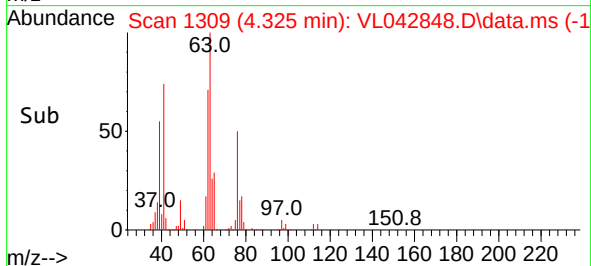
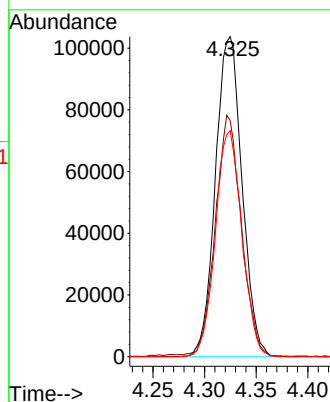
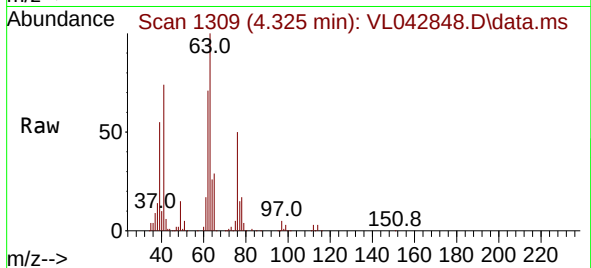
Tgt Ion: 63 Resp: 18627

Ion	Ratio	Lower	Upper
63	100		
41	73.5	55.0	82.4
62	70.6	54.4	81.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 13.212 ppbv

RT: 4.593 min Scan# 1392

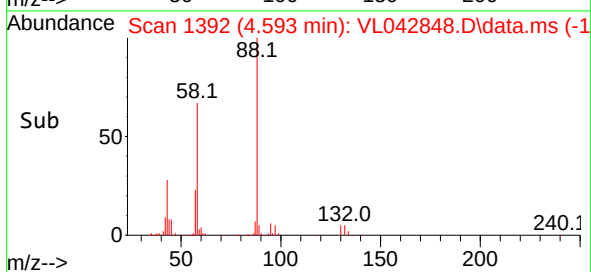
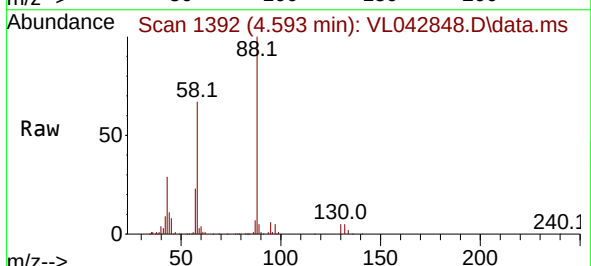
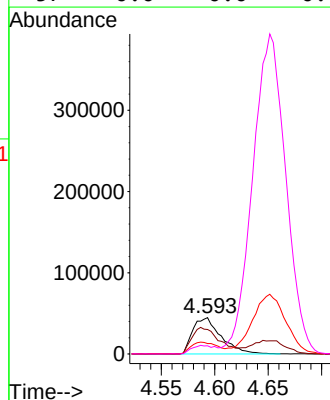
Delta R.T. 0.003 min

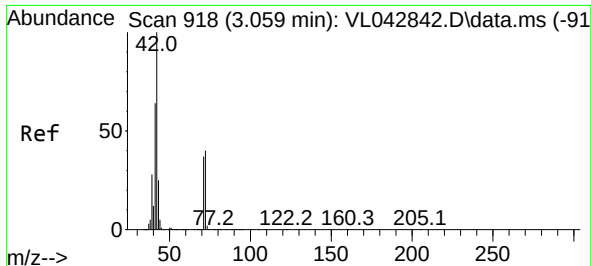
Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 88 Resp: 82385

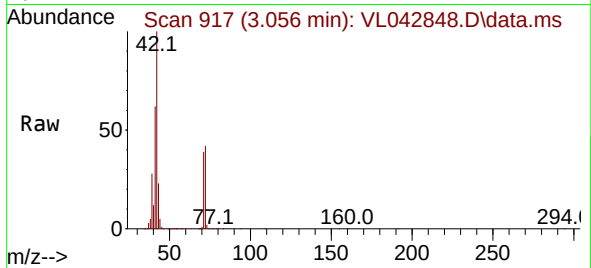
Ion	Ratio	Lower	Upper
88	100		
58	73.5	53.8	80.6
43	33.9	22.8	34.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

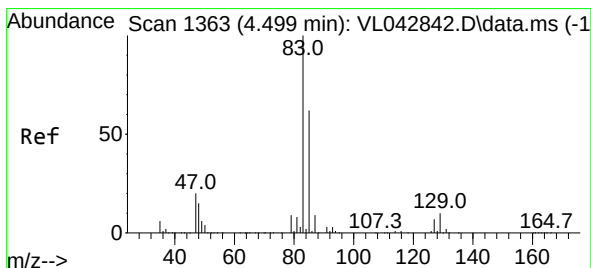
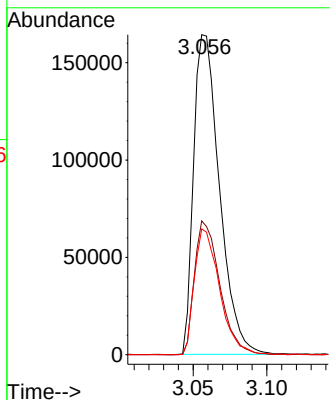
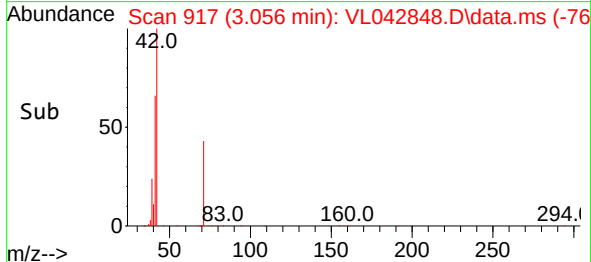
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 42 Resp: 20075
Ion Ratio Lower Upper
42 100
72 41.0 32.6 48.8
71 38.4 30.0 45.0

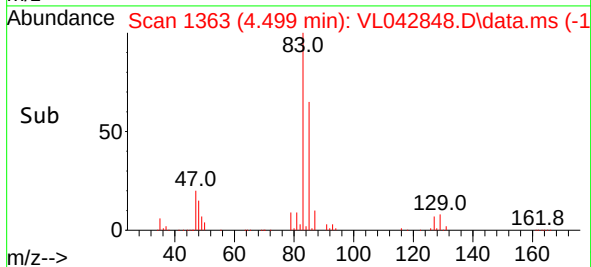
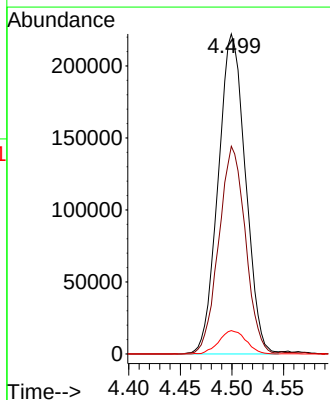
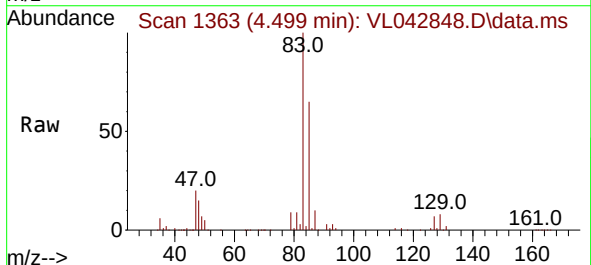
Manual Integrations
APPROVED

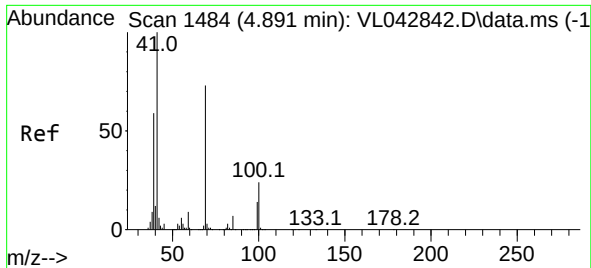
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 14.372 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 408089
Ion Ratio Lower Upper
83 100
85 64.9 49.8 74.8
127 7.3 5.8 8.6





#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 1410
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

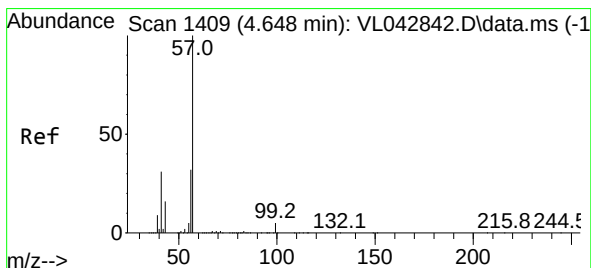
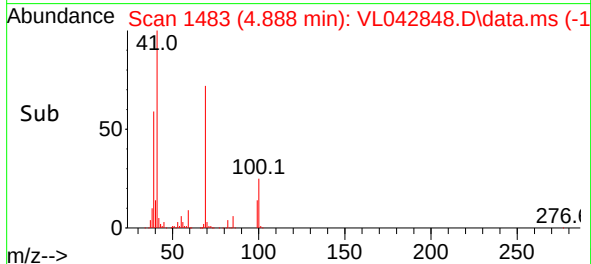
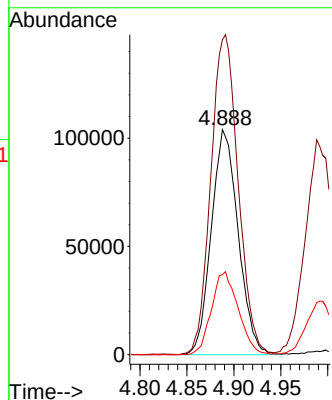
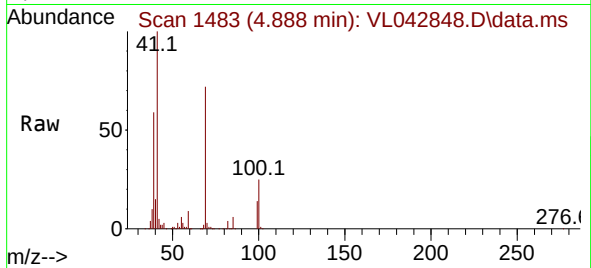
VSTDIC015

Tgt Ion: 69 Resp: 206590
Ion Ratio Lower Upper
69 100
41 144.8 114.6 172.0
100 36.8 30.2 45.4

Manual Integrations

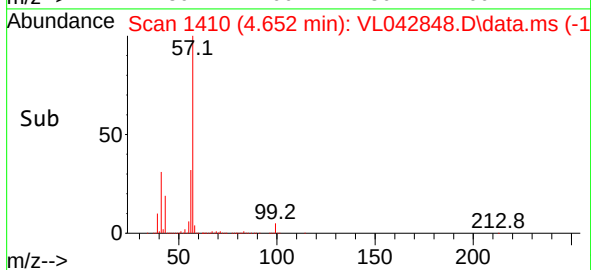
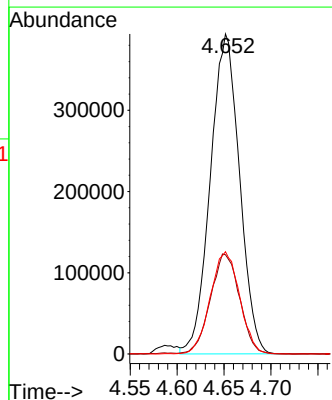
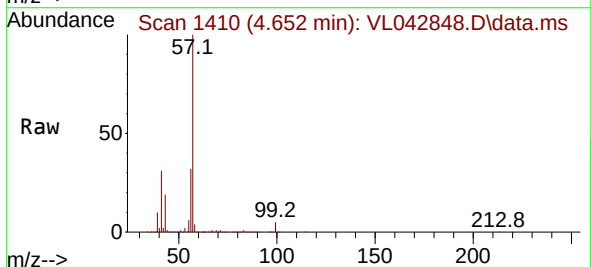
APPROVED

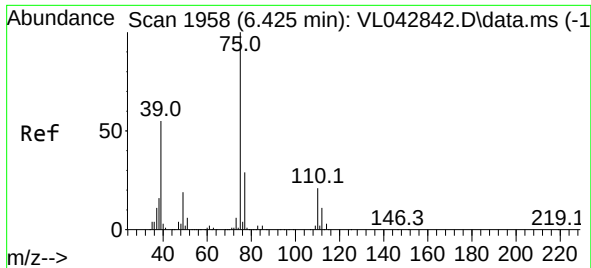
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#44
2,2,4-Trimethylpentane
Concen: 13.895 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 57 Resp: 850847
Ion Ratio Lower Upper
57 100
41 31.5 24.8 37.2
56 32.1 25.5 38.3





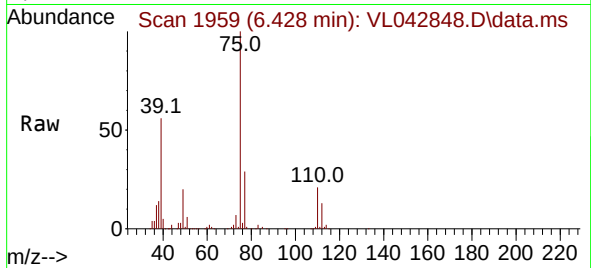
#45
 t-1,3-Dichloropropene
 Concen: 14.387 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

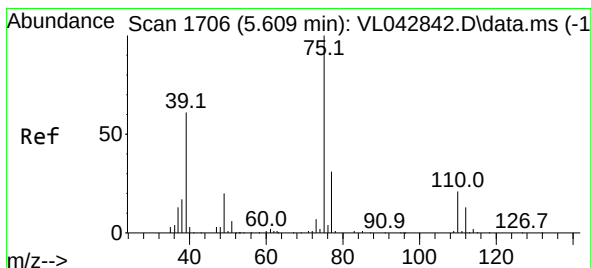
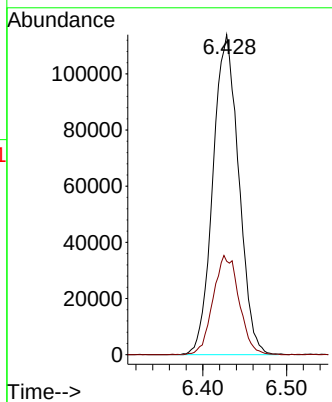
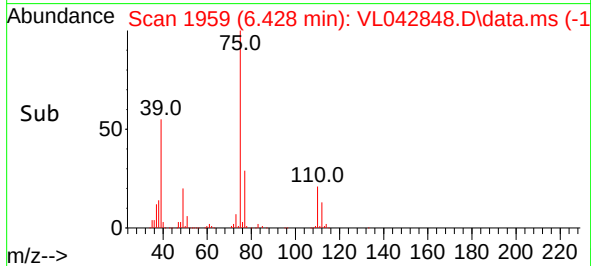


Tgt Ion: 75 Resp: 244117
 Ion Ratio Lower Upper
 75 100
 77 29.2 23.8 35.6

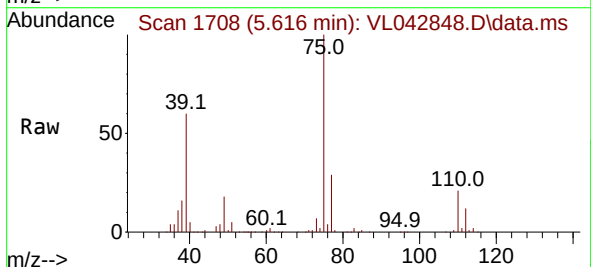
Manual Integrations

APPROVED

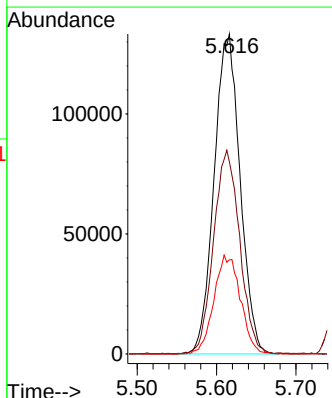
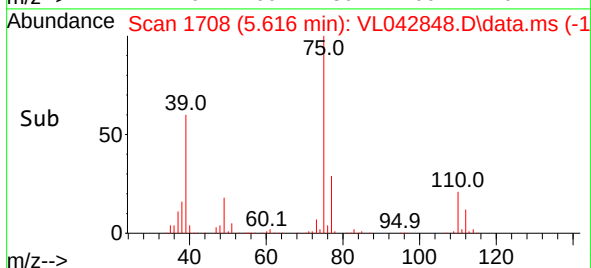
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

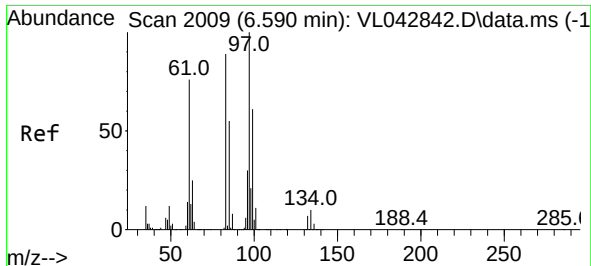


#46
 cis-1,3-Dichloropropene
 Concen: 14.191 ppbv
 RT: 5.616 min Scan# 1708
 Delta R.T. 0.007 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



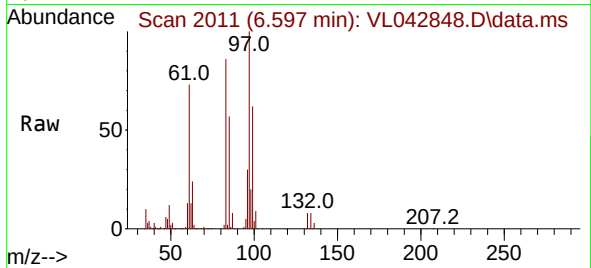
Tgt Ion: 75 Resp: 302339
 Ion Ratio Lower Upper
 75 100
 39 59.9 48.9 73.3
 77 29.4 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 14.118 ppbv
RT: 6.597 min Scan# 2009
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

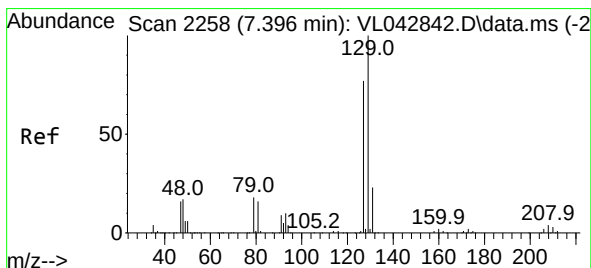
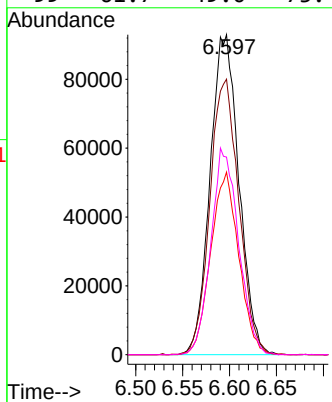
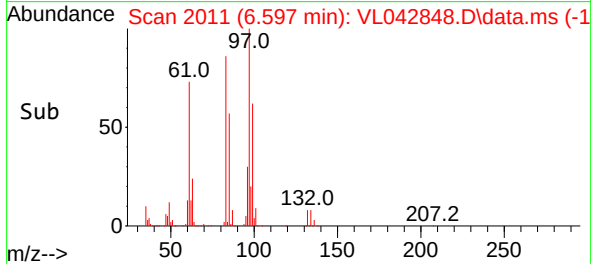
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 97 Resp: 19906
Ion Ratio Lower Upper
97 100
83 86.0 71.0 106.4
85 57.0 43.6 65.4
99 61.7 49.0 73.4

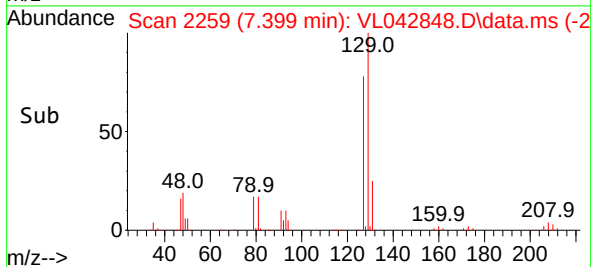
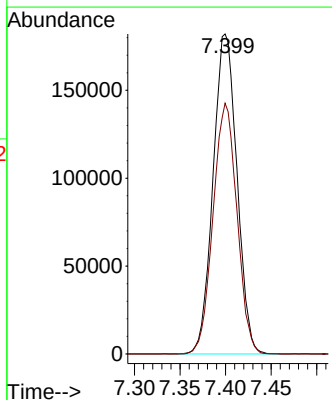
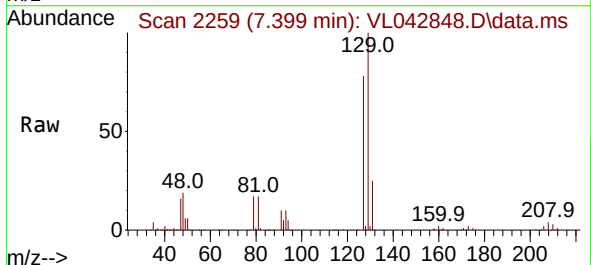
Manual Integrations
APPROVED

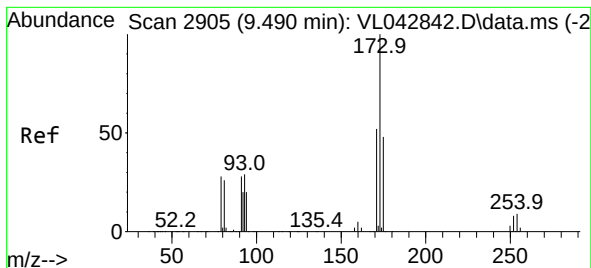
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48
Dibromochloromethane
Concen: 14.535 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:129 Resp: 331947
Ion Ratio Lower Upper
129 100
127 78.4 39.4 118.2





#49

Bromoform

Concen: 14.162 ppbv

RT: 9.494 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

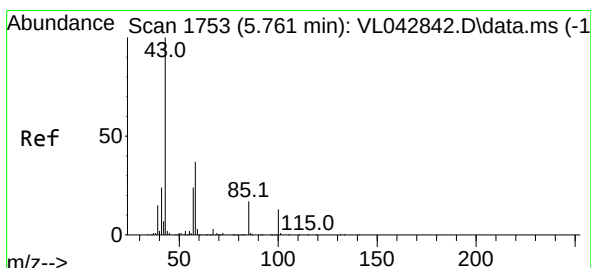
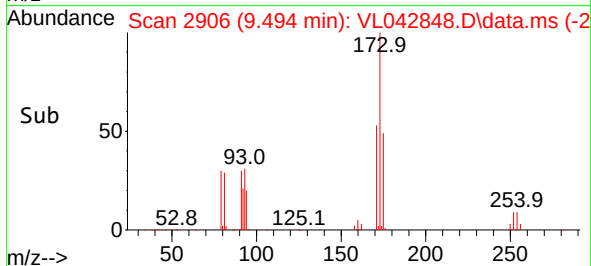
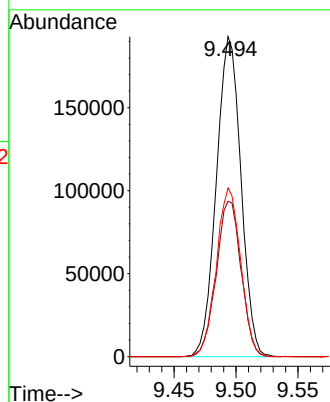
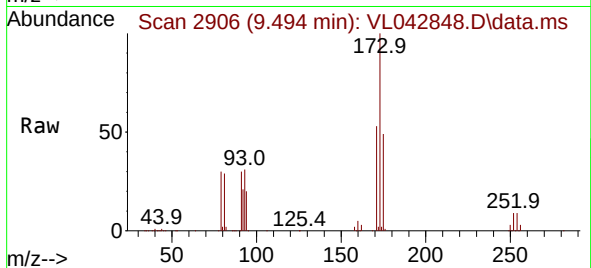
VSTDICC015

Tgt Ion:173 Resp: 266732
 Ion Ratio Lower Upper
 173 100
 175 49.2 39.2 58.8
 171 52.1 41.3 61.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#50

4-Methyl-2-Pentanone

Concen: 14.073 ppbv

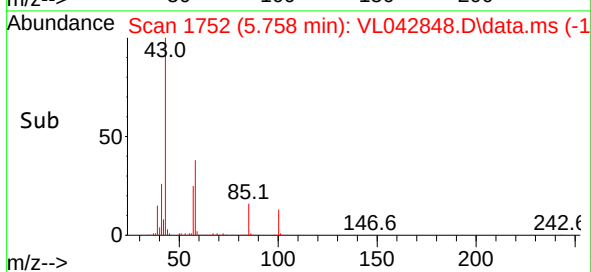
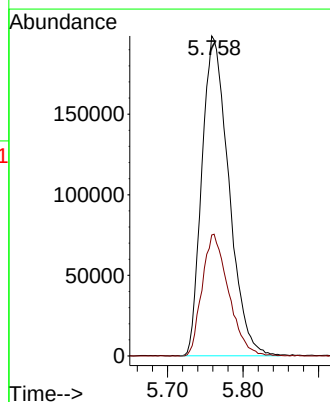
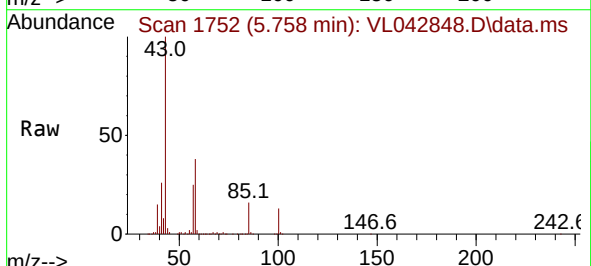
RT: 5.758 min Scan# 1752

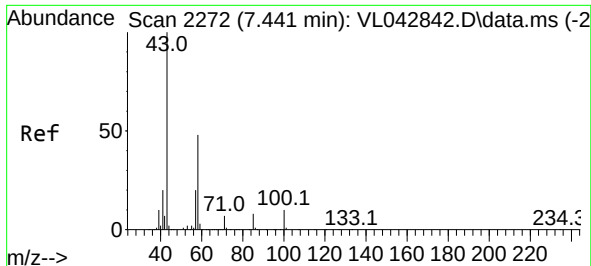
Delta R.T. -0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

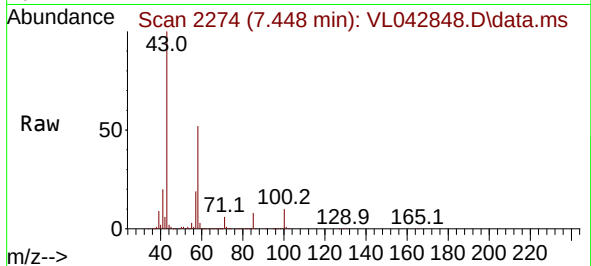
Tgt Ion: 43 Resp: 490917
 Ion Ratio Lower Upper
 43 100
 58 37.5 29.8 44.8





#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

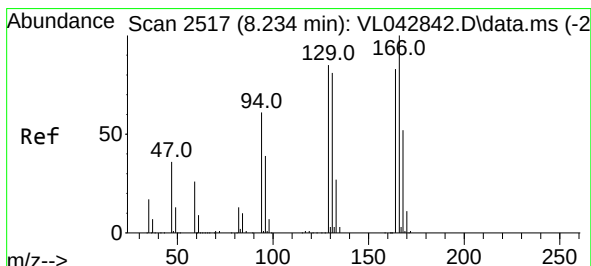
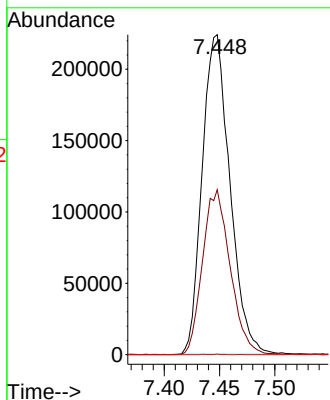
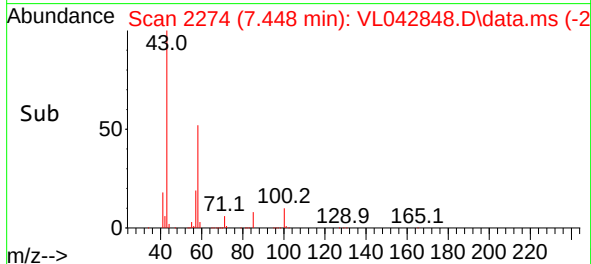
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 389940
Ion Ratio Lower Upper
43 100
58 51.6 41.0 61.6
98 0.1 0.1 0.1

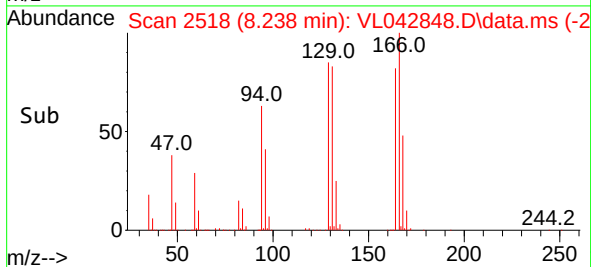
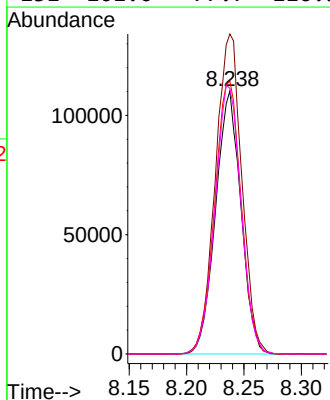
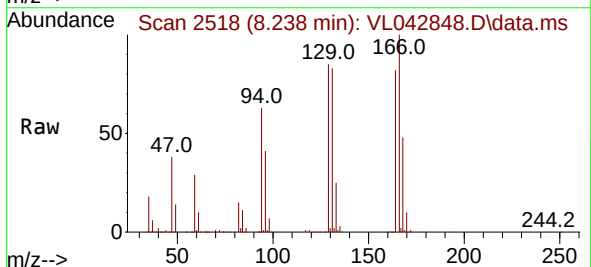
Manual Integrations
APPROVED

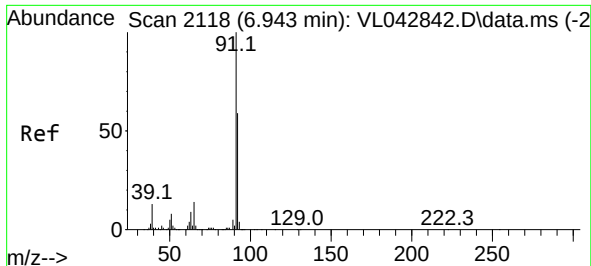
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 12.772 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

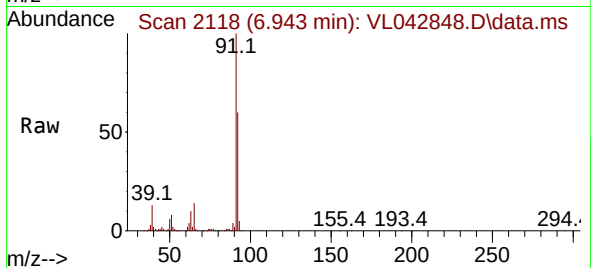
Tgt Ion:164 Resp: 168712
Ion Ratio Lower Upper
164 100
166 121.7 96.5 144.7
129 103.7 81.8 122.6
131 101.0 77.7 116.5





#53
Toluene
Concen: 13.961 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

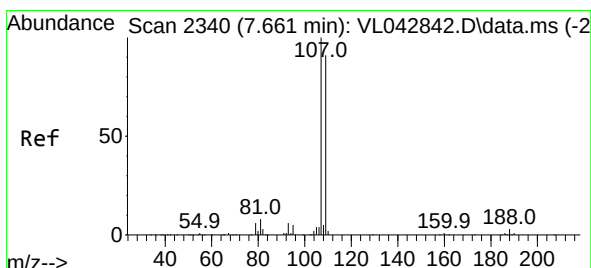
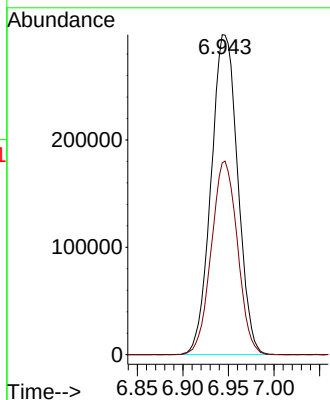
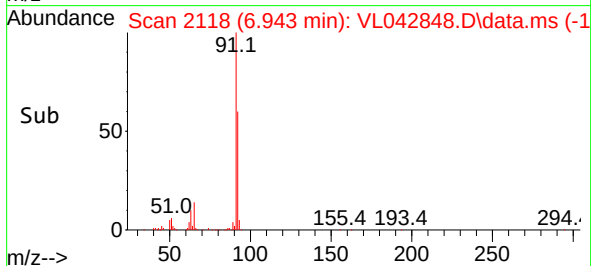
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



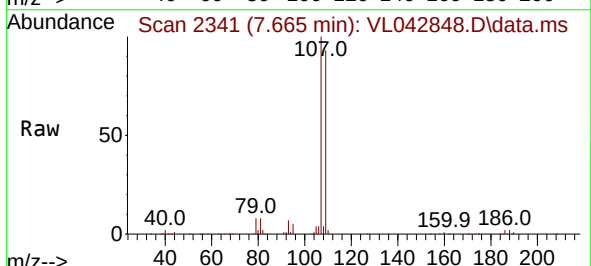
Tgt Ion: 91 Resp: 60594
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6

Manual Integrations
APPROVED

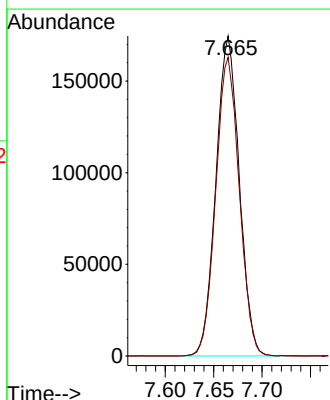
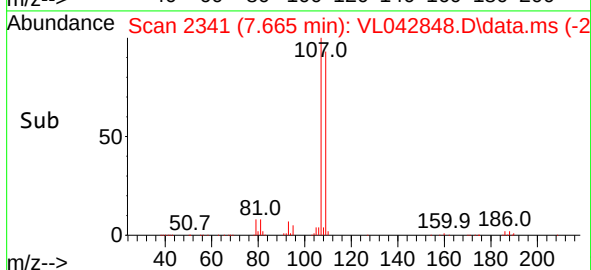
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

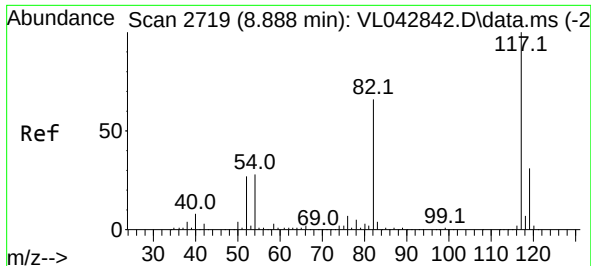


#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



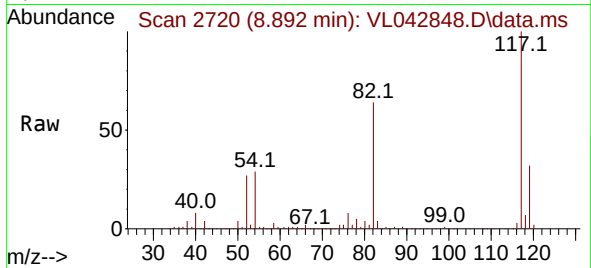
Tgt Ion:107 Resp: 292327
Ion Ratio Lower Upper
107 100
109 93.4 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

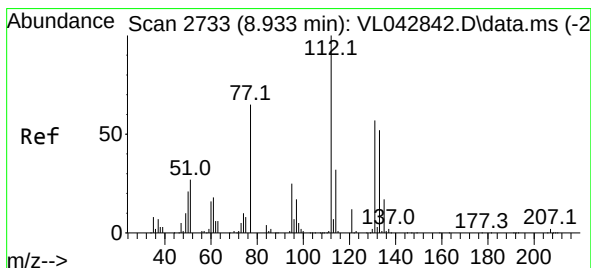
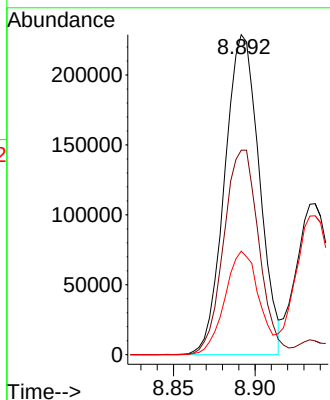
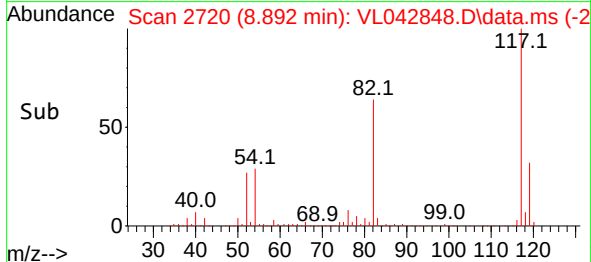
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 337870
Ion Ratio Lower Upper
117 100
82 65.3 54.6 81.8
119 32.5 25.9 38.9

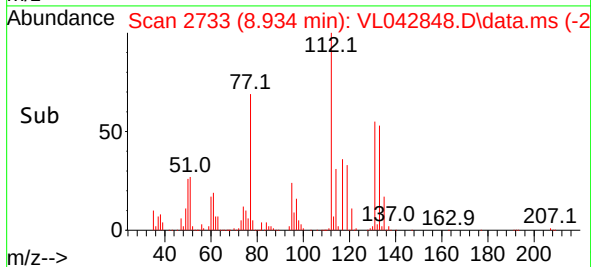
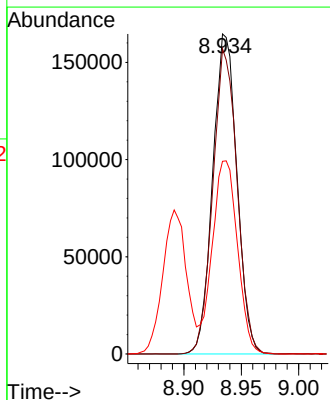
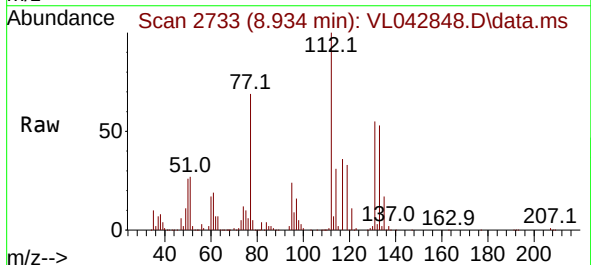
Manual Integrations
APPROVED

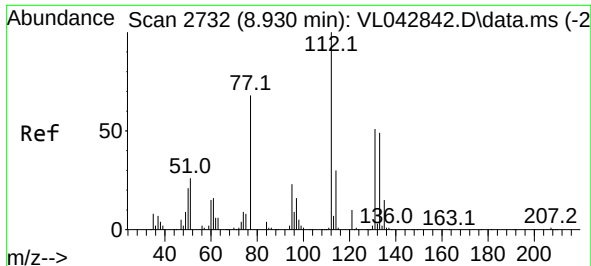
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 13.810 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:131 Resp: 241293
Ion Ratio Lower Upper
131 100
133 95.6 77.4 116.0
119 63.4 51.2 76.8





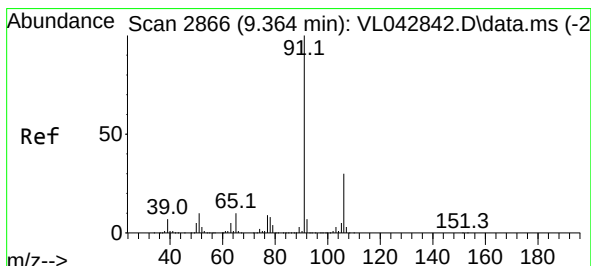
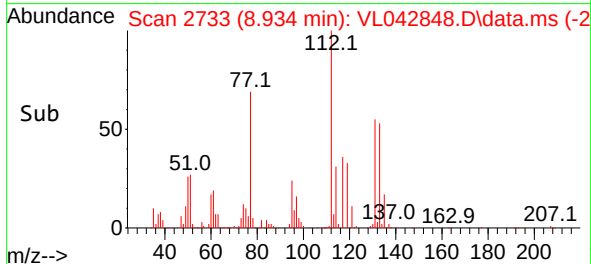
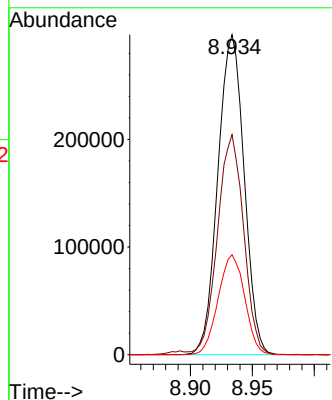
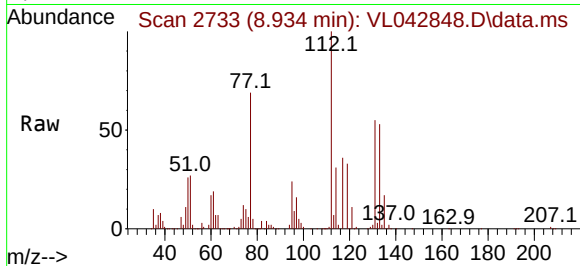
#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 112 Resp: 439109
Ion Ratio Lower Upper
112 100
77 68.6 55.5 83.3
114 31.2 27.2 33.2

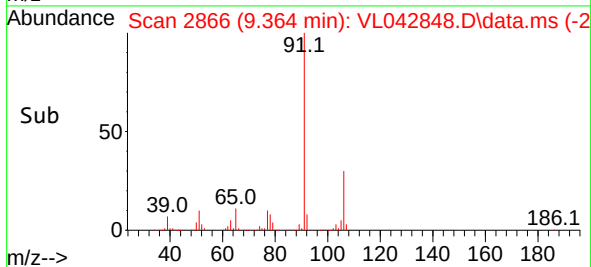
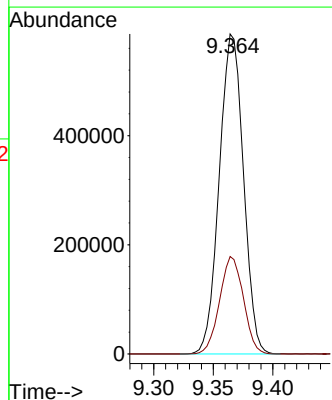
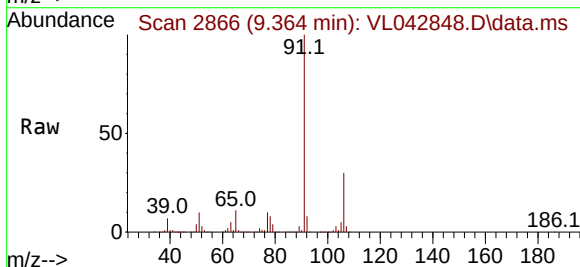
Manual Integrations
APPROVED

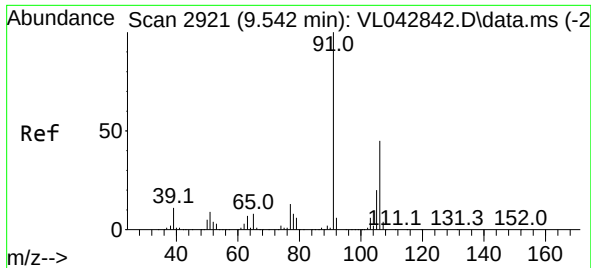
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 13.859 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 826316
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9





#59

m/p-Xylene

Concen: 27.650 ppbv m

RT: 9.561 min Scan# 2921

Delta R.T. 0.020 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 129438

Ion Ratio Lower Upper

91 100

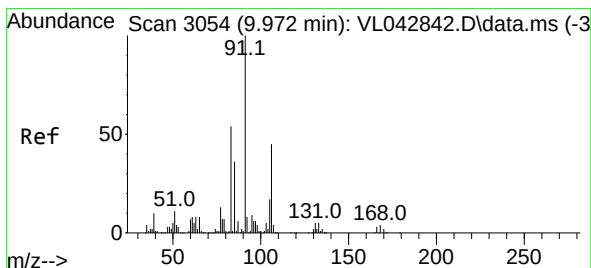
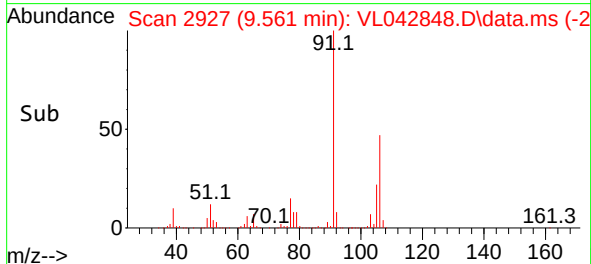
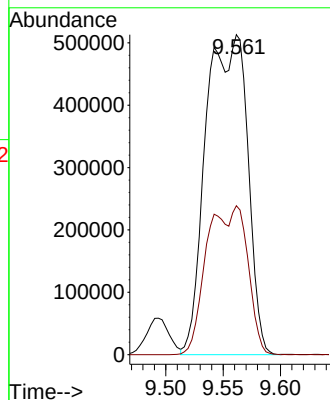
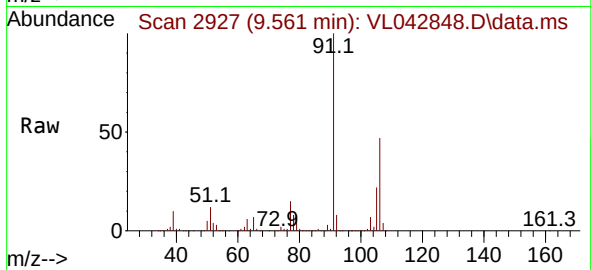
106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 13.389 ppbv

RT: 9.973 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042848.D

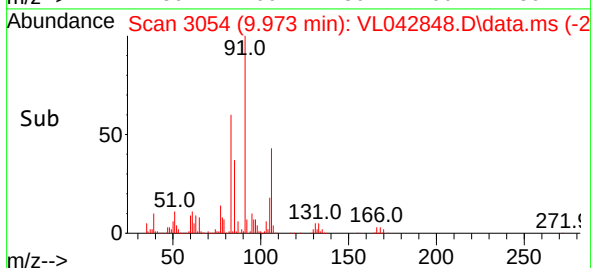
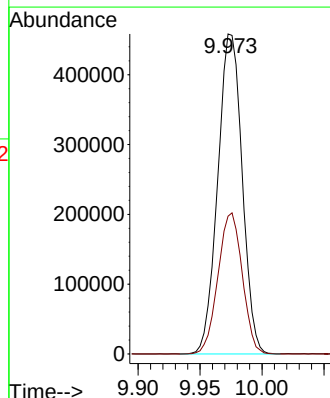
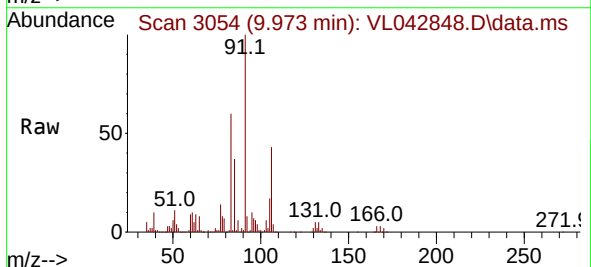
Acq: 13 Aug 2025 12:06

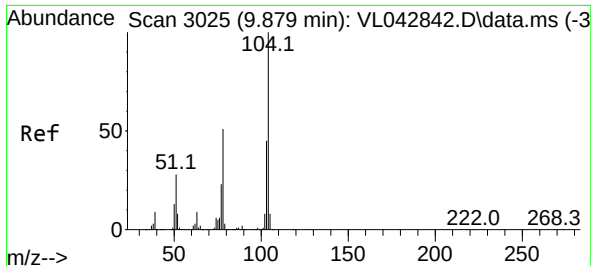
Tgt Ion: 91 Resp: 629445

Ion Ratio Lower Upper

91 100

106 43.9 21.8 65.4





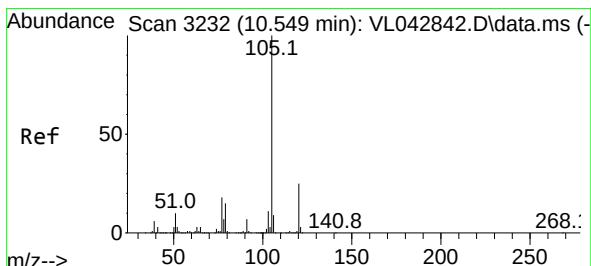
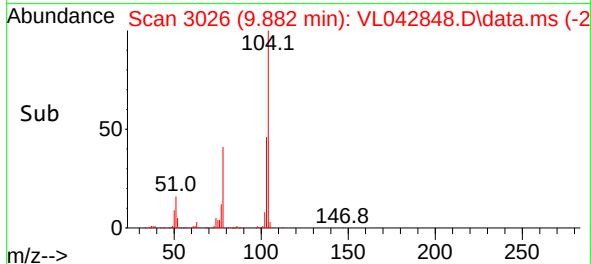
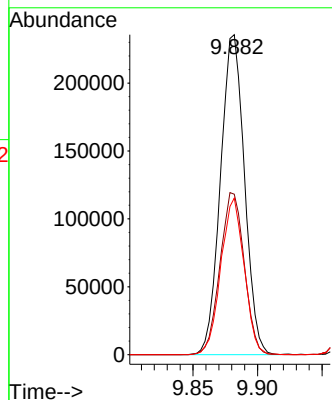
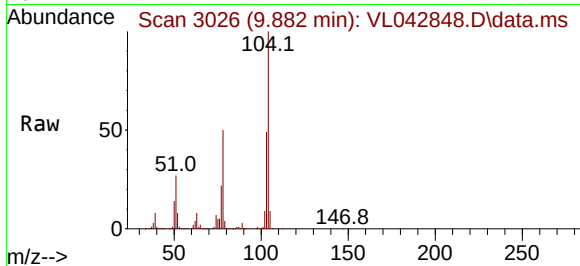
#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:104 Resp: 304560
Ion Ratio Lower Upper
104 100
78 51.1 40.6 61.0
103 47.6 37.7 56.5

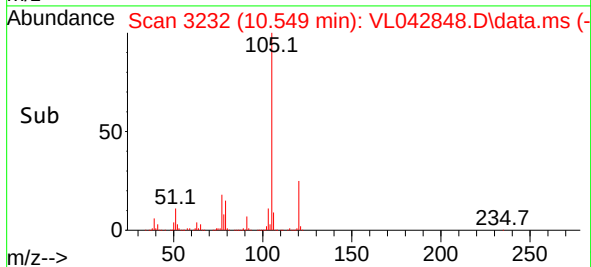
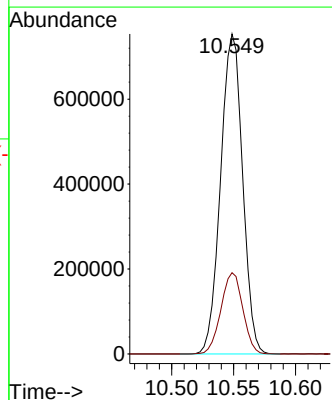
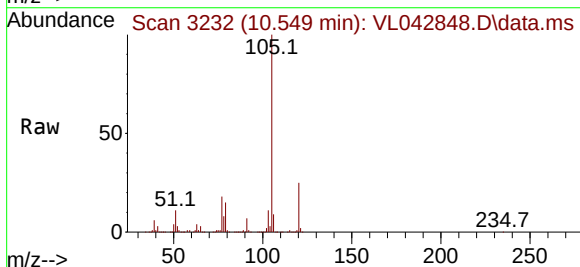
Manual Integrations
APPROVED

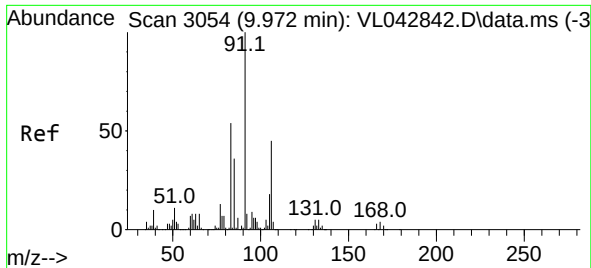
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

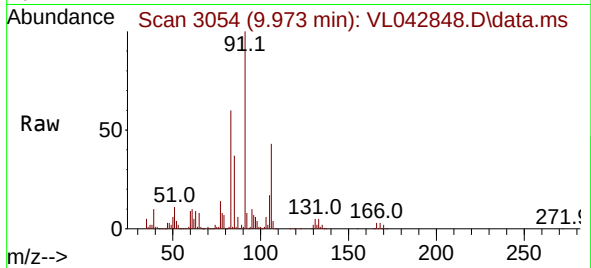
Tgt Ion:105 Resp: 931574
Ion Ratio Lower Upper
105 100
120 25.2 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 13.356 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

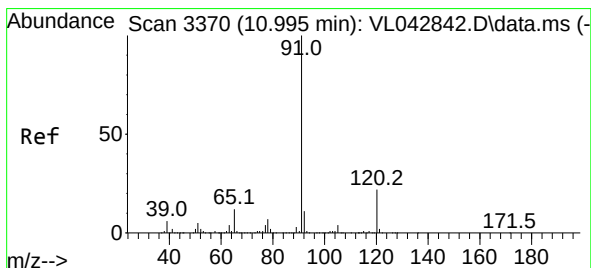
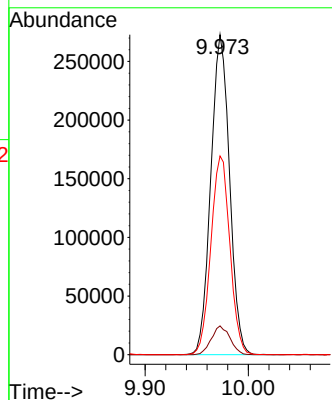
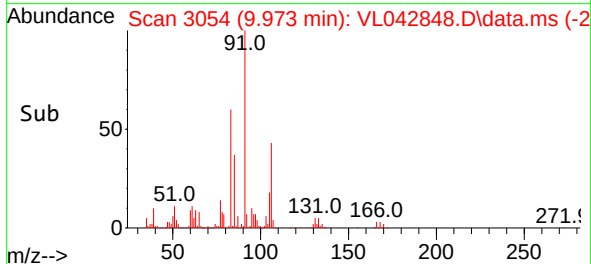
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



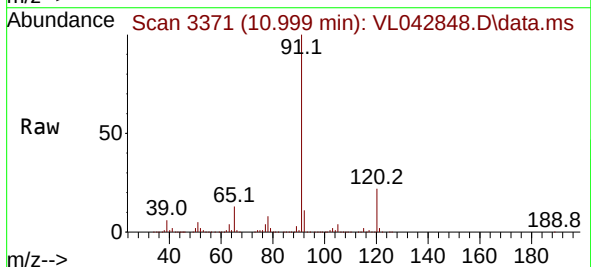
Tgt Ion: 83 Resp: 342890
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 63.0 32.3 96.8

Manual Integrations
APPROVED

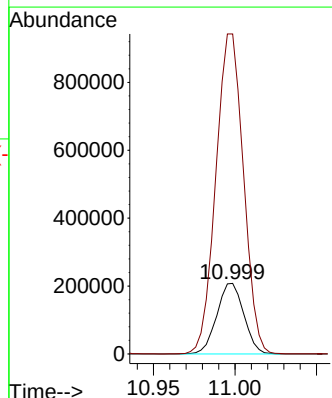
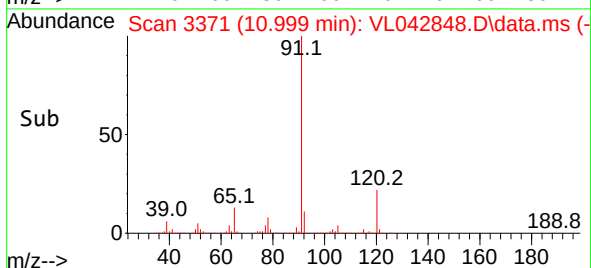
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

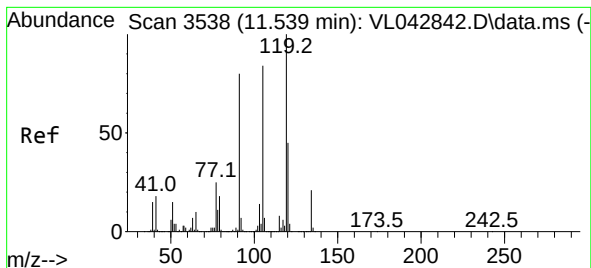


#64
n-propylbenzene
Concen: 13.646 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion:120 Resp: 239209
Ion Ratio Lower Upper
120 100
91 465.1 375.8 563.6





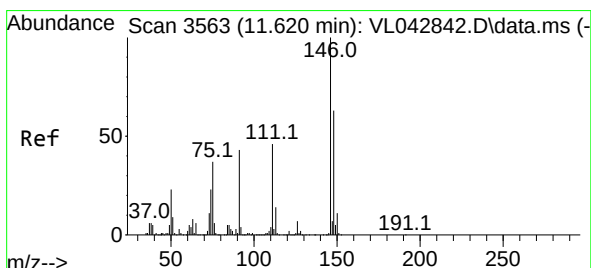
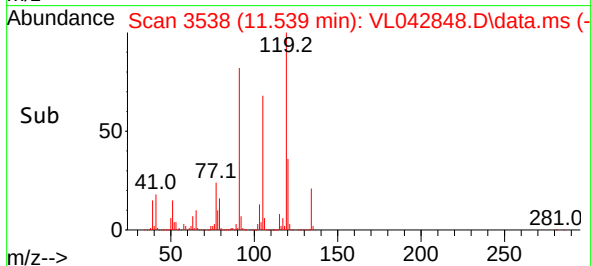
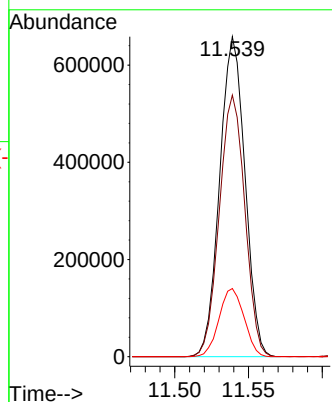
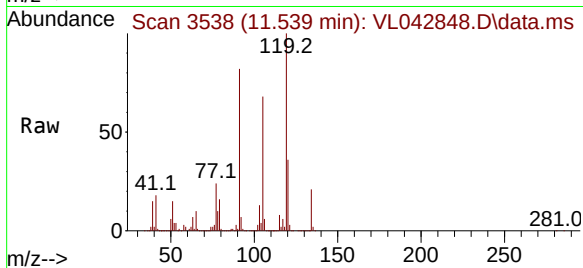
#65
tert-Butylbenzene
Concen: 12.965 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 785250
Ion Ratio Lower Upper
119 100
91 82.4 63.9 95.9
134 21.1 17.0 25.4

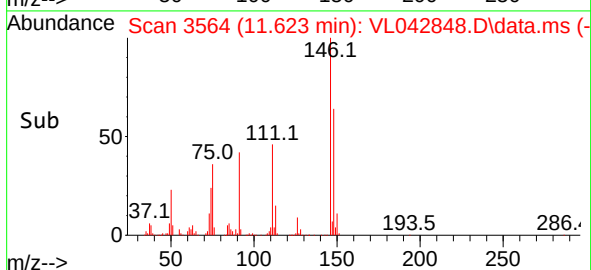
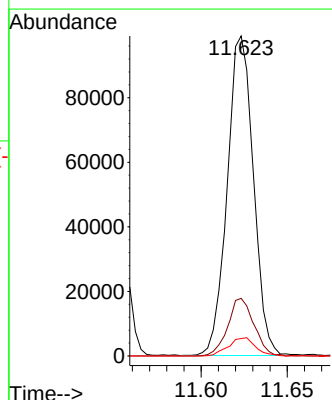
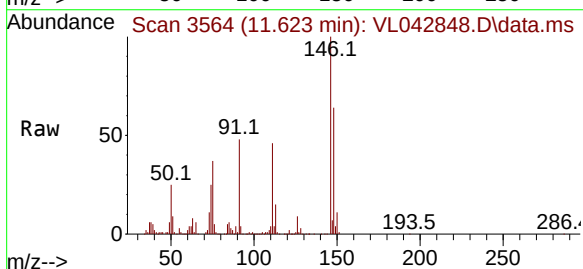
Manual Integrations
APPROVED

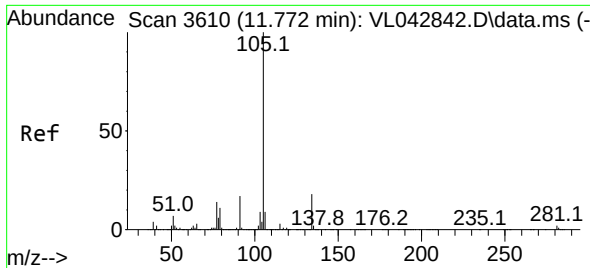
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#66
Benzyl Chloride
Concen: 13.617 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

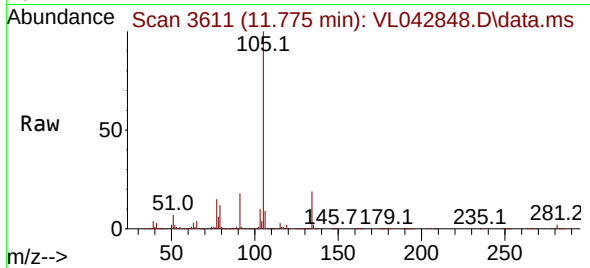
Tgt Ion: 91 Resp: 104698
Ion Ratio Lower Upper
91 100
126 18.1 14.2 21.4
128 5.9 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 13.127 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

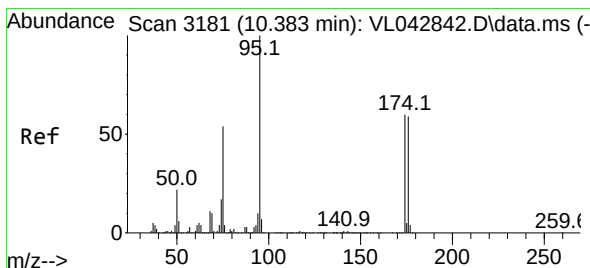
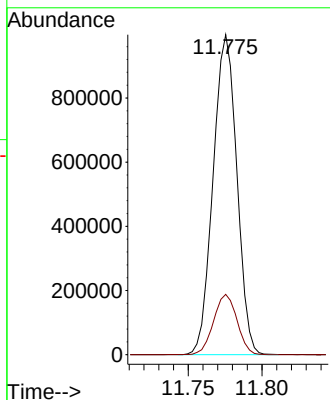
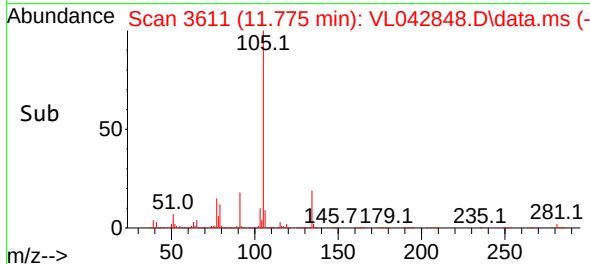
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



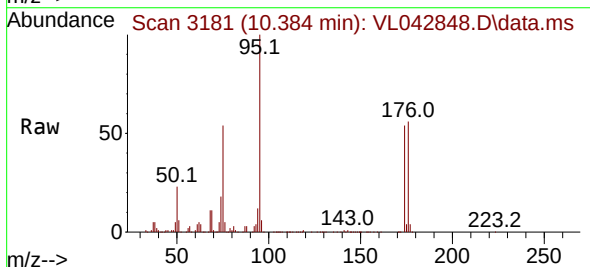
Tgt Ion:105 Resp: 1115979
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3

Manual Integrations
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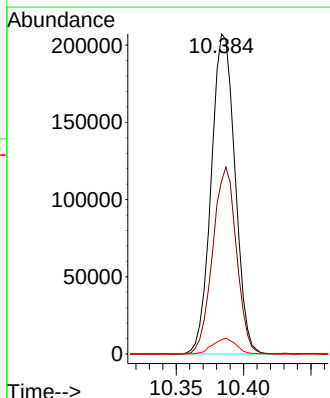
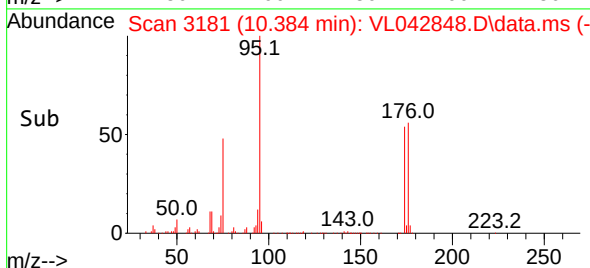
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

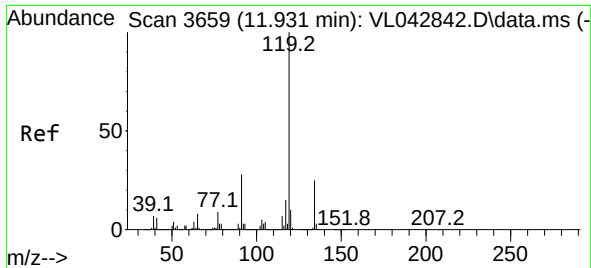


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.050 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



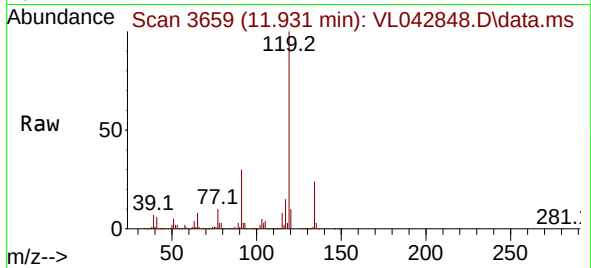
Tgt Ion: 95 Resp: 254655
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.8 3.8 5.8





#69
p-Isopropyltoluene
Concen: 12.891 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

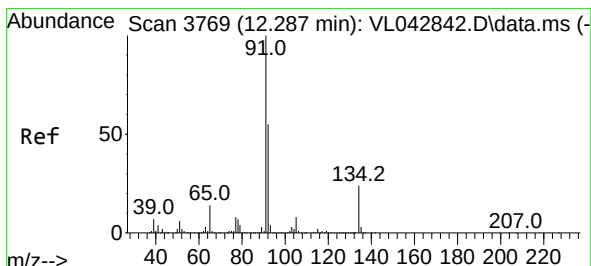
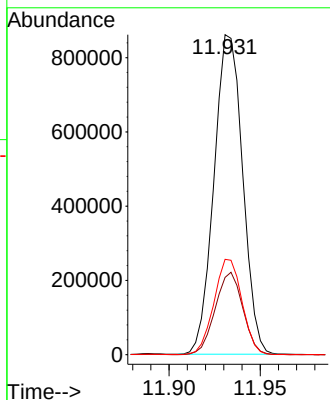
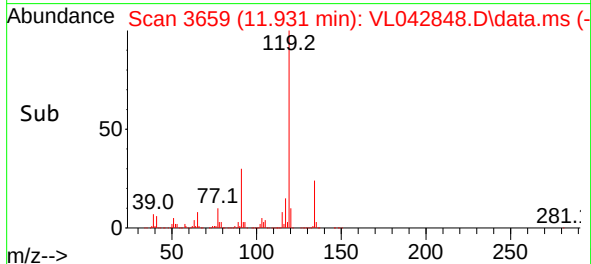
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



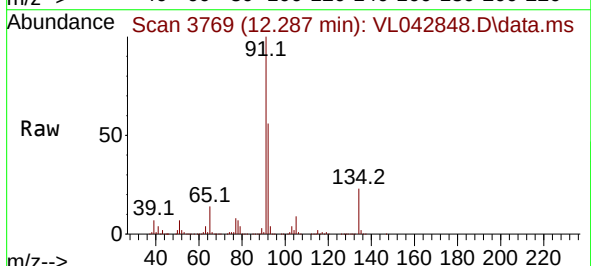
Tgt Ion: 119 Resp: 940888
Ion Ratio Lower Upper
119 100
134 25.0 20.6 30.8
91 29.4 22.6 34.0

Manual Integrations
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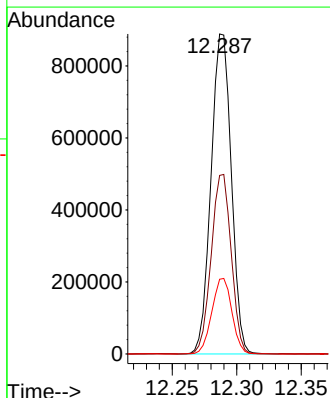
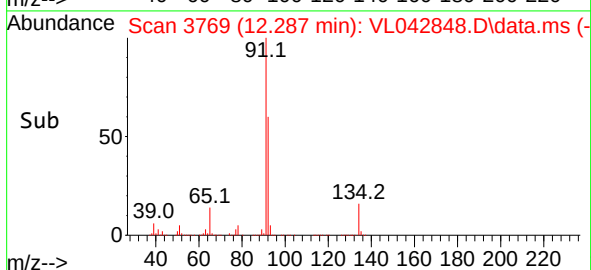
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

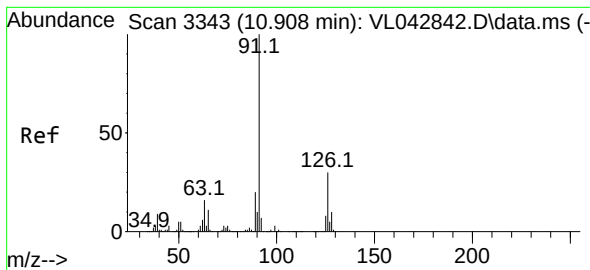


#70
n-Butylbenzene
Concen: 13.410 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 91 Resp: 970700
Ion Ratio Lower Upper
91 100
92 55.5 44.6 66.8
134 23.3 19.0 28.4





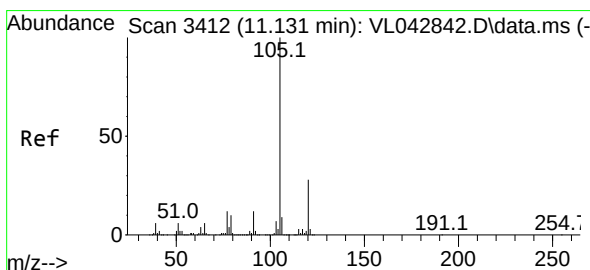
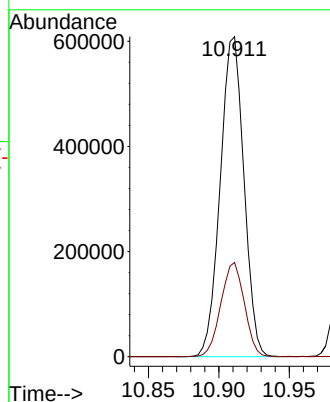
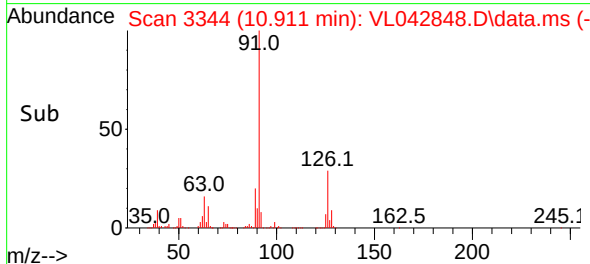
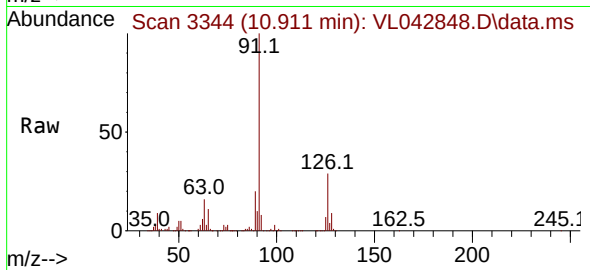
#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 713690
Ion Ratio Lower Upper
91 100
126 29.2 12.0 47.8

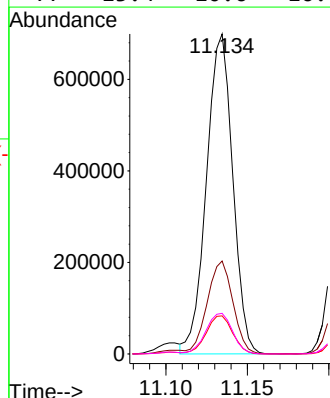
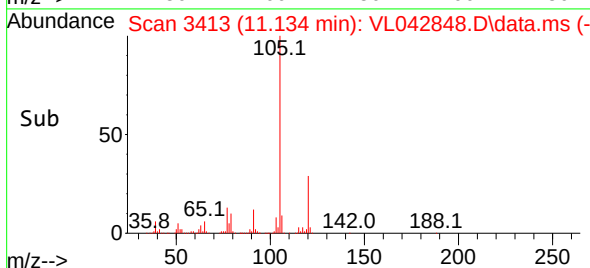
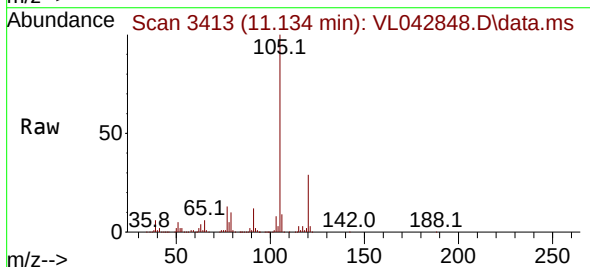
Manual Integrations
APPROVED

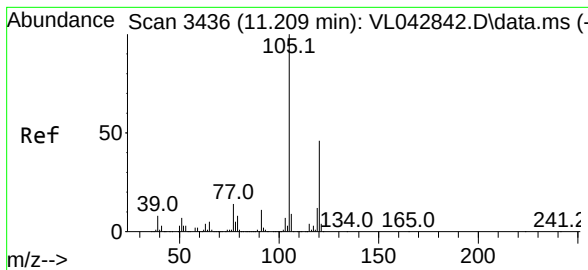
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 13.722 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 782057
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.2
91 12.5 9.8 14.6
77 13.4 10.6 16.0





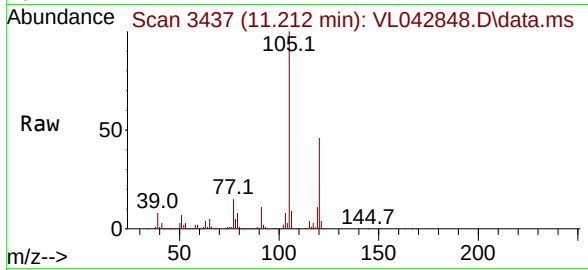
#73
1,3,5-Trimethylbenzene
Concen: 13.418 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

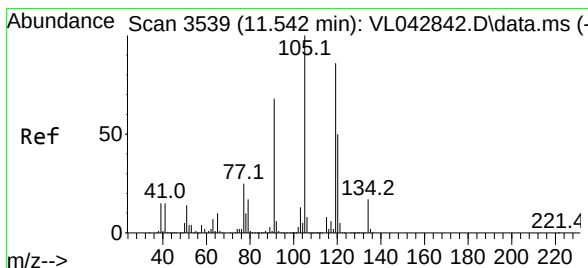
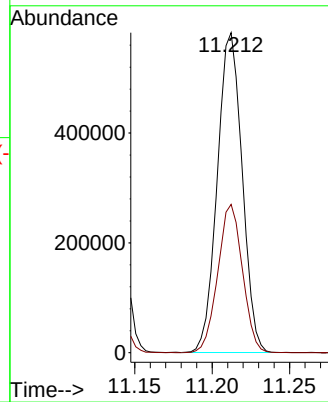
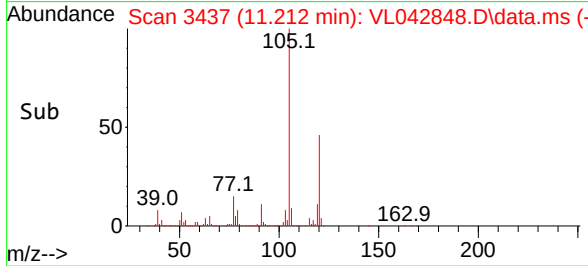


Tgt Ion:105 Resp: 650280
Ion Ratio Lower Upper
105 100
120 46.4 36.6 54.8

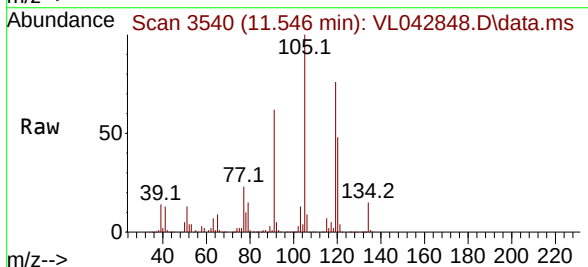
Manual Integrations

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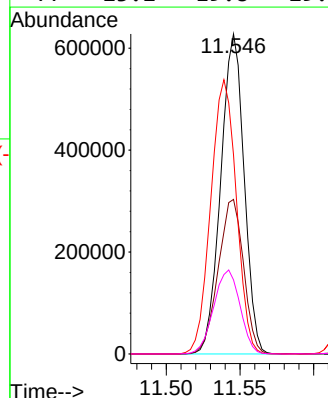
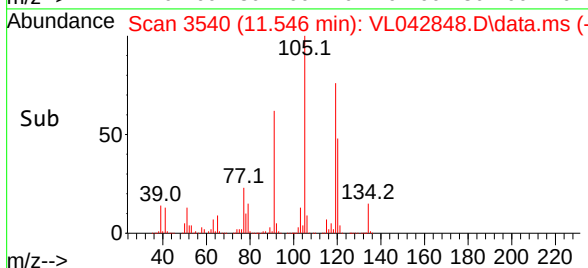
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

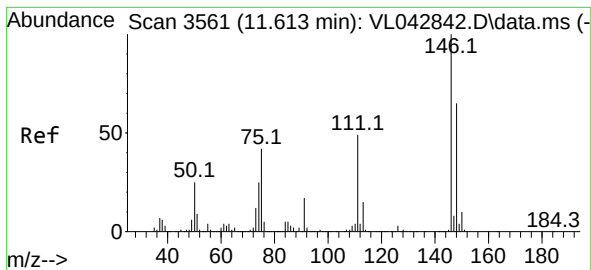


#74
1,2,4-Trimethylbenzene
Concen: 13.003 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



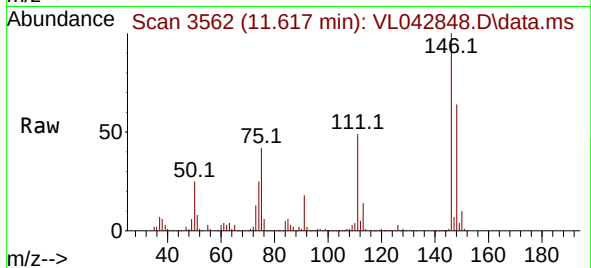
Tgt Ion:105 Resp: 691709
Ion Ratio Lower Upper
105 100
120 48.3 39.8 59.6
91 62.2 54.2 81.4
77 23.2 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 13.321 ppbv
RT: 11.617 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

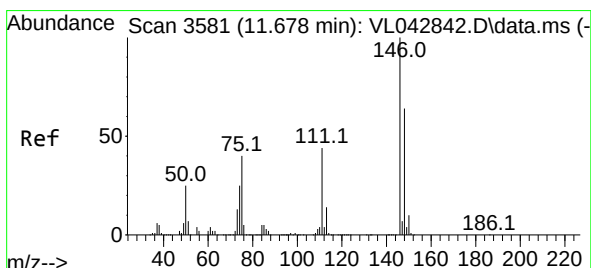
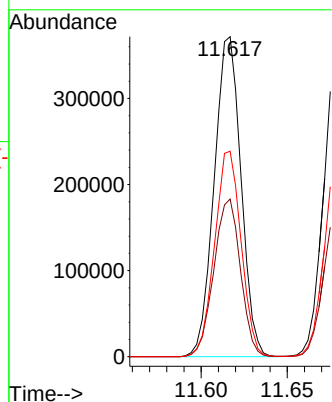
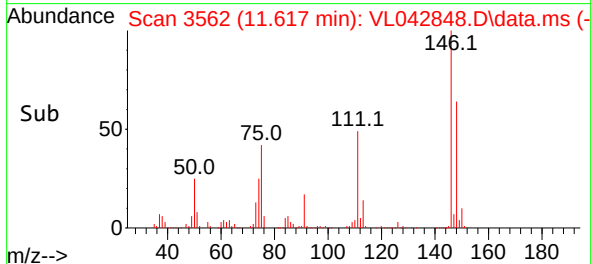
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



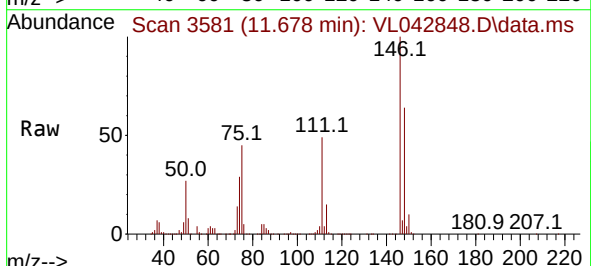
Tgt Ion:146 Resp: 402850
Ion Ratio Lower Upper
146 100
111 48.9 23.9 71.7
148 63.5 31.4 94.0

Manual Integrations
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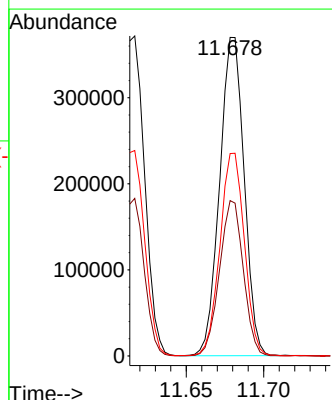
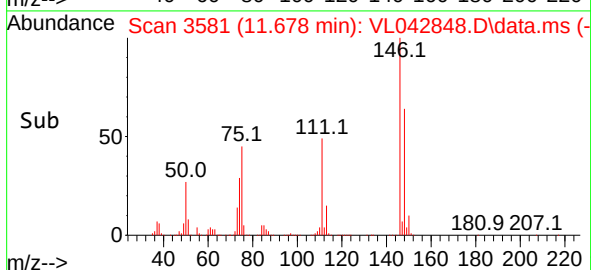
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

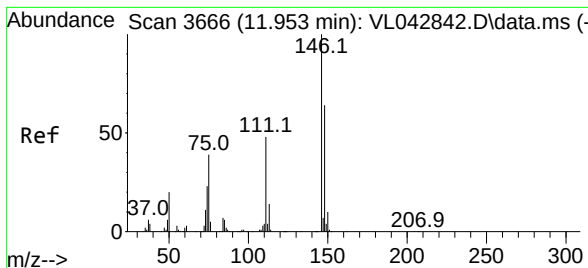


#76
1,4-Dichlorobenzene
Concen: 13.314 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion:146 Resp: 407214
Ion Ratio Lower Upper
146 100
111 47.5 22.7 68.1
148 63.8 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 13.031 ppbv

RT: 11.953 min Scan# 30

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:146 Resp: 385860

Ion Ratio Lower Upper

146 100

111 50.2 24.6 74.0

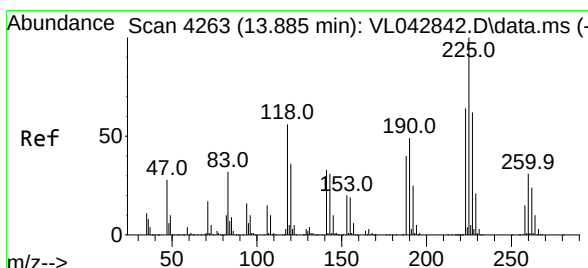
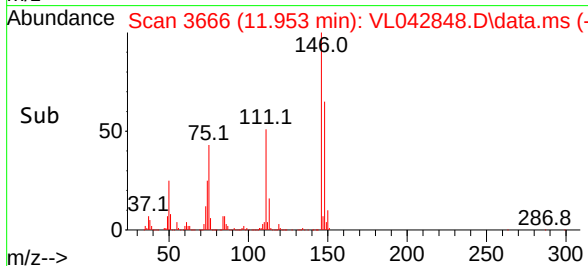
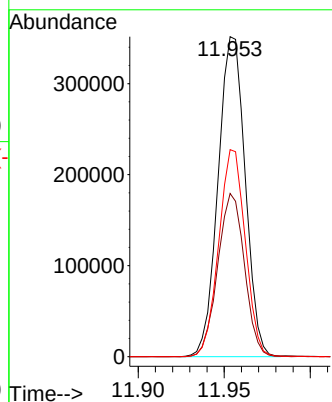
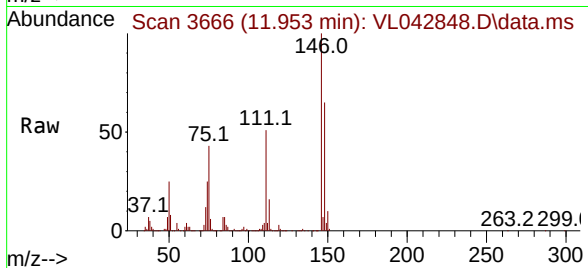
148 63.3 32.0 96.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 11.602 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

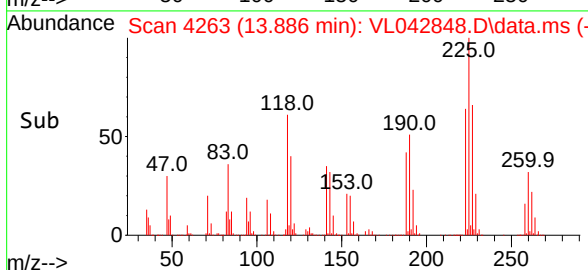
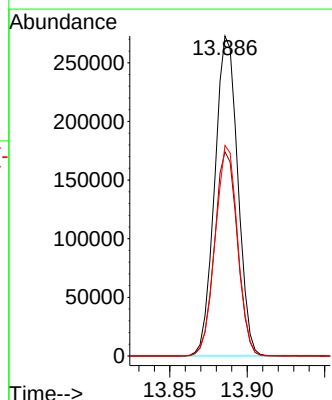
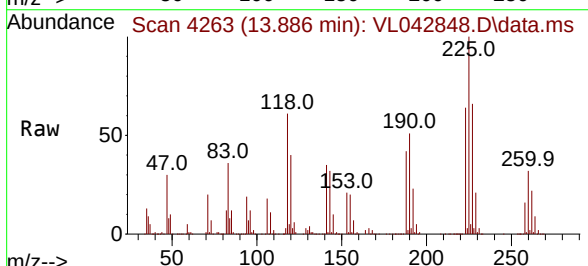
Tgt Ion:225 Resp: 281581

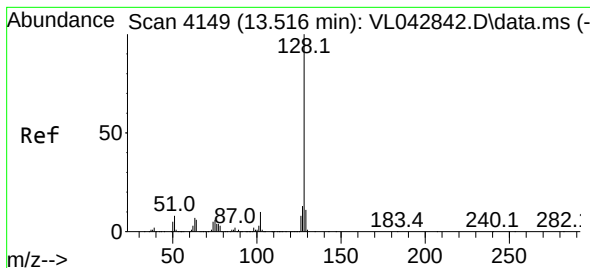
Ion Ratio Lower Upper

225 100

223 63.6 51.4 77.2

227 64.2 51.9 77.9





#79

Naphthalene

Concen: 13.837 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

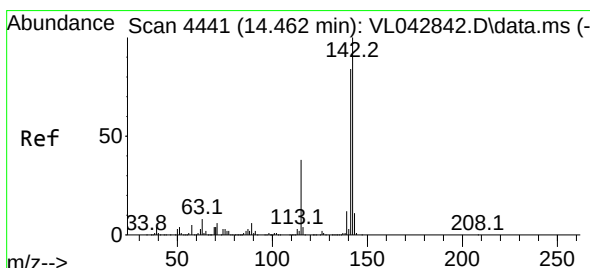
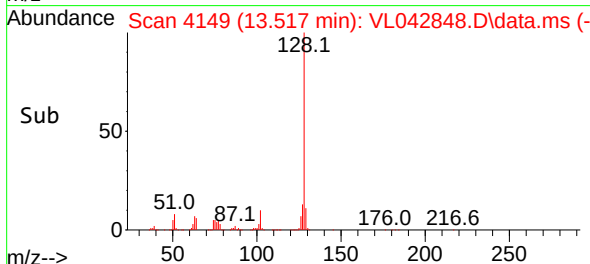
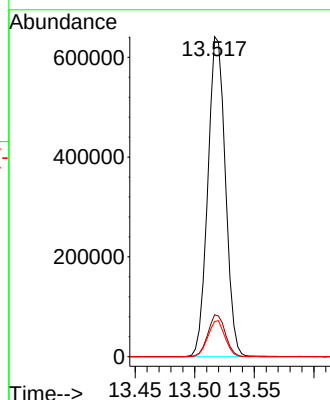
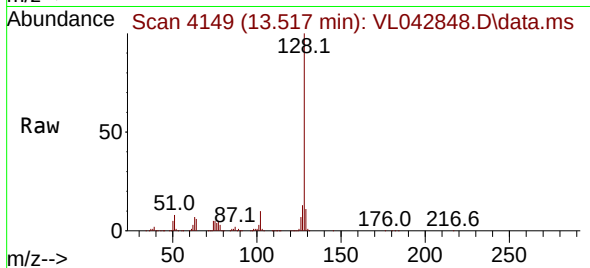
Tgt Ion:128 Resp: 658732

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	11.0	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80

Naphthalene,2-methyl-

Concen: 14.042 ppbv

RT: 14.462 min Scan# 4441

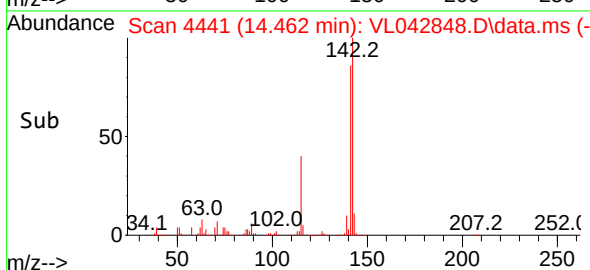
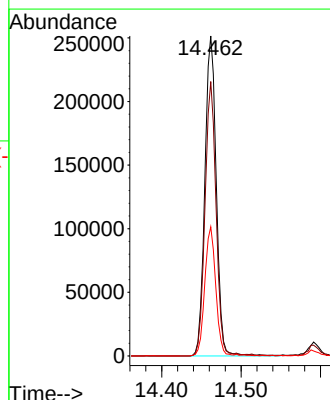
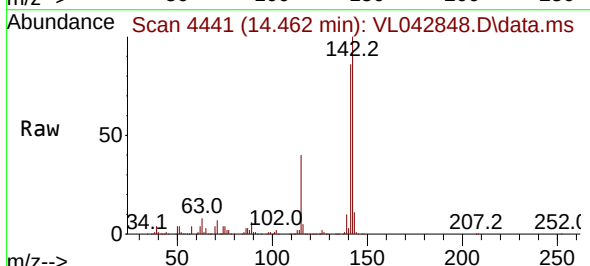
Delta R.T. 0.000 min

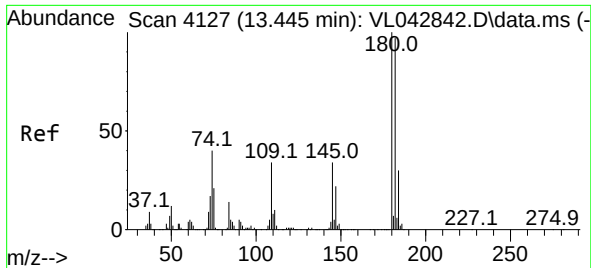
Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:142 Resp: 251753

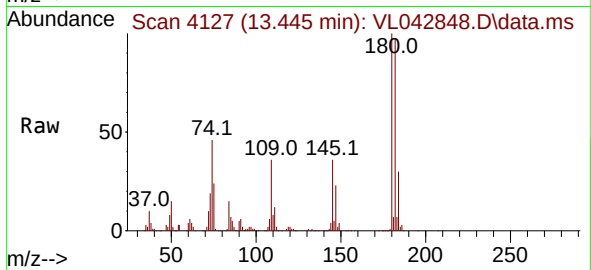
Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.0	100.6
115	39.3	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 13.599 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

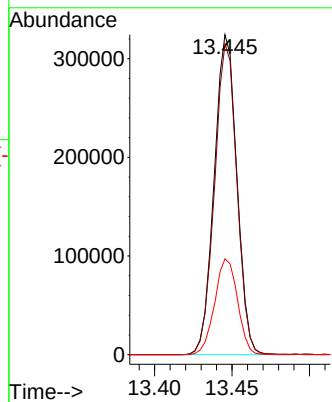
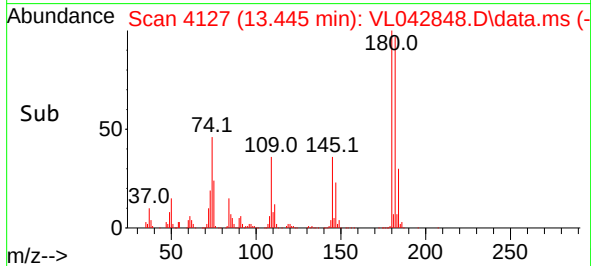
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 32964
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.9 115.3
 184 30.3 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 252268 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

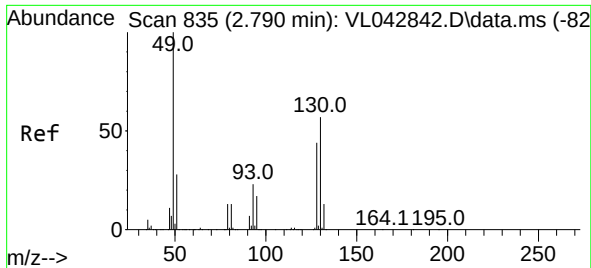
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

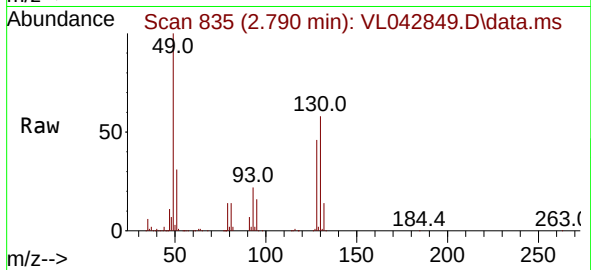
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.561	91	865106m	18.754	ppbv	
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

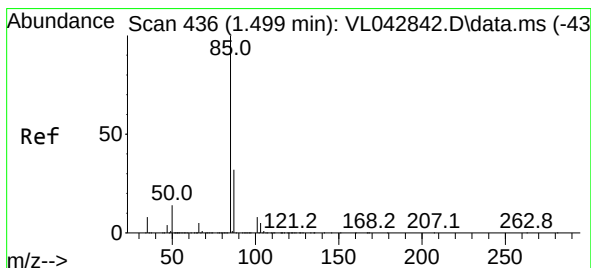
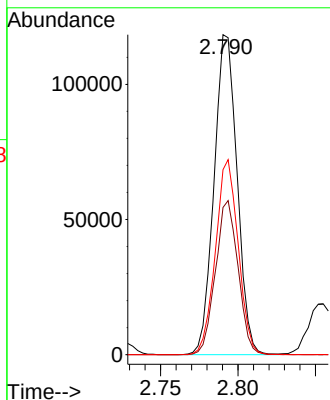
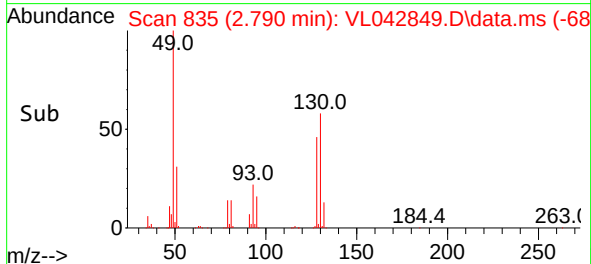
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 49 Resp: 122486
Ion Ratio Lower Upper
49 100
128 47.2 23.7 71.1
130 60.0 30.6 91.6

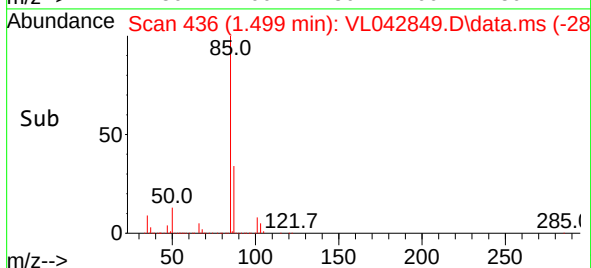
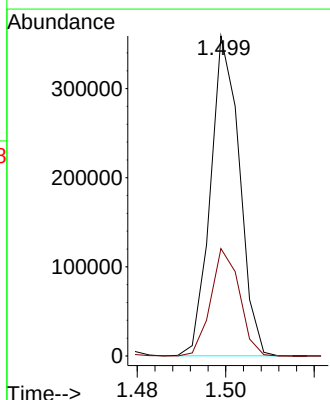
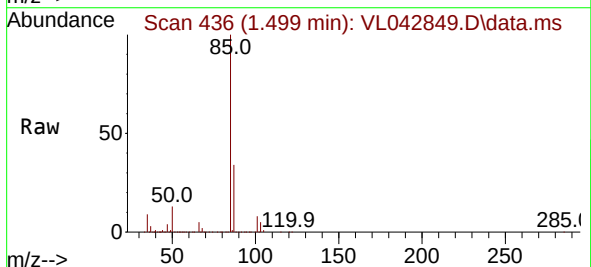
Manual Integrations
APPROVED

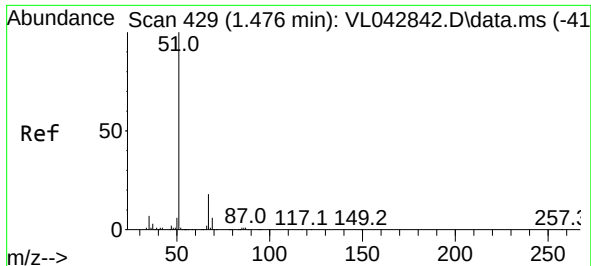
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 9.105 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

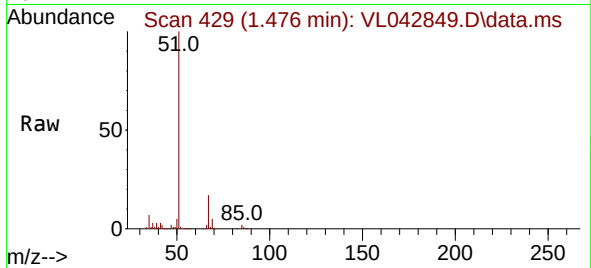
Tgt Ion: 85 Resp: 163446
Ion Ratio Lower Upper
85 100
87 33.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

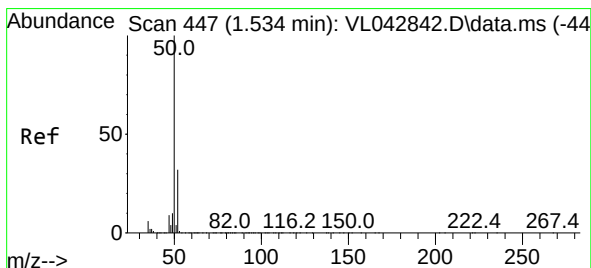
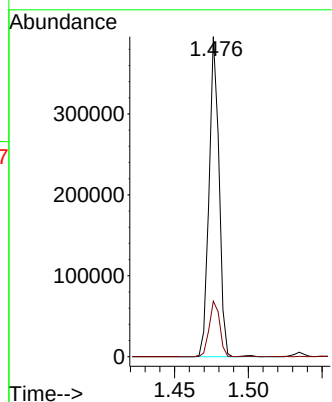
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 51 Resp: 185078
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3

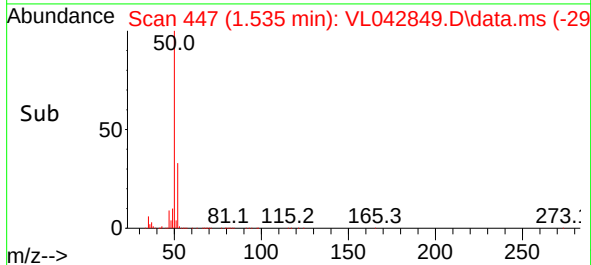
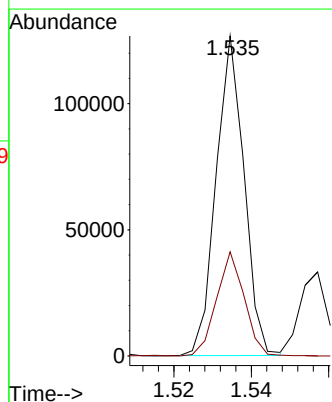
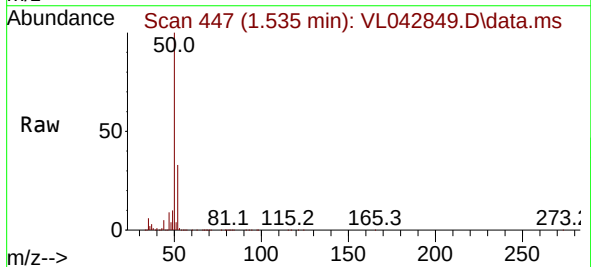
Manual Integrations
APPROVED

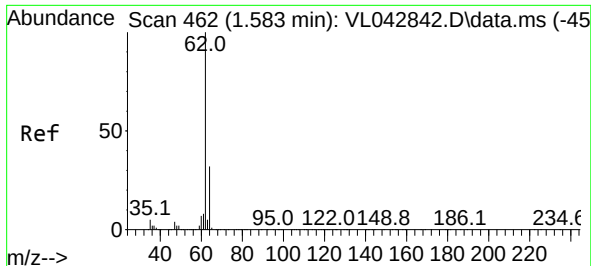
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#4
Chloromethane
Concen: 8.784 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 50 Resp: 63634
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9





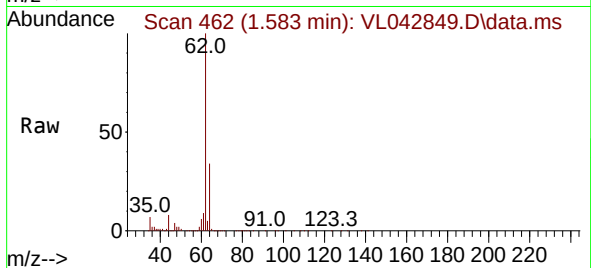
#5
 Vinyl Chloride
 Concen: 8.232 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

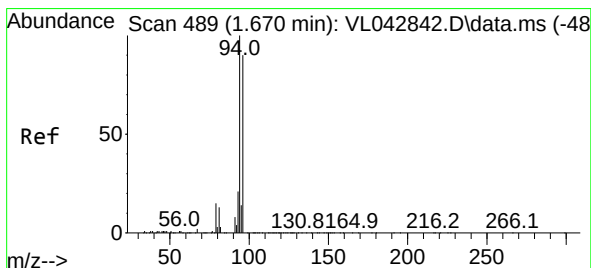
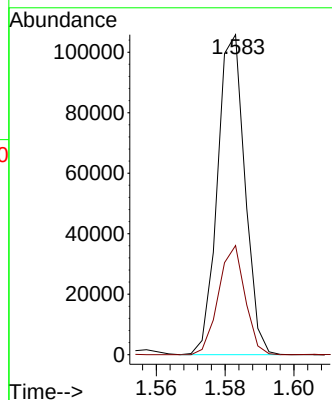
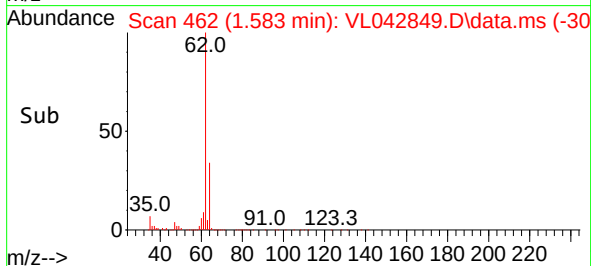


Tgt Ion: 62 Resp: 58729
 Ion Ratio Lower Upper
 62 100
 64 34.1 25.4 38.2

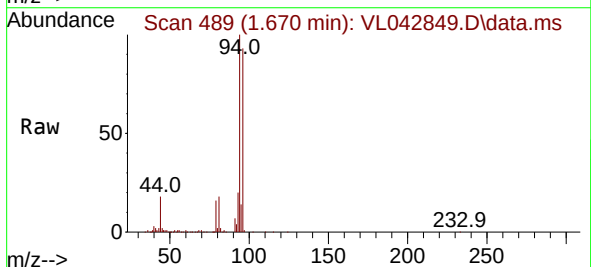
Manual Integrations

APPROVED

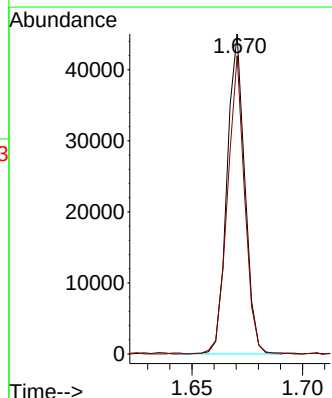
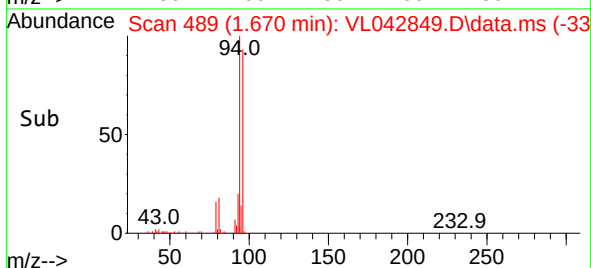
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

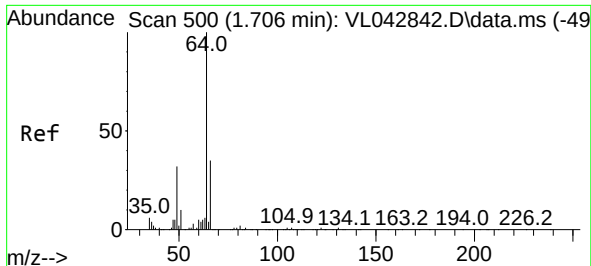


#6
 Bromomethane
 Concen: 8.801 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



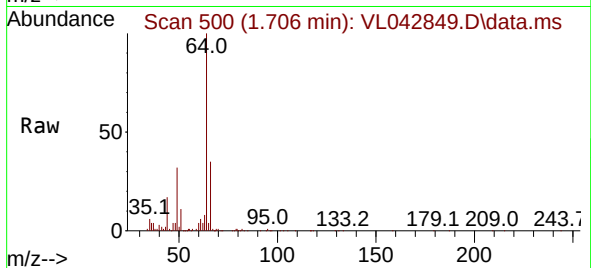
Tgt Ion: 94 Resp: 25105
 Ion Ratio Lower Upper
 94 100
 96 92.9 72.1 108.1





#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

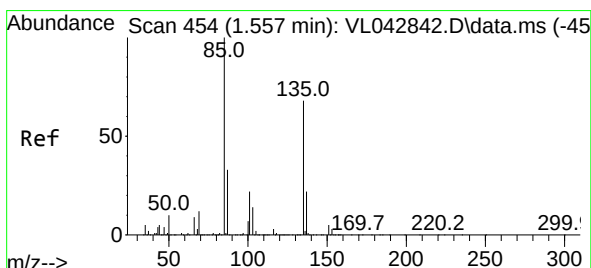
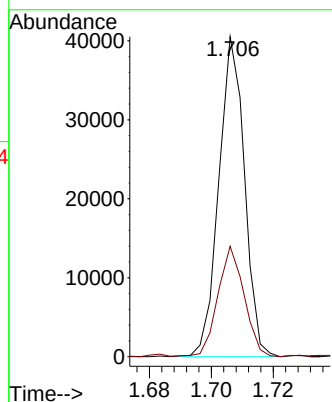
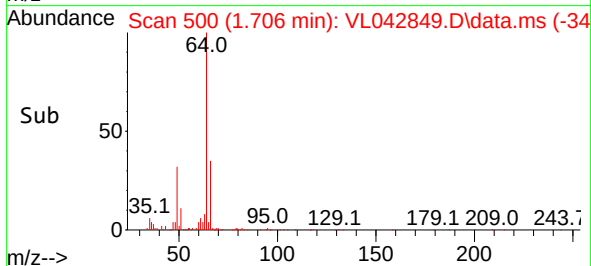
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



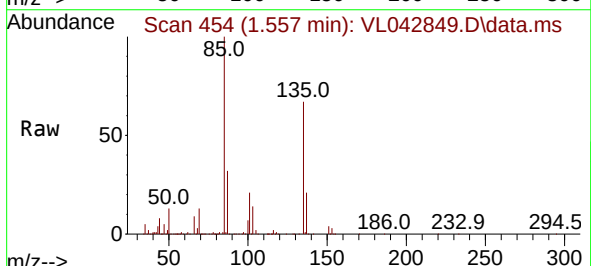
Tgt Ion: 64 Resp: 23293
Ion Ratio Lower Upper
64 100
66 34.5 28.6 42.8

Manual Integrations
APPROVED

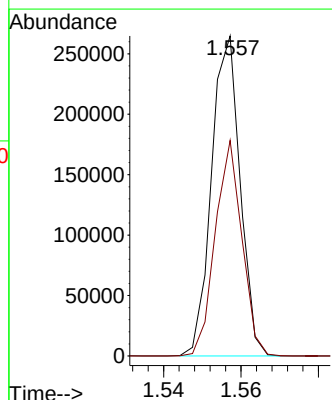
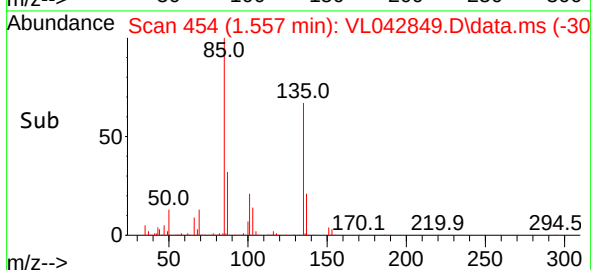
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

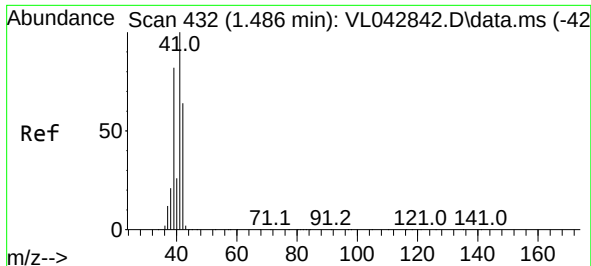


#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



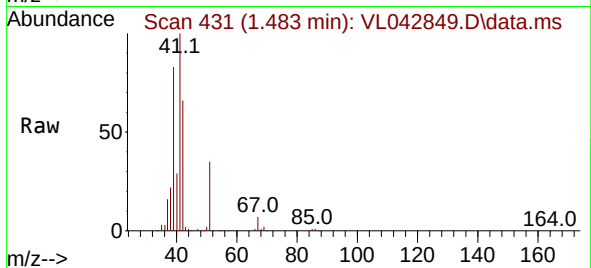
Tgt Ion: 85 Resp: 135845
Ion Ratio Lower Upper
85 100
135 62.9 51.2 76.8





#9
 Propene
 Concen: 8.922 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

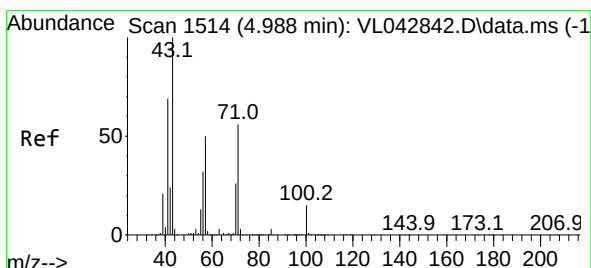
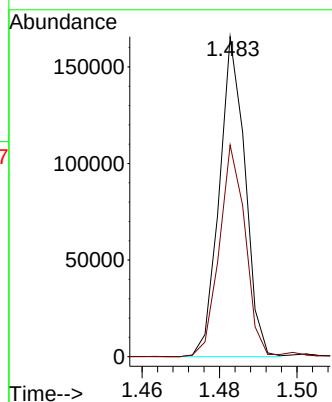
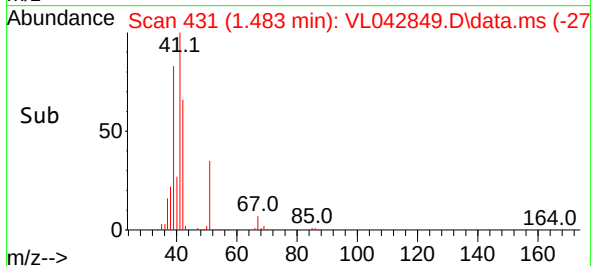
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



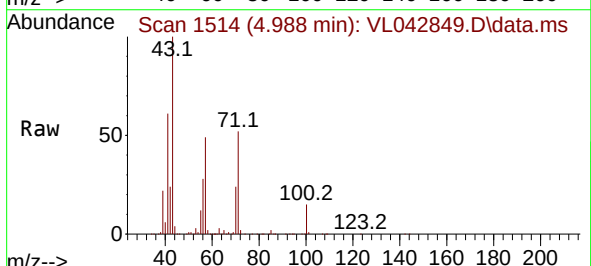
Tgt Ion: 41 Resp: 7645
 Ion Ratio Lower Upper
 41 100
 42 68.4 53.0 79.4

Manual Integrations
 APPROVED

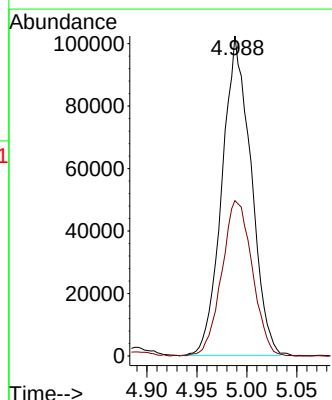
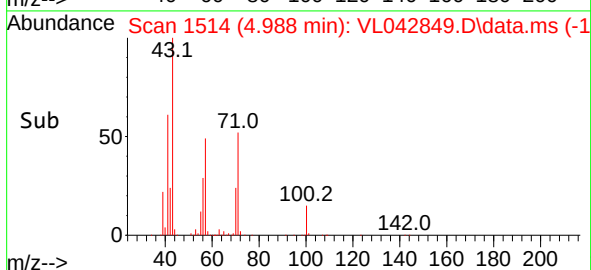
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

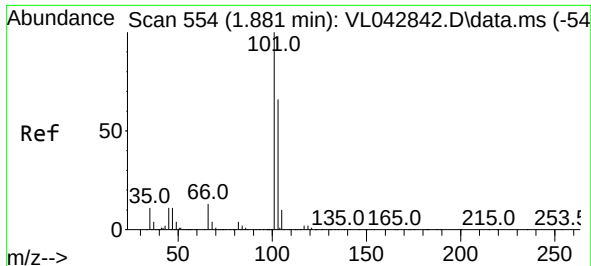


#10
 Heptane
 Concen: 8.990 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



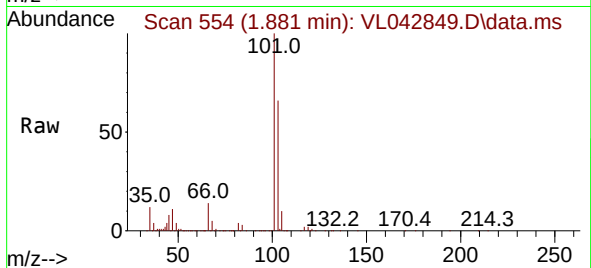
Tgt Ion: 43 Resp: 206333
 Ion Ratio Lower Upper
 43 100
 57 51.2 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 8.707 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

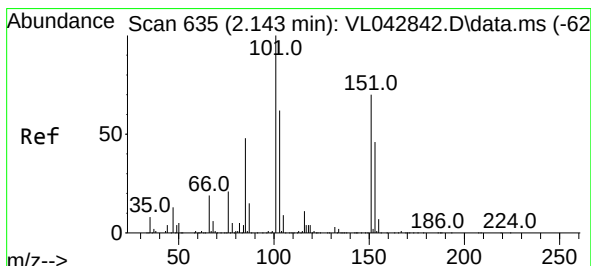
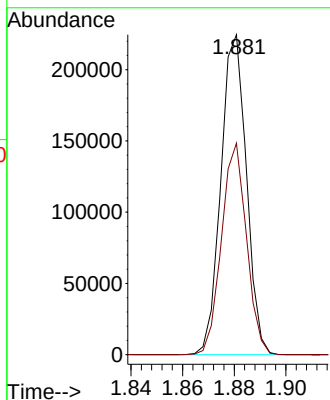
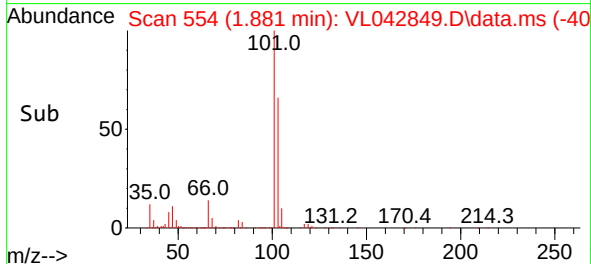
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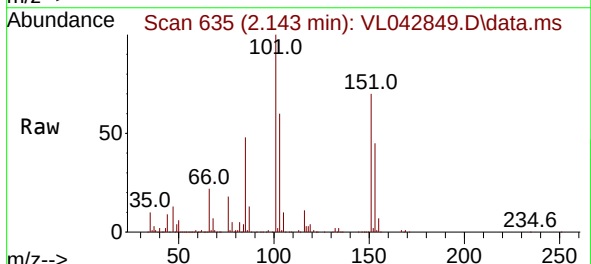
Tgt Ion:101 Resp: 15421
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.5 78.7

Manual Integrations
 APPROVED

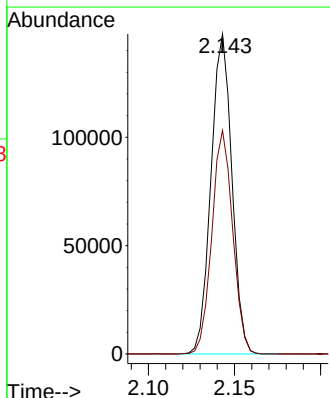
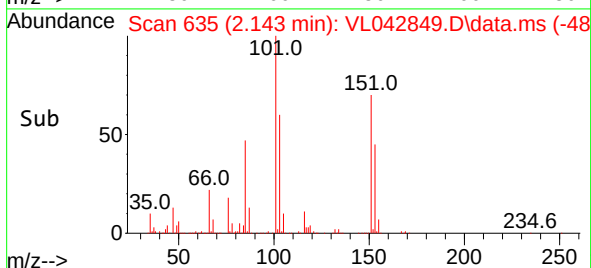
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

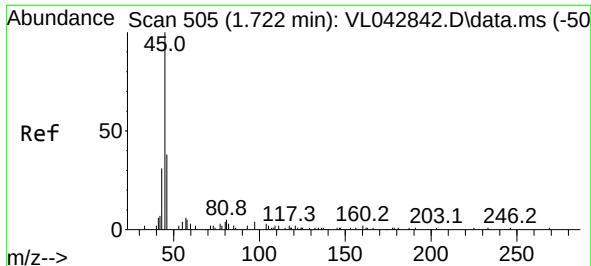


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.824 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



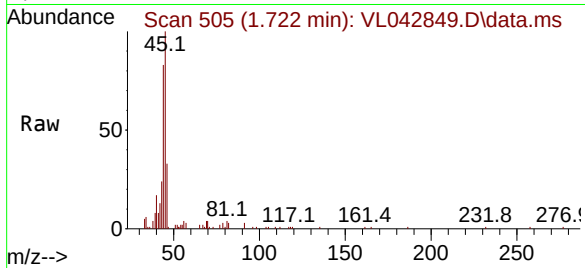
Tgt Ion:101 Resp: 124558
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6





#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

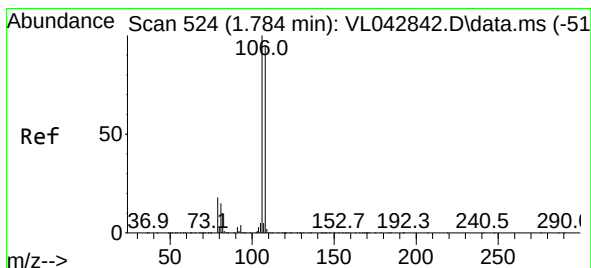
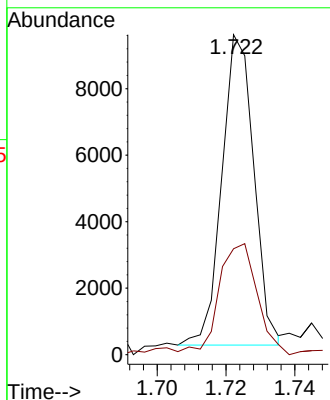
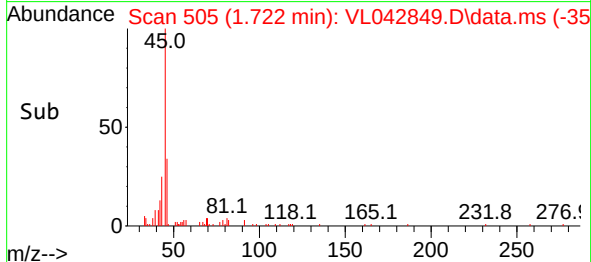
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ClientSampleId :
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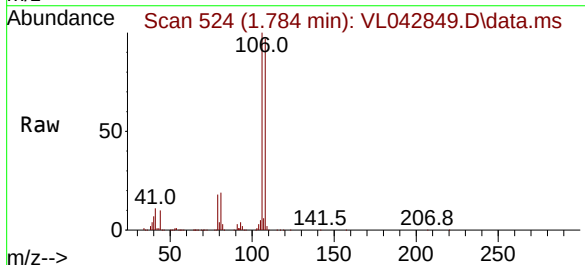
Tgt Ion: 45 Resp: 6010
Ion Ratio Lower Upper
45 100
46 46.2 17.5 69.9

Manual Integrations
APPROVED

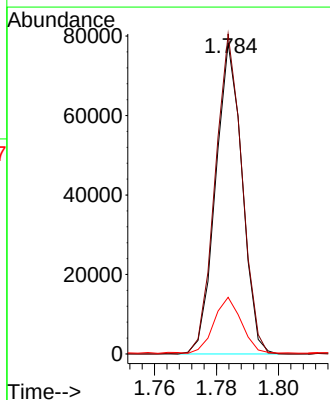
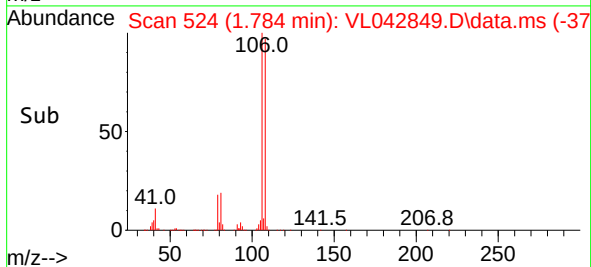
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

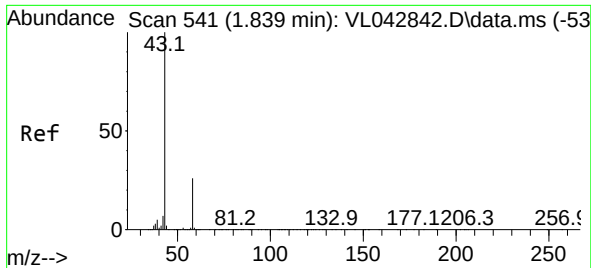


#14
Bromoethene
Concen: 9.105 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



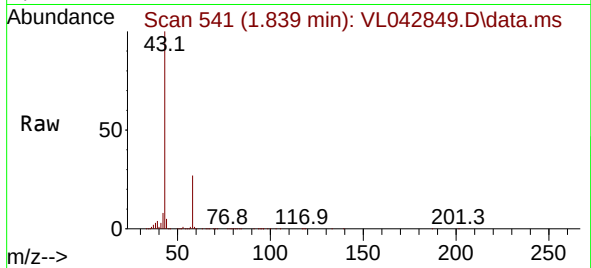
Tgt Ion:108 Resp: 46528
Ion Ratio Lower Upper
108 100
106 104.1 85.1 127.7
79 19.8 16.3 24.5





#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

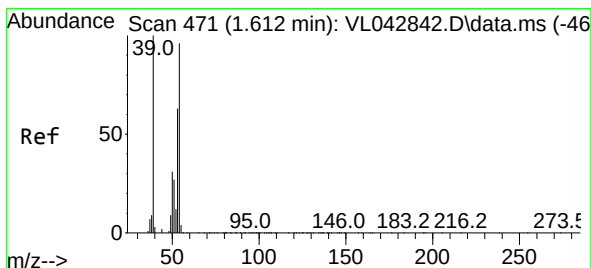
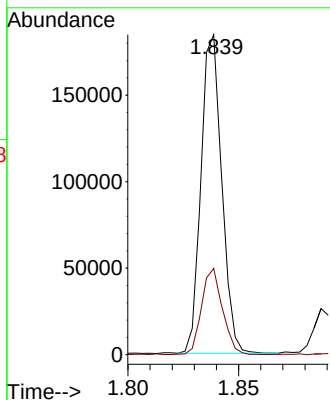
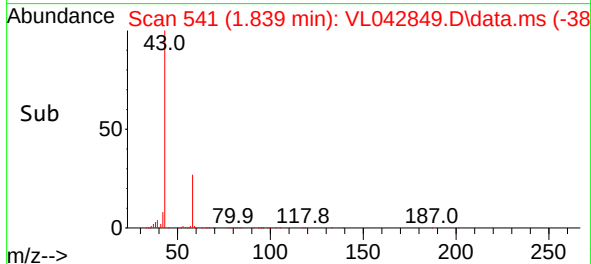
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



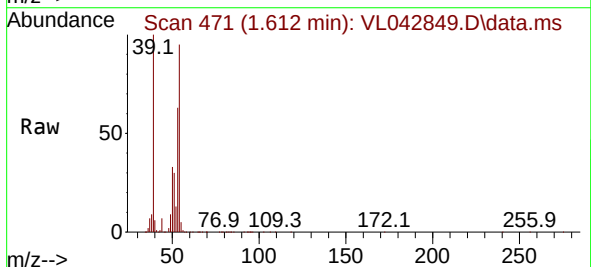
Tgt Ion: 43 Resp: 119723
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

Manual Integrations
APPROVED

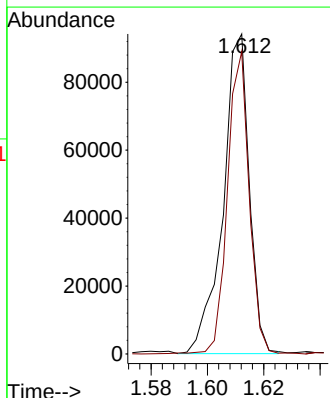
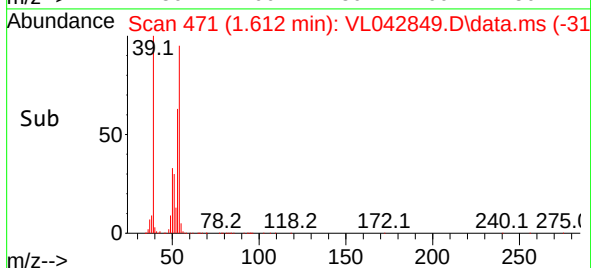
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

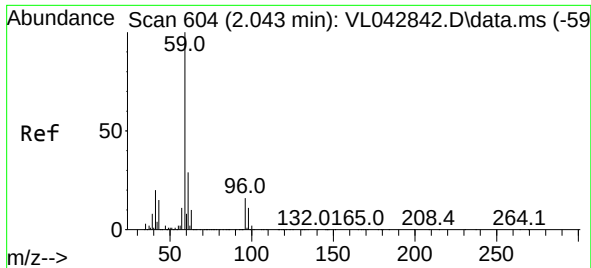


#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



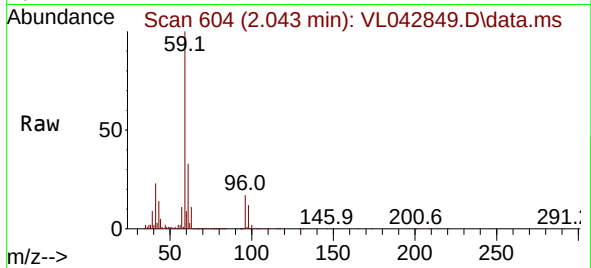
Tgt Ion: 39 Resp: 60853
Ion Ratio Lower Upper
39 100
54 78.9 63.6 95.4





#17
tert-Butyl alcohol
Concen: 8.663 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

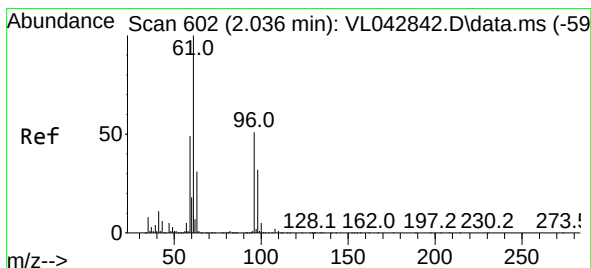
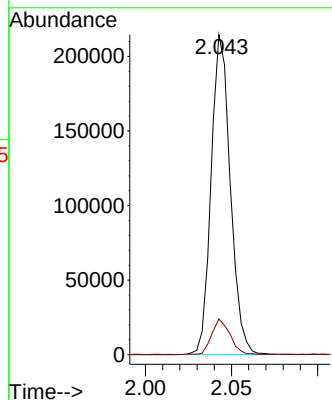
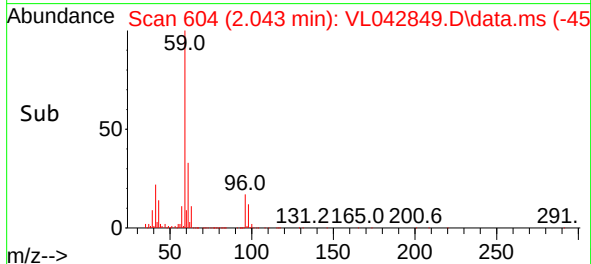
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



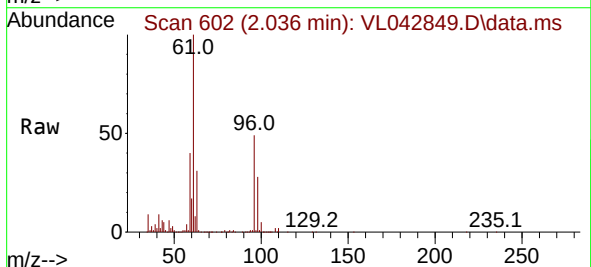
Tgt Ion: 59 Resp: 16645
Ion Ratio Lower Upper
59 100
57 10.7 9.0 13.4

Manual Integrations
APPROVED

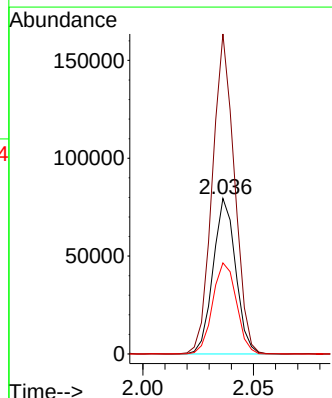
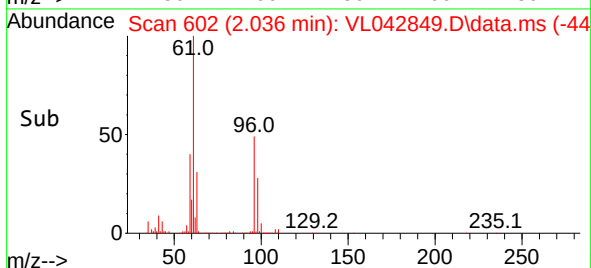
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

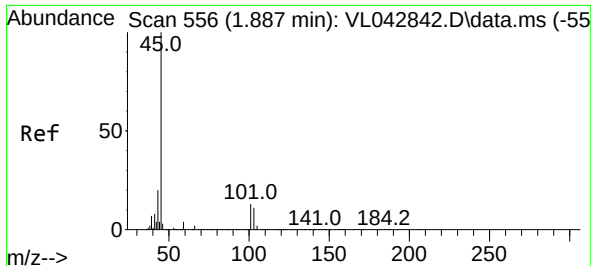


#18
1,1-Dichloroethene
Concen: 9.087 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion: 96 Resp: 56397
Ion Ratio Lower Upper
96 100
61 205.8 158.2 237.4
98 58.5 50.6 76.0





#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

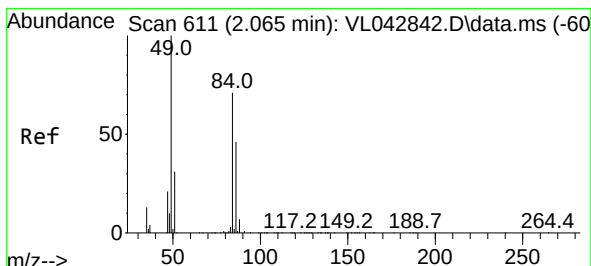
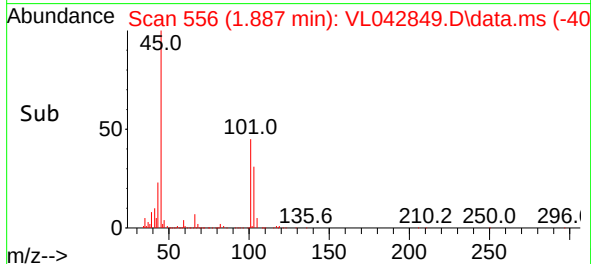
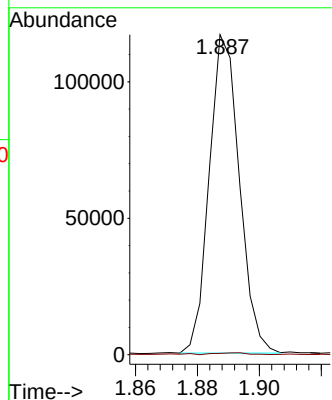
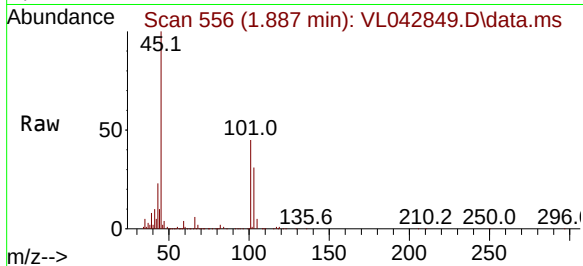
ClientSampleId :

ICVVL081325

Tgt Ion: 45 Resp: 78832
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

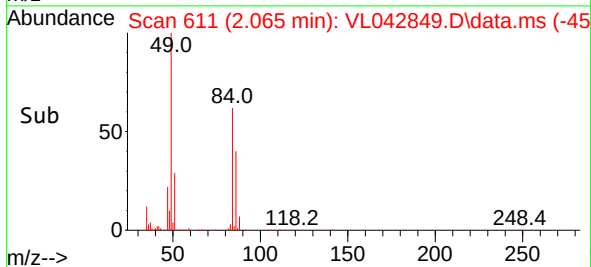
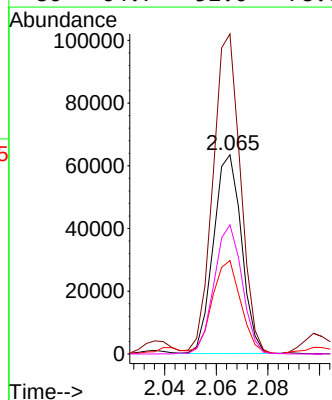
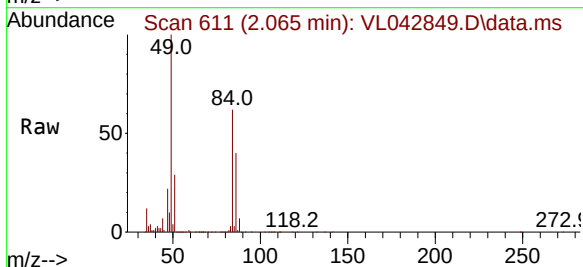
Manual Integrations
APPROVED

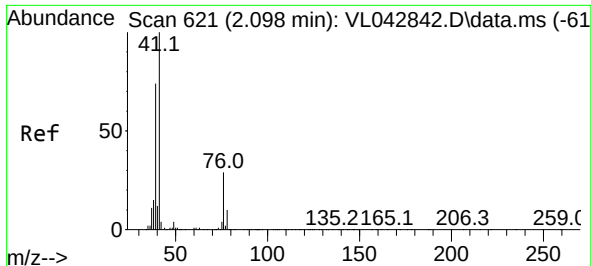
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 7.041 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

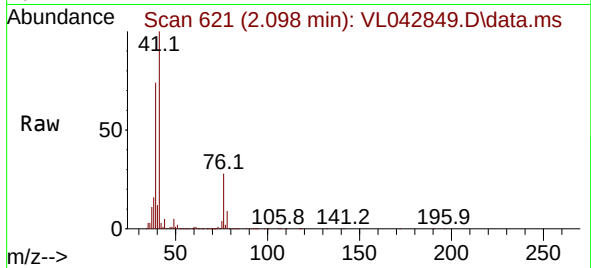
Tgt Ion: 84 Resp: 47793
Ion Ratio Lower Upper
84 100
49 160.7 112.3 168.5
51 46.9 36.0 54.0
86 64.7 52.0 78.0





#21
 Allyl Chloride
 Concen: 8.956 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

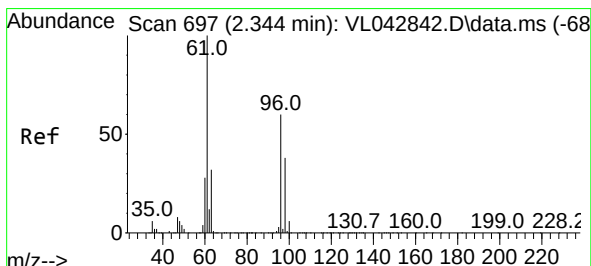
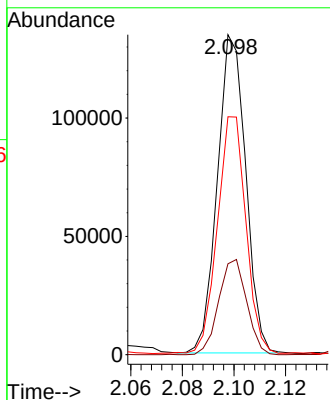
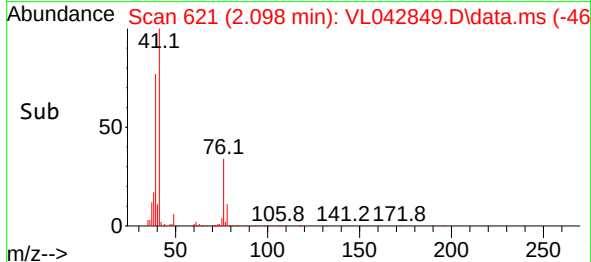
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



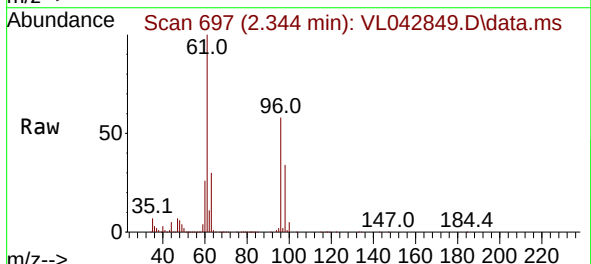
Tgt Ion: 41 Resp: 102514
 Ion Ratio Lower Upper
 41 100
 76 29.5 23.9 35.9
 39 76.1 57.8 86.6

Manual Integrations
 APPROVED

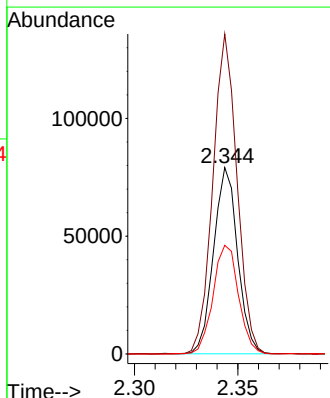
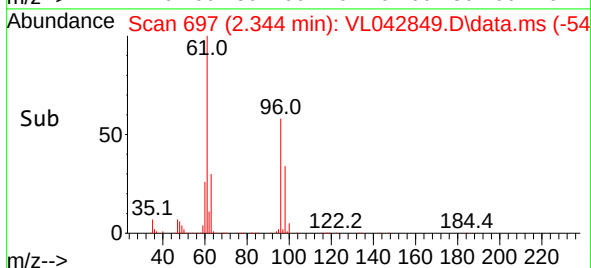
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

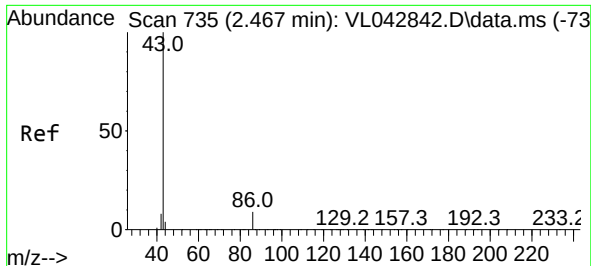


#22
 trans-1,2-Dichloroethene
 Concen: 8.904 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



Tgt Ion: 96 Resp: 63932
 Ion Ratio Lower Upper
 96 100
 61 171.8 132.6 199.0
 98 58.3 50.0 75.0





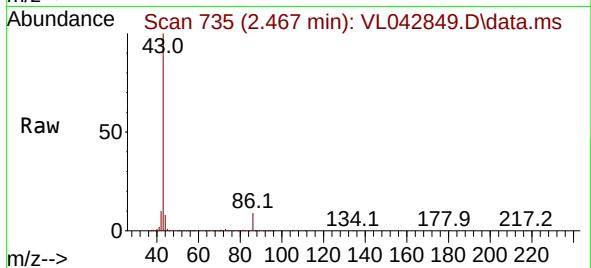
#23
 Vinyl Acetate
 Concen: 8.891 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

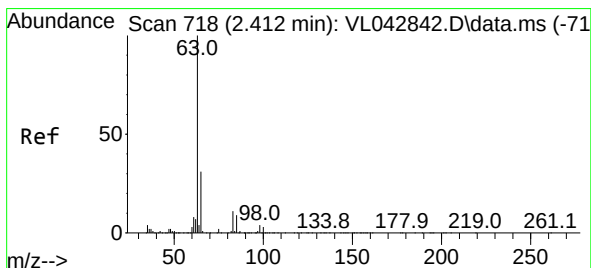
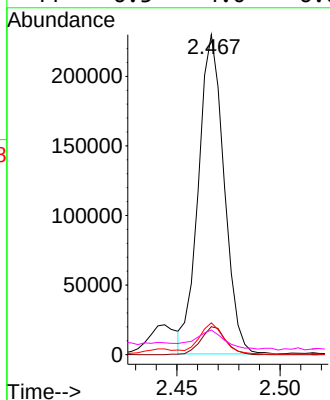
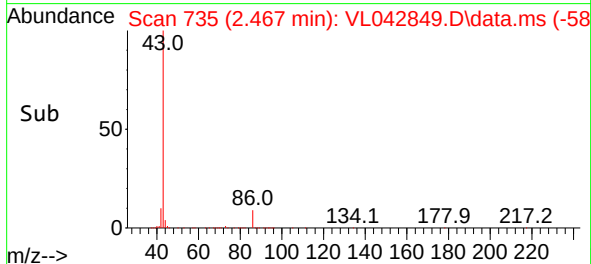
ICVVL081325



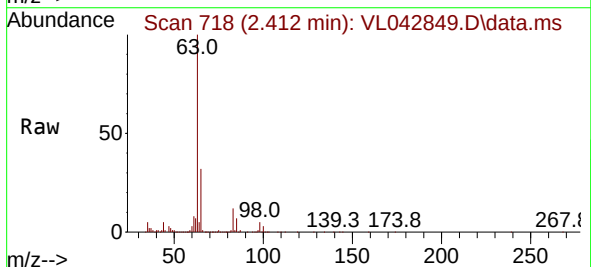
Tgt Ion: 43 Resp: 19808
 Ion Ratio Lower Upper
 43 100
 86 8.8 6.6 9.8
 42 9.8 7.0 10.6
 44 6.3 4.0 6.0#

Manual Integrations
 APPROVED

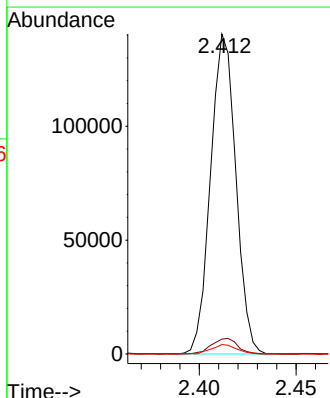
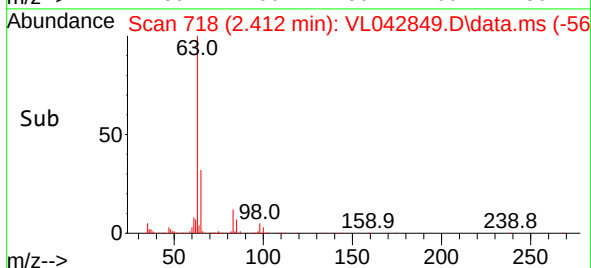
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

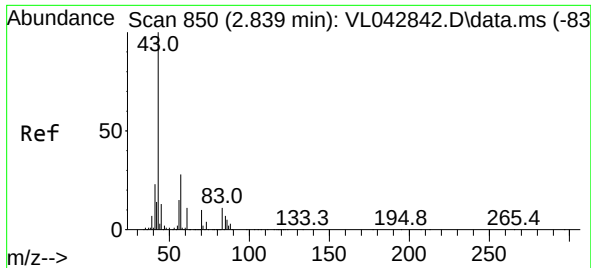


#24
 1,1-Dichloroethane
 Concen: 8.903 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



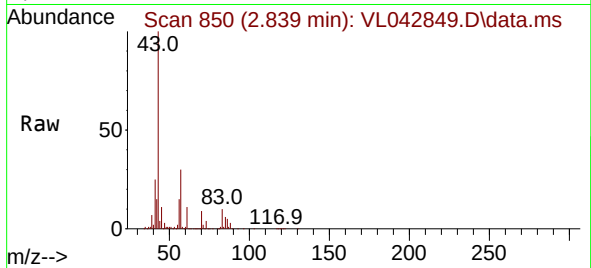
Tgt Ion: 63 Resp: 127660
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.1 6.5
 100 3.0 1.7 5.1





#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

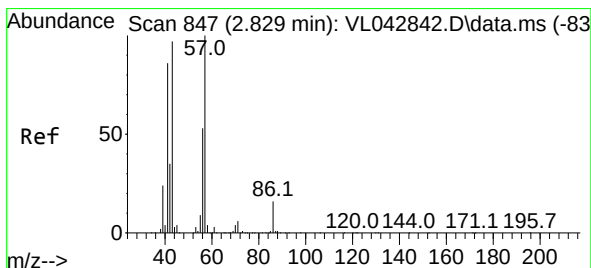
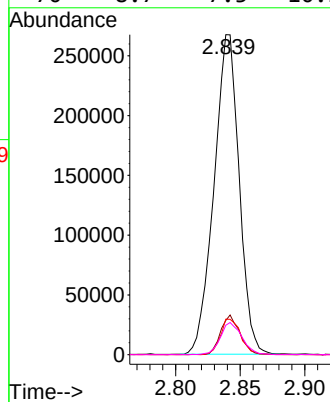
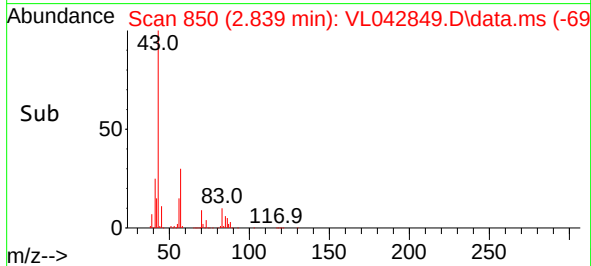
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



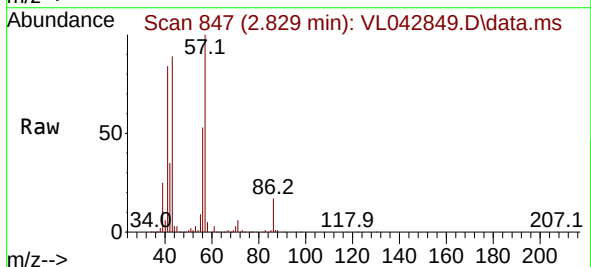
Tgt Ion: 43 Resp: 362325
Ion Ratio Lower Upper
43 100
45 9.5 8.1 12.1
61 9.1 7.4 11.2
70 8.7 7.3 10.9

Manual Integrations
APPROVED

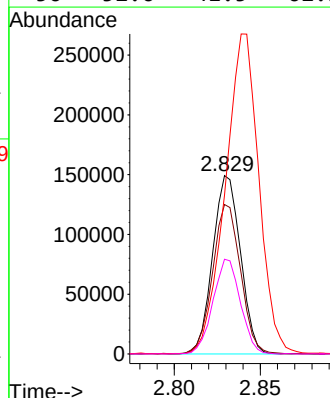
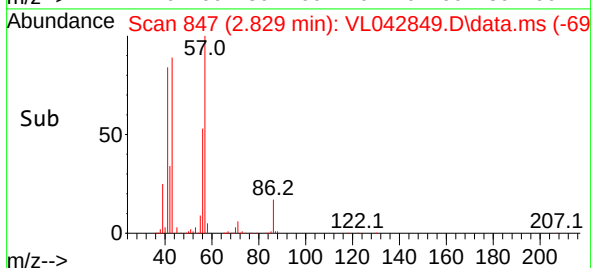
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

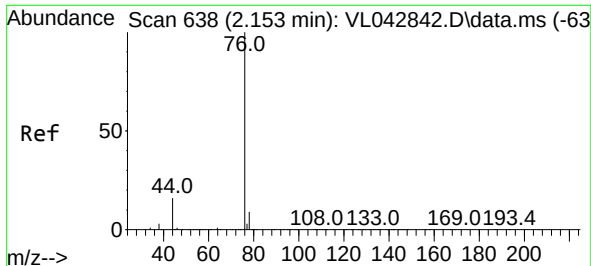


#26
Hexane
Concen: 9.246 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



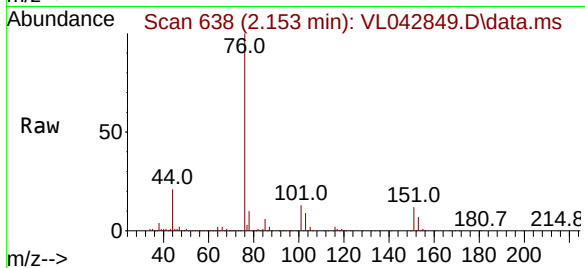
Tgt Ion: 57 Resp: 167364
Ion Ratio Lower Upper
57 100
41 85.0 68.6 103.0
43 218.2 168.5 252.7
56 52.6 41.5 62.3





#27
Carbon Disulfide
Concen: 8.841 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

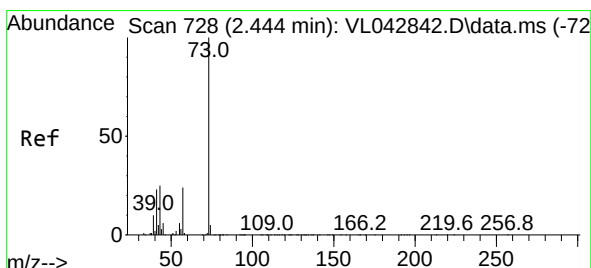
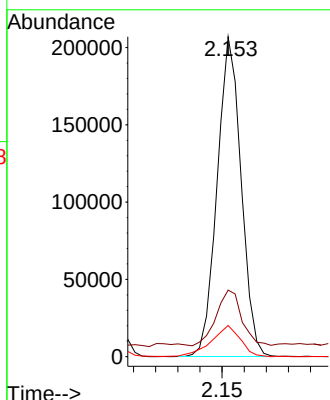
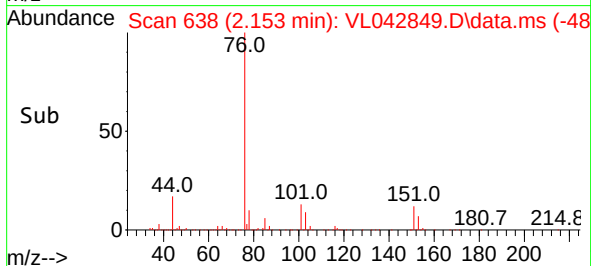
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



Tgt Ion: 76 Resp: 155729
Ion Ratio Lower Upper
76 100
44 19.2 15.9 23.9
78 11.9 9.5 14.3

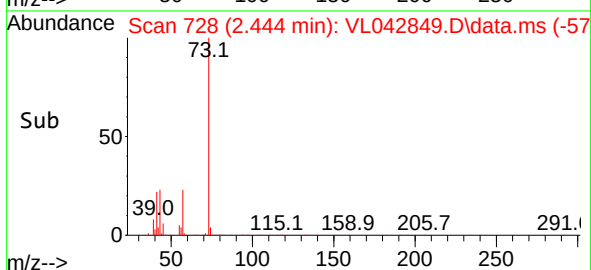
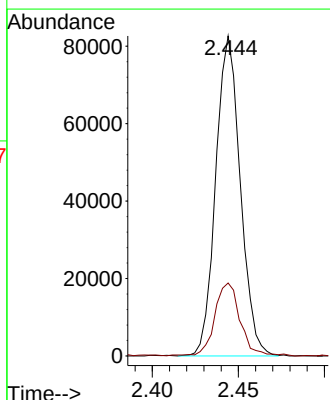
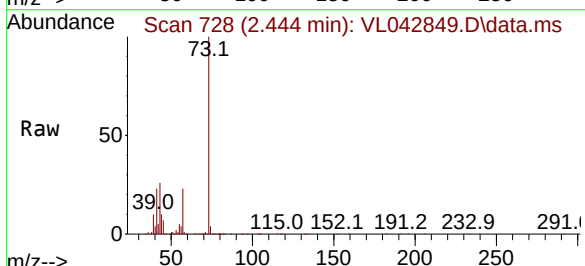
Manual Integrations
APPROVED

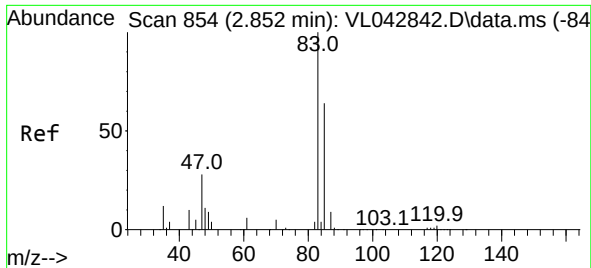
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#28
Methyl tert-Butyl Ether
Concen: 8.898 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

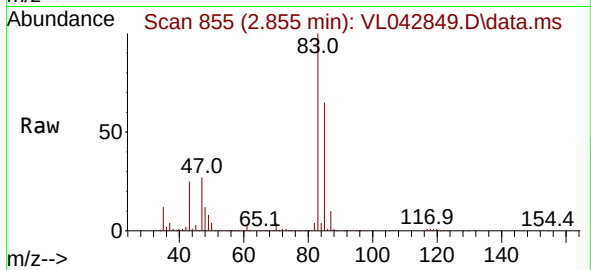
Tgt Ion: 73 Resp: 82126
Ion Ratio Lower Upper
73 100
57 22.9 21.6 32.4





#29
Chloroform
Concen: 9.377 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

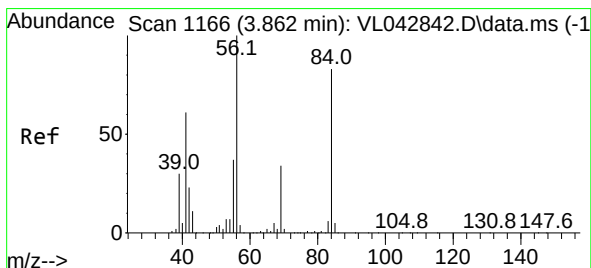
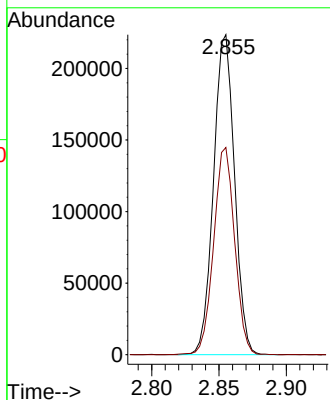
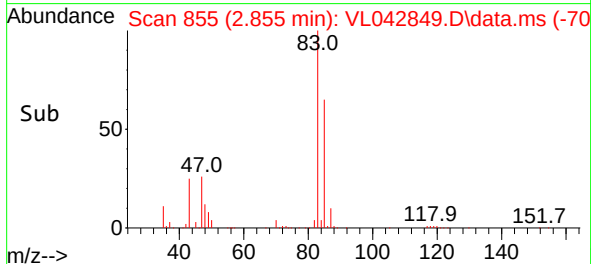
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



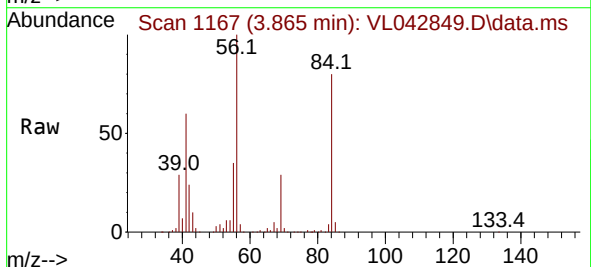
Tgt Ion: 83 Resp: 242320
Ion Ratio Lower Upper
83 100
85 64.8 51.1 76.7

Manual Integrations
APPROVED

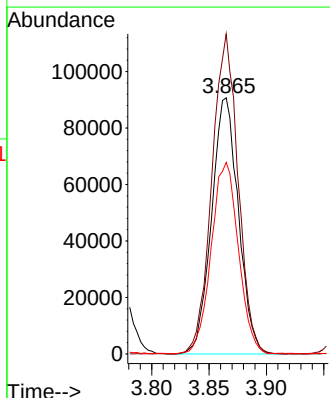
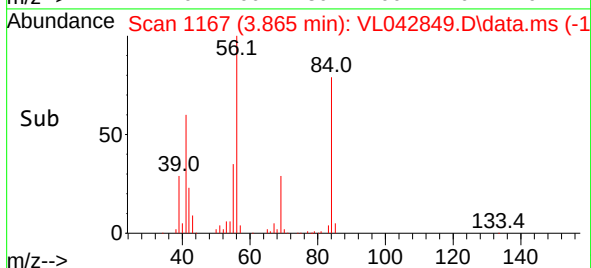
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

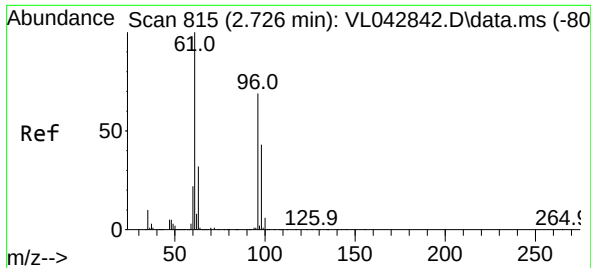


#30
Cyclohexane
Concen: 9.289 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



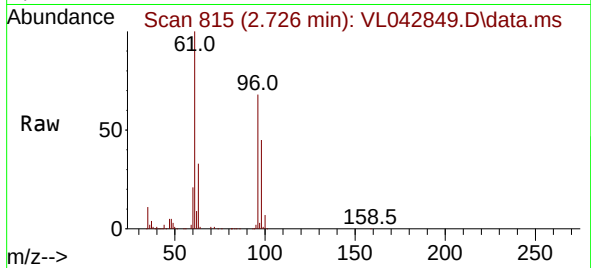
Tgt Ion: 84 Resp: 147417
Ion Ratio Lower Upper
84 100
56 122.1 98.8 148.2
41 75.8 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 9.196 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

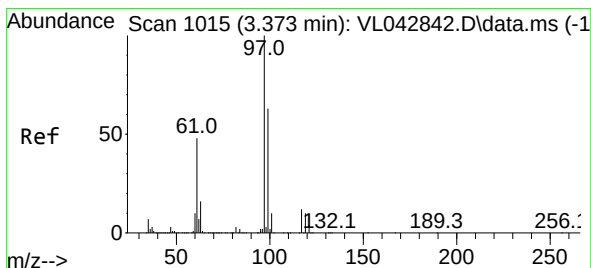
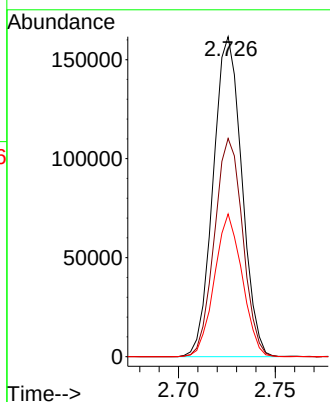
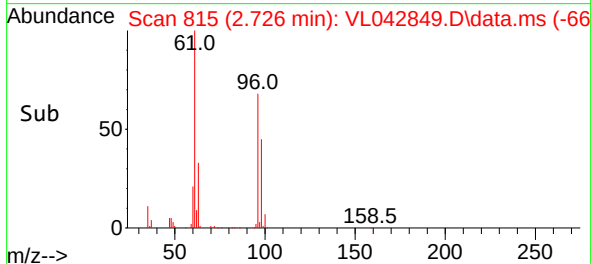
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



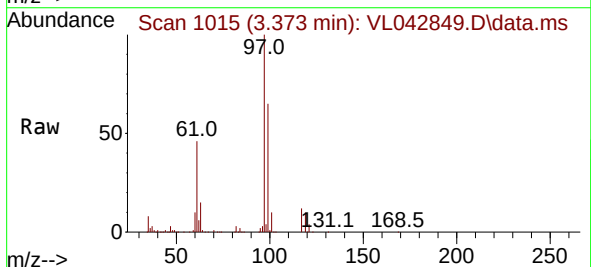
Tgt Ion: 61 Resp: 166268
 Ion Ratio Lower Upper
 61 100
 96 68.2 55.0 82.6
 98 44.5 34.3 51.5

Manual Integrations
 APPROVED

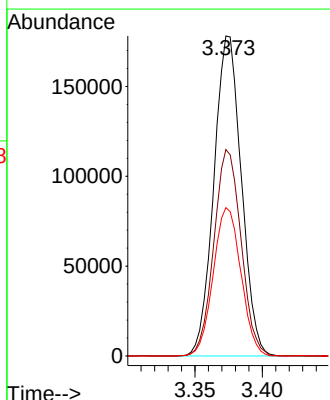
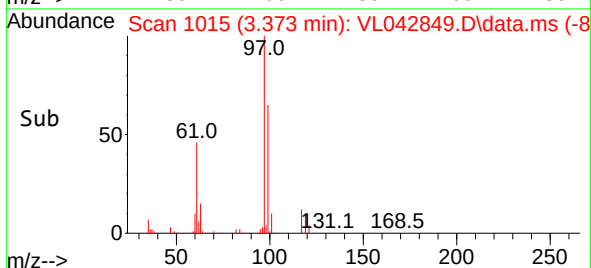
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

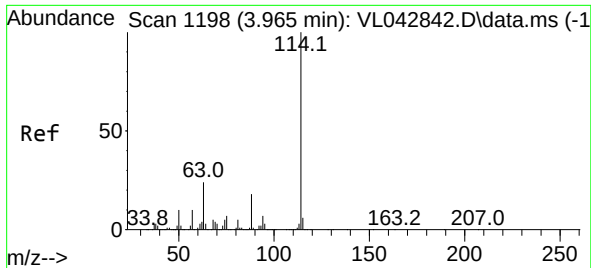


#32
 1,1,1-Trichloroethane
 Concen: 9.256 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



Tgt Ion: 97 Resp: 252813
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 46.7 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion:114 Resp: 374448

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

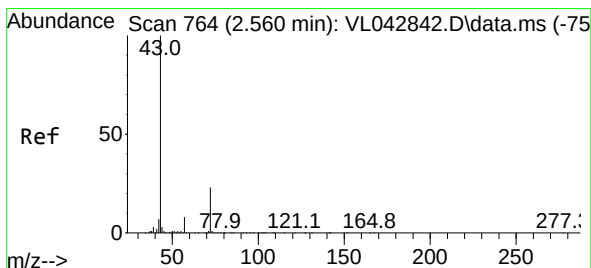
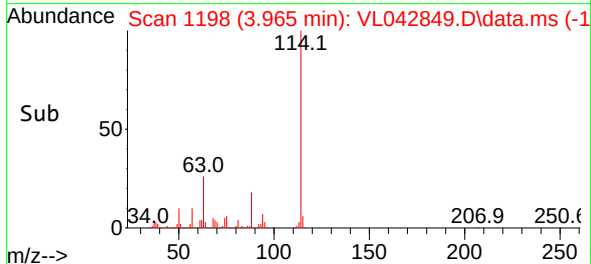
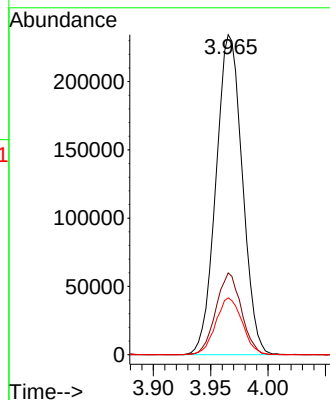
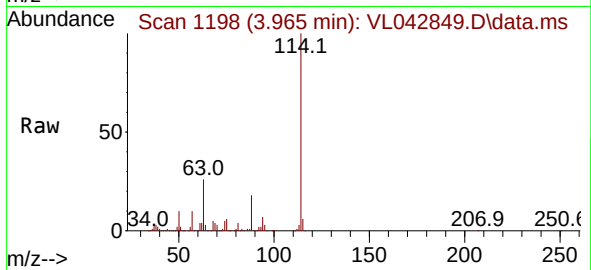
88 17.9 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 9.135 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042849.D

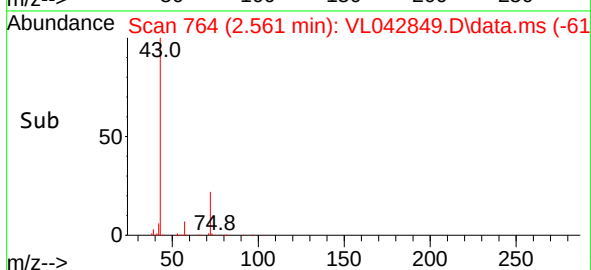
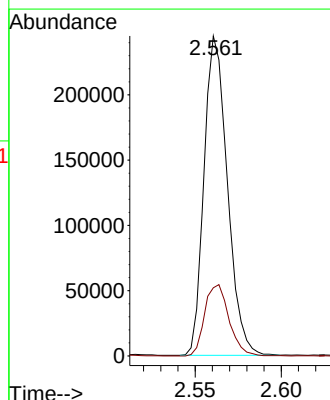
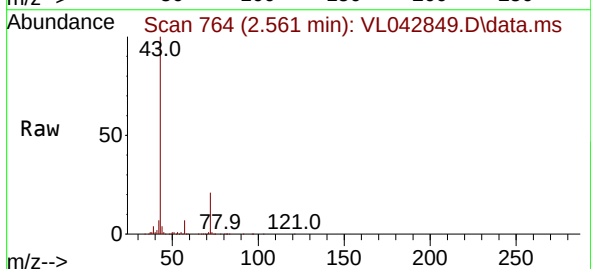
Acq: 13 Aug 2025 12:56

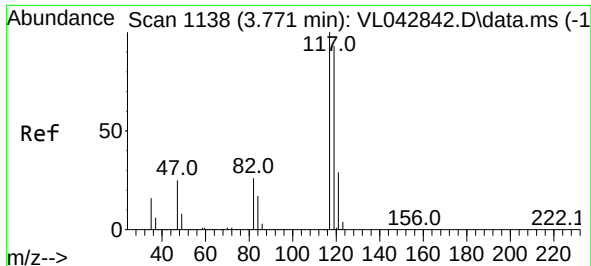
Tgt Ion: 43 Resp: 230961

Ion Ratio Lower Upper

43 100

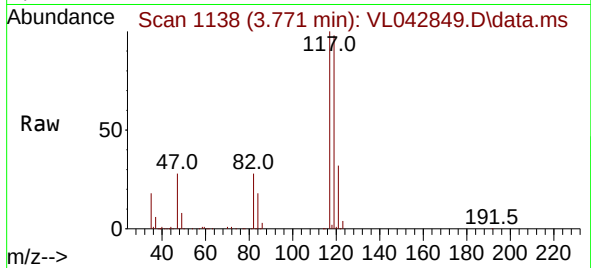
72 23.4 18.6 28.0





#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

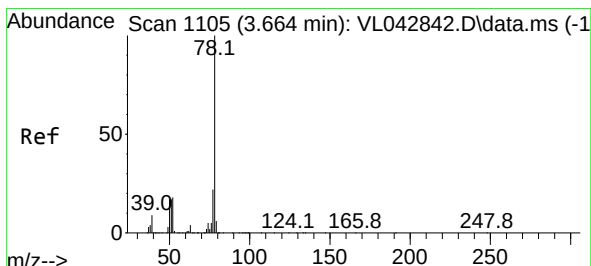
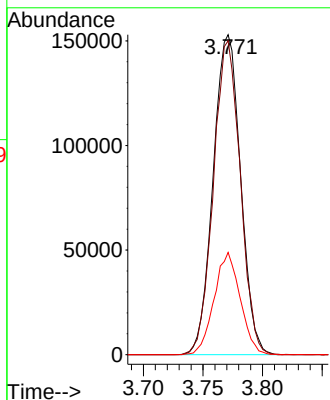
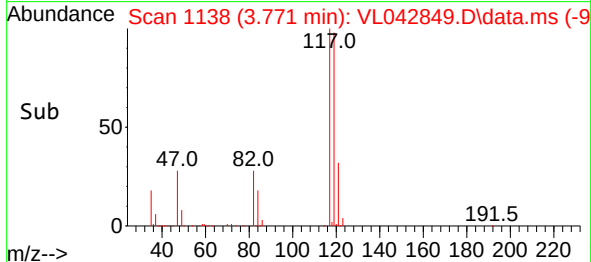
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



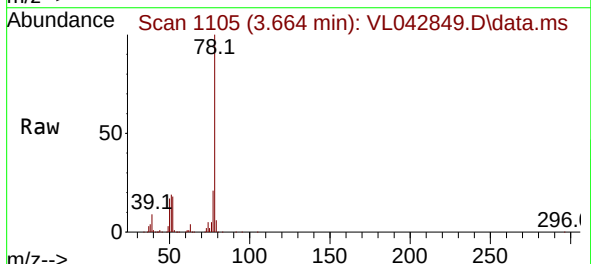
Tgt Ion: 117 Resp: 244672
Ion Ratio Lower Upper
117 100
119 98.1 74.7 112.1
121 32.0 23.2 34.8

Manual Integrations
APPROVED

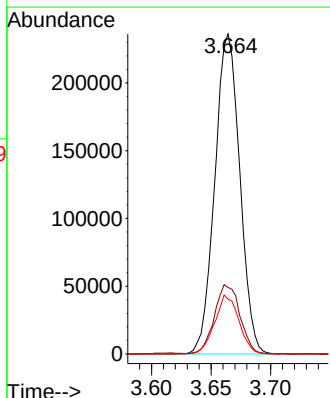
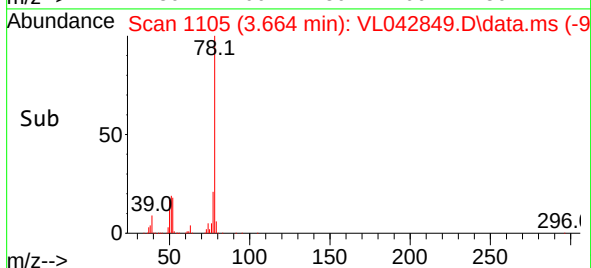
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

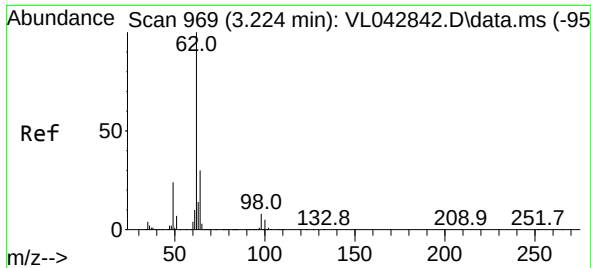


#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion: 78 Resp: 343952
Ion Ratio Lower Upper
78 100
77 20.8 17.7 26.5
50 17.1 13.9 20.9





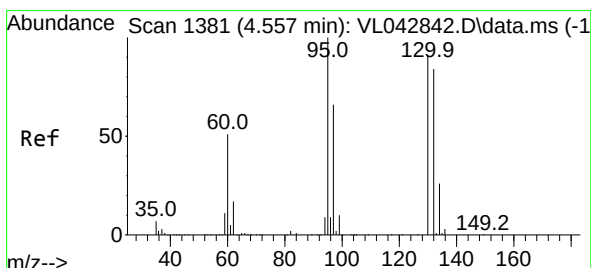
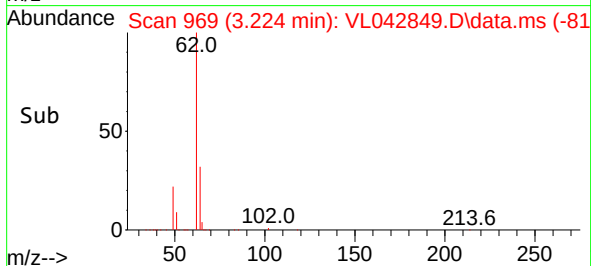
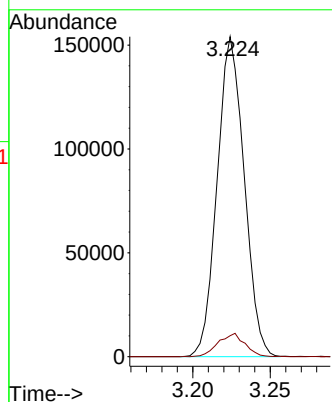
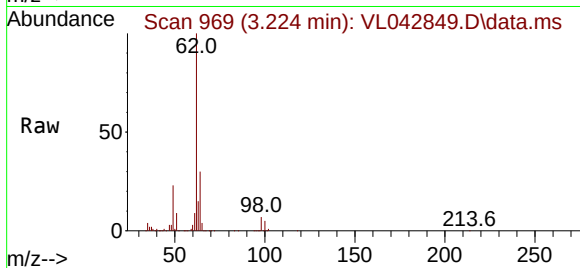
#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 62 Resp: 187160
Ion Ratio Lower Upper
62 100
98 7.2 5.9 8.9

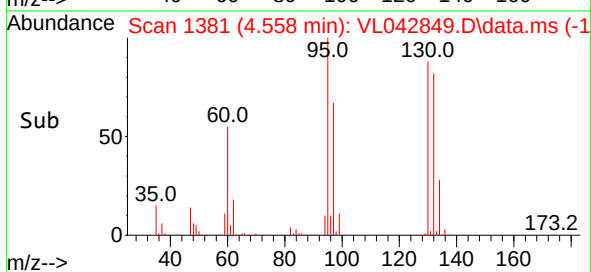
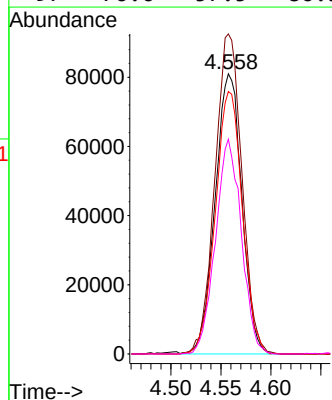
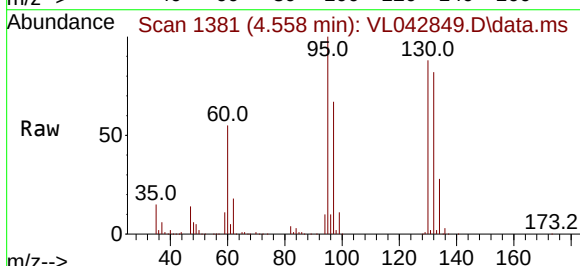
Manual Integrations
APPROVED

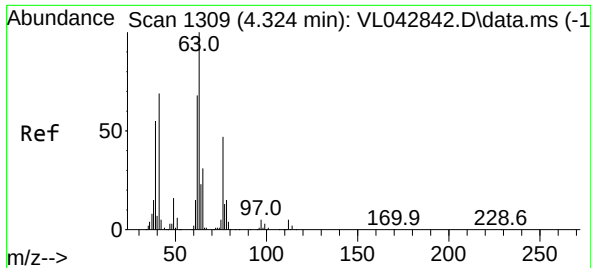
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 9.202 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:130 Resp: 150693
Ion Ratio Lower Upper
130 100
95 114.2 87.6 131.4
132 93.6 73.8 110.8
97 76.6 57.5 86.3





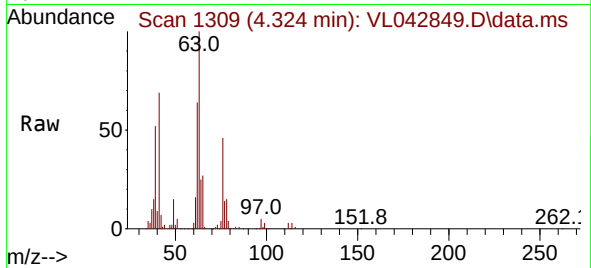
#39
 1,2-Dichloropropane
 Concen: 9.436 ppbv
 RT: 4.324 min Scan# 1309
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

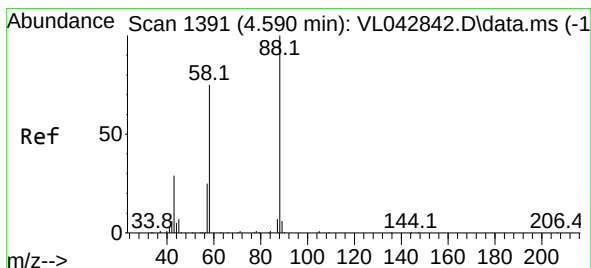
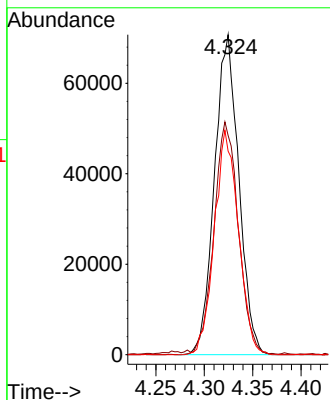
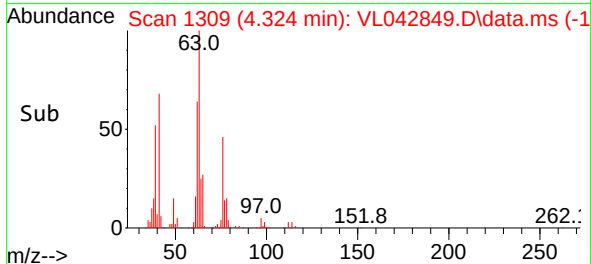


Tgt Ion: 63 Resp: 123560
 Ion Ratio Lower Upper
 63 100
 41 68.4 55.0 82.4
 62 63.6 54.4 81.6

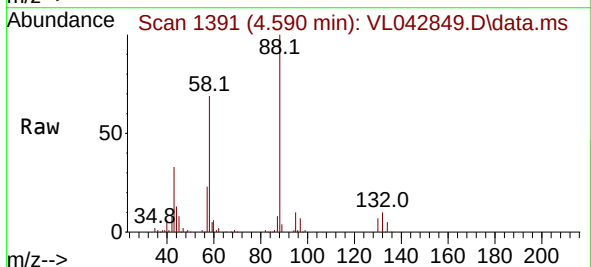
Manual Integrations

APPROVED

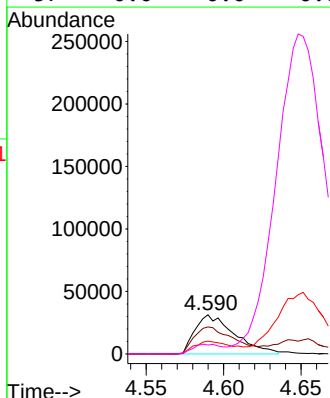
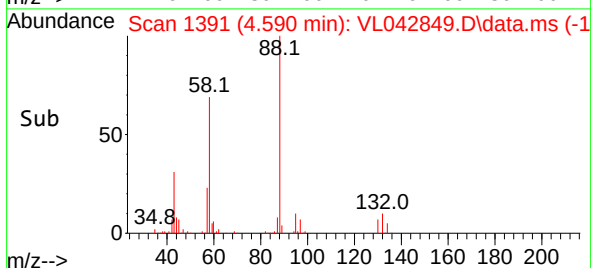
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

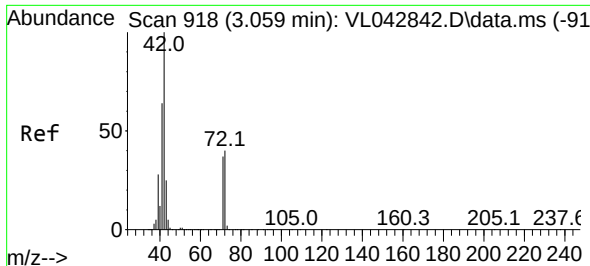


#40
 1,4-Dioxane
 Concen: 8.879 ppbv
 RT: 4.590 min Scan# 1391
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



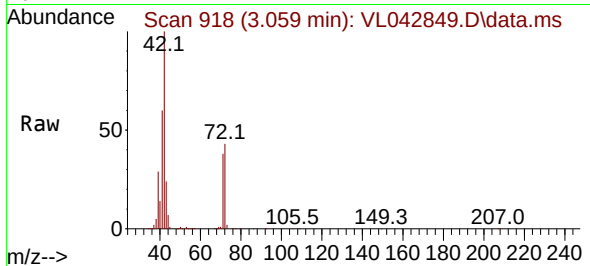
Tgt Ion: 88 Resp: 55292
 Ion Ratio Lower Upper
 88 100
 58 72.7 53.8 80.6
 43 32.4 22.8 34.2
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

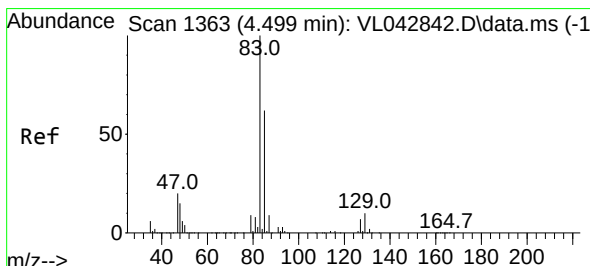
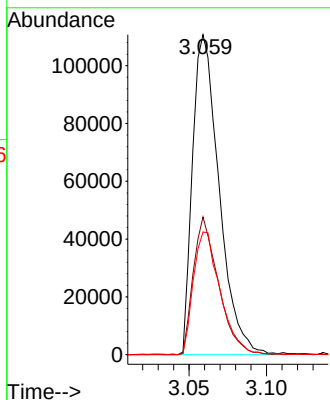
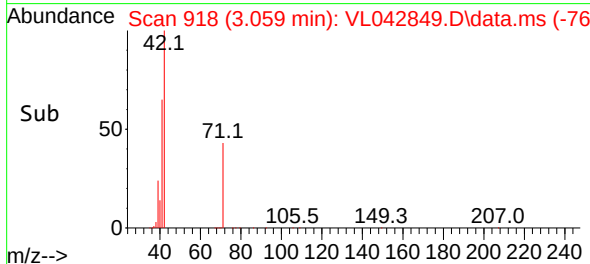
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 42 Resp: 132108
Ion Ratio Lower Upper
42 100
72 40.8 32.6 48.8
71 39.0 30.0 45.0

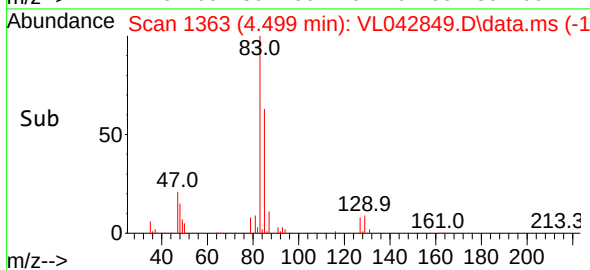
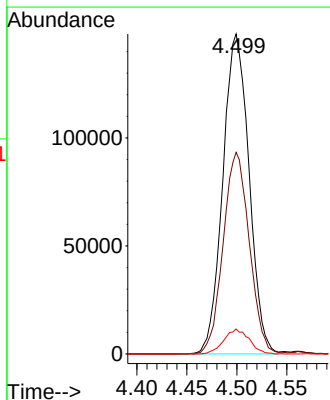
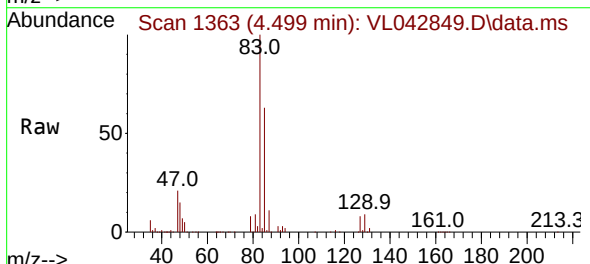
Manual Integrations
APPROVED

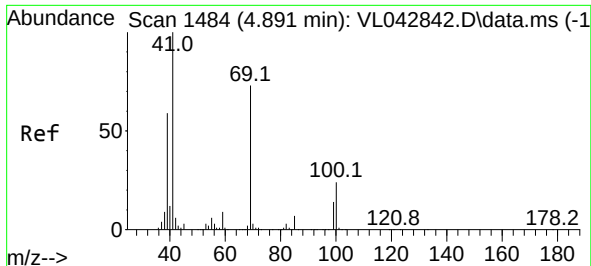
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 9.678 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

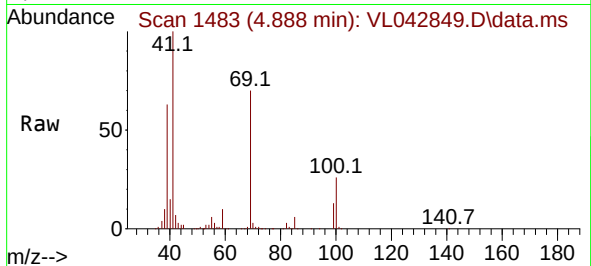
Tgt Ion: 83 Resp: 270154
Ion Ratio Lower Upper
83 100
85 63.0 49.8 74.8
127 7.8 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

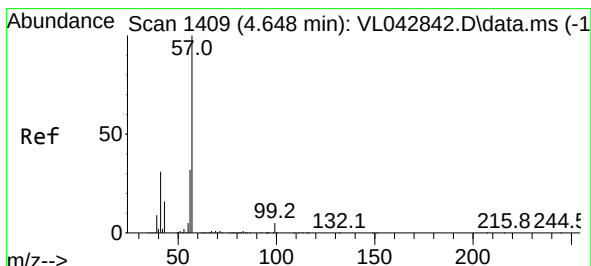
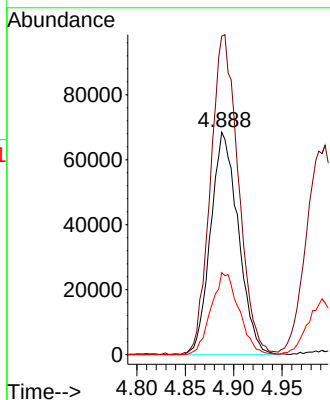
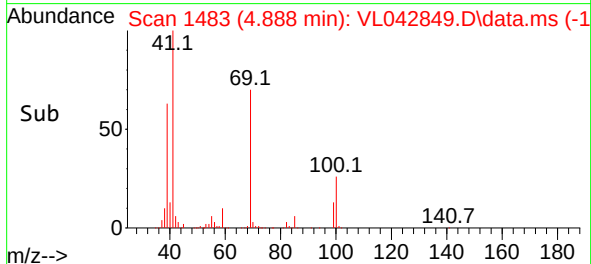
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



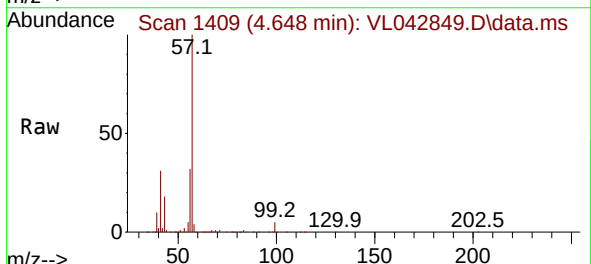
Tgt Ion: 69 Resp: 136329
Ion Ratio Lower Upper
69 100
41 144.9 114.6 172.0
100 37.0 30.2 45.4

Manual Integrations
APPROVED

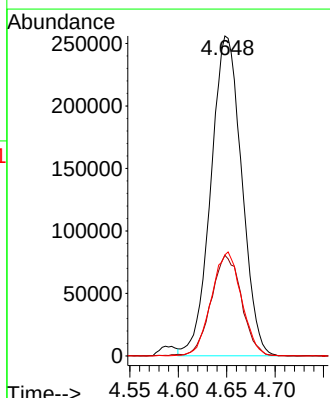
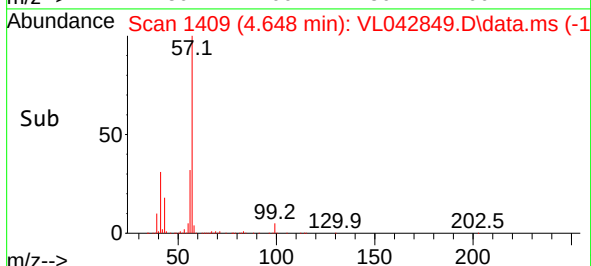
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

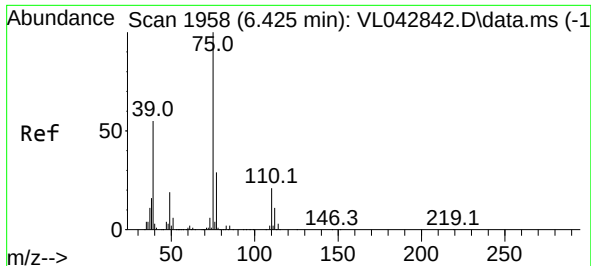


#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion: 57 Resp: 565415
Ion Ratio Lower Upper
57 100
41 31.3 24.8 37.2
56 31.9 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.645 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion: 75 Resp: 160784

Ion Ratio Lower Upper

75 100

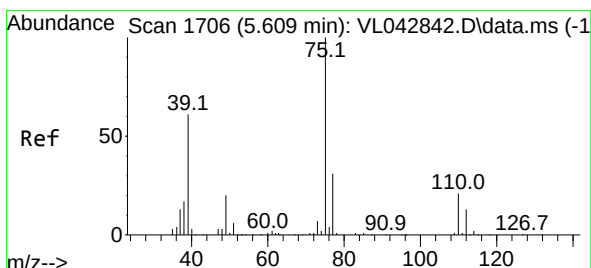
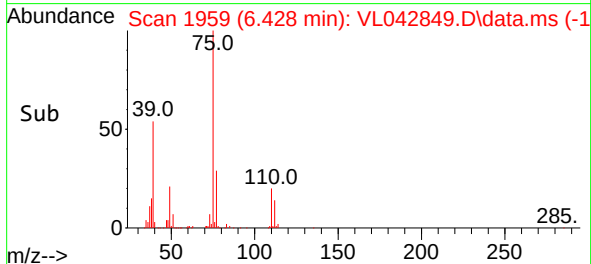
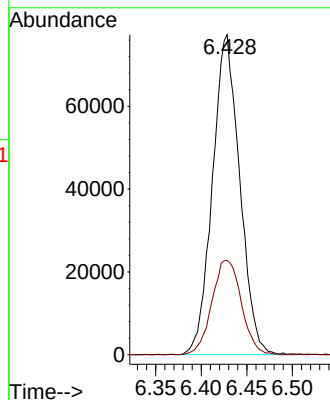
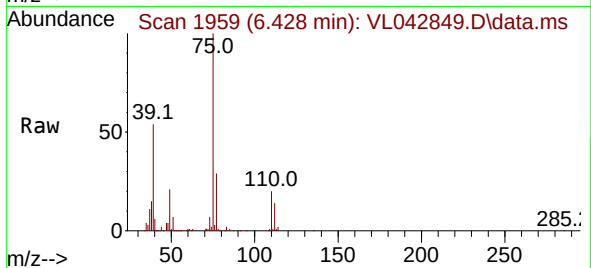
77 29.5 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#46

cis-1,3-Dichloropropene

Concen: 9.628 ppbv m

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

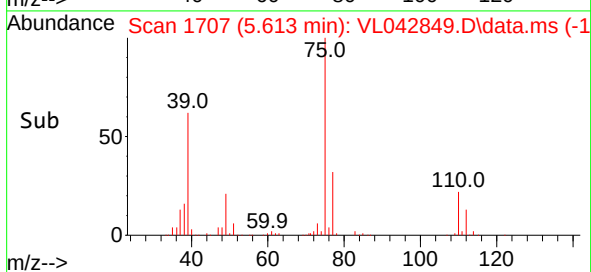
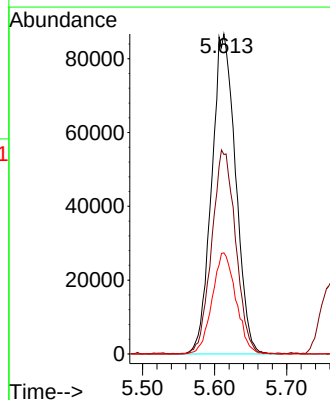
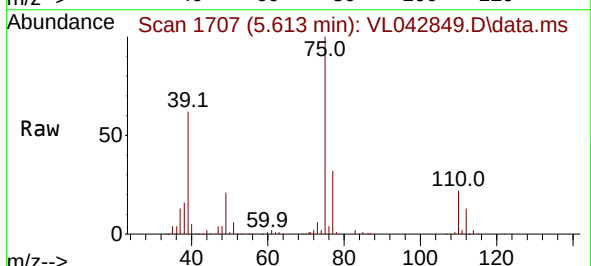
Tgt Ion: 75 Resp: 199988

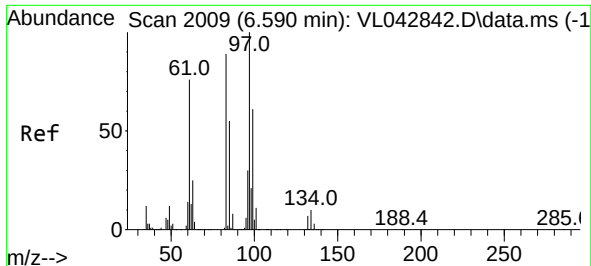
Ion Ratio Lower Upper

75 100

39 62.4 48.9 73.3

77 31.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.553 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

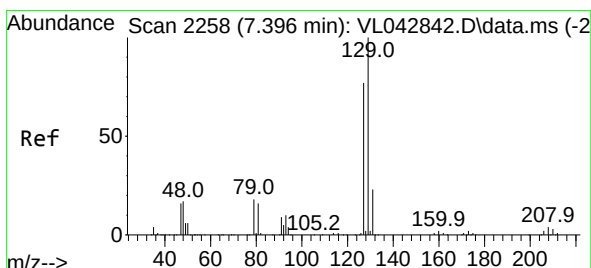
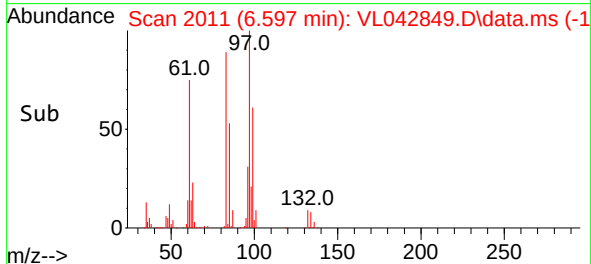
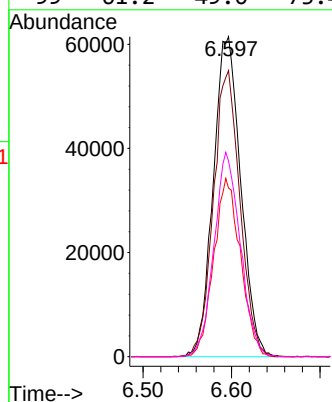
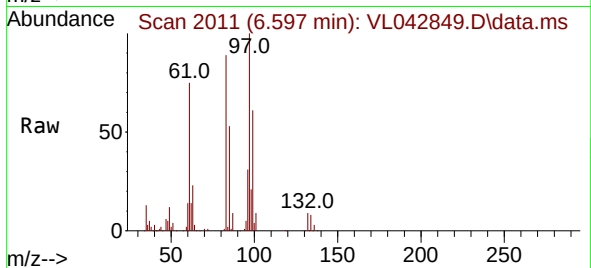
Tgt Ion: 97 Resp: 132548

Ion	Ratio	Lower	Upper
97	100		
83	89.3	71.0	106.4
85	52.6	43.6	65.4
99	61.2	49.0	73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 9.708 ppbv

RT: 7.399 min Scan# 2259

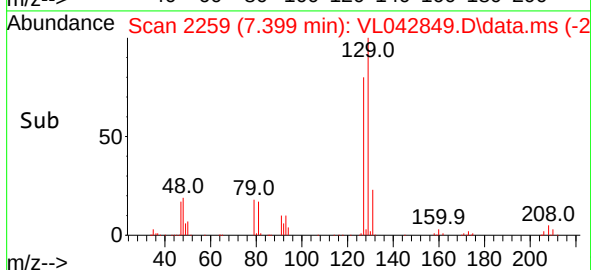
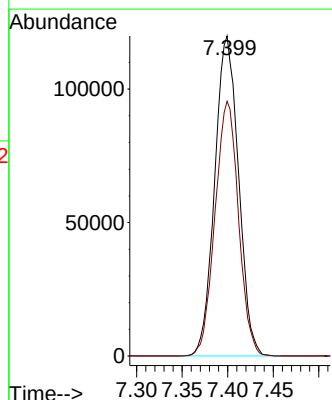
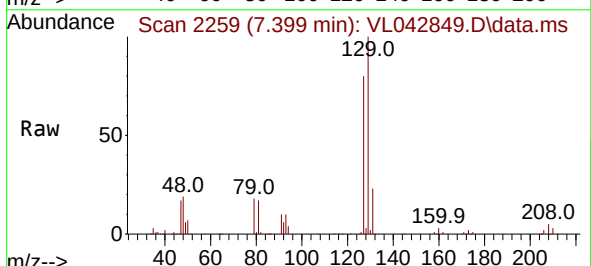
Delta R.T. 0.003 min

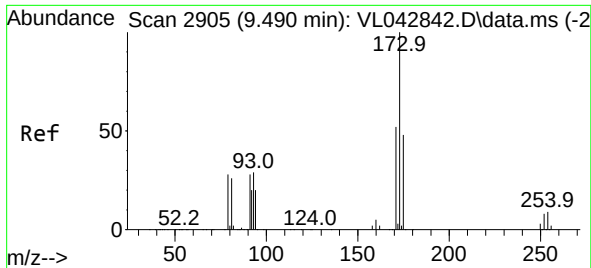
Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:129 Resp: 217970

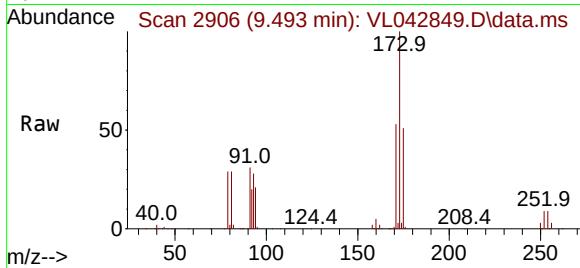
Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.4	118.2





#49
Bromoform
Concen: 9.446 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

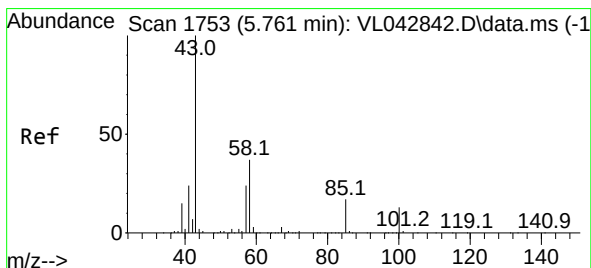
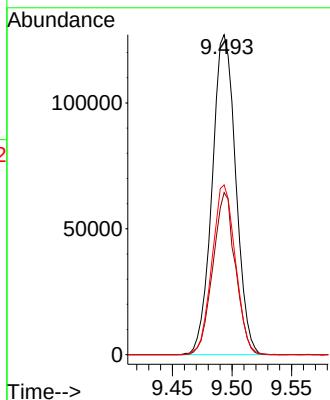
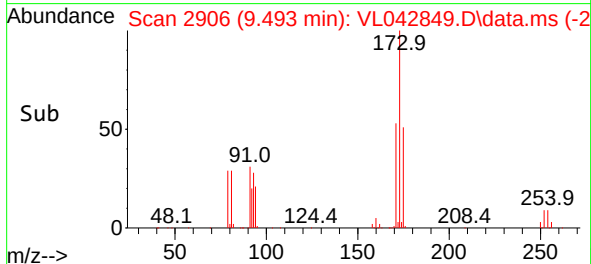
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



Tgt Ion: 173 Resp: 174914
Ion Ratio Lower Upper
173 100
175 48.4 39.2 58.8
171 52.6 41.3 61.9

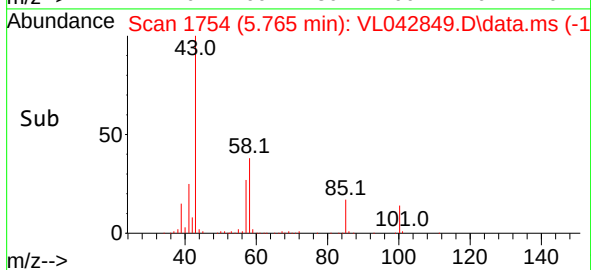
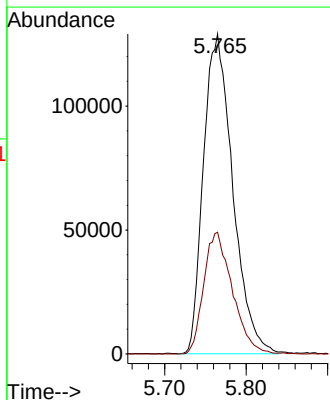
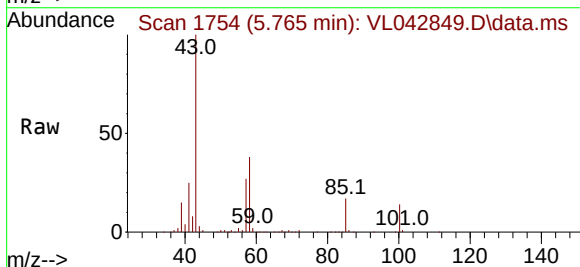
Manual Integrations
APPROVED

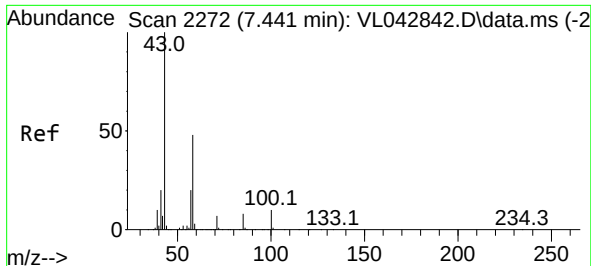
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 9.430 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

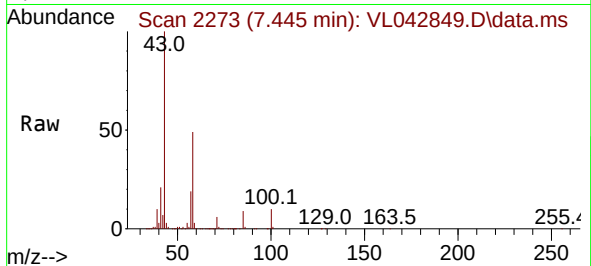
Tgt Ion: 43 Resp: 322264
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8





#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

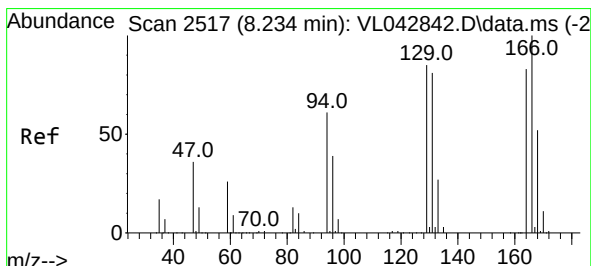
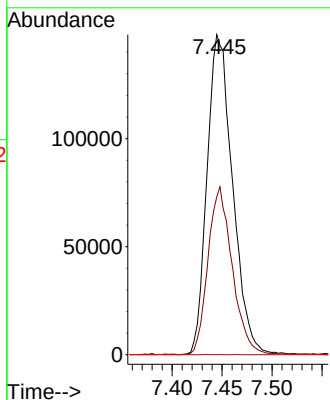
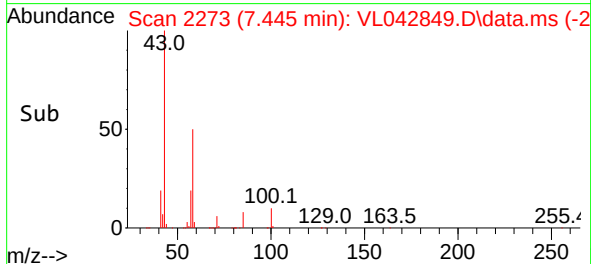
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 43 Resp: 26332
Ion Ratio Lower Upper
43 100
58 49.9 41.0 61.6
98 0.1 0.1 0.1

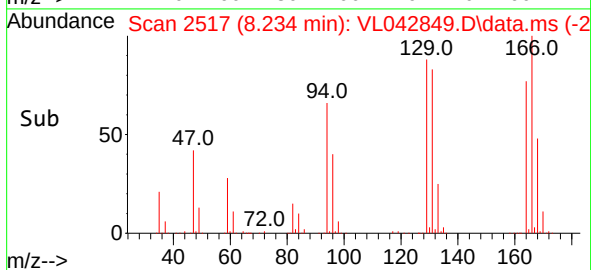
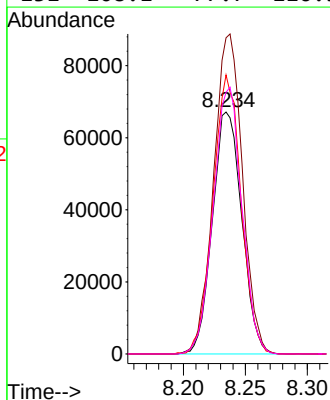
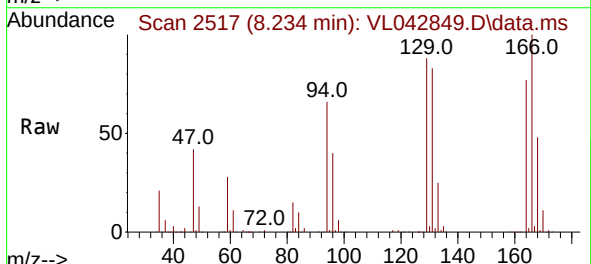
Manual Integrations
APPROVED

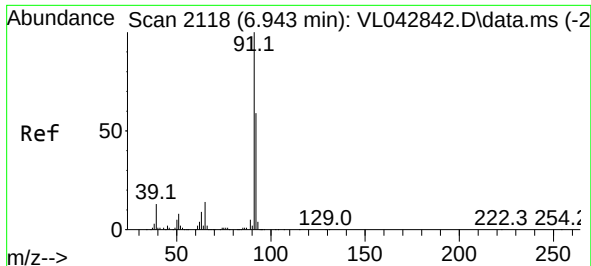
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 8.544 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

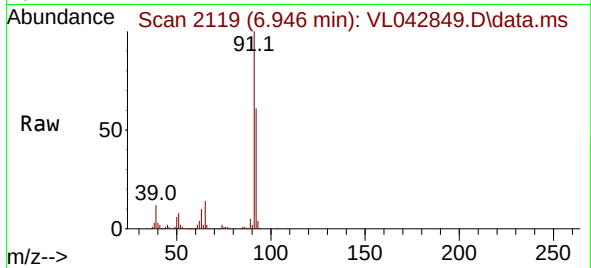
Tgt Ion:164 Resp: 110828
Ion Ratio Lower Upper
164 100
166 130.6 96.5 144.7
129 115.3 81.8 122.6
131 108.1 77.7 116.5





#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

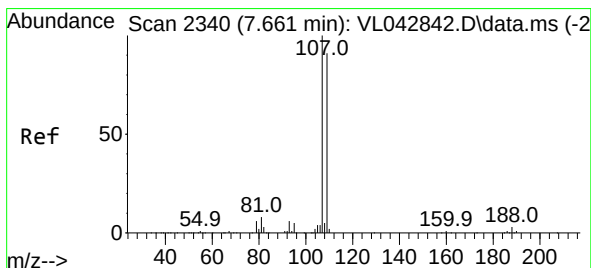
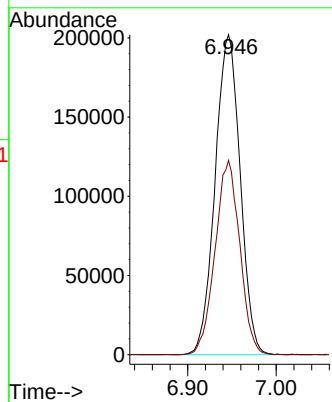
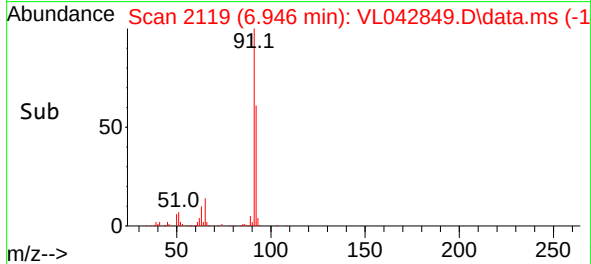
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



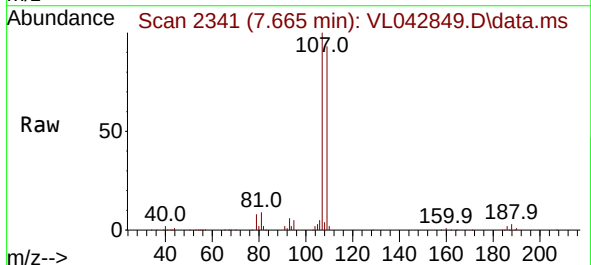
Tgt Ion: 91 Resp: 398138
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

Manual Integrations
APPROVED

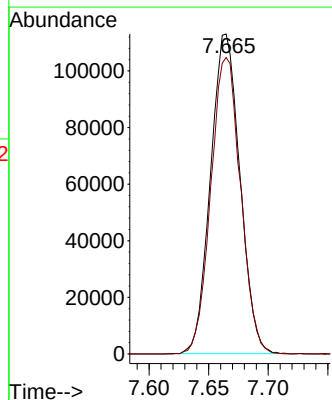
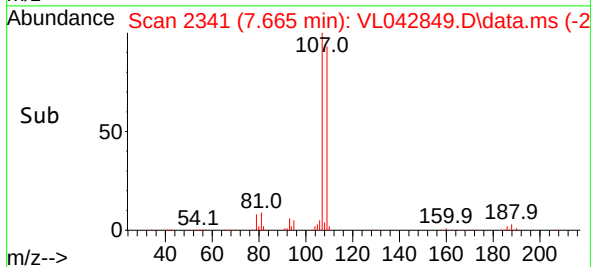
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

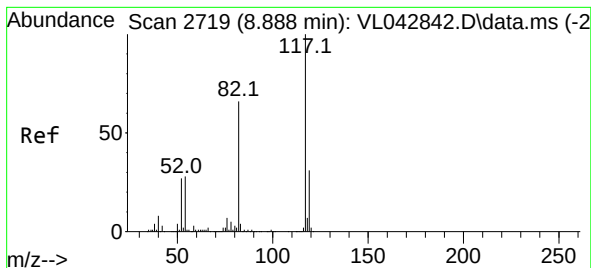


#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion:107 Resp: 193340
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

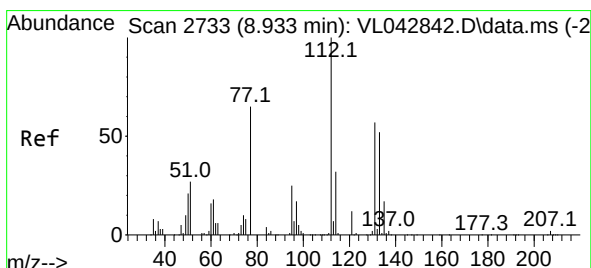
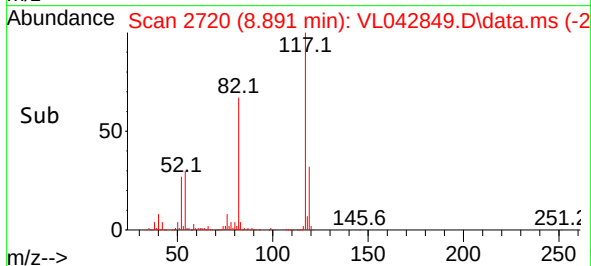
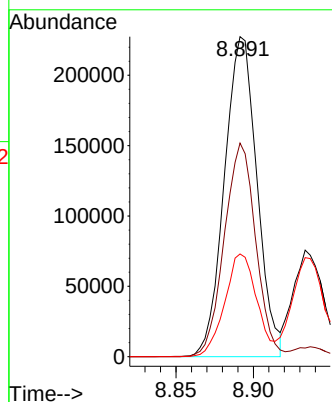
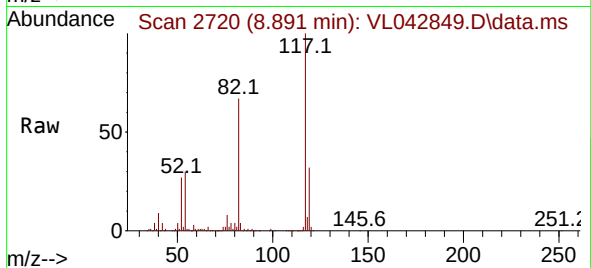
Tgt Ion:117 Resp: 33349

Ion	Ratio	Lower	Upper
117	100		
82	67.3	54.6	81.8
119	31.8	25.9	38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.291 ppbv

RT: 8.937 min Scan# 2734

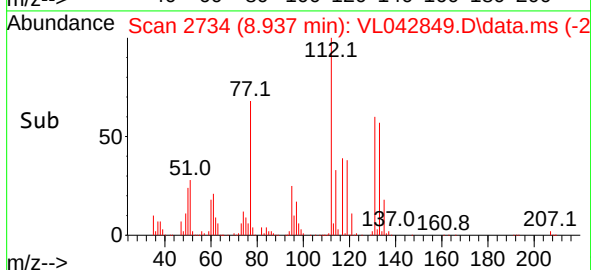
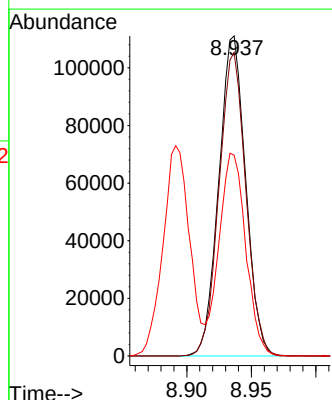
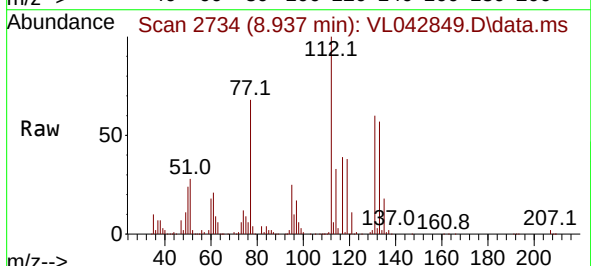
Delta R.T. 0.003 min

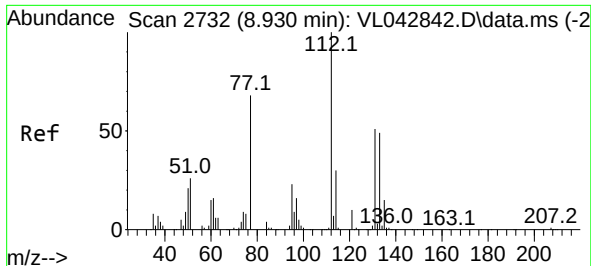
Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:131 Resp: 160225

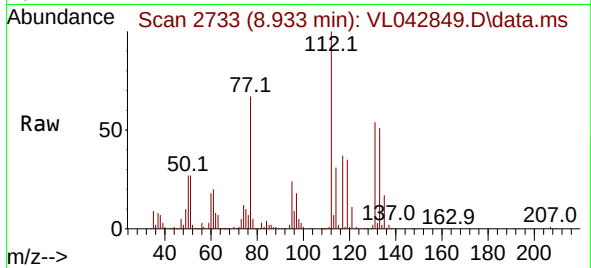
Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.4	116.0
119	64.3	51.2	76.8





#57
Chlorobenzene
Concen: 9.378 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

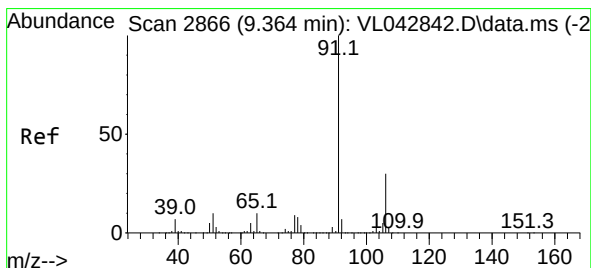
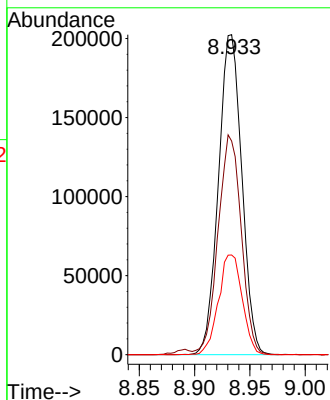
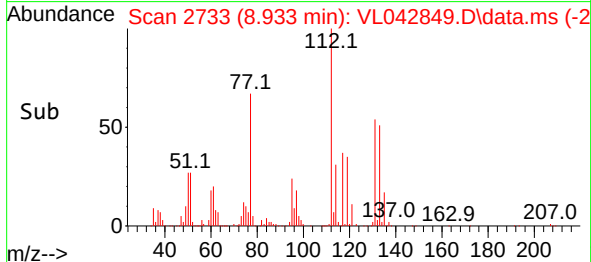
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 112 Resp: 297375
Ion Ratio Lower Upper
112 100
77 66.6 55.5 83.3
114 31.2 27.2 33.2

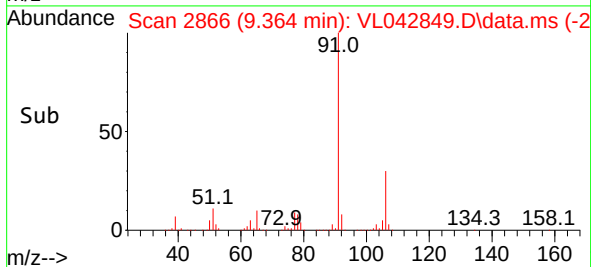
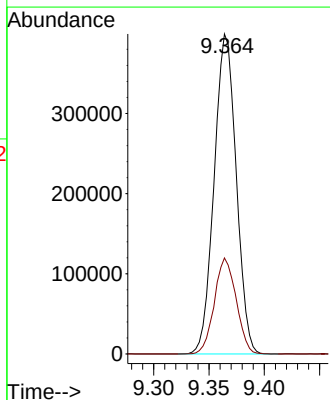
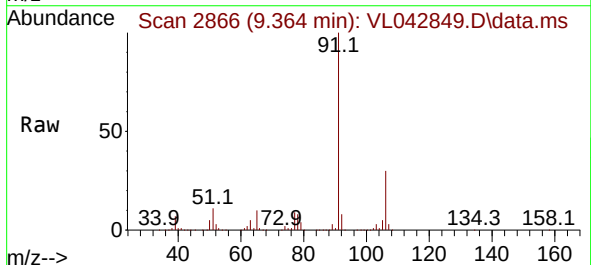
Manual Integrations
APPROVED

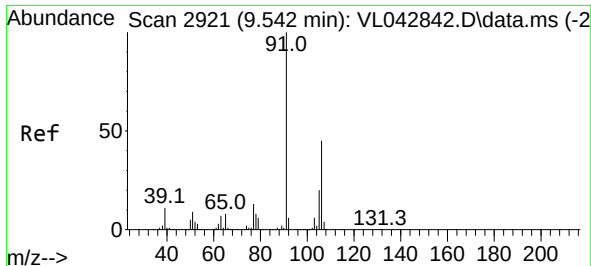
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 9.414 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 554015
Ion Ratio Lower Upper
91 100
106 30.0 23.9 35.9





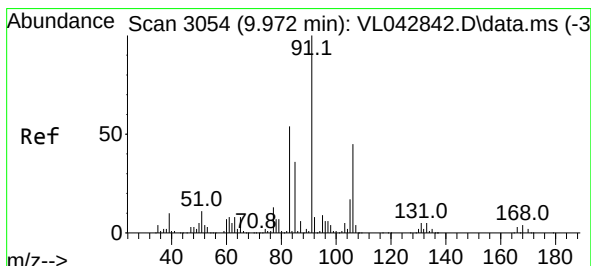
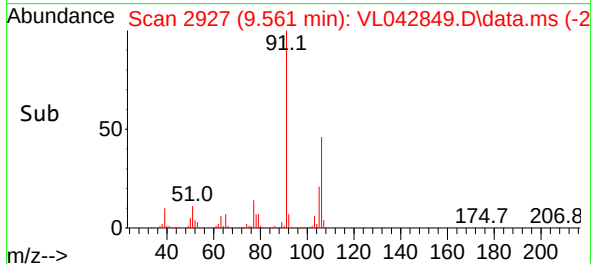
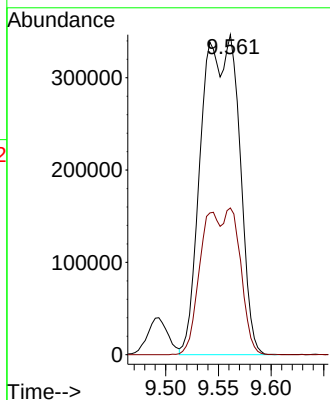
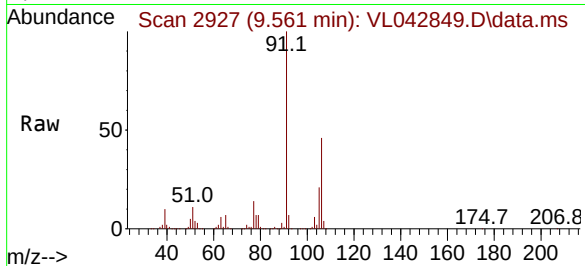
#59
m/p-Xylene
Concen: 18.754 ppbv m
RT: 9.561 min Scan# 2927
Delta R.T. 0.019 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 865100
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

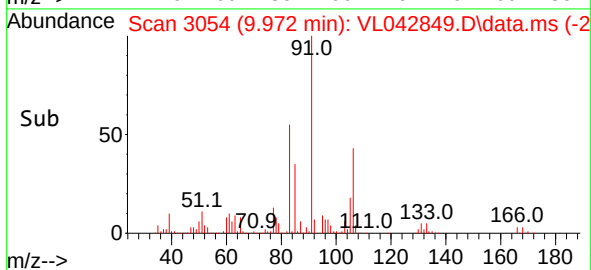
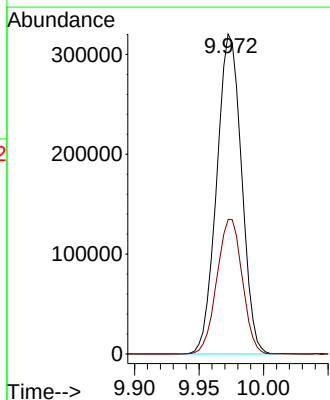
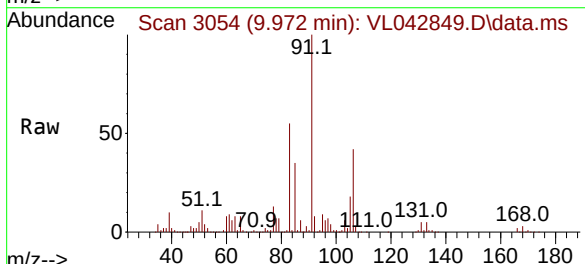
Manual Integrations
APPROVED

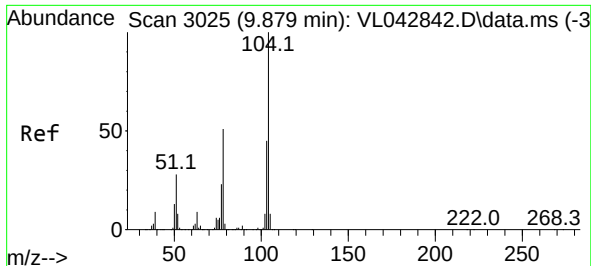
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 9.239 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

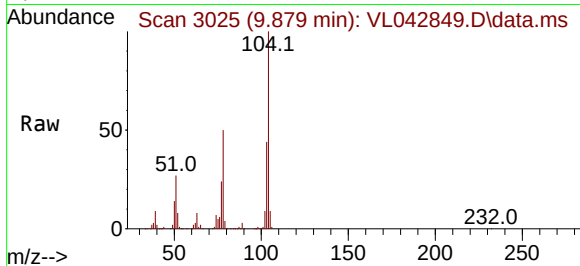
Tgt Ion: 91 Resp: 428721
Ion Ratio Lower Upper
91 100
106 43.0 21.8 65.4





#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

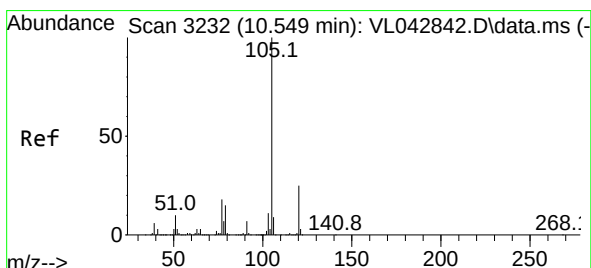
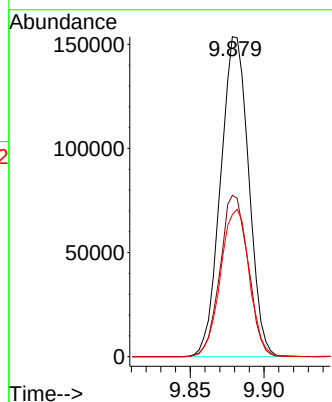
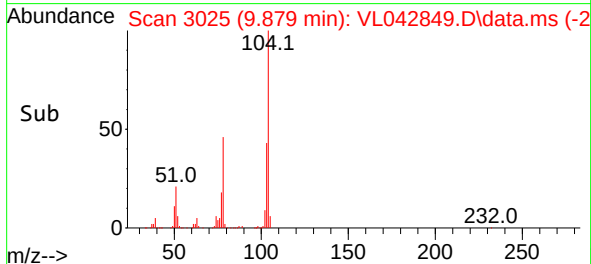
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



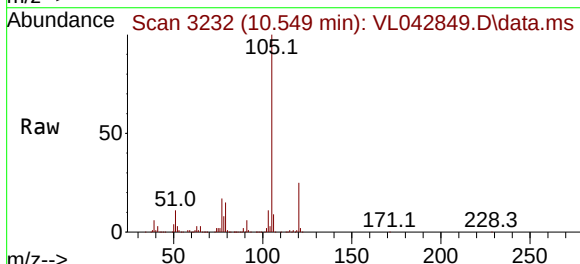
Tgt Ion:104 Resp: 203858
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 47.1 37.7 56.5

Manual Integrations
APPROVED

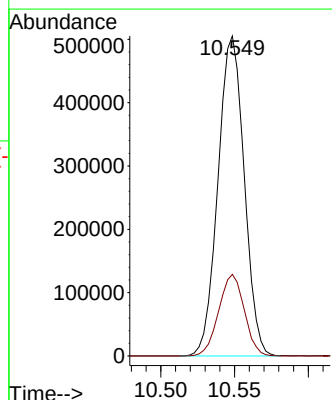
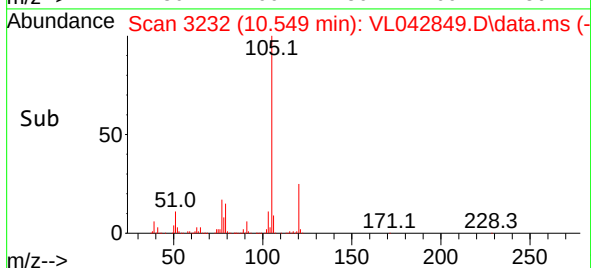
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

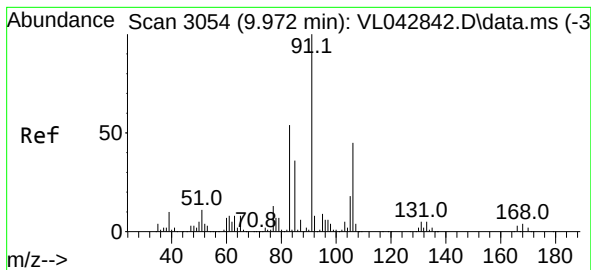


#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



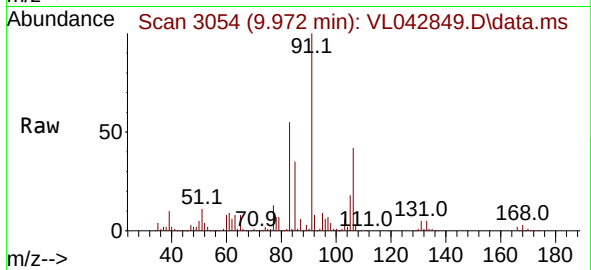
Tgt Ion:105 Resp: 624287
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.826 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

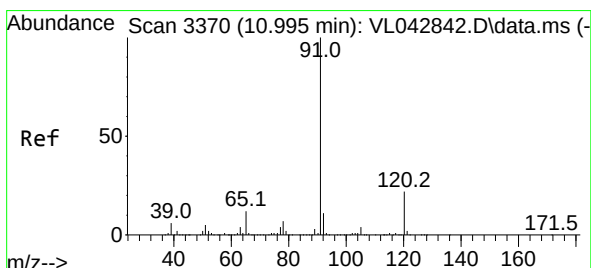
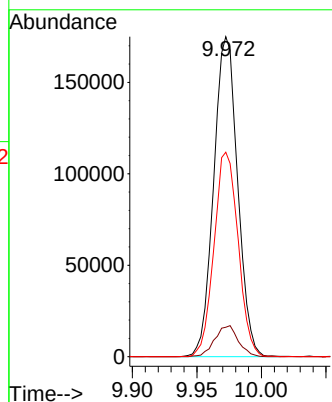
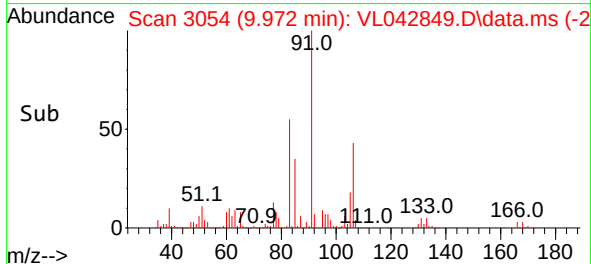
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



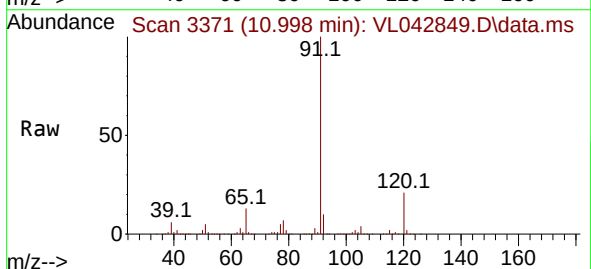
Tgt Ion: 83 Resp: 22523
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.4 32.3 96.8

Manual Integrations
APPROVED

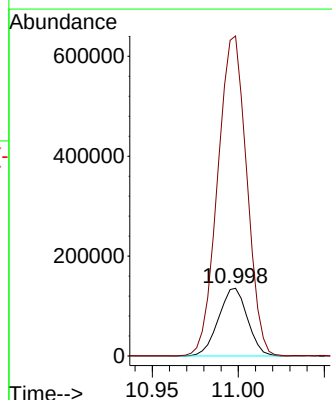
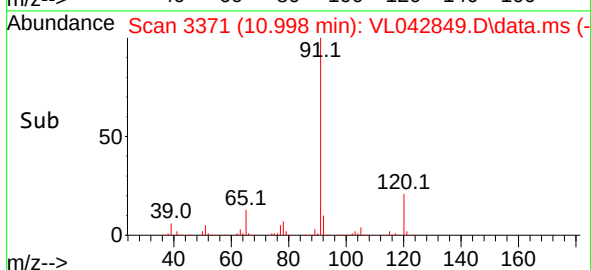
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

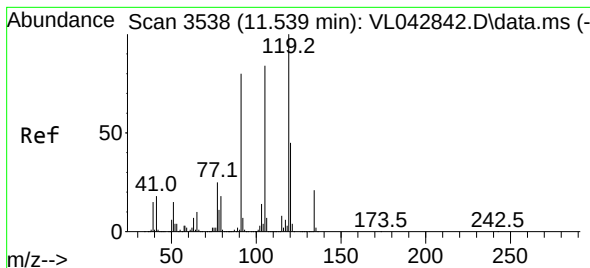


#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion:120 Resp: 158234
Ion Ratio Lower Upper
120 100
91 476.9 375.8 563.6





#65

tert-Butylbenzene

Concen: 8.946 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

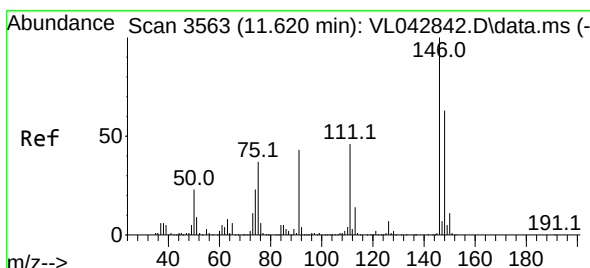
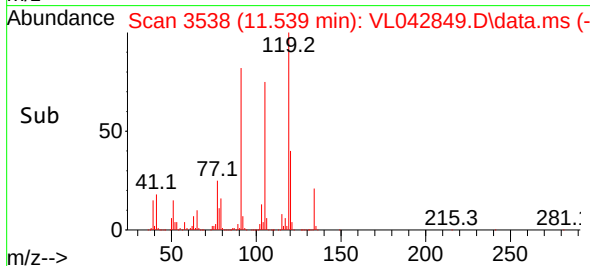
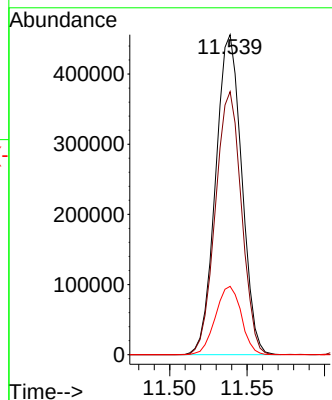
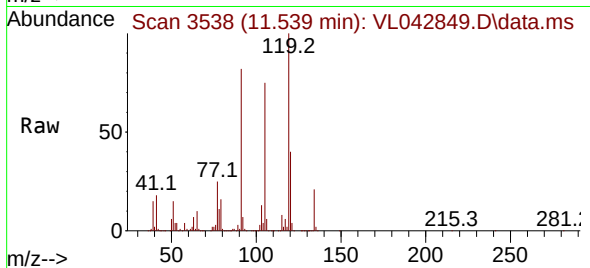
ICVVL081325

Tgt Ion:	119	Resp:	53479
Ion Ratio	Lower	Upper	
119	100		
91	82.2	63.9	95.9
134	21.1	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#66

Benzyl Chloride

Concen: 9.031 ppbv

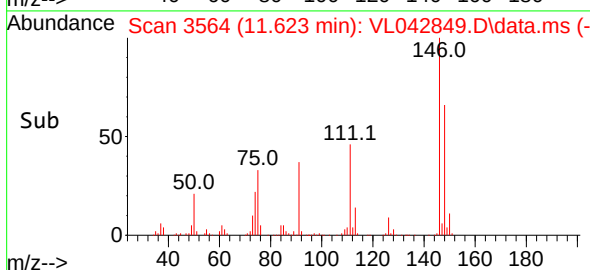
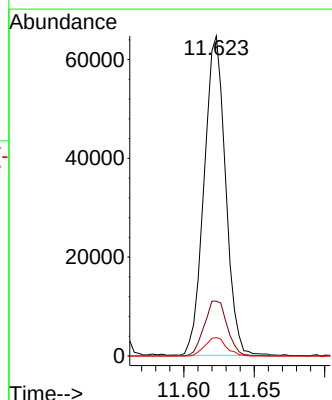
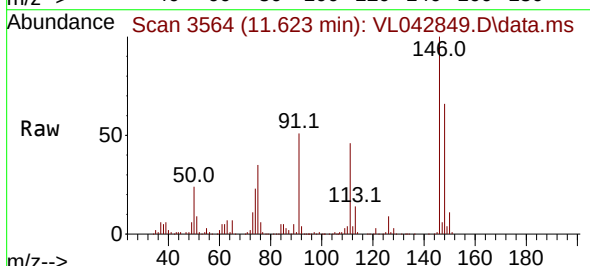
RT: 11.623 min Scan# 3564

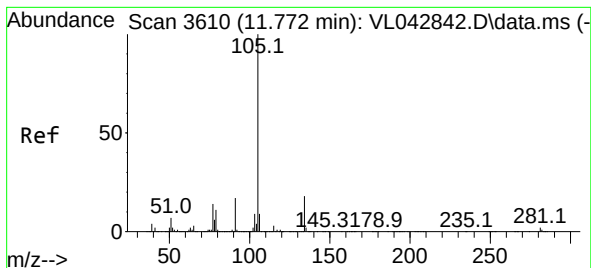
Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

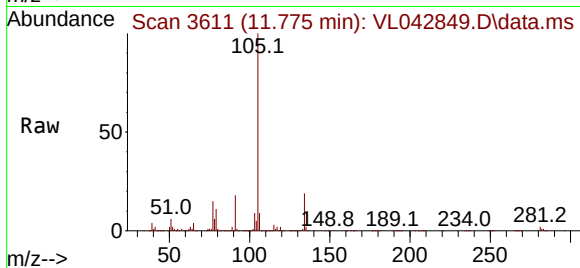
Tgt Ion:	91	Resp:	68533
Ion Ratio	Lower	Upper	
91	100		
126	18.4	14.2	21.4
128	5.7	5.0	7.6





#67
 sec-Butylbenzene
 Concen: 9.088 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

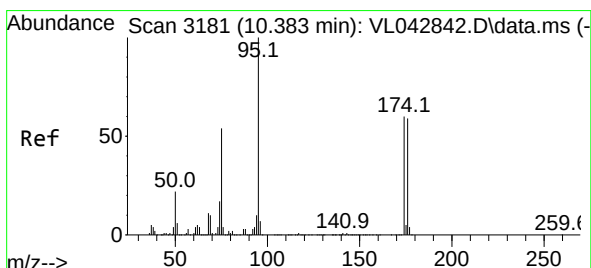
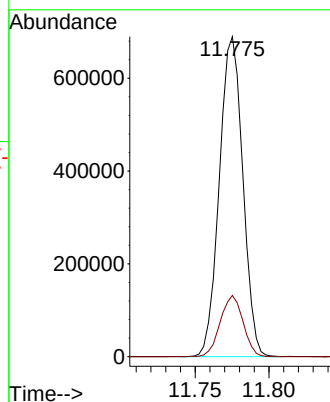
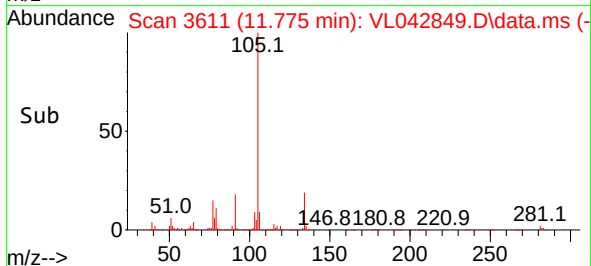
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



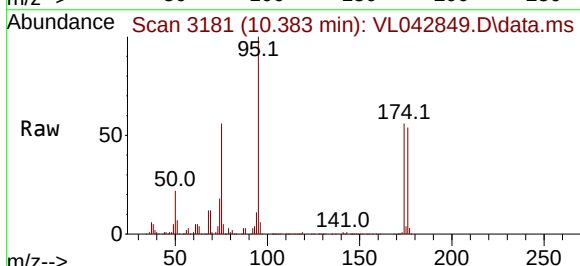
Tgt Ion:105 Resp: 762602
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

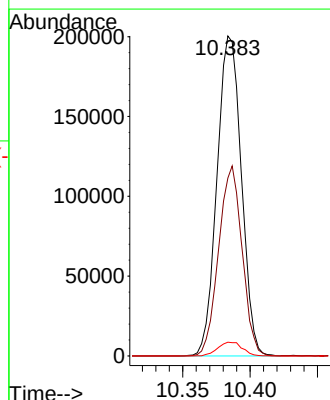
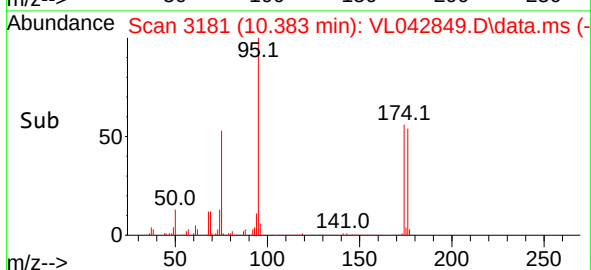
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

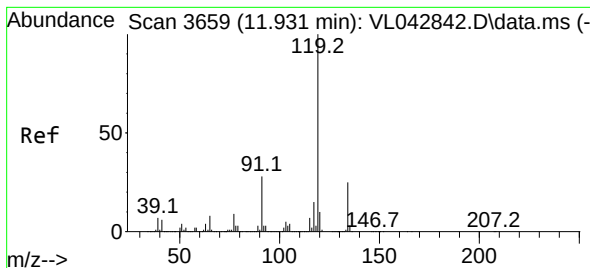


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.086 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



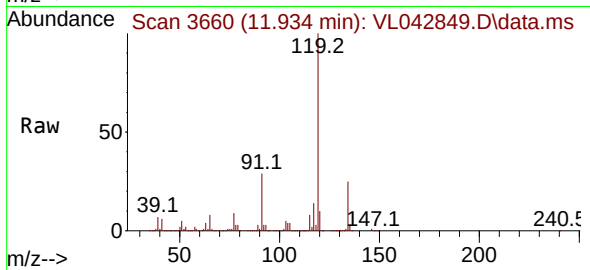
Tgt Ion: 95 Resp: 252268
 Ion Ratio Lower Upper
 95 100
 174 57.2 48.4 72.6
 175 4.4 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.810 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

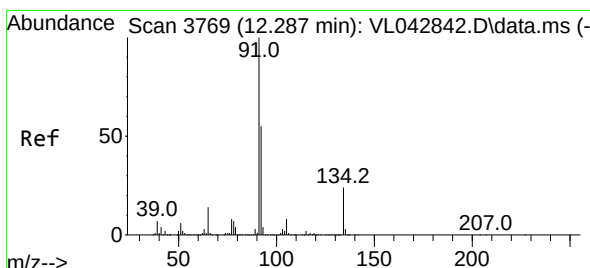
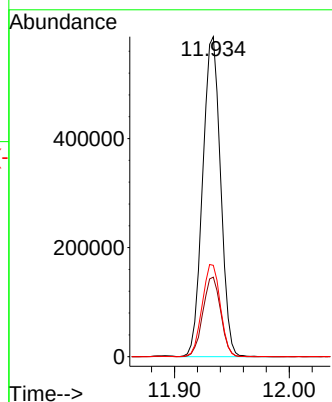
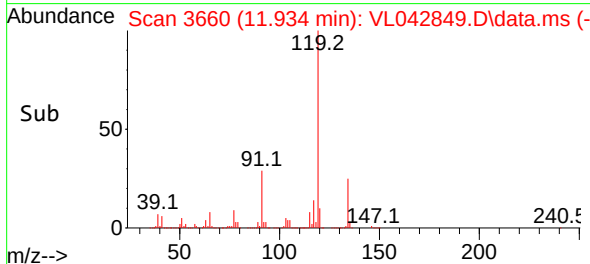
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



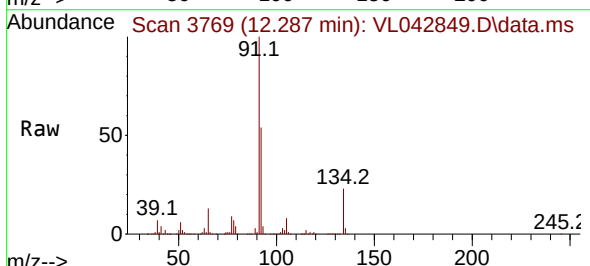
Tgt Ion: 119 Resp: 634670
Ion Ratio Lower Upper
119 100
134 24.9 20.6 30.8
91 29.4 22.6 34.0

Manual Integrations
APPROVED

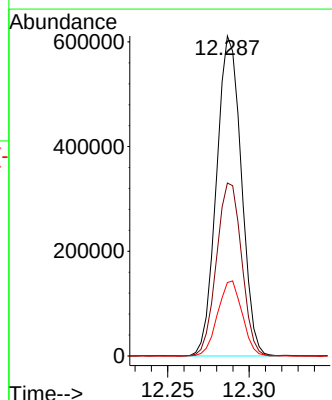
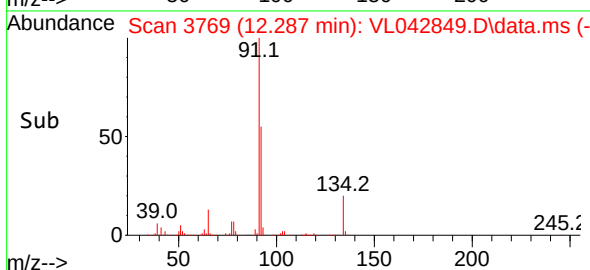
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

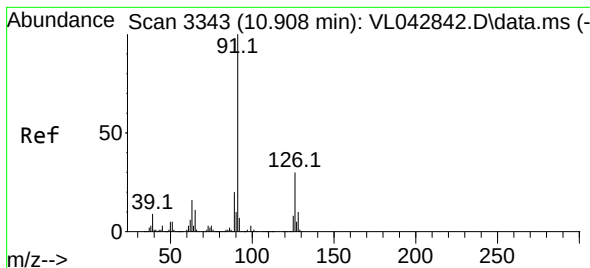


#70
n-Butylbenzene
Concen: 9.062 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



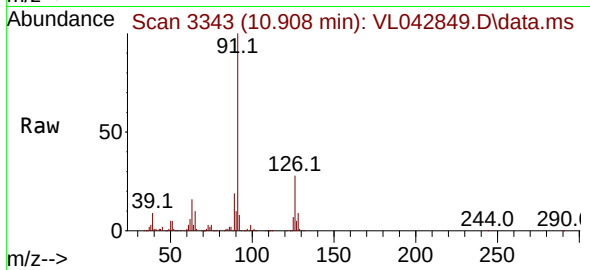
Tgt Ion: 91 Resp: 647453
Ion Ratio Lower Upper
91 100
92 54.8 44.6 66.8
134 23.1 19.0 28.4





#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

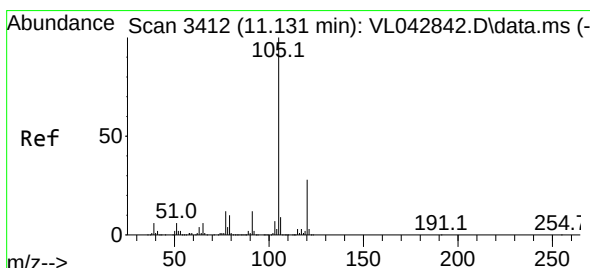
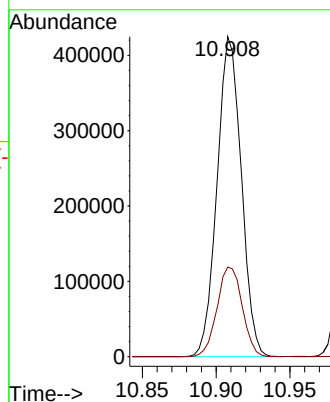
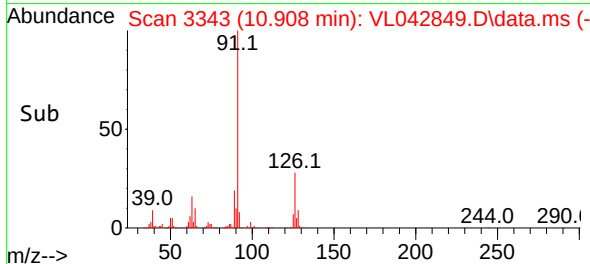
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



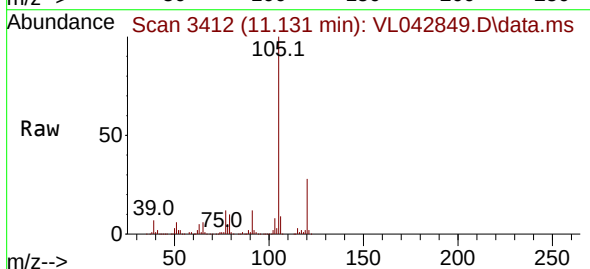
Tgt Ion: 91 Resp: 48517
Ion Ratio Lower Upper
91 100
126 29.1 12.0 47.8

Manual Integrations
APPROVED

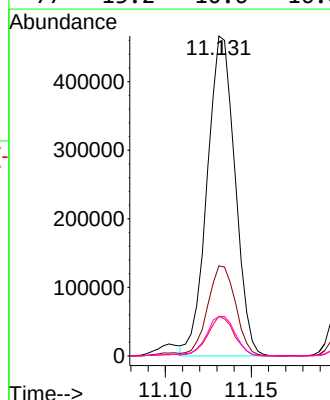
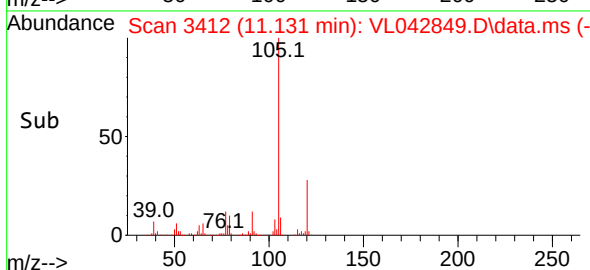
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

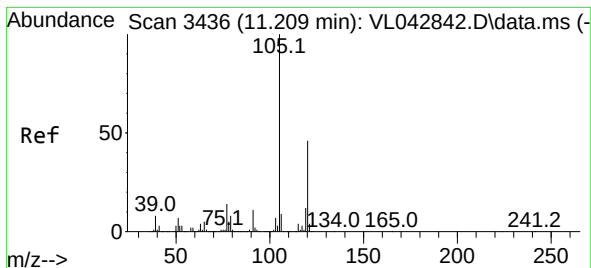


#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion:105 Resp: 525262
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.2
91 12.5 9.8 14.6
77 13.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.108 ppbv

RT: 11.212 min Scan# 3436

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion:105 Resp: 435708

Ion Ratio Lower Upper

105 100

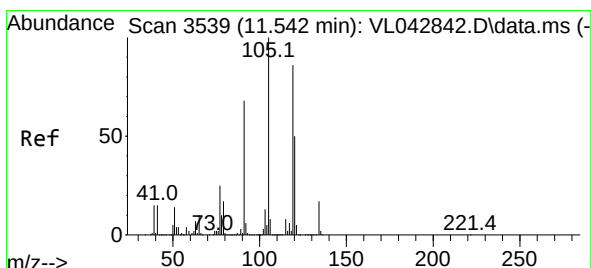
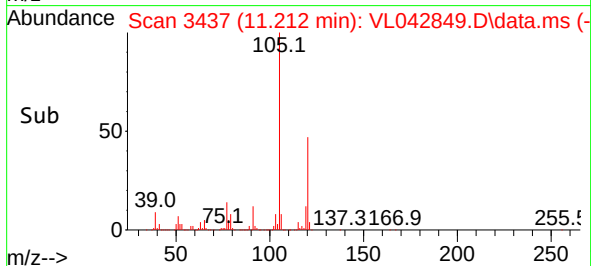
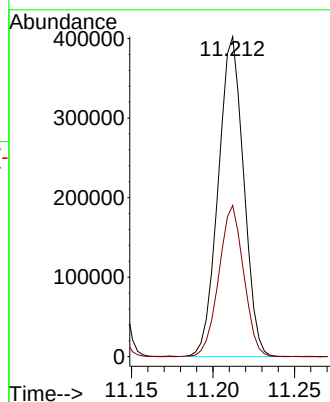
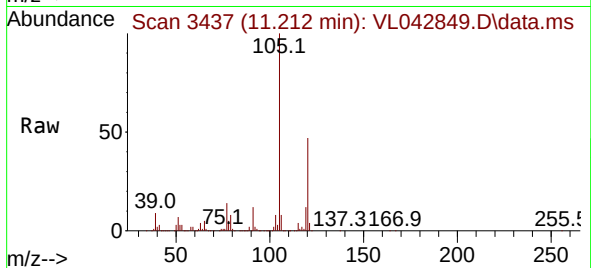
120 47.2 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.943 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 469573

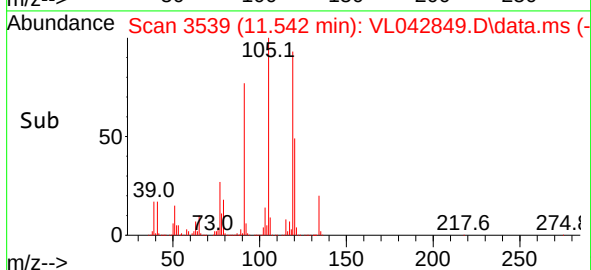
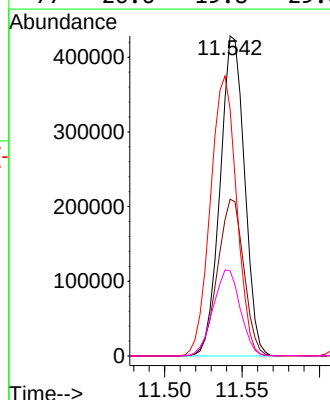
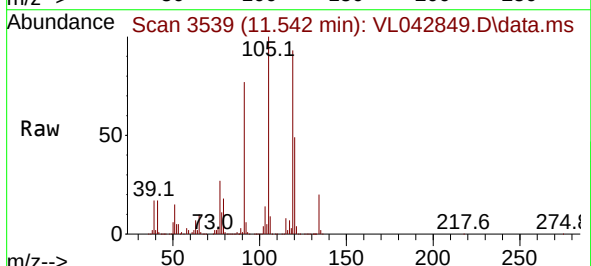
Ion Ratio Lower Upper

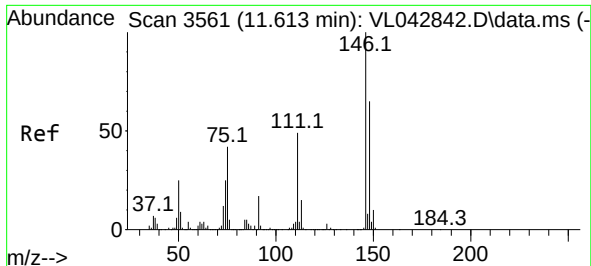
105 100

120 49.0 39.8 59.6

91 77.0 54.2 81.4

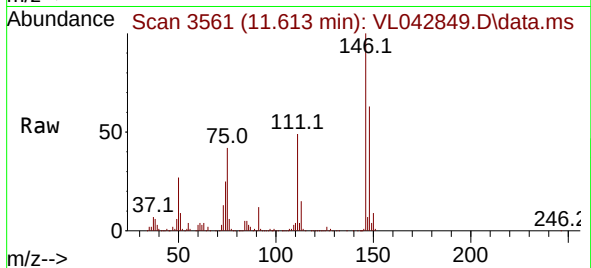
77 26.6 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 9.209 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

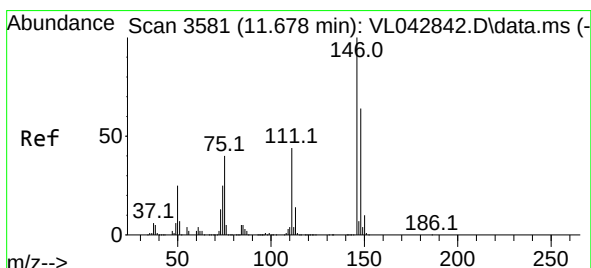
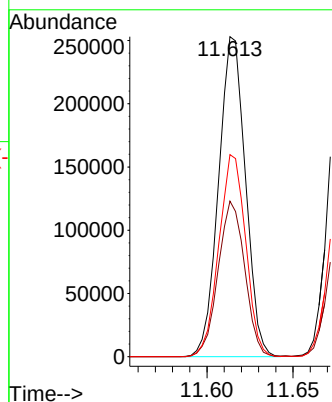
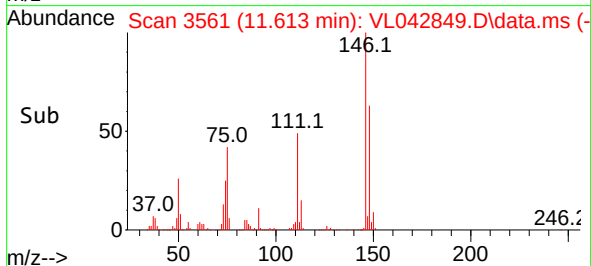
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion:146 Resp: 274870
Ion Ratio Lower Upper
146 100
111 48.2 23.9 71.7
148 63.0 31.4 94.0

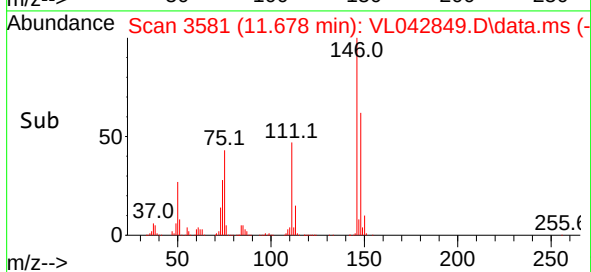
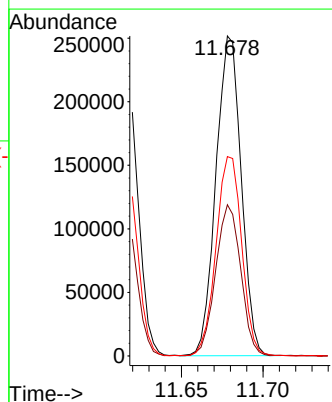
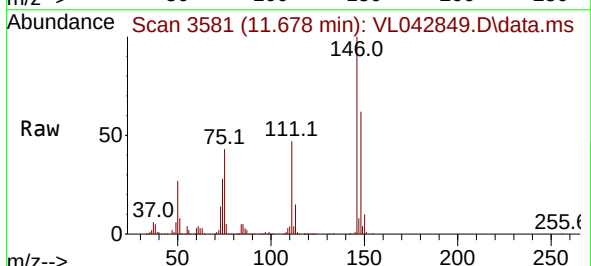
Manual Integrations
APPROVED

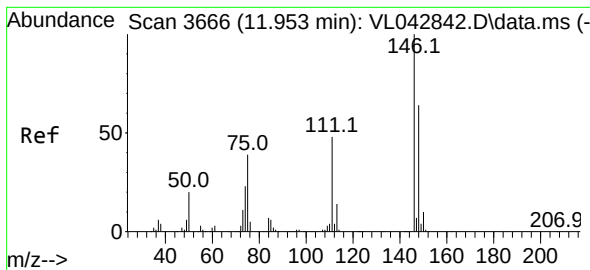
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#76
1,4-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:146 Resp: 270976
Ion Ratio Lower Upper
146 100
111 47.2 22.7 68.1
148 63.6 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.736 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

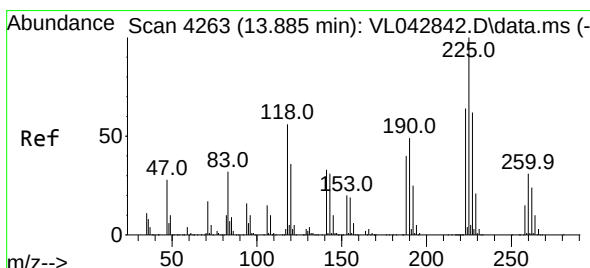
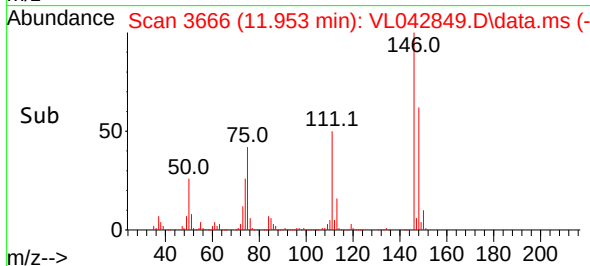
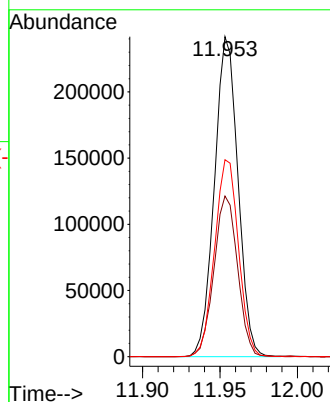
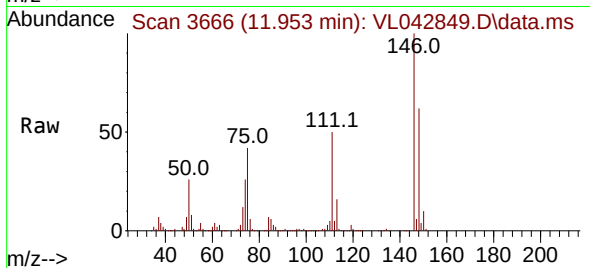
ICVVL081325

Tgt Ion:	146	Resp:	25534
Ion Ratio	Lower	Upper	
146	100		
111	50.5	24.6	74.0
148	62.7	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.778 ppbv

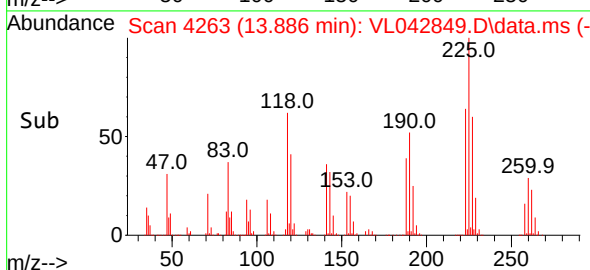
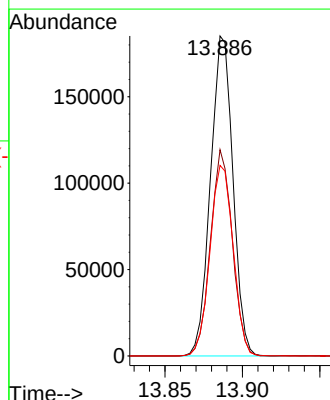
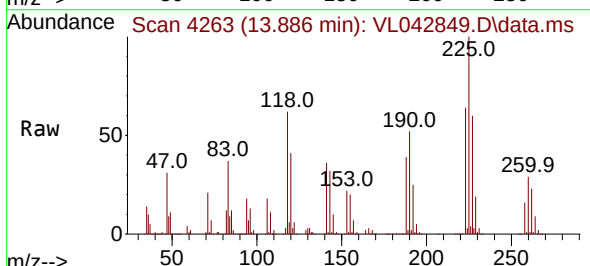
RT: 13.886 min Scan# 4263

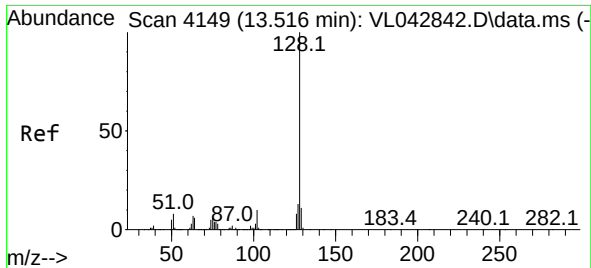
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

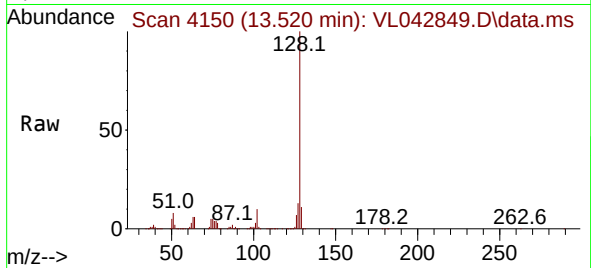
Tgt Ion:	225	Resp:	186318
Ion Ratio	Lower	Upper	
225	100		
223	62.9	51.4	77.2
227	61.6	51.9	77.9





#79
Naphthalene
Concen: 9.284 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

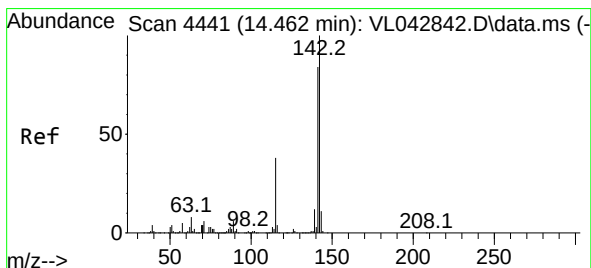
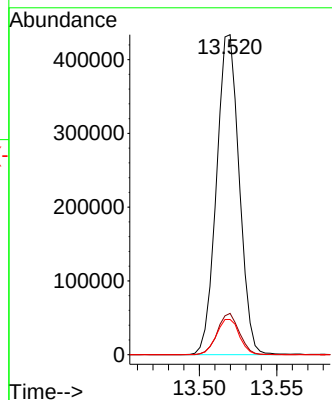
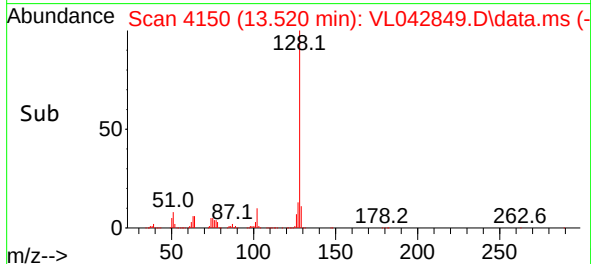
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion:128 Resp: 441940
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 11.0 8.9 13.3

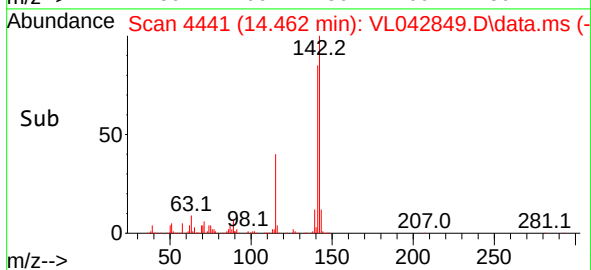
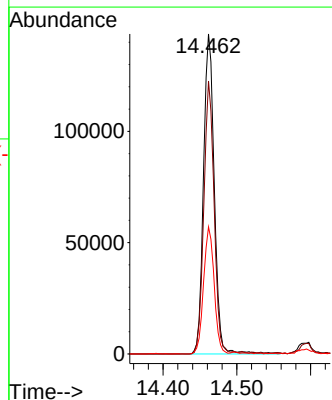
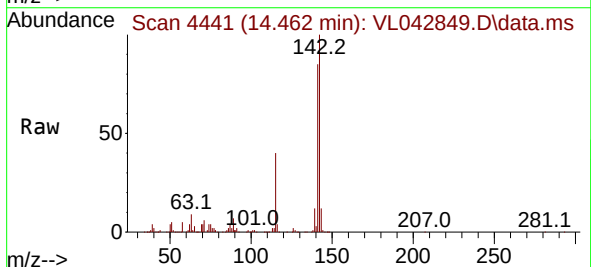
Manual Integrations
APPROVED

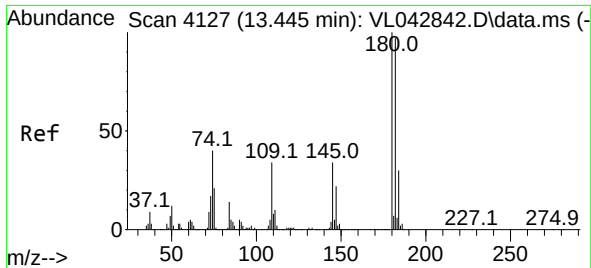
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80
Naphthalene,2-methyl-
Concen: 8.188 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:142 Resp: 145644
Ion Ratio Lower Upper
142 100
141 81.9 67.0 100.6
115 40.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 9.016 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042849.D

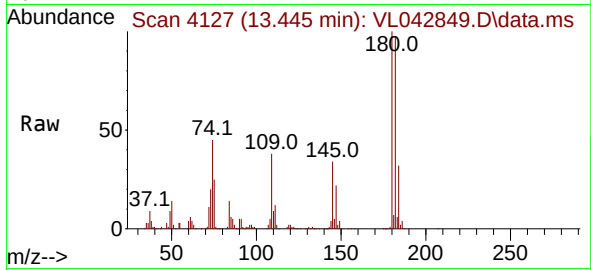
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325



Tgt Ion:180 Resp: 215715

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

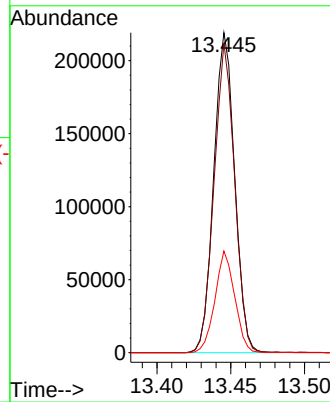
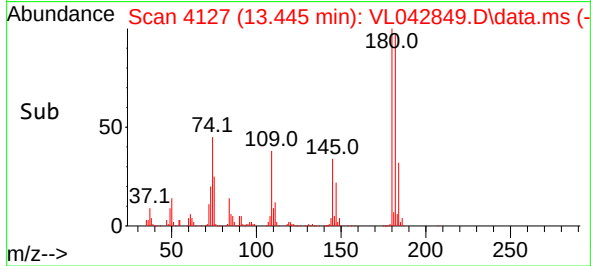
184 30.1 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	1.466	1.334	9.0	91	0.00
3	Chlorodifluoromethane	1.620	1.511	6.7	92	0.00
4	Chloromethane	0.591	0.520	12.0	90	0.00
5 T	Vinyl Chloride	0.582	0.479	17.7	88	0.00
6 T	Bromomethane	0.233	0.205	12.0	93	0.00
7	Chloroethane	0.227	0.190	16.3	87	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.109	7.5	91	0.00
9 T	Propene	0.700	0.624	10.9	88	0.00
10 T	Heptane	1.874	1.685	10.1	90	0.00
11 T	Trichlorofluoromethane	1.446	1.259	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.017	11.7	89	0.00
13	Ethanol	0.064	0.049#	23.4	97	0.00
14 T	Bromoethene	0.417	0.380	8.9	92	0.00
15 T	Acetone	1.323	0.977	26.2	95	0.00
16 T	1,3-Butadiene	0.600	0.497	17.2	91	0.00
17	tert-Butyl alcohol	1.569	1.359	13.4	91	0.00
18 T	1,1-Dichloroethene	0.507	0.460	9.3	90	0.00
19 T	Isopropyl Alcohol	0.790	0.644	18.5	91	0.00
20 T	Methylene Chloride	0.554	0.390	29.6	87	0.00
21 T	Allyl Chloride	0.935	0.837	10.5	91	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.522	10.9	89	0.00
23 T	Vinyl Acetate	1.819	1.617	11.1	89	0.00
24 T	1,1-Dichloroethane	1.171	1.042	11.0	92	0.00
25 T	Ethyl Acetate	3.202	2.958	7.6	93	0.00
26 T	Hexane	1.478	1.366	7.6	90	0.00
27 T	Carbon Disulfide	1.438	1.271	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.670	11.1	93	0.00
29 T	Chloroform	2.110	1.978	6.3	94	0.00
30 T	Cyclohexane	1.296	1.204	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.357	8.1	93	0.00
32 T	1,1,1-Trichloroethane	2.230	2.064	7.4	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.675	0.617	8.6	92	0.00
35 T	Carbon Tetrachloride	0.689	0.653	5.2	93	0.00
36 T	Benzene	0.958	0.919	4.1	91	0.00
37 T	1,2-Dichloroethane	0.500	0.500	0.0	94	0.00
38 T	Trichloroethene	0.437	0.402	8.0	91	0.00
39 T	1,2-Dichloropropane	0.350	0.330	5.7	92	0.00
40 T	1,4-Dioxane	0.166	0.148	10.8	90	0.00
41 T	Tetrahydrofuran	0.376	0.353	6.1	90	0.00
42 T	Bromodichloromethane	0.745	0.721	3.2	92	0.00
43	Methyl Methacrylate	0.394	0.364	7.6	90	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.510	7.1	90	0.00
45 T	t-1,3-Dichloropropene	0.445	0.429	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.534	3.8	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.354	4.6	94	0.00
48 T	Dibromochloromethane	0.600	0.582	3.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.467	5.7	86	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.861	5.7	88	0.00
51 T	2-Hexanone	0.718	0.703	2.1	91	0.00
52 T	Tetrachloroethene	0.346	0.296	14.5	86	0.00
53 T	Toluene	1.138	1.063	6.6	90	0.00
54 T	1,2-Dibromoethane	0.542	0.516	4.8	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.480	7.2	91	0.00
57 T	Chlorobenzene	0.951	0.892	6.2	91	0.00
58 T	Ethyl Benzene	1.765	1.661	5.9	91	0.00
59 T	m/p-Xylene	1.383	1.297	6.2	91	0.02
60 T	o-Xylene	1.391	1.286	7.5	91	0.00
61 T	Styrene	0.652	0.611	6.3	90	0.00
62	Isopropylbenzene	2.033	1.872	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.675	11.8	90	0.00
64	n-propylbenzene	0.519	0.474	8.7	90	0.00
65	tert-Butylbenzene	1.793	1.604	10.5	90	0.00
66 T	Benzyl Chloride	0.228	0.206	9.6	81	0.00
67	sec-Butylbenzene	2.516	2.287	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.756	-0.8	90	0.00
69	p-Isopropyltoluene	2.160	1.903	11.9	90	0.00
70	n-Butylbenzene	2.142	1.941	9.4	91	0.00
71	2-Chlorotoluene	1.579	1.455	7.9	92	0.00
72 T	4-Ethyltoluene	1.687	1.575	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.306	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.408	10.5	91	0.00
75 T	1,3-Dichlorobenzene	0.895	0.824	7.9	89	0.00
76 T	1,4-Dichlorobenzene	0.905	0.813	10.2	88	0.00
77 T	1,2-Dichlorobenzene	0.876	0.766	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.559	22.1	88	0.00
79 T	Naphthalene	1.427	1.325	7.1	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.437	18.0	82	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.647	9.8	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	10.000	9.105	8.9	91	0.00
3	Chlorodifluoromethane	10.000	9.327	6.7	92	0.00
4	Chloromethane	10.000	8.784	12.2	90	0.00
5 T	Vinyl Chloride	10.000	8.232	17.7	88	0.00
6 T	Bromomethane	10.000	8.801	12.0	93	0.00
7	Chloroethane	10.000	8.360	16.4	87	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.248	7.5	91	0.00
9 T	Propene	10.000	8.922	10.8	88	0.00
10 T	Heptane	10.000	8.990	10.1	90	0.00
11 T	Trichlorofluoromethane	10.000	8.707	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.824	11.8	89	0.00
13	Ethanol	10.000	7.678	23.2	97	0.00
14 T	Bromoethene	10.000	9.105	8.9	92	0.00
15 T	Acetone	10.000	7.389	26.1	95	0.00
16 T	1,3-Butadiene	10.000	8.285	17.1	91	0.00
17	tert-Butyl alcohol	10.000	8.663	13.4	91	0.00
18 T	1,1-Dichloroethene	10.000	9.087	9.1	90	0.00
19 T	Isopropyl Alcohol	10.000	8.146	18.5	91	0.00
20 T	Methylene Chloride	10.000	7.041	29.6	87	0.00
21 T	Allyl Chloride	10.000	8.956	10.4	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.904	11.0	89	0.00
23 T	Vinyl Acetate	10.000	8.891	11.1	89	0.00
24 T	1,1-Dichloroethane	10.000	8.903	11.0	92	0.00
25 T	Ethyl Acetate	10.000	9.240	7.6	93	0.00
26 T	Hexane	10.000	9.246	7.5	90	0.00
27 T	Carbon Disulfide	10.000	8.841	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.898	11.0	93	0.00
29 T	Chloroform	10.000	9.377	6.2	94	0.00
30 T	Cyclohexane	10.000	9.289	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.196	8.0	93	0.00
32 T	1,1,1-Trichloroethane	10.000	9.256	7.4	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.135	8.7	92	0.00
35 T	Carbon Tetrachloride	10.000	9.478	5.2	93	0.00
36 T	Benzene	10.000	9.592	4.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.991	0.1	94	0.00
38 T	Trichloroethene	10.000	9.202	8.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.436	5.6	92	0.00
40 T	1,4-Dioxane	10.000	8.879	11.2	90	0.00
41 T	Tetrahydrofuran	10.000	9.372	6.3	90	0.00
42 T	Bromodichloromethane	10.000	9.678	3.2	92	0.00
43	Methyl Methacrylate	10.000	9.229	7.7	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.290	7.1	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.645	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.628	3.7	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.553	4.5	94	0.00
48 T	Dibromochloromethane	10.000	9.708	2.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	9.446	5.5	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.430	5.7	88	0.00
51 T	2-Hexanone	10.000	9.791	2.1	91	0.00
52 T	Tetrachloroethene	10.000	8.544	14.6	86	0.00
53 T	Toluene	10.000	9.340	6.6	90	0.00
54 T	1,2-Dibromoethane	10.000	9.535	4.6	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.291	7.1	91	0.00
57 T	Chlorobenzene	10.000	9.378	6.2	91	0.00
58 T	Ethyl Benzene	10.000	9.414	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.754	6.2	91	0.02
60 T	o-Xylene	10.000	9.239	7.6	91	0.00
61 T	Styrene	10.000	9.377	6.2	90	0.00
62	Isopropylbenzene	10.000	9.206	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.826	11.7	90	0.00
64	n-propylbenzene	10.000	9.145	8.6	90	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	9.031	9.7	81	0.00
67	sec-Butylbenzene	10.000	9.088	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.086	-0.9	90	0.00
69	p-Isopropyltoluene	10.000	8.810	11.9	90	0.00
70	n-Butylbenzene	10.000	9.062	9.4	91	0.00
71	2-Chlorotoluene	10.000	9.214	7.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.338	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.108	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.943	10.6	91	0.00
75 T	1,3-Dichlorobenzene	10.000	9.209	7.9	89	0.00
76 T	1,4-Dichlorobenzene	10.000	8.976	10.2	88	0.00
77 T	1,2-Dichlorobenzene	10.000	8.736	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.778	22.2	88	0.00
79 T	Naphthalene	10.000	9.284	7.2	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.188	18.1	82	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.016	9.8	88	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>APEX04</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3038</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>09/08/2025 11:05</u>
Lab File ID:	<u>VL042900.D</u>	Init. Calib. Date(s):	<u>08/13/2025 08/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:30 12:06</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.582	0.560		-3.78	30
1,2-Dichloroethane	0.500	0.635		27	30
Trichloroethene	0.437	0.455		4.12	30
Tetrachloroethene	0.346	0.331		-4.34	30
1-Bromo-4-Fluorobenzene	0.750	0.786		4.8	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\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	126678	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	333606	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	282770	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 222314 10.483 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	195136	10.511	ppbv	100
3) Chlorodifluoromethane	1.470	51	223887	10.910	ppbv	98
4) Chloromethane	1.528	50	74830	9.988	ppbv	99
5) Vinyl Chloride	1.577	62	70899	9.609	ppbv	99
6) Bromomethane	1.664	94	28498	9.659	ppbv	99
7) Chloroethane	1.700	64	28496	9.889	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	158303	10.420	ppbv	96
9) Propene	1.476	41	88702	10.009	ppbv	99
10) Heptane	4.959	43	234952	9.898	ppbv	98
11) Trichlorofluoromethane	1.871	101	188309	10.280	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	147287	10.089	ppbv	96
13) Ethanol	1.716	45	6525	8.052	ppbv	98
14) Bromoethene	1.777	108	53755	10.171	ppbv	99
15) Acetone	1.829	43	145289	8.670	ppbv	98
16) 1,3-Butadiene	1.602	39	70713	9.308	ppbv	100
17) tert-Butyl alcohol	2.033	59	170394	8.574	ppbv	99
18) 1,1-Dichloroethene	2.026	96	63544	9.900	ppbv	94
19) Isopropyl Alcohol	1.881	45	89009	8.893	ppbv	95
20) Methylene Chloride	2.056	84	57698	8.219	ppbv	93
21) Allyl Chloride	2.088	41	114332	9.658	ppbv	94
22) trans-1,2-Dichloroethene	2.331	96	74045	9.971	ppbv	93
23) Vinyl Acetate	2.454	43	228268	9.907	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	152618	10.291	ppbv	99
25) Ethyl Acetate	2.826	43	415386	10.242	ppbv	99
26) Hexane	2.816	57	187779	10.031	ppbv	95
27) Carbon Disulfide	2.143	76	193262	10.608	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	85774	8.986	ppbv	93
29) Chloroform	2.839	83	281659	10.538	ppbv	98
30) Cyclohexane	3.842	84	153066	9.326	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	182592	9.765	ppbv	99
32) 1,1,1-Trichloroethane	3.357	97	271429	9.609	ppbv	96
34) 2-Butanone	2.548	43	272735	12.107	ppbv	98
35) Carbon Tetrachloride	3.748	117	269097	11.700	ppbv	99
36) Benzene	3.645	78	366027	11.458	ppbv	97
37) 1,2-Dichloroethane	3.208	62	211728	12.686	ppbv	98
38) Trichloroethene	4.532	130	151915	10.413	ppbv	95
39) 1,2-Dichloropropane	4.299	63	139657	11.970	ppbv	96
40) 1,4-Dioxane	4.561	88	56013	10.096	ppbv #	88
41) Tetrahydrofuran	3.043	42	148990	11.863	ppbv	96
42) Bromodichloromethane	4.473	83	301814	12.136	ppbv	98
43) Methyl Methacrylate	4.859	69	141813	10.776	ppbv	95
44) 2,2,4-Trimethylpentane	4.622	57	631245	11.642	ppbv	99
45) t-1,3-Dichloropropene	6.393	75	154622	10.411	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

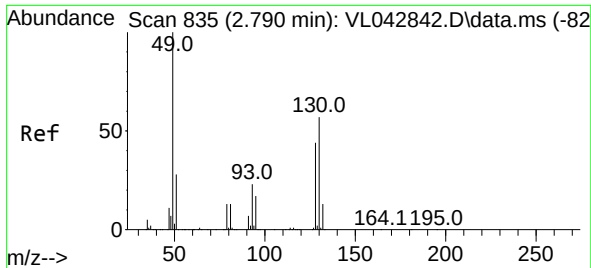
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

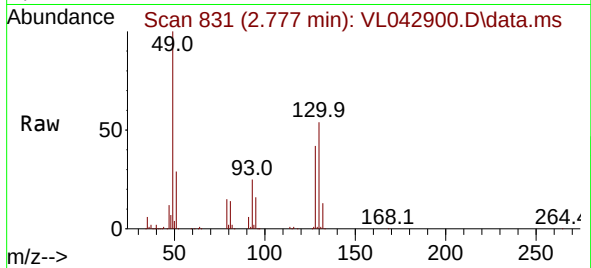
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv	98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv	98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv	100
49) Bromoform	9.471	173	184068	11.158	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	359329	11.801	ppbv	96
51) 2-Hexanone	7.419	43	284454	11.872	ppbv #	95
52) Tetrachloroethene	8.212	164	110334	9.547	ppbv	98
53) Toluene	6.914	91	402080	10.587	ppbv	100
54) 1,2-Dibromoethane	7.636	107	204276	11.307	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.914	131	170319	11.648	ppbv	99
57) Chlorobenzene	8.911	112	311373	11.581	ppbv	97
58) Ethyl Benzene	9.345	91	558102	11.184	ppbv	99
59) m/p-Xylene	9.539	91	914783m	23.388	ppbv	
60) o-Xylene	9.953	91	460968	11.716	ppbv	100
61) Styrene	9.859	104	195007	10.579	ppbv	99
62) Isopropylbenzene	10.529	105	655164	11.394	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.953	83	266435	12.314	ppbv	100
64) n-propylbenzene	10.979	120	164610	11.220	ppbv	90
65) tert-Butylbenzene	11.523	119	561409	11.075	ppbv	97
66) Benzyl Chloride	11.607	91	50803	7.895	ppbv #	98
67) sec-Butylbenzene	11.759	105	833114	11.709	ppbv	98
69) p-Isopropyltoluene	11.918	119	667558	10.929	ppbv	99
70) n-Butylbenzene	12.274	91	711012	11.736	ppbv	98
71) 2-Chlorotoluene	10.892	91	498072	11.156	ppbv	97
72) 4-Ethyltoluene	11.118	105	554411	11.624	ppbv	98
73) 1,3,5-Trimethylbenzene	11.196	105	450409	11.105	ppbv	98
74) 1,2,4-Trimethylbenzene	11.529	105	508605	11.424	ppbv	95
75) 1,3-Dichlorobenzene	11.597	146	289650	11.445	ppbv	99
76) 1,4-Dichlorobenzene	11.662	146	287352	11.226	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	281307	11.351	ppbv	99
78) Hexachloro-1,3-Butadiene	13.873	225	167893	8.266	ppbv	99
79) Naphthalene	13.504	128	428355	10.613	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	127751	8.470	ppbv	96
81) 1,2,4-Trichlorobenzene	13.432	180	207455	10.226	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

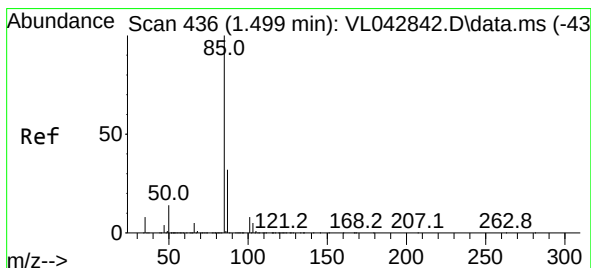
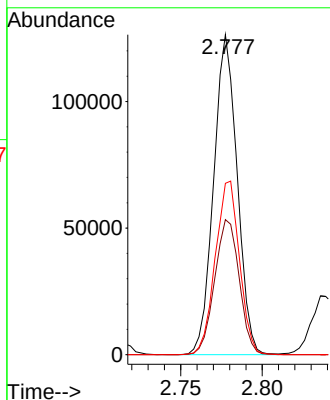
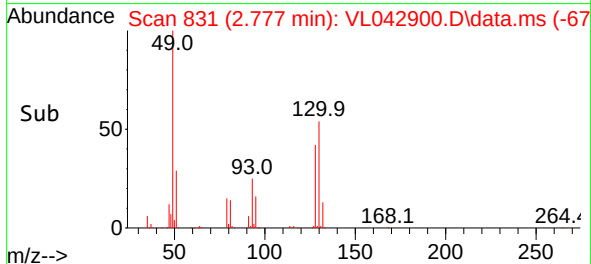
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



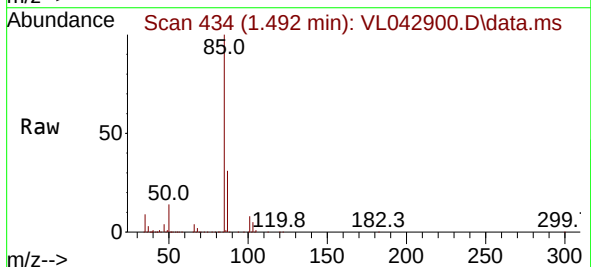
Tgt Ion: 49 Resp: 126678
Ion Ratio Lower Upper
49 100
128 44.1 23.7 71.1
130 55.7 30.6 91.6

Manual Integrations
APPROVED

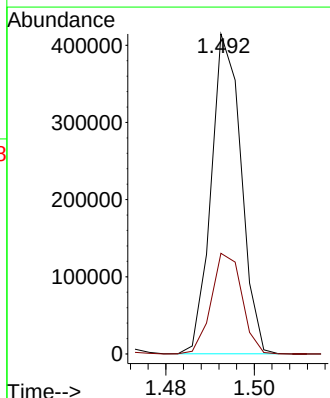
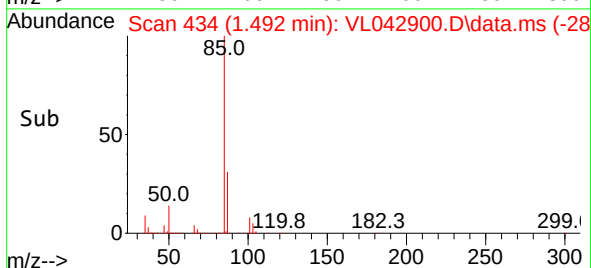
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

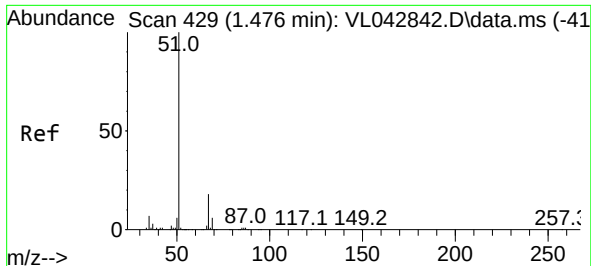


#2
Dichlorodifluoromethane
Concen: 10.511 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



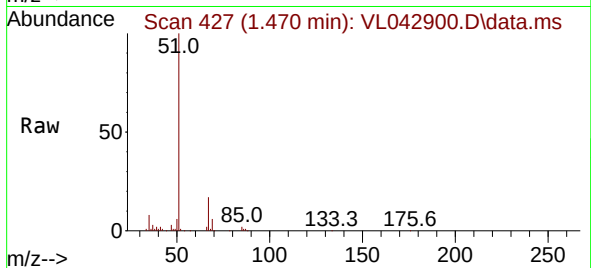
Tgt Ion: 85 Resp: 195136
Ion Ratio Lower Upper
85 100
87 31.4 25.3 37.9





#3
Chlorodifluoromethane
Concen: 10.910 ppbv
RT: 1.470 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

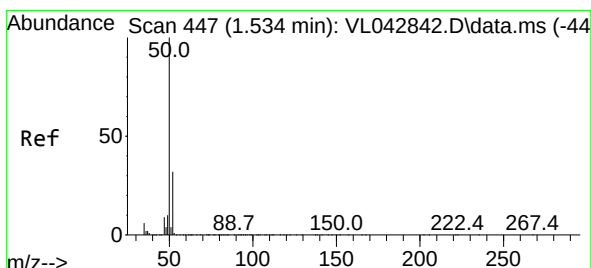
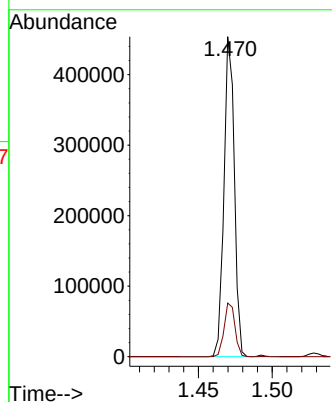
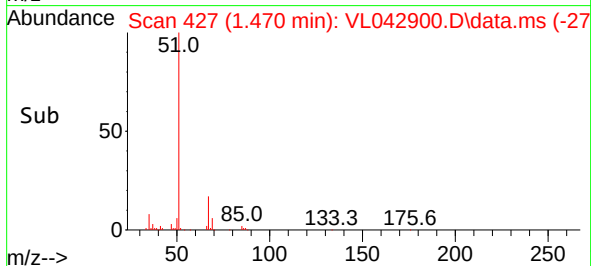
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 51 Resp: 22388
Ion Ratio Lower Upper
51 100
67 17.5 14.9 22.3

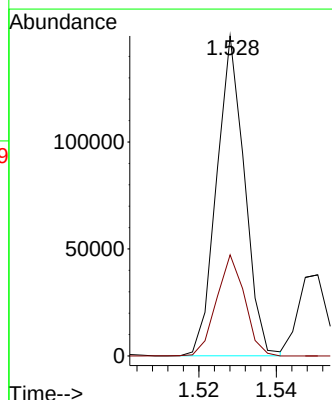
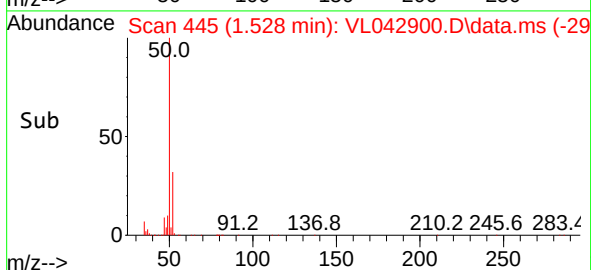
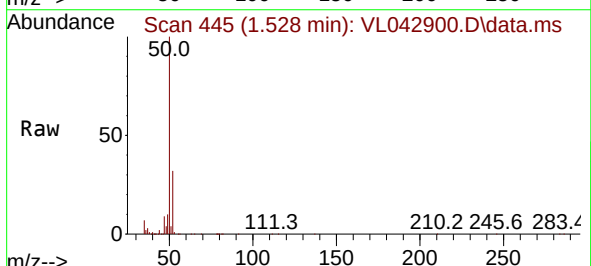
Manual Integrations
APPROVED

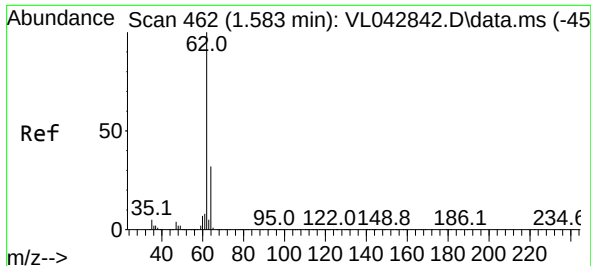
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 9.988 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

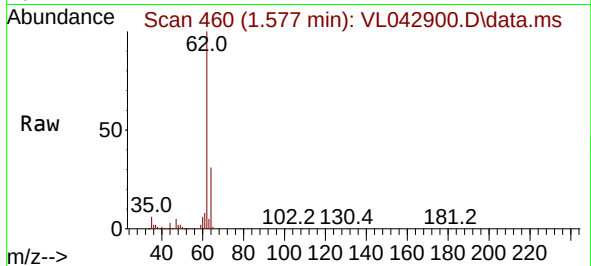
Tgt Ion: 50 Resp: 74830
Ion Ratio Lower Upper
50 100
52 31.6 25.9 38.9





#5
 Vinyl Chloride
 Concen: 9.609 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

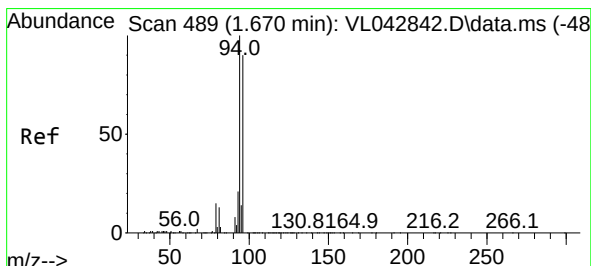
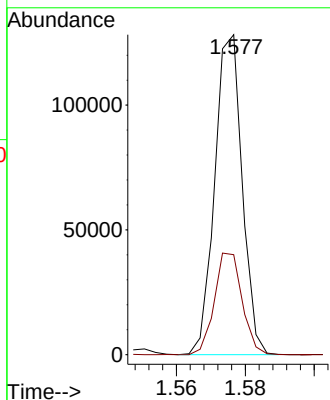
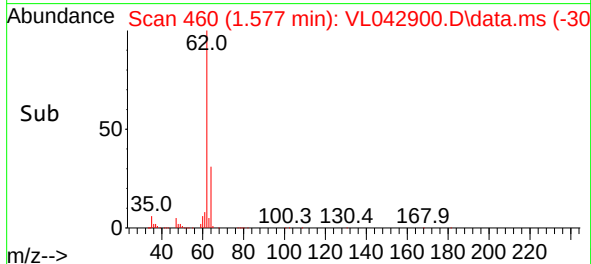
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



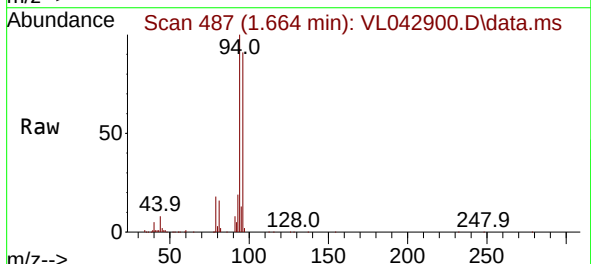
Tgt Ion: 62 Resp: 70899
 Ion Ratio Lower Upper
 62 100
 64 31.3 25.4 38.2

Manual Integrations
 APPROVED

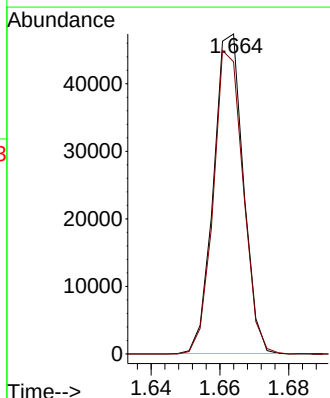
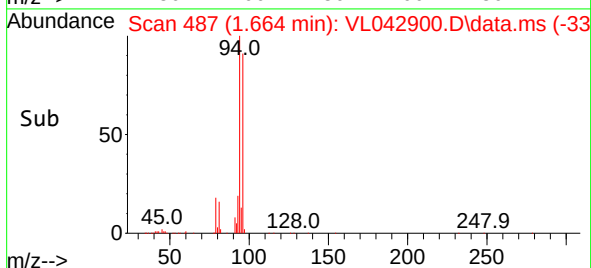
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

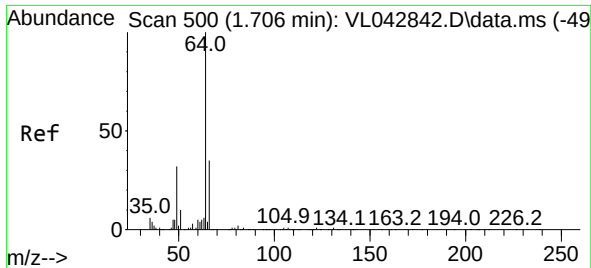


#6
 Bromomethane
 Concen: 9.659 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



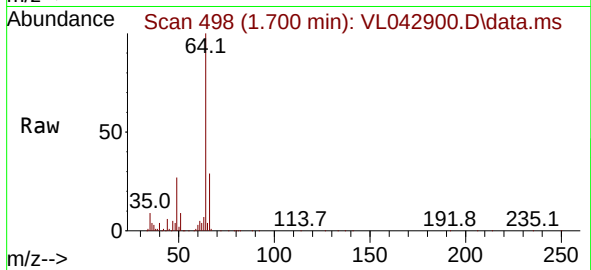
Tgt Ion: 94 Resp: 28498
 Ion Ratio Lower Upper
 94 100
 96 91.4 72.1 108.1





#7
Chloroethane
Concen: 9.889 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

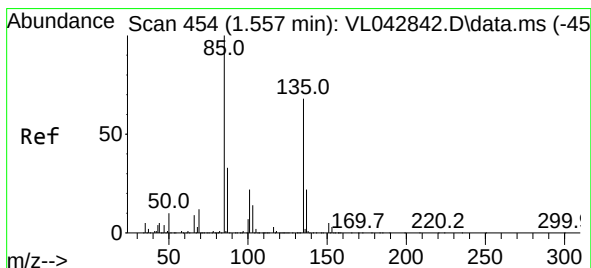
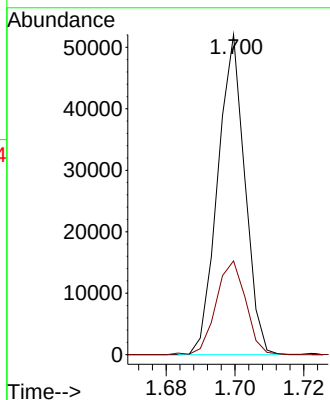
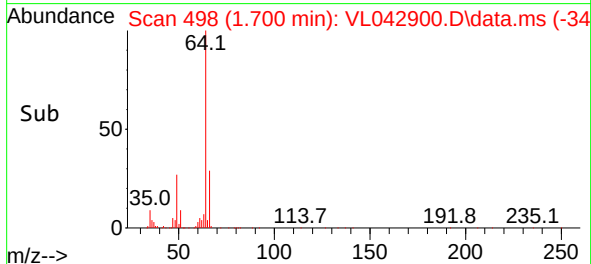
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



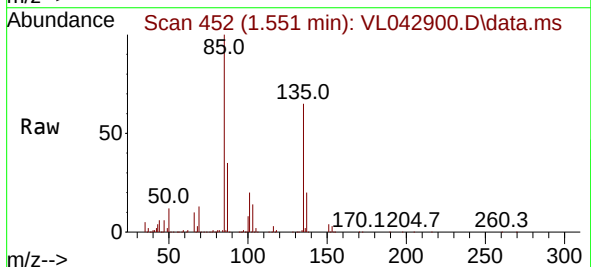
Tgt Ion: 64 Resp: 28490
Ion Ratio Lower Upper
64 100
66 29.3 28.6 42.8

Manual Integrations
APPROVED

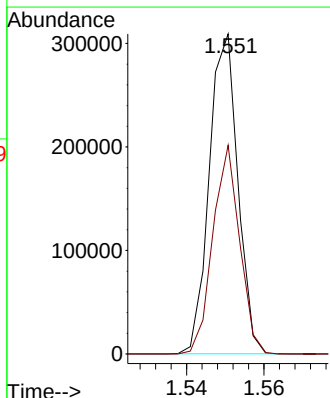
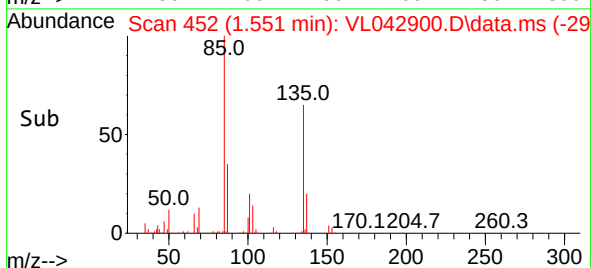
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

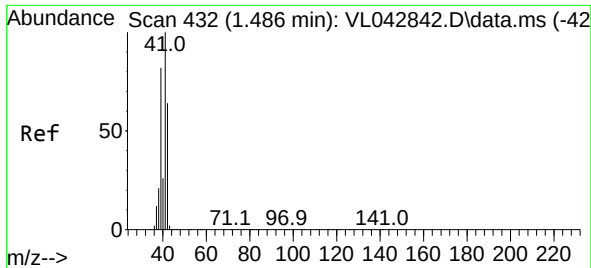


#8
Dichlorotetrafluoroethane
Concen: 10.420 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



Tgt Ion: 85 Resp: 158303
Ion Ratio Lower Upper
85 100
135 61.2 51.2 76.8





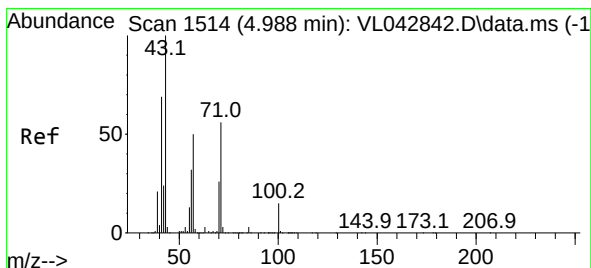
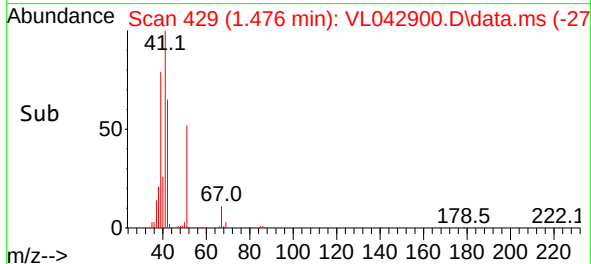
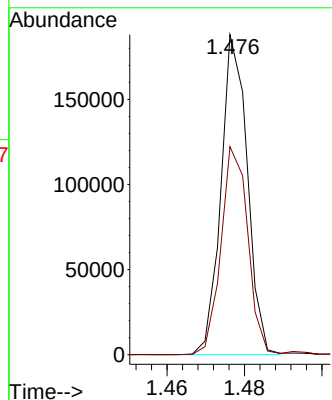
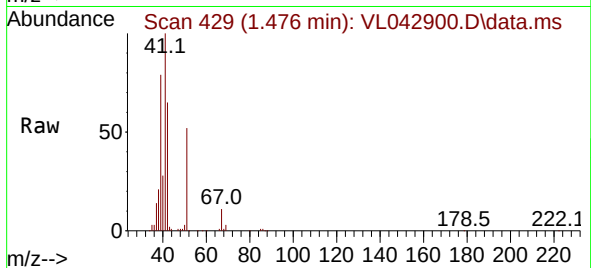
#9
 Propene
 Concen: 10.009 ppbv
 RT: 1.476 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 88702
 Ion Ratio Lower Upper
 41 100
 42 67.1 53.0 79.4

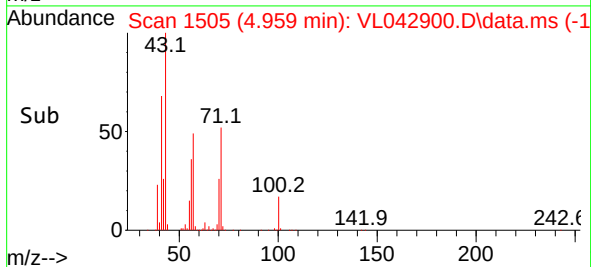
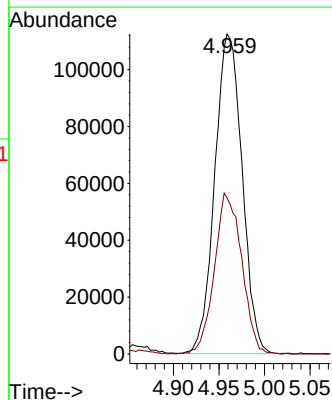
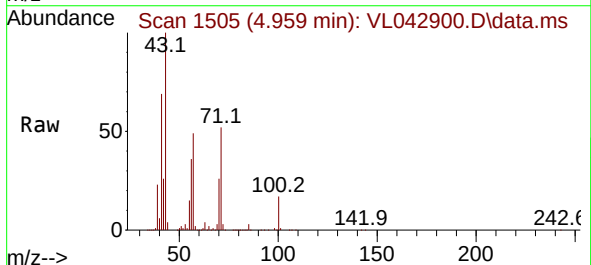
Manual Integrations
 APPROVED

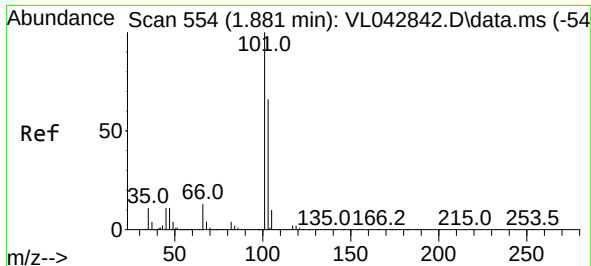
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#10
 Heptane
 Concen: 9.898 ppbv
 RT: 4.959 min Scan# 1505
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

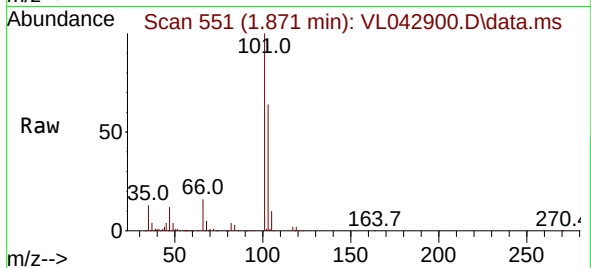
Tgt Ion: 43 Resp: 234952
 Ion Ratio Lower Upper
 43 100
 57 50.2 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 10.280 ppbv
 RT: 1.871 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

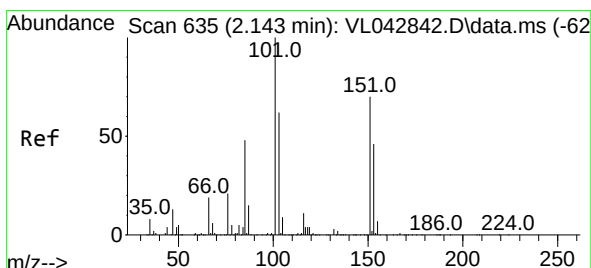
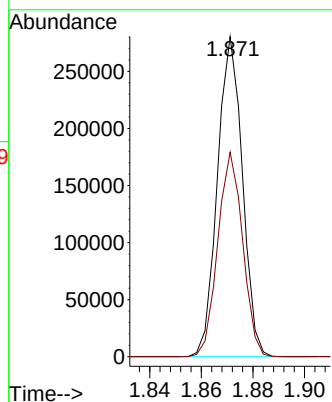
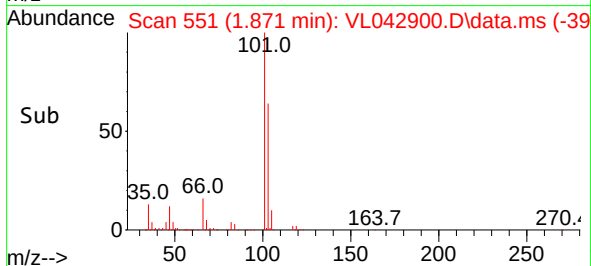
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



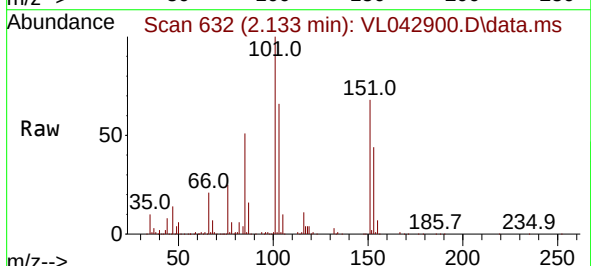
Tgt Ion:101 Resp: 188309
 Ion Ratio Lower Upper
 101 100
 103 63.9 52.5 78.7

Manual Integrations
 APPROVED

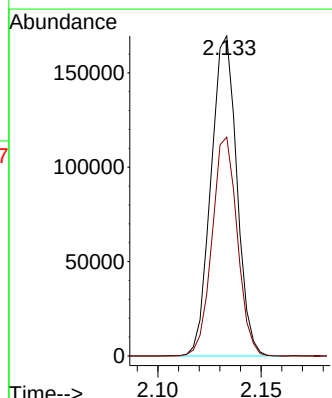
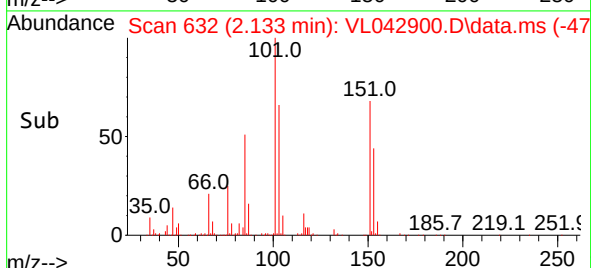
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

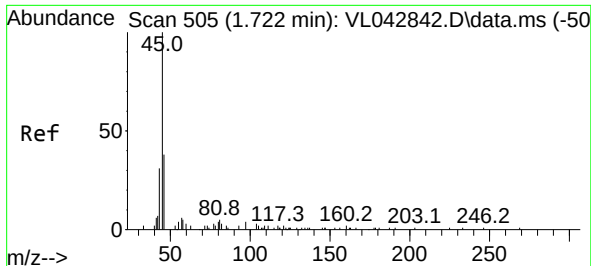


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.089 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



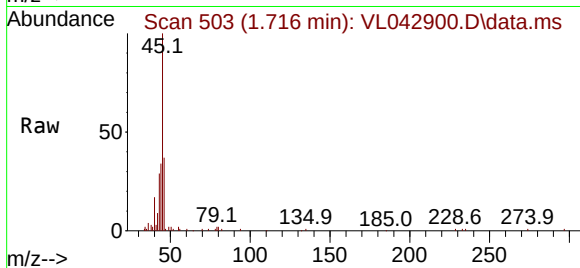
Tgt Ion:101 Resp: 147287
 Ion Ratio Lower Upper
 101 100
 151 66.9 56.4 84.6





#13
Ethanol
Concen: 8.052 ppbv
RT: 1.716 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

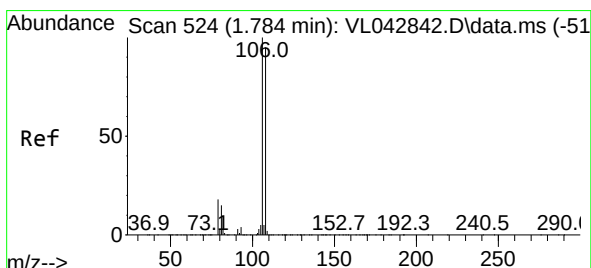
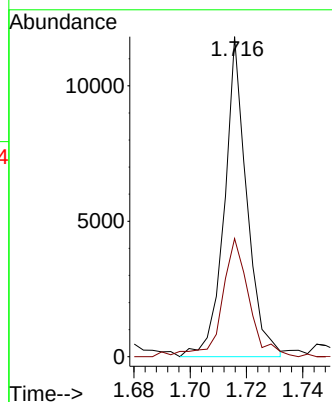
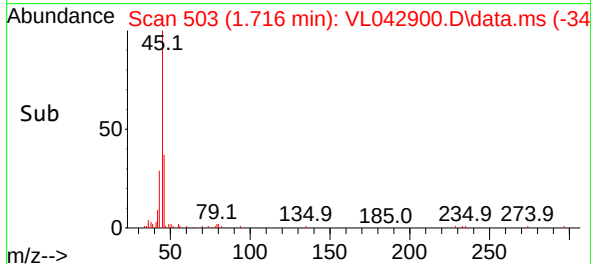
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



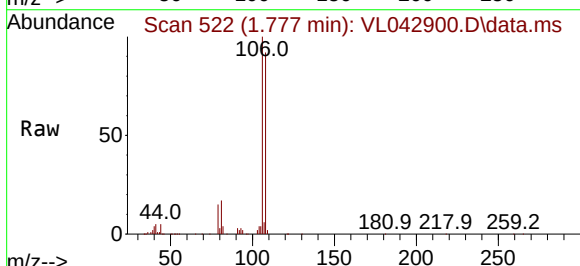
Tgt Ion: 45 Resp: 6529
Ion Ratio Lower Upper
45 100
46 44.8 17.5 69.9

Manual Integrations
APPROVED

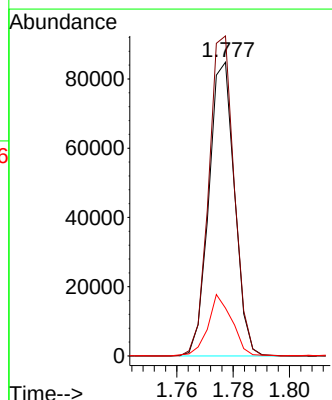
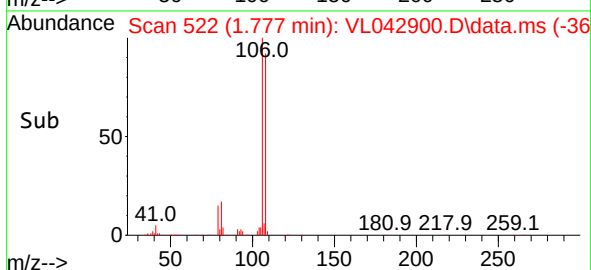
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

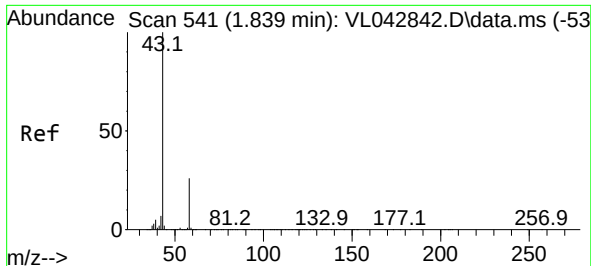


#14
Bromoethene
Concen: 10.171 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



Tgt Ion:108 Resp: 53755
Ion Ratio Lower Upper
108 100
106 107.9 85.1 127.7
79 19.9 16.3 24.5





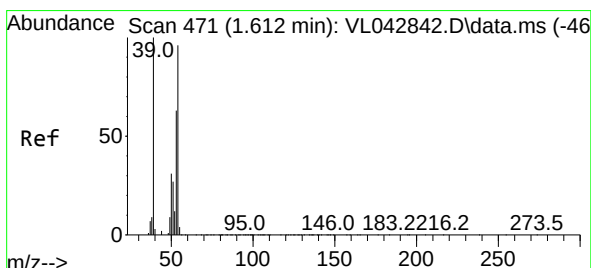
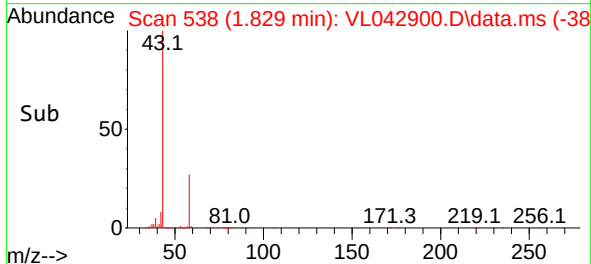
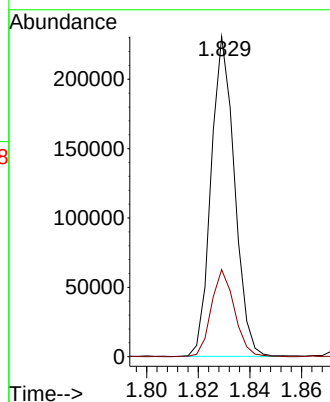
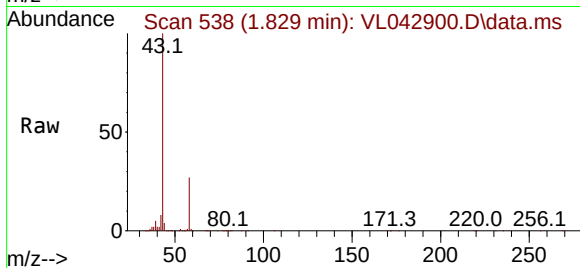
#15
Acetone
Concen: 8.670 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 145289
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

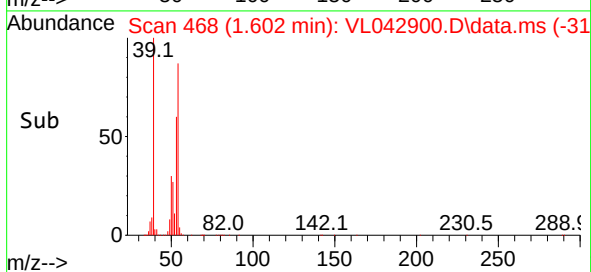
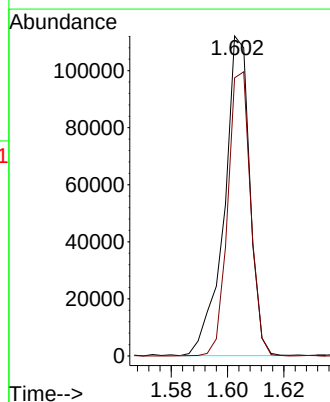
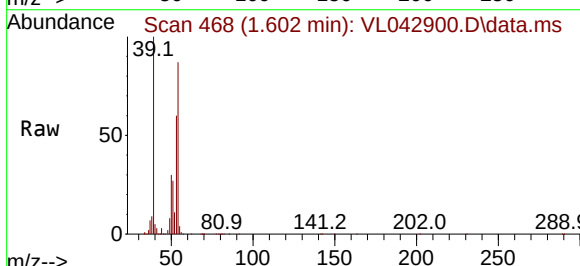
Manual Integrations
APPROVED

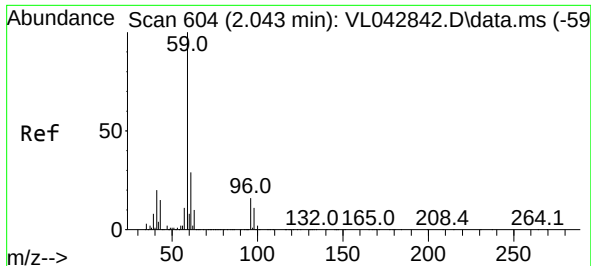
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#16
1,3-Butadiene
Concen: 9.308 ppbv
RT: 1.602 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 39 Resp: 70713
Ion Ratio Lower Upper
39 100
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.574 ppbv

RT: 2.033 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 170394

Ion Ratio Lower Upper

59 100

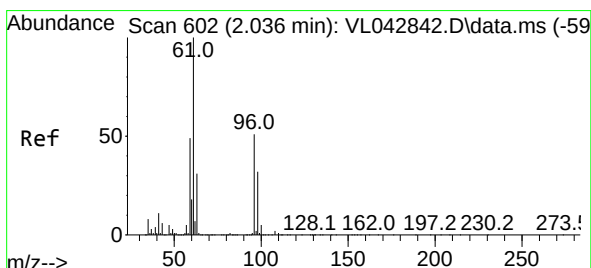
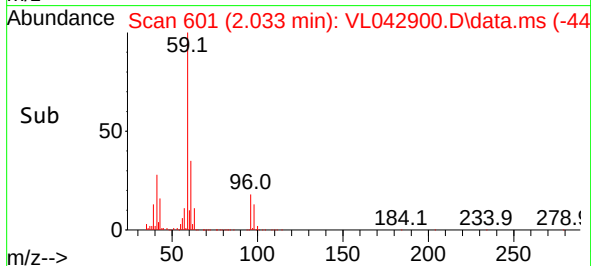
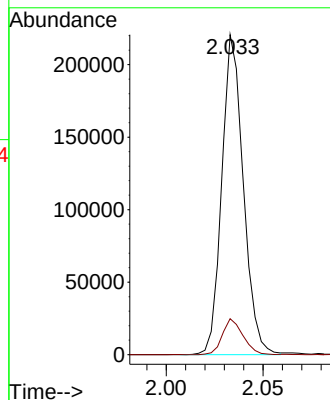
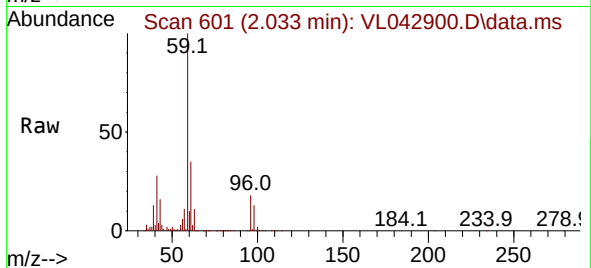
57 10.8 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#18

1,1-Dichloroethene

Concen: 9.900 ppbv

RT: 2.026 min Scan# 599

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

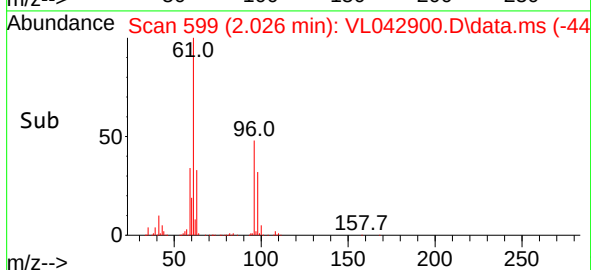
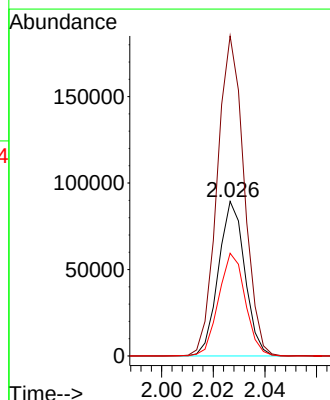
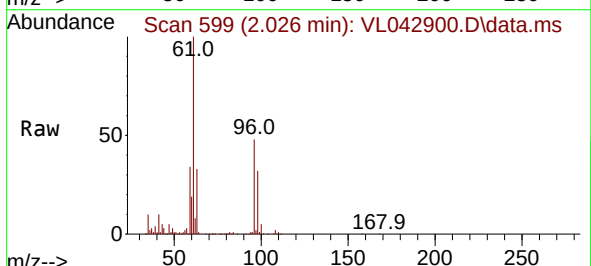
Tgt Ion: 96 Resp: 63544

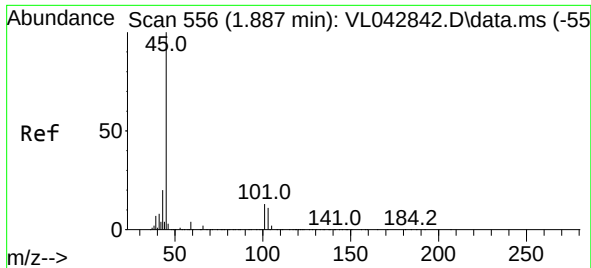
Ion Ratio Lower Upper

96 100

61 207.0 158.2 237.4

98 66.3 50.6 76.0





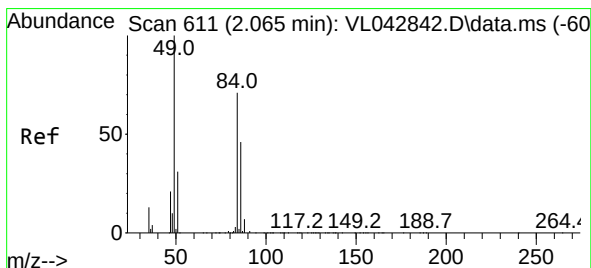
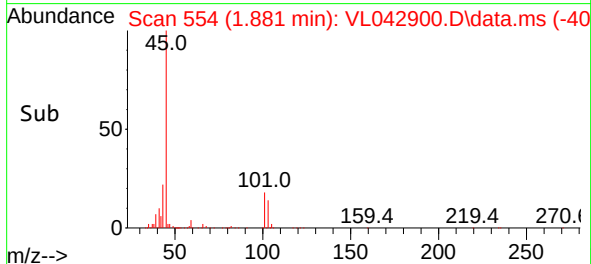
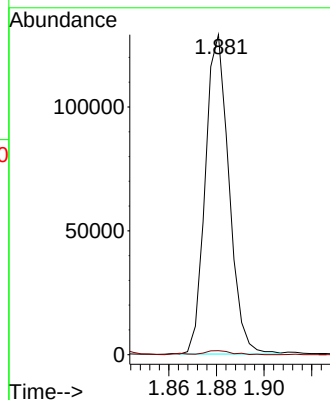
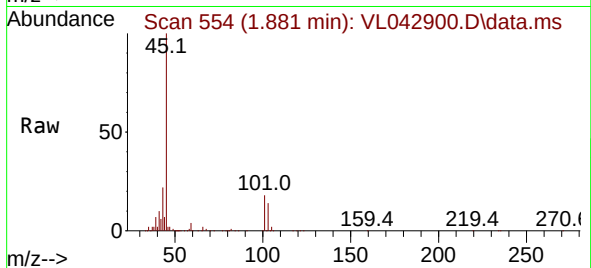
#19
Isopropyl Alcohol
Concen: 8.893 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 89009
Ion Ratio Lower Upper
45 100
58 44.1 32.7 49.1

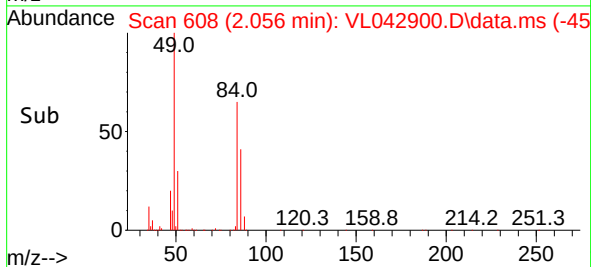
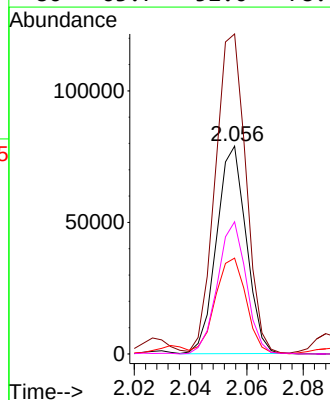
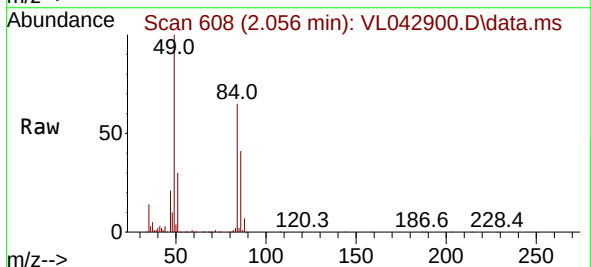
Manual Integrations
APPROVED

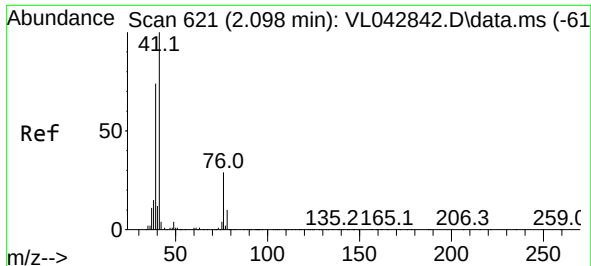
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 8.219 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

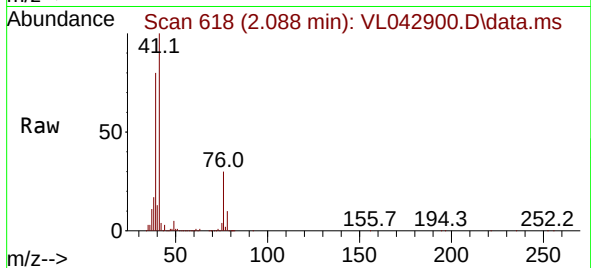
Tgt Ion: 84 Resp: 57698
Ion Ratio Lower Upper
84 100
49 153.6 112.3 168.5
51 45.6 36.0 54.0
86 63.7 52.0 78.0





#21
 Allyl Chloride
 Concen: 9.658 ppbv
 RT: 2.088 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

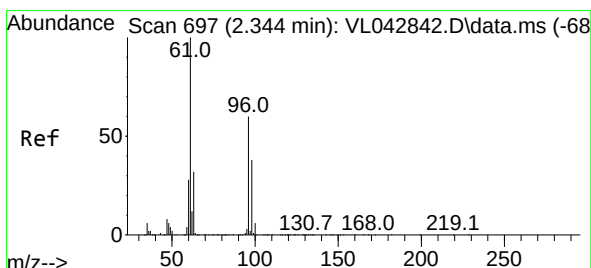
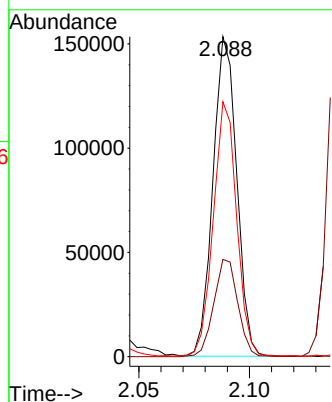
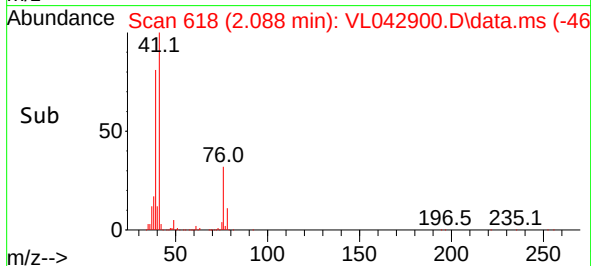
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 41 Resp: 11433
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 78.4 57.8 86.6

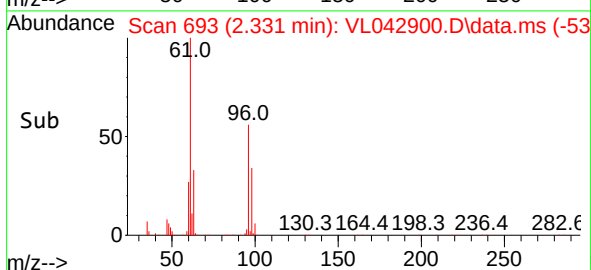
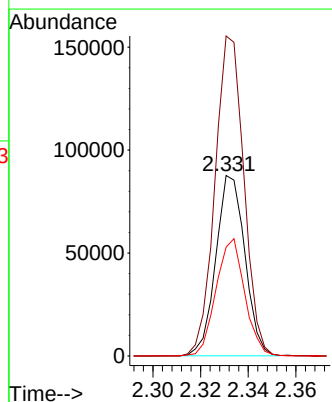
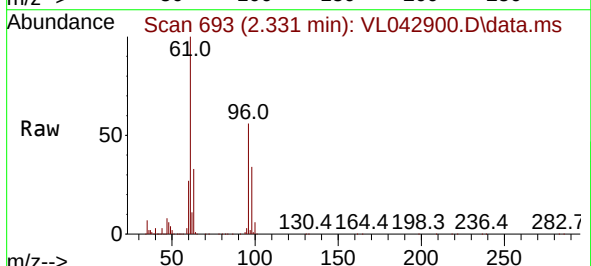
Manual Integrations
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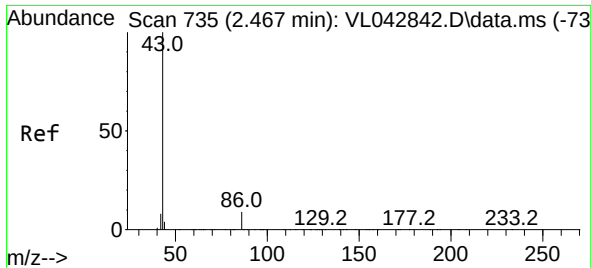
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.971 ppbv
 RT: 2.331 min Scan# 693
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 74045
 Ion Ratio Lower Upper
 96 100
 61 177.5 132.6 199.0
 98 60.3 50.0 75.0





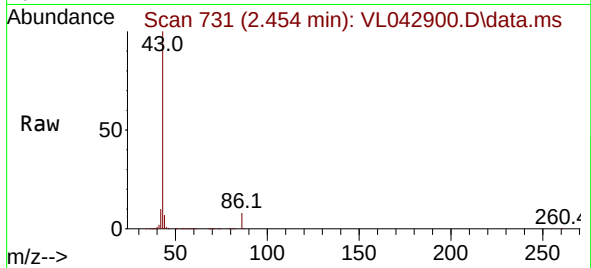
#23
 Vinyl Acetate
 Concen: 9.907 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

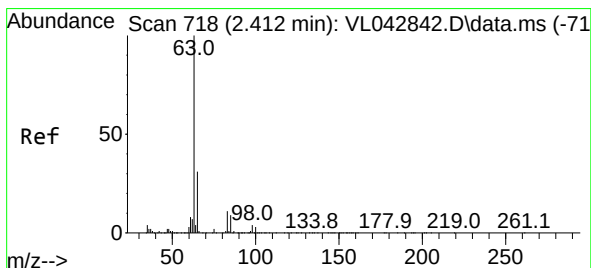
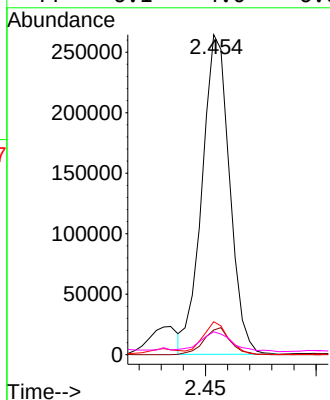
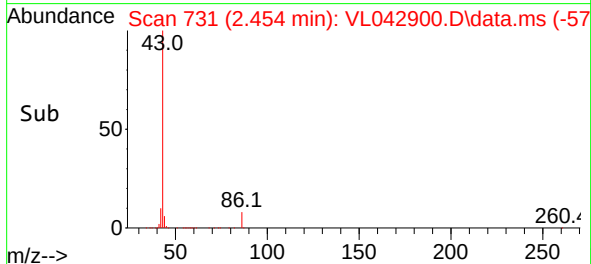


Tgt Ion: 43 Resp: 228268
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.6 9.8
 42 10.3 7.0 10.6
 44 6.1 4.0 6.0#

Manual Integrations

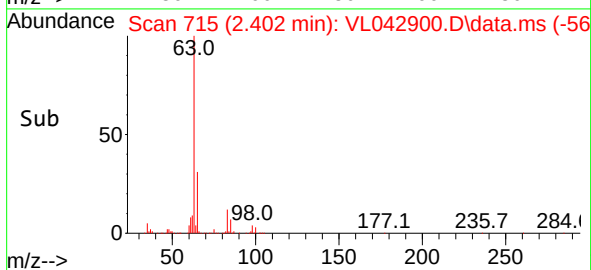
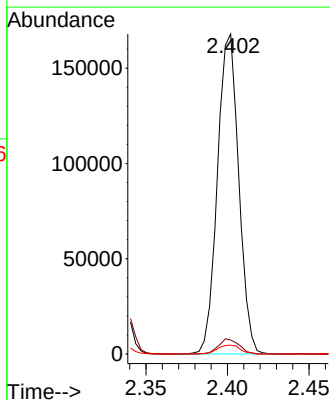
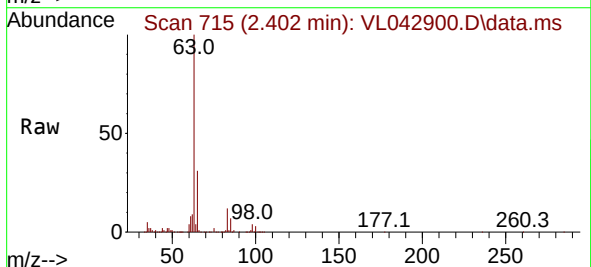
APPROVED

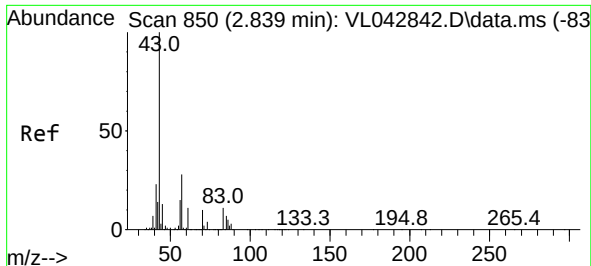
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#24
 1,1-Dichloroethane
 Concen: 10.291 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 63 Resp: 152618
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.1 6.5
 100 2.7 1.7 5.1





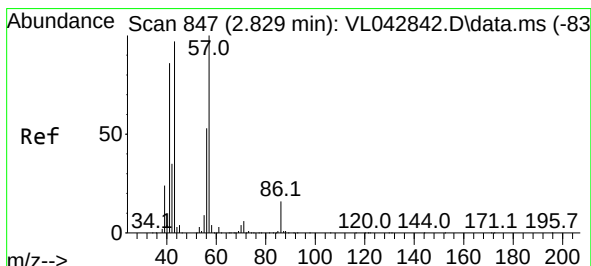
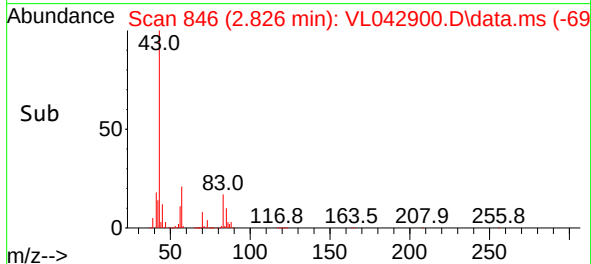
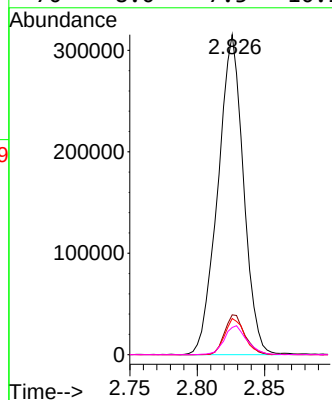
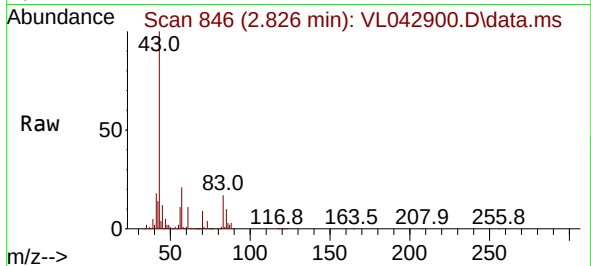
#25
Ethyl Acetate
Concen: 10.242 ppbv
RT: 2.826 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 415380
Ion Ratio Lower Upper
43 100
45 9.9 8.1 12.1
61 9.0 7.4 11.2
70 8.0 7.3 10.9

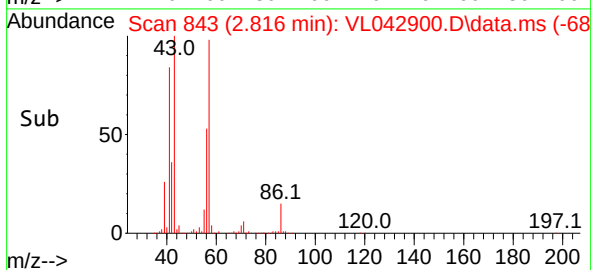
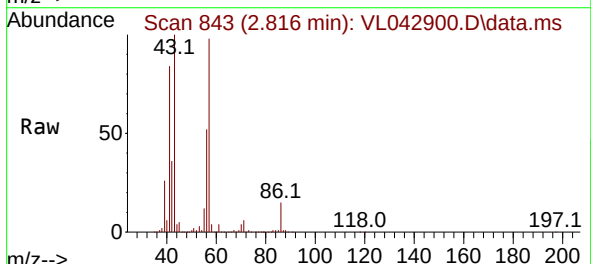
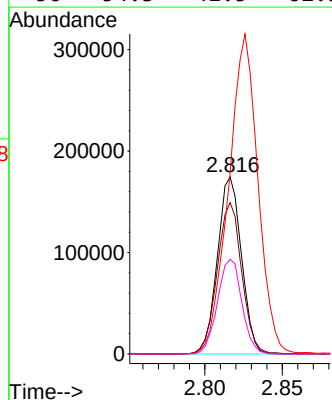
Manual Integrations
APPROVED

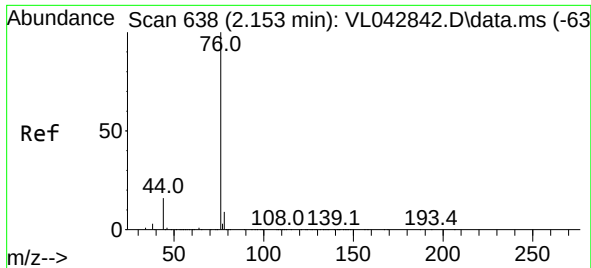
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#26
Hexane
Concen: 10.031 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

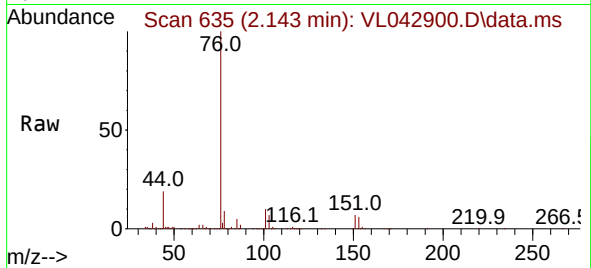
Tgt Ion: 57 Resp: 187779
Ion Ratio Lower Upper
57 100
41 87.6 68.6 103.0
43 222.1 168.5 252.7
56 54.3 41.5 62.3





#27
Carbon Disulfide
Concen: 10.608 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

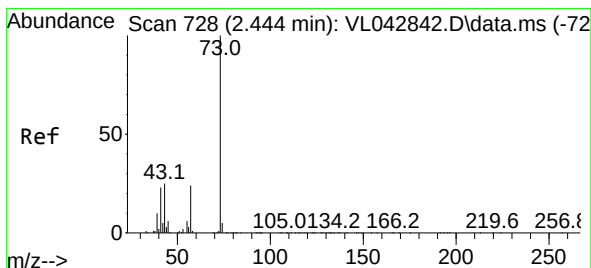
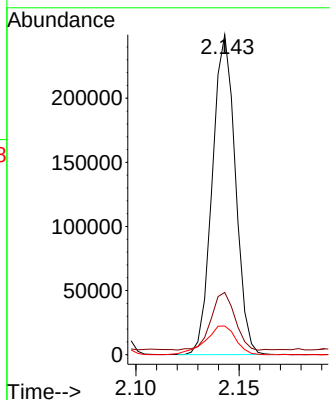
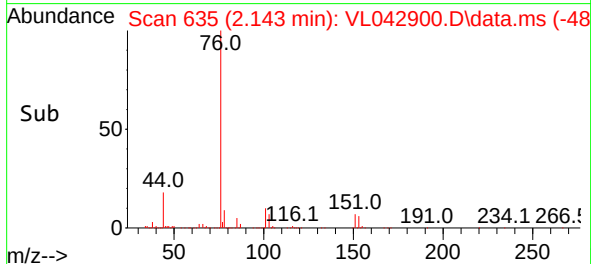
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



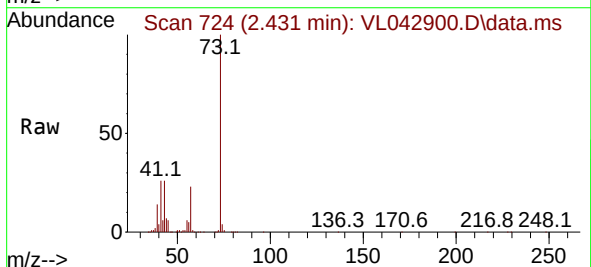
Tgt Ion: 76 Resp: 193262
Ion Ratio Lower Upper
76 100
44 18.7 15.9 23.9
78 11.8 9.5 14.3

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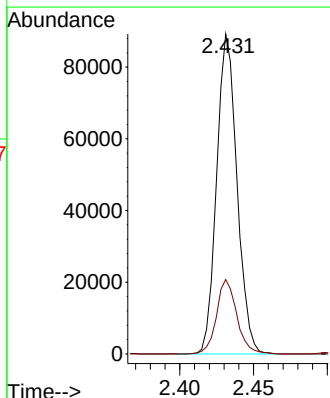
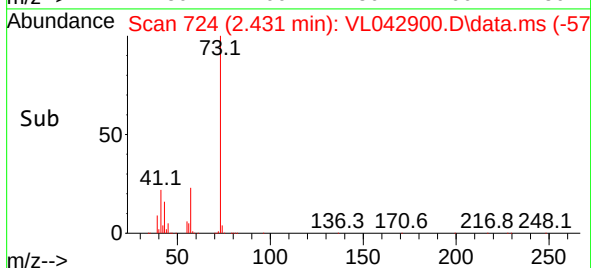
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

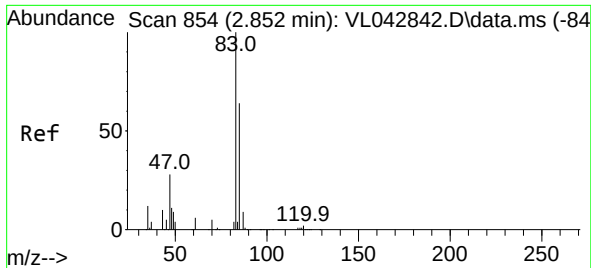


#28
Methyl tert-Butyl Ether
Concen: 8.986 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



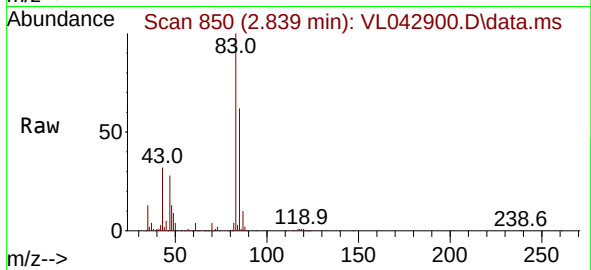
Tgt Ion: 73 Resp: 85774
Ion Ratio Lower Upper
73 100
57 23.3 21.6 32.4





#29
Chloroform
Concen: 10.538 ppbv
RT: 2.839 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

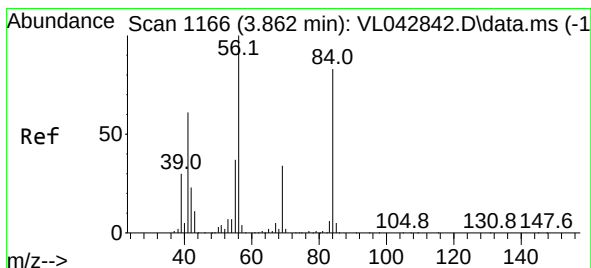
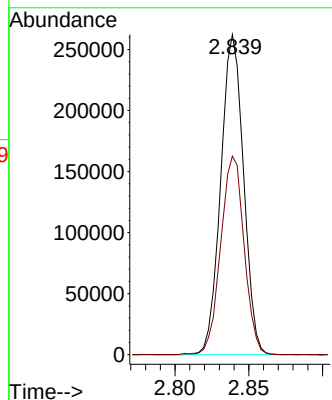
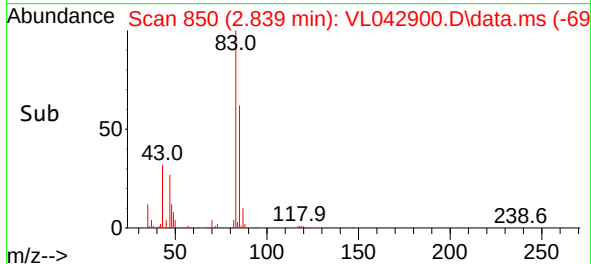
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 83 Resp: 281659
Ion Ratio Lower Upper
83 100
85 62.0 51.1 76.7

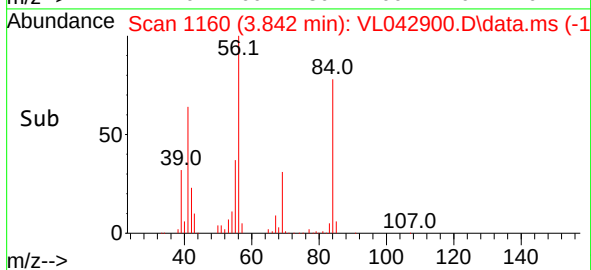
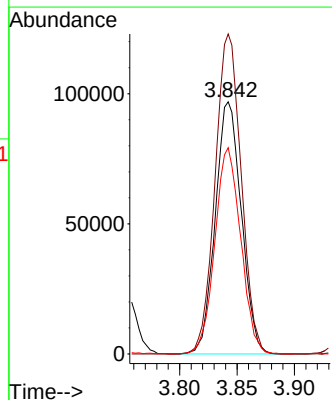
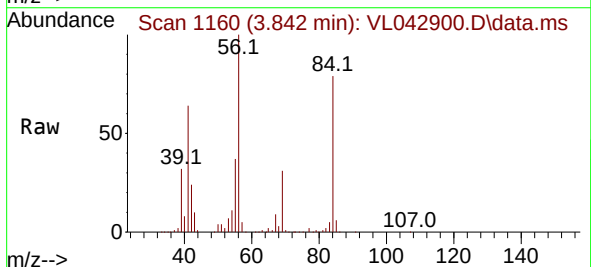
Manual Integrations
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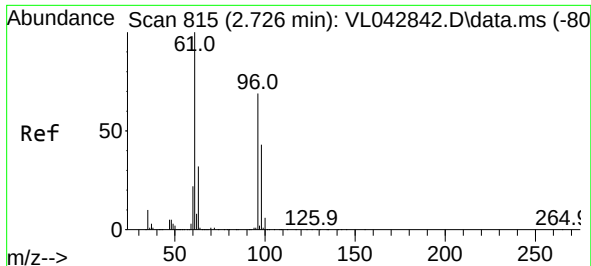
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#30
Cyclohexane
Concen: 9.326 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

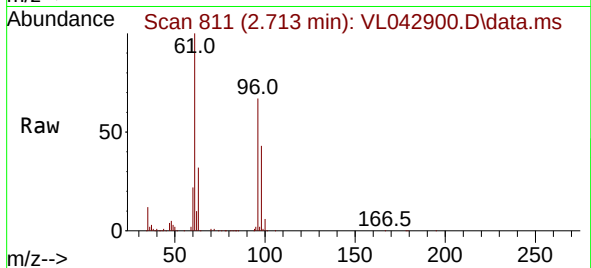
Tgt Ion: 84 Resp: 153066
Ion Ratio Lower Upper
84 100
56 127.0 98.8 148.2
41 81.3 61.3 91.9





#31
cis-1,2-Dichloroethene
Concen: 9.765 ppbv
RT: 2.713 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

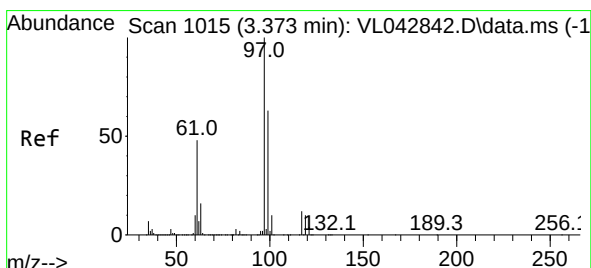
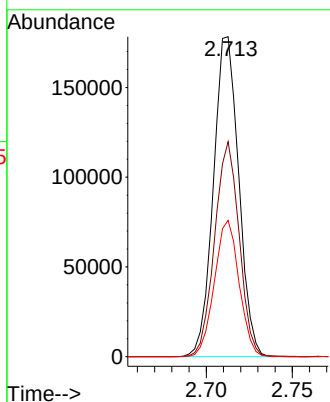
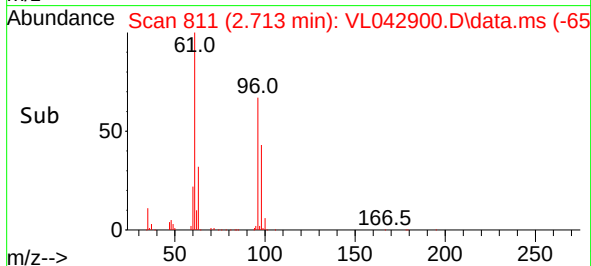
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



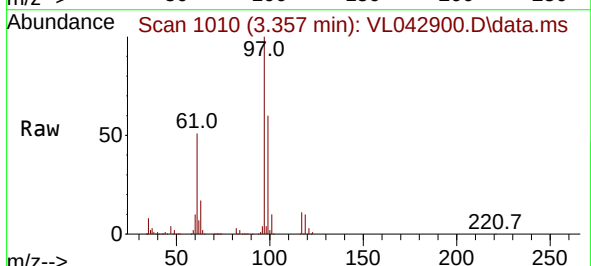
Tgt Ion: 61 Resp: 182592
Ion Ratio Lower Upper
61 100
96 67.1 55.0 82.6
98 42.6 34.3 51.5

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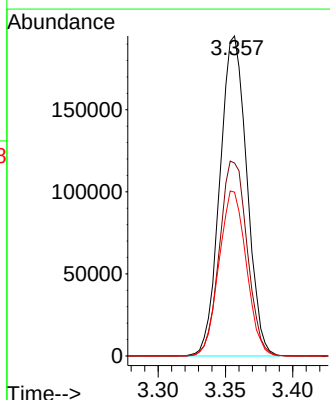
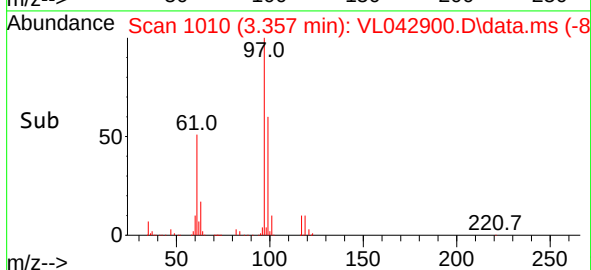
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

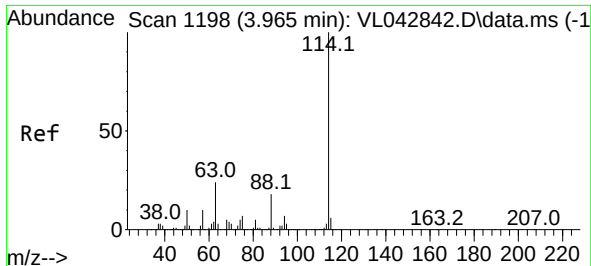


#32
1,1,1-Trichloroethane
Concen: 9.609 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



Tgt Ion: 97 Resp: 271429
Ion Ratio Lower Upper
97 100
99 62.5 51.0 76.6
61 52.2 38.0 57.0





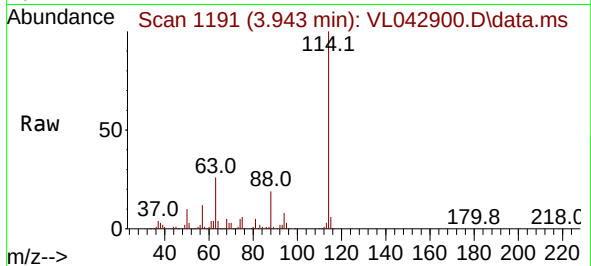
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1198
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

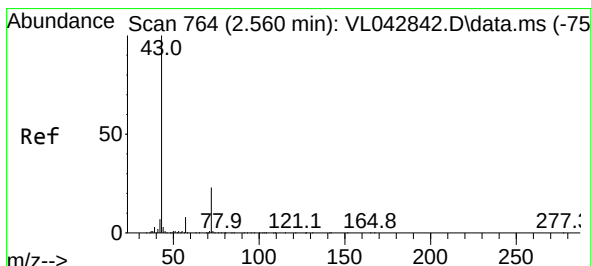
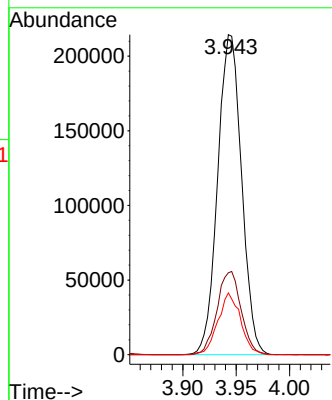
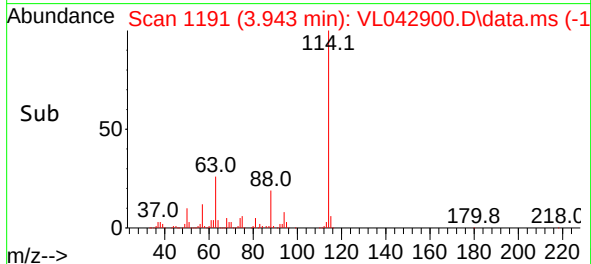


Tgt Ion: 114 Resp: 333600
Ion Ratio Lower Upper
114 100
63 26.3 19.7 29.5
88 18.2 14.4 21.6

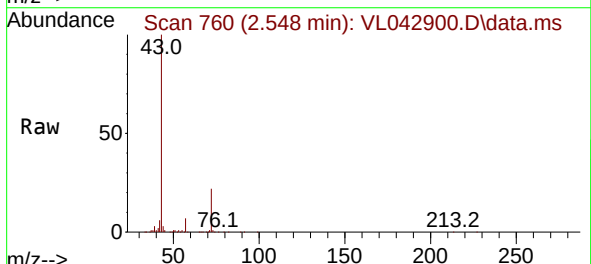
Manual Integrations

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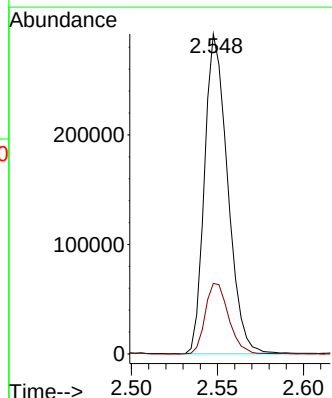
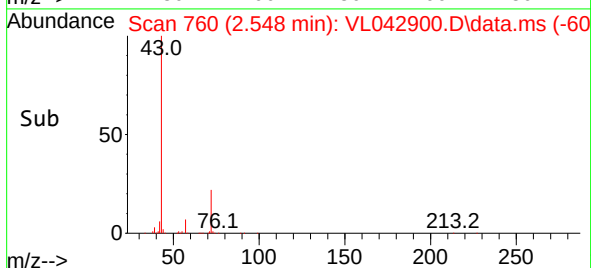
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

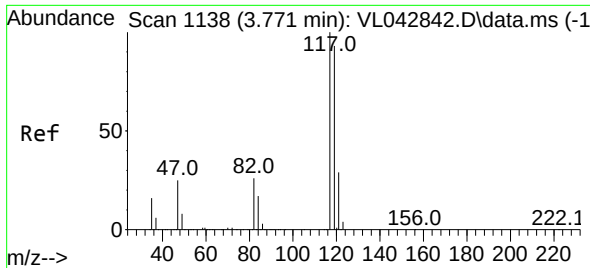


#34
2-Butanone
Concen: 12.107 ppbv
RT: 2.548 min Scan# 760
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



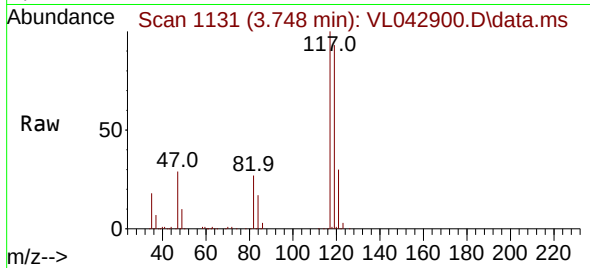
Tgt Ion: 43 Resp: 272735
Ion Ratio Lower Upper
43 100
72 22.4 18.6 28.0





#35
Carbon Tetrachloride
Concen: 11.700 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

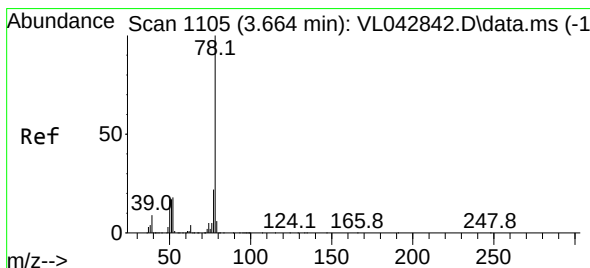
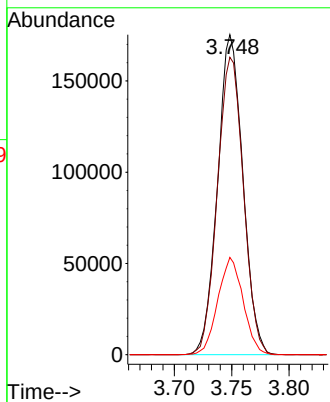
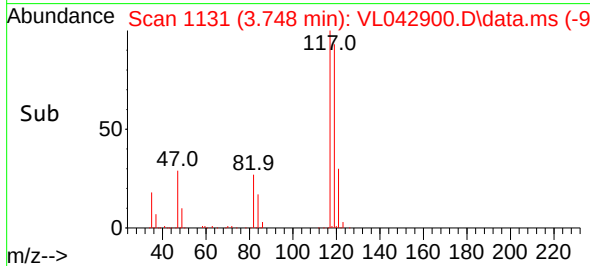
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



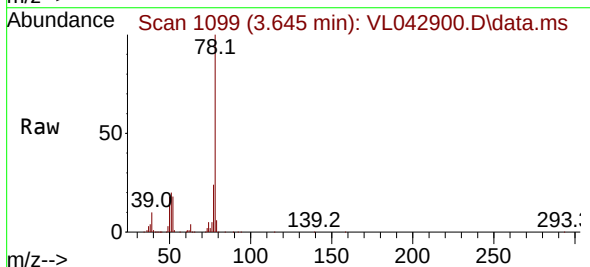
Tgt Ion: 117 Resp: 26909
Ion Ratio Lower Upper
117 100
119 93.0 74.7 112.1
121 30.4 23.2 34.8

Manual Integrations
APPROVED

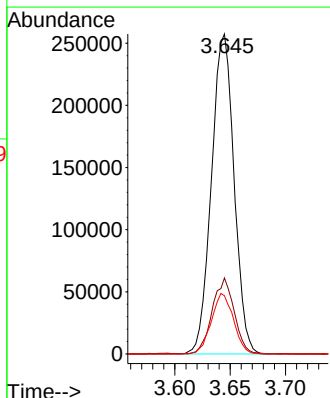
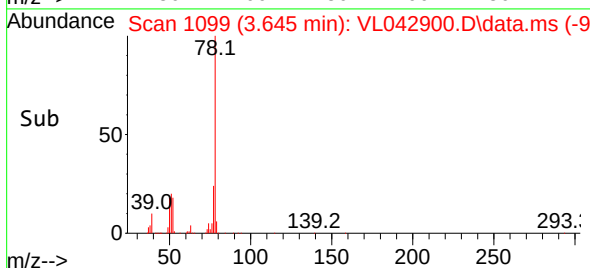
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

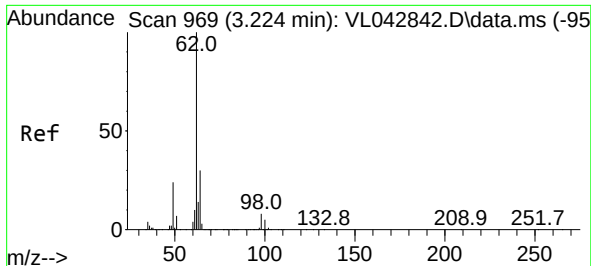


#36
Benzene
Concen: 11.458 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



Tgt Ion: 78 Resp: 366027
Ion Ratio Lower Upper
78 100
77 23.7 17.7 26.5
50 18.2 13.9 20.9





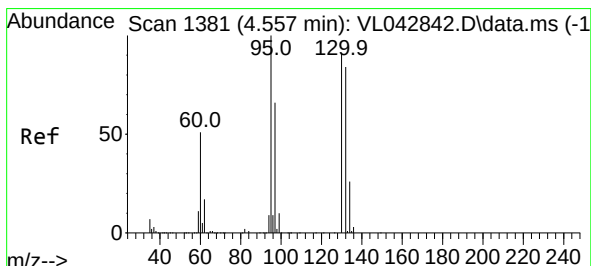
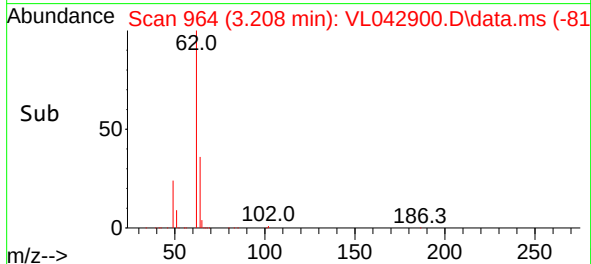
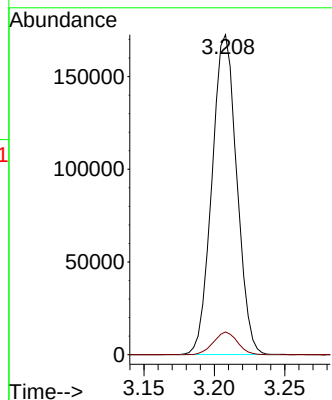
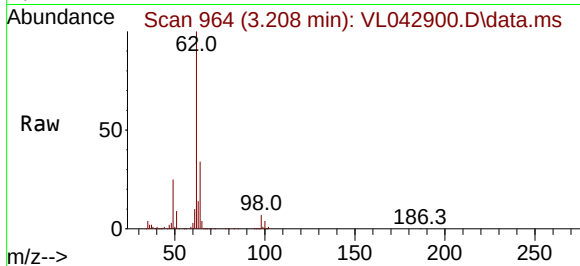
#37
1,2-Dichloroethane
Concen: 12.686 ppbv
RT: 3.208 min Scan# 90
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 211728
Ion Ratio Lower Upper
62 100
98 6.9 5.9 8.9

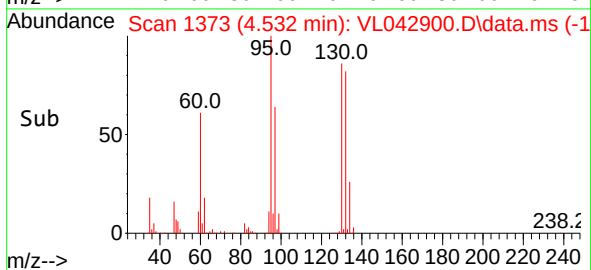
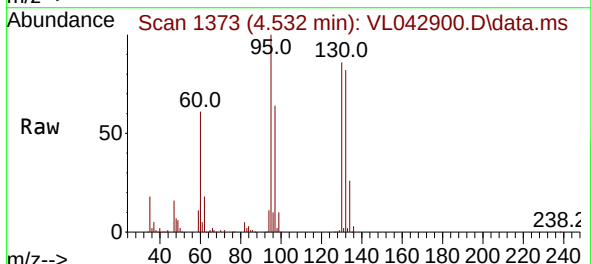
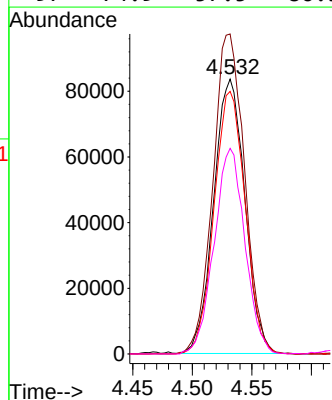
Manual Integrations
APPROVED

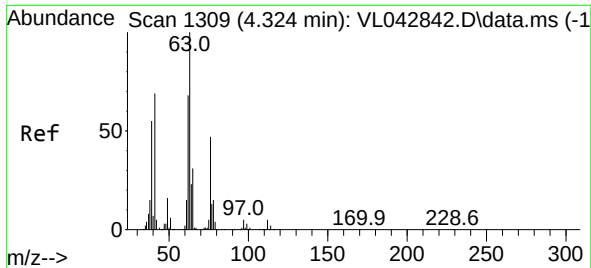
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#38
Trichloroethene
Concen: 10.413 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:130 Resp: 151915
Ion Ratio Lower Upper
130 100
95 116.1 87.6 131.4
132 95.4 73.8 110.8
97 74.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.970 ppbv

RT: 4.299 min Scan# 1301

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 13965

Ion Ratio Lower Upper

63 100

41 71.2 55.0 82.4

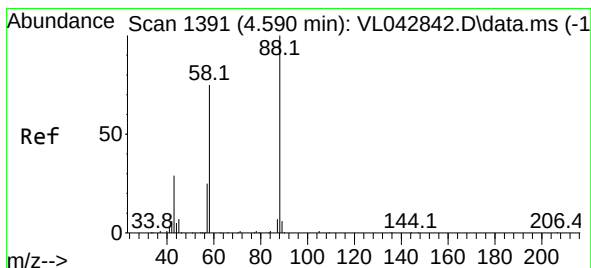
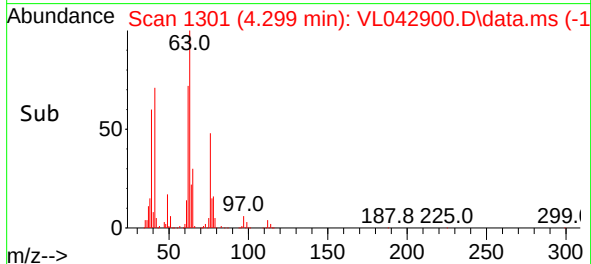
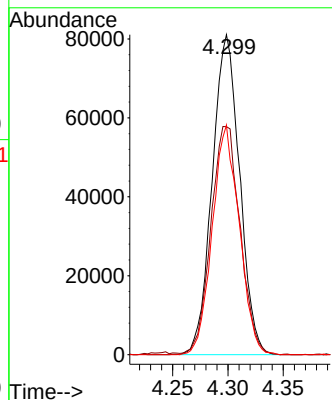
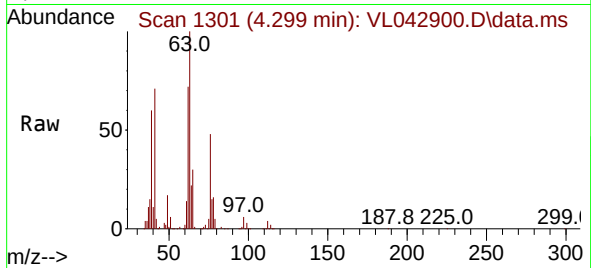
62 71.8 54.4 81.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#40

1,4-Dioxane

Concen: 10.096 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion: 88 Resp: 56013

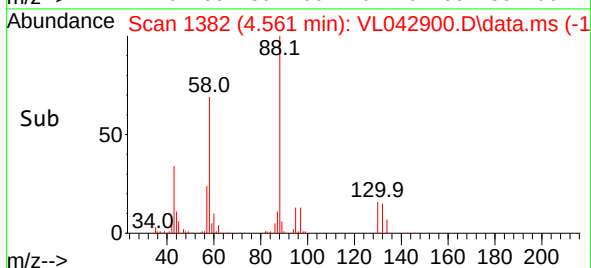
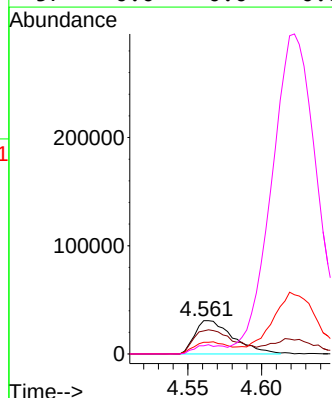
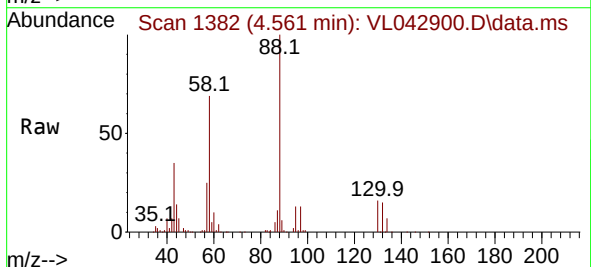
Ion Ratio Lower Upper

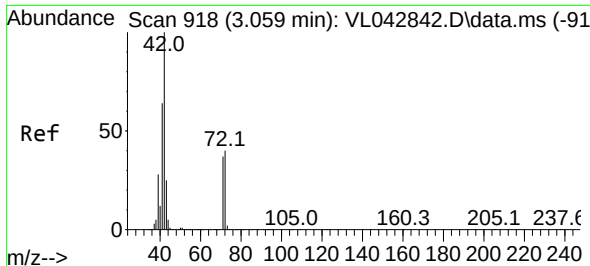
88 100

58 76.6 53.8 80.6

43 35.7 22.8 34.2#

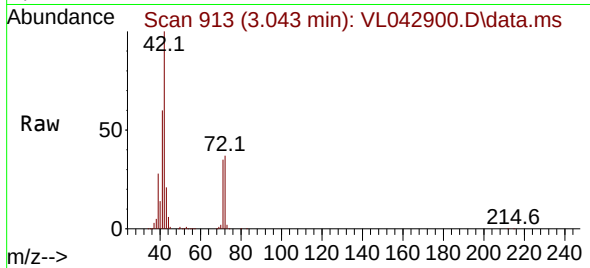
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 11.863 ppbv
RT: 3.043 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

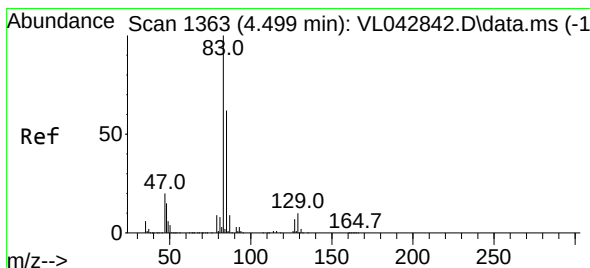
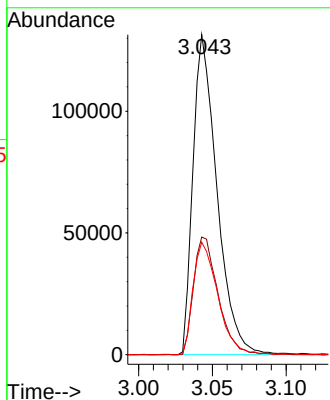
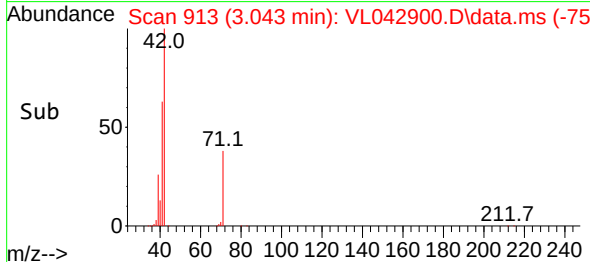
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 42 Resp: 148990
Ion Ratio Lower Upper
42 100
72 37.6 32.6 48.8
71 36.3 30.0 45.0

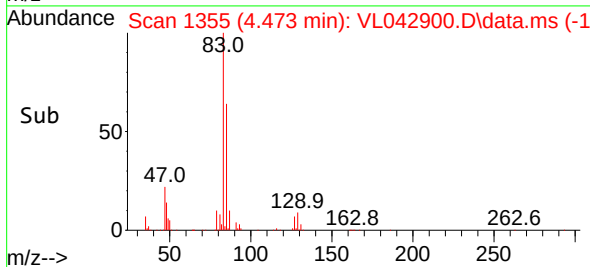
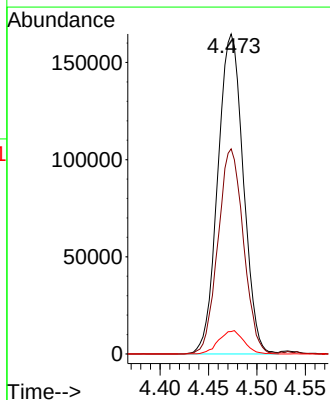
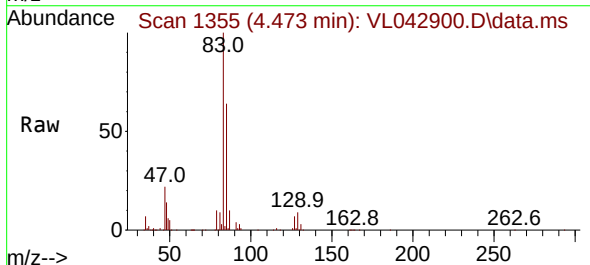
Manual Integrations
APPROVED

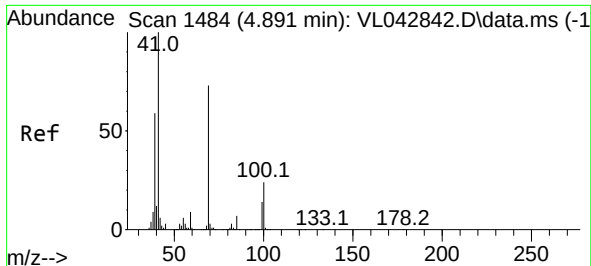
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#42
Bromodichloromethane
Concen: 12.136 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 83 Resp: 301814
Ion Ratio Lower Upper
83 100
85 64.1 49.8 74.8
127 7.0 5.8 8.6





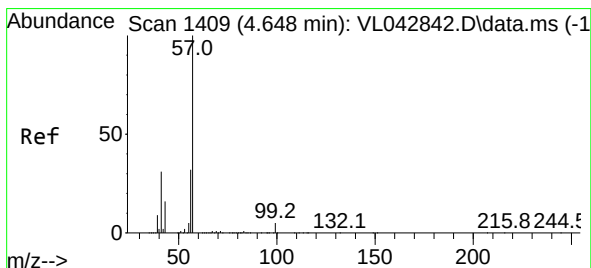
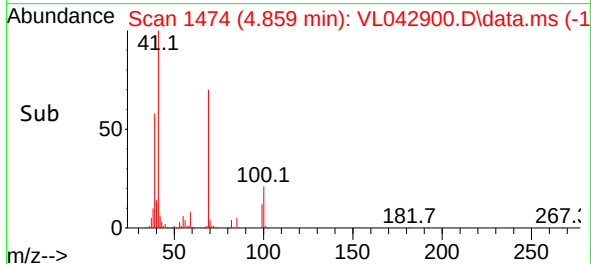
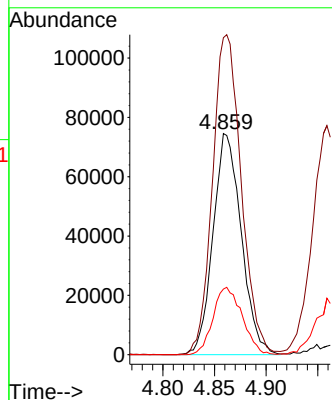
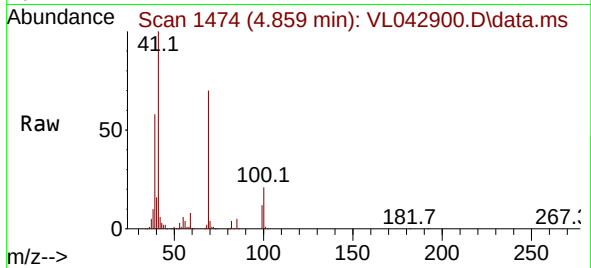
#43
Methyl Methacrylate
Concen: 10.776 ppbv
RT: 4.859 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 14181
Ion Ratio Lower Upper
69 100
41 147.4 114.6 172.0
100 31.5 30.2 45.4

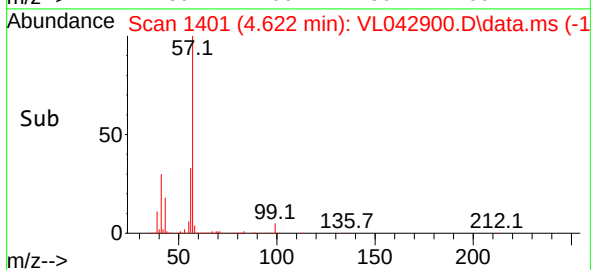
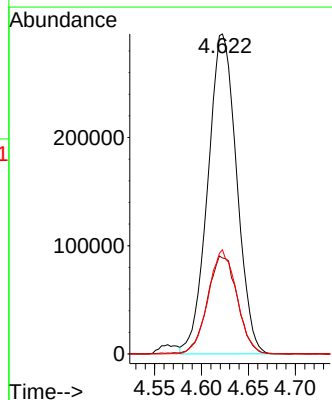
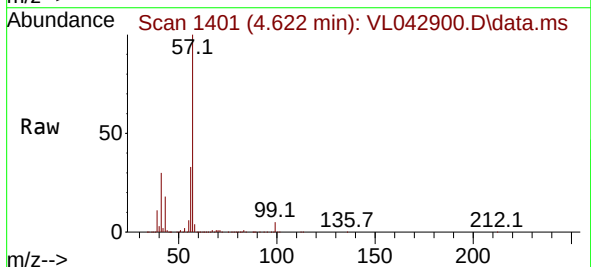
Manual Integrations
APPROVED

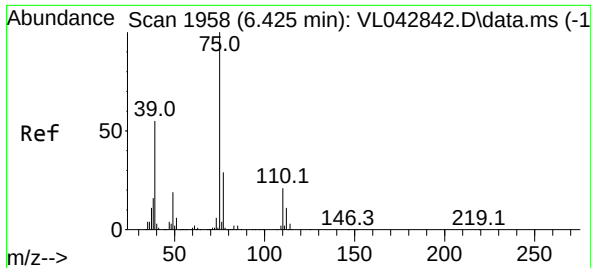
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#44
2,2,4-Trimethylpentane
Concen: 11.642 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 631245
Ion Ratio Lower Upper
57 100
41 32.0 24.8 37.2
56 32.2 25.5 38.3





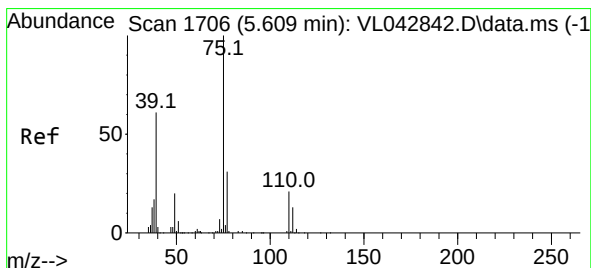
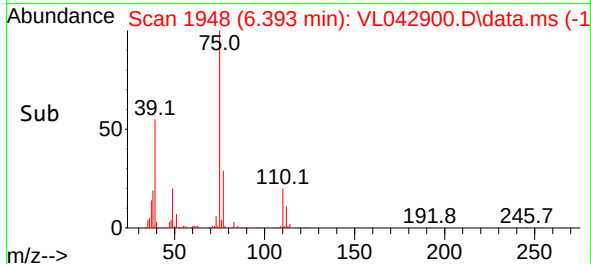
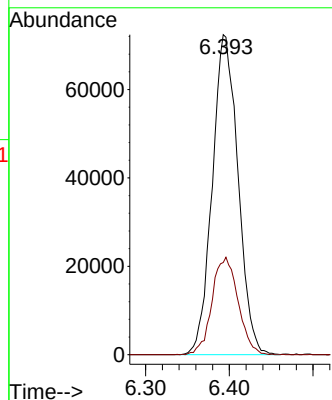
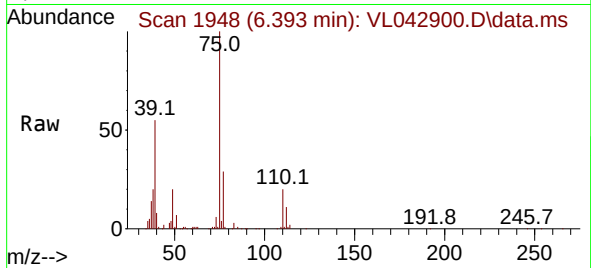
#45
t-1,3-Dichloropropene
Concen: 10.411 ppbv
RT: 6.393 min Scan# 1958
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 15462
Ion Ratio Lower Upper
75 100
77 28.8 23.8 35.6

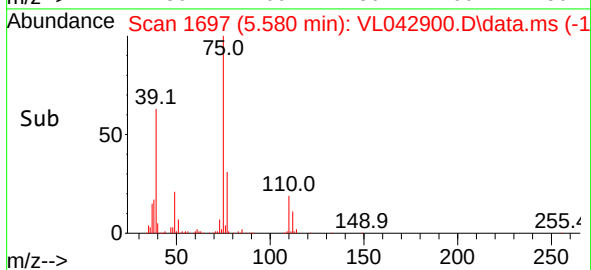
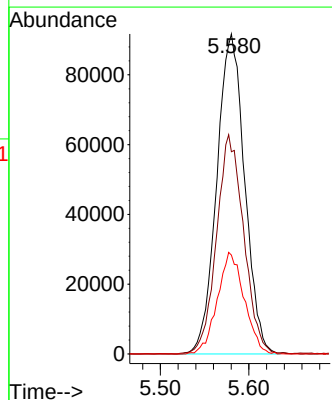
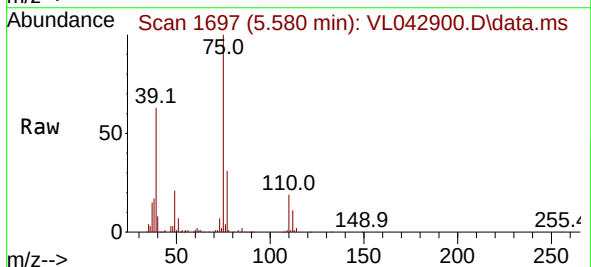
Manual Integrations
APPROVED

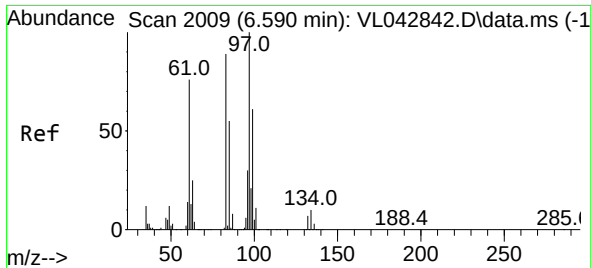
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#46
cis-1,3-Dichloropropene
Concen: 10.851 ppbv
RT: 5.580 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

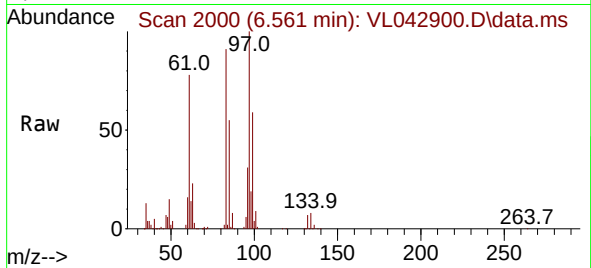
Tgt Ion: 75 Resp: 200797
Ion Ratio Lower Upper
75 100
39 63.0 48.9 73.3
77 30.9 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 11.666 ppbv
RT: 6.561 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

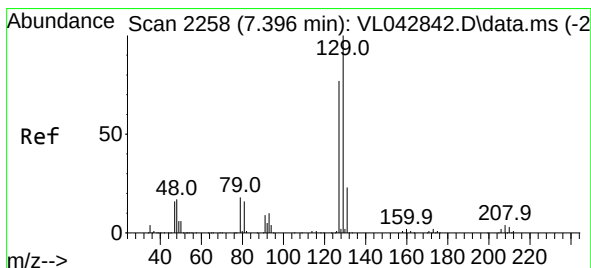
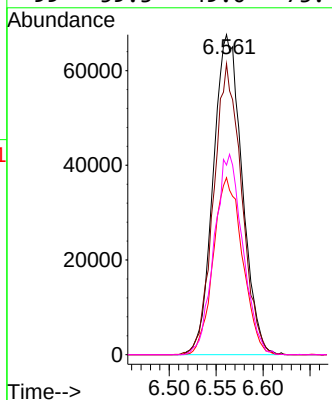
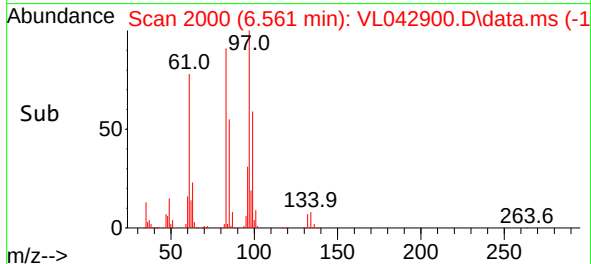
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 97 Resp: 144209
Ion Ratio Lower Upper
97 100
83 90.9 71.0 106.4
85 55.2 43.6 65.4
99 59.3 49.0 73.4

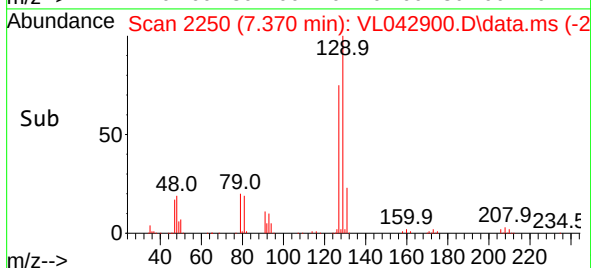
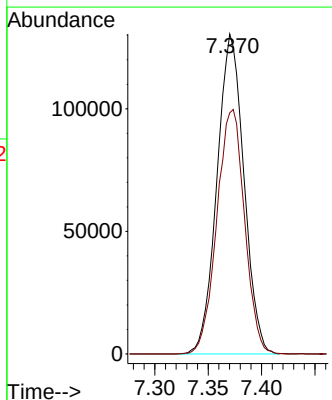
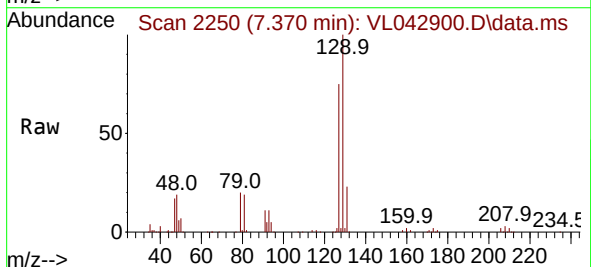
Manual Integrations
APPROVED

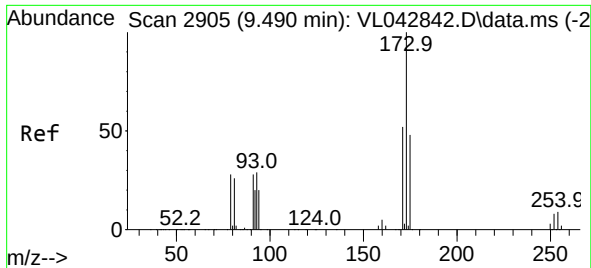
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#48
Dibromochloromethane
Concen: 11.430 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

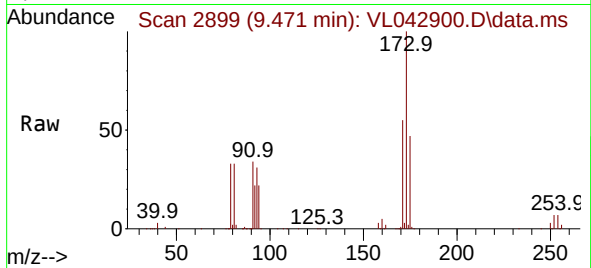
Tgt Ion:129 Resp: 228649
Ion Ratio Lower Upper
129 100
127 78.7 39.4 118.2





#49
Bromoform
Concen: 11.158 ppbv
RT: 9.471 min Scan# 2899
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

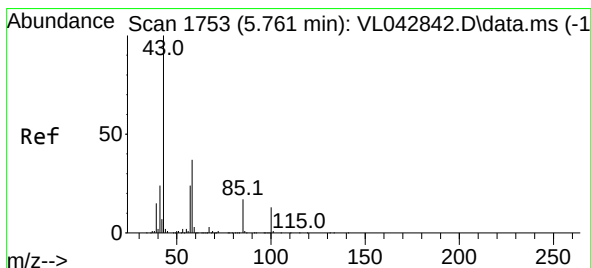
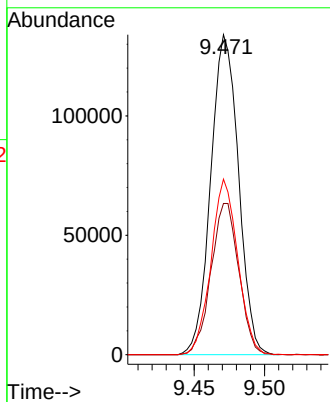
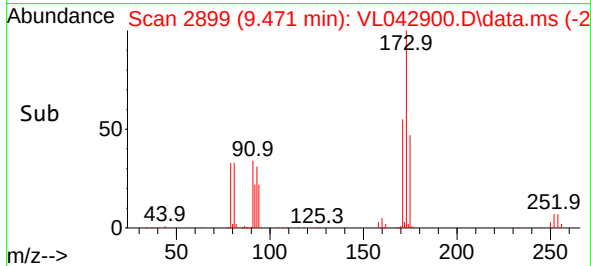
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 173 Resp: 18406
Ion Ratio Lower Upper
173 100
175 47.4 39.2 58.8
171 52.8 41.3 61.9

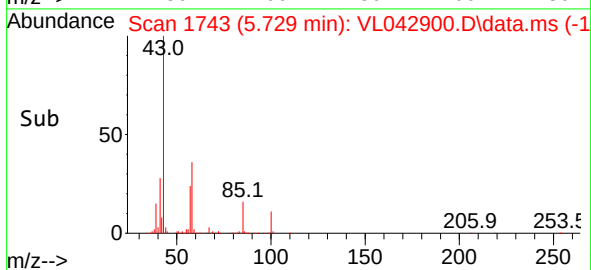
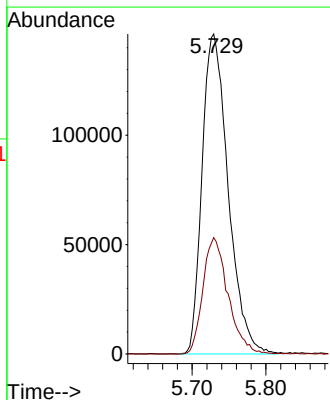
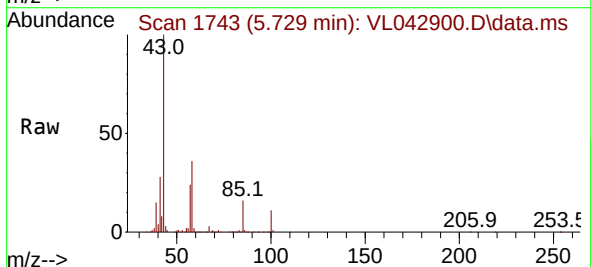
Manual Integrations
APPROVED

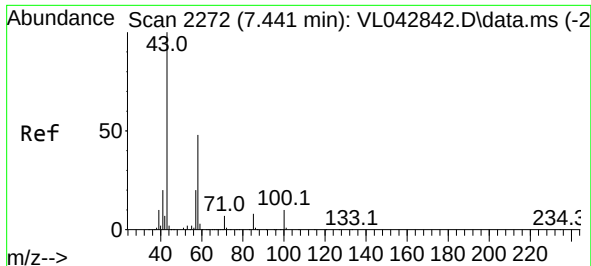
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#50
4-Methyl-2-Pentanone
Concen: 11.801 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

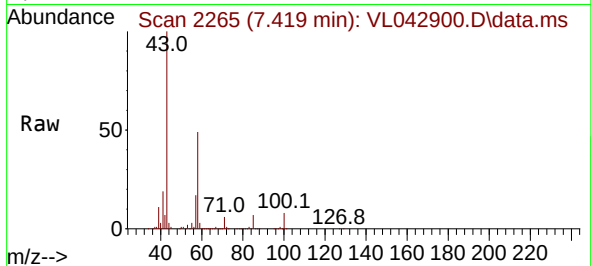
Tgt Ion: 43 Resp: 359329
Ion Ratio Lower Upper
43 100
58 35.0 29.8 44.8





#51
2-Hexanone
Concen: 11.872 ppbv
RT: 7.419 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

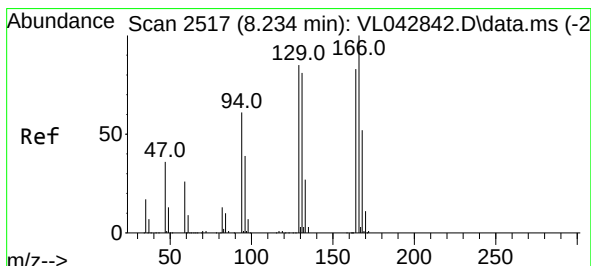
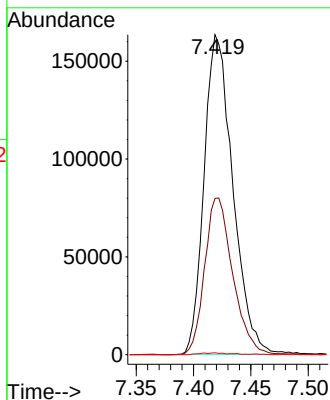
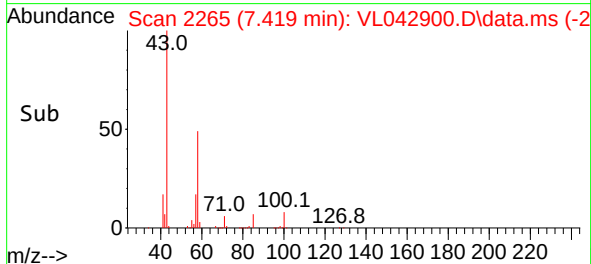
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 284454
Ion Ratio Lower Upper
43 100
58 48.1 41.0 61.6
98 0.7 0.1 0.1

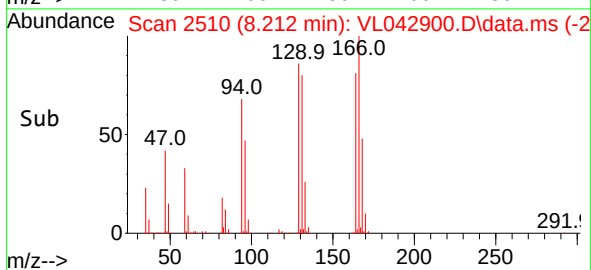
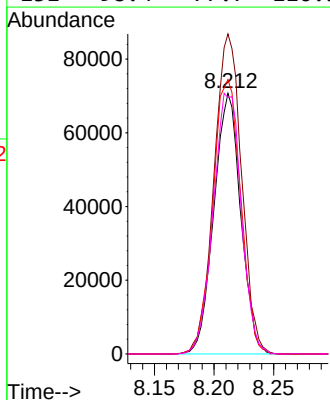
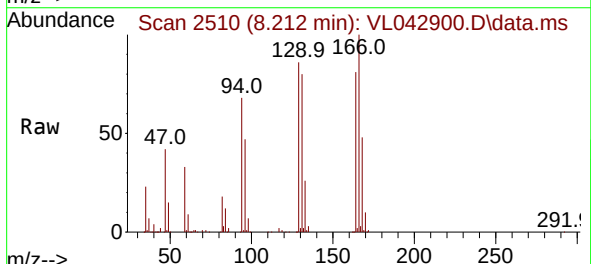
Manual Integrations
APPROVED

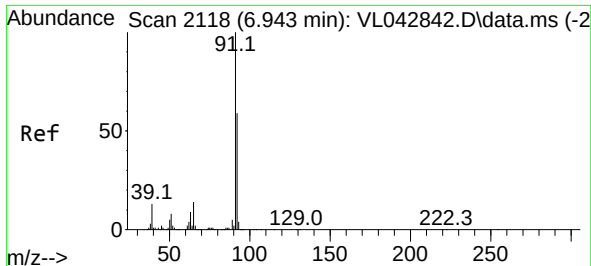
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#52
Tetrachloroethene
Concen: 9.547 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

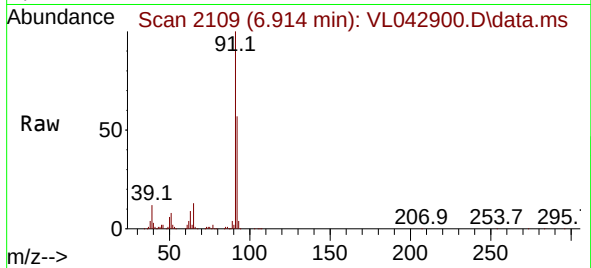
Tgt Ion:164 Resp: 110334
Ion Ratio Lower Upper
164 100
166 122.8 96.5 144.7
129 105.2 81.8 122.6
131 98.4 77.7 116.5





#53
Toluene
Concen: 10.587 ppbv
RT: 6.914 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

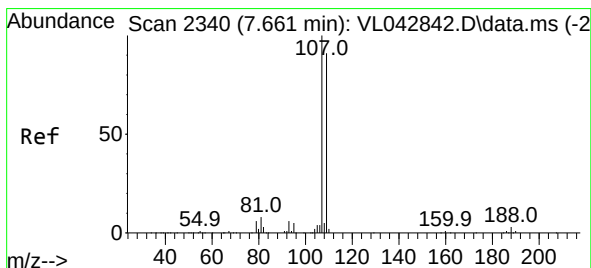
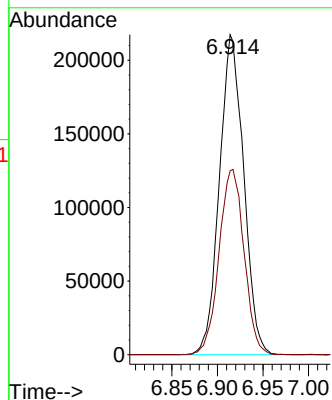
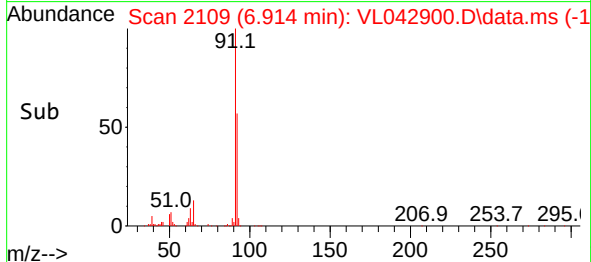
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



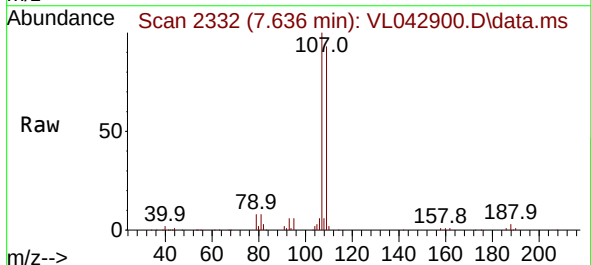
Tgt Ion: 91 Resp: 402080
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

Manual Integrations
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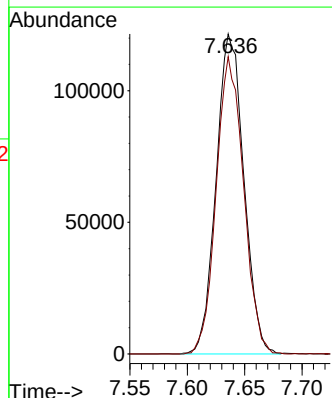
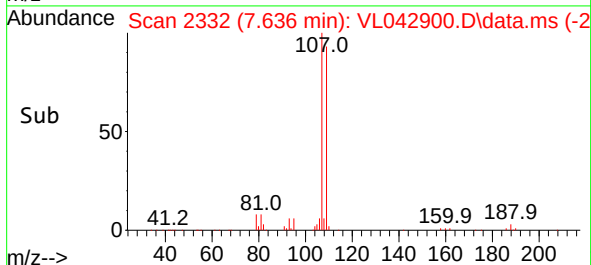
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

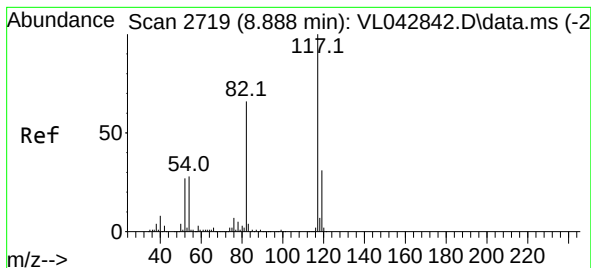


#54
1,2-Dibromoethane
Concen: 11.307 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



Tgt Ion:107 Resp: 204276
Ion Ratio Lower Upper
107 100
109 92.9 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.869 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

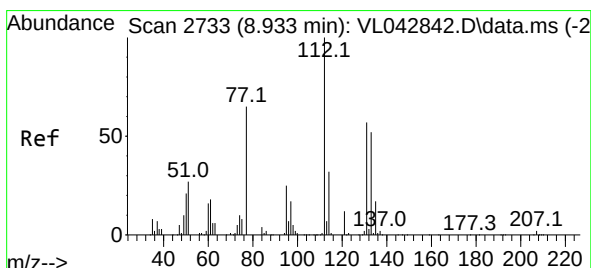
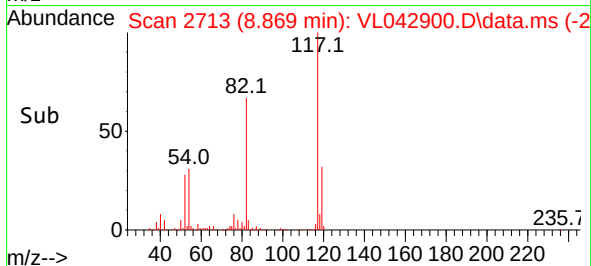
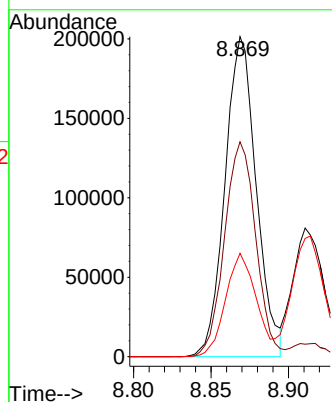
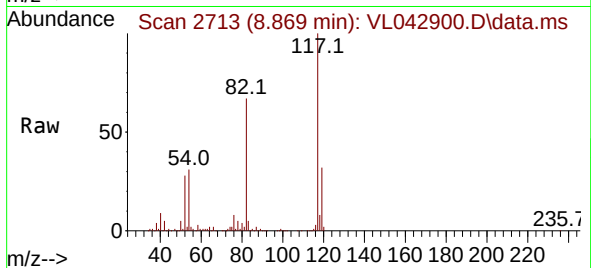
VSTDCCC010

Tgt Ion:	117	Resp:	282770
Ion Ratio	Lower	Upper	
117	100		
82	71.7	54.6	81.8
119	33.1	25.9	38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 11.648 ppbv

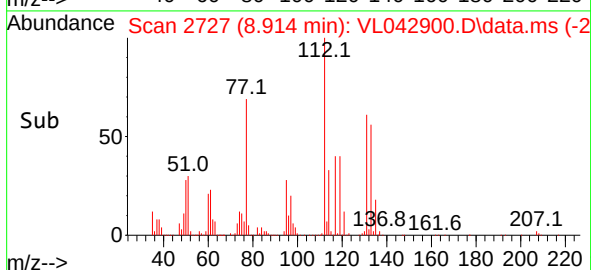
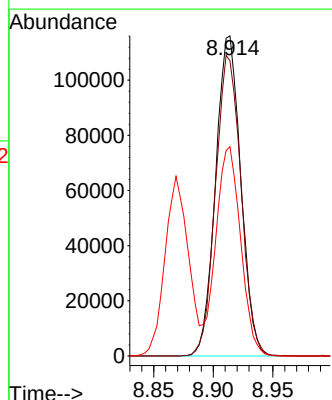
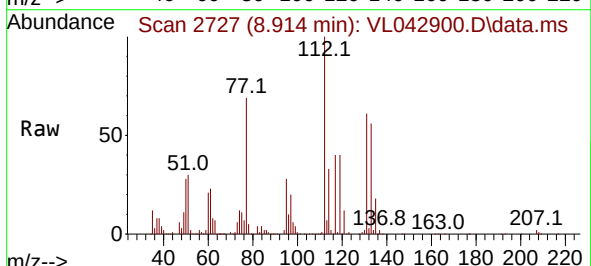
RT: 8.914 min Scan# 2727

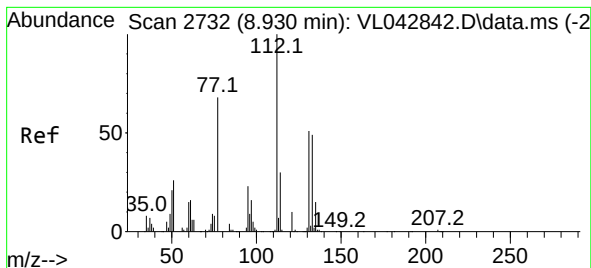
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion:	131	Resp:	170319
Ion Ratio	Lower	Upper	
131	100		
133	95.2	77.4	116.0
119	63.9	51.2	76.8





#57

Chlorobenzene

Concen: 11.581 ppbv

RT: 8.911 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

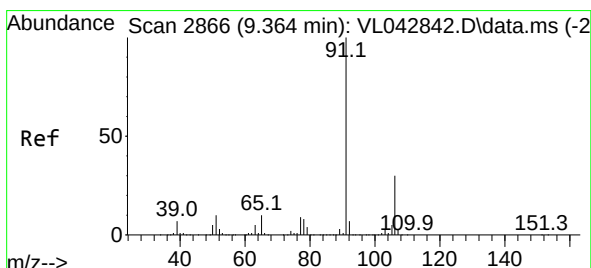
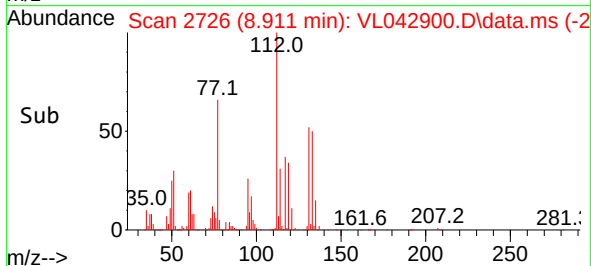
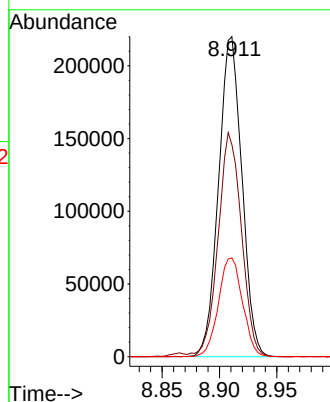
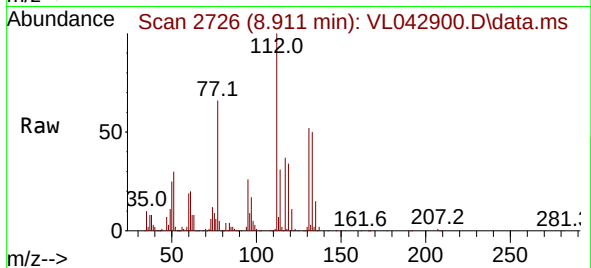
VSTDCCC010

Tgt Ion:112 Resp: 31137
 Ion Ratio Lower Upper
 112 100
 77 66.1 55.5 83.3
 114 30.8 27.2 33.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#58

Ethyl Benzene

Concen: 11.184 ppbv

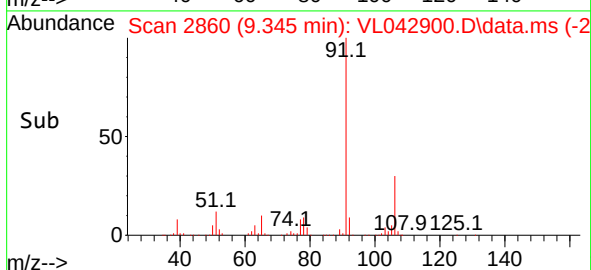
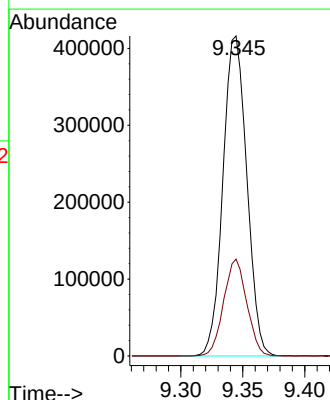
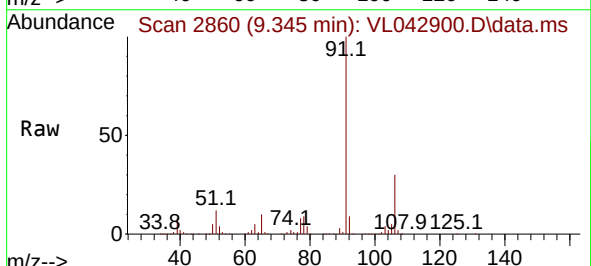
RT: 9.345 min Scan# 2860

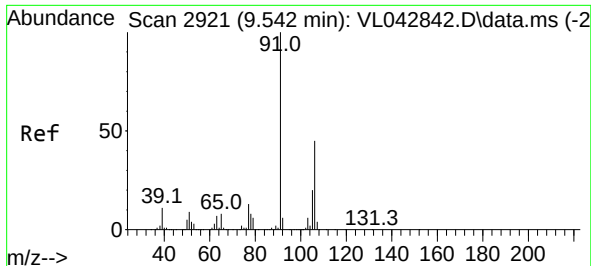
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 558102
 Ion Ratio Lower Upper
 91 100
 106 30.3 23.9 35.9





#59

m/p-Xylene

Concen: 23.388 ppbv m

RT: 9.539 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 91478

Ion Ratio Lower Upper

91 100

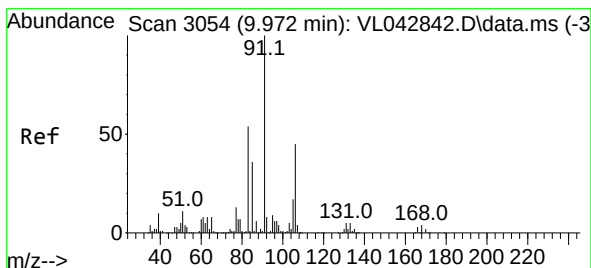
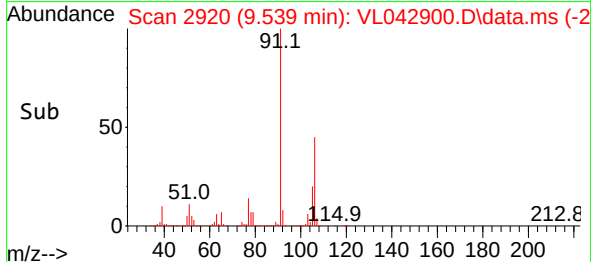
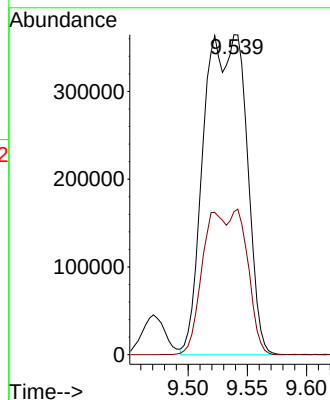
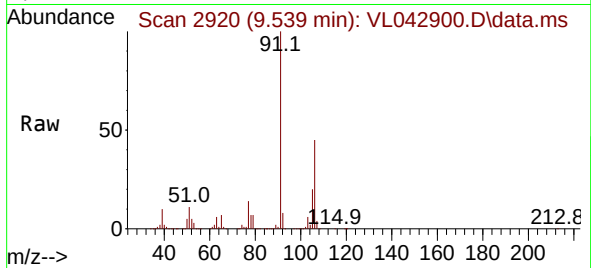
106 45.8 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#60

o-Xylene

Concen: 11.716 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL042900.D

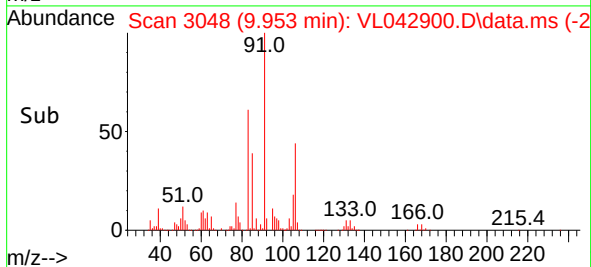
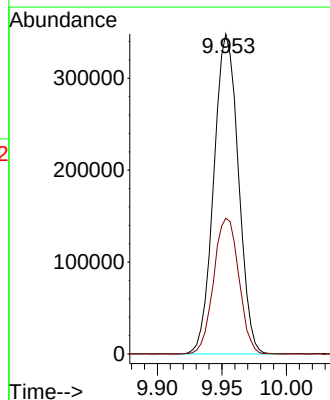
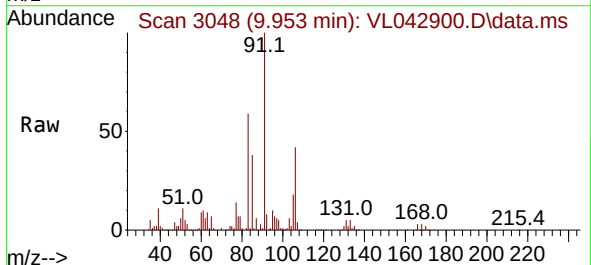
Acq: 08 Sep 2025 11:05

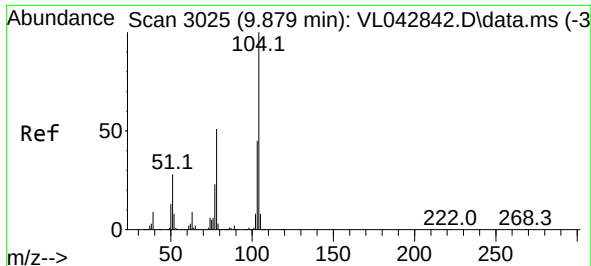
Tgt Ion: 91 Resp: 460968

Ion Ratio Lower Upper

91 100

106 43.4 21.8 65.4





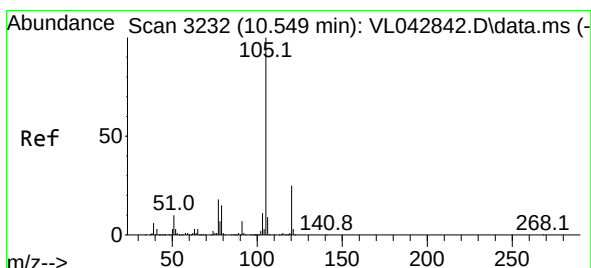
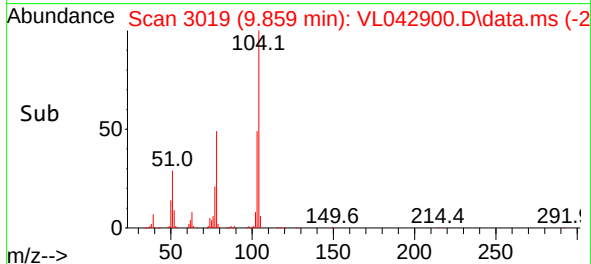
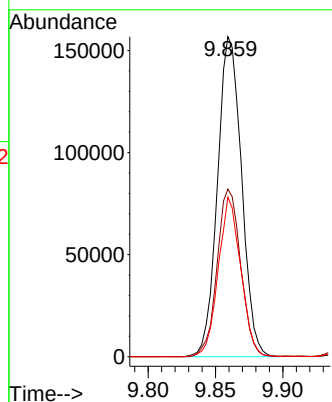
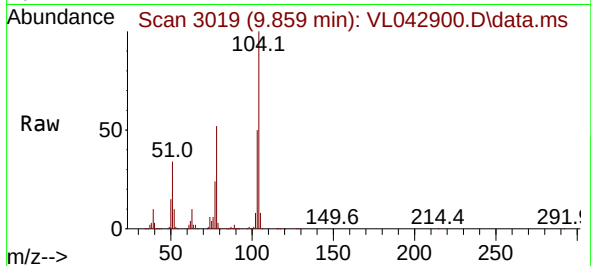
#61
Styrene
Concen: 10.579 ppbv
RT: 9.859 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 19500
Ion Ratio Lower Upper
104 100
78 51.3 40.6 61.0
103 46.6 37.7 56.5

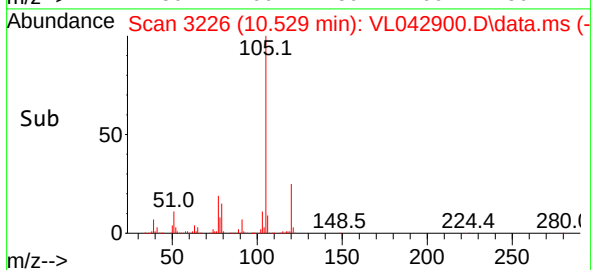
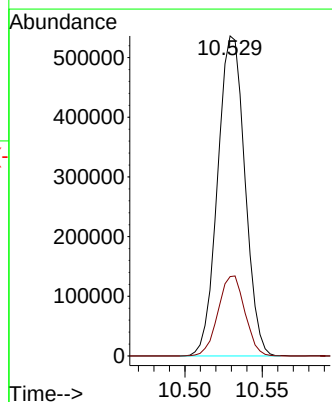
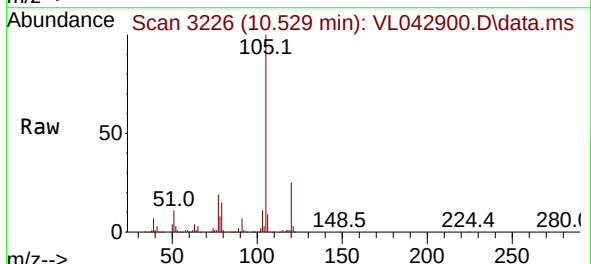
Manual Integrations
APPROVED

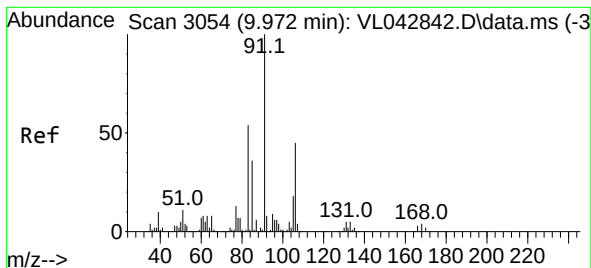
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#62
Isopropylbenzene
Concen: 11.394 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

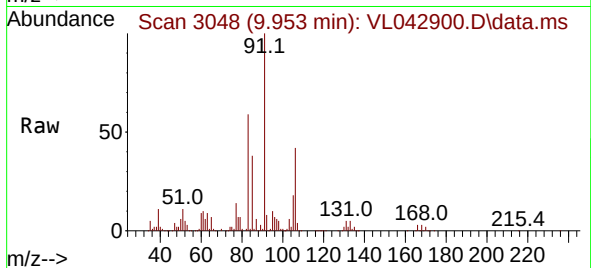
Tgt Ion:105 Resp: 655164
Ion Ratio Lower Upper
105 100
120 24.5 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 12.314 ppbv
RT: 9.953 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

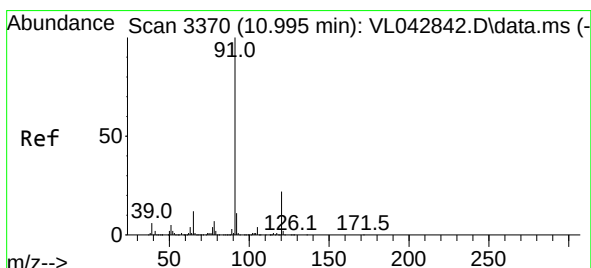
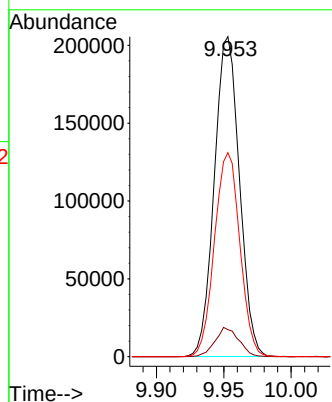
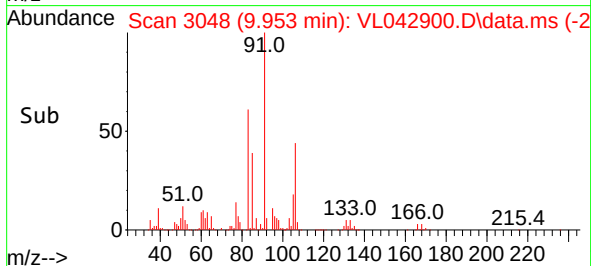
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 83 Resp: 266435
Ion Ratio Lower Upper
83 100
131 8.7 4.8 14.3
85 64.5 32.3 96.8

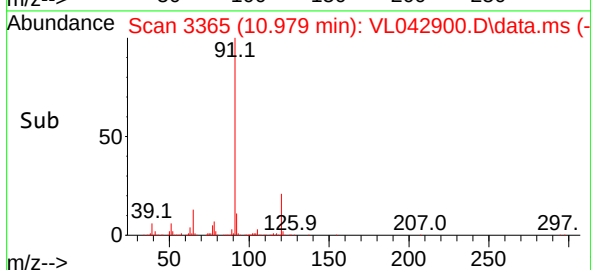
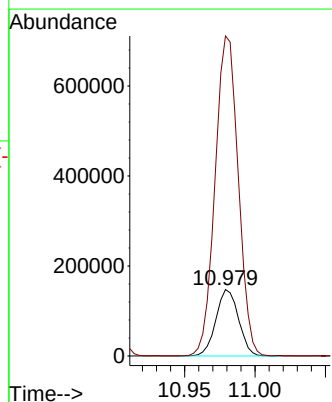
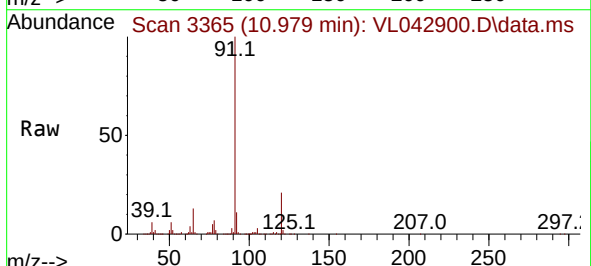
Manual Integrations
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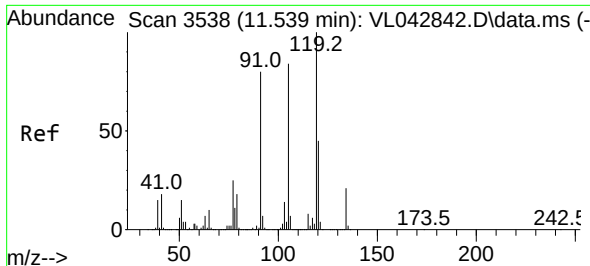
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#64
n-propylbenzene
Concen: 11.220 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

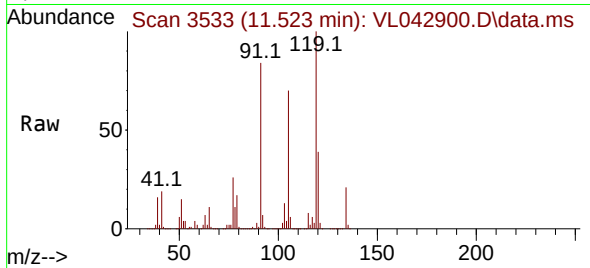
Tgt Ion:120 Resp: 164610
Ion Ratio Lower Upper
120 100
91 495.9 375.8 563.6





#65
tert-Butylbenzene
Concen: 11.075 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

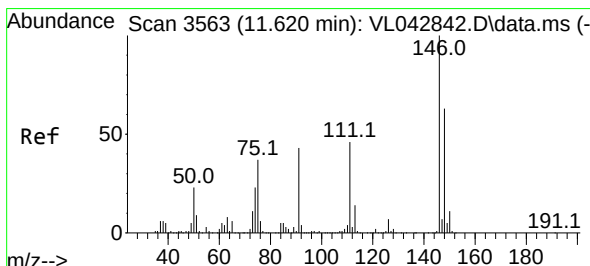
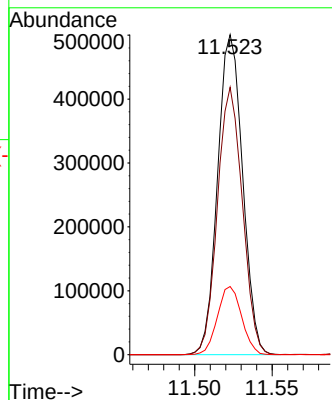
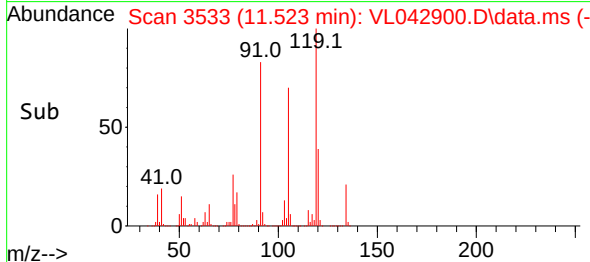
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



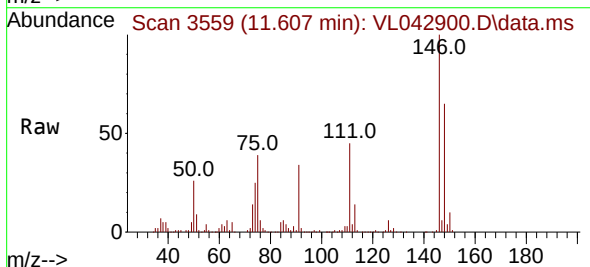
Tgt Ion:119 Resp: 561409
Ion Ratio Lower Upper
119 100
91 83.4 63.9 95.9
134 20.6 17.0 25.4

Manual Integrations
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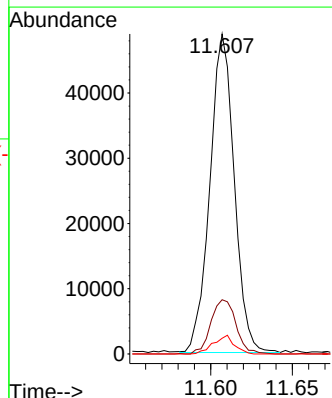
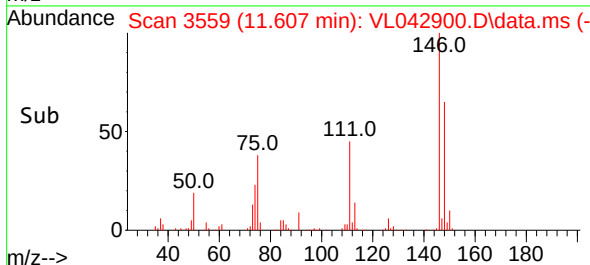
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

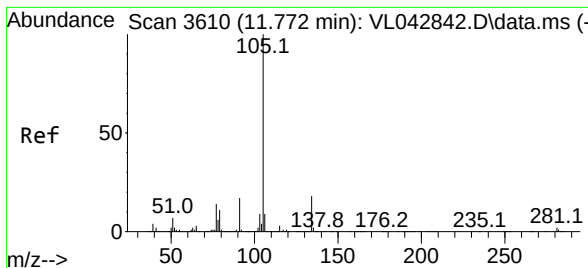


#66
Benzyl Chloride
Concen: 7.895 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



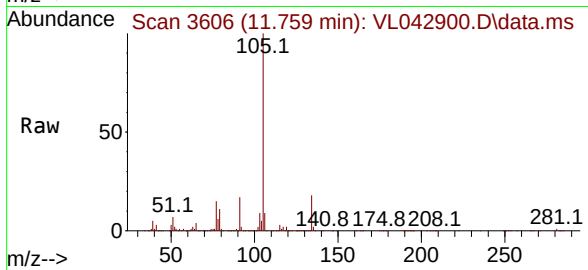
Tgt Ion: 91 Resp: 50803
Ion Ratio Lower Upper
91 100
126 17.5 14.2 21.4
128 5.0 5.0 7.6#





#67
 sec-Butylbenzene
 Concen: 11.709 ppbv
 RT: 11.759 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

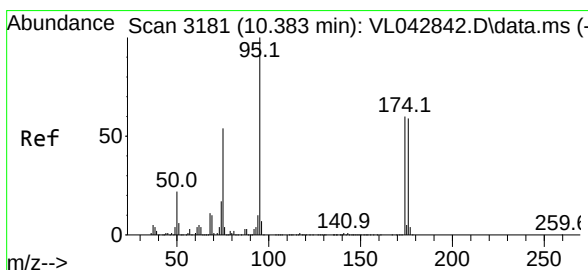
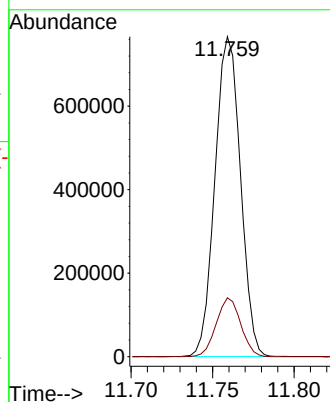
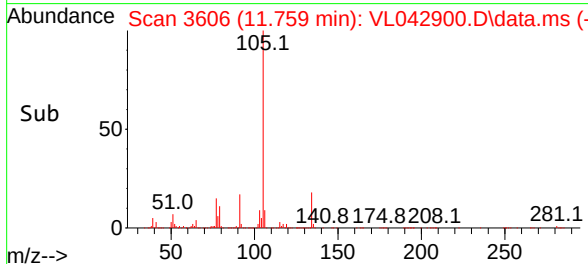
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



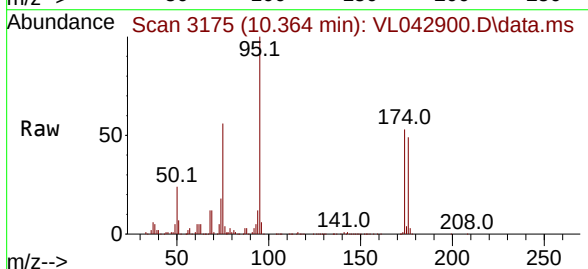
Tgt Ion:105 Resp: 833114
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.9 22.3

Manual Integrations
 APPROVED

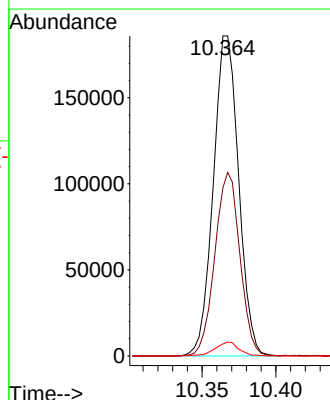
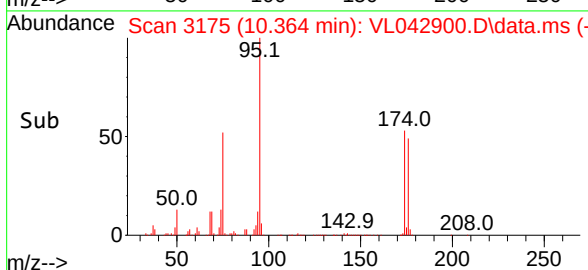
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

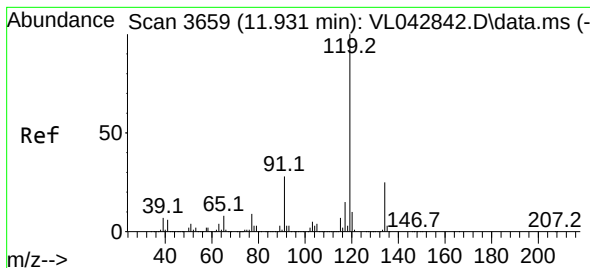


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.483 ppbv
 RT: 10.364 min Scan# 3175
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



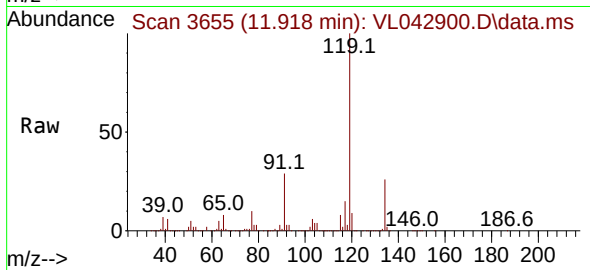
Tgt Ion: 95 Resp: 222314
 Ion Ratio Lower Upper
 95 100
 174 56.8 48.4 72.6
 175 4.1 3.8 5.8





#69
p-Isopropyltoluene
Concen: 10.929 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

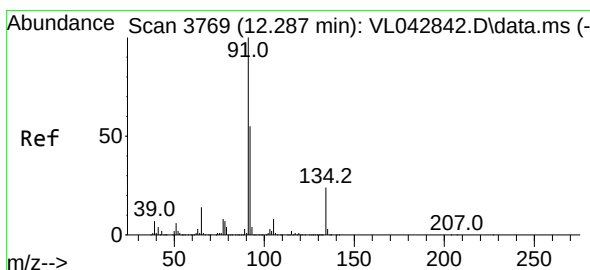
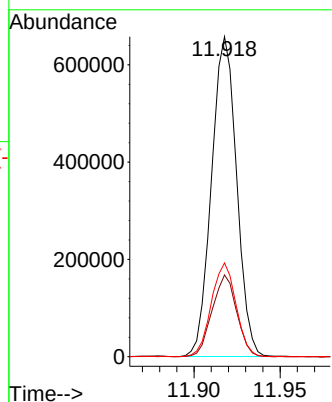
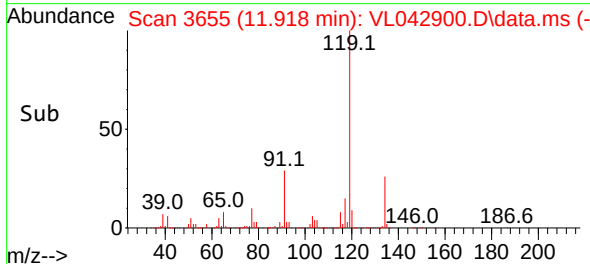
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:119 Resp: 667558
Ion Ratio Lower Upper
119 100
134 25.1 20.6 30.8
91 29.0 22.6 34.0

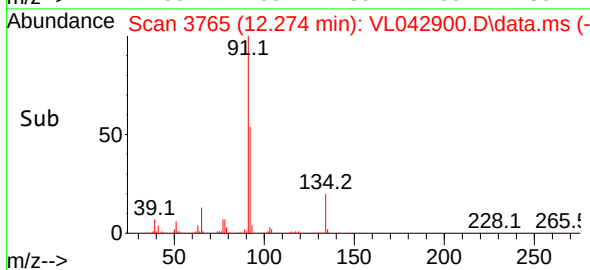
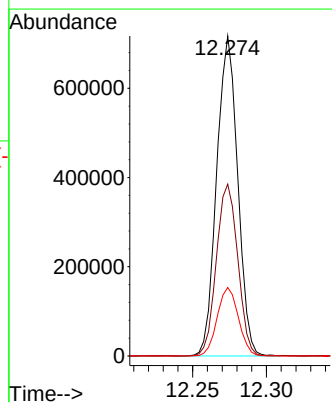
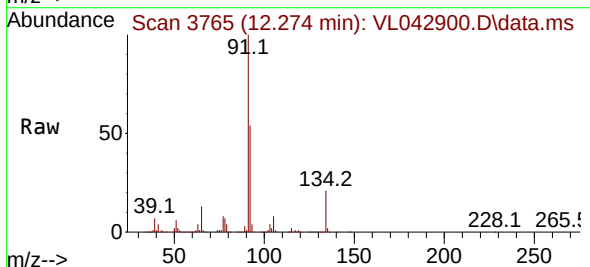
Manual Integrations
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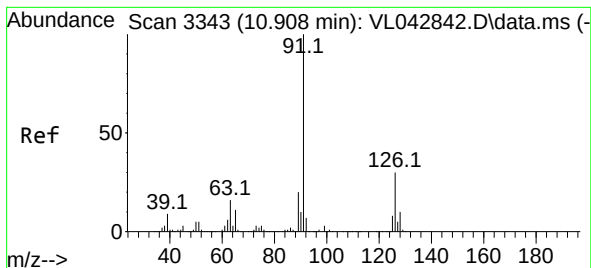
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#70
n-Butylbenzene
Concen: 11.736 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 711012
Ion Ratio Lower Upper
91 100
92 54.7 44.6 66.8
134 21.6 19.0 28.4





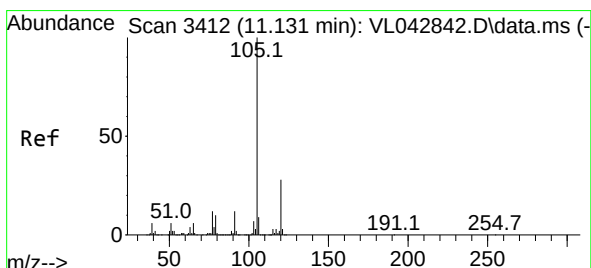
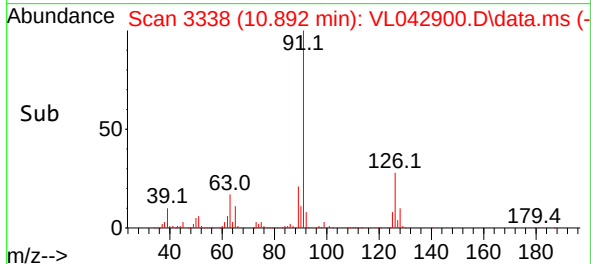
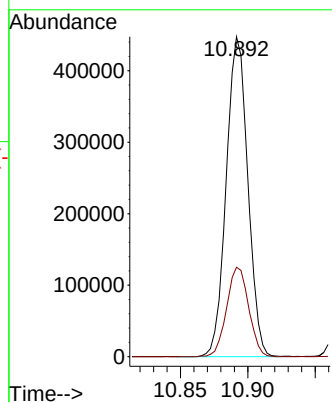
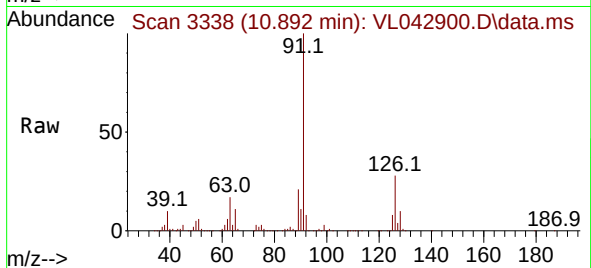
#71
2-Chlorotoluene
Concen: 11.156 ppbv
RT: 10.892 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 498072
Ion Ratio Lower Upper
91 100
126 28.5 12.0 47.8

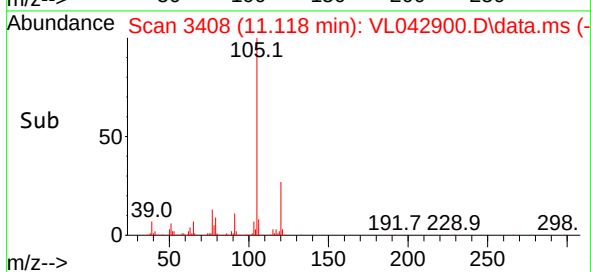
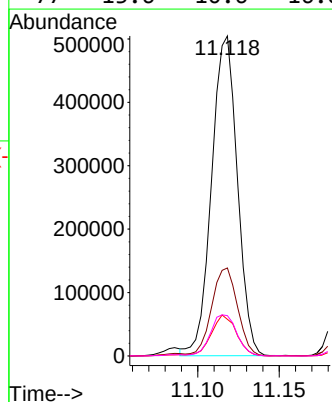
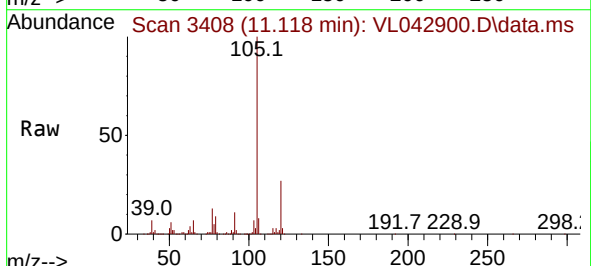
Manual Integrations
APPROVED

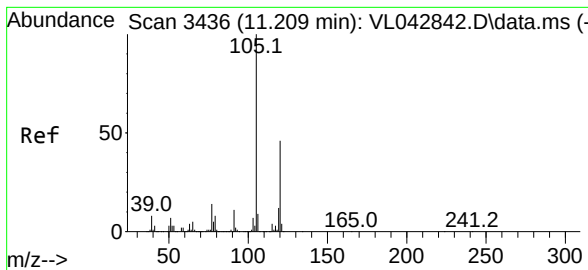
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#72
4-Ethyltoluene
Concen: 11.624 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

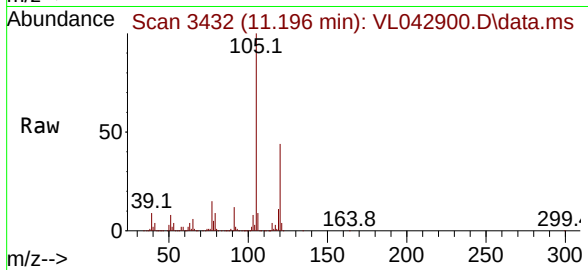
Tgt Ion:105 Resp: 554411
Ion Ratio Lower Upper
105 100
120 28.3 23.4 35.2
91 12.9 9.8 14.6
77 13.6 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 11.105 ppbv
RT: 11.196 min Scan# 3436
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

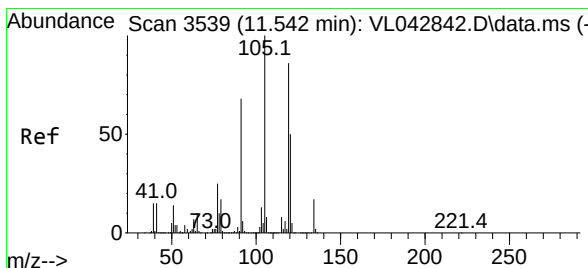
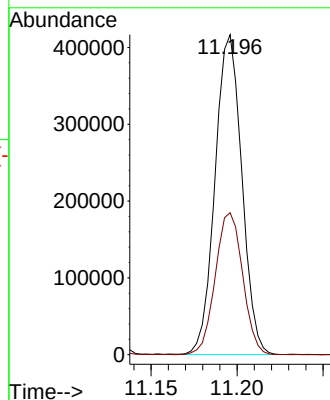
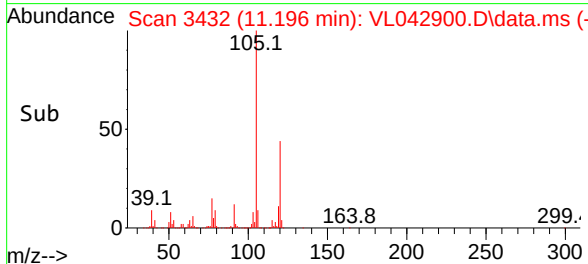
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



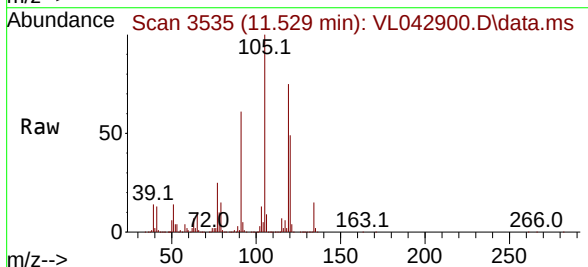
Tgt Ion:105 Resp: 450409
Ion Ratio Lower Upper
105 100
120 44.3 36.6 54.8

Manual Integrations
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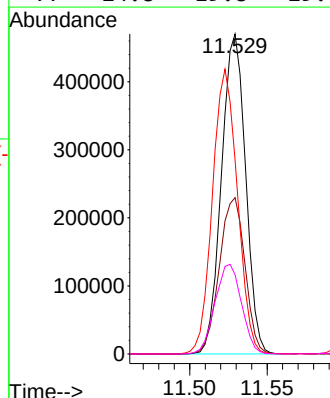
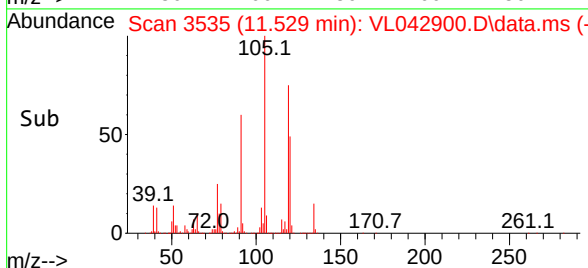
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

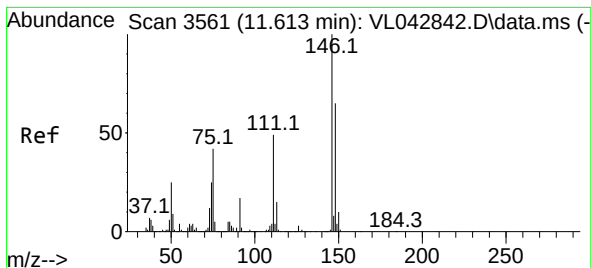


#74
1,2,4-Trimethylbenzene
Concen: 11.424 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



Tgt Ion:105 Resp: 508605
Ion Ratio Lower Upper
105 100
120 48.8 39.8 59.6
91 60.5 54.2 81.4
77 24.8 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 11.445 ppbv

RT: 11.597 min Scan# 3556

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

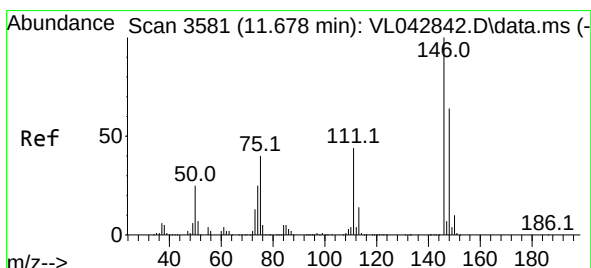
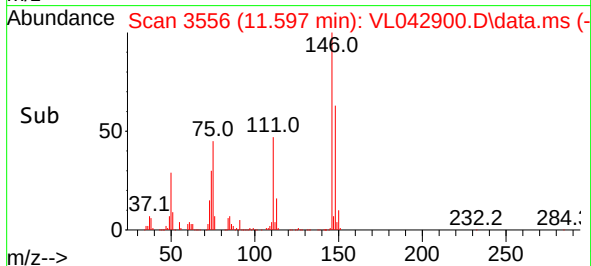
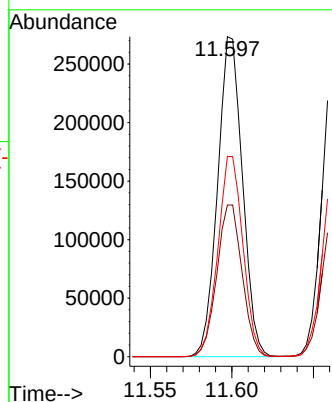
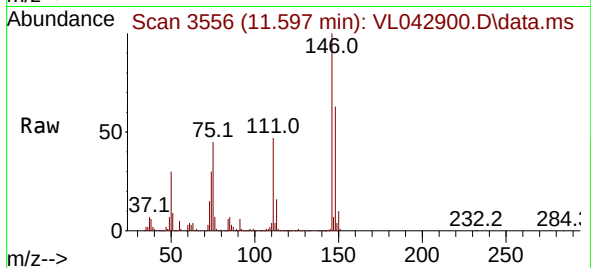
VSTDCCC010

Tgt Ion:	146	Resp:	289650
Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.9	71.7
148	63.1	31.4	94.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#76

1,4-Dichlorobenzene

Concen: 11.226 ppbv

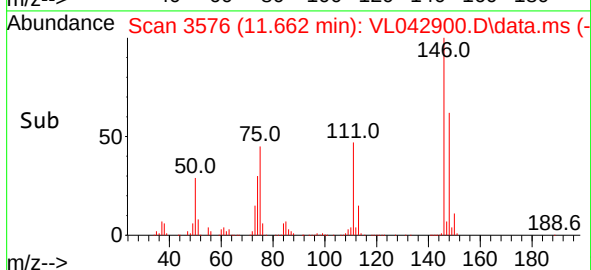
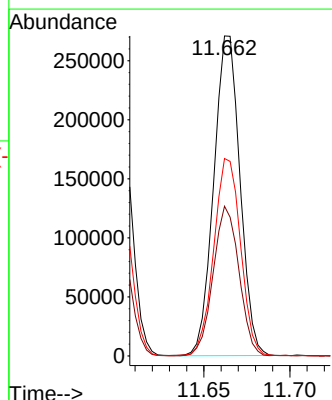
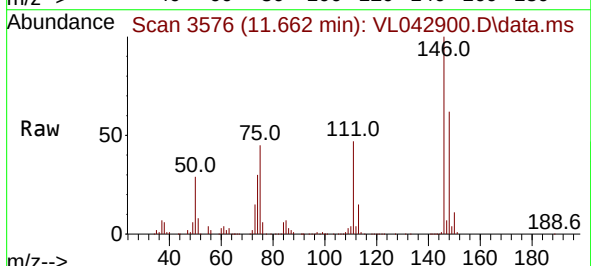
RT: 11.662 min Scan# 3576

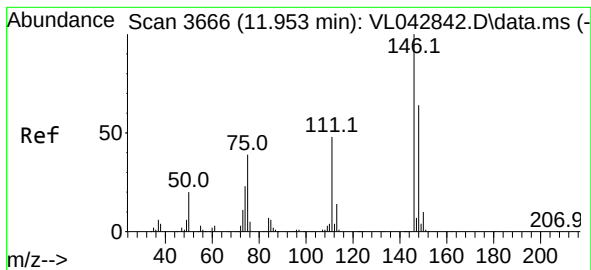
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion:	146	Resp:	287352
Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.7	68.1
148	63.2	31.8	95.3





#77

1,2-Dichlorobenzene

Concen: 11.351 ppbv

RT: 11.940 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

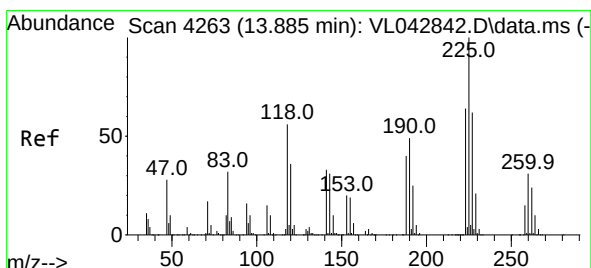
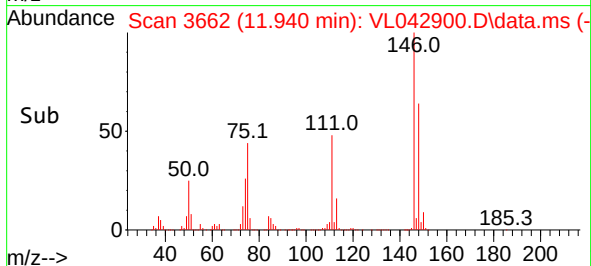
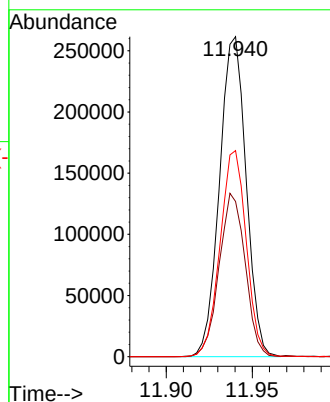
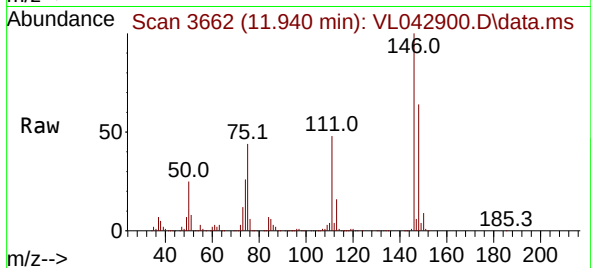
VSTDCCC010

Tgt Ion:	146	Resp:	28130
Ion Ratio	Lower	Upper	
146	100		
111	50.0	24.6	74.0
148	63.5	32.0	96.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.266 ppbv

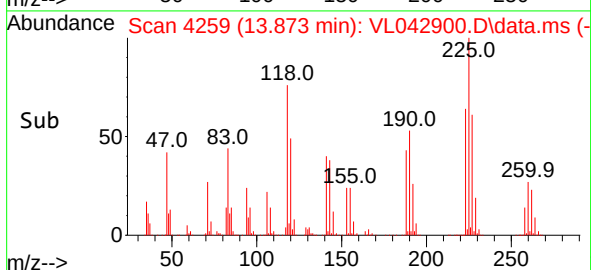
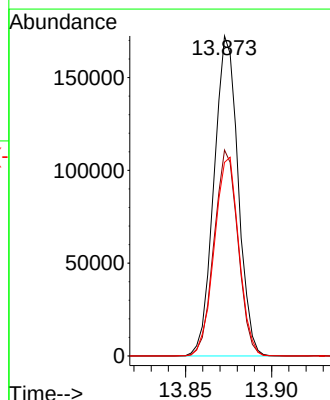
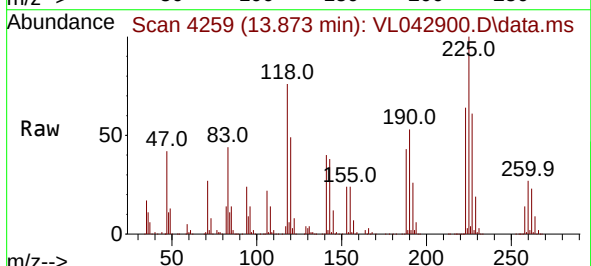
RT: 13.873 min Scan# 4259

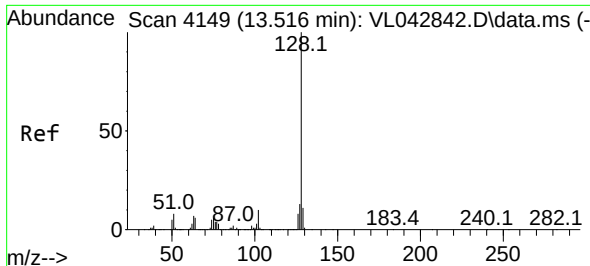
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

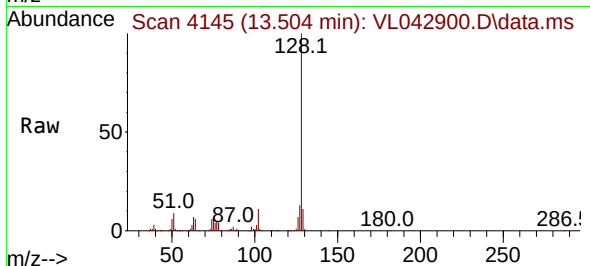
Tgt Ion:	225	Resp:	167893
Ion Ratio	Lower	Upper	
225	100		
223	63.8	51.4	77.2
227	63.3	51.9	77.9





#79
Naphthalene
Concen: 10.613 ppbv
RT: 13.504 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

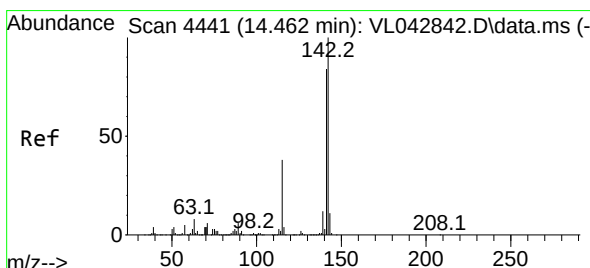
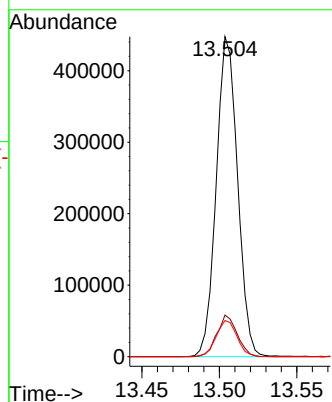
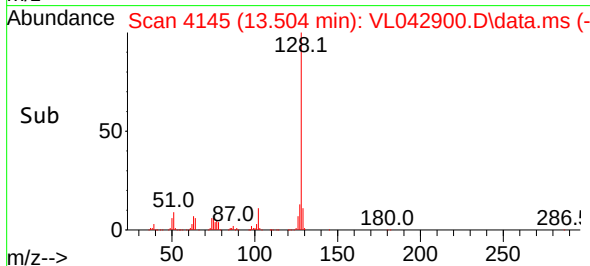
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:128 Resp: 428351
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 11.3 8.9 13.3

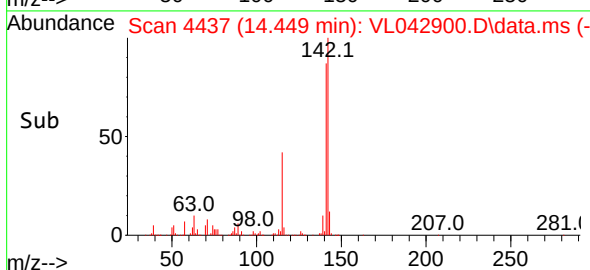
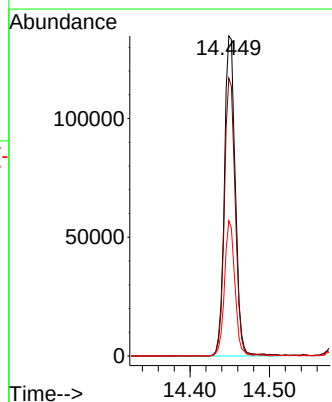
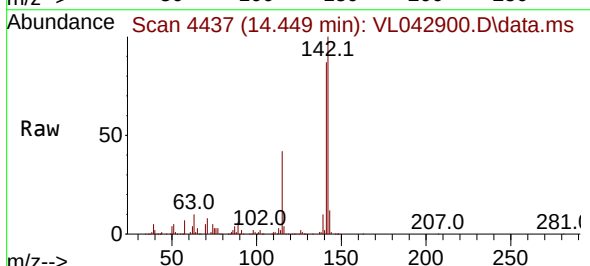
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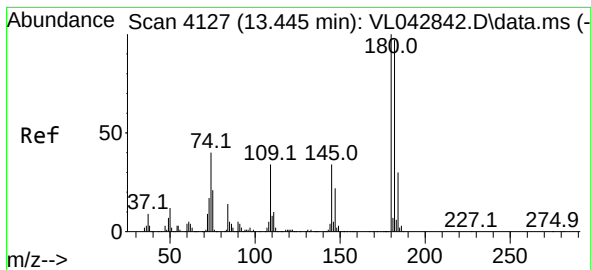
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#80
Naphthalene,2-methyl-
Concen: 8.470 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

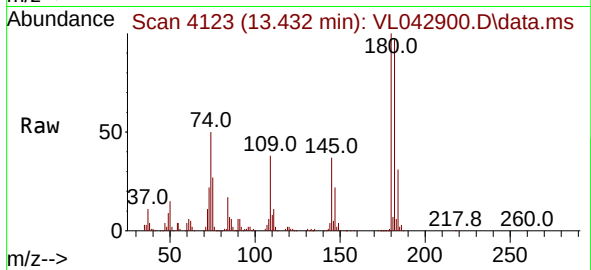
Tgt Ion:142 Resp: 127751
Ion Ratio Lower Upper
142 100
141 87.4 67.0 100.6
115 40.4 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.226 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

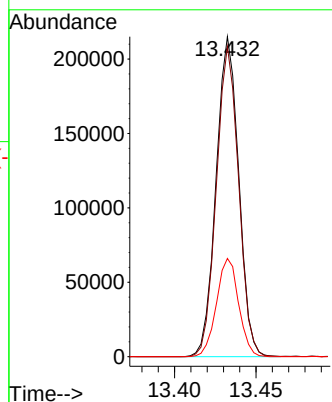
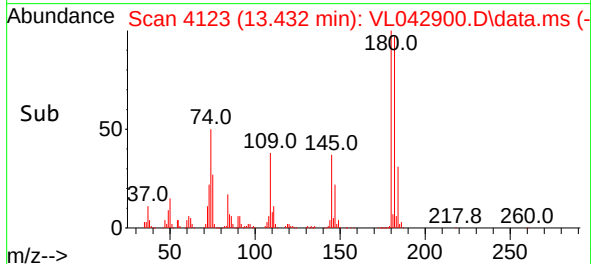
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 20745
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.9 115.3
 184 30.0 24.5 36.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	95	0.00
2 T	Dichlorodifluoromethane	1.466	1.540	-5.0	109	0.00
3	Chlorodifluoromethane	1.620	1.767	-9.1	111	0.00
4	Chloromethane	0.591	0.591	0.0	105	0.00
5 T	Vinyl Chloride	0.582	0.560	3.8	106	0.00
6 T	Bromomethane	0.233	0.225	3.4	106	0.00
7	Chloroethane	0.227	0.225	0.9	106	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.250	-4.3	106	0.00
9 T	Propene	0.700	0.700	0.0	102	0.00
10 T	Heptane	1.874	1.855	1.0	103	0.00
11 T	Trichlorofluoromethane	1.446	1.487	-2.8	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.163	-1.0	106	0.00
13	Ethanol	0.064	0.052	18.8	106	0.00
14 T	Bromoethene	0.417	0.424	-1.7	106	0.00
15 T	Acetone	1.323	1.147	13.3	115	0.00
16 T	1,3-Butadiene	0.600	0.558	7.0	106	0.00
17	tert-Butyl alcohol	1.569	1.345	14.3	93	0.00
18 T	1,1-Dichloroethene	0.507	0.502	1.0	102	0.00
19 T	Isopropyl Alcohol	0.790	0.703	11.0	103	0.00
20 T	Methylene Chloride	0.554	0.455	17.9	105	0.00
21 T	Allyl Chloride	0.935	0.903	3.4	101	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.585	0.2	104	0.00
23 T	Vinyl Acetate	1.819	1.802	0.9	103	0.00
24 T	1,1-Dichloroethane	1.171	1.205	-2.9	110	0.00
25 T	Ethyl Acetate	3.202	3.279	-2.4	106	0.00
26 T	Hexane	1.478	1.482	-0.3	101	0.00
27 T	Carbon Disulfide	1.438	1.526	-6.1	110	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.677	10.2	98	0.00
29 T	Chloroform	2.110	2.223	-5.4	110	0.00
30 T	Cyclohexane	1.296	1.208	6.8	95	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.441	2.4	102	0.00
32 T	1,1,1-Trichloroethane	2.230	2.143	3.9	102	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
34 T	2-Butanone	0.675	0.818	-21.2	108	0.00
35 T	Carbon Tetrachloride	0.689	0.807	-17.1	102	0.00
36 T	Benzene	0.958	1.097	-14.5	97	0.00
37 T	1,2-Dichloroethane	0.500	0.635	-27.0	106	0.00
38 T	Trichloroethene	0.437	0.455	-4.1	92	0.00
39 T	1,2-Dichloropropane	0.350	0.419	-19.7	104	0.00
40 T	1,4-Dioxane	0.166	0.168	-1.2	91	0.00
41 T	Tetrahydrofuran	0.376	0.447	-18.9	101	0.00
42 T	Bromodichloromethane	0.745	0.905	-21.5	103	0.00
43	Methyl Methacrylate	0.394	0.425	-7.9	93	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.892	-16.4	101	0.00
45 T	t-1,3-Dichloropropene	0.445	0.463	-4.0	87	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.602	-8.5	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.432	-16.4	102	0.00
48 T	Dibromochloromethane	0.600	0.685	-14.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	0.495	0.552	-11.5	91	0.00
50 T	4-Methyl-2-Pentanone	0.913	1.077	-18.0	99	0.00
51 T	2-Hexanone	0.718	0.853	-18.8	98	0.00
52 T	Tetrachloroethene	0.346	0.331	4.3	85	0.00
53 T	Toluene	1.138	1.205	-5.9	91	0.00
54 T	1,2-Dibromoethane	0.542	0.612	-12.9	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.602	-16.4	97	0.00
57 T	Chlorobenzene	0.951	1.101	-15.8	96	0.00
58 T	Ethyl Benzene	1.765	1.974	-11.8	92	0.00
59 T	m/p-Xylene	1.383	1.618	-17.0	96	0.00
60 T	o-Xylene	1.391	1.630	-17.2	98	0.00
61 T	Styrene	0.652	0.690	-5.8	86	0.00
62	Isopropylbenzene	2.033	2.317	-14.0	96	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.942	-23.1	107	0.00
64	n-propylbenzene	0.519	0.582	-12.1	94	0.00
65	tert-Butylbenzene	1.793	1.985	-10.7	94	0.00
66 T	Benzyl Chloride	0.228	0.180	21.1	60	0.00
67	sec-Butylbenzene	2.516	2.946	-17.1	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.786	-4.8	80	0.00
69	p-Isopropyltoluene	2.160	2.361	-9.3	95	0.00
70	n-Butylbenzene	2.142	2.514	-17.4	100	0.00
71	2-Chlorotoluene	1.579	1.761	-11.5	95	0.00
72 T	4-Ethyltoluene	1.687	1.961	-16.2	96	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.593	-11.1	94	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.799	-14.3	99	0.00
75 T	1,3-Dichlorobenzene	0.895	1.024	-14.4	94	0.00
76 T	1,4-Dichlorobenzene	0.905	1.016	-12.3	93	0.00
77 T	1,2-Dichlorobenzene	0.876	0.995	-13.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.594	17.3	79	0.00
79 T	Naphthalene	1.427	1.515	-6.2	88	0.00
80 T	Naphthalene,2-methyl-	0.533	0.452	15.2	72	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.734	-2.4	85	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	95	0.00
2 T	Dichlorodifluoromethane	10.000	10.511	-5.1	109	0.00
3	Chlorodifluoromethane	10.000	10.910	-9.1	111	0.00
4	Chloromethane	10.000	9.988	0.1	105	0.00
5 T	Vinyl Chloride	10.000	9.609	3.9	106	0.00
6 T	Bromomethane	10.000	9.659	3.4	106	0.00
7	Chloroethane	10.000	9.889	1.1	106	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.420	-4.2	106	0.00
9 T	Propene	10.000	10.009	-0.1	102	0.00
10 T	Heptane	10.000	9.898	1.0	103	0.00
11 T	Trichlorofluoromethane	10.000	10.280	-2.8	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.089	-0.9	106	0.00
13	Ethanol	10.000	8.052	19.5	106	0.00
14 T	Bromoethene	10.000	10.171	-1.7	106	0.00
15 T	Acetone	10.000	8.670	13.3	115	0.00
16 T	1,3-Butadiene	10.000	9.308	6.9	106	0.00
17	tert-Butyl alcohol	10.000	8.574	14.3	93	0.00
18 T	1,1-Dichloroethene	10.000	9.900	1.0	102	0.00
19 T	Isopropyl Alcohol	10.000	8.893	11.1	103	0.00
20 T	Methylene Chloride	10.000	8.219	17.8	105	0.00
21 T	Allyl Chloride	10.000	9.658	3.4	101	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.971	0.3	104	0.00
23 T	Vinyl Acetate	10.000	9.907	0.9	103	0.00
24 T	1,1-Dichloroethane	10.000	10.291	-2.9	110	0.00
25 T	Ethyl Acetate	10.000	10.242	-2.4	106	0.00
26 T	Hexane	10.000	10.031	-0.3	101	0.00
27 T	Carbon Disulfide	10.000	10.608	-6.1	110	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.986	10.1	98	0.00
29 T	Chloroform	10.000	10.538	-5.4	110	0.00
30 T	Cyclohexane	10.000	9.326	6.7	95	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.765	2.3	102	0.00
32 T	1,1,1-Trichloroethane	10.000	9.609	3.9	102	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	81	0.00
34 T	2-Butanone	10.000	12.107	-21.1	108	0.00
35 T	Carbon Tetrachloride	10.000	11.700	-17.0	102	0.00
36 T	Benzene	10.000	11.458	-14.6	97	0.00
37 T	1,2-Dichloroethane	10.000	12.686	-26.9	106	0.00
38 T	Trichloroethene	10.000	10.413	-4.1	92	0.00
39 T	1,2-Dichloropropane	10.000	11.970	-19.7	104	0.00
40 T	1,4-Dioxane	10.000	10.096	-1.0	91	0.00
41 T	Tetrahydrofuran	10.000	11.863	-18.6	101	0.00
42 T	Bromodichloromethane	10.000	12.136	-21.4	103	0.00
43	Methyl Methacrylate	10.000	10.776	-7.8	93	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.642	-16.4	101	0.00
45 T	t-1,3-Dichloropropene	10.000	10.411	-4.1	87	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.851	-8.5	90	0.00
47 T	1,1,2-Trichloroethane	10.000	11.666	-16.7	102	0.00
48 T	Dibromochloromethane	10.000	11.430	-14.3	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	11.158	-11.6	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.801	-18.0	99	0.00
51 T	2-Hexanone	10.000	11.872	-18.7	98	0.00
52 T	Tetrachloroethene	10.000	9.547	4.5	85	0.00
53 T	Toluene	10.000	10.587	-5.9	91	0.00
54 T	1,2-Dibromoethane	10.000	11.307	-13.1	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	76	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.648	-16.5	97	0.00
57 T	Chlorobenzene	10.000	11.581	-15.8	96	0.00
58 T	Ethyl Benzene	10.000	11.184	-11.8	92	0.00
59 T	m/p-Xylene	20.000	23.388	-16.9	96	0.00
60 T	o-Xylene	10.000	11.716	-17.2	98	0.00
61 T	Styrene	10.000	10.579	-5.8	86	0.00
62	Isopropylbenzene	10.000	11.394	-13.9	96	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.314	-23.1	107	0.00
64	n-propylbenzene	10.000	11.220	-12.2	94	0.00
65	tert-Butylbenzene	10.000	11.075	-10.7	94	0.00
66 T	Benzyl Chloride	10.000	7.895	21.1	60	0.00
67	sec-Butylbenzene	10.000	11.709	-17.1	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.483	-4.8	80	0.00
69	p-Isopropyltoluene	10.000	10.929	-9.3	95	0.00
70	n-Butylbenzene	10.000	11.736	-17.4	100	0.00
71	2-Chlorotoluene	10.000	11.156	-11.6	95	0.00
72 T	4-Ethyltoluene	10.000	11.624	-16.2	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.105	-11.1	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.424	-14.2	99	0.00
75 T	1,3-Dichlorobenzene	10.000	11.445	-14.5	94	0.00
76 T	1,4-Dichlorobenzene	10.000	11.226	-12.3	93	0.00
77 T	1,2-Dichlorobenzene	10.000	11.351	-13.5	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.266	17.3	79	0.00
79 T	Naphthalene	10.000	10.613	-6.1	88	0.00
80 T	Naphthalene,2-methyl-	10.000	8.470	15.3	72	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.226	-2.3	85	0.00

(#) = Out of Range

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



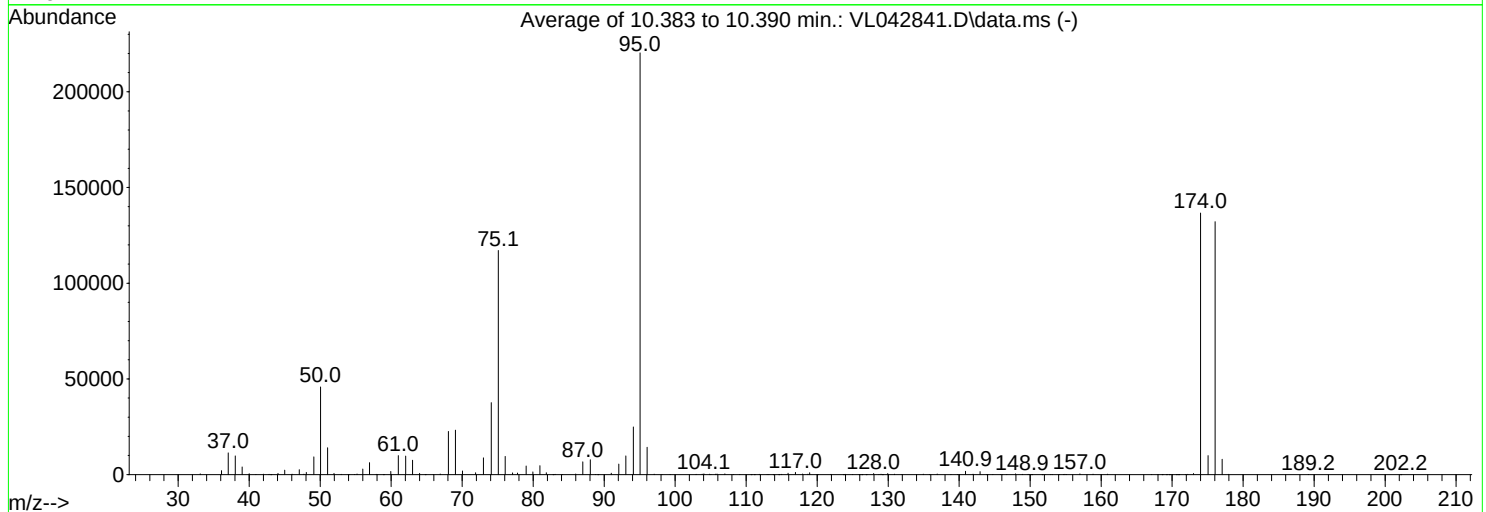
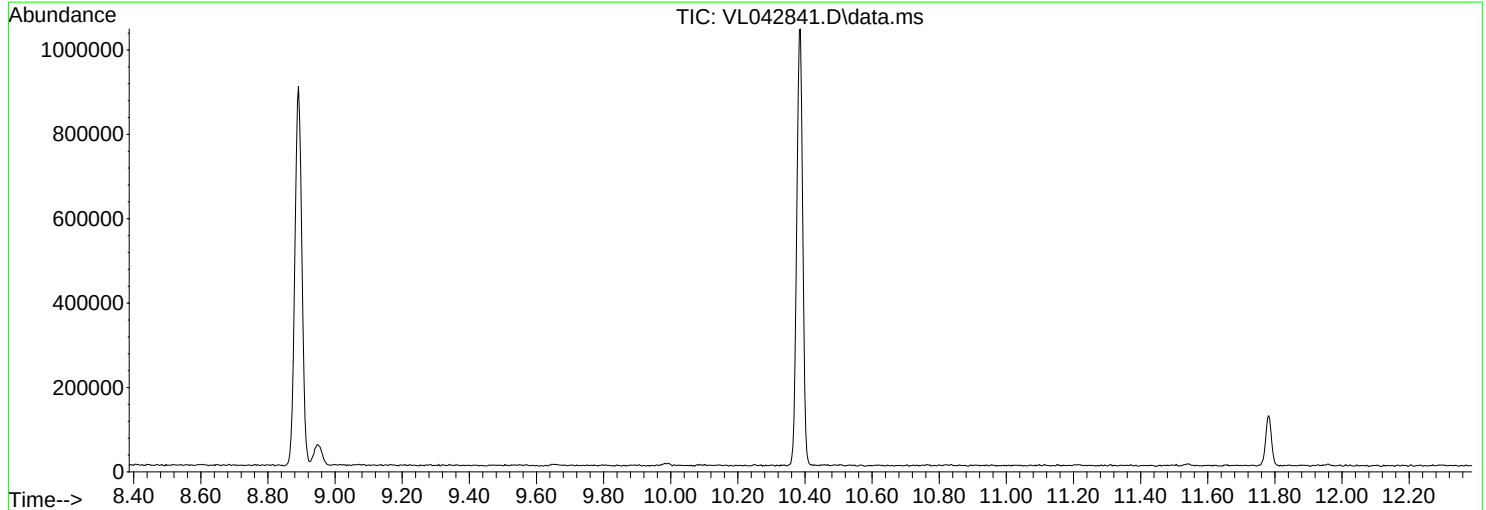
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042841.D
Acq On : 13 Aug 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3165

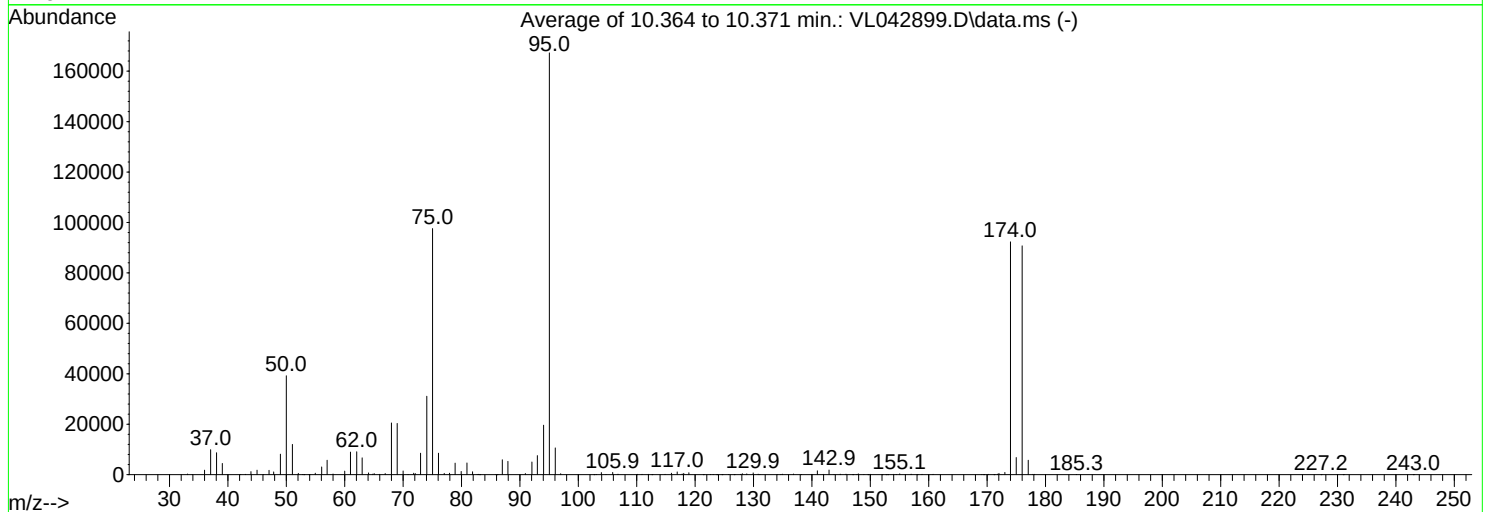
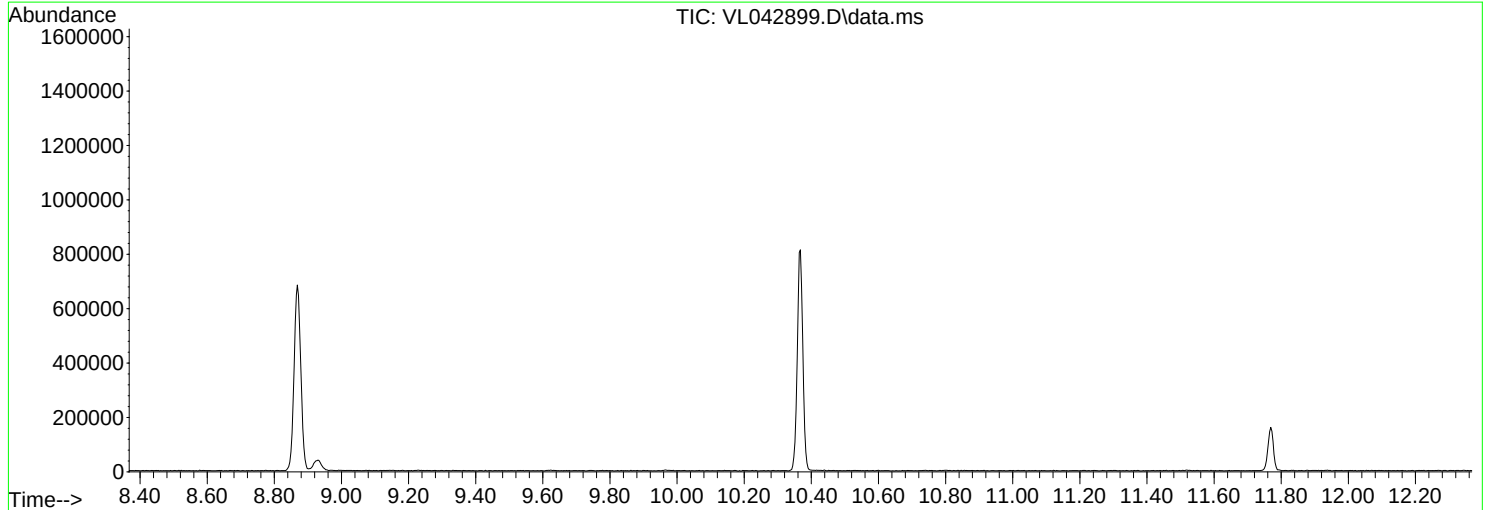
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	132147	PASS
177	176	5	9	6.1	8054	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042899.D
Acq On : 08 Sep 2025 08:41
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 09 00:52:26 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	39187	PASS
75	95	30	66	58.3	97600	PASS
95	95	100	100	100.0	167275	PASS
96	95	5	9	6.4	10626	PASS
173	174	0.00	2	1.0	912	PASS
174	95	50	120	55.2	92299	PASS
175	174	4	9	7.3	6771	PASS
176	174	93	101	98.3	90712	PASS
177	176	5	9	6.3	5742	PASS

Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	
Client Sample ID:	VL0908ABL01	SDG No.:	Q3038
Lab Sample ID:	VL0908ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042901.D	1		09/08/25 11:55	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	141000		2.784		
540-36-3	1,4-Difluorobenzene	355000		3.952		
3114-55-4	Chlorobenzene-d5	299000		8.875		

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\VL090825\
 Data File : VL042901.D
 Acq On : 08 Sep 2025 11:55
 Operator : SY/MD
 Sample : VL0908ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABL01

Quant Time: Sep 09 00:55:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	141293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	355217	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	298537	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	227668	10.169	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

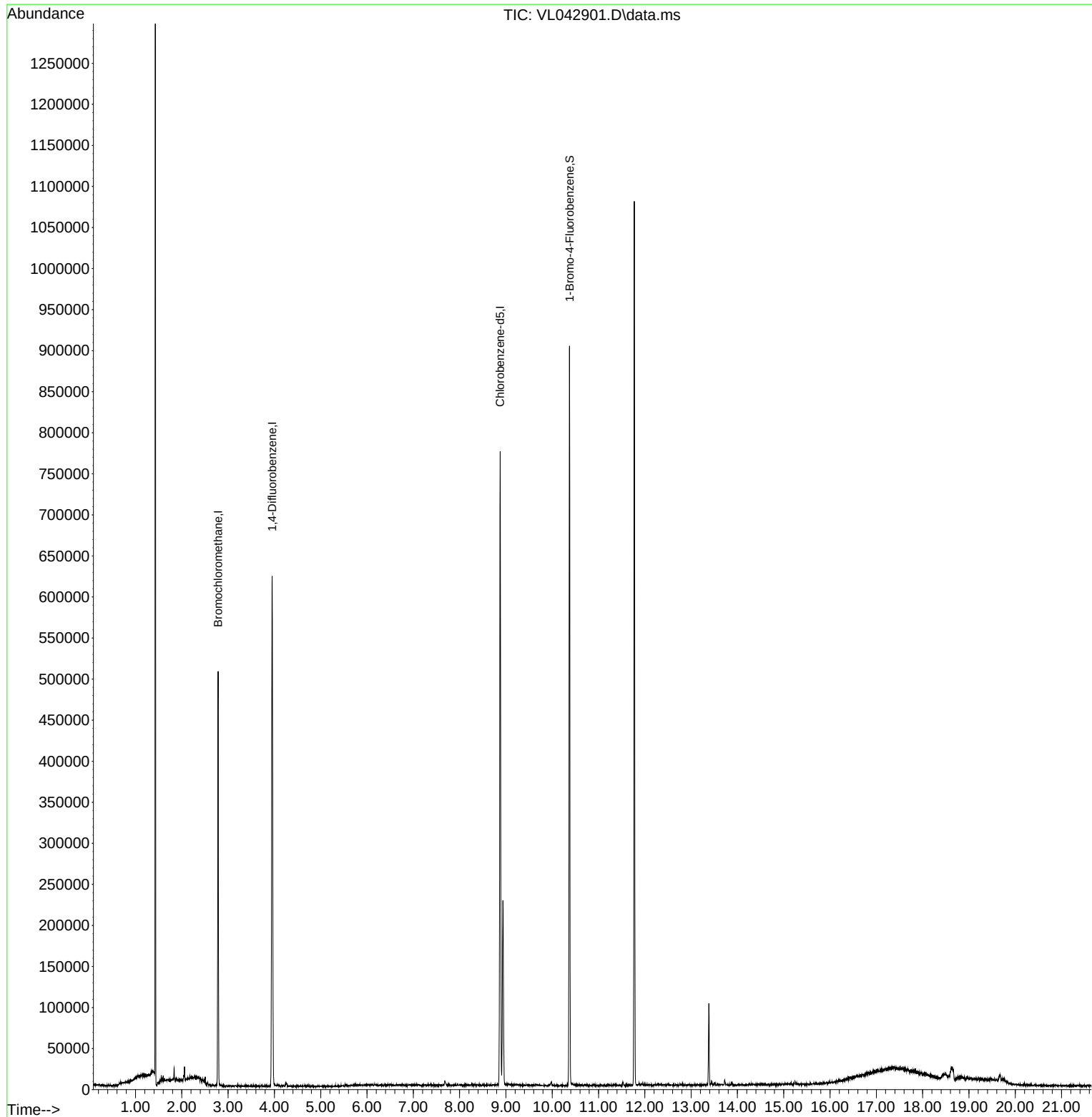
Target Compounds	Qvalue

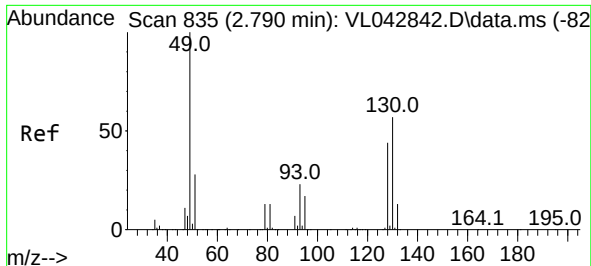
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042901.D
Acq On : 08 Sep 2025 11:55
Operator : SY/MD
Sample : VL0908ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Quant Time: Sep 09 00:55:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

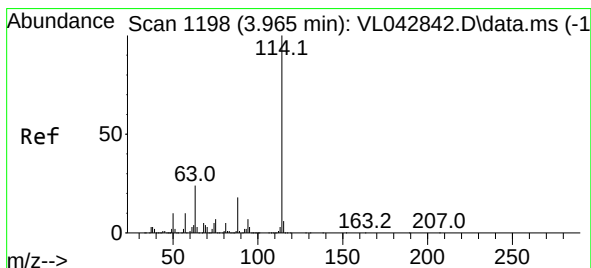
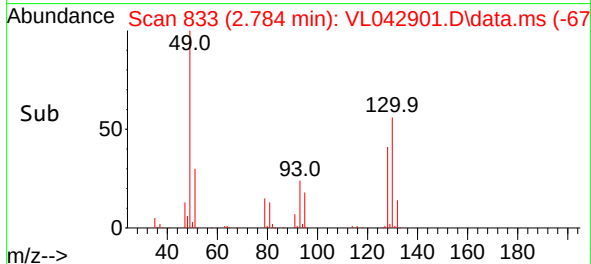
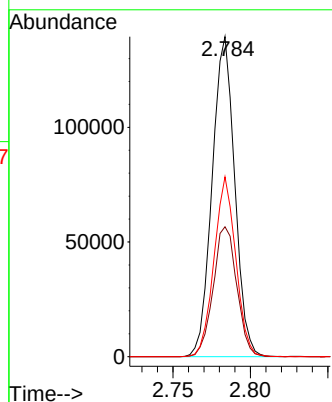
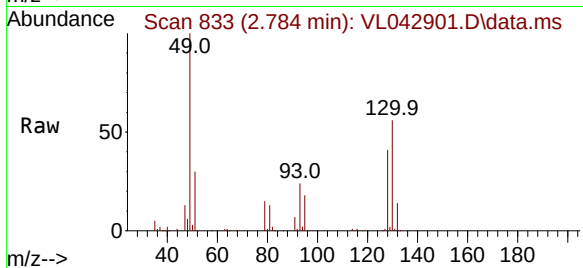




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

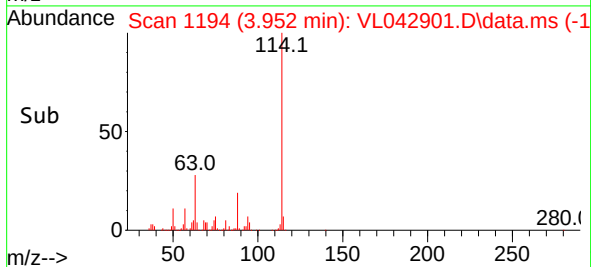
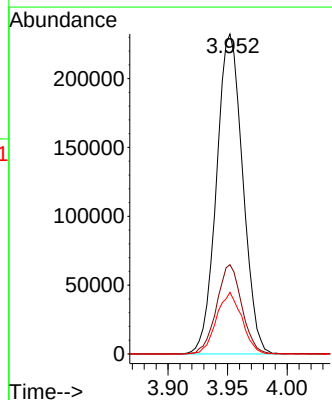
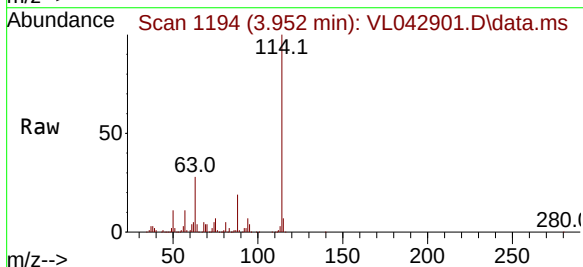
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

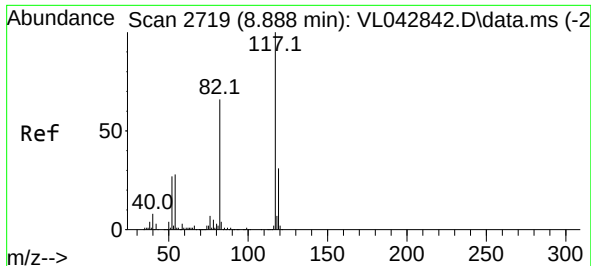
Tgt Ion: 49 Resp: 141293
Ion Ratio Lower Upper
49 100
128 42.4 23.7 71.1
130 54.2 30.6 91.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.009 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Tgt Ion: 114 Resp: 355217
Ion Ratio Lower Upper
114 100
63 26.9 19.7 29.5
88 18.7 14.4 21.6

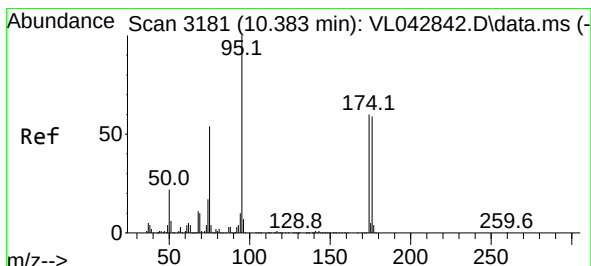
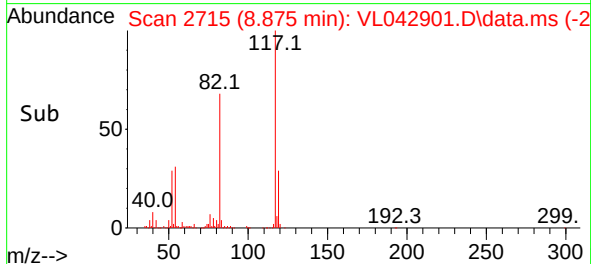
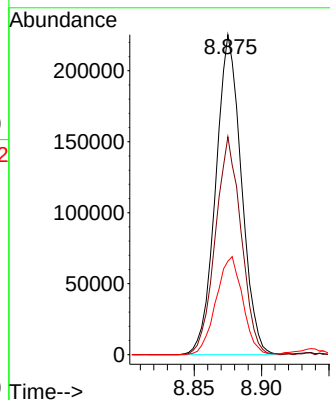
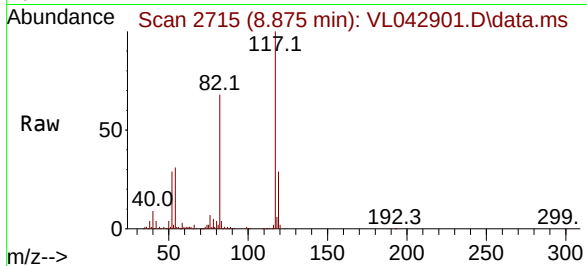




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

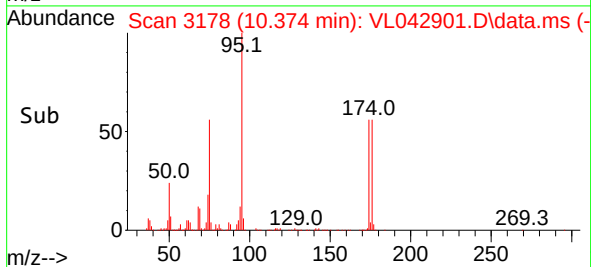
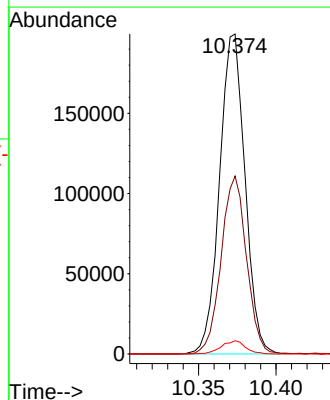
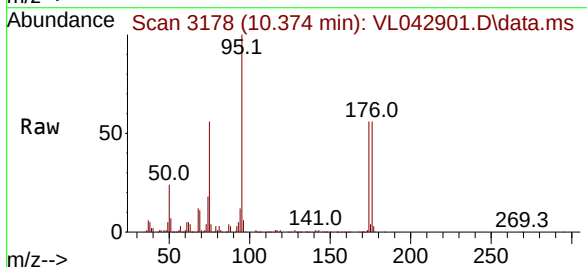
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Tgt Ion:117 Resp: 298537
Ion Ratio Lower Upper
117 100
82 68.4 54.6 81.8
119 31.8 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.169 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.009 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Tgt Ion: 95 Resp: 227668
Ion Ratio Lower Upper
95 100
174 55.5 48.4 72.6
175 3.9 3.8 5.8



Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	
Client Sample ID:	VL0908ABS01	SDG No.:	Q3038
Lab Sample ID:	VL0908ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042902.D	1		09/08/25 13:35	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	9.60	24.5		0.080	0.080
107-06-2	1,2-Dichloroethane	12.7	51.4		0.36	2.02
79-01-6	Trichloroethene	10.4	55.9		0.11	0.16
127-18-4	Tetrachloroethene	9.60	65.1		0.14	0.20
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.5			70 (65) - 130 (135)	105% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	140000		2.781		
540-36-3	1,4-Difluorobenzene	366000		3.946		
3114-55-4	Chlorobenzene-d5	306000		8.872		

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\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	139945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	365857	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306385	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 240840 10.481 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	220085	10.731	ppbv	99
3) Chlorodifluoromethane	1.470	51	263595	11.627	ppbv	98
4) Chloromethane	1.528	50	84783	10.244	ppbv	99
5) Vinyl Chloride	1.577	62	78545	9.636	ppbv	99
6) Bromomethane	1.664	94	31405	9.636	ppbv	96
7) Chloroethane	1.700	64	30810	9.679	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	175617	10.464	ppbv	96
9) Propene	1.476	41	56496m	5.770	ppbv	
10) Heptane	4.965	43	256593	9.785	ppbv	99
11) Trichlorofluoromethane	1.871	101	206104	10.185	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	164464	10.197	ppbv	96
13) Ethanol	1.716	45	7225	8.071	ppbv	92
14) Bromoethene	1.777	108	58442	10.009	ppbv	99
15) Acetone	1.829	43	156147	8.435	ppbv	99
16) 1,3-Butadiene	1.606	39	77632	9.250	ppbv	97
17) tert-Butyl alcohol	2.036	59	176056	8.020	ppbv	99
18) 1,1-Dichloroethene	2.026	96	68830	9.707	ppbv	97
19) Isopropyl Alcohol	1.881	45	97198	8.791	ppbv	93
20) Methylene Chloride	2.056	84	62334	8.038	ppbv	93
21) Allyl Chloride	2.091	41	125191	9.573	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	82077	10.005	ppbv	98
23) Vinyl Acetate	2.454	43	270676	10.634	ppbv #	99
24) 1,1-Dichloroethane	2.402	63	164910	10.066	ppbv	99
25) Ethyl Acetate	2.826	43	458640	10.237	ppbv	99
26) Hexane	2.816	57	207705	10.043	ppbv	95
27) Carbon Disulfide	2.143	76	206751	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	95768	9.082	ppbv	93
29) Chloroform	2.839	83	311859	10.562	ppbv	97
30) Cyclohexane	3.845	84	169353	9.340	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	202349	9.796	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	293618	9.409	ppbv	96
34) 2-Butanone	2.551	43	298071	12.066	ppbv	98
35) Carbon Tetrachloride	3.748	117	297085	11.779	ppbv	98
36) Benzene	3.645	78	407263	11.625	ppbv	99
37) 1,2-Dichloroethane	3.208	62	232809	12.720	ppbv	99
38) Trichloroethene	4.532	130	166529	10.408	ppbv	96
39) 1,2-Dichloropropane	4.302	63	153042	11.961	ppbv	96
40) 1,4-Dioxane	4.567	88	61682	10.138	ppbv #	88
41) Tetrahydrofuran	3.046	42	164268	11.927	ppbv	97
42) Bromodichloromethane	4.473	83	336858	12.351	ppbv	98
43) Methyl Methacrylate	4.862	69	158457	10.979	ppbv	98
44) 2,2,4-Trimethylpentane	4.625	57	701486	11.797	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	169435	10.403	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

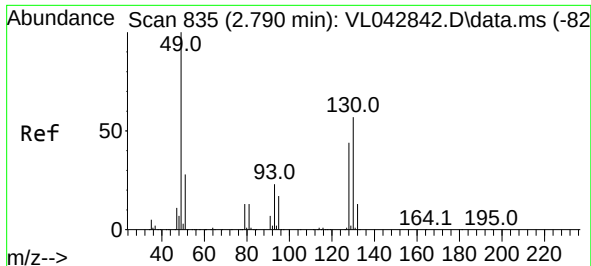
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

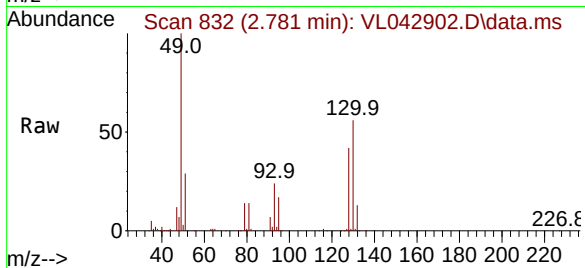
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	223871	11.031	ppbv	96
47) 1,1,2-Trichloroethane	6.564	97	156460	11.541	ppbv	95
48) Dibromochloromethane	7.373	129	256923	11.712	ppbv	99
49) Bromoform	9.474	173	203018	11.222	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	390291	11.688	ppbv	97
51) 2-Hexanone	7.422	43	311589	11.858	ppbv #	95
52) Tetrachloroethene	8.212	164	122229	9.644	ppbv	93
53) Toluene	6.920	91	447844	10.752	ppbv	99
54) 1,2-Dibromoethane	7.639	107	223417	11.277	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.917	131	190922	12.050	ppbv	98
57) Chlorobenzene	8.911	112	345342	11.855	ppbv	99
58) Ethyl Benzene	9.344	91	618650	11.442	ppbv	99
59) m/p-Xylene	9.542	91	1015739m	23.968	ppbv	
60) o-Xylene	9.956	91	504922	11.844	ppbv	99
61) Styrene	9.862	104	212594	10.644	ppbv	100
62) Isopropylbenzene	10.532	105	717761	11.521	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	295111	12.588	ppbv	99
64) n-propylbenzene	10.982	120	186258	11.717	ppbv	94
65) tert-Butylbenzene	11.523	119	633844	11.541	ppbv	97
66) Benzyl Chloride	11.607	91	55458	7.954	ppbv	99
67) sec-Butylbenzene	11.759	105	904977	11.739	ppbv	99
69) p-Isopropyltoluene	11.918	119	743217	11.229	ppbv	98
70) n-Butylbenzene	12.274	91	793205	12.084	ppbv	97
71) 2-Chlorotoluene	10.892	91	551398	11.398	ppbv	97
72) 4-Ethyltoluene	11.118	105	613510	11.871	ppbv	99
73) 1,3,5-Trimethylbenzene	11.196	105	505222	11.496	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	562868	11.668	ppbv	99
75) 1,3-Dichlorobenzene	11.600	146	322979	11.778	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	320689	11.563	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	309433	11.524	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	187990	8.542	ppbv	97
79) Naphthalene	13.507	128	477313	10.914	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	142381	8.713	ppbv	97
81) 1,2,4-Trichlorobenzene	13.432	180	228630	10.401	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

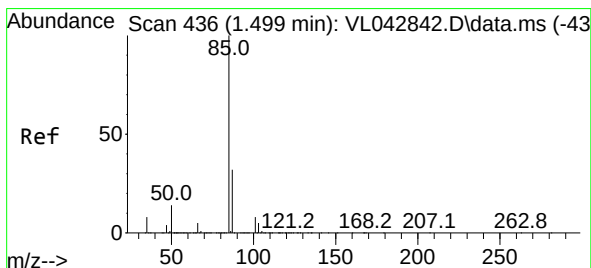
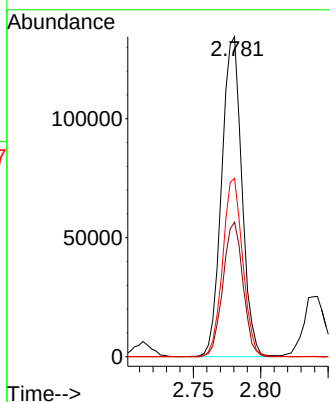
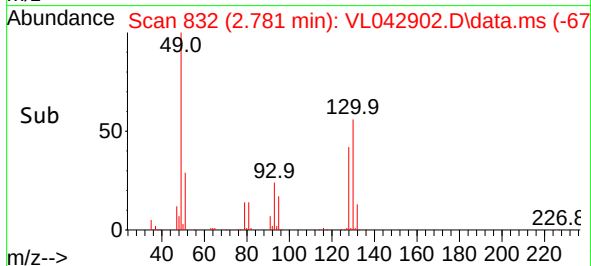
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



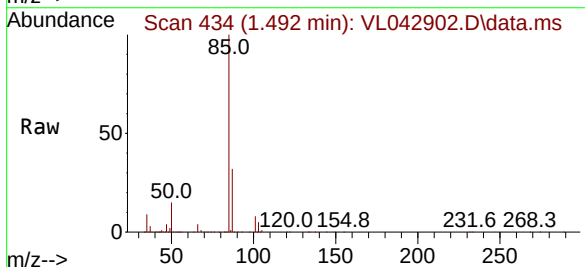
Tgt Ion: 49 Resp: 13994
Ion Ratio Lower Upper
49 100
128 41.6 23.7 71.1
130 55.2 30.6 91.6

Manual Integrations
APPROVED

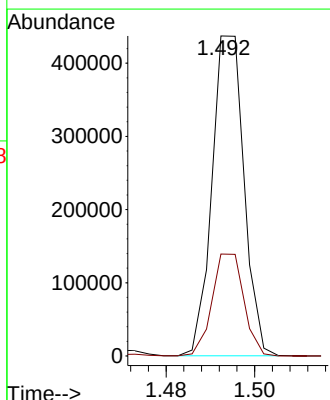
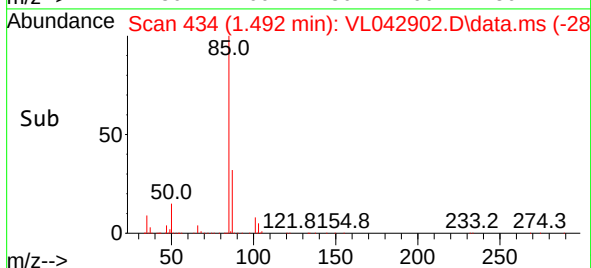
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

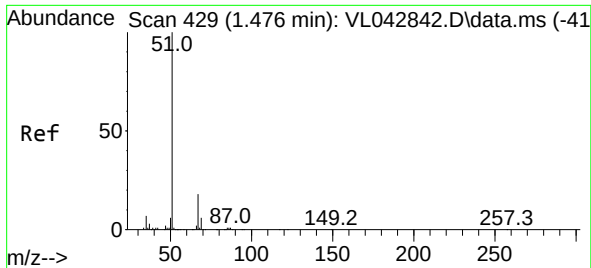


#2
Dichlorodifluoromethane
Concen: 10.731 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



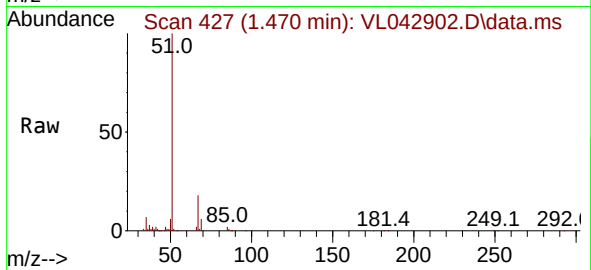
Tgt Ion: 85 Resp: 220085
Ion Ratio Lower Upper
85 100
87 31.9 25.3 37.9





#3
Chlorodifluoromethane
Concen: 11.627 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

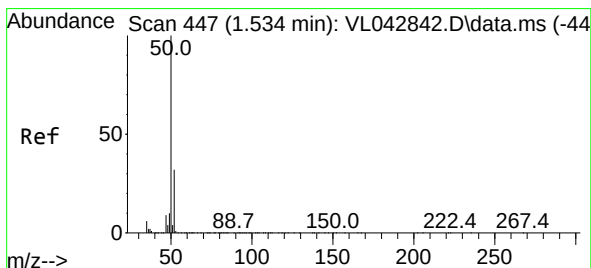
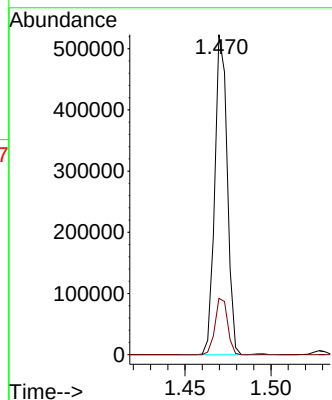
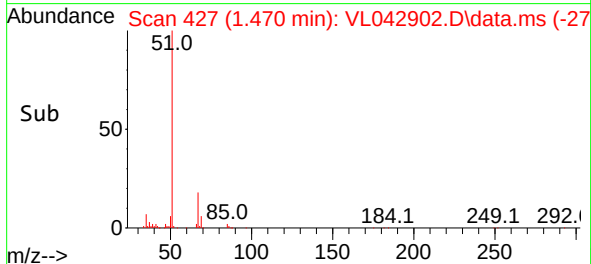
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion: 51 Resp: 26359
Ion Ratio Lower Upper
51 100
67 17.8 14.9 22.3

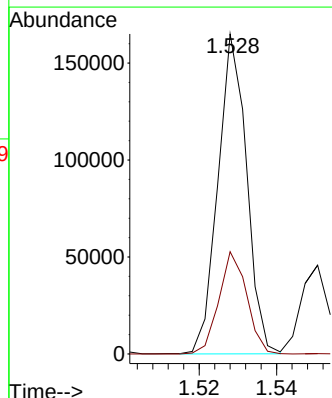
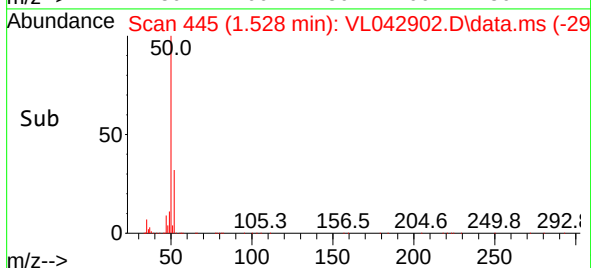
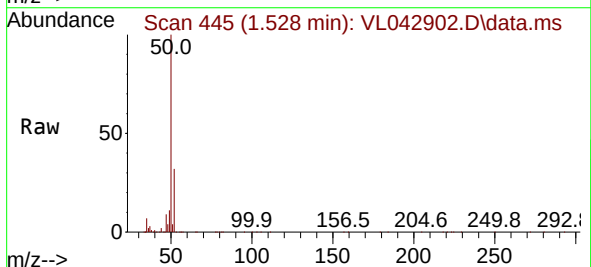
Manual Integrations
APPROVED

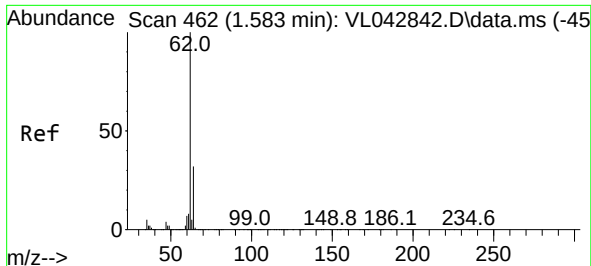
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

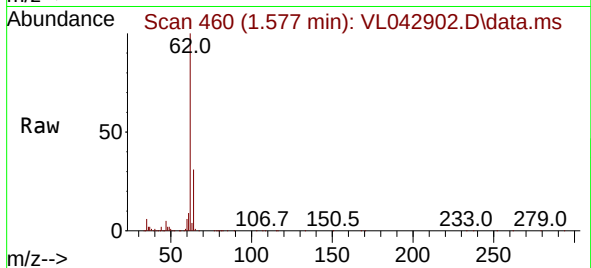
Tgt Ion: 50 Resp: 84783
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9





#5
 Vinyl Chloride
 Concen: 9.636 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

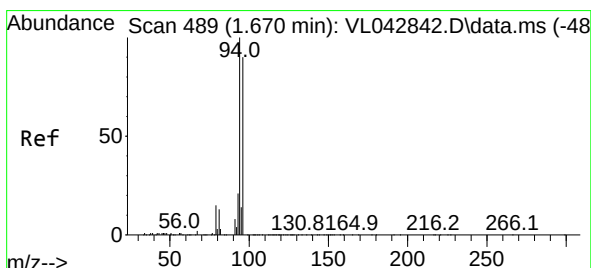
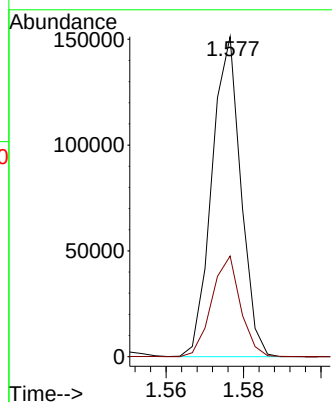
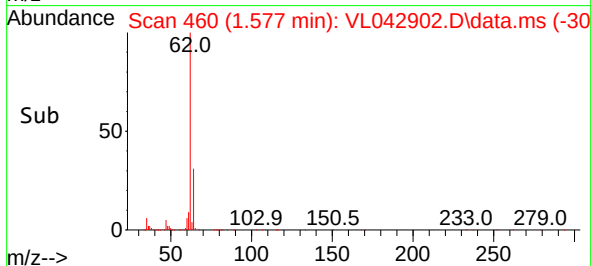
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



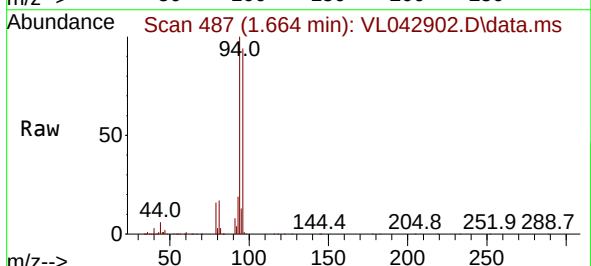
Tgt Ion: 62 Resp: 78549
 Ion Ratio Lower Upper
 62 100
 64 31.5 25.4 38.2

Manual Integrations
 APPROVED

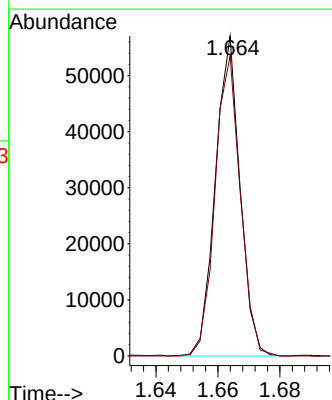
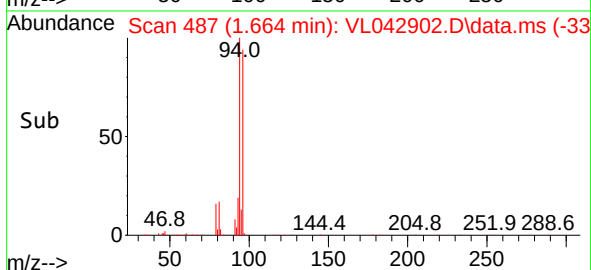
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

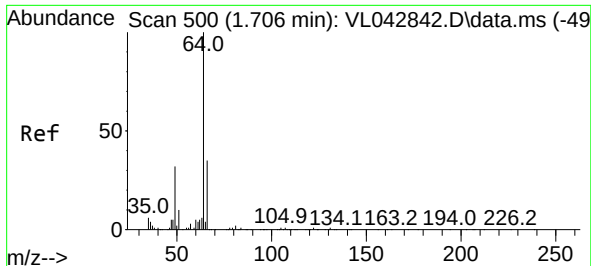


#6
 Bromomethane
 Concen: 9.636 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



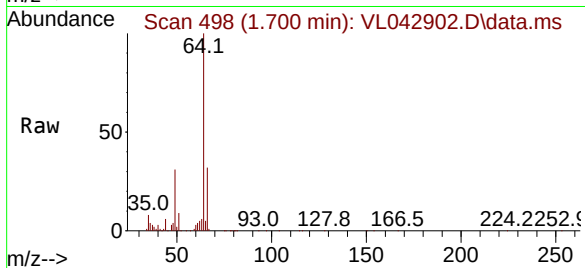
Tgt Ion: 94 Resp: 31405
 Ion Ratio Lower Upper
 94 100
 96 93.8 72.1 108.1





#7
Chloroethane
Concen: 9.679 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

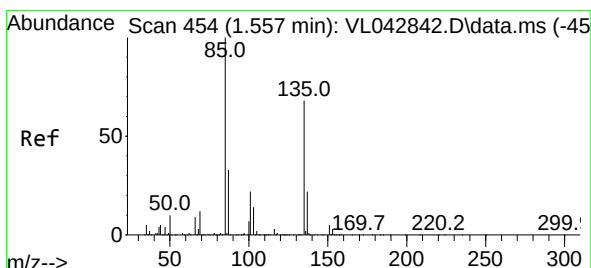
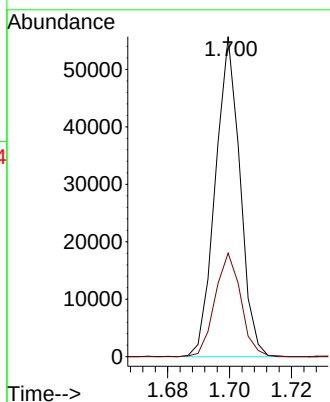
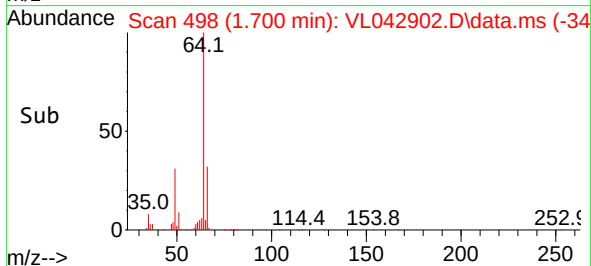
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



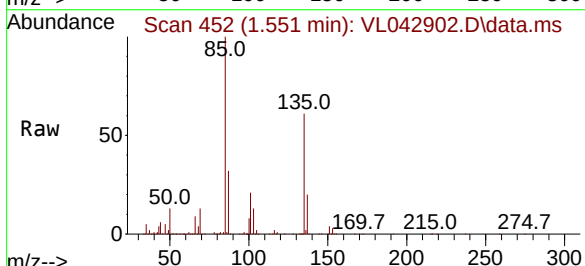
Tgt Ion: 64 Resp: 30810
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8

Manual Integrations
APPROVED

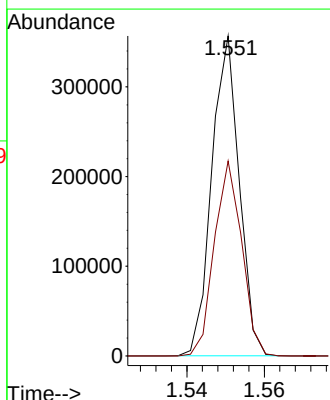
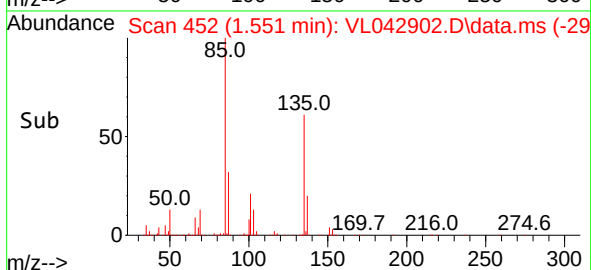
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

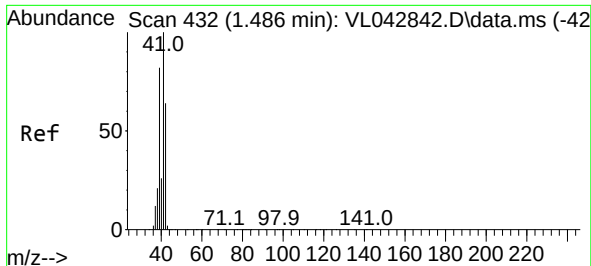


#8
Dichlorotetrafluoroethane
Concen: 10.464 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



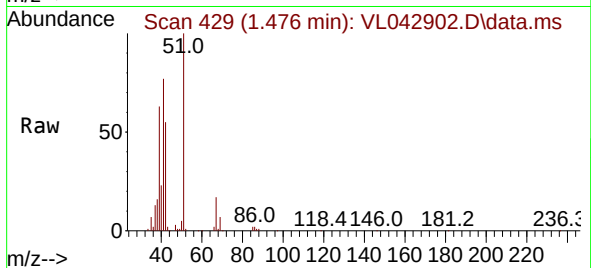
Tgt Ion: 85 Resp: 175617
Ion Ratio Lower Upper
85 100
135 60.9 51.2 76.8





#9
Propene
Concen: 5.770 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

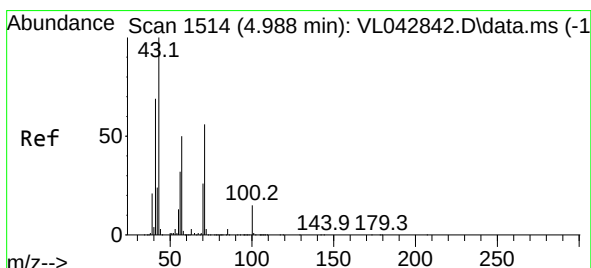
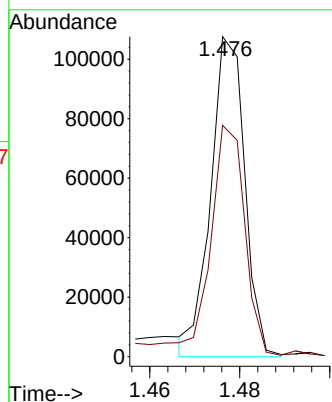
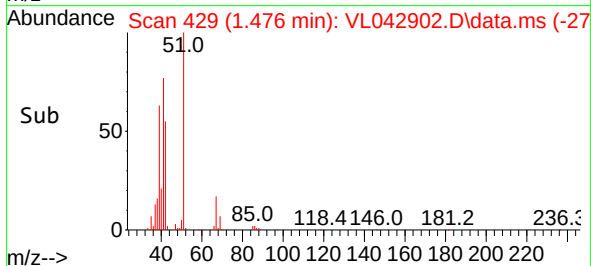
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion: 41 Resp: 56490
Ion Ratio Lower Upper
41 100
42 10.7 53.0 79.4

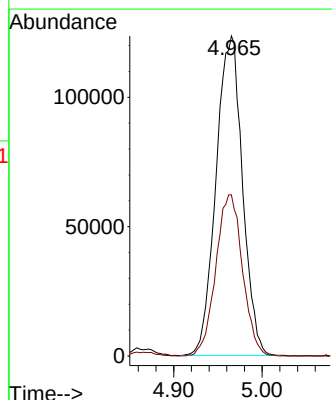
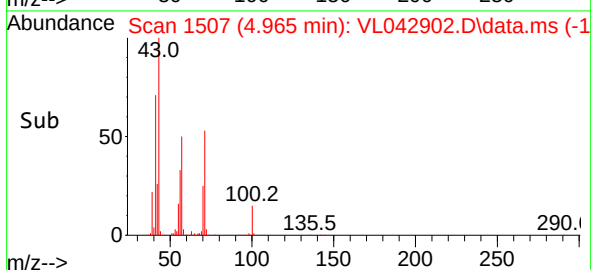
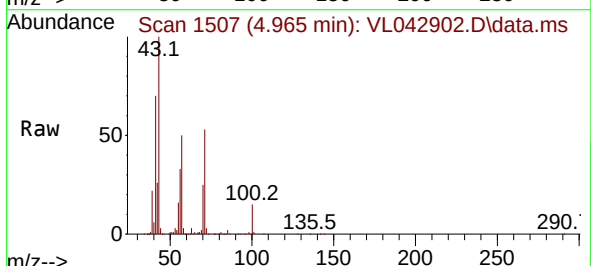
Manual Integrations
APPROVED

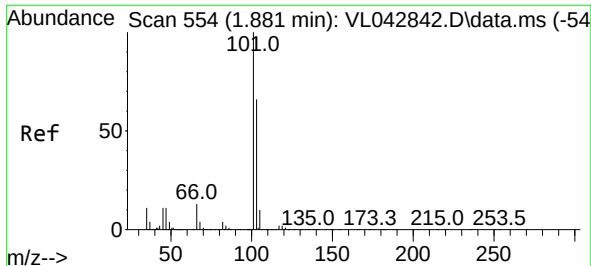
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#10
Heptane
Concen: 9.785 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

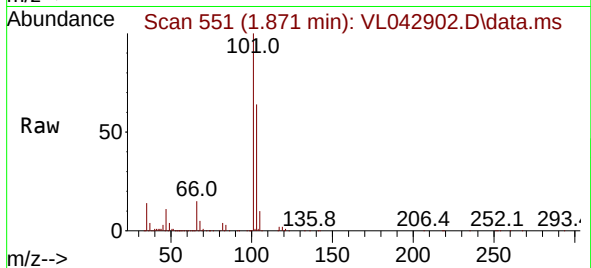
Tgt Ion: 43 Resp: 256593
Ion Ratio Lower Upper
43 100
57 50.9 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 10.185 ppbv
 RT: 1.871 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

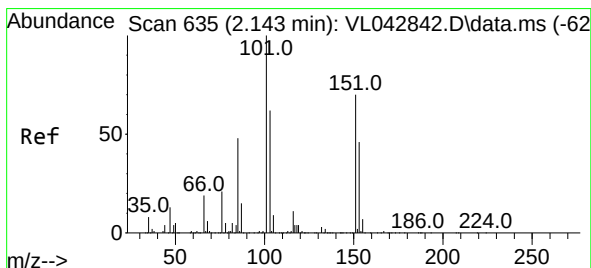
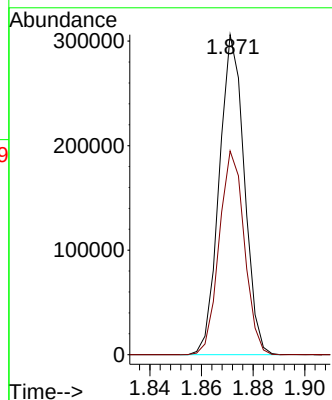
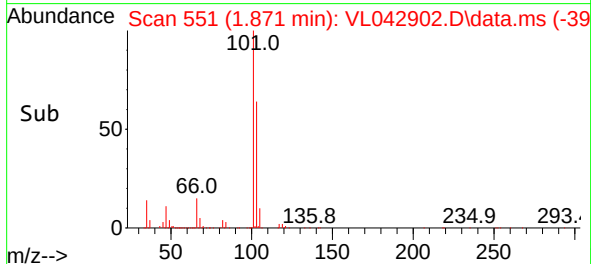
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



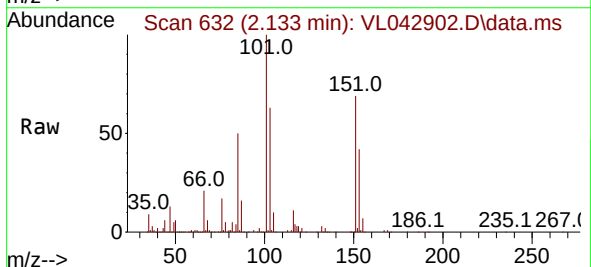
Tgt Ion:101 Resp: 206104
 Ion Ratio Lower Upper
 101 100
 103 63.6 52.5 78.7

Manual Integrations
 APPROVED

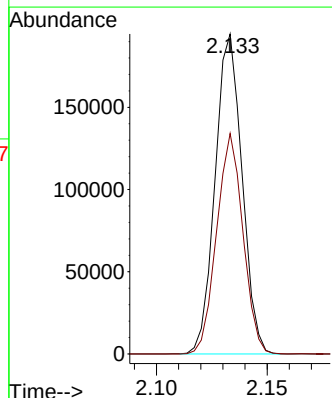
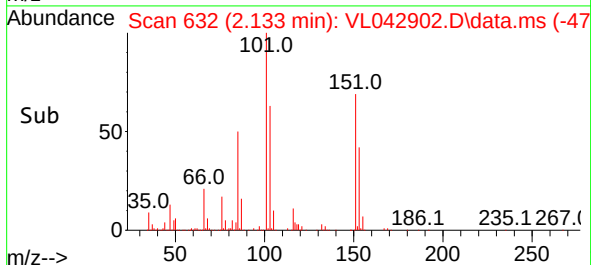
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

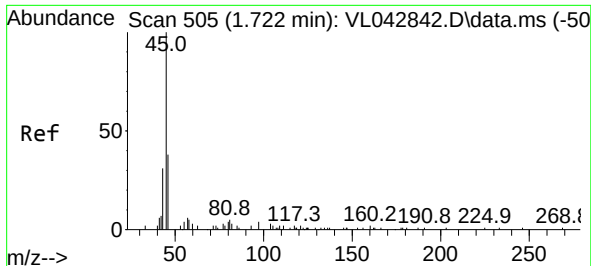


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.197 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



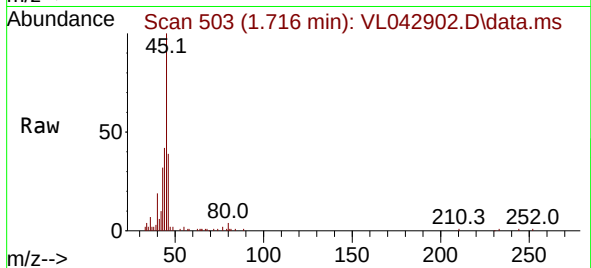
Tgt Ion:101 Resp: 164464
 Ion Ratio Lower Upper
 101 100
 151 67.4 56.4 84.6





#13
Ethanol
Concen: 8.071 ppbv
RT: 1.716 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

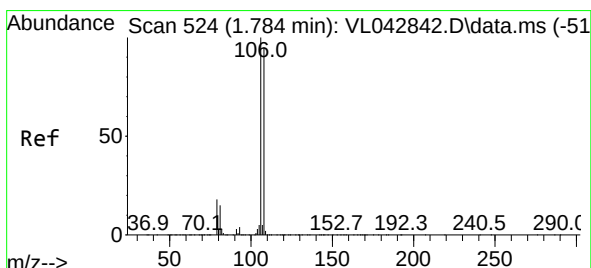
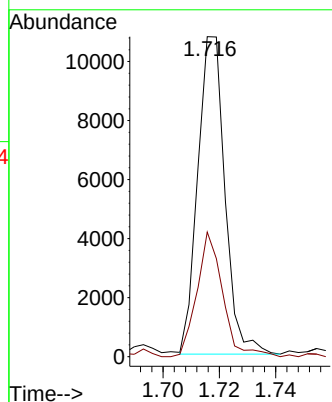
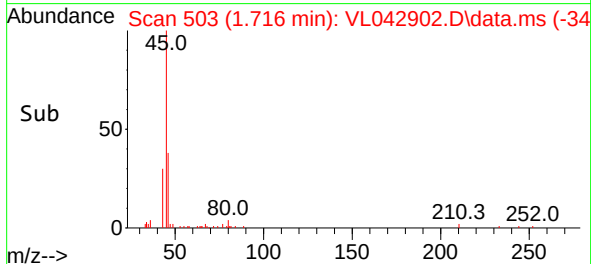
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



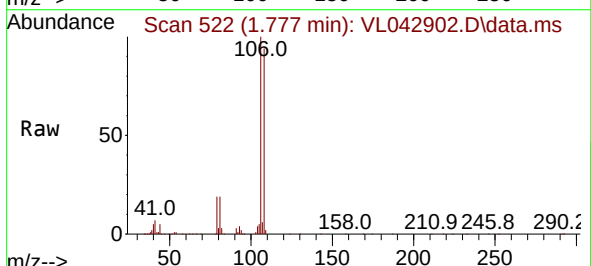
Tgt Ion: 45 Resp: 7225
Ion Ratio Lower Upper
45 100
46 38.4 17.5 69.9

Manual Integrations
APPROVED

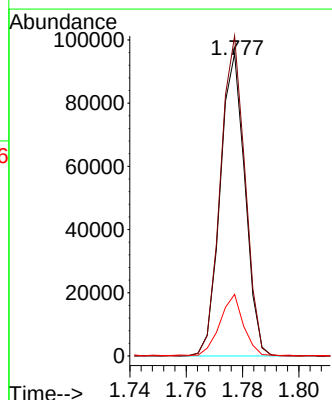
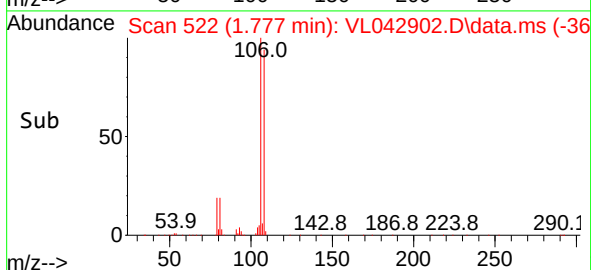
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

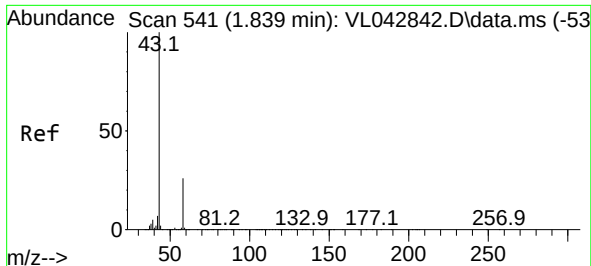


#14
Bromoethene
Concen: 10.009 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



Tgt Ion:108 Resp: 58442
Ion Ratio Lower Upper
108 100
106 104.8 85.1 127.7
79 20.1 16.3 24.5





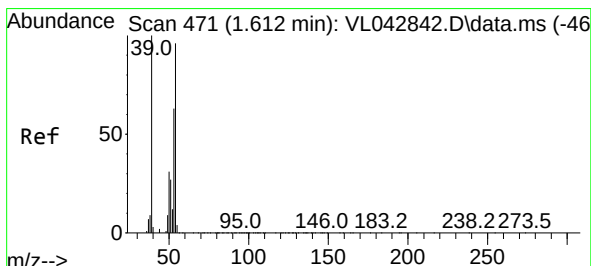
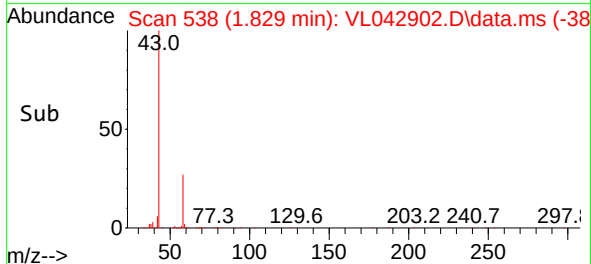
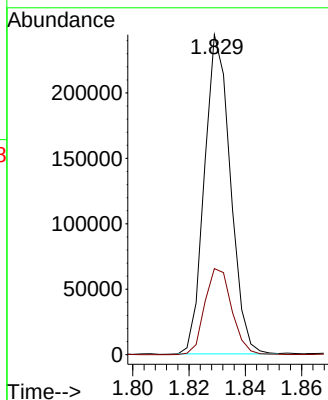
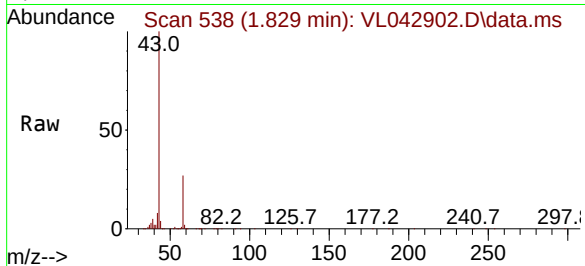
#15
Acetone
Concen: 8.435 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 15614
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6

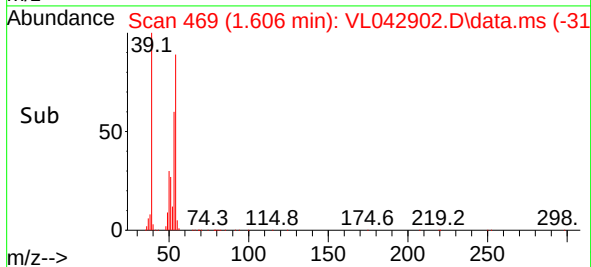
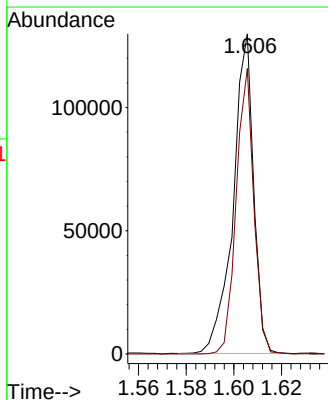
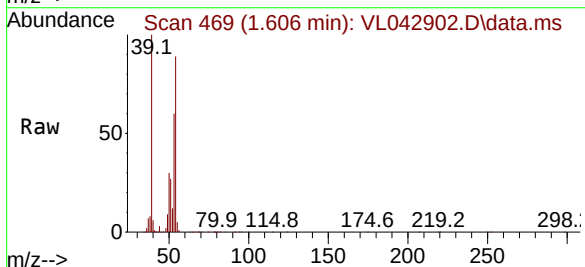
Manual Integrations
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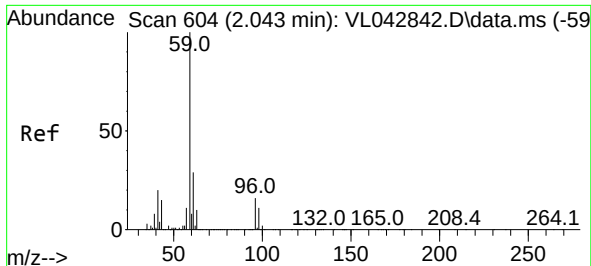
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#16
1,3-Butadiene
Concen: 9.250 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 39 Resp: 77632
Ion Ratio Lower Upper
39 100
54 76.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.020 ppbv

RT: 2.036 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

Tgt Ion: 59 Resp: 176050

Ion Ratio Lower Upper

59 100

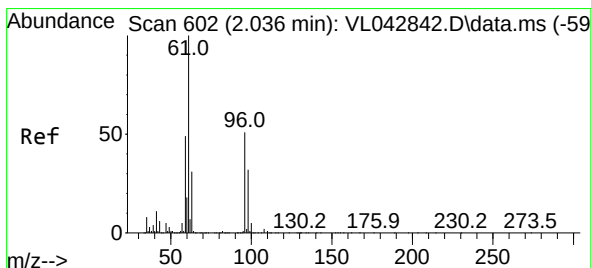
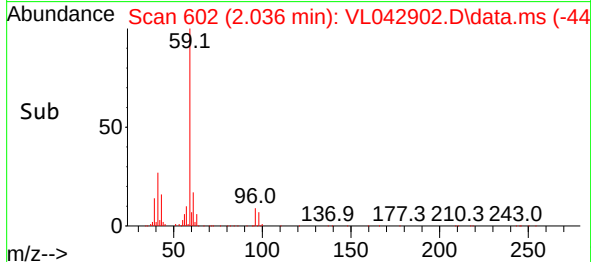
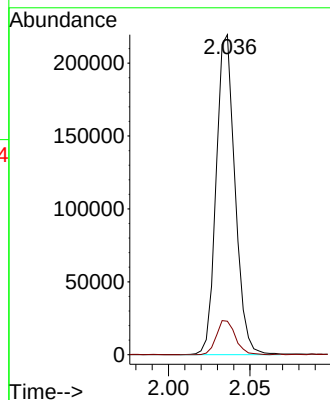
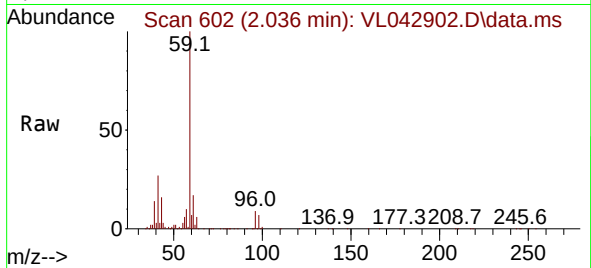
57 10.9 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#18

1,1-Dichloroethene

Concen: 9.707 ppbv

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

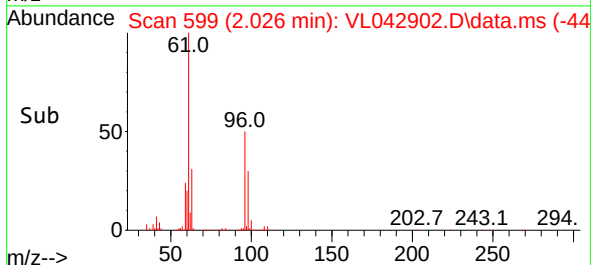
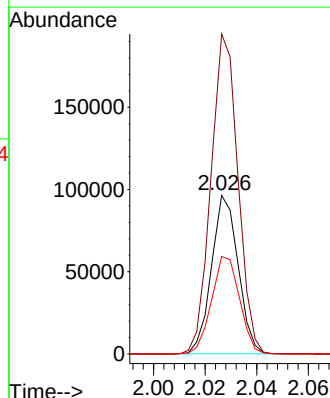
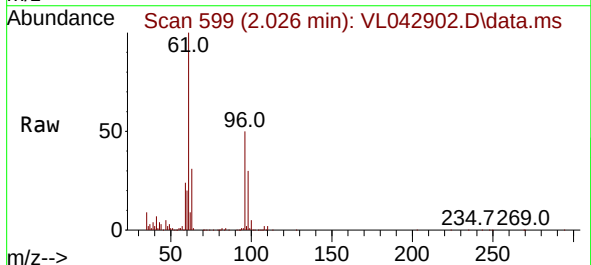
Tgt Ion: 96 Resp: 68830

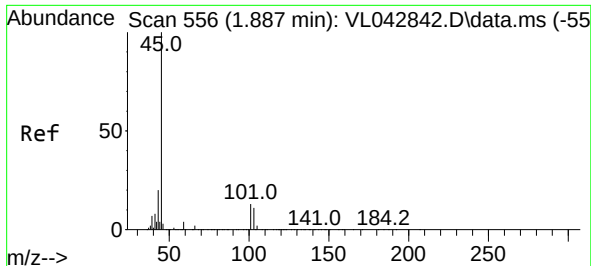
Ion Ratio Lower Upper

96 100

61 201.9 158.2 237.4

98 61.5 50.6 76.0





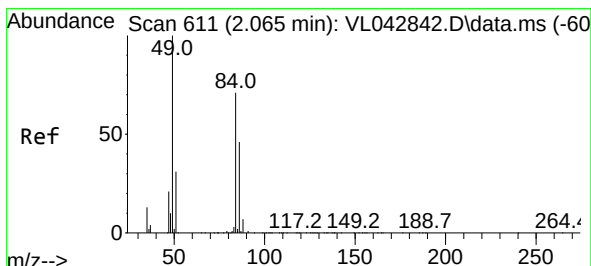
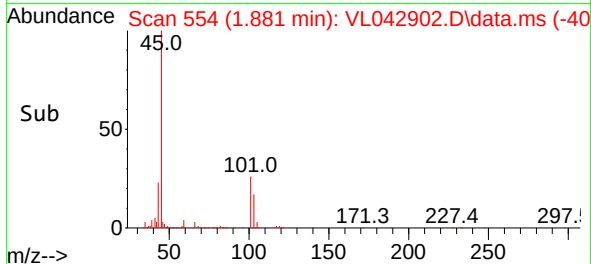
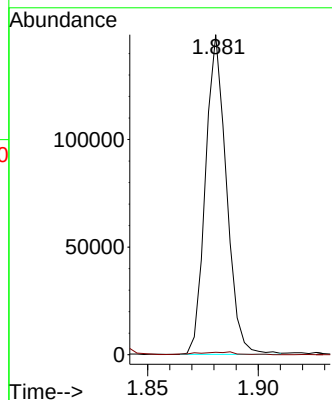
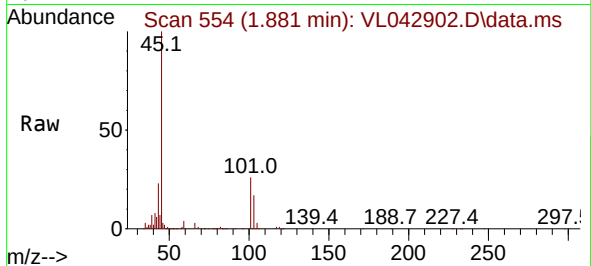
#19
Isopropyl Alcohol
Concen: 8.791 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 45 Resp: 97198
Ion Ratio Lower Upper
45 100
58 45.5 32.7 49.1

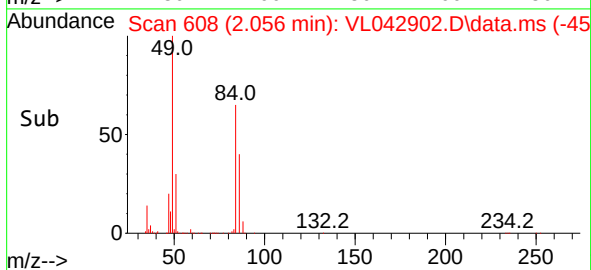
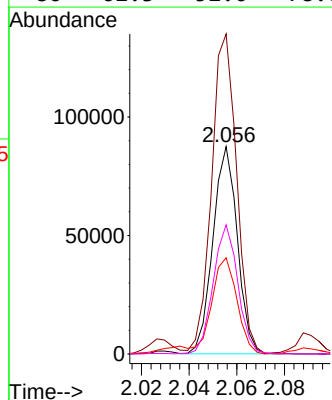
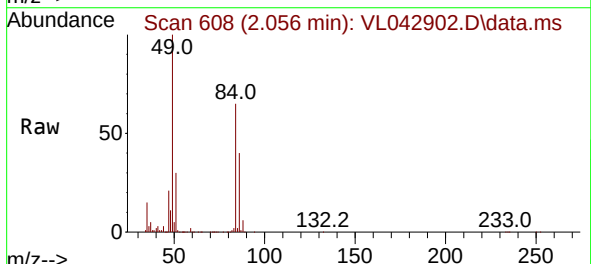
Manual Integrations
APPROVED

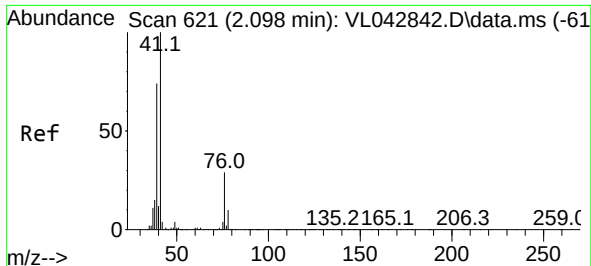
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 8.038 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

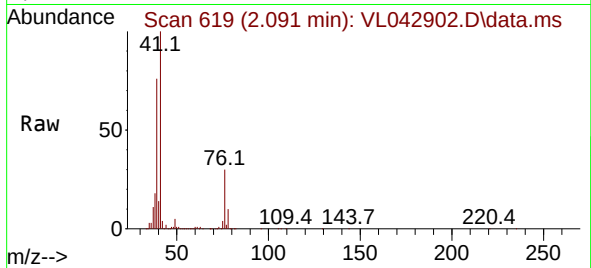
Tgt Ion: 84 Resp: 62334
Ion Ratio Lower Upper
84 100
49 153.6 112.3 168.5
51 46.1 36.0 54.0
86 62.3 52.0 78.0





#21
 Allyl Chloride
 Concen: 9.573 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

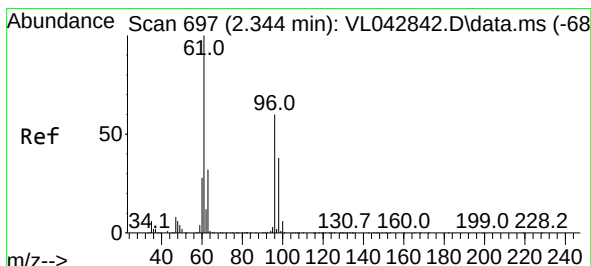
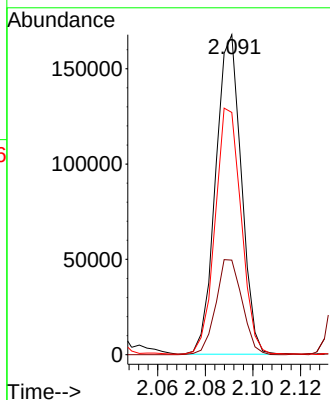
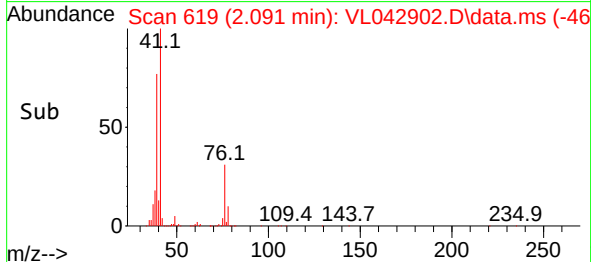
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



Tgt Ion: 41 Resp: 12519
 Ion Ratio Lower Upper
 41 100
 76 30.6 23.9 35.9
 39 78.4 57.8 86.6

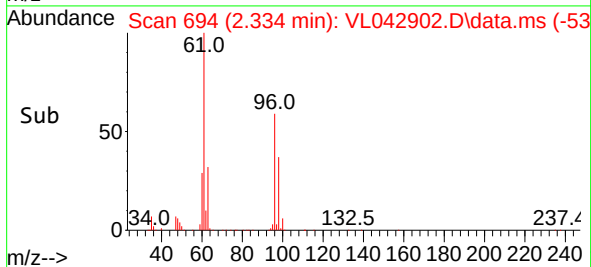
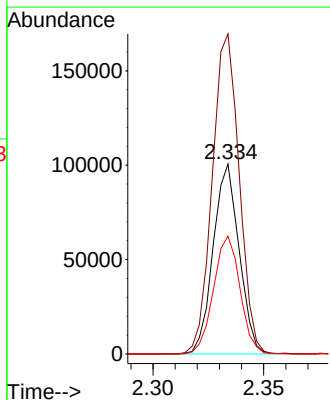
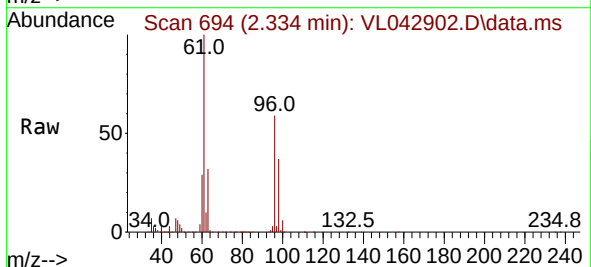
Manual Integrations
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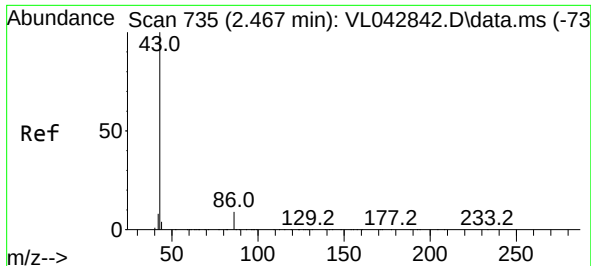
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#22
 trans-1,2-Dichloroethene
 Concen: 10.005 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 82077
 Ion Ratio Lower Upper
 96 100
 61 168.5 132.6 199.0
 98 62.0 50.0 75.0





#23
 Vinyl Acetate
 Concen: 10.634 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

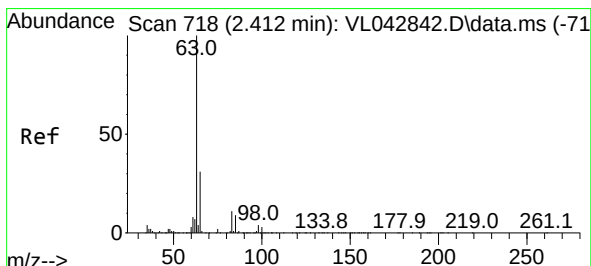
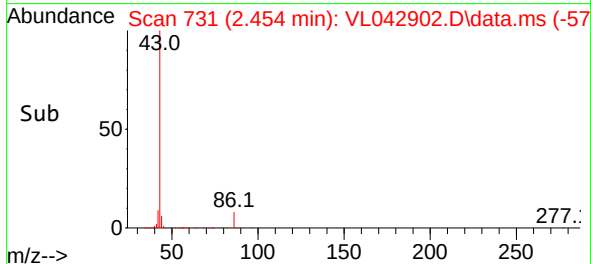
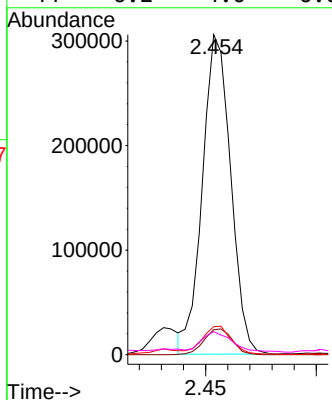
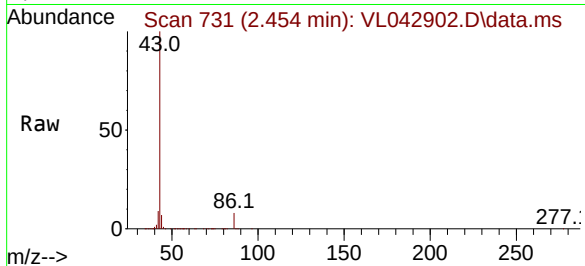
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Tgt Ion: 43 Resp: 270670

Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.6	9.8
42	8.6	7.0	10.6
44	6.2	4.0	6.0

Manual Integrations
 APPROVED

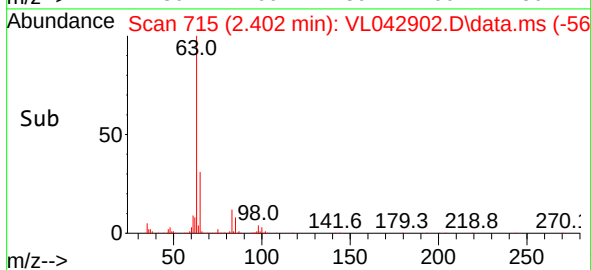
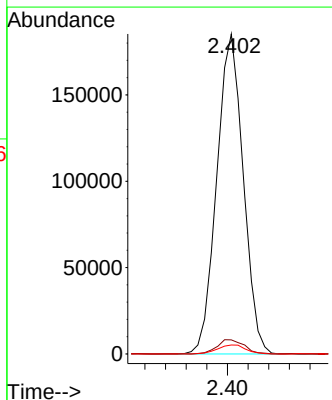
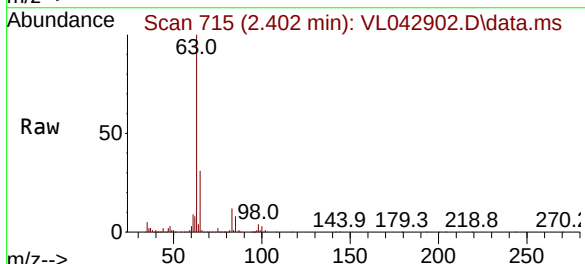
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

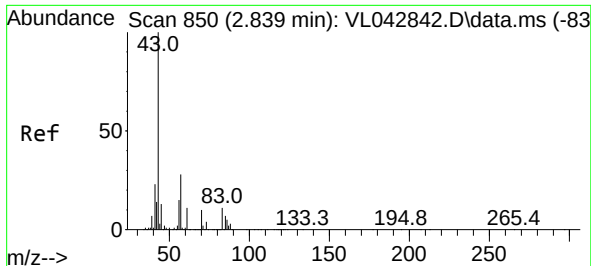


#24
 1,1-Dichloroethane
 Concen: 10.066 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 63 Resp: 164910

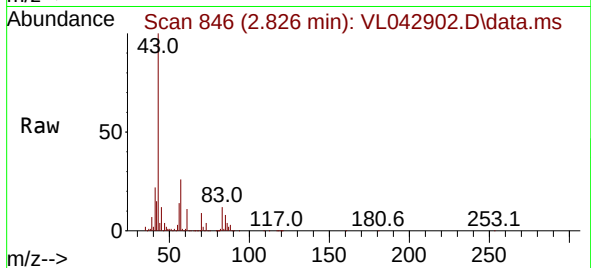
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.8	1.7	5.1





#25
Ethyl Acetate
Concen: 10.237 ppbv
RT: 2.826 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

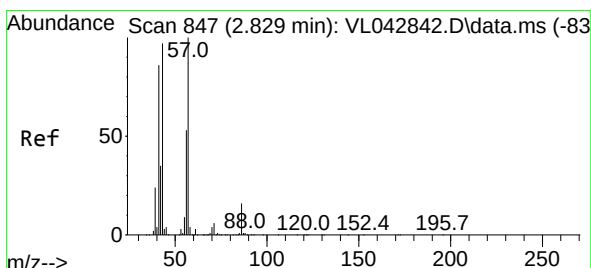
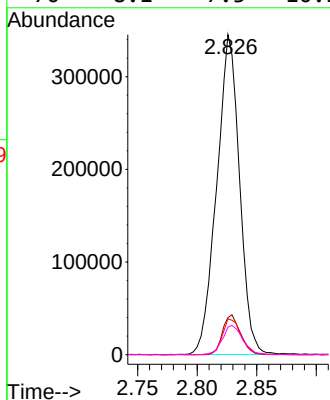
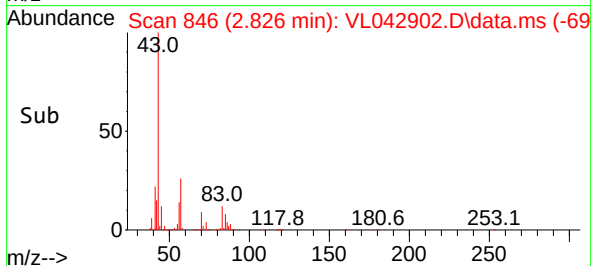
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion: 43 Resp: 458640
Ion Ratio Lower Upper
43 100
45 10.0 8.1 12.1
61 9.2 7.4 11.2
70 8.1 7.3 10.9

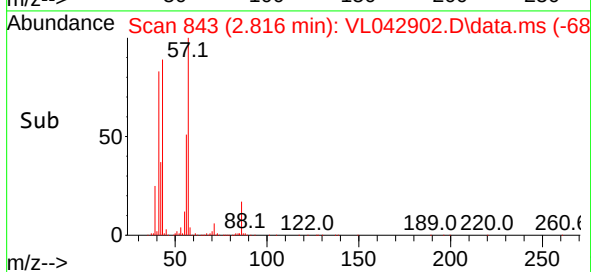
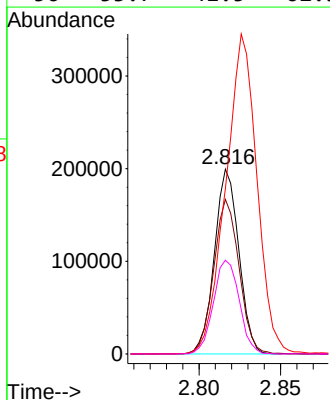
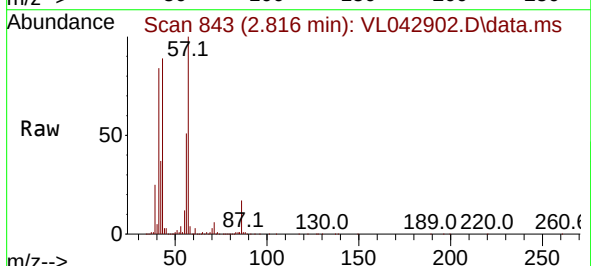
Manual Integrations
APPROVED

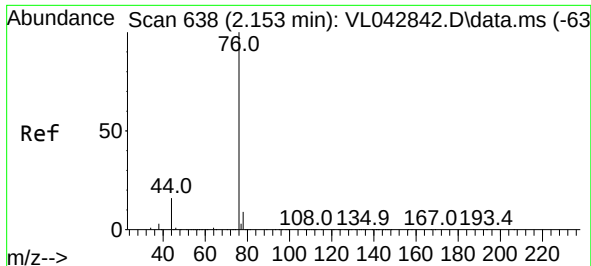
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#26
Hexane
Concen: 10.043 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

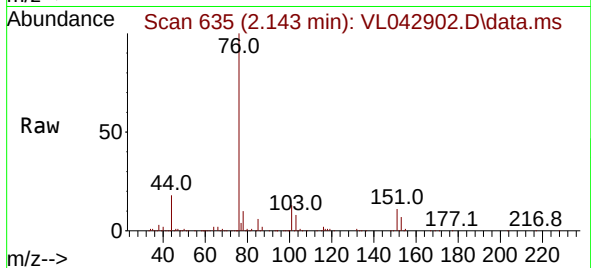
Tgt Ion: 57 Resp: 207705
Ion Ratio Lower Upper
57 100
41 87.5 68.6 103.0
43 221.9 168.5 252.7
56 53.7 41.5 62.3





#27
Carbon Disulfide
Concen: 10.273 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

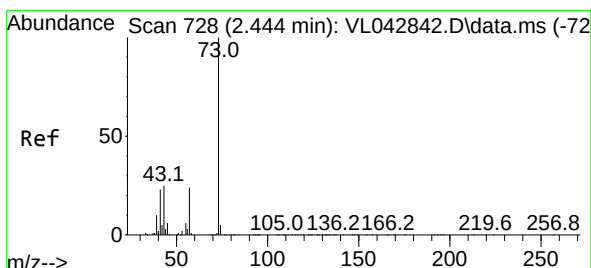
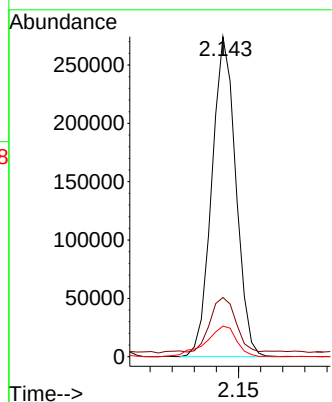
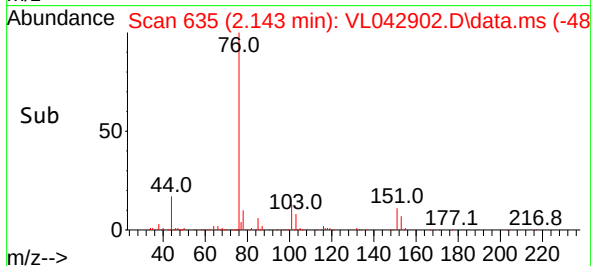
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion: 76 Resp: 20675
Ion Ratio Lower Upper
76 100
44 20.9 15.9 23.9
78 12.3 9.5 14.3

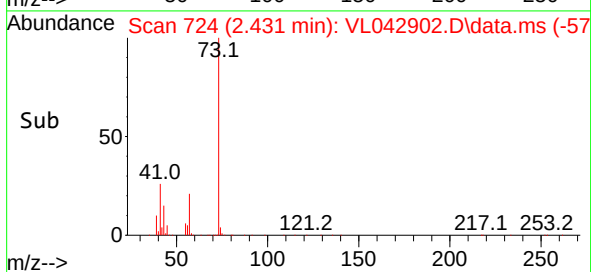
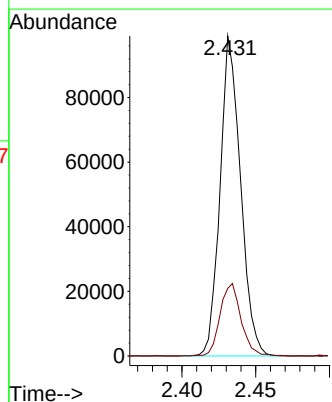
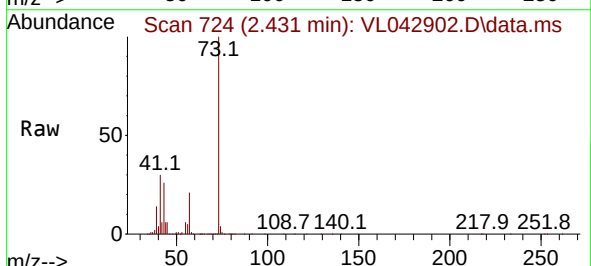
Manual Integrations
APPROVED

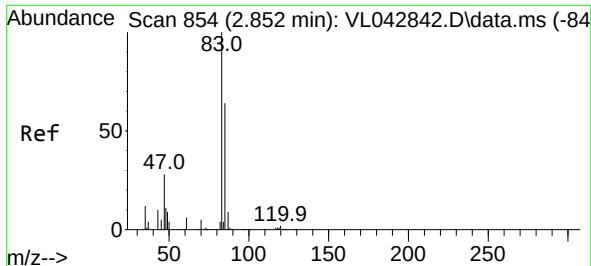
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#28
Methyl tert-Butyl Ether
Concen: 9.082 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 73 Resp: 95768
Ion Ratio Lower Upper
73 100
57 23.2 21.6 32.4





#29

Chloroform

Concen: 10.562 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

Tgt Ion: 83 Resp: 31185

Ion Ratio Lower Upper

83 100

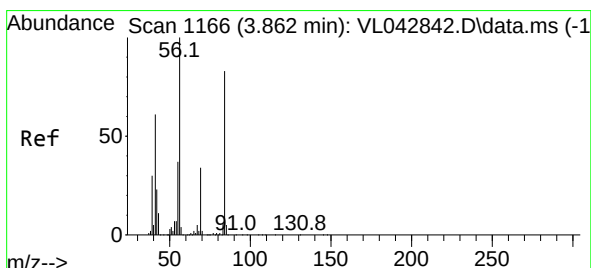
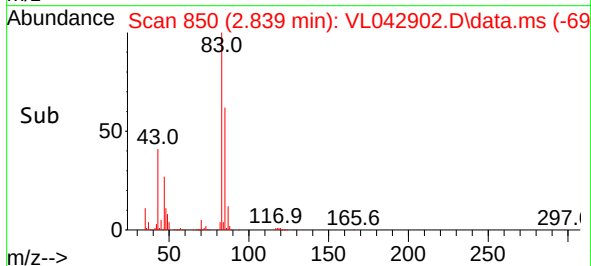
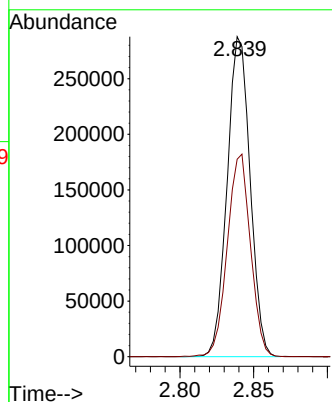
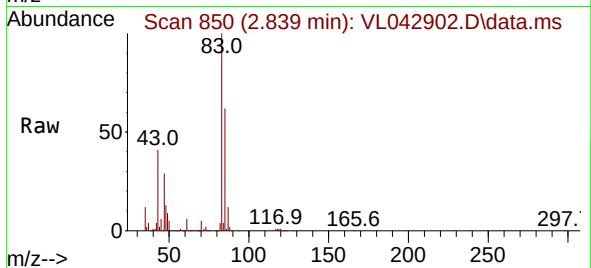
85 61.7 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#30

Cyclohexane

Concen: 9.340 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

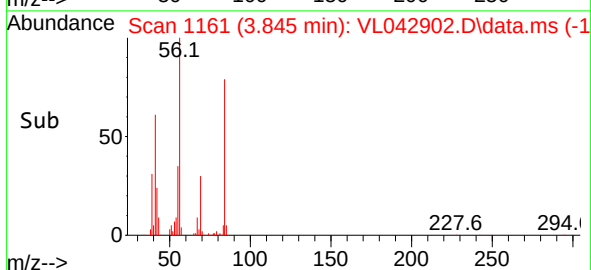
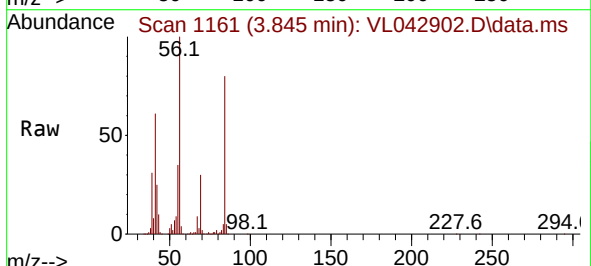
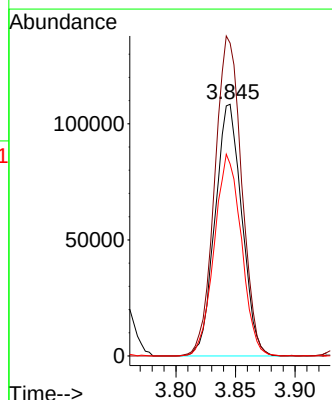
Tgt Ion: 84 Resp: 169353

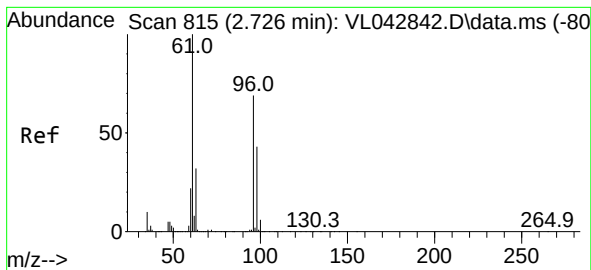
Ion Ratio Lower Upper

84 100

56 127.6 98.8 148.2

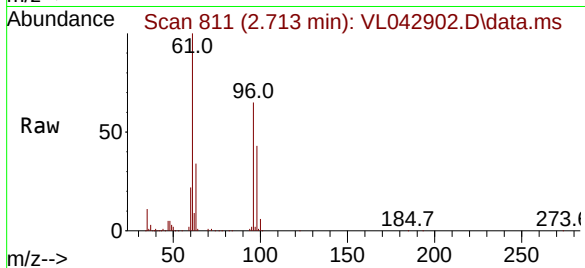
41 81.1 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 9.796 ppbv
 RT: 2.713 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

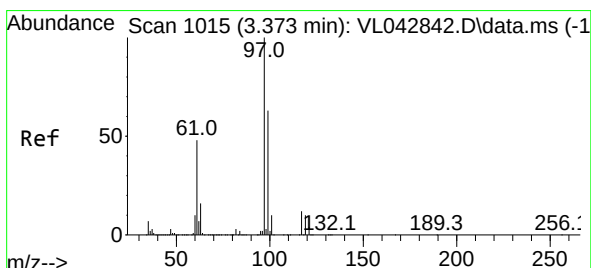
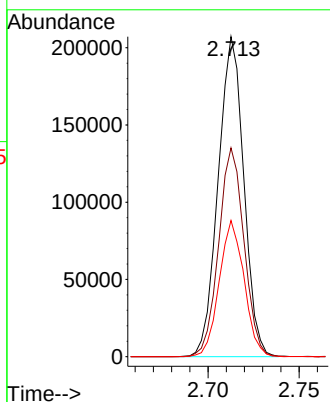
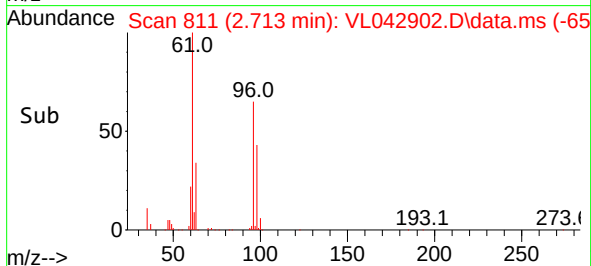
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



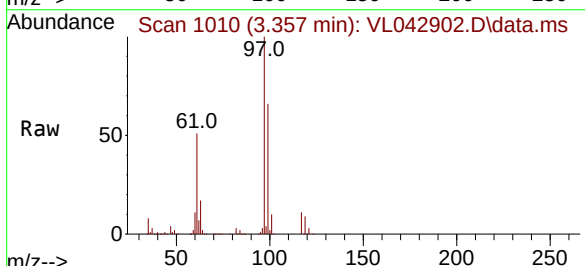
Tgt Ion: 61 Resp: 202349
 Ion Ratio Lower Upper
 61 100
 96 65.2 55.0 82.6
 98 42.5 34.3 51.5

Manual Integrations
 APPROVED

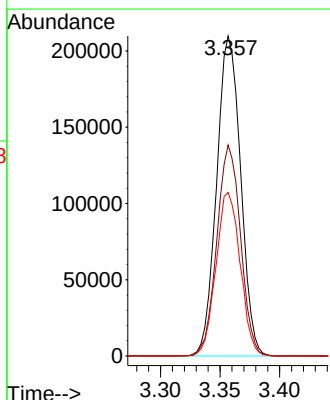
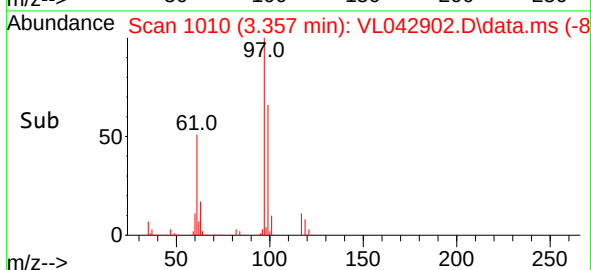
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

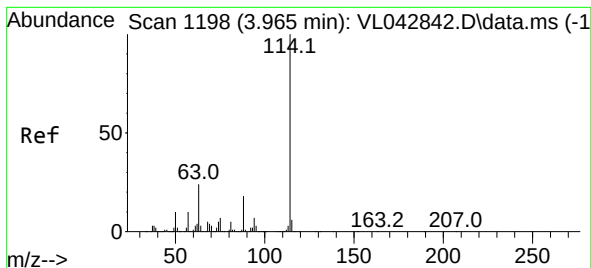


#32
 1,1,1-Trichloroethane
 Concen: 9.409 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



Tgt Ion: 97 Resp: 293618
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.6
 61 51.7 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

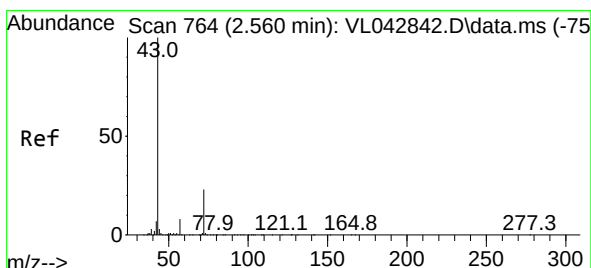
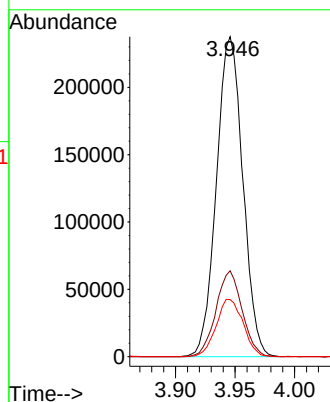
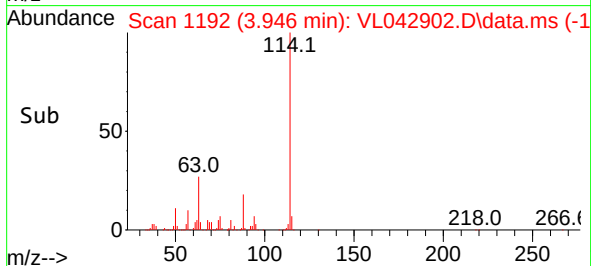
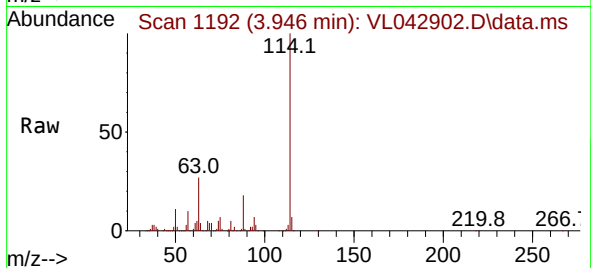
VL0908ABS01

Tgt Ion:	114	Resp:	36585
Ion Ratio	Lower	Upper	
114	100		
63	26.5	19.7	29.5
88	18.3	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 12.066 ppbv

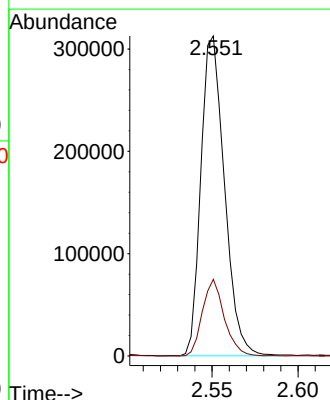
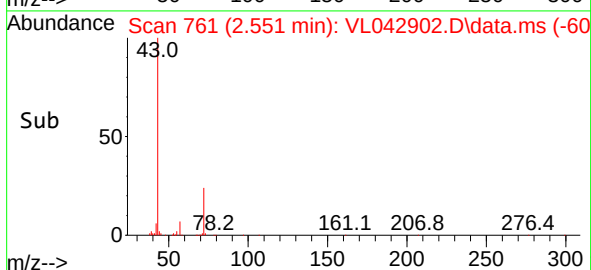
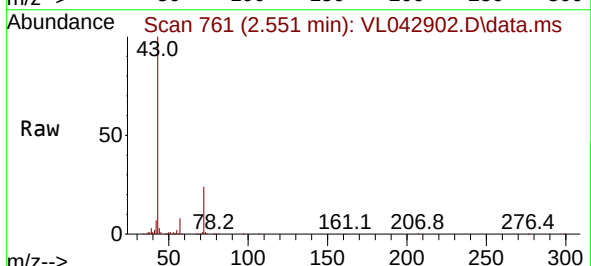
RT: 2.551 min Scan# 761

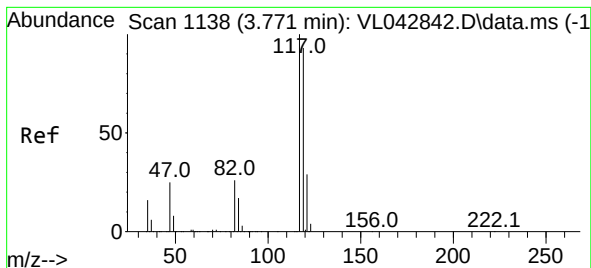
Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:	43	Resp:	298071
Ion Ratio	Lower	Upper	
43	100		
72	22.3	18.6	28.0





#35

Carbon Tetrachloride

Concen: 11.779 ppbv

RT: 3.748 min Scan# 1138

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

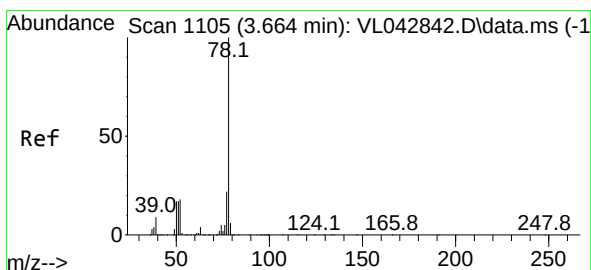
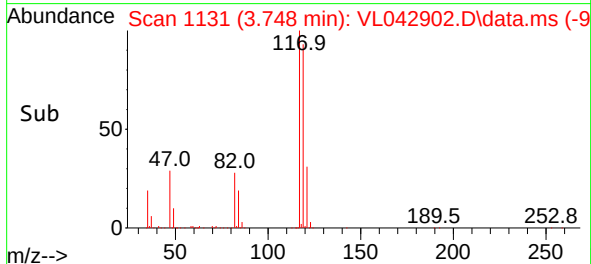
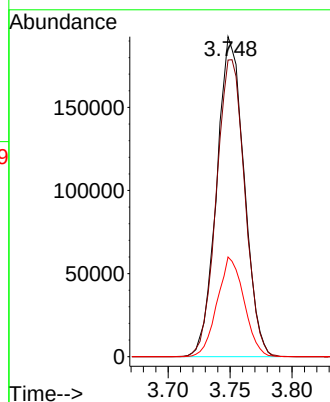
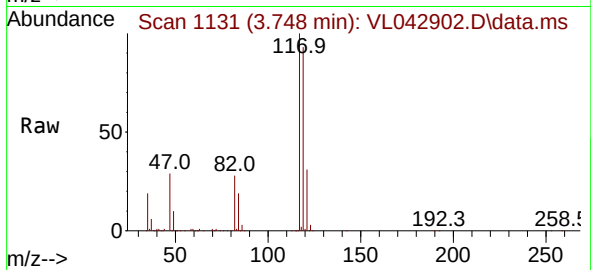
VL0908ABS01

Tgt Ion: 117	Resp: 297085
Ion Ratio	Lower Upper
117 100	
119 92.6	74.7 112.1
121 31.2	23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#36

Benzene

Concen: 11.625 ppbv

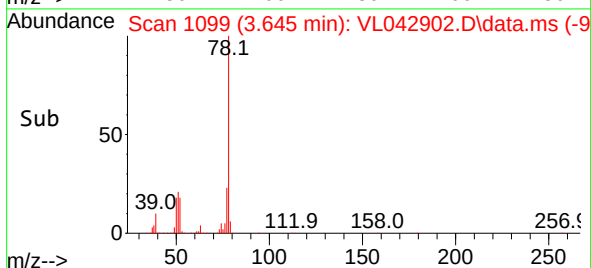
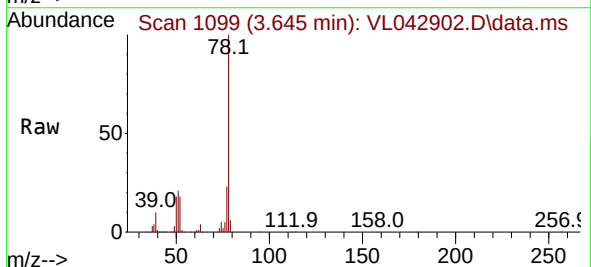
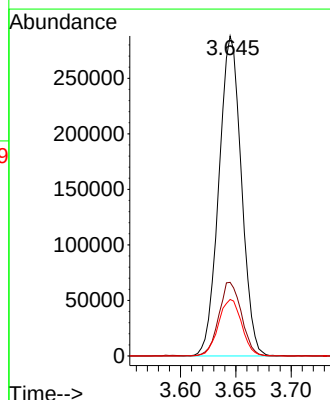
RT: 3.645 min Scan# 1099

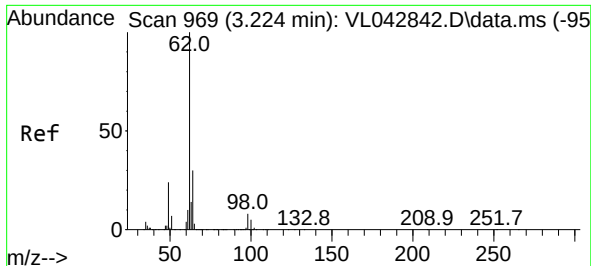
Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion: 78	Resp: 407263
Ion Ratio	Lower Upper
78 100	
77 23.0	17.7 26.5
50 17.7	13.9 20.9





#37

1,2-Dichloroethane

Concen: 12.720 ppbv

RT: 3.208 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

Tgt Ion: 62 Resp: 232809

Ion Ratio Lower Upper

62 100

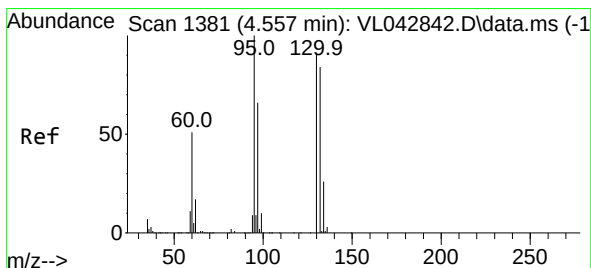
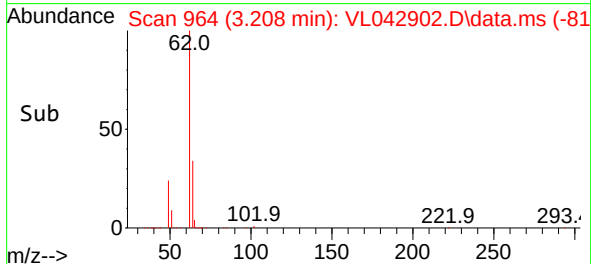
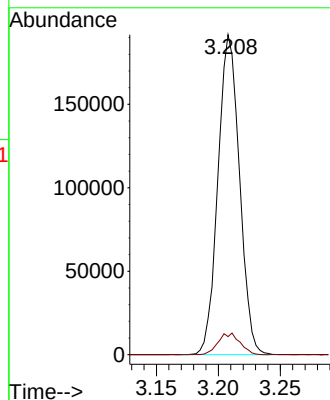
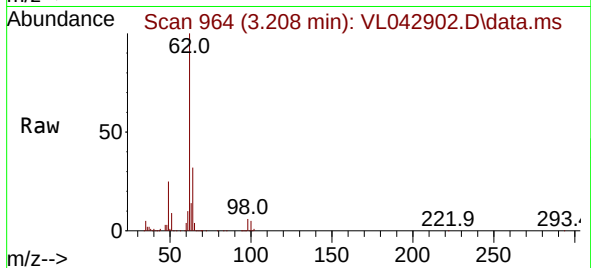
98 6.9 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#38

Trichloroethene

Concen: 10.408 ppbv

RT: 4.532 min Scan# 1373

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:130 Resp: 166529

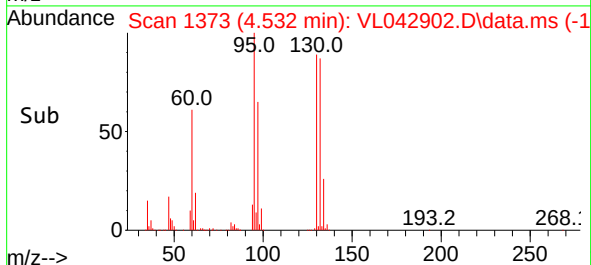
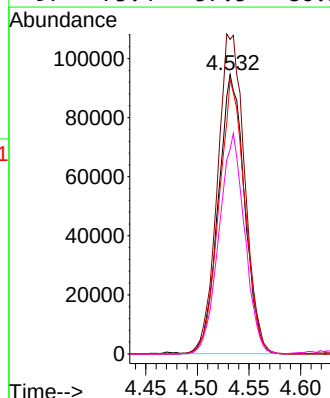
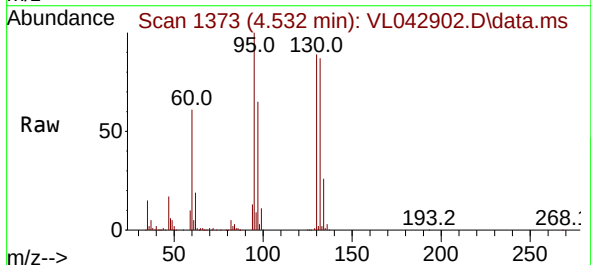
Ion Ratio Lower Upper

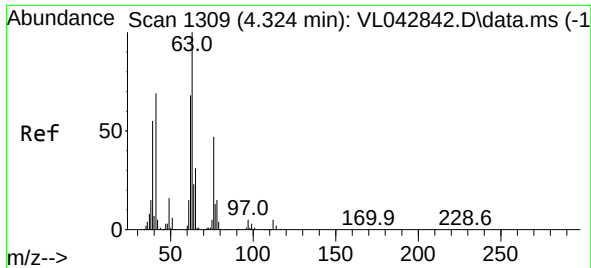
130 100

95 112.8 87.6 131.4

132 98.3 73.8 110.8

97 73.4 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.961 ppbv

RT: 4.302 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

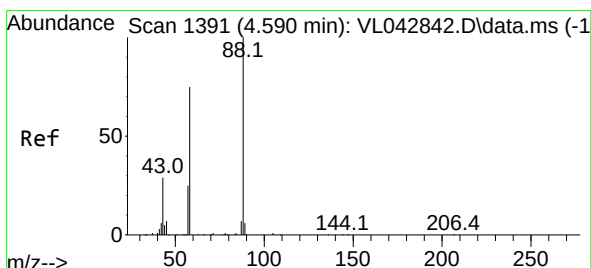
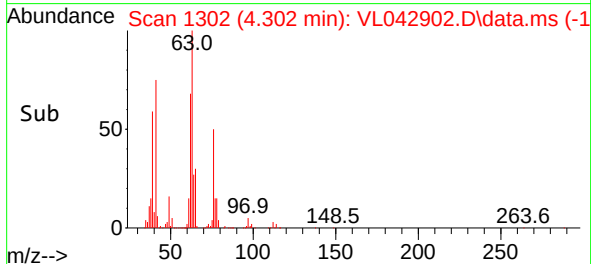
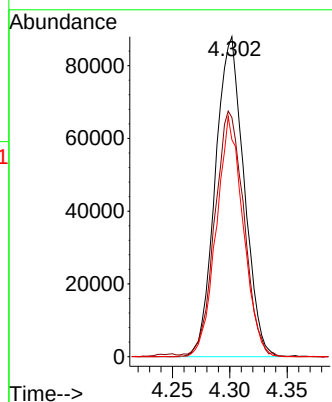
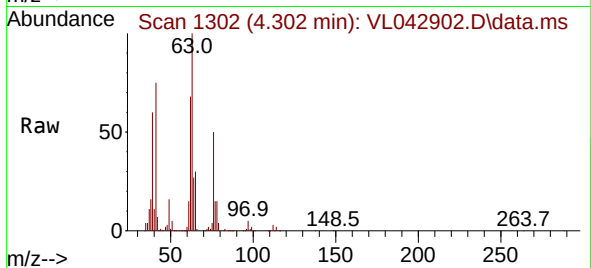
VL0908ABS01

Tgt Ion: 63	Resp: 15304
Ion Ratio	Lower Upper
63	100
41	74.6 55.0 82.4
62	67.7 54.4 81.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#40

1,4-Dioxane

Concen: 10.138 ppbv

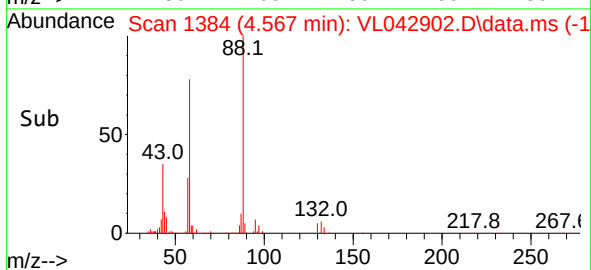
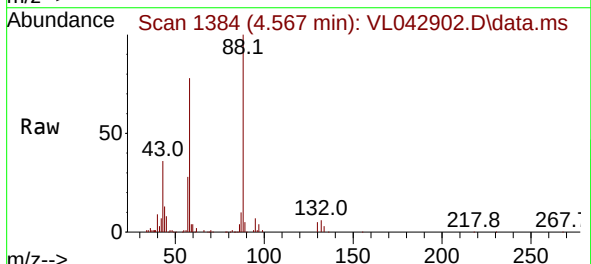
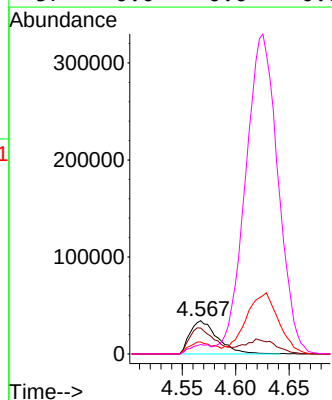
RT: 4.567 min Scan# 1384

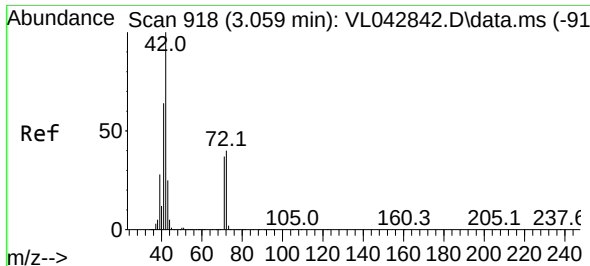
Delta R.T. 0.006 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

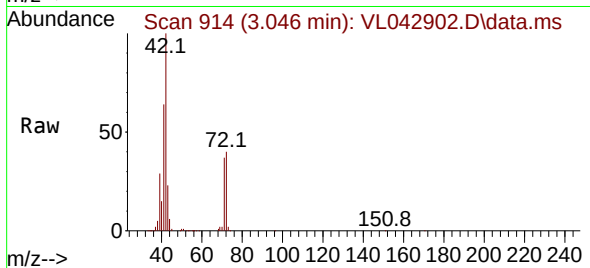
Tgt Ion: 88	Resp: 61682
Ion Ratio	Lower Upper
88	100
58	75.9 53.8 80.6
43	36.0 22.8 34.2#
57	0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 11.927 ppbv
RT: 3.046 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

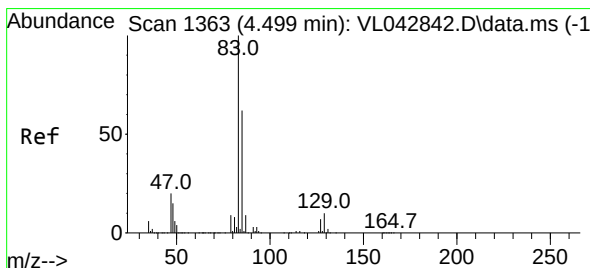
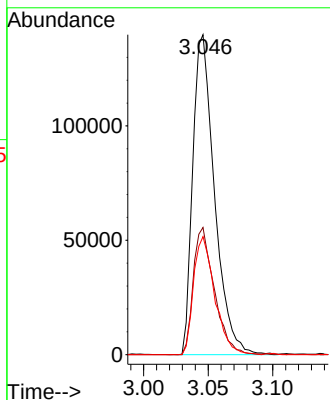
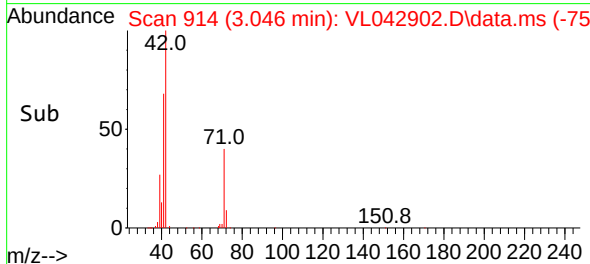
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion: 42 Resp: 164268
Ion Ratio Lower Upper
42 100
72 38.6 32.6 48.8
71 36.0 30.0 45.0

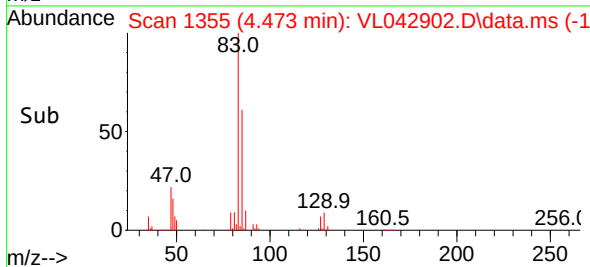
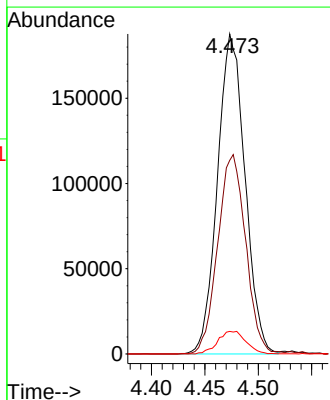
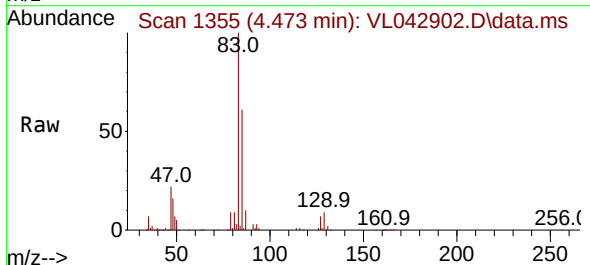
Manual Integrations
APPROVED

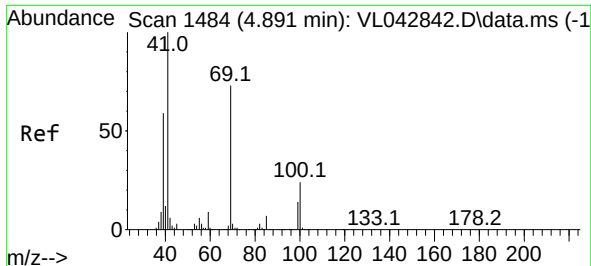
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#42
Bromodichloromethane
Concen: 12.351 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

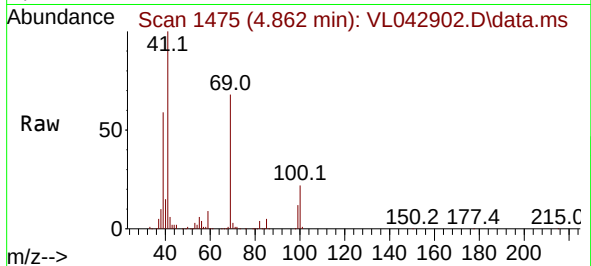
Tgt Ion: 83 Resp: 336858
Ion Ratio Lower Upper
83 100
85 60.5 49.8 74.8
127 7.0 5.8 8.6





#43
Methyl Methacrylate
Concen: 10.979 ppbv
RT: 4.862 min Scan# 1484
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

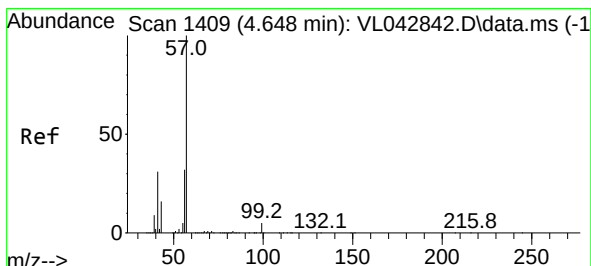
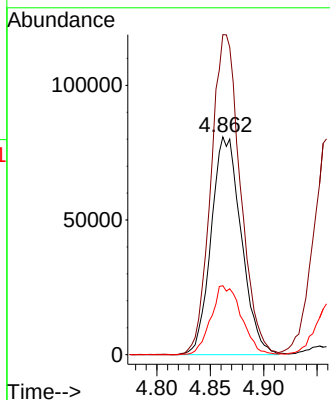
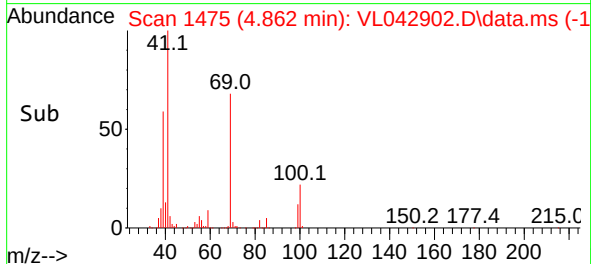
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



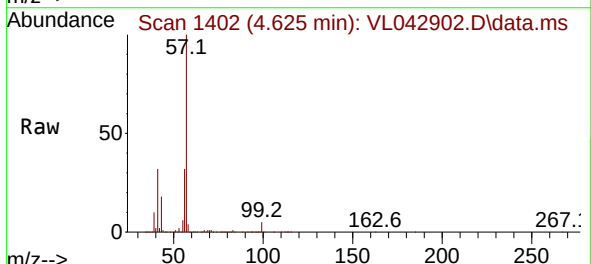
Tgt Ion: 69 Resp: 15845
Ion Ratio Lower Upper
69 100
41 143.9 114.6 172.0
100 32.1 30.2 45.4

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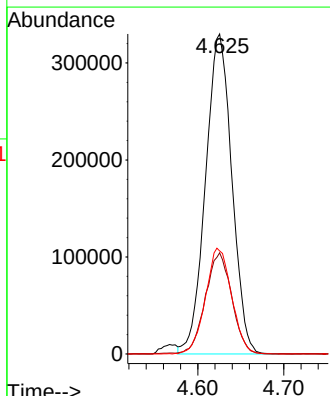
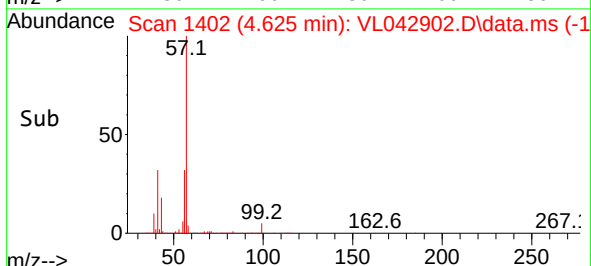
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

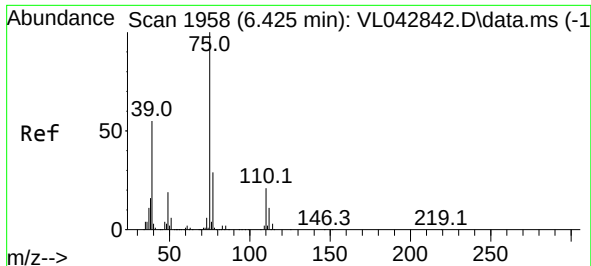


#44
2,2,4-Trimethylpentane
Concen: 11.797 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



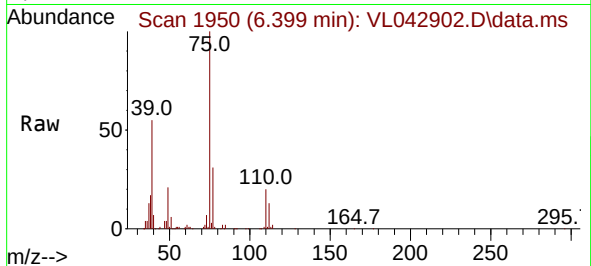
Tgt Ion: 57 Resp: 701486
Ion Ratio Lower Upper
57 100
41 31.8 24.8 37.2
56 32.7 25.5 38.3





#45
 t-1,3-Dichloropropene
 Concen: 10.403 ppbv
 RT: 6.399 min Scan# 16943
 Delta R.T. 0.006 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

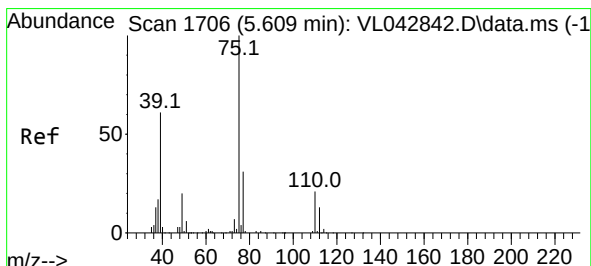
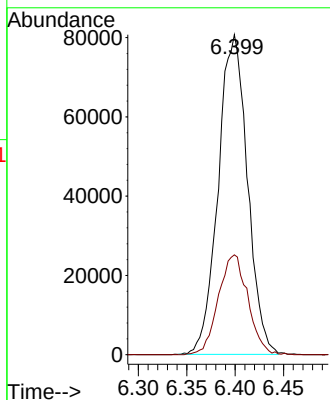
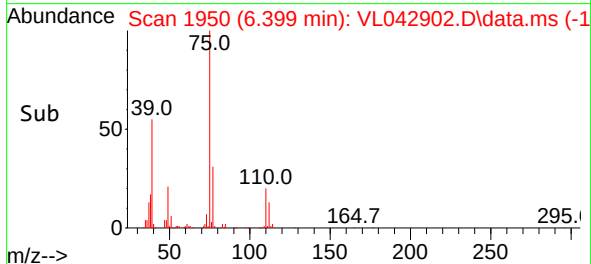
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



Tgt Ion: 75 Resp: 16943
 Ion Ratio Lower Upper
 75 100
 77 31.2 23.8 35.6

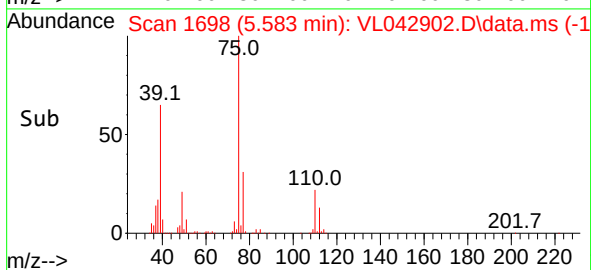
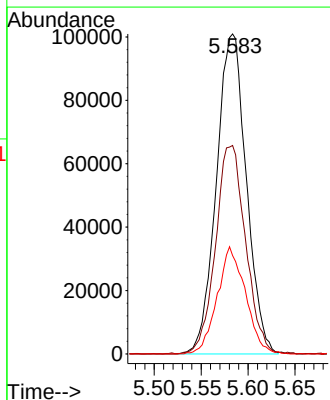
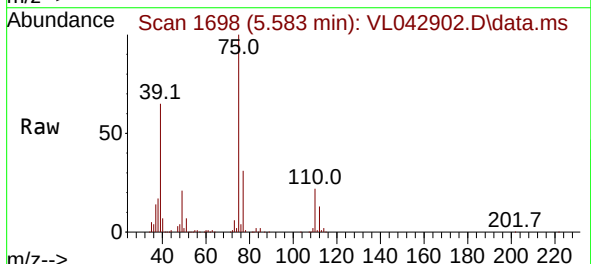
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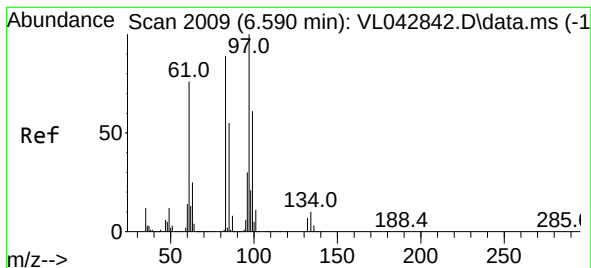
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.031 ppbv
 RT: 5.583 min Scan# 1698
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 75 Resp: 223871
 Ion Ratio Lower Upper
 75 100
 39 65.0 48.9 73.3
 77 30.8 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 11.541 ppbv

RT: 6.564 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

Tgt Ion: 97 Resp: 156460

Ion Ratio Lower Upper

97 100

83 95.5 71.0 106.4

85 55.6 43.6 65.4

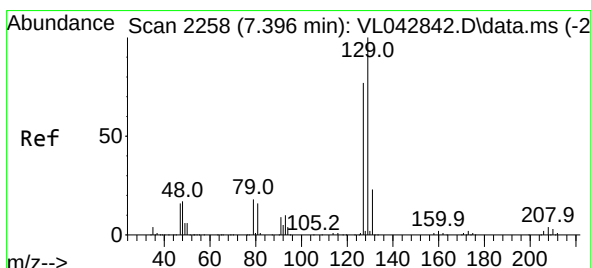
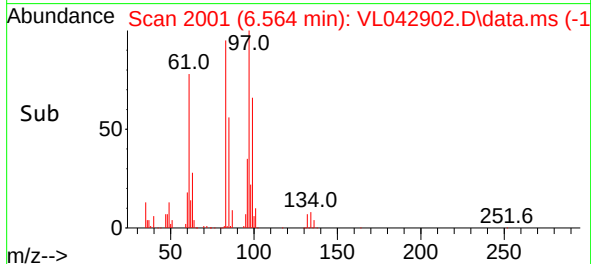
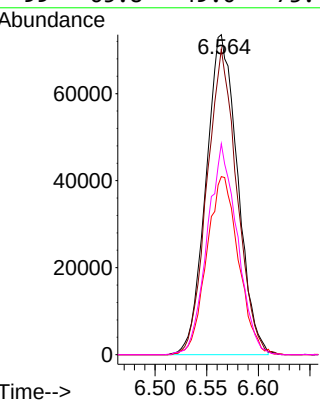
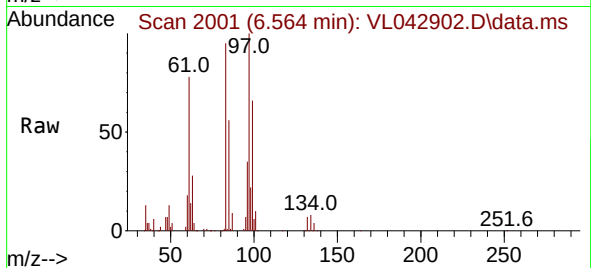
99 65.8 49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#48

Dibromochloromethane

Concen: 11.712 ppbv

RT: 7.373 min Scan# 2251

Delta R.T. 0.003 min

Lab File: VL042902.D

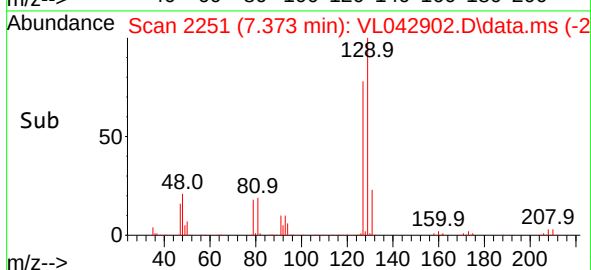
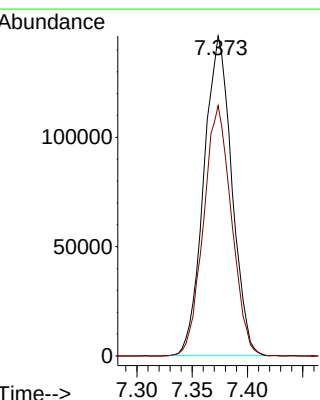
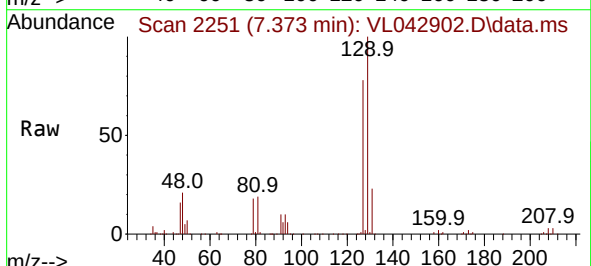
Acq: 08 Sep 2025 13:35

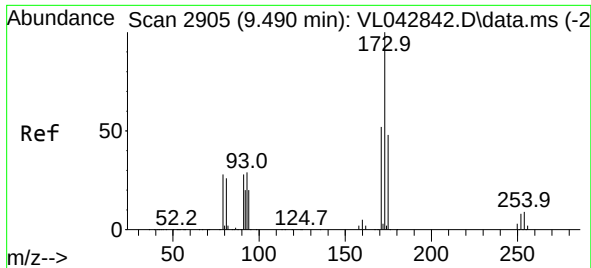
Tgt Ion:129 Resp: 256923

Ion Ratio Lower Upper

129 100

127 78.3 39.4 118.2





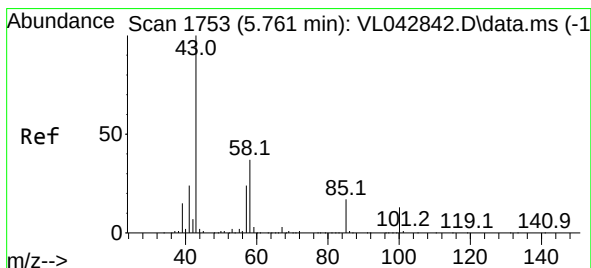
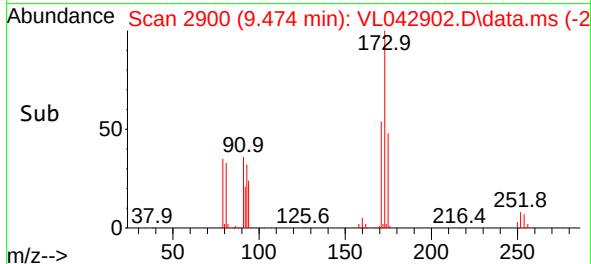
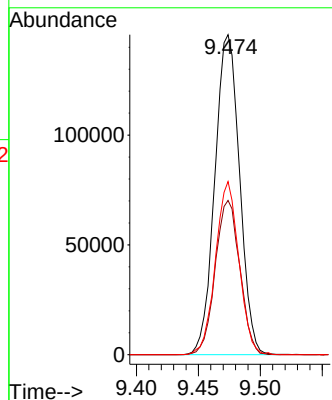
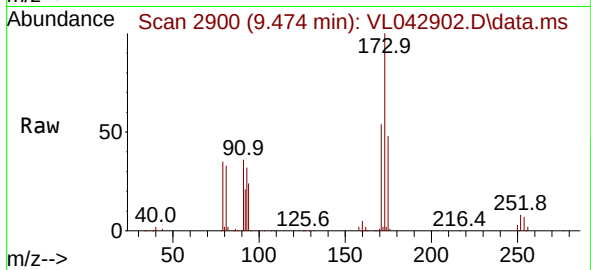
#49
Bromoform
Concen: 11.222 ppbv
RT: 9.474 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:173 Resp: 203018
Ion Ratio Lower Upper
173 100
175 47.9 39.2 58.8
171 51.1 41.3 61.9

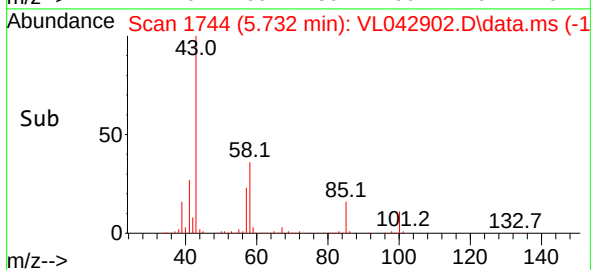
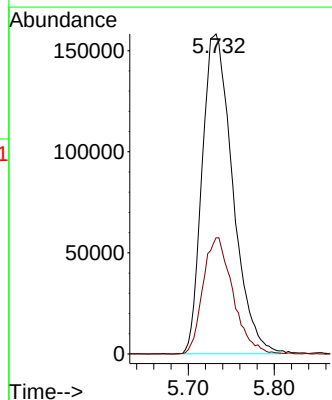
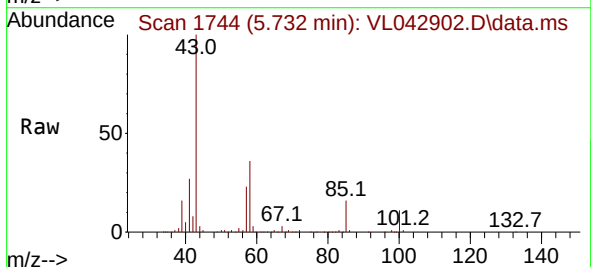
Manual Integrations
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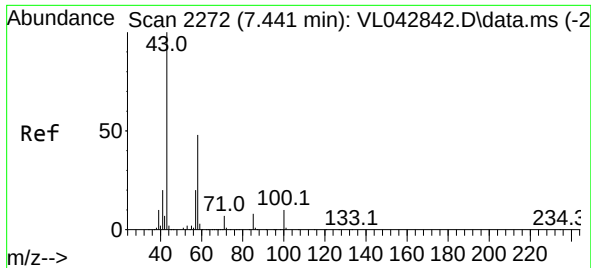
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#50
4-Methyl-2-Pentanone
Concen: 11.688 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

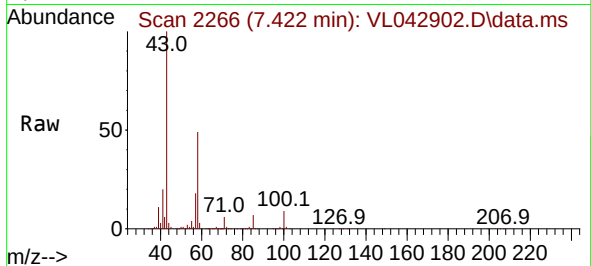
Tgt Ion: 43 Resp: 390291
Ion Ratio Lower Upper
43 100
58 35.7 29.8 44.8





#51
2-Hexanone
Concen: 11.858 ppbv
RT: 7.422 min Scan# 21158
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

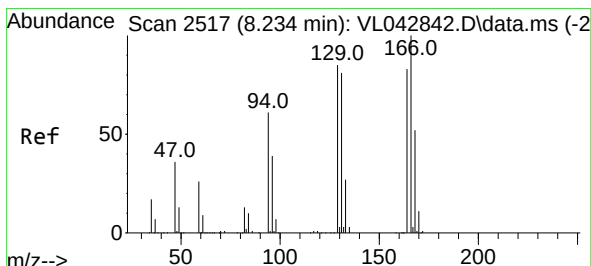
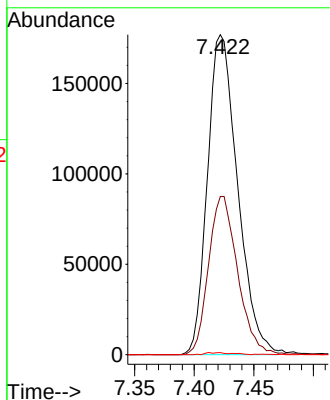
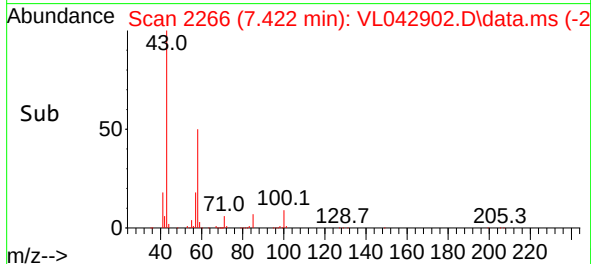
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion: 43 Resp: 31158
Ion Ratio Lower Upper
43 100
58 47.8 41.0 61.6
98 0.6 0.1 0.1

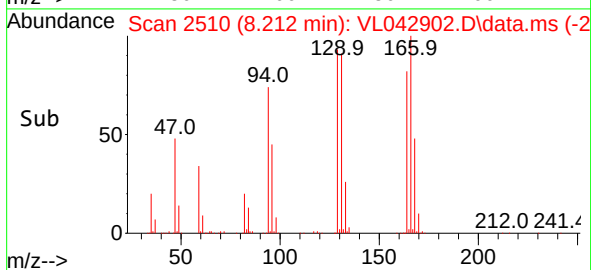
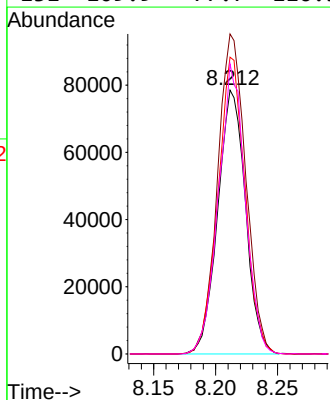
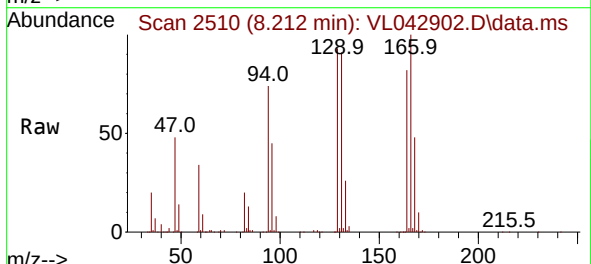
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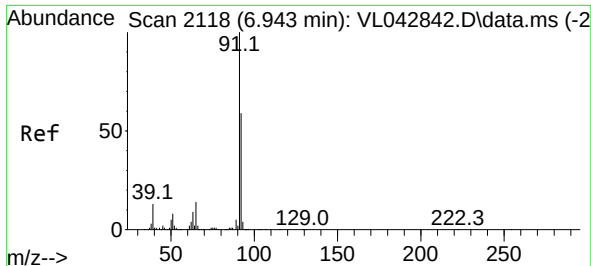
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#52
Tetrachloroethene
Concen: 9.644 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:164 Resp: 122229
Ion Ratio Lower Upper
164 100
166 121.3 96.5 144.7
129 112.5 81.8 122.6
131 109.9 77.7 116.5





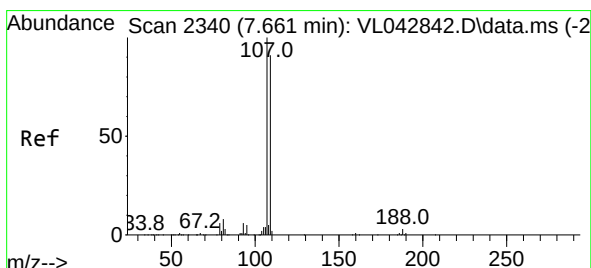
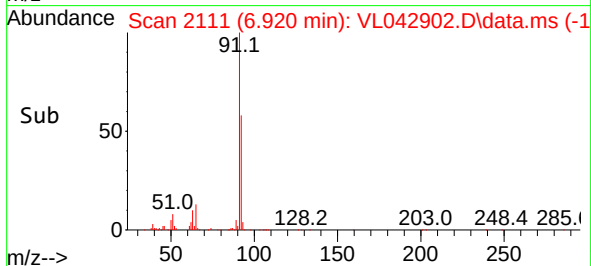
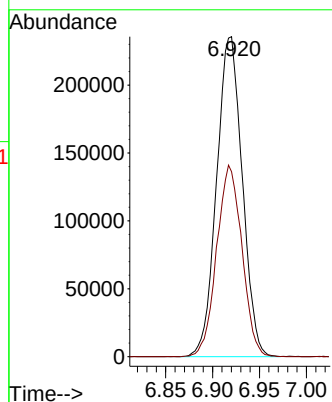
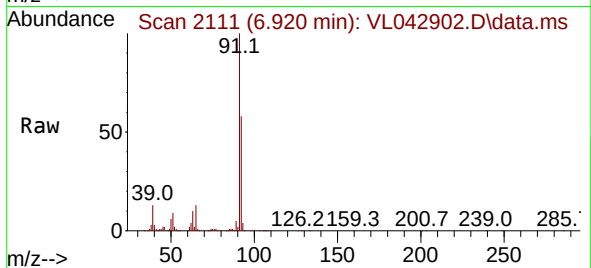
#53
Toluene
Concen: 10.752 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 447844
Ion Ratio Lower Upper
91 100
92 58.9 47.8 71.6

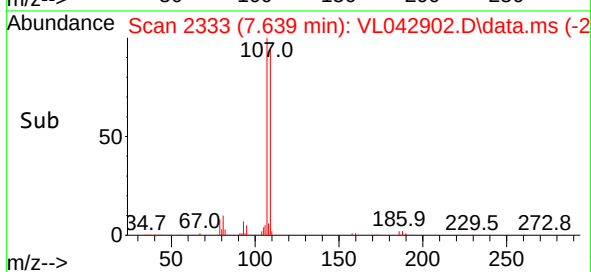
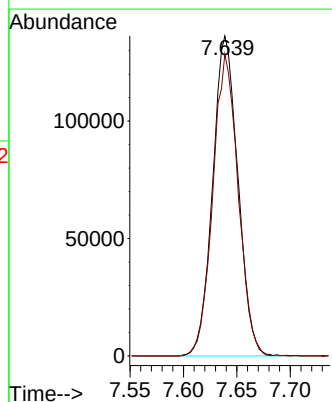
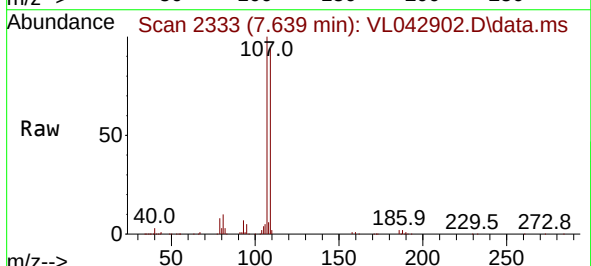
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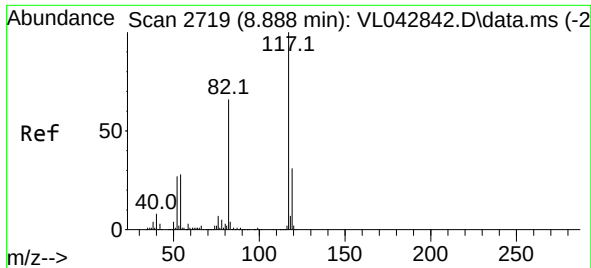
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#54
1,2-Dibromoethane
Concen: 11.277 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:107 Resp: 223417
Ion Ratio Lower Upper
107 100
109 94.3 72.5 108.7





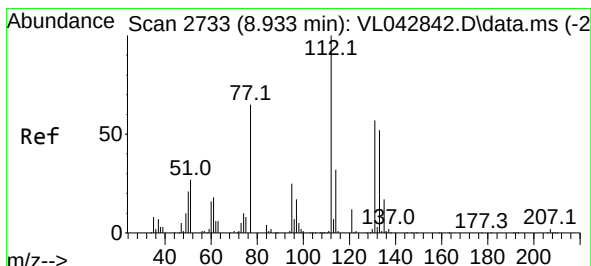
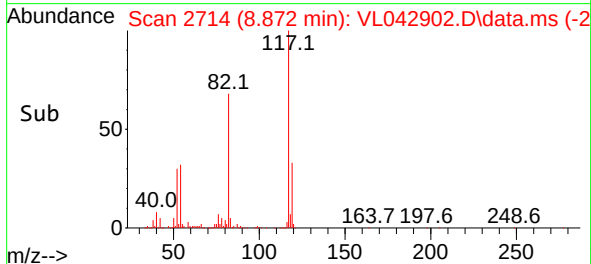
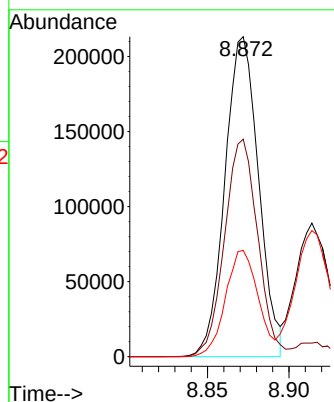
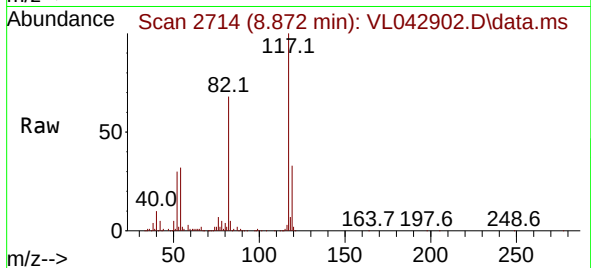
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:117 Resp: 30638
Ion Ratio Lower Upper
117 100
82 71.5 54.6 81.8
119 32.3 25.9 38.9

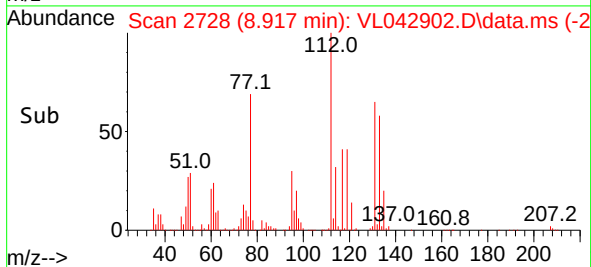
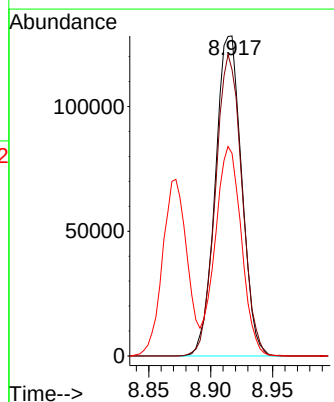
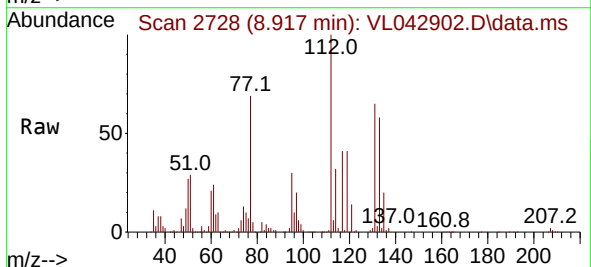
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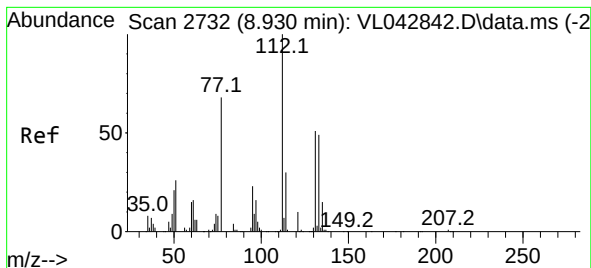
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 12.050 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:131 Resp: 190922
Ion Ratio Lower Upper
131 100
133 94.5 77.4 116.0
119 64.9 51.2 76.8





#57

Chlorobenzene

Concen: 11.855 ppbv

RT: 8.911 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

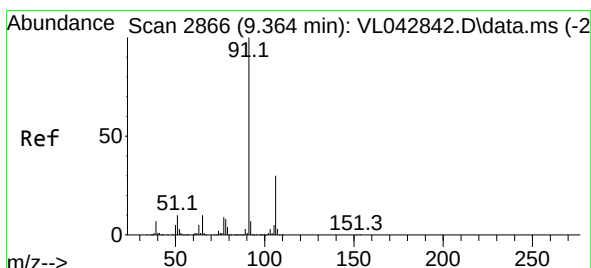
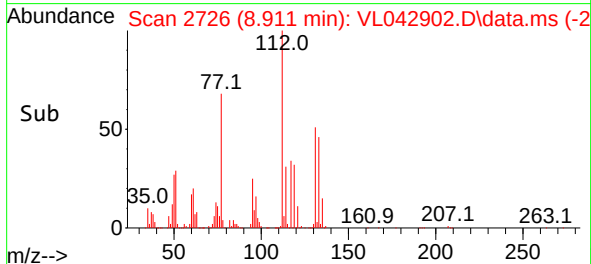
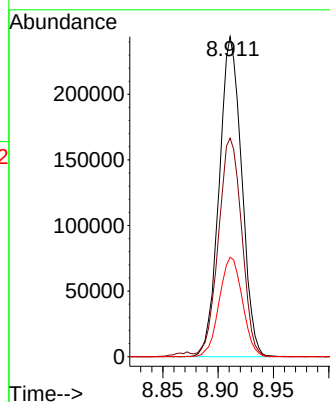
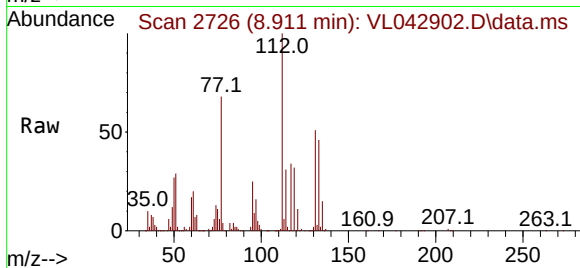
VL0908ABS01

Tgt Ion:	112	Resp:	34534
Ion Ratio	Lower	Upper	
112	100		
77	68.3	55.5	83.3
114	31.0	27.2	33.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#58

Ethyl Benzene

Concen: 11.442 ppbv

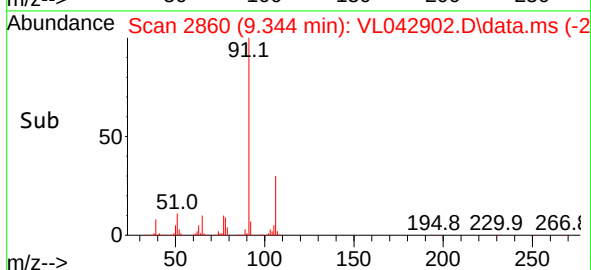
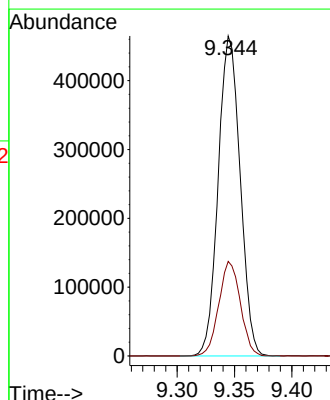
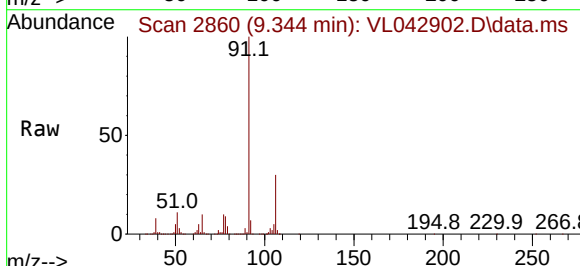
RT: 9.344 min Scan# 2860

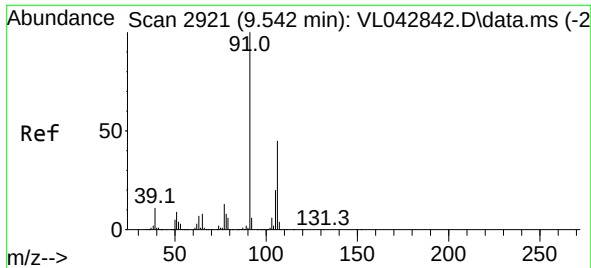
Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:	91	Resp:	618650
Ion Ratio	Lower	Upper	
91	100		
106	29.6	23.9	35.9





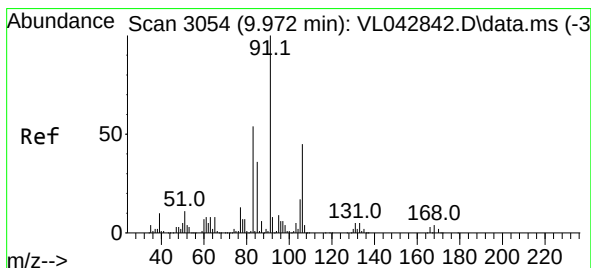
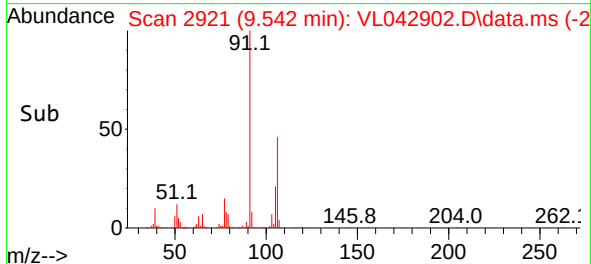
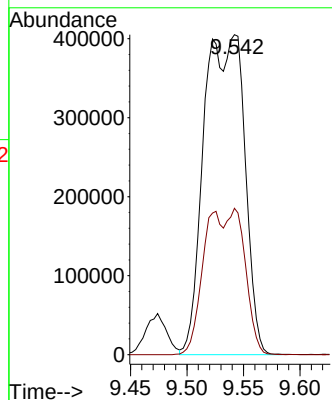
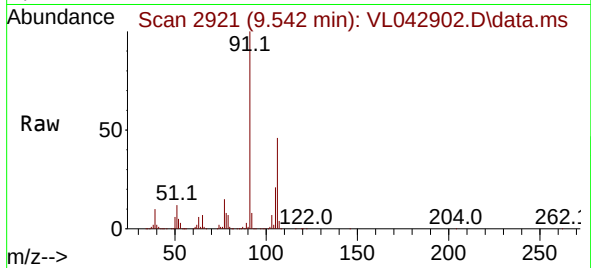
#59
m/p-Xylene
Concen: 23.968 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 1015739
Ion Ratio Lower Upper
91 100
106 45.2 0.0 0.0

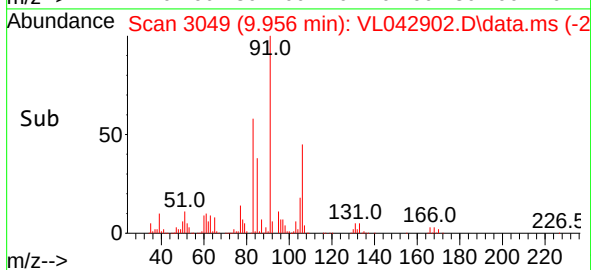
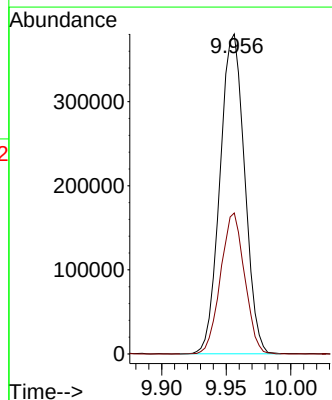
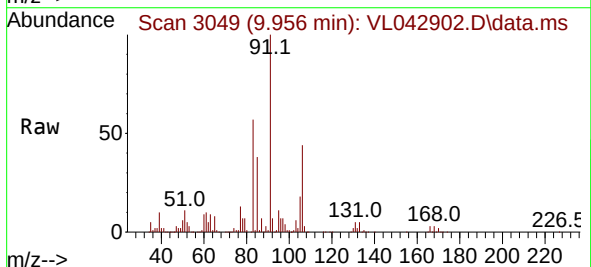
Manual Integrations
APPROVED

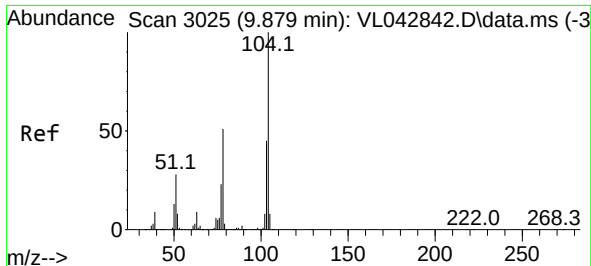
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#60
o-Xylene
Concen: 11.844 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 504922
Ion Ratio Lower Upper
91 100
106 43.0 21.8 65.4





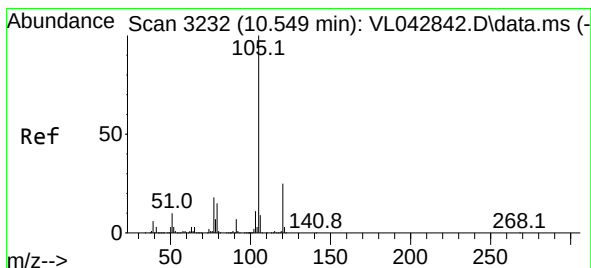
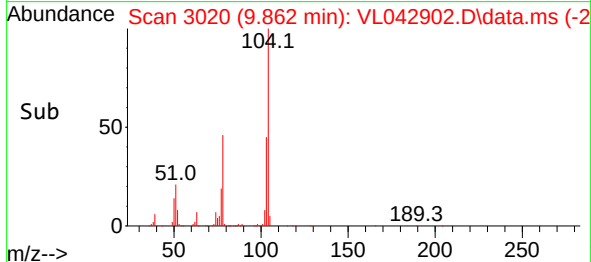
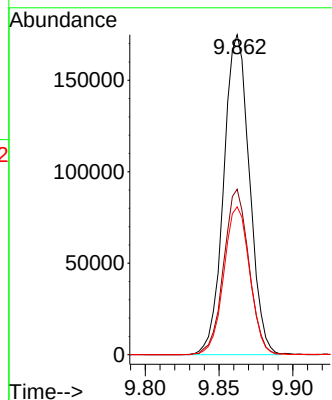
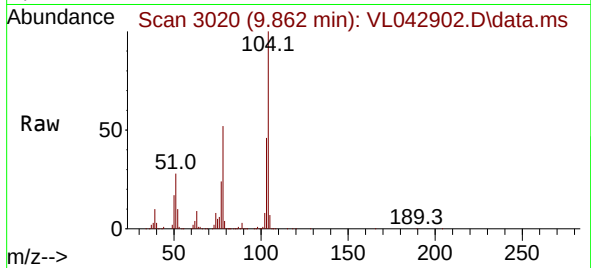
#61
Styrene
Concen: 10.644 ppbv
RT: 9.862 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:104 Resp: 212594
Ion Ratio Lower Upper
104 100
78 50.7 40.6 61.0
103 46.6 37.7 56.5

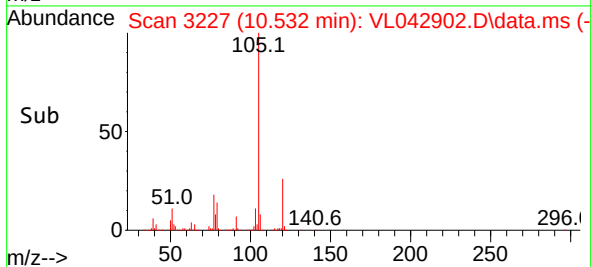
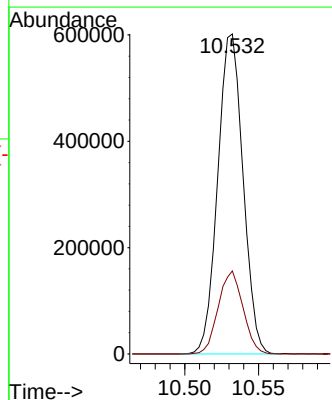
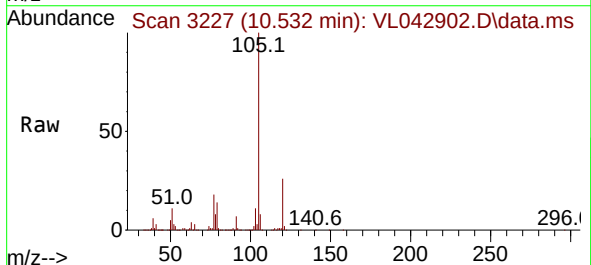
Manual Integrations
APPROVED

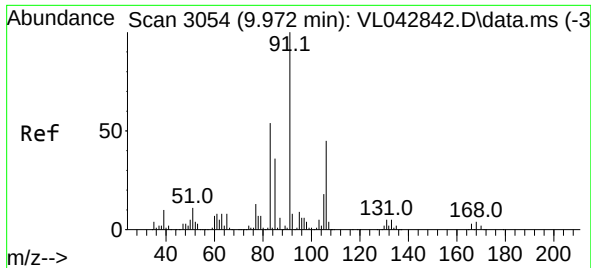
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#62
Isopropylbenzene
Concen: 11.521 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 717761
Ion Ratio Lower Upper
105 100
120 25.3 20.6 30.8





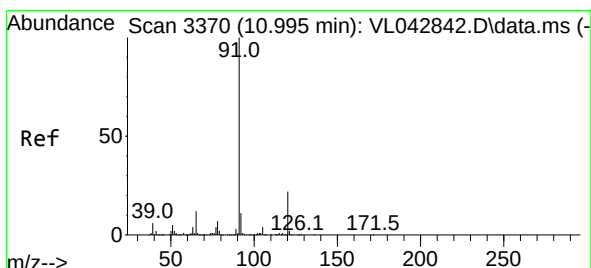
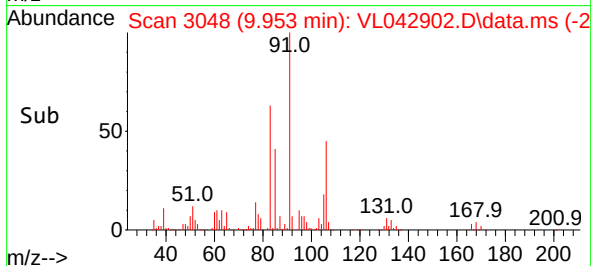
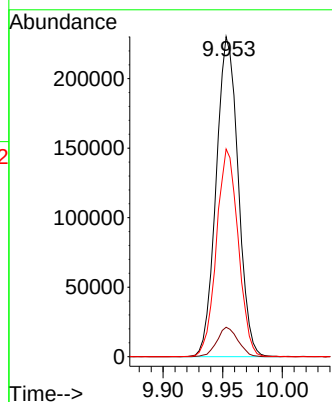
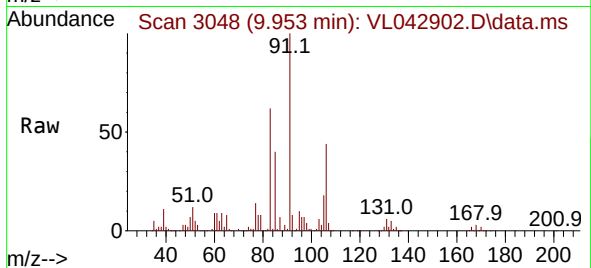
#63
1,1,2,2-Tetrachloroethane
Concen: 12.588 ppbv
RT: 9.953 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 83 Resp: 29511
Ion Ratio Lower Upper
83 100
131 8.8 4.8 14.3
85 64.3 32.3 96.8

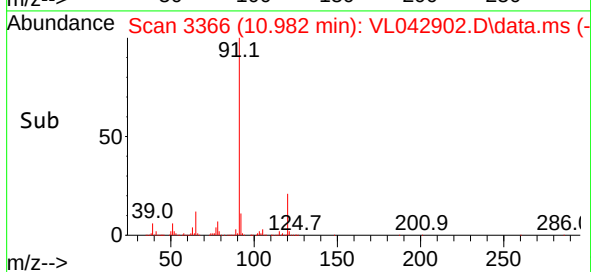
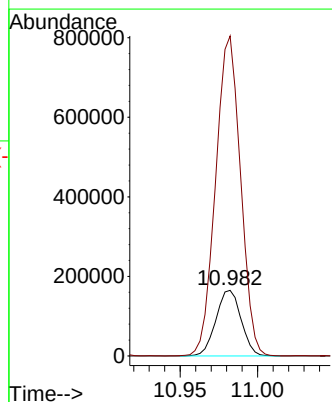
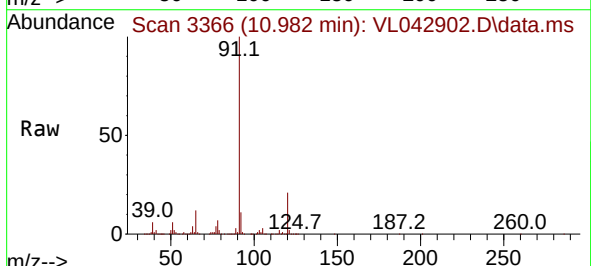
Manual Integrations
APPROVED

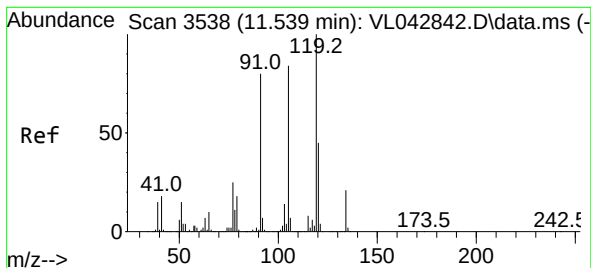
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#64
n-propylbenzene
Concen: 11.717 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

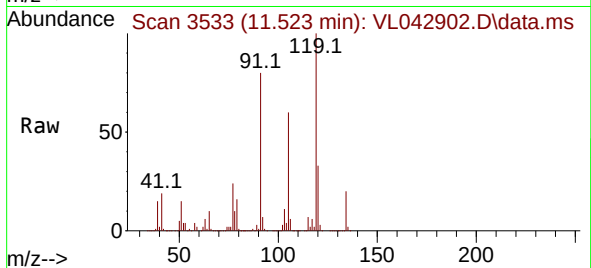
Tgt Ion:120 Resp: 186258
Ion Ratio Lower Upper
120 100
91 484.6 375.8 563.6





#65
tert-Butylbenzene
Concen: 11.541 ppbv
RT: 11.523 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

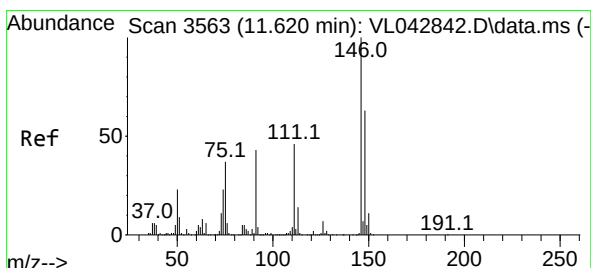
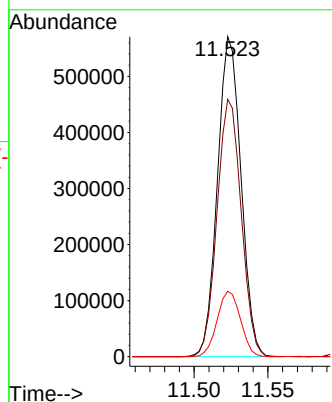
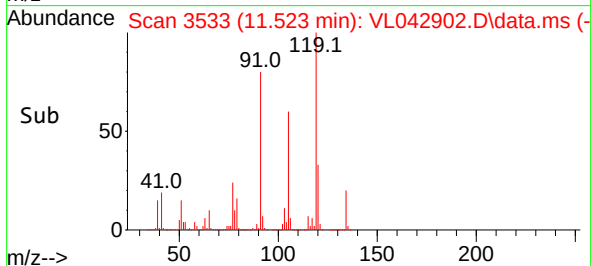
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



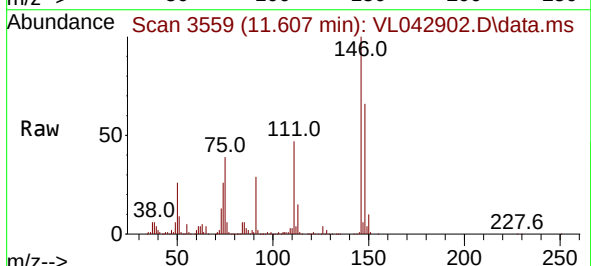
Tgt Ion: 119 Resp: 63384
Ion Ratio Lower Upper
119 100
91 82.5 63.9 95.9
134 20.3 17.0 25.4

Manual Integrations
APPROVED

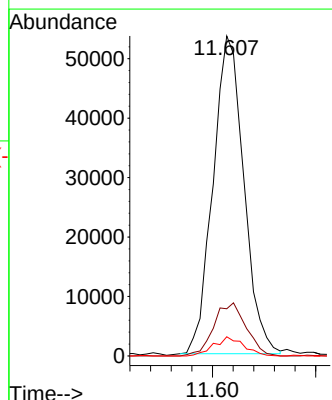
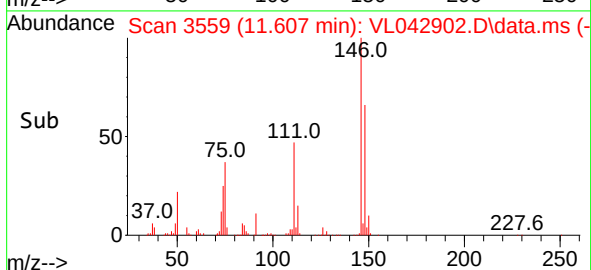
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

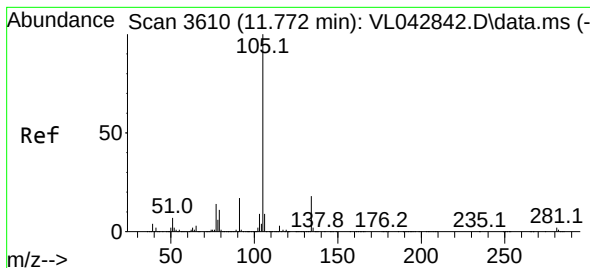


#66
Benzyl Chloride
Concen: 7.954 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



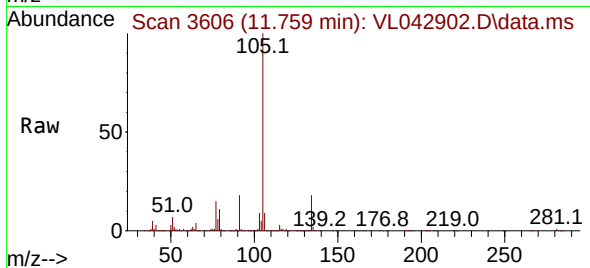
Tgt Ion: 91 Resp: 55458
Ion Ratio Lower Upper
91 100
126 17.6 14.2 21.4
128 5.9 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 11.739 ppbv
 RT: 11.759 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

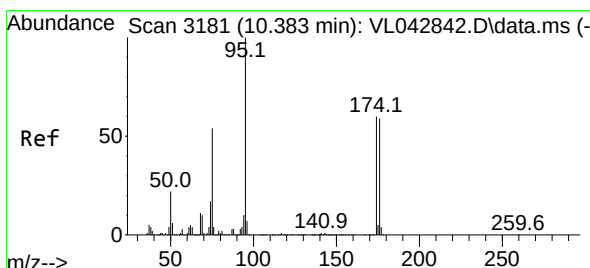
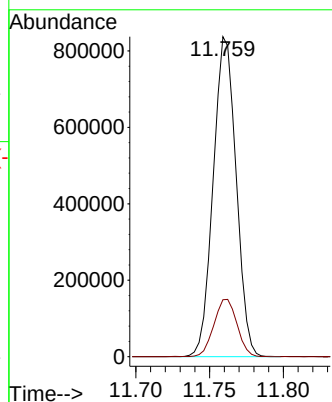
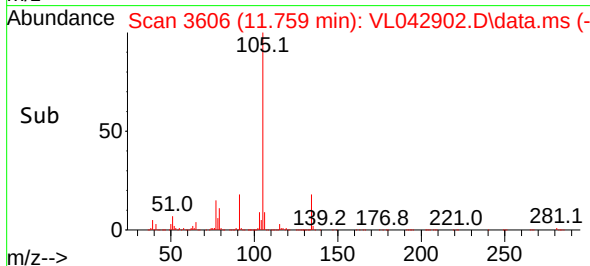
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



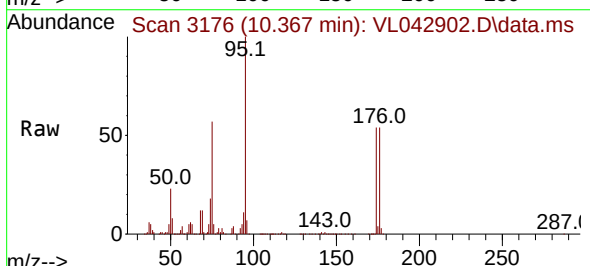
Tgt Ion:105 Resp: 90497
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.9 22.3

Manual Integrations APPROVED

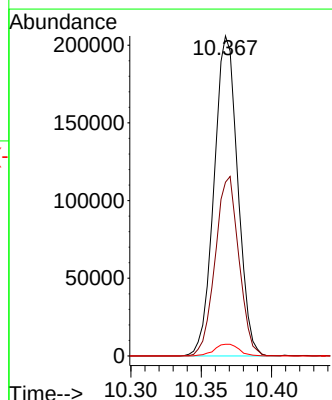
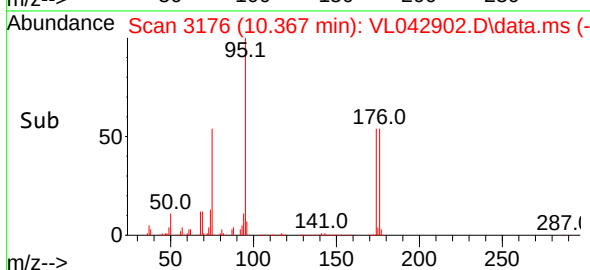
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

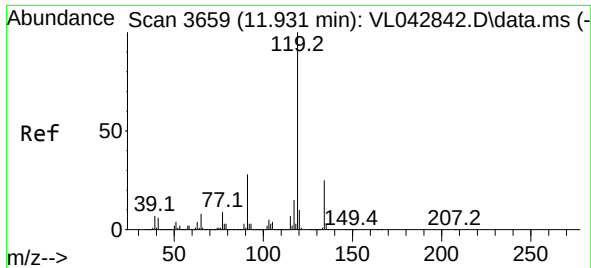


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.481 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



Tgt Ion: 95 Resp: 240840
 Ion Ratio Lower Upper
 95 100
 174 56.6 48.4 72.6
 175 3.8 3.8 5.8





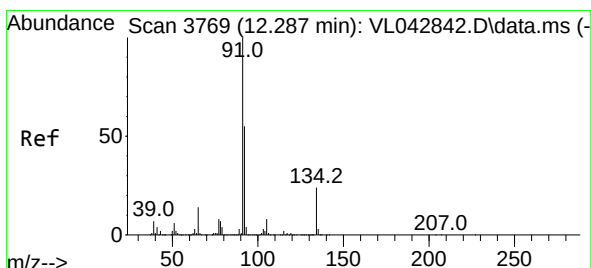
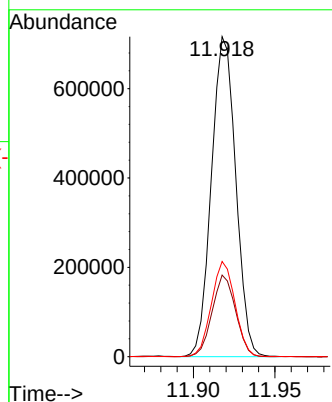
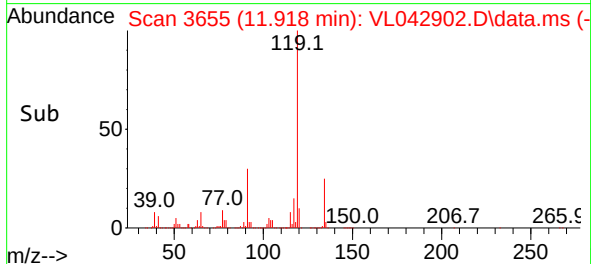
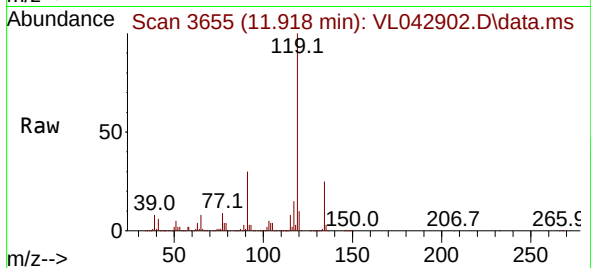
#69
p-Isopropyltoluene
Concen: 11.229 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:119 Resp: 743217
Ion Ratio Lower Upper
119 100
134 24.6 20.6 30.8
91 28.9 22.6 34.0

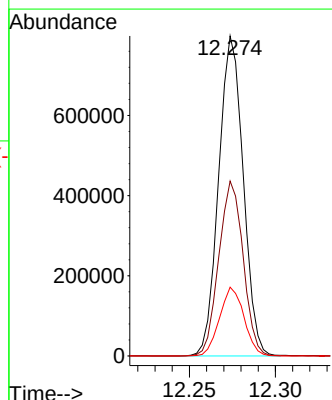
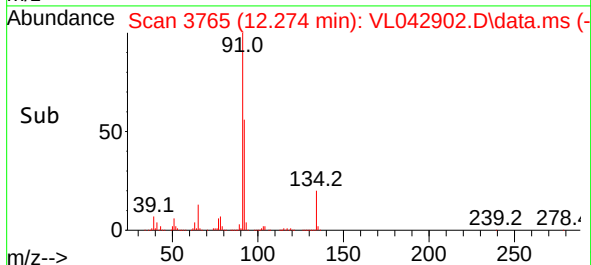
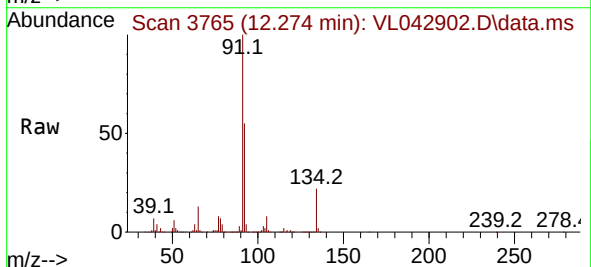
Manual Integrations
APPROVED

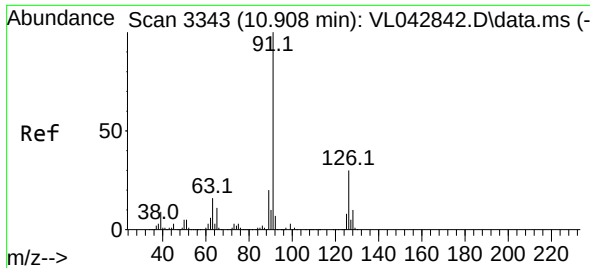
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#70
n-Butylbenzene
Concen: 12.084 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 793205
Ion Ratio Lower Upper
91 100
92 54.3 44.6 66.8
134 21.4 19.0 28.4





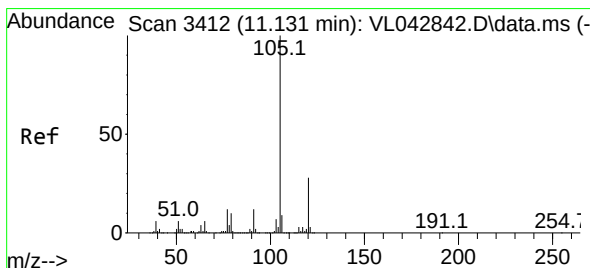
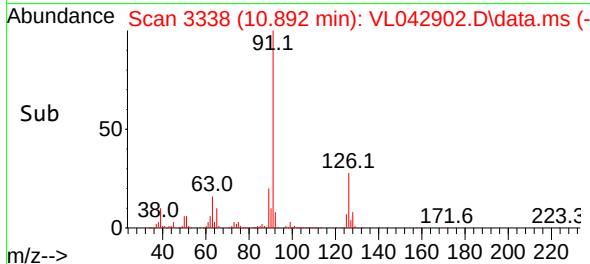
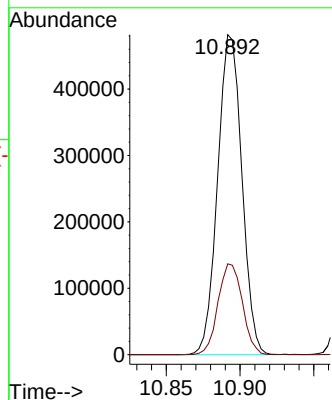
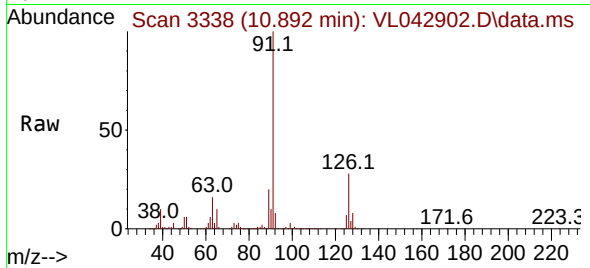
#71
2-Chlorotoluene
Concen: 11.398 ppbv
RT: 10.892 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 551398
Ion Ratio Lower Upper
91 100
126 28.5 12.0 47.8

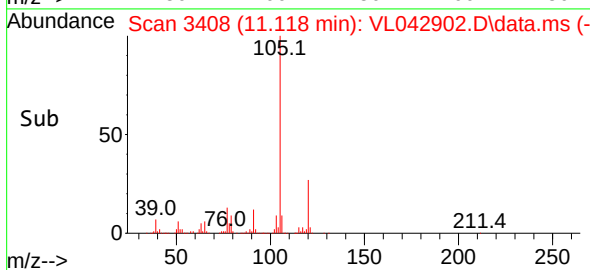
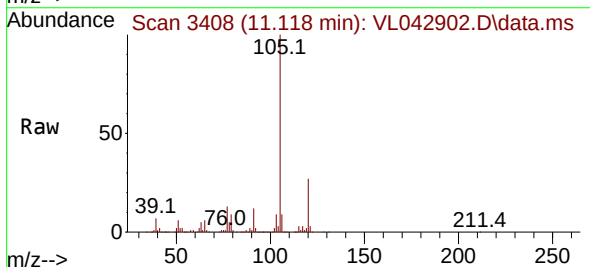
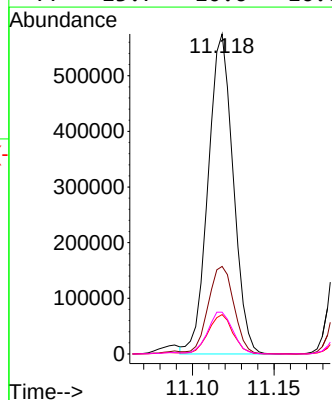
Manual Integrations
APPROVED

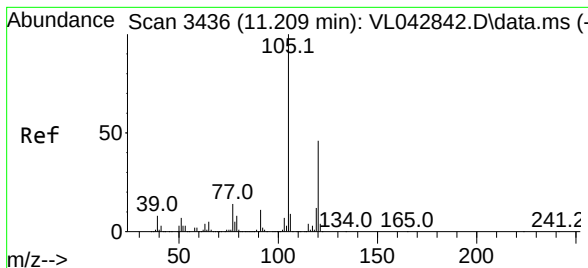
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#72
4-Ethyltoluene
Concen: 11.871 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 613510
Ion Ratio Lower Upper
105 100
120 28.9 23.4 35.2
91 12.5 9.8 14.6
77 13.7 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 11.496 ppbv

RT: 11.196 min Scan# 3436

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

Tgt Ion:105 Resp: 505222

Ion Ratio Lower Upper

105 100

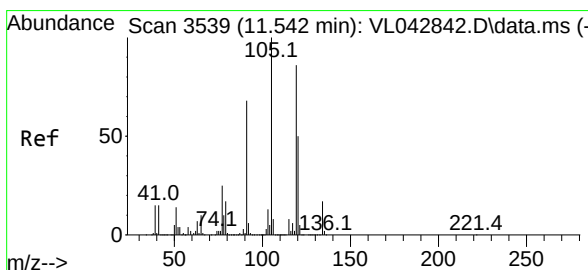
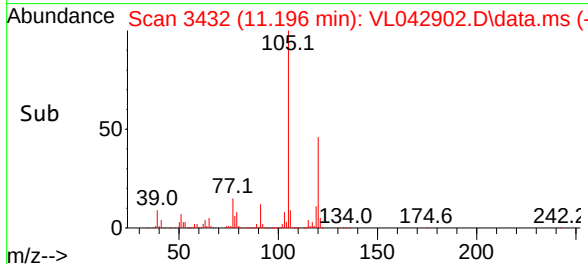
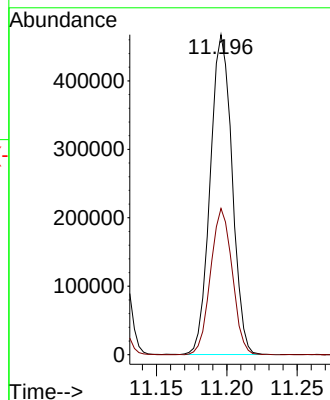
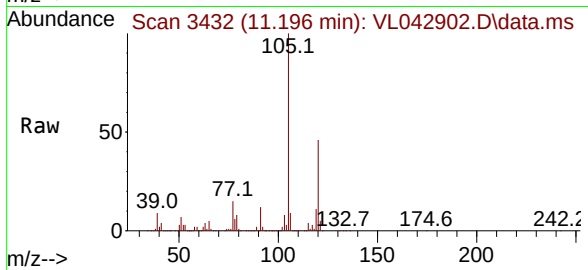
120 45.7 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.668 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 562868

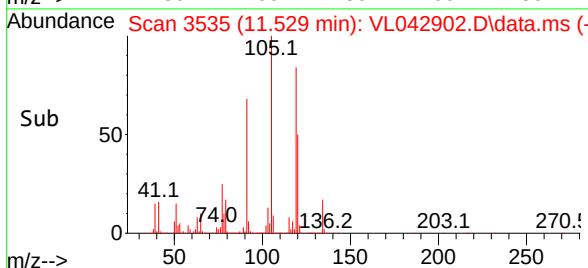
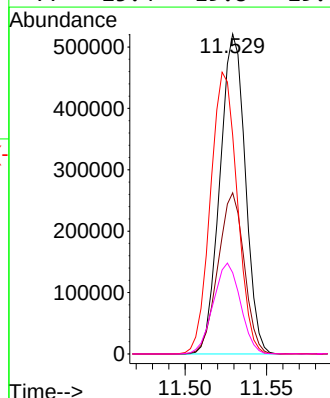
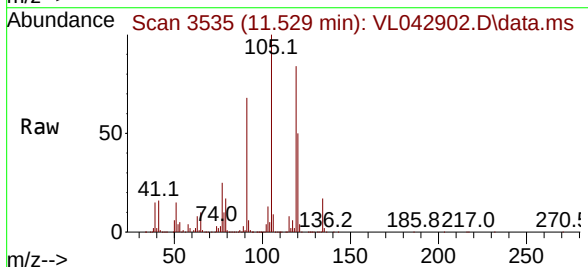
Ion Ratio Lower Upper

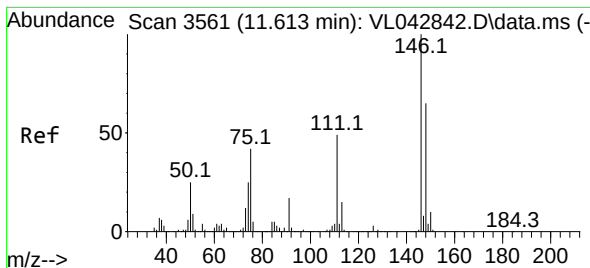
105 100

120 50.3 39.8 59.6

91 68.3 54.2 81.4

77 25.4 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 11.778 ppbv

RT: 11.600 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

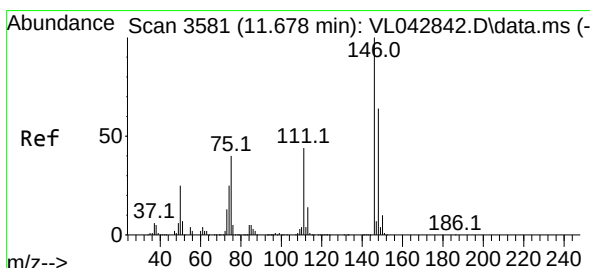
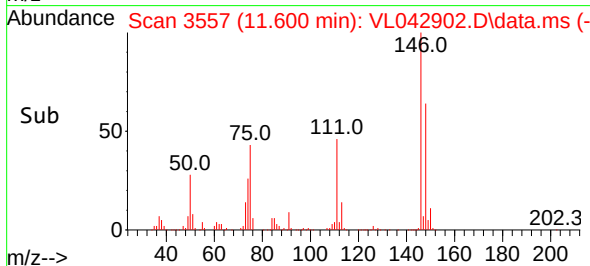
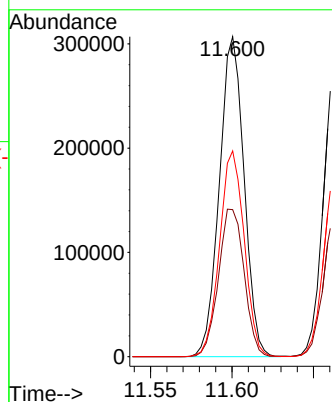
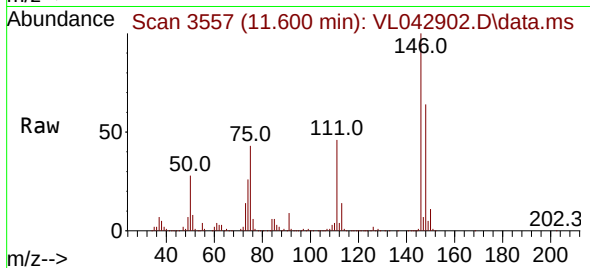
VL0908ABS01

Tgt Ion:	146	Resp:	322979
Ion Ratio	Lower	Upper	
146	100		
111	48.0	23.9	71.7
148	64.2	31.4	94.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#76

1,4-Dichlorobenzene

Concen: 11.563 ppbv

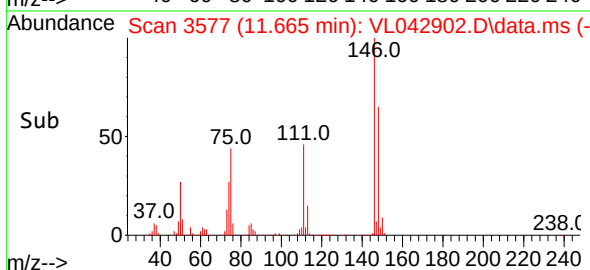
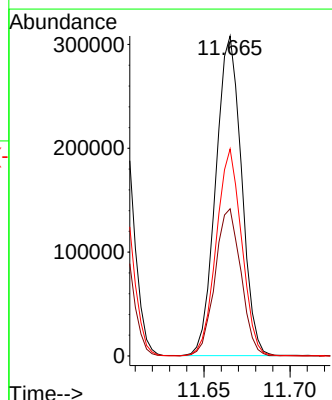
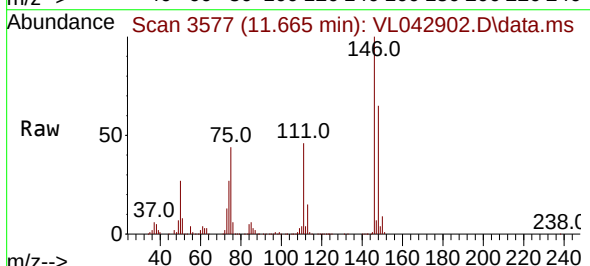
RT: 11.665 min Scan# 3577

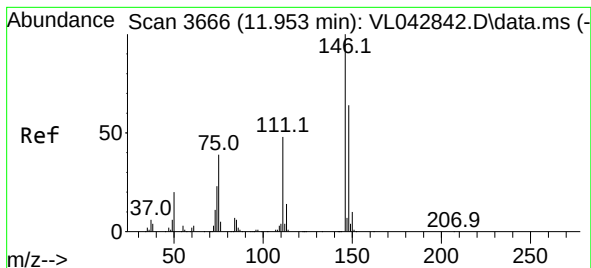
Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:	146	Resp:	320689
Ion Ratio	Lower	Upper	
146	100		
111	46.3	22.7	68.1
148	64.1	31.8	95.3





#77

1,2-Dichlorobenzene

Concen: 11.524 ppbv

RT: 11.940 min Scan# 30943

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

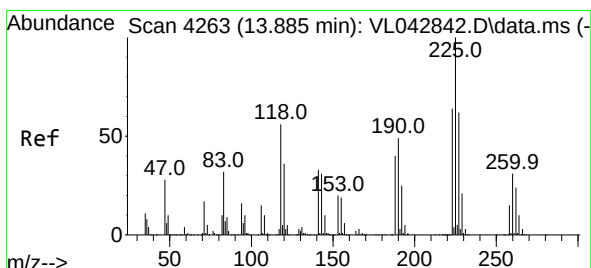
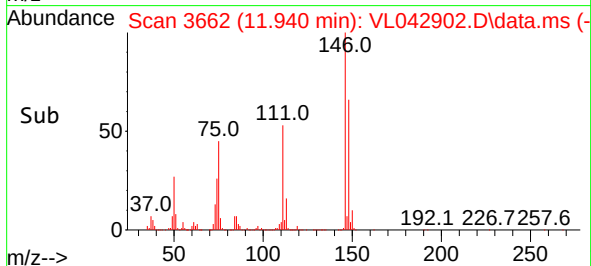
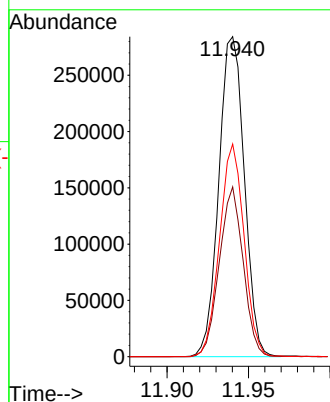
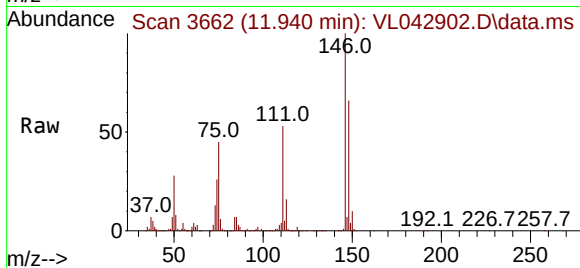
VL0908ABS01

Tgt Ion:	146	Resp:	30943
Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.6	74.0
148	63.7	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.542 ppbv

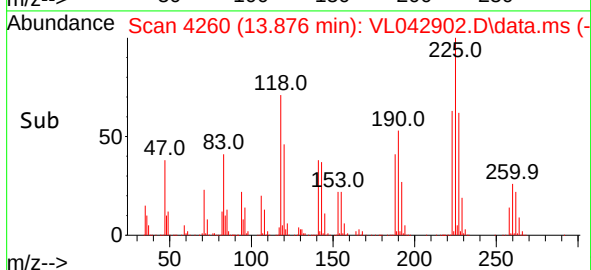
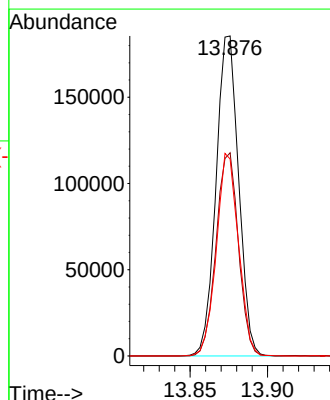
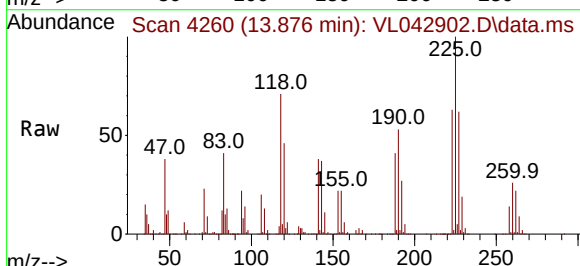
RT: 13.876 min Scan# 4260

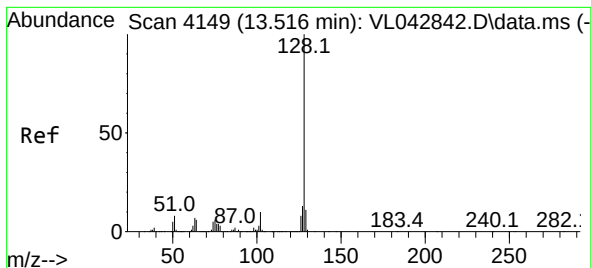
Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:	225	Resp:	187990
Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.4	77.2
227	62.1	51.9	77.9





#79

Naphthalene

Concen: 10.914 ppbv

RT: 13.507 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

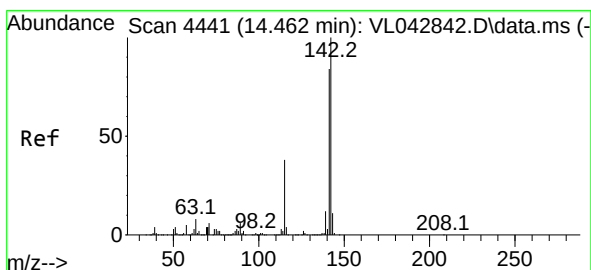
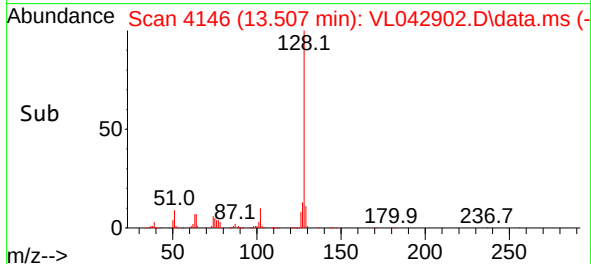
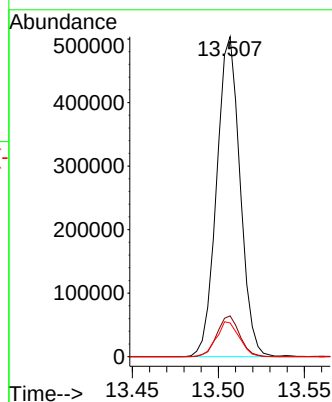
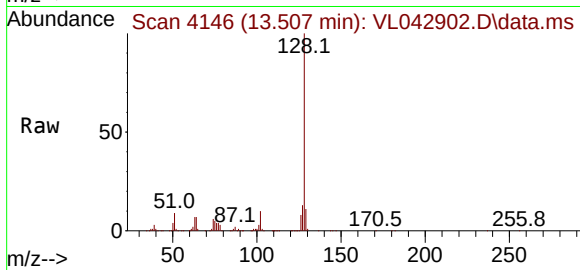
VL0908ABS01

Tgt Ion:128	Resp: 47731
Ion Ratio	Lower Upper
128 100	
127 12.8	10.6 16.0
129 10.6	8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#80

Naphthalene,2-methyl-

Concen: 8.713 ppbv

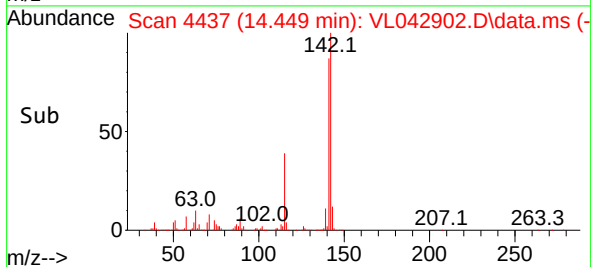
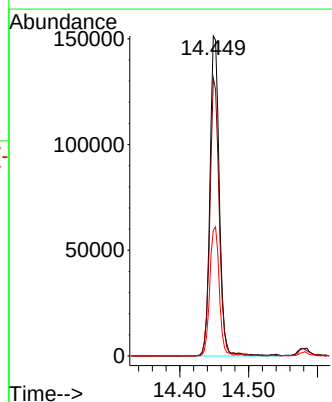
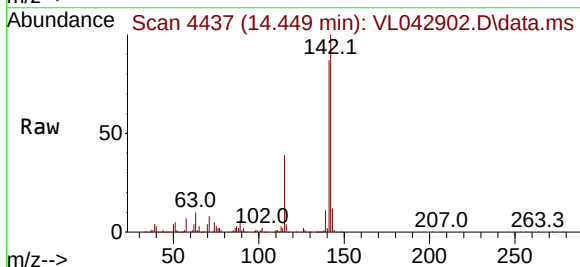
RT: 14.449 min Scan# 4437

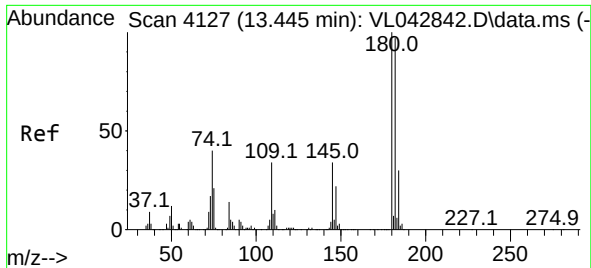
Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:142	Resp: 142381
Ion Ratio	Lower Upper
142 100	
141 85.9	67.0 100.6
115 41.3	30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 10.401 ppbv

RT: 13.432 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042902.D

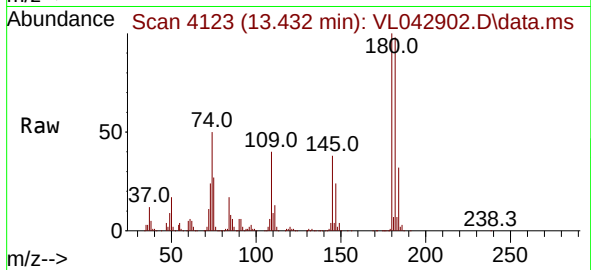
Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01



Tgt Ion:180 Resp: 228630

Ion Ratio Lower Upper

180 100

182 96.5 76.9 115.3

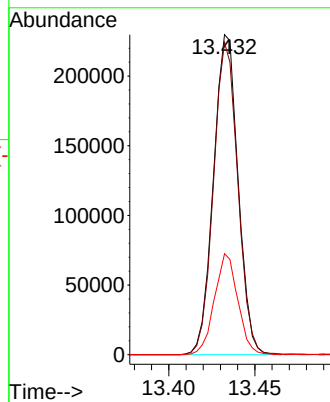
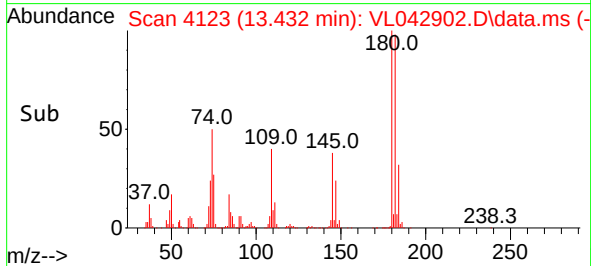
184 30.0 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	
Client Sample ID:	IA-2DUP	SDG No.:	Q3038
Lab Sample ID:	Q3037-01DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042905.D	1		09/08/25 15:59	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.4			70 (65) - 130 (135)	104% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	141000		2.781		
540-36-3	1,4-Difluorobenzene	372000		3.949		
3114-55-4	Chlorobenzene-d5	303000		8.875		

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\VL090825\
 Data File : VL042905.D
 Acq On : 08 Sep 2025 15:59
 Operator : SY/MD
 Sample : Q3037-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:57:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	141221	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	372044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	303028	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	235889	10.380	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9819	0.474	ppbv	97
3) Chlorodifluoromethane	1.473	51	86667	3.788	ppbv #	90
4) Chloromethane	1.531	50	8391	1.005	ppbv	100
9) Propene	1.486	41	8897m	0.901	ppbv	
11) Trichlorofluoromethane	1.874	101	8119m	0.398	ppbv	
13) Ethanol	1.719	45	171366	189.695	ppbv	92
15) Acetone	1.832	43	2269673	121.496	ppbv #	76
19) Isopropyl Alcohol	1.884	45	2182649	195.618	ppbv	98
20) Methylene Chloride	2.062	84	8047	1.028	ppbv #	74
23) Vinyl Acetate	2.450	43	18956m	0.738	ppbv	
25) Ethyl Acetate	2.832	43	150520	3.329	ppbv #	95
29) Chloroform	2.845	83	8213	0.276	ppbv	93
34) 2-Butanone	2.554	43	27696	1.102	ppbv	97
35) Carbon Tetrachloride	3.755	117	4459	0.174	ppbv #	97
36) Benzene	3.648	78	4495m	0.126	ppbv	
41) Tetrahydrofuran	3.062	42	3374m	0.241	ppbv	
43) Methyl Methacrylate	4.878	69	4057m	0.276	ppbv	
50) 4-Methyl-2-Pentanone	5.745	43	68077	2.005	ppbv	99
53) Toluene	6.927	91	14047m	0.332	ppbv	
59) m/p-Xylene	9.519	91	7173m	0.171	ppbv	
60) o-Xylene	9.959	91	4723	0.112	ppbv	87
64) n-propylbenzene	10.989	120	1655m	0.105	ppbv	
72) 4-Ethyltoluene	11.121	105	12693	0.248	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.196	105	14080	0.324	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	53636	1.124	ppbv #	59

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

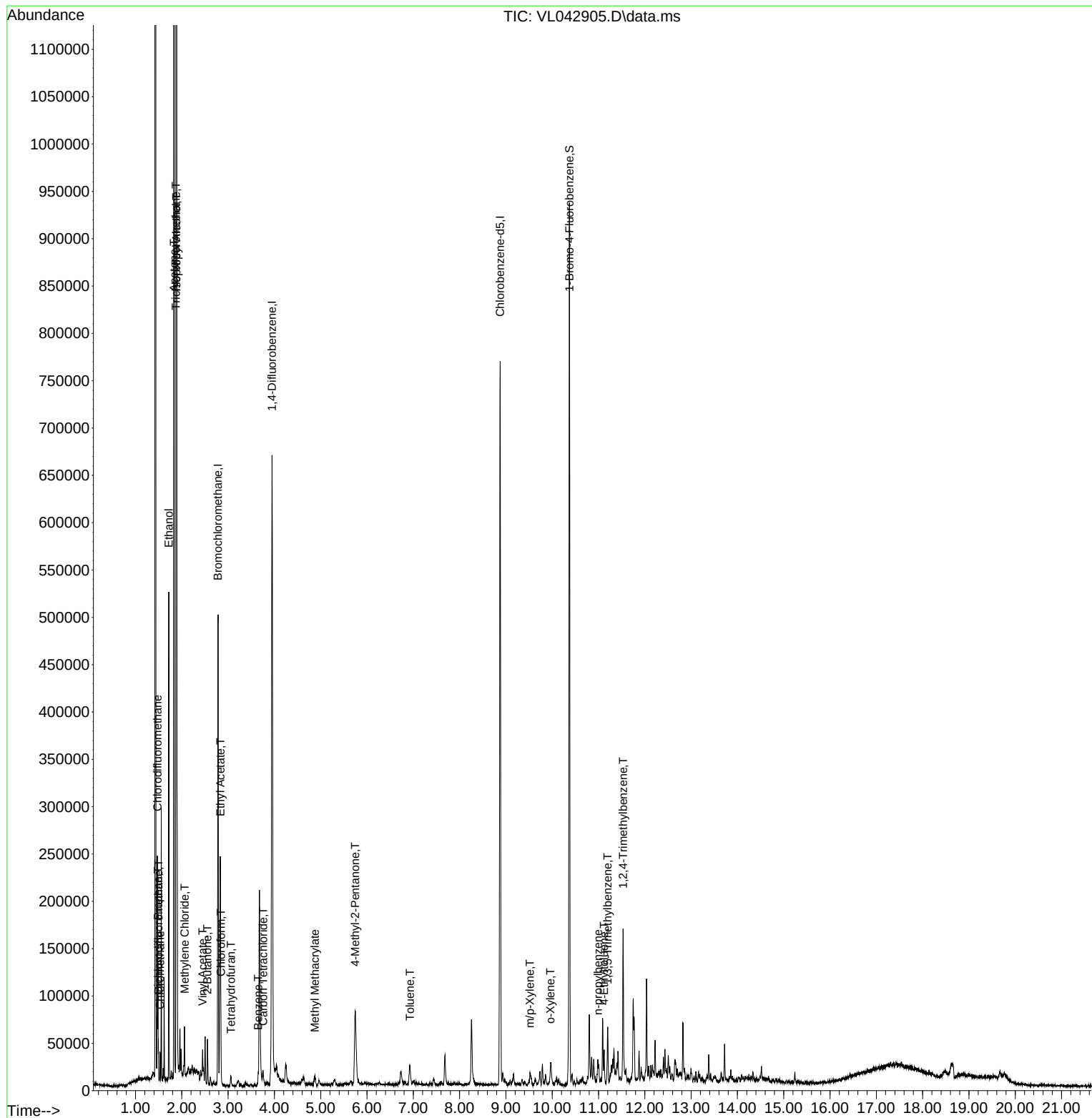
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

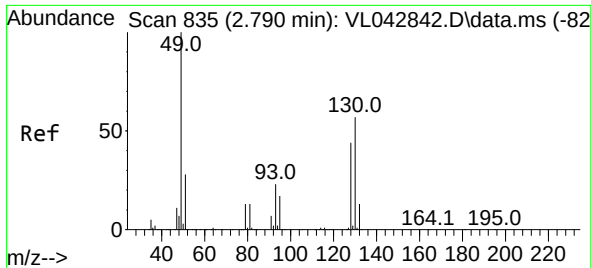
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
Supervised By : Mahesh Dadoda 09/11/2025





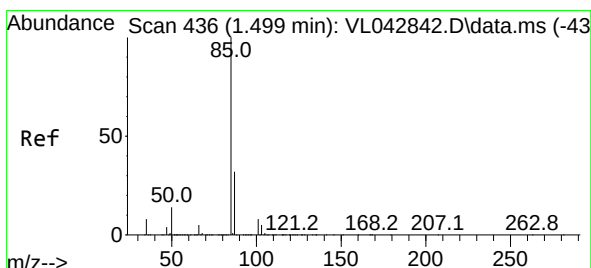
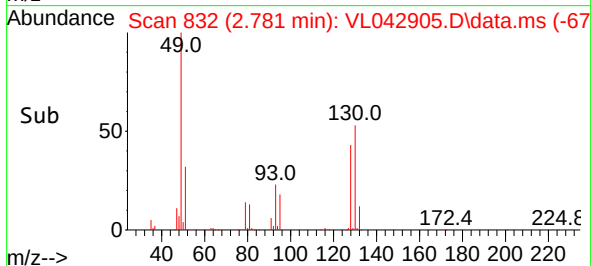
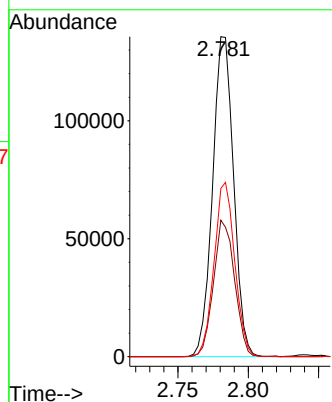
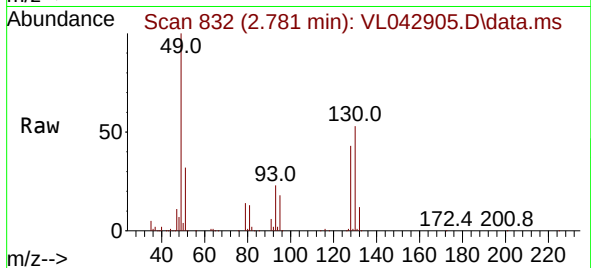
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. 0.004 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 49 Resp: 14122
Ion Ratio Lower Upper
49 100
128 42.8 23.7 71.1
130 53.7 30.6 91.6

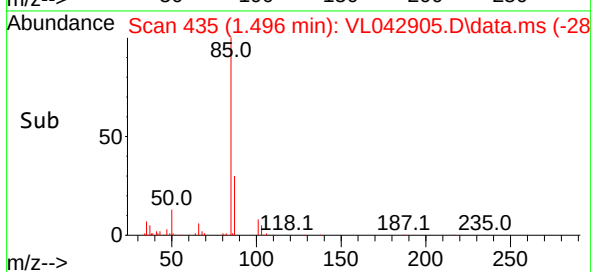
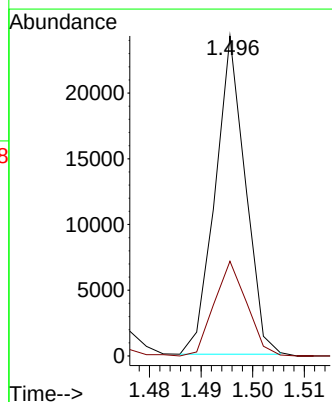
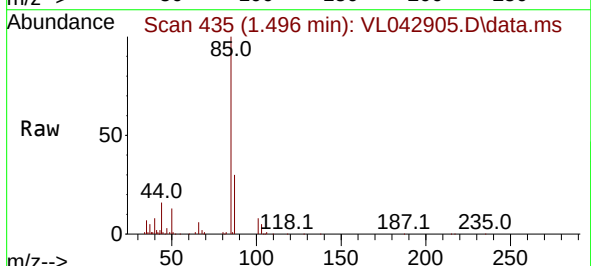
Manual Integrations
APPROVED

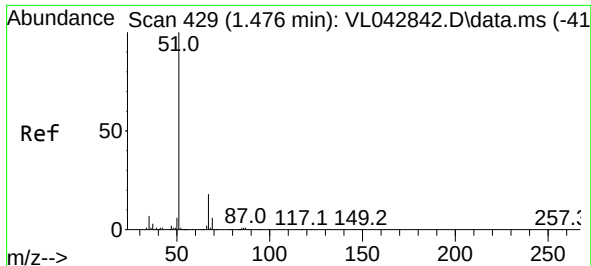
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.474 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

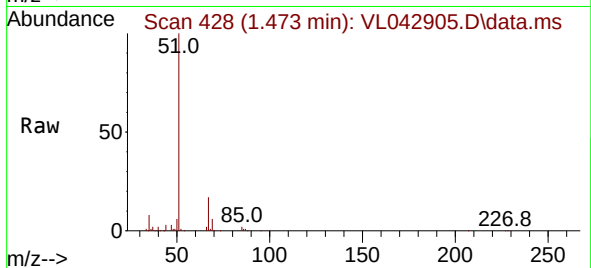
Tgt Ion: 85 Resp: 9819
Ion Ratio Lower Upper
85 100
87 29.8 25.3 37.9





#3
Chlorodifluoromethane
Concen: 3.788 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

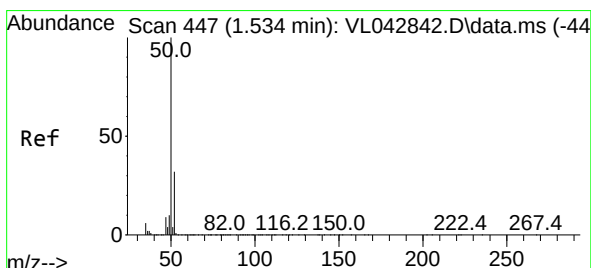
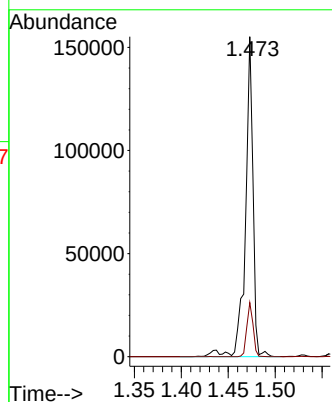
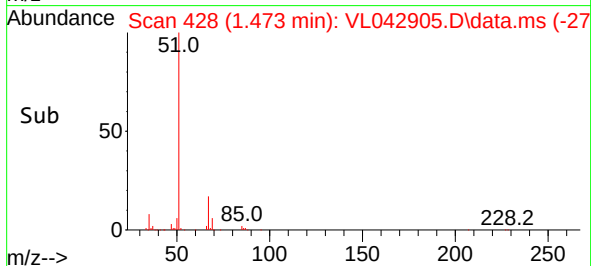
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



Tgt Ion: 51 Resp: 8666
Ion Ratio Lower Upper
51 100
67 14.0 14.9 22.3

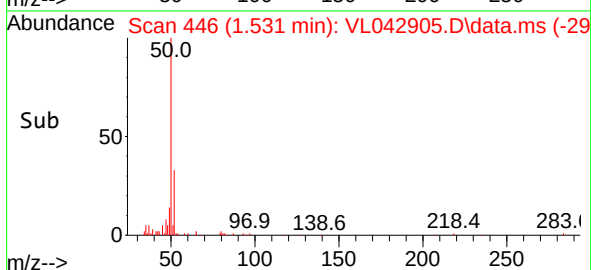
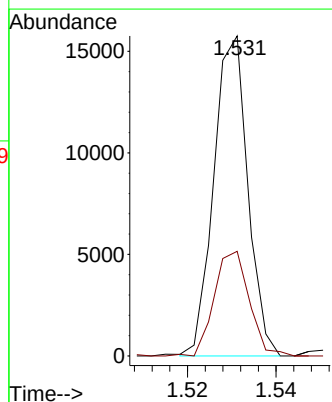
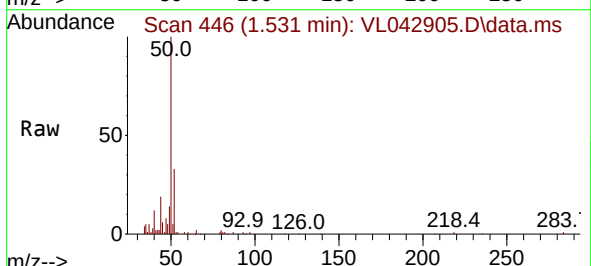
Manual Integrations
APPROVED

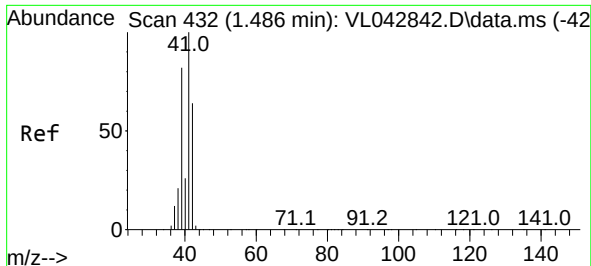
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 1.005 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 50 Resp: 8391
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9





#9

Propene

Concen: 0.901 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 41 Resp: 889

Ion Ratio Lower Upper

41 100

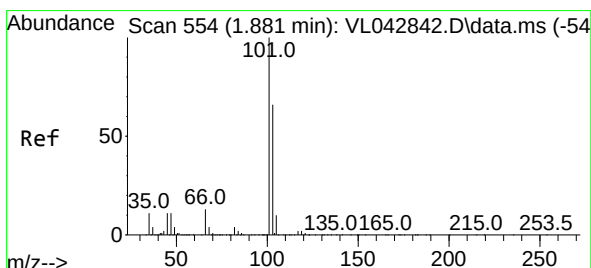
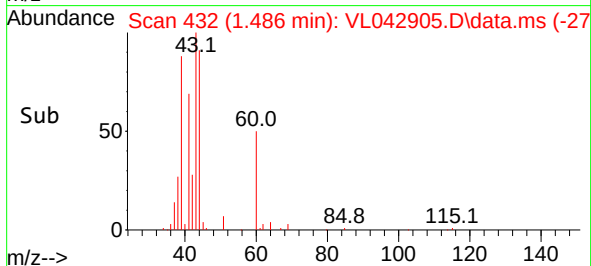
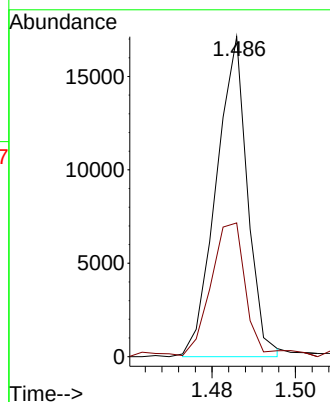
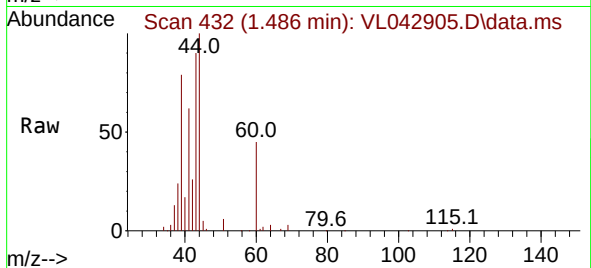
42 1680.7 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#11

Trichlorofluoromethane

Concen: 0.398 ppbv m

RT: 1.874 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL042905.D

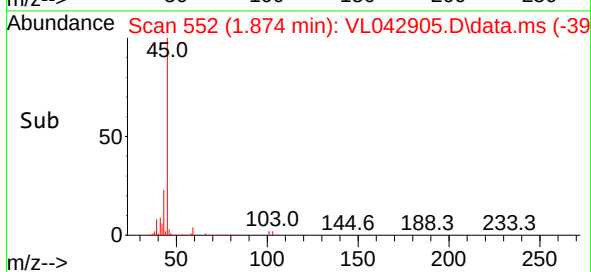
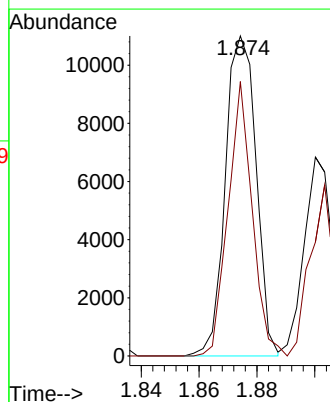
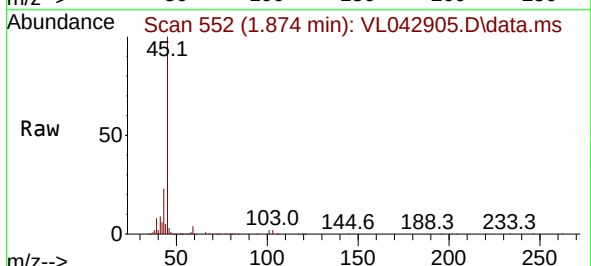
Acq: 08 Sep 2025 15:59

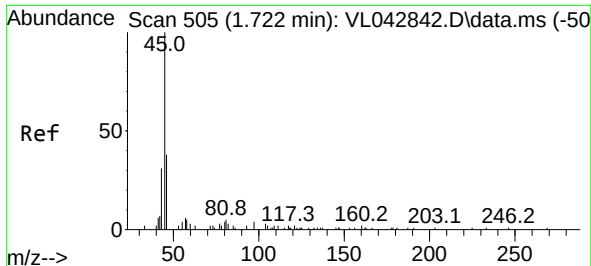
Tgt Ion:101 Resp: 8119

Ion Ratio Lower Upper

101 100

103 85.8 52.5 78.7#





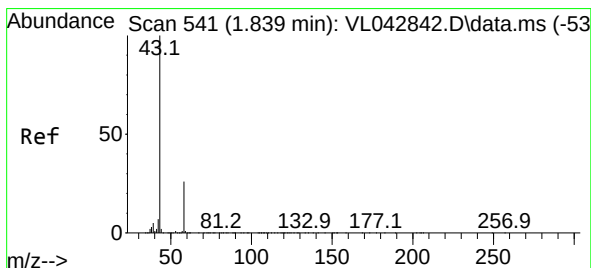
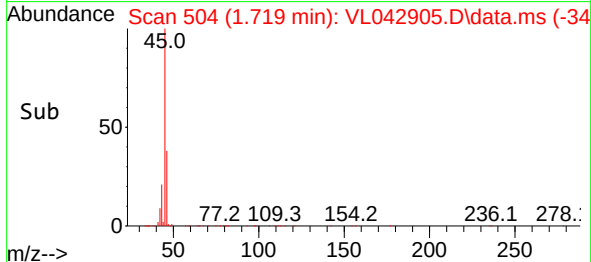
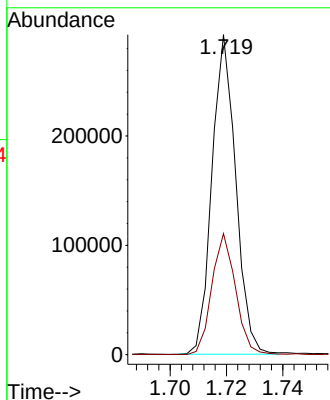
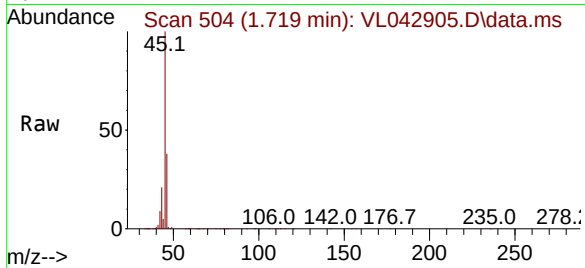
#13
Ethanol
Concen: 189.695 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 45 Resp: 171360
Ion Ratio Lower Upper
45 100
46 38.4 17.5 69.9

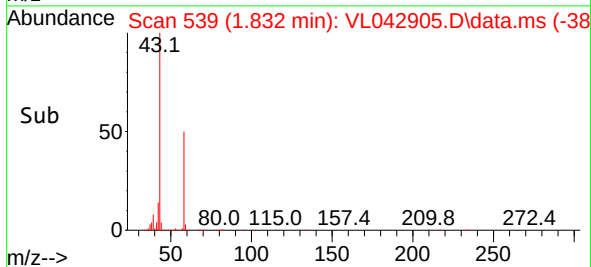
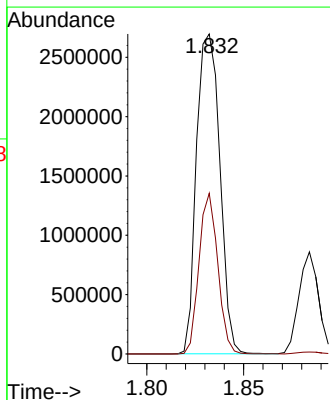
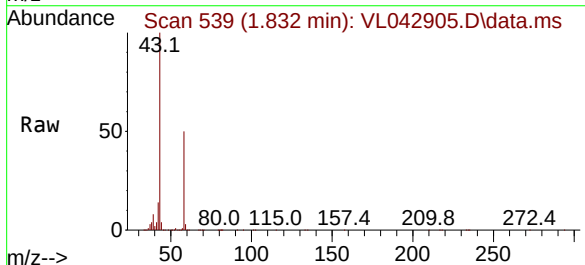
Manual Integrations
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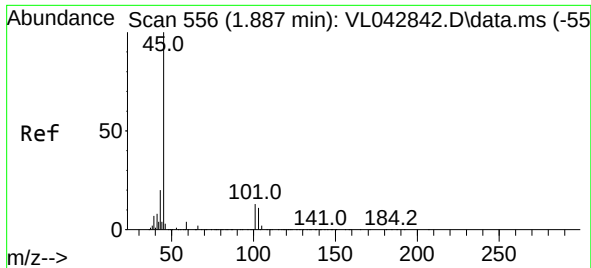
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#15
Acetone
Concen: 121.496 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 2269673
Ion Ratio Lower Upper
43 100
58 40.4 22.4 33.6#





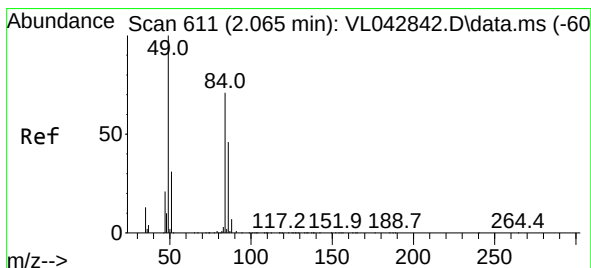
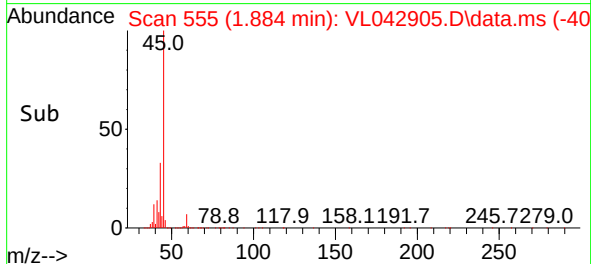
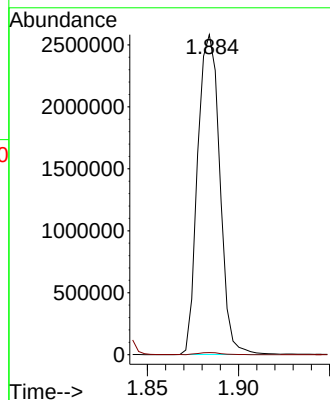
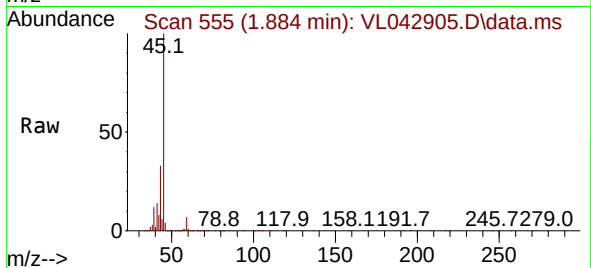
#19
Isopropyl Alcohol
Concen: 195.618 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 45 Resp: 2182649
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

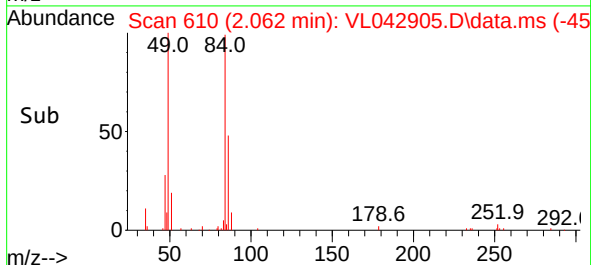
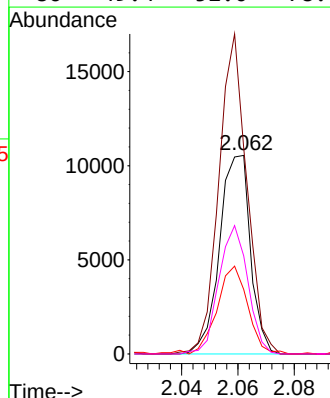
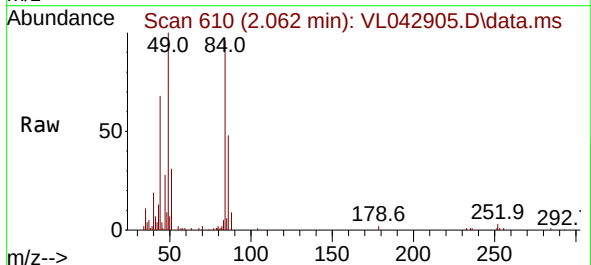
Manual Integrations
APPROVED

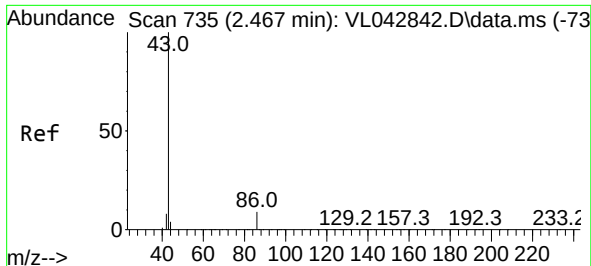
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 1.028 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

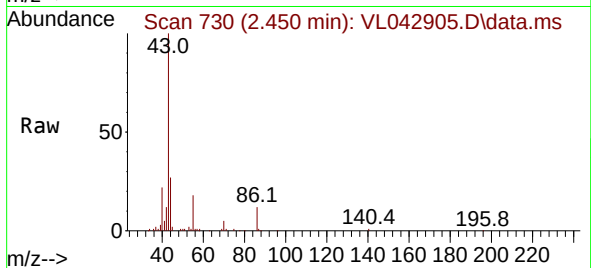
Tgt Ion: 84 Resp: 8047
Ion Ratio Lower Upper
84 100
49 102.7 112.3 168.5#
51 30.7 36.0 54.0#
86 49.4 52.0 78.0#





#23
 Vinyl Acetate
 Concen: 0.738 ppbv m
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

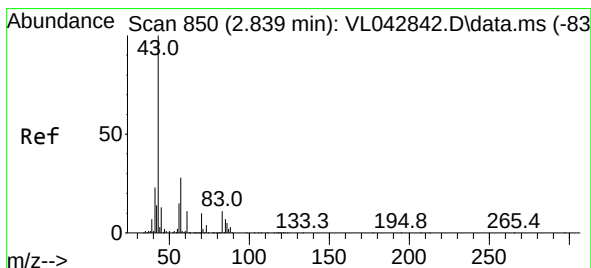
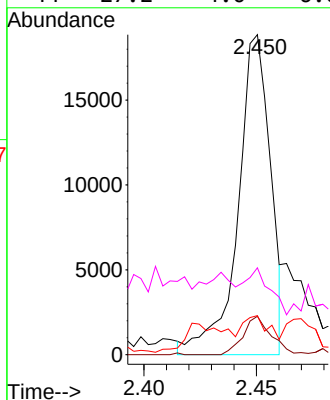
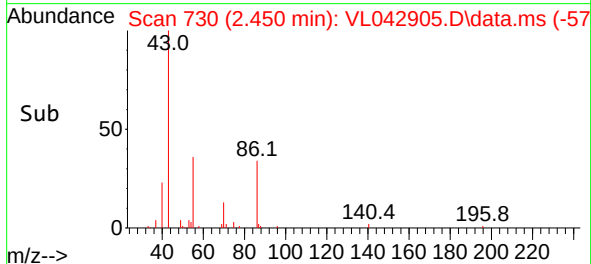
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP



Tgt Ion: 43 Resp: 18950
 Ion Ratio Lower Upper
 43 100
 86 12.0 6.6 9.8
 42 12.2 7.0 10.6
 44 27.2 4.0 6.0

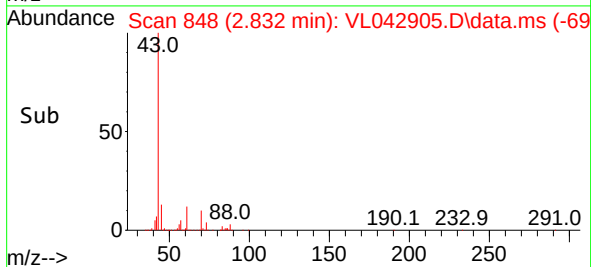
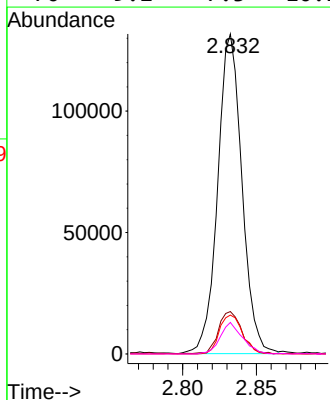
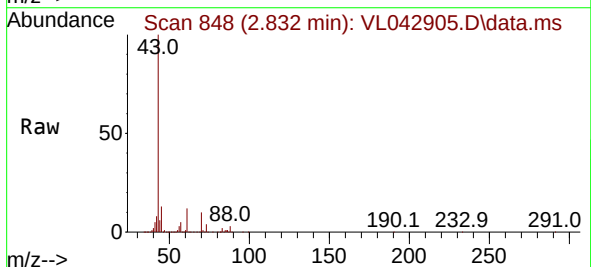
Manual Integrations
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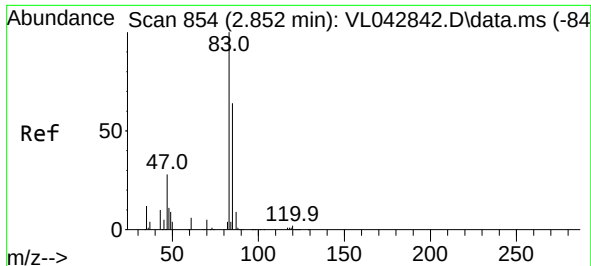
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#25
 Ethyl Acetate
 Concen: 3.329 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.006 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 150520
 Ion Ratio Lower Upper
 43 100
 45 12.7 8.1 12.1#
 61 11.7 7.4 11.2#
 70 9.2 7.3 10.9





#29

Chloroform

Concen: 0.276 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 83 Resp: 821

Ion Ratio Lower Upper

83 100

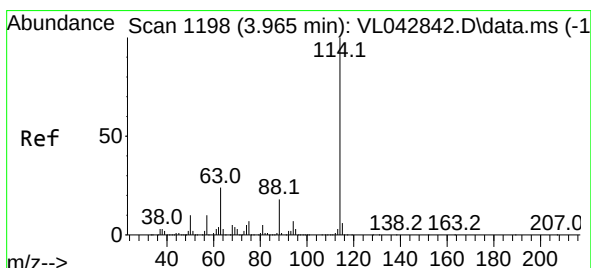
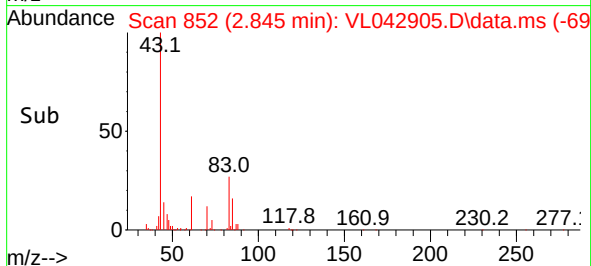
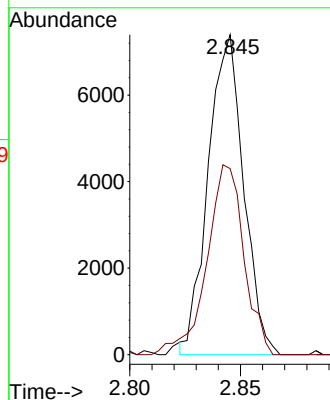
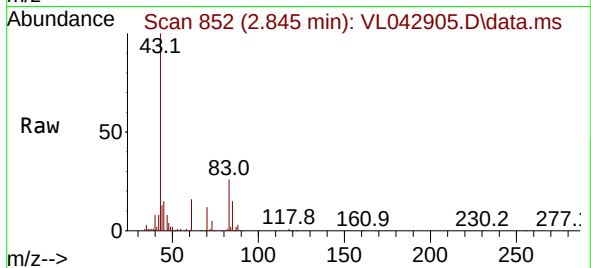
85 58.1 51.1 76.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

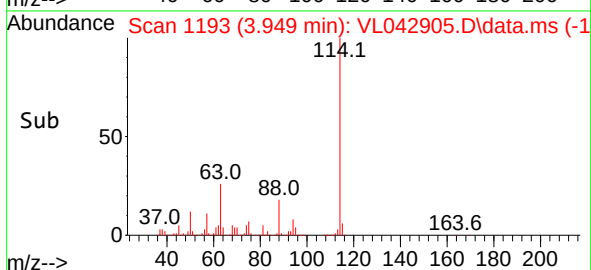
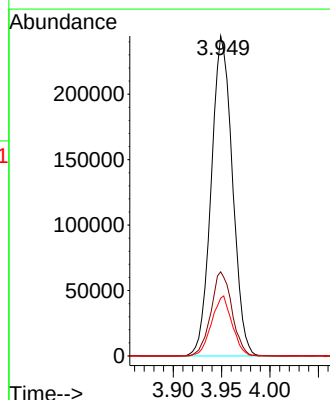
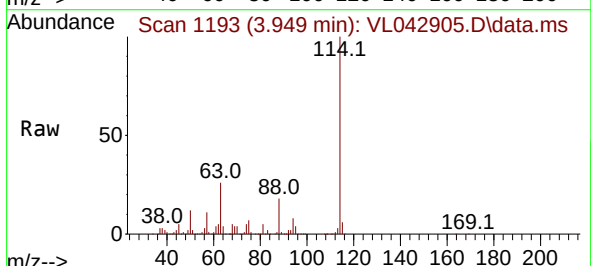
Tgt Ion:114 Resp: 372044

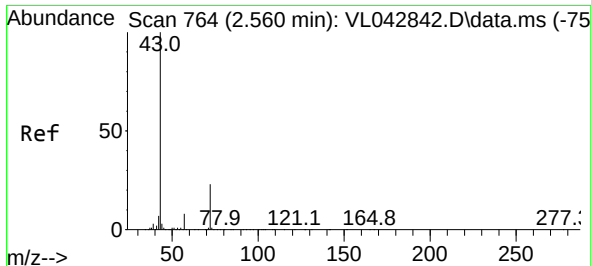
Ion Ratio Lower Upper

114 100

63 26.1 19.7 29.5

88 18.1 14.4 21.6





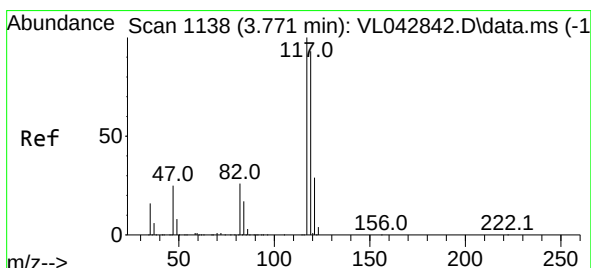
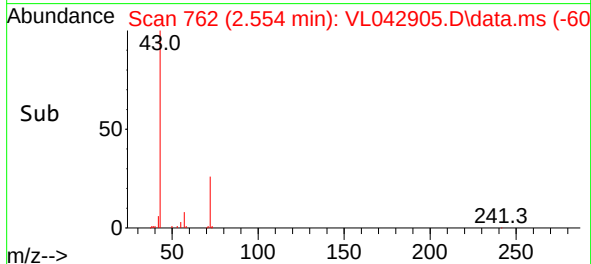
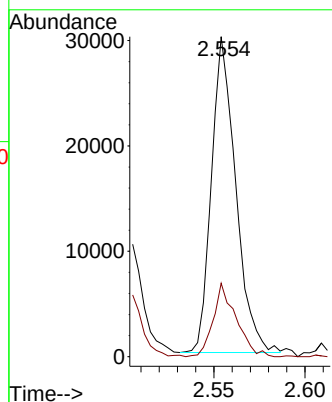
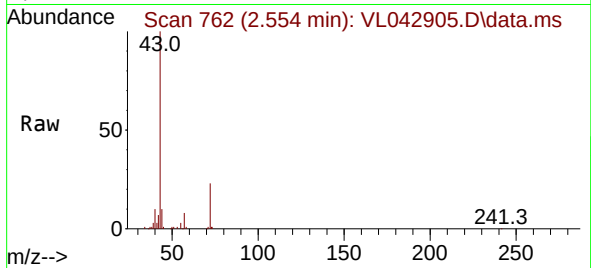
#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 27690
Ion Ratio Lower Upper
43 100
72 21.9 18.6 28.0

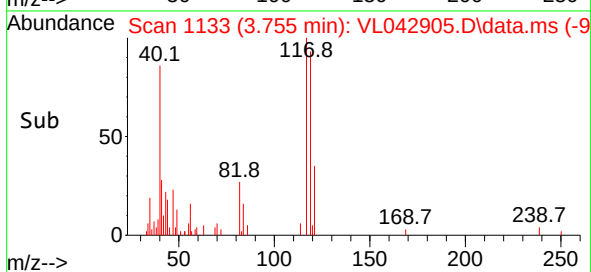
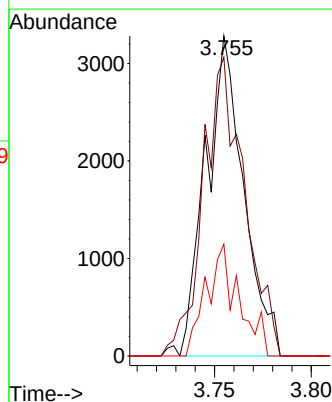
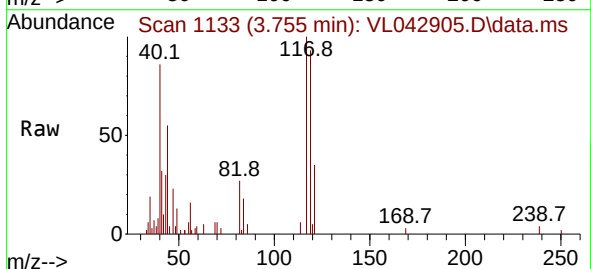
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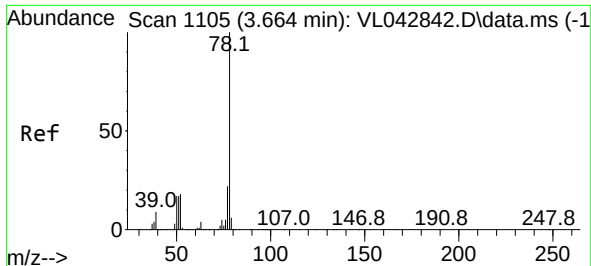
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#35
Carbon Tetrachloride
Concen: 0.174 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 4459
Ion Ratio Lower Upper
117 100
119 93.4 74.7 112.1
121 34.9 23.2 34.8#





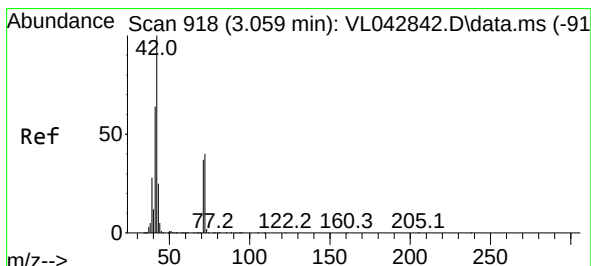
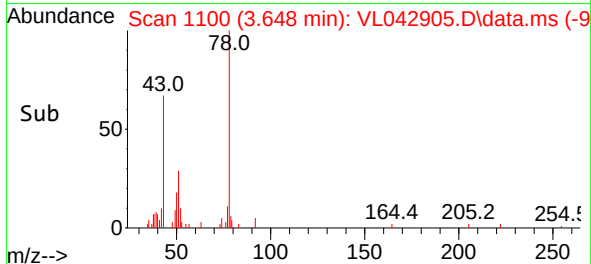
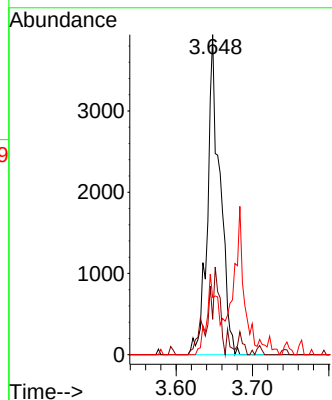
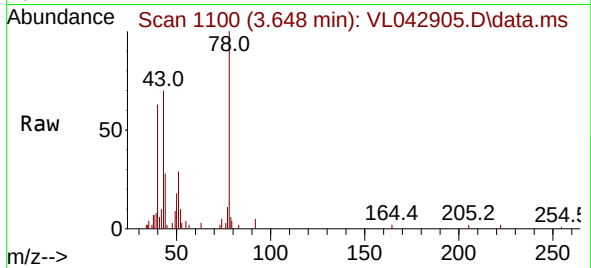
#36
Benzene
Concen: 0.126 ppbv m
RT: 3.648 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 78 Resp: 4498
Ion Ratio Lower Upper
78 100
77 11.0 17.7 26.5#
50 17.9 13.9 20.9

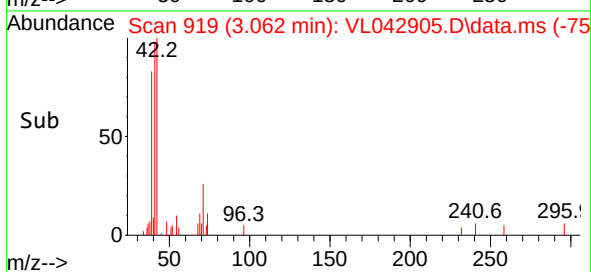
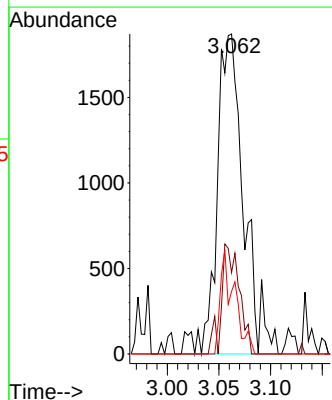
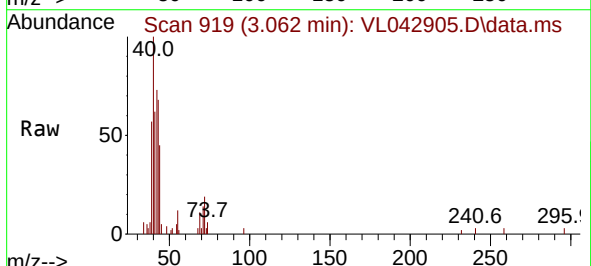
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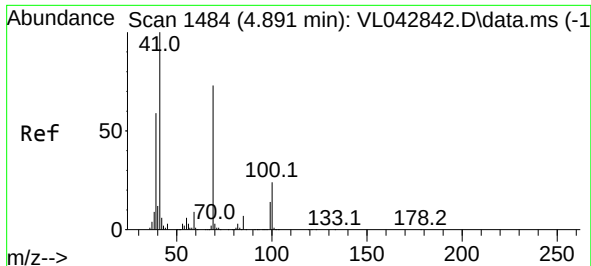
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#41
Tetrahydrofuran
Concen: 0.241 ppbv m
RT: 3.062 min Scan# 919
Delta R.T. 0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 42 Resp: 3374
Ion Ratio Lower Upper
42 100
72 22.9 32.6 48.8#
71 17.3 30.0 45.0#





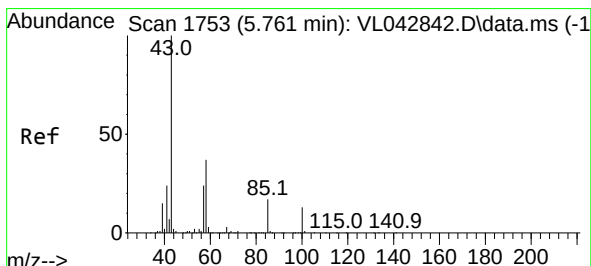
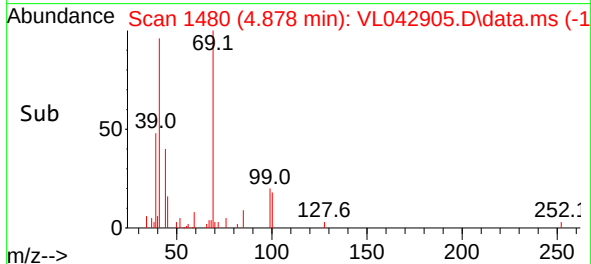
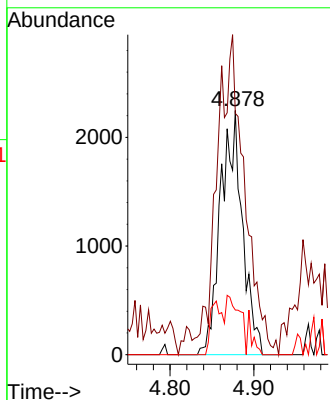
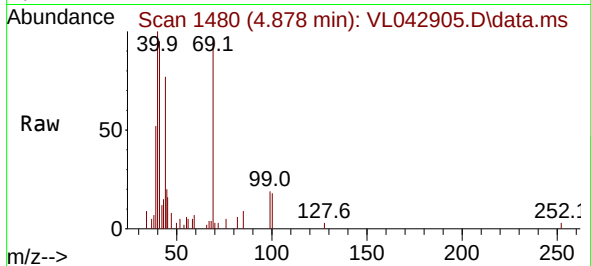
#43
Methyl Methacrylate
Concen: 0.276 ppbv m
RT: 4.878 min Scan# 1484
Delta R.T. 0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 69 Resp: 405
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 30.9 30.2 45.4

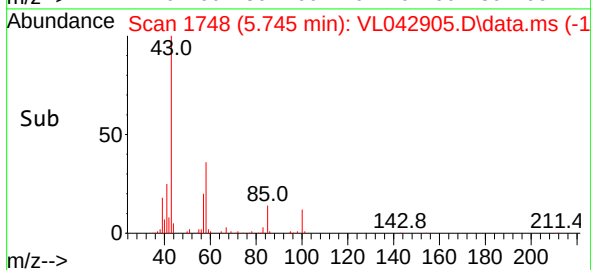
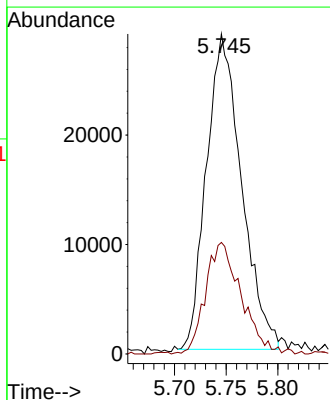
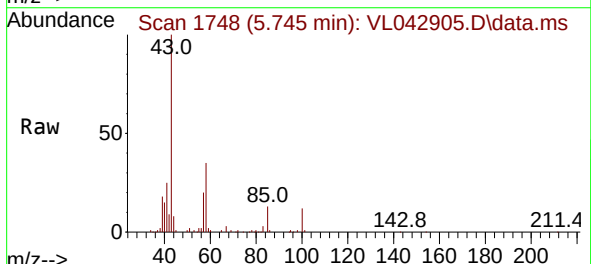
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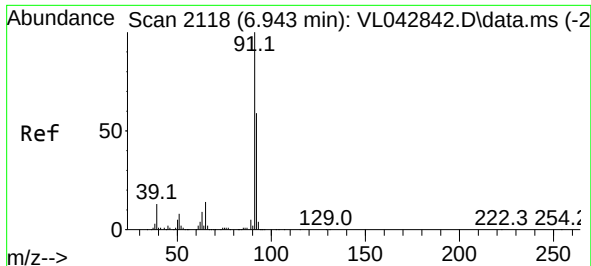
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#50
4-Methyl-2-Pentanone
Concen: 2.005 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.016 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 68077
Ion Ratio Lower Upper
43 100
58 36.5 29.8 44.8





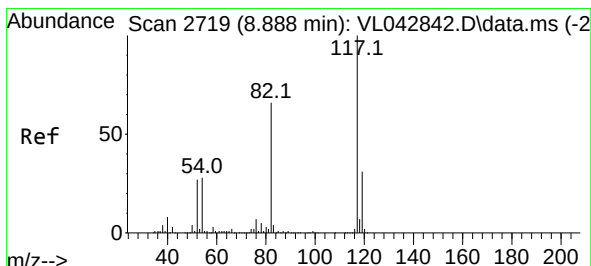
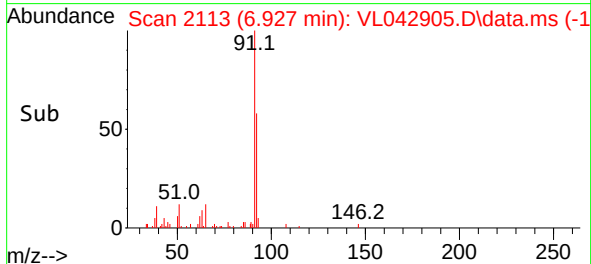
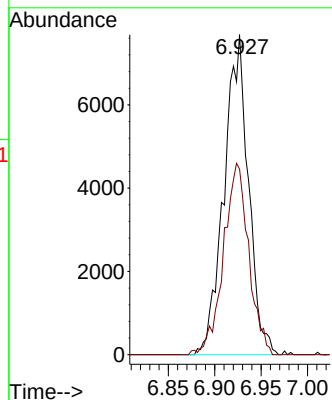
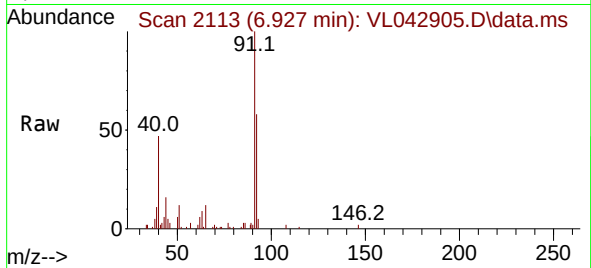
#53
Toluene
Concen: 0.332 ppbv m
RT: 6.927 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 1404
Ion Ratio Lower Upper
91 100
92 61.8 47.8 71.6

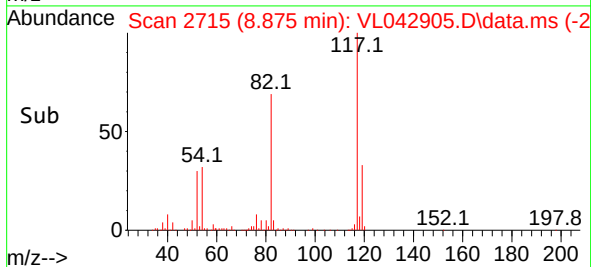
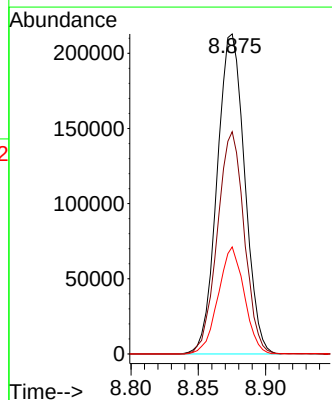
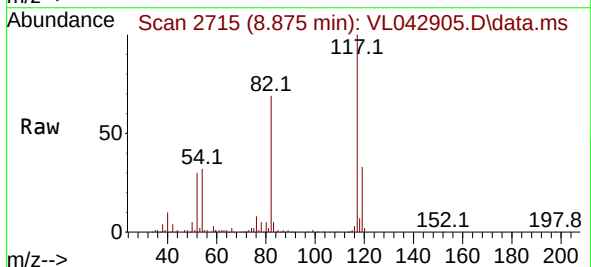
Manual Integrations
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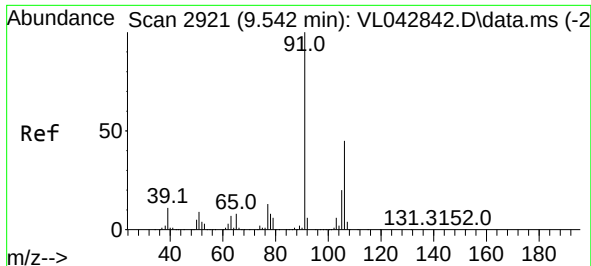
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 303028
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.7 25.9 38.9





#59

m/p-Xylene

Concen: 0.171 ppbv m

RT: 9.519 min Scan# 2914

Delta R.T. -0.019 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

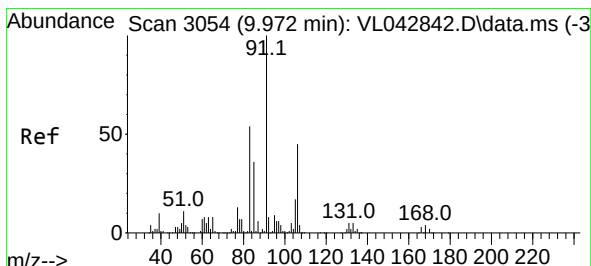
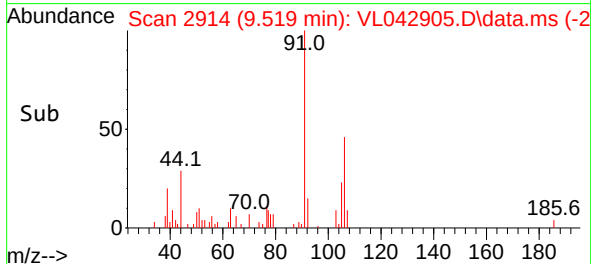
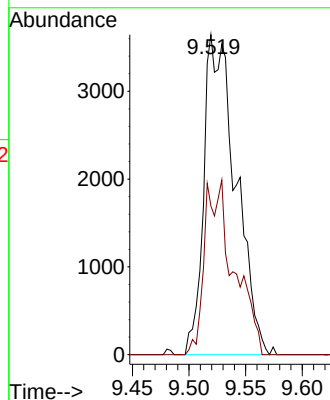
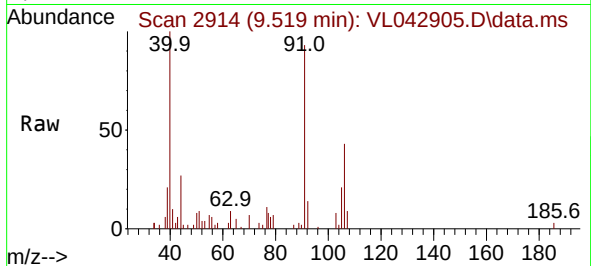
IA-2DUP

Tgt Ion: 91 Resp: 717
 Ion Ratio Lower Upper
 91 100
 106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#60

o-Xylene

Concen: 0.112 ppbv

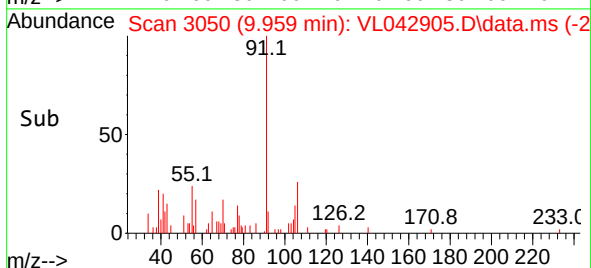
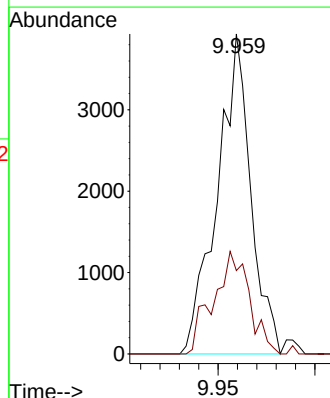
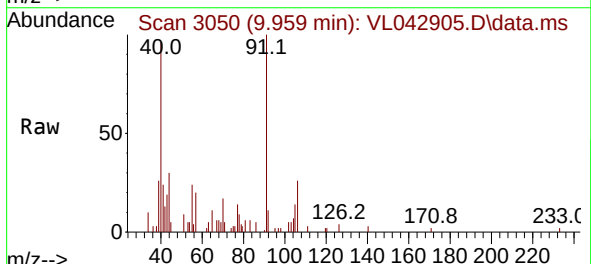
RT: 9.959 min Scan# 3050

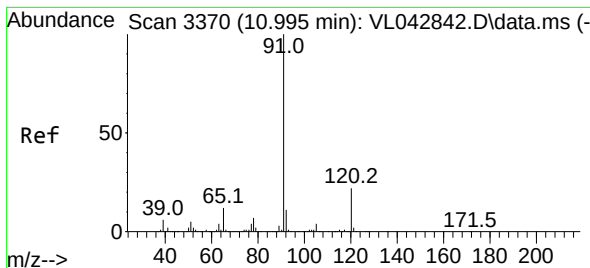
Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 4723
 Ion Ratio Lower Upper
 91 100
 106 35.0 21.8 65.4





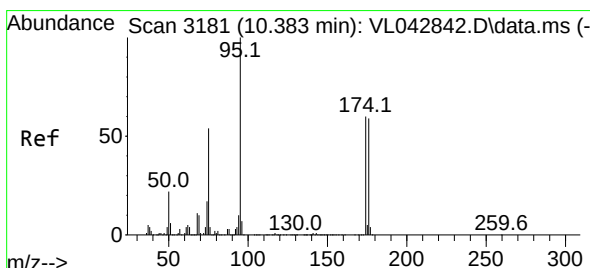
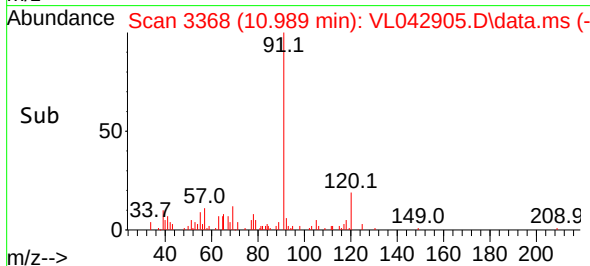
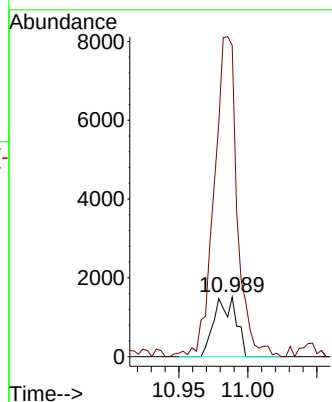
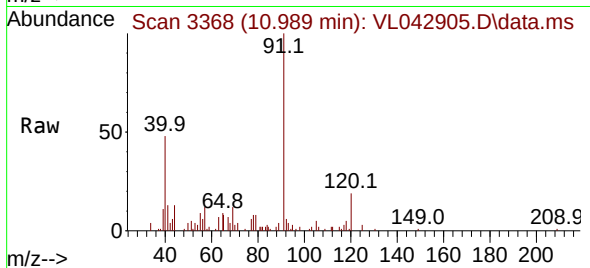
#64
n-propylbenzene
Concen: 0.105 ppbv m
RT: 10.989 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:120 Resp: 165
Ion Ratio Lower Upper
120 100
91 573.7 375.8 563.6

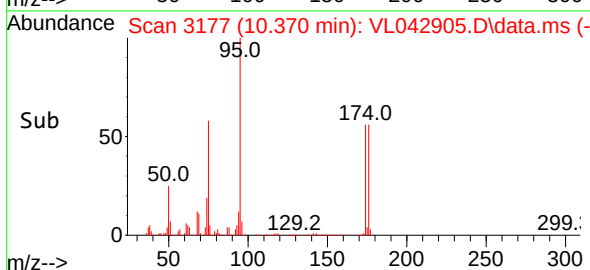
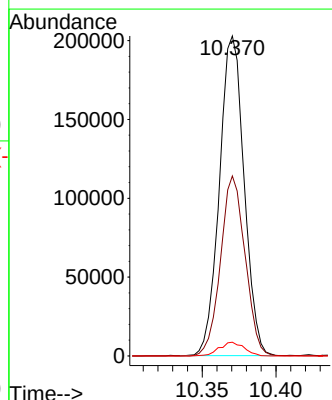
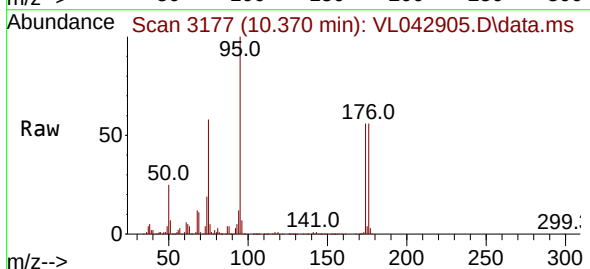
Manual Integrations
APPROVED

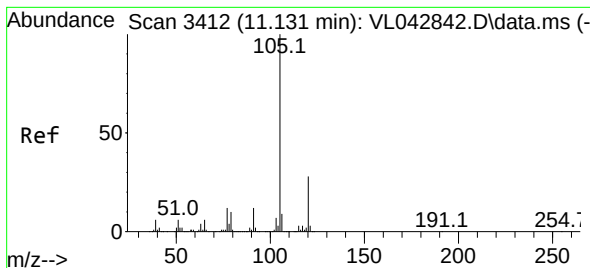
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.380 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 95 Resp: 235889
Ion Ratio Lower Upper
95 100
174 56.1 48.4 72.6
175 4.4 3.8 5.8





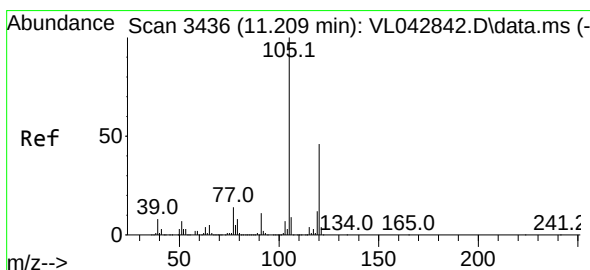
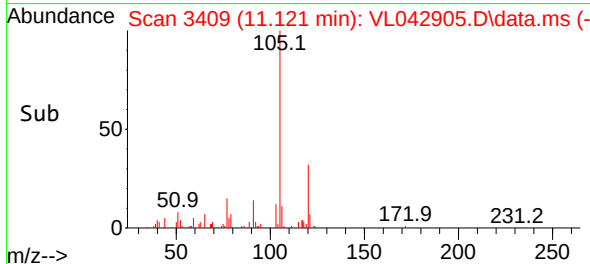
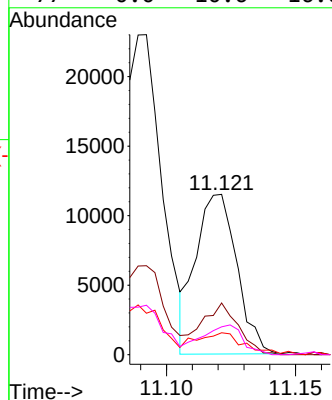
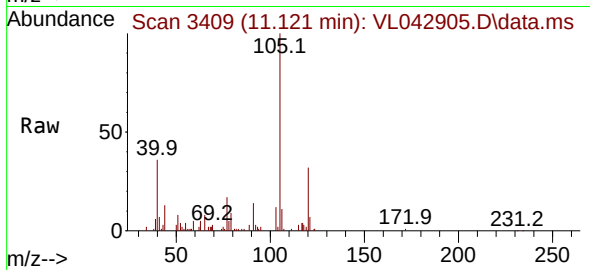
#72
4-Ethyltoluene
Concen: 0.248 ppbv
RT: 11.121 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:105 Resp: 1269
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2
91 0.0 9.8 14.6
77 0.0 10.6 16.0

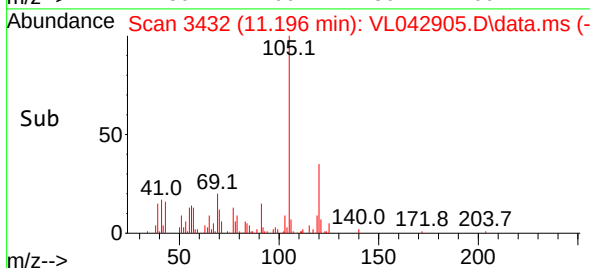
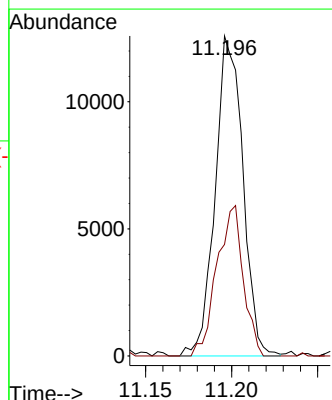
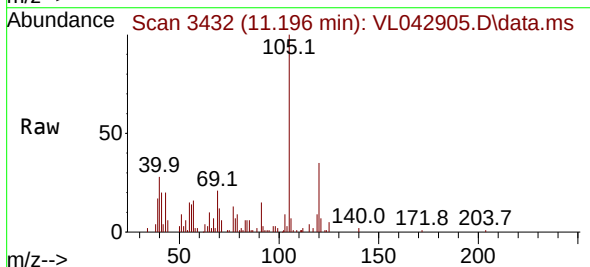
Manual Integrations
APPROVED

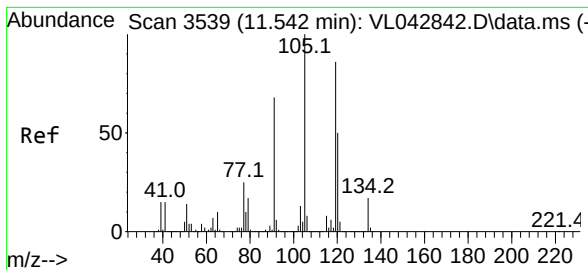
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.324 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

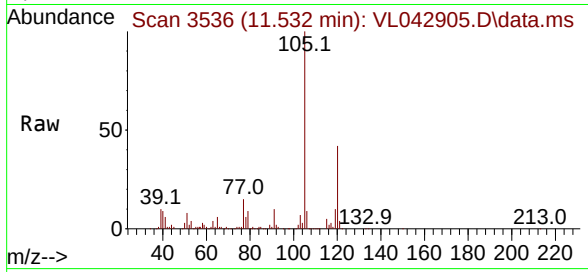
Tgt Ion:105 Resp: 14080
Ion Ratio Lower Upper
105 100
120 34.8 36.6 54.8





#74
 1,2,4-Trimethylbenzene
 Concen: 1.124 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. 0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

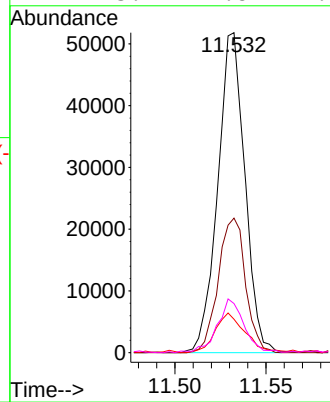
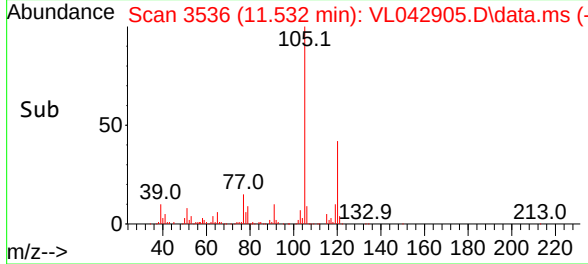
Instrument : MSVOA_L
 ClientSampleId : IA-2DUP



Tgt Ion:	105	Resp:	53630
Ion	Ratio	Lower	Upper
105	100		
120	42.0	39.8	59.6
91	10.5	54.2	81.4
77	15.2	19.8	29.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	trans-1,2-Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	4-Methyl-2-Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDCCC010	VL042864.D	m/p-Xylene	SAM	8/14/2025 7:47:54 AM	MMDadoda	8/18/2025 8:43:18 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:

VL081325

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	vl090825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042900.D	m/p-Xylene	sam	9/9/2025 12:26:34 PM	MMDadoda	9/11/2025 5:28:20 PM	Peak Integrated by Software
VL0908ABS01	VL042902.D	m/p-Xylene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software
VL0908ABS01	VL042902.D	Propene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Benzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	m/p-Xylene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Methyl Methacrylate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	n-propylbenzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Propene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Tetrahydrofuran	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Toluene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Trichlorofluoromethane	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Vinyl Acetate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3038-01	VL042906.D	Trichloroethene	sam	9/9/2025 12:31:51 PM	MMDadoda	9/11/2025 5:25:29 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

vi090825

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VL042841.D	13 Aug 2025 07:45	SY/MD	Ok
2	VSTDICCC010	VL042842.D	13 Aug 2025 08:30	SY/MD	Ok,M
3	VSTDICCC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICCC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICCC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICCC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICCC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICCC015	VL042848.D	13 Aug 2025 12:06	SY/MD	Ok,M
9	VSTDICV010	VL042849.D	13 Aug 2025 12:56	SY/MD	Ok,M
10	VL0813ABL01	VL042850.D	13 Aug 2025 13:46	SY/MD	Ok
11	VL0813ABS01	VL042851.D	13 Aug 2025 14:32	SY/MD	Ok,M
12	Q2727-01DL2	VL042852.D	13 Aug 2025 15:10	SY/MD	Ok
13	Q2126-14 0.1 PPB LOQ	VL042853.D	13 Aug 2025 15:49	SY/MD	Ok,M
14	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27	SY/MD	Ok
15	Q2794-01	VL042855.D	13 Aug 2025 17:05	SY/MD	Dilution
16	Q2794-01DUP	VL042856.D	13 Aug 2025 17:43	SY/MD	Ok,M
17	Q2794-01DL	VL042857.D	13 Aug 2025 18:21	SY/MD	Ok,M
18	Q2794-02	VL042858.D	13 Aug 2025 18:58	SY/MD	Ok,M
19	Q2794-02DL	VL042859.D	13 Aug 2025 19:35	SY/MD	Not Ok
20	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12	SY/MD	Ok
21	Q2834-01	VL042861.D	13 Aug 2025 20:49	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2834-02	VL042862.D	13 Aug 2025 21:26	SY/MD	Ok,M
23	Q2834-02DL	VL042863.D	13 Aug 2025 22:02	SY/MD	Not Ok
24	VSTDCCC010	VL042864.D	13 Aug 2025 22:39	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Maresh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042899.D	08 Sep 2025 08:41	SY/MD	Ok
2	VSTDCCC010	VL042900.D	08 Sep 2025 11:05	SY/MD	Ok,M
3	VL0908ABL01	VL042901.D	08 Sep 2025 11:55	SY/MD	Ok
4	VL0908ABS01	VL042902.D	08 Sep 2025 13:35	SY/MD	Ok,M
5	Q3038-01	VL042903.D	08 Sep 2025 14:19	SY/MD	Not Ok
6	Q3037-01	VL042904.D	08 Sep 2025 15:15	SY/MD	Ok,M
7	Q3037-01DUP	VL042905.D	08 Sep 2025 15:59	SY/MD	Ok,M
8	Q3038-01	VL042906.D	08 Sep 2025 16:33	SY/MD	Ok,M
9	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09	SY/MD	Ok
10	Q3052-03	VL042908.D	08 Sep 2025 17:45	SY/MD	Dilution
11	Q3052-04	VL042909.D	08 Sep 2025 18:21	SY/MD	Ok,M
12	Q3052-01	VL042910.D	08 Sep 2025 18:56	SY/MD	Dilution
13	Q3052-02	VL042911.D	08 Sep 2025 19:31	SY/MD	Not Ok
14	VIBLK	VL042912.D	08 Sep 2025 20:33	SY/MD	Ok
15	Q3052-03DL	VL042913.D	08 Sep 2025 21:08	SY/MD	Ok,M
16	Q3052-04DUP	VL042914.D	08 Sep 2025 21:45	SY/MD	Ok,M
17	Q3052-02DL	VL042915.D	08 Sep 2025 22:20	SY/MD	Not Ok
18	Q3052-02	VL042916.D	08 Sep 2025 22:55	SY/MD	Not Ok
19	Q3052-02	VL042917.D	09 Sep 2025 07:48	SY/MD	Not Ok
20	Q3052-01DL	VL042918.D	09 Sep 2025 08:22	SY/MD	Ok,M
21	Q3052-02	VL042919.D	09 Sep 2025 08:57	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL081325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2655
Initial Calibration Stds	AP2650,AP2652,AP2653
CCC	AP2650
Internal Standard/PEM	AP2655
ICV/I.BLK	AP2654
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042841.D	13 Aug 2025 07:45		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042842.D	13 Aug 2025 08:30		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042843.D	13 Aug 2025 09:06		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042844.D	13 Aug 2025 09:41		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042845.D	13 Aug 2025 10:17		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042846.D	13 Aug 2025 10:53		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042847.D	13 Aug 2025 11:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042848.D	13 Aug 2025 12:06		SY/MD	Ok,M
9	VSTDICV010	ICVVL081325	VL042849.D	13 Aug 2025 12:56		SY/MD	Ok,M
10	VL0813ABL01	VL0813ABL01	VL042850.D	13 Aug 2025 13:46		SY/MD	Ok
11	VL0813ABS01	VL0813ABS01	VL042851.D	13 Aug 2025 14:32		SY/MD	Ok,M
12	Q2727-01DL2	AE073-1100DL2	VL042852.D	13 Aug 2025 15:10		SY/MD	Ok
13	Q2126-14 0.1 PPB LOC	LOQ-AIR-02-QT2-2025	VL042853.D	13 Aug 2025 15:49		SY/MD	Ok,M
14	QC080725 CAN10282	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27		SY/MD	Ok
15	Q2794-01	IA1	VL042855.D	13 Aug 2025 17:05	Need 10X	SY/MD	Dilution
16	Q2794-01DUP	IA1DUP	VL042856.D	13 Aug 2025 17:43		SY/MD	Ok,M
17	Q2794-01DL	IA1DL	VL042857.D	13 Aug 2025 18:21		SY/MD	Ok,M
18	Q2794-02	OA1	VL042858.D	13 Aug 2025 18:58		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2794-02DL	OA1DL	VL042859.D	13 Aug 2025 19:35	Not Required	SY/MD	Not Ok
20	QC081125 CAN 10280	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12		SY/MD	Ok
21	Q2834-01	IA1	VL042861.D	13 Aug 2025 20:49		SY/MD	Ok,M
22	Q2834-02	SV1	VL042862.D	13 Aug 2025 21:26		SY/MD	Ok,M
23	Q2834-02DL	SV1DL	VL042863.D	13 Aug 2025 22:02	Not Required	SY/MD	Not Ok
24	VSTDCCC010	VSTDCCC010EC	VL042864.D	13 Aug 2025 22:39		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042899.D	08 Sep 2025 08:41		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042900.D	08 Sep 2025 11:05		SY/MD	Ok,M
3	VL0908ABL01	VL0908ABL01	VL042901.D	08 Sep 2025 11:55		SY/MD	Ok
4	VL0908ABS01	VL0908ABS01	VL042902.D	08 Sep 2025 13:35		SY/MD	Ok,M
5	Q3038-01	SV-1	VL042903.D	08 Sep 2025 14:19	Not required	SY/MD	Not Ok
6	Q3037-01	IA-2	VL042904.D	08 Sep 2025 15:15		SY/MD	Ok,M
7	Q3037-01DUP	IA-2DUP	VL042905.D	08 Sep 2025 15:59		SY/MD	Ok,M
8	Q3038-01	SV-1	VL042906.D	08 Sep 2025 16:33		SY/MD	Ok,M
9	QC090425 CAN 10158	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09		SY/MD	Ok
10	Q3052-03	IA1	VL042908.D	08 Sep 2025 17:45	Need 20X	SY/MD	Dilution
11	Q3052-04	OA1	VL042909.D	08 Sep 2025 18:21		SY/MD	Ok,M
12	Q3052-01	SV1	VL042910.D	08 Sep 2025 18:56	Need 200X	SY/MD	Dilution
13	Q3052-02	SV2	VL042911.D	08 Sep 2025 19:31	Not required	SY/MD	Not Ok
14	VIBLK	VIBLK	VL042912.D	08 Sep 2025 20:33		SY/MD	Ok
15	Q3052-03DL	IA1DL	VL042913.D	08 Sep 2025 21:08		SY/MD	Ok,M
16	Q3052-04DUP	OA1DUP	VL042914.D	08 Sep 2025 21:45		SY/MD	Ok,M
17	Q3052-02DL	SV2DL	VL042915.D	08 Sep 2025 22:20	Not match	SY/MD	Not Ok
18	Q3052-02	SV2	VL042916.D	08 Sep 2025 22:55	Not required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2655
Initial Calibration Stds	AP2650,AP2652,AP2653
CCC	AP2650
Internal Standard/PEM	AP2655
ICV/I.BLK	AP2654
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3052-02	SV2	VL042917.D	09 Sep 2025 07:48	Not required	SY/MD	Not Ok
20	Q3052-01DL	SV1DL	VL042918.D	09 Sep 2025 08:22		SY/MD	Ok,M
21	Q3052-02	SV2	VL042919.D	09 Sep 2025 08:57	Need 60X,out of tune time	SY/MD	Not Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3038

Test : VOCMS Group2

Prepbatch ID :

Sequence ID/Qc Batch ID: vl090825,

Standard ID :

AP2650,AP2652,AP2653,AP2654,AP2655,

Chemical ID :

A1117,A1138,A1139,A1140,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2650	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1140 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2652	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2650 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2653	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/20/2025								

FROM 29.00000psi of A1117 + 1.00000psi of AP2650 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2654	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/20/2025								

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1139 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2655	08/13/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/20/2025
<u>FROM</u> 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi								

CHEMICAL RECEIPT LOG BOOK

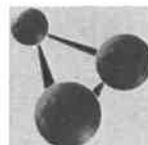
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	12/16/2025	07/15/2025 / SAM	07/14/2025 / SAM	A1138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003AR	04/16/2026	07/16/2025 / SAM	07/14/2025 / SAM	A1139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003BR	04/16/2026	07/16/2025 / SAM	07/14/2025 / SAM	A1140

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

rec: 07/14/25
A 1138

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 012/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

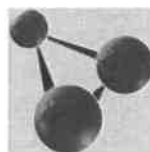
Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Rec 07/14/25

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A 1139

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC315629
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 04/16/2025
Expiration Date: 04/16/2026
Lot Number: 040424-003AR

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003R	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	519 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	537 ppb +/- 50 ppb	
Acrolein	500 ppb	542 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	532 ppb +/- 50 ppb	
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	486 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	492 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	512 ppb +/- 50 ppb	
Bromoform	500 ppb	497 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	506 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	529 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	487 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	509 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	494 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	490 ppb +/- 50 ppb	
Chloroform	500 ppb	495 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	529 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	499 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	496 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	491 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	492 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	518 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	468 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	507 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	486 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	488 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	552 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	499 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	509 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	488 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	493 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	524 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	532 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	529 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	539 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	532 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	501 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	509 ppb +/- 50 ppb	
m-Xylene	500 ppb	495 ppb +/- 50 ppb	
o-Xylene	500 ppb	482 ppb +/- 50 ppb	
p-Xylene	500 ppb	488 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

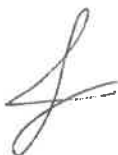
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

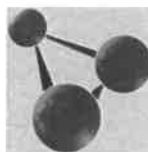
Date: 04/16/2025



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

rev 07/14/25

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1140

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: AD49101
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 04/16/2025
Expiration Date: 04/16/2026
Lot Number: 040424-003BR

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003R	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	460 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	471 ppb +/- 50 ppb	
Acrolein	500 ppb	480 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	476 ppb +/- 50 ppb	
Allyl chloride	500 ppb	453 ppb +/- 50 ppb	
Benzene	500 ppb	431 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	436 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	454 ppb +/- 50 ppb	
Bromoform	500 ppb	441 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	449 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	469 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	432 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	451 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	438 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	438 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	469 ppb +/- 50 ppb	
Cyclohexane	500 ppb	430 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	437 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	454 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	435 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	452 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	438 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	442 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	439 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	435 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	435 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	436 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	460 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	415 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	450 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	431 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	433 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	489 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	442 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	451 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	432 ppb +/- 50 ppb	
n-Heptane	500 ppb	434 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	436 ppb +/- 50 ppb	
2-Hexanone	500 ppb	437 ppb +/- 50 ppb	
n-Hexane	500 ppb	432 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	455 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	465 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	450 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	453 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	442 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	439 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	469 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	430 ppb +/- 50 ppb	
Methylene chloride	500 ppb	443 ppb +/- 50 ppb	
Naphthalene	500 ppb	478 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	452 ppb +/- 50 ppb	
Styrene	500 ppb	432 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	471 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	431 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	434 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	477 ppb +/- 50 ppb	
Toluene	500 ppb	438 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	440 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	440 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	440 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	435 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	453 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	441 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	440 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	444 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	435 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	444 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	450 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	451 ppb +/- 50 ppb	
m-Xylene	500 ppb	439 ppb +/- 50 ppb	
o-Xylene	500 ppb	427 ppb +/- 50 ppb	
p-Xylene	500 ppb	433 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	435 ppb +/- 50 ppb	
Nitrogen	balance	balance	

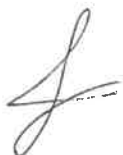
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 04/16/2025



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

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

Order ID : Q3038

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/09/2025	B2508049	Q3038-01	-9.6	10122	1.4 L	10545		C2503006	VL042090.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D



Canister Cleaning

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

Canister Batch : C2503006

Type of Canister : 1.4 L

Cleaning Date : 02/26/2025

Analyst : SAM

Oven Temperature : 125.0 c

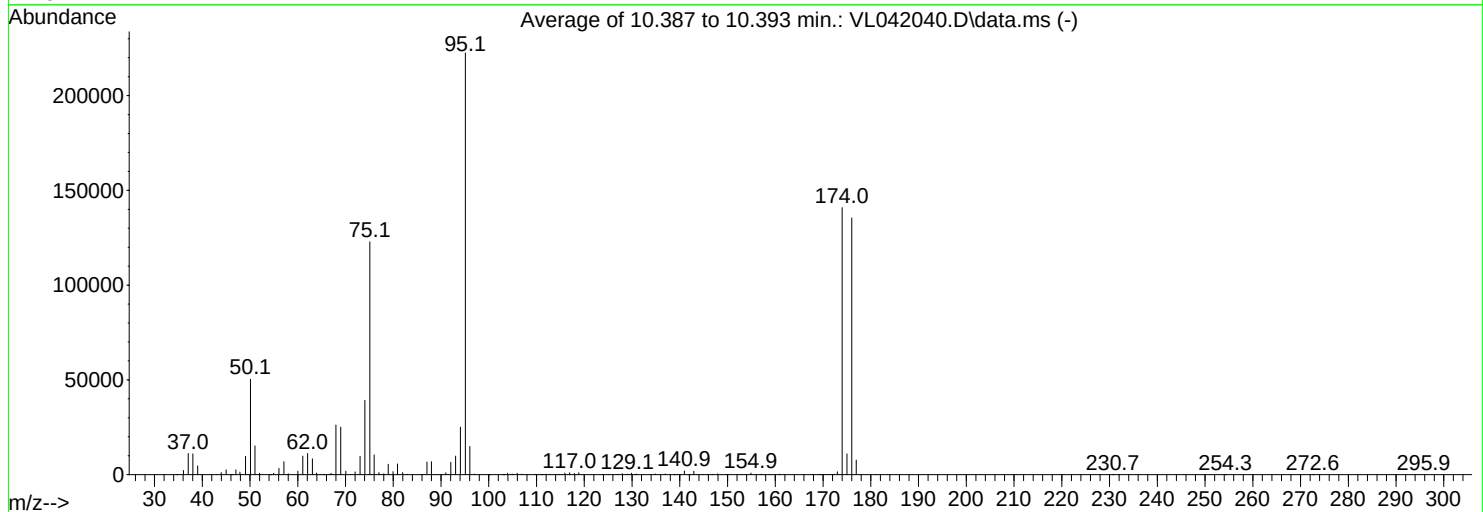
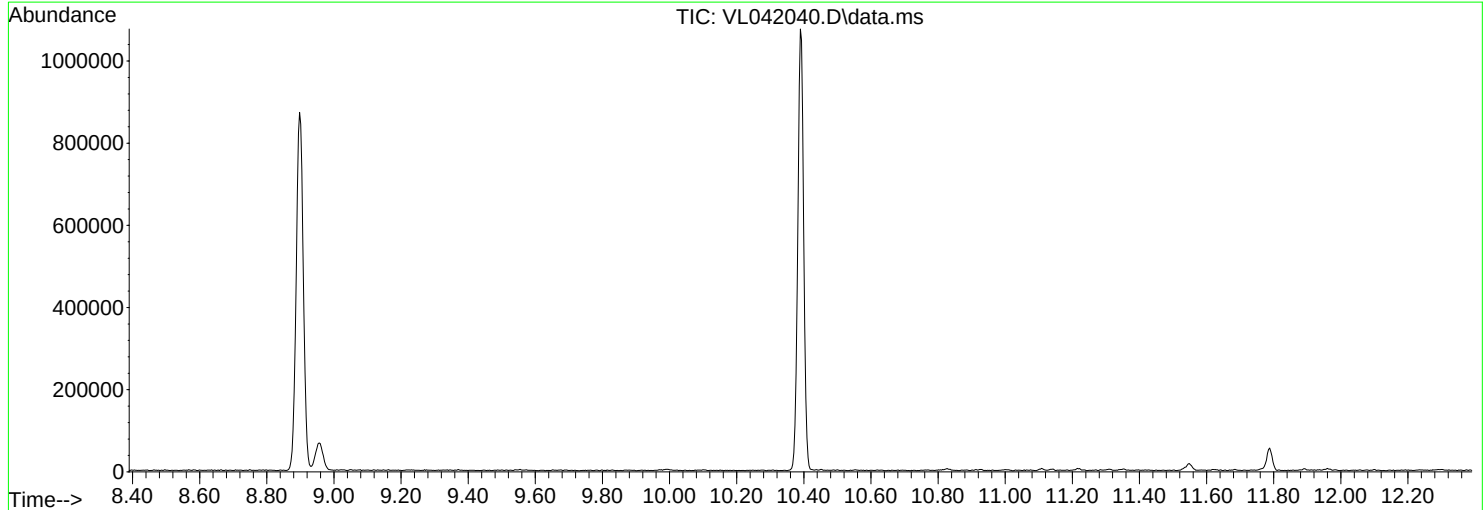
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10747	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10752	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10470	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q3039-02	10746	VL042090.D
10464	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10435	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10123	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1849-04	10746	VL042090.D
10737	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10420	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10743	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10451	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10428	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10423	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10668	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10122	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q3038-01	10746	VL042090.D
10136	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10147	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10674	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10684	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10653	-30	02/26/2025	03/04/2025	-30	02/27/2025		10746	VL042090.D
10746	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1849-23	10746	VL042090.D

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

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

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

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

Method File : VL022525AIR.M

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

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

Response Via : Initial Calibration

Calibration Files

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

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

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

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

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

(#) = Out of Range

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:10:59 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:10:59 2025

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

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

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

Response via : Initial Calibration

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

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

Manual Integrations APPROVED

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:12:18 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:12:18 2025

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

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

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

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:27:35 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:27:35 2025

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

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

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

Response via : Initial Calibration

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

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

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

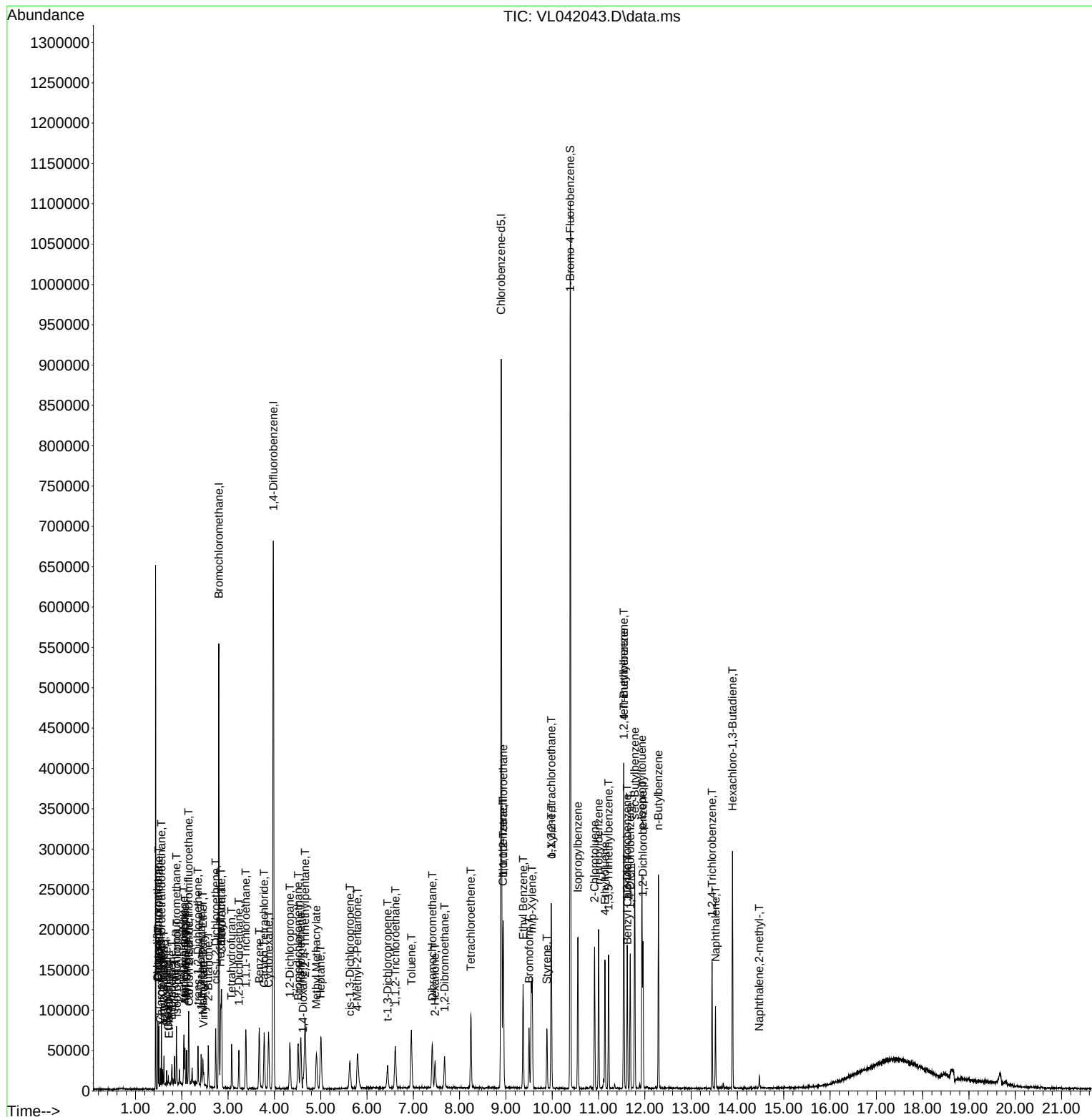
Quant Time: Feb 25 10:27:35 2025

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

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

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

Response via : Initial Calibration



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

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

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 10:56:41 2025

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

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

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

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 12:33:08 2025

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

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

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

Response via : Initial Calibration

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

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

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

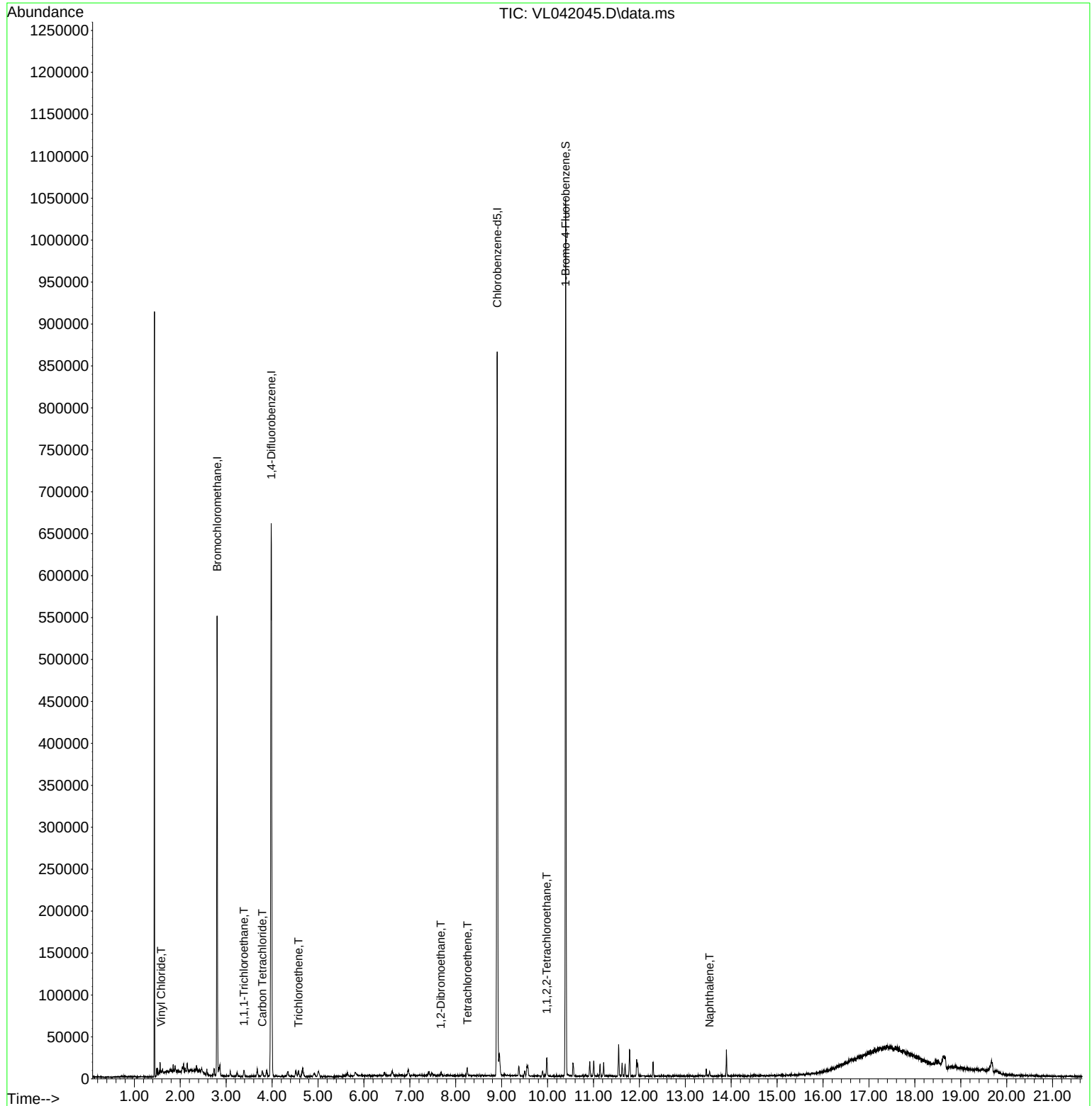
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 12:34:19 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	215	0.017	ppbv	89
32) 1,1,1-Trichloroethane	3.379	97	923m	0.020	ppbv	
35) Carbon Tetrachloride	3.784	117	818m	0.021	ppbv	
38) Trichloroethene	4.577	130	551m	0.027	ppbv	
52) Tetrachloroethene	8.237	164	397m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	1058m	0.027	ppbv	

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

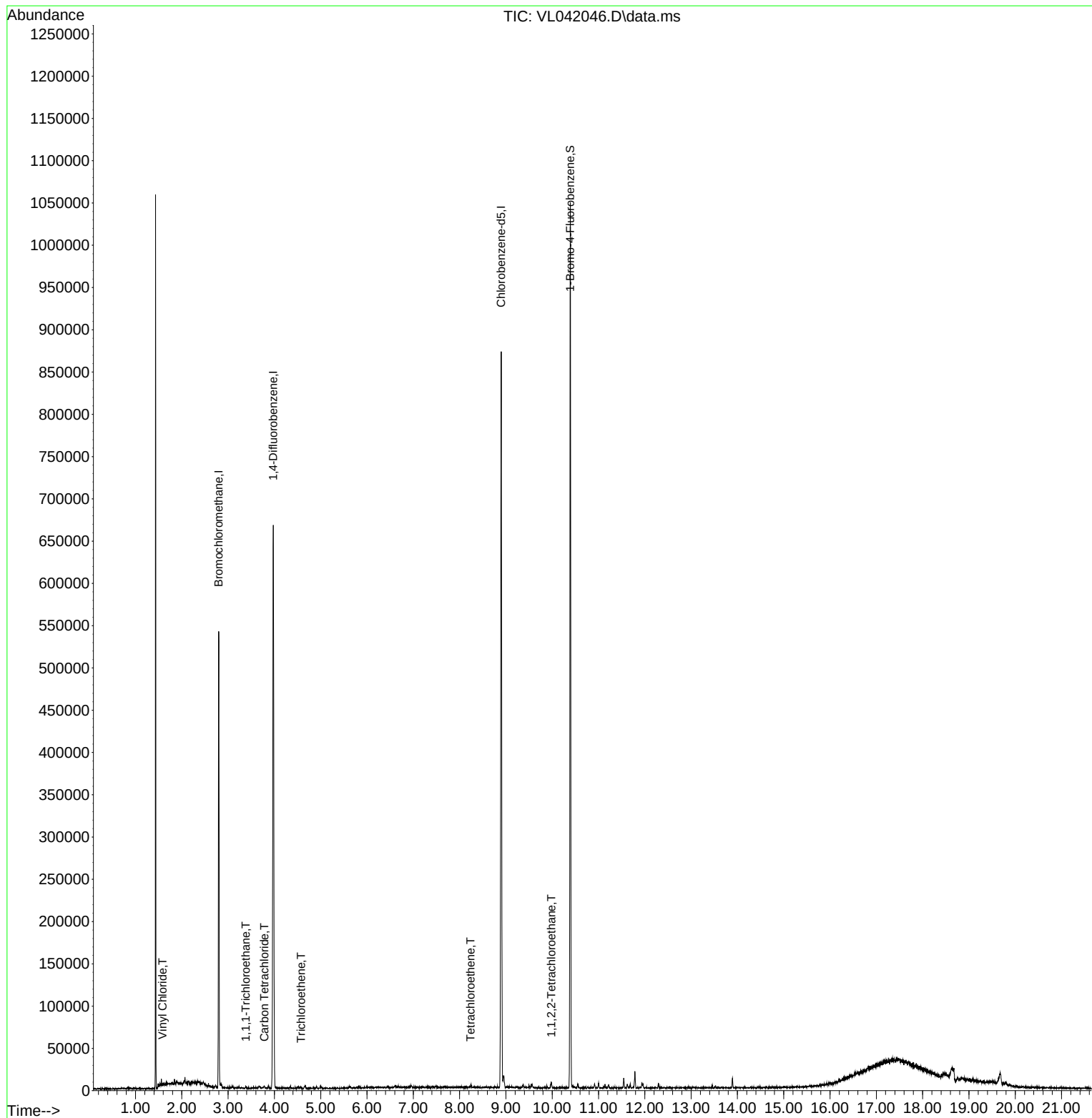
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

Manual Integrations
APPROVED

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 12:35:10 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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

Quant Time: Feb 25 12:35:10 2025

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

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

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

Response via : Initial Calibration

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

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

Manual Integrations APPROVED

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

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

Quant Time: Feb 26 01:31:59 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

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

Quant Time: Feb 26 01:31:59 2025

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

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

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

Response via : Initial Calibration

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

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

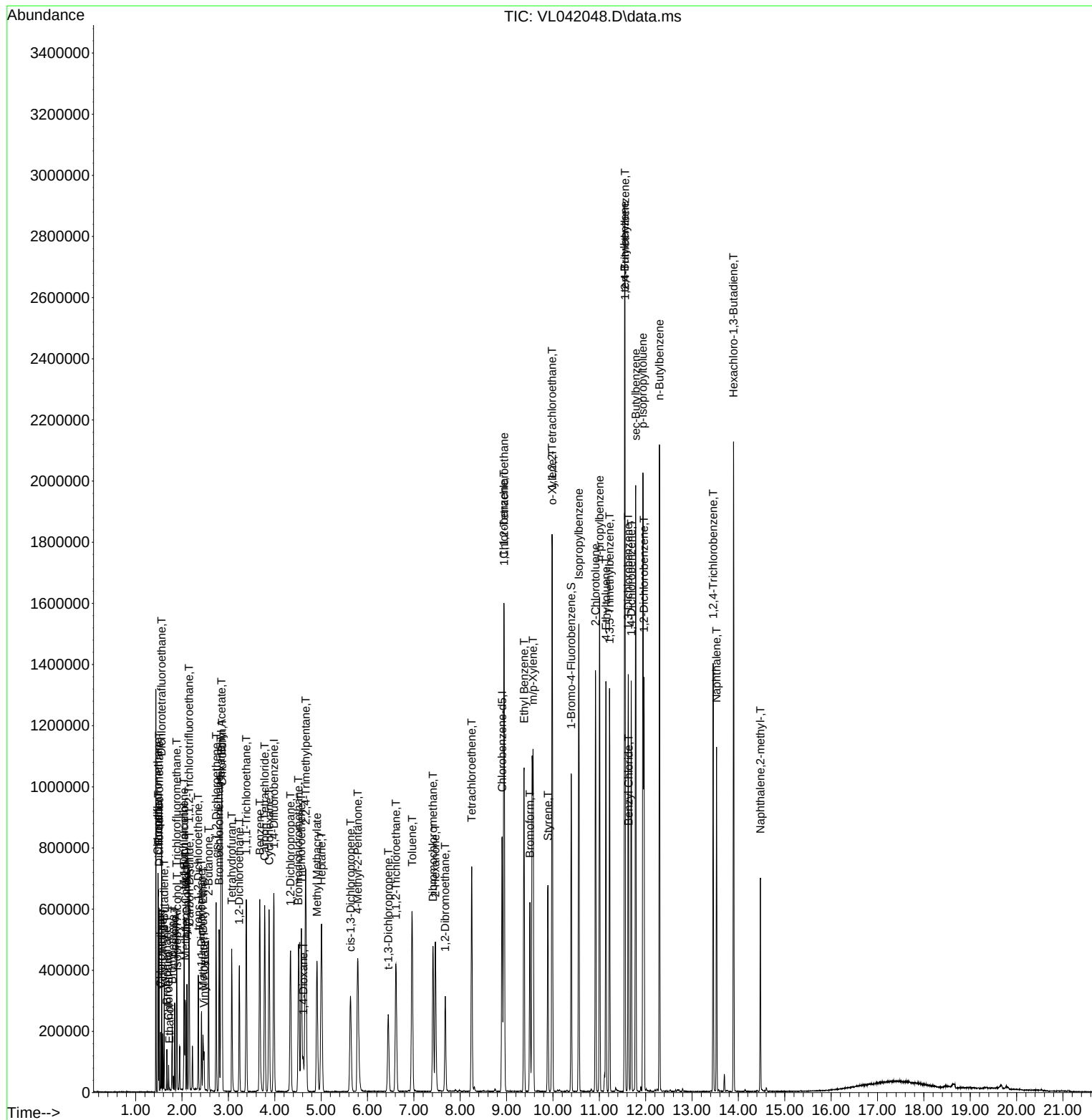
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

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

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

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

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

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

(#) = Out of Range

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

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

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

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

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

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

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

(#) = Out of Range

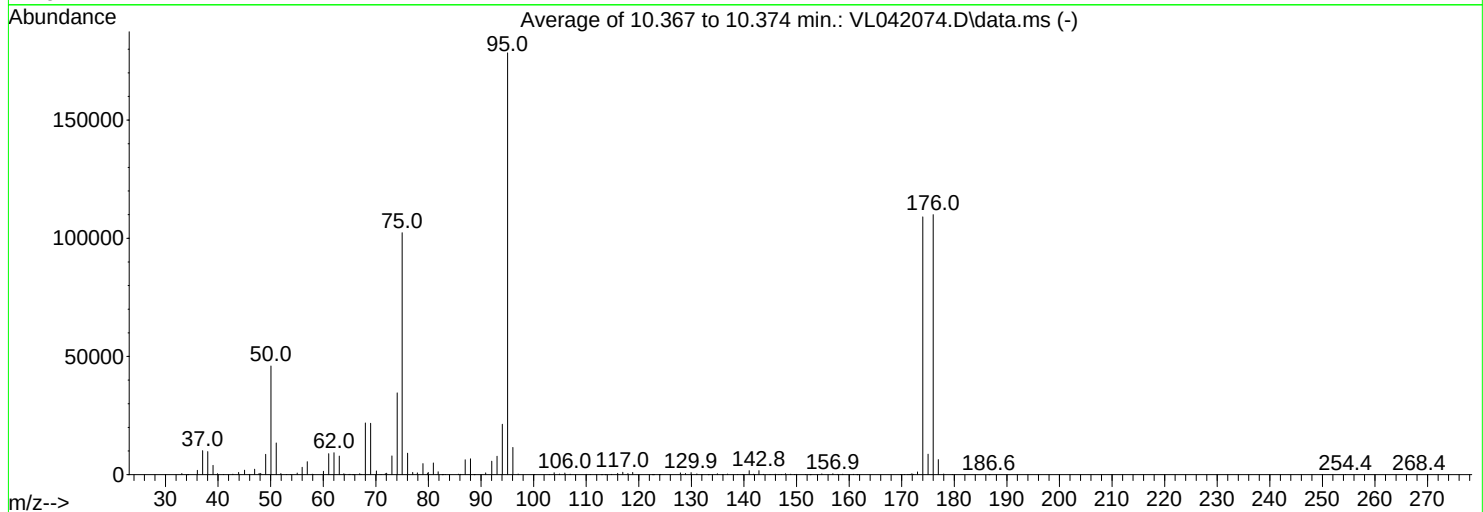
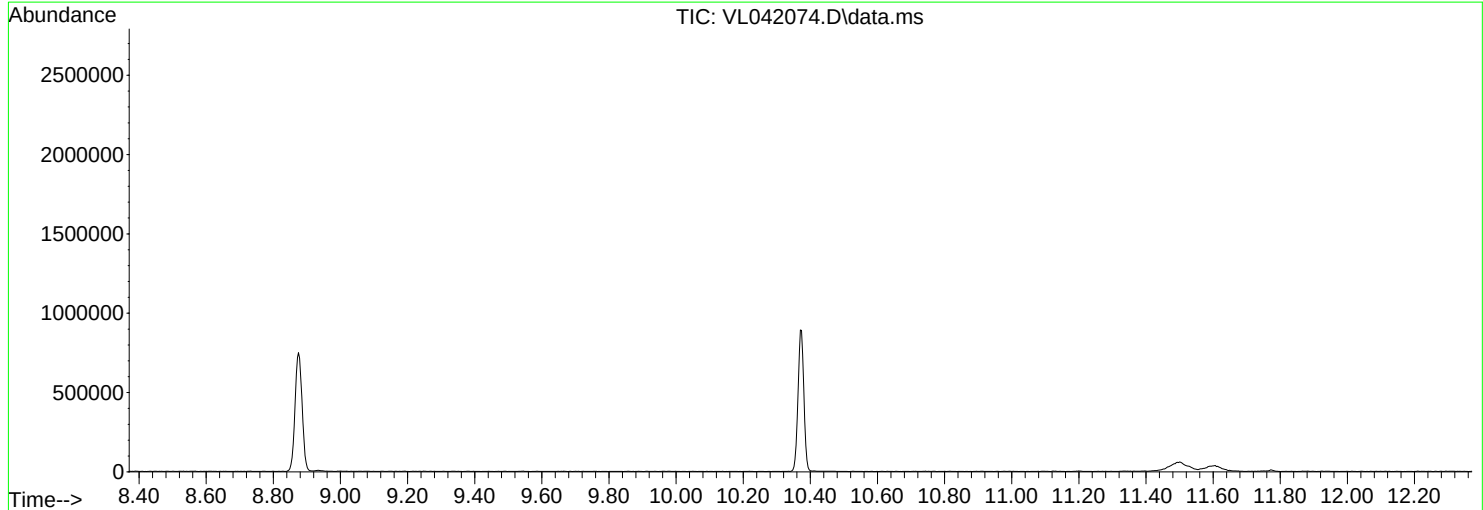
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042074.D
Acq On : 03 Mar 2025 11:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.8	45971	PASS
75	95	30	66	57.4	102347	PASS
95	95	100	100	100.0	178453	PASS
96	95	5	9	6.5	11542	PASS
173	174	0.00	2	1.0	1135	PASS
174	95	50	120	61.1	109091	PASS
175	174	4	9	7.9	8641	PASS
176	174	93	101	100.9	110029	PASS
177	176	5	9	5.8	6386	PASS

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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

Quant Time: Mar 04 00:16:36 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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

Quant Time: Mar 04 00:16:36 2025

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

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

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

Response via : Initial Calibration

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

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

Manual Integrations APPROVED

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



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

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

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

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

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

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

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

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

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042076.D
 Acq On : 03 Mar 2025 14:49
 Operator : SY/MD
 Sample : VL0303ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABL01

Quant Time: Mar 04 00:17:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	156551	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	349743	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	302717	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	224142	9.624	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%

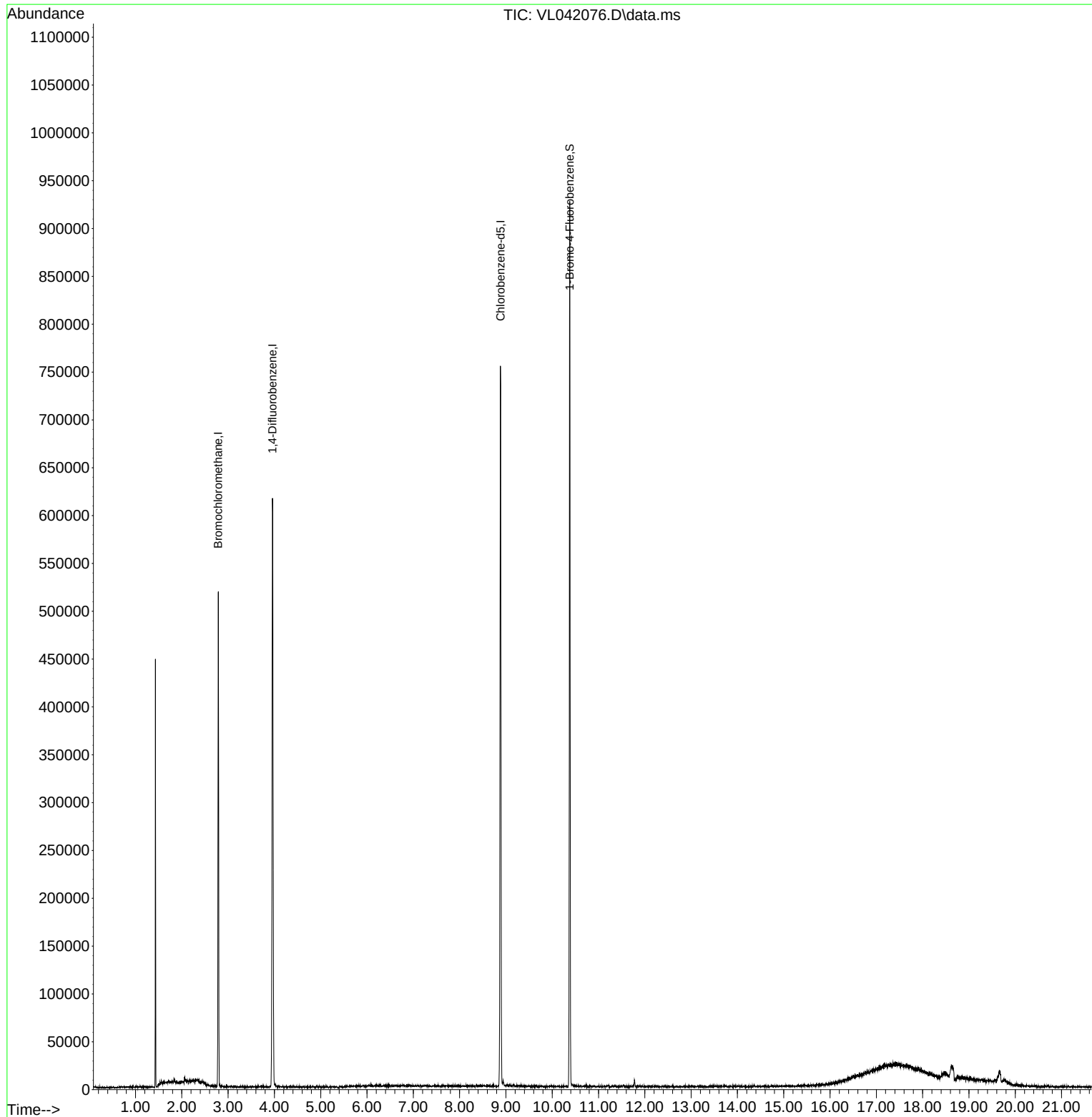
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042076.D
Acq On : 03 Mar 2025 14:49
Operator : SY/MD
Sample : VL0303ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042077.D
 Acq On : 03 Mar 2025 15:19
 Operator : SY/MD
 Sample : VL0303ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

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

Quant Time: Mar 04 00:17:54 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	157956	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	356972	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	309763	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 242622 10.181 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	174930	10.650	ppbv	99
3) Chlorodifluoromethane	1.476	51	222297	9.683	ppbv	100
4) Chloromethane	1.531	50	62156	10.233	ppbv	97
5) Vinyl Chloride	1.580	62	59385	10.336	ppbv	100
6) Bromomethane	1.667	94	28458	10.402	ppbv	97
7) Chloroethane	1.703	64	24205	10.368	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	142918	10.584	ppbv	98
9) Propene	1.483	41	90270	9.652	ppbv	98
10) Heptane	4.978	43	279114	9.585	ppbv	97
11) Trichlorofluoromethane	1.878	101	191850	11.657	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	147601	11.243	ppbv	95
13) Ethanol	1.722	45	3648	6.145	ppbv	97
14) Bromoethene	1.780	108	48227	10.403	ppbv	100
15) Acetone	1.835	43	137515	9.858	ppbv	100
16) 1,3-Butadiene	1.609	39	64593	9.950	ppbv	97
17) tert-Butyl alcohol	2.039	59	167124	9.576	ppbv	100
18) 1,1-Dichloroethene	2.033	96	61659	10.394	ppbv	91
19) Isopropyl Alcohol	1.887	45	78936	9.851	ppbv	98
20) Methylene Chloride	2.062	84	52065	9.868	ppbv	96
21) Allyl Chloride	2.098	41	105683	10.486	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	70753	10.232	ppbv	93
23) Vinyl Acetate	2.463	43	74937	7.640	ppbv	98
24) 1,1-Dichloroethane	2.408	63	137183	10.661	ppbv	100
25) Ethyl Acetate	2.836	43	548497	9.824	ppbv	99
26) Hexane	2.826	57	207965	9.213	ppbv	92
27) Carbon Disulfide	2.149	76	168252	10.996	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	94112	8.374	ppbv	100
29) Chloroform	2.849	83	286765	9.439	ppbv	97
30) Cyclohexane	3.858	84	163145	8.905	ppbv	91
31) cis-1,2-Dichloroethene	2.722	61	199200	9.322	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	269140	9.133	ppbv	95
34) 2-Butanone	2.557	43	313084	11.258	ppbv	95
35) Carbon Tetrachloride	3.765	117	268731	10.917	ppbv	96
36) Benzene	3.658	78	390842	10.459	ppbv	96
37) 1,2-Dichloroethane	3.218	62	227067	10.959	ppbv	98
38) Trichloroethene	4.551	130	148971	9.762	ppbv	94
39) 1,2-Dichloropropane	4.315	63	151311	10.668	ppbv	96
40) 1,4-Dioxane	4.587	88	67241	10.385	ppbv #	91
41) Tetrahydrofuran	3.056	42	183578	11.172	ppbv	93
42) Bromodichloromethane	4.490	83	302583	10.839	ppbv	100
43) Methyl Methacrylate	4.881	69	150871	10.338	ppbv	91
44) 2,2,4-Trimethylpentane	4.638	57	718377	10.892	ppbv	98
45) t-1,3-Dichloropropene	6.415	75	139814	9.643	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042077.D
 Acq On : 03 Mar 2025 15:19
 Operator : SY/MD
 Sample : VL0303ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

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

Quant Time: Mar 04 00:17:54 2025

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

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

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

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	189075	10.077	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	146747	10.191	ppbv	97
48) Dibromochloromethane	7.390	129	229765	10.188	ppbv	99
49) Bromoform	9.487	173	205188	10.477	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	434273	12.074	ppbv	95
51) 2-Hexanone	7.438	43	347904	14.054	ppbv #	96
52) Tetrachloroethene	8.225	164	128803	10.068	ppbv	97
53) Toluene	6.933	91	428586	10.262	ppbv	97
54) 1,2-Dibromoethane	7.652	107	199250	10.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	181131	10.346	ppbv	99
57) Chlorobenzene	8.924	112	328409	10.225	ppbv	98
58) Ethyl Benzene	9.357	91	596825	10.462	ppbv	100
59) m/p-Xylene	9.552	91	977538m	21.533	ppbv	
60) o-Xylene	9.966	91	488769	10.710	ppbv	100
61) Styrene	9.872	104	226533	10.558	ppbv	99
62) Isopropylbenzene	10.542	105	733758	10.735	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	327069	10.882	ppbv	99
64) n-propylbenzene	10.992	120	192573	10.741	ppbv	97
65) tert-Butylbenzene	11.532	119	643195	10.340	ppbv	98
66) Benzyl Chloride	11.617	91	39375	8.295	ppbv	98
67) sec-Butylbenzene	11.769	105	940060	10.567	ppbv	100
69) p-Isopropyltoluene	11.927	119	759761	10.734	ppbv	100
70) n-Butylbenzene	12.283	91	795433	11.010	ppbv	99
71) 2-Chlorotoluene	10.901	91	553780	10.510	ppbv	99
72) 4-Ethyltoluene	11.128	105	592316	10.629	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	508702	10.524	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	557804	10.248	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	328061	10.473	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	328671	10.568	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	324906	10.688	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	232449	9.827	ppbv	99
79) Naphthalene	13.517	128	503470	13.490	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	184155	18.031	ppbv	97
81) 1,2,4-Trichlorobenzene	13.442	180	227832	10.954	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042090.D
 Acq On : 03 Mar 2025 22:02
 Operator : SY/MD
 Sample : QC022625 CAN 10746
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC022625 CAN 10746

Quant Time: Mar 04 00:24:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	146067	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	315381	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	272704	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	202629	9.658	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%

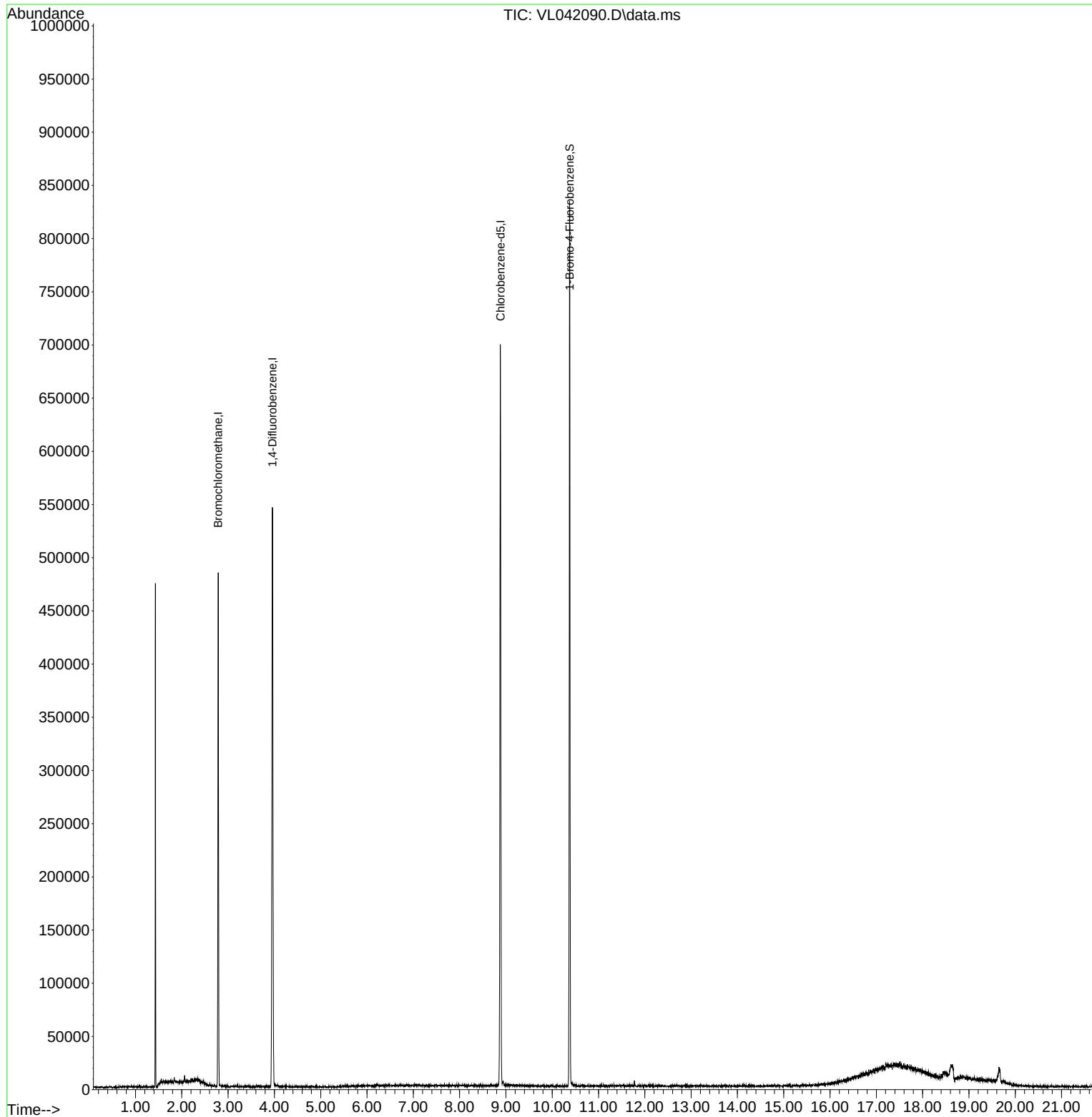
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042090.D
Acq On : 03 Mar 2025 22:02
Operator : SY/MD
Sample : QC022625 CAN 10746
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC022625 CAN 10746

Quant Time: Mar 04 00:24:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICCC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICCC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICCC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICCC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICCC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICCC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL030325

Review By	Semsettin Yesilyurt	Review On	3/4/2025 4:05:35 PM
Supervise By	Maresh Dadoda	Supervise On	3/5/2025 12:17:04 PM
SubDirectory	VL030325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2587		
Initial Calibration Stds	AP2582,AP2584,AP2585		
CCC	AP2582		
Internal Standard/PEM	AP2587		
ICV/I.BLK	AP2586		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042074.D	03 Mar 2025 11:45	SY/MD	Ok
2	VSTDCCC010	VL042075.D	03 Mar 2025 12:15	SY/MD	Ok,M
3	VL0303ABL01	VL042076.D	03 Mar 2025 14:49	SY/MD	Ok
4	VL0303ABS01	VL042077.D	03 Mar 2025 15:19	SY/MD	Ok,M
5	QC022725 CAN 10331	VL042078.D	03 Mar 2025 15:52	SY/MD	Ok
6	Q1430-03	VL042079.D	03 Mar 2025 16:23	SY/MD	Ok,M
7	Q1430-03DL	VL042080.D	03 Mar 2025 16:53	SY/MD	Not Ok
8	Q1430-02	VL042081.D	03 Mar 2025 17:24	SY/MD	Ok,M
9	Q1430-02DL	VL042082.D	03 Mar 2025 17:55	SY/MD	Not Ok
10	Q1430-04	VL042083.D	03 Mar 2025 18:26	SY/MD	Ok,M
11	Q1430-04DL	VL042084.D	03 Mar 2025 18:57	SY/MD	Not Ok
12	Q1430-01	VL042085.D	03 Mar 2025 19:28	SY/MD	Ok,M
13	Q1430-01DL	VL042086.D	03 Mar 2025 19:59	SY/MD	Not Ok
14	Q1430-01DUP	VL042087.D	03 Mar 2025 20:29	SY/MD	Ok,M
15	VIBLK	VL042088.D	03 Mar 2025 21:00	SY/MD	Ok
16	QC022625 CAN 10682	VL042089.D	03 Mar 2025 21:31	SY/MD	Not Ok
17	QC022625 CAN 10746	VL042090.D	03 Mar 2025 22:02	SY/MD	Ok
18	VL0303ABS02	VL042091.D	03 Mar 2025 22:33	SY/MD	Not Ok
19	QC022625 CAN 10682	VL042092.D	04 Mar 2025 08:07	SY/MD	Ok
20	VSTDCCC010	VL042093.D	04 Mar 2025 09:04	SY/MD	Ok,M

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Aug 14 01:45:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	279557	10.064	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

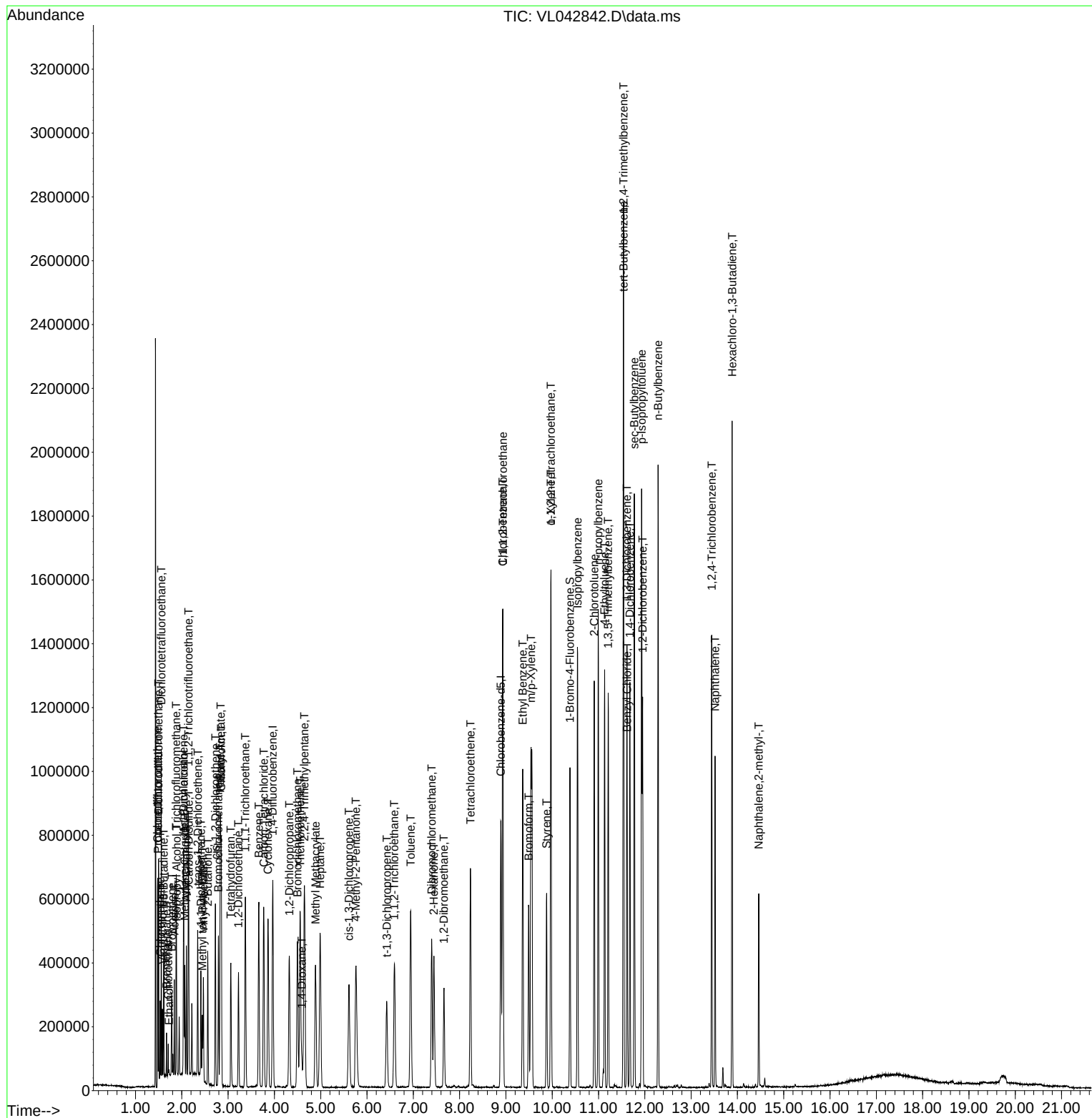
Quant Time: Aug 14 01:45:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

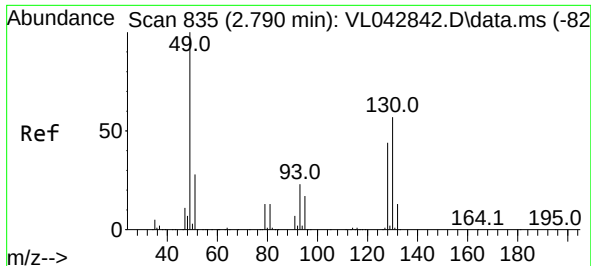
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	539072	10.505	ppbv #	100
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

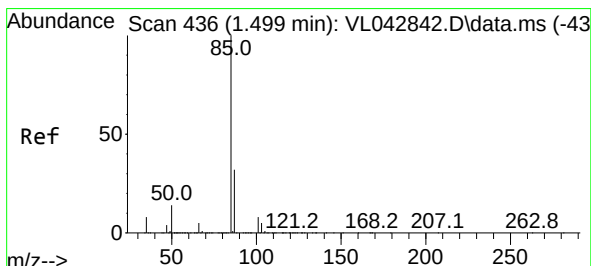
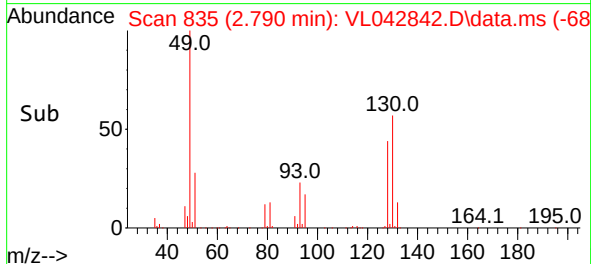
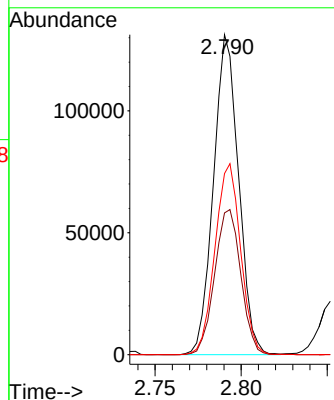
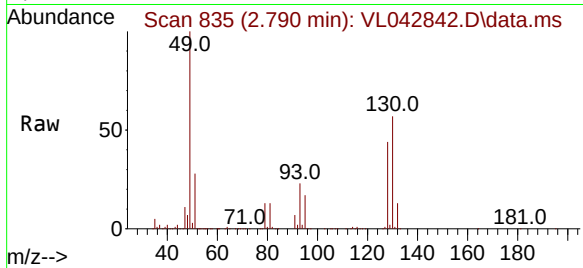




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

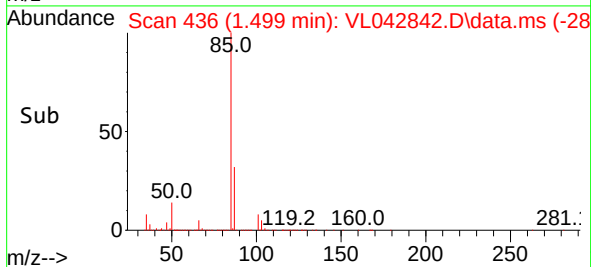
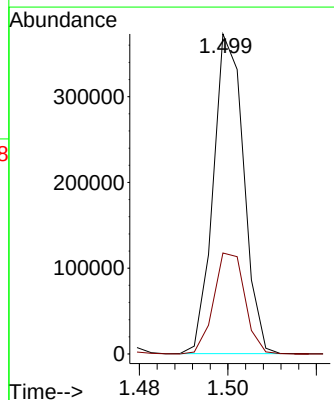
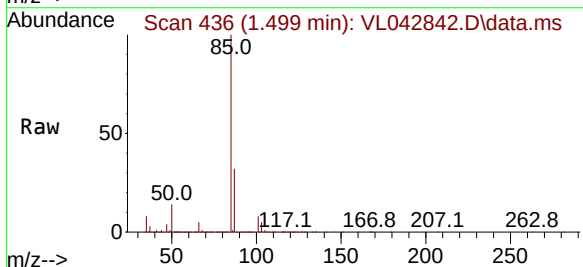
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 ClientSampleId :
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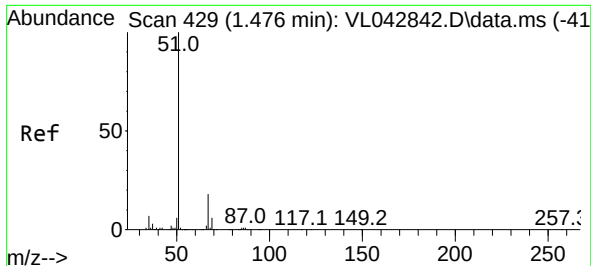
Tgt Ion: 49 Resp: 133104
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.7 71.1
 130 61.1 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 9.166 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 178799
 Ion Ratio Lower Upper
 85 100
 87 31.6 25.3 37.9

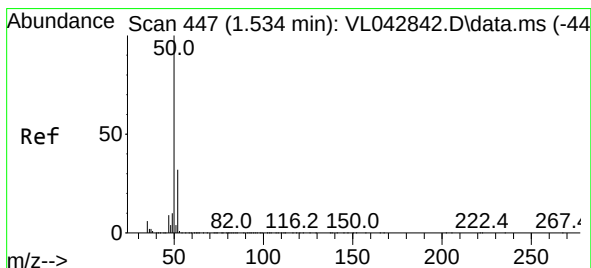
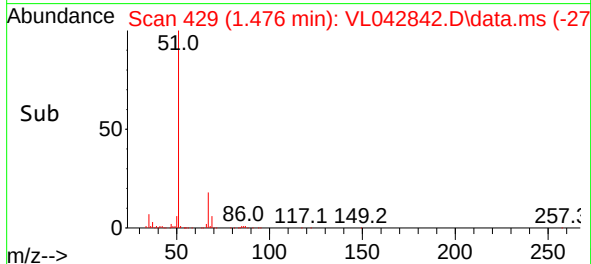
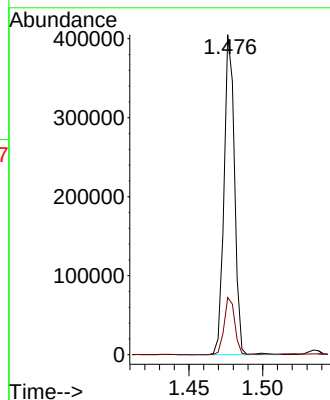
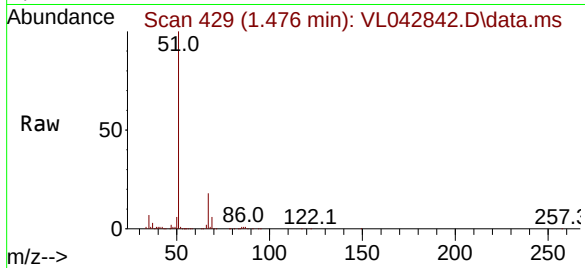




#3
 Chlorodifluoromethane
 Concen: 9.306 ppbv
 RT: 1.476 min Scan# 429
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

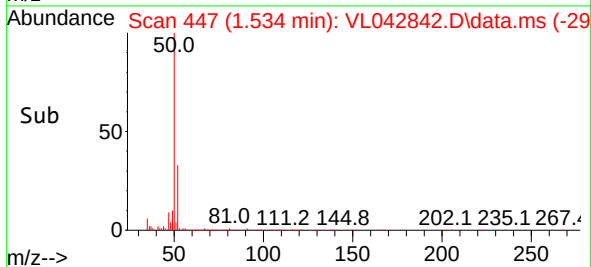
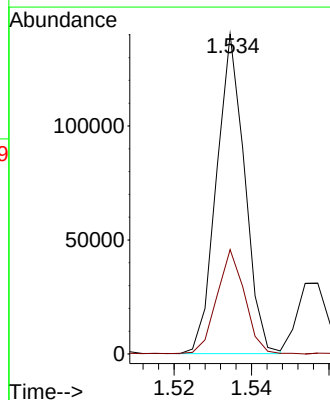
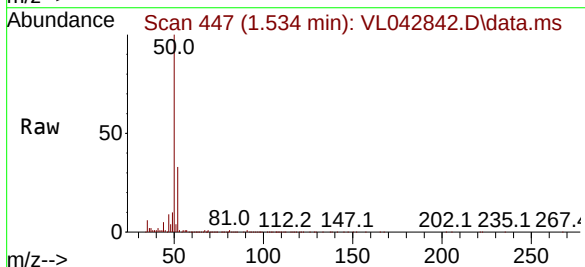
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 ClientSampleId :
 VSTDICCC010

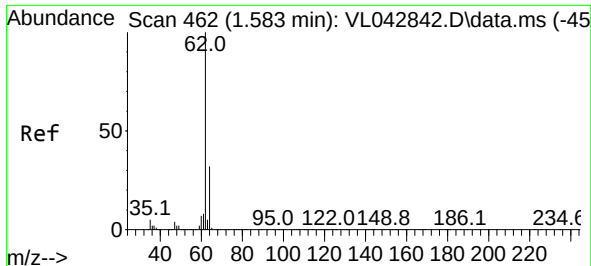
Tgt Ion: 51 Resp: 200866
 Ion Ratio Lower Upper
 51 100
 67 18.6 14.9 22.3



#4
 Chloromethane
 Concen: 9.013 ppbv
 RT: 1.534 min Scan# 447
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 50 Resp: 70952
 Ion Ratio Lower Upper
 50 100
 52 32.4 25.9 38.9

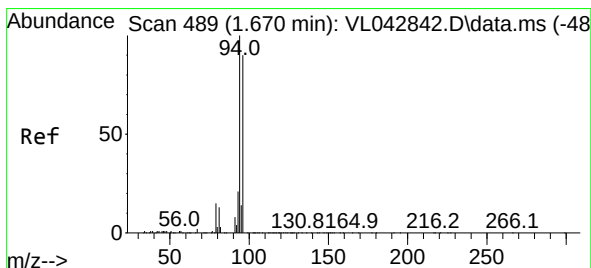
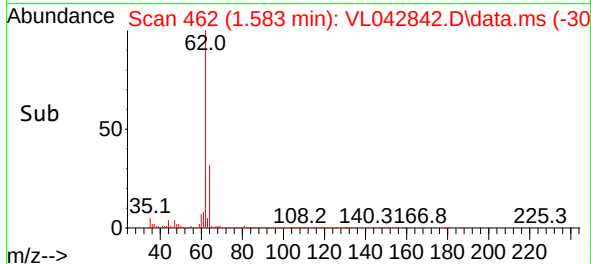
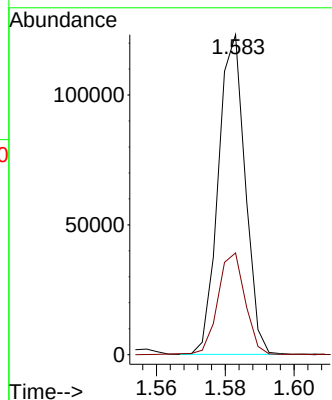
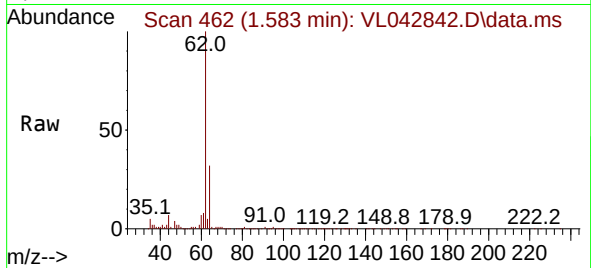




#5
 Vinyl Chloride
 Concen: 8.612 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

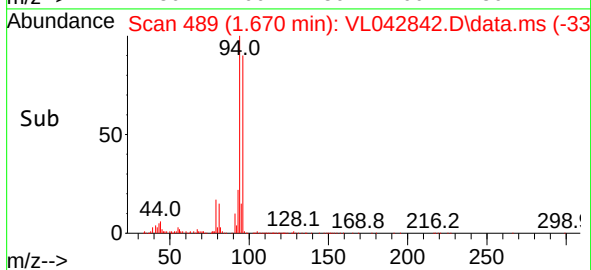
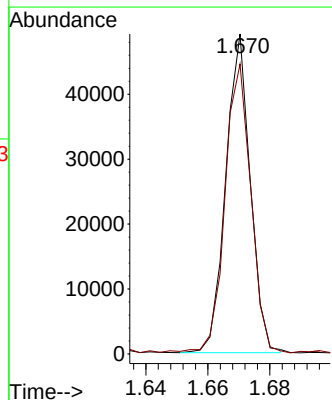
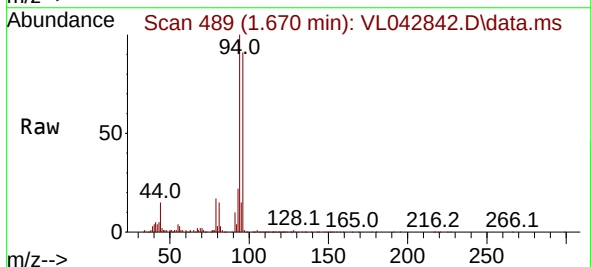
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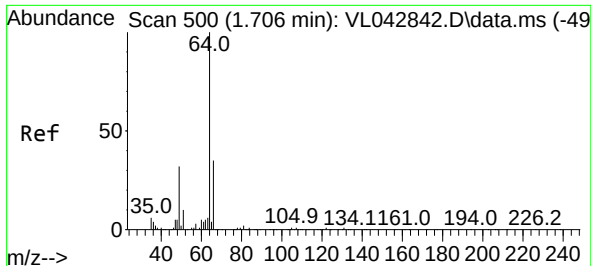
Tgt Ion: 62 Resp: 66768
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2



#6
 Bromomethane
 Concen: 8.698 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 94 Resp: 26964
 Ion Ratio Lower Upper
 94 100
 96 90.1 72.1 108.1

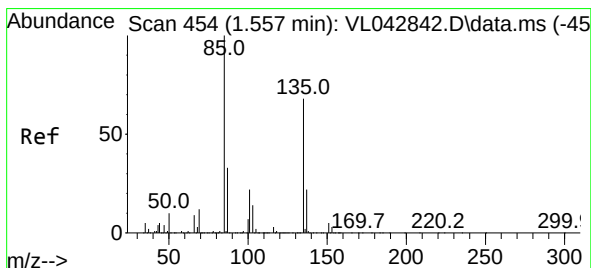
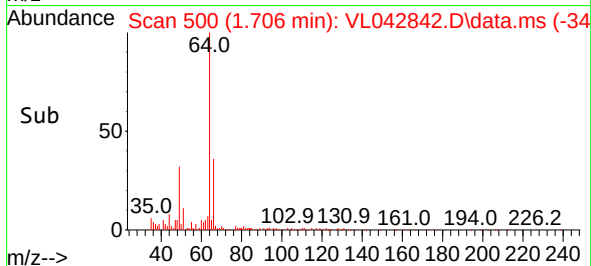
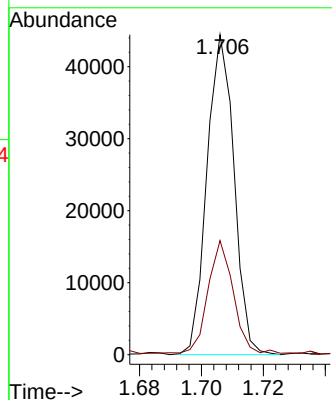
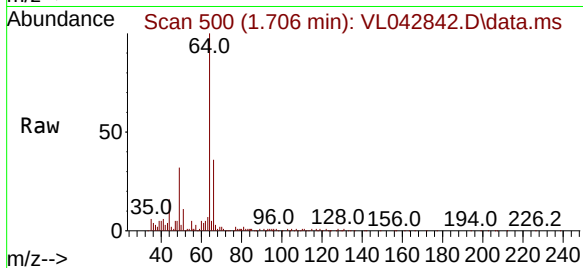




#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

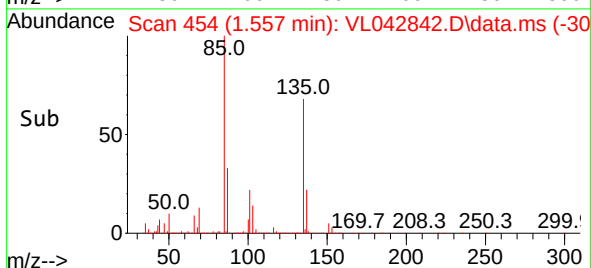
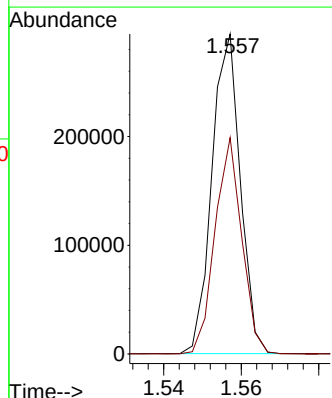
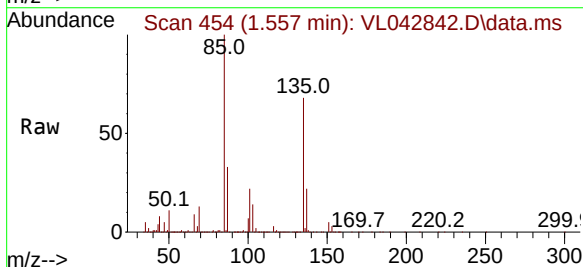
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

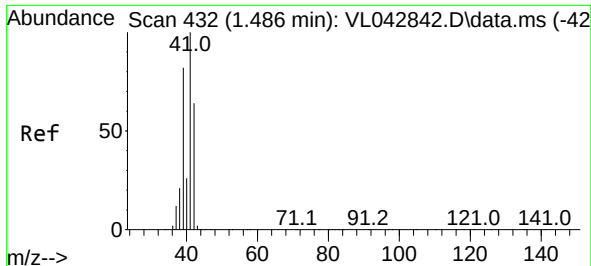
Tgt Ion: 64 Resp: 26884
Ion Ratio Lower Upper
64 100
66 35.7 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 149341
Ion Ratio Lower Upper
85 100
135 64.0 51.2 76.8





#9

Propene

Concen: 9.380 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

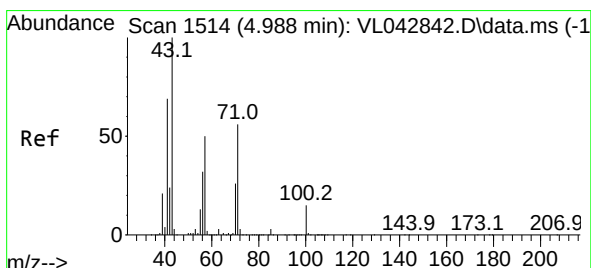
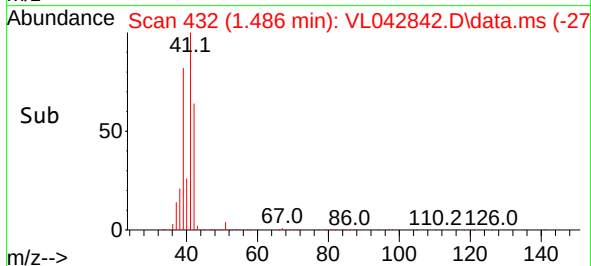
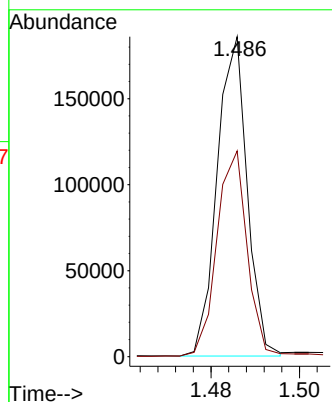
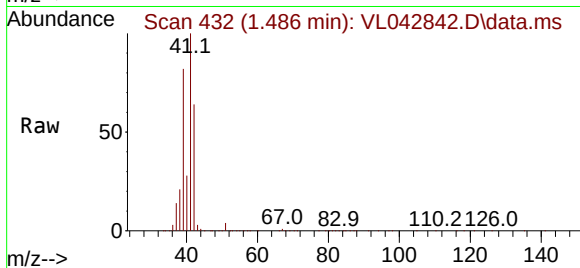
VSTDICCC010

Tgt Ion: 41 Resp: 87352

Ion Ratio Lower Upper

41 100

42 66.2 53.0 79.4



#10

Heptane

Concen: 9.186 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042842.D

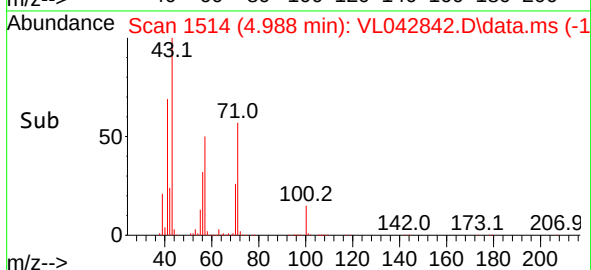
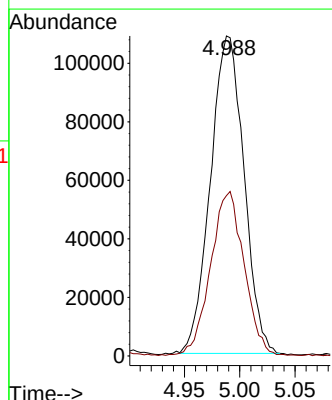
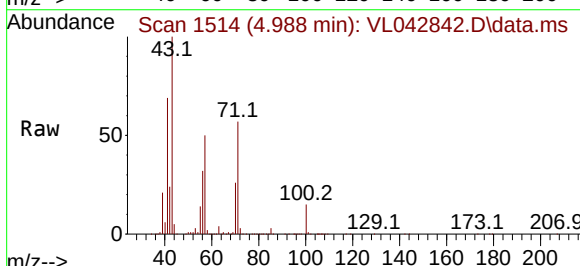
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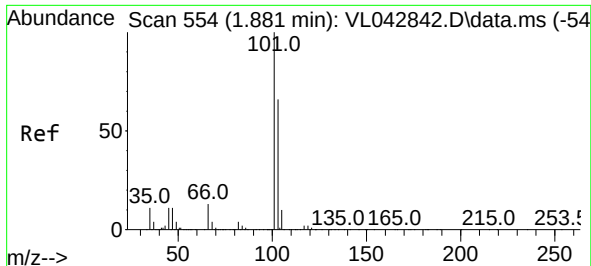
Tgt Ion: 43 Resp: 228679

Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0

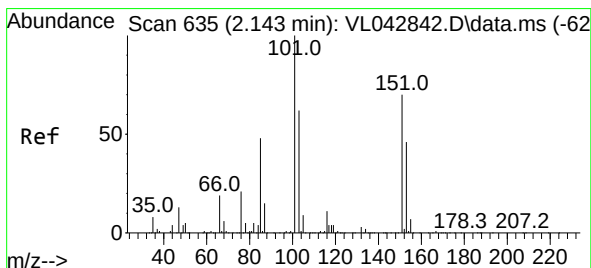
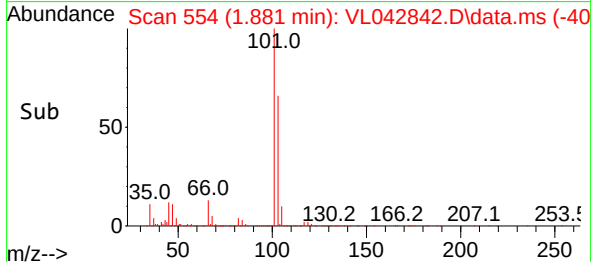
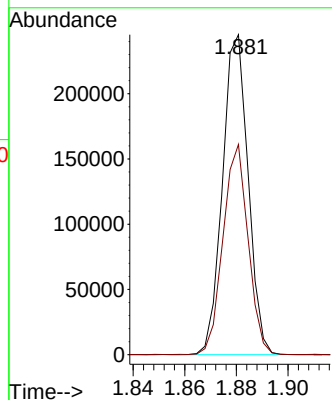
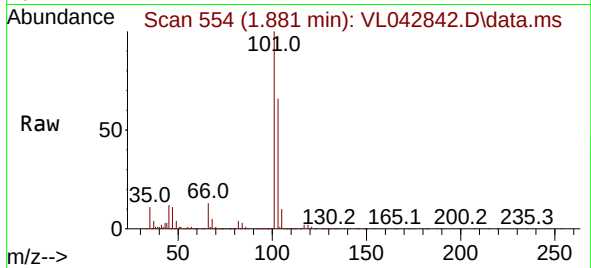




#11
 Trichlorofluoromethane
 Concen: 8.789 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

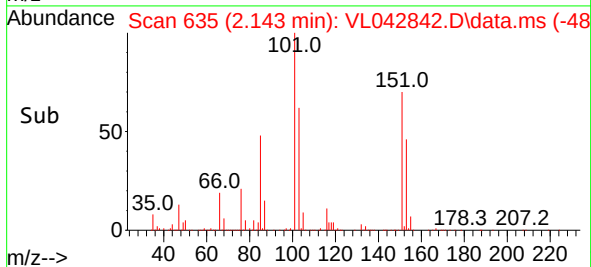
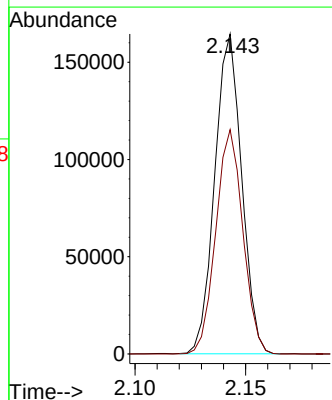
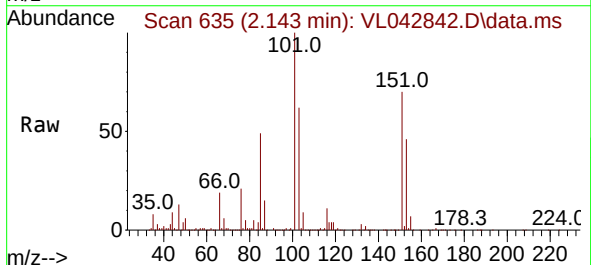
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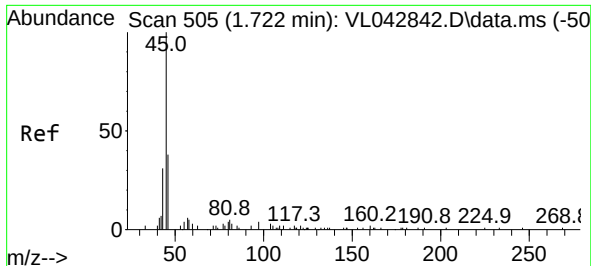
Tgt Ion:101 Resp: 169157
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.083 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion:101 Resp: 139340
 Ion Ratio Lower Upper
 101 100
 151 70.5 56.4 84.6

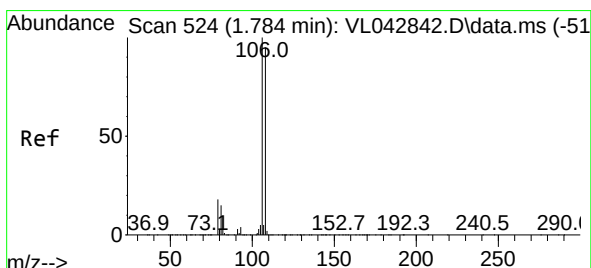
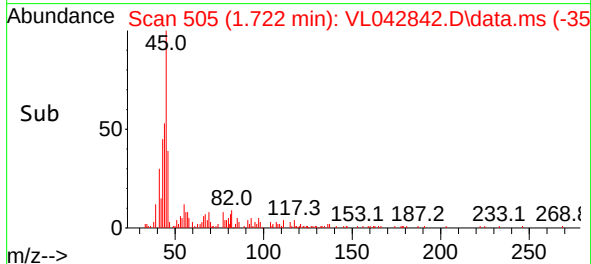
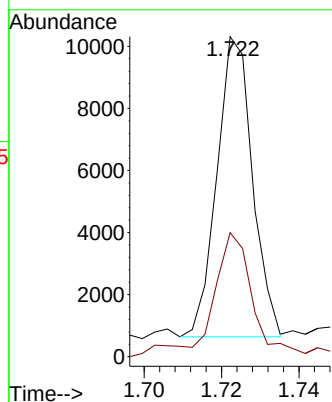
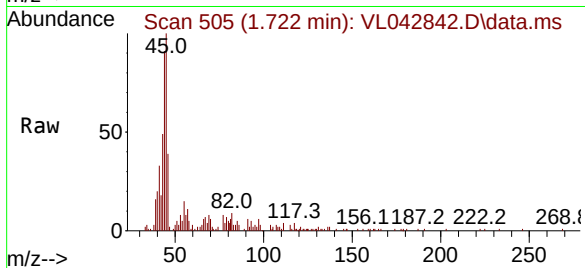




#13
Ethanol
Concen: 6.690 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

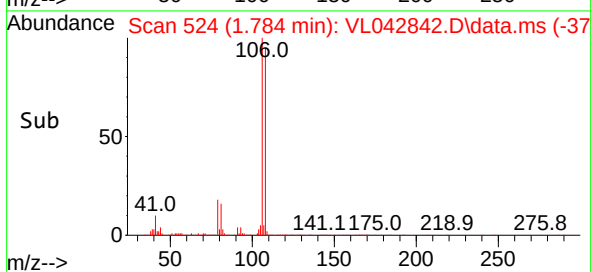
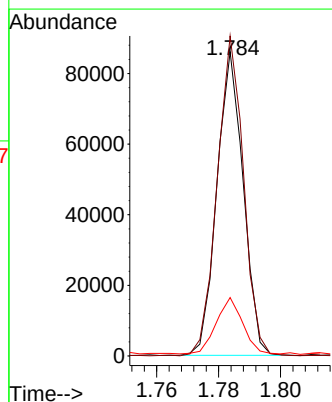
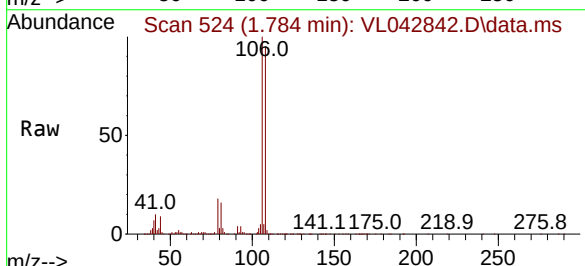
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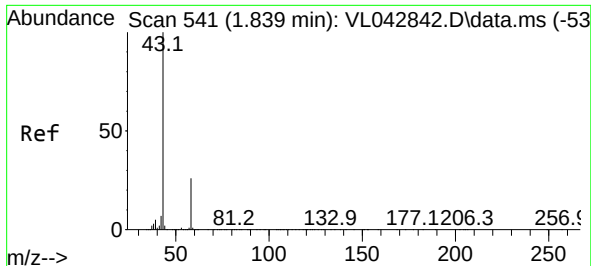
Tgt Ion: 45 Resp: 6172
Ion Ratio Lower Upper
45 100
46 43.7 17.5 69.9



#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 108 Resp: 50730
Ion Ratio Lower Upper
108 100
106 106.4 85.1 127.7
79 20.4 16.3 24.5

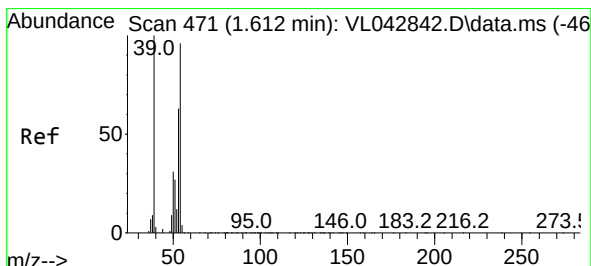
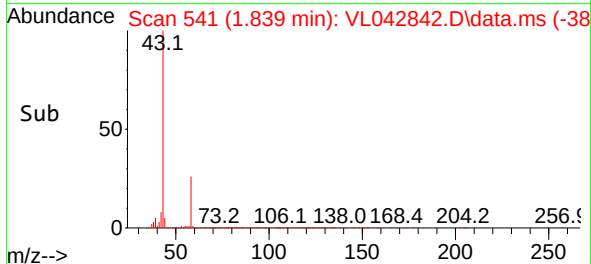
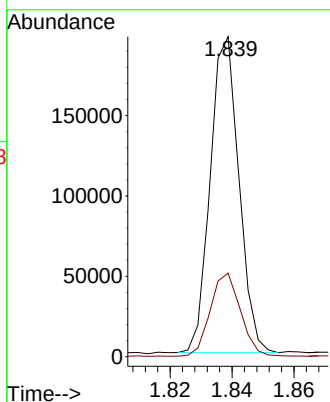
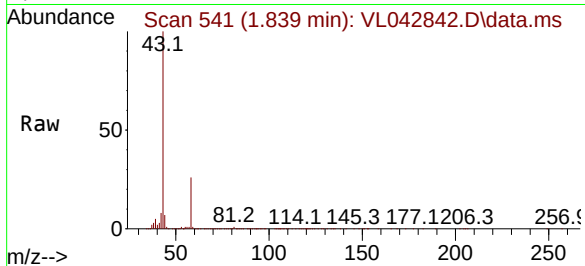




#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

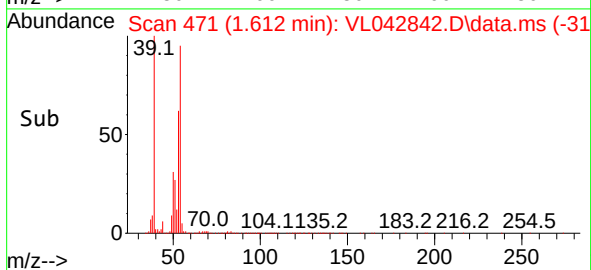
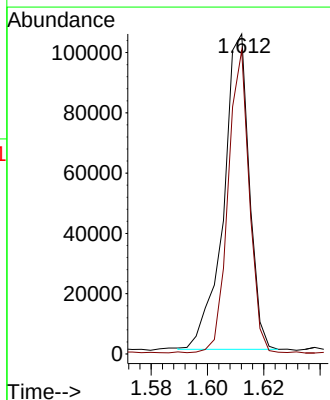
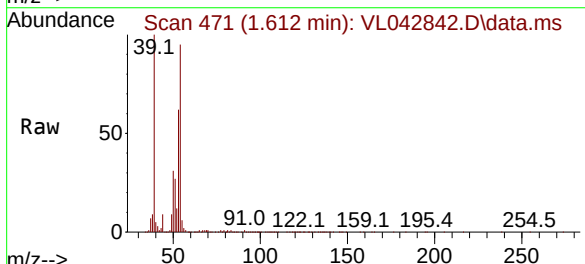
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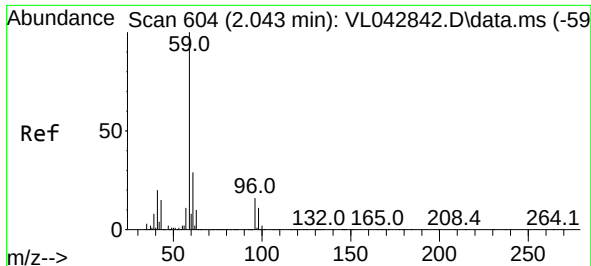
Tgt Ion: 43 Resp: 126419
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 39 Resp: 66595
Ion Ratio Lower Upper
39 100
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.741 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

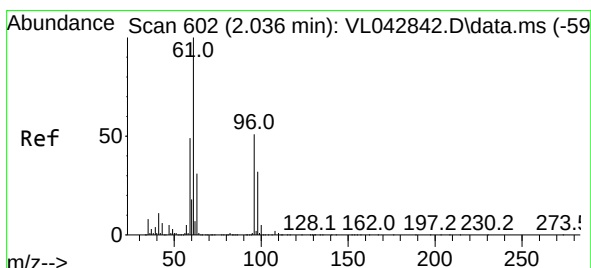
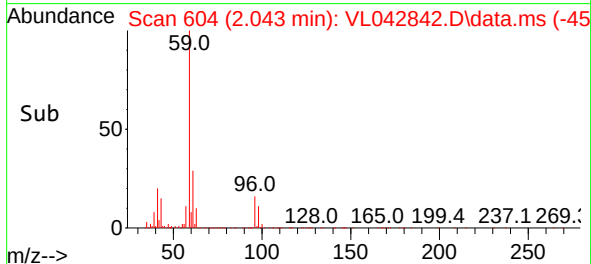
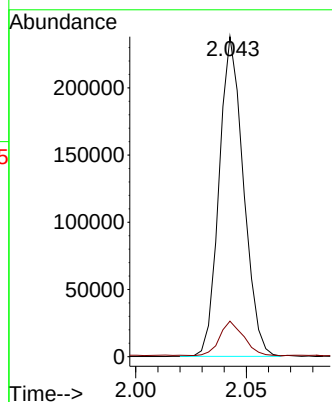
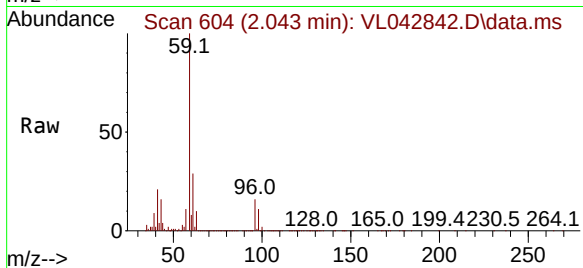
VSTDICCC010

Tgt Ion: 59 Resp: 182511

Ion Ratio Lower Upper

59 100

57 11.2 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.252 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

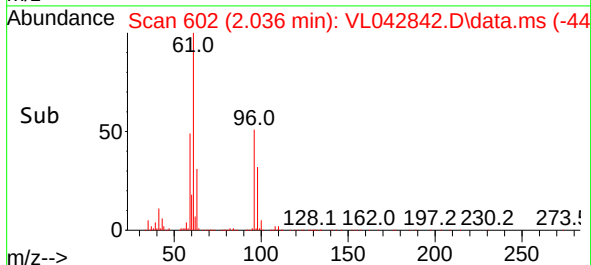
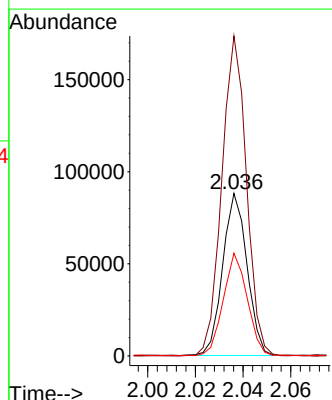
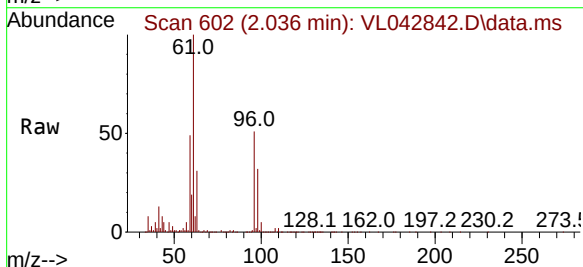
Tgt Ion: 96 Resp: 62397

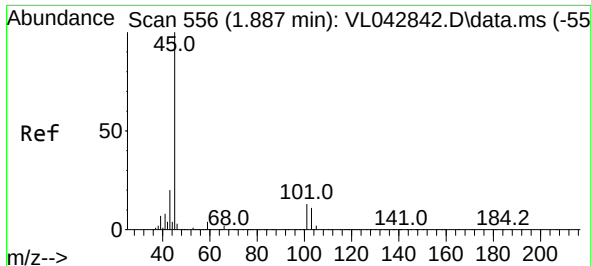
Ion Ratio Lower Upper

96 100

61 197.8 158.2 237.4

98 63.3 50.6 76.0

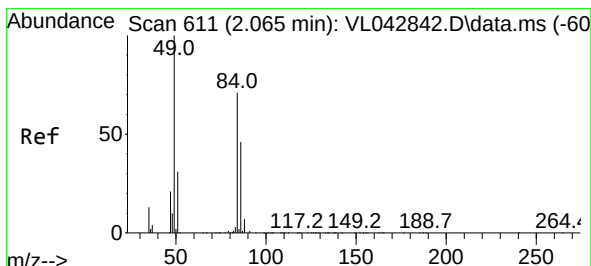
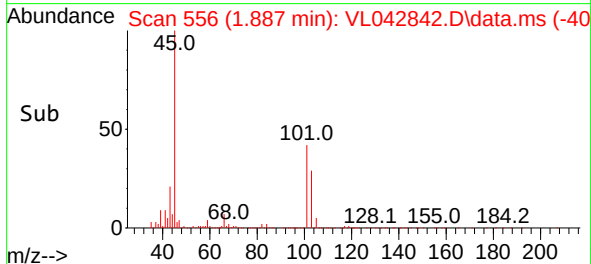
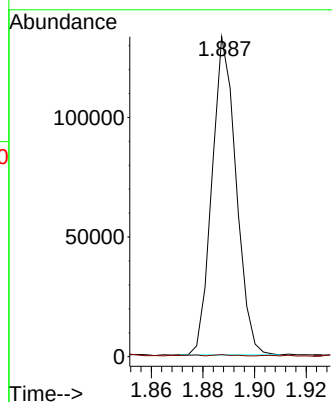
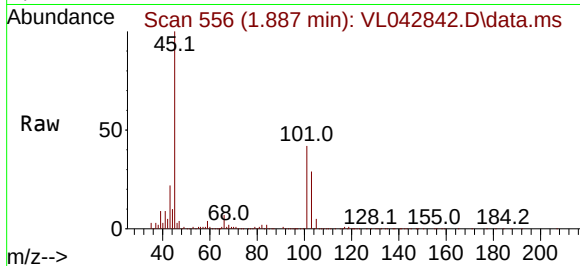




#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

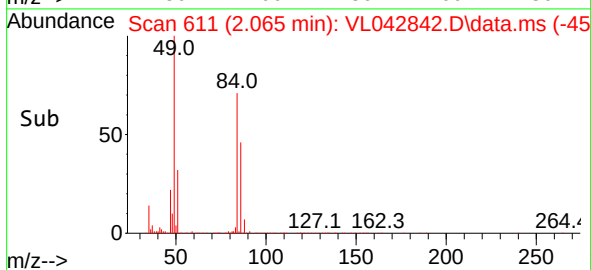
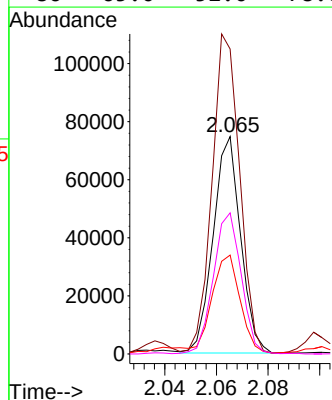
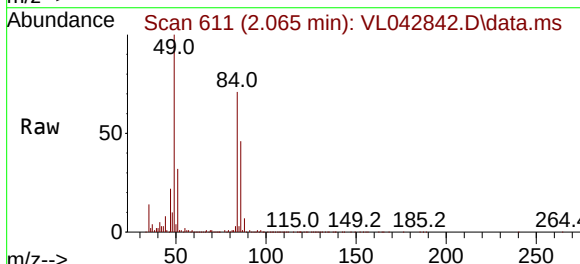
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

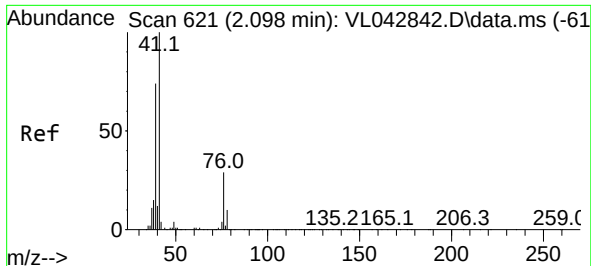
Tgt Ion: 45 Resp: 86367
Ion Ratio Lower Upper
45 100
58 40.9 32.7 49.1



#20
Methylene Chloride
Concen: 7.471 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 84 Resp: 55107
Ion Ratio Lower Upper
84 100
49 140.4 112.3 168.5
51 45.0 36.0 54.0
86 65.0 52.0 78.0





#21

Allyl Chloride

Concen: 9.093 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

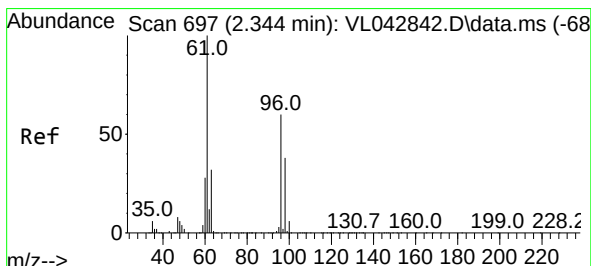
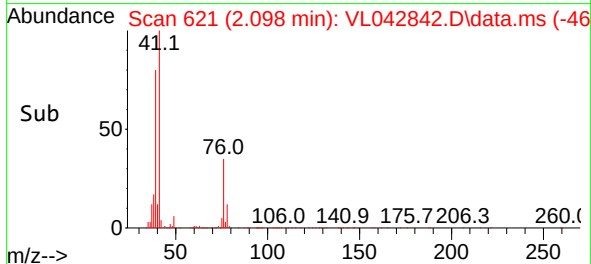
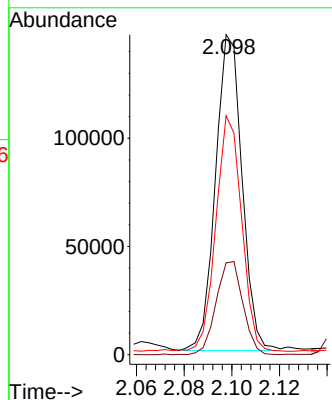
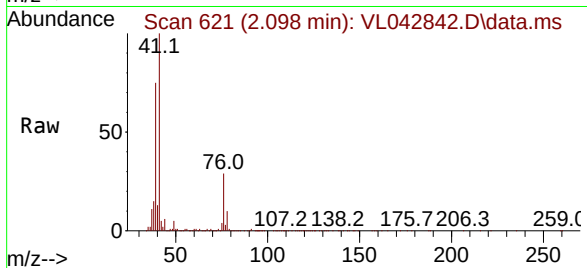
Tgt Ion: 41 Resp: 113105

Ion Ratio Lower Upper

41 100

76 29.9 23.9 35.9

39 72.2 57.8 86.6



#22

trans-1,2-Dichloroethene

Concen: 9.482 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

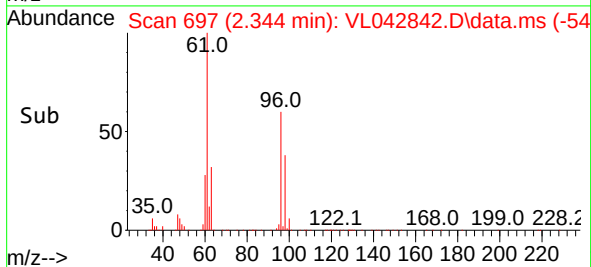
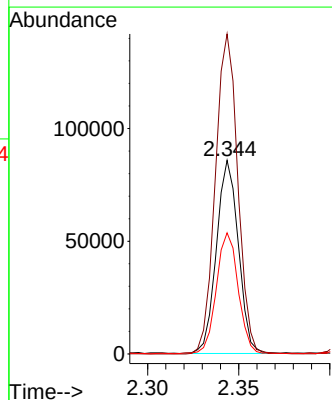
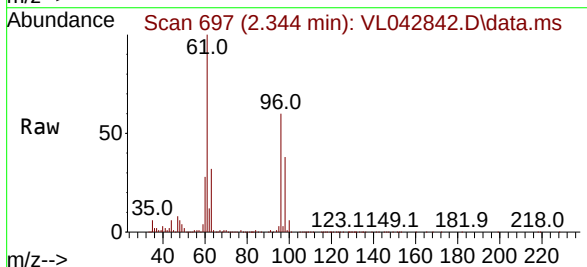
Tgt Ion: 96 Resp: 71518

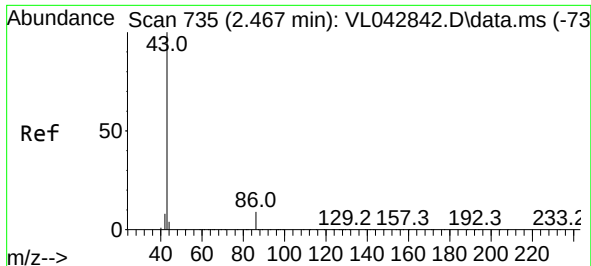
Ion Ratio Lower Upper

96 100

61 165.8 132.6 199.0

98 62.5 50.0 75.0



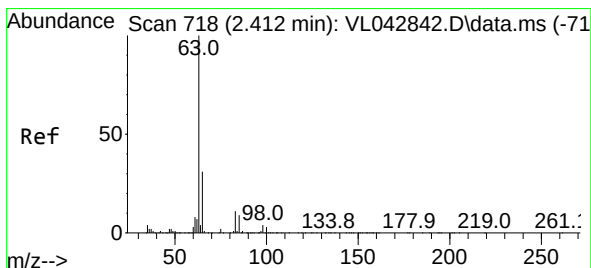
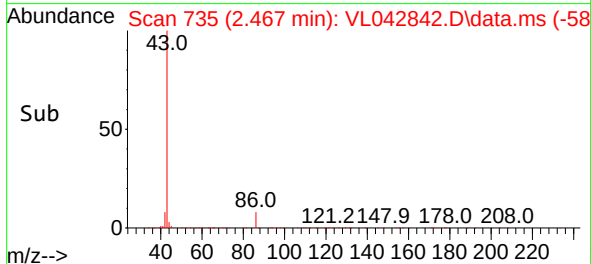
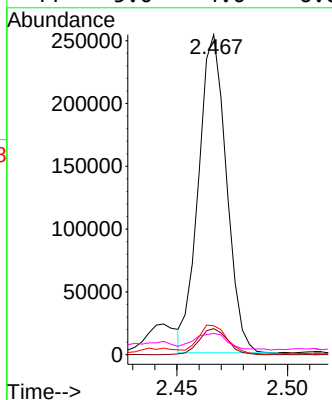
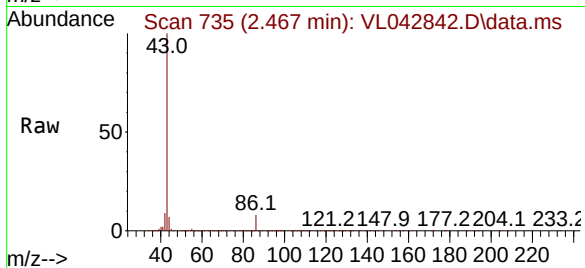


#23
 Vinyl Acetate
 Concen: 9.558 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 221395

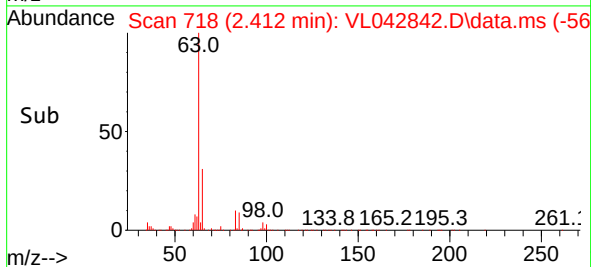
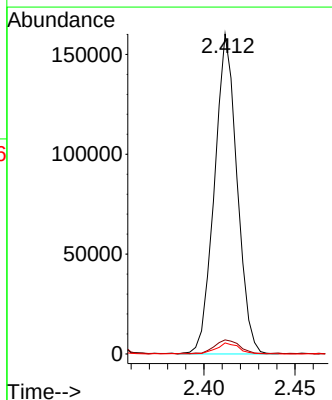
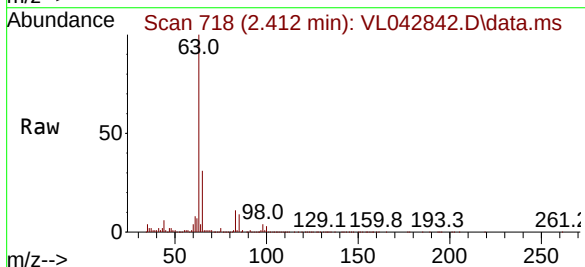
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.8	7.0	10.6
44	5.0	4.0	6.0

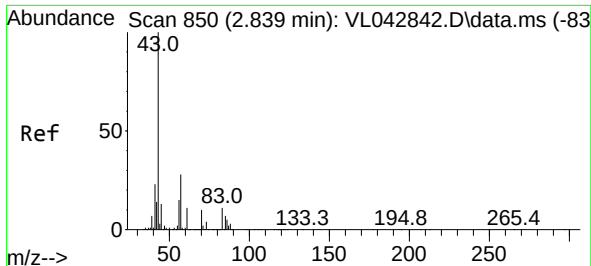


#24
 1,1-Dichloroethane
 Concen: 8.885 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 63 Resp: 138444

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	3.4	1.7	5.1

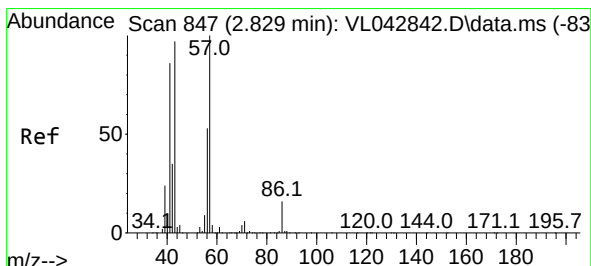
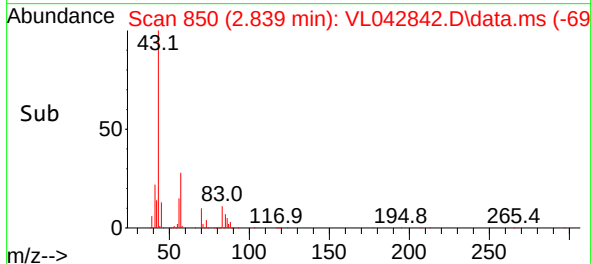
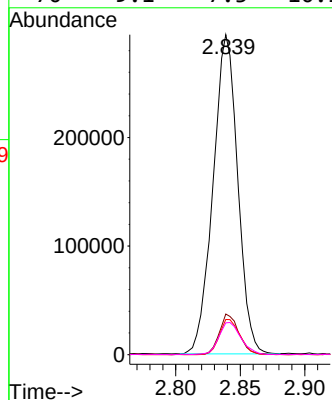
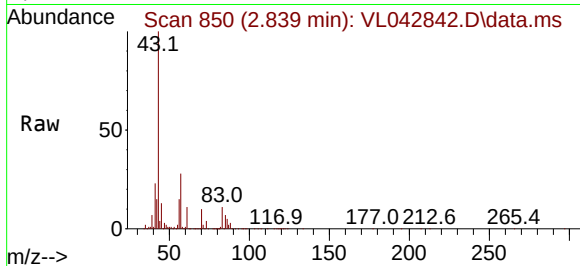




#25
Ethyl Acetate
Concen: 9.159 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

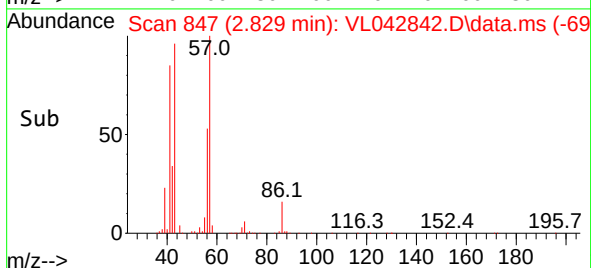
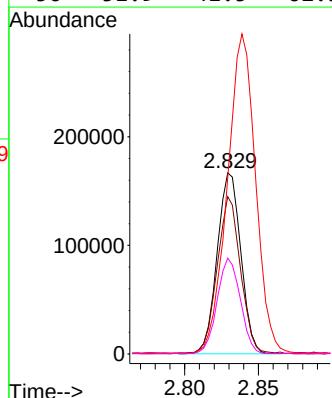
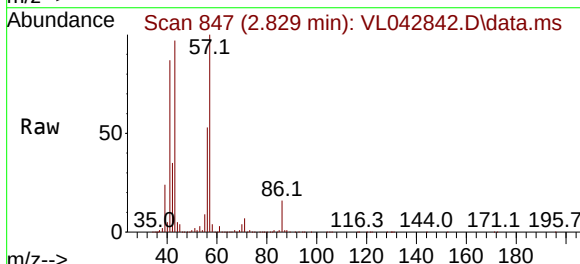
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

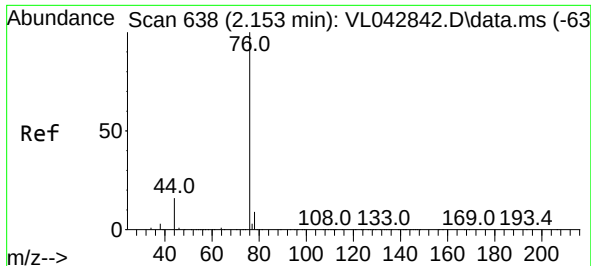
Tgt Ion:	43	Resp:	390295
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.3	7.4	11.2
70	9.1	7.3	10.9



#26
Hexane
Concen: 9.420 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:	57	Resp:	185288
Ion	Ratio	Lower	Upper
57	100		
41	85.8	68.6	103.0
43	210.6	168.5	252.7
56	51.9	41.5	62.3

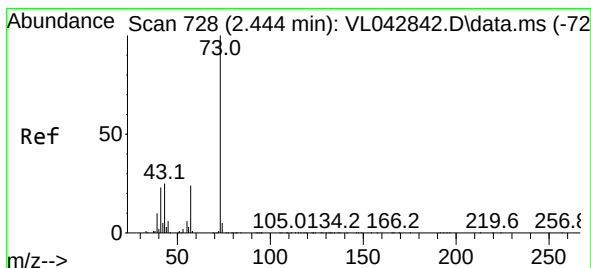
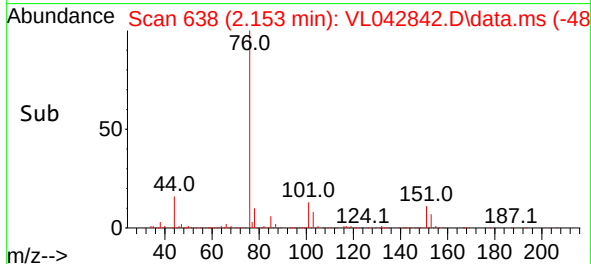
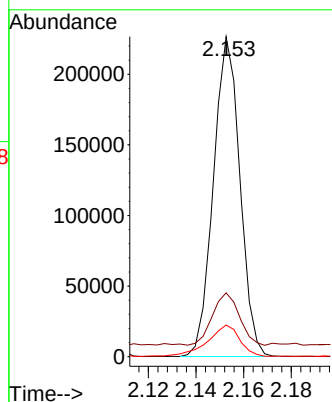
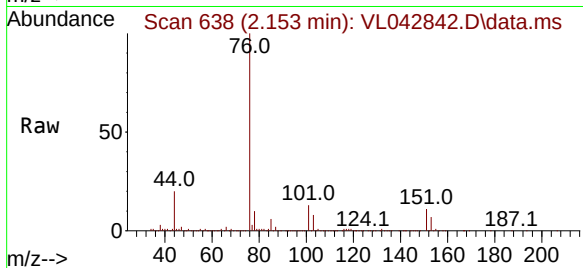




#27
Carbon Disulfide
Concen: 9.138 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

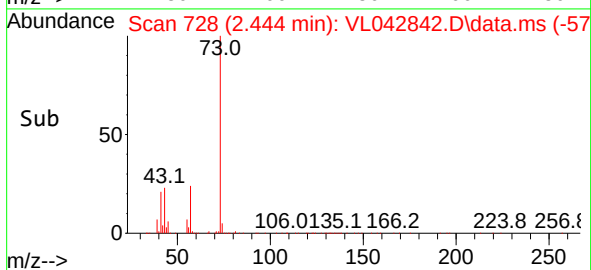
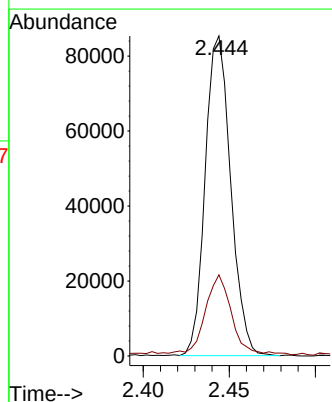
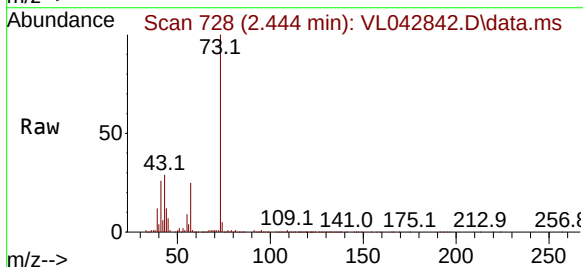
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

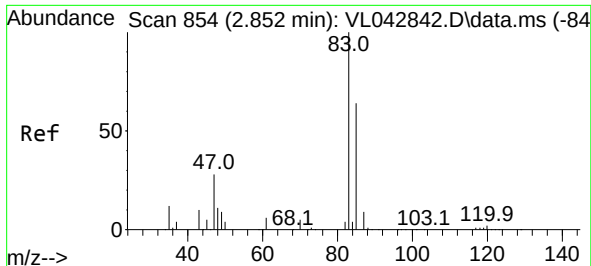
Tgt Ion: 76 Resp: 174928
Ion Ratio Lower Upper
76 100
44 19.9 15.9 23.9
78 11.9 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 8.767 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 73 Resp: 87929
Ion Ratio Lower Upper
73 100
57 27.0 21.6 32.4





#29

Chloroform

Concen: 9.158 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

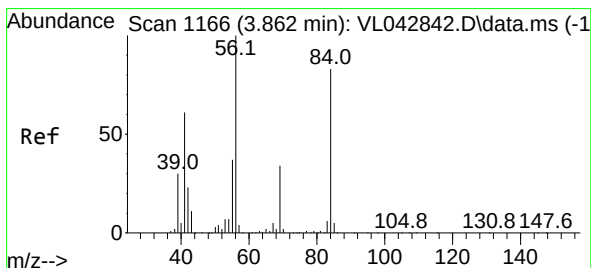
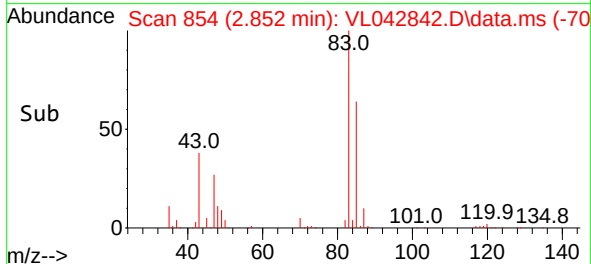
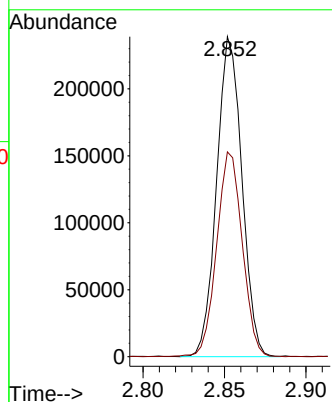
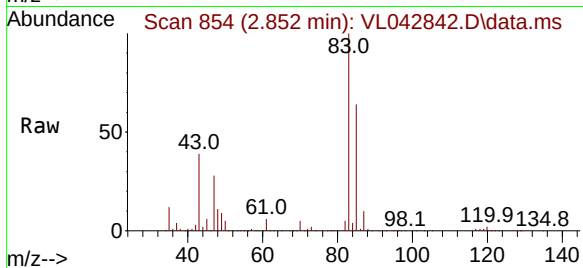
VSTDICCC010

Tgt Ion: 83 Resp: 257176

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7



#30

Cyclohexane

Concen: 9.367 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

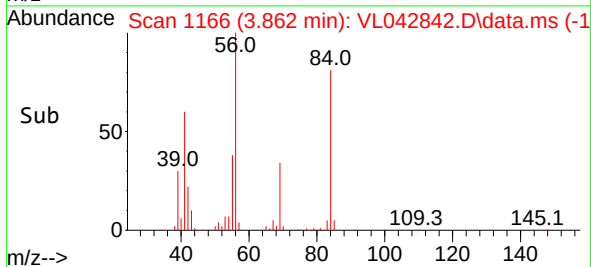
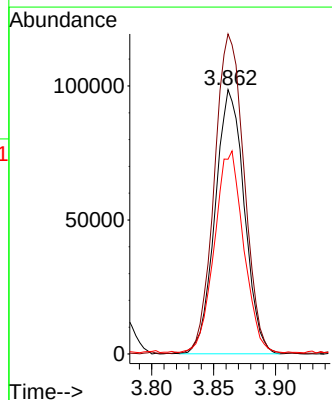
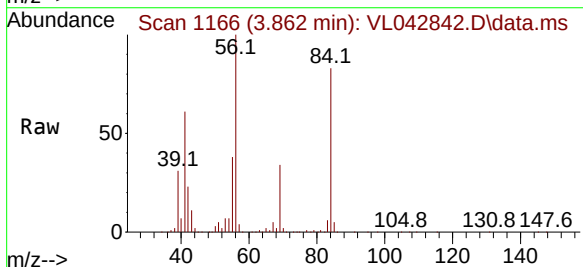
Tgt Ion: 84 Resp: 161540

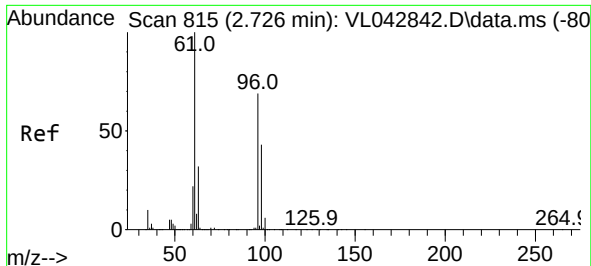
Ion Ratio Lower Upper

84 100

56 123.5 98.8 148.2

41 76.6 61.3 91.9

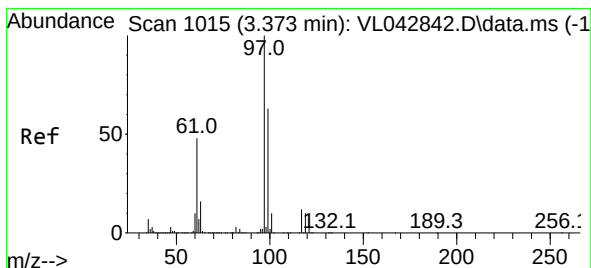
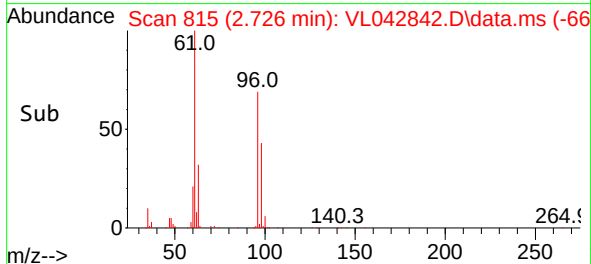
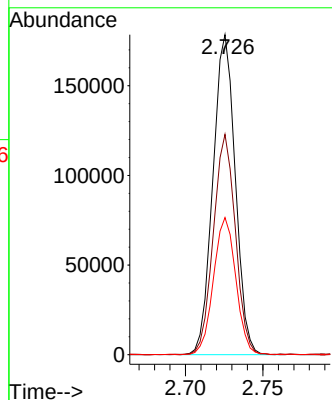
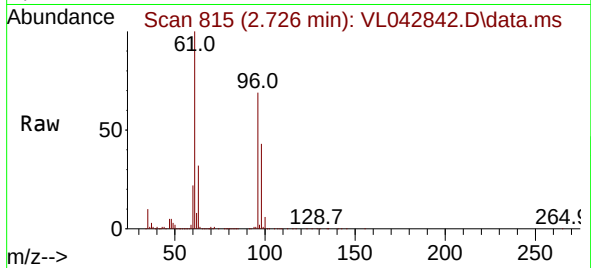




#31
 cis-1,2-Dichloroethene
 Concen: 9.107 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

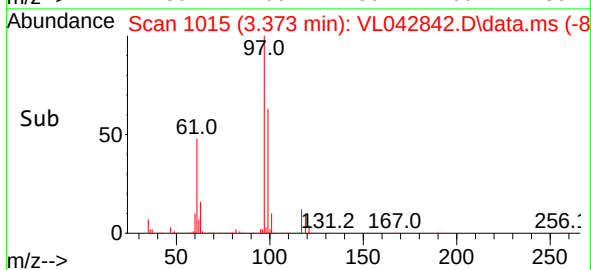
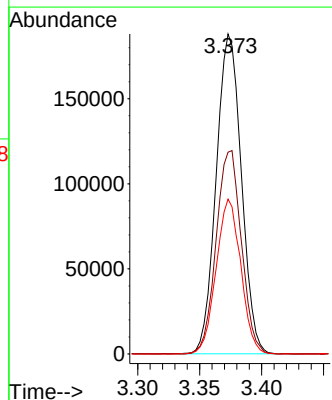
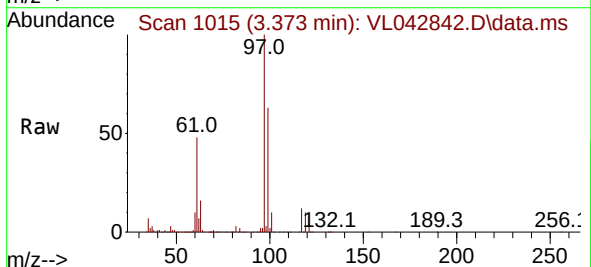
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

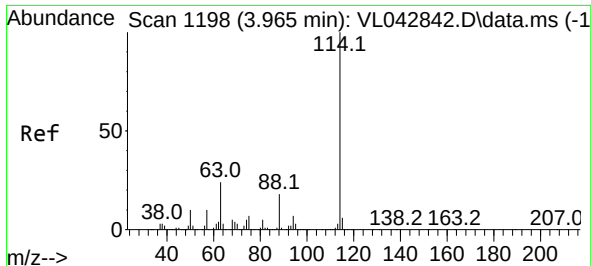
Tgt Ion: 61 Resp: 179162
 Ion Ratio Lower Upper
 61 100
 96 68.8 55.0 82.6
 98 42.9 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 8.946 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 97 Resp: 266021
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 47.5 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

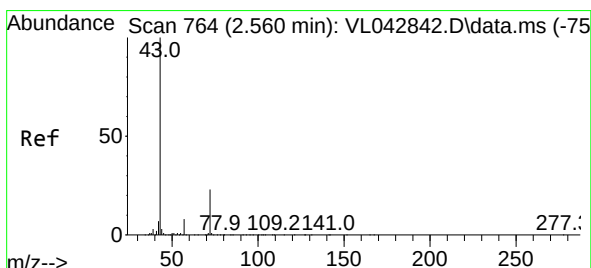
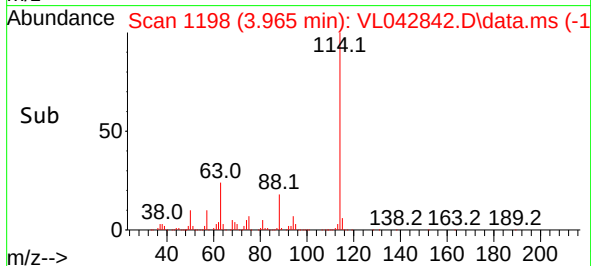
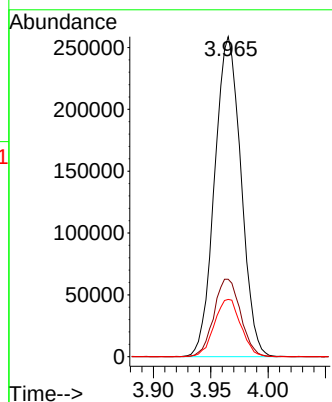
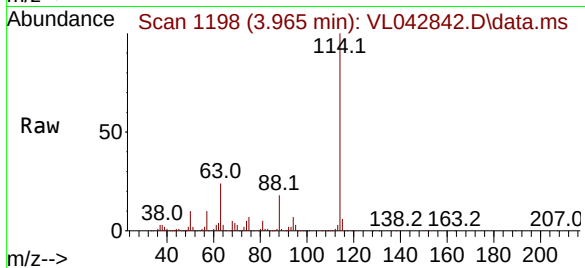
Tgt Ion:114 Resp: 413632

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 18.0 14.4 21.6



#34

2-Butanone

Concen: 9.033 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042842.D

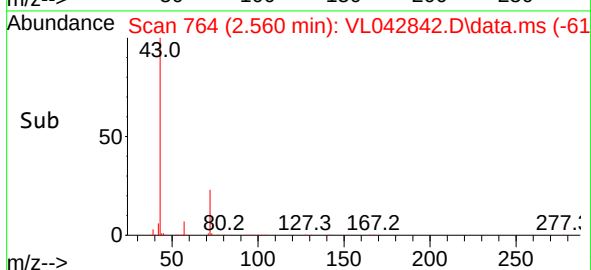
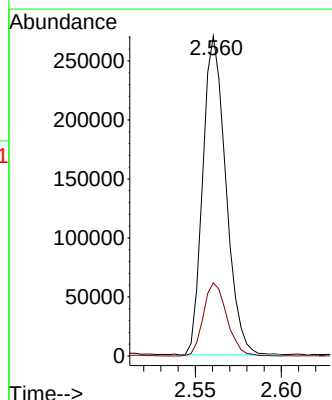
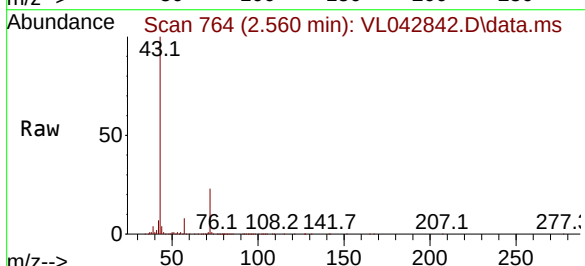
Acq: 13 Aug 2025 08:30

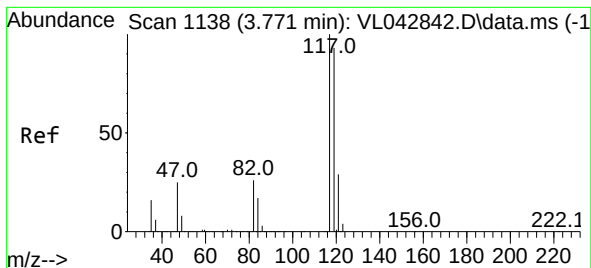
Tgt Ion: 43 Resp: 252300

Ion Ratio Lower Upper

43 100

72 23.3 18.6 28.0





#35

Carbon Tetrachloride

Concen: 9.222 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

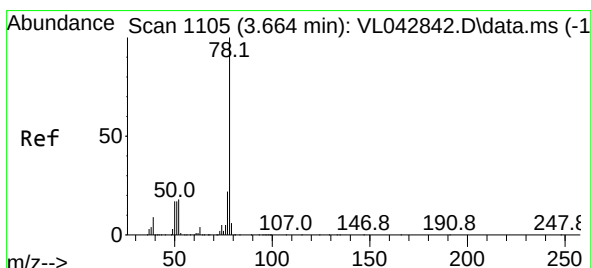
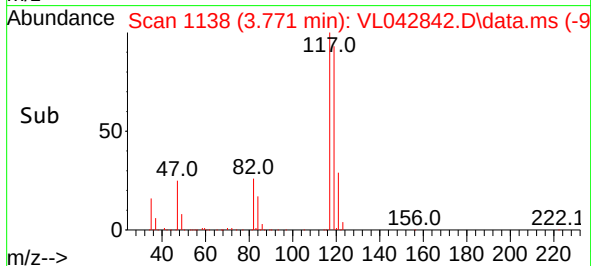
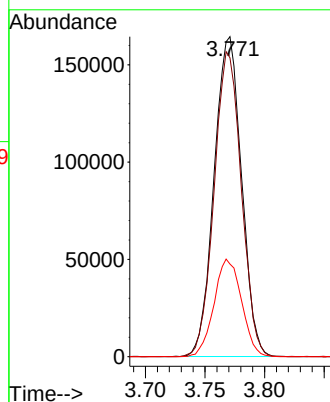
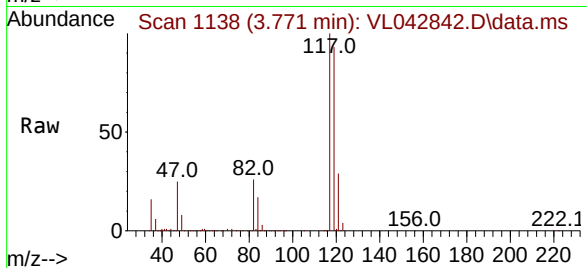
Tgt Ion:117 Resp: 262983

Ion Ratio Lower Upper

117 100

119 93.4 74.7 112.1

121 29.0 23.2 34.8



#36

Benzene

Concen: 9.521 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

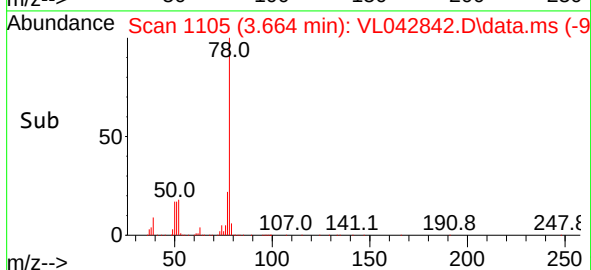
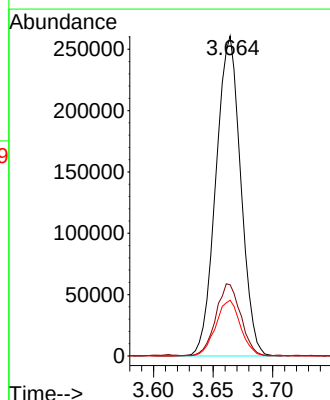
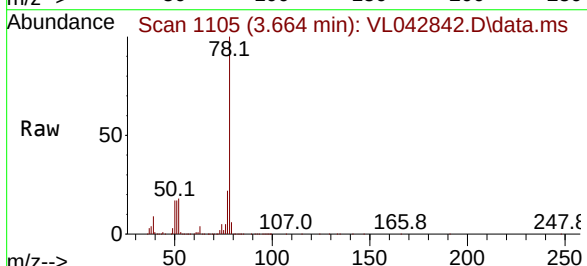
Tgt Ion: 78 Resp: 377113

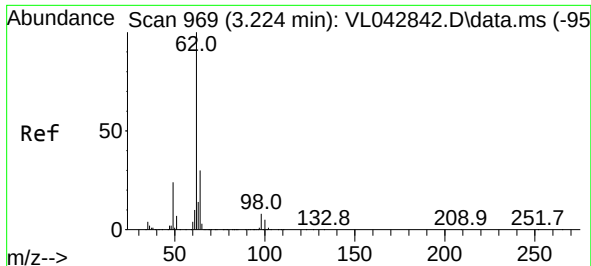
Ion Ratio Lower Upper

78 100

77 22.1 17.7 26.5

50 17.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.653 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

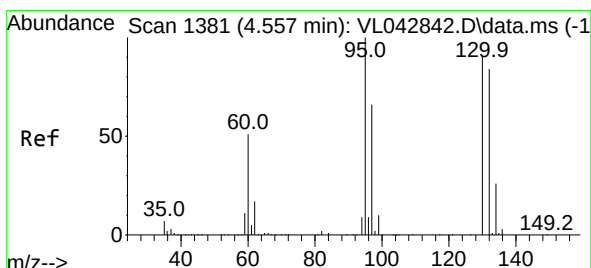
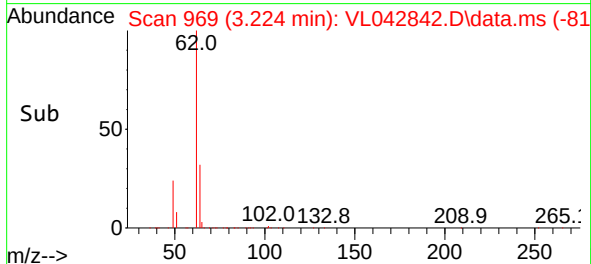
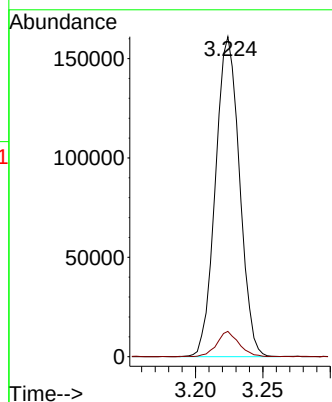
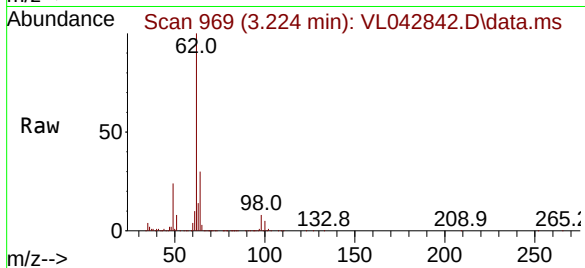
VSTDICCC010

Tgt Ion: 62 Resp: 199762

Ion Ratio Lower Upper

62 100

98 7.4 5.9 8.9



#38

Trichloroethene

Concen: 9.115 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 130 Resp: 164881

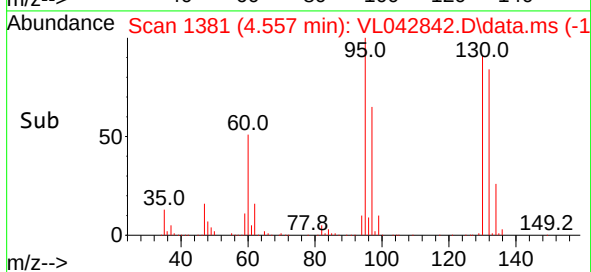
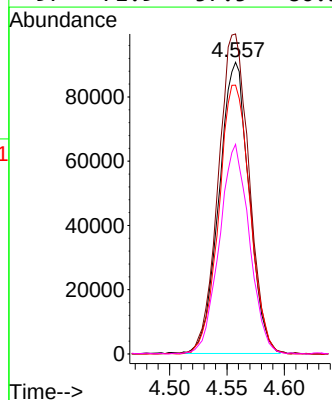
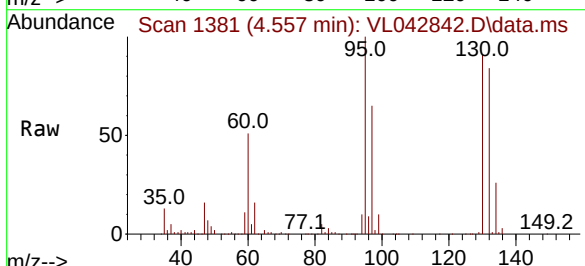
Ion Ratio Lower Upper

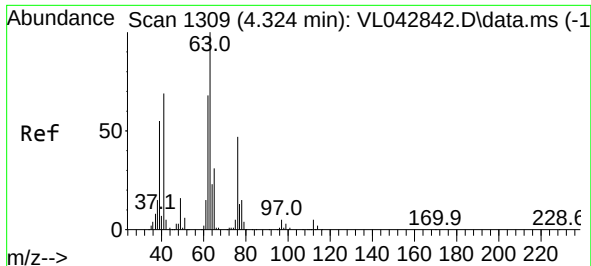
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

97 71.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.263 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

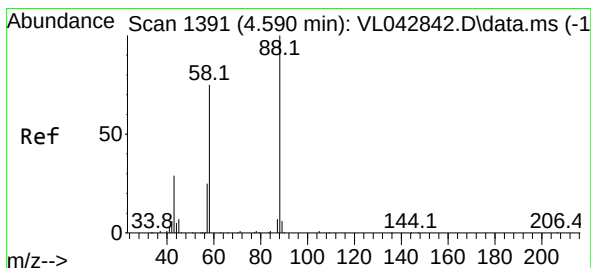
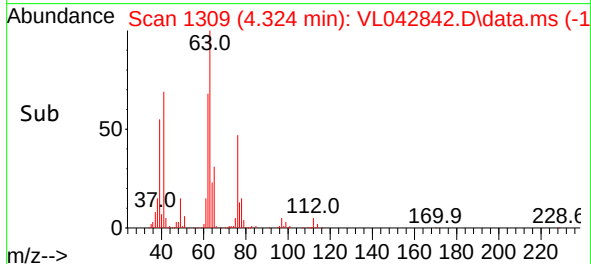
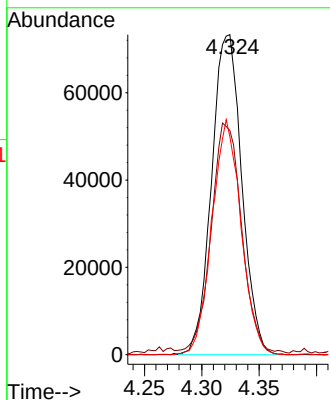
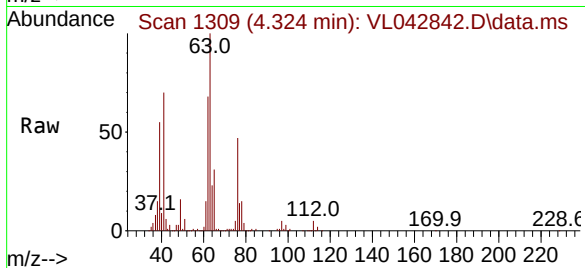
Tgt Ion: 63 Resp: 133996

Ion Ratio Lower Upper

63 100

41 68.7 55.0 82.4

62 68.0 54.4 81.6



#40

1,4-Dioxane

Concen: 9.064 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 88 Resp: 61378

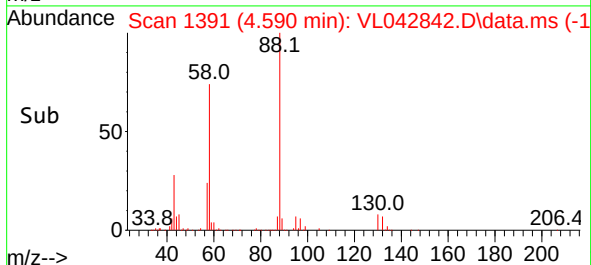
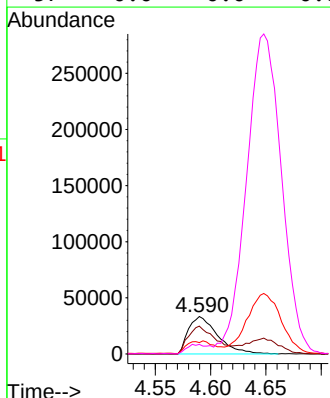
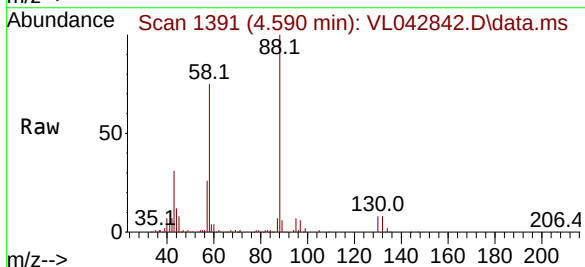
Ion Ratio Lower Upper

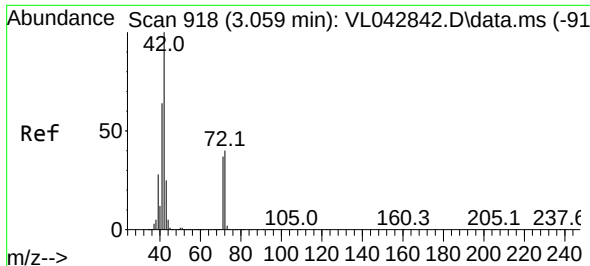
88 100

58 67.2 53.8 80.6

43 28.5 22.8 34.2

57 0.0 0.0 0.0

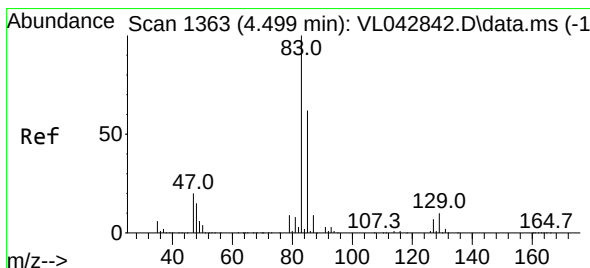
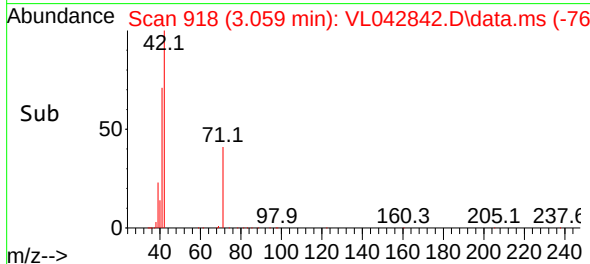
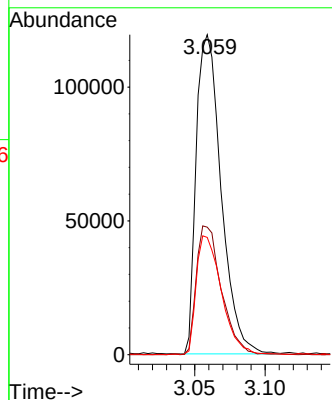
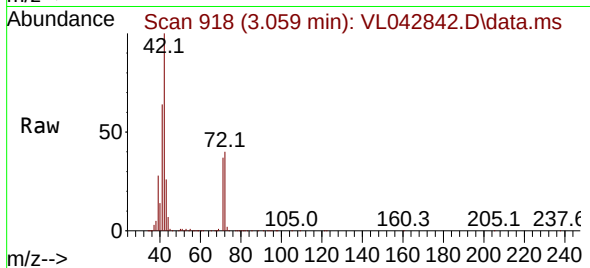




#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

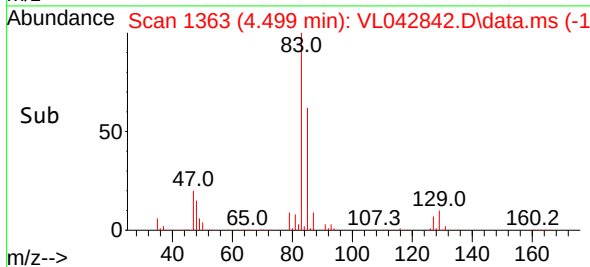
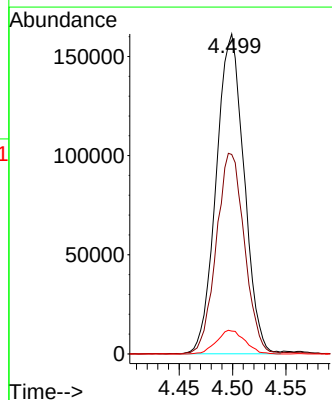
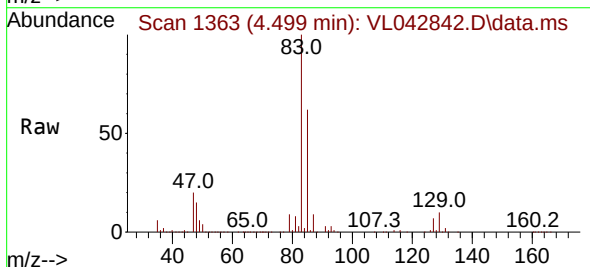
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

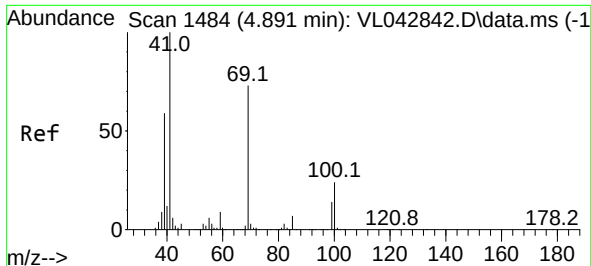
Tgt Ion: 42 Resp: 147025
Ion Ratio Lower Upper
42 100
72 40.7 32.6 48.8
71 37.5 30.0 45.0



#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 83 Resp: 292909
Ion Ratio Lower Upper
83 100
85 62.3 49.8 74.8
127 7.2 5.8 8.6

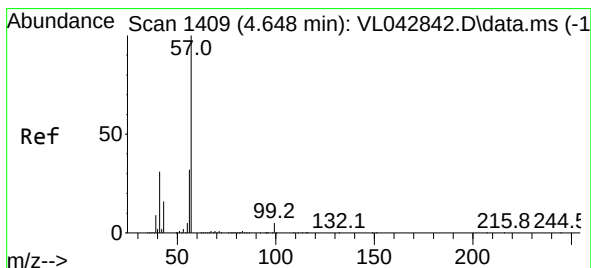
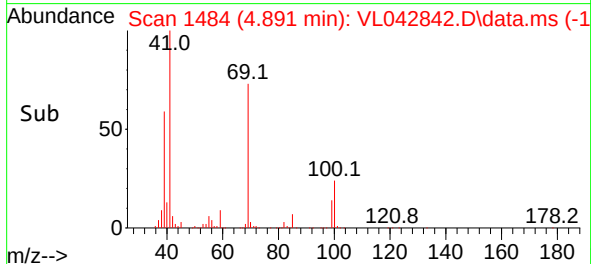
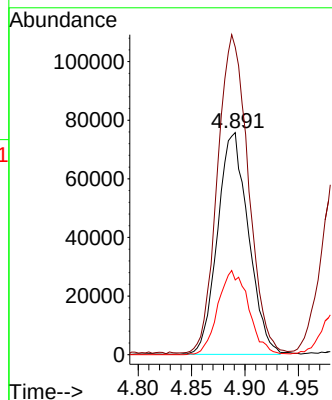
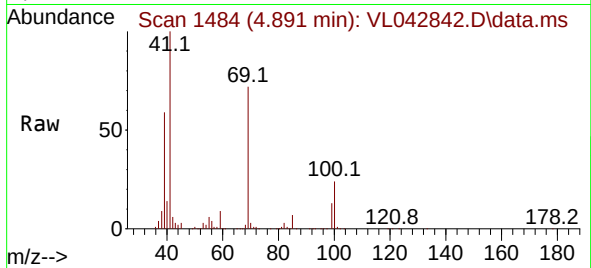




#43
Methyl Methacrylate
Concen: 9.357 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

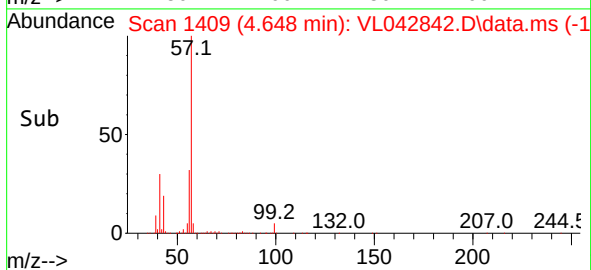
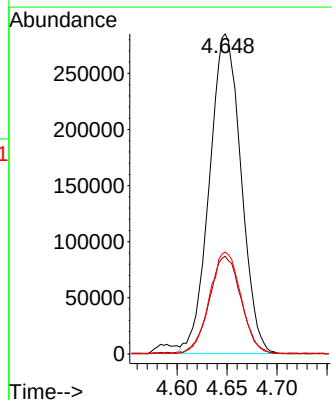
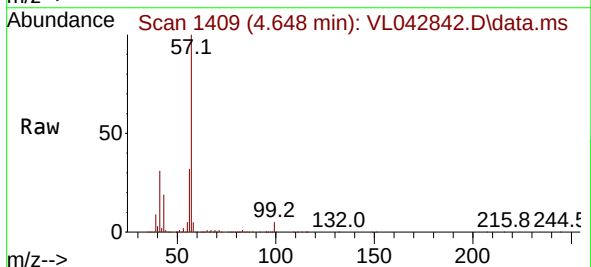
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

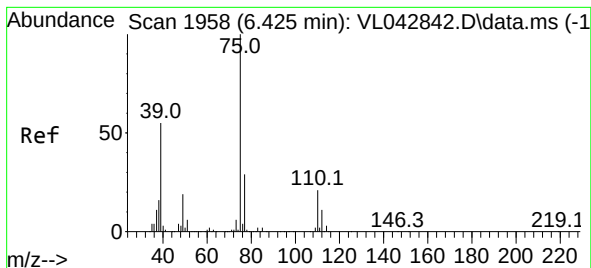
Tgt Ion: 69 Resp: 152035
Ion Ratio Lower Upper
69 100
41 143.3 114.6 172.0
100 37.8 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 57 Resp: 626465
Ion Ratio Lower Upper
57 100
41 31.0 24.8 37.2
56 31.9 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.616 ppbv

RT: 6.425 min Scan# 1958

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

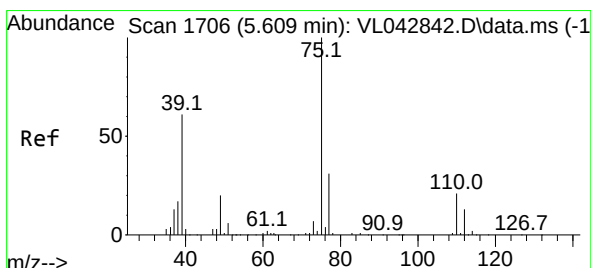
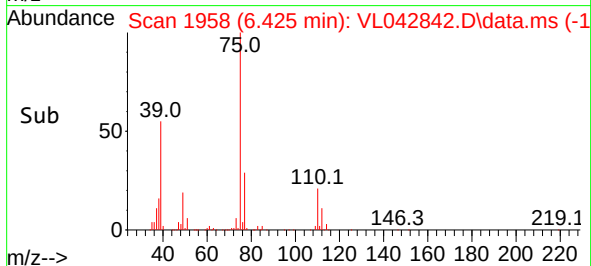
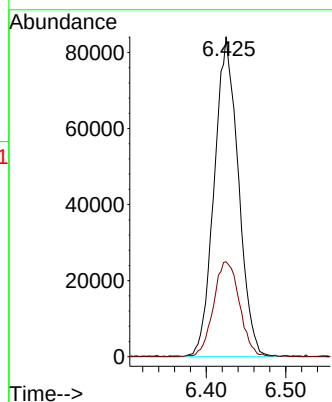
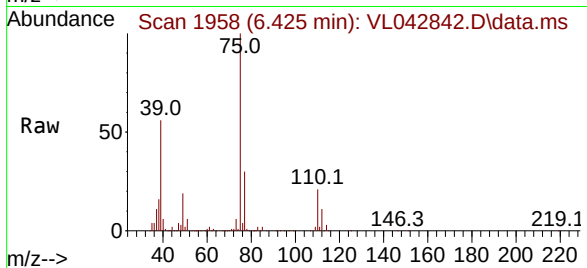
VSTDICCC010

Tgt Ion: 75 Resp: 177207

Ion Ratio Lower Upper

75 100

77 29.7 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 9.635 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

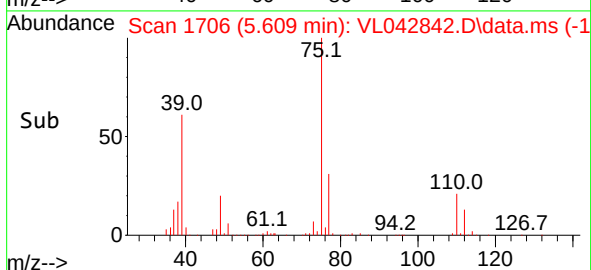
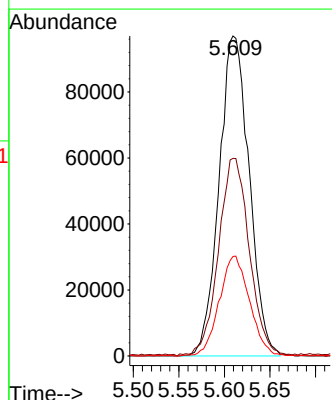
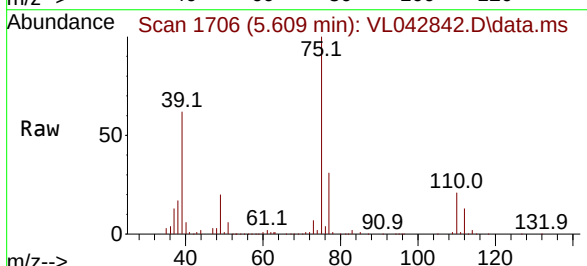
Tgt Ion: 75 Resp: 222921

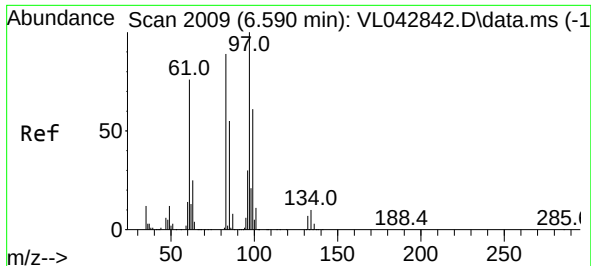
Ion Ratio Lower Upper

75 100

39 61.1 48.9 73.3

77 31.1 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.215 ppbv

RT: 6.590 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 141105

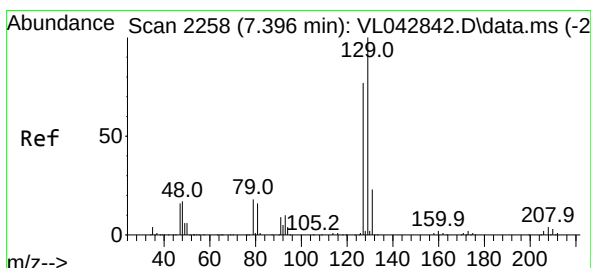
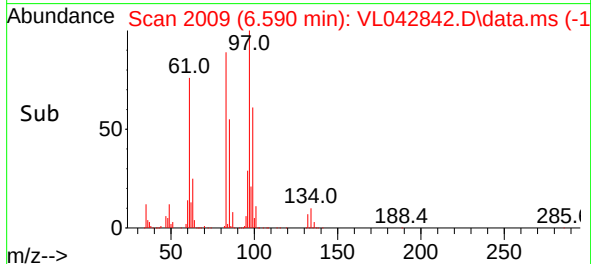
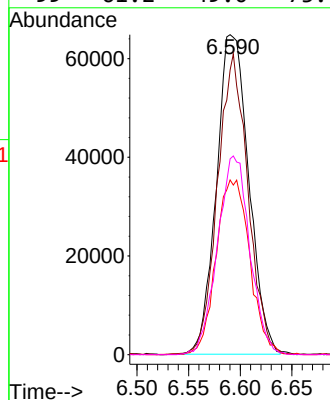
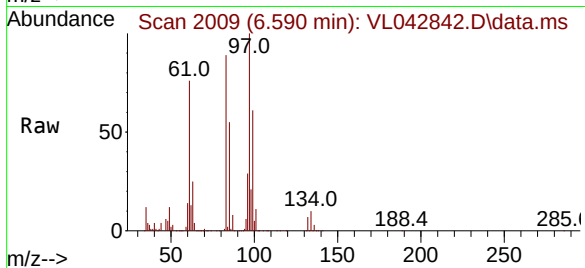
Ion Ratio Lower Upper

97 100

83 88.7 71.0 106.4

85 54.5 43.6 65.4

99 61.2 49.0 73.4



#48

Dibromochloromethane

Concen: 9.739 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VL042842.D

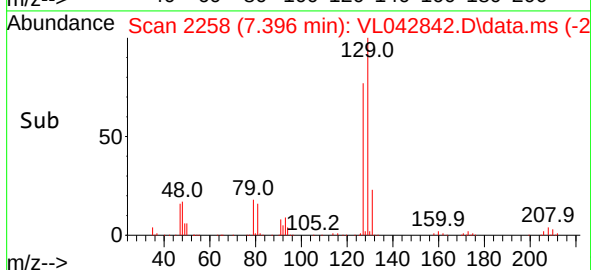
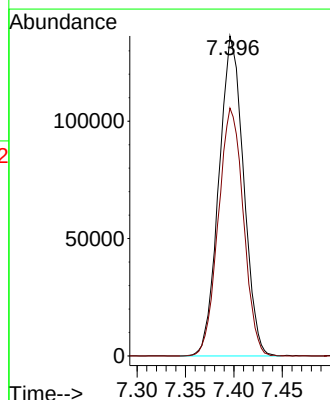
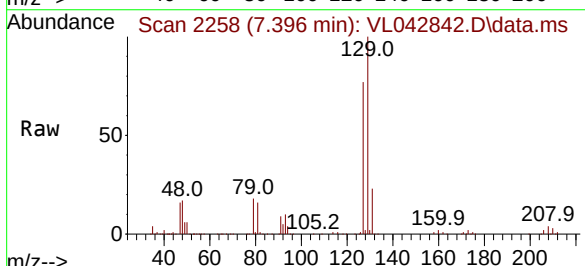
Acq: 13 Aug 2025 08:30

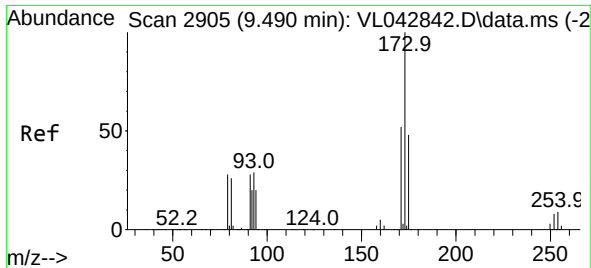
Tgt Ion: 129 Resp: 241553

Ion Ratio Lower Upper

129 100

127 78.8 39.4 118.2

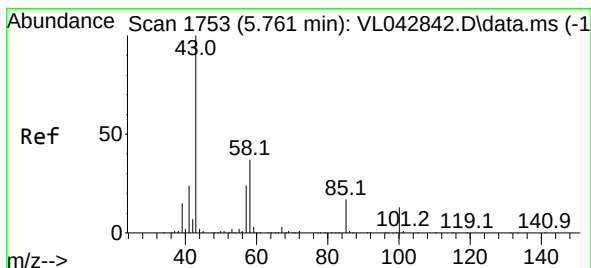
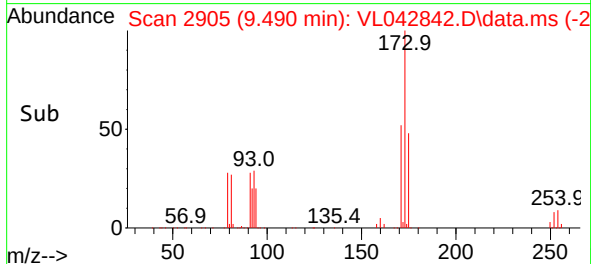
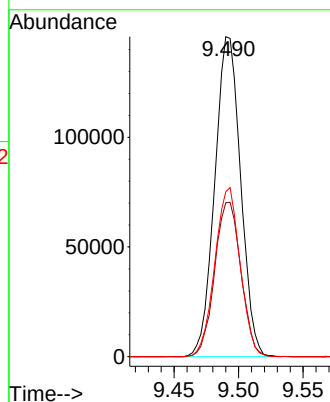
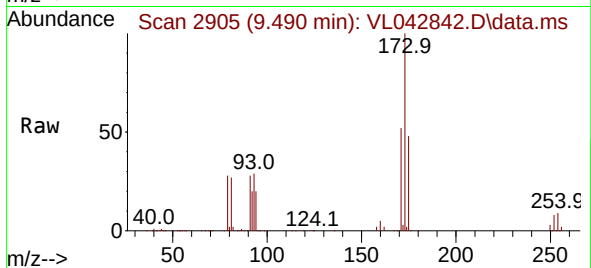




#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

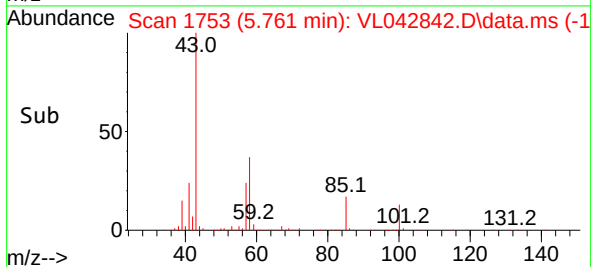
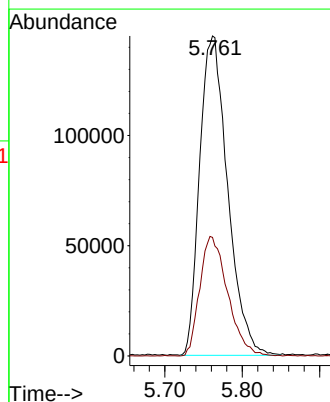
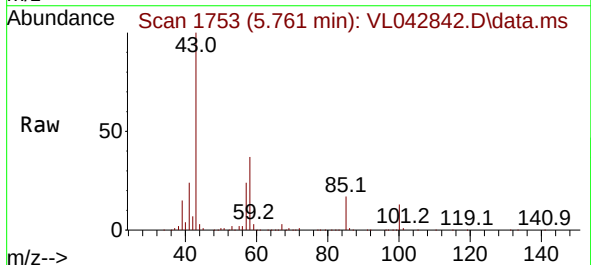
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

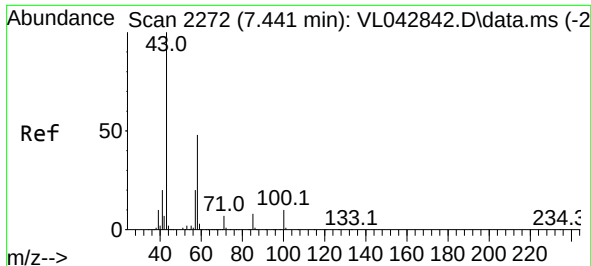
Tgt Ion:173 Resp: 202975
Ion Ratio Lower Upper
173 100
175 49.0 39.2 58.8
171 51.6 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 9.616 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 364306
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8

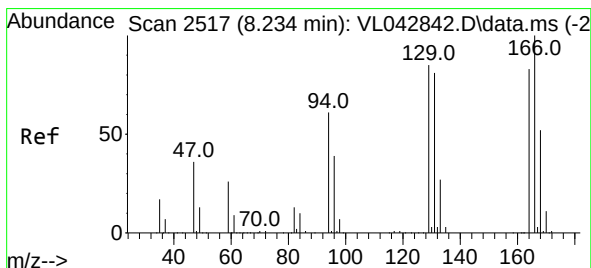
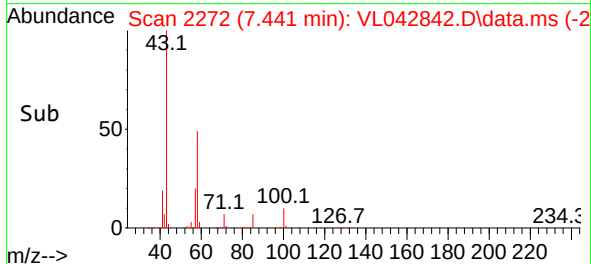
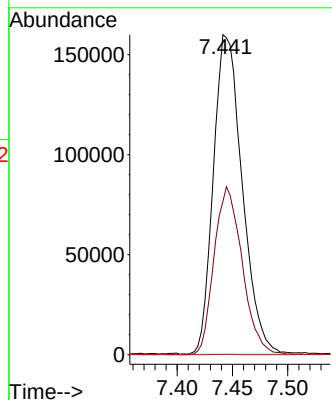
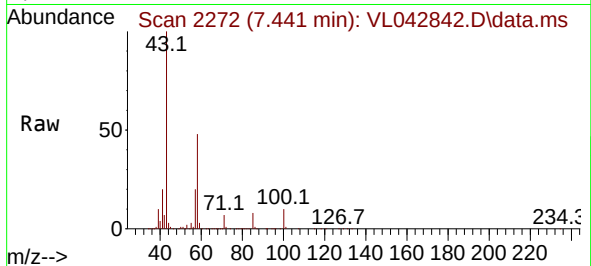




#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

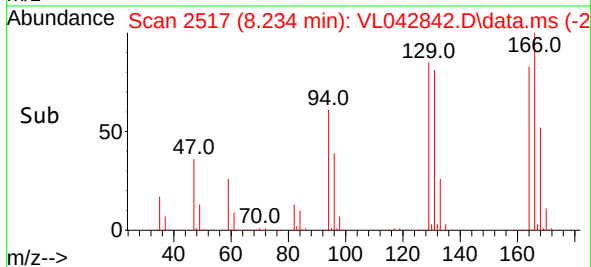
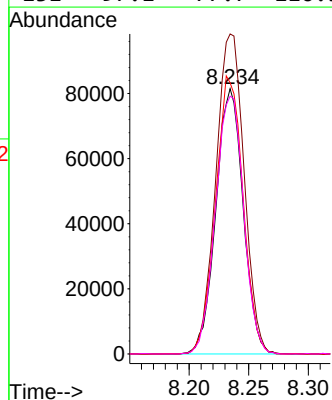
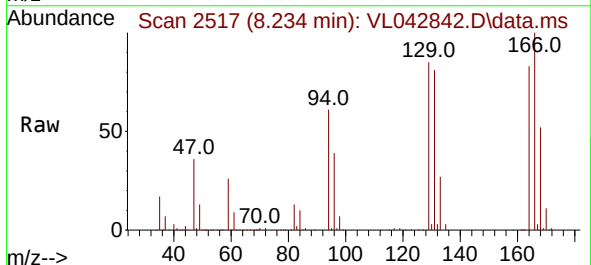
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

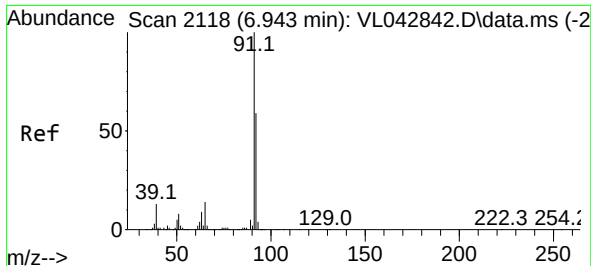
Tgt Ion: 43 Resp: 289052
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.026 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 164 Resp: 129484
Ion Ratio Lower Upper
164 100
166 120.6 96.5 144.7
129 102.2 81.8 122.6
131 97.1 77.7 116.5

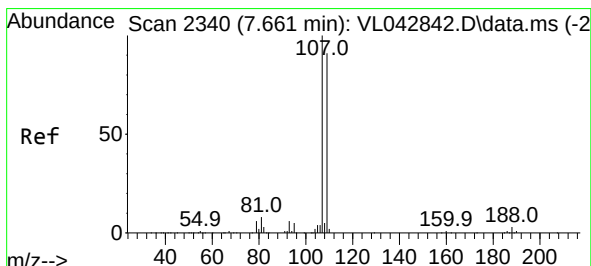
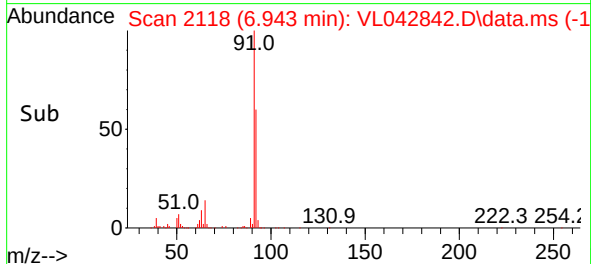
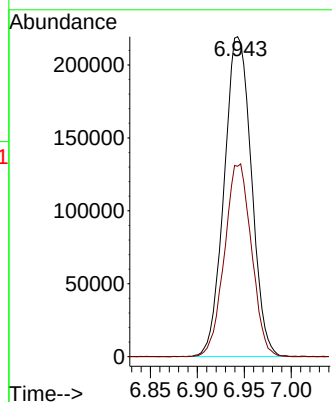
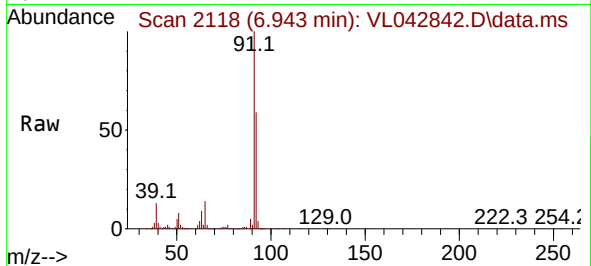




#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

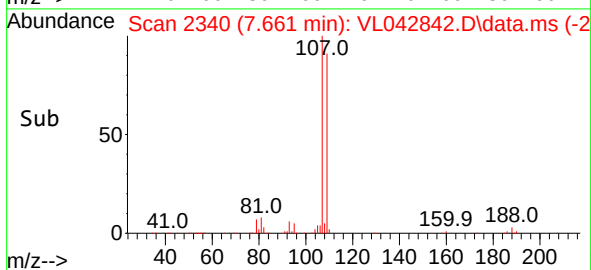
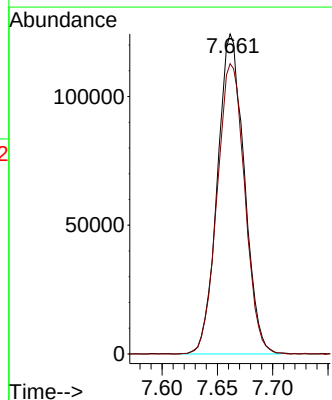
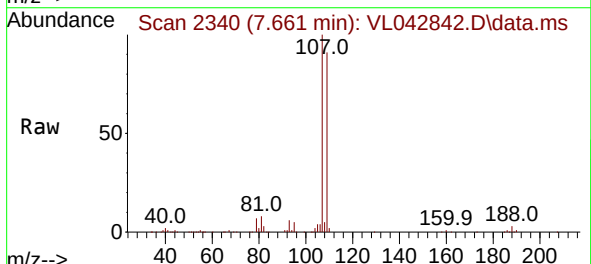
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

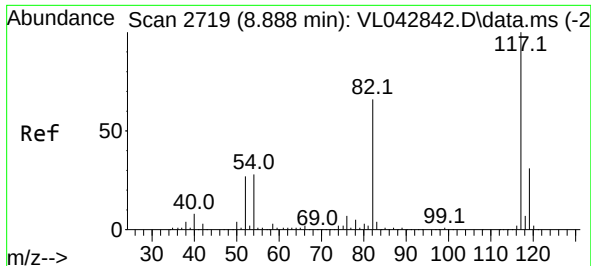
Tgt Ion: 91 Resp: 443400
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 107 Resp: 209330
Ion Ratio Lower Upper
107 100
109 90.6 72.5 108.7

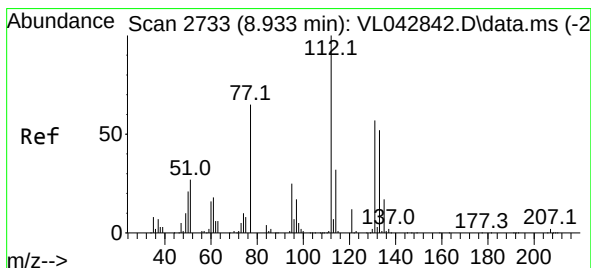
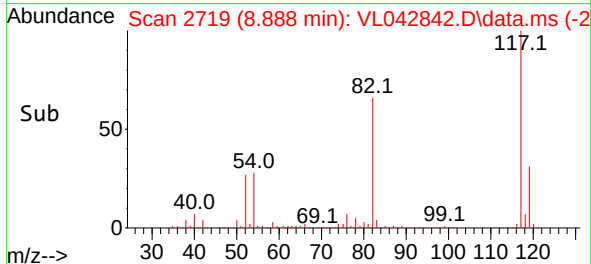
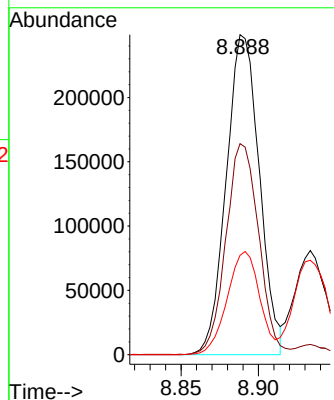
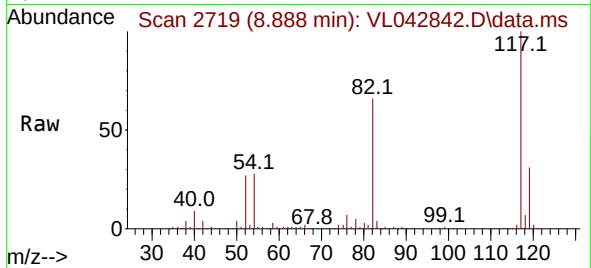




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

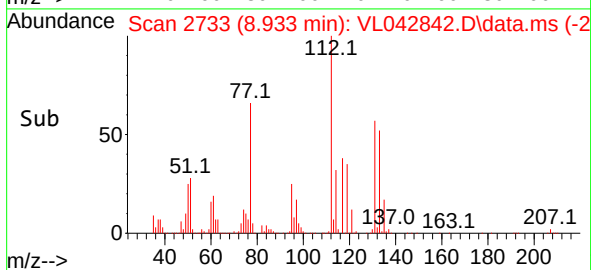
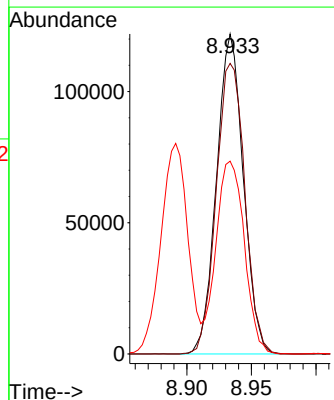
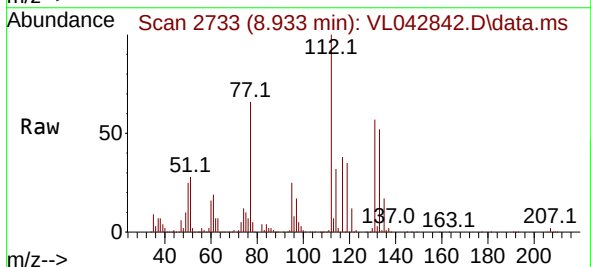
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

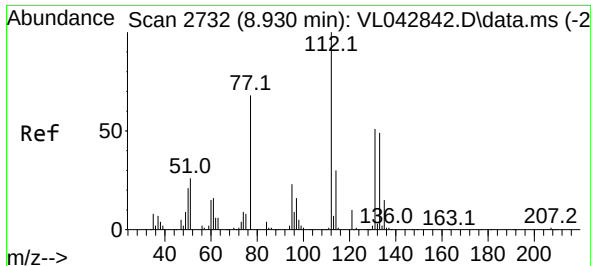
Tgt Ion:117 Resp: 370372
Ion Ratio Lower Upper
117 100
82 68.2 54.6 81.8
119 32.4 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 9.196 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:131 Resp: 176135
Ion Ratio Lower Upper
131 100
133 96.7 77.4 116.0
119 64.0 51.2 76.8

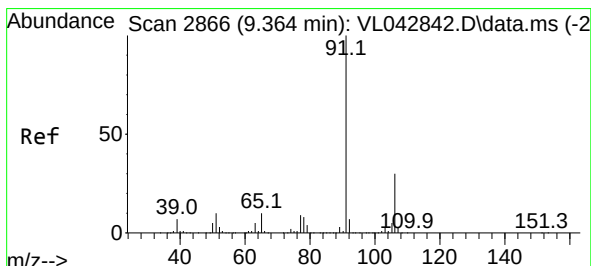
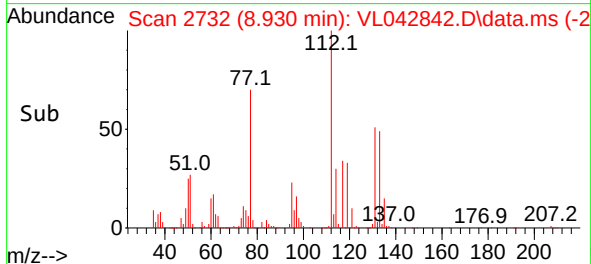
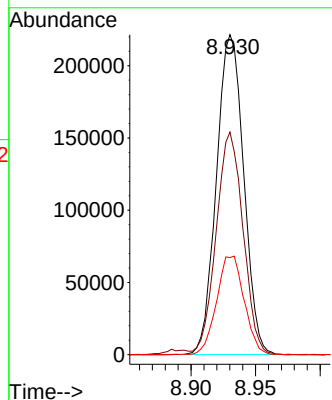
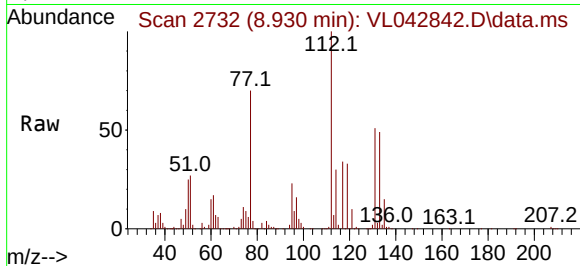




#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

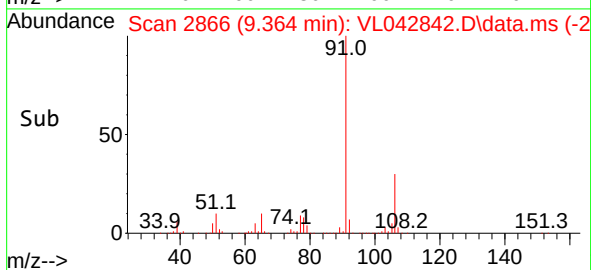
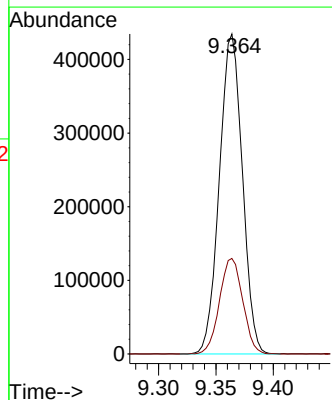
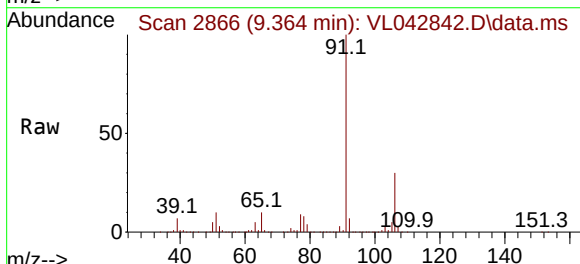
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

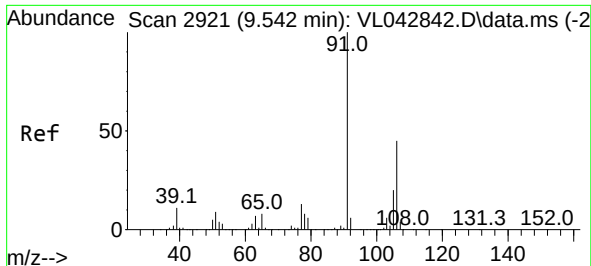
Tgt Ion:112 Resp: 325303
Ion Ratio Lower Upper
112 100
77 69.4 55.5 83.3
114 30.2 27.2 33.2



#58
Ethyl Benzene
Concen: 9.268 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9

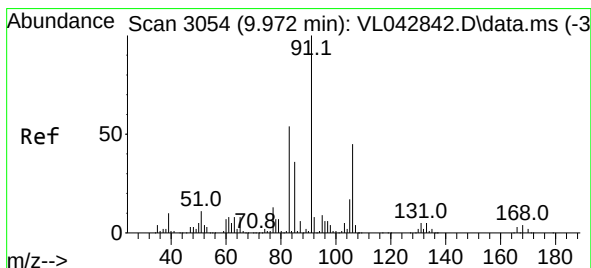
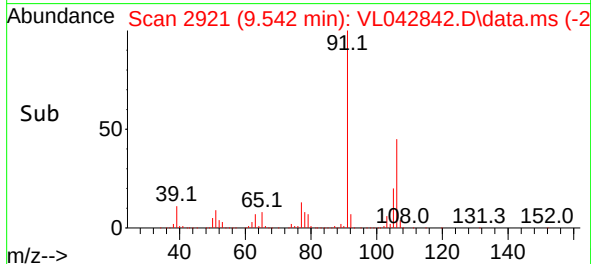
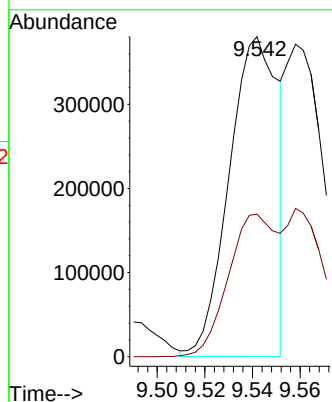
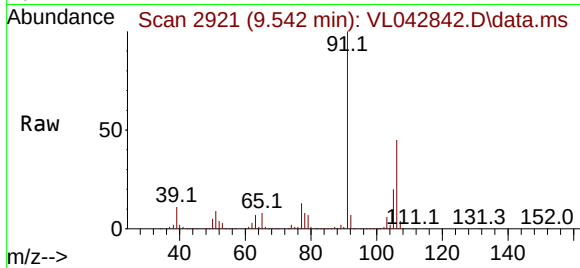




#59
m/p-Xylene
Concen: 10.505 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

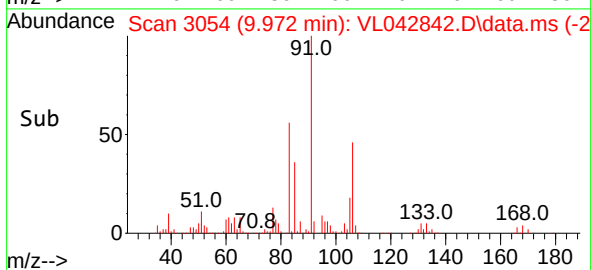
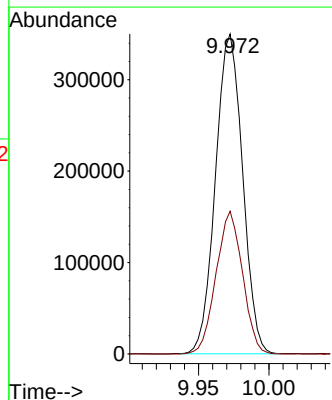
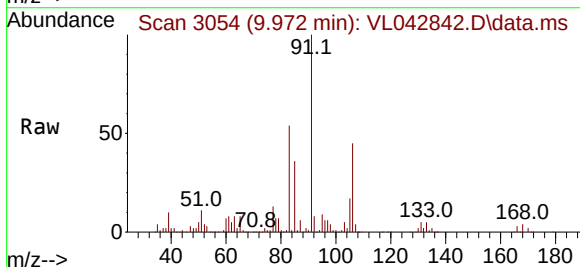
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

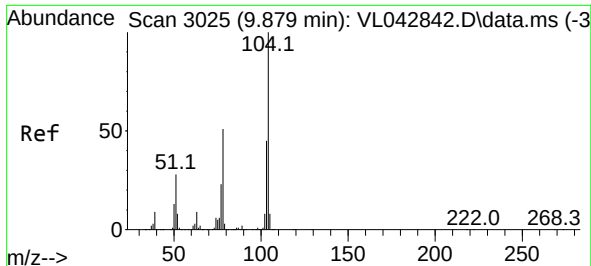
Tgt Ion: 91 Resp: 539072
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 9.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 469073
Ion Ratio Lower Upper
91 100
106 43.6 21.8 65.4

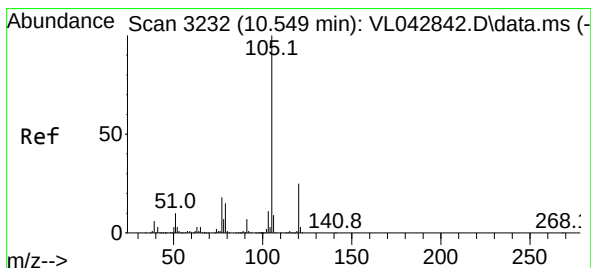
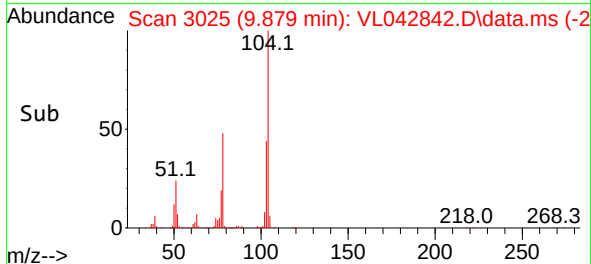
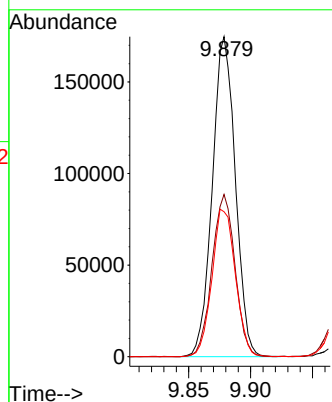
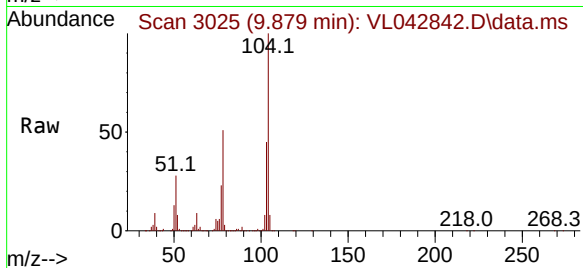




#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

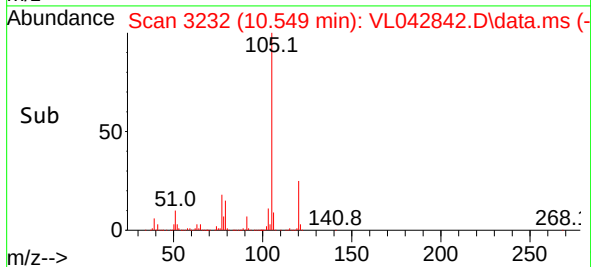
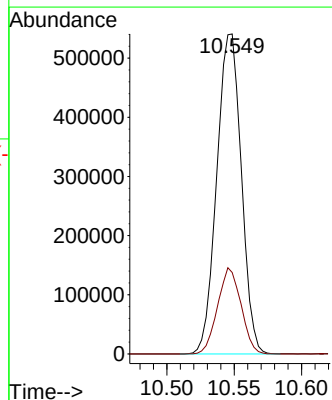
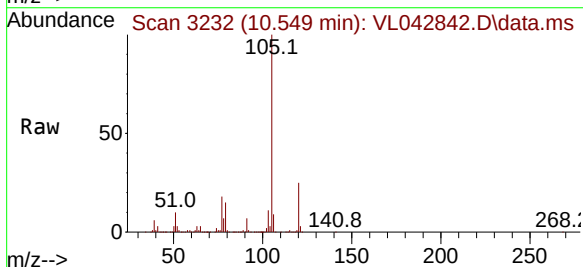
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

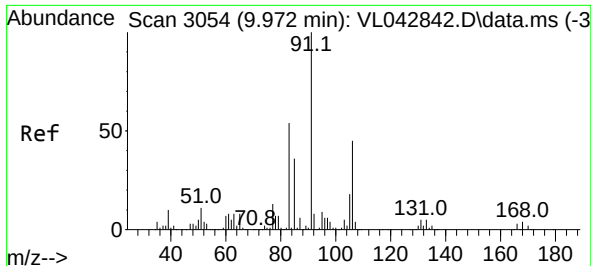
Tgt Ion:104 Resp: 226056
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 47.1 37.7 56.5



#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 685983
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8

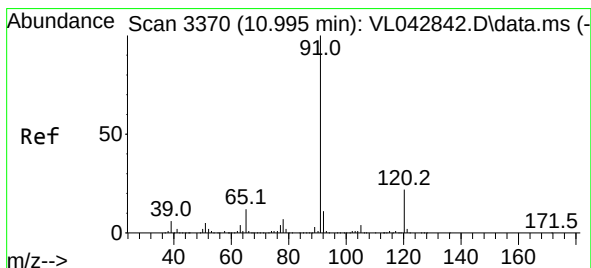
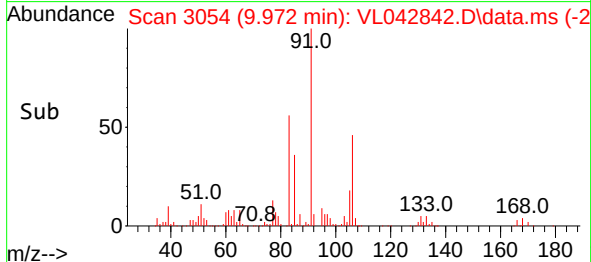
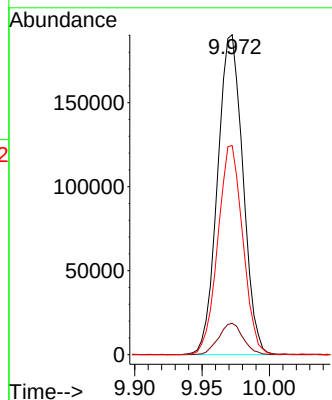
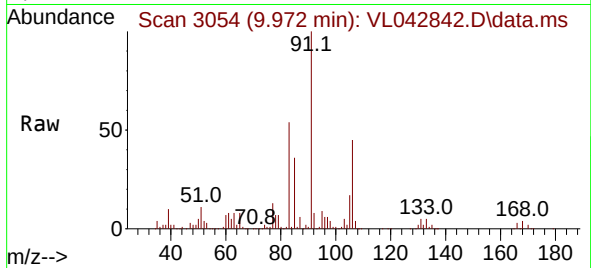




#63
1,1,2,2-Tetrachloroethane
Concen: 8.870 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

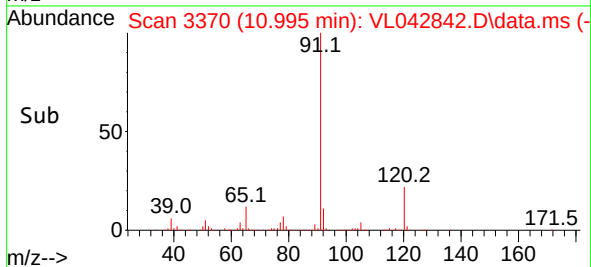
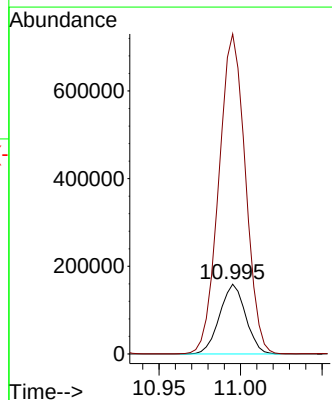
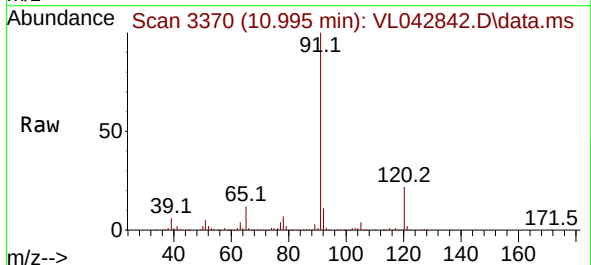
Instrument : MSVOA_1
ClientSampleId : VSTDICCC010

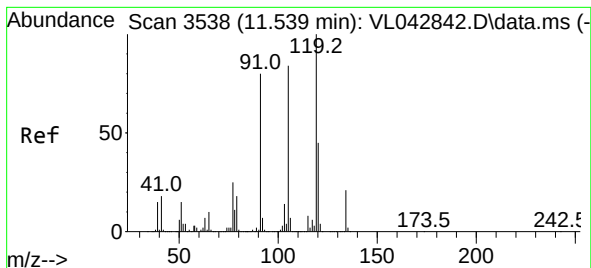
Tgt Ion: 83 Resp: 249621
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.5 32.3 96.8



#64
n-propylbenzene
Concen: 9.158 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 120 Resp: 175986
Ion Ratio Lower Upper
120 100
91 469.7 375.8 563.6

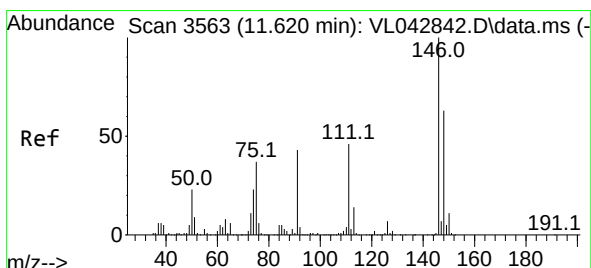
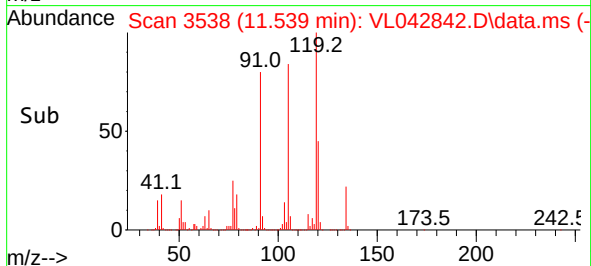
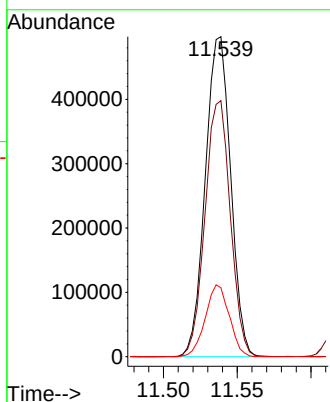
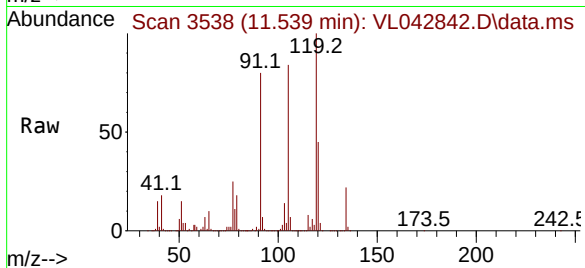




#65
tert-Butylbenzene
Concen: 8.951 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

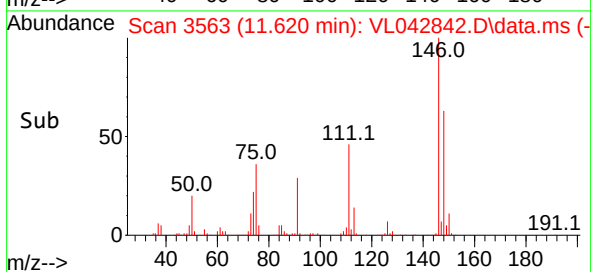
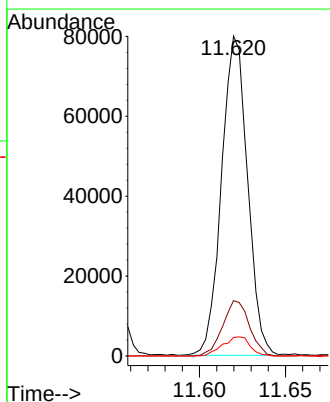
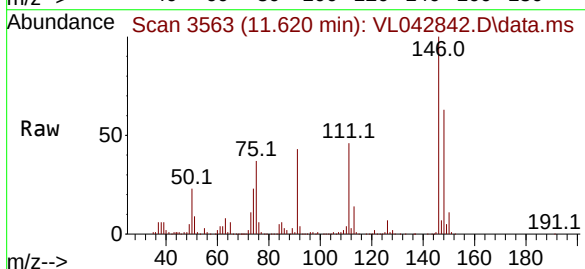
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

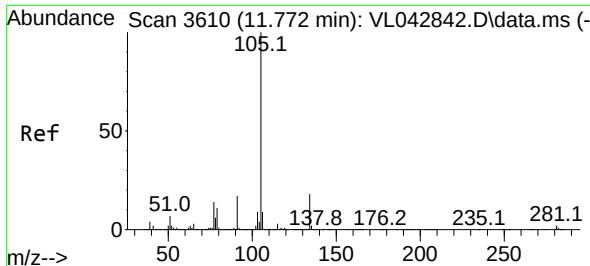
Tgt Ion:119 Resp: 594314
Ion Ratio Lower Upper
119 100
91 79.9 63.9 95.9
134 21.2 17.0 25.4



#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 84156
Ion Ratio Lower Upper
91 100
126 17.8 14.2 21.4
128 6.3 5.0 7.6





#67

sec-Butylbenzene

Concen: 8.943 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

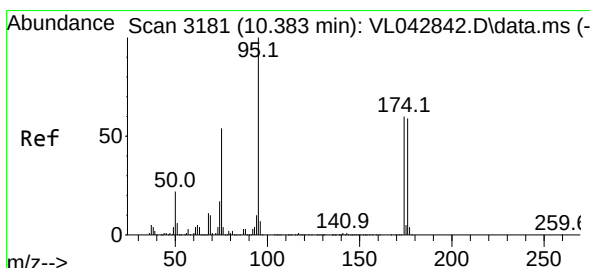
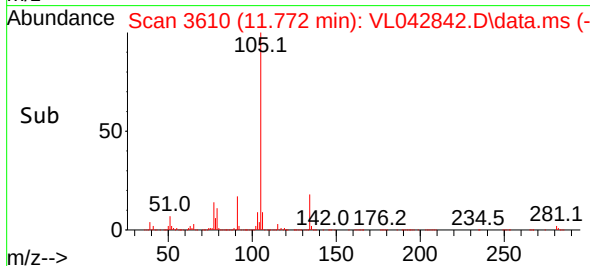
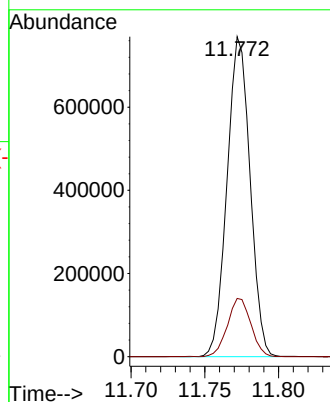
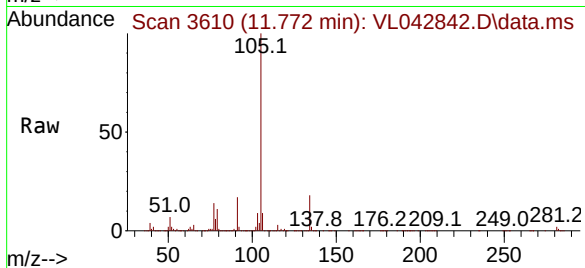
VSTDICCC010

Tgt Ion:105 Resp: 833378

Ion Ratio Lower Upper

105 100

134 18.6 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.064 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

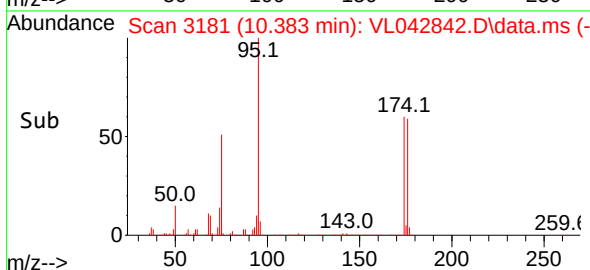
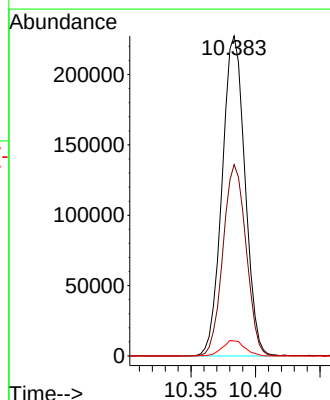
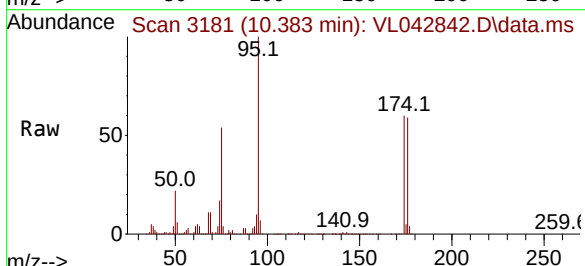
Tgt Ion: 95 Resp: 279557

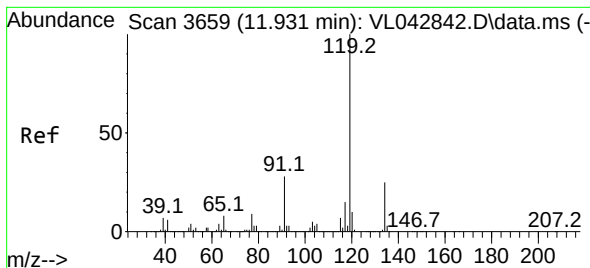
Ion Ratio Lower Upper

95 100

174 60.5 48.4 72.6

175 4.8 3.8 5.8

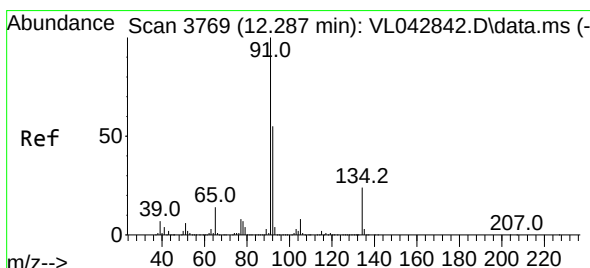
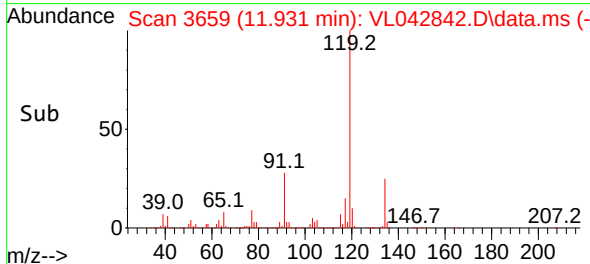
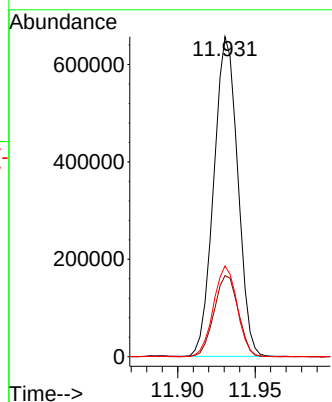
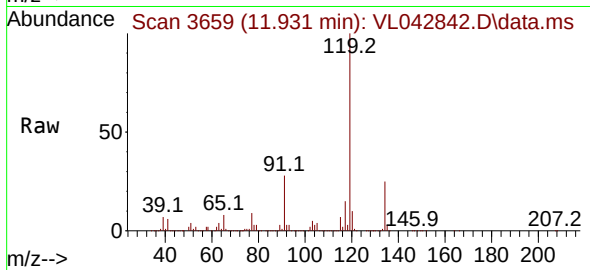




#69
 p-Isopropyltoluene
 Concen: 8.820 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

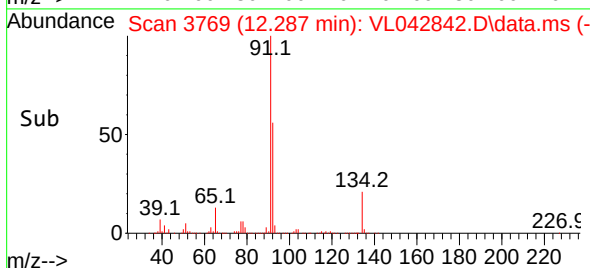
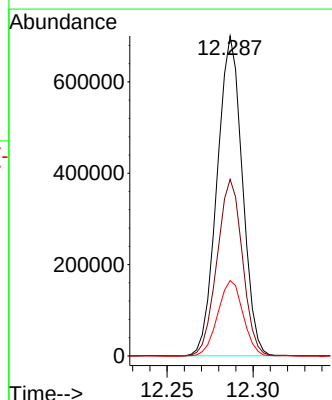
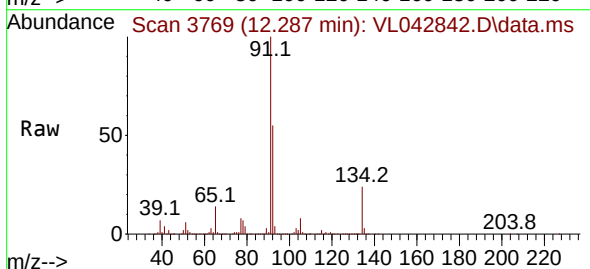
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

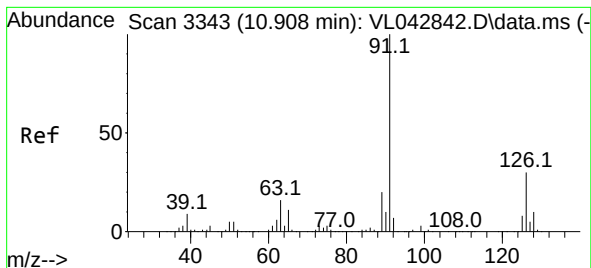
Tgt Ion:119 Resp: 705700
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.6 30.8
 91 28.3 22.6 34.0



#70
 n-Butylbenzene
 Concen: 8.995 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 713713
 Ion Ratio Lower Upper
 91 100
 92 55.7 44.6 66.8
 134 23.7 19.0 28.4





#71

2-Chlorotoluene

Concen: 8.981 ppbv

RT: 10.908 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

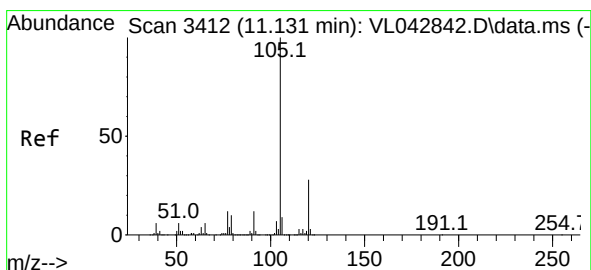
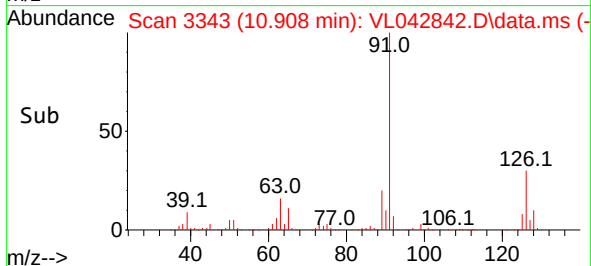
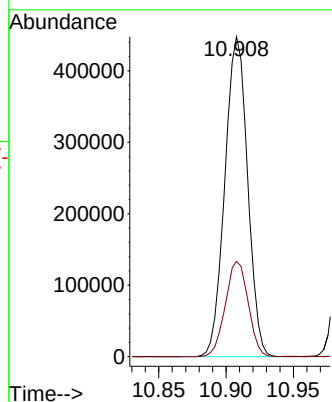
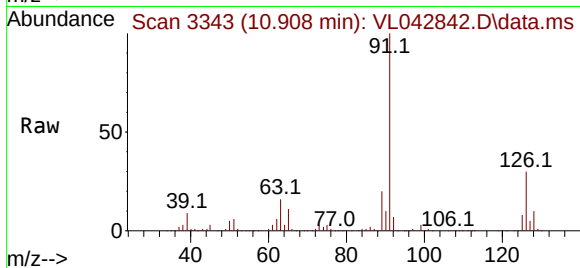
VSTDICCC010

Tgt Ion: 91 Resp: 525235

Ion Ratio Lower Upper

91 100

126 29.9 12.0 47.8



#72

4-Ethyltoluene

Concen: 9.267 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 105 Resp: 578931

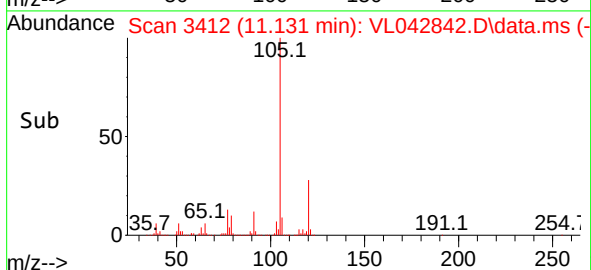
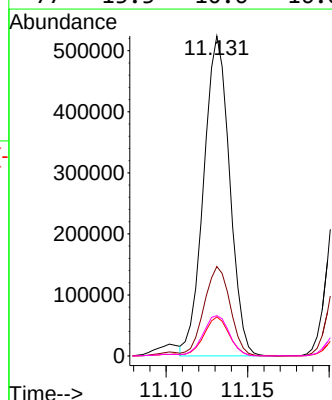
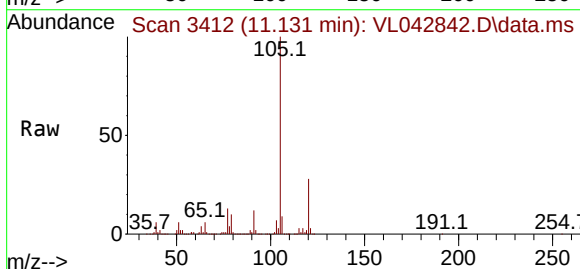
Ion Ratio Lower Upper

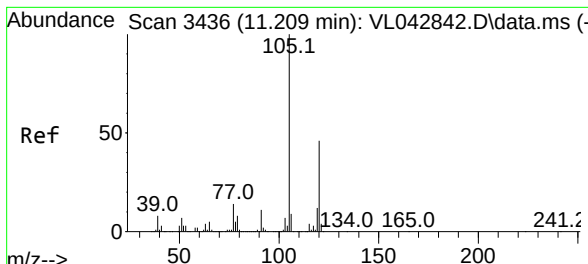
105 100

120 29.3 23.4 35.2

91 12.2 9.8 14.6

77 13.3 10.6 16.0



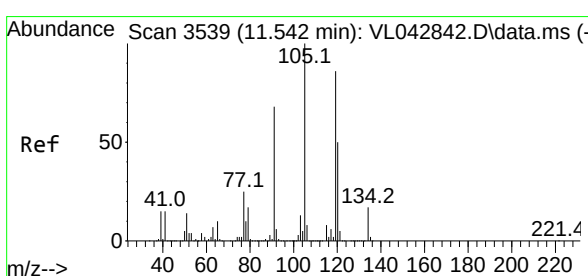
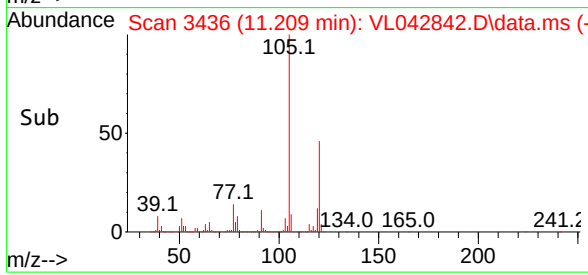
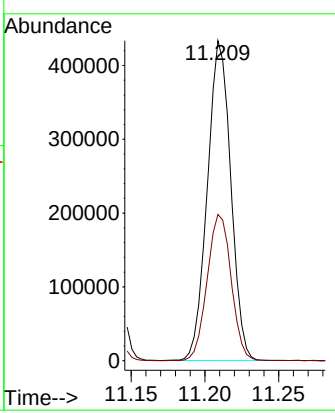
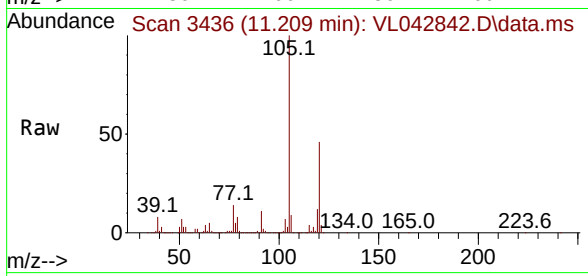


#73
 1,3,5-Trimethylbenzene
 Concen: 9.012 ppbv
 RT: 11.209 min Scan# 3436
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument : MSVOA_1
 ClientSampleId : VSTDICCC010

Tgt Ion:105 Resp: 478784

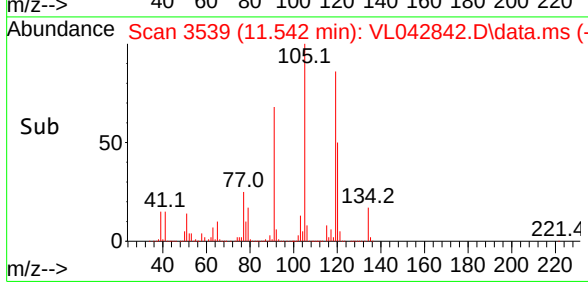
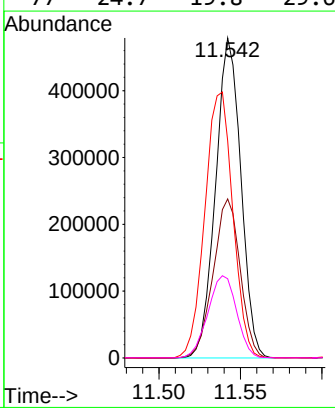
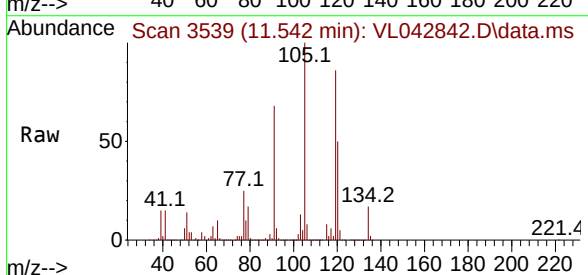
Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	54.8

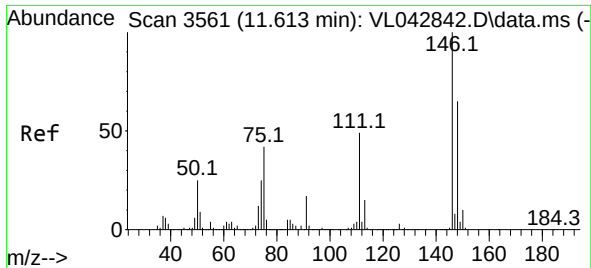


#74
 1,2,4-Trimethylbenzene
 Concen: 8.853 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 516253

Ion	Ratio	Lower	Upper
105	100		
120	49.7	39.8	59.6
91	67.8	54.2	81.4
77	24.7	19.8	29.6

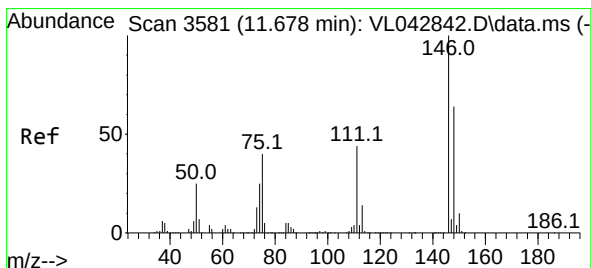
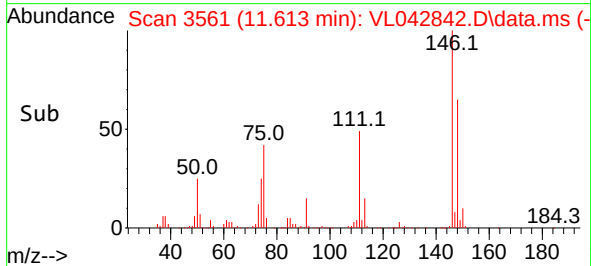
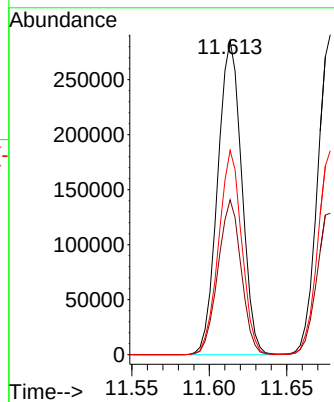
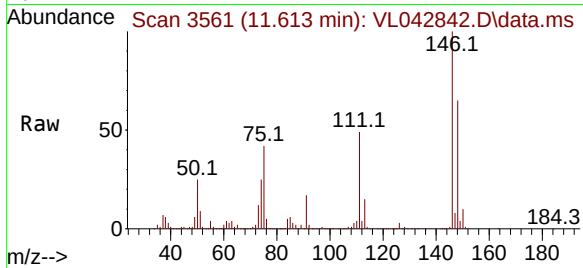




#75
1,3-Dichlorobenzene
Concen: 9.280 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

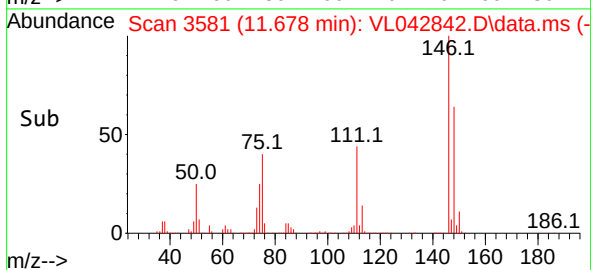
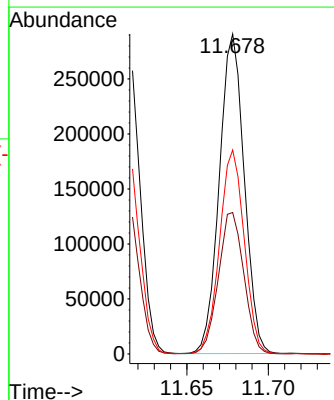
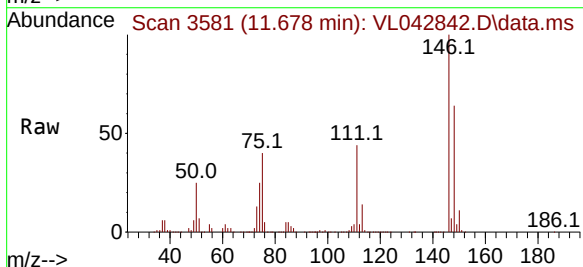
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

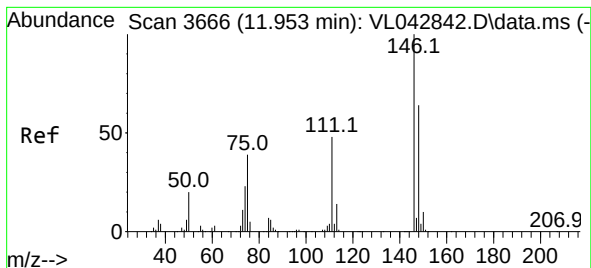
Tgt Ion:146 Resp: 307640
Ion Ratio Lower Upper
146 100
111 47.8 23.9 71.7
148 62.7 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 9.203 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:146 Resp: 308542
Ion Ratio Lower Upper
146 100
111 45.4 22.7 68.1
148 63.5 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.907 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

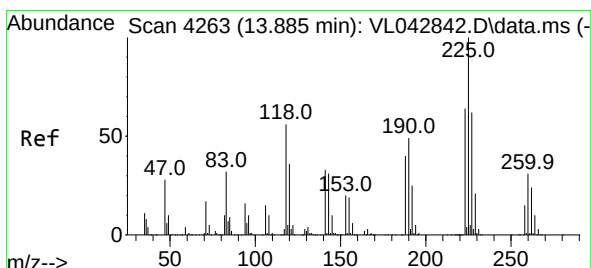
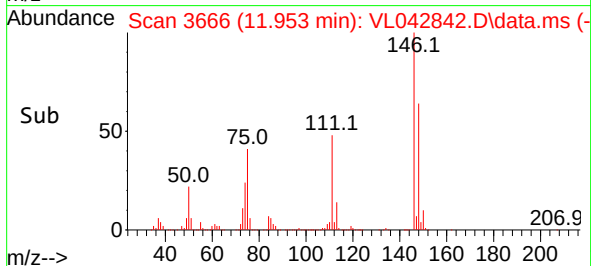
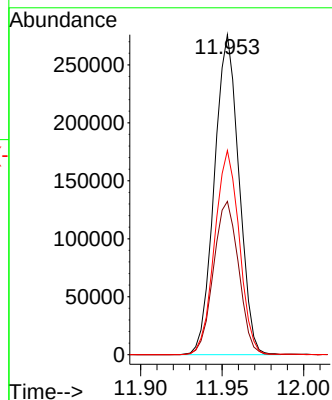
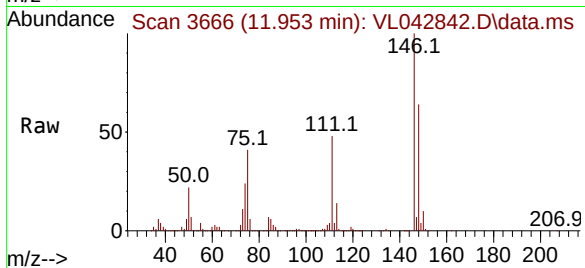
Tgt Ion:146 Resp: 289119

Ion Ratio Lower Upper

146 100

111 49.3 24.6 74.0

148 64.0 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 7.968 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

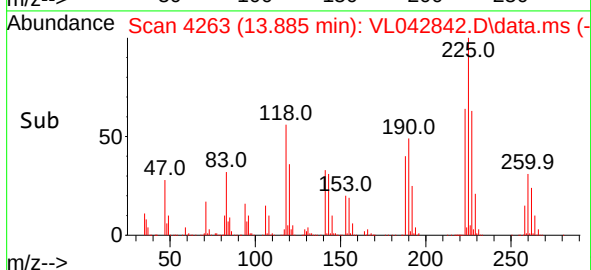
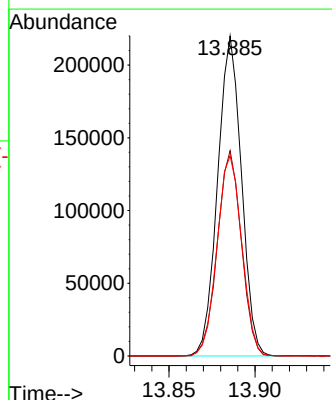
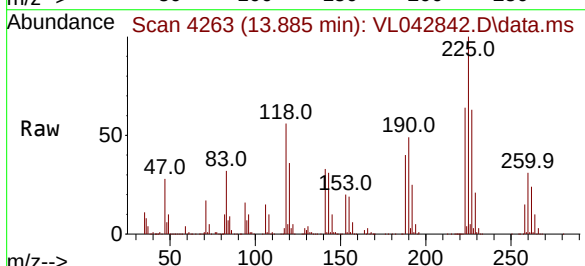
Tgt Ion:225 Resp: 211996

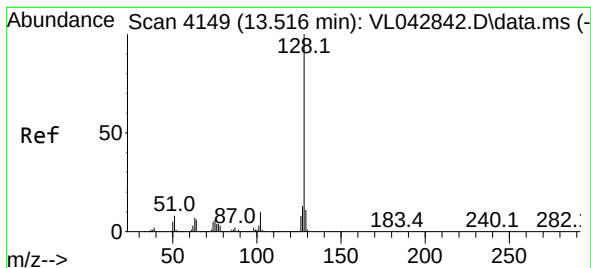
Ion Ratio Lower Upper

225 100

223 64.3 51.4 77.2

227 64.9 51.9 77.9





#79

Naphthalene

Concen: 9.335 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

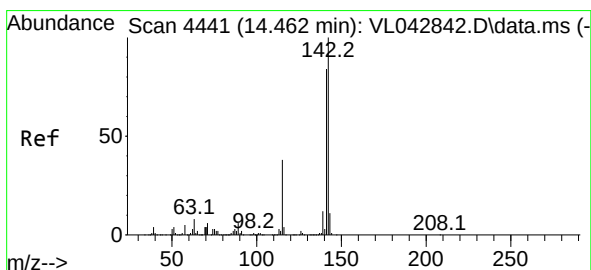
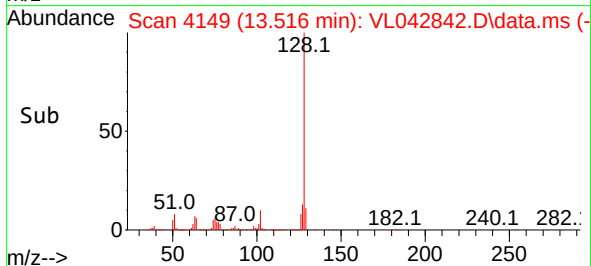
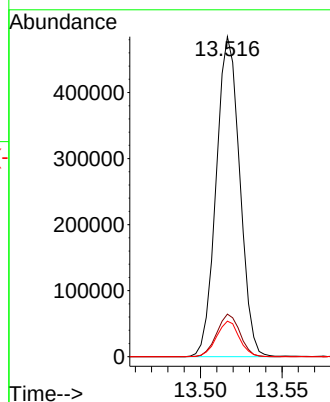
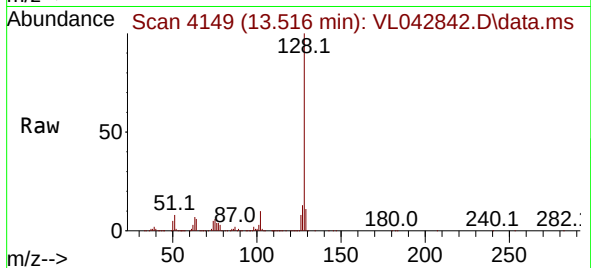
Tgt Ion:128 Resp: 487174

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

129 11.1 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 9.000 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

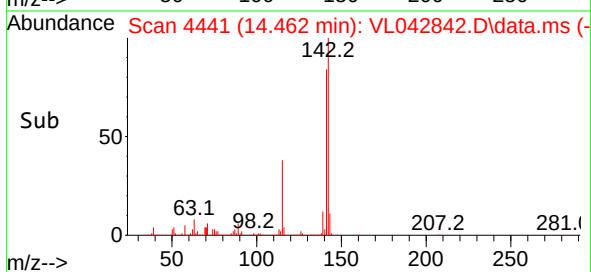
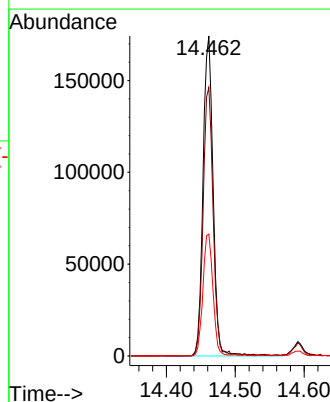
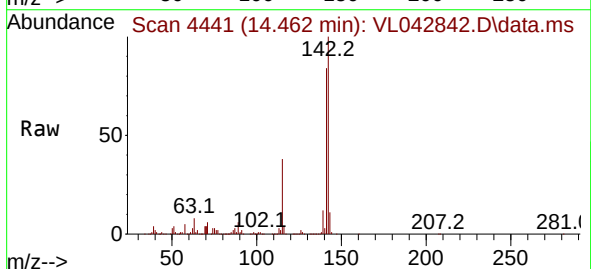
Tgt Ion:142 Resp: 176880

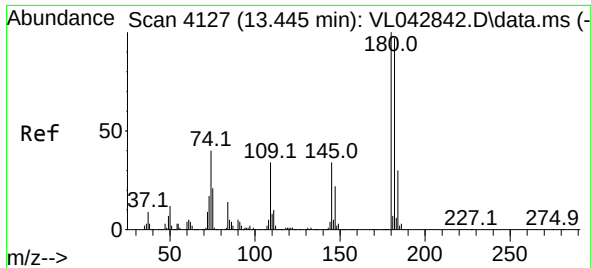
Ion Ratio Lower Upper

142 100

141 83.8 67.0 100.6

115 38.6 30.9 46.3

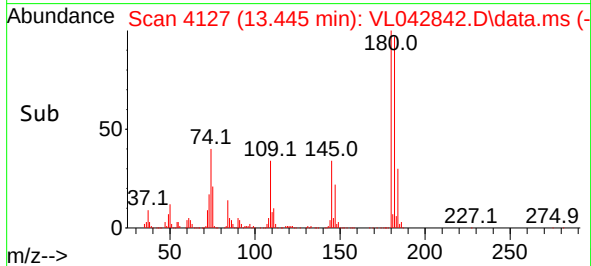
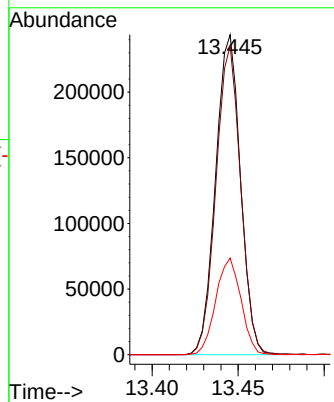
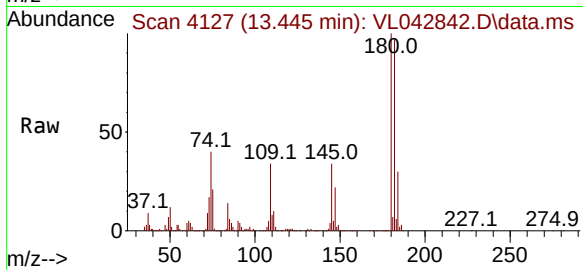




#81
 1,2,4-Trichlorobenzene
 Concen: 9.220 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:180 Resp: 244998
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.9 115.3
 184 30.6 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Aug 14 01:46:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	270774	9.923	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	2277	2.516	ppbv	93
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	11947	1.788	ppbv #	74
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	16511	1.030	ppbv #	1
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

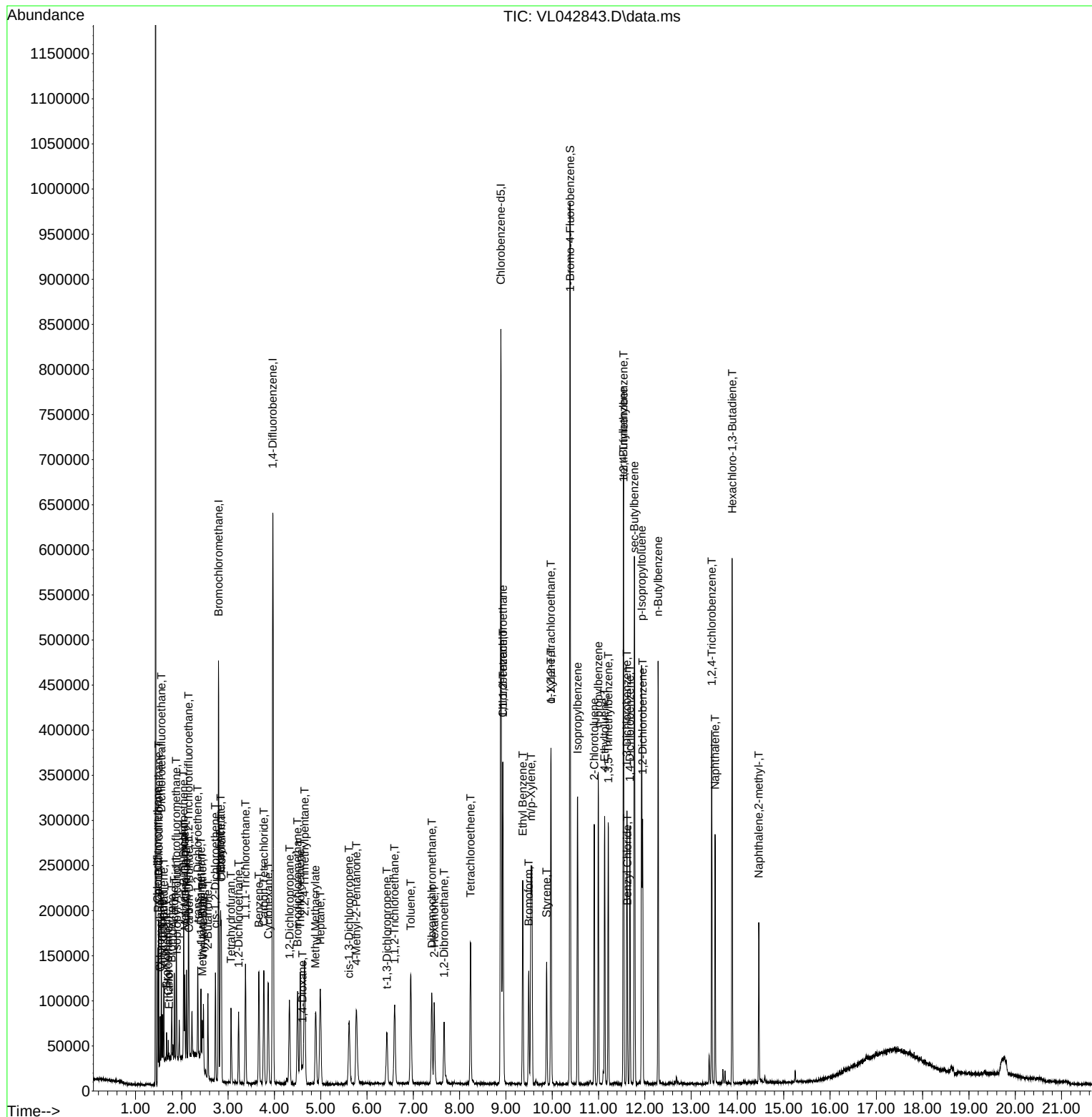
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

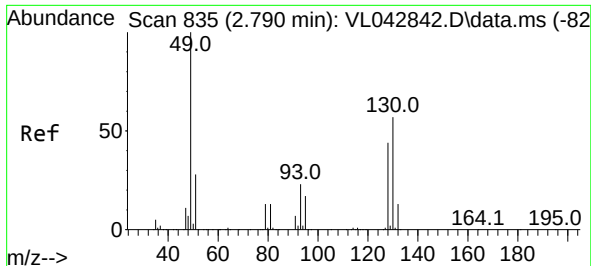
Quant Time: Aug 14 01:46:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	26940	1.180	ppbv	98
47) 1,1,2-Trichloroethane	6.593	97	22158	1.466	ppbv	91
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.542	91	100699	1.998	ppbv #	100
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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

Quant Time: Aug 14 01:46:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

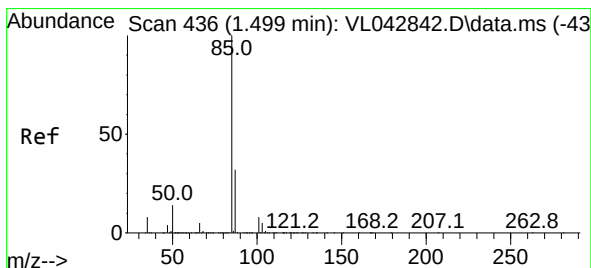
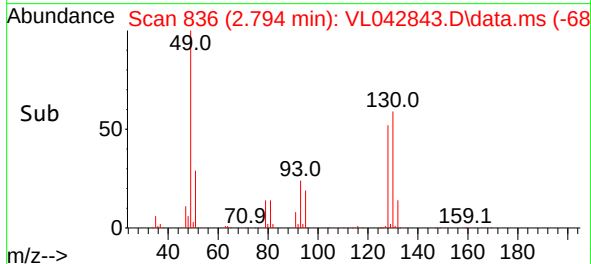
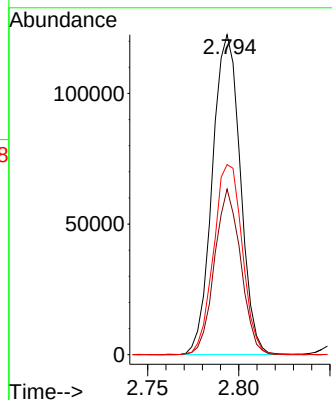
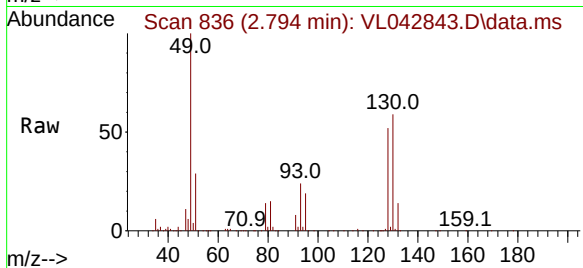




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. 0.004 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

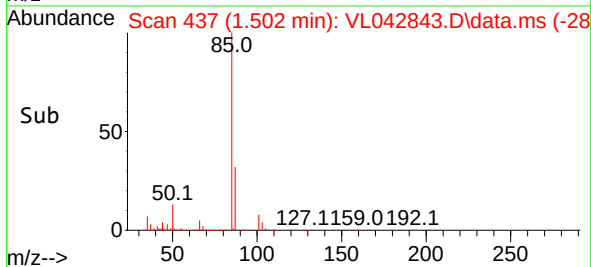
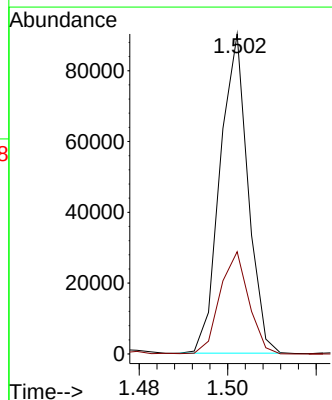
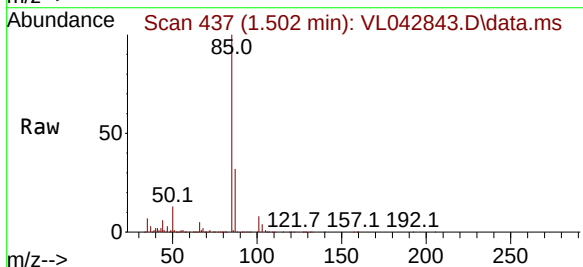
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

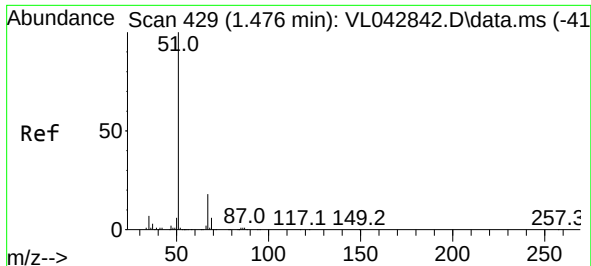
Tgt Ion: 49 Resp: 130555
 Ion Ratio Lower Upper
 49 100
 128 48.7 23.7 71.1
 130 61.3 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 2.061 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 39443
 Ion Ratio Lower Upper
 85 100
 87 32.0 25.3 37.9

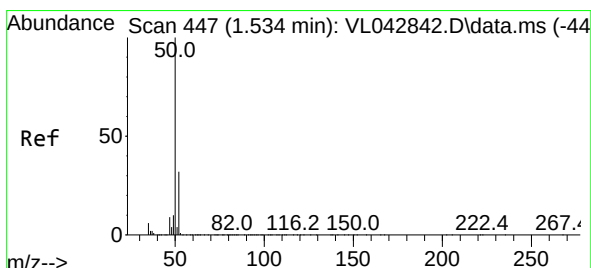
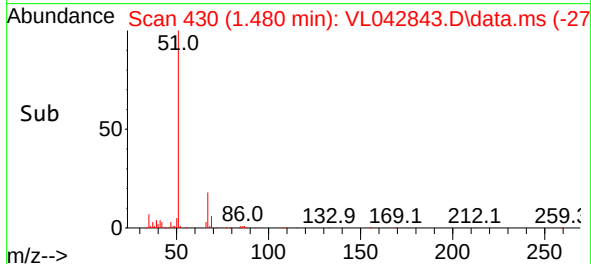
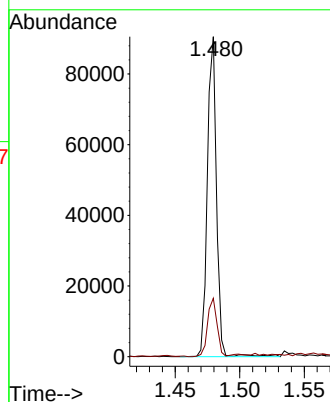
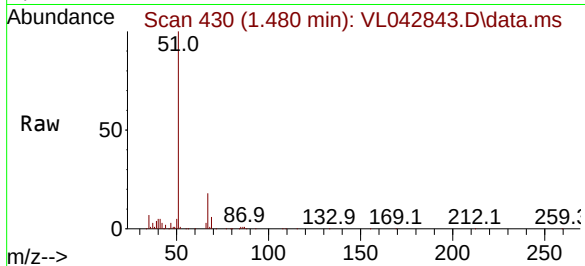




#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

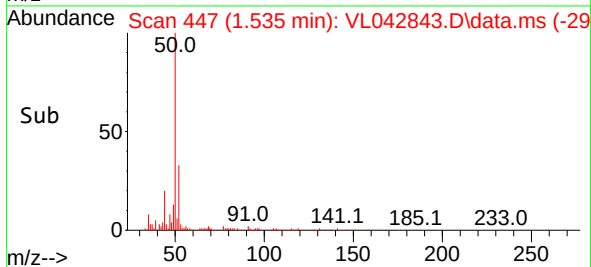
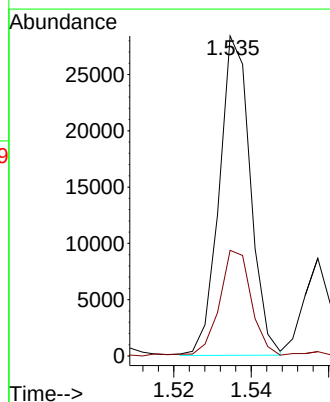
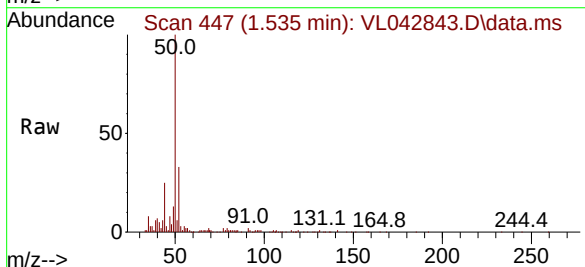
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

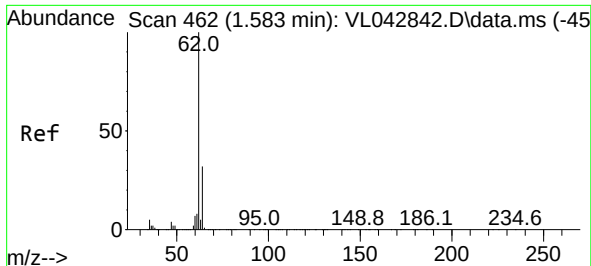
Tgt Ion: 51 Resp: 44759
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3



#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 50 Resp: 15826
Ion Ratio Lower Upper
50 100
52 33.0 25.9 38.9

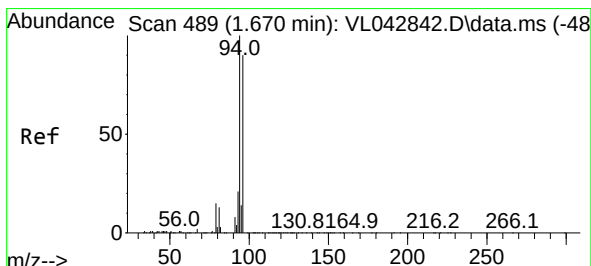
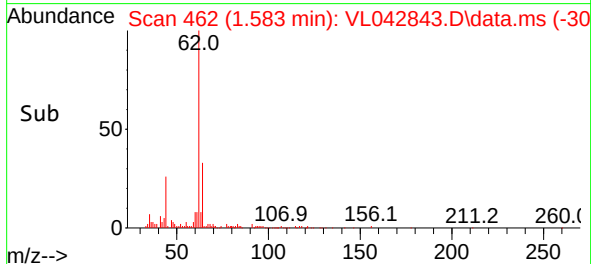
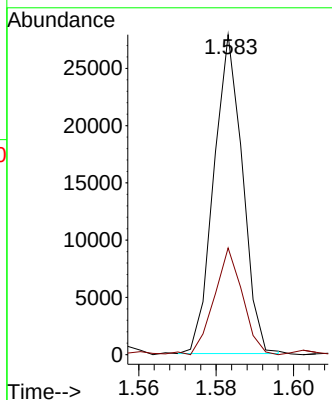
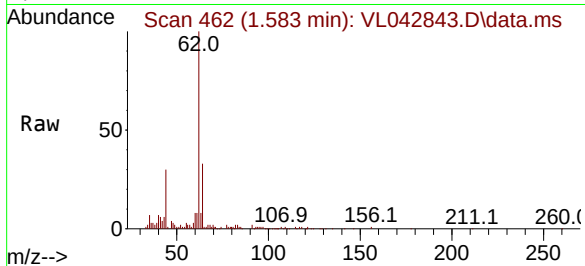




#5
 Vinyl Chloride
 Concen: 1.888 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

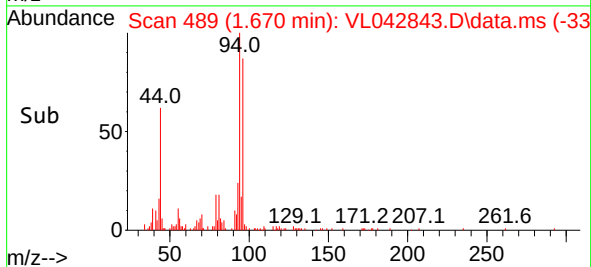
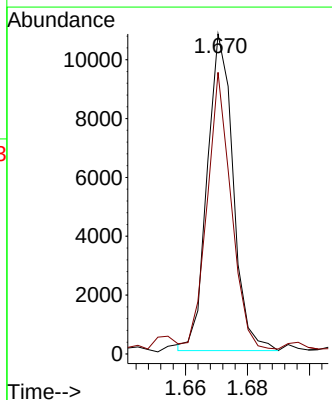
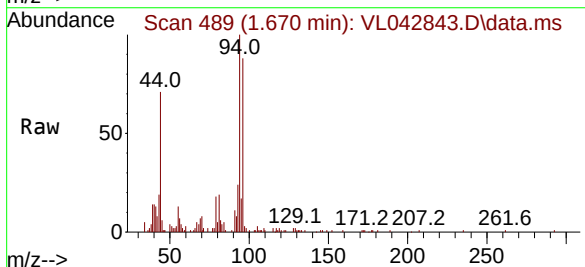
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

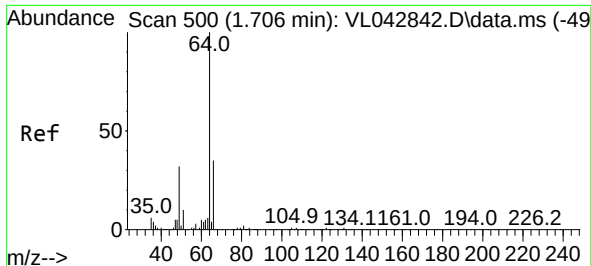
Tgt Ion: 62 Resp: 14358
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.2



#6
 Bromomethane
 Concen: 2.055 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 94 Resp: 6248
 Ion Ratio Lower Upper
 94 100
 96 87.4 72.1 108.1

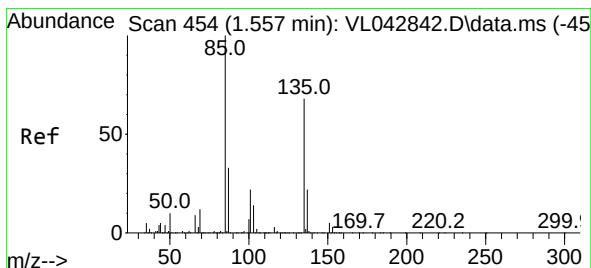
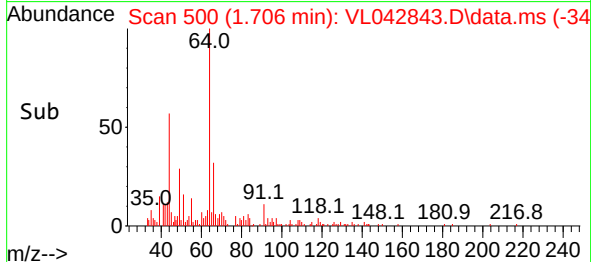
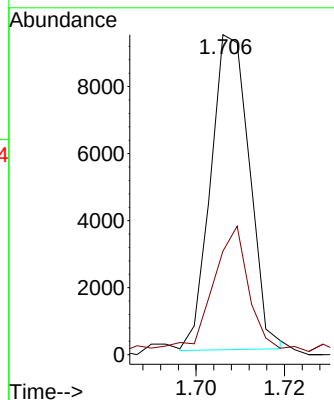
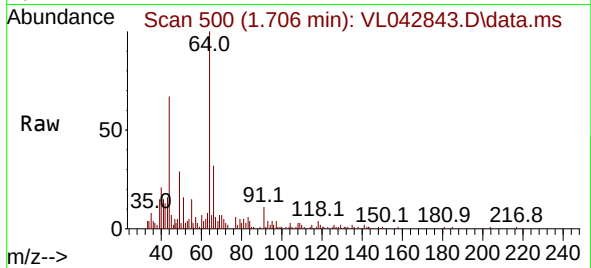




#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

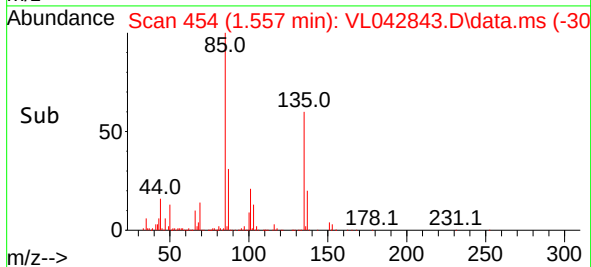
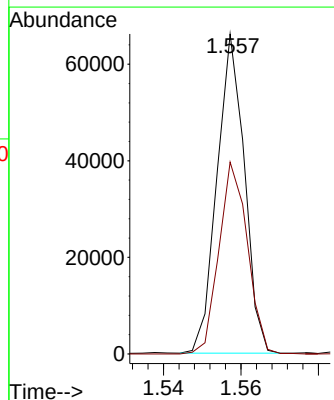
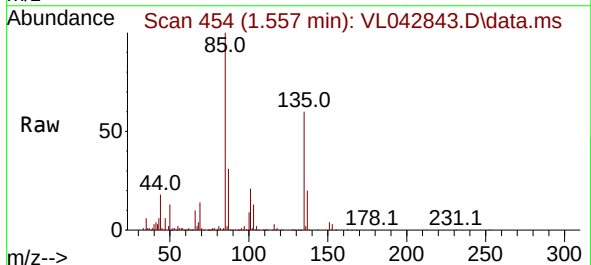
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

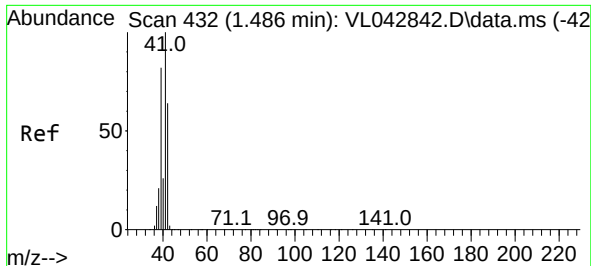
Tgt Ion: 64 Resp: 5717
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 32496
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8

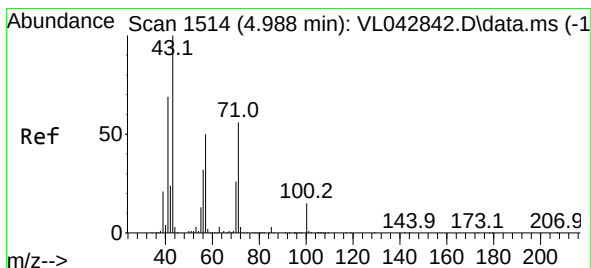
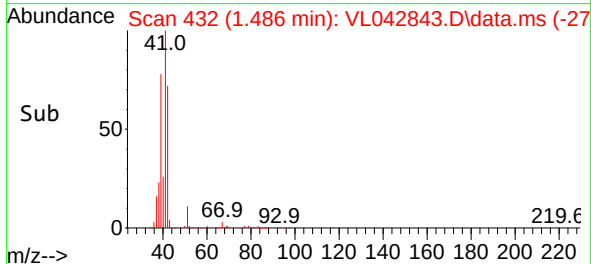
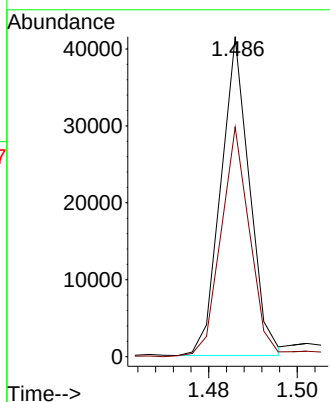
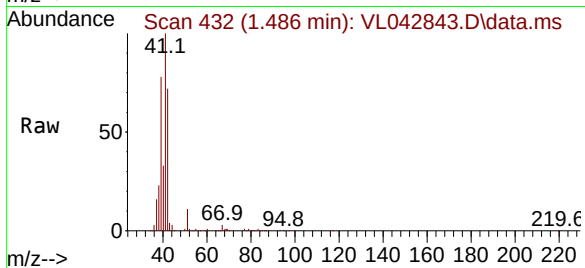




#9
Propene
Concen: 2.045 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

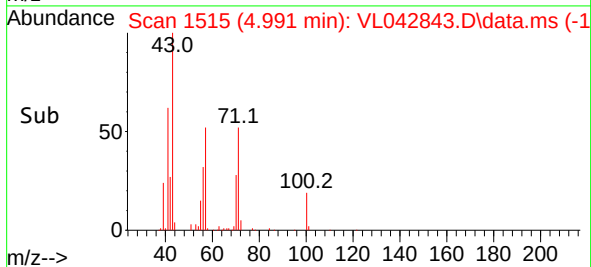
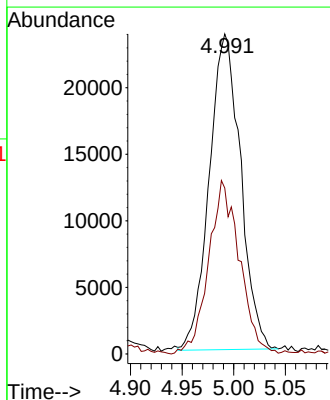
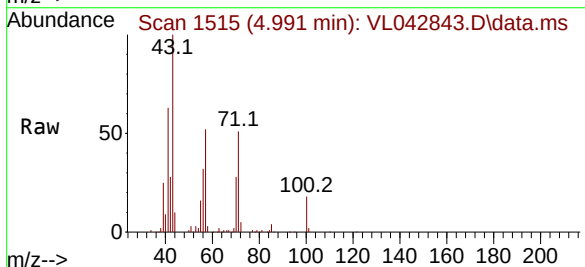
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

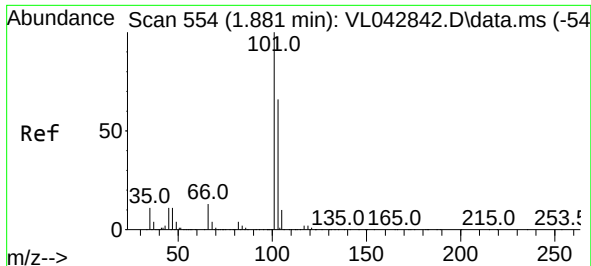
Tgt Ion: 41 Resp: 18678
Ion Ratio Lower Upper
41 100
42 74.8 53.0 79.4



#10
Heptane
Concen: 2.050 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 50062
Ion Ratio Lower Upper
43 100
57 54.1 41.4 62.0

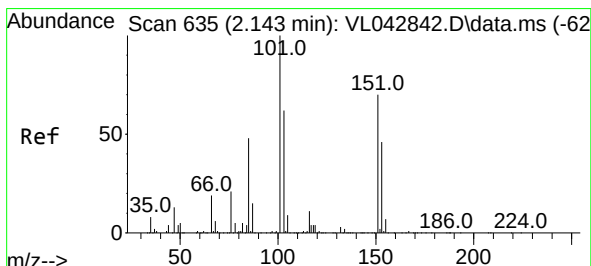
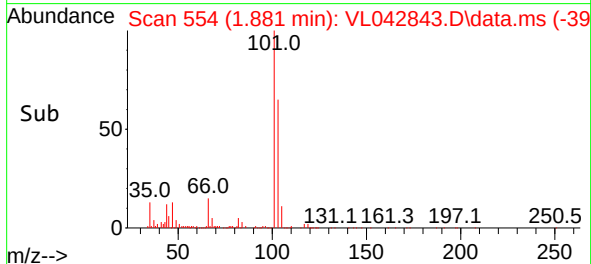
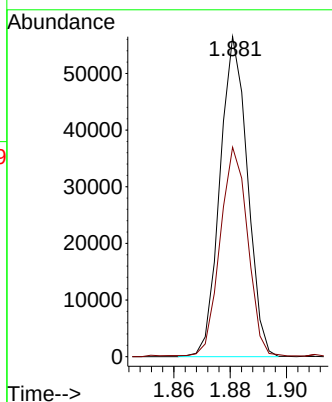
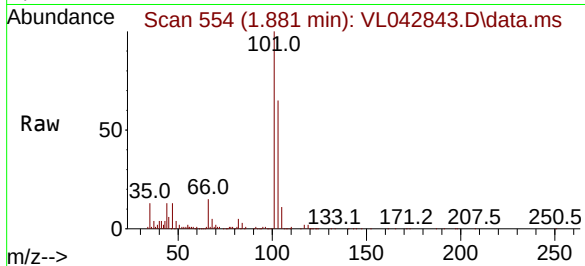




#11
 Trichlorofluoromethane
 Concen: 2.029 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

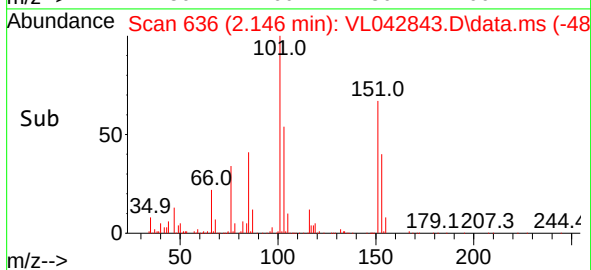
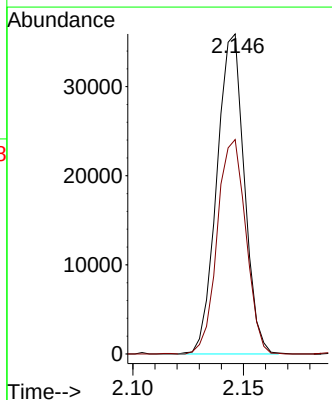
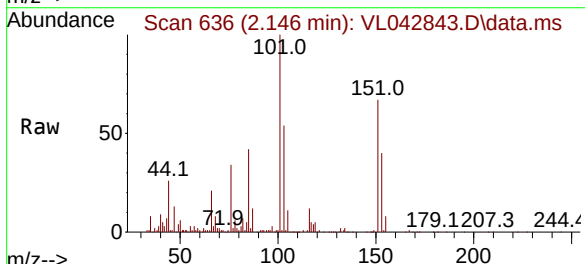
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

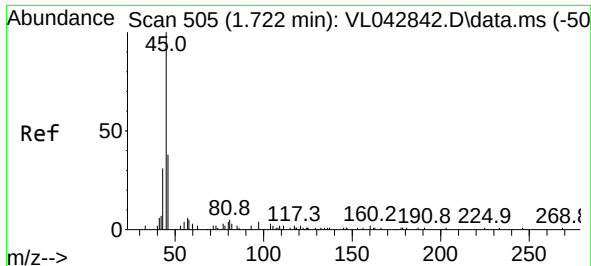
Tgt Ion:101 Resp: 38308
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.064 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:101 Resp: 31052
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6

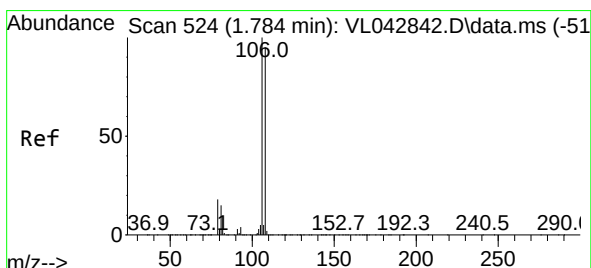
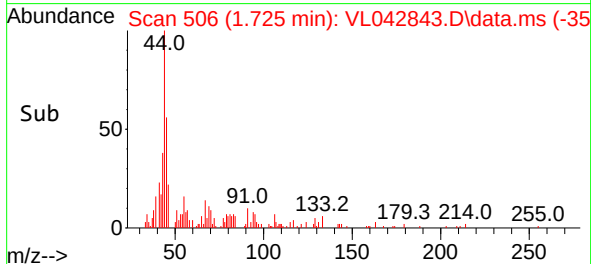
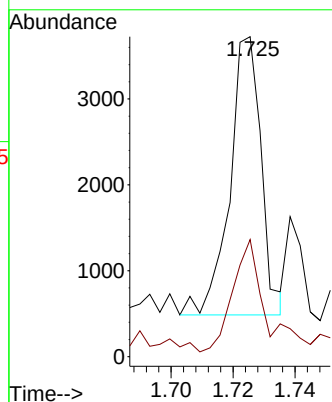
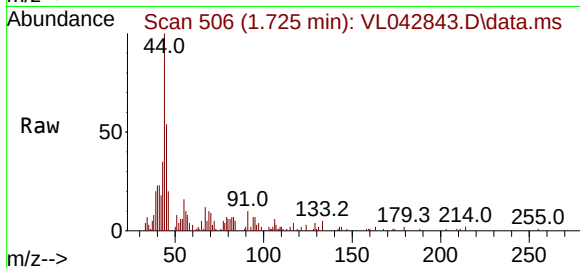




#13
Ethanol
Concen: 2.516 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

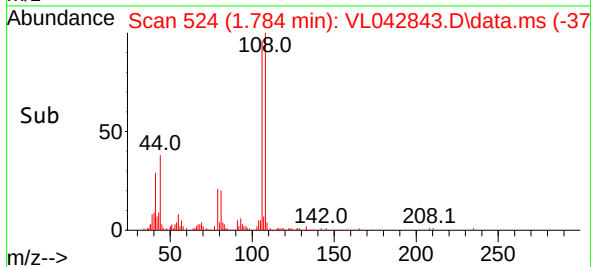
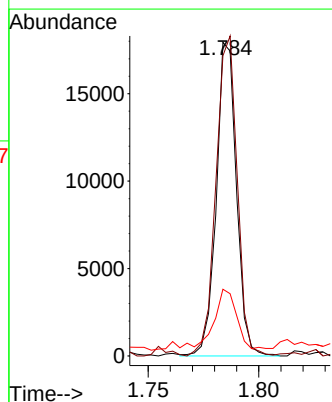
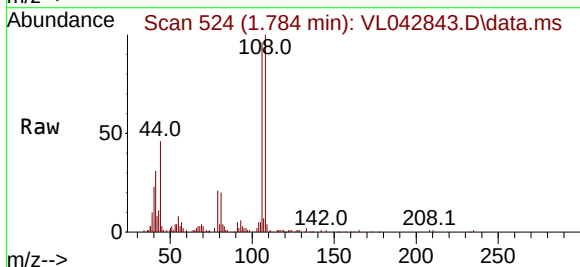
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

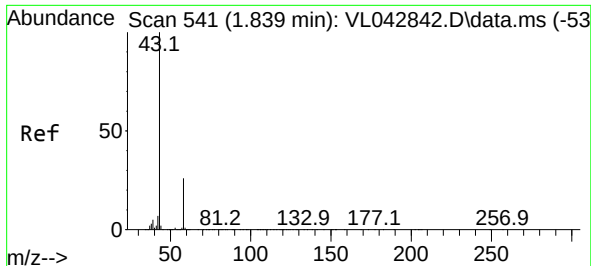
Tgt Ion: 45 Resp: 2277
Ion Ratio Lower Upper
45 100
46 48.3 17.5 69.9



#14
Bromoethene
Concen: 2.089 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 108 Resp: 11376
Ion Ratio Lower Upper
108 100
106 110.8 85.1 127.7
79 22.6 16.3 24.5





#15

Acetone

Concen: 2.231 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

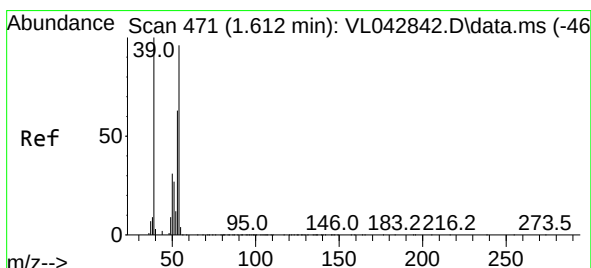
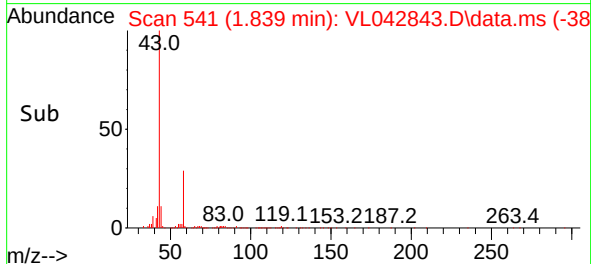
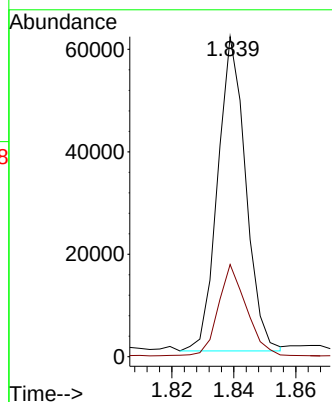
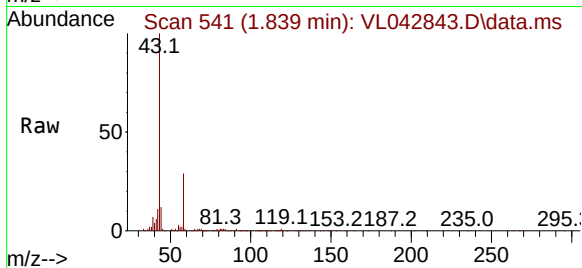
VSTDIC002

Tgt Ion: 43 Resp: 38531

Ion Ratio Lower Upper

43 100

58 30.3 22.4 33.6



#16

1,3-Butadiene

Concen: 1.932 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.000 min

Lab File: VL042843.D

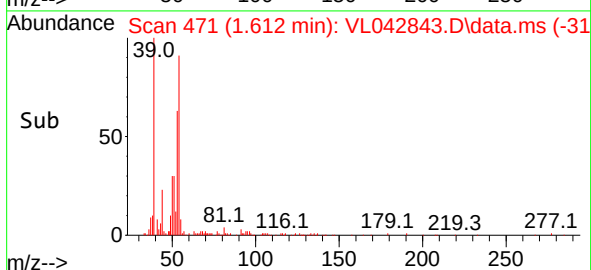
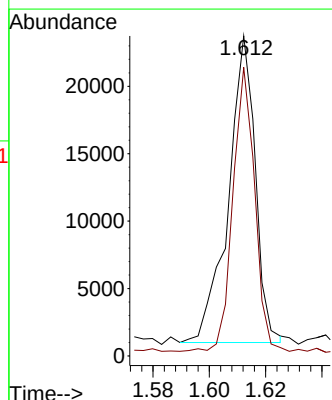
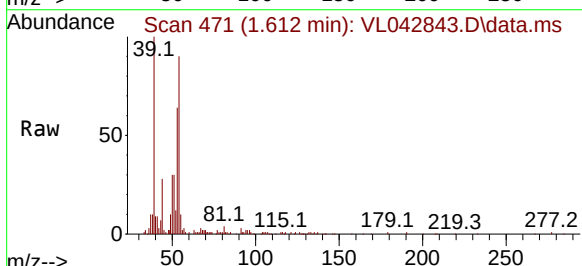
Acq: 13 Aug 2025 09:06

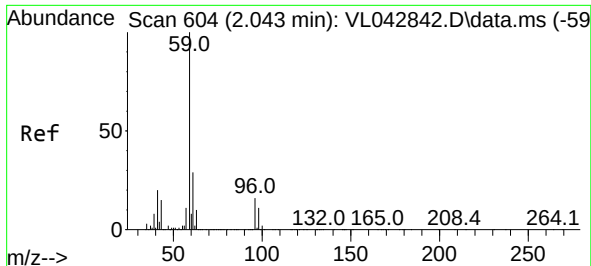
Tgt Ion: 39 Resp: 15122

Ion Ratio Lower Upper

39 100

54 80.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.985 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

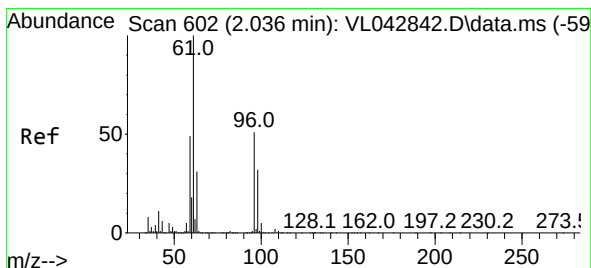
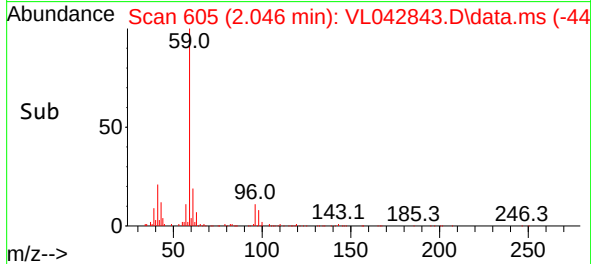
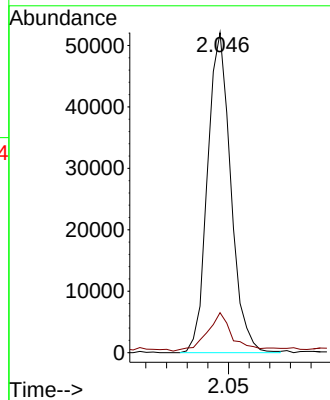
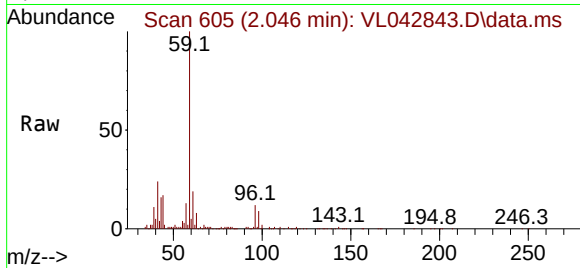
VSTDIC002

Tgt Ion: 59 Resp: 40652

Ion Ratio Lower Upper

59 100

57 12.4 9.0 13.4



#18

1,1-Dichloroethene

Concen: 2.099 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

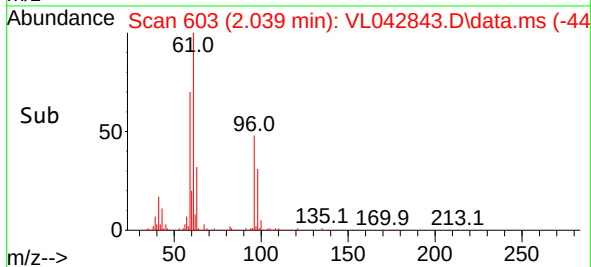
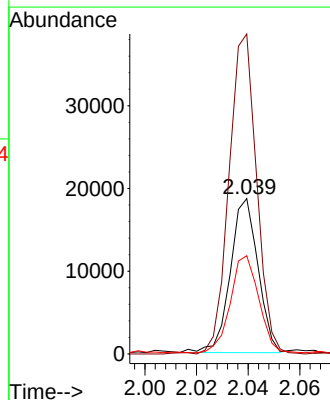
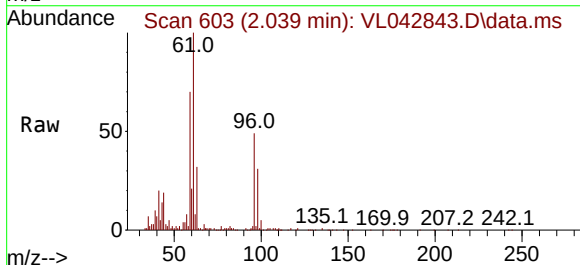
Tgt Ion: 96 Resp: 13883

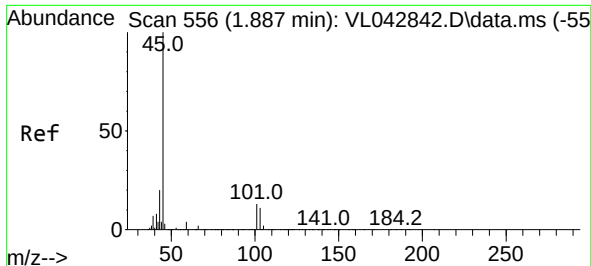
Ion Ratio Lower Upper

96 100

61 207.1 158.2 237.4

98 62.6 50.6 76.0

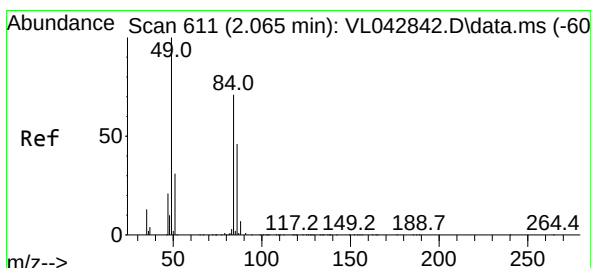
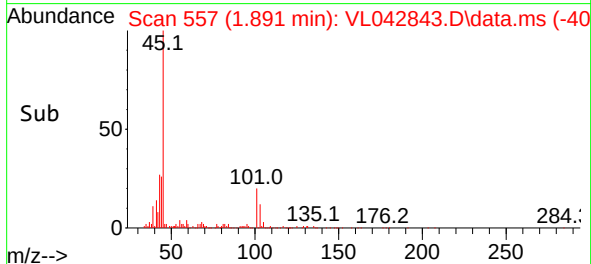
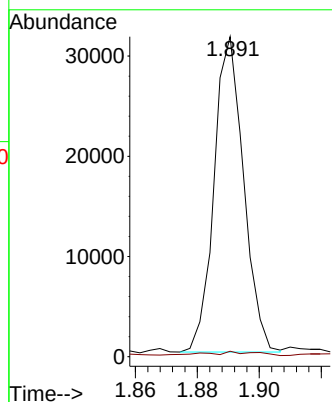
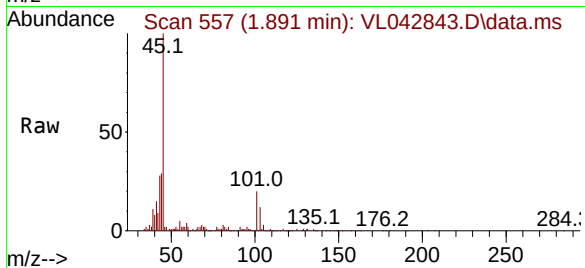




#19
Isopropyl Alcohol
Concen: 2.023 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

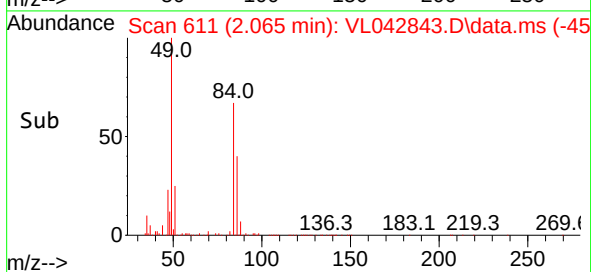
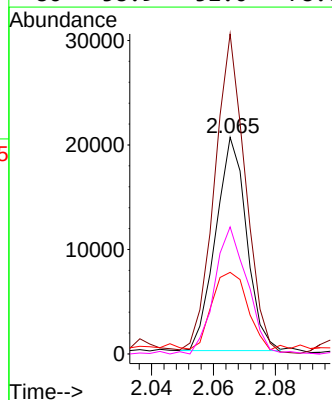
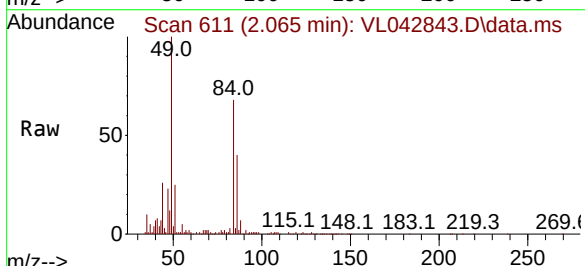
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

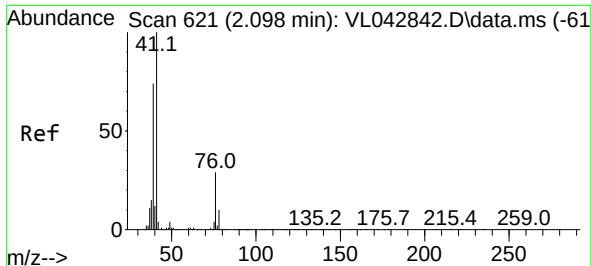
Tgt Ion: 45 Resp: 20866
Ion Ratio Lower Upper
45 100
58 3.1 32.7 49.1#



#20
Methylene Chloride
Concen: 1.963 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 84 Resp: 14204
Ion Ratio Lower Upper
84 100
49 148.1 112.3 168.5
51 35.3 36.0 54.0#
86 58.9 52.0 78.0





#21

Allyl Chloride

Concen: 2.021 ppbv

RT: 2.101 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

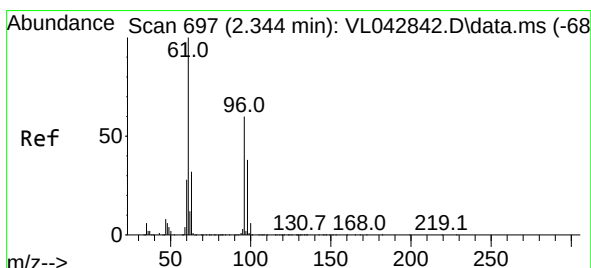
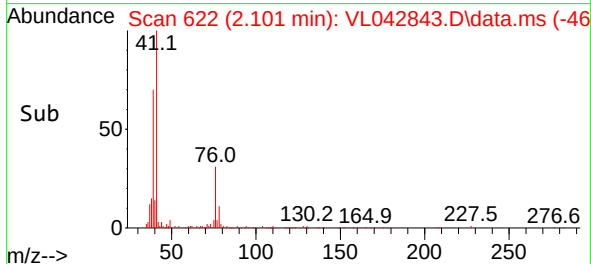
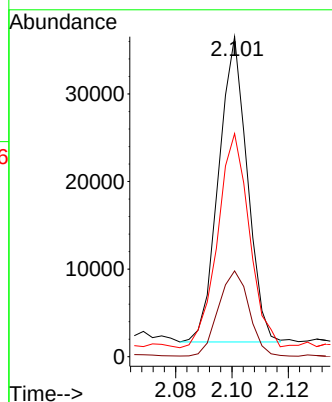
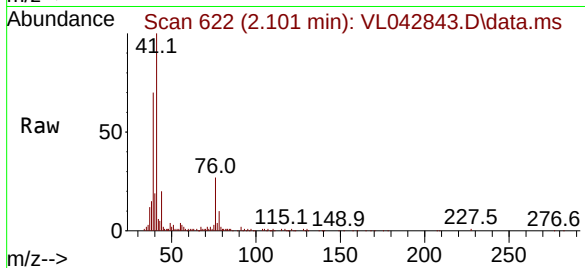
Tgt Ion: 41 Resp: 24662

Ion Ratio Lower Upper

41 100

76 31.2 23.9 35.9

39 76.0 57.8 86.6



#22

trans-1,2-Dichloroethene

Concen: 2.132 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

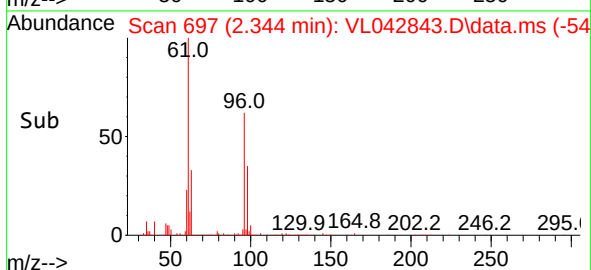
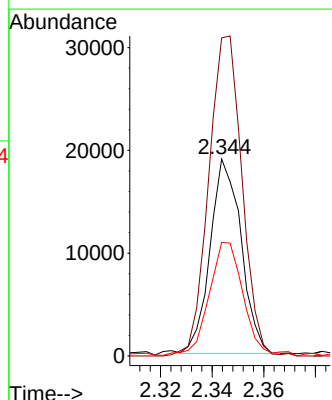
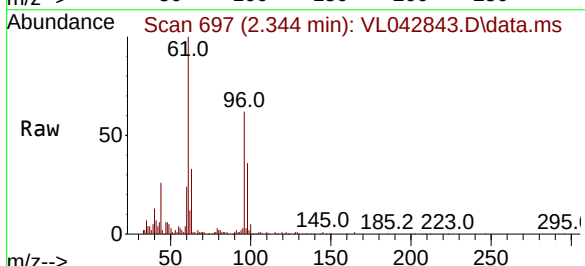
Tgt Ion: 96 Resp: 15773

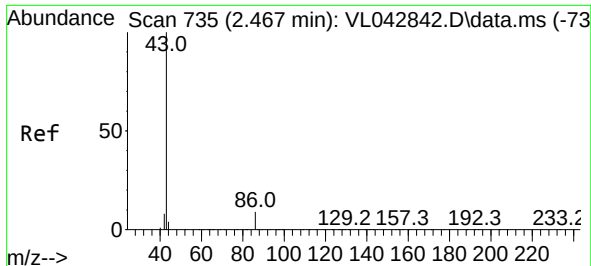
Ion Ratio Lower Upper

96 100

61 162.8 132.6 199.0

98 56.7 50.0 75.0

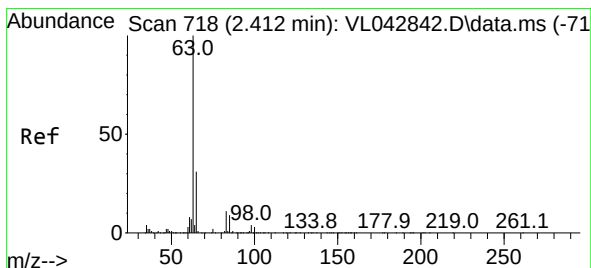
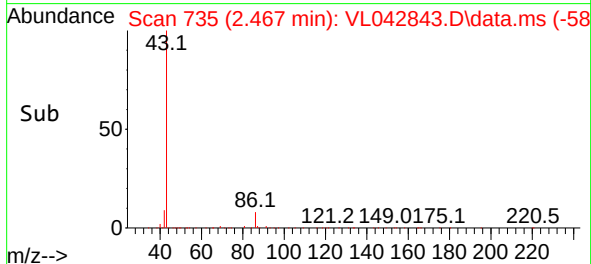
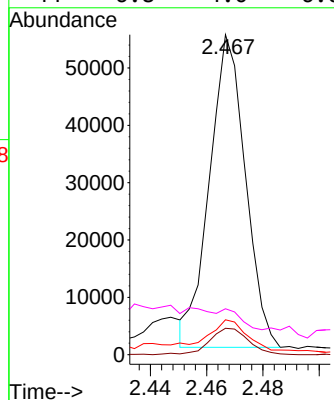
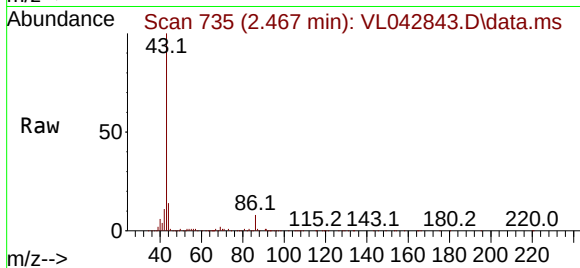




#23
 Vinyl Acetate
 Concen: 2.125 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

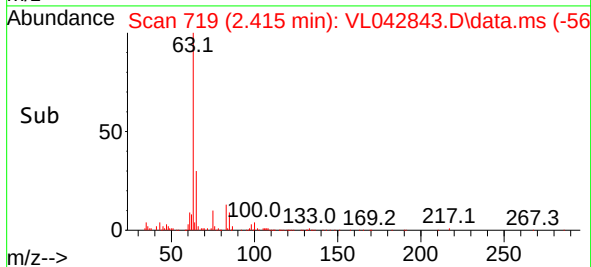
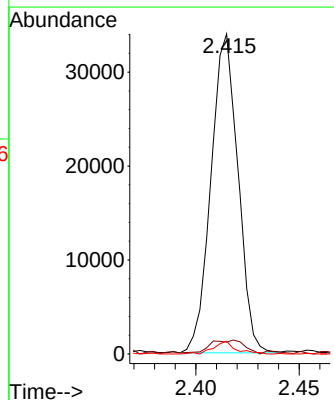
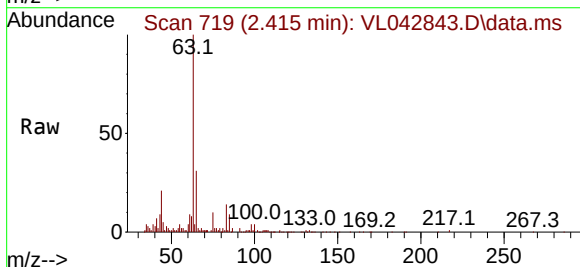
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

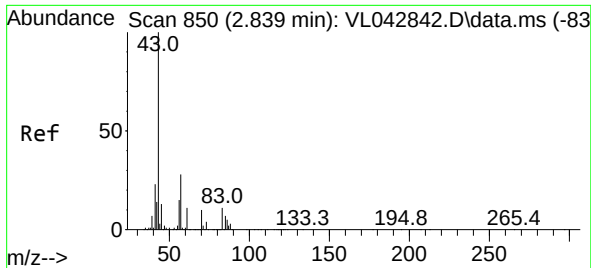
Tgt Ion:	43	Resp:	48269
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	9.7	7.0	10.6
44	6.8	4.0	6.0



#24
 1,1-Dichloroethane
 Concen: 2.024 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:	63	Resp:	30931
Ion	Ratio	Lower	Upper
63	100		
98	3.4	2.1	6.5
100	4.0	1.7	5.1

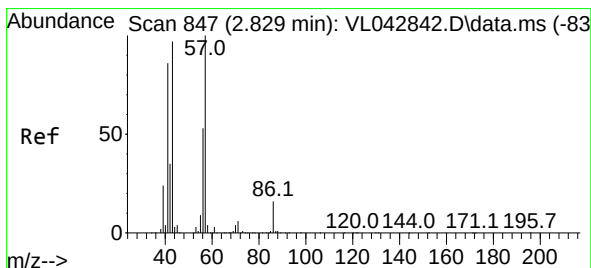
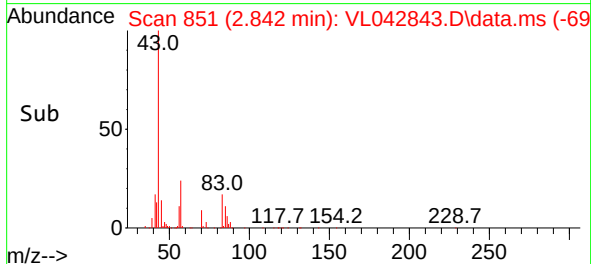
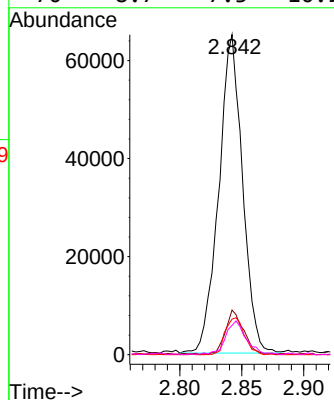
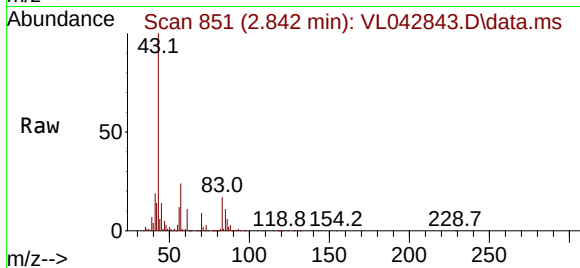




#25
Ethyl Acetate
Concen: 2.077 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

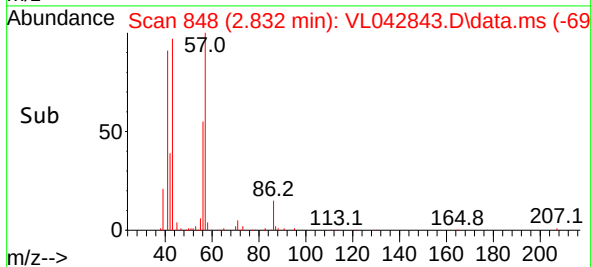
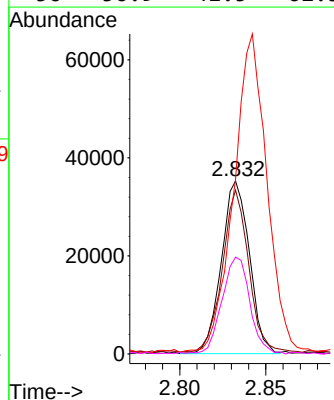
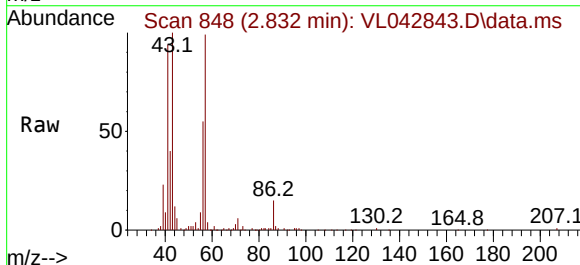
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

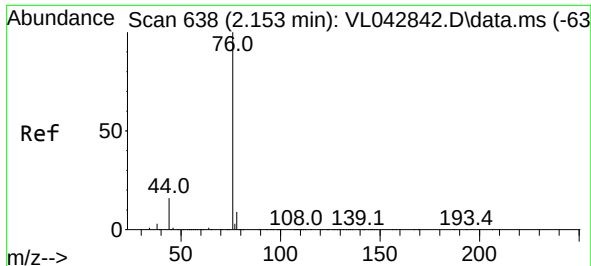
Tgt Ion: 43	Resp: 86804
Ion Ratio	Lower Upper
43 100	
45 11.4	8.1 12.1
61 9.4	7.4 11.2
70 8.7	7.3 10.9



#26
Hexane
Concen: 2.060 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 57	Resp: 39735
Ion Ratio	Lower Upper
57 100	
41 90.3	68.6 103.0
43 219.4	168.5 252.7
56 56.9	41.5 62.3





#27

Carbon Disulfide

Concen: 2.102 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

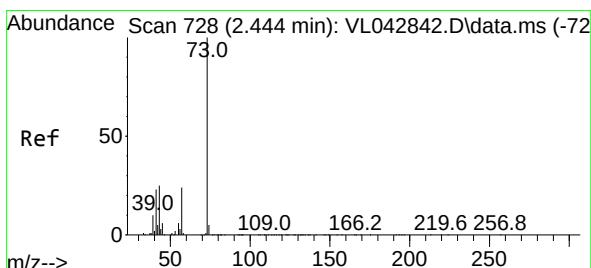
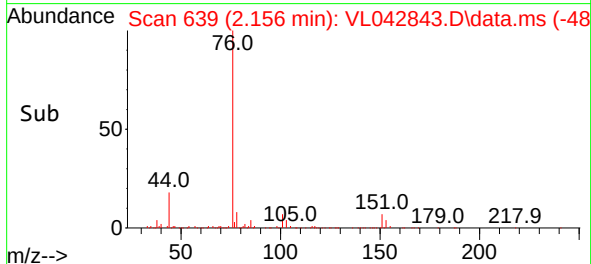
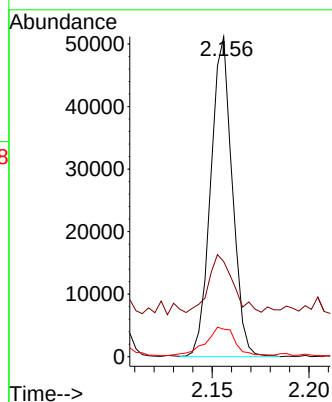
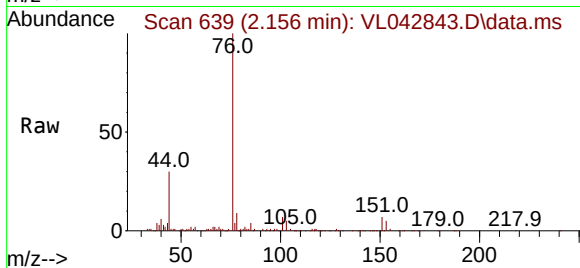
Tgt Ion: 76 Resp: 39466

Ion Ratio Lower Upper

76 100

44 81.0 15.9 23.9#

78 13.8 9.5 14.3



#28

Methyl tert-Butyl Ether

Concen: 2.169 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.000 min

Lab File: VL042843.D

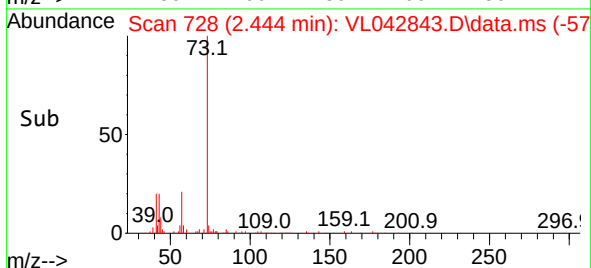
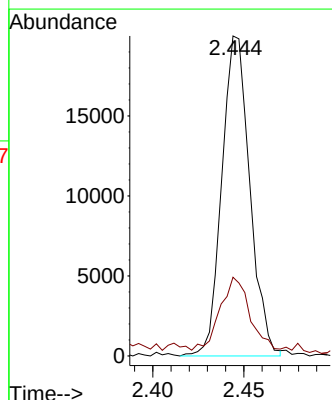
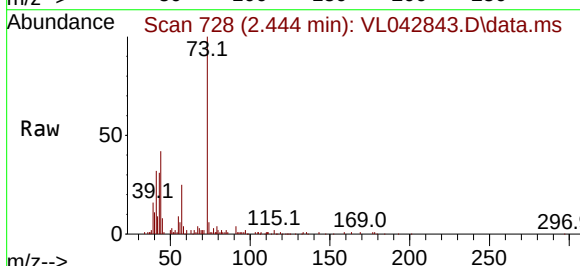
Acq: 13 Aug 2025 09:06

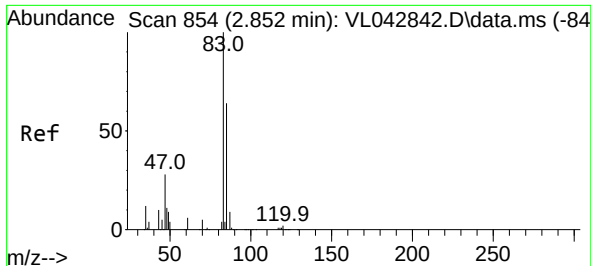
Tgt Ion: 73 Resp: 21341

Ion Ratio Lower Upper

73 100

57 24.8 21.6 32.4





#29

Chloroform

Concen: 2.053 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

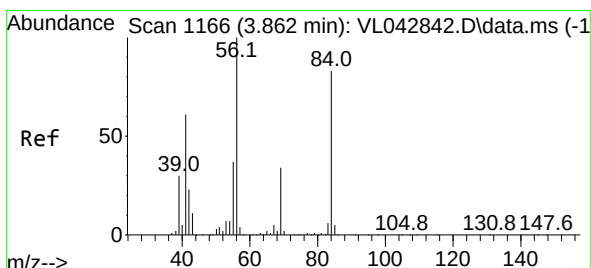
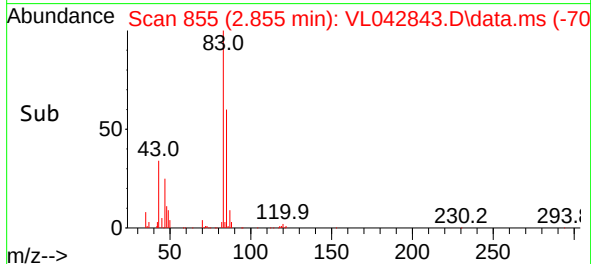
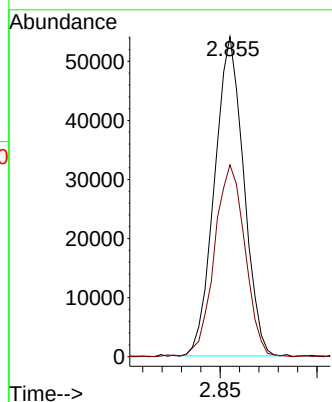
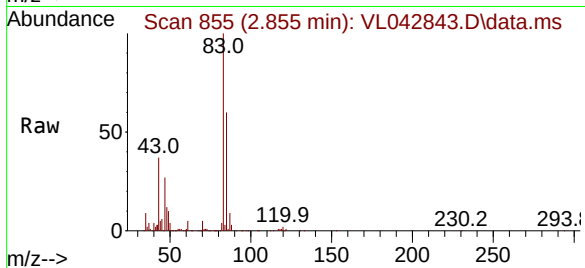
VSTDIC002

Tgt Ion: 83 Resp: 56553

Ion Ratio Lower Upper

83 100

85 59.9 51.1 76.7



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

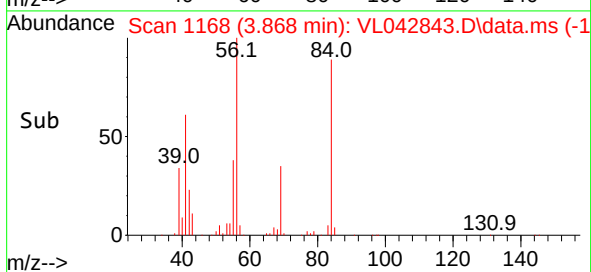
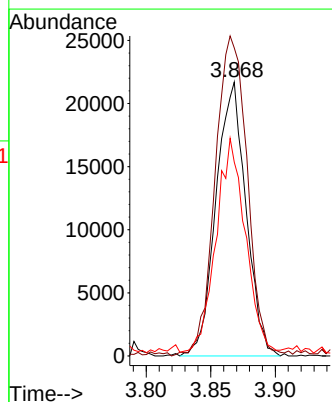
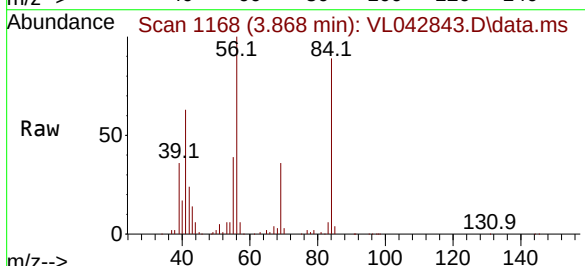
Tgt Ion: 84 Resp: 34992

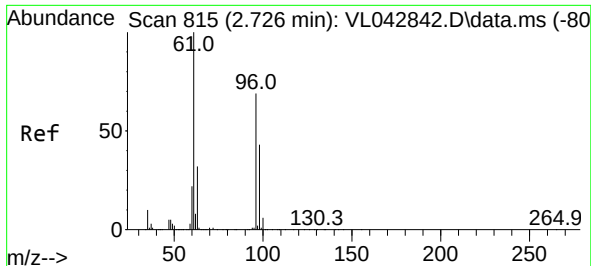
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

41 79.6 61.3 91.9

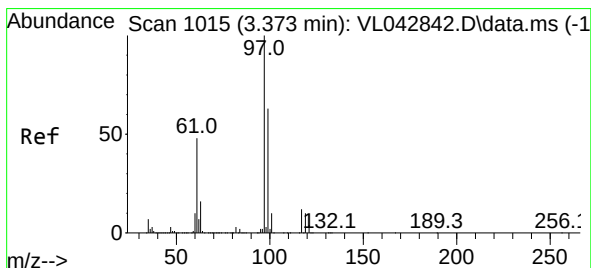
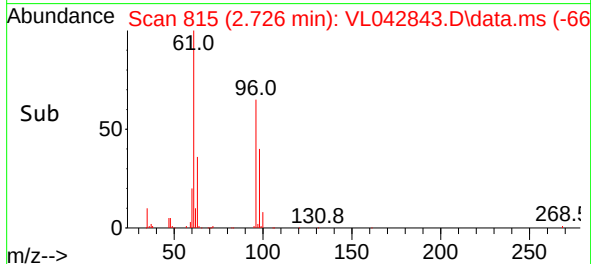
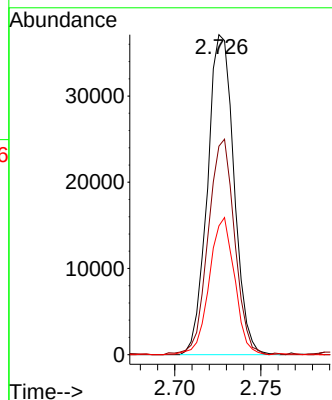
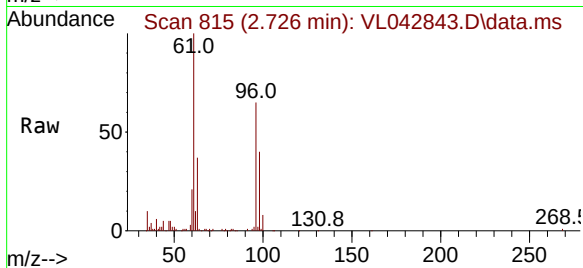




#31
 cis-1,2-Dichloroethene
 Concen: 2.062 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

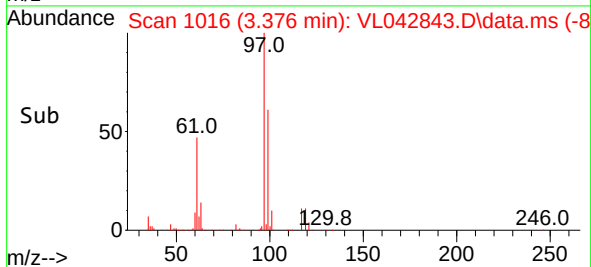
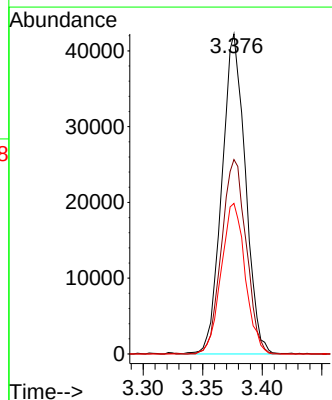
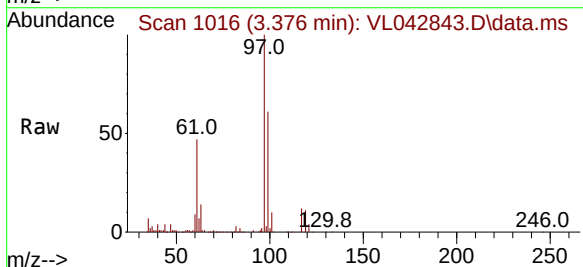
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

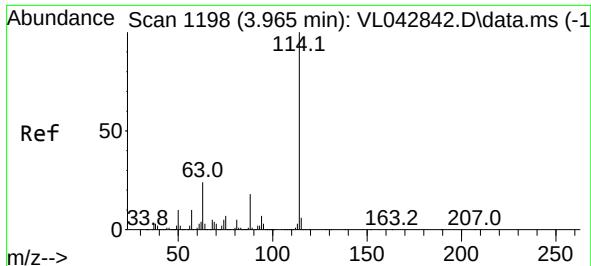
Tgt Ion:	61	Resp:	39783
Ion	Ratio	Lower	Upper
61	100		
96	64.8	55.0	82.6
98	39.9	34.3	51.5



#32
 1,1,1-Trichloroethane
 Concen: 1.983 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:	97	Resp:	57837
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.0	76.6
61	48.1	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

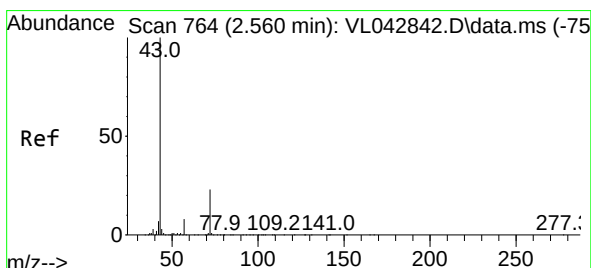
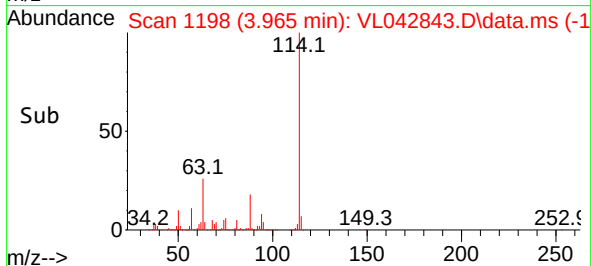
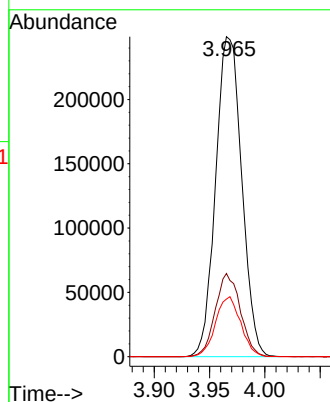
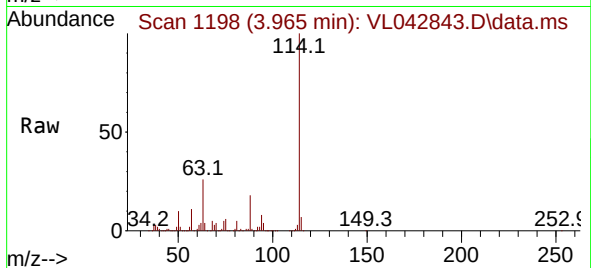
Tgt Ion:114 Resp: 408144

Ion Ratio Lower Upper

114 100

63 25.0 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 2.075 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042843.D

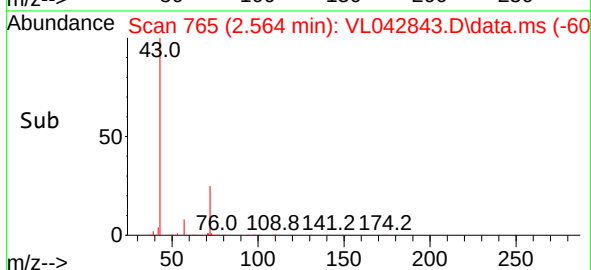
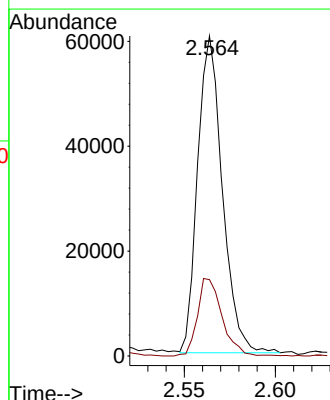
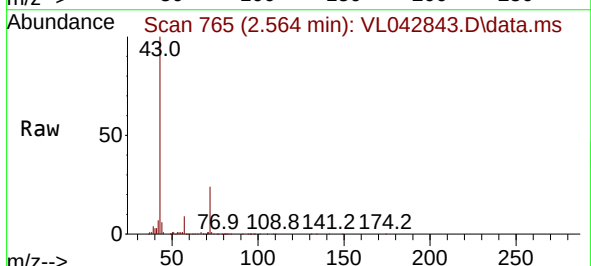
Acq: 13 Aug 2025 09:06

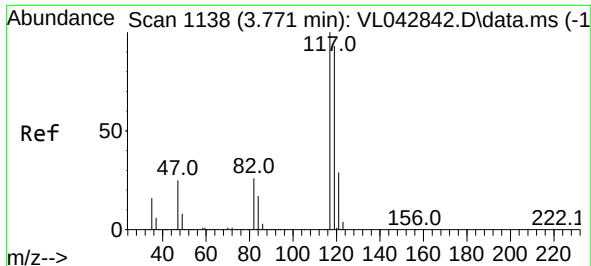
Tgt Ion: 43 Resp: 57172

Ion Ratio Lower Upper

43 100

72 24.3 18.6 28.0

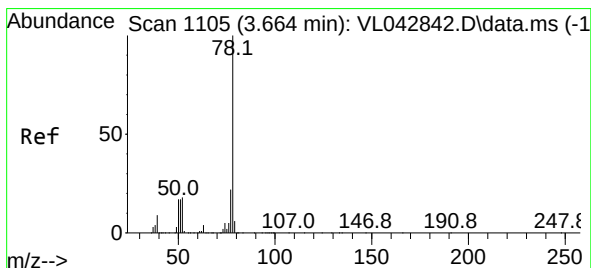
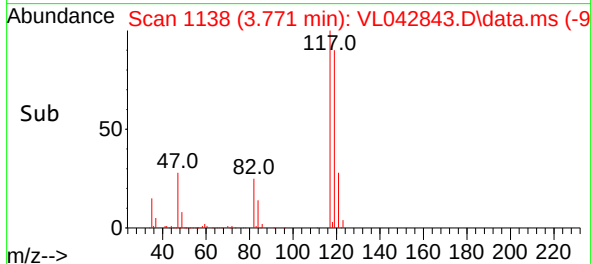
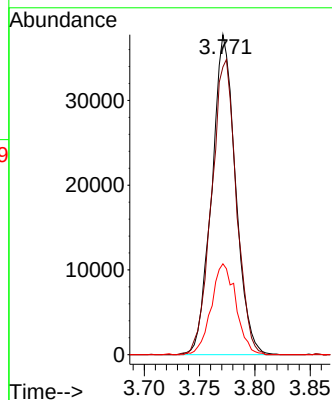
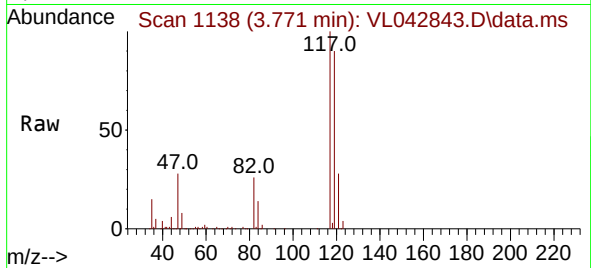




#35
Carbon Tetrachloride
Concen: 2.007 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

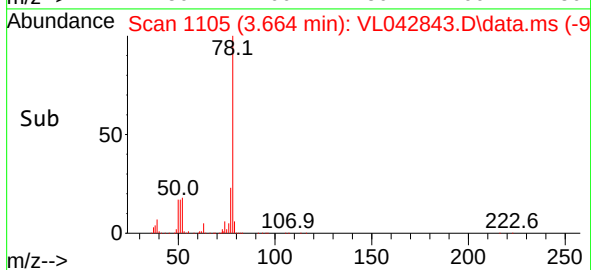
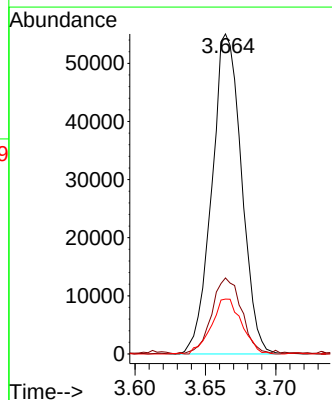
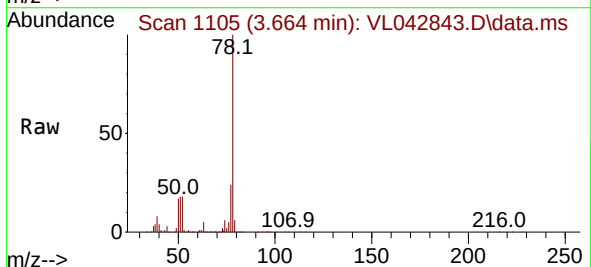
Instrument : MSVOA_1
ClientSampleId : VSTDIC002

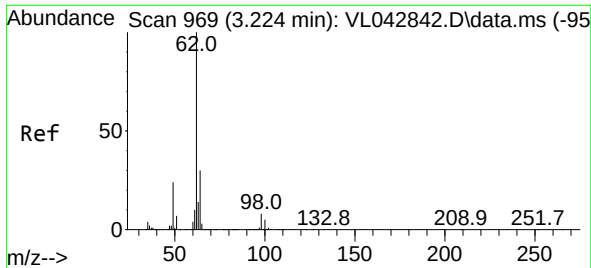
Tgt Ion:117 Resp: 56459
Ion Ratio Lower Upper
117 100
119 89.9 74.7 112.1
121 28.4 23.2 34.8



#36
Benzene
Concen: 2.067 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 78 Resp: 80781
Ion Ratio Lower Upper
78 100
77 23.5 17.7 26.5
50 17.2 13.9 20.9

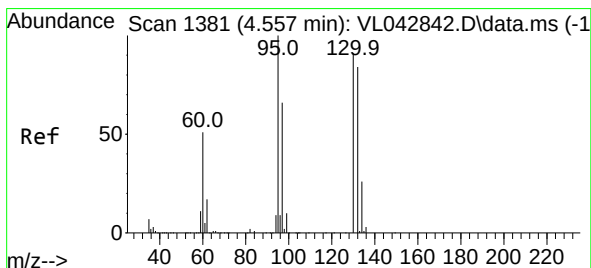
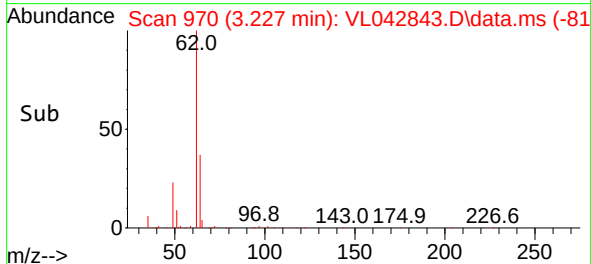
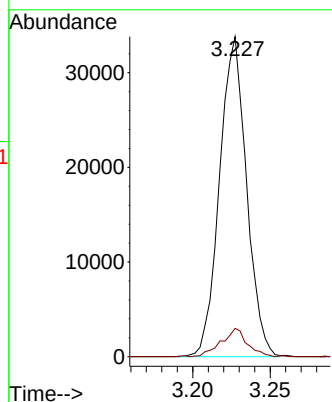
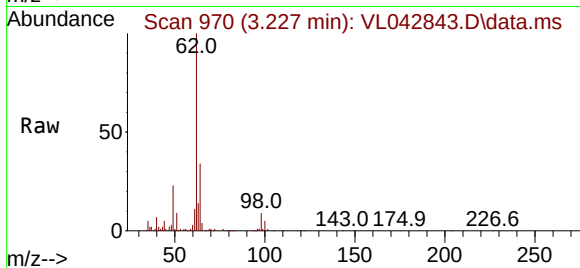




#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

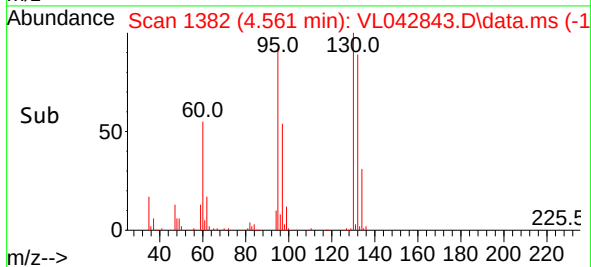
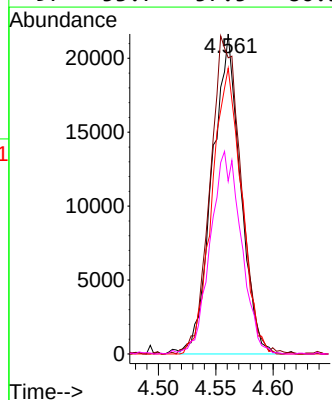
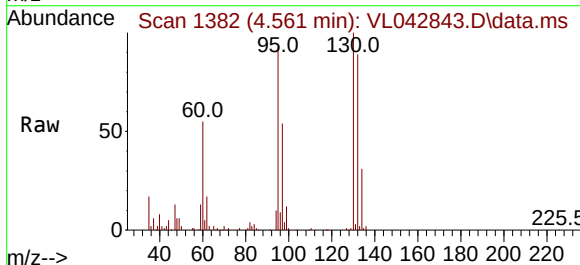
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

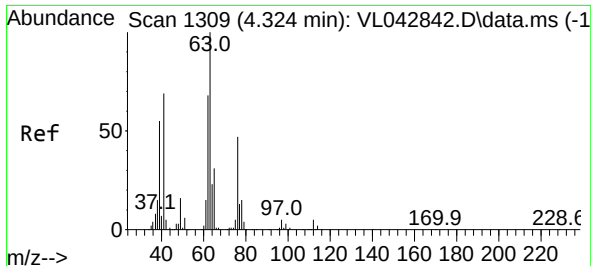
Tgt Ion: 62 Resp: 41034
Ion Ratio Lower Upper
62 100
98 8.6 5.9 8.9



#38
Trichloroethene
Concen: 2.072 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:130 Resp: 36990
Ion Ratio Lower Upper
130 100
95 91.5 87.6 131.4
132 89.3 73.8 110.8
97 53.7 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 2.036 ppbv

RT: 4.328 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

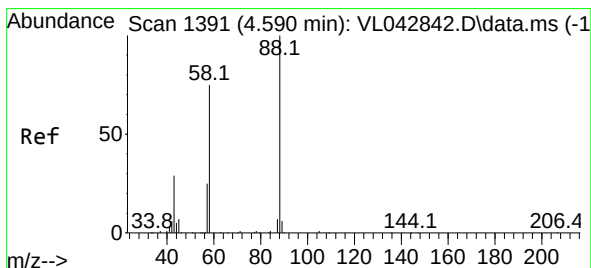
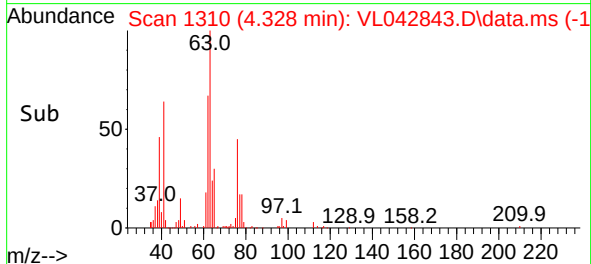
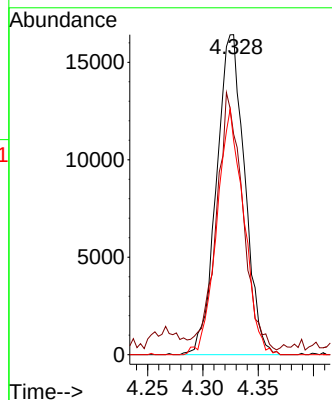
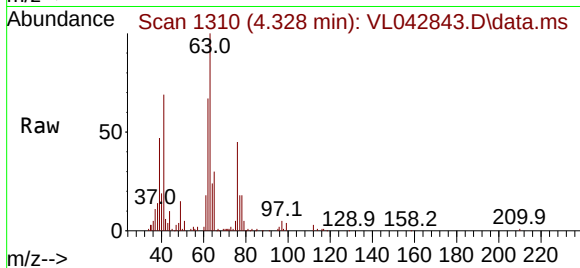
Tgt Ion: 63 Resp: 29059

Ion Ratio Lower Upper

63 100

41 66.8 55.0 82.4

62 66.9 54.4 81.6



#40

1,4-Dioxane

Concen: 1.788 ppbv

RT: 4.606 min Scan# 1396

Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion: 88 Resp: 11947

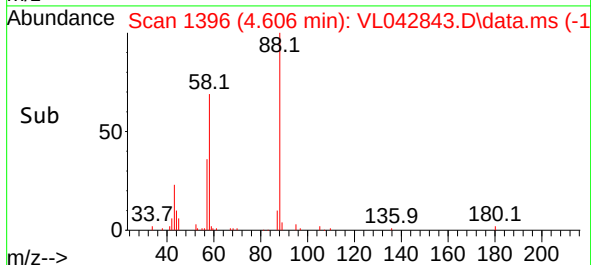
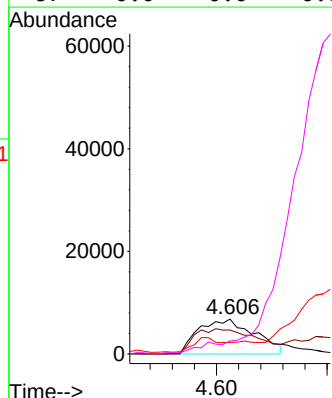
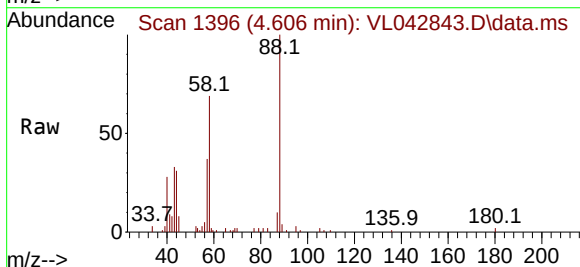
Ion Ratio Lower Upper

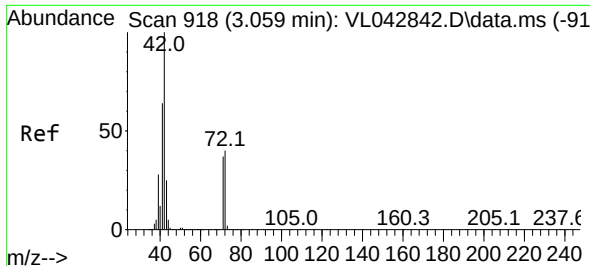
88 100

58 78.4 53.8 80.6

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

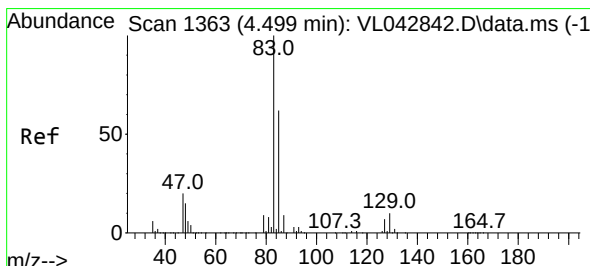
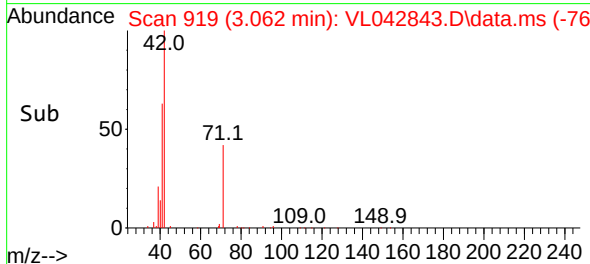
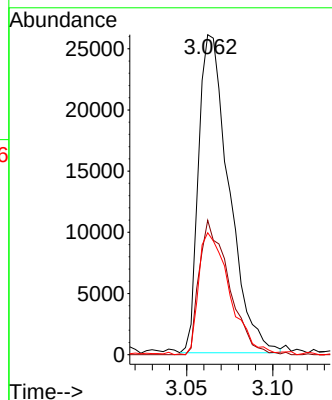
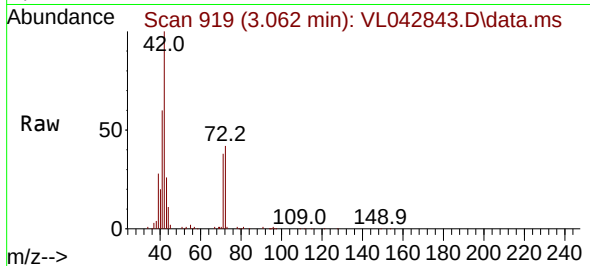




#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

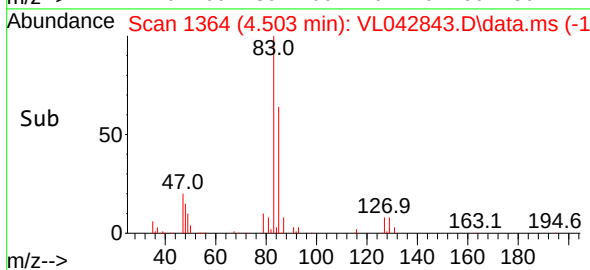
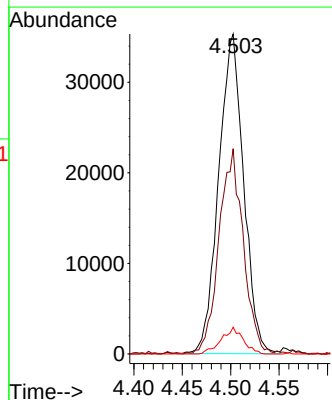
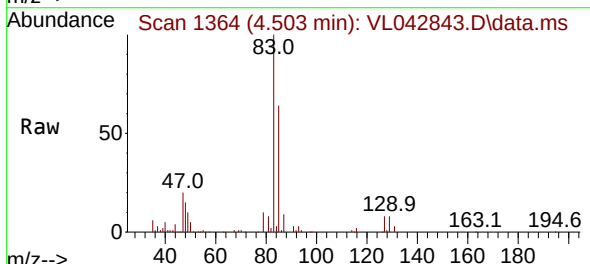
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

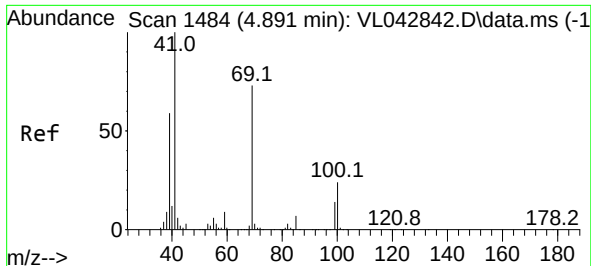
Tgt Ion:	42	Resp:	31994
Ion	Ratio	Lower	Upper
42	100		
72	41.3	32.6	48.8
71	40.1	30.0	45.0



#42
Bromodichloromethane
Concen: 2.085 ppbv
RT: 4.503 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:	83	Resp:	63436
Ion	Ratio	Lower	Upper
83	100		
85	64.2	49.8	74.8
127	8.4	5.8	8.6

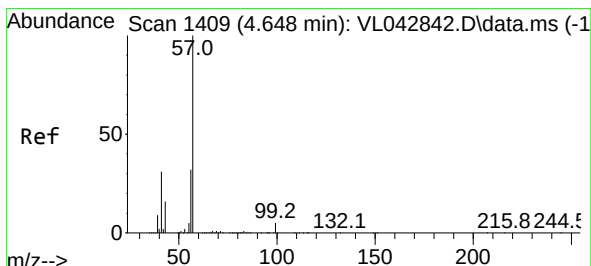
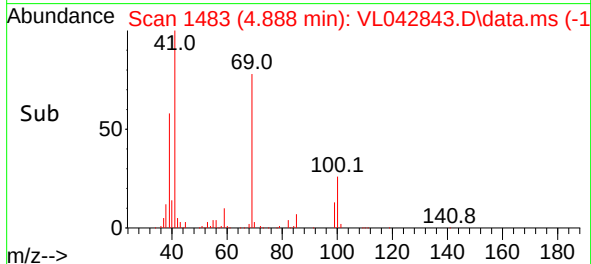
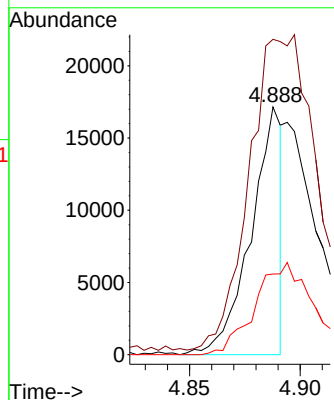
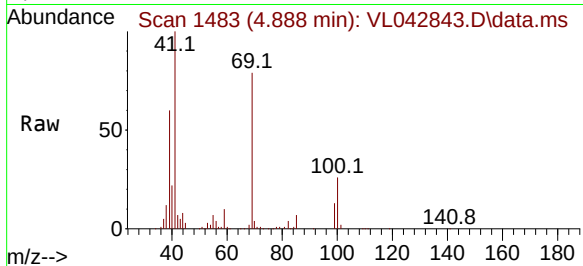




#43
Methyl Methacrylate
Concen: 1.030 ppbv
RT: 4.888 min Scan# 1411
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

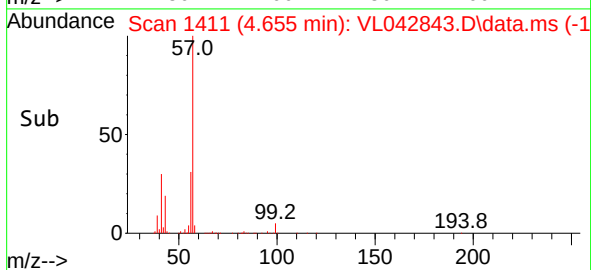
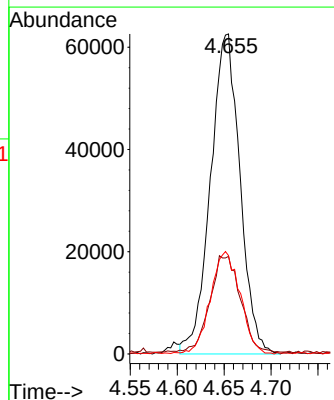
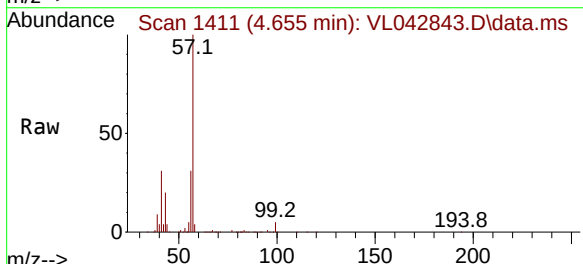
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

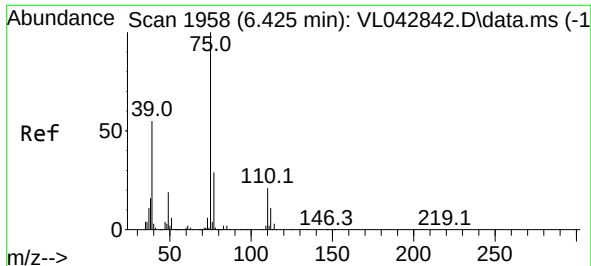
Tgt Ion: 69 Resp: 16511
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0#
100 0.0 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 57 Resp: 136794
Ion Ratio Lower Upper
57 100
41 32.5 24.8 37.2
56 32.6 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 2.048 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

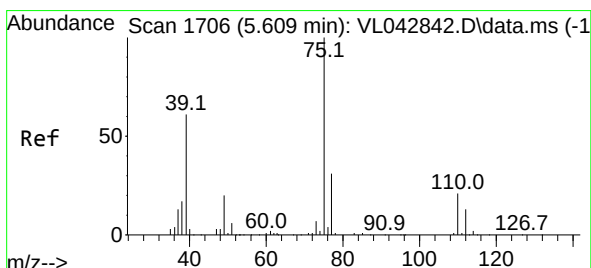
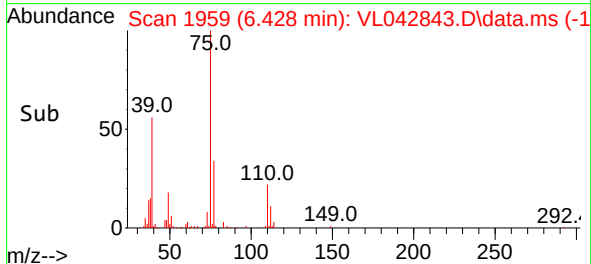
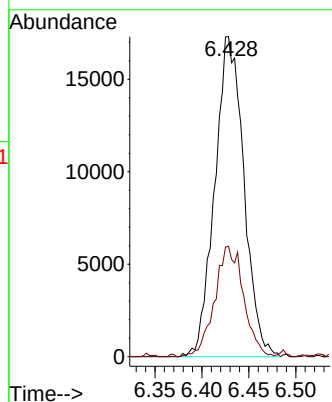
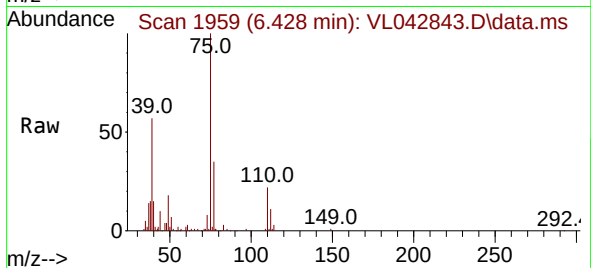
VSTDICC002

Tgt Ion: 75 Resp: 37248

Ion Ratio Lower Upper

75 100

77 35.2 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 1.180 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

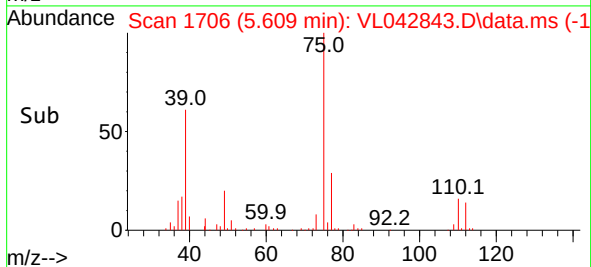
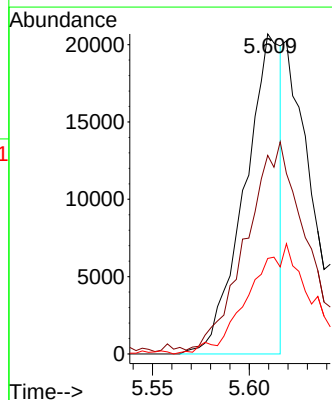
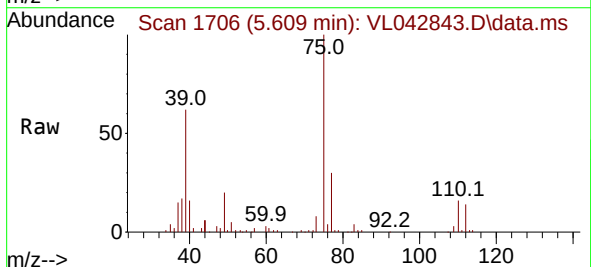
Tgt Ion: 75 Resp: 26940

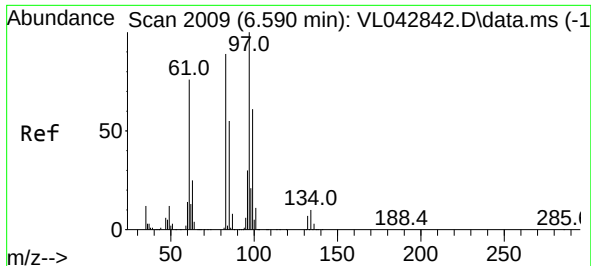
Ion Ratio Lower Upper

75 100

39 60.0 48.9 73.3

77 29.4 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 1.466 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 22158

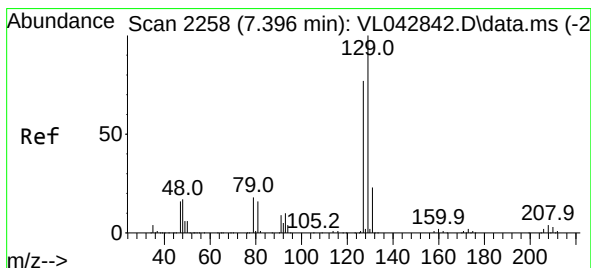
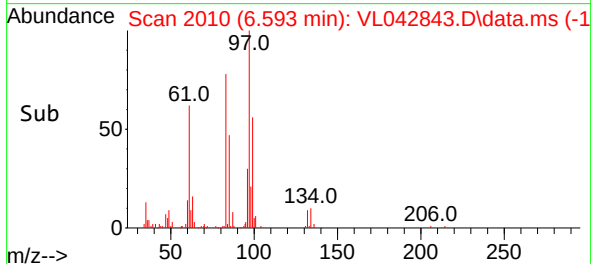
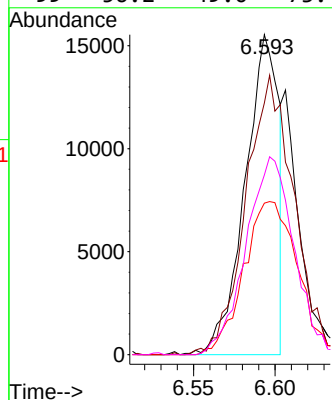
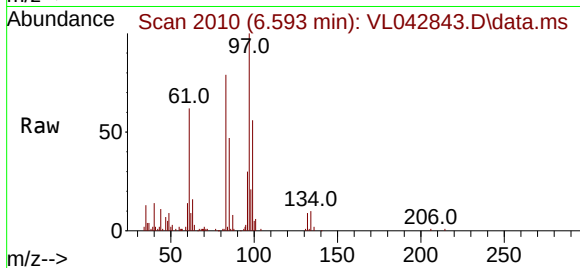
Ion Ratio Lower Upper

97 100

83 78.7 71.0 106.4

85 47.3 43.6 65.4

99 56.2 49.0 73.4



#48

Dibromochloromethane

Concen: 2.109 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042843.D

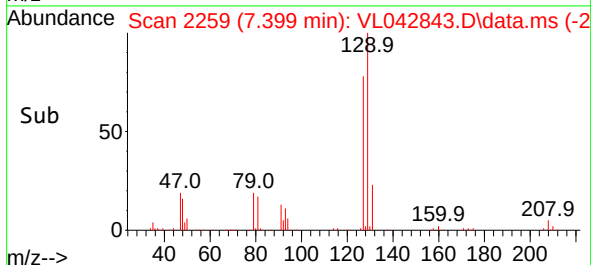
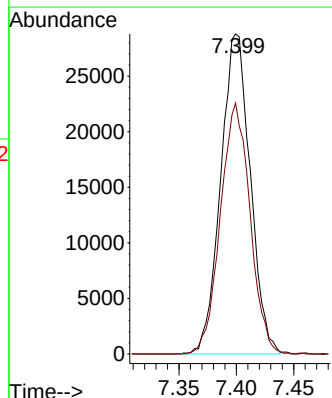
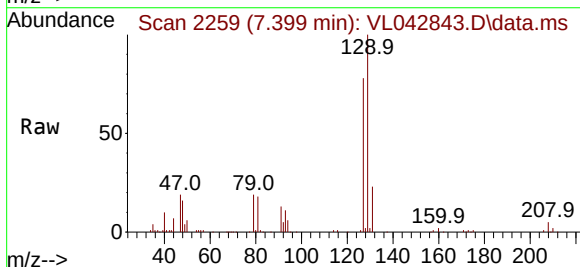
Acq: 13 Aug 2025 09:06

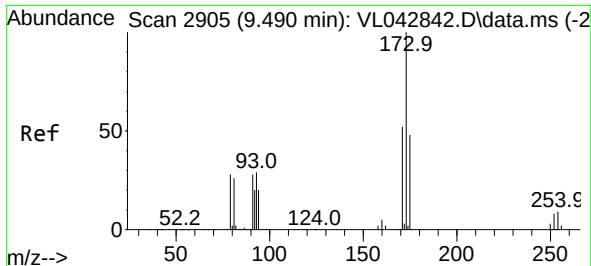
Tgt Ion: 129 Resp: 51620

Ion Ratio Lower Upper

129 100

127 78.4 39.4 118.2

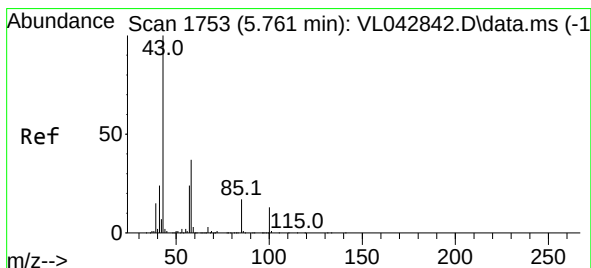
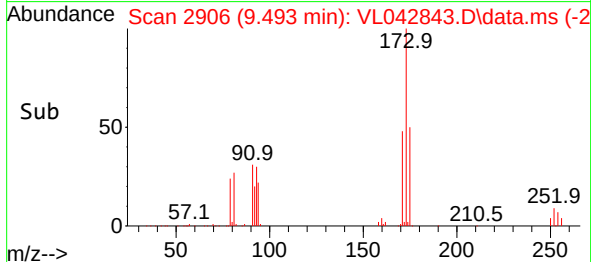
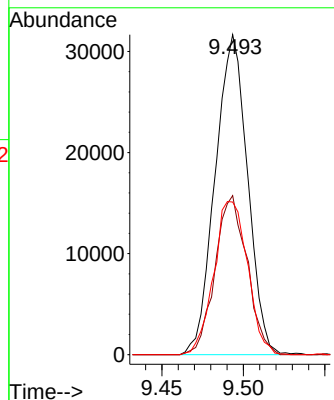
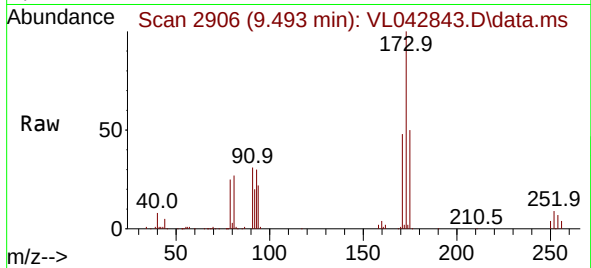




#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

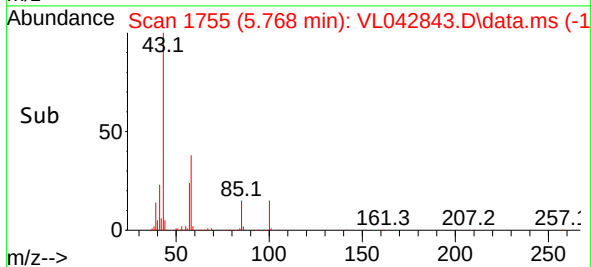
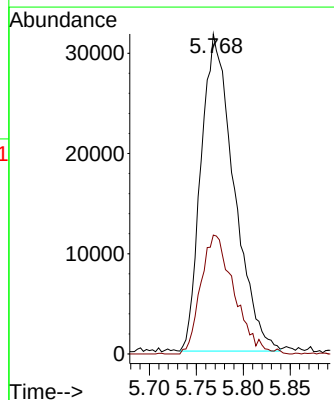
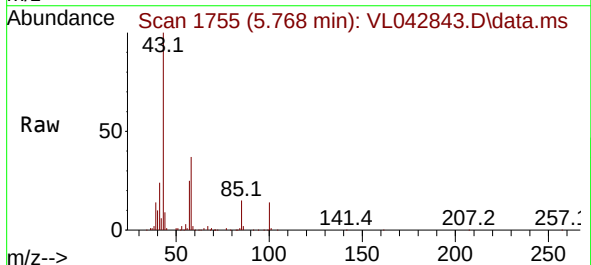
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

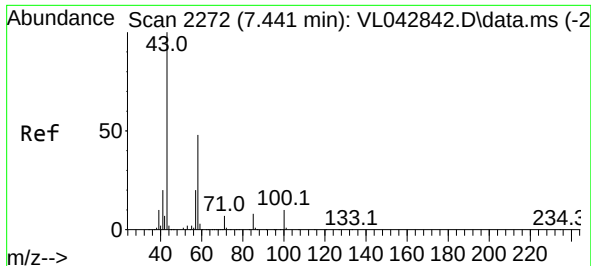
Tgt Ion:173 Resp: 43662
Ion Ratio Lower Upper
173 100
175 49.1 39.2 58.8
171 50.0 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 77225
Ion Ratio Lower Upper
43 100
58 38.1 29.8 44.8

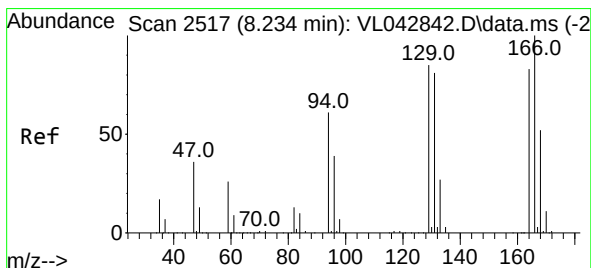
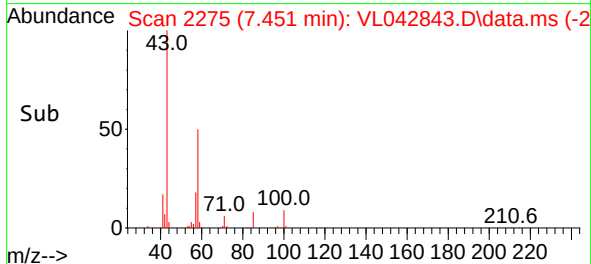
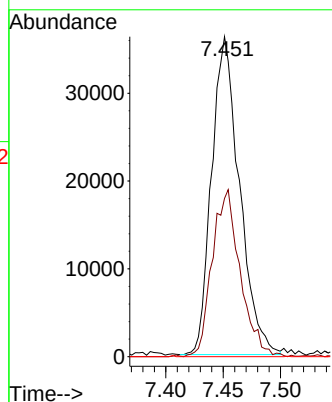
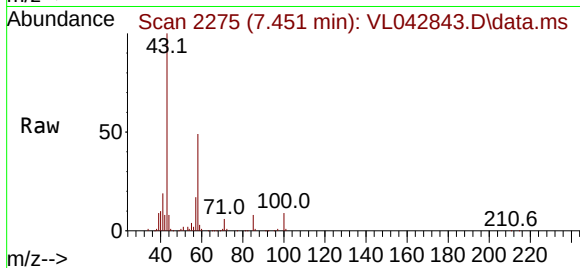




#51
2-Hexanone
Concen: 2.088 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

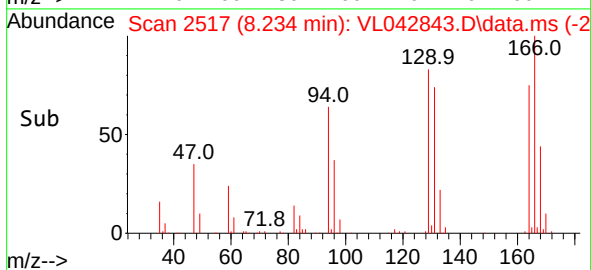
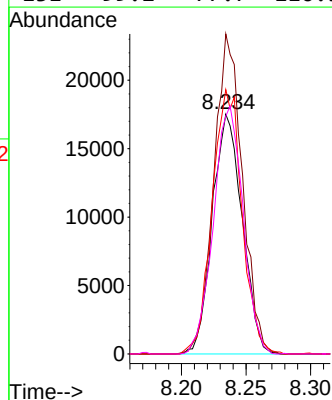
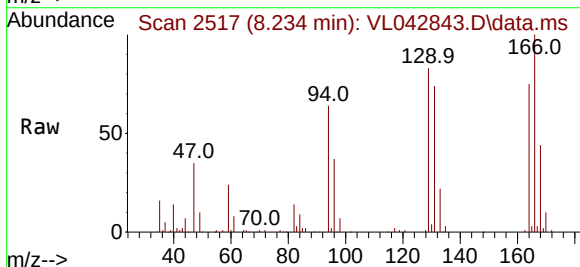
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

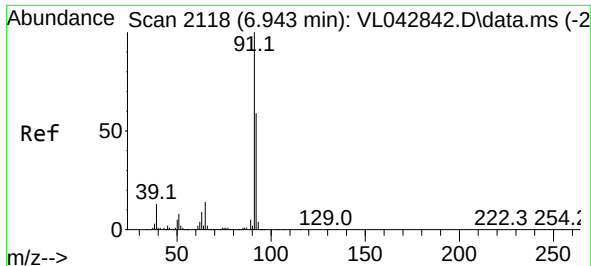
Tgt Ion: 43 Resp: 61210
Ion Ratio Lower Upper
43 100
58 52.9 41.0 61.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 164 Resp: 28166
Ion Ratio Lower Upper
164 100
166 133.5 96.5 144.7
129 110.3 81.8 122.6
131 99.2 77.7 116.5

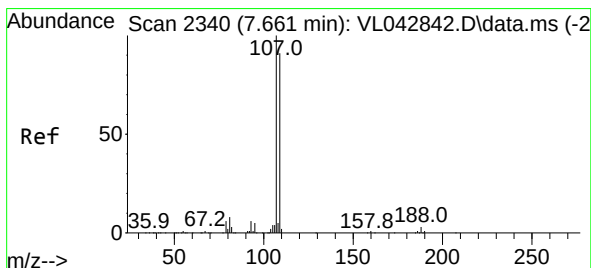
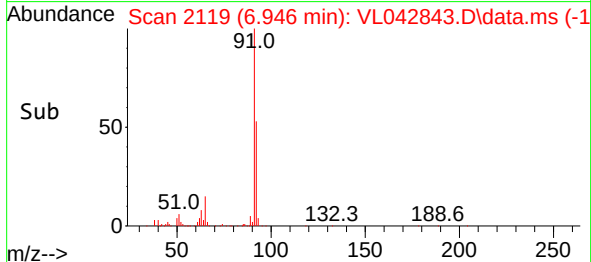
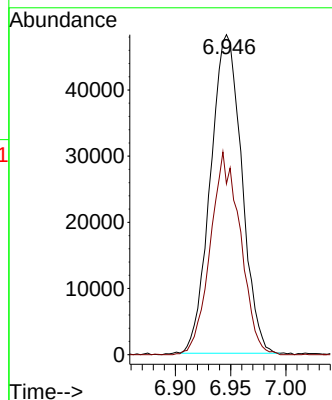
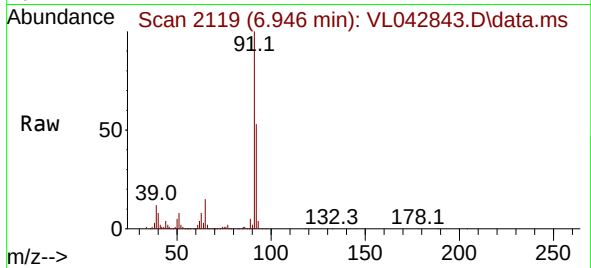




#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

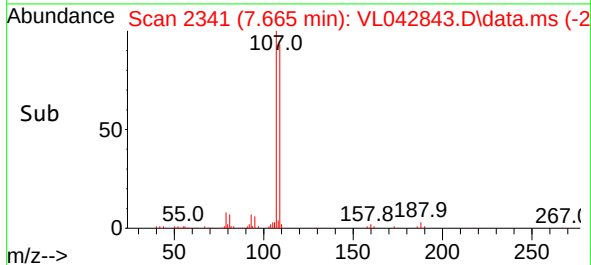
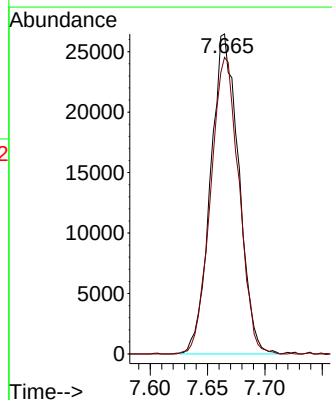
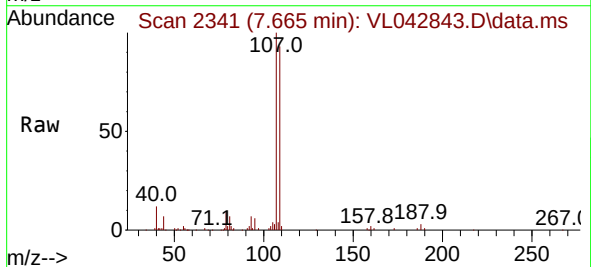
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

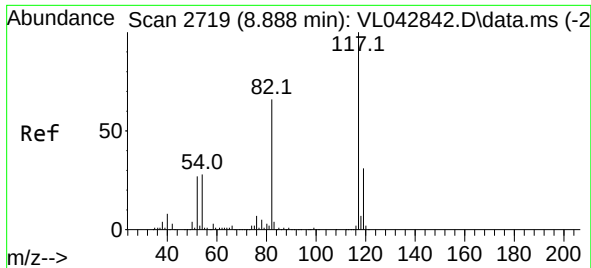
Tgt Ion: 91 Resp: 94690
Ion Ratio Lower Upper
91 100
92 61.1 47.8 71.6



#54
1,2-Dibromoethane
Concen: 2.039 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 107 Resp: 45071
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7

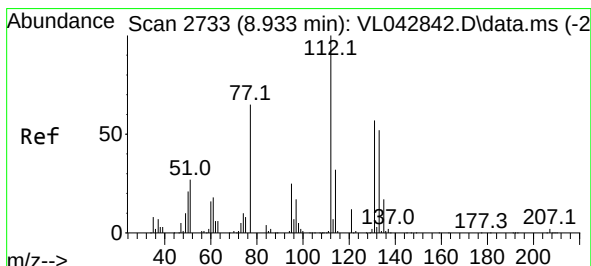
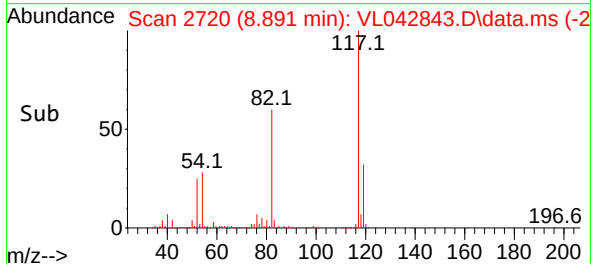
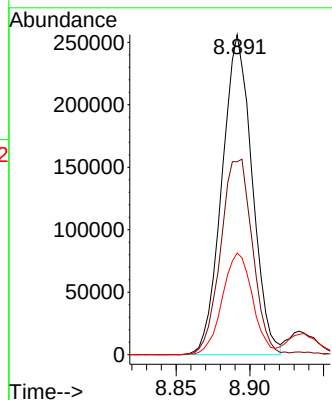
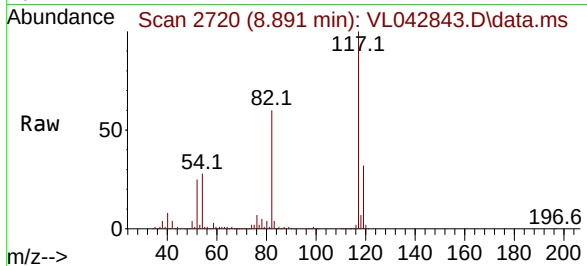




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

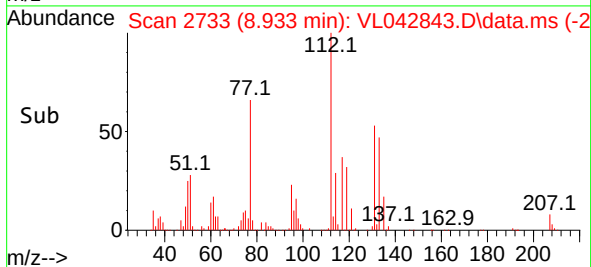
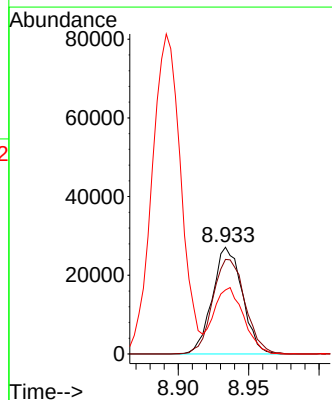
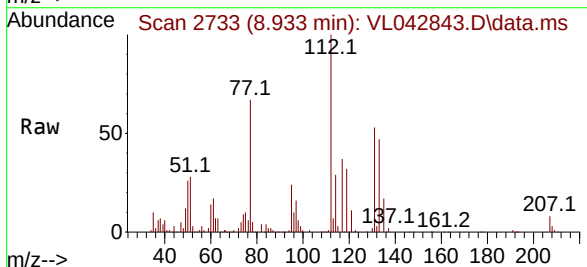
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

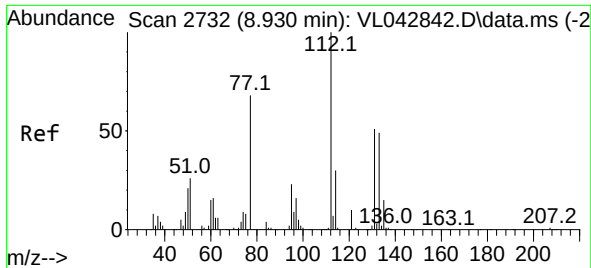
Tgt Ion:117 Resp: 363830
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 32.8 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 2.131 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:131 Resp: 40090
Ion Ratio Lower Upper
131 100
133 96.1 77.4 116.0
119 59.3 51.2 76.8

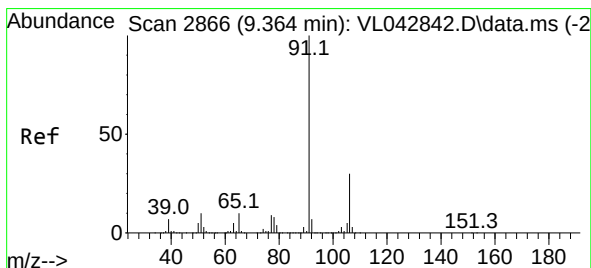
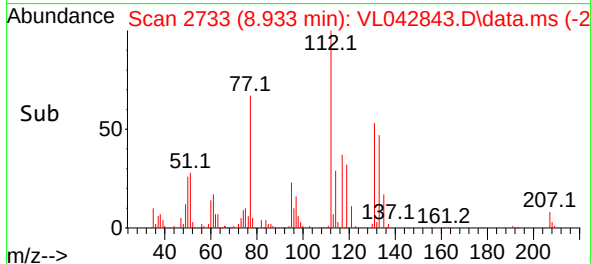
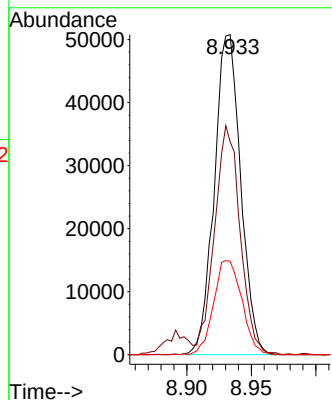
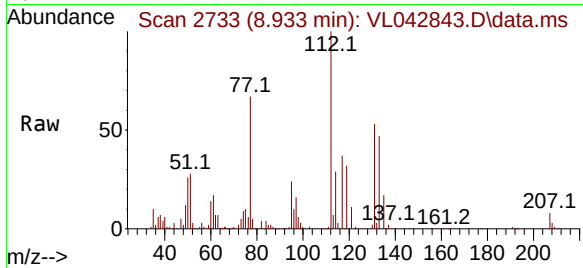




#57
Chlorobenzene
Concen: 2.090 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

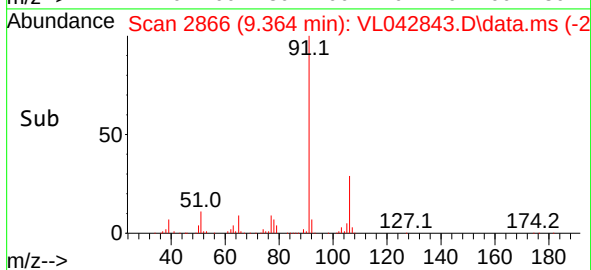
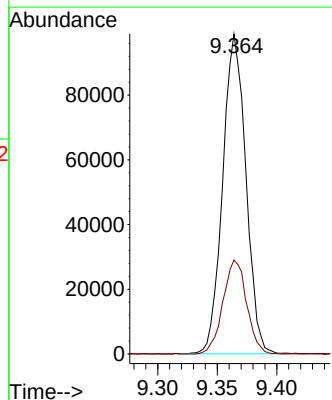
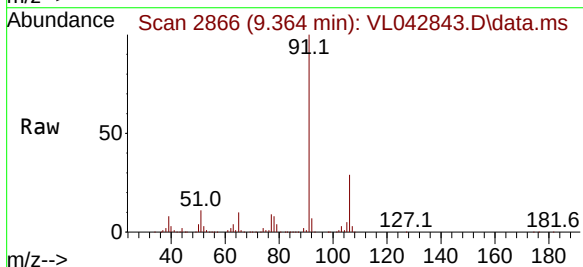
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

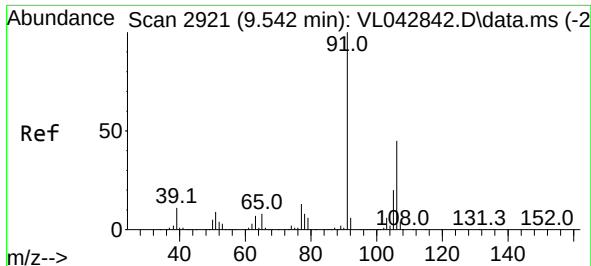
Tgt Ion:112 Resp: 72296
Ion Ratio Lower Upper
112 100
77 66.4 55.5 83.3
114 29.2 27.2 33.2



#58
Ethyl Benzene
Concen: 2.083 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 133719
Ion Ratio Lower Upper
91 100
106 29.4 23.9 35.9





#59

m/p-Xylene

Concen: 1.998 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

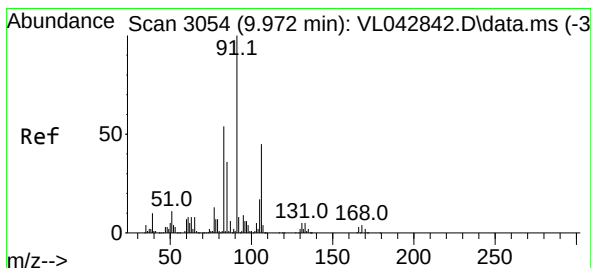
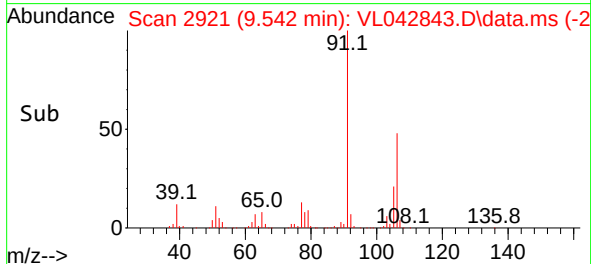
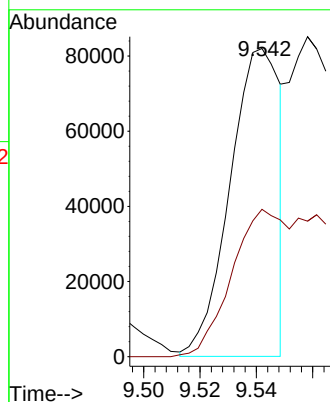
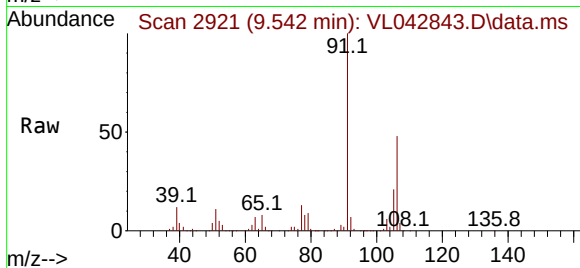
VSTDIC002

Tgt Ion: 91 Resp: 100699

Ion Ratio Lower Upper

91 100

106 97.0 0.0 0.0#



#60

o-Xylene

Concen: 2.077 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042843.D

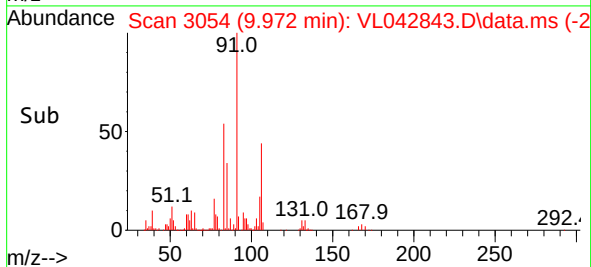
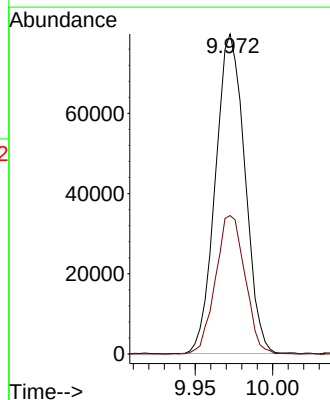
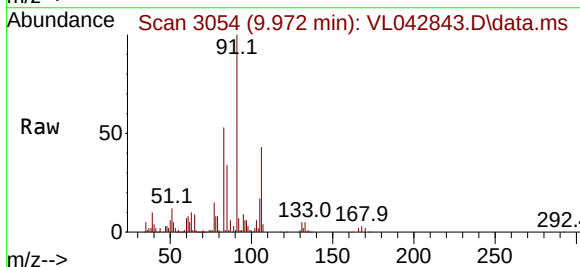
Acq: 13 Aug 2025 09:06

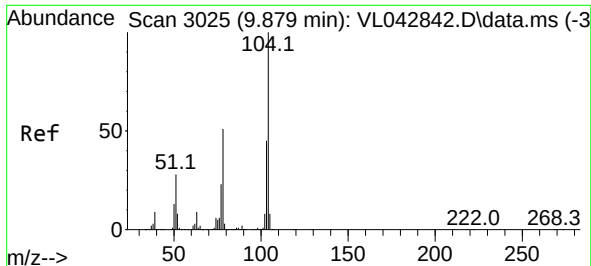
Tgt Ion: 91 Resp: 105125

Ion Ratio Lower Upper

91 100

106 43.5 21.8 65.4

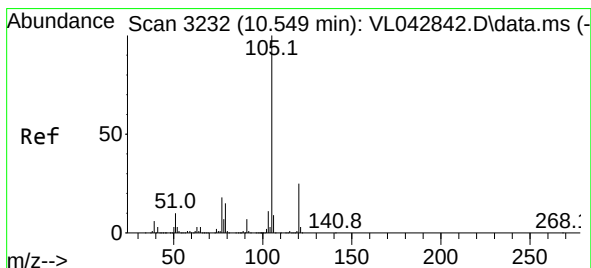
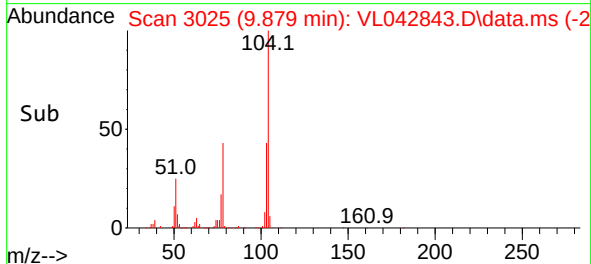
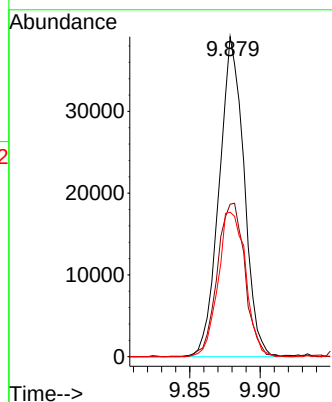
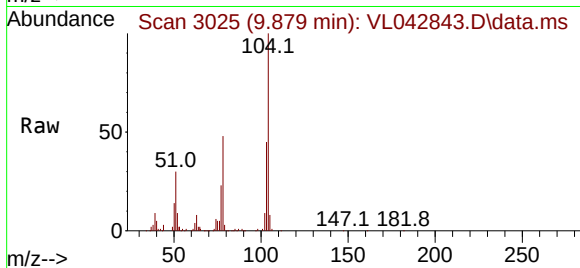




#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

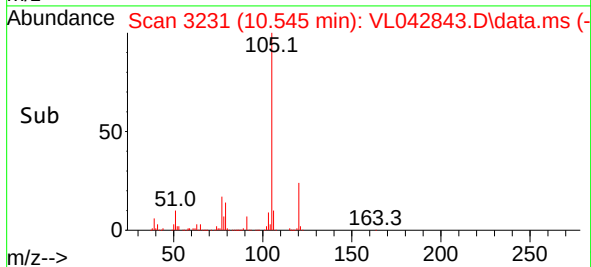
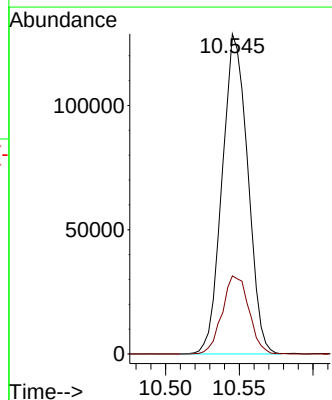
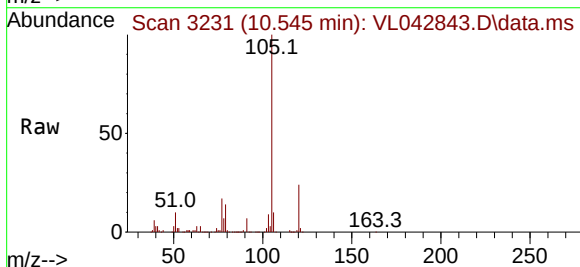
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

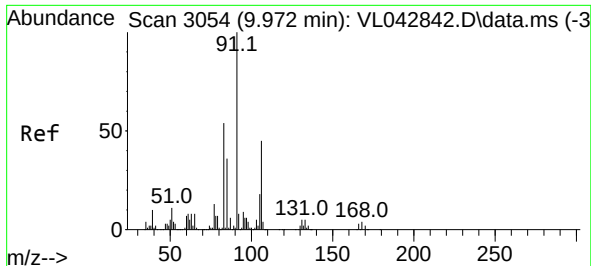
Tgt Ion:104 Resp: 48027
Ion Ratio Lower Upper
104 100
78 53.4 40.6 61.0
103 50.1 37.7 56.5



#62
Isopropylbenzene
Concen: 2.098 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 155223
Ion Ratio Lower Upper
105 100
120 25.5 20.6 30.8

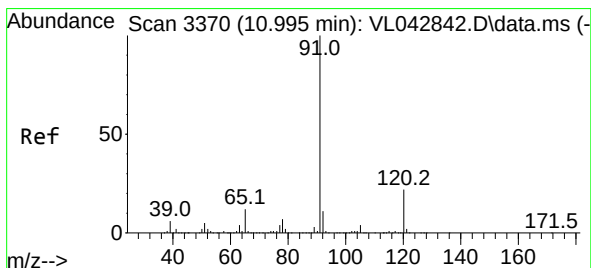
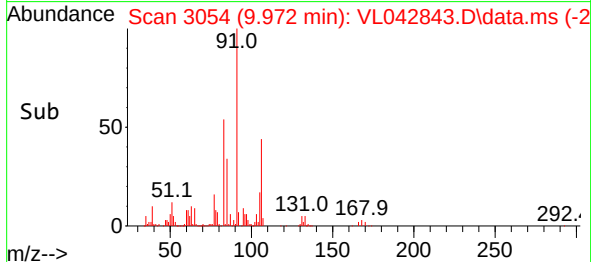
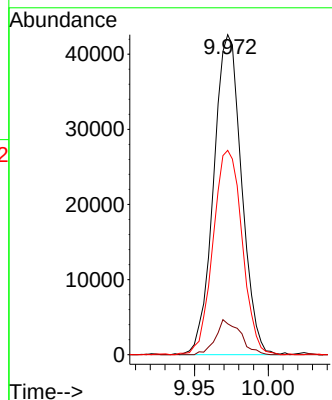
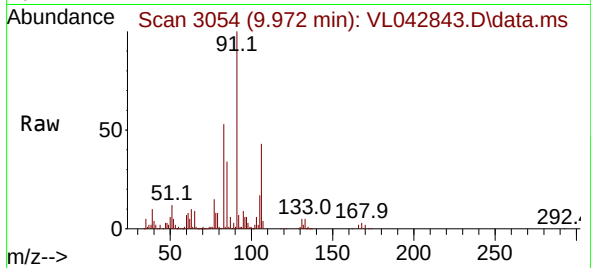




#63
1,1,2,2-Tetrachloroethane
Concen: 2.031 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

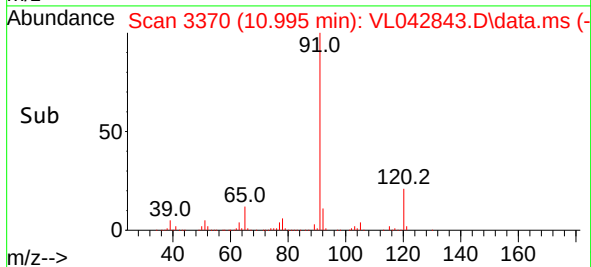
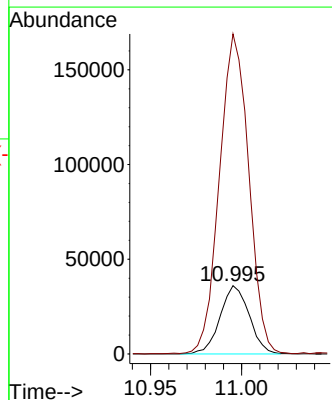
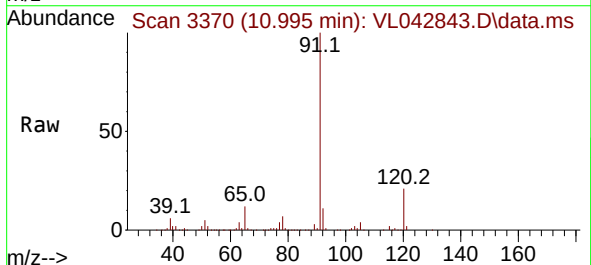
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

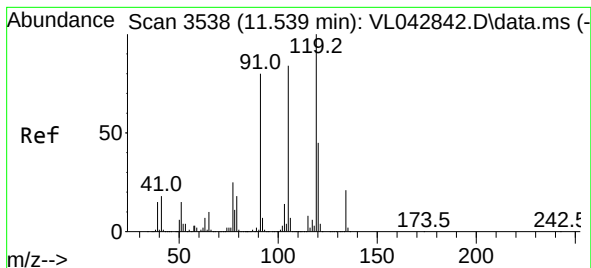
Tgt Ion: 83 Resp: 56139
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 66.5 32.3 96.8



#64
n-propylbenzene
Concen: 2.115 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 120 Resp: 39922
Ion Ratio Lower Upper
120 100
91 476.7 375.8 563.6

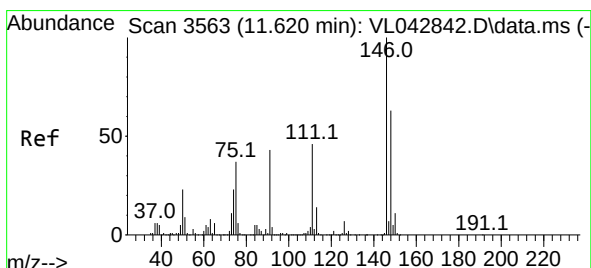
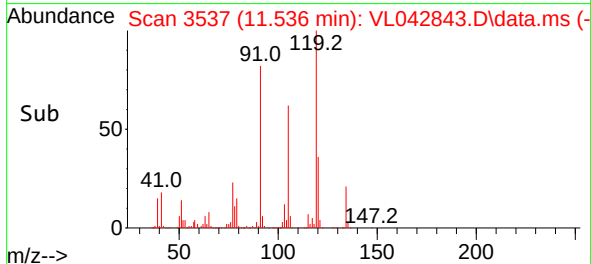
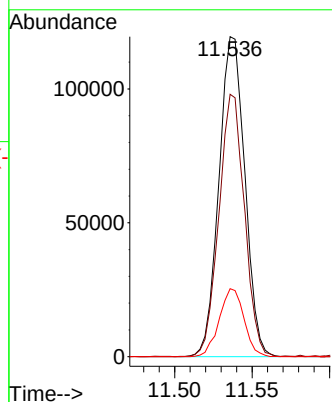
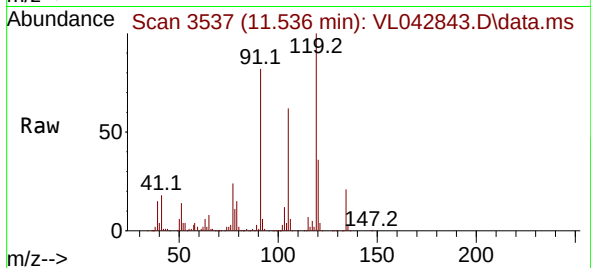




#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

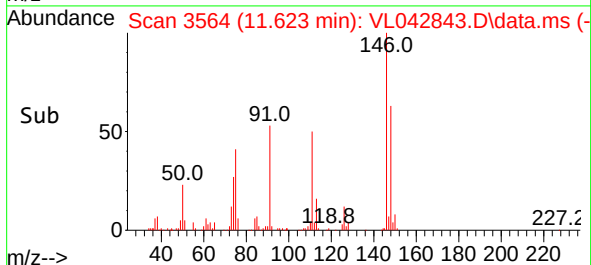
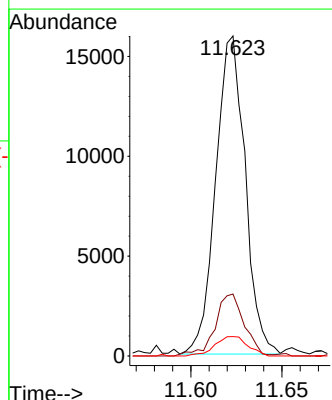
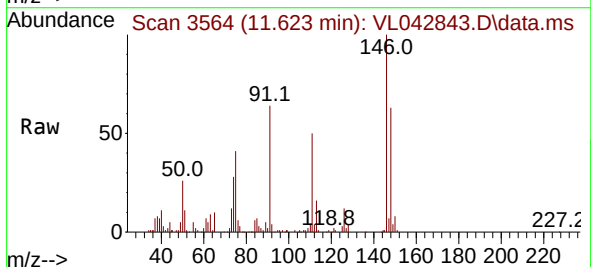
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

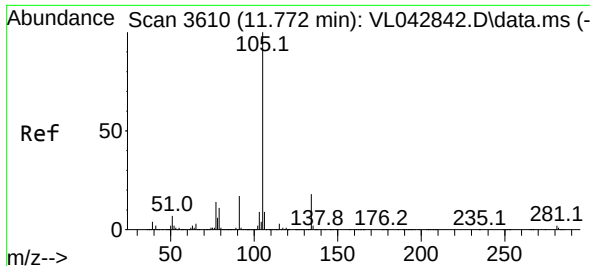
Tgt Ion:119 Resp: 139019
Ion Ratio Lower Upper
119 100
91 80.9 63.9 95.9
134 20.3 17.0 25.4



#66
Benzyl Chloride
Concen: 2.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 17893
Ion Ratio Lower Upper
91 100
126 19.5 14.2 21.4
128 6.9 5.0 7.6

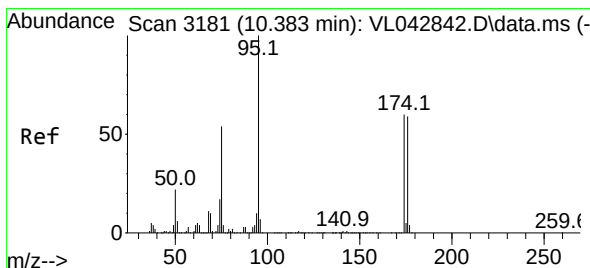
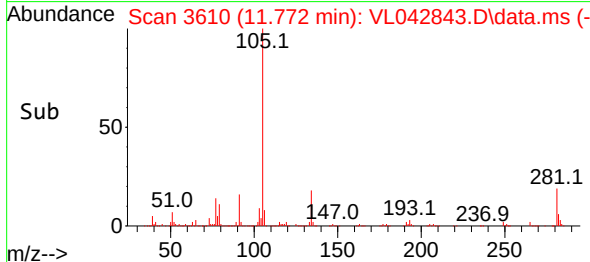
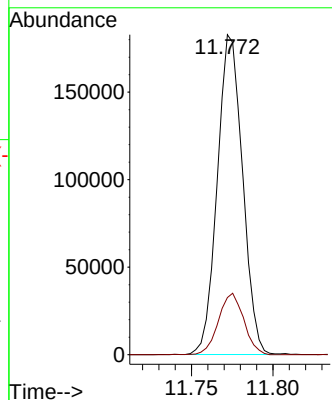
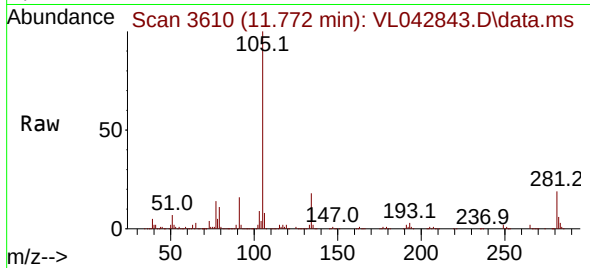




#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

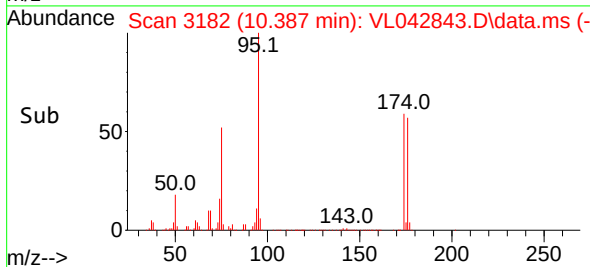
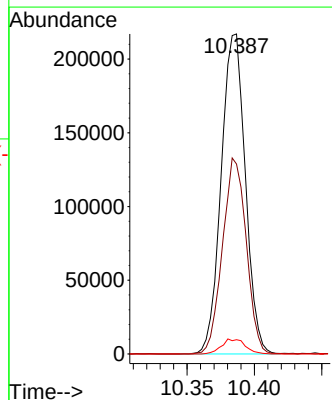
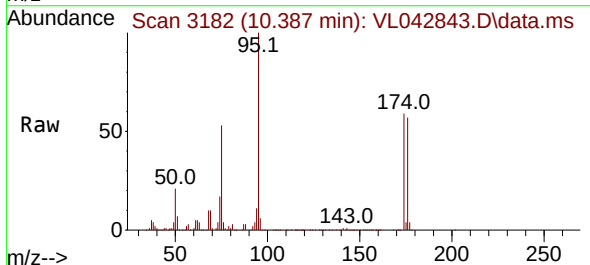
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

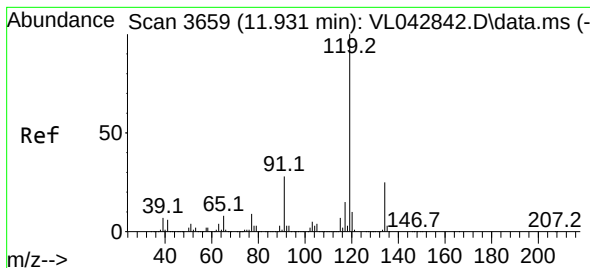
Tgt Ion:105 Resp: 196899
 Ion Ratio Lower Upper
 105 100
 134 19.3 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.923 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 95 Resp: 270774
 Ion Ratio Lower Upper
 95 100
 174 60.2 48.4 72.6
 175 4.6 3.8 5.8

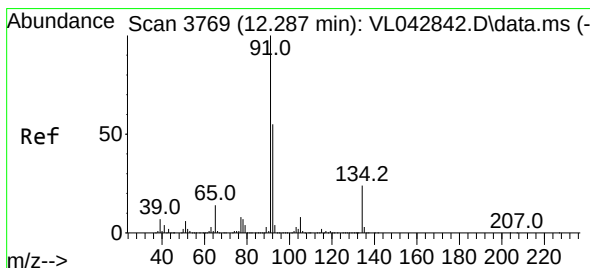
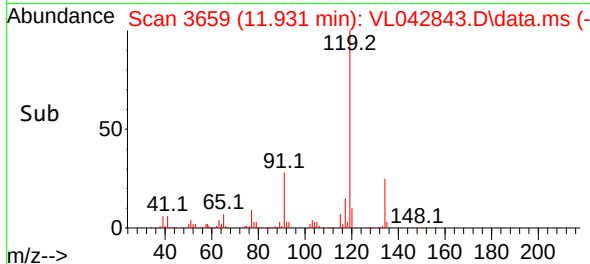
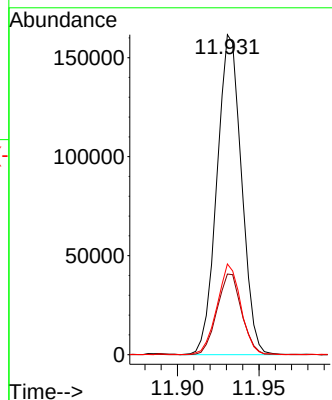
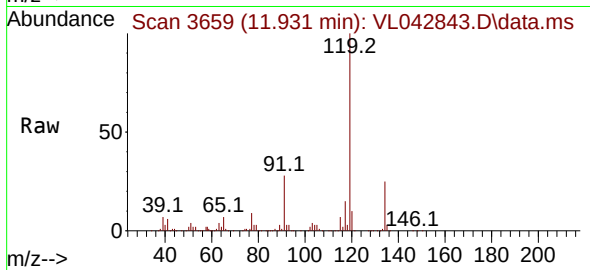




#69
p-Isopropyltoluene
Concen: 2.156 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

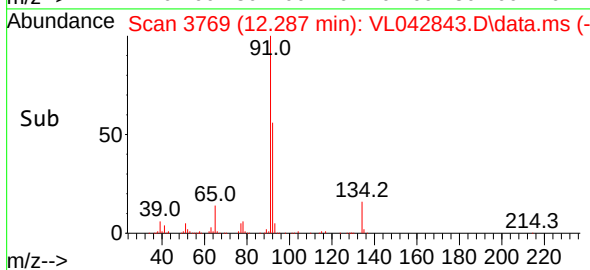
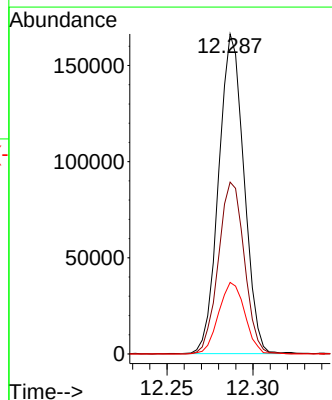
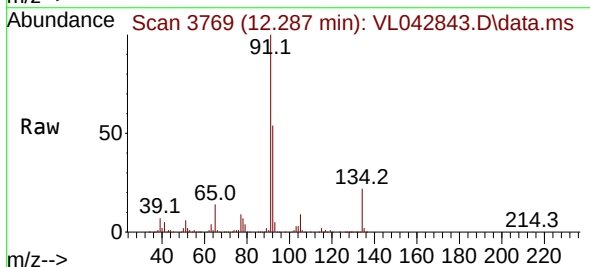
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

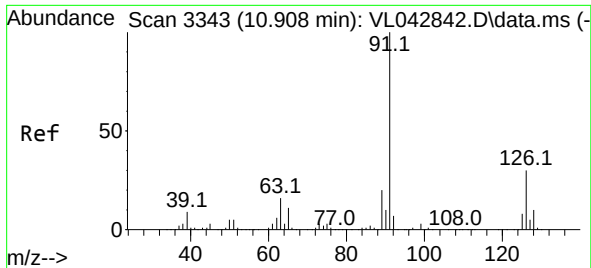
Tgt Ion: 119 Resp: 169429
Ion Ratio Lower Upper
119 100
134 25.3 20.6 30.8
91 27.4 22.6 34.0



#70
n-Butylbenzene
Concen: 2.178 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 169768
Ion Ratio Lower Upper
91 100
92 55.4 44.6 66.8
134 23.3 19.0 28.4

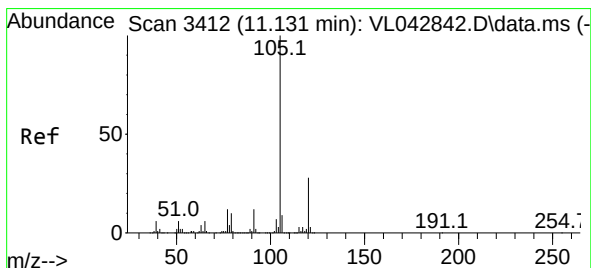
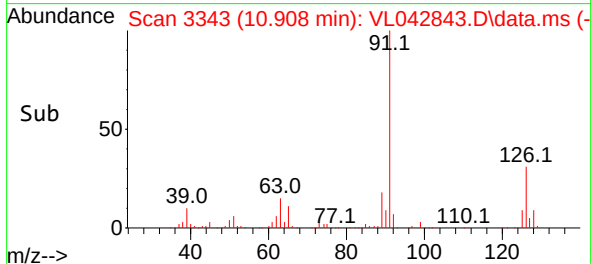
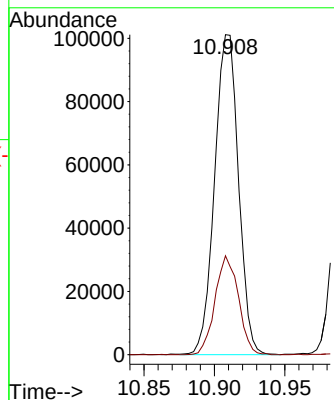
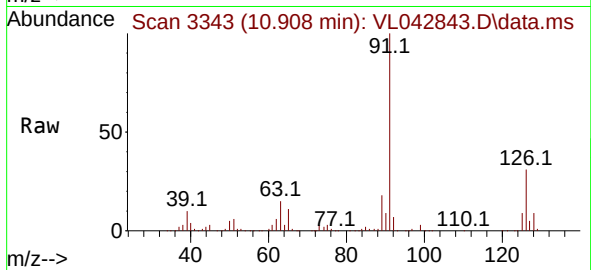




#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

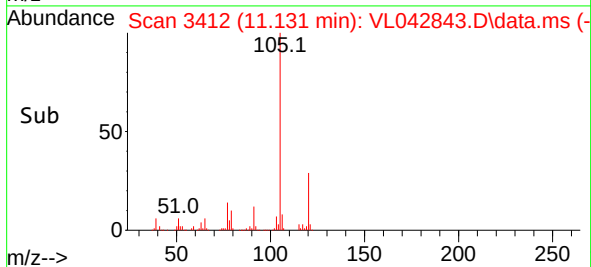
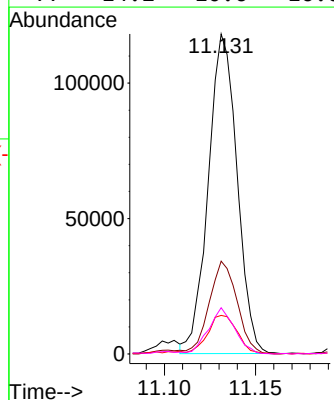
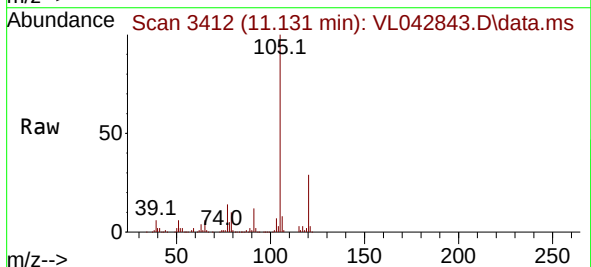
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

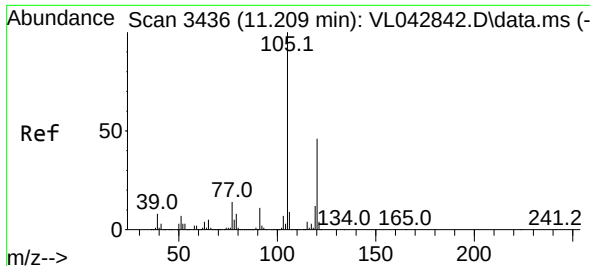
Tgt Ion: 91 Resp: 119382
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 105 Resp: 129786
Ion Ratio Lower Upper
105 100
120 29.4 23.4 35.2
91 13.3 9.8 14.6
77 14.2 10.6 16.0

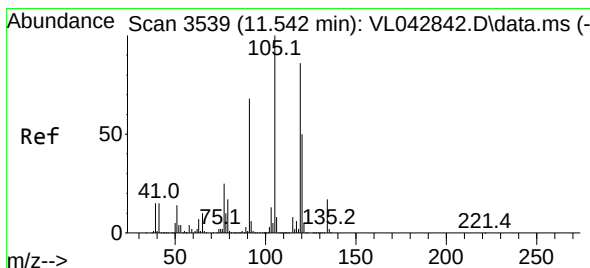
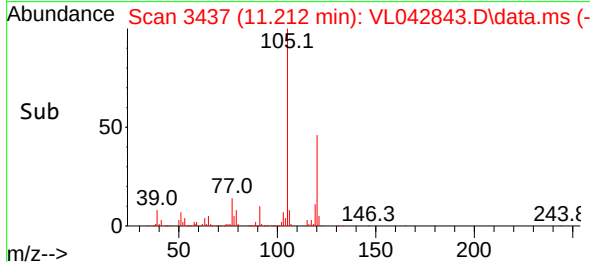
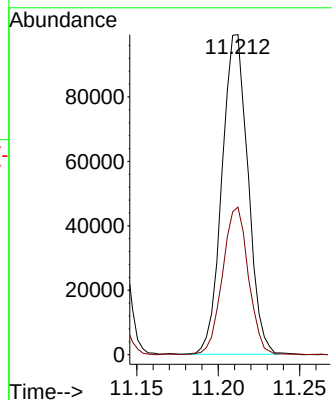
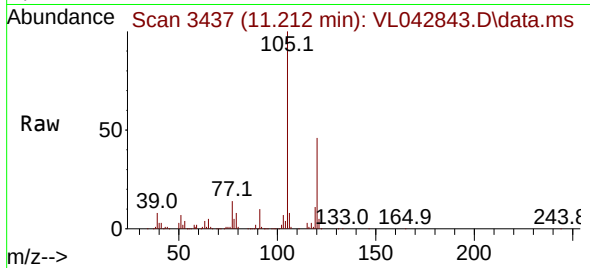




#73
1,3,5-Trimethylbenzene
Concen: 2.109 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

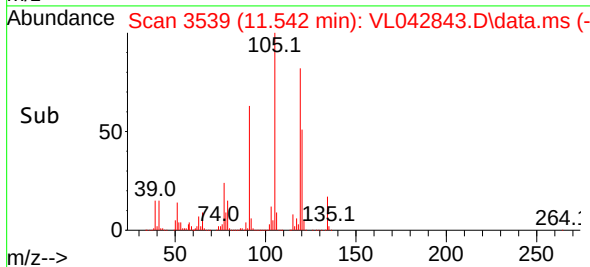
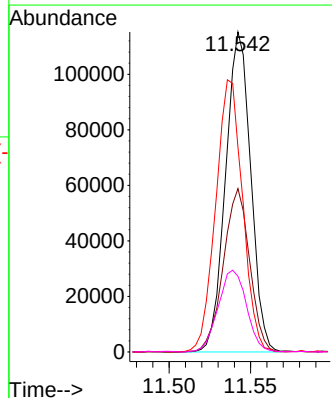
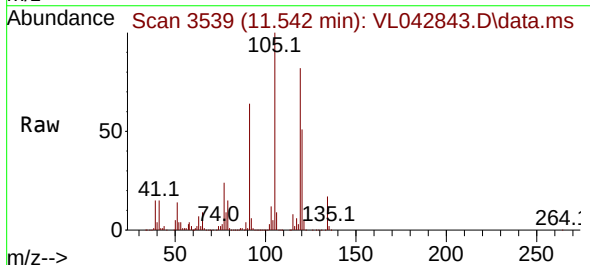
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

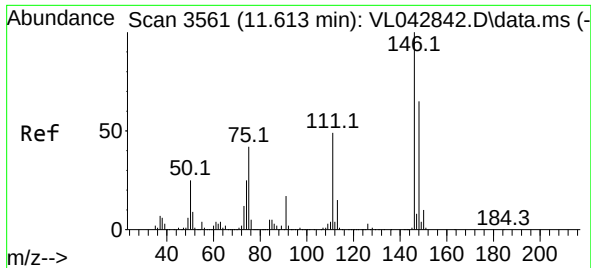
Tgt Ion:105 Resp: 110043
Ion Ratio Lower Upper
105 100
120 46.1 36.6 54.8



#74
1,2,4-Trimethylbenzene
Concen: 2.157 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 123554
Ion Ratio Lower Upper
105 100
120 51.0 39.8 59.6
91 63.9 54.2 81.4
77 23.7 19.8 29.6

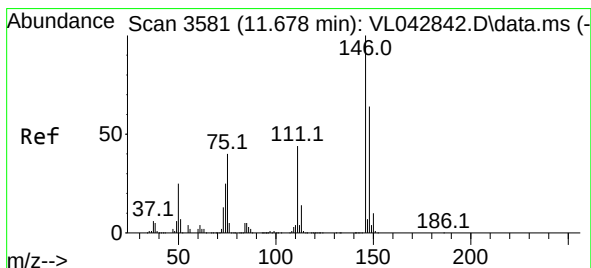
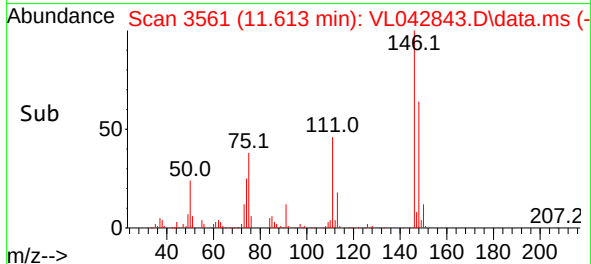
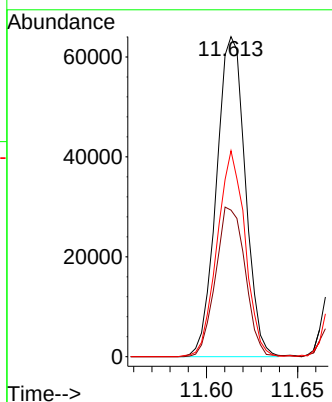
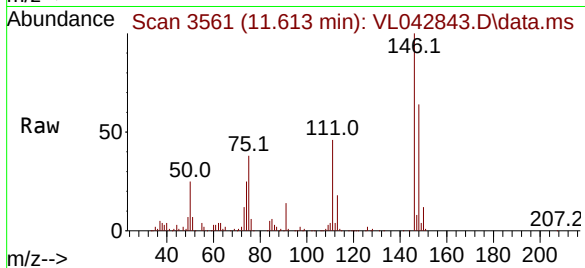




#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

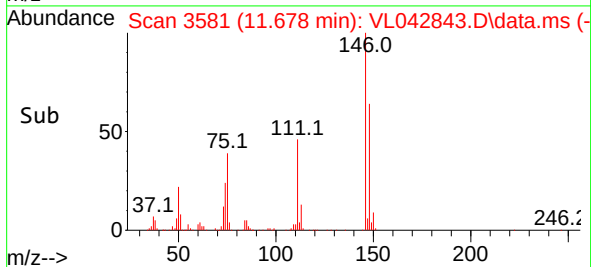
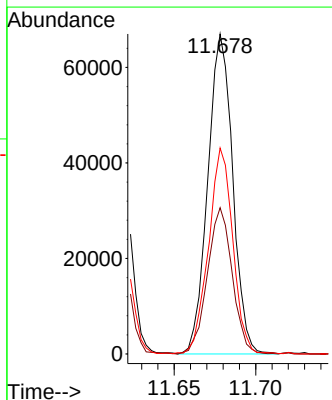
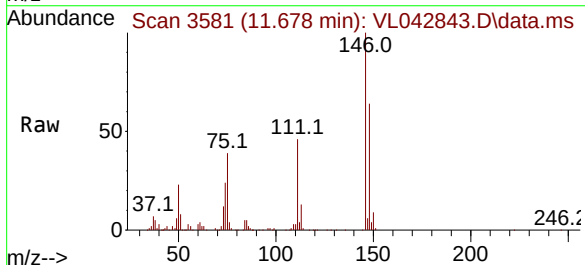
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

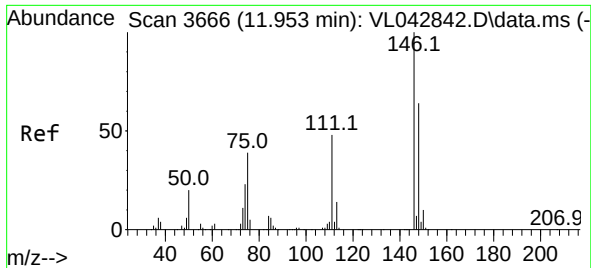
Tgt Ion:146 Resp: 70330
Ion Ratio Lower Upper
146 100
111 48.0 23.9 71.7
148 62.5 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 2.161 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 71160
Ion Ratio Lower Upper
146 100
111 45.7 22.7 68.1
148 62.9 31.8 95.3

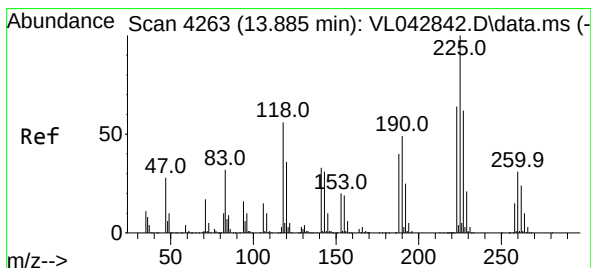
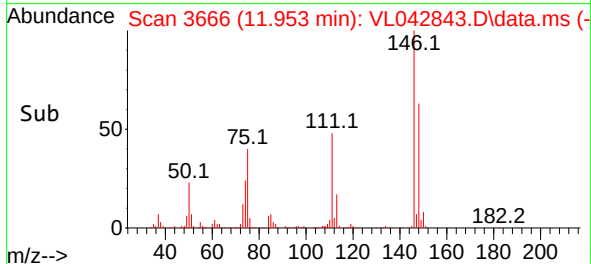
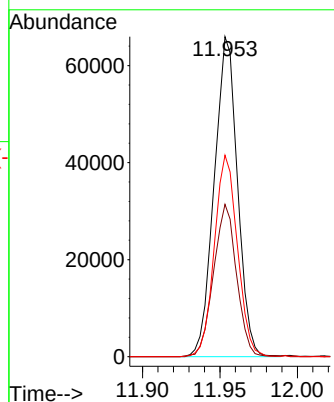
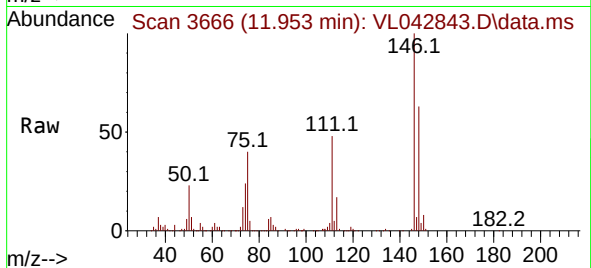




#77
 1,2-Dichlorobenzene
 Concen: 2.162 ppbv
 RT: 11.953 min Scan# 3666
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

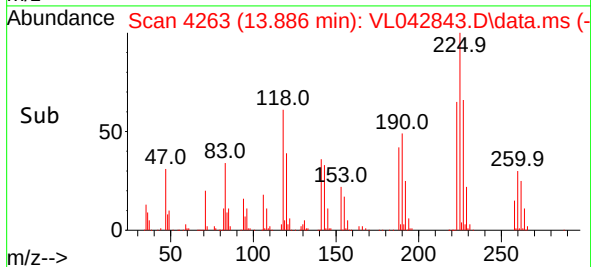
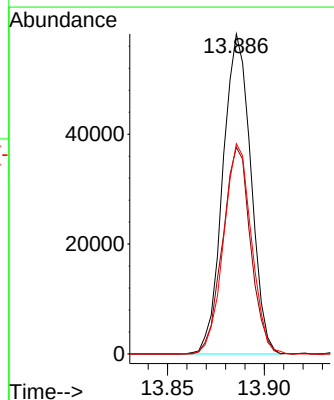
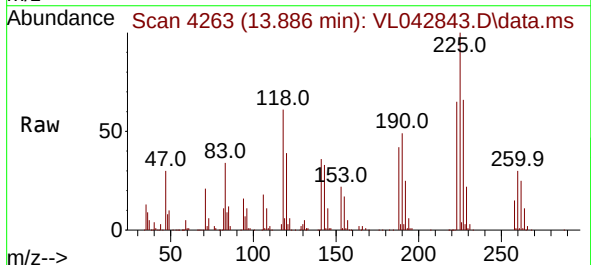
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

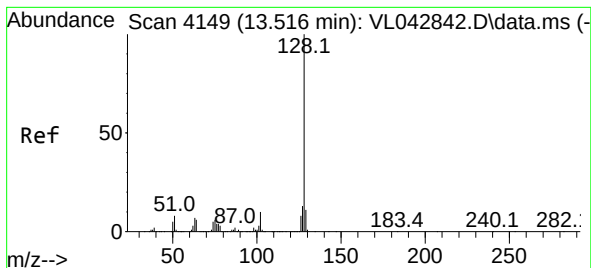
Tgt Ion:146 Resp: 68944
 Ion Ratio Lower Upper
 146 100
 111 47.1 24.6 74.0
 148 62.5 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.239 ppbv
 RT: 13.886 min Scan# 4263
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:225 Resp: 58509
 Ion Ratio Lower Upper
 225 100
 223 64.5 51.4 77.2
 227 65.2 51.9 77.9





#79

Naphthalene

Concen: 2.478 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

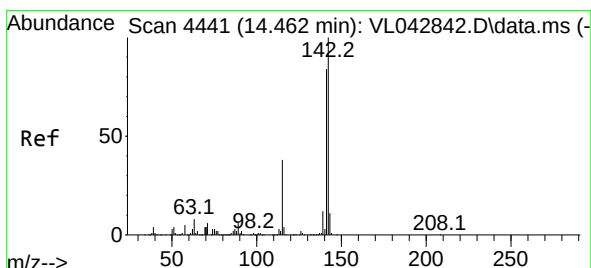
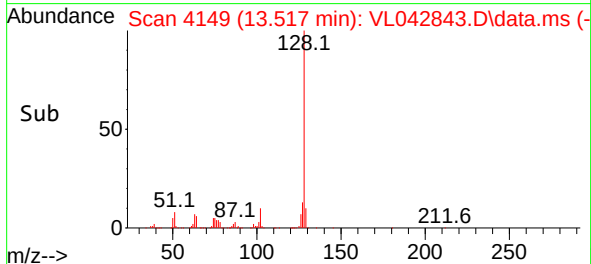
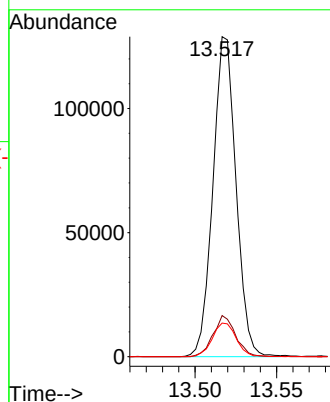
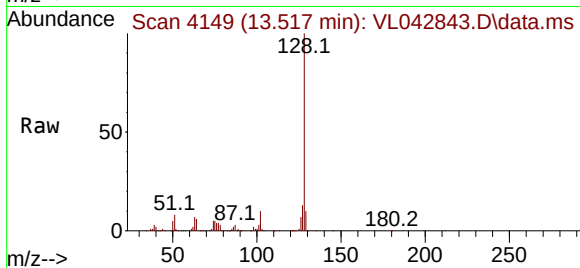
Tgt Ion:128 Resp: 127025

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 10.5 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 2.670 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

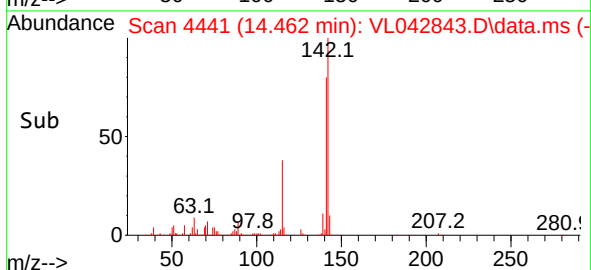
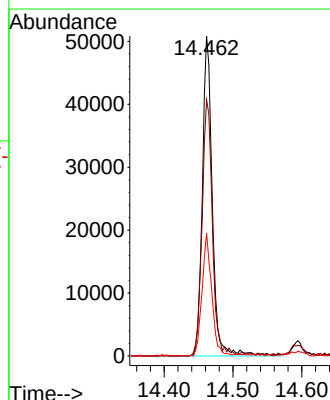
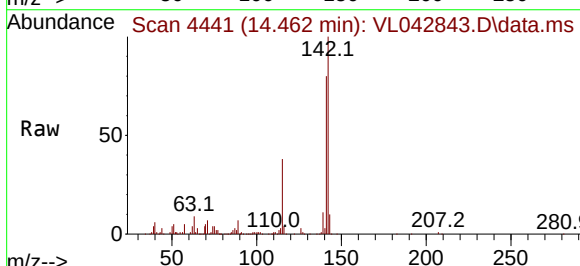
Tgt Ion:142 Resp: 51541

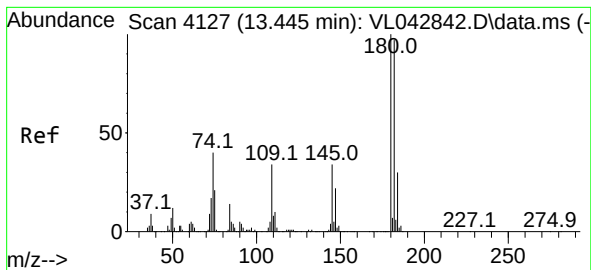
Ion Ratio Lower Upper

142 100

141 83.9 67.0 100.6

115 37.8 30.9 46.3

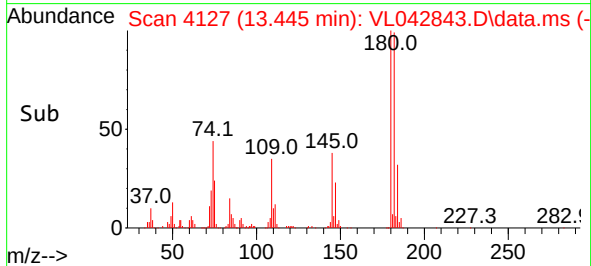
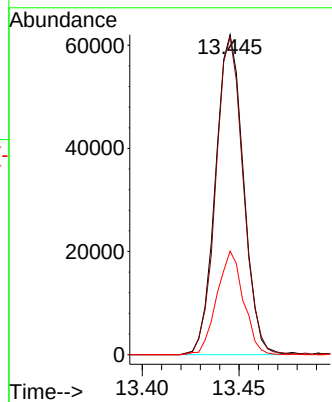
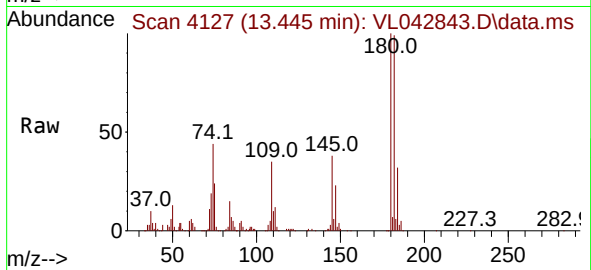




#81
 1,2,4-Trichlorobenzene
 Concen: 2.384 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 62216
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.9 115.3
 184 30.8 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Aug 14 01:47:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	265708	10.135	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.991	43	10068	0.419	ppbv #	1
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	1519	1.705	ppbv	85
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.040	96	6629	0.910	ppbv	84
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	6572	0.469	ppbv #	85
40) 1,4-Dioxane	4.603	88	3925	0.599	ppbv #	25
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.898	69	5494	0.349	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	64930	1.009	ppbv	96
45) t-1,3-Dichloropropene	6.429	75	7736	0.434	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

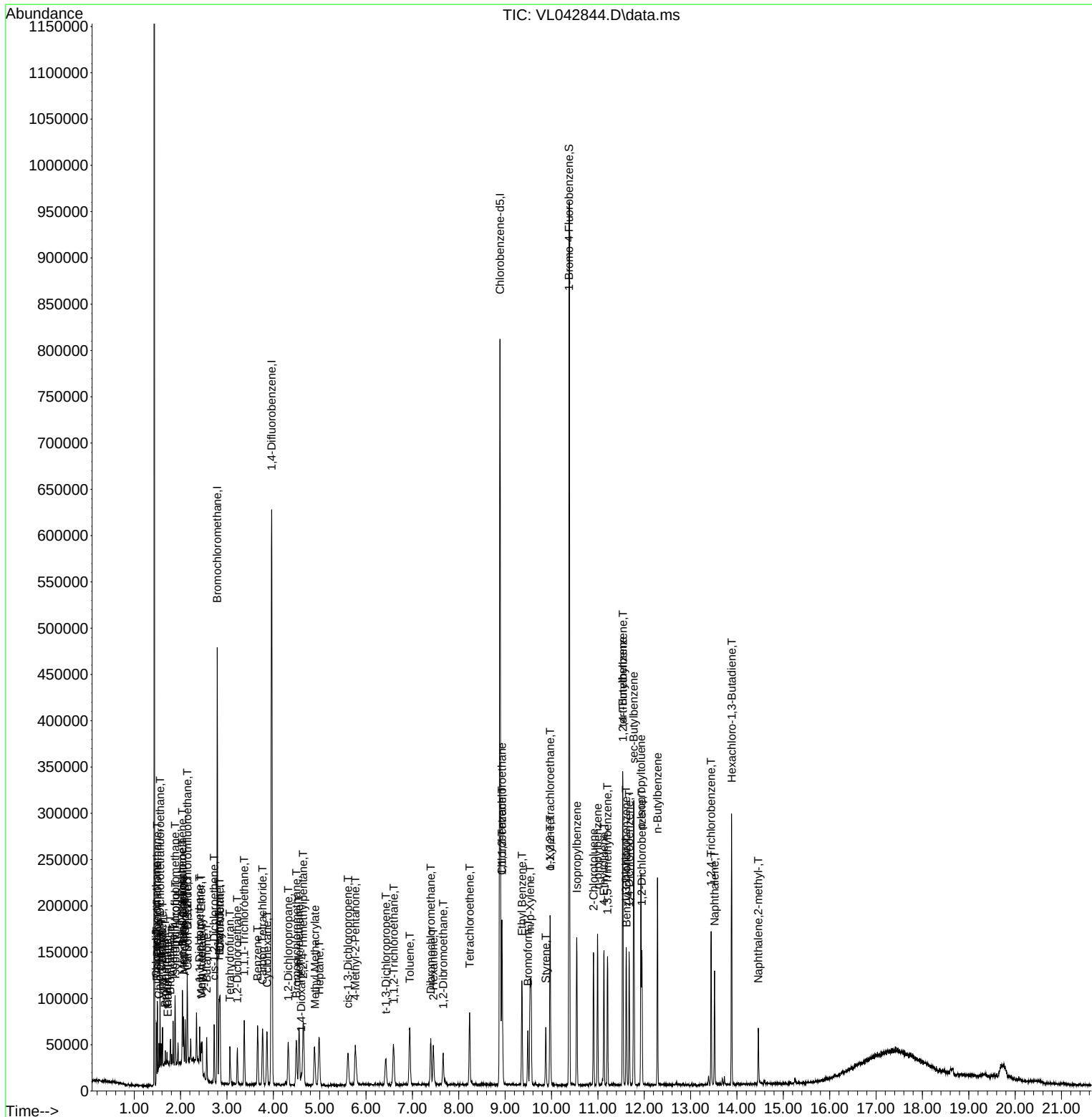
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

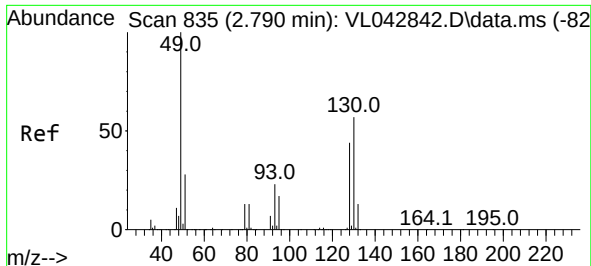
Quant Time: Aug 14 01:47:28 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.539	91	53658	1.108	ppbv #	100
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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

Quant Time: Aug 14 01:47:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

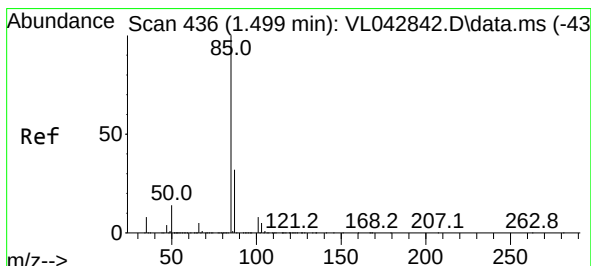
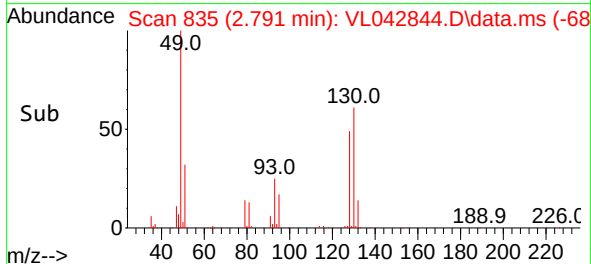
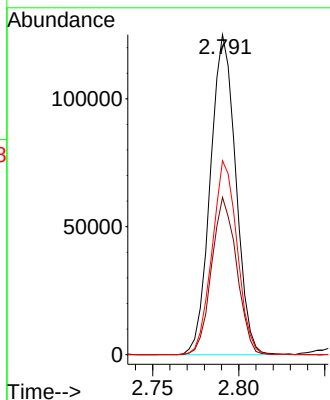
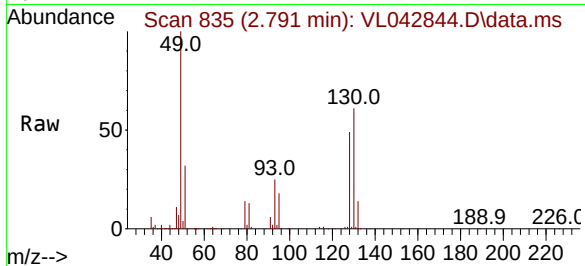




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

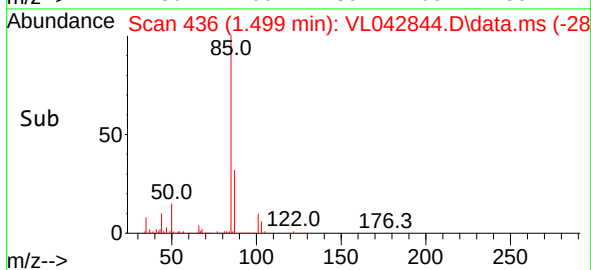
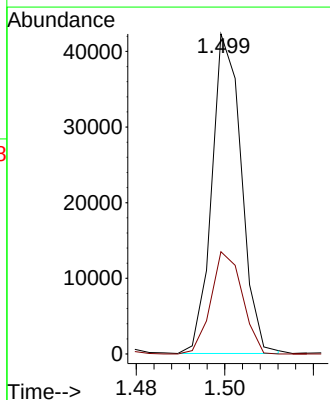
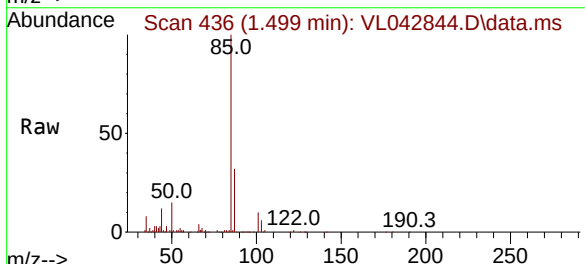
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

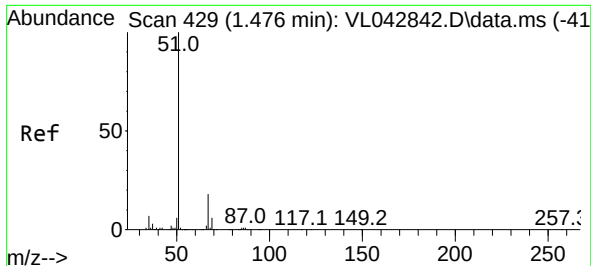
Tgt Ion: 49 Resp: 128542
Ion Ratio Lower Upper
49 100
128 48.4 23.7 71.1
130 59.9 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 19603
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9

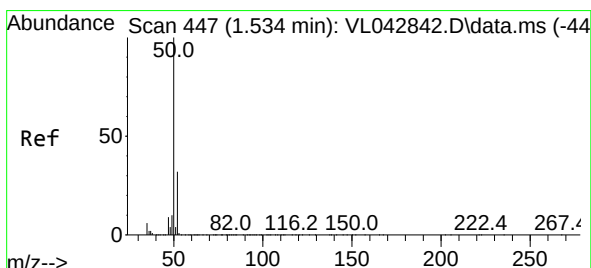
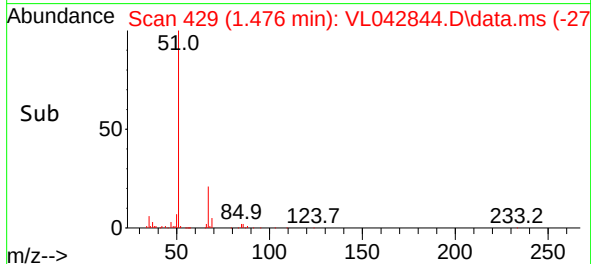
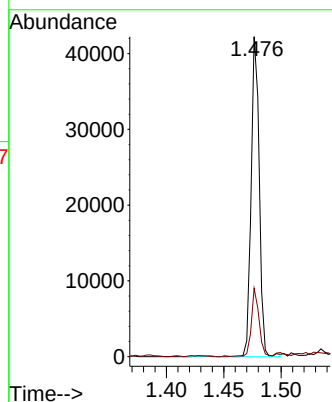
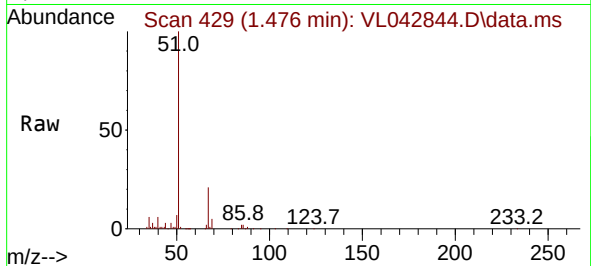




#3
Chlorodifluoromethane
Concen: 0.999 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

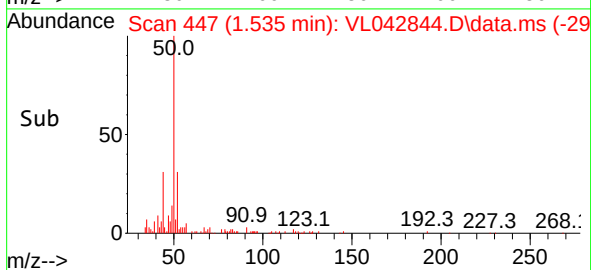
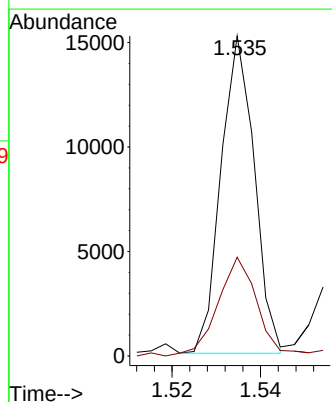
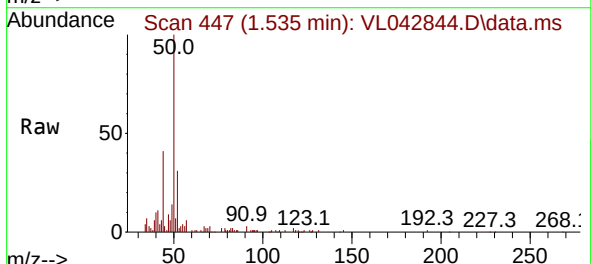
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

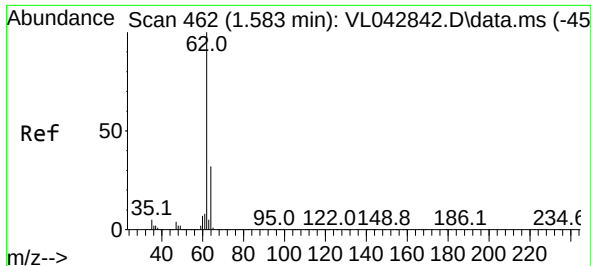
Tgt Ion: 51 Resp: 20833
Ion Ratio Lower Upper
51 100
67 21.9 14.9 22.3



#4
Chloromethane
Concen: 1.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 50 Resp: 7948
Ion Ratio Lower Upper
50 100
52 30.2 25.9 38.9

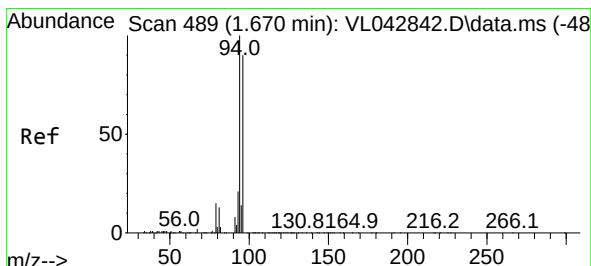
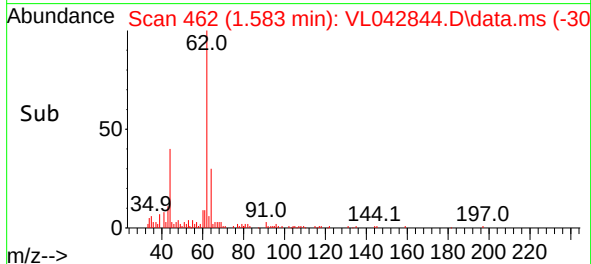
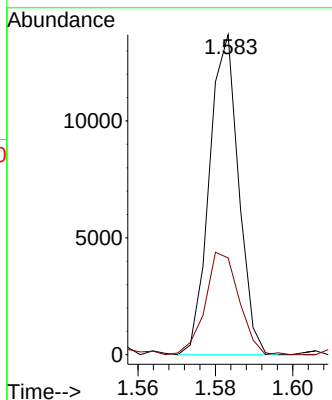
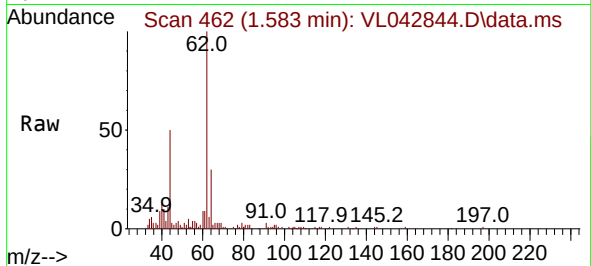




#5
 Vinyl Chloride
 Concen: 0.960 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

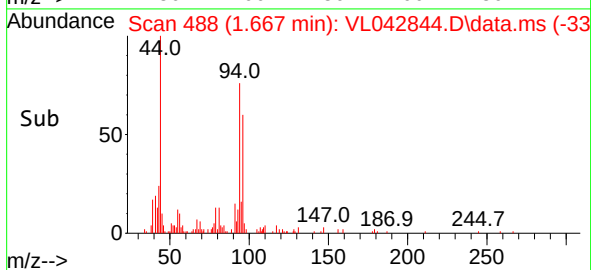
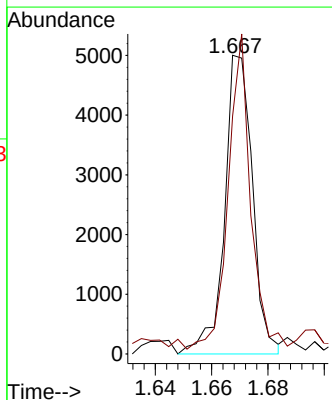
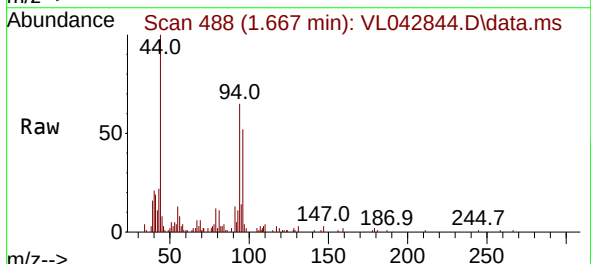
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

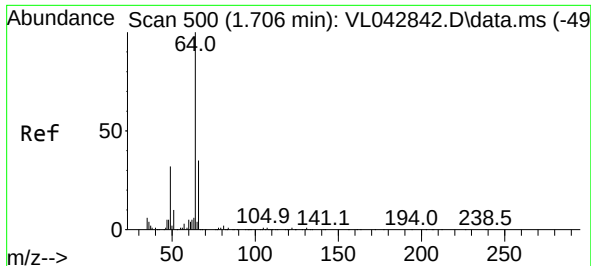
Tgt Ion: 62 Resp: 7189
 Ion Ratio Lower Upper
 62 100
 64 29.7 25.4 38.2



#6
 Bromomethane
 Concen: 1.151 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 94 Resp: 3446
 Ion Ratio Lower Upper
 94 100
 96 74.7 72.1 108.1

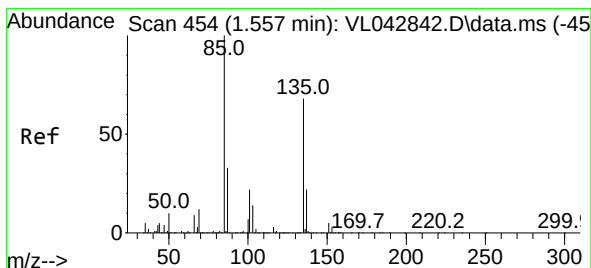
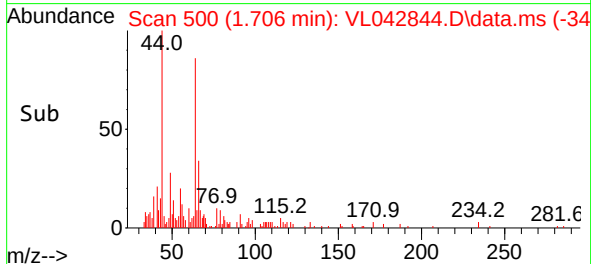
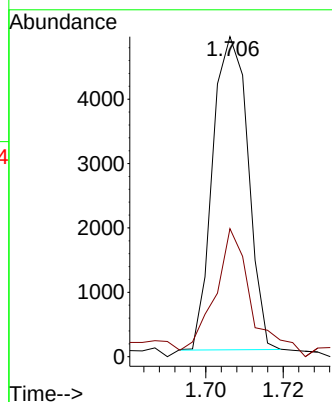
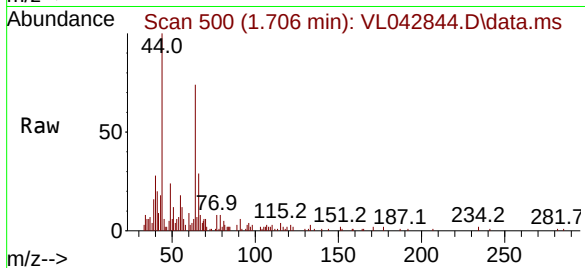




#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

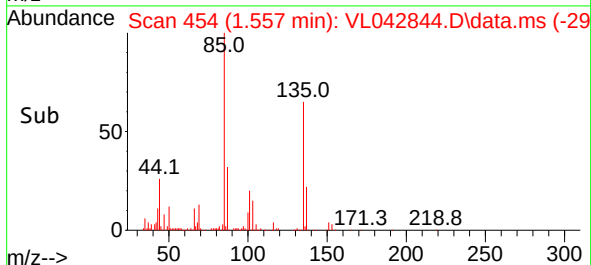
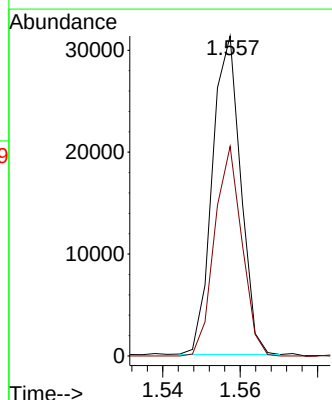
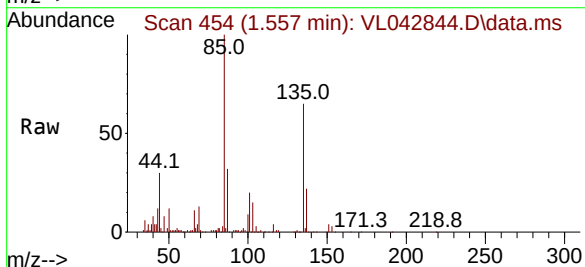
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

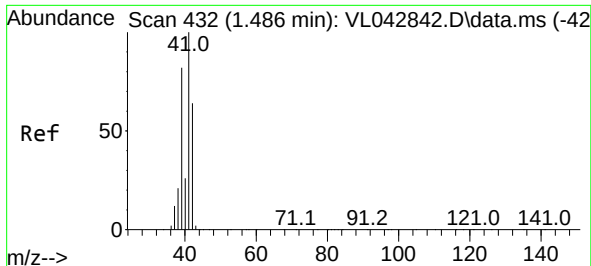
Tgt Ion: 64 Resp: 3089
Ion Ratio Lower Upper
64 100
66 40.0 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 1.030 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 15872
Ion Ratio Lower Upper
85 100
135 63.7 51.2 76.8





#9

Propene

Concen: 0.989 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

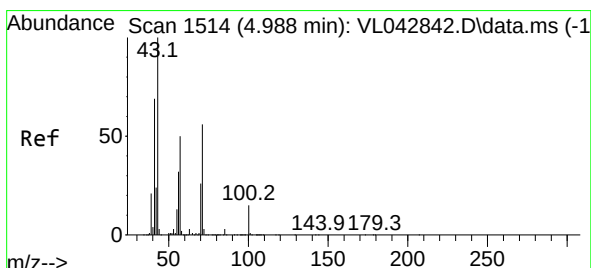
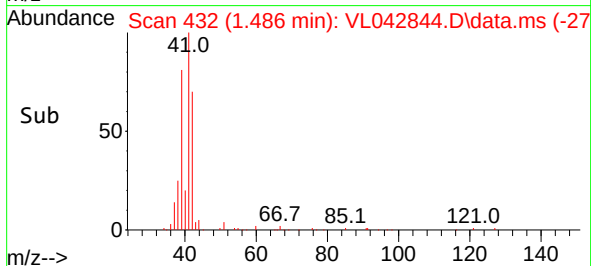
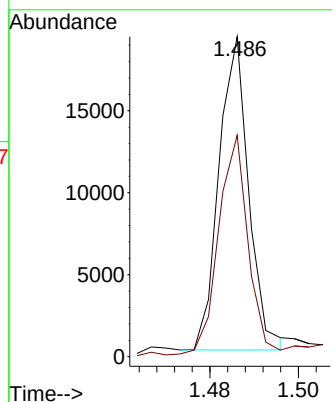
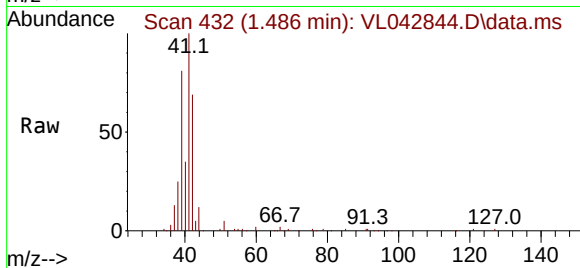
VSTDIC001

Tgt Ion: 41 Resp: 8897

Ion Ratio Lower Upper

41 100

42 74.9 53.0 79.4



#10

Heptane

Concen: 0.419 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.004 min

Lab File: VL042844.D

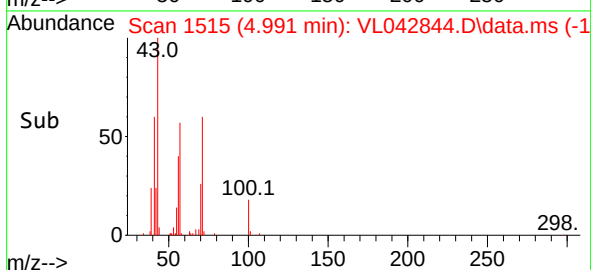
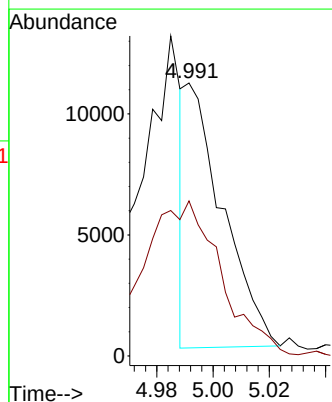
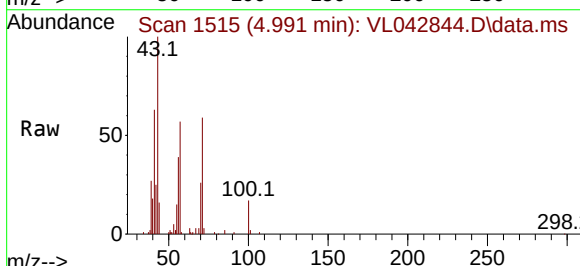
Acq: 13 Aug 2025 09:41

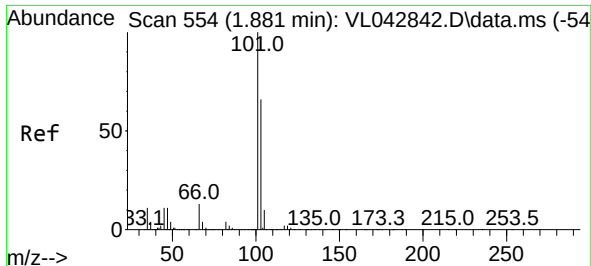
Tgt Ion: 43 Resp: 10068

Ion Ratio Lower Upper

43 100

57 133.5 41.4 62.0#

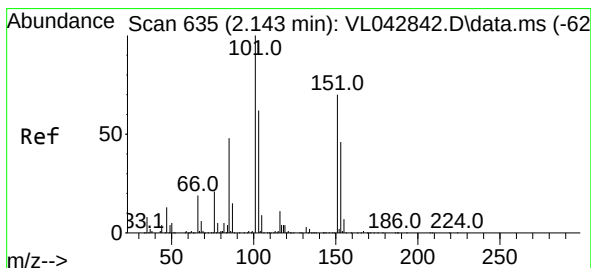
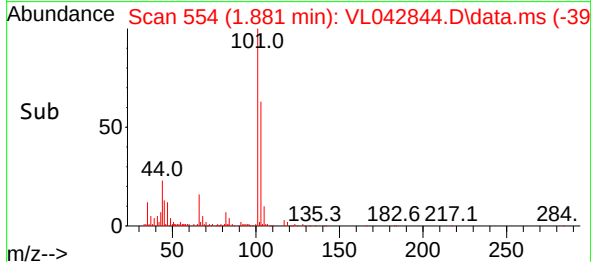
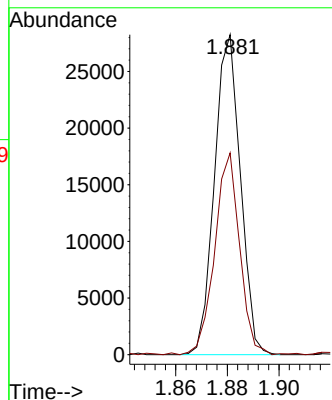
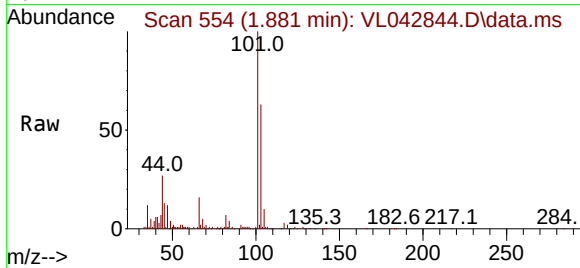




#11
 Trichlorofluoromethane
 Concen: 1.060 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

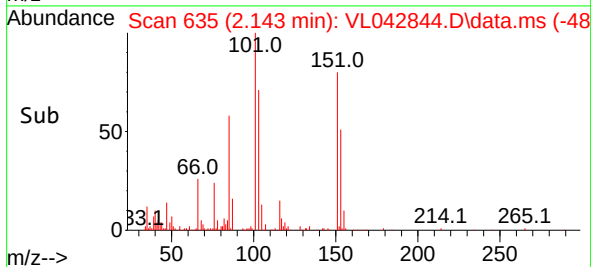
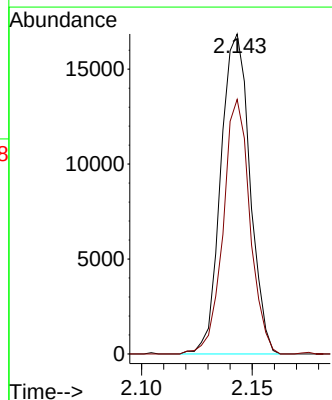
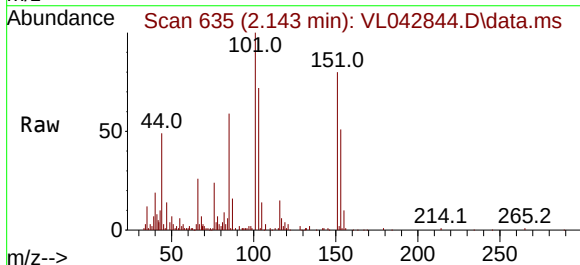
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

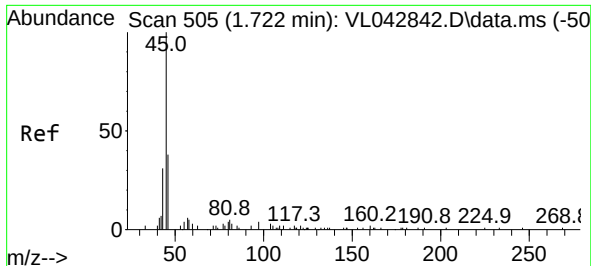
Tgt Ion:101 Resp: 19701
 Ion Ratio Lower Upper
 101 100
 103 62.8 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.043 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:101 Resp: 15446
 Ion Ratio Lower Upper
 101 100
 151 73.2 56.4 84.6

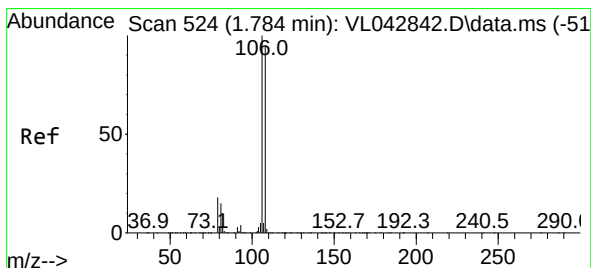
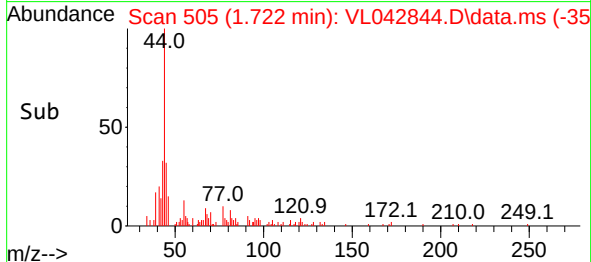
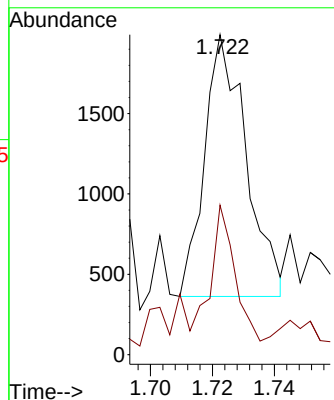
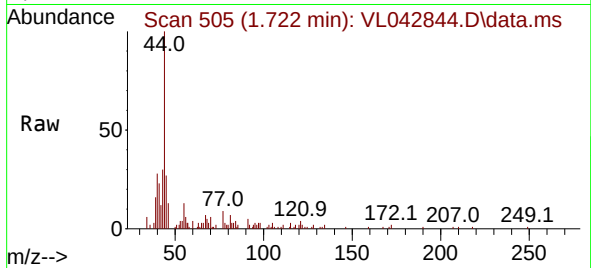




#13
Ethanol
Concen: 1.705 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

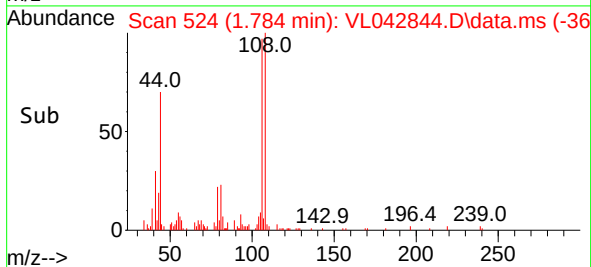
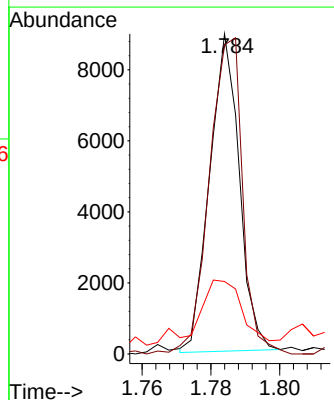
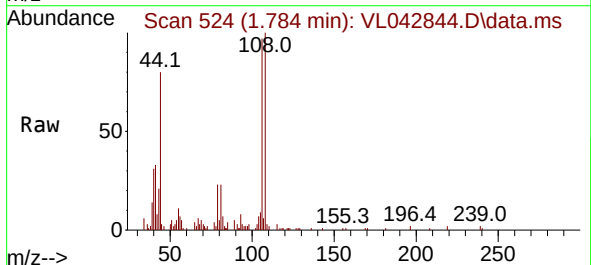
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

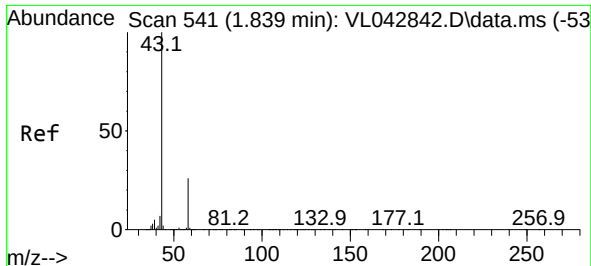
Tgt Ion: 45 Resp: 1519
Ion Ratio Lower Upper
45 100
46 53.5 17.5 69.9



#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 108 Resp: 5343
Ion Ratio Lower Upper
108 100
106 117.1 85.1 127.7
79 58.9 16.3 24.5

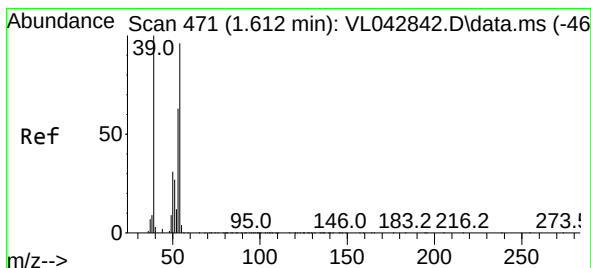
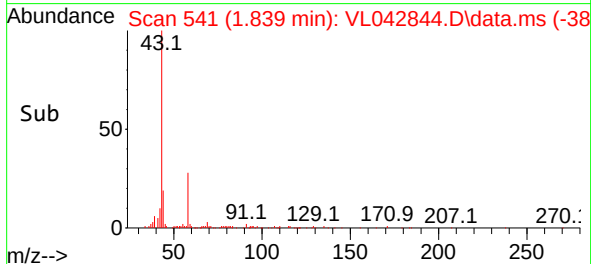
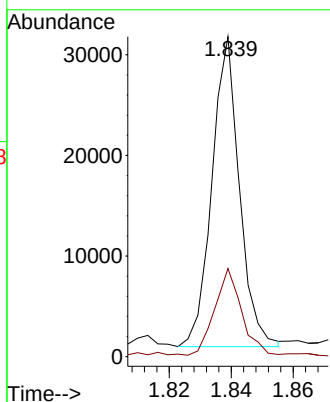
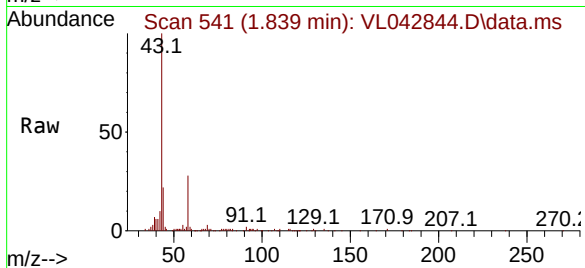




#15
Acetone
Concen: 1.115 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

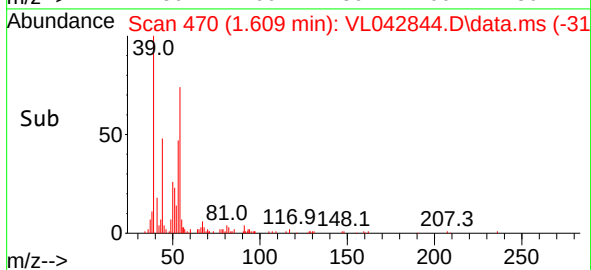
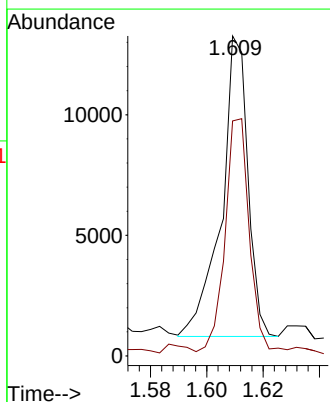
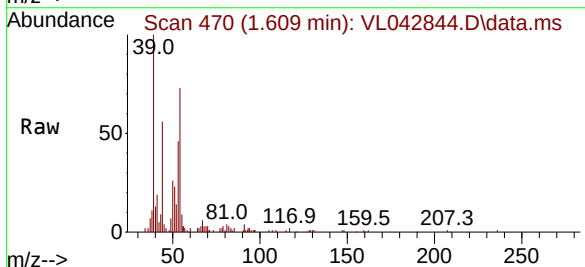
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

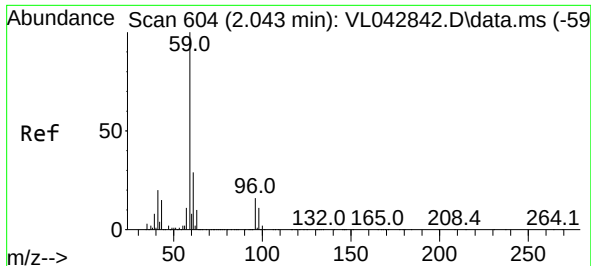
Tgt Ion: 43 Resp: 18961
Ion Ratio Lower Upper
43 100
58 29.1 22.4 33.6



#16
1,3-Butadiene
Concen: 1.055 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 39 Resp: 8133
Ion Ratio Lower Upper
39 100
54 78.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.058 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

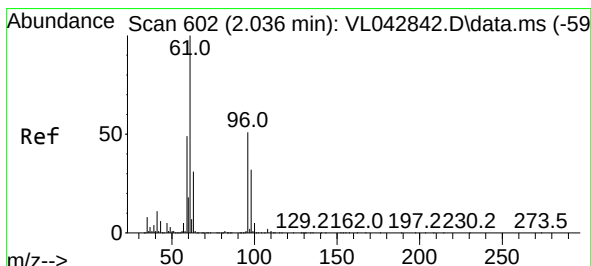
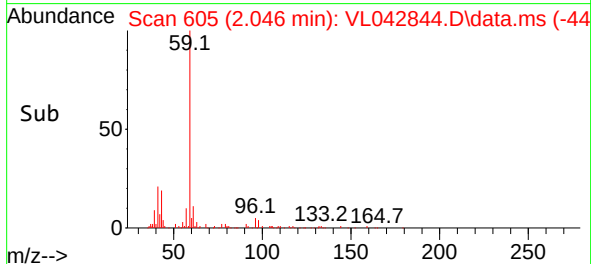
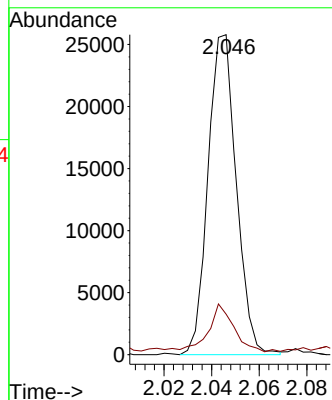
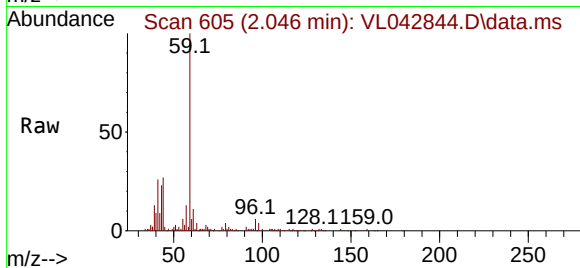
VSTDIC001

Tgt Ion: 59 Resp: 21342

Ion Ratio Lower Upper

59 100

57 13.7 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 1.006 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

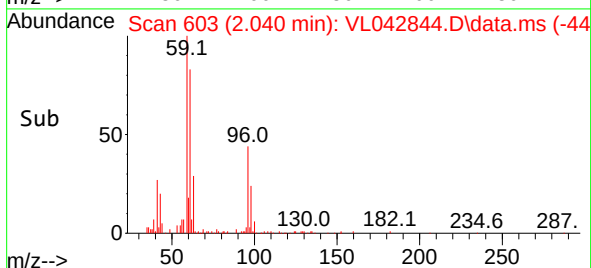
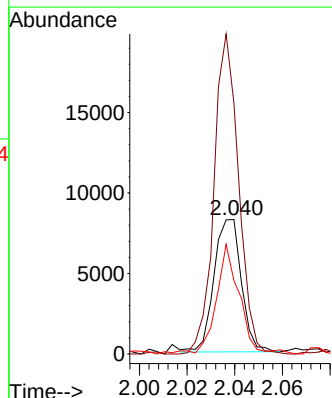
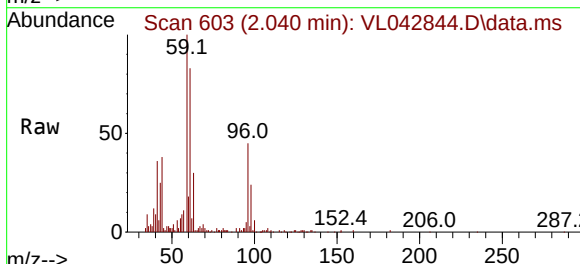
Tgt Ion: 96 Resp: 6549

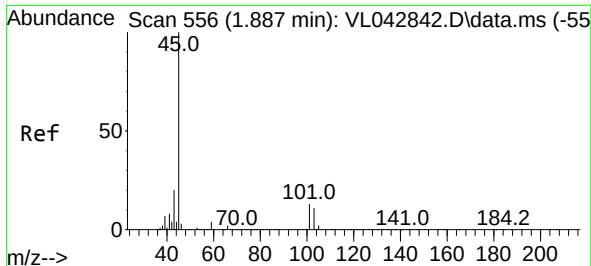
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0

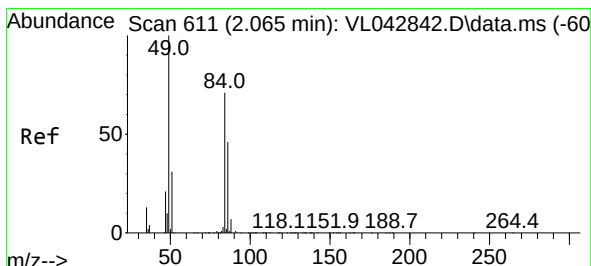
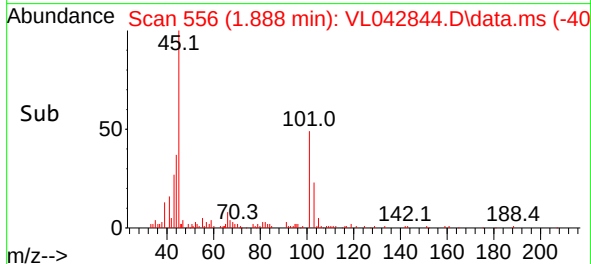
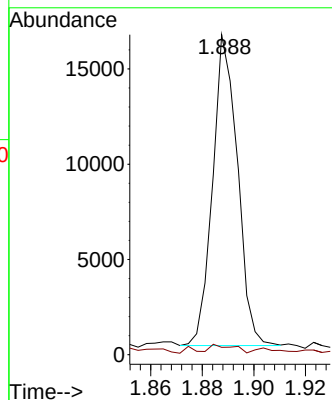
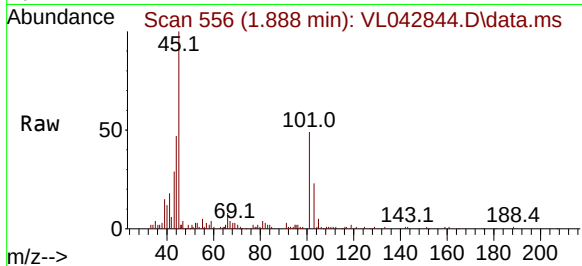




#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

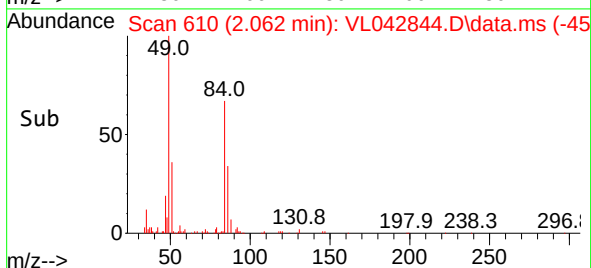
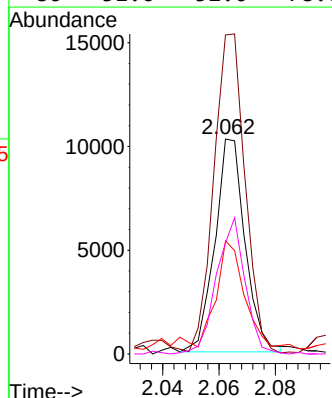
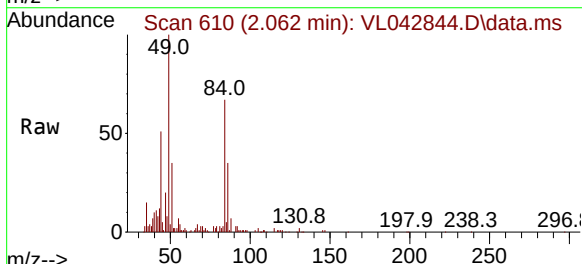
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

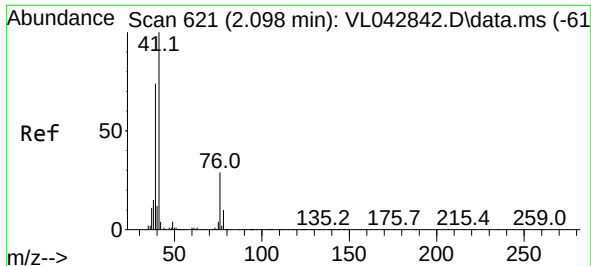
Tgt Ion: 45 Resp: 10893
Ion Ratio Lower Upper
45 100
58 2.9 32.7 49.1#



#20
Methylene Chloride
Concen: 1.076 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 84 Resp: 7661
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 49.2 36.0 54.0
86 51.6 52.0 78.0#

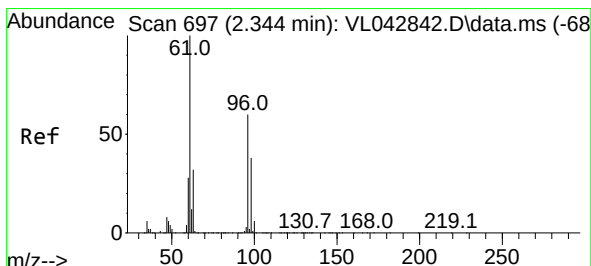
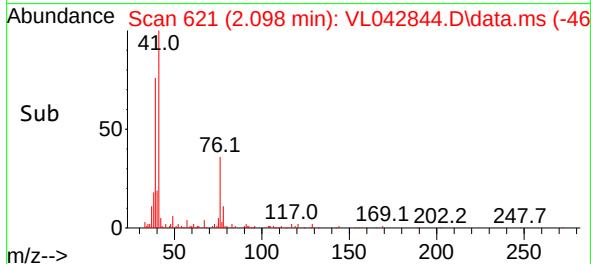
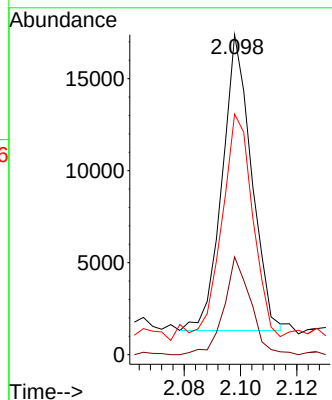
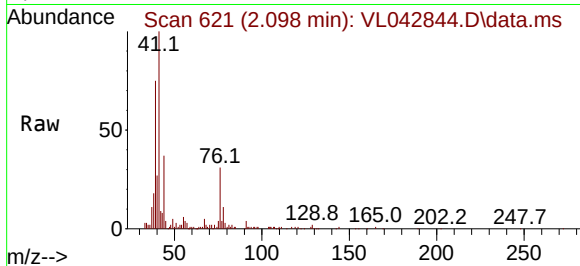




#21
 Allyl Chloride
 Concen: 0.966 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

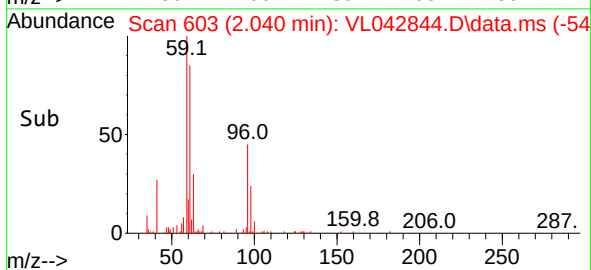
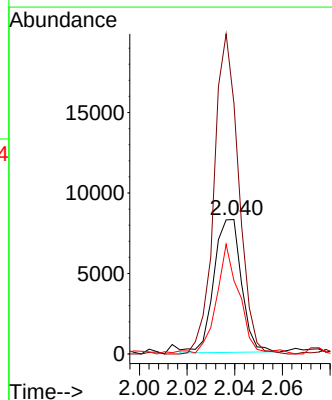
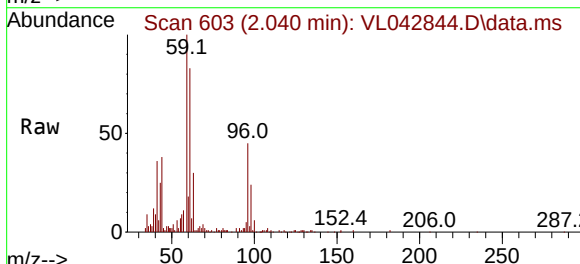
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

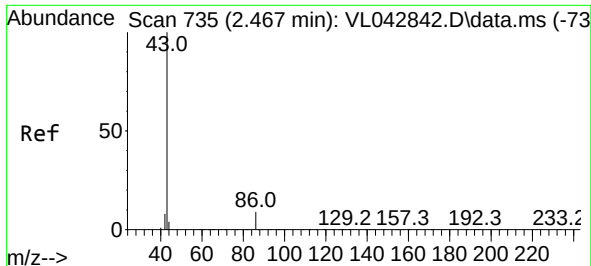
Tgt Ion: 41	Resp: 11598
Ion Ratio	Lower Upper
41	100
76	30.9 23.9 35.9
39	86.2 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 0.910 ppbv
 RT: 2.040 min Scan# 603
 Delta R.T. -0.304 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 96	Resp: 6629
Ion Ratio	Lower Upper
96	100
61	189.6 132.6 199.0
98	53.1 50.0 75.0

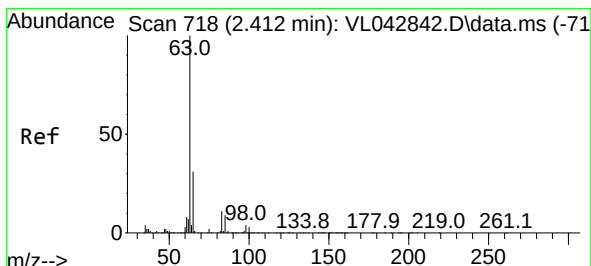
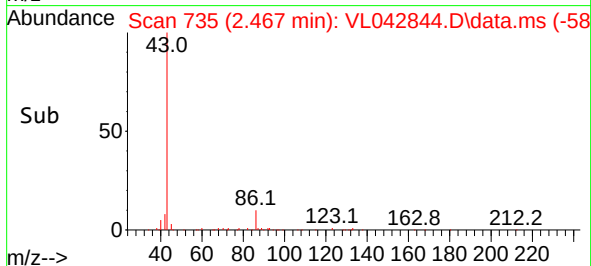
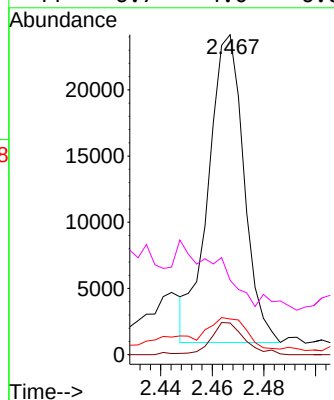
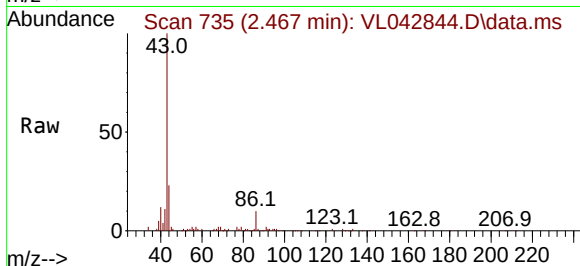




#23
 Vinyl Acetate
 Concen: 0.996 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

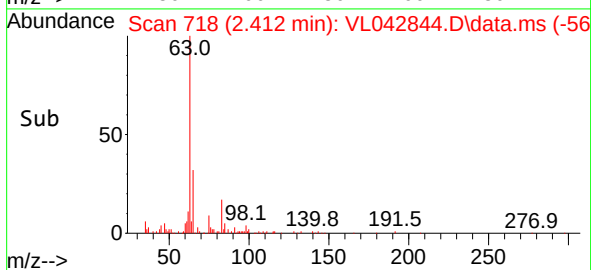
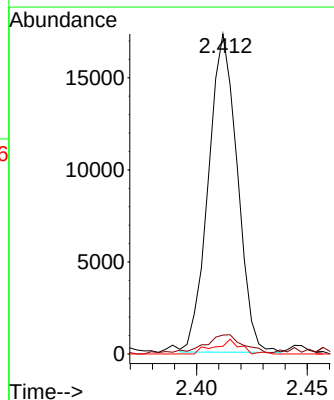
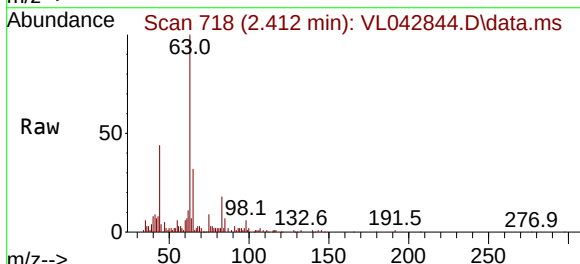
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

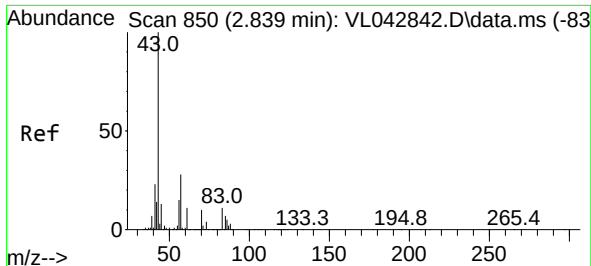
Tgt Ion:	43	Resp:	22270
Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.6	9.8#
42	9.8	7.0	10.6
44	6.7	4.0	6.0#



#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	63	Resp:	15727
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.1	6.5
100	2.4	1.7	5.1

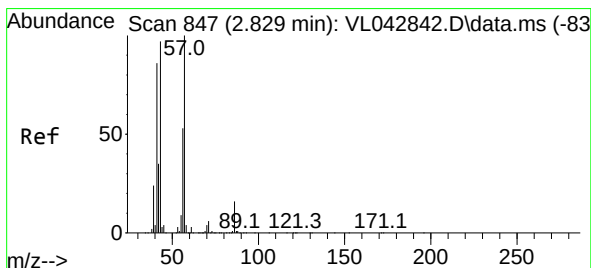
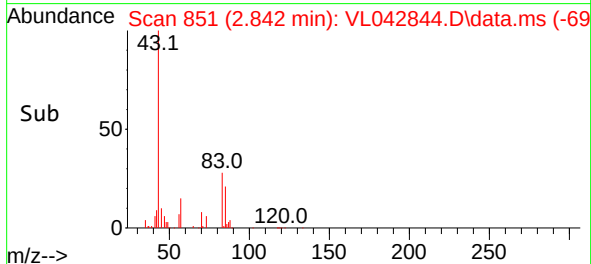
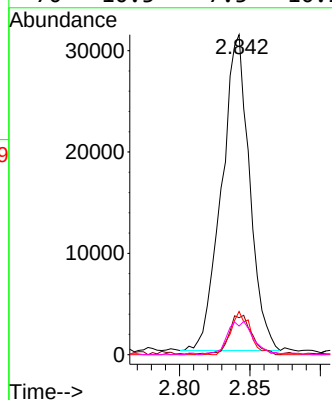
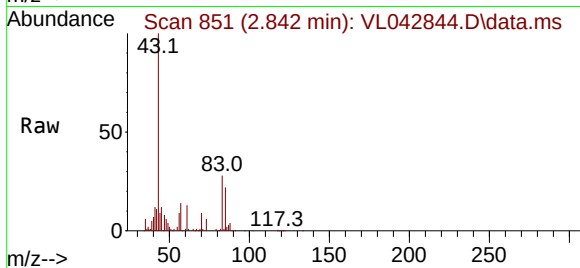




#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

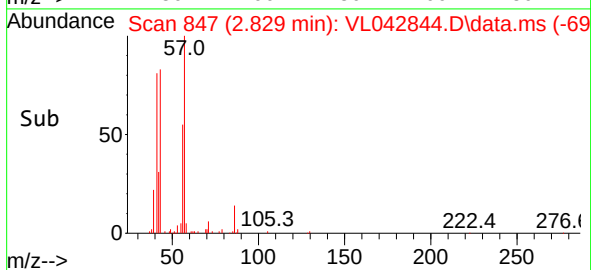
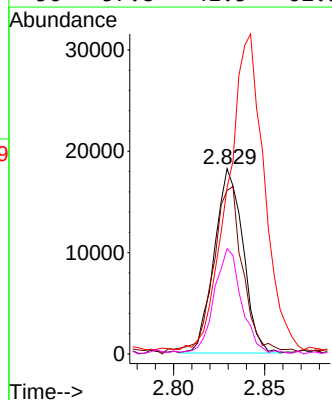
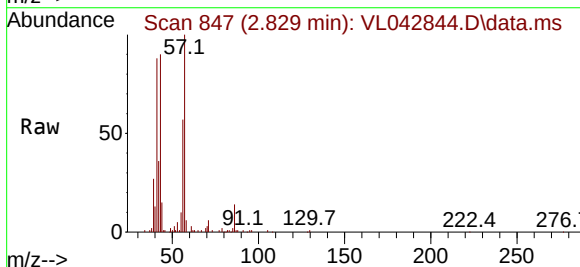
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

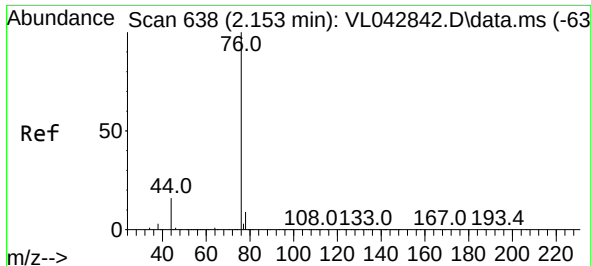
Tgt Ion:	43	Resp:	43007
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.7	7.4	11.2
70	10.3	7.3	10.9



#26
Hexane
Concen: 1.050 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:	57	Resp:	19944
Ion	Ratio	Lower	Upper
57	100		
41	93.6	68.6	103.0
43	222.4	168.5	252.7
56	57.8	41.5	62.3





#27

Carbon Disulfide

Concen: 1.052 ppbv

RT: 2.153 min Scan# 638

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

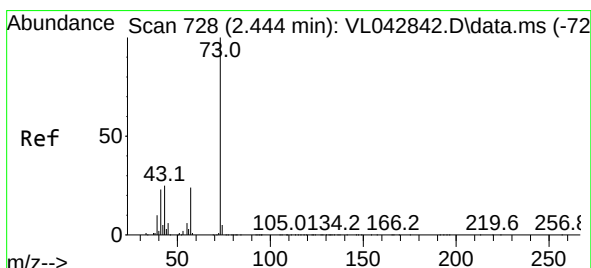
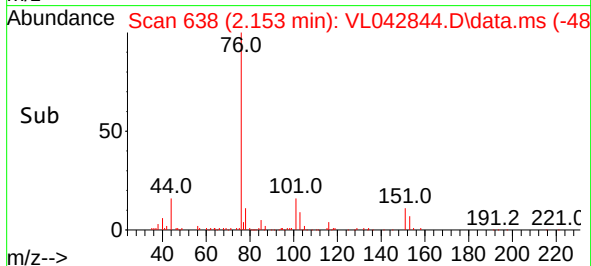
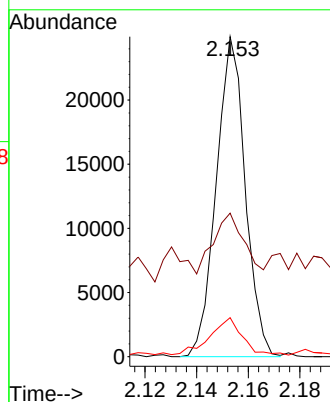
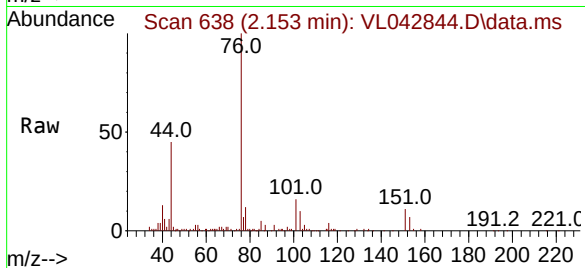
Tgt Ion: 76 Resp: 19450

Ion Ratio Lower Upper

76 100

44 88.3 15.9 23.9#

78 17.1 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.991 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.000 min

Lab File: VL042844.D

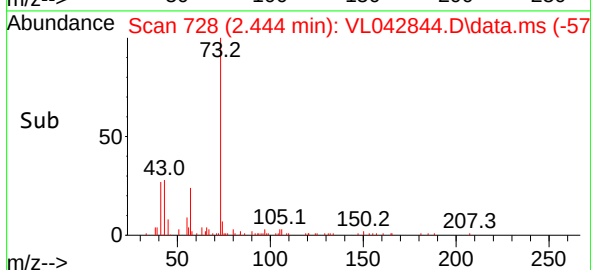
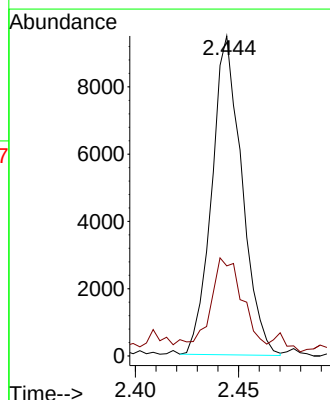
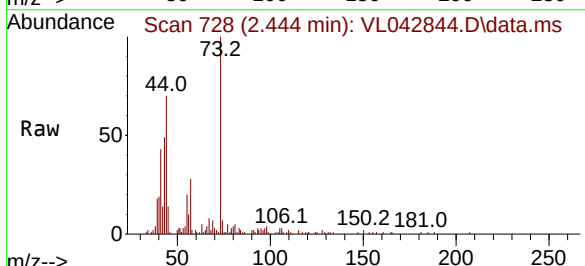
Acq: 13 Aug 2025 09:41

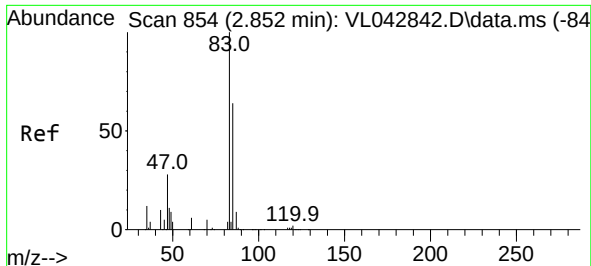
Tgt Ion: 73 Resp: 9600

Ion Ratio Lower Upper

73 100

57 33.4 21.6 32.4#





#29

Chloroform

Concen: 1.034 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

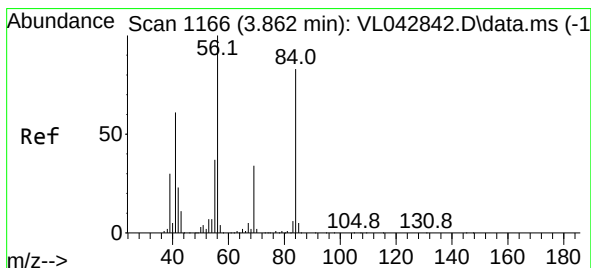
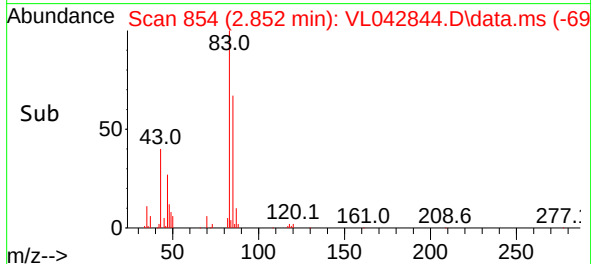
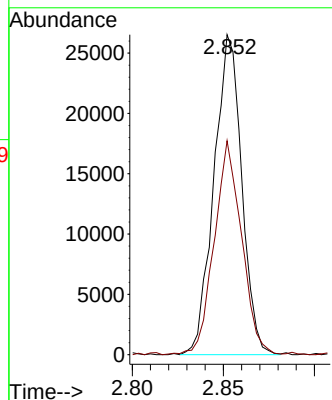
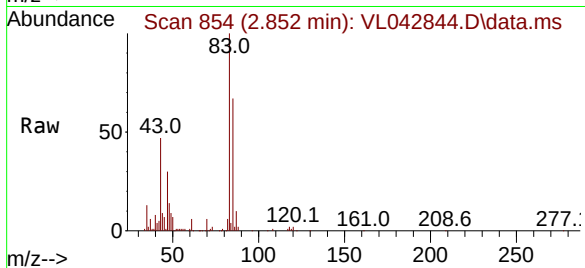
VSTDIC001

Tgt Ion: 83 Resp: 28055

Ion Ratio Lower Upper

83 100

85 66.6 51.1 76.7



#30

Cyclohexane

Concen: 0.990 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

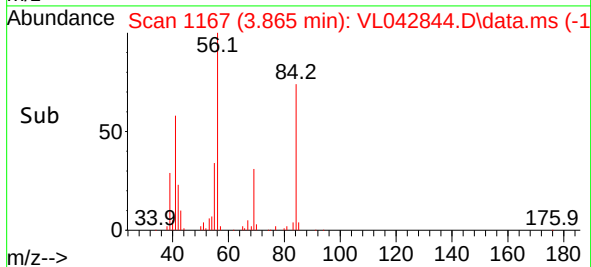
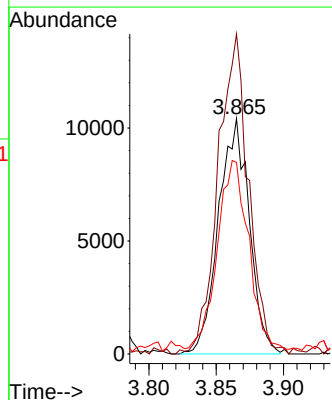
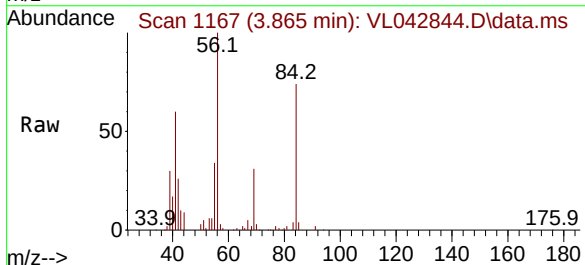
Tgt Ion: 84 Resp: 16492

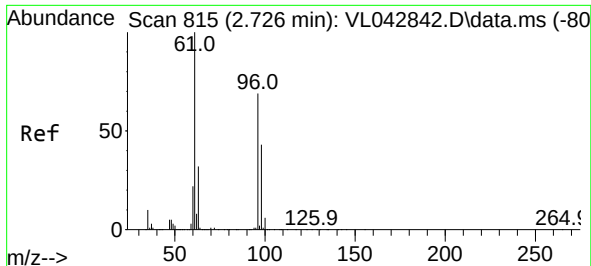
Ion Ratio Lower Upper

84 100

56 135.9 98.8 148.2

41 84.9 61.3 91.9

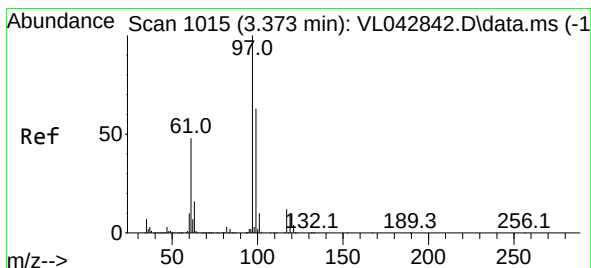
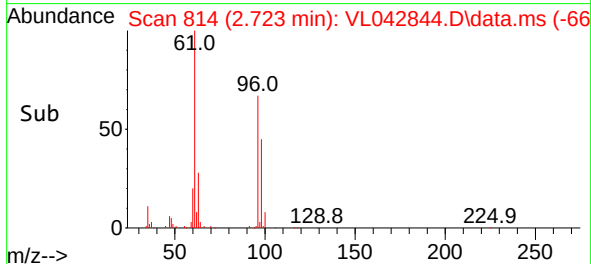
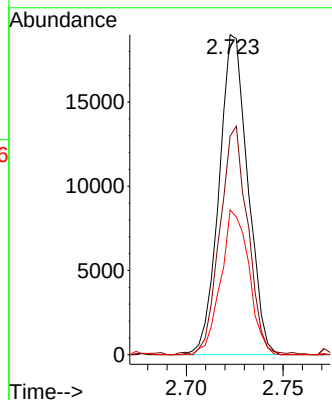
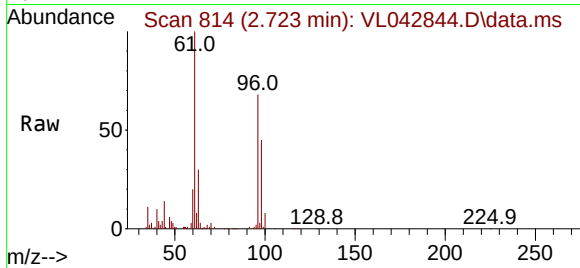




#31
 cis-1,2-Dichloroethene
 Concen: 1.031 ppbv
 RT: 2.723 min Scan# 815
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

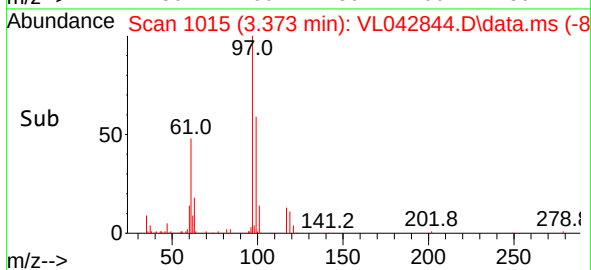
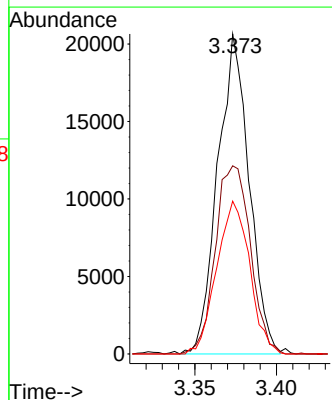
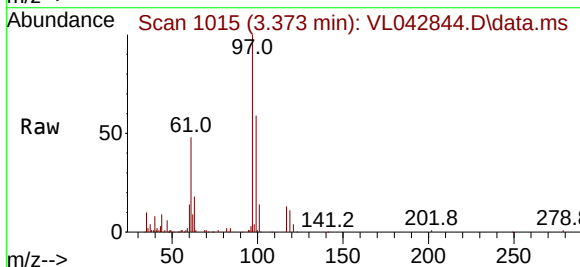
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

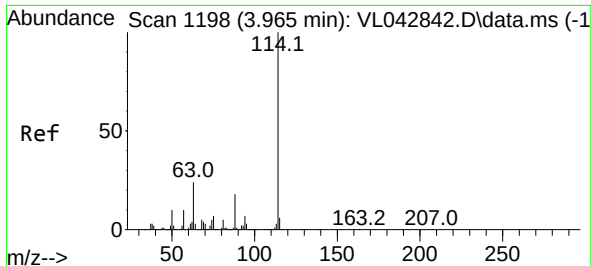
Tgt Ion:	61	Resp:	19591
Ion	Ratio	Lower	Upper
61	100		
96	67.7	55.0	82.6
98	45.2	34.3	51.5



#32
 1,1,1-Trichloroethane
 Concen: 0.961 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	97	Resp:	27607
Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.0	76.6
61	50.2	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

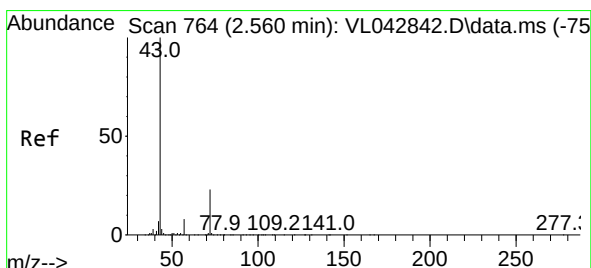
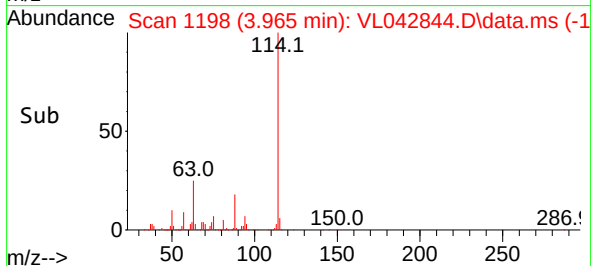
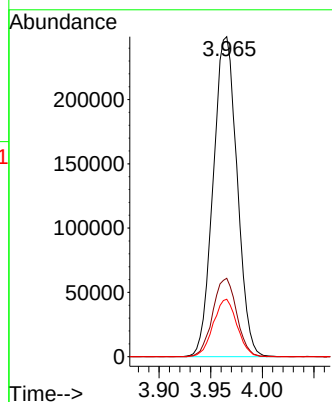
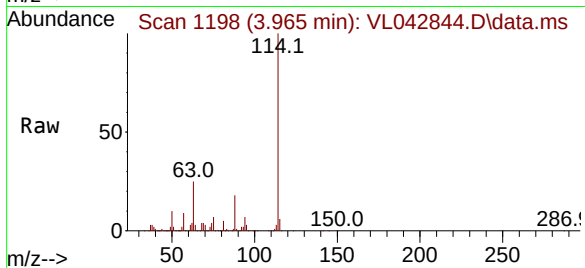
Tgt Ion:114 Resp: 400305

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 1.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042844.D

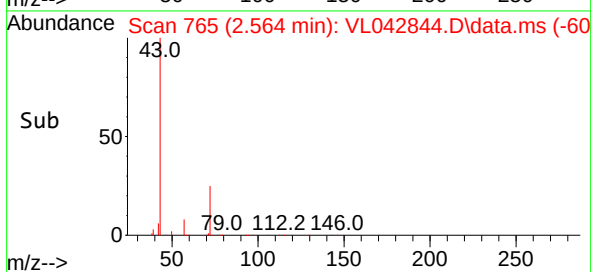
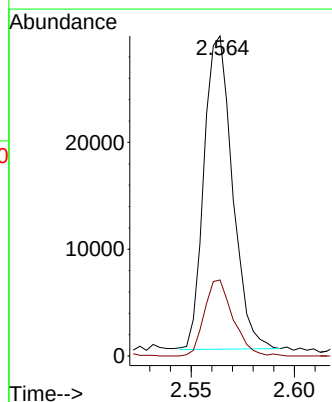
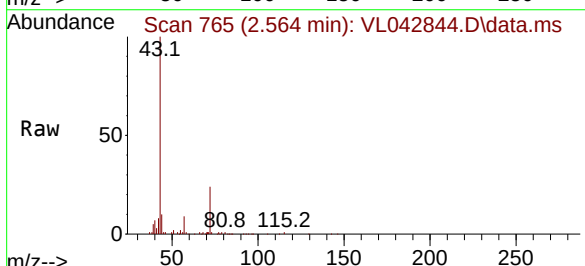
Acq: 13 Aug 2025 09:41

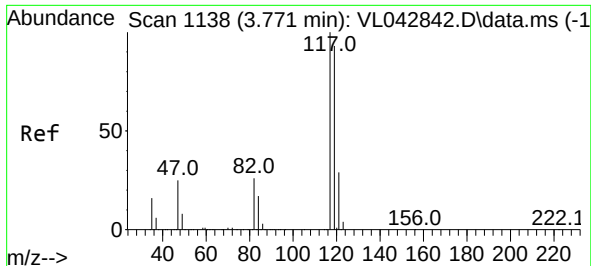
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

72 24.4 18.6 28.0

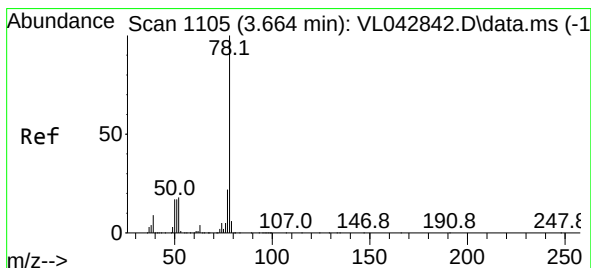
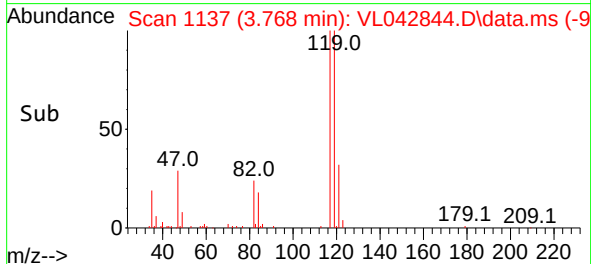
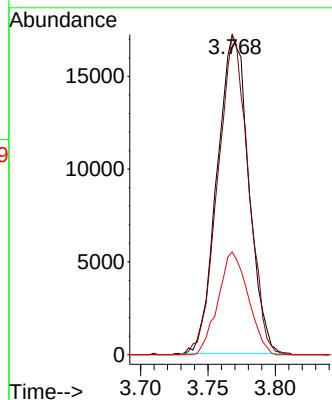
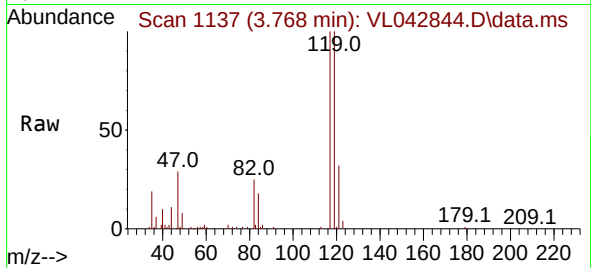




#35
Carbon Tetrachloride
Concen: 1.015 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

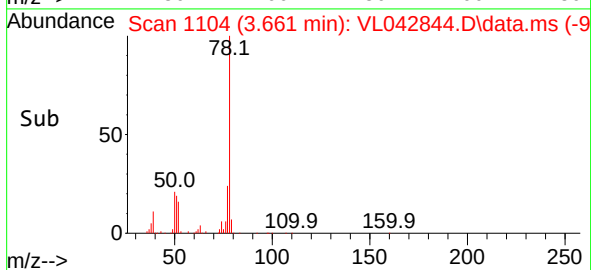
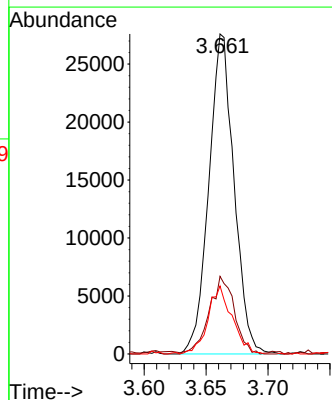
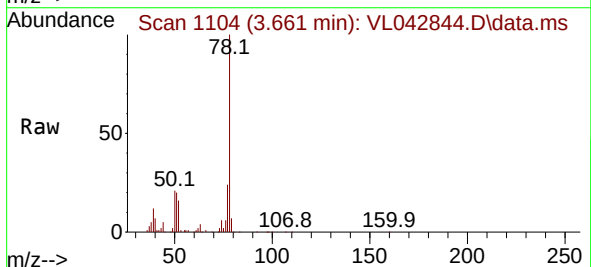
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

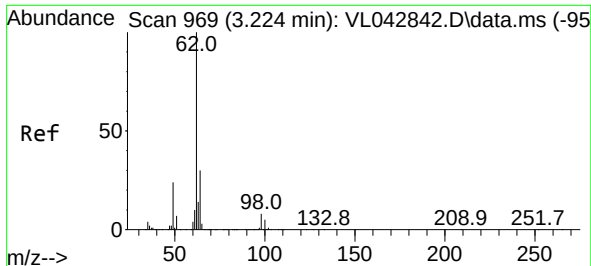
Tgt Ion:117 Resp: 28008
Ion Ratio Lower Upper
117 100
119 100.5 74.7 112.1
121 32.3 23.2 34.8



#36
Benzene
Concen: 1.021 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 78 Resp: 39137
Ion Ratio Lower Upper
78 100
77 23.8 17.7 26.5
50 21.1 13.9 20.9#





#37

1,2-Dichloroethane

Concen: 1.031 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

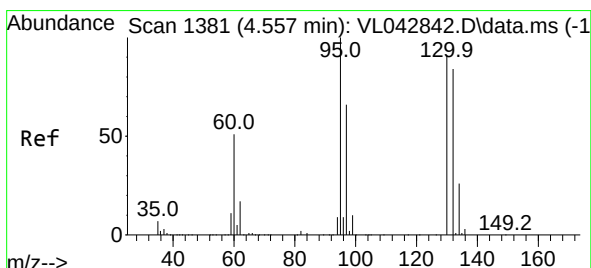
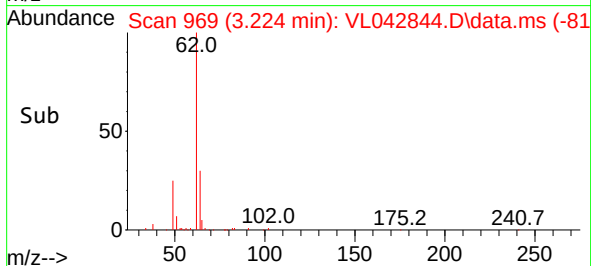
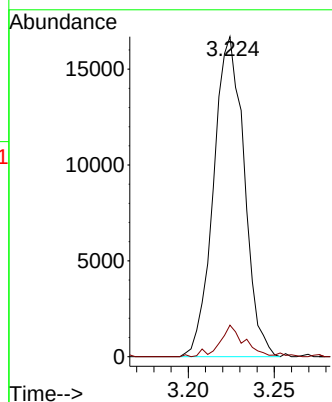
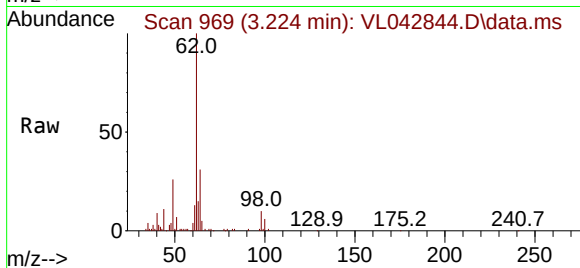
VSTDIC001

Tgt Ion: 62 Resp: 20645

Ion Ratio Lower Upper

62 100

98 8.4 5.9 8.9



#38

Trichloroethene

Concen: 1.024 ppbv

RT: 4.555 min Scan# 1380

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:130 Resp: 17921

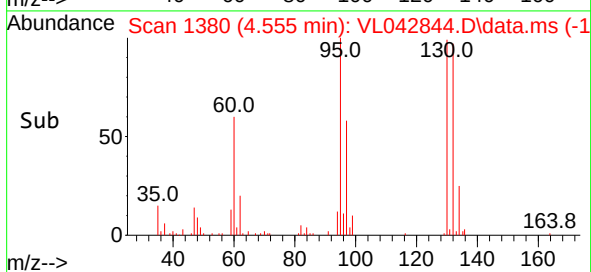
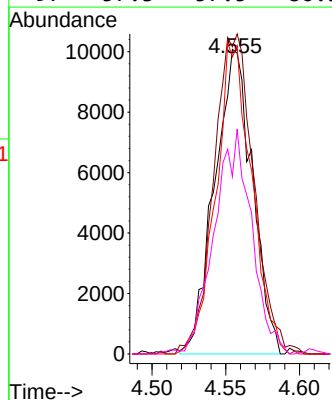
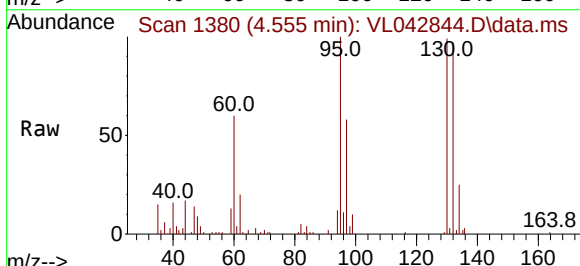
Ion Ratio Lower Upper

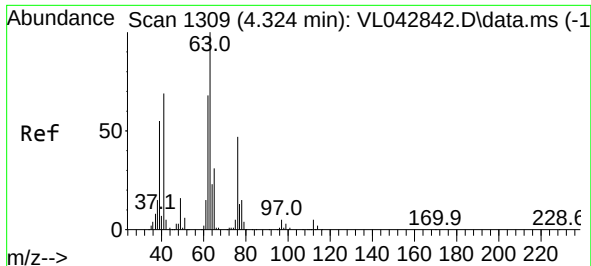
130 100

95 97.9 87.6 131.4

132 96.6 73.8 110.8

97 57.3 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.469 ppbv

RT: 4.325 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

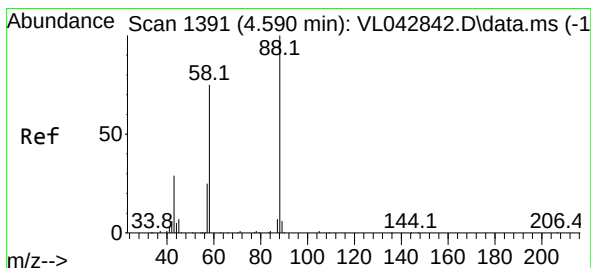
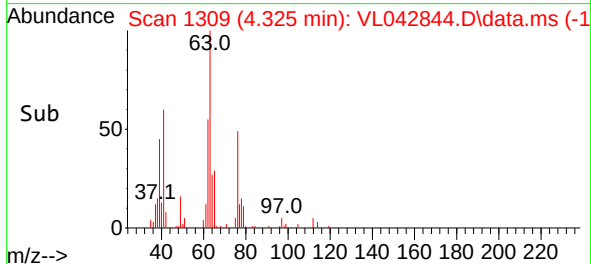
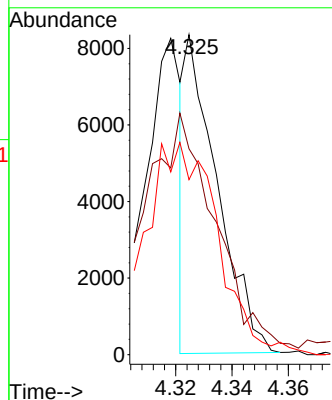
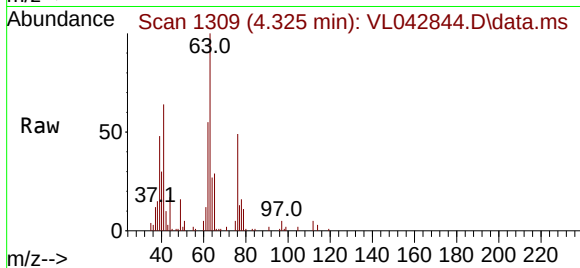
Tgt Ion: 63 Resp: 6572

Ion Ratio Lower Upper

63 100

41 61.3 55.0 82.4

62 51.1 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.599 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.013 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion: 88 Resp: 3925

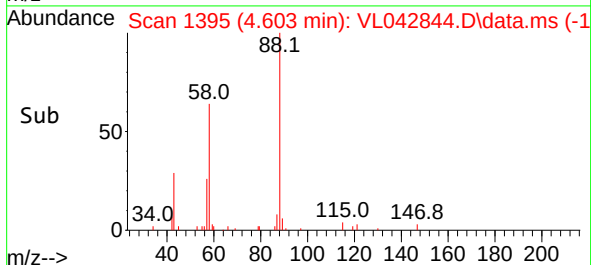
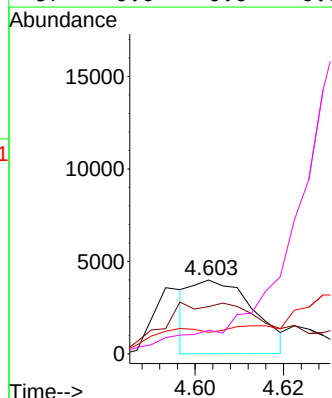
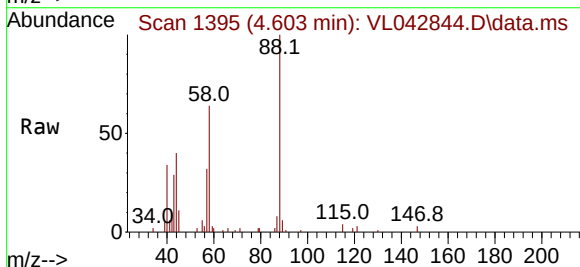
Ion Ratio Lower Upper

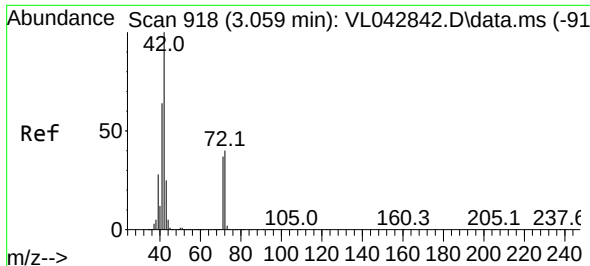
88 100

58 0.0 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

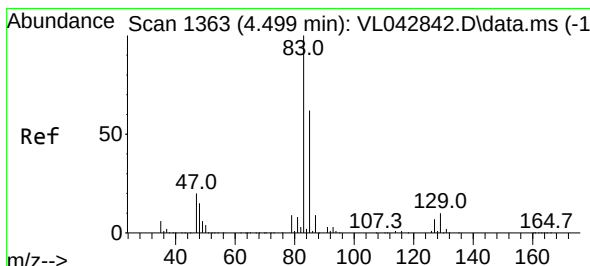
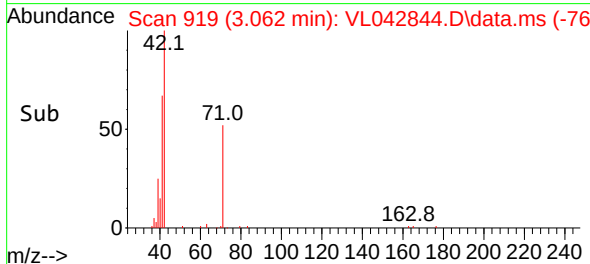
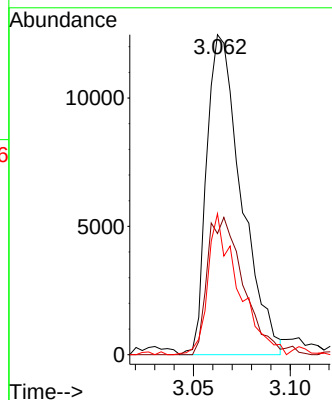
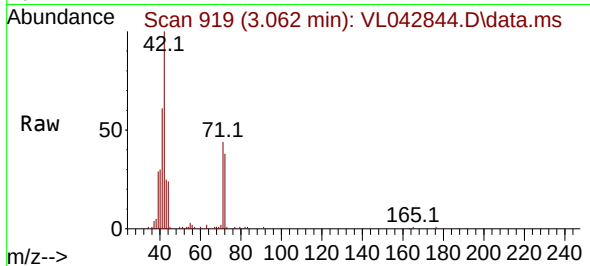




#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

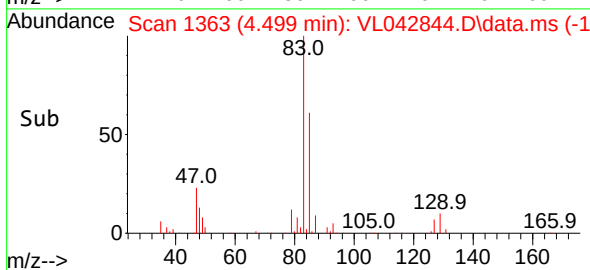
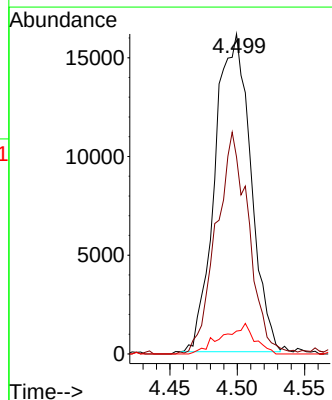
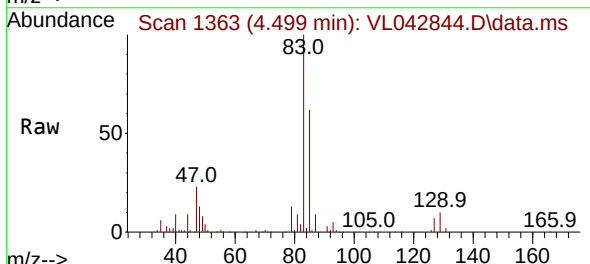
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

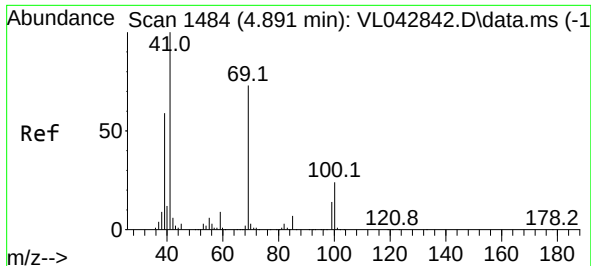
Tgt Ion: 42 Resp: 15552
Ion Ratio Lower Upper
42 100
72 45.4 32.6 48.8
71 40.1 30.0 45.0



#42
Bromodichloromethane
Concen: 0.995 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 83 Resp: 29683
Ion Ratio Lower Upper
83 100
85 61.3 49.8 74.8
127 7.2 5.8 8.6





#43

Methyl Methacrylate

Concen: 0.349 ppbv

RT: 4.898 min Scan# 1486

Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

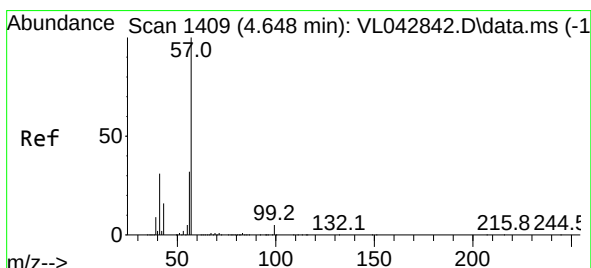
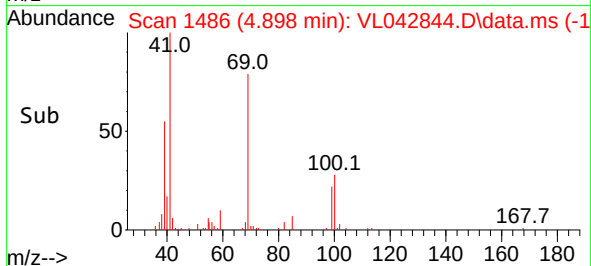
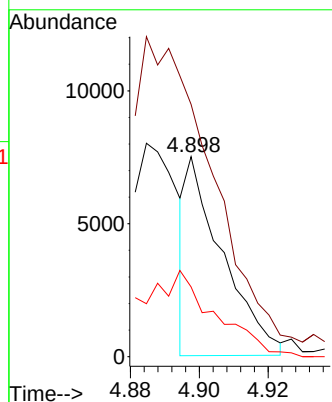
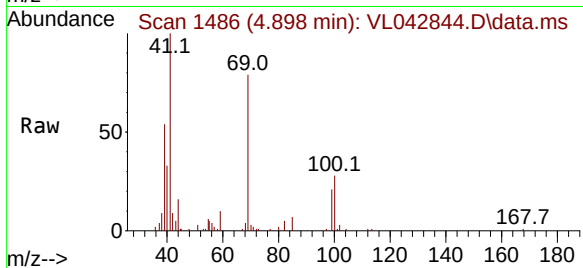
Tgt Ion: 69 Resp: 5494

Ion Ratio Lower Upper

69 100

41 0.0 114.6 172.0#

100 102.7 30.2 45.4#



#44

2,2,4-Trimethylpentane

Concen: 1.009 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

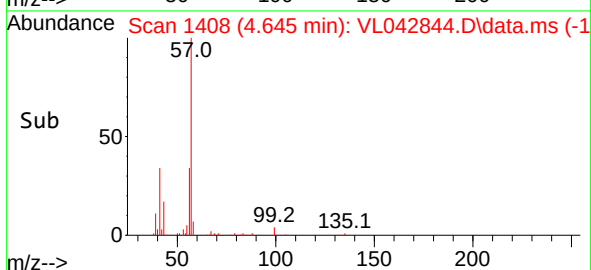
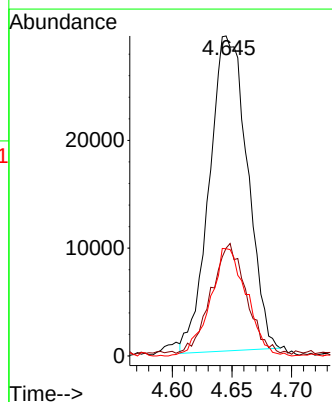
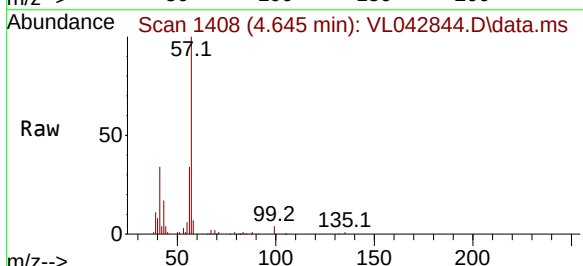
Tgt Ion: 57 Resp: 64930

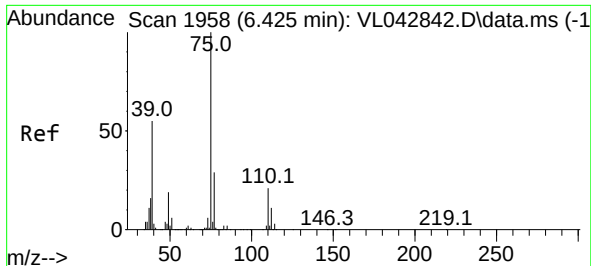
Ion Ratio Lower Upper

57 100

41 34.6 24.8 37.2

56 33.2 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 0.434 ppbv

RT: 6.429 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

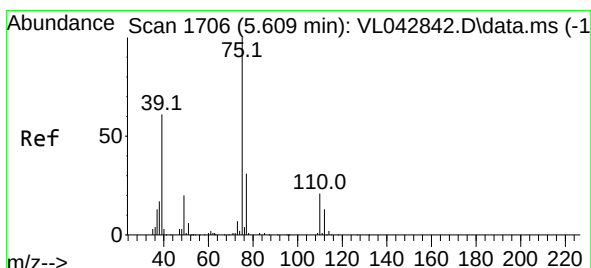
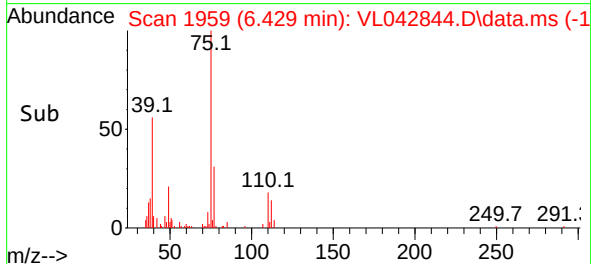
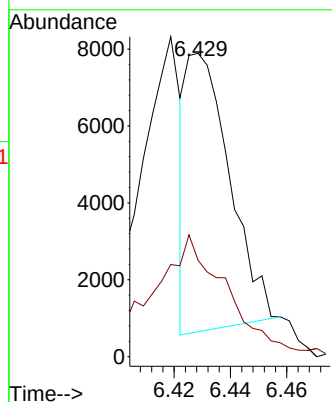
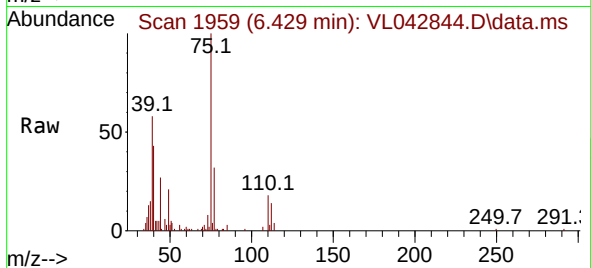
VSTDIC001

Tgt Ion: 75 Resp: 7736

Ion Ratio Lower Upper

75 100

77 31.8 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 0.999 ppbv

RT: 5.610 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

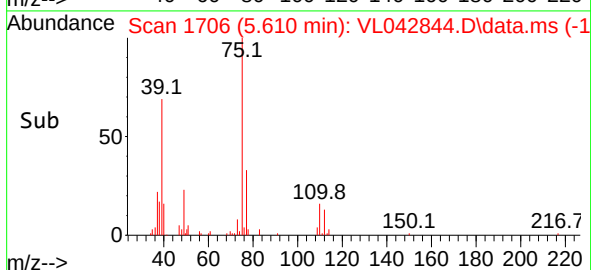
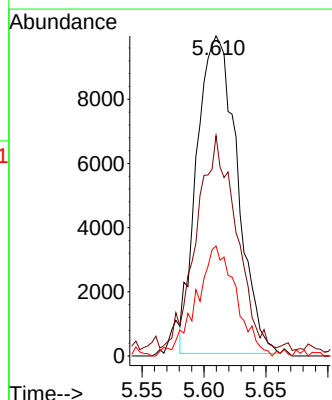
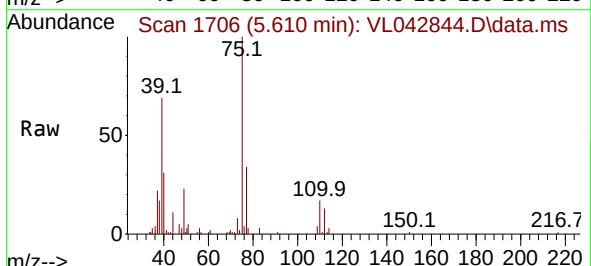
Tgt Ion: 75 Resp: 22372

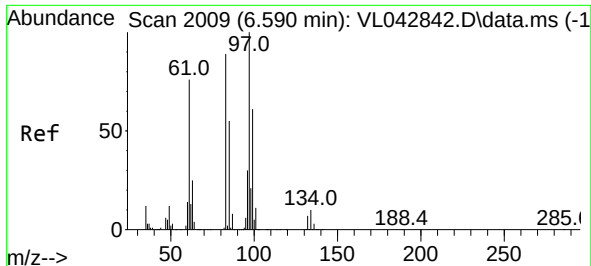
Ion Ratio Lower Upper

75 100

39 66.4 48.9 73.3

77 33.8 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 1.032 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 15295

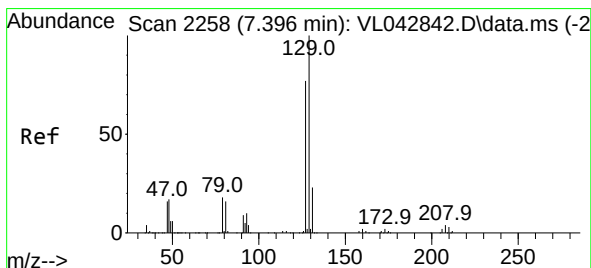
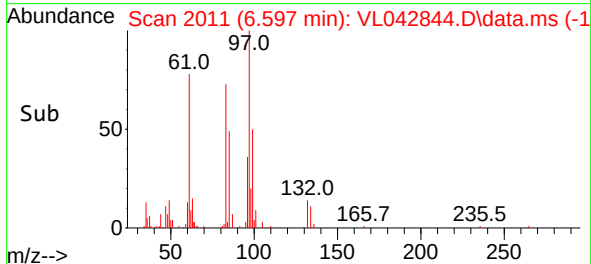
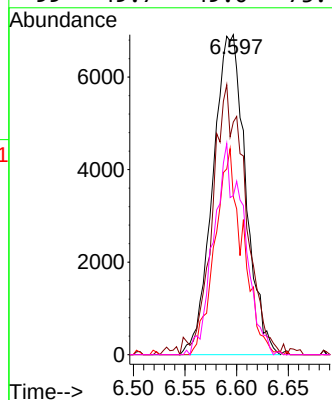
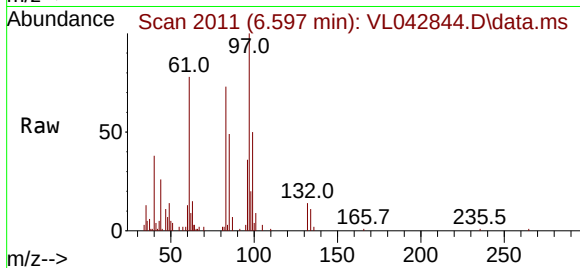
Ion Ratio Lower Upper

97 100

83 72.7 71.0 106.4

85 49.4 43.6 65.4

99 49.7 49.0 73.4



#48

Dibromochloromethane

Concen: 1.009 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VL042844.D

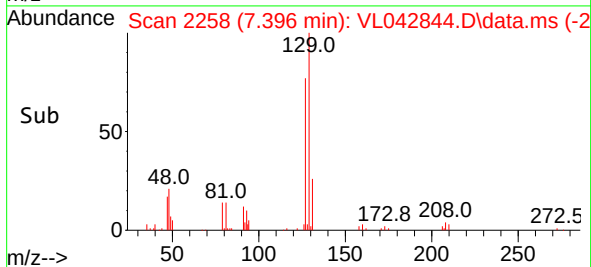
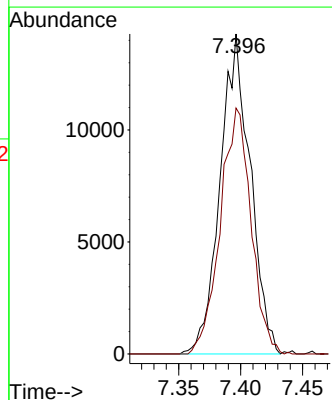
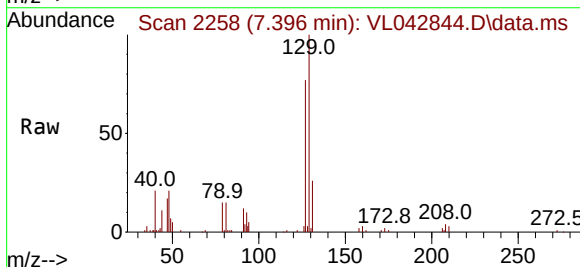
Acq: 13 Aug 2025 09:41

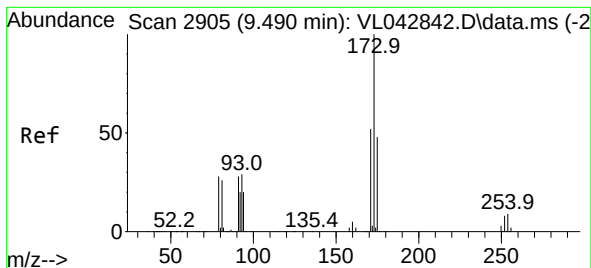
Tgt Ion: 129 Resp: 24214

Ion Ratio Lower Upper

129 100

127 78.2 39.4 118.2





#49

Bromoform

Concen: 1.040 ppbv

RT: 9.490 min Scan# 2905

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

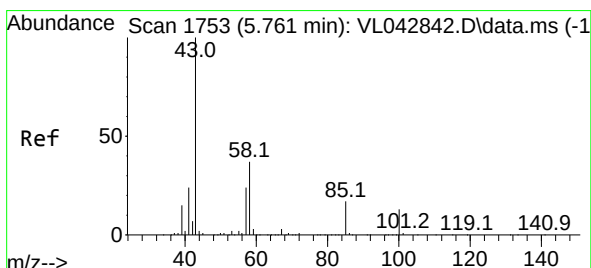
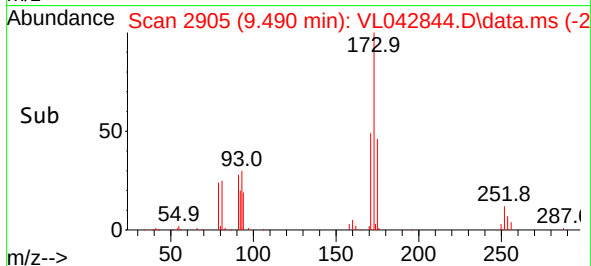
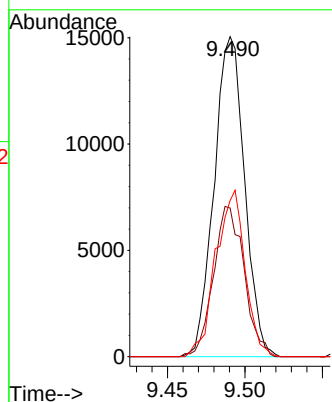
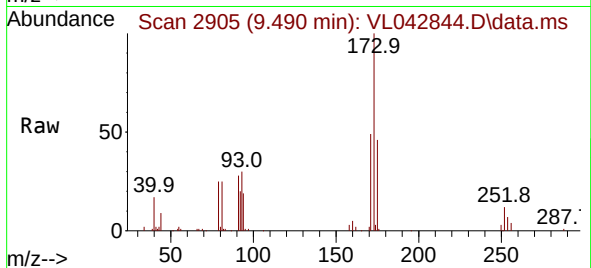
Tgt Ion:173 Resp: 20579

Ion Ratio Lower Upper

173 100

175 47.3 39.2 58.8

171 50.3 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 1.001 ppbv

RT: 5.768 min Scan# 1755

Delta R.T. 0.007 min

Lab File: VL042844.D

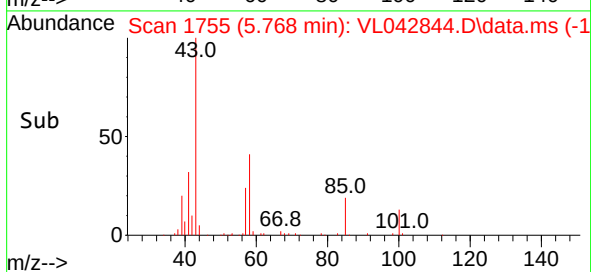
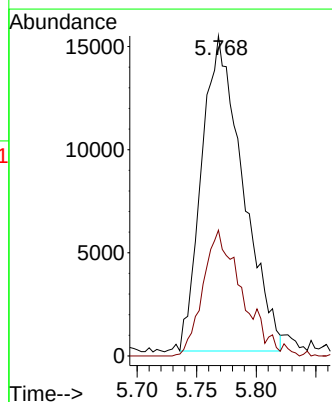
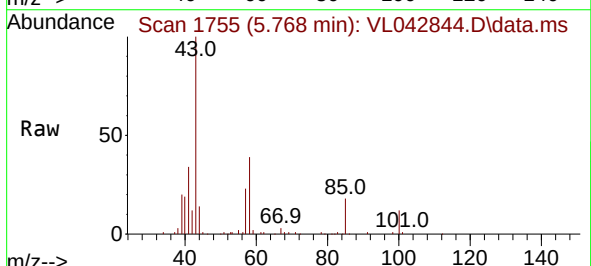
Acq: 13 Aug 2025 09:41

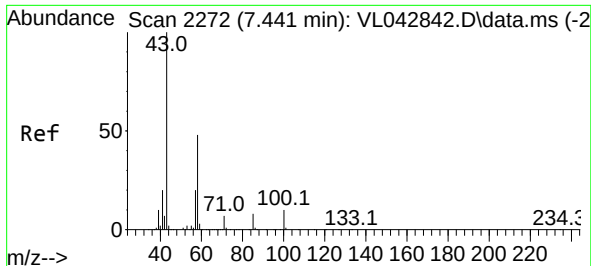
Tgt Ion: 43 Resp: 36710

Ion Ratio Lower Upper

43 100

58 38.3 29.8 44.8

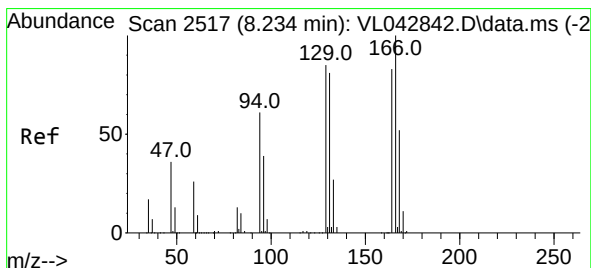
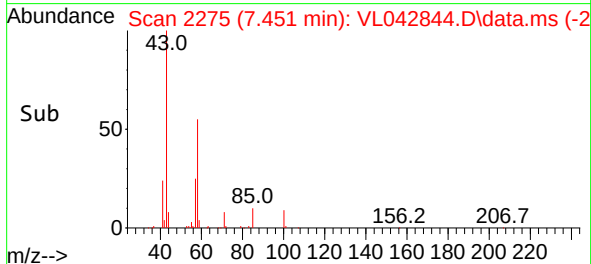
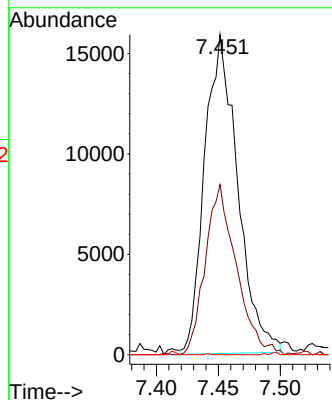
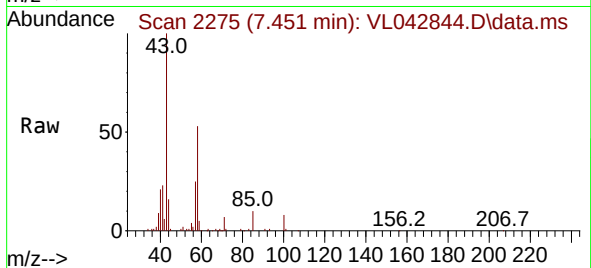




#51
2-Hexanone
Concen: 1.026 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

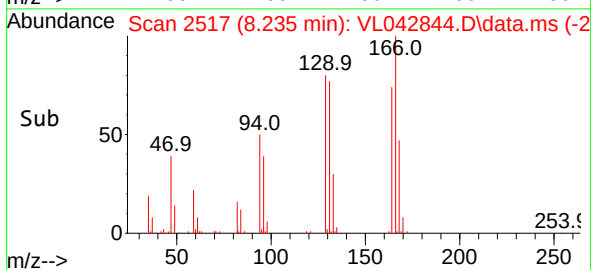
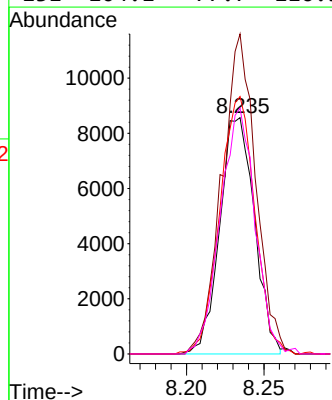
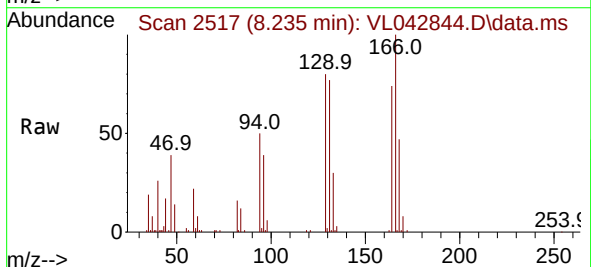
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

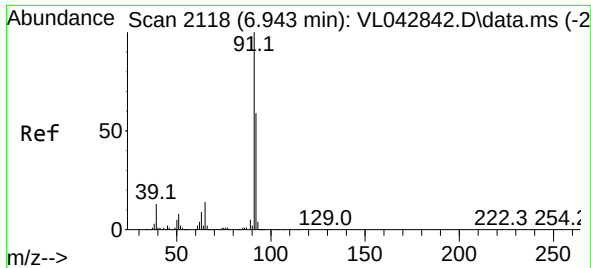
Tgt Ion: 43 Resp: 29487
Ion Ratio Lower Upper
43 100
58 50.6 41.0 61.6
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.960 ppbv
RT: 8.235 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 164 Resp: 13322
Ion Ratio Lower Upper
164 100
166 135.4 96.5 144.7
129 110.5 81.8 122.6
131 104.1 77.7 116.5

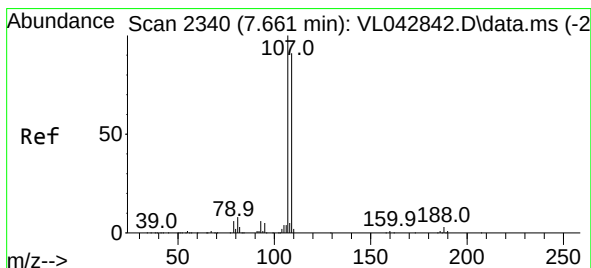
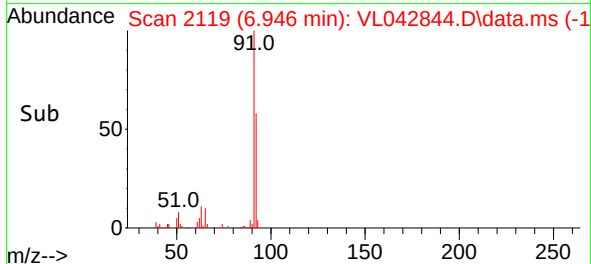
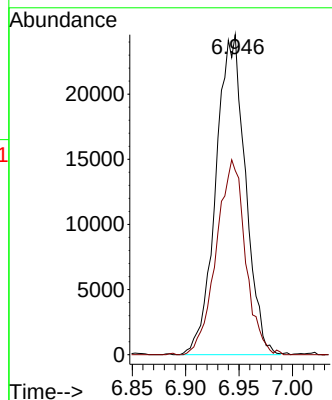
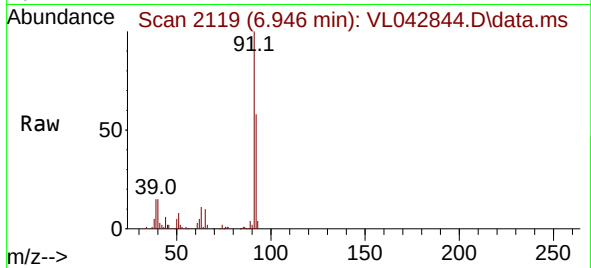




#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

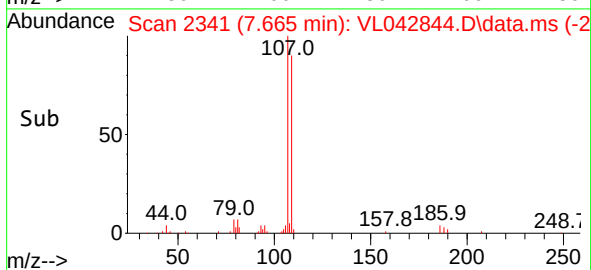
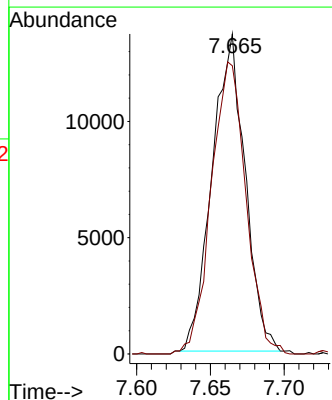
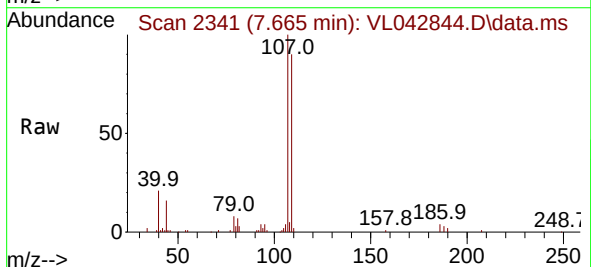
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

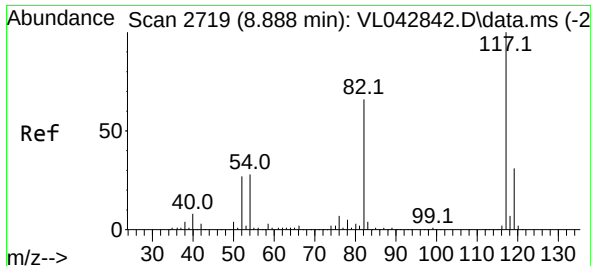
Tgt Ion: 91 Resp: 47256
Ion Ratio Lower Upper
91 100
92 60.1 47.8 71.6



#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 107 Resp: 21280
Ion Ratio Lower Upper
107 100
109 89.9 72.5 108.7

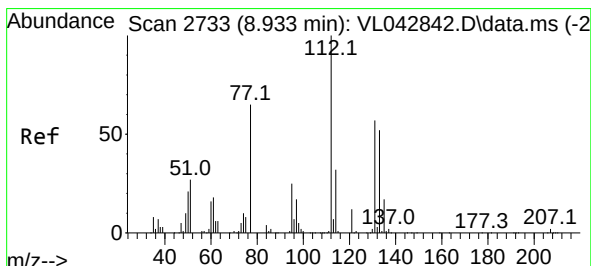
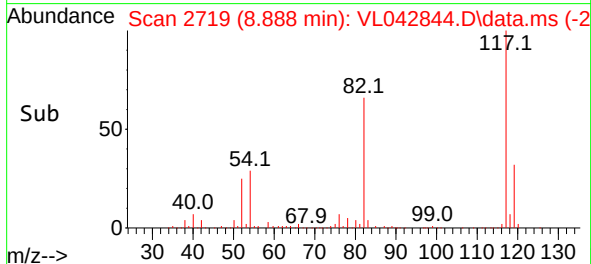
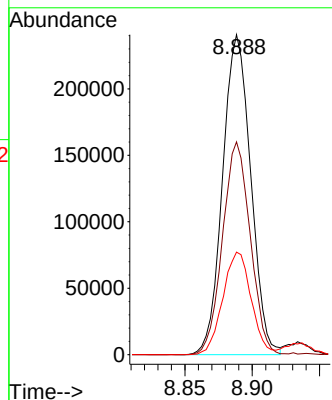
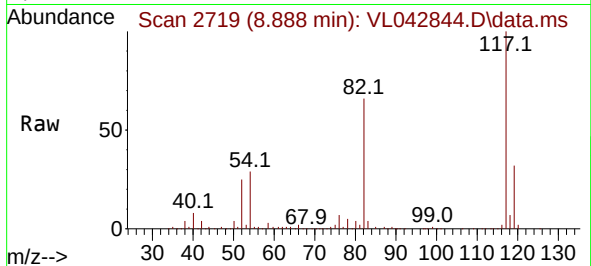




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

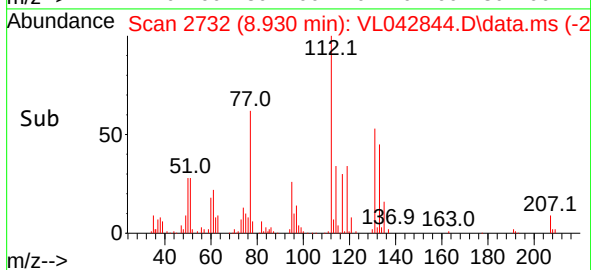
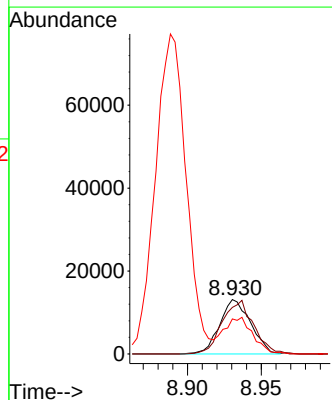
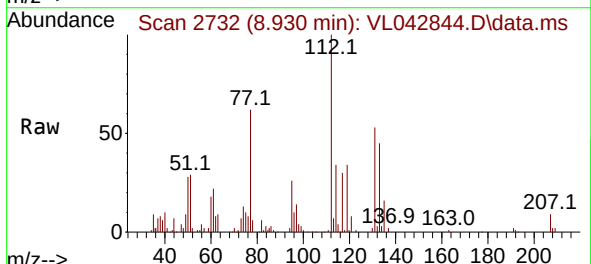
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

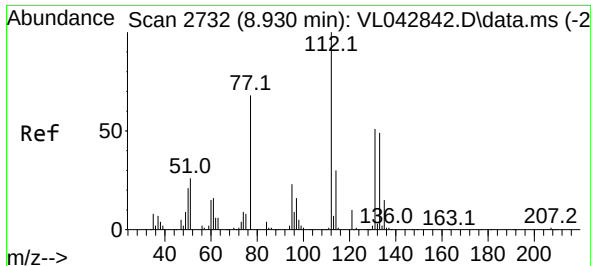
Tgt Ion:117 Resp: 349577
Ion Ratio Lower Upper
117 100
82 65.9 54.6 81.8
119 32.9 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 1.061 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:131 Resp: 19176
Ion Ratio Lower Upper
131 100
133 99.8 77.4 116.0
119 59.0 51.2 76.8

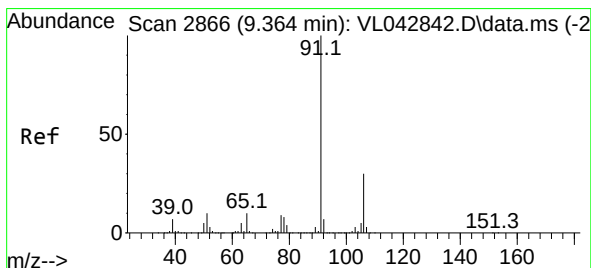
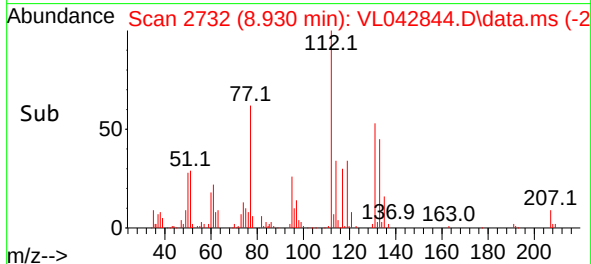
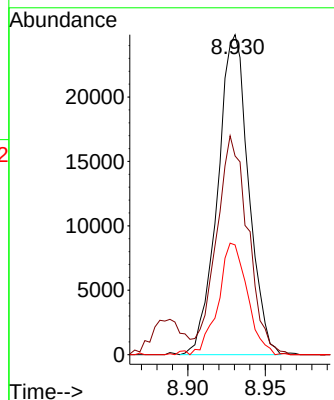
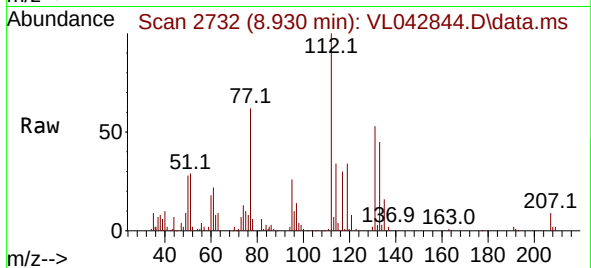




#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

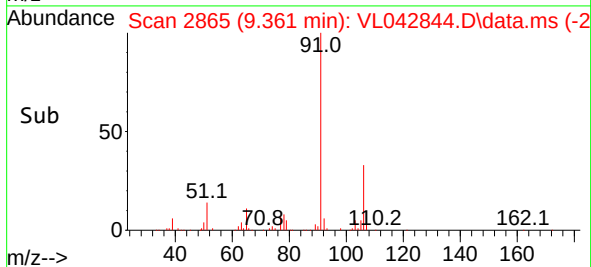
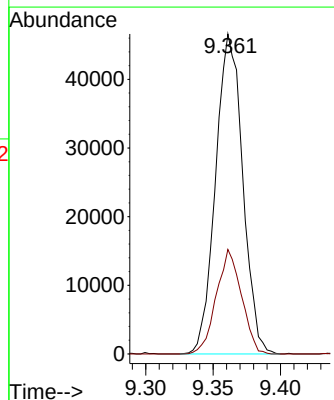
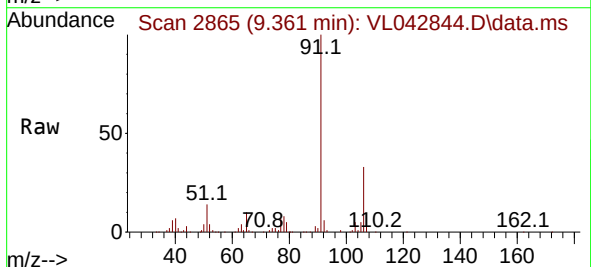
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

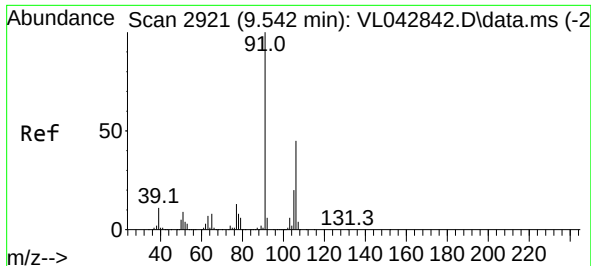
Tgt Ion:112 Resp: 34617
Ion Ratio Lower Upper
112 100
77 61.0 55.5 83.3
114 34.0 27.2 33.2#



#58
Ethyl Benzene
Concen: 1.057 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 65223
Ion Ratio Lower Upper
91 100
106 32.7 23.9 35.9





#59

m/p-Xylene

Concen: 1.108 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

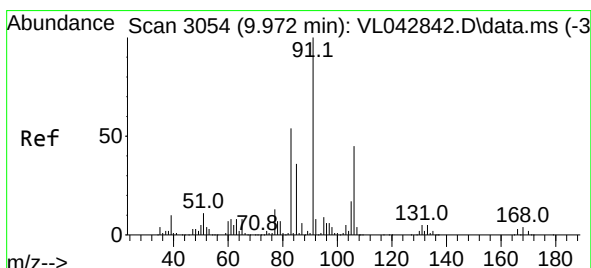
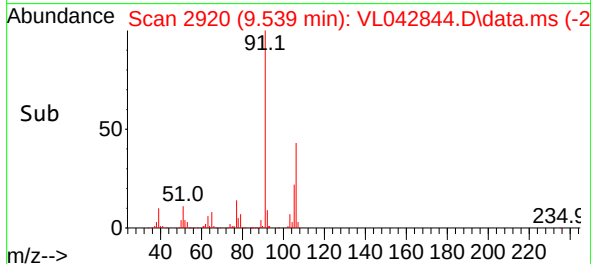
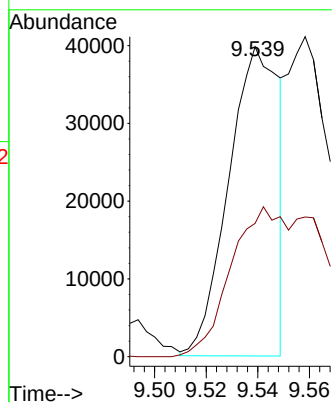
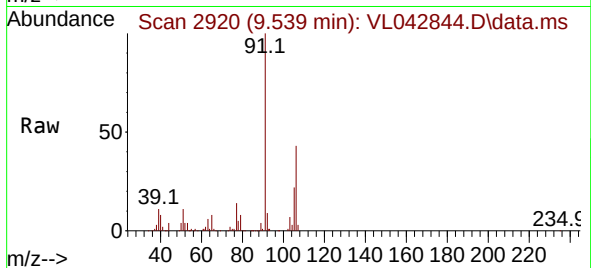
VSTDIC001

Tgt Ion: 91 Resp: 53658

Ion Ratio Lower Upper

91 100

106 88.3 0.0 0.0#



#60

o-Xylene

Concen: 1.058 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042844.D

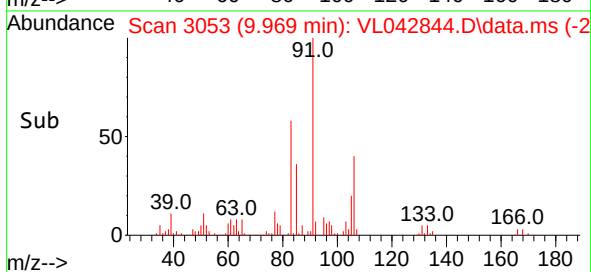
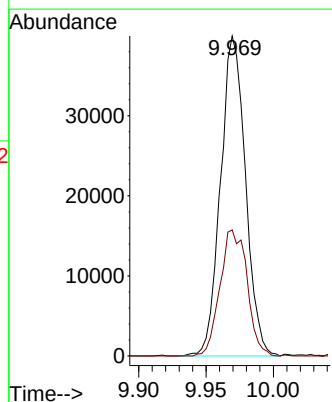
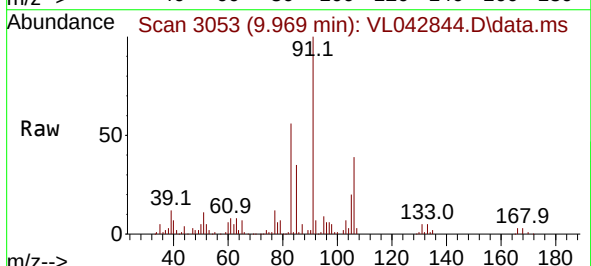
Acq: 13 Aug 2025 09:41

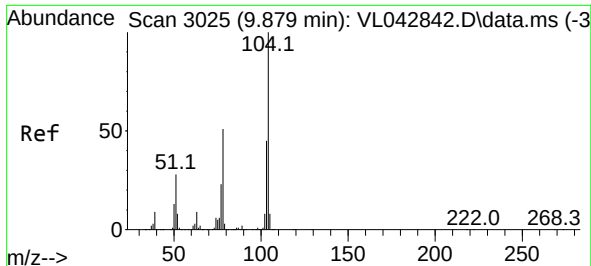
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4

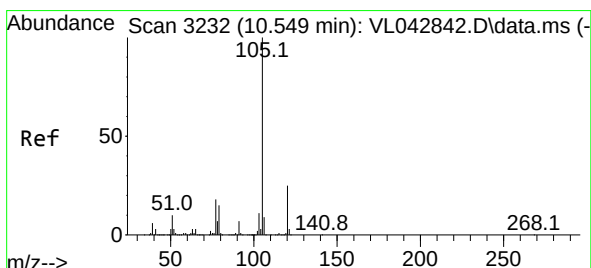
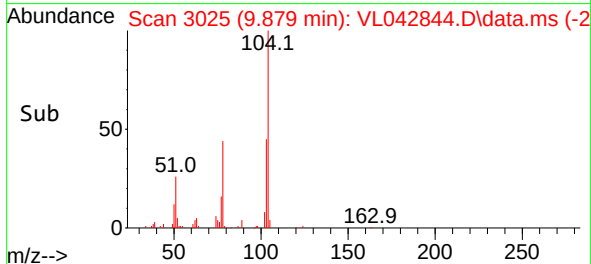
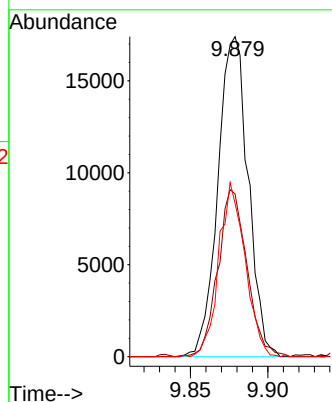
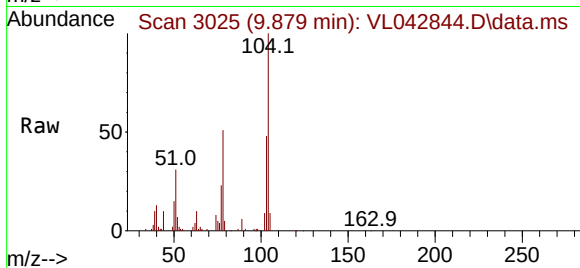




#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

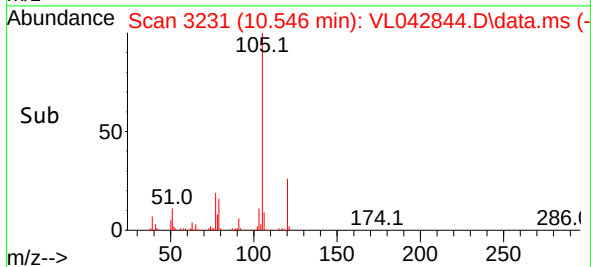
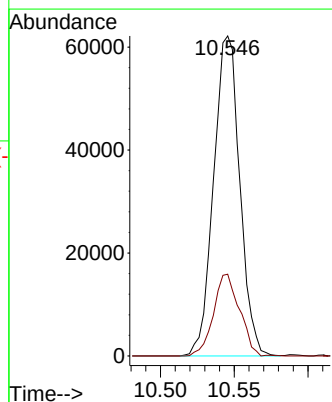
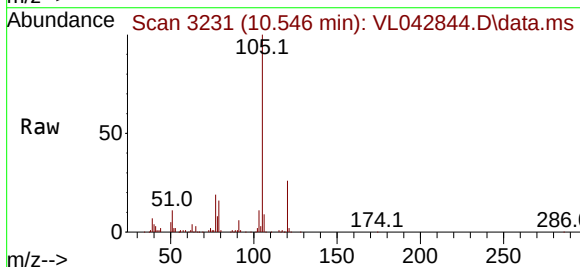
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

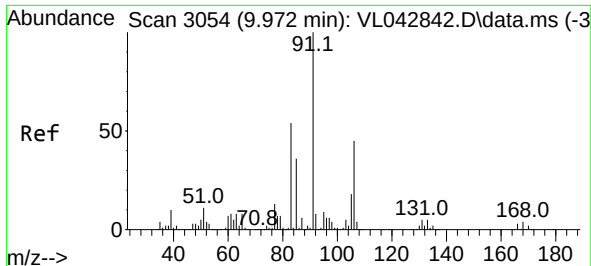
Tgt Ion:104 Resp: 23660
Ion Ratio Lower Upper
104 100
78 50.4 40.6 61.0
103 47.3 37.7 56.5



#62
Isopropylbenzene
Concen: 1.079 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 76708
Ion Ratio Lower Upper
105 100
120 25.4 20.6 30.8

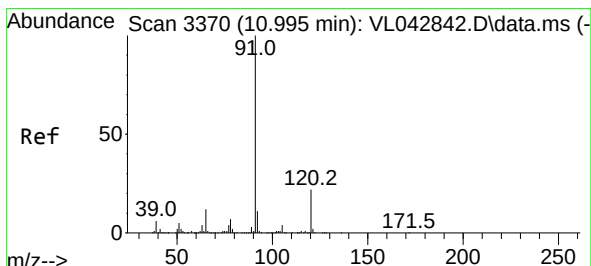
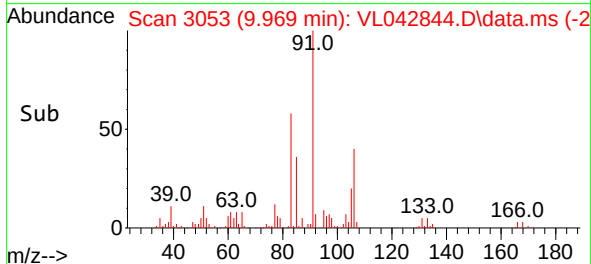
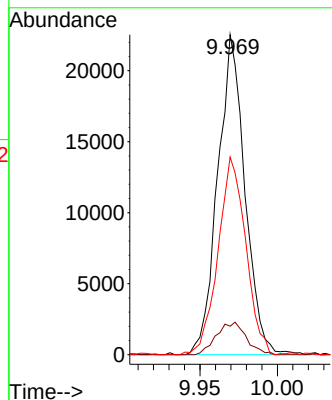
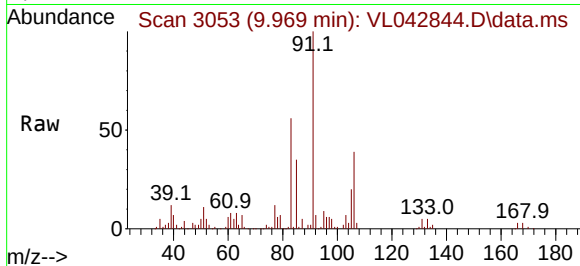




#63
1,1,2,2-Tetrachloroethane
Concen: 1.032 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

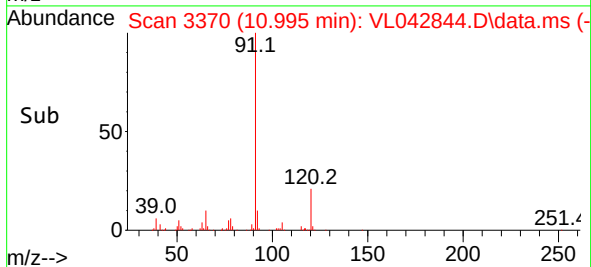
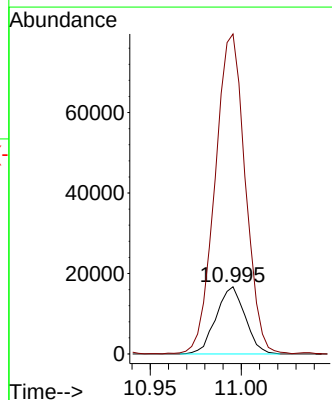
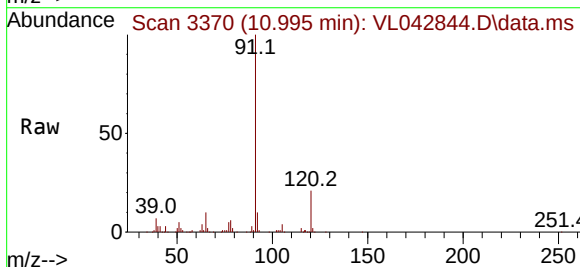
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

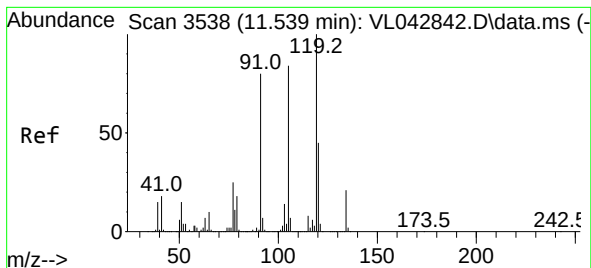
Tgt Ion: 83 Resp: 27410
Ion Ratio Lower Upper
83 100
131 11.2 4.8 14.3
85 63.5 32.3 96.8



#64
n-propylbenzene
Concen: 1.018 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:120 Resp: 18462
Ion Ratio Lower Upper
120 100
91 496.0 375.8 563.6

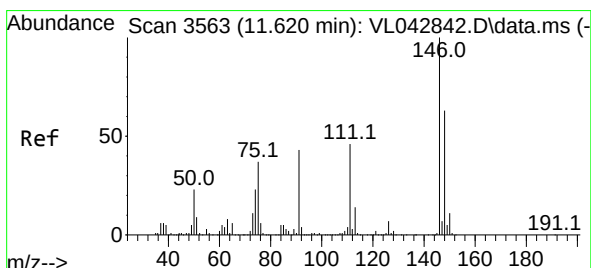
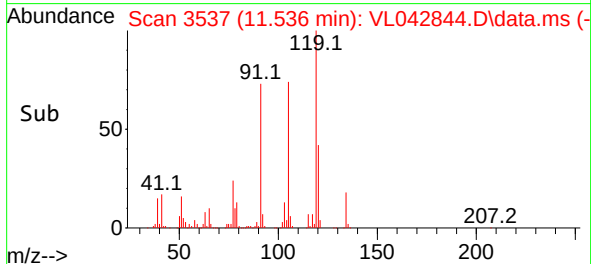
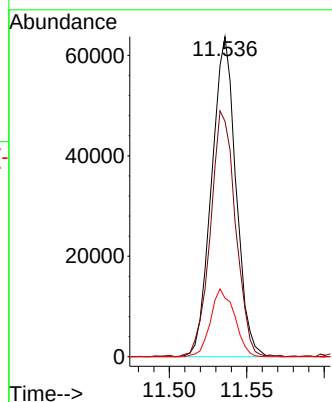
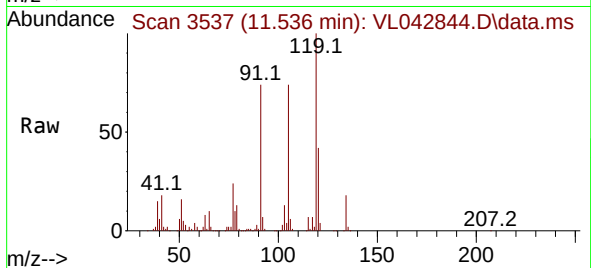




#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

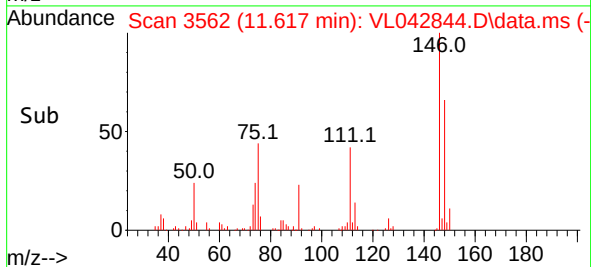
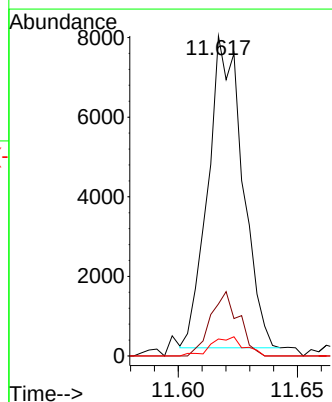
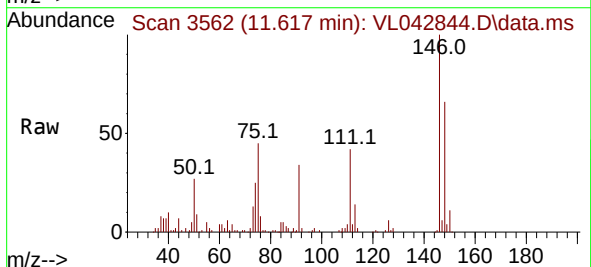
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

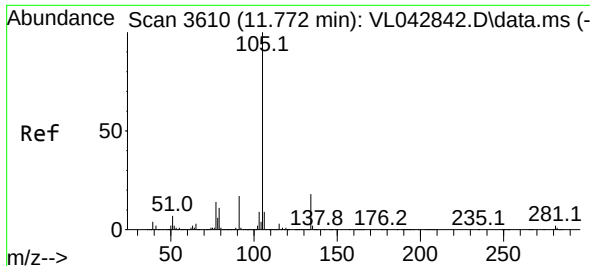
Tgt Ion:119 Resp: 69617
Ion Ratio Lower Upper
119 100
91 79.3 63.9 95.9
134 20.9 17.0 25.4



#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 7900
Ion Ratio Lower Upper
91 100
126 16.9 14.2 21.4
128 5.8 5.0 7.6

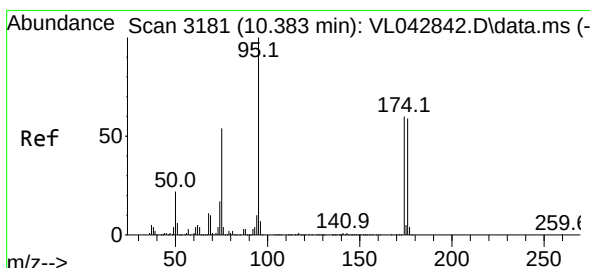
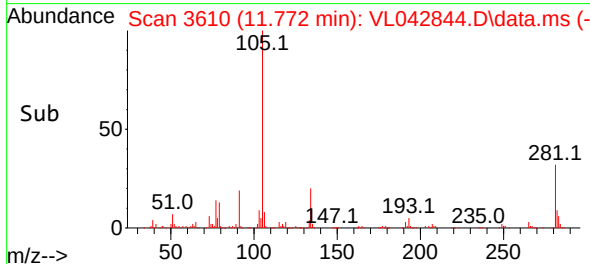
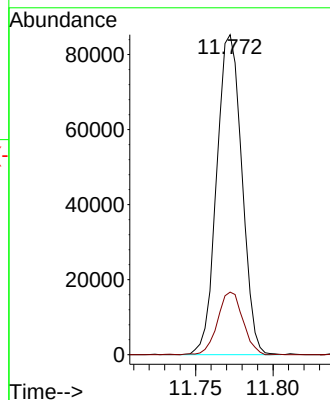
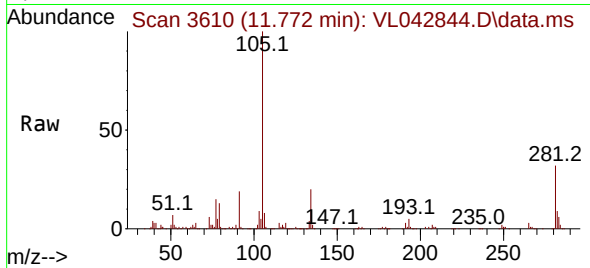




#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

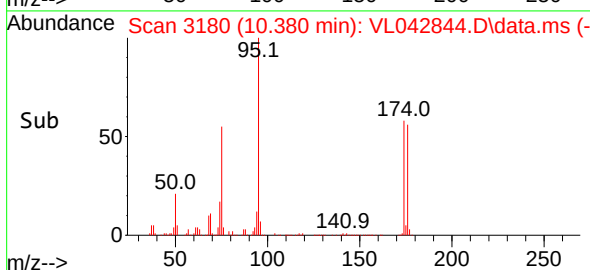
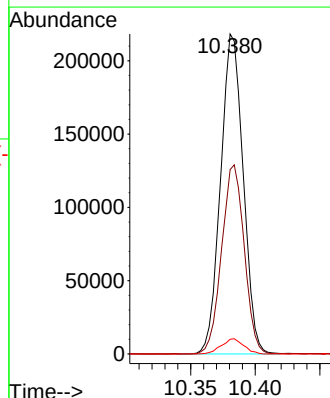
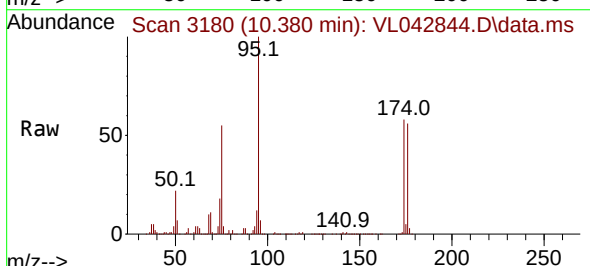
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

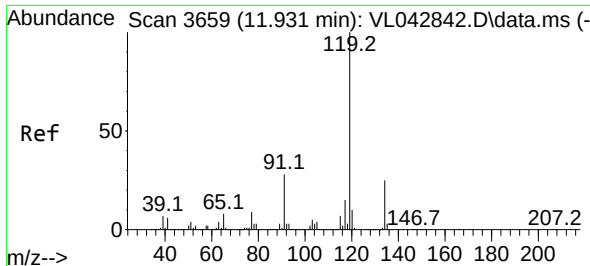
Tgt Ion:105 Resp: 96288
 Ion Ratio Lower Upper
 105 100
 134 19.7 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.135 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 95 Resp: 265708
 Ion Ratio Lower Upper
 95 100
 174 59.1 48.4 72.6
 175 4.7 3.8 5.8

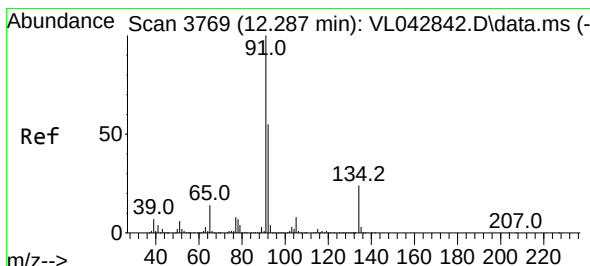
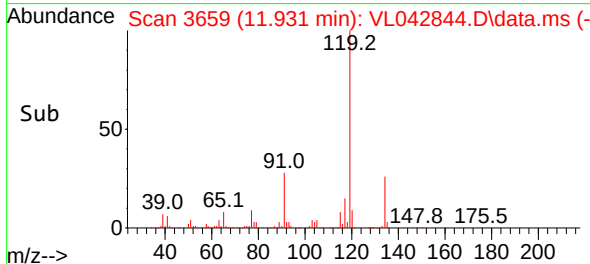
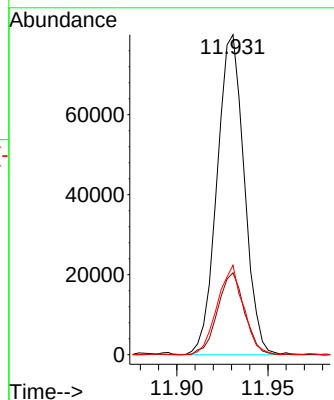
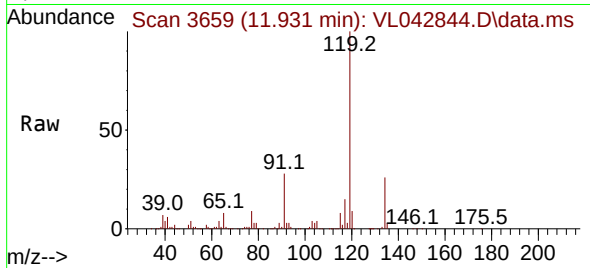




#69
 p-Isopropyltoluene
 Concen: 1.098 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

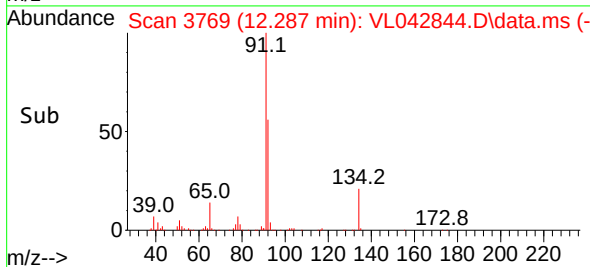
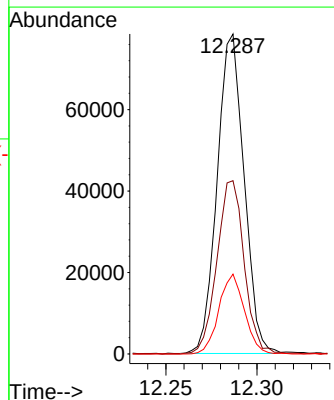
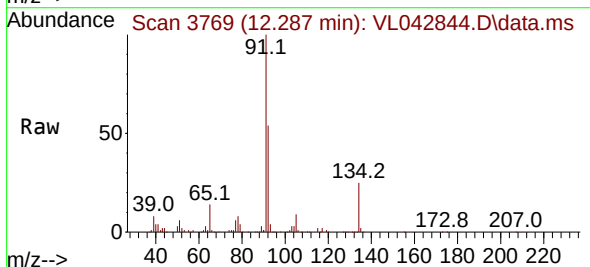
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

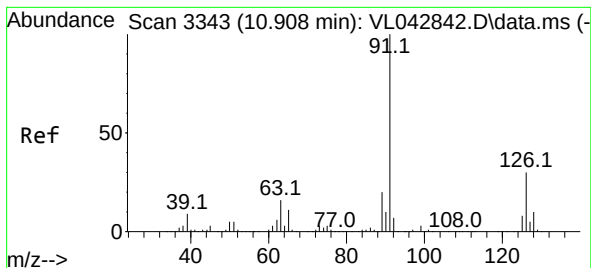
Tgt Ion: 119 Resp: 82934
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 30.8
 91 27.2 22.6 34.0



#70
 n-Butylbenzene
 Concen: 1.075 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 80511
 Ion Ratio Lower Upper
 91 100
 92 55.2 44.6 66.8
 134 23.7 19.0 28.4





#71

2-Chlorotoluene

Concen: 1.089 ppbv

RT: 10.908 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

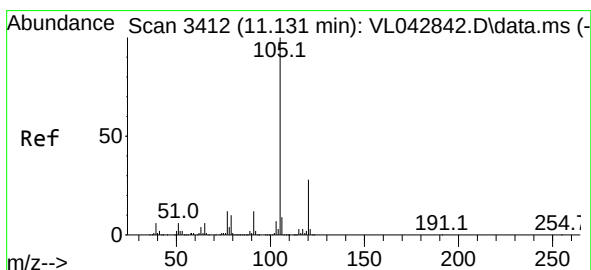
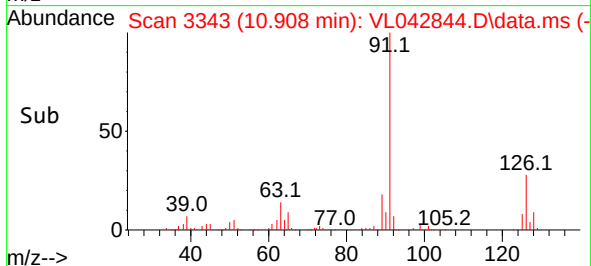
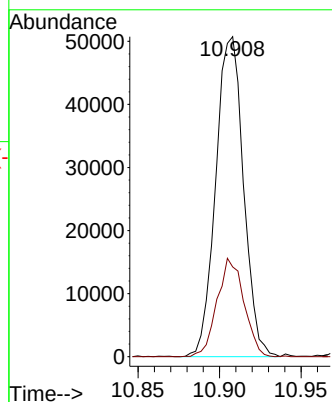
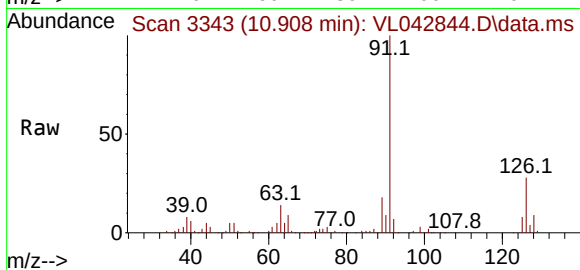
VSTDIC001

Tgt Ion: 91 Resp: 60086

Ion Ratio Lower Upper

91 100

126 29.7 12.0 47.8



#72

4-Ethyltoluene

Concen: 1.071 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion: 105 Resp: 63147

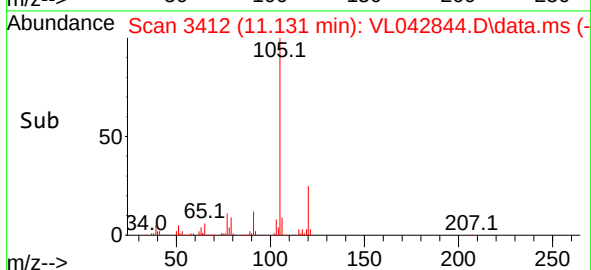
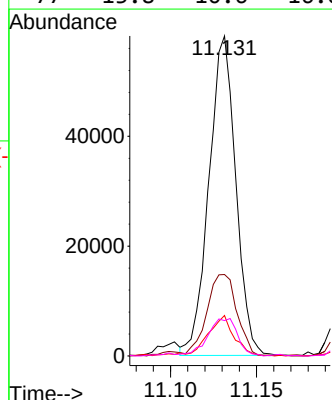
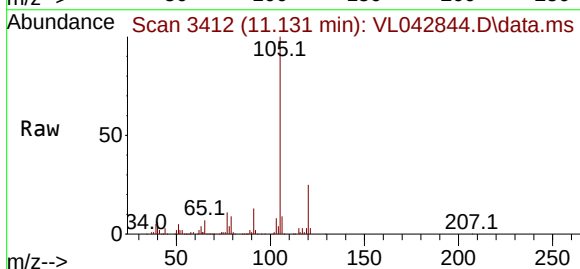
Ion Ratio Lower Upper

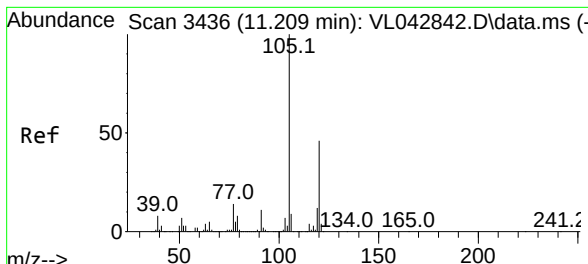
105 100

120 29.9 23.4 35.2

91 13.0 9.8 14.6

77 13.8 10.6 16.0

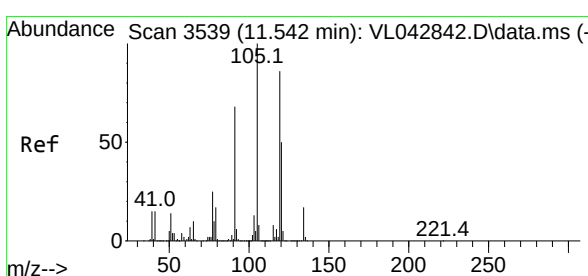
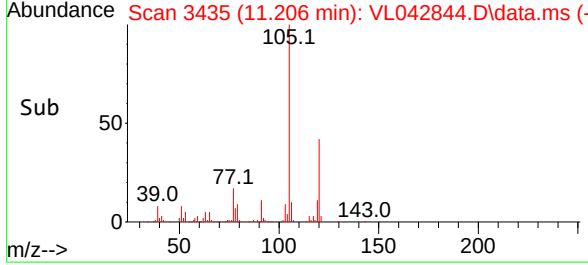
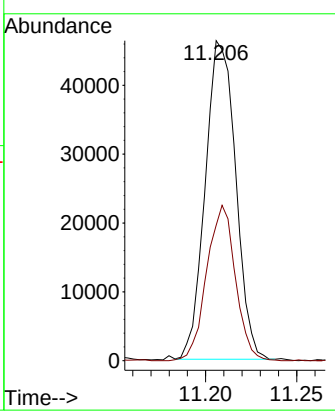
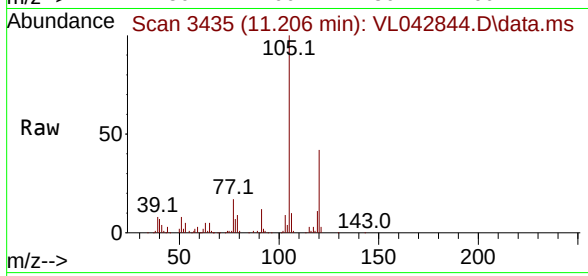




#73
 1,3,5-Trimethylbenzene
 Concen: 1.070 ppbv
 RT: 11.206 min Scan# 3436
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

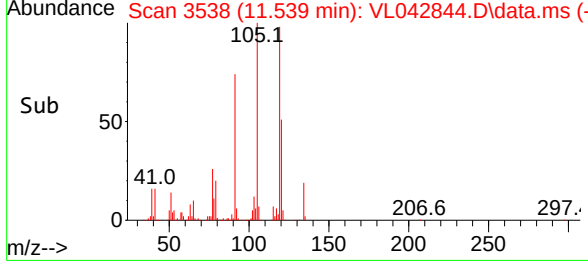
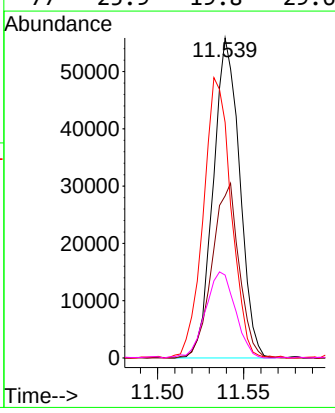
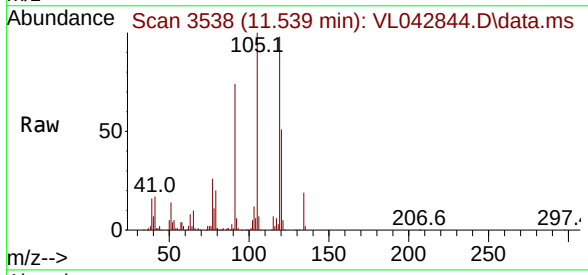
Instrument : MSVOA_1
 ClientSampleId : VSTDIC001

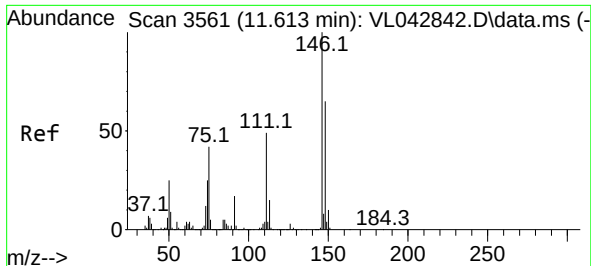
Tgt Ion:	105	Resp:	53676
Ion Ratio	Lower	Upper	
105	100		
120	42.3	36.6	54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 1.083 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	105	Resp:	59633
Ion Ratio	Lower	Upper	
105	100		
120	50.7	39.8	59.6
91	73.3	54.2	81.4
77	25.9	19.8	29.6

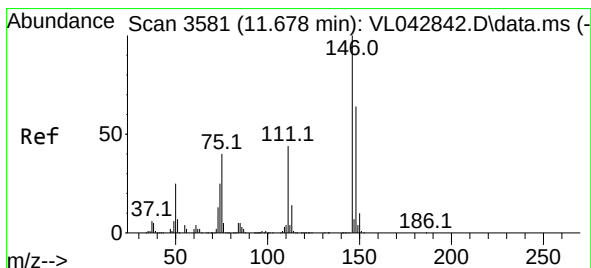
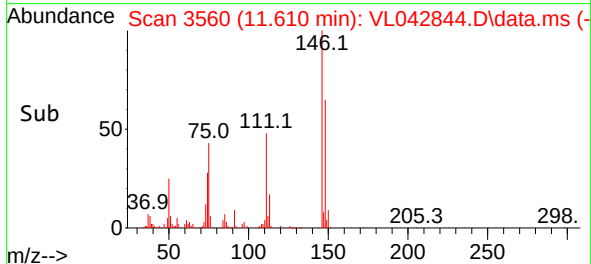
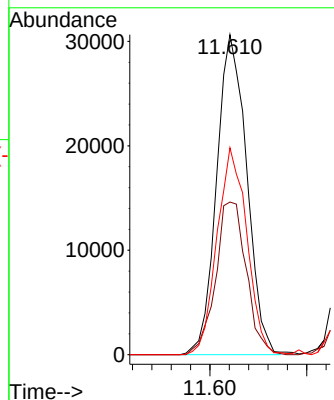
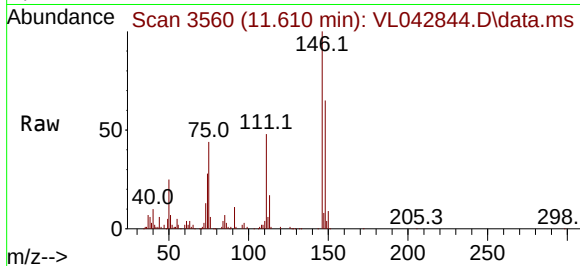




#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

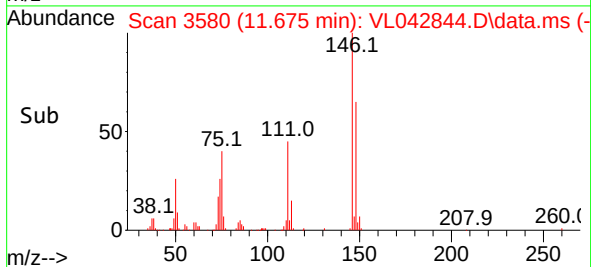
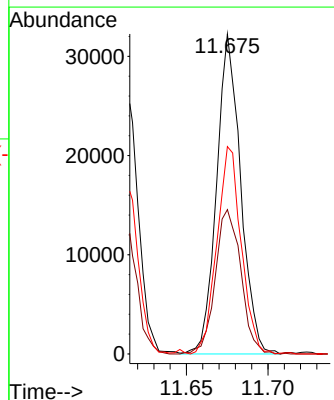
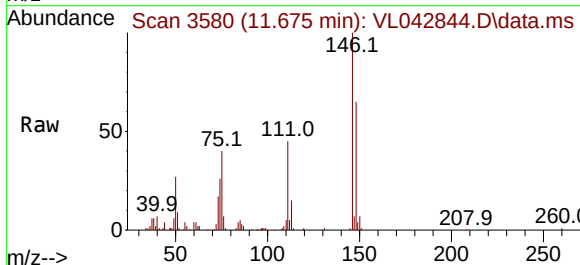
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

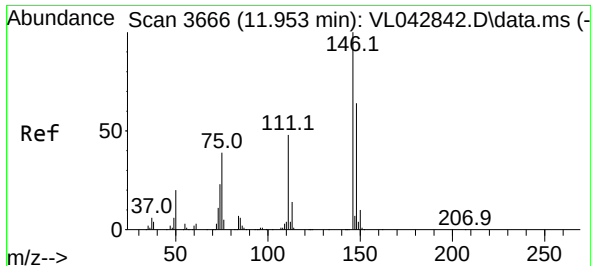
Tgt Ion:146 Resp: 33061
Ion Ratio Lower Upper
146 100
111 48.6 23.9 71.7
148 64.1 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 1.045 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 33064
Ion Ratio Lower Upper
146 100
111 48.1 22.7 68.1
148 66.0 31.8 95.3

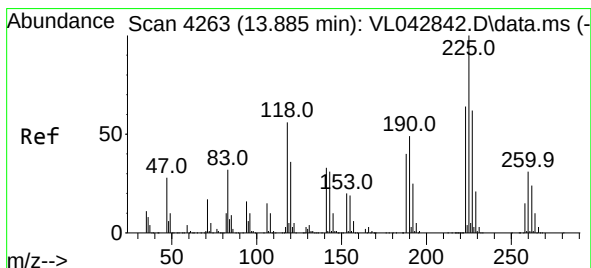
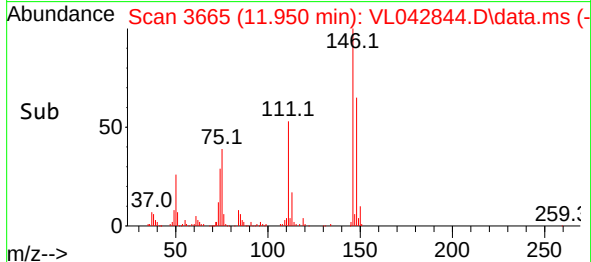
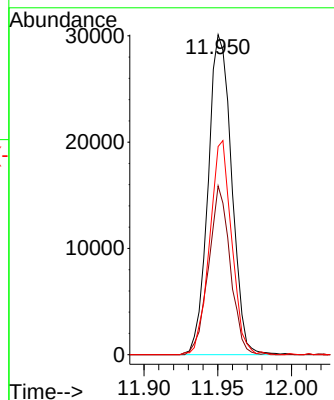
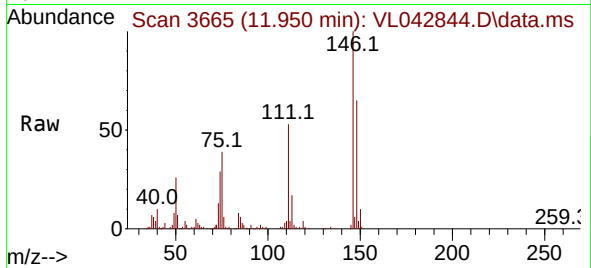




#77
 1,2-Dichlorobenzene
 Concen: 1.090 ppbv
 RT: 11.950 min Scan# 3665
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

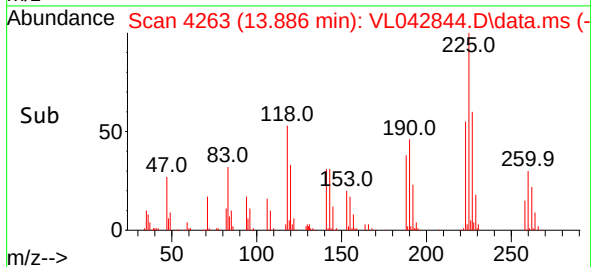
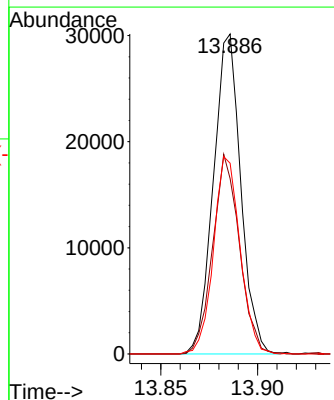
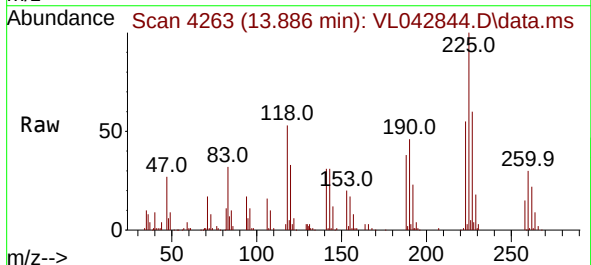
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

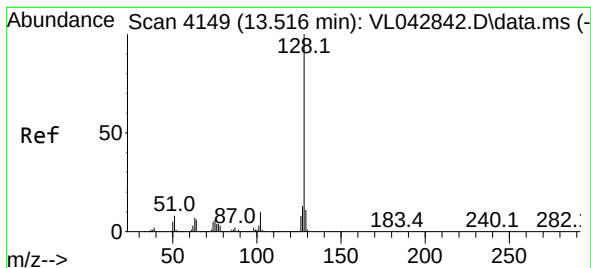
Tgt Ion:146 Resp: 33404
 Ion Ratio Lower Upper
 146 100
 111 48.4 24.6 74.0
 148 62.7 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.177 ppbv
 RT: 13.886 min Scan# 4263
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:225 Resp: 29555
 Ion Ratio Lower Upper
 225 100
 223 61.2 51.4 77.2
 227 60.0 51.9 77.9





#79

Naphthalene

Concen: 1.169 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

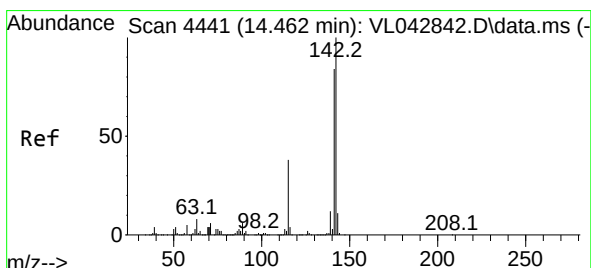
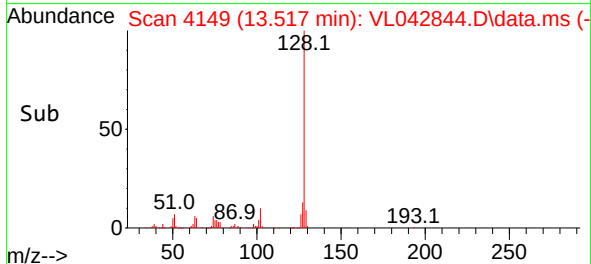
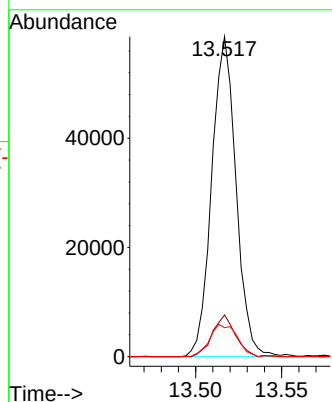
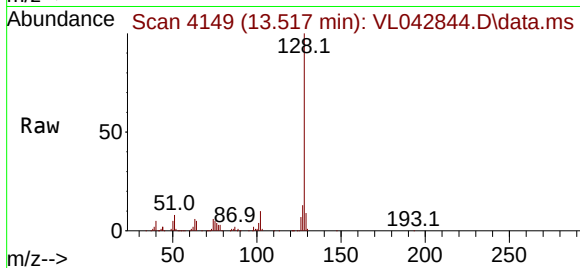
Tgt Ion:128 Resp: 57580

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 9.1 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 1.045 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

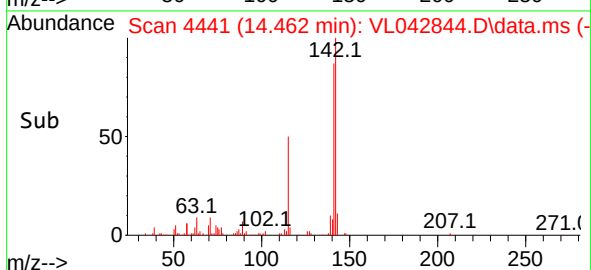
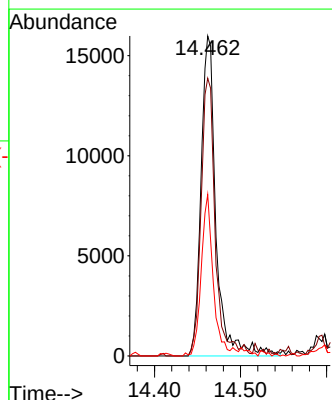
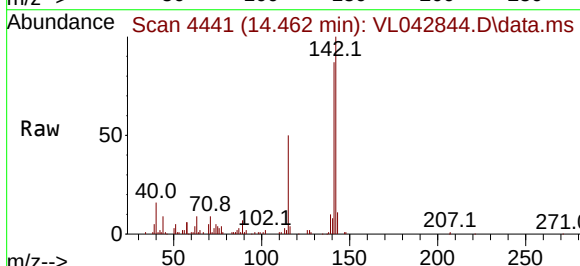
Tgt Ion:142 Resp: 19375

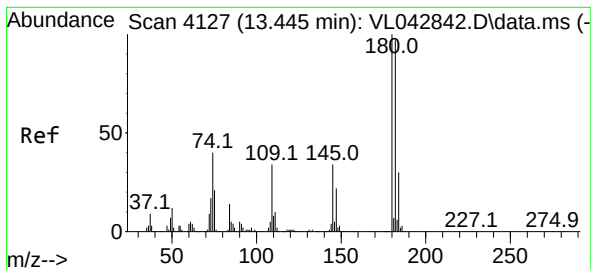
Ion Ratio Lower Upper

142 100

141 81.6 67.0 100.6

115 43.2 30.9 46.3

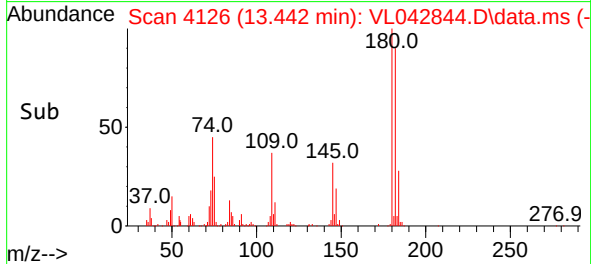
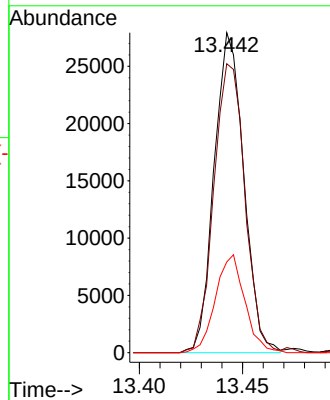
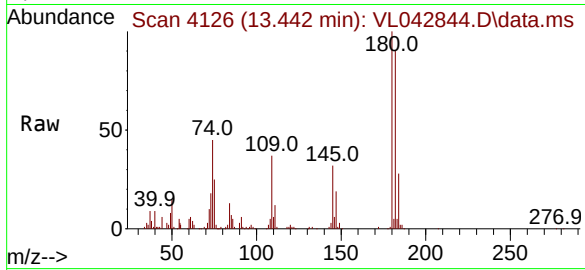




#81
 1,2,4-Trichlorobenzene
 Concen: 1.111 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.9	115.3
184	30.3	24.5	36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	262663	10.064	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	2065	0.318	ppbv #	1
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	7529	0.484	ppbv	89
44) 2,2,4-Trimethylpentane	4.651	57	16770	0.263	ppbv #	40
45) t-1,3-Dichloropropene	6.435	75	5507	0.312	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

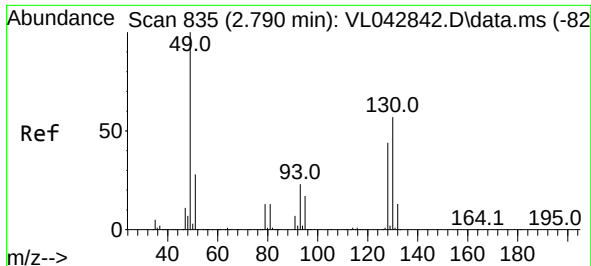
Quant Time: Aug 14 01:48:25 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	4895	0.221	ppbv	89
47) 1,1,2-Trichloroethane	6.597	97	3140	0.214	ppbv	90
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	11657	0.321	ppbv #	52
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.949	91	14358	0.318	ppbv #	41
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.542	91	27059	0.561	ppbv #	100
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

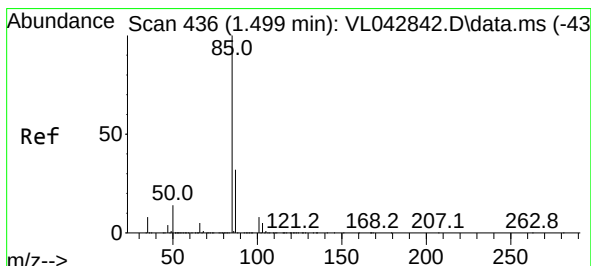
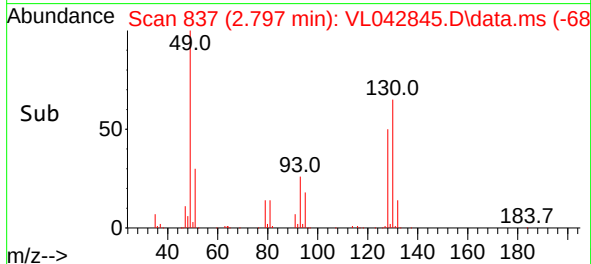
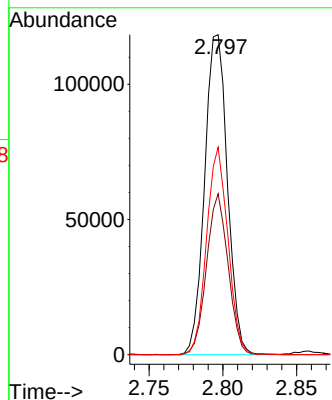
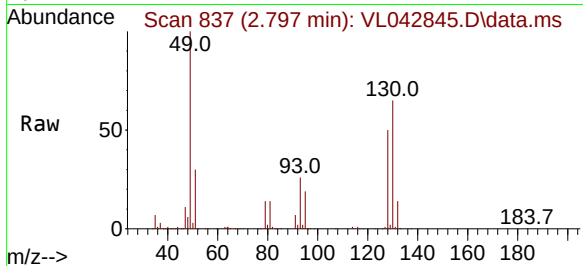
[illegible]



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

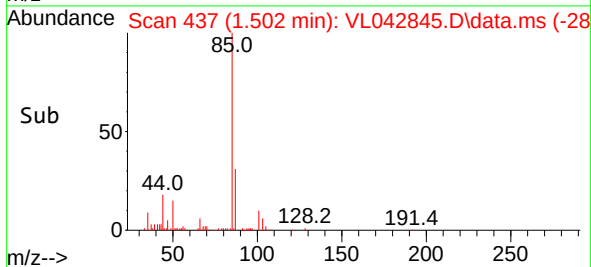
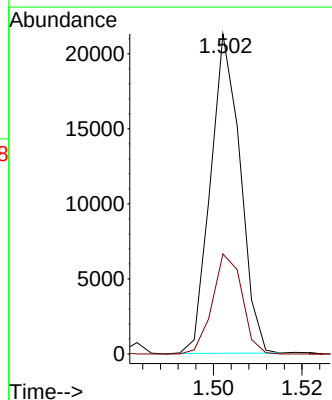
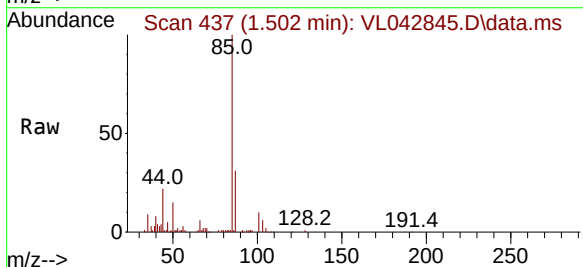
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

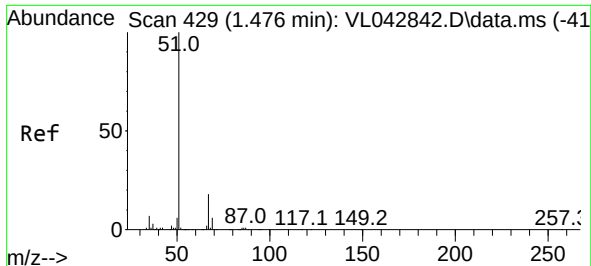
Tgt Ion: 49 Resp: 126879
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 60.9 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 9937
Ion Ratio Lower Upper
85 100
87 31.3 25.3 37.9

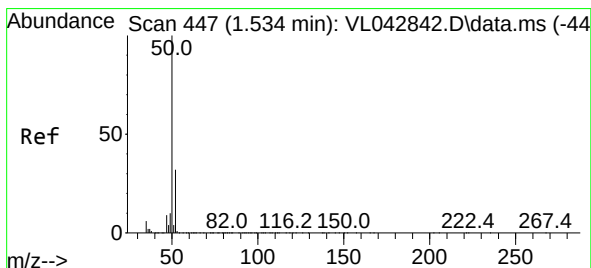
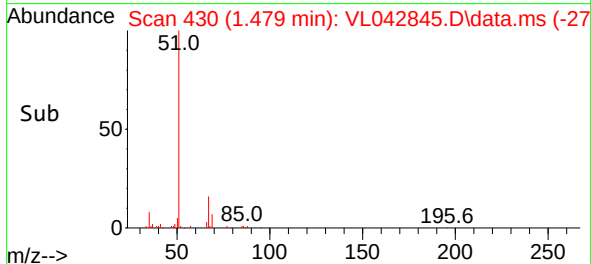
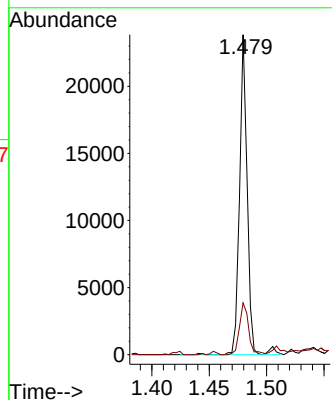
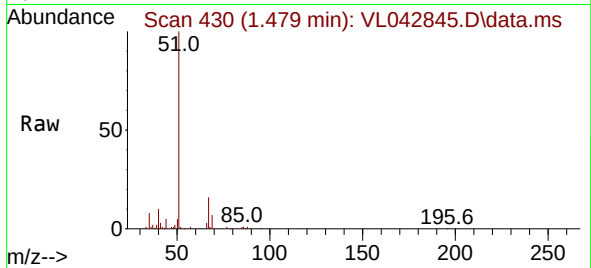




#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

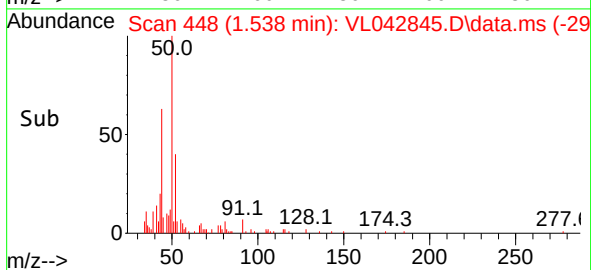
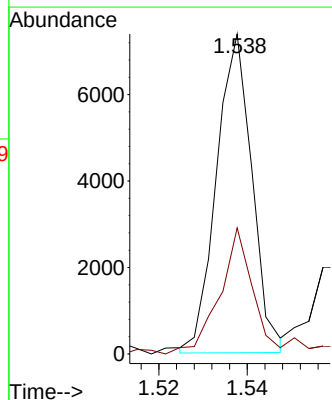
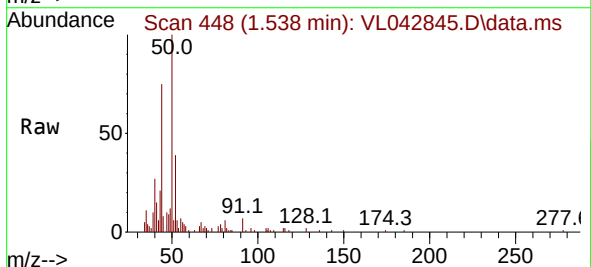
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

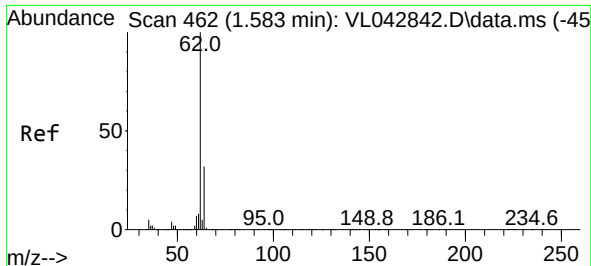
Tgt Ion: 51 Resp: 11115
Ion Ratio Lower Upper
51 100
67 20.5 14.9 22.3



#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 50 Resp: 4112
Ion Ratio Lower Upper
50 100
52 38.2 25.9 38.9

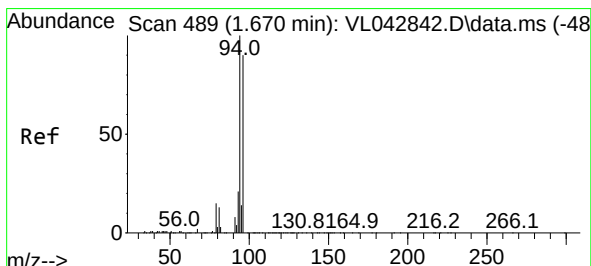
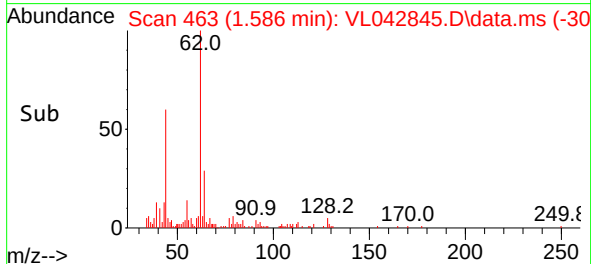
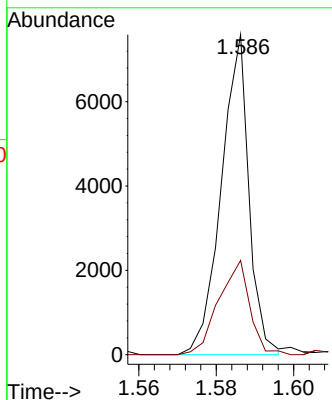
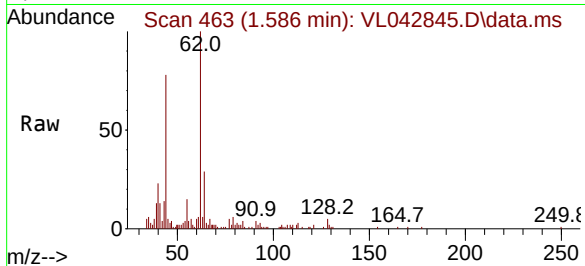




#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.586 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

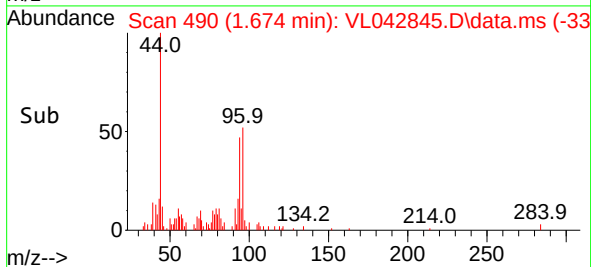
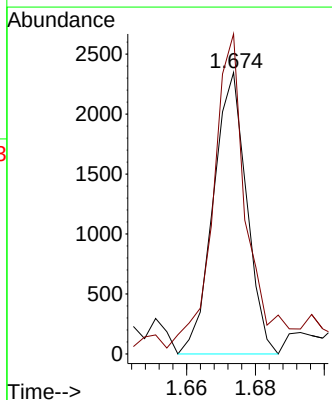
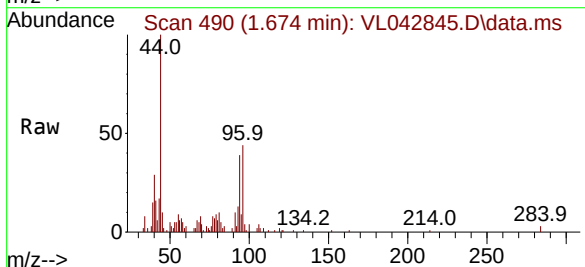
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

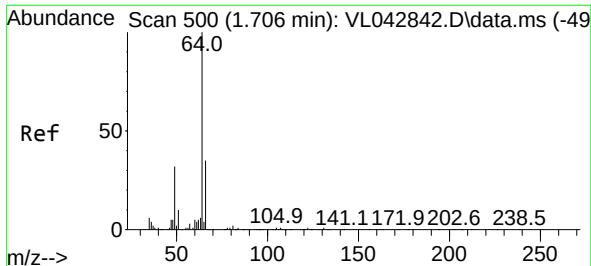
Tgt Ion: 62 Resp: 3762
 Ion Ratio Lower Upper
 62 100
 64 28.3 25.4 38.2



#6
 Bromomethane
 Concen: 0.533 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 94 Resp: 1576
 Ion Ratio Lower Upper
 94 100
 96 106.9 72.1 108.1

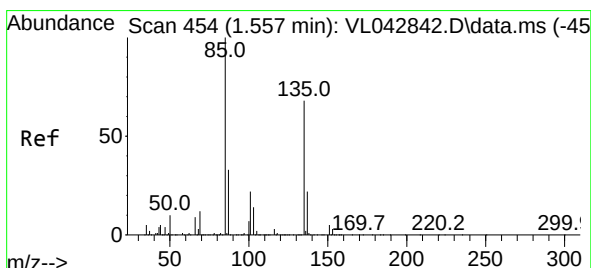
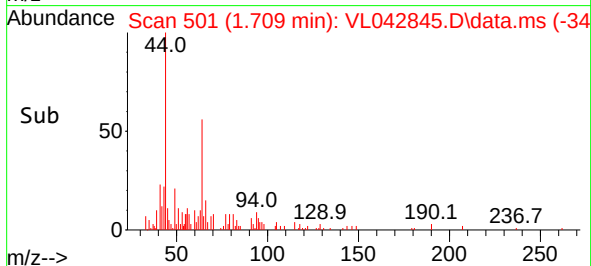
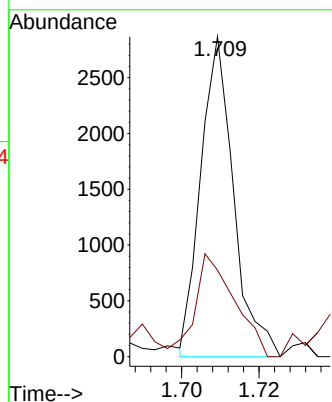
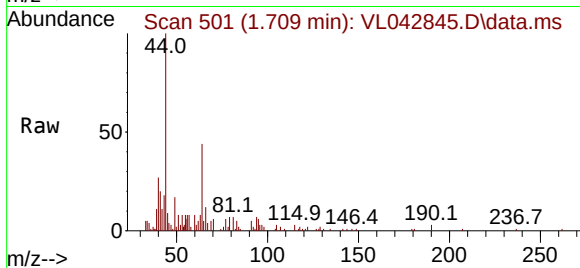




#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

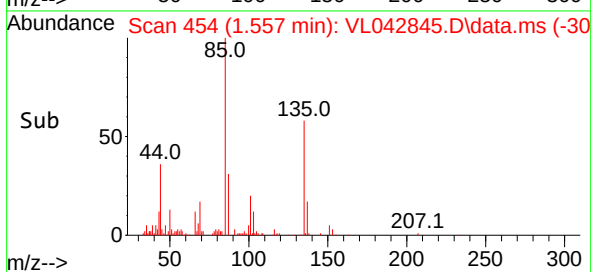
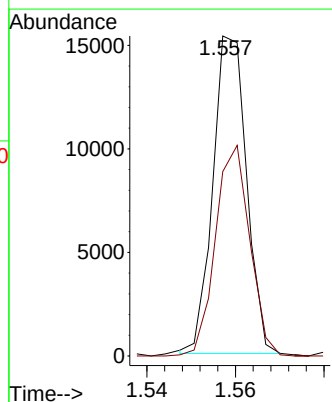
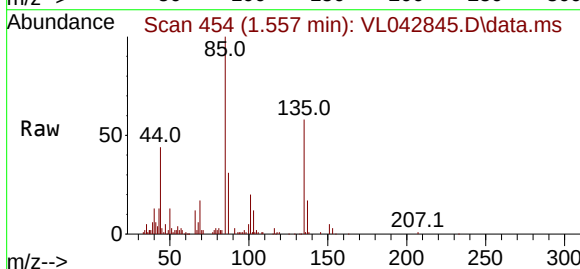
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

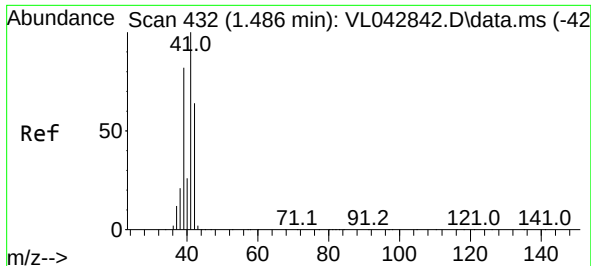
Tgt Ion: 64 Resp: 1690
Ion Ratio Lower Upper
64 100
66 27.0 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 8079
Ion Ratio Lower Upper
85 100
135 67.7 51.2 76.8





#9

Propene

Concen: 0.589 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

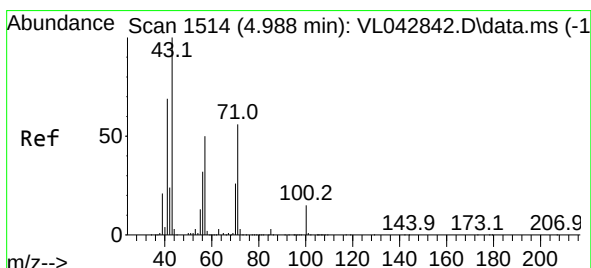
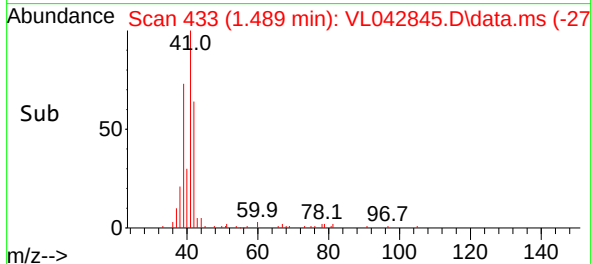
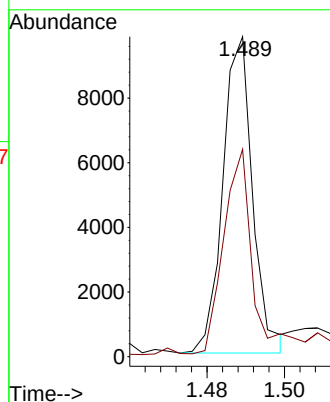
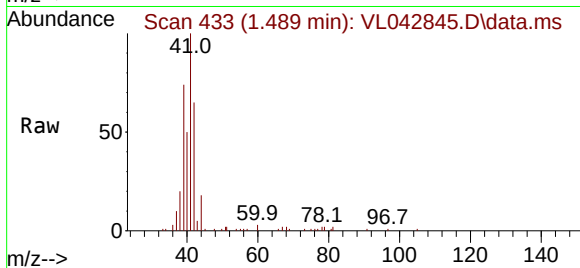
VSTDICC0.5

Tgt Ion: 41 Resp: 5225

Ion Ratio Lower Upper

41 100

42 73.7 53.0 79.4



#10

Heptane

Concen: 0.537 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. 0.010 min

Lab File: VL042845.D

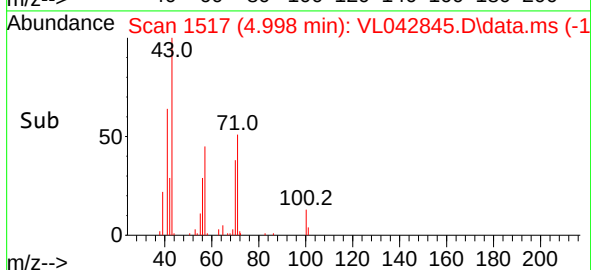
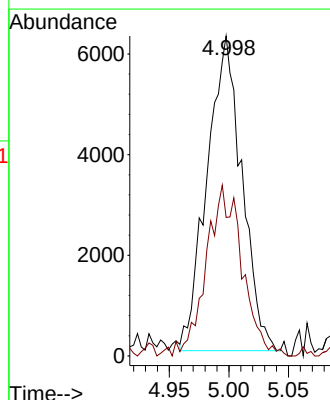
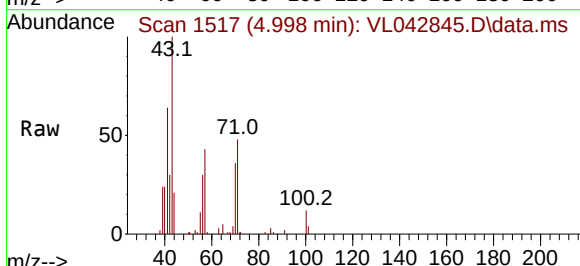
Acq: 13 Aug 2025 10:17

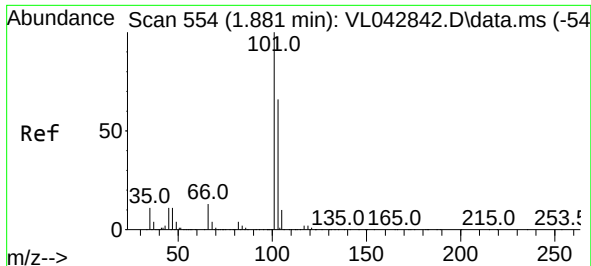
Tgt Ion: 43 Resp: 12747

Ion Ratio Lower Upper

43 100

57 56.9 41.4 62.0

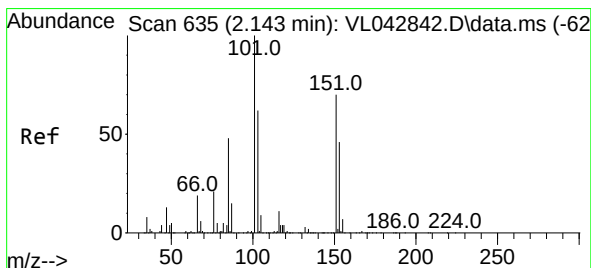
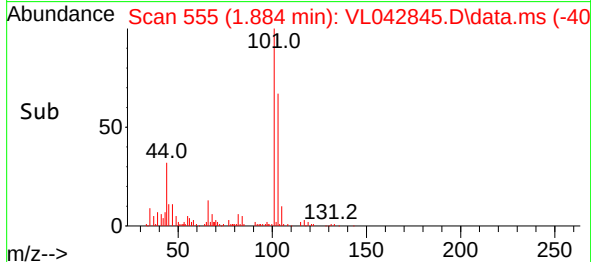
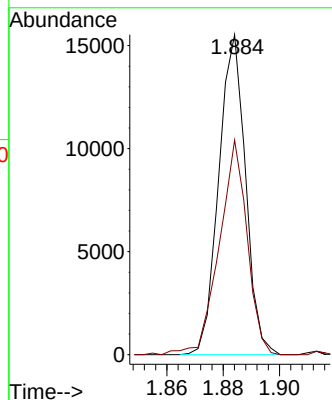
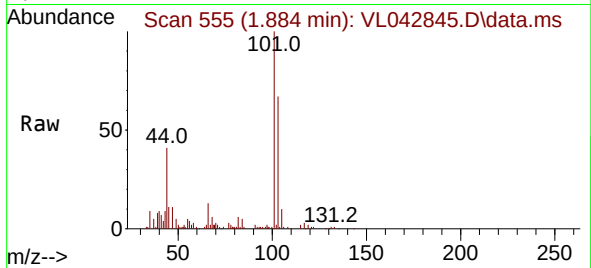




#11
 Trichlorofluoromethane
 Concen: 0.558 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

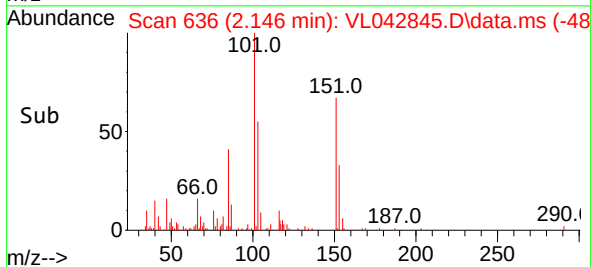
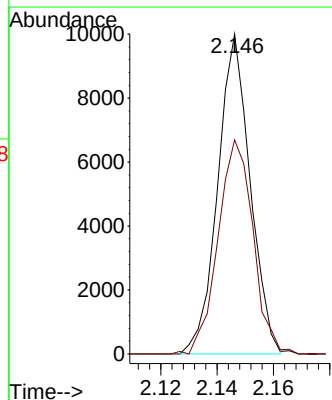
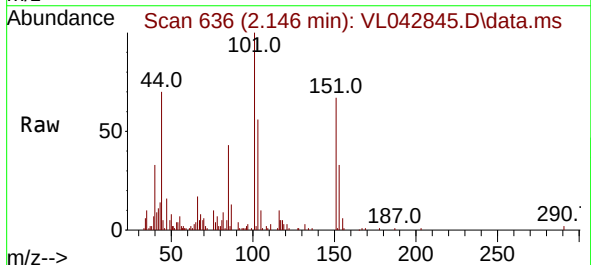
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

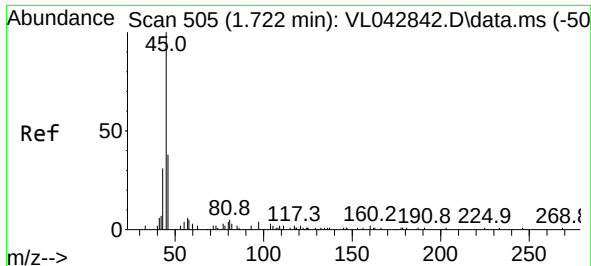
Tgt Ion:101 Resp: 10238
 Ion Ratio Lower Upper
 101 100
 103 67.0 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.546 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion:101 Resp: 7984
 Ion Ratio Lower Upper
 101 100
 151 72.3 56.4 84.6

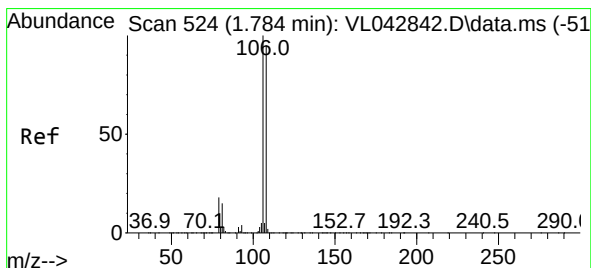
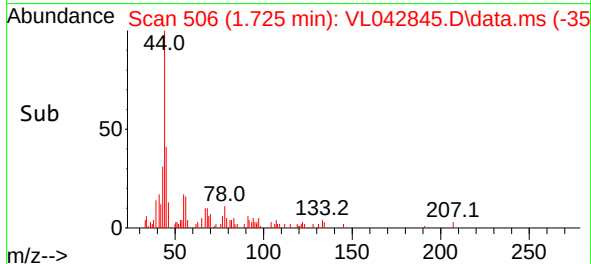
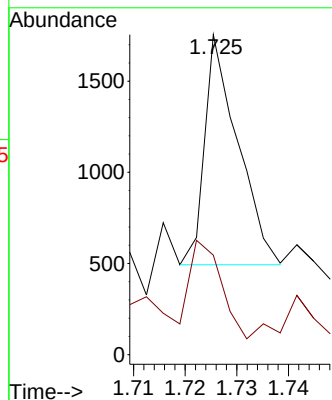
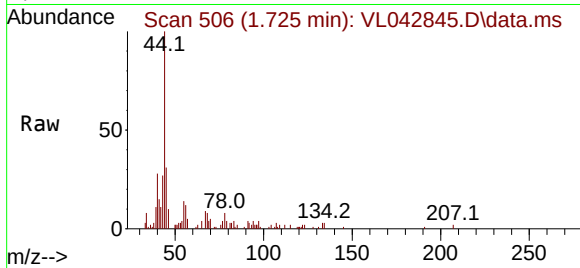




#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

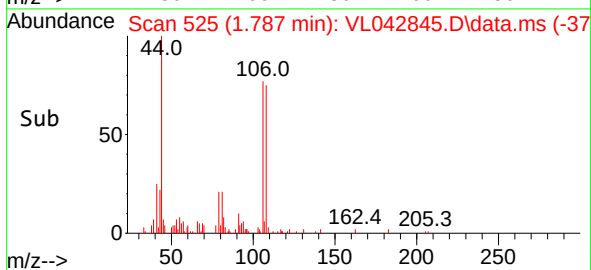
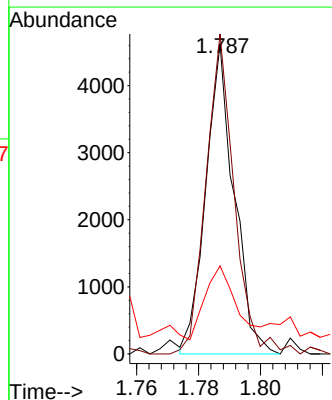
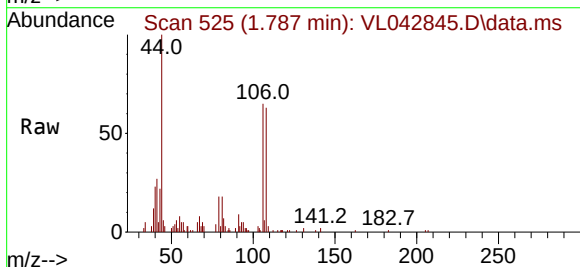
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

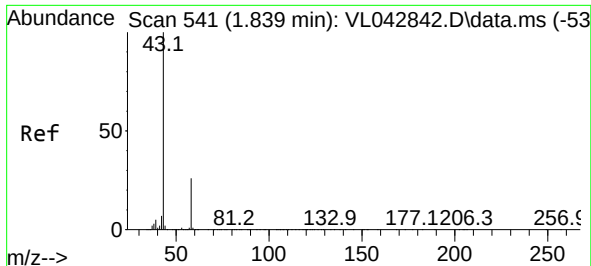
Tgt Ion: 45 Resp: 562
Ion Ratio Lower Upper
45 100
46 131.5 17.5 69.9#



#14
Bromoethene
Concen: 0.554 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 108 Resp: 2932
Ion Ratio Lower Upper
108 100
106 106.1 85.1 127.7
79 62.6 16.3 24.5#

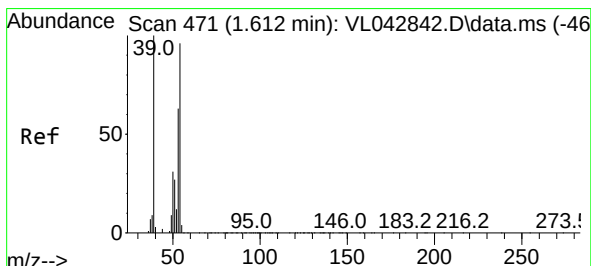
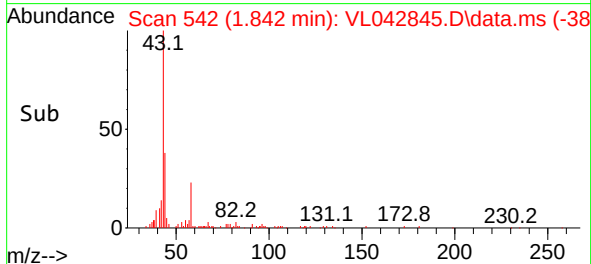
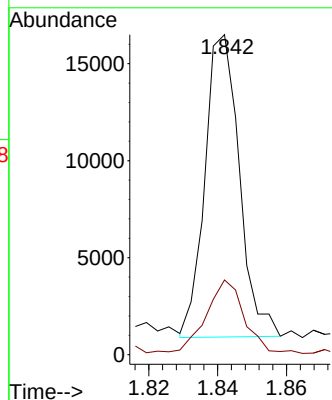
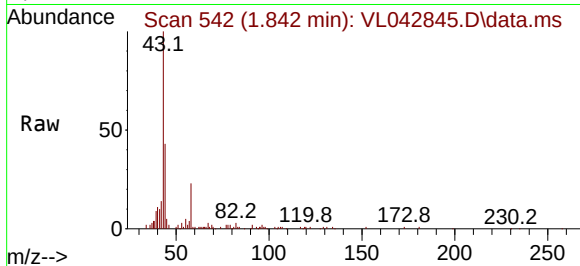




#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

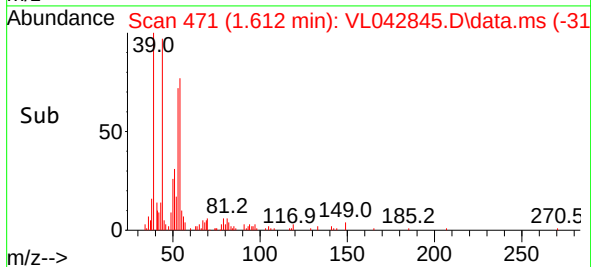
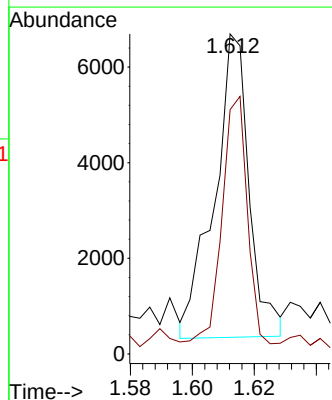
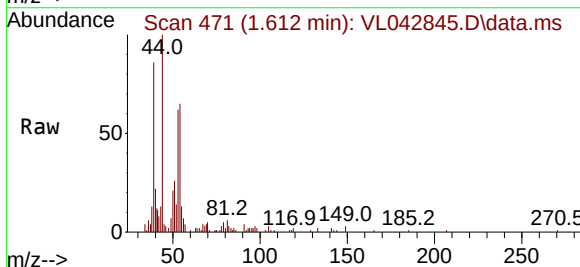
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

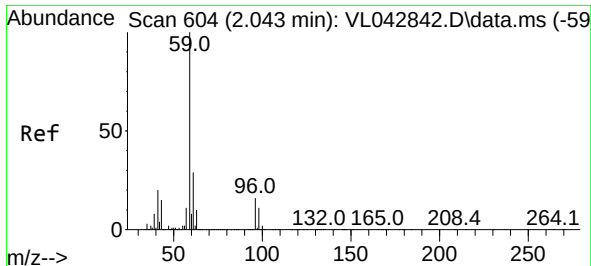
Tgt Ion: 43 Resp: 10836
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6



#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970
Ion Ratio Lower Upper
39 100
54 78.6 63.6 95.4





#17

tert-Butyl alcohol

Concen: 0.612 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

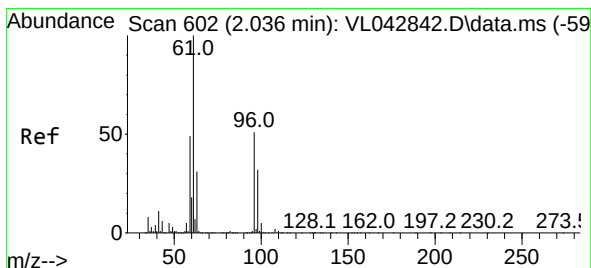
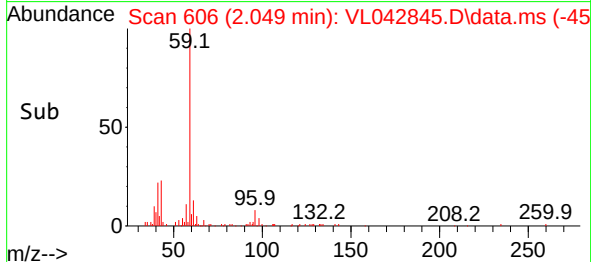
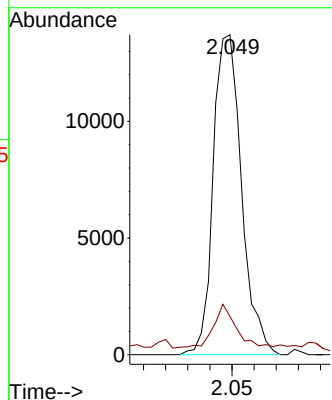
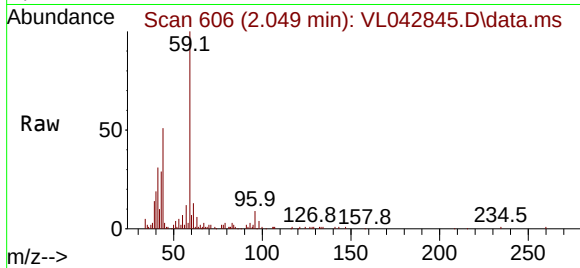
VSTDIC0.5

Tgt Ion: 59 Resp: 12182

Ion Ratio Lower Upper

59 100

57 15.3 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.545 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

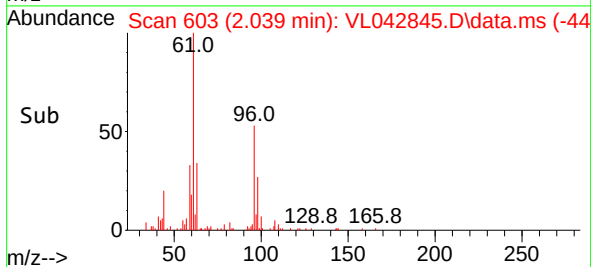
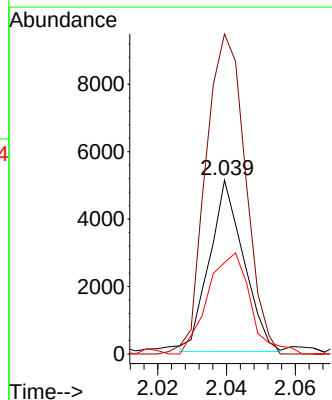
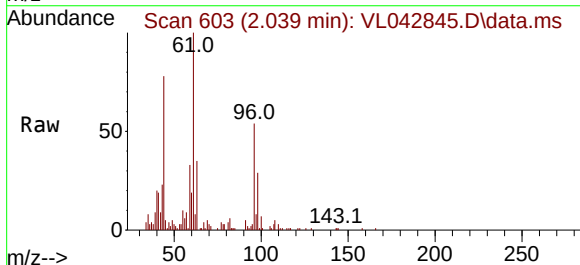
Tgt Ion: 96 Resp: 3501

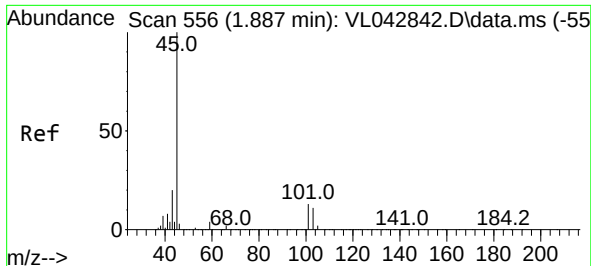
Ion Ratio Lower Upper

96 100

61 188.2 158.2 237.4

98 53.8 50.6 76.0

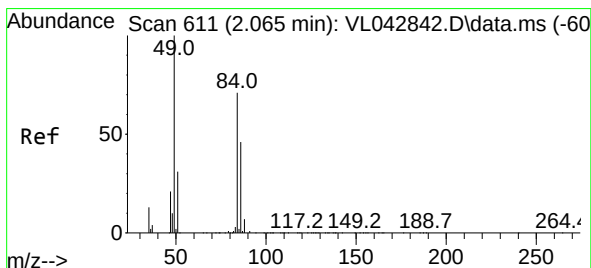
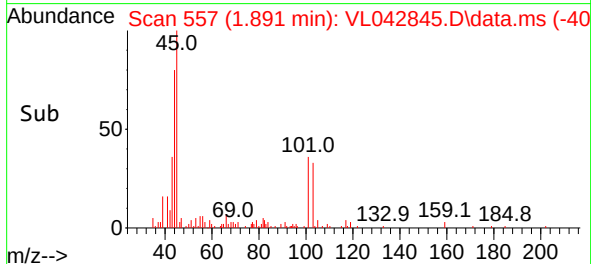
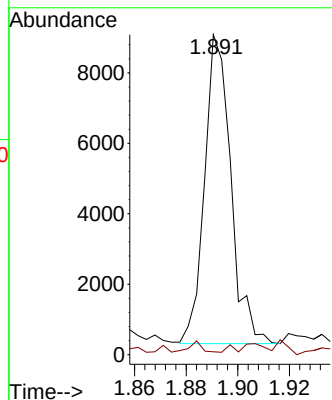
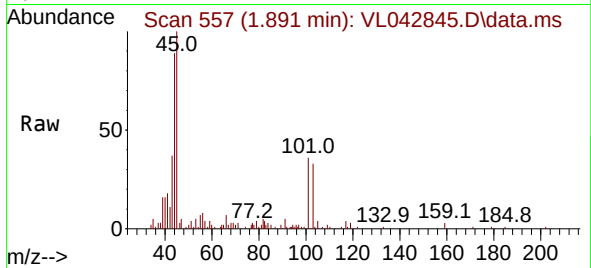




#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

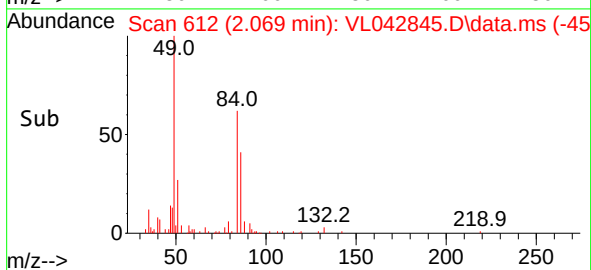
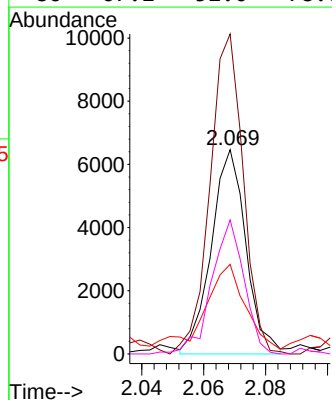
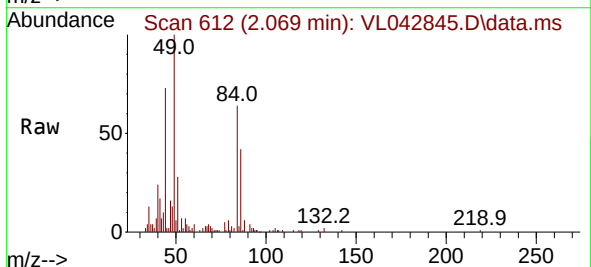
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

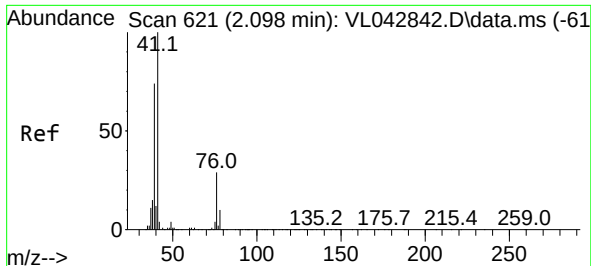
Tgt Ion: 45 Resp: 6194
Ion Ratio Lower Upper
45 100
58 13.3 32.7 49.1#



#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 84 Resp: 5025
Ion Ratio Lower Upper
84 100
49 159.3 112.3 168.5
51 42.5 36.0 54.0
86 67.2 52.0 78.0

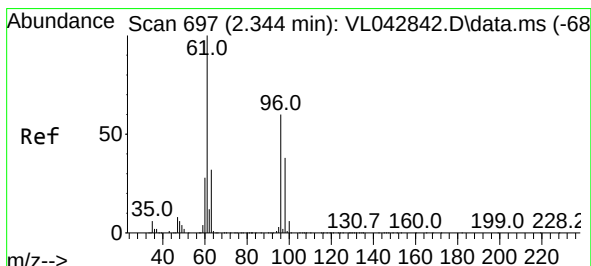
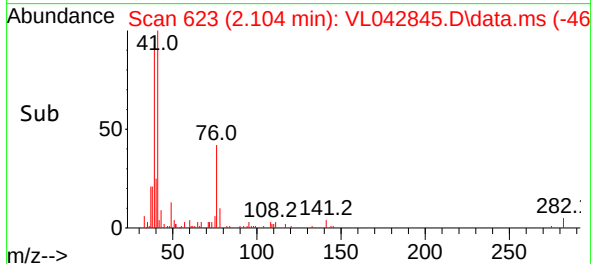
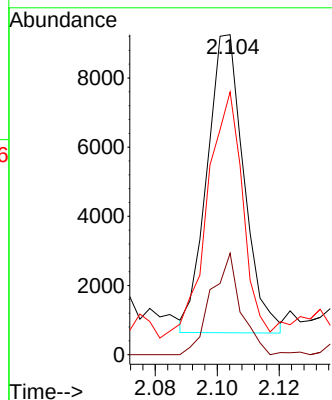
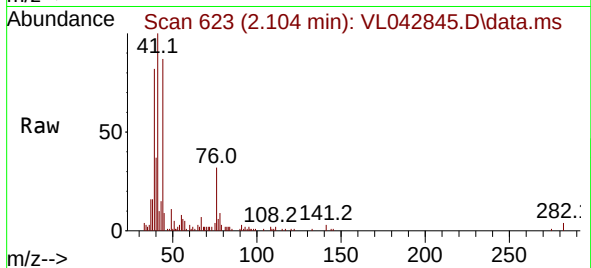




#21
 Allyl Chloride
 Concen: 0.600 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

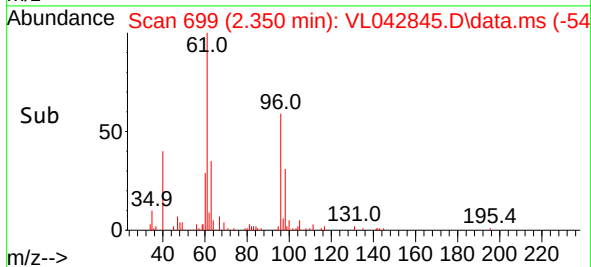
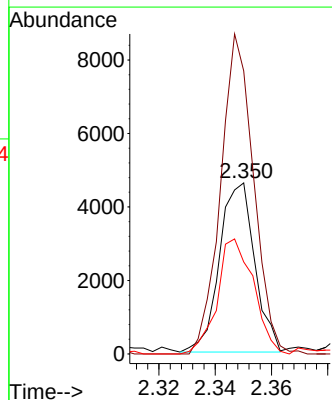
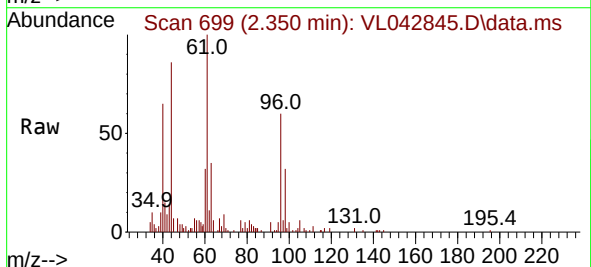
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

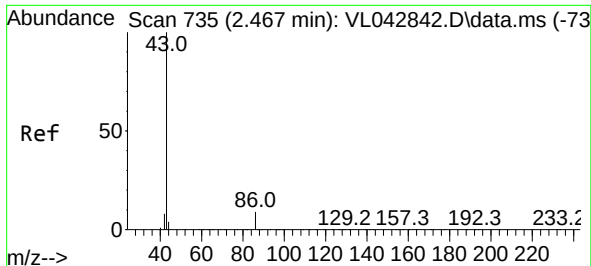
Tgt Ion: 41 Resp: 7120
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.9 35.9
 39 98.9 57.8 86.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.556 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3996
 Ion Ratio Lower Upper
 96 100
 61 167.3 132.6 199.0
 98 54.4 50.0 75.0

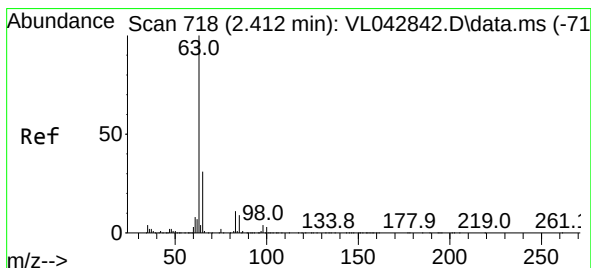
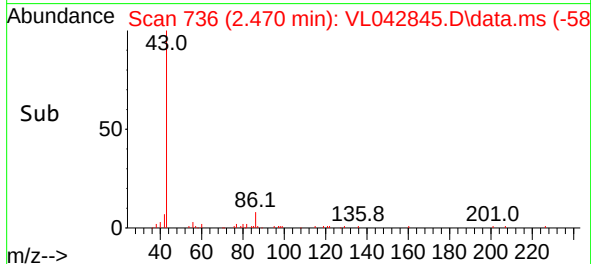
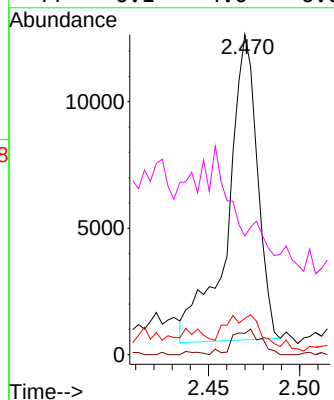
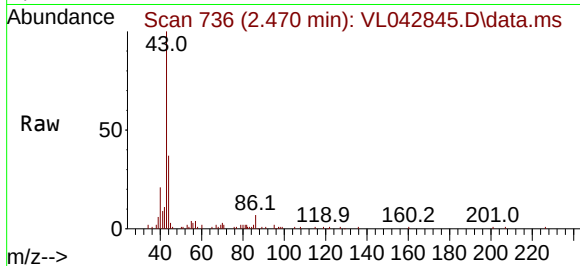




#23
 Vinyl Acetate
 Concen: 0.621 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

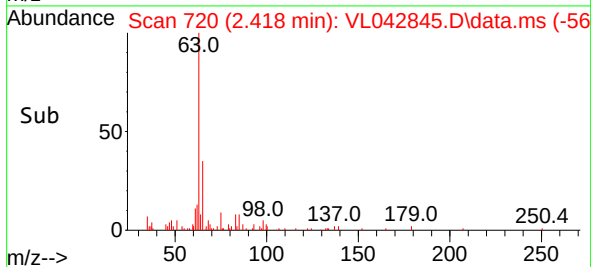
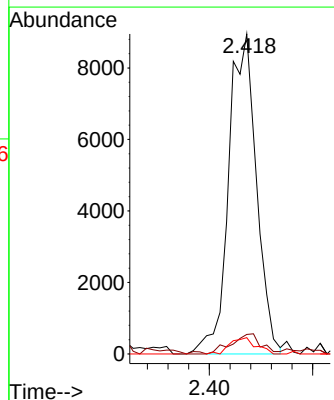
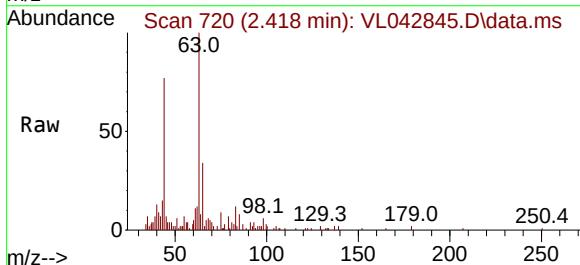
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

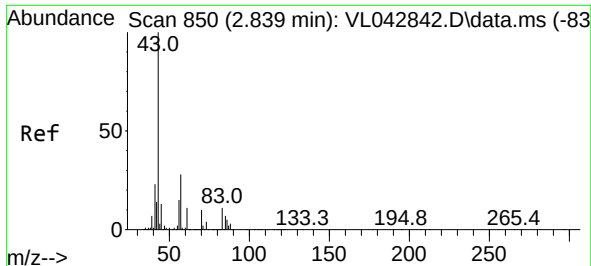
Tgt Ion:	43	Resp:	13709
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.6	9.8
42	9.3	7.0	10.6
44	6.1	4.0	6.0



#24
 1,1-Dichloroethane
 Concen: 0.562 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion:	63	Resp:	8354
Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.1	6.5
100	5.1	1.7	5.1

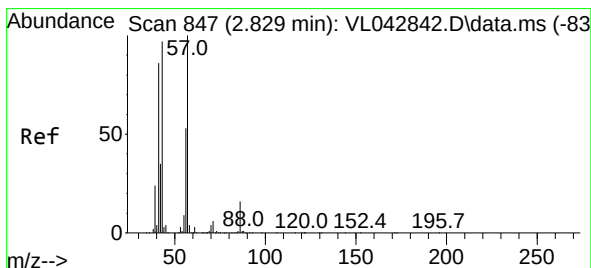
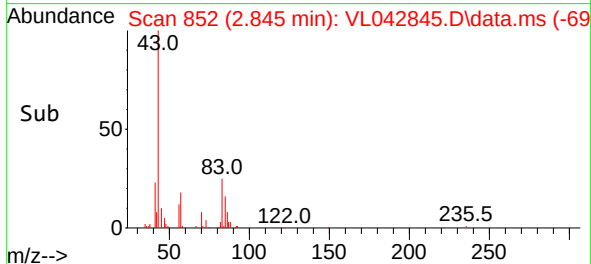
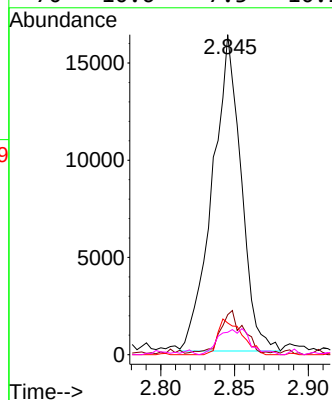
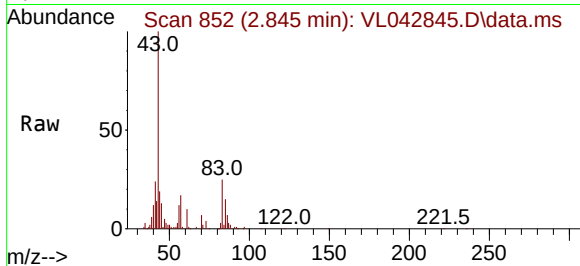




#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

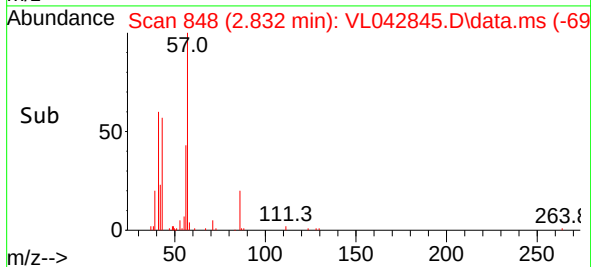
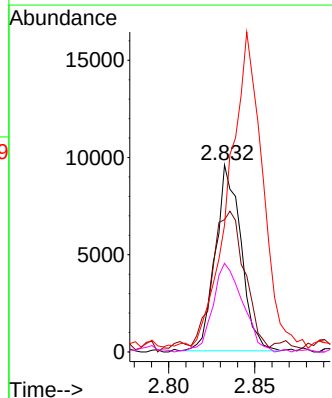
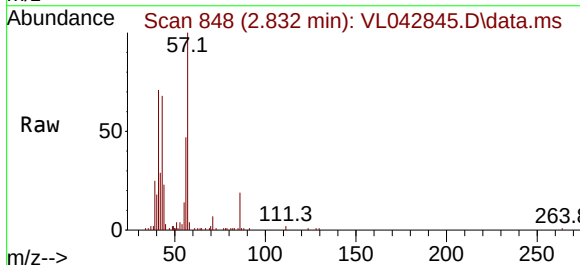
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

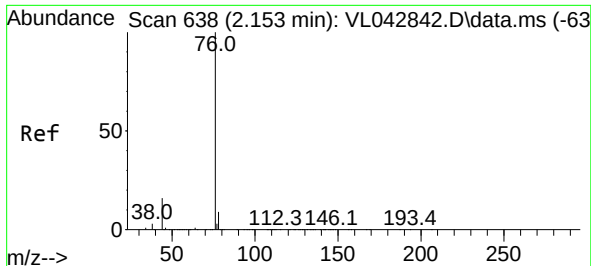
Tgt Ion:	43	Resp:	22148
Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.1	12.1#
61	9.4	7.4	11.2
70	10.6	7.3	10.9



#26
Hexane
Concen: 0.527 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:	57	Resp:	9879
Ion	Ratio	Lower	Upper
57	100		
41	100.6	68.6	103.0
43	236.9	168.5	252.7
56	56.5	41.5	62.3





#27

Carbon Disulfide

Concen: 0.523 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

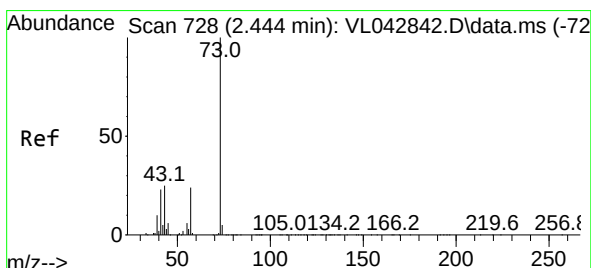
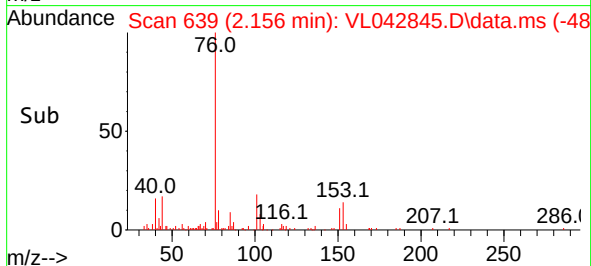
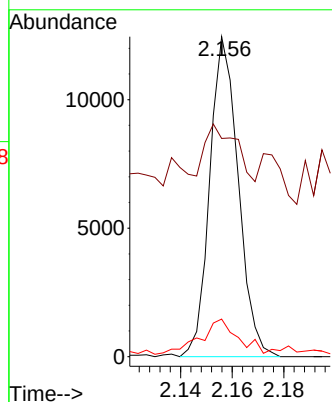
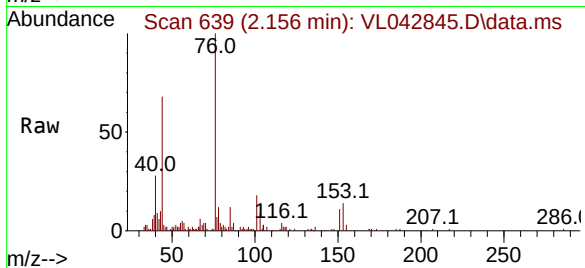
Tgt Ion: 76 Resp: 9539

Ion Ratio Lower Upper

76 100

44 136.8 15.9 23.9#

78 22.2 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.553 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.003 min

Lab File: VL042845.D

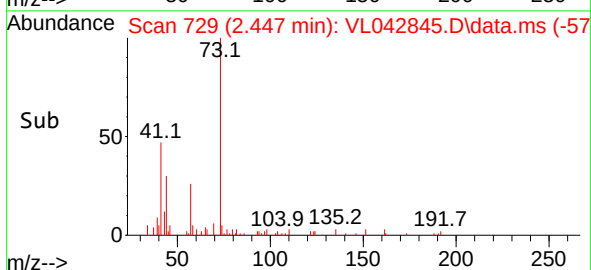
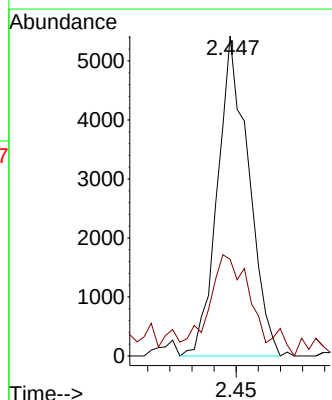
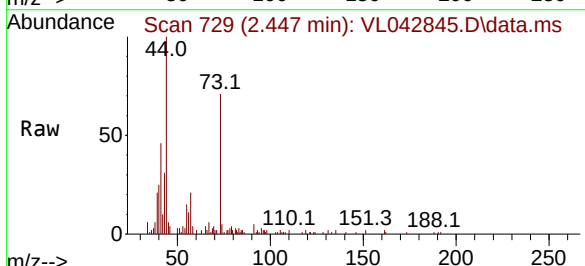
Acq: 13 Aug 2025 10:17

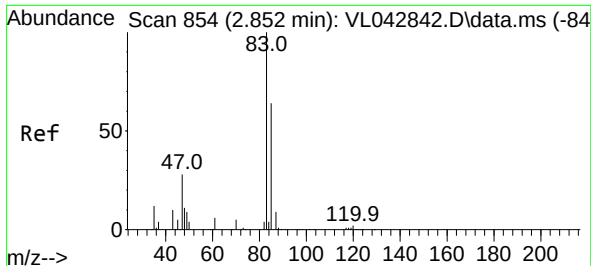
Tgt Ion: 73 Resp: 5284

Ion Ratio Lower Upper

73 100

57 46.5 21.6 32.4#





#29

Chloroform

Concen: 0.545 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

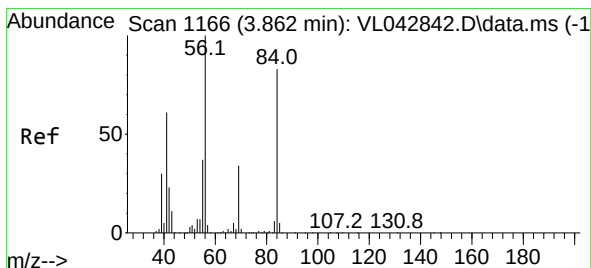
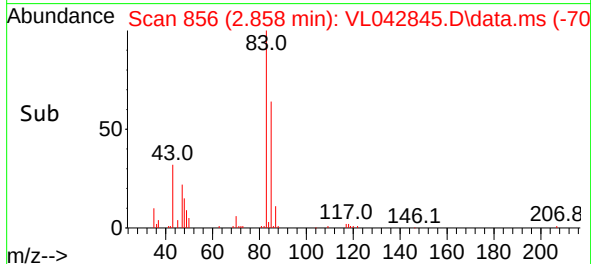
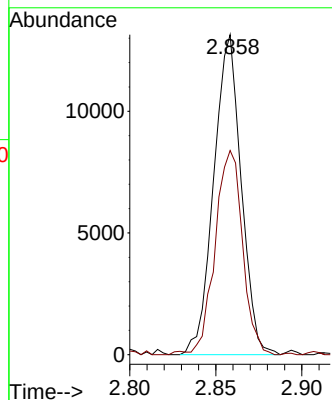
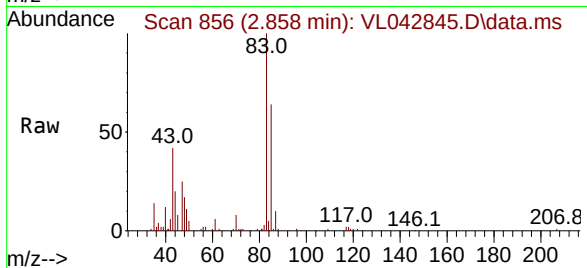
VSTDICC0.5

Tgt Ion: 83 Resp: 14586

Ion Ratio Lower Upper

83 100

85 63.8 51.1 76.7



#30

Cyclohexane

Concen: 0.550 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

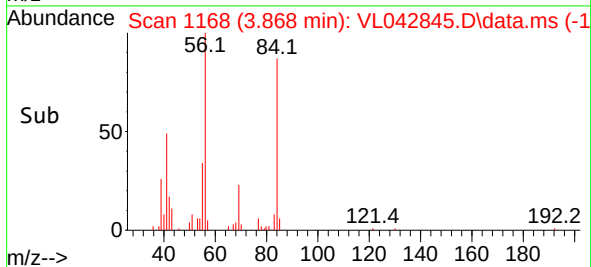
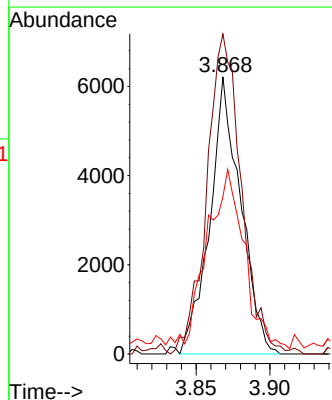
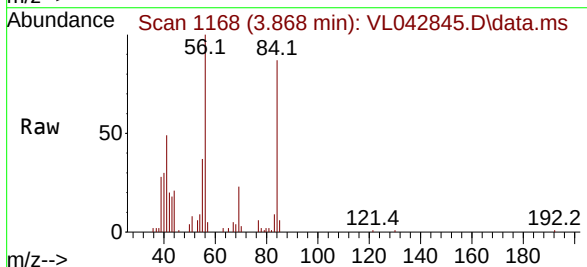
Tgt Ion: 84 Resp: 9037

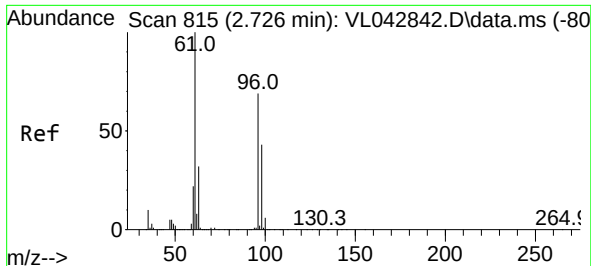
Ion Ratio Lower Upper

84 100

56 131.1 98.8 148.2

41 80.1 61.3 91.9

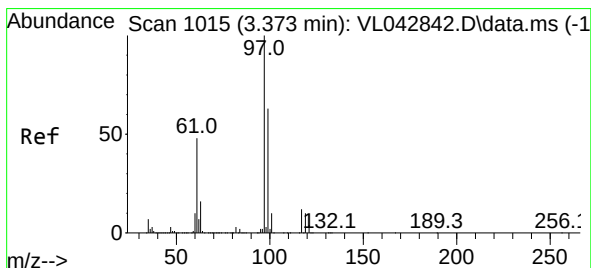
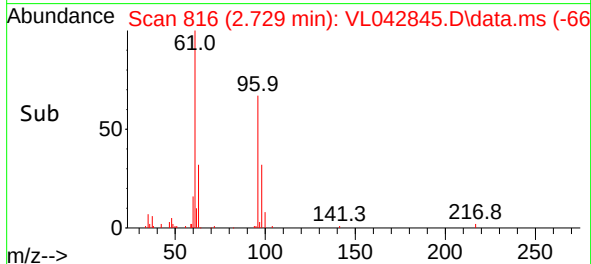
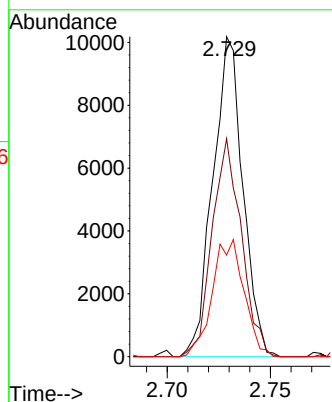
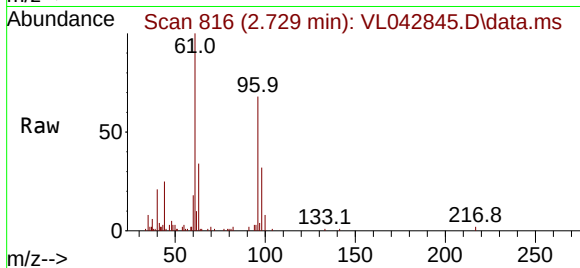




#31
 cis-1,2-Dichloroethene
 Concen: 0.550 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

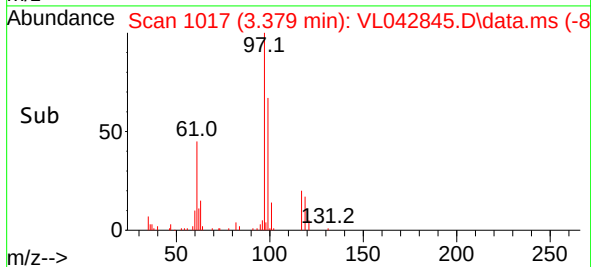
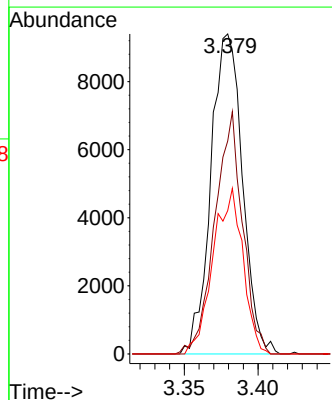
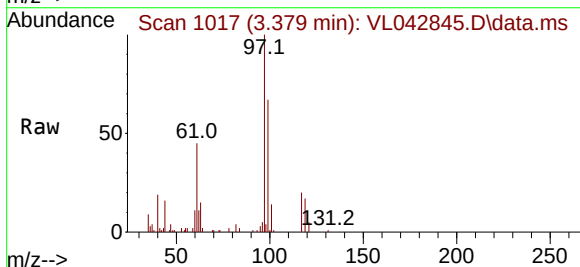
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

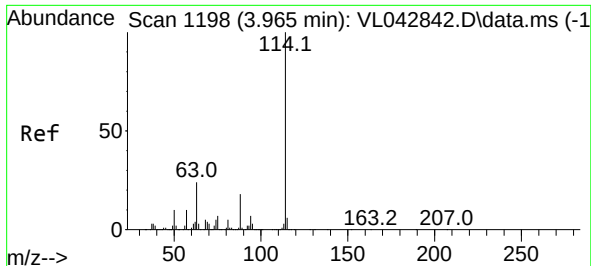
Tgt Ion: 61 Resp: 10308
 Ion Ratio Lower Upper
 61 100
 96 61.7 55.0 82.6
 98 28.7 34.3 51.5#



#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.007 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 97 Resp: 14011
 Ion Ratio Lower Upper
 97 100
 99 66.4 51.0 76.6
 61 48.9 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

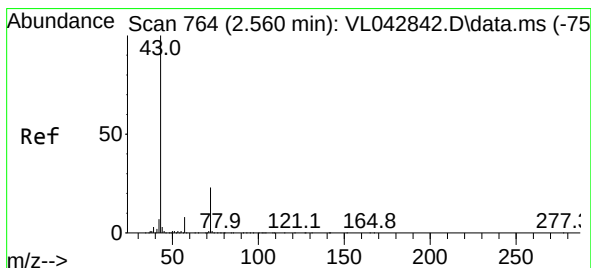
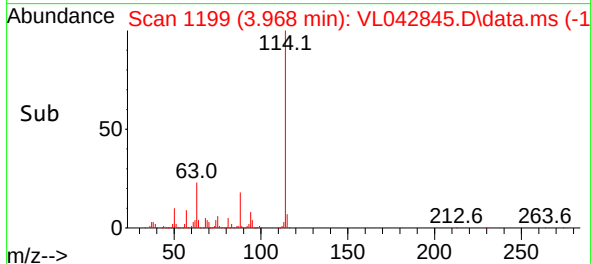
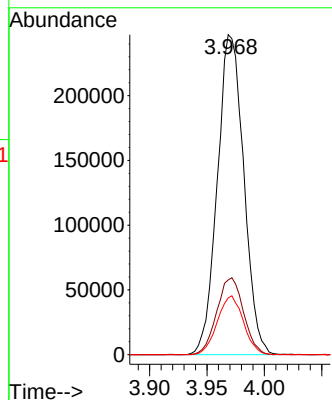
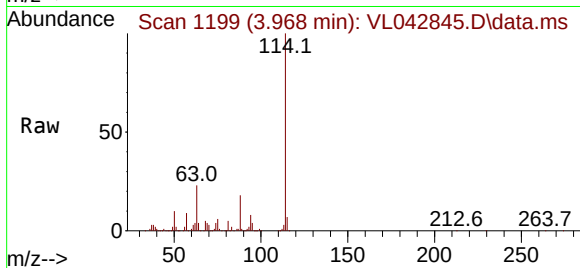
Tgt Ion:114 Resp: 396264

Ion Ratio Lower Upper

114 100

63 24.3 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.558 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042845.D

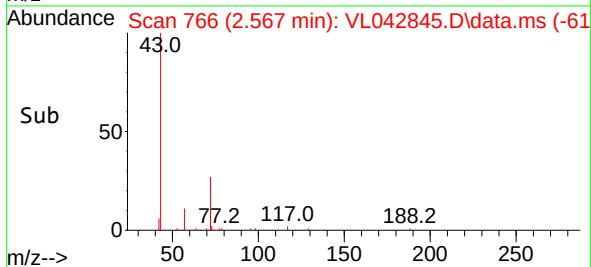
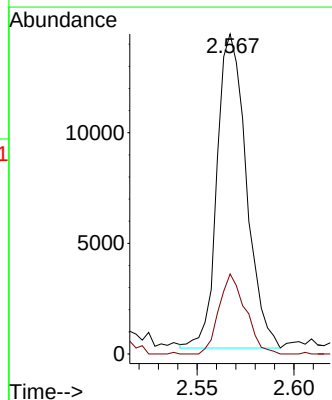
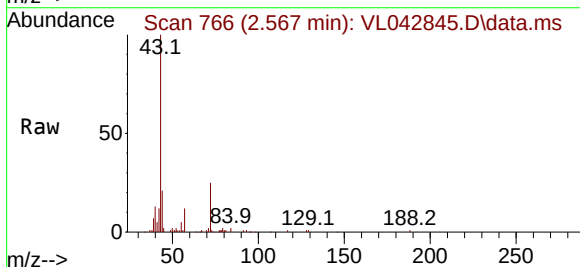
Acq: 13 Aug 2025 10:17

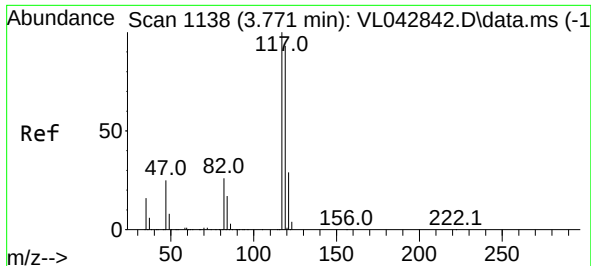
Tgt Ion: 43 Resp: 14923

Ion Ratio Lower Upper

43 100

72 23.3 18.6 28.0

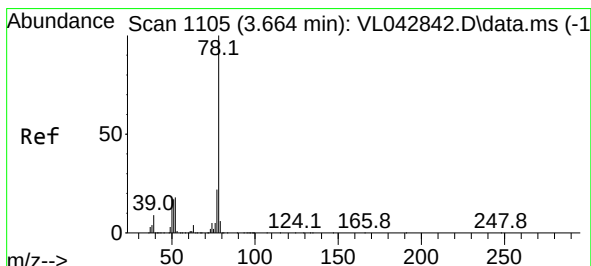
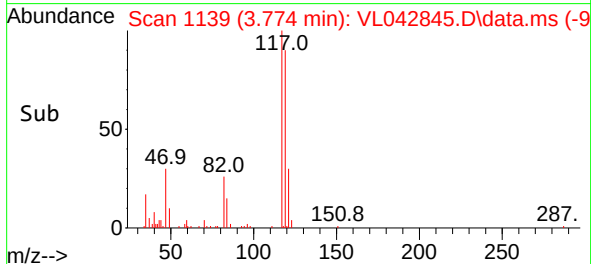
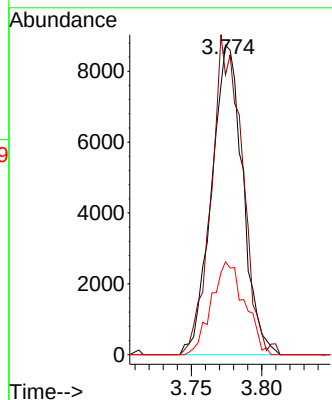
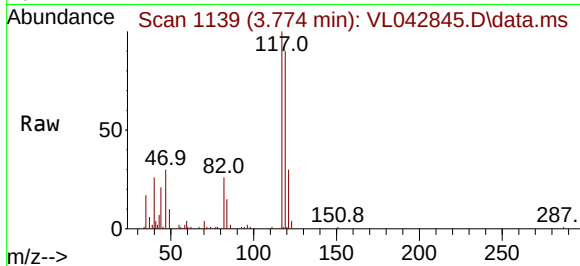




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

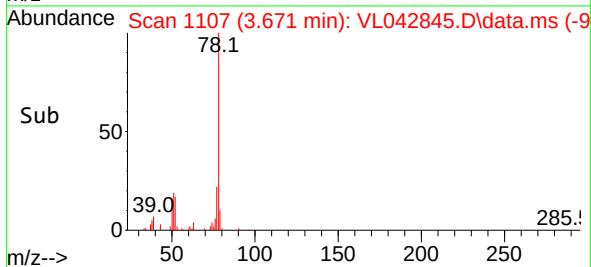
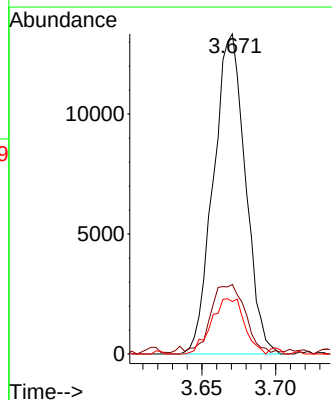
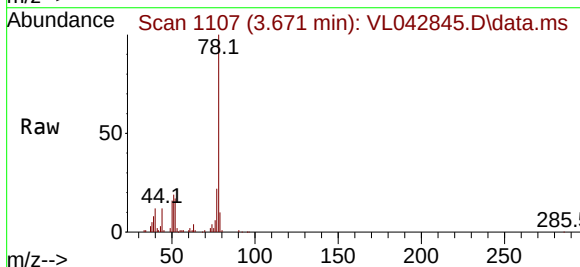
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

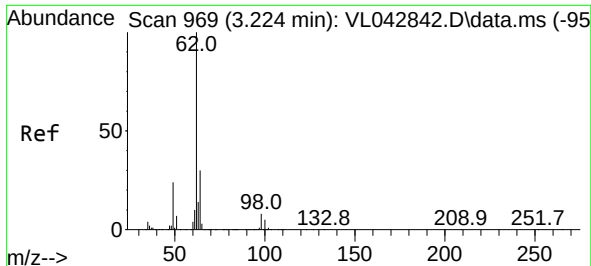
Tgt Ion:117 Resp: 13507
Ion Ratio Lower Upper
117 100
119 90.3 74.7 112.1
121 30.0 23.2 34.8



#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 78 Resp: 20073
Ion Ratio Lower Upper
78 100
77 21.0 17.7 26.5
50 16.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 0.512 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

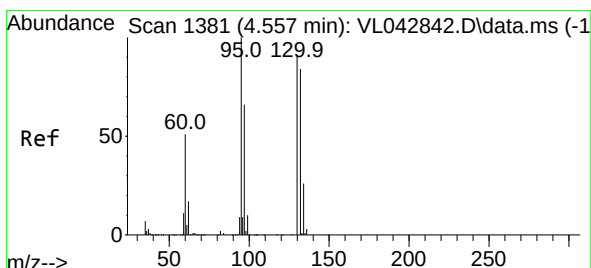
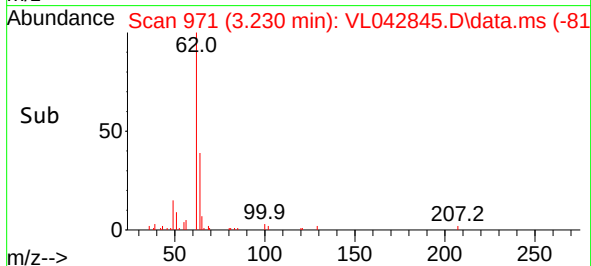
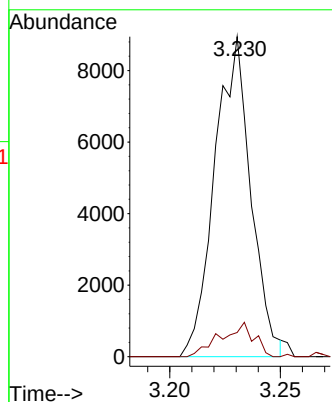
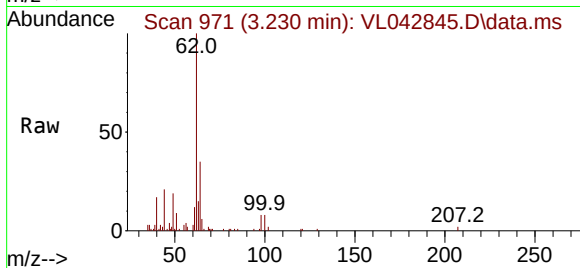
VSTDIC0.5

Tgt Ion: 62 Resp: 10141

Ion Ratio Lower Upper

62 100

98 10.0 5.9 8.9#



#38

Trichloroethene

Concen: 0.572 ppbv

RT: 4.564 min Scan# 1383

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion:130 Resp: 9918

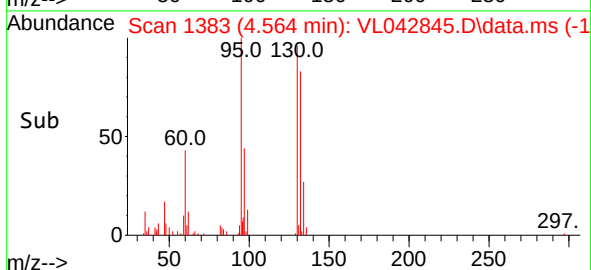
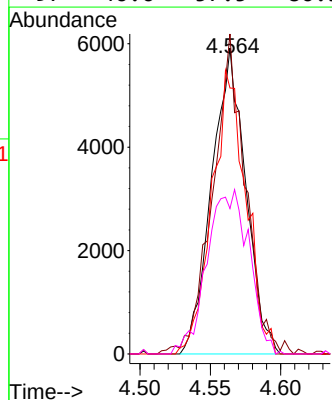
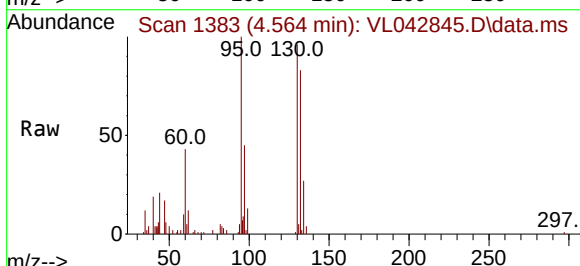
Ion Ratio Lower Upper

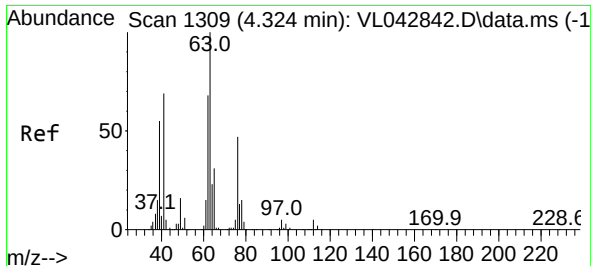
130 100

95 103.5 87.6 131.4

132 86.9 73.8 110.8

97 46.6 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.541 ppbv

RT: 4.334 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

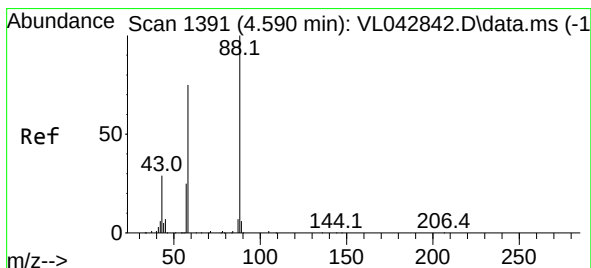
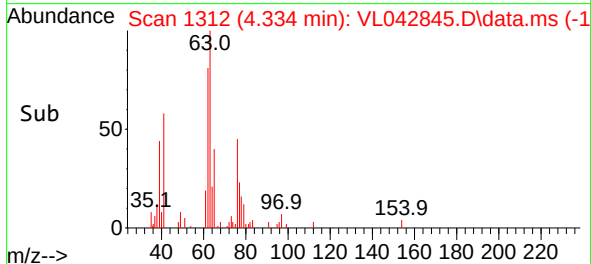
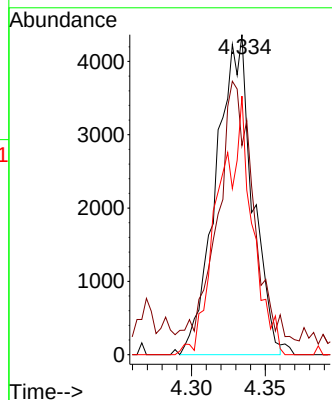
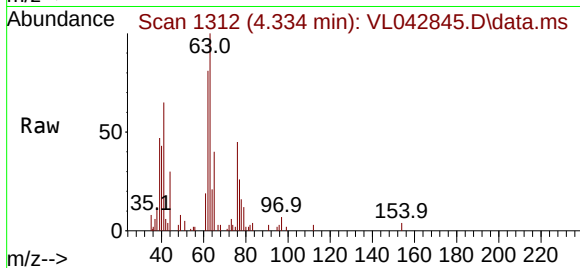
Tgt Ion: 63 Resp: 7491

Ion Ratio Lower Upper

63 100

41 57.8 55.0 82.4

62 79.7 54.4 81.6



#40

1,4-Dioxane

Concen: 0.318 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion: 88 Resp: 2065

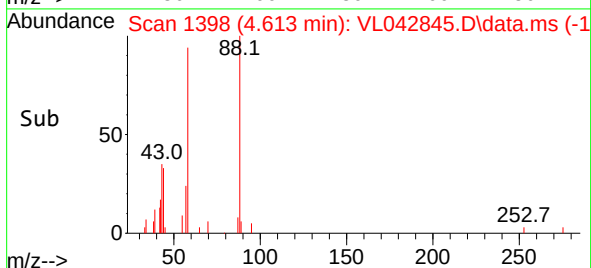
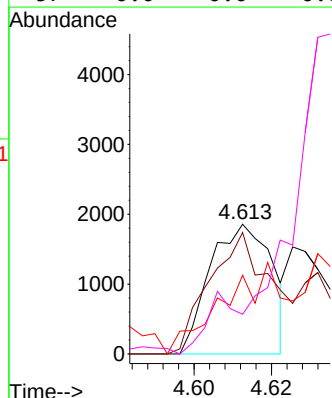
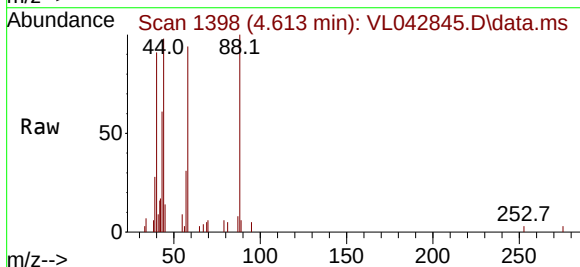
Ion Ratio Lower Upper

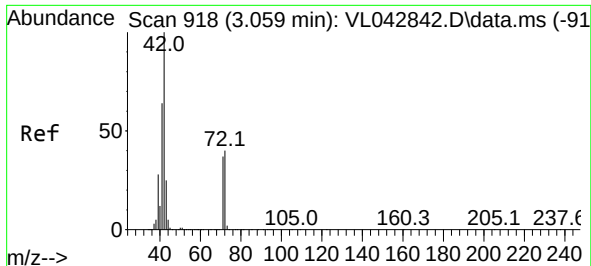
88 100

58 214.7 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

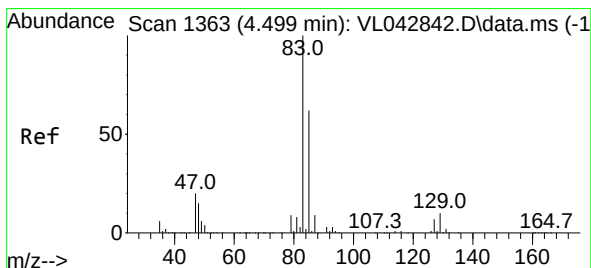
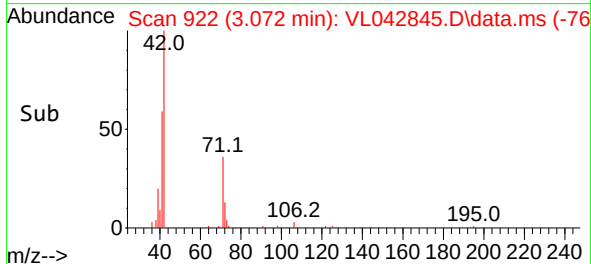
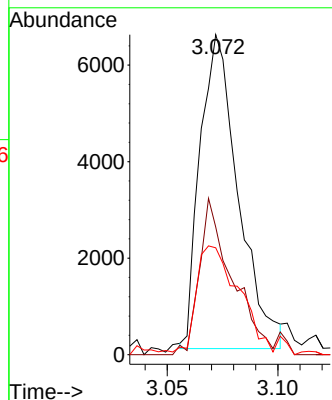
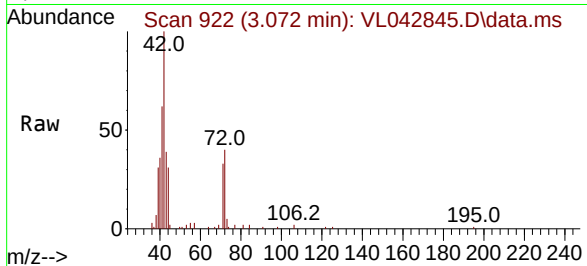




#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

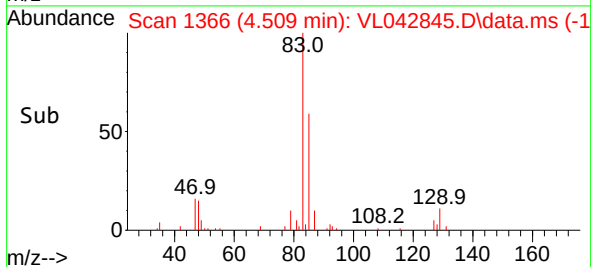
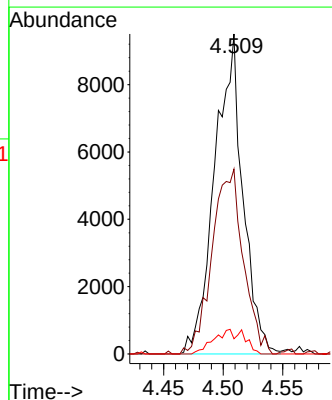
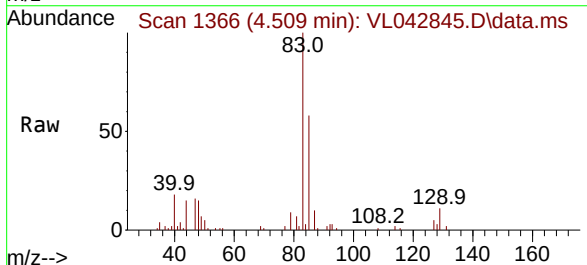
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

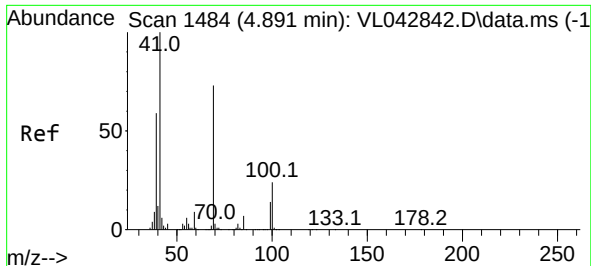
Tgt Ion:	42	Resp:	7827
Ion	Ratio	Lower	Upper
42	100		
72	44.5	32.6	48.8
71	42.0	30.0	45.0



#42
Bromodichloromethane
Concen: 0.527 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:	83	Resp:	15580
Ion	Ratio	Lower	Upper
83	100		
85	57.7	49.8	74.8
127	4.7	5.8	8.6

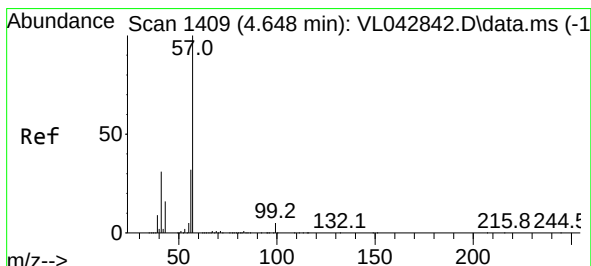
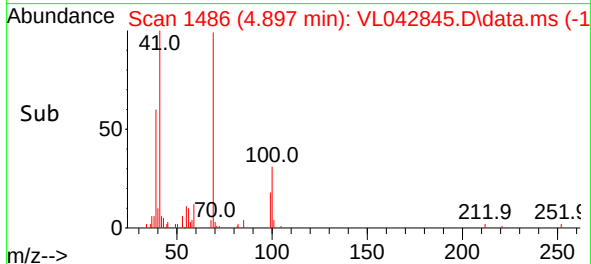
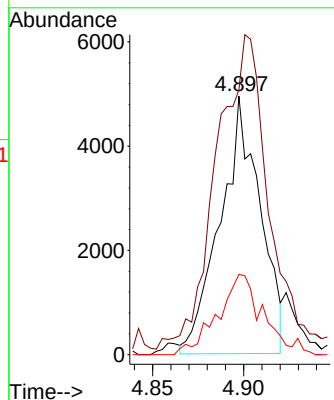
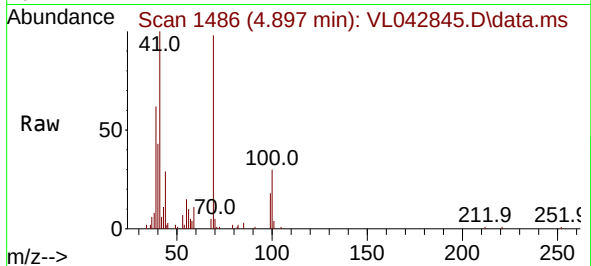




#43
Methyl Methacrylate
Concen: 0.484 ppbv
RT: 4.897 min Scan# 1410
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

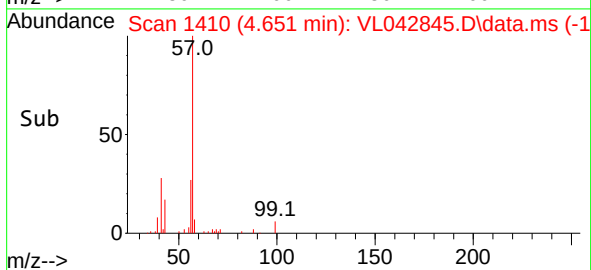
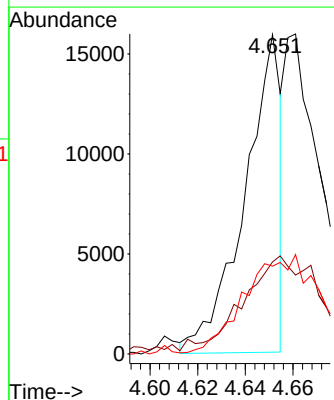
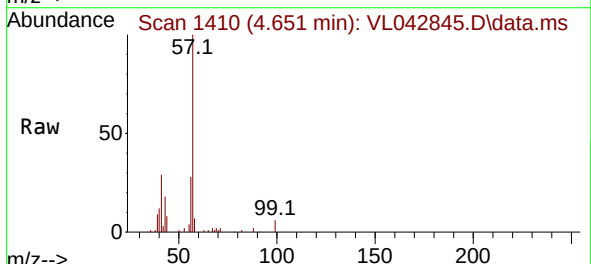
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

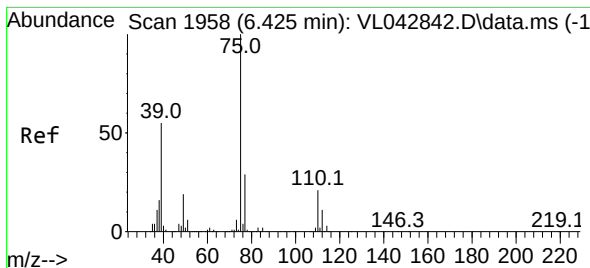
Tgt Ion: 69 Resp: 7529
Ion Ratio Lower Upper
69 100
41 158.8 114.6 172.0
100 35.6 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 0.263 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 57 Resp: 16770
Ion Ratio Lower Upper
57 100
41 65.8 24.8 37.2#
56 0.0 25.5 38.3#





#45

t-1,3-Dichloropropene

Concen: 0.312 ppbv

RT: 6.435 min Scan# 1958

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

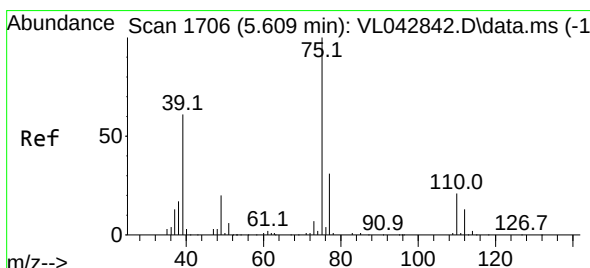
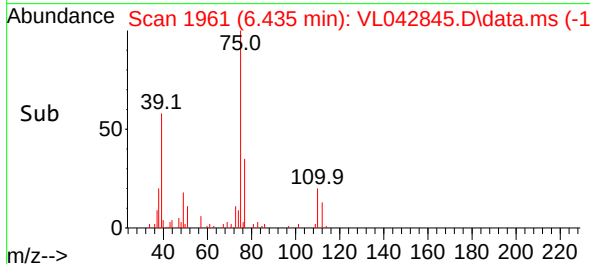
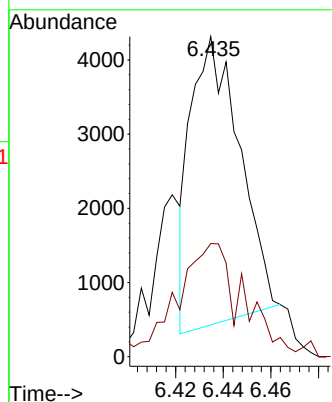
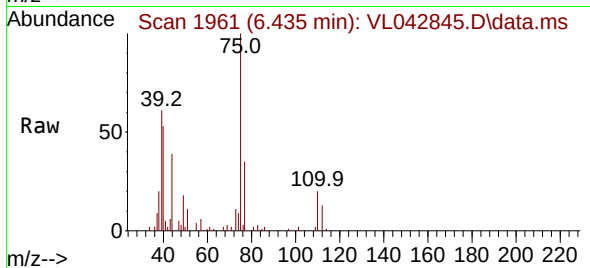
VSTDIC0.5

Tgt Ion: 75 Resp: 5507

Ion Ratio Lower Upper

75 100

77 35.4 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 0.221 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

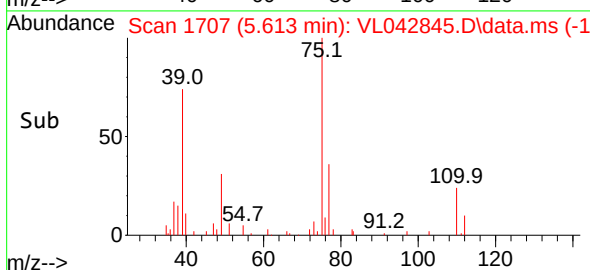
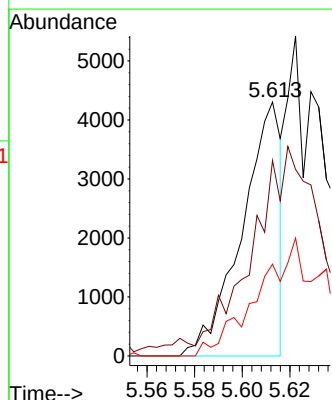
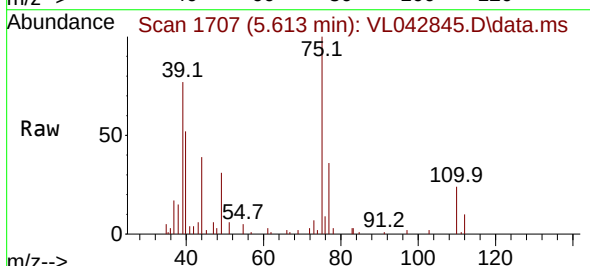
Tgt Ion: 75 Resp: 4895

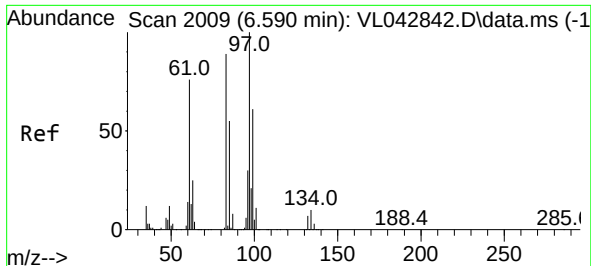
Ion Ratio Lower Upper

75 100

39 70.0 48.9 73.3

77 36.2 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 0.214 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 3140

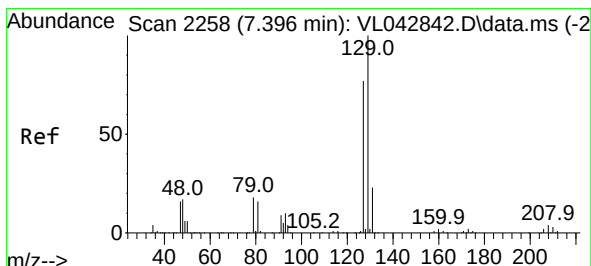
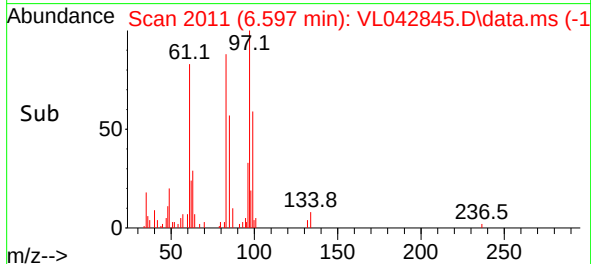
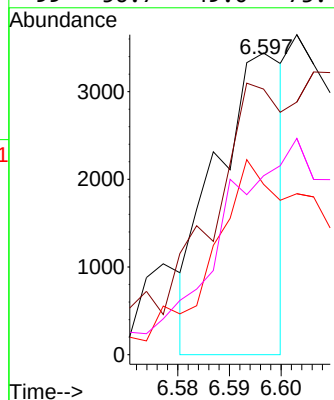
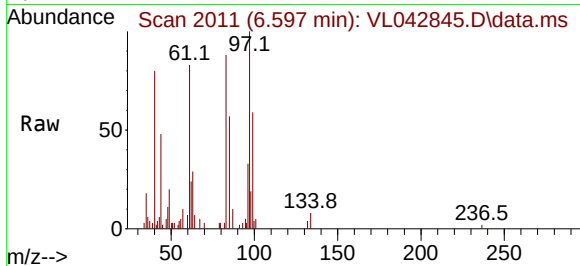
Ion Ratio Lower Upper

97 100

83 74.9 71.0 106.4

85 59.0 43.6 65.4

99 56.7 49.0 73.4



#48

Dibromochloromethane

Concen: 0.497 ppbv

RT: 7.406 min Scan# 2261

Delta R.T. 0.010 min

Lab File: VL042845.D

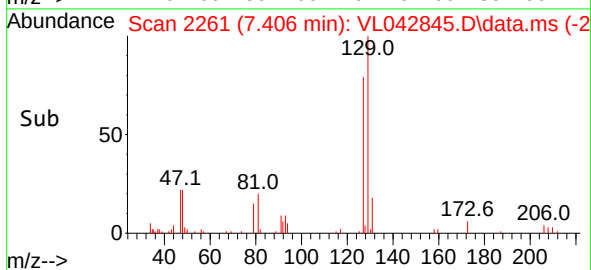
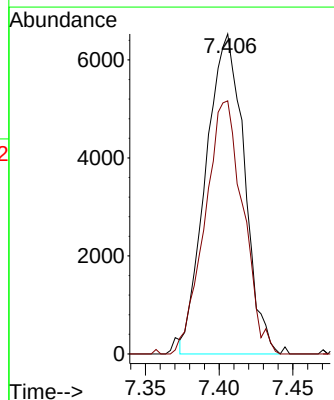
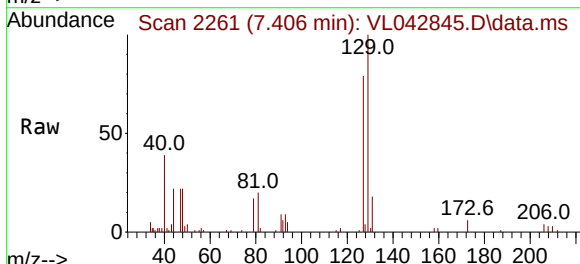
Acq: 13 Aug 2025 10:17

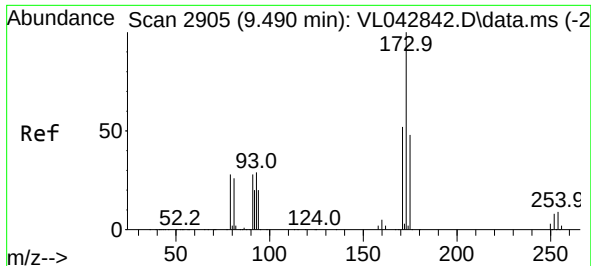
Tgt Ion: 129 Resp: 11805

Ion Ratio Lower Upper

129 100

127 79.1 39.4 118.2

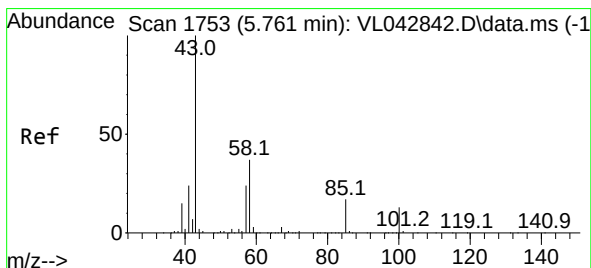
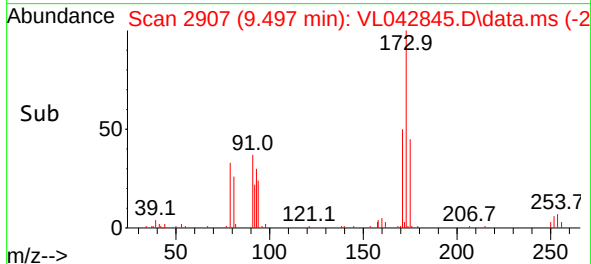
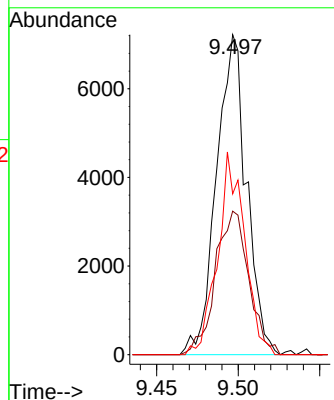
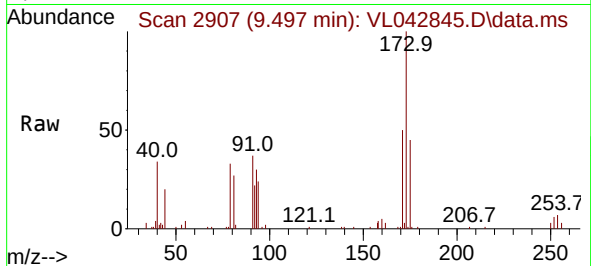




#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2905
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

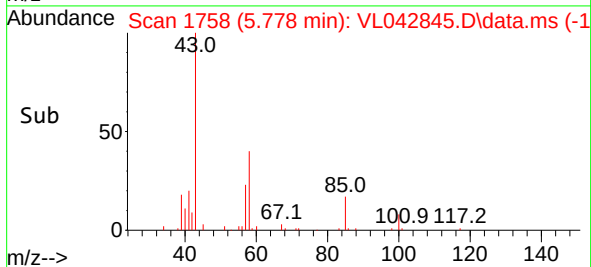
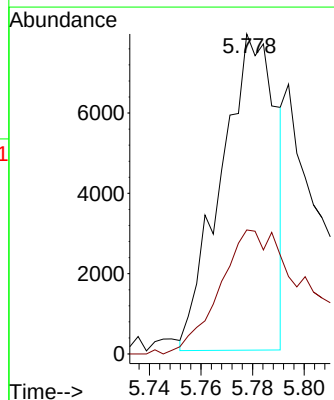
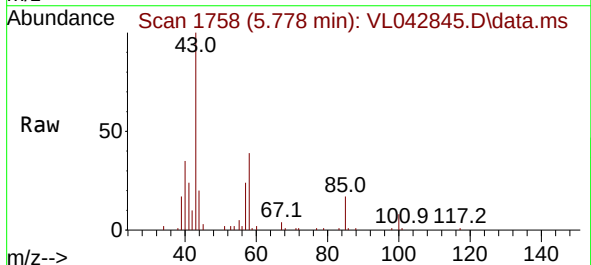
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

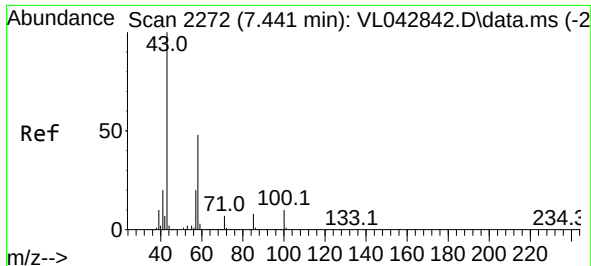
Tgt Ion:173 Resp: 9232
Ion Ratio Lower Upper
173 100
175 49.9 39.2 58.8
171 57.0 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 0.321 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 11657
Ion Ratio Lower Upper
43 100
58 66.0 29.8 44.8#

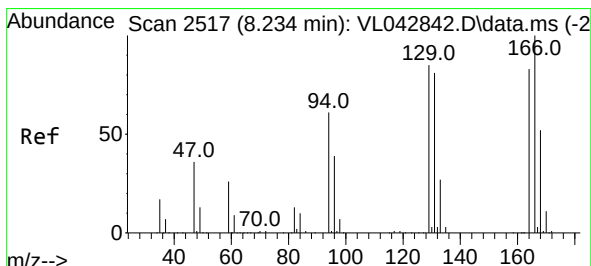
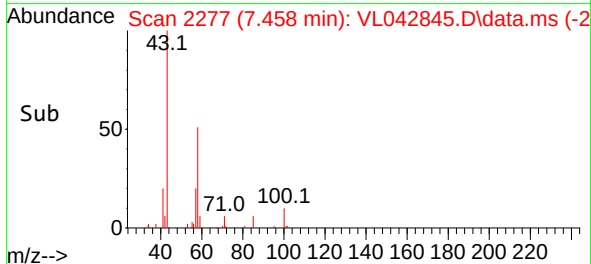
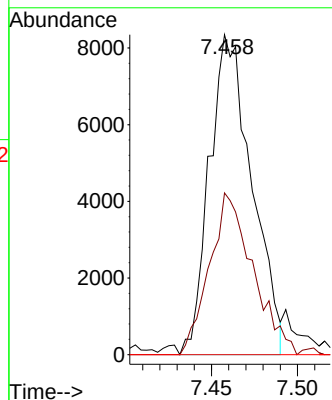
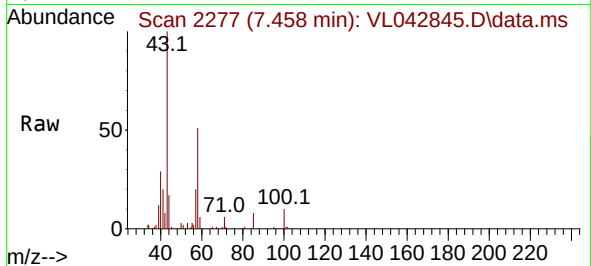




#51
2-Hexanone
Concen: 0.503 ppbv
RT: 7.458 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

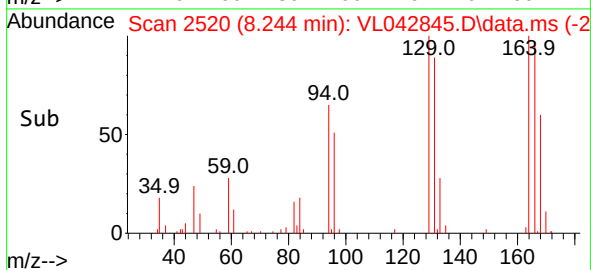
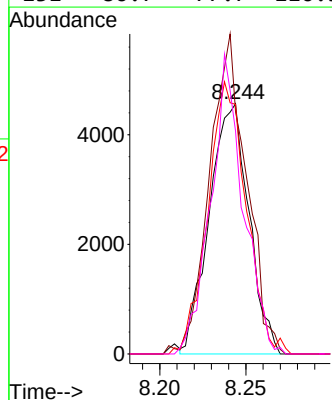
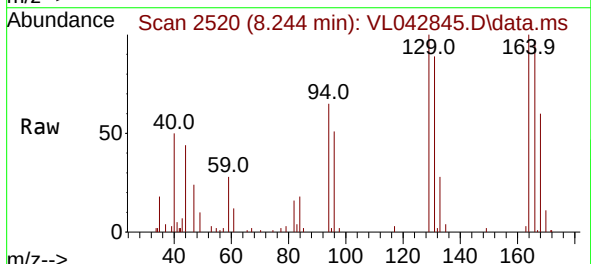
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

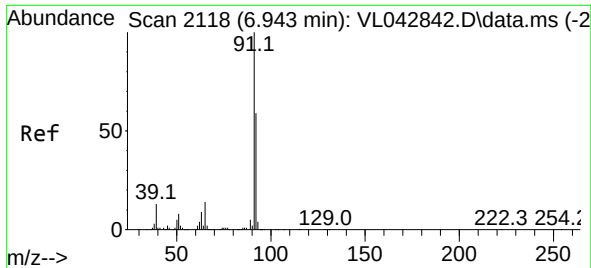
Tgt Ion: 43 Resp: 14329
Ion Ratio Lower Upper
43 100
58 52.3 41.0 61.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 164 Resp: 7304
Ion Ratio Lower Upper
164 100
166 95.1 96.5 144.7#
129 98.0 81.8 122.6
131 86.7 77.7 116.5

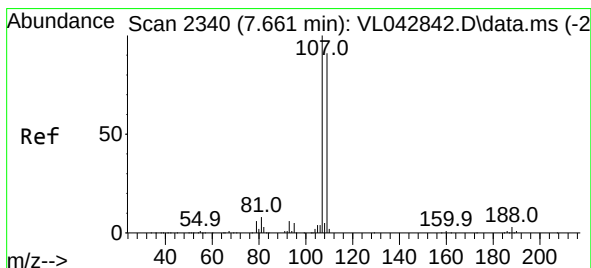
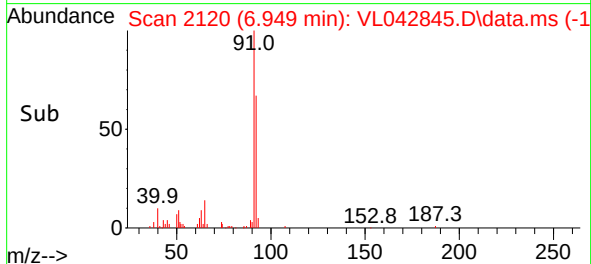
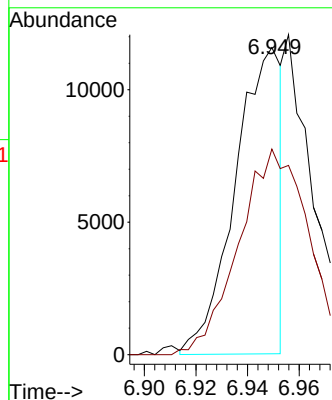
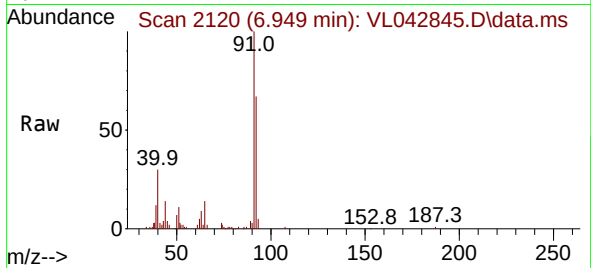




#53
Toluene
Concen: 0.318 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

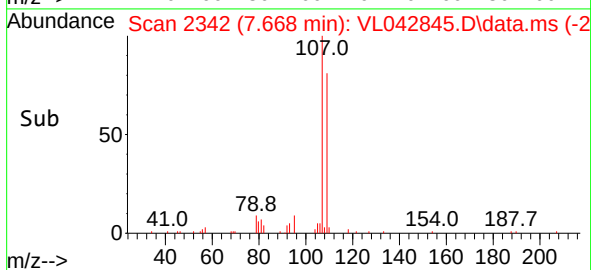
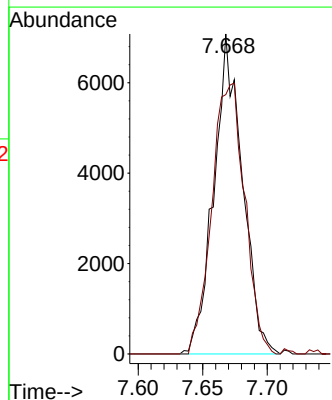
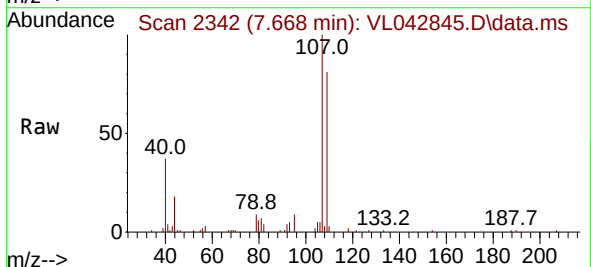
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

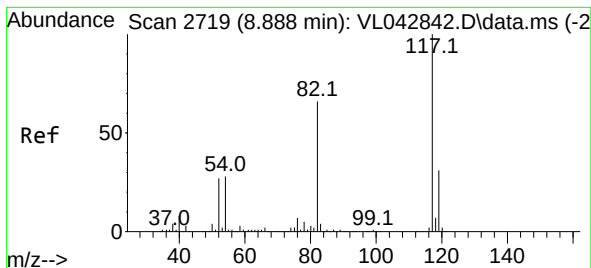
Tgt Ion: 91 Resp: 14358
Ion Ratio Lower Upper
91 100
92 104.5 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 107 Resp: 10873
Ion Ratio Lower Upper
107 100
109 81.0 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 2719

Delta R.T. 0.007 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

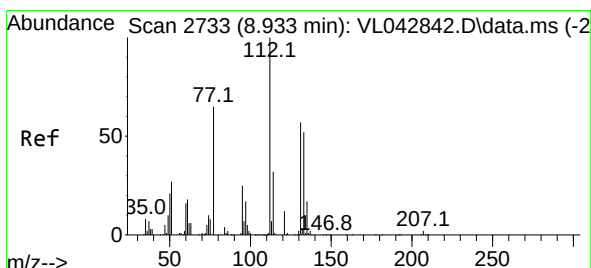
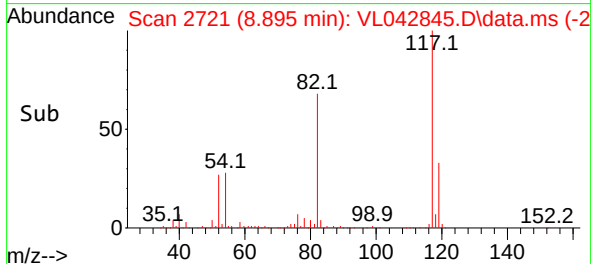
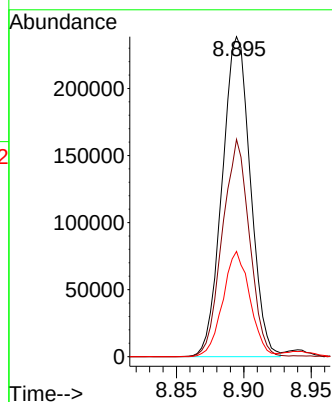
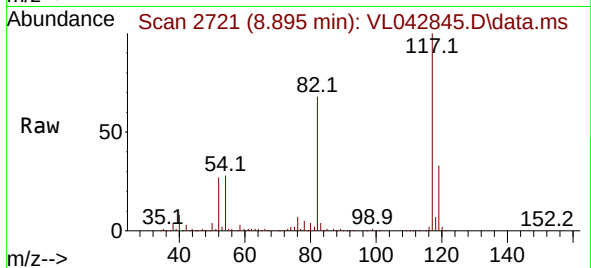
Tgt Ion:117 Resp: 348005

Ion Ratio Lower Upper

117 100

82 65.4 54.6 81.8

119 33.4 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 0.517 ppbv

RT: 8.940 min Scan# 2735

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

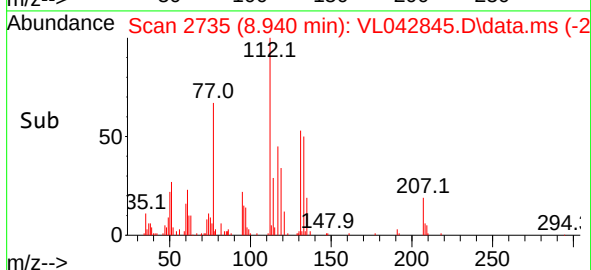
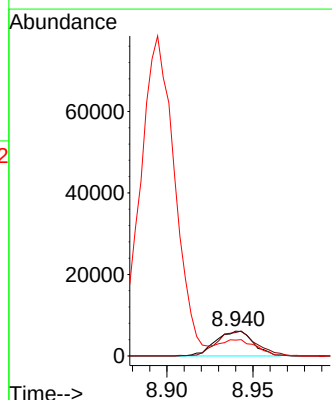
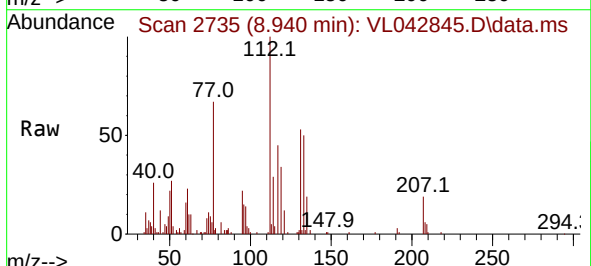
Tgt Ion:131 Resp: 9300

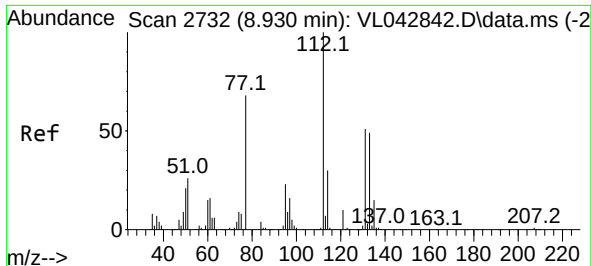
Ion Ratio Lower Upper

131 100

133 102.5 77.4 116.0

119 1250.4 51.2 76.8#

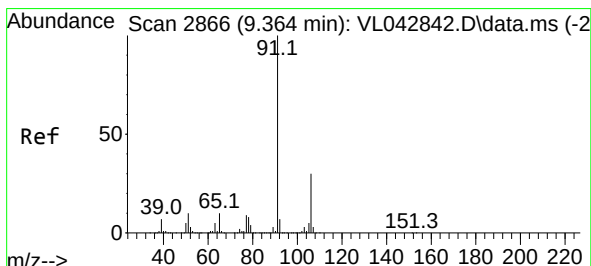
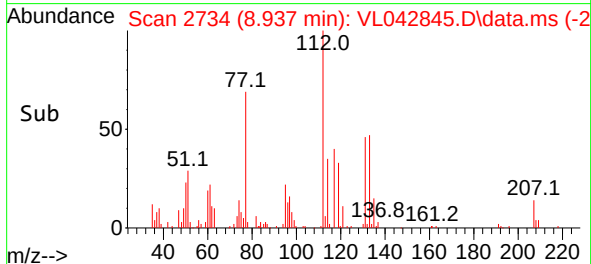
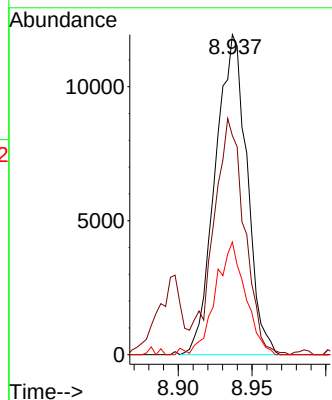
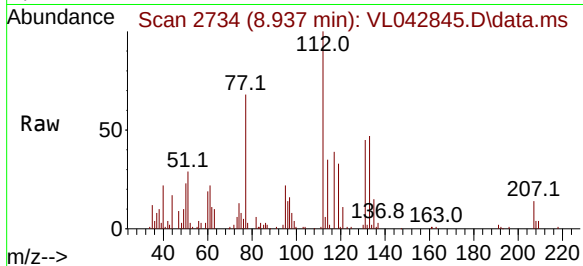




#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

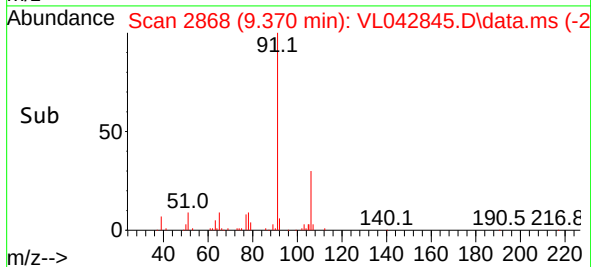
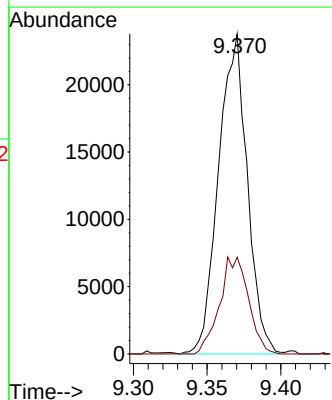
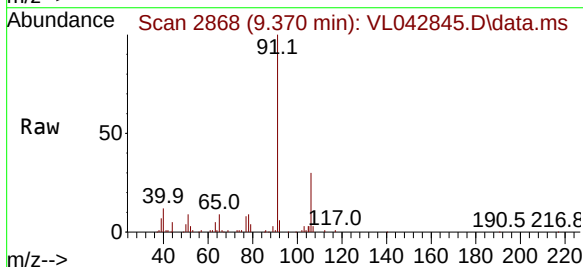
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

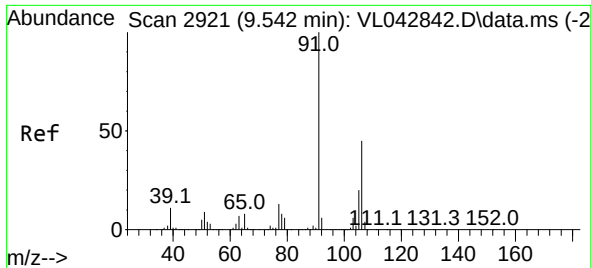
Tgt Ion:112 Resp: 17845
Ion Ratio Lower Upper
112 100
77 67.8 55.5 83.3
114 35.2 27.2 33.2#



#58
Ethyl Benzene
Concen: 0.525 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9

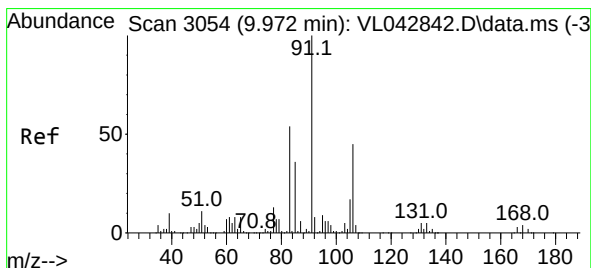
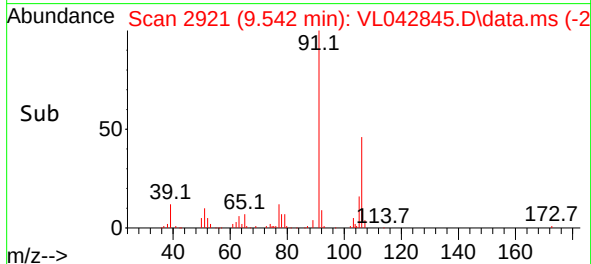
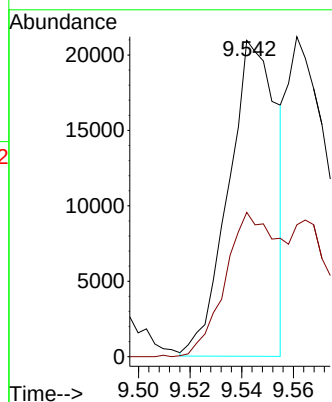
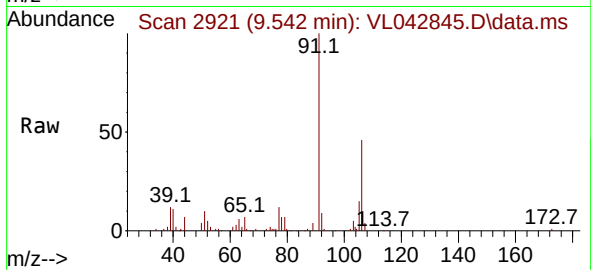




#59
m/p-Xylene
Concen: 0.561 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

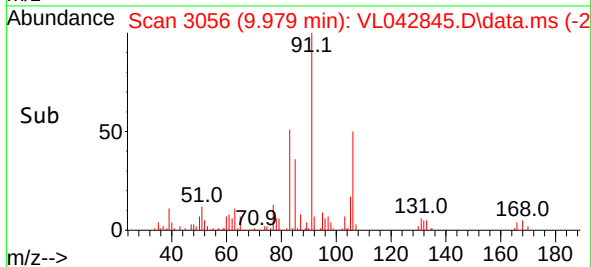
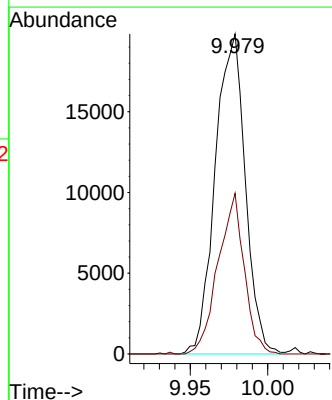
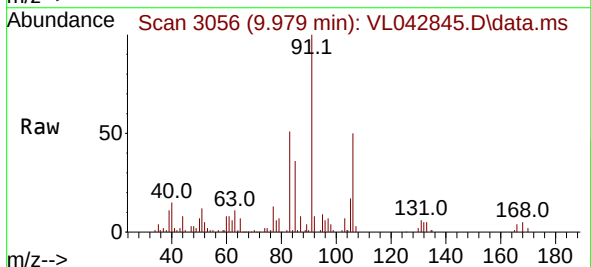
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

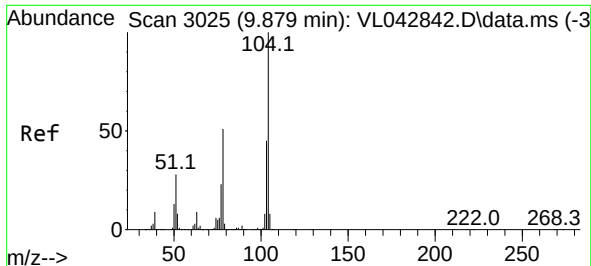
Tgt Ion: 91 Resp: 27059
Ion Ratio Lower Upper
91 100
106 87.4 0.0 0.0#



#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 26662
Ion Ratio Lower Upper
91 100
106 43.8 21.8 65.4

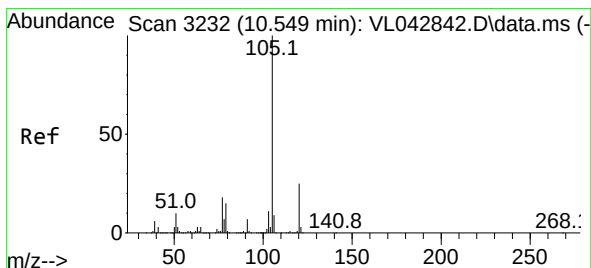
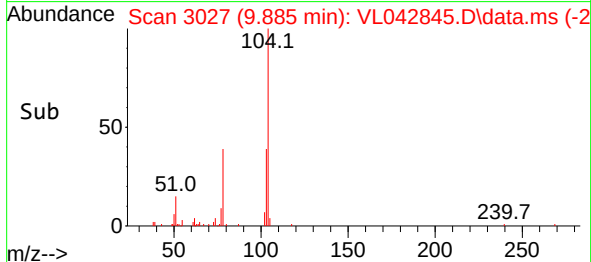
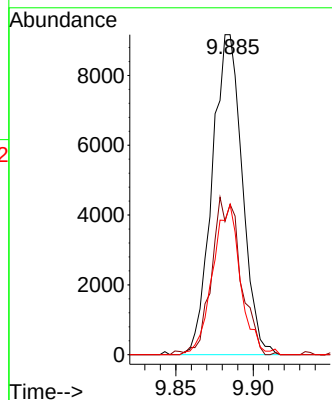
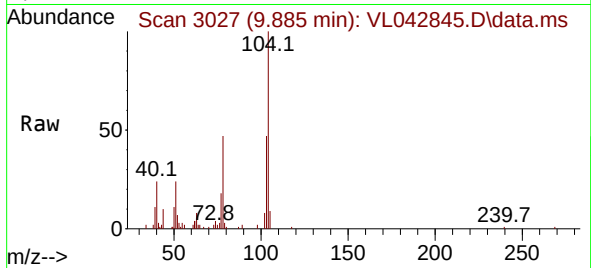




#61
Styrene
Concen: 0.546 ppbv
RT: 9.885 min Scan# 3025
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

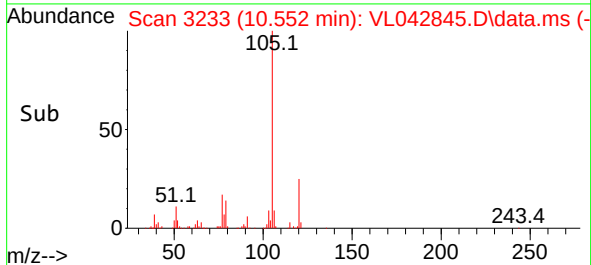
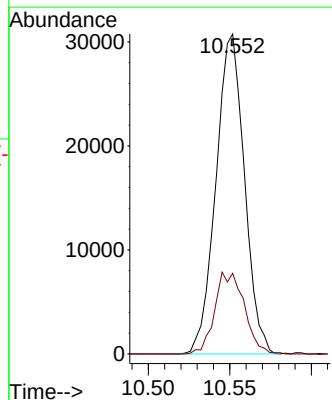
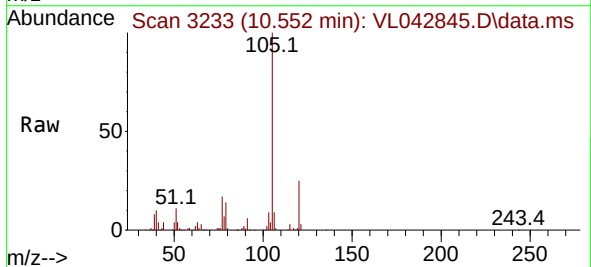
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

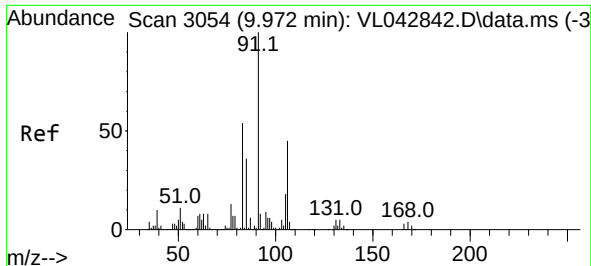
Tgt Ion:104 Resp: 12379
Ion Ratio Lower Upper
104 100
78 47.4 40.6 61.0
103 43.4 37.7 56.5



#62
Isopropylbenzene
Concen: 0.529 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 37401
Ion Ratio Lower Upper
105 100
120 26.5 20.6 30.8

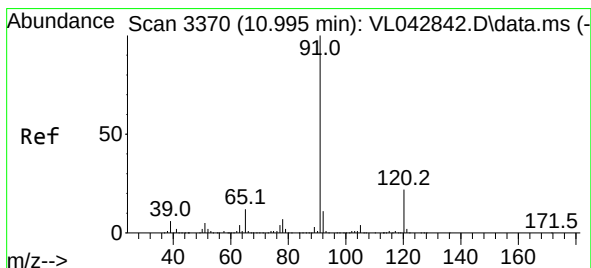
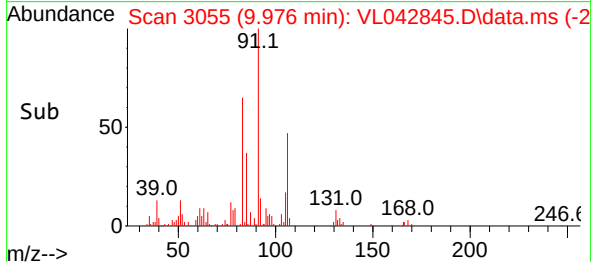
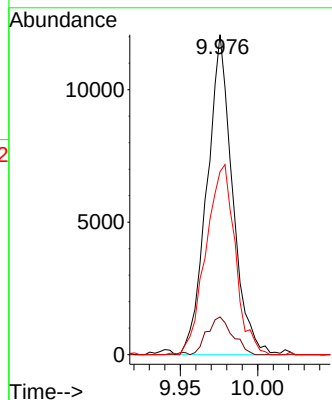
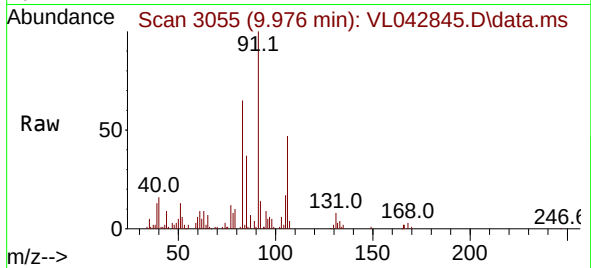




#63
1,1,2,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

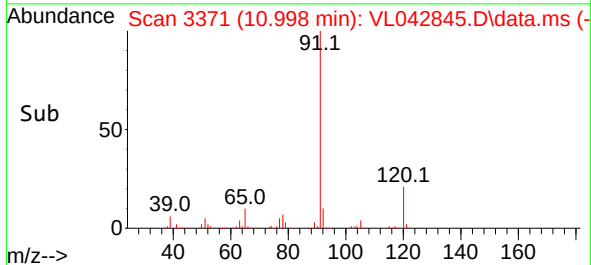
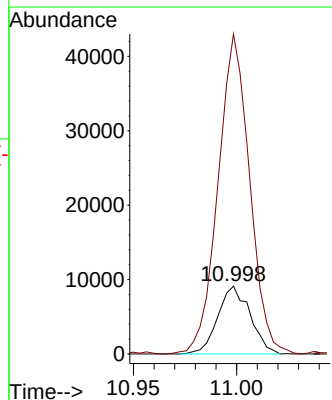
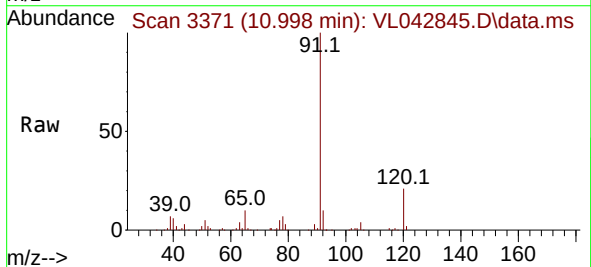
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

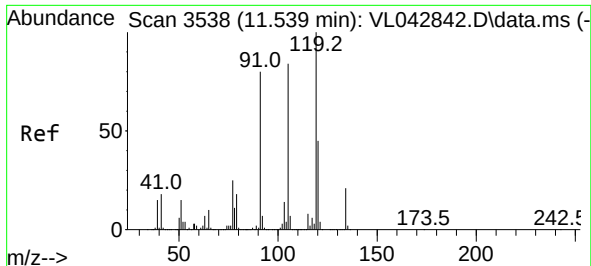
Tgt Ion: 83 Resp: 13828
Ion Ratio Lower Upper
83 100
131 12.0 4.8 14.3
85 68.3 32.3 96.8



#64
n-propylbenzene
Concen: 0.550 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 120 Resp: 9922
Ion Ratio Lower Upper
120 100
91 463.3 375.8 563.6

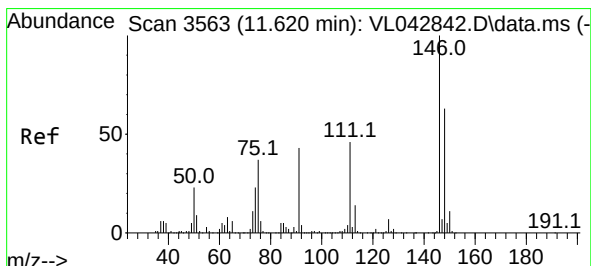
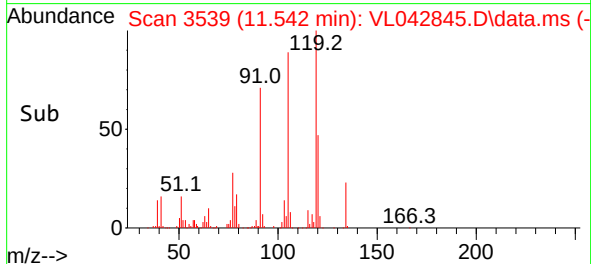
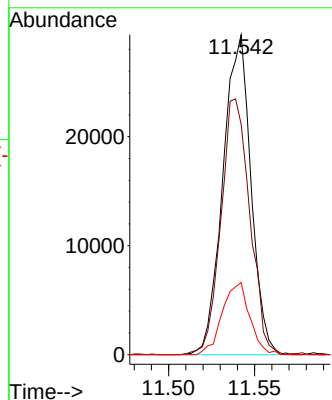
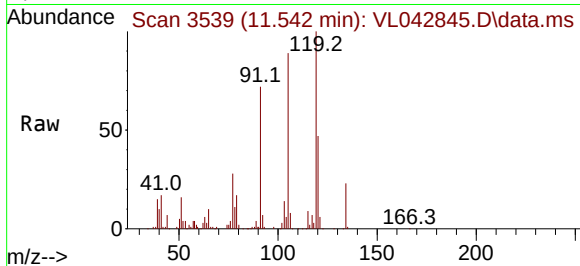




#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

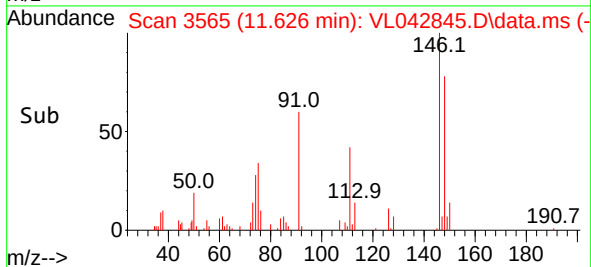
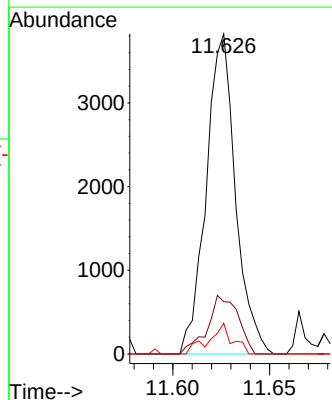
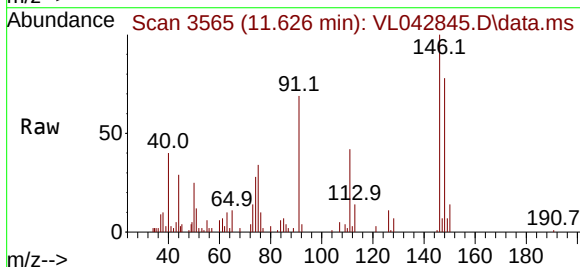
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

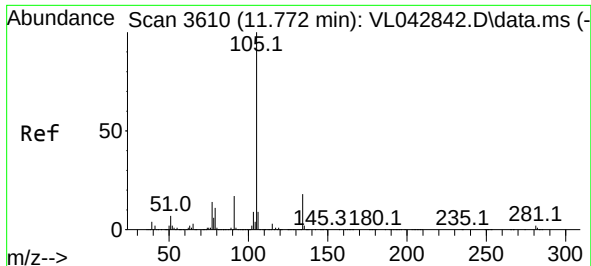
Tgt Ion:119 Resp: 33183
Ion Ratio Lower Upper
119 100
91 82.8 63.9 95.9
134 22.1 17.0 25.4



#66
Benzyl Chloride
Concen: 0.510 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 4039
Ion Ratio Lower Upper
91 100
126 19.0 14.2 21.4
128 7.6 5.0 7.6#

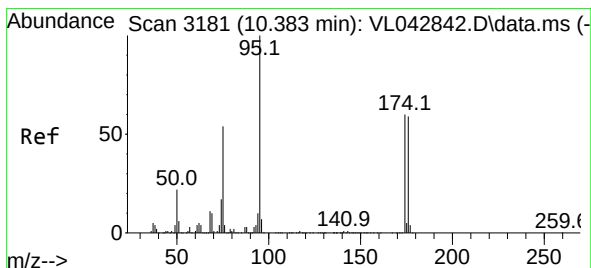
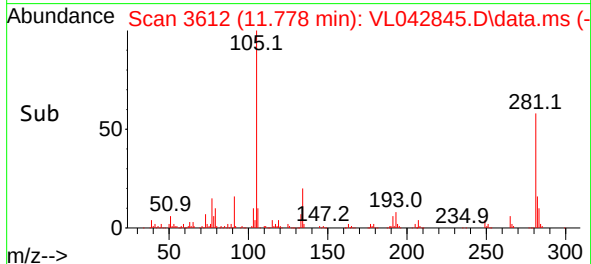
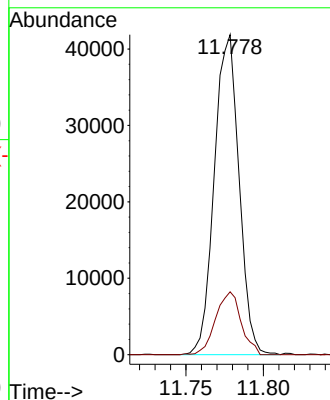
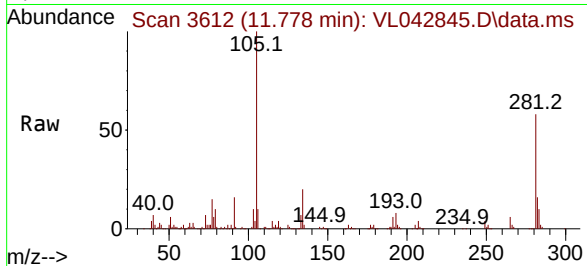




#67
 sec-Butylbenzene
 Concen: 0.530 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

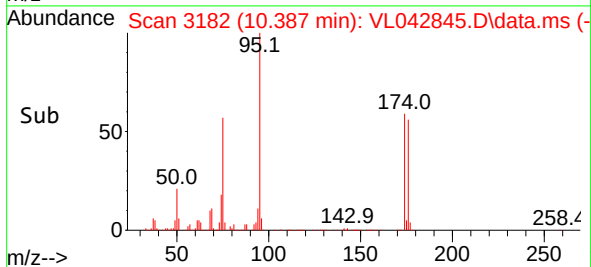
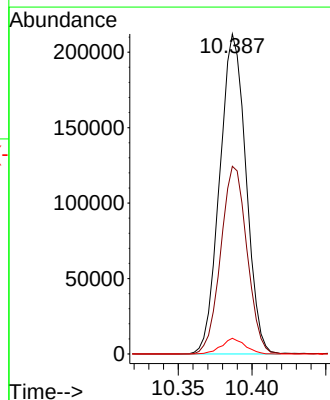
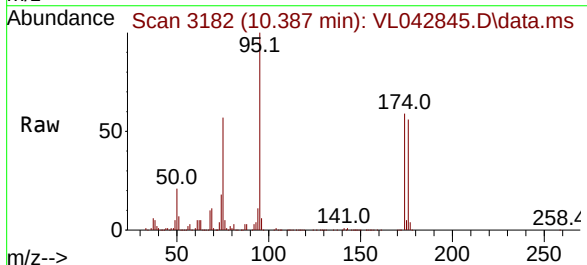
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

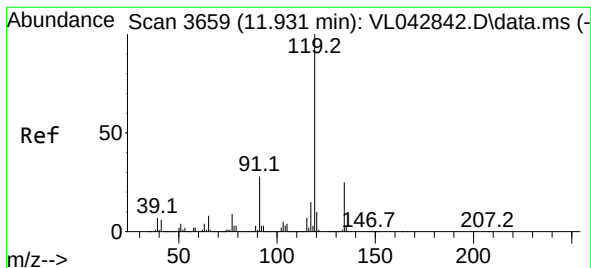
Tgt Ion:105 Resp: 46433
 Ion Ratio Lower Upper
 105 100
 134 20.3 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 95 Resp: 262663
 Ion Ratio Lower Upper
 95 100
 174 58.8 48.4 72.6
 175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.541 ppbv

RT: 11.934 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

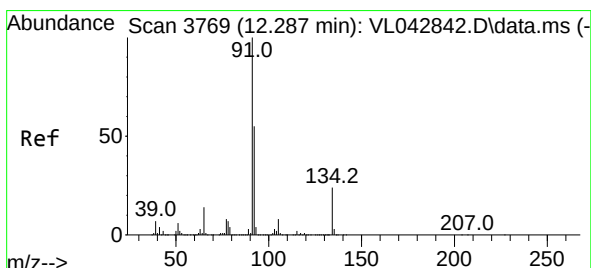
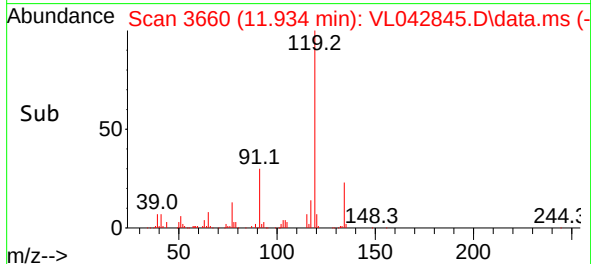
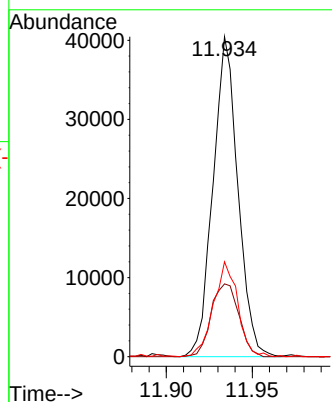
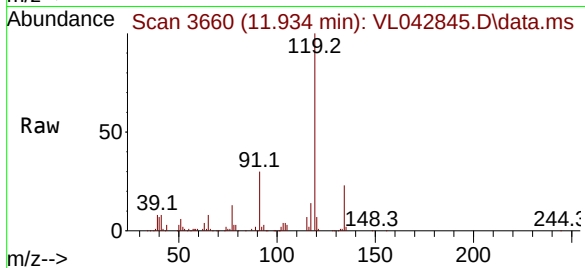
Tgt Ion:119 Resp: 40686

Ion Ratio Lower Upper

119 100

134 25.4 20.6 30.8

91 29.0 22.6 34.0



#70

n-Butylbenzene

Concen: 0.521 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

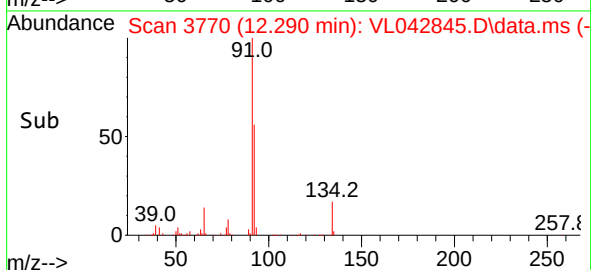
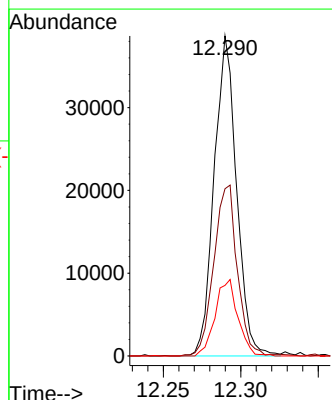
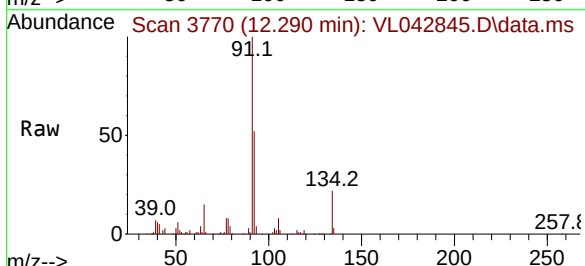
Tgt Ion: 91 Resp: 38867

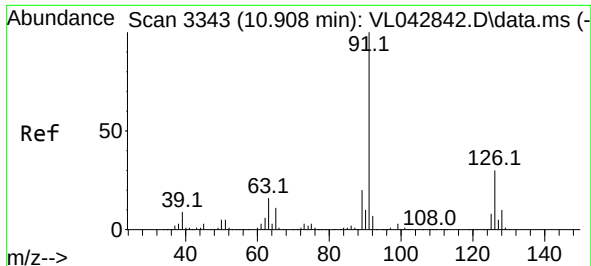
Ion Ratio Lower Upper

91 100

92 56.1 44.6 66.8

134 24.2 19.0 28.4

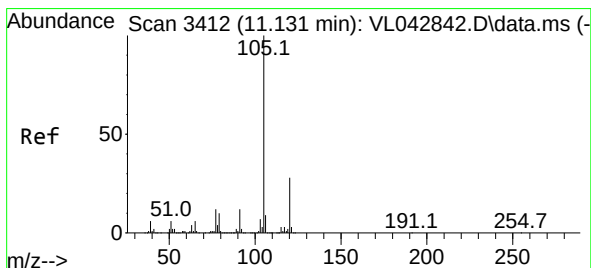
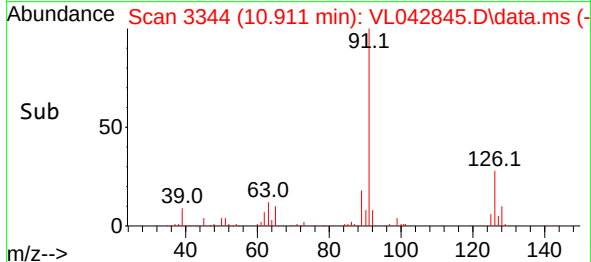
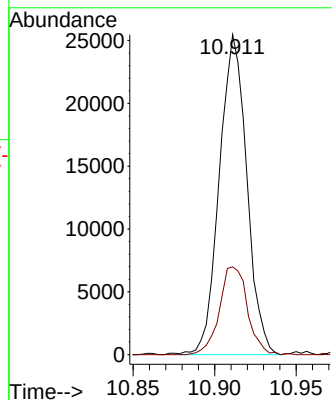
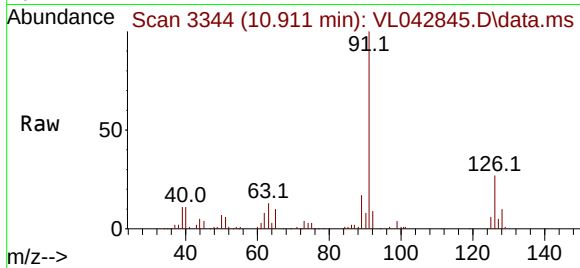




#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

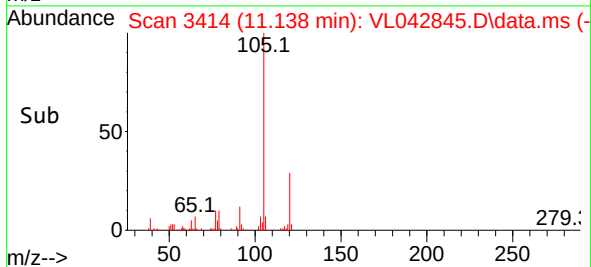
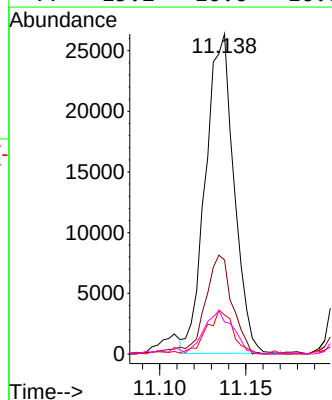
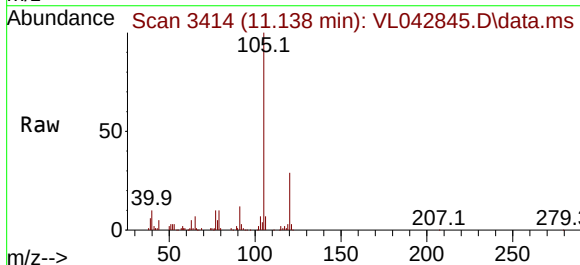
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

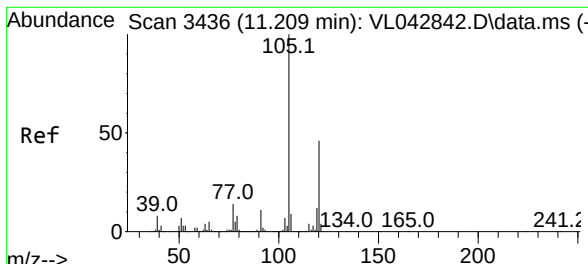
Tgt Ion: 91 Resp: 29736
Ion Ratio Lower Upper
91 100
126 28.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 105 Resp: 30234
Ion Ratio Lower Upper
105 100
120 30.5 23.4 35.2
91 13.8 9.8 14.6
77 15.2 10.6 16.0

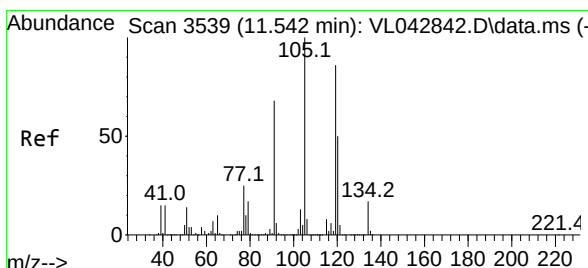
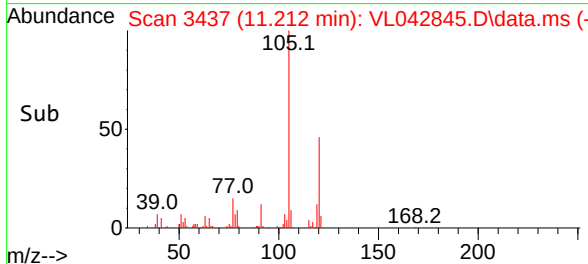
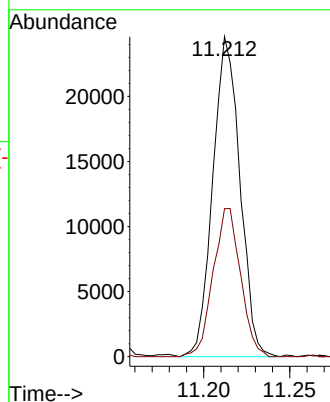
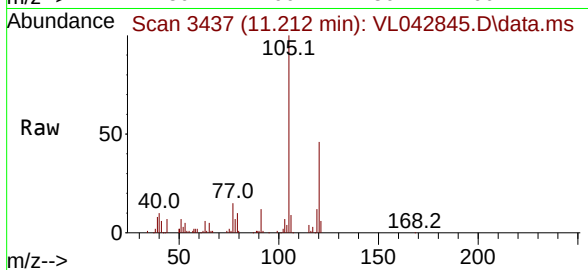




#73
 1,3,5-Trimethylbenzene
 Concen: 0.540 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

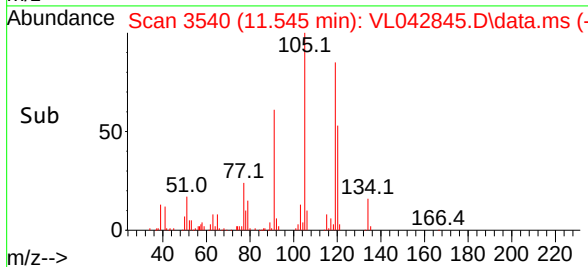
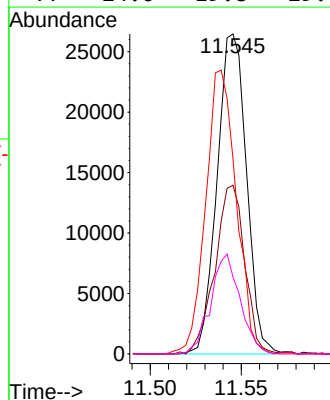
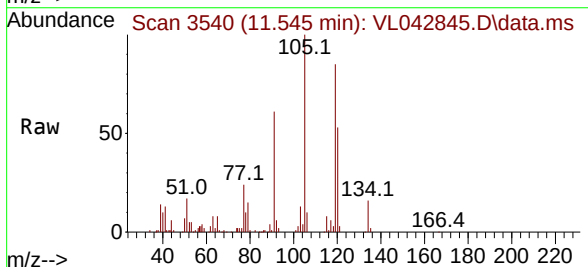
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

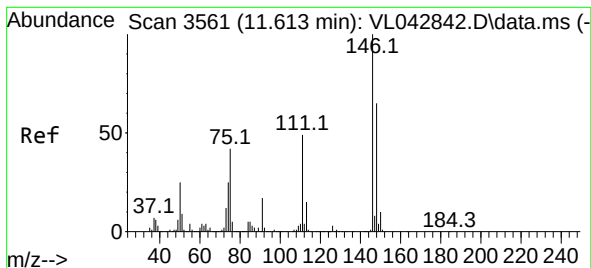
Tgt Ion:105 Resp: 26942
 Ion Ratio Lower Upper
 105 100
 120 46.2 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.543 ppbv
 RT: 11.545 min Scan# 3540
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 29750
 Ion Ratio Lower Upper
 105 100
 120 52.4 39.8 59.6
 91 60.6 54.2 81.4
 77 24.0 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 0.524 ppbv

RT: 11.617 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

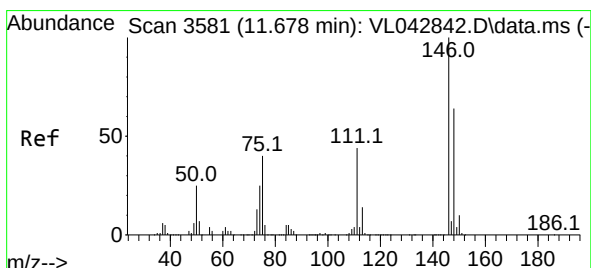
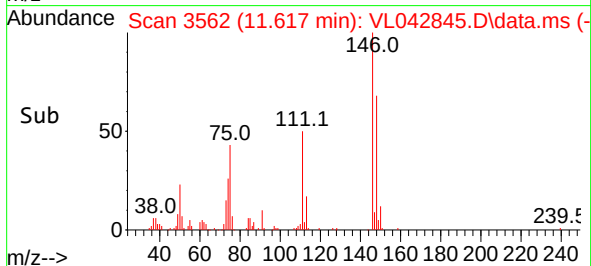
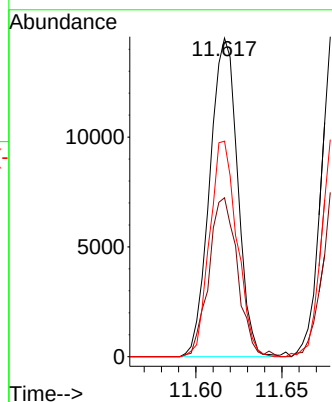
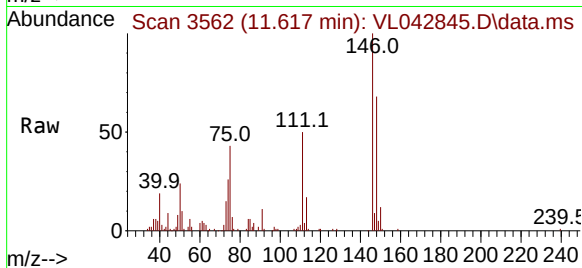
Tgt Ion:146 Resp: 16311

Ion Ratio Lower Upper

146 100

111 51.2 23.9 71.7

148 66.5 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 0.533 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

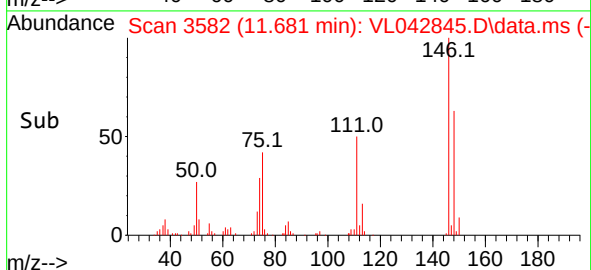
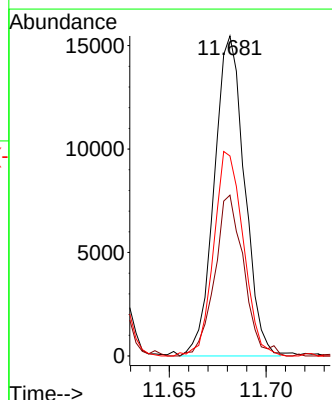
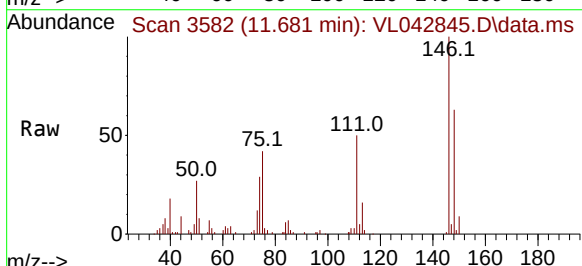
Tgt Ion:146 Resp: 16803

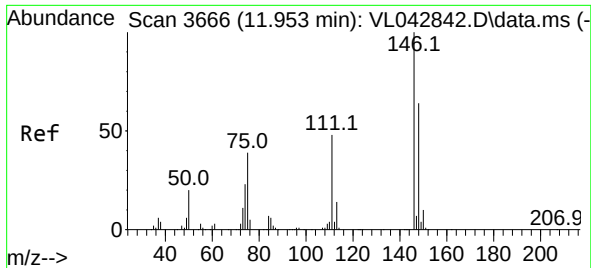
Ion Ratio Lower Upper

146 100

111 48.3 22.7 68.1

148 62.7 31.8 95.3

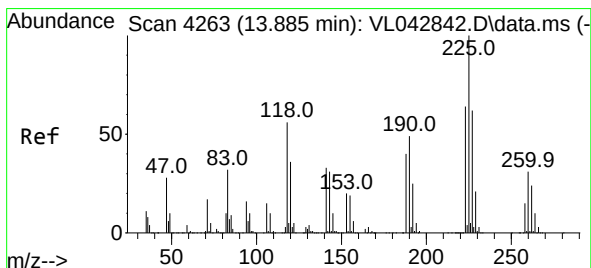
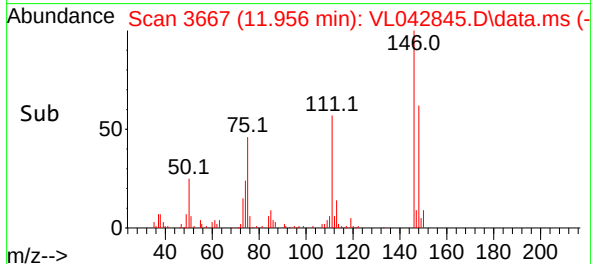
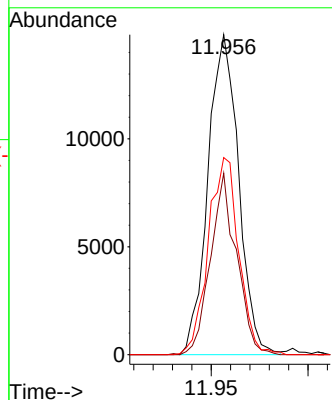
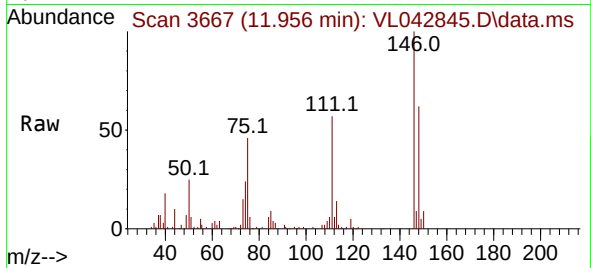




#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3667
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

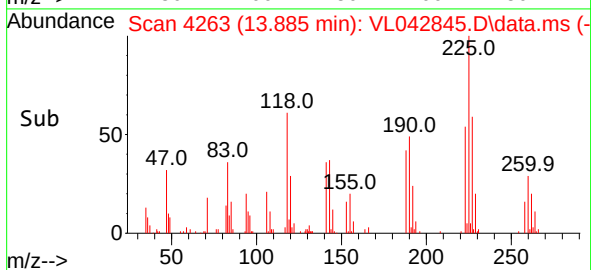
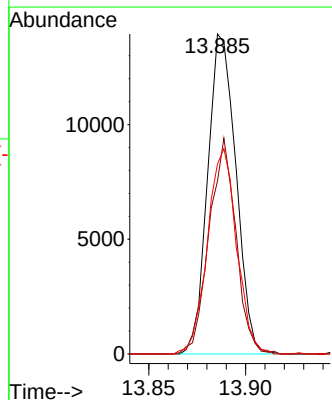
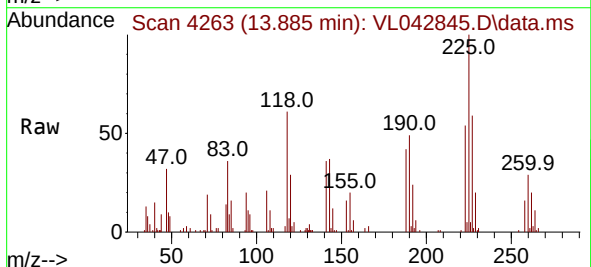
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

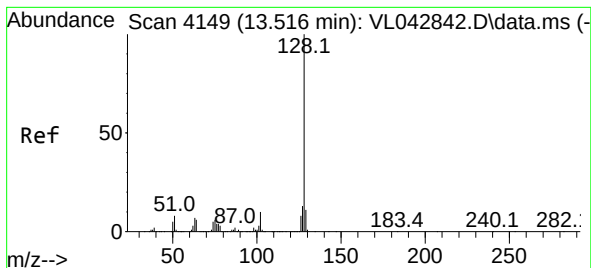
Tgt Ion:146 Resp: 16306
Ion Ratio Lower Upper
146 100
111 48.2 24.6 74.0
148 61.1 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:225 Resp: 14165
Ion Ratio Lower Upper
225 100
223 63.7 51.4 77.2
227 66.2 51.9 77.9





#79

Naphthalene

Concen: 0.491 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

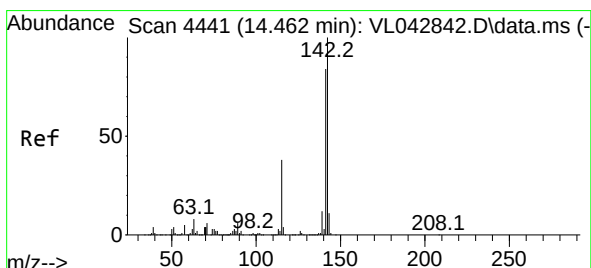
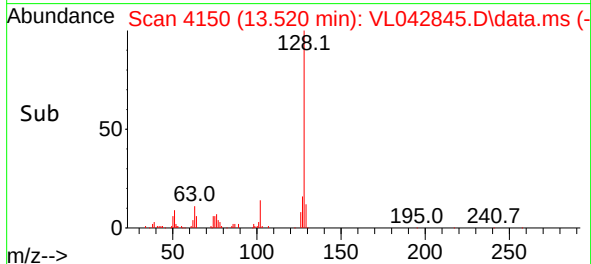
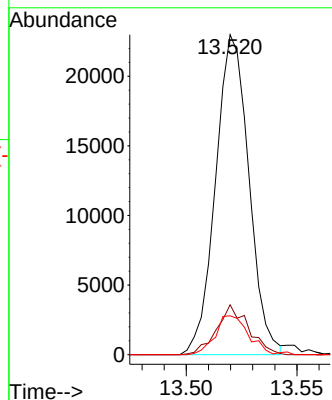
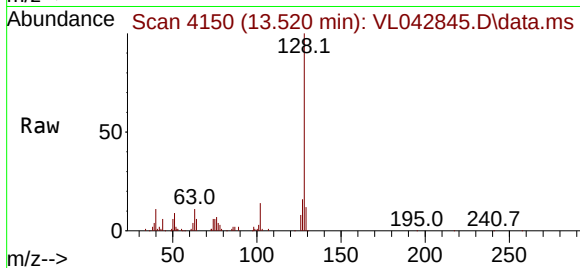
Tgt Ion:128 Resp: 24056

Ion Ratio Lower Upper

128 100

127 15.6 10.6 16.0

129 12.2 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 0.405 ppbv

RT: 14.465 min Scan# 4442

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

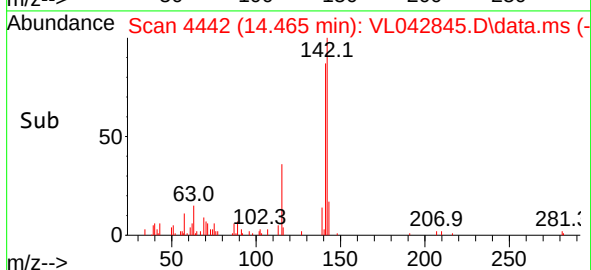
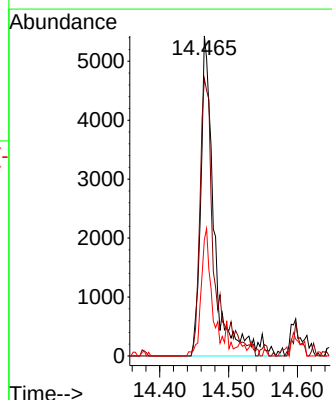
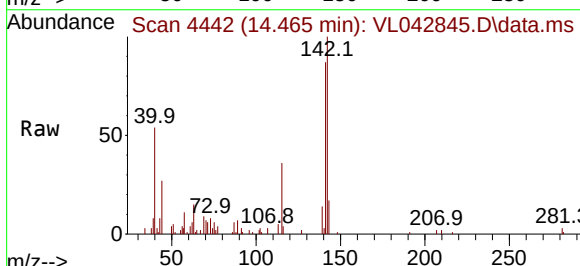
Tgt Ion:142 Resp: 7482

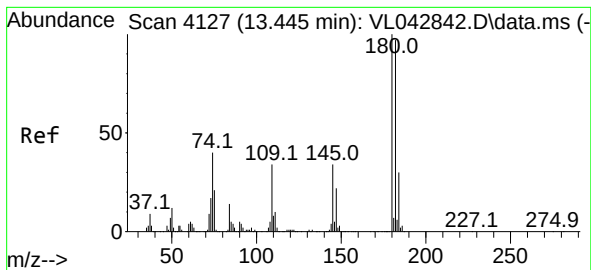
Ion Ratio Lower Upper

142 100

141 90.9 67.0 100.6

115 38.5 30.9 46.3

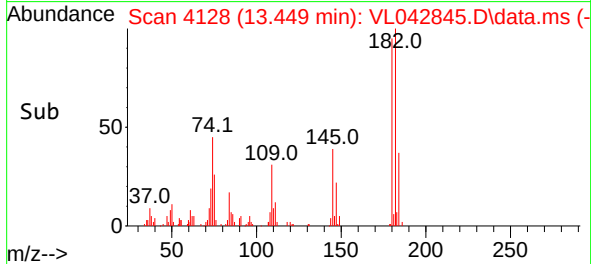
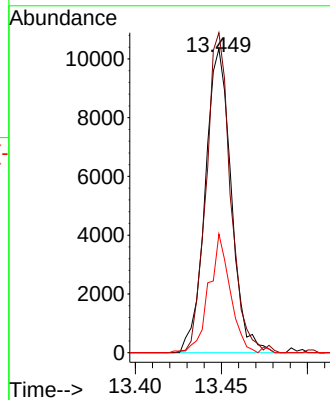
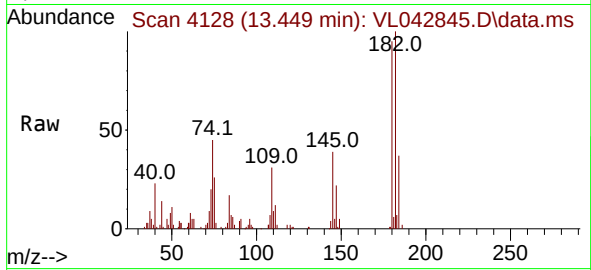




#81
 1,2,4-Trichlorobenzene
 Concen: 0.434 ppbv
 RT: 13.449 min Scan# 4128
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.1	76.9	115.3
184	32.6	24.5	36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1967	0.108	ppbv	89
3) Chlorodifluoromethane	1.479	51	2553	0.127	ppbv	100
4) Chloromethane	1.538	50	1167	0.160	ppbv #	72
5) Vinyl Chloride	1.583	62	790	0.110	ppbv #	86
6) Bromomethane	1.674	94	414	0.144	ppbv #	32
7) Chloroethane	1.709	64	272	0.097	ppbv #	23
8) Dichlorotetrafluoroethane	1.557	85	1898	0.128	ppbv	92
9) Propene	1.486	41	1233	0.142	ppbv #	1
10) Heptane	4.991	43	560	0.024	ppbv #	1
11) Trichlorofluoromethane	1.557	101	307	0.017	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	1758	0.123	ppbv	93
13) Ethanol	1.890	45	1584	1.847	ppbv	80
14) Bromoethene	1.787	108	602	0.117	ppbv #	30
15) Acetone	1.839	43	3411	0.208	ppbv #	72
16) 1,3-Butadiene	1.612	39	795	0.107	ppbv #	16
17) tert-Butyl alcohol	2.046	59	2697	0.139	ppbv #	64
18) 1,1-Dichloroethene	2.039	96	964	0.154	ppbv	92
19) Isopropyl Alcohol	1.890	45	1584	0.162	ppbv #	76
20) Methylene Chloride	2.065	84	2577	0.376	ppbv	92
21) Allyl Chloride	2.098	41	2198	0.190	ppbv #	67
22) trans-1,2-Dichloroethene	2.039	96	964	0.138	ppbv	86
23) Vinyl Acetate	2.463	43	3002	0.139	ppbv #	69
24) 1,1-Dichloroethane	2.415	63	1879	0.130	ppbv #	95
25) Ethyl Acetate	2.836	43	1206	0.030	ppbv #	74
26) Hexane	2.836	57	2223	0.122	ppbv #	3
27) Carbon Disulfide	2.156	76	965	0.054	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	1300	0.139	ppbv #	1
29) Chloroform	2.855	83	2962	0.113	ppbv	98
30) Cyclohexane	3.865	84	835	0.052	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	1839	0.101	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	2627	0.095	ppbv	86
34) 2-Butanone	2.564	43	2970	0.113	ppbv	93
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
36) Benzene	3.661	78	2430	0.065	ppbv	97
37) 1,2-Dichloroethane	3.230	62	576	0.029	ppbv #	47
38) Trichloroethene	4.557	130	624	0.037	ppbv #	79
39) 1,2-Dichloropropane	3.962	63	96098	7.036	ppbv #	26
40) 1,4-Dioxane	4.625	88	693	0.108	ppbv #	17
41) Tetrahydrofuran	3.049	42	78	0.005	ppbv #	36
42) Bromodichloromethane	4.489	83	756	0.026	ppbv #	27
43) Methyl Methacrylate	4.894	69	1289	0.084	ppbv #	61
44) 2,2,4-Trimethylpentane	4.645	57	2178	0.035	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	486	0.028	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

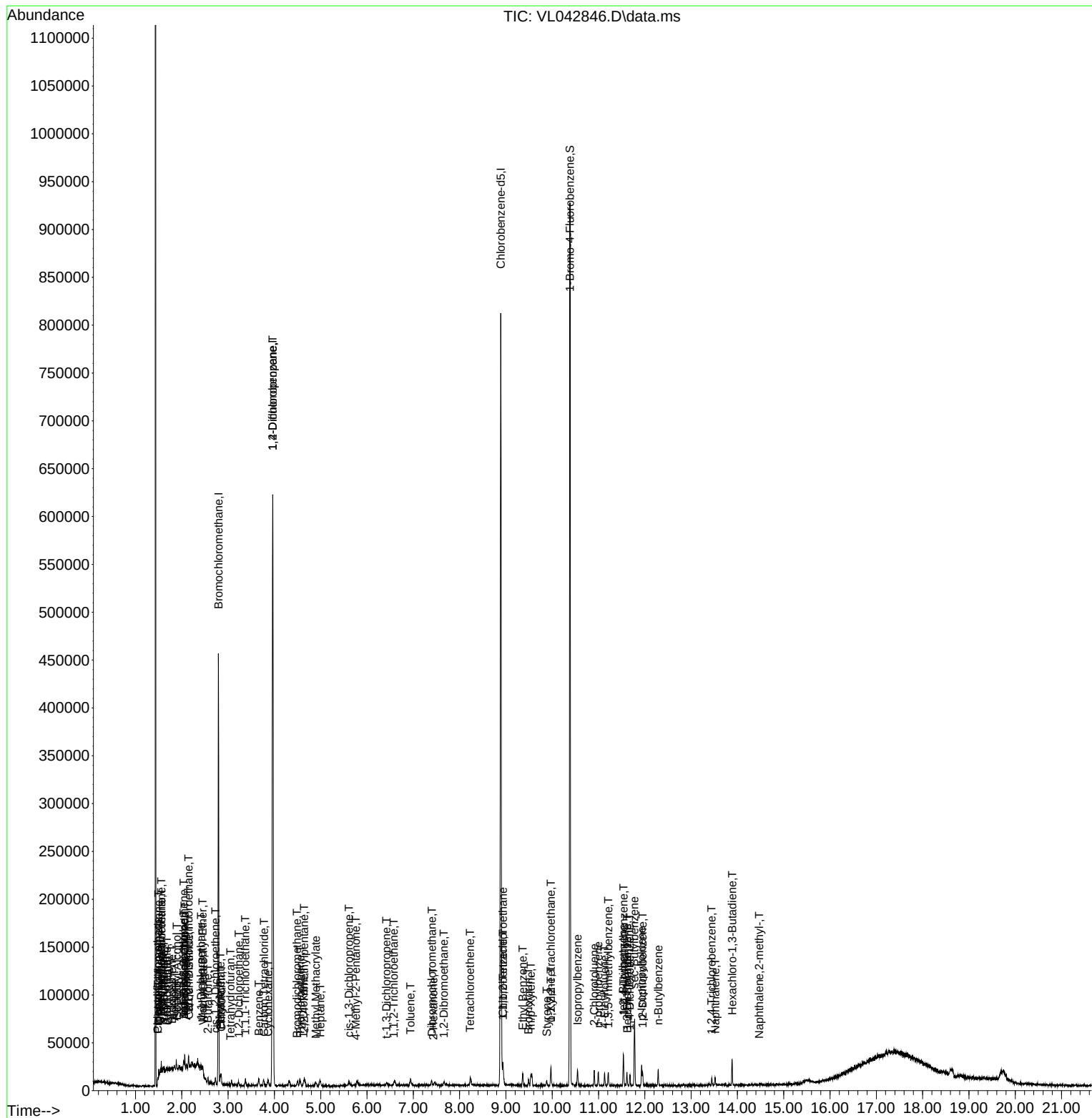
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	1454	0.067	ppbv #	85
47) 1,1,2-Trichloroethane	6.580	97	260	0.018	ppbv #	20
48) Dibromochloromethane	7.399	129	2052	0.088	ppbv	74
49) Bromoform	9.487	173	1909	0.099	ppbv	91
50) 4-Methyl-2-Pentanone	5.758	43	266	0.007	ppbv #	38
51) 2-Hexanone	7.432	43	57	0.002	ppbv #	27
52) Tetrachloroethene	8.228	164	425	0.031	ppbv #	56
53) Toluene	6.940	91	1918	0.043	ppbv #	21
54) 1,2-Dibromoethane	7.658	107	828	0.039	ppbv #	72
56) 1,1,1,2-Tetrachloroethane	8.937	131	573	0.032	ppbv #	1
57) Chlorobenzene	8.933	112	3936	0.120	ppbv #	92
58) Ethyl Benzene	9.361	91	6413	0.105	ppbv	97
59) m/p-Xylene	9.539	91	4356	0.091	ppbv #	100
60) o-Xylene	9.972	91	5090	0.106	ppbv	91
61) Styrene	9.882	104	2306	0.103	ppbv	98
62) Isopropylbenzene	10.545	105	7444	0.106	ppbv	94
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
64) n-propylbenzene	10.995	120	1372	0.077	ppbv #	36
65) tert-Butylbenzene	11.532	119	6442	0.104	ppbv	88
66) Benzyl Chloride	11.620	91	276	0.035	ppbv #	65
67) sec-Butylbenzene	11.772	105	9332	0.107	ppbv #	91
69) p-Isopropyltoluene	11.934	119	7360	0.099	ppbv #	93
70) n-Butylbenzene	12.290	91	6458	0.087	ppbv	95
71) 2-Chlorotoluene	10.908	91	5660	0.104	ppbv	100
72) 4-Ethyltoluene	11.131	105	5621	0.097	ppbv #	88
73) 1,3,5-Trimethylbenzene	11.212	105	5297	0.107	ppbv	93
74) 1,2,4-Trimethylbenzene	11.542	105	5786	0.106	ppbv #	83
75) 1,3-Dichlorobenzene	11.617	146	3112	0.101	ppbv	93
76) 1,4-Dichlorobenzene	11.675	146	2717	0.087	ppbv	92
77) 1,2-Dichlorobenzene	11.953	146	3151	0.104	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	2639	0.106	ppbv	95
79) Naphthalene	13.520	128	3670	0.075	ppbv #	94
80) Naphthalene,2-methyl-	14.471	142	682	0.037	ppbv #	82
81) 1,2,4-Trichlorobenzene	13.442	180	1342	0.054	ppbv	90

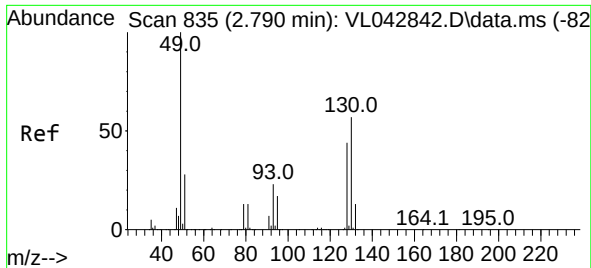
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 835

Delta R.T. 0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

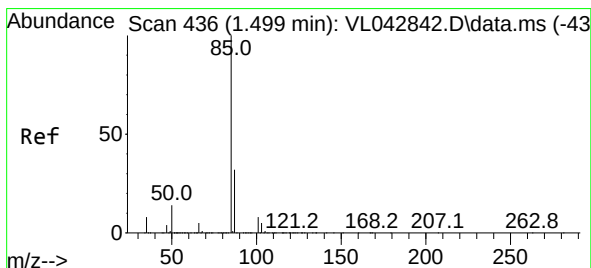
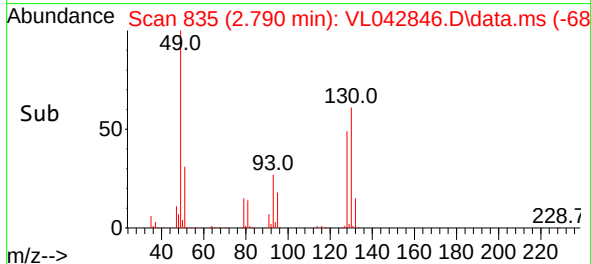
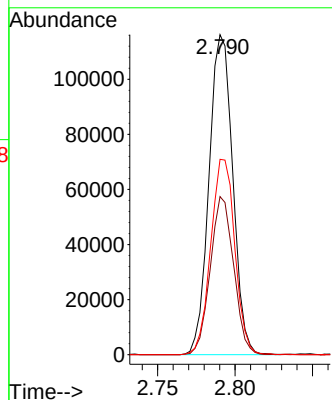
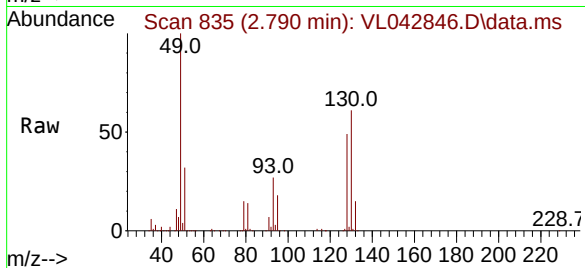
Tgt Ion: 49 Resp: 123711

Ion Ratio Lower Upper

49 100

128 48.6 23.7 71.1

130 62.1 30.6 91.6



#2

Dichlorodifluoromethane

Concen: 0.108 ppbv

RT: 1.499 min Scan# 436

Delta R.T. -0.000 min

Lab File: VL042846.D

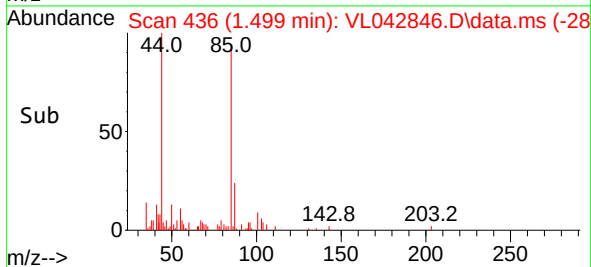
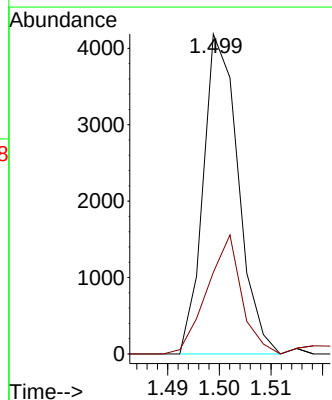
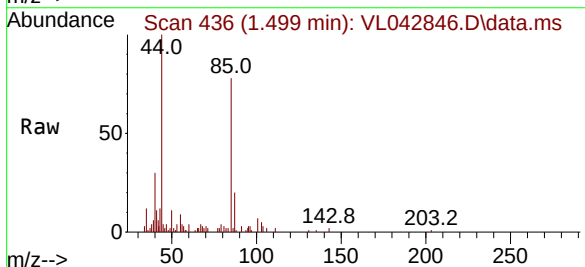
Acq: 13 Aug 2025 10:53

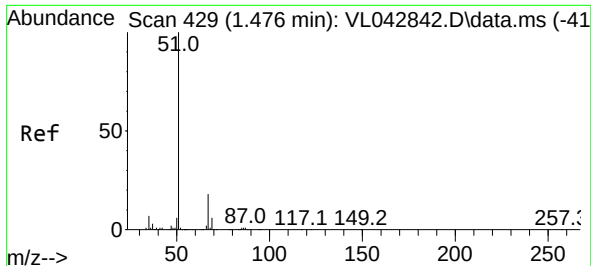
Tgt Ion: 85 Resp: 1967

Ion Ratio Lower Upper

85 100

87 25.5 25.3 37.9

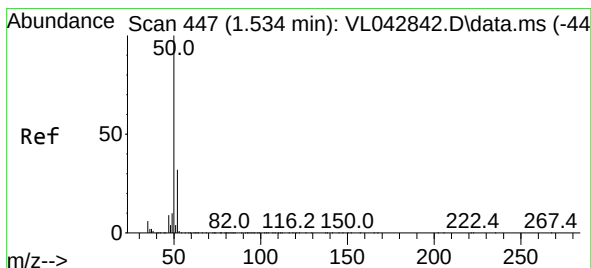
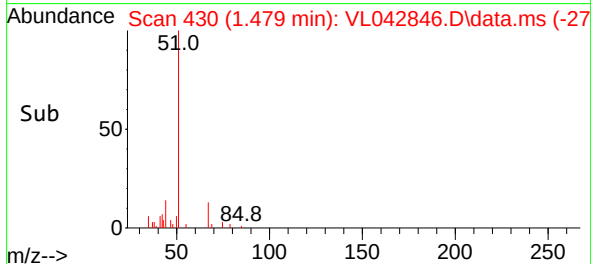
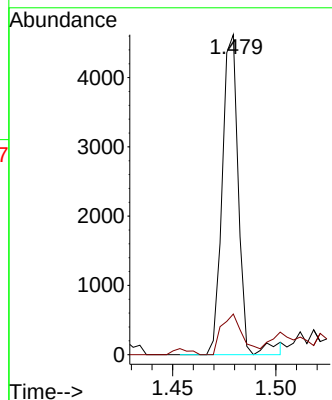
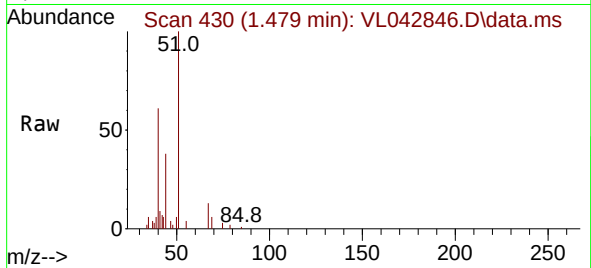




#3
Chlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

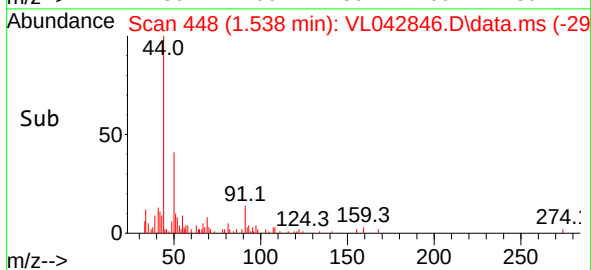
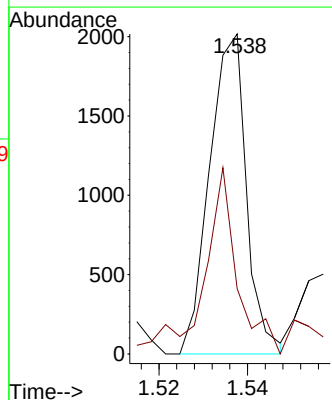
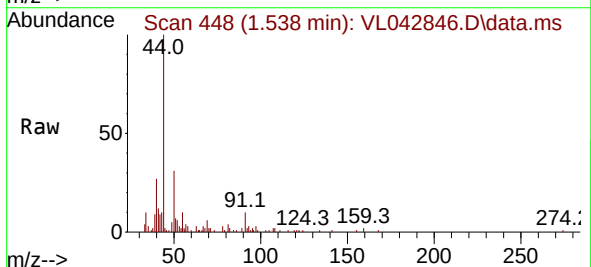
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

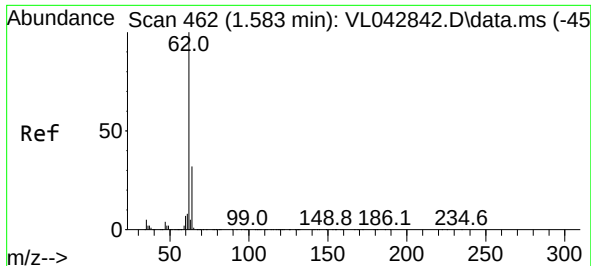
Tgt Ion: 51 Resp: 2553
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#4
Chloromethane
Concen: 0.160 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 50 Resp: 1167
Ion Ratio Lower Upper
50 100
52 16.8 25.9 38.9#

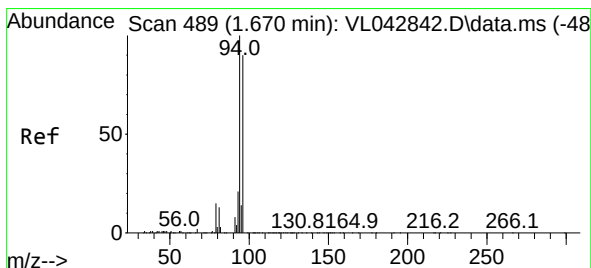
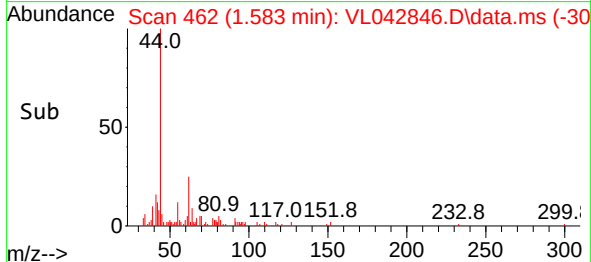
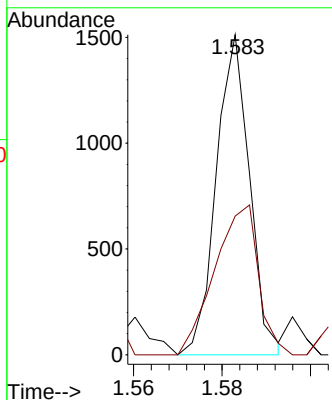
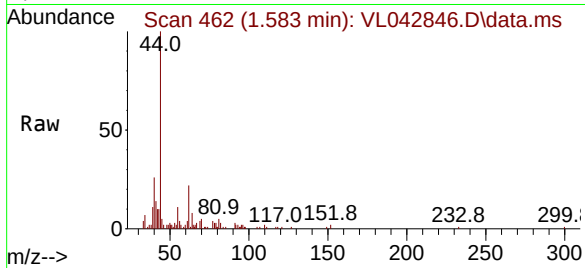




#5
 Vinyl Chloride
 Concen: 0.110 ppbv
 RT: 1.583 min Scan# 410
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

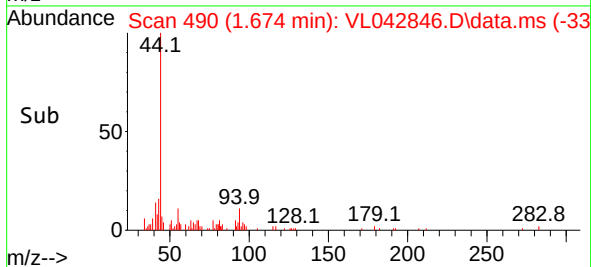
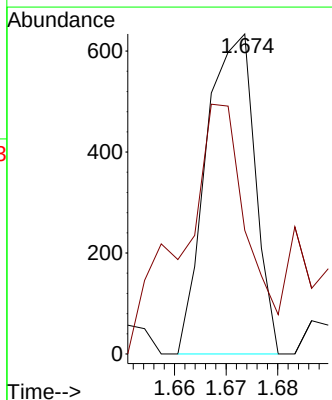
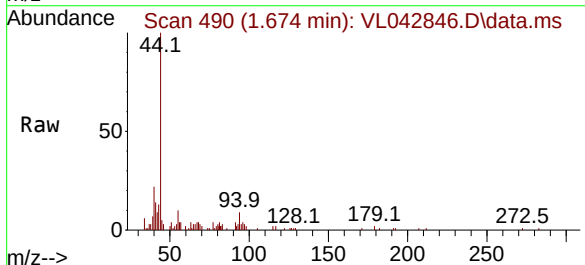
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

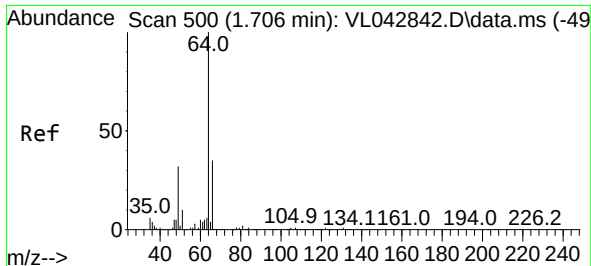
Tgt Ion: 62 Resp: 790
 Ion Ratio Lower Upper
 62 100
 64 39.7 25.4 38.2#



#6
 Bromomethane
 Concen: 0.144 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 94 Resp: 414
 Ion Ratio Lower Upper
 94 100
 96 26.3 72.1 108.1#

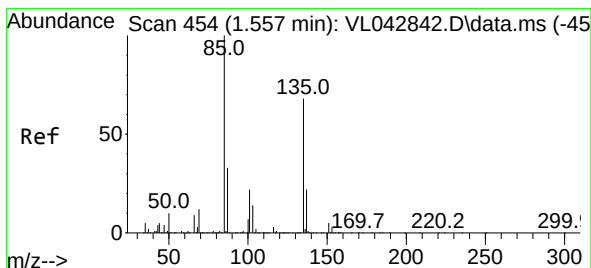
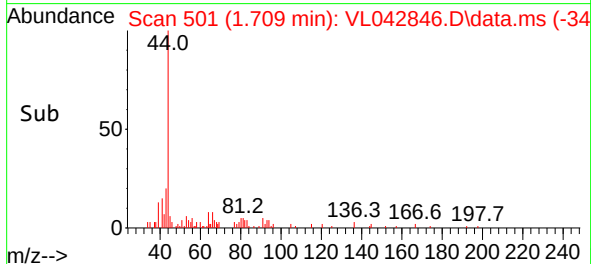
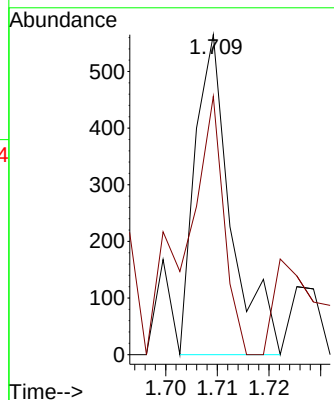
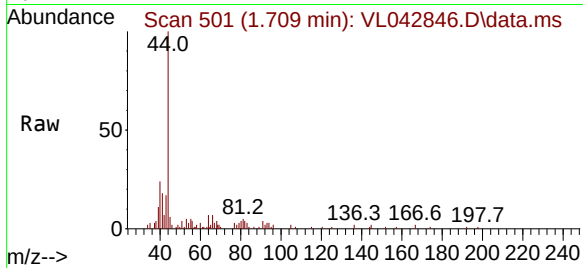




#7
Chloroethane
Concen: 0.097 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

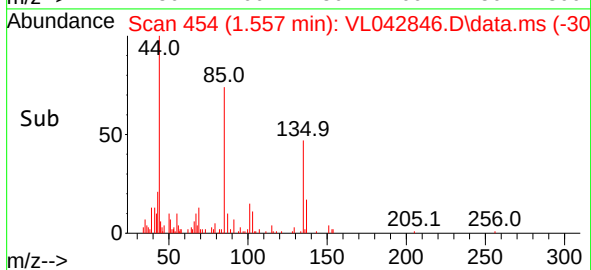
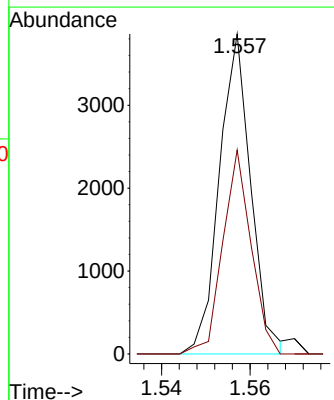
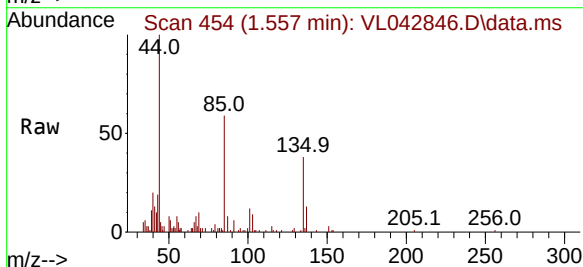
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

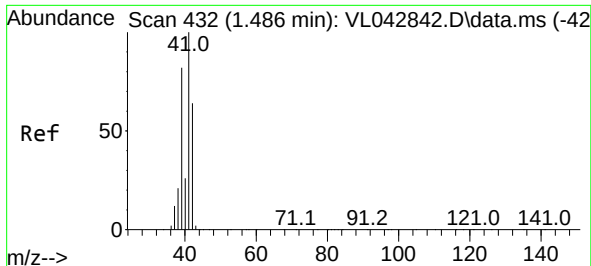
Tgt Ion: 64 Resp: 272
Ion Ratio Lower Upper
64 100
66 80.7 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.128 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1898
Ion Ratio Lower Upper
85 100
135 57.6 51.2 76.8

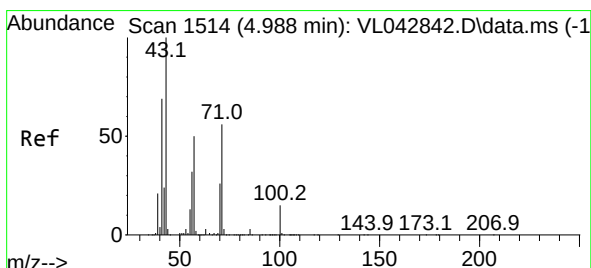
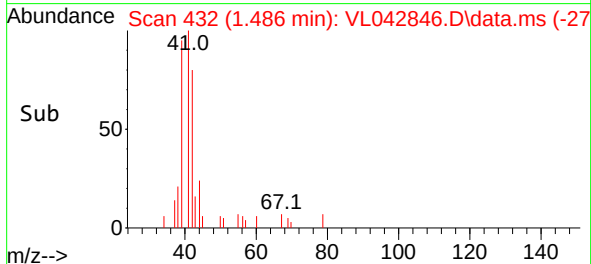
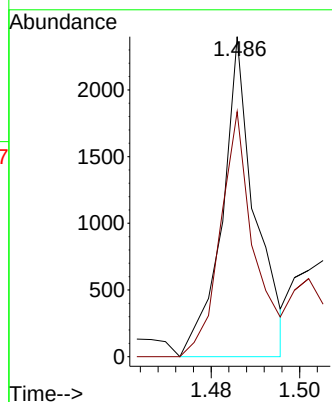
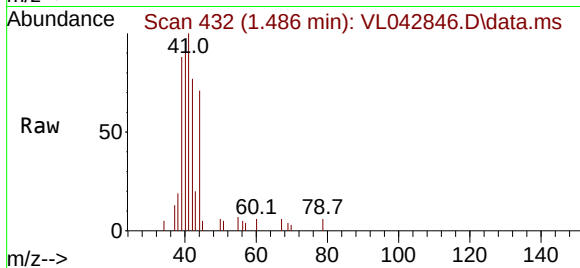




#9
Propene
Concen: 0.142 ppbv
RT: 1.486 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

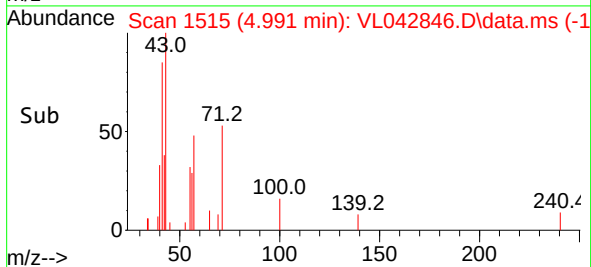
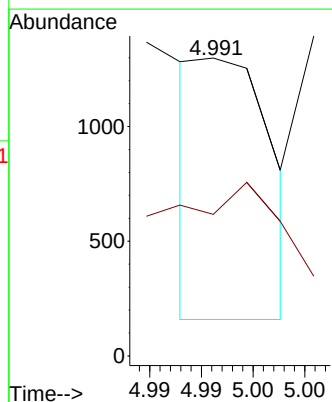
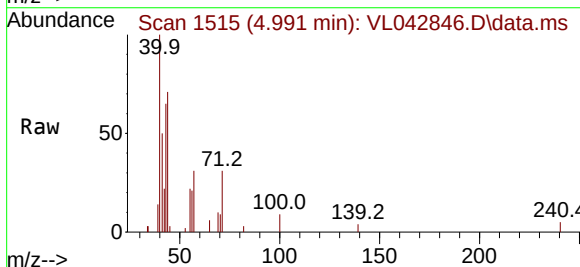
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

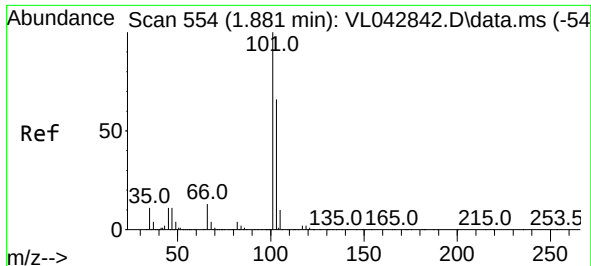
Tgt Ion: 41 Resp: 1233
Ion Ratio Lower Upper
41 100
42 148.2 53.0 79.4#



#10
Heptane
Concen: 0.024 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 560
Ion Ratio Lower Upper
43 100
57 281.8 41.4 62.0#

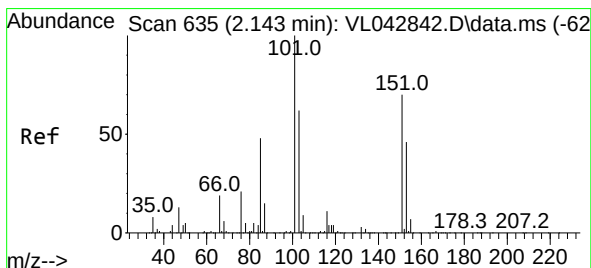
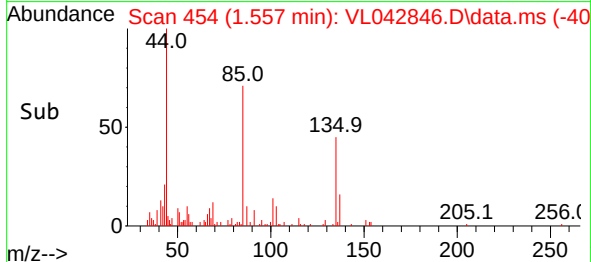
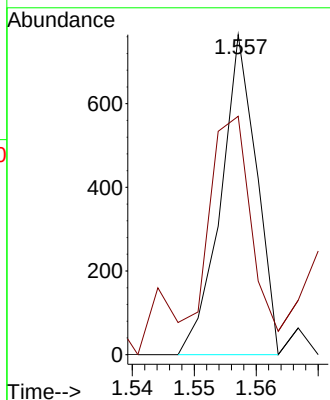
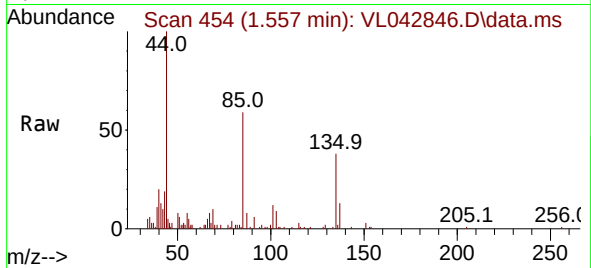




#11
 Trichlorofluoromethane
 Concen: 0.017 ppbv
 RT: 1.557 min Scan# 41
 Delta R.T. -0.324 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

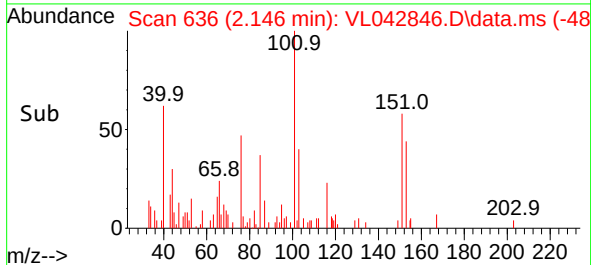
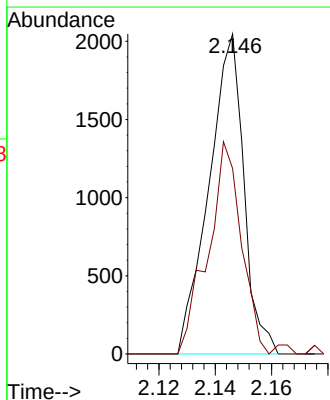
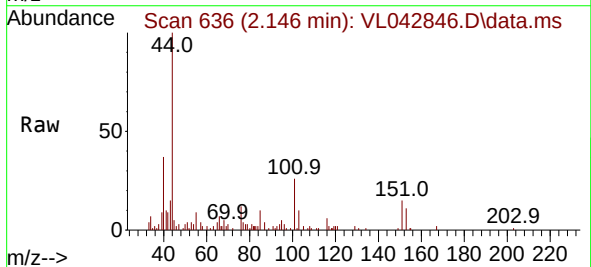
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

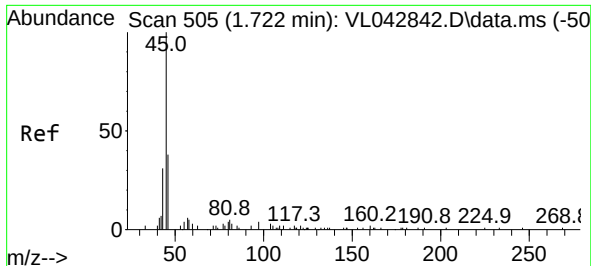
Tgt Ion:101 Resp: 307
 Ion Ratio Lower Upper
 101 100
 103 67.2 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.123 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion:101 Resp: 1758
 Ion Ratio Lower Upper
 101 100
 151 64.7 56.4 84.6

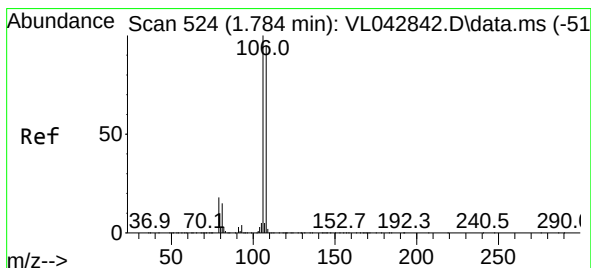
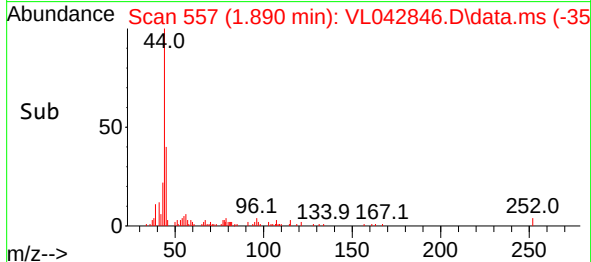
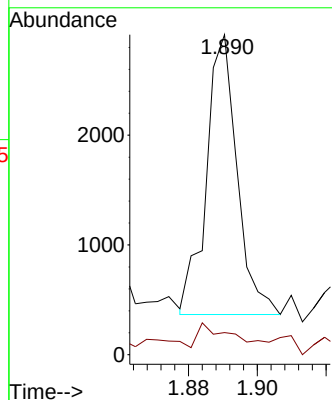
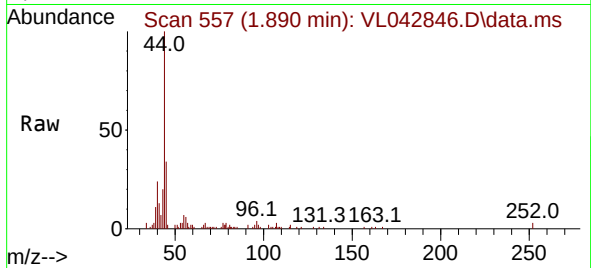




#13
Ethanol
Concen: 1.847 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.168 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

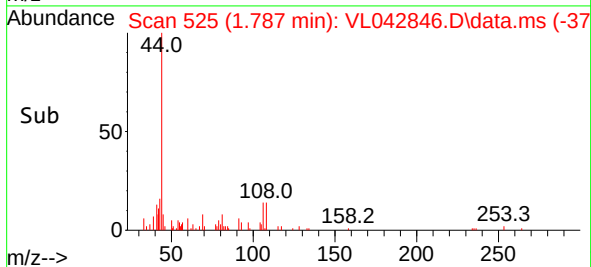
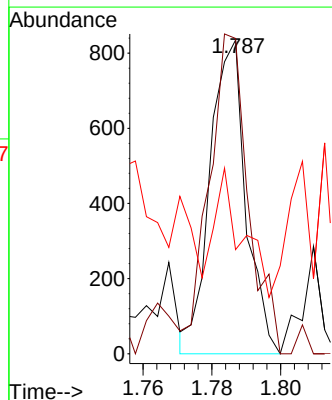
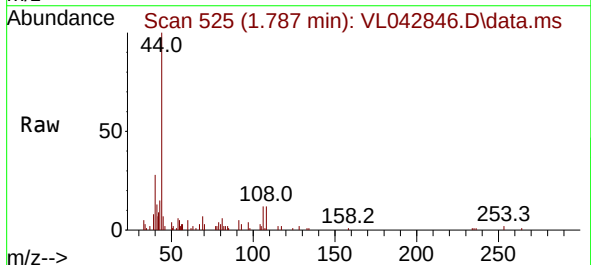
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

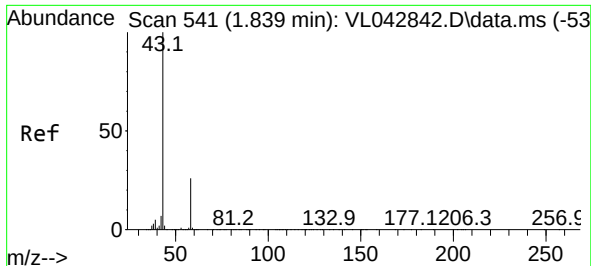
Tgt Ion: 45 Resp: 1584
Ion Ratio Lower Upper
45 100
46 30.6 17.5 69.9



#14
Bromoethene
Concen: 0.117 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 108 Resp: 602
Ion Ratio Lower Upper
108 100
106 149.0 85.1 127.7#
79 122.9 16.3 24.5#

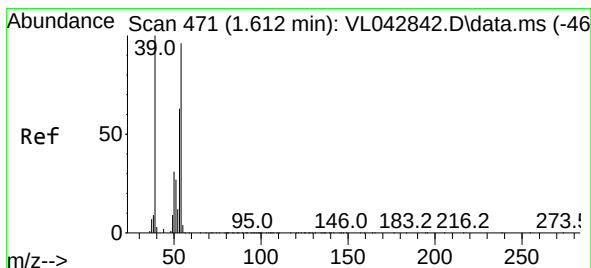
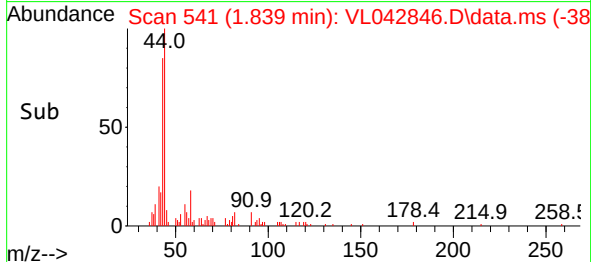
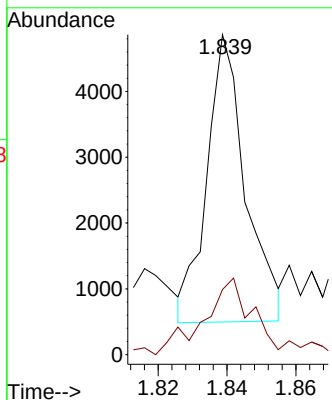
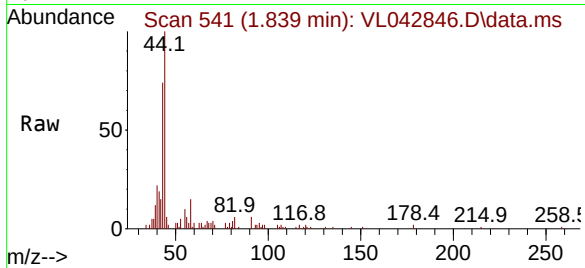




#15
Acetone
Concen: 0.208 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

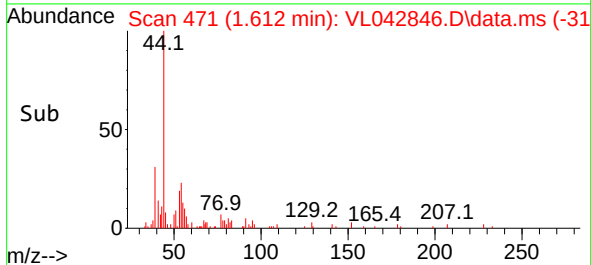
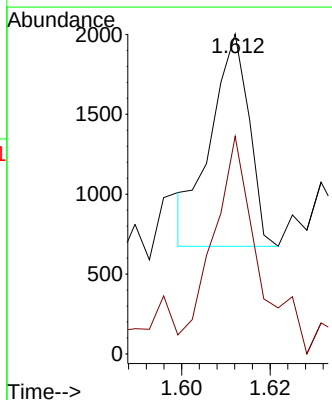
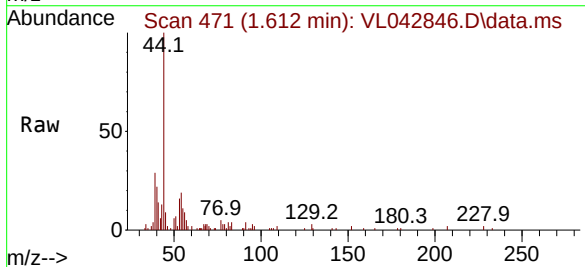
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

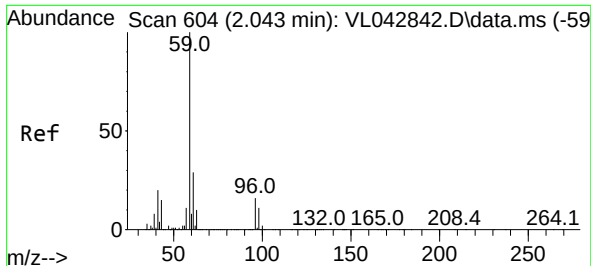
Tgt Ion: 43 Resp: 3411
Ion Ratio Lower Upper
43 100
58 42.9 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.107 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 39 Resp: 795
Ion Ratio Lower Upper
39 100
54 153.6 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.139 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

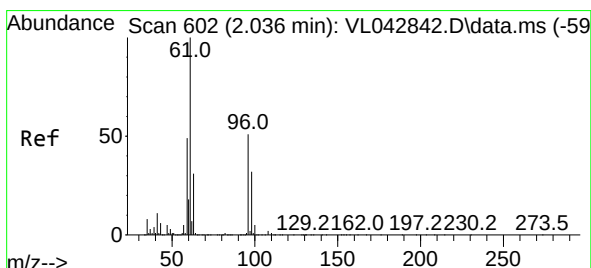
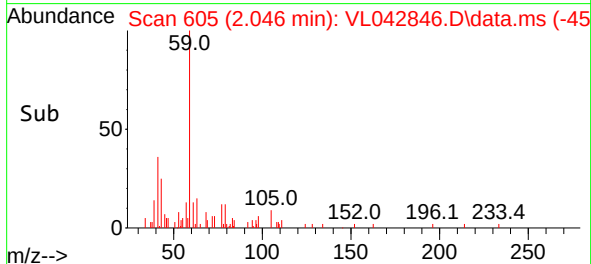
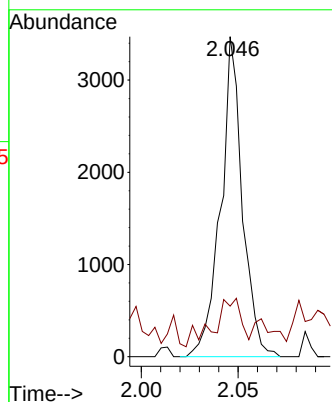
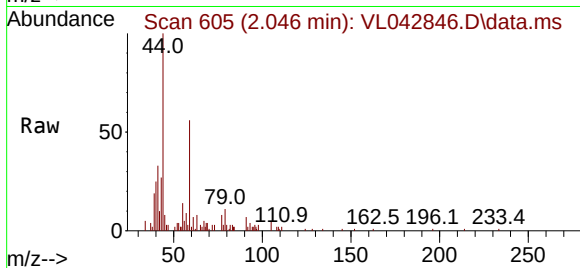
VSTDIC0.1

Tgt Ion: 59 Resp: 2697

Ion Ratio Lower Upper

59 100

57 24.9 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.154 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

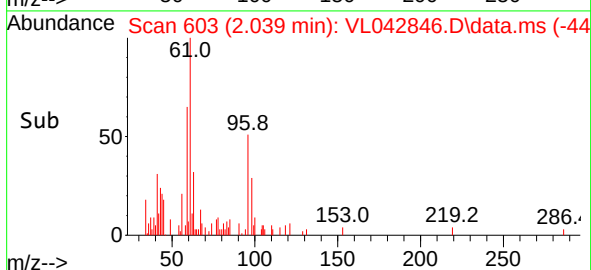
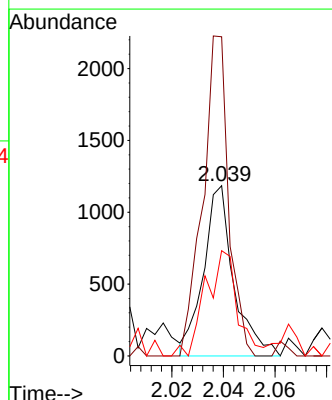
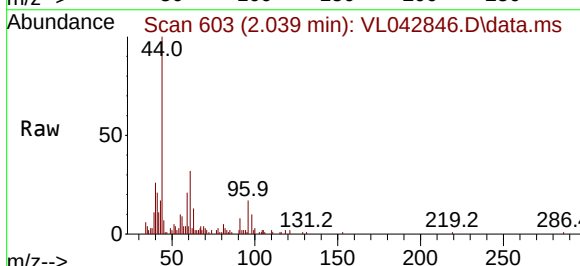
Tgt Ion: 96 Resp: 964

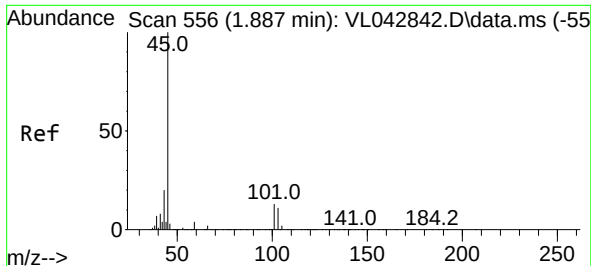
Ion Ratio Lower Upper

96 100

61 187.5 158.2 237.4

98 55.6 50.6 76.0

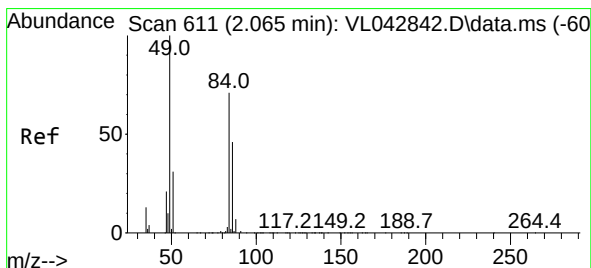
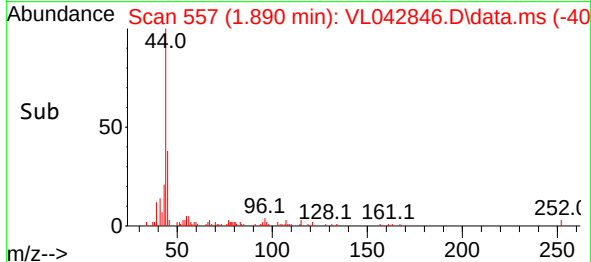
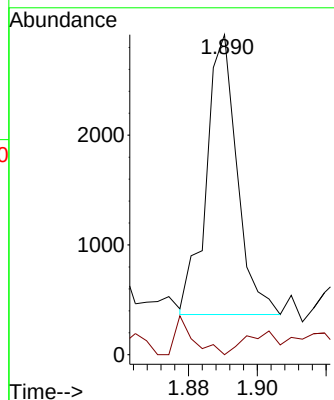
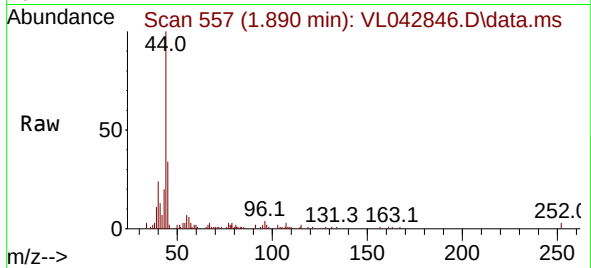




#19
Isopropyl Alcohol
Concen: 0.162 ppbv
RT: 1.890 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

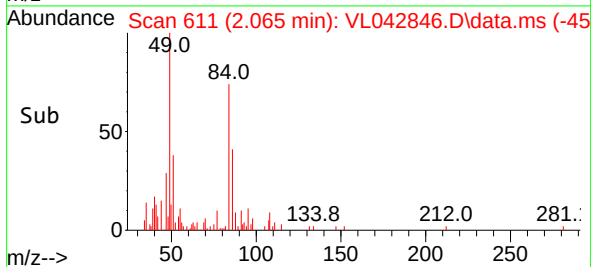
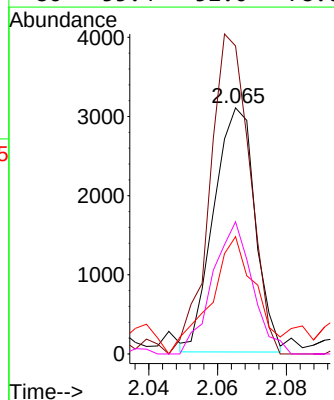
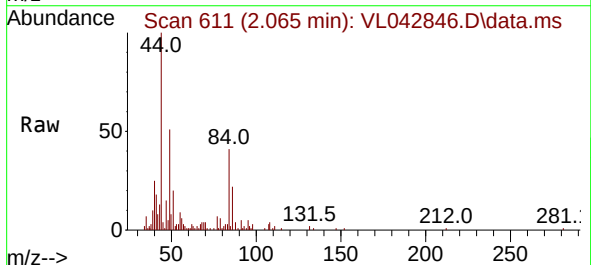
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

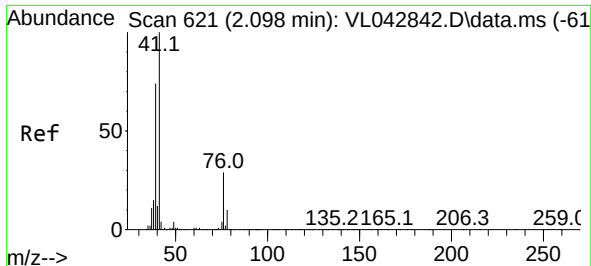
Tgt Ion: 45 Resp: 1584
Ion Ratio Lower Upper
45 100
58 26.0 32.7 49.1#



#20
Methylene Chloride
Concen: 0.376 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 84 Resp: 2577
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 42.1 36.0 54.0
86 55.4 52.0 78.0

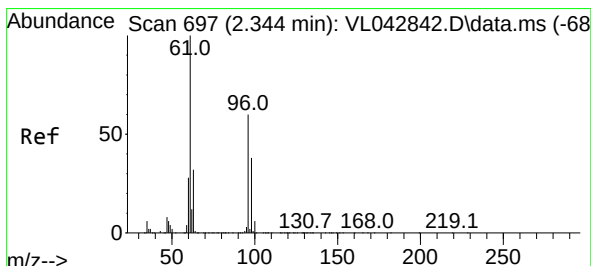
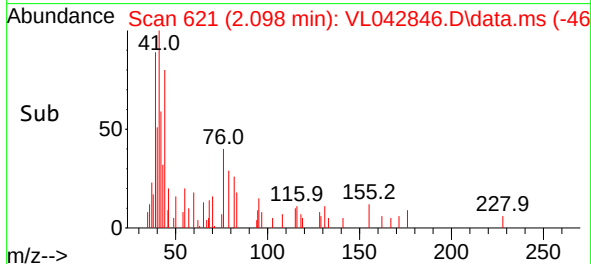
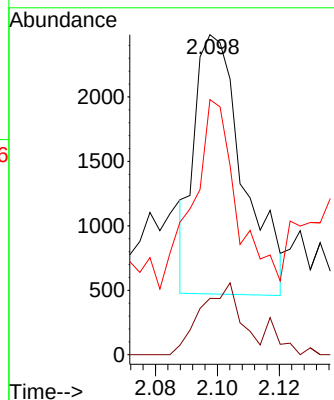
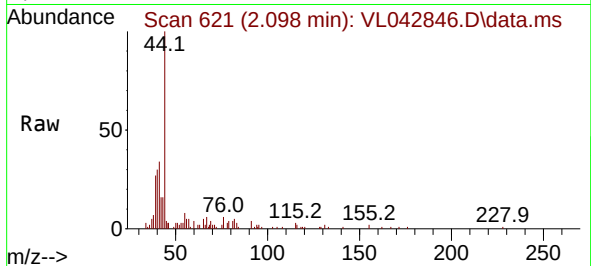




#21
 Allyl Chloride
 Concen: 0.190 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

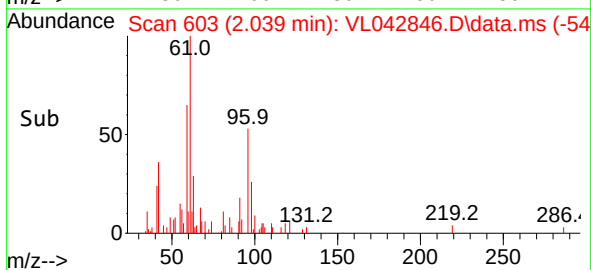
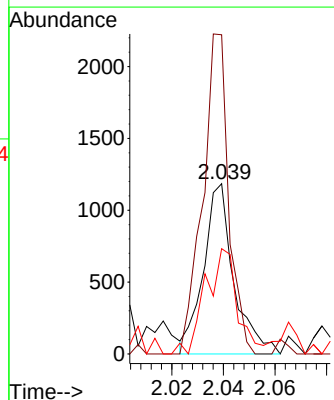
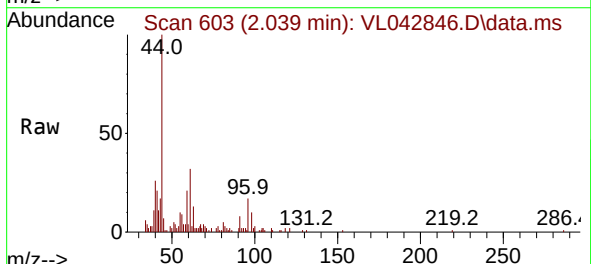
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

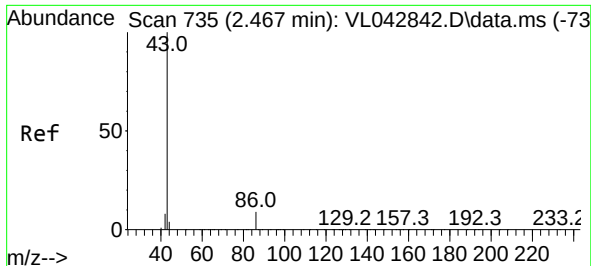
Tgt Ion: 41 Resp: 2198
 Ion Ratio Lower Upper
 41 100
 76 27.2 23.9 35.9
 39 109.1 57.8 86.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.138 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. -0.304 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 96 Resp: 964
 Ion Ratio Lower Upper
 96 100
 61 187.5 132.6 199.0
 98 55.6 50.0 75.0

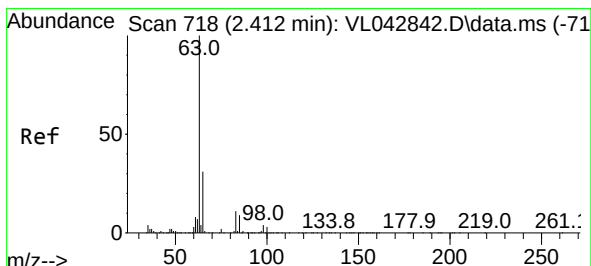
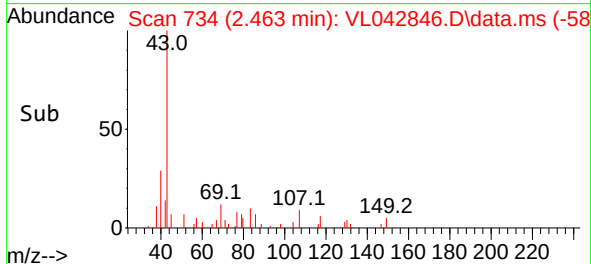
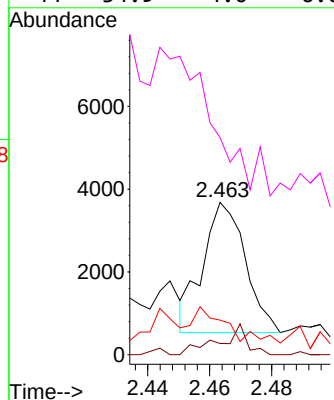
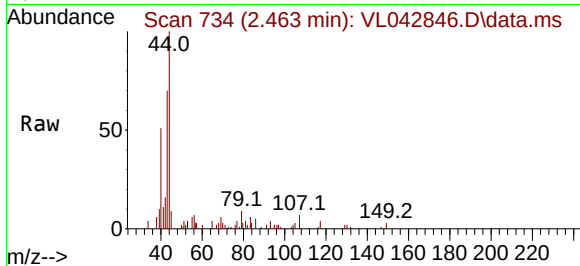




#23
 Vinyl Acetate
 Concen: 0.139 ppbv
 RT: 2.463 min Scan# 719
 Delta R.T. -0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

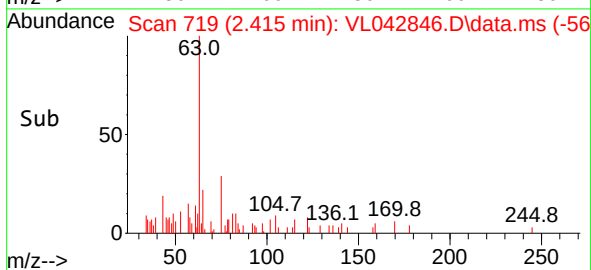
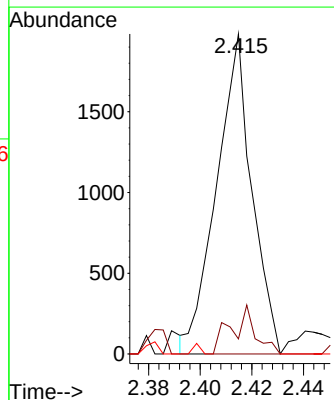
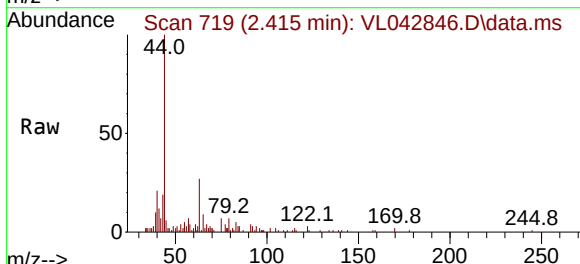
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

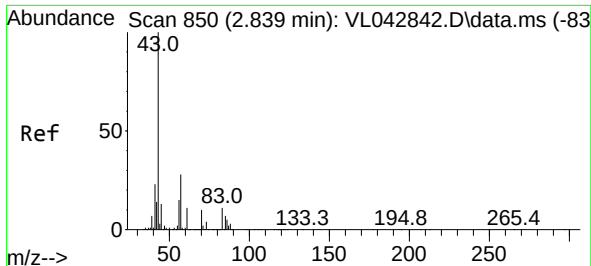
Tgt Ion: 43	Resp:	3002	
Ion	Ratio	Lower	Upper
43	100		
86	8.6	6.6	9.8
42	17.6	7.0	10.6#
44	34.9	4.0	6.0#



#24
 1,1-Dichloroethane
 Concen: 0.130 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 63	Resp:	1879
Ion Ratio	Lower	Upper
63 100		
98 4.7	2.1	6.5
100 0.0	1.7	5.1#





#25

Ethyl Acetate

Concen: 0.030 ppbv

RT: 2.836 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 1206

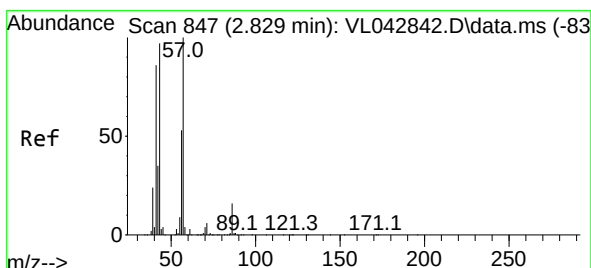
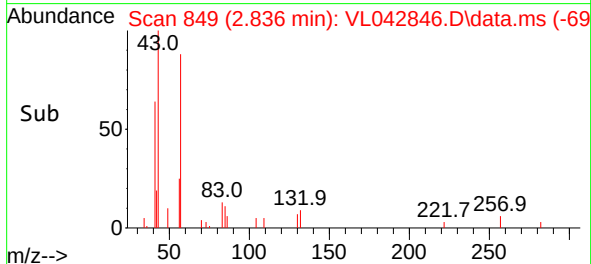
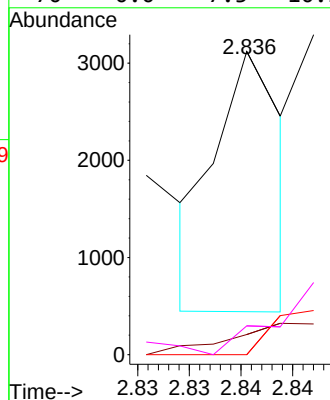
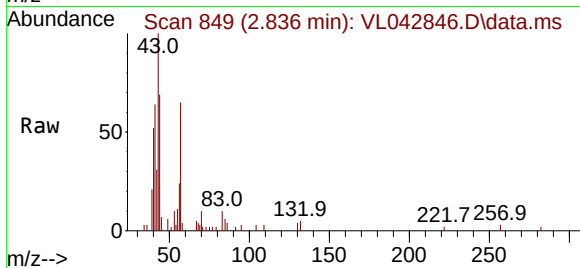
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 0.0 7.4 11.2#

70 0.0 7.3 10.9#



#26

Hexane

Concen: 0.122 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.006 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion: 57 Resp: 2223

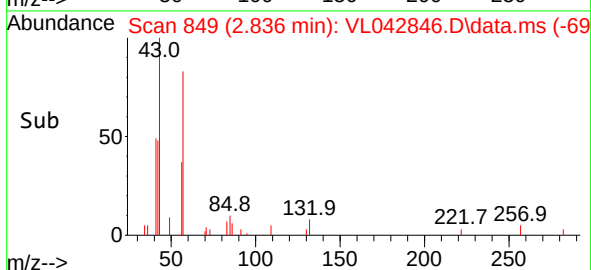
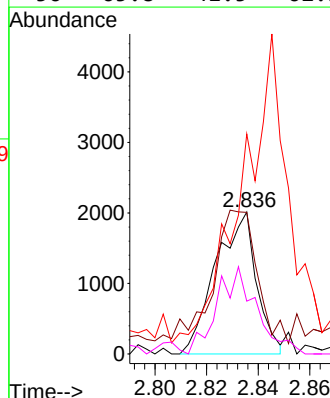
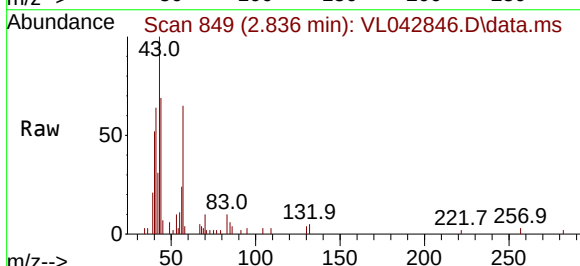
Ion Ratio Lower Upper

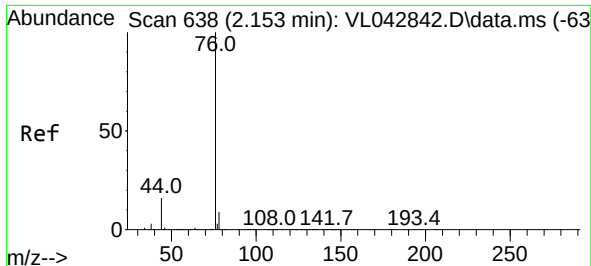
57 100

41 133.1 68.6 103.0#

43 0.0 168.5 252.7#

56 65.8 41.5 62.3#

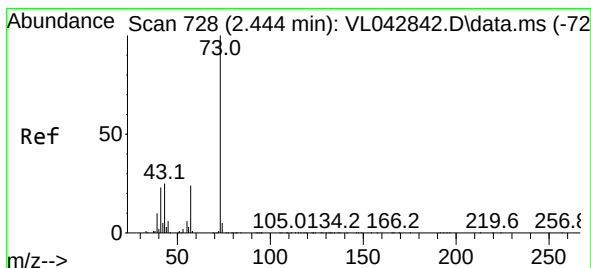
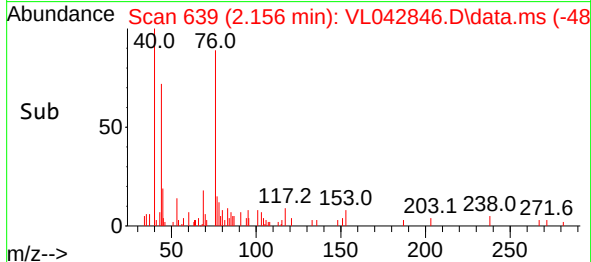
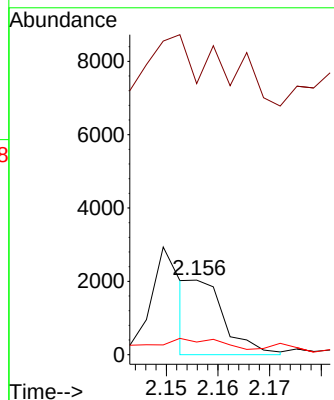
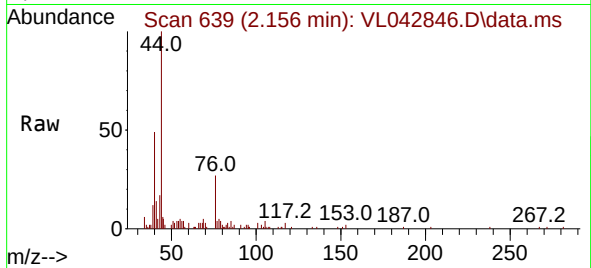




#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

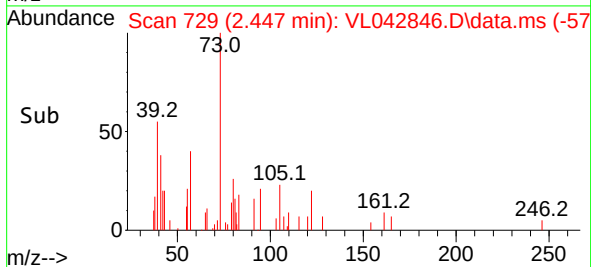
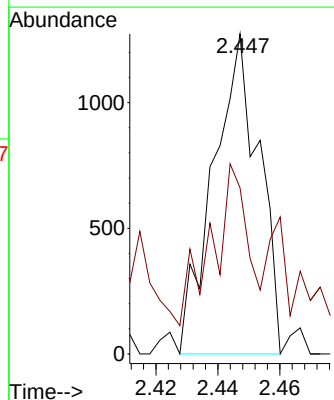
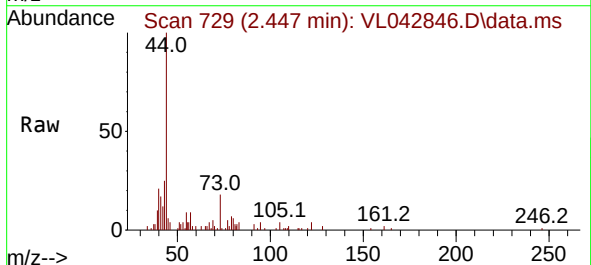
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

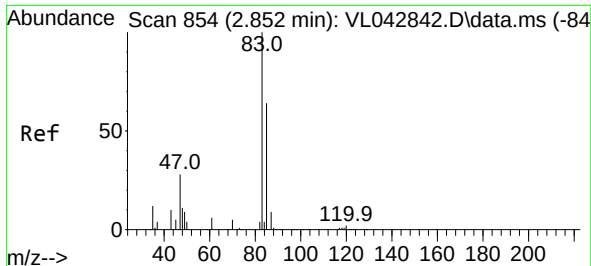
Tgt Ion: 76 Resp: 965
Ion Ratio Lower Upper
76 100
44 1802.5 15.9 23.9#
78 81.7 9.5 14.3#



#28
Methyl tert-Butyl Ether
Concen: 0.139 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 73 Resp: 1300
Ion Ratio Lower Upper
73 100
57 84.2 21.6 32.4#





#29

Chloroform

Concen: 0.113 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

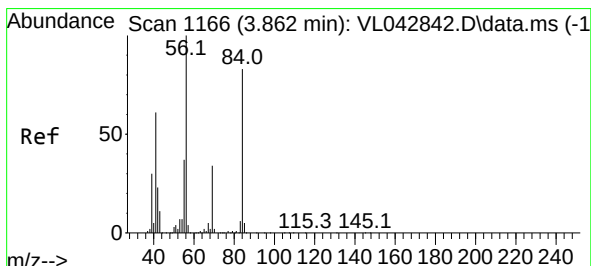
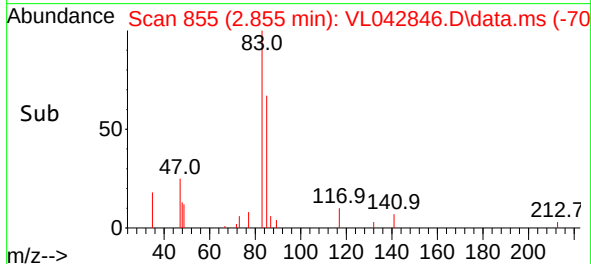
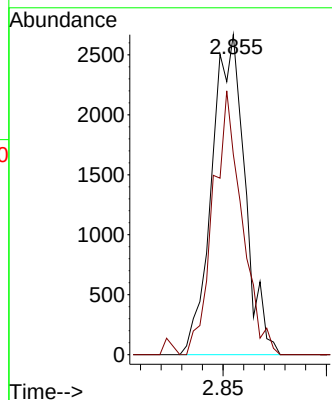
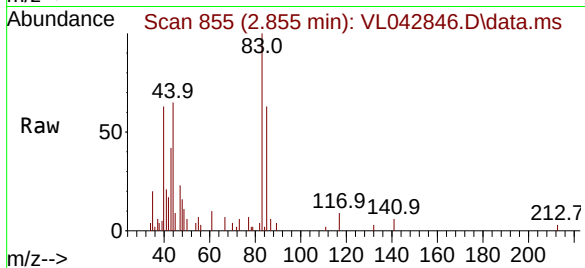
VSTDIC0.1

Tgt Ion: 83 Resp: 2962

Ion Ratio Lower Upper

83 100

85 62.6 51.1 76.7



#30

Cyclohexane

Concen: 0.052 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

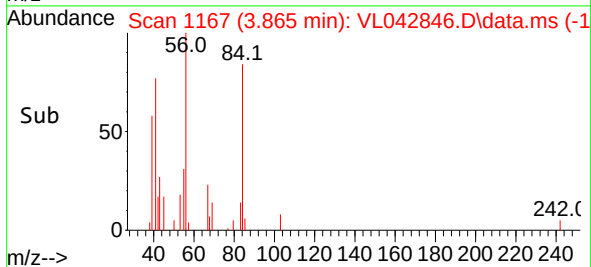
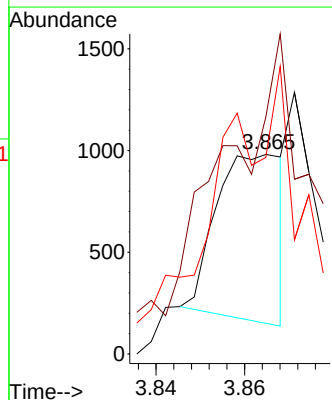
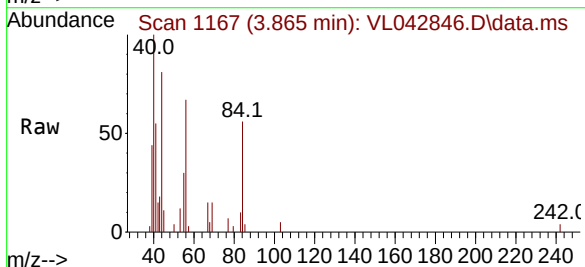
Tgt Ion: 84 Resp: 835

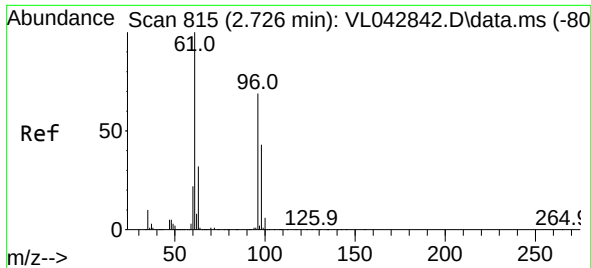
Ion Ratio Lower Upper

84 100

56 0.0 98.8 148.2#

41 0.0 61.3 91.9#

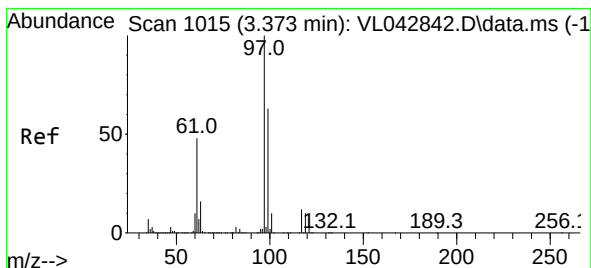
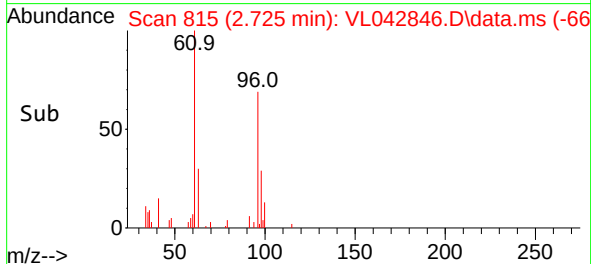
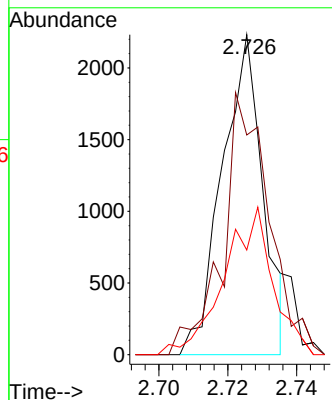
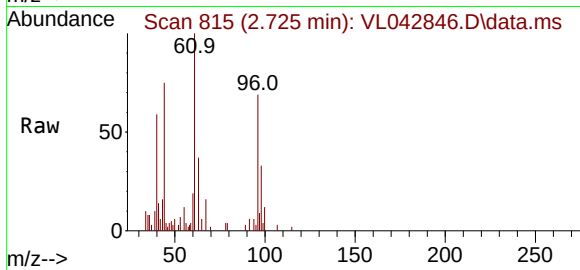




#31
 cis-1,2-Dichloroethene
 Concen: 0.101 ppbv
 RT: 2.725 min Scan# 815
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

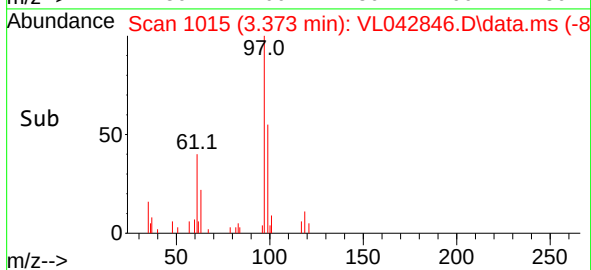
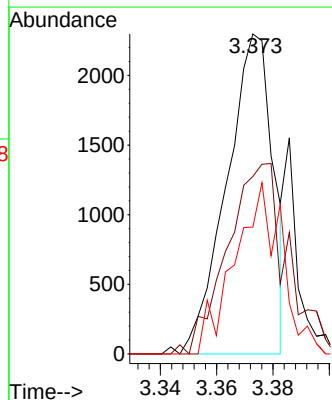
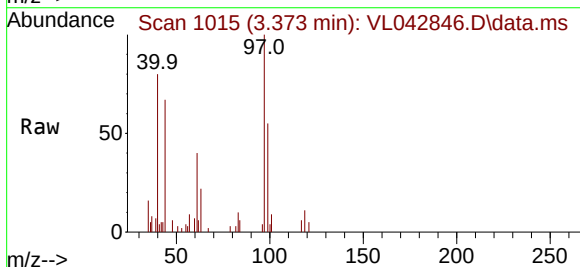
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

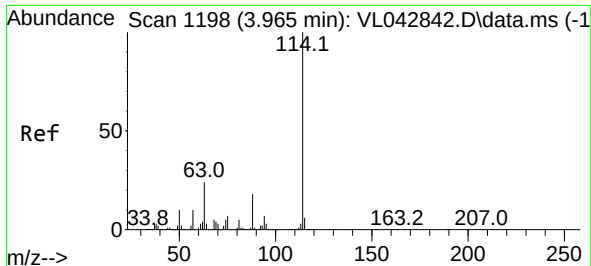
Tgt Ion:	61	Resp:	1839
Ion	Ratio	Lower	Upper
61	100		
96	60.0	55.0	82.6
98	30.3	34.3	51.5#



#32
 1,1,1-Trichloroethane
 Concen: 0.095 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion:	97	Resp:	2627
Ion	Ratio	Lower	Upper
97	100		
99	76.4	51.0	76.6
61	54.3	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

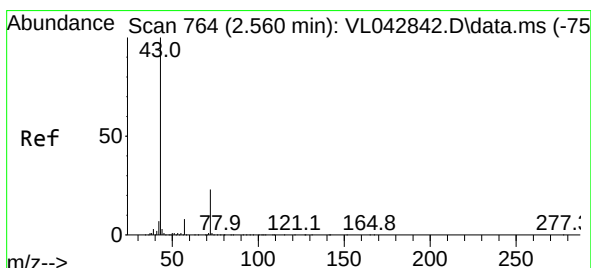
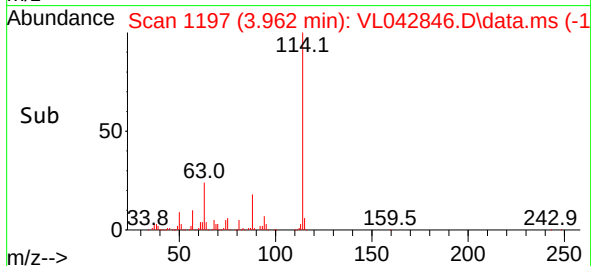
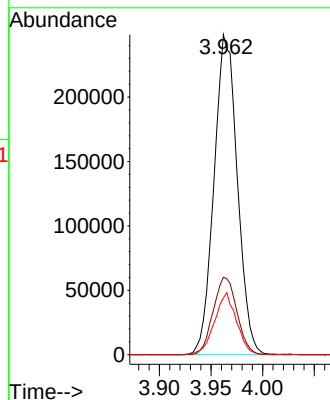
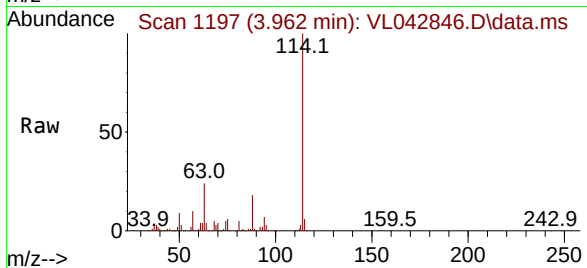
Tgt Ion:114 Resp: 390520

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.113 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042846.D

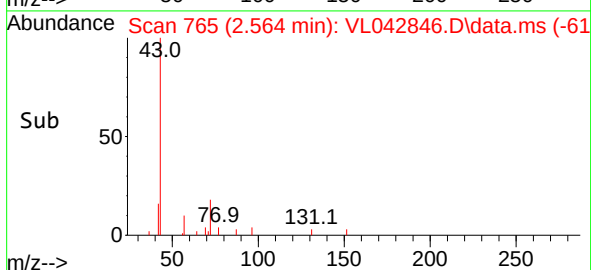
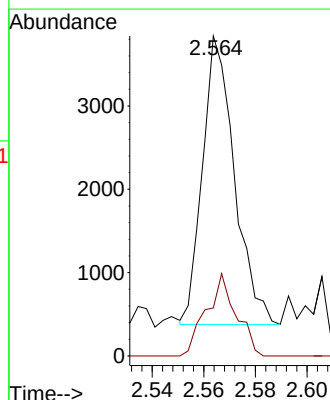
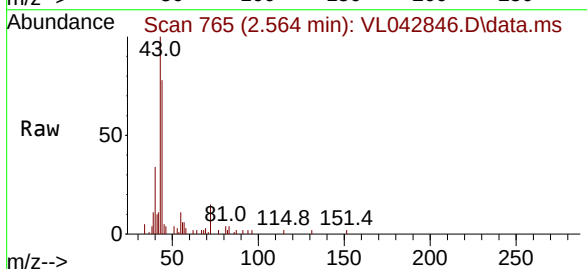
Acq: 13 Aug 2025 10:53

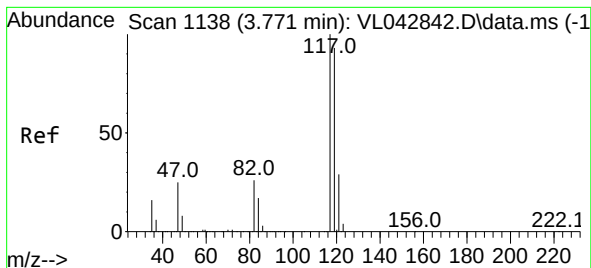
Tgt Ion: 43 Resp: 2970

Ion Ratio Lower Upper

43 100

72 26.7 18.6 28.0





#35

Carbon Tetrachloride

Concen: 0.107 ppbv

RT: 3.774 min Scan# 1138

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

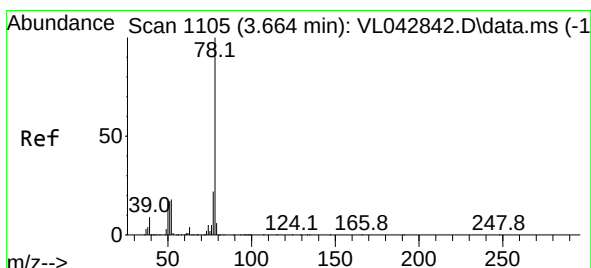
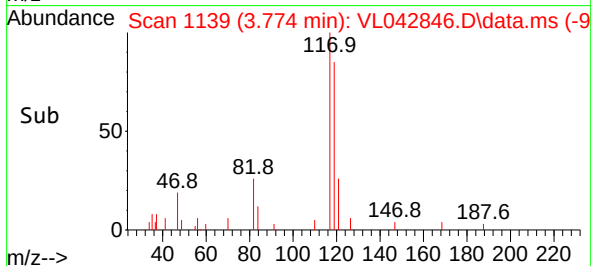
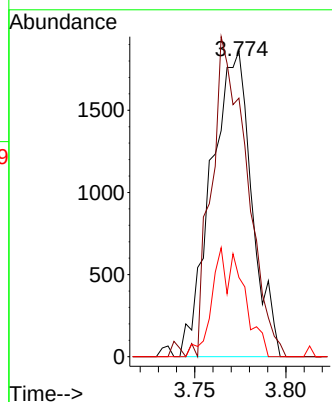
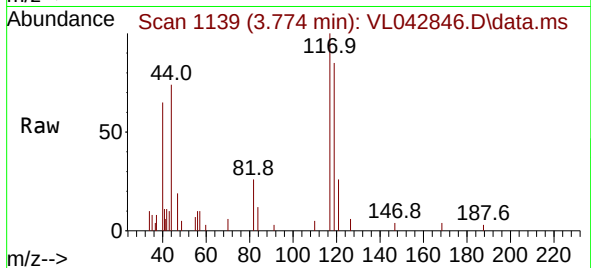
Tgt Ion:117 Resp: 2883

Ion Ratio Lower Upper

117 100

119 81.8 74.7 112.1

121 25.9 23.2 34.8



#36

Benzene

Concen: 0.065 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

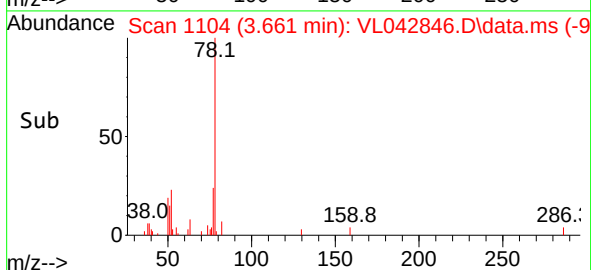
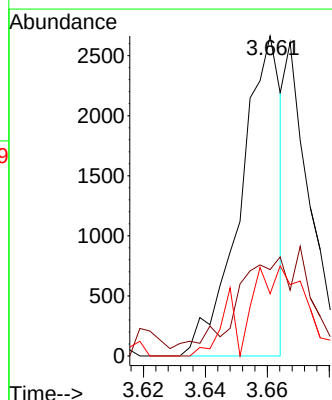
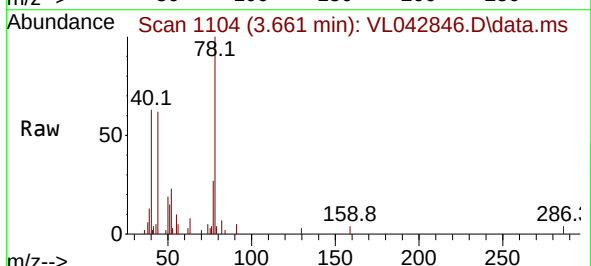
Tgt Ion: 78 Resp: 2430

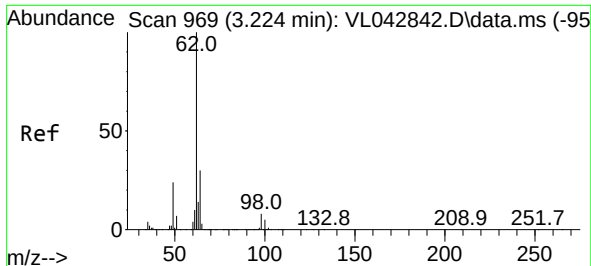
Ion Ratio Lower Upper

78 100

77 23.1 17.7 26.5

50 19.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 0.029 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

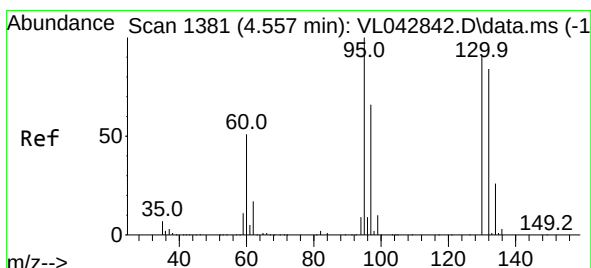
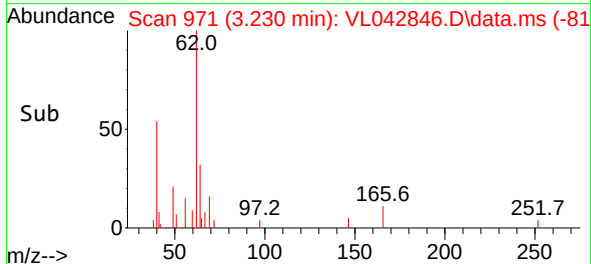
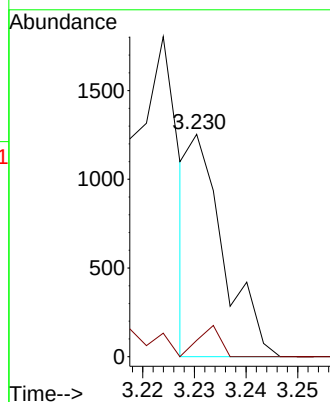
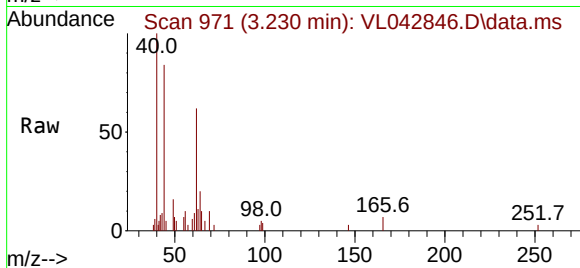
VSTDIC0.1

Tgt Ion: 62 Resp: 576

Ion Ratio Lower Upper

62 100

98 25.9 5.9 8.9#



#38

Trichloroethene

Concen: 0.037 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion:130 Resp: 624

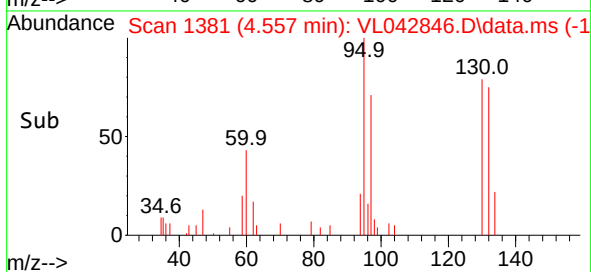
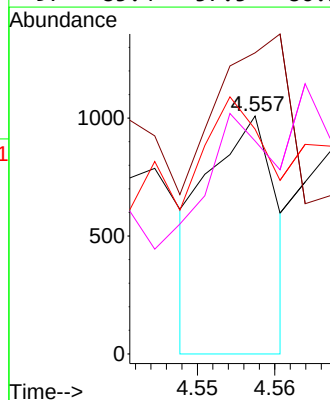
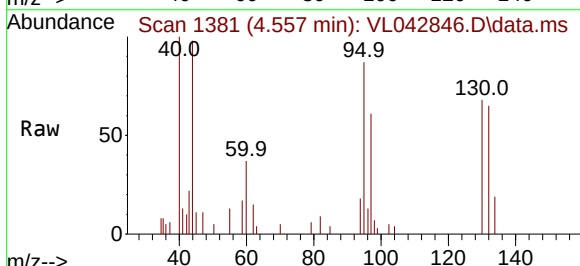
Ion Ratio Lower Upper

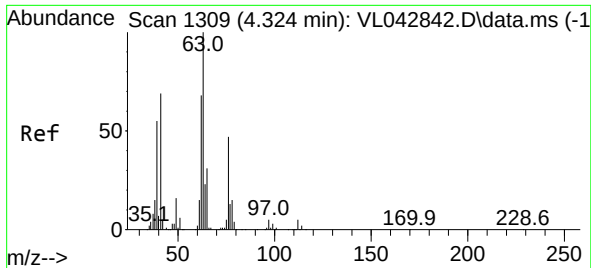
130 100

95 145.9 87.6 131.4#

132 83.5 73.8 110.8

97 85.4 57.5 86.3

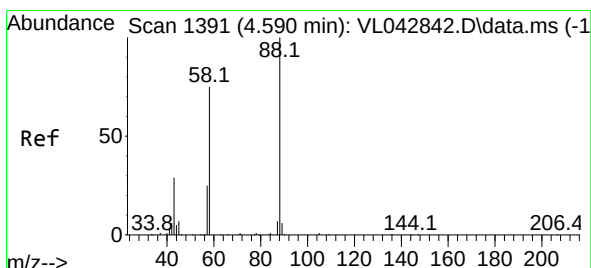
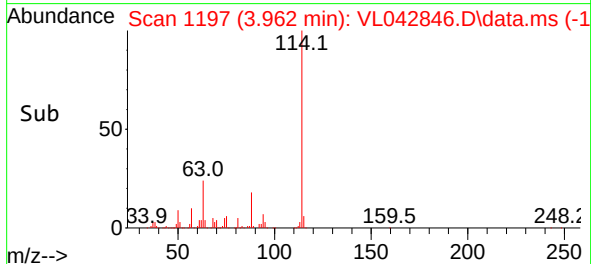
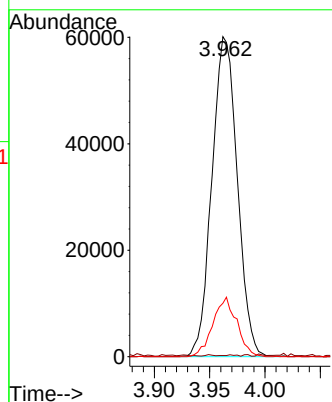
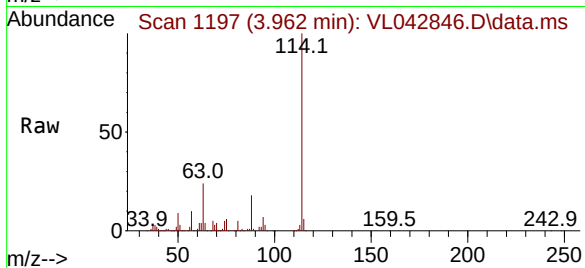




#39
 1,2-Dichloropropane
 Concen: 7.036 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.363 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

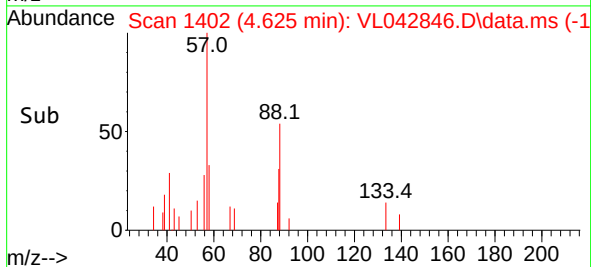
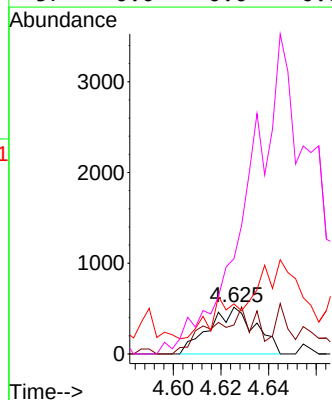
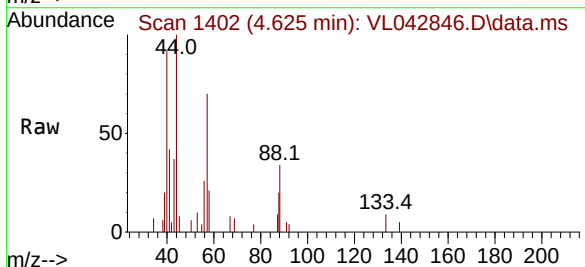
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

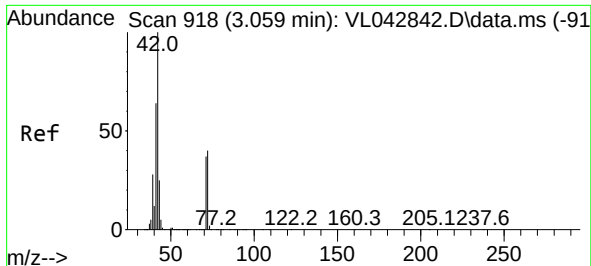
Tgt Ion: 63 Resp: 96098
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.0 82.4#
 62 16.7 54.4 81.6#



#40
 1,4-Dioxane
 Concen: 0.108 ppbv
 RT: 4.625 min Scan# 1402
 Delta R.T. 0.036 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 88 Resp: 693
 Ion Ratio Lower Upper
 88 100
 58 0.0 53.8 80.6#
 43 71.0 22.8 34.2#
 57 0.0 0.0 0.0

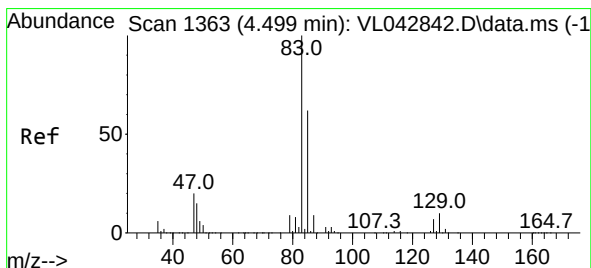
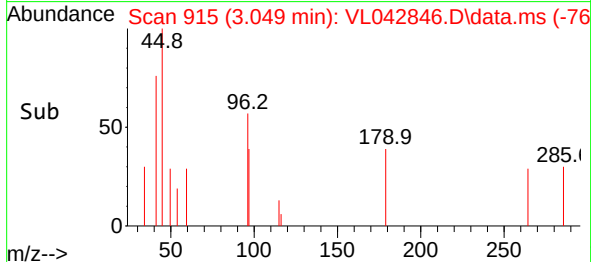
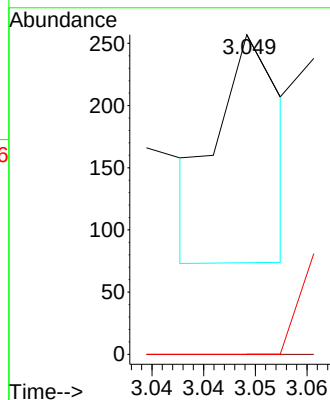
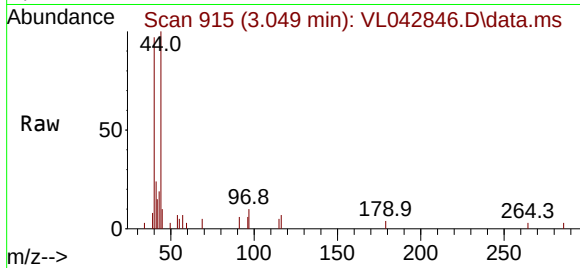




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.049 min Scan# 918
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

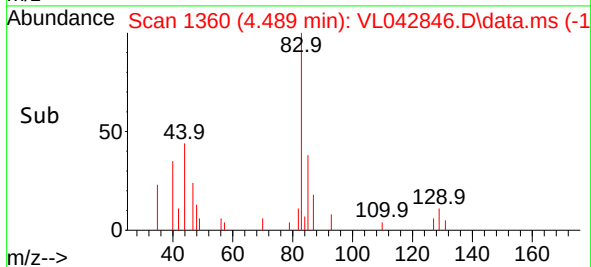
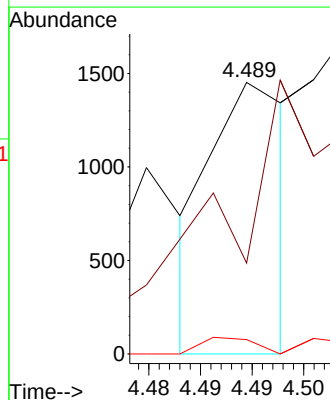
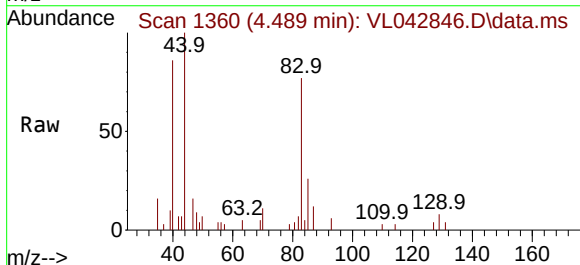
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

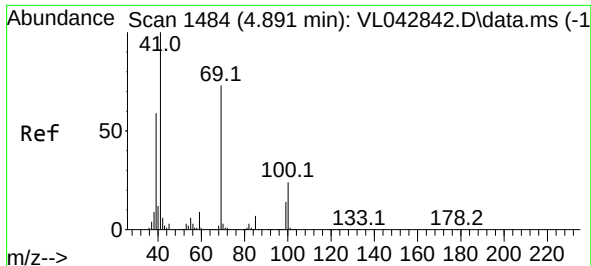
Tgt Ion:	42	Resp:	78
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.6	48.8#
71	0.0	30.0	45.0#



#42
Bromodichloromethane
Concen: 0.026 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:	83	Resp:	756
Ion	Ratio	Lower	Upper
83	100		
85	0.0	49.8	74.8#
127	10.8	5.8	8.6#





#43

Methyl Methacrylate

Concen: 0.084 ppbv

RT: 4.894 min Scan# 1485

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

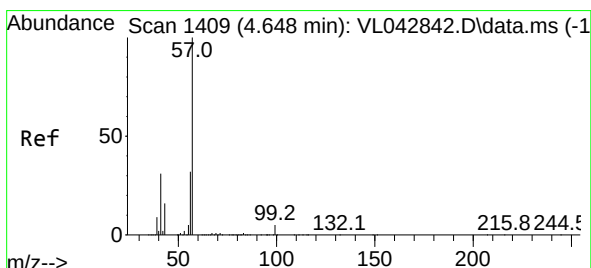
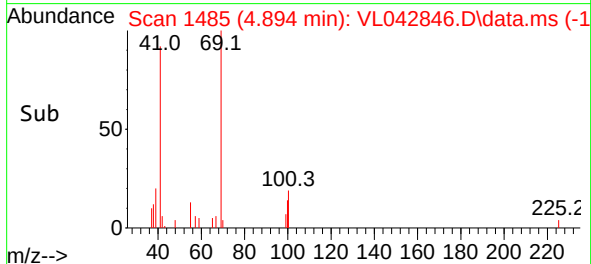
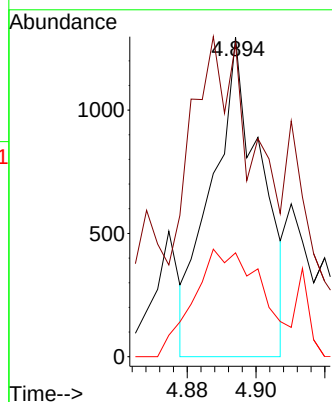
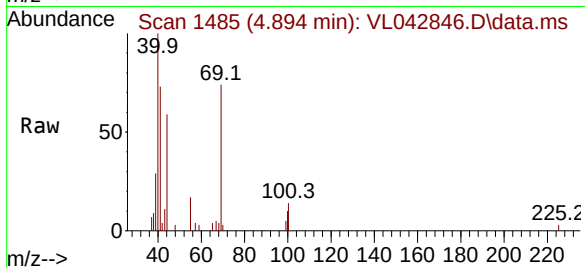
Tgt Ion: 69 Resp: 1289

Ion Ratio Lower Upper

69 100

41 194.8 114.6 172.0#

100 55.2 30.2 45.4#



#44

2,2,4-Trimethylpentane

Concen: 0.035 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

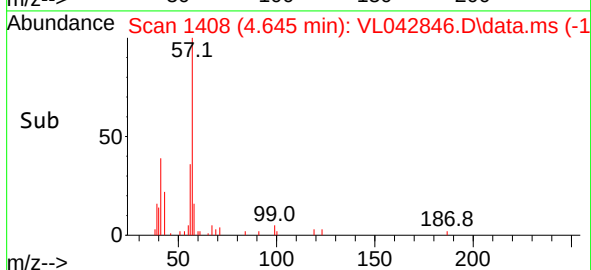
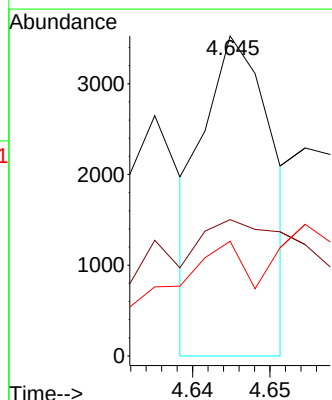
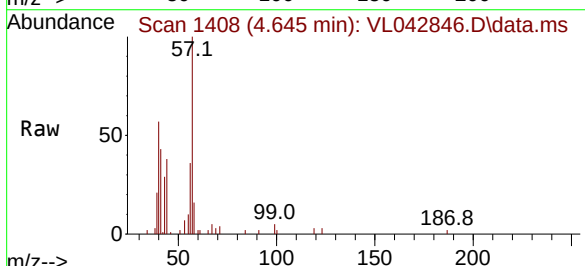
Tgt Ion: 57 Resp: 2178

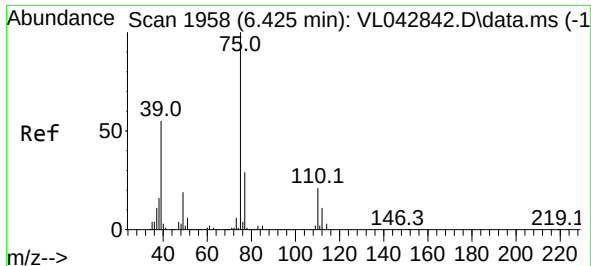
Ion Ratio Lower Upper

57 100

41 145.1 24.8 37.2#

56 0.0 25.5 38.3#

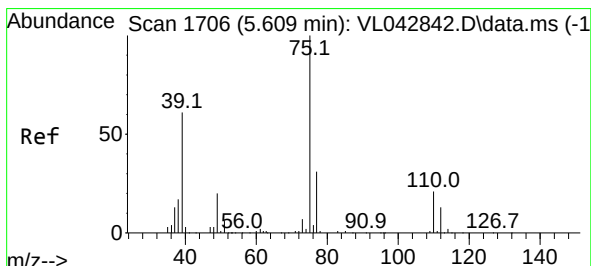
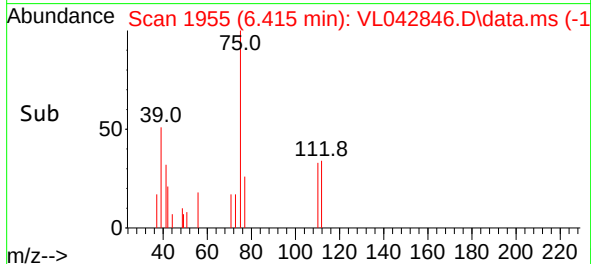
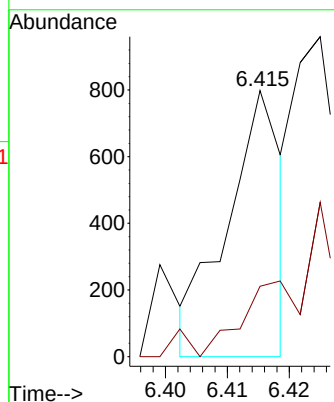
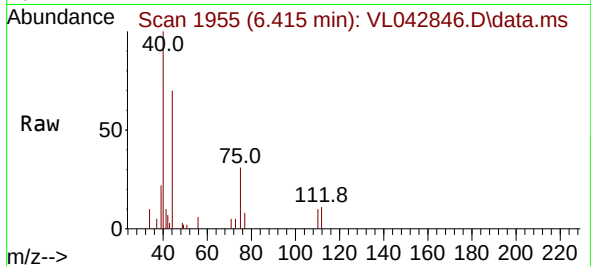




#45
 t-1,3-Dichloropropene
 Concen: 0.028 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.010 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

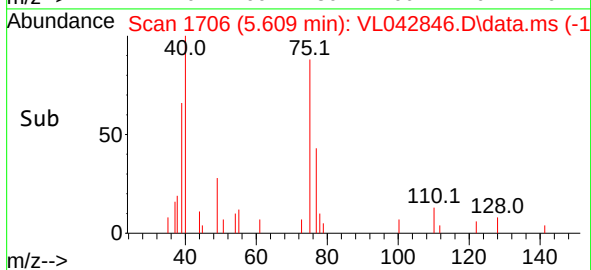
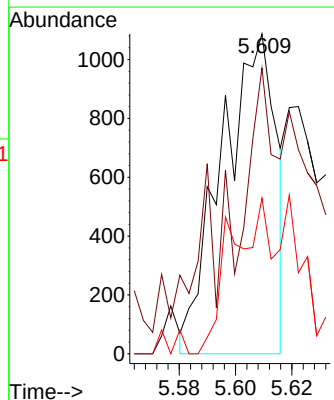
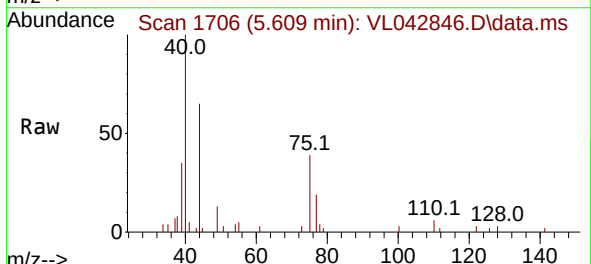
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

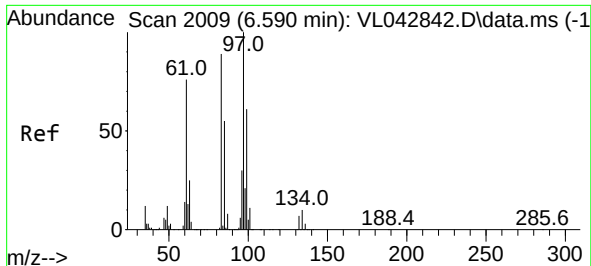
Tgt Ion: 75 Resp: 486
 Ion Ratio Lower Upper
 75 100
 77 26.4 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.067 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 75 Resp: 1454
 Ion Ratio Lower Upper
 75 100
 39 69.2 48.9 73.3
 77 44.1 24.9 37.3#





#47

1,1,2-Trichloroethane

Concen: 0.018 ppbv

RT: 6.580 min Scan# 2009

Delta R.T. -0.010 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 260

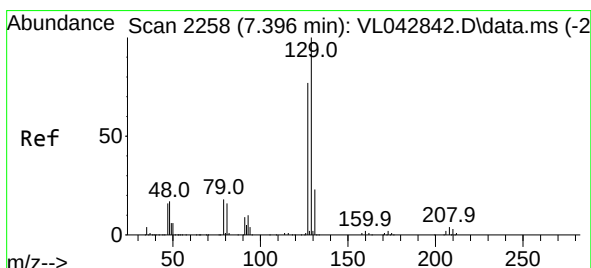
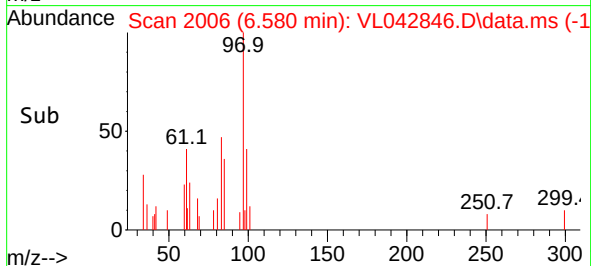
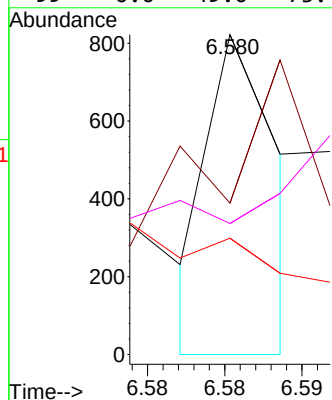
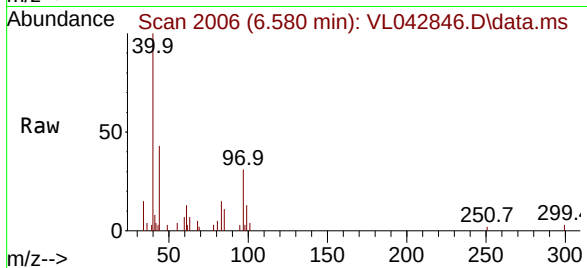
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 15.2 43.6 65.4#

99 0.0 49.0 73.4#



#48

Dibromochloromethane

Concen: 0.088 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042846.D

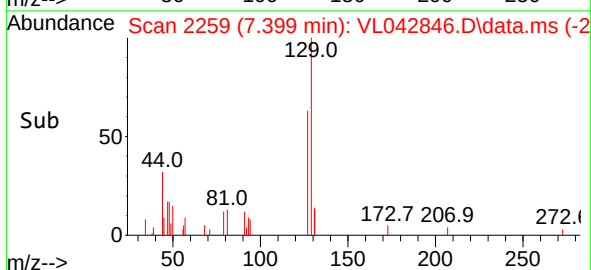
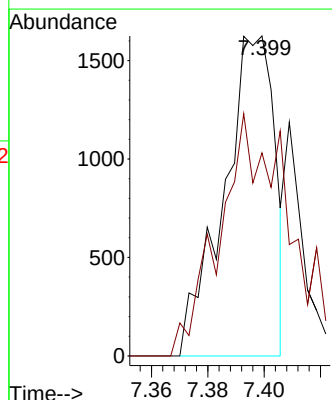
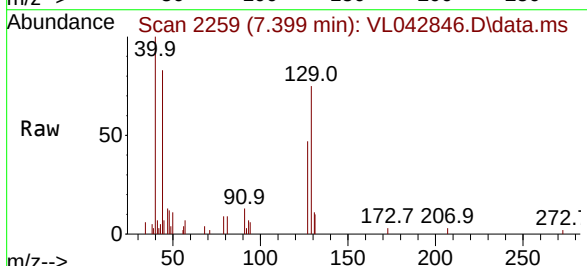
Acq: 13 Aug 2025 10:53

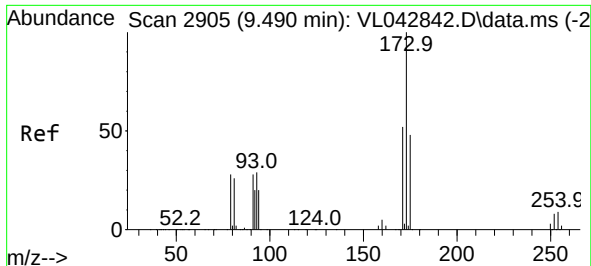
Tgt Ion: 129 Resp: 2052

Ion Ratio Lower Upper

129 100

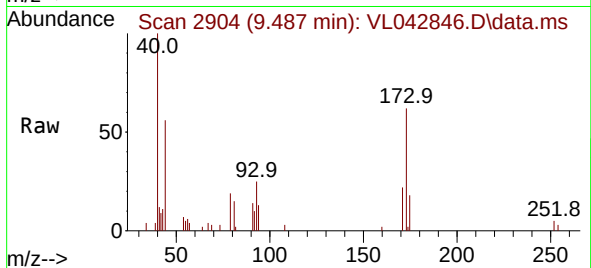
127 101.4 39.4 118.2



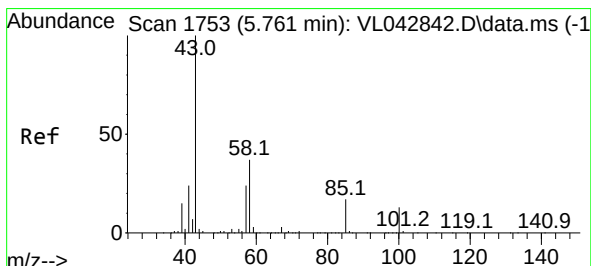
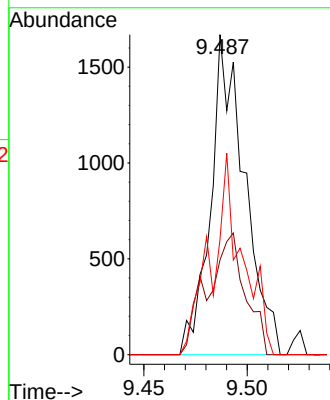
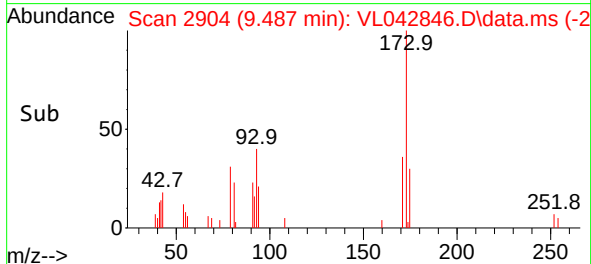


#49
Bromoform
Concen: 0.099 ppbv
RT: 9.487 min Scan# 2905
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

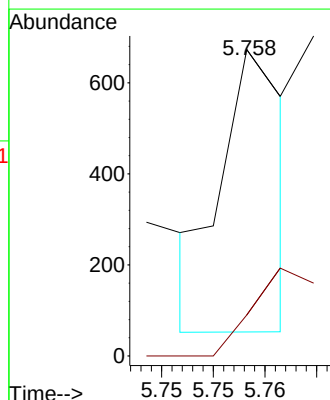
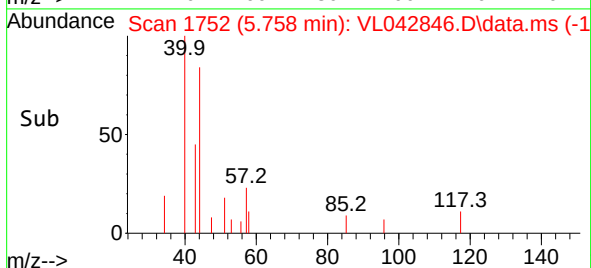
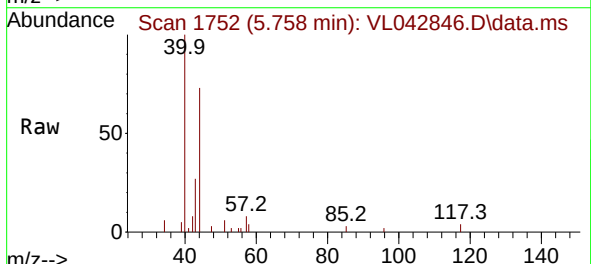


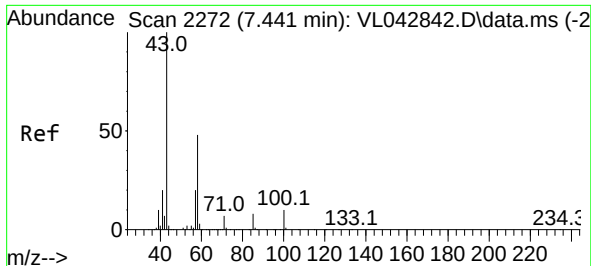
Tgt Ion:173 Resp: 1909
Ion Ratio Lower Upper
173 100
175 42.4 39.2 58.8
171 57.5 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 0.007 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 266
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#

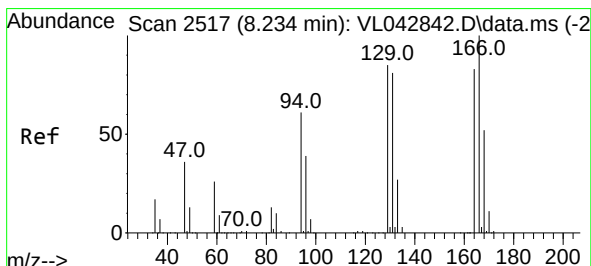
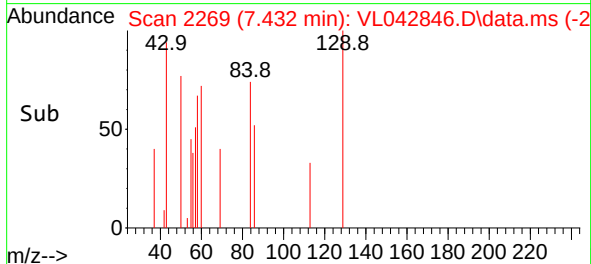
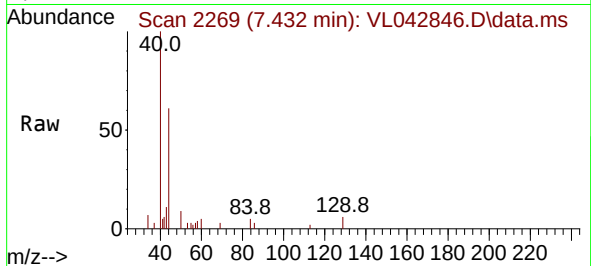




#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

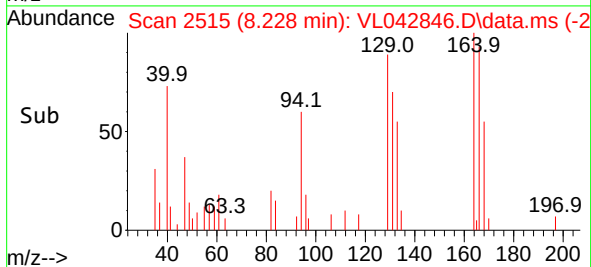
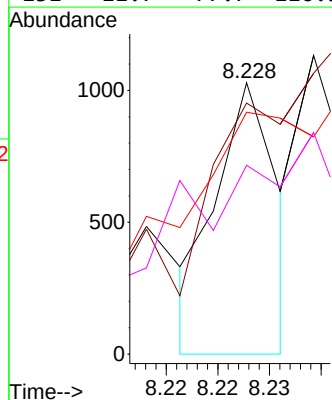
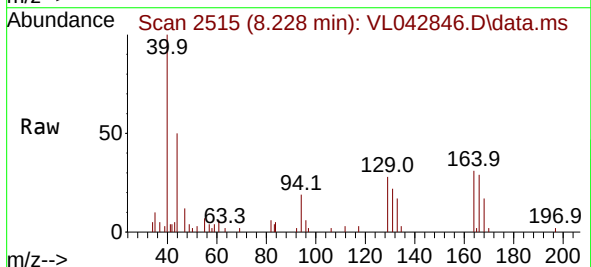
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

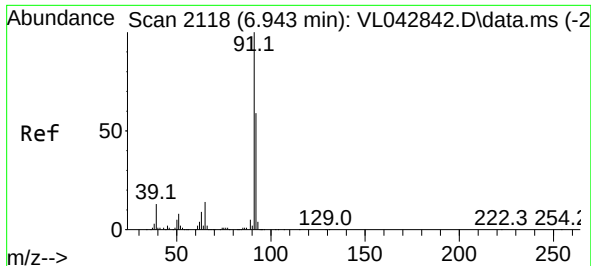
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.031 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.007 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 164 Resp: 425
Ion Ratio Lower Upper
164 100
166 104.7 96.5 144.7
129 62.6 81.8 122.6#
131 11.7 77.7 116.5#

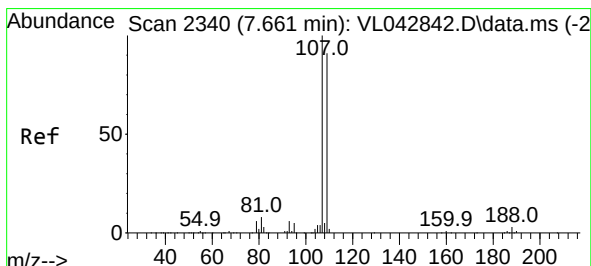
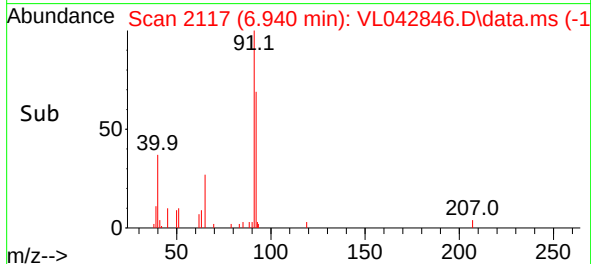
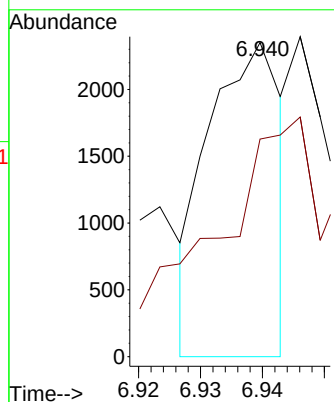
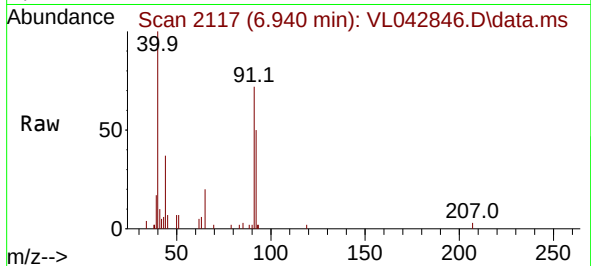




#53
Toluene
Concen: 0.043 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

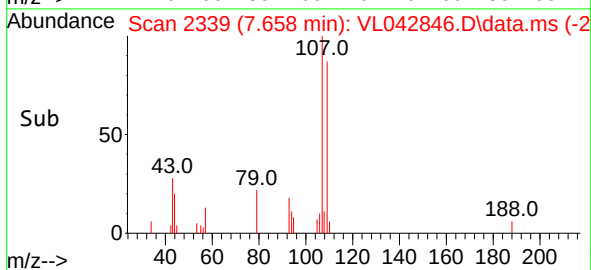
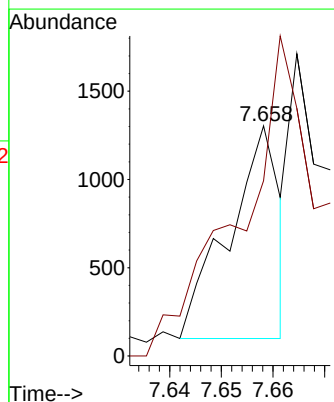
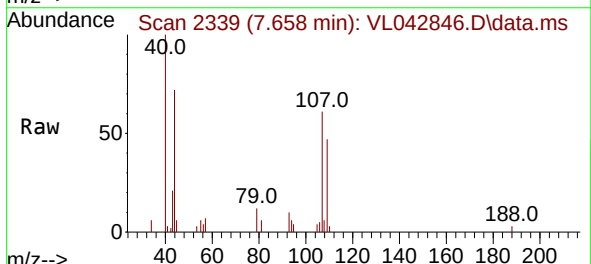
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

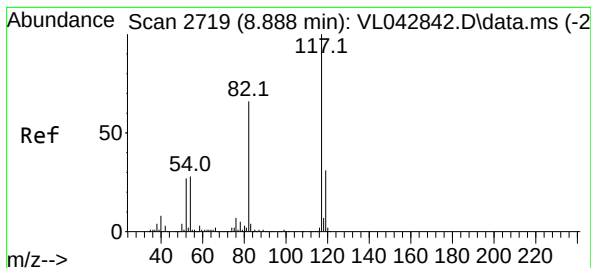
Tgt Ion: 91 Resp: 1918
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.039 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 107 Resp: 828
Ion Ratio Lower Upper
107 100
109 63.7 72.5 108.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

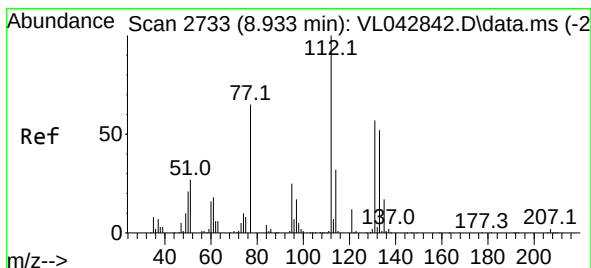
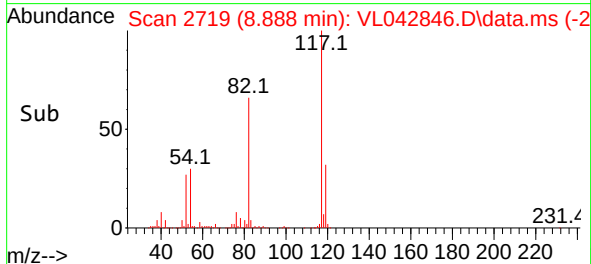
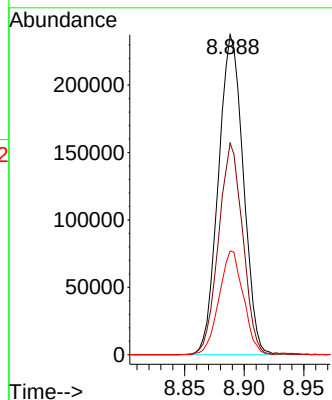
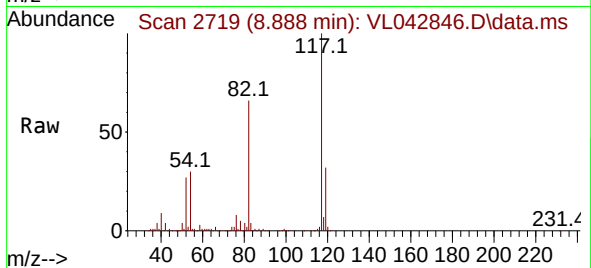
Tgt Ion:117 Resp: 345073

Ion Ratio Lower Upper

117 100

82 64.3 54.6 81.8

119 32.2 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 8.937 min Scan# 2734

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

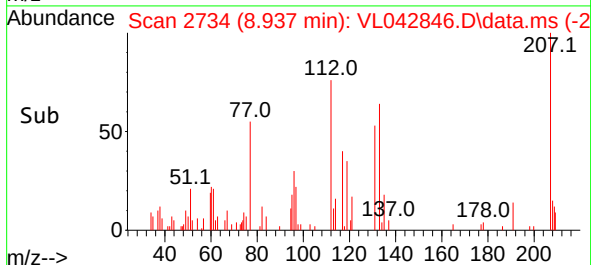
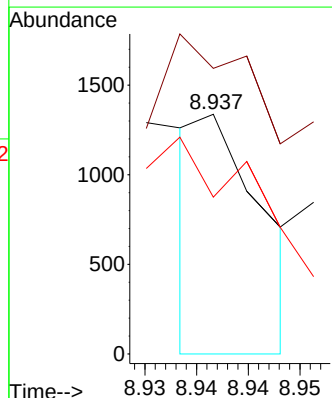
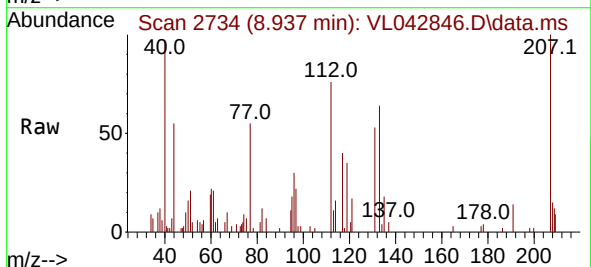
Tgt Ion:131 Resp: 573

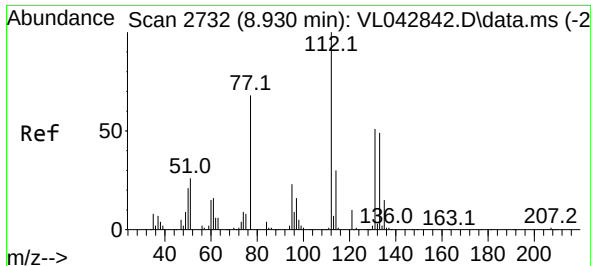
Ion Ratio Lower Upper

131 100

133 500.2 77.4 116.0#

119 0.0 51.2 76.8#

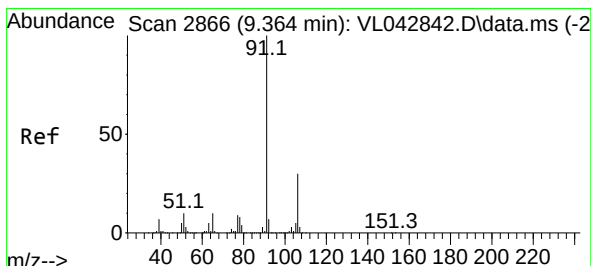
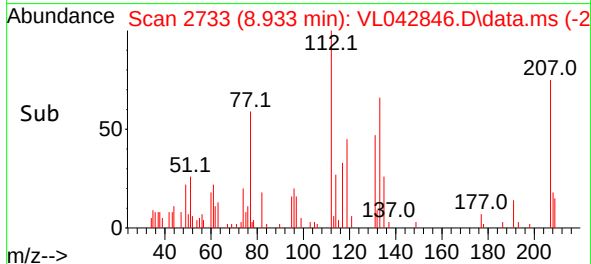
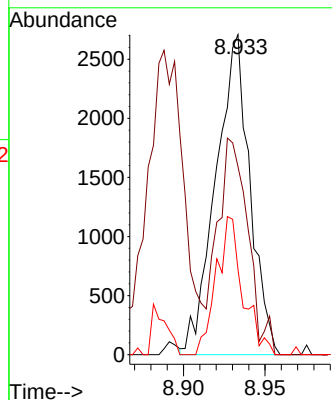
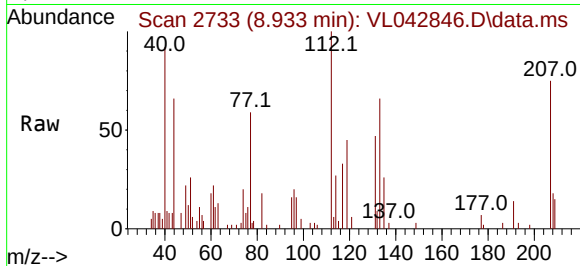




#57
Chlorobenzene
Concen: 0.120 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

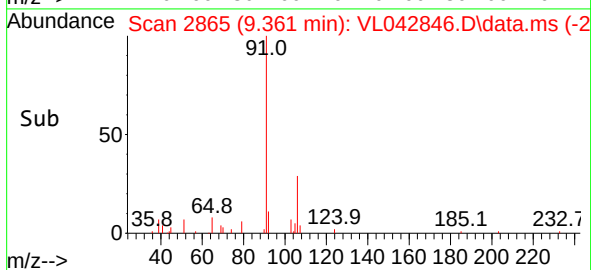
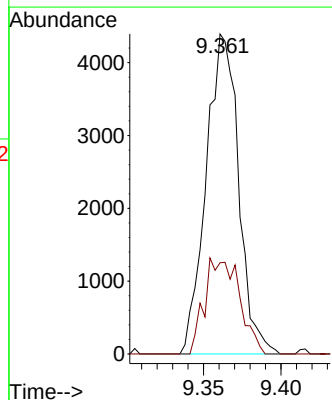
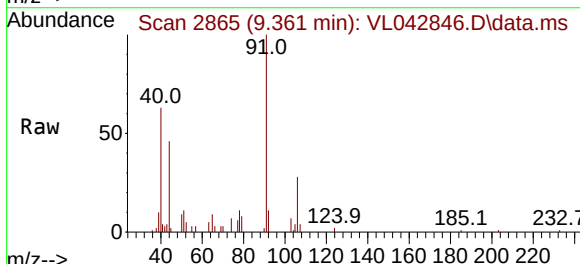
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

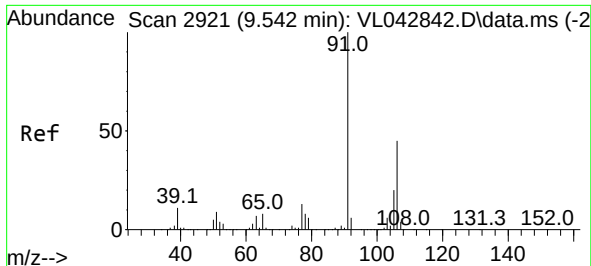
Tgt Ion:112 Resp: 3936
Ion Ratio Lower Upper
112 100
77 62.3 55.5 83.3
114 26.7 27.2 33.2#



#58
Ethyl Benzene
Concen: 0.105 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 6413
Ion Ratio Lower Upper
91 100
106 28.5 23.9 35.9





#59

m/p-Xylene

Concen: 0.091 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

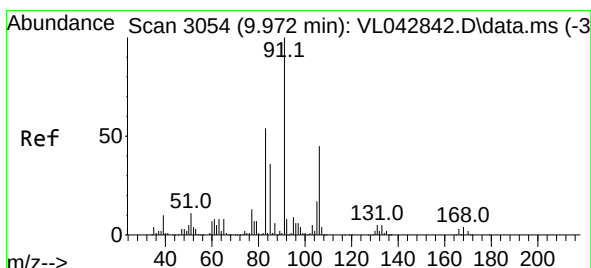
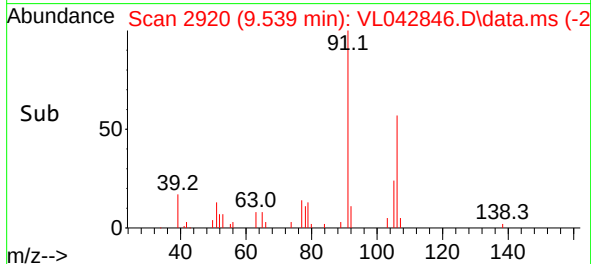
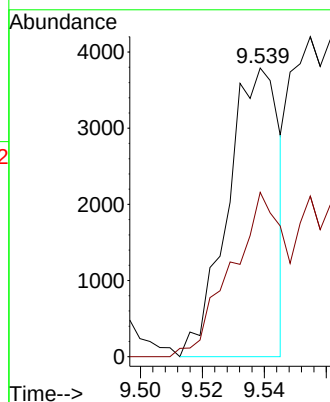
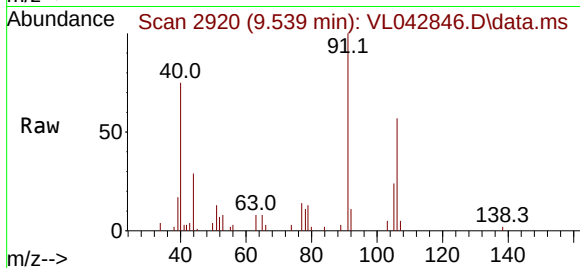
VSTDIC0.1

Tgt Ion: 91 Resp: 4356

Ion Ratio Lower Upper

91 100

106 114.3 0.0 0.0#



#60

o-Xylene

Concen: 0.106 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.000 min

Lab File: VL042846.D

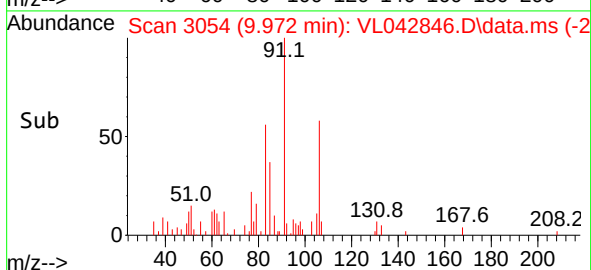
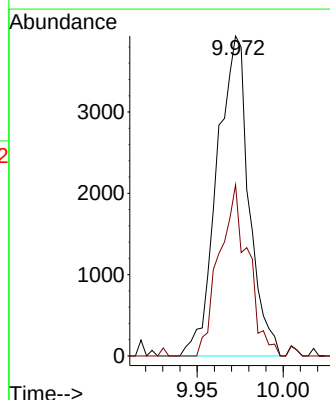
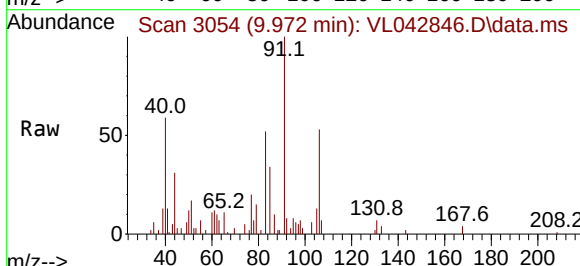
Acq: 13 Aug 2025 10:53

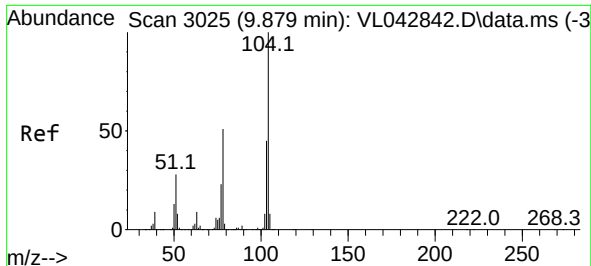
Tgt Ion: 91 Resp: 5090

Ion Ratio Lower Upper

91 100

106 49.7 21.8 65.4

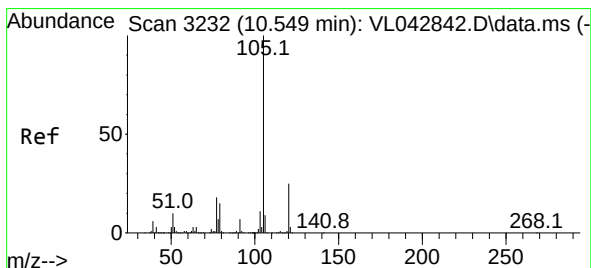
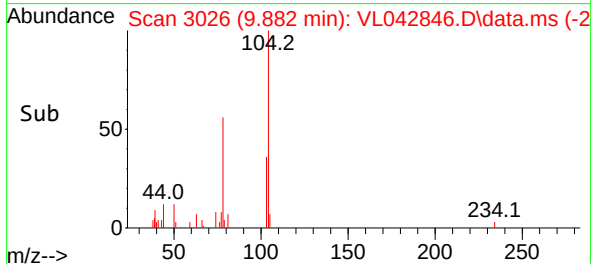
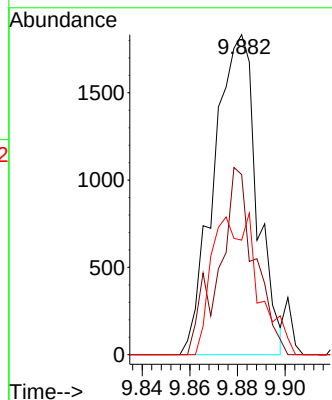
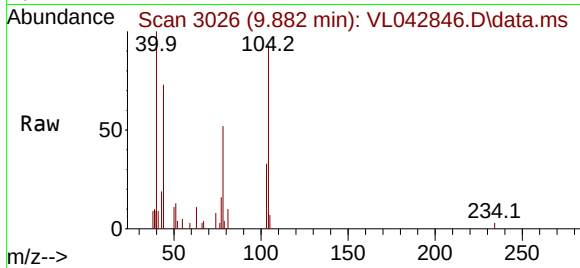




#61
Styrene
Concen: 0.103 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

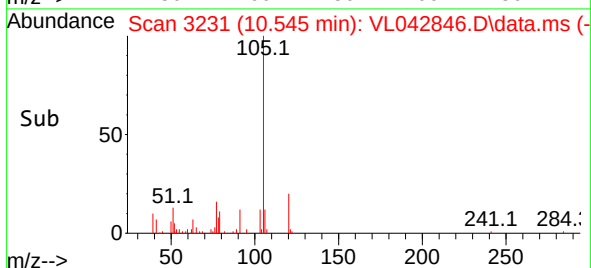
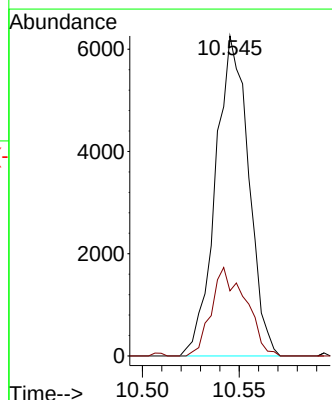
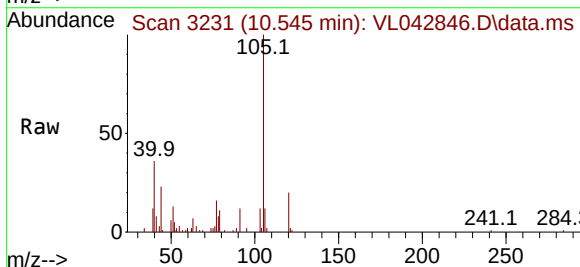
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

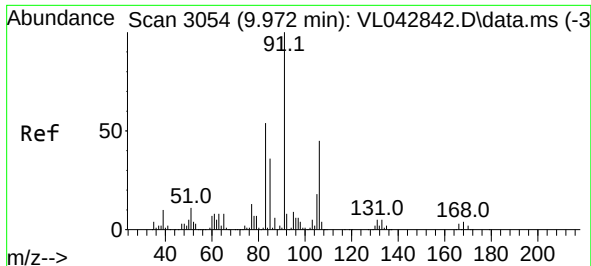
Tgt Ion:104 Resp: 2306
Ion Ratio Lower Upper
104 100
78 48.8 40.6 61.0
103 46.2 37.7 56.5



#62
Isopropylbenzene
Concen: 0.106 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:105 Resp: 7444
Ion Ratio Lower Upper
105 100
120 28.9 20.6 30.8

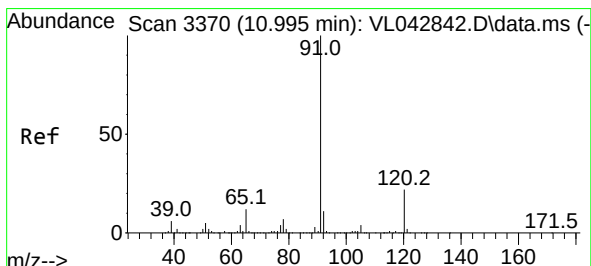
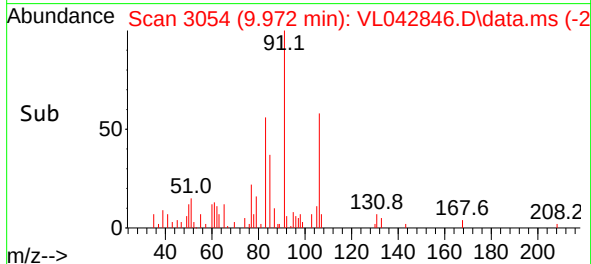
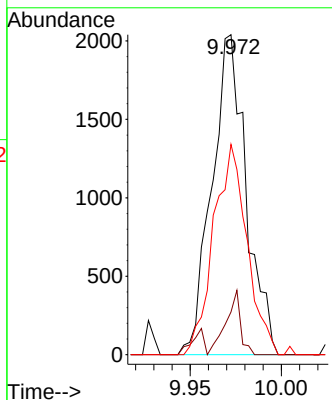
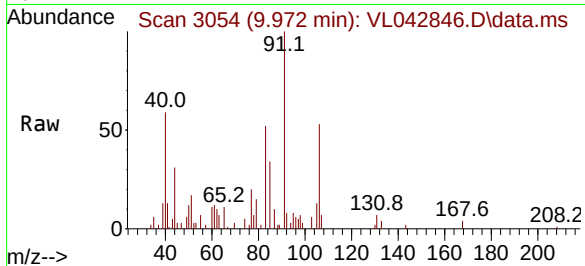




#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

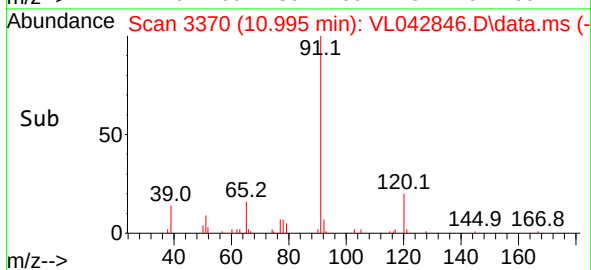
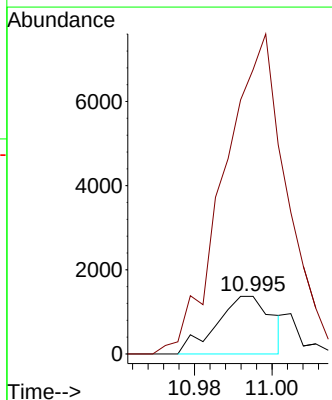
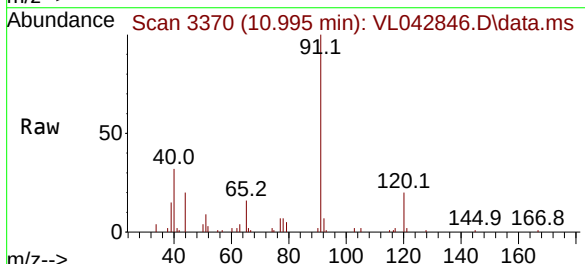
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

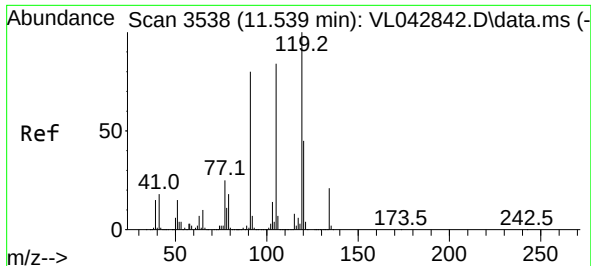
Tgt Ion: 83 Resp: 2672
Ion Ratio Lower Upper
83 100
131 11.4 4.8 14.3
85 64.3 32.3 96.8



#64
n-propylbenzene
Concen: 0.077 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 120 Resp: 1372
Ion Ratio Lower Upper
120 100
91 640.0 375.8 563.6#

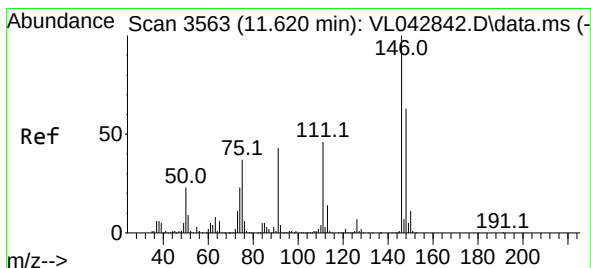
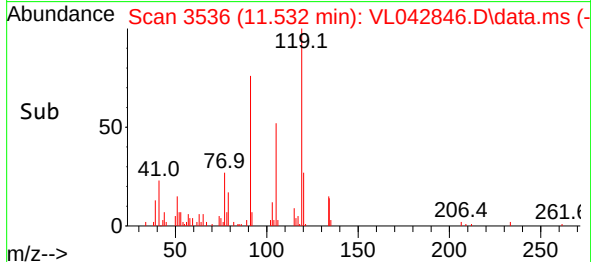
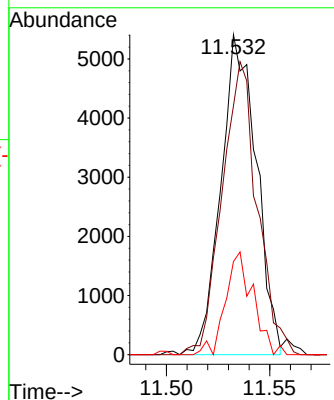
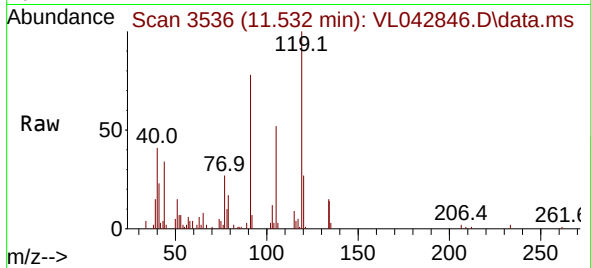




#65
tert-Butylbenzene
Concen: 0.104 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

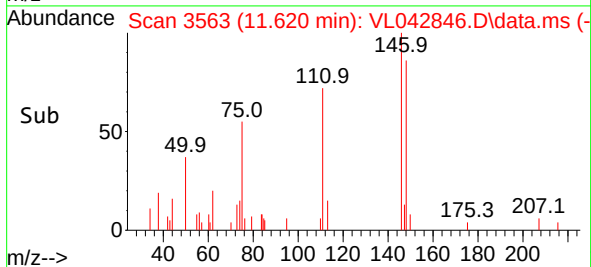
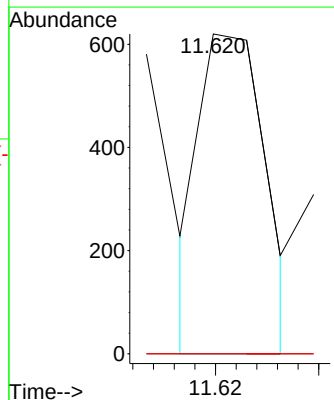
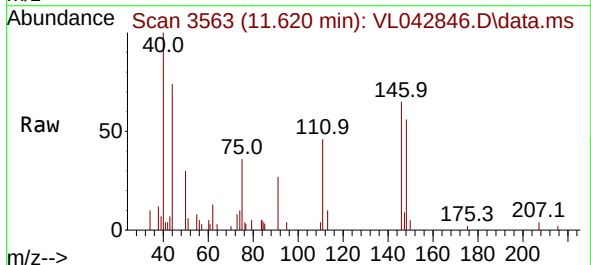
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

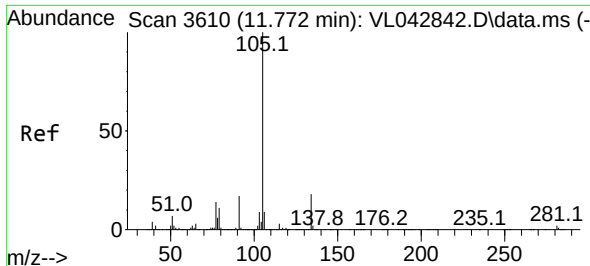
Tgt Ion:119 Resp: 6442
Ion Ratio Lower Upper
119 100
91 91.1 63.9 95.9
134 25.4 17.0 25.4



#66
Benzyl Chloride
Concen: 0.035 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 276
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.0 5.0 7.6#

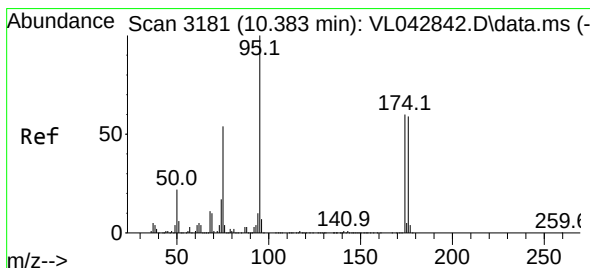
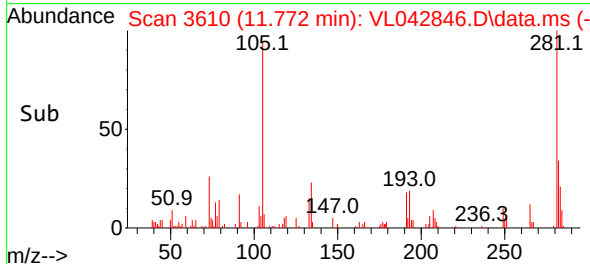
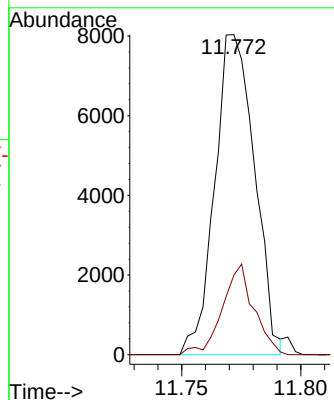
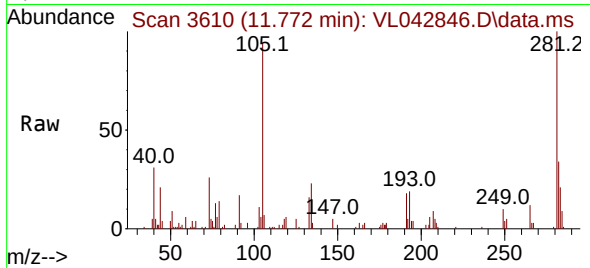




#67
 sec-Butylbenzene
 Concen: 0.107 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

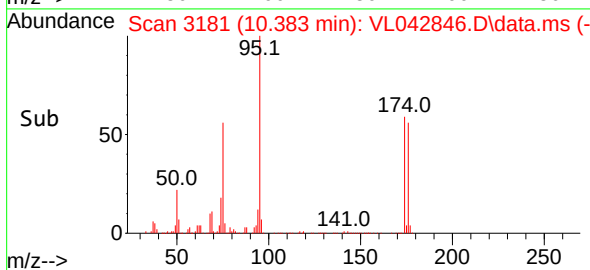
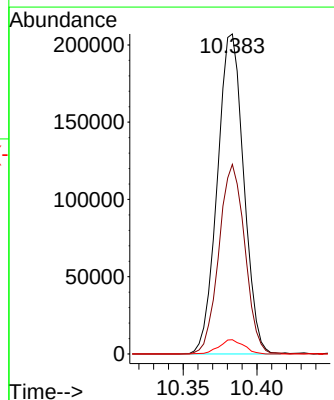
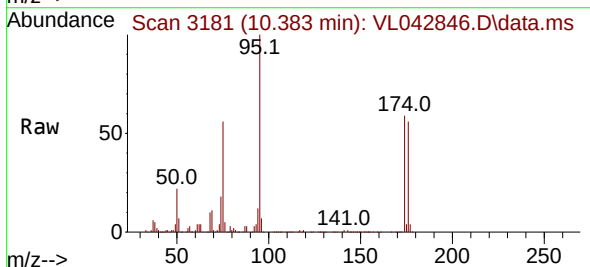
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

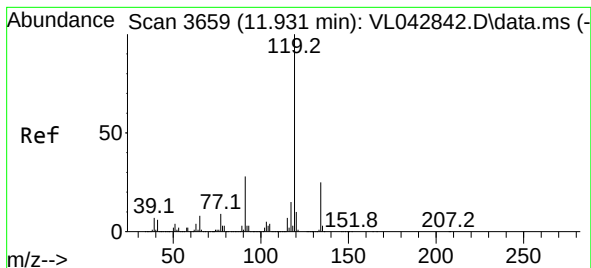
Tgt Ion:105 Resp: 9332
 Ion Ratio Lower Upper
 105 100
 134 22.4 14.9 22.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.948 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 95 Resp: 257439
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.2 3.8 5.8

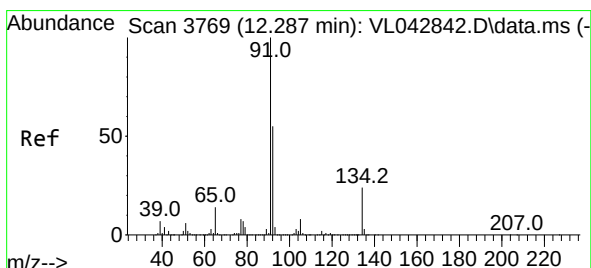
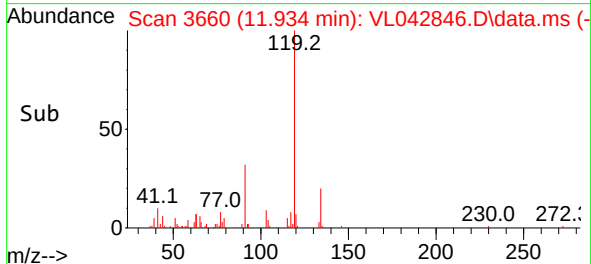
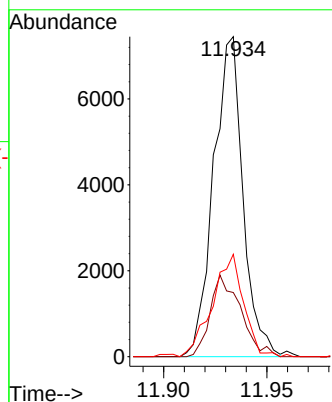
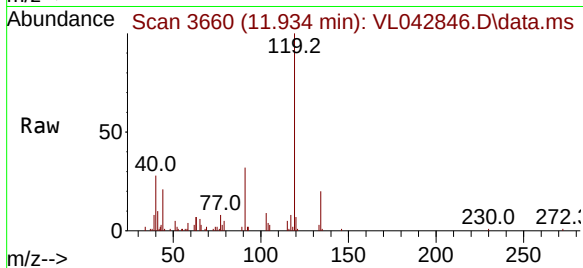




#69
p-Isopropyltoluene
Concen: 0.099 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

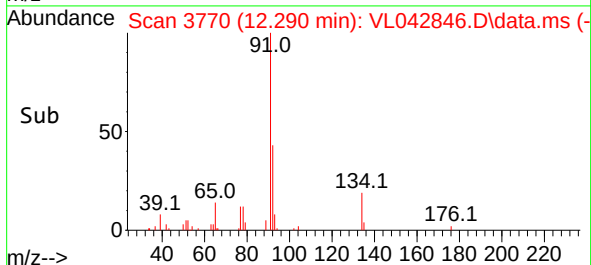
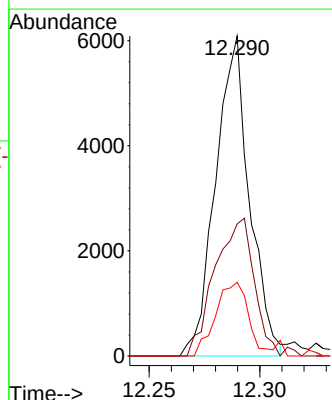
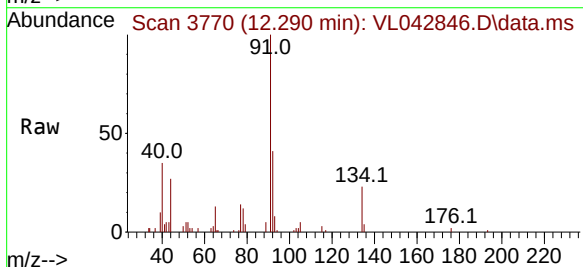
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

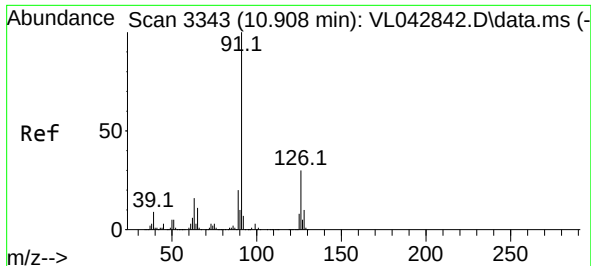
Tgt Ion:119 Resp: 7360
Ion Ratio Lower Upper
119 100
134 26.5 20.6 30.8
91 34.5 22.6 34.0#



#70
n-Butylbenzene
Concen: 0.087 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 6458
Ion Ratio Lower Upper
91 100
92 50.7 44.6 66.8
134 24.0 19.0 28.4

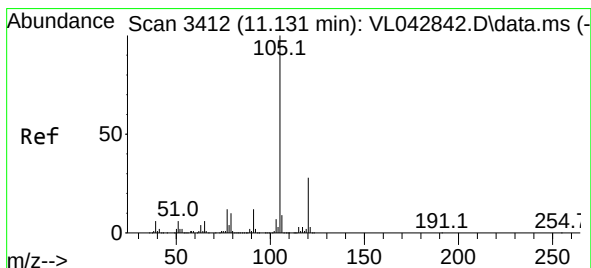
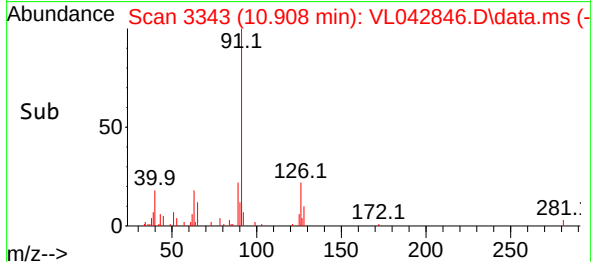
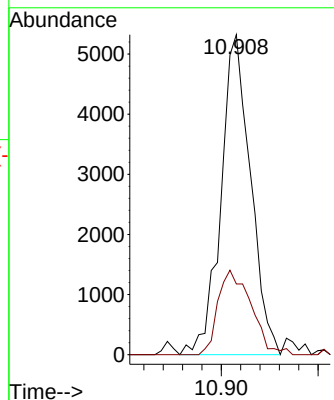
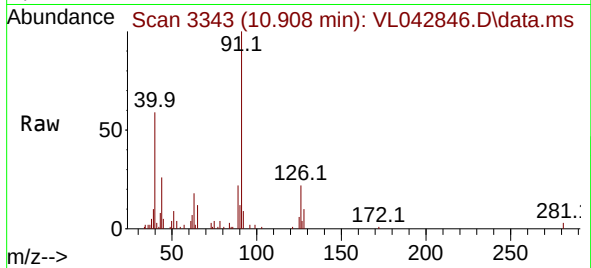




#71
2-Chlorotoluene
Concen: 0.104 ppbv
RT: 10.908 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

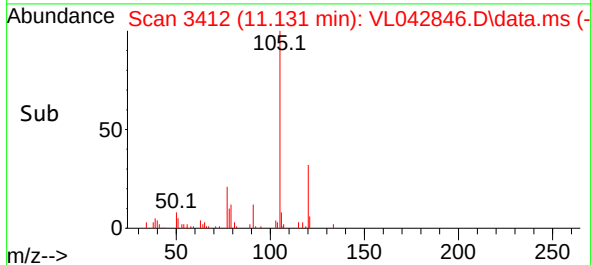
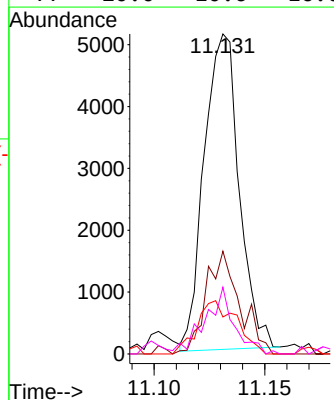
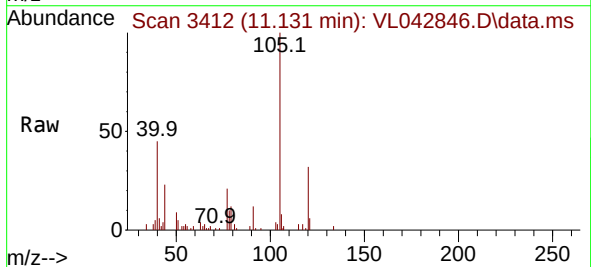
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

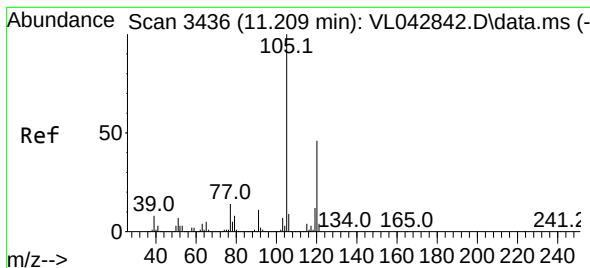
Tgt Ion: 91 Resp: 5660
Ion Ratio Lower Upper
91 100
126 29.8 12.0 47.8



#72
4-Ethyltoluene
Concen: 0.097 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 105 Resp: 5621
Ion Ratio Lower Upper
105 100
120 32.0 23.4 35.2
91 21.2 9.8 14.6#
77 20.0 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.107 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

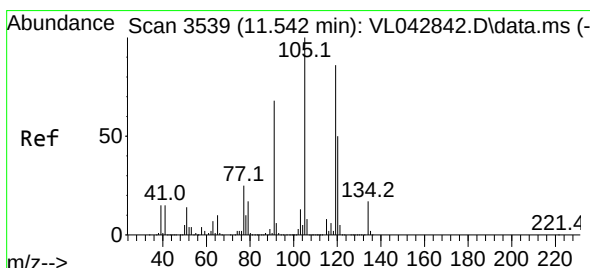
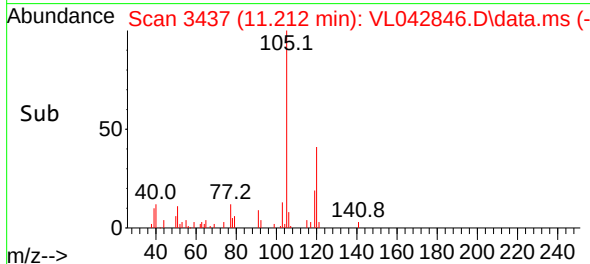
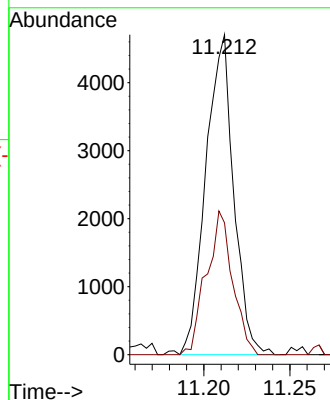
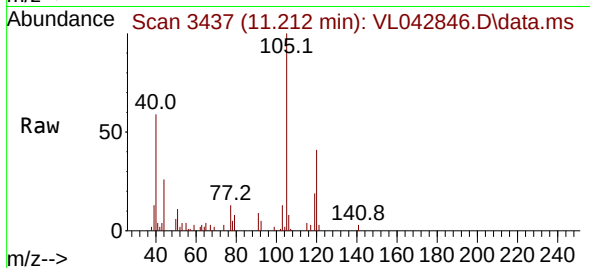
VSTDIC0.1

Tgt Ion:105 Resp: 5297

Ion Ratio Lower Upper

105 100

120 41.2 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.106 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion:105 Resp: 5786

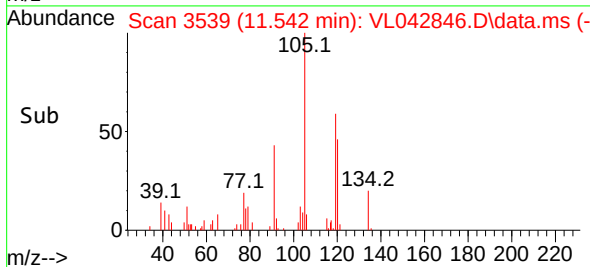
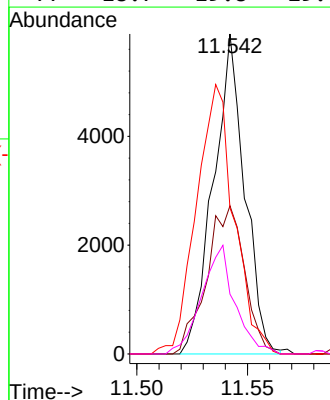
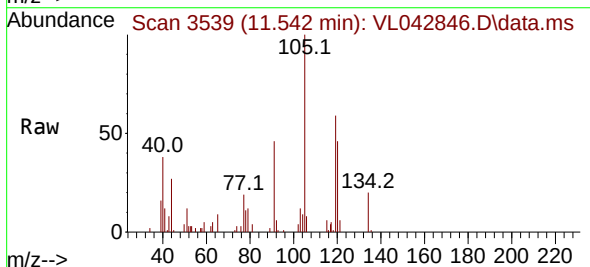
Ion Ratio Lower Upper

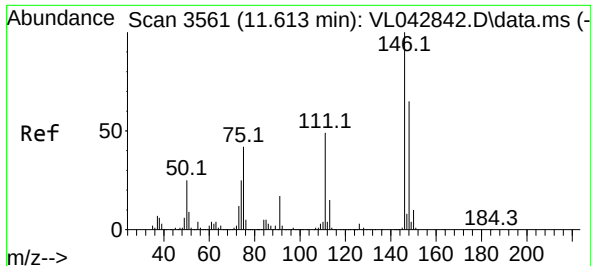
105 100

120 46.3 39.8 59.6

91 45.6 54.2 81.4#

77 18.7 19.8 29.6#

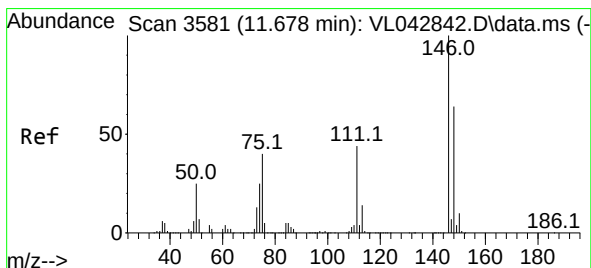
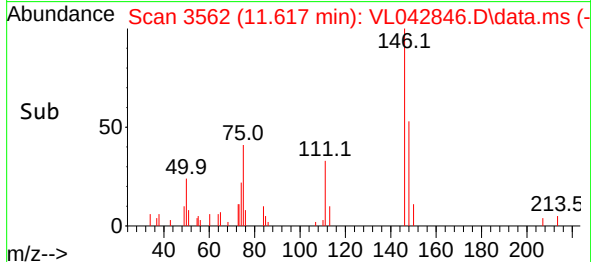
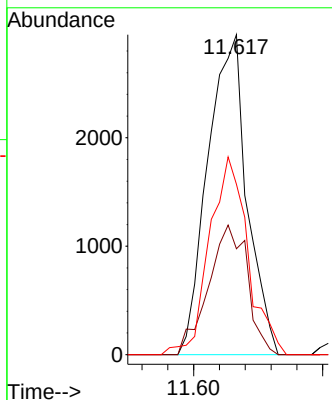
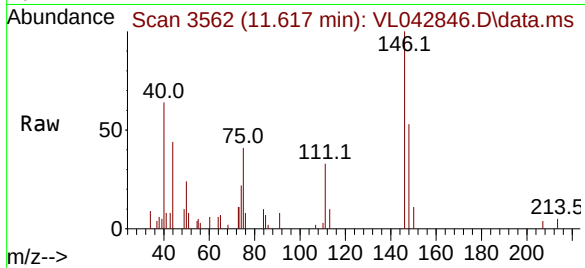




#75
1,3-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.617 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

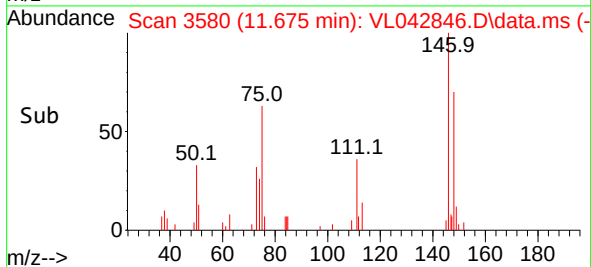
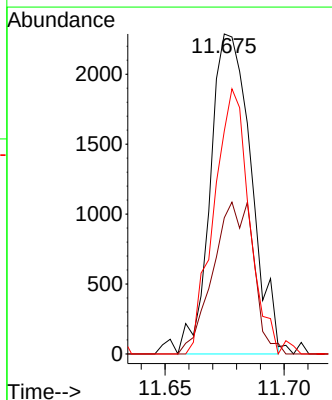
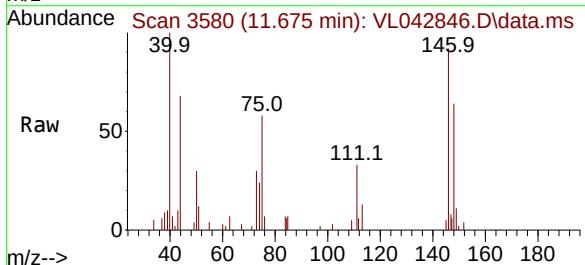
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

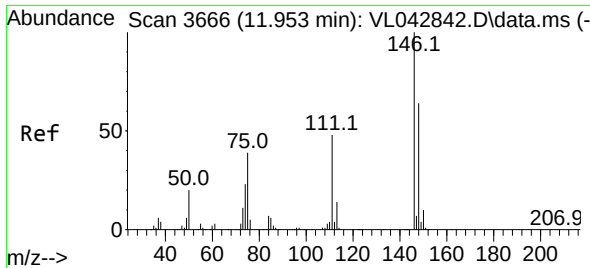
Tgt Ion:146 Resp: 3112
Ion Ratio Lower Upper
146 100
111 40.1 23.9 71.7
148 60.4 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 0.087 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:146 Resp: 2717
Ion Ratio Lower Upper
146 100
111 47.4 22.7 68.1
148 72.9 31.8 95.3

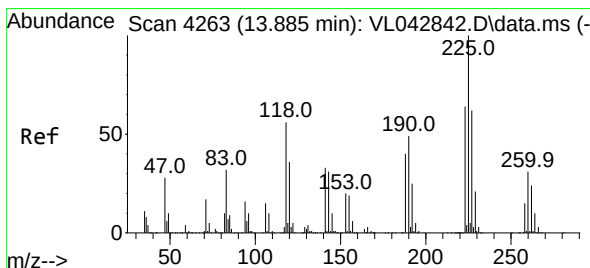
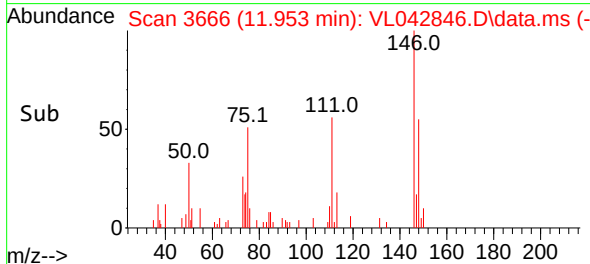
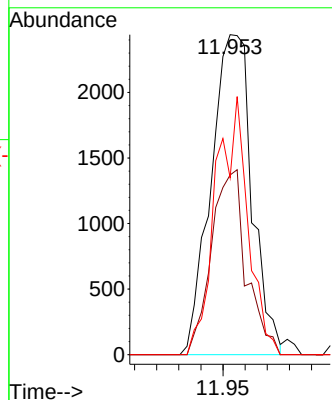
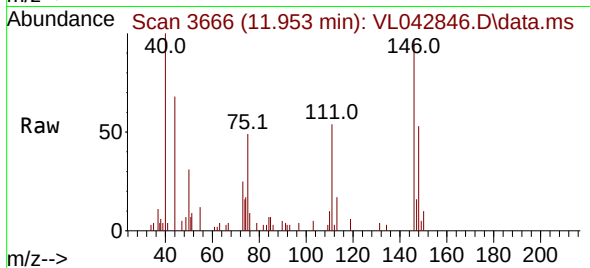




#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

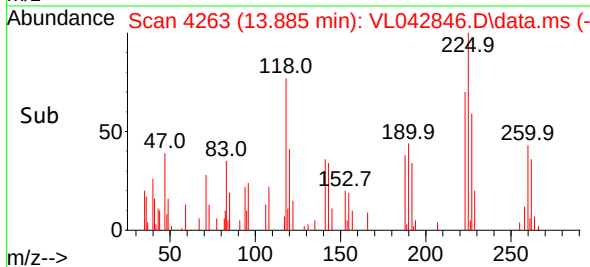
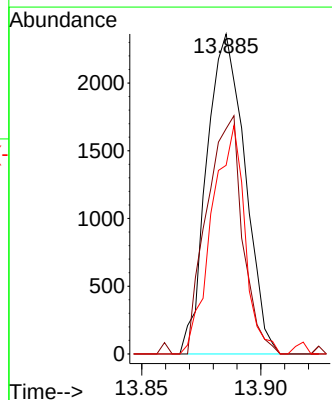
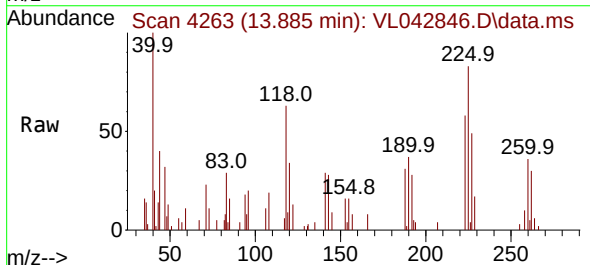
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

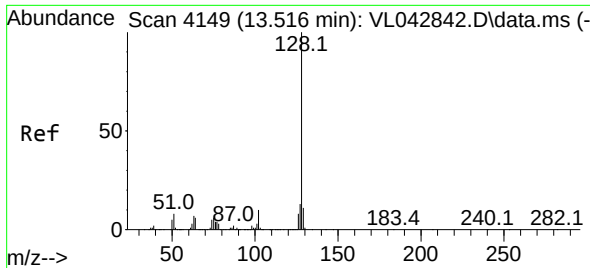
Tgt Ion:	146	Resp:	3151
Ion Ratio	Lower	Upper	
146	100		
111	49.2	24.6	74.0
148	63.3	32.0	96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.106 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:	225	Resp:	2639
Ion Ratio	Lower	Upper	
225	100		
223	70.3	51.4	77.2
227	62.8	51.9	77.9

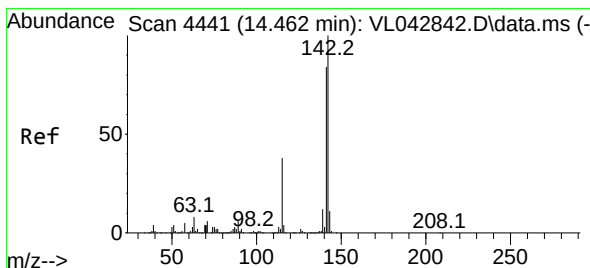
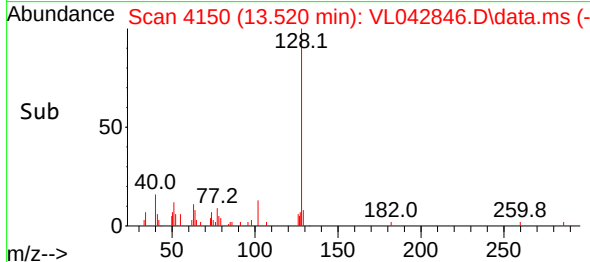
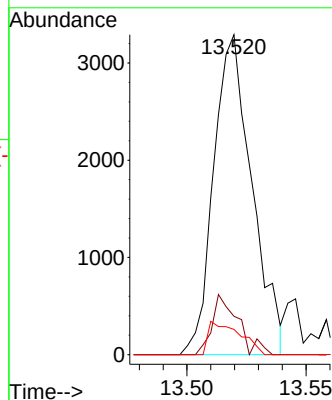
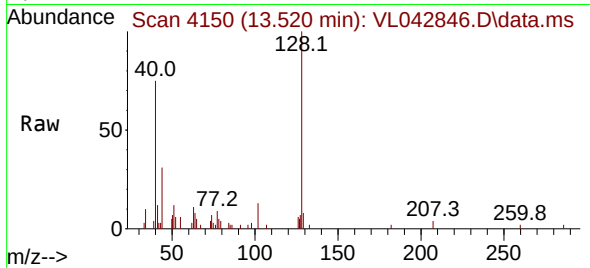




#79
Naphthalene
Concen: 0.075 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

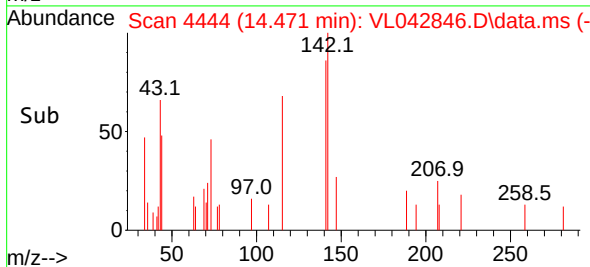
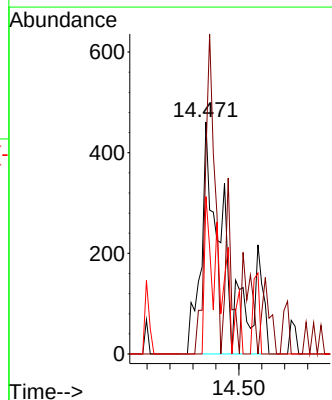
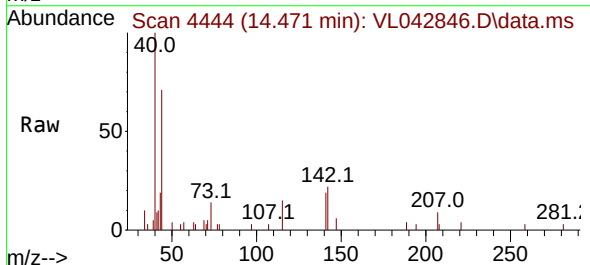
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

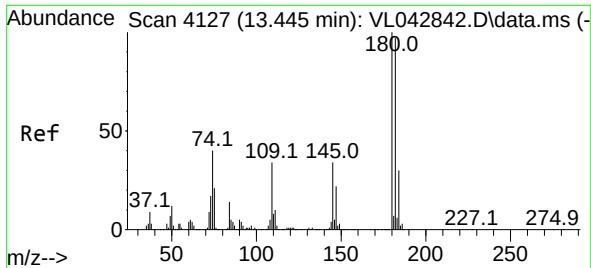
Tgt Ion:128 Resp: 3670
Ion Ratio Lower Upper
128 100
127 12.0 10.6 16.0
129 7.9 8.9 13.3#



#80
Naphthalene,2-methyl-
Concen: 0.037 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:142 Resp: 682
Ion Ratio Lower Upper
142 100
141 104.0 67.0 100.6#
115 43.4 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 0.054 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042846.D

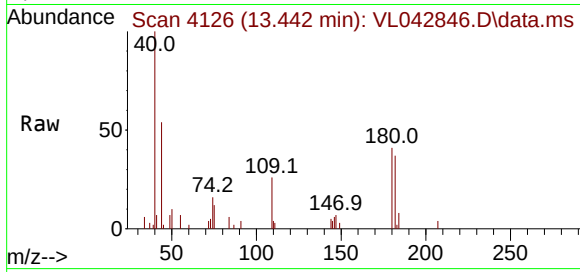
Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



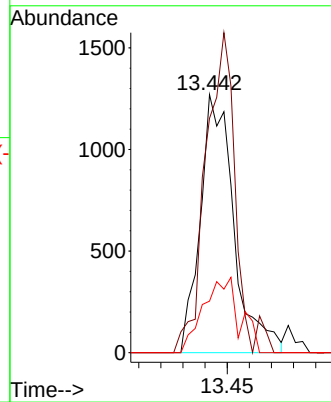
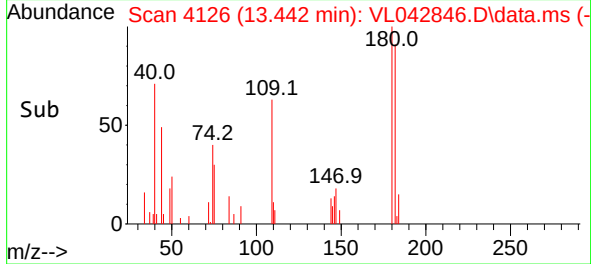
Tgt Ion:180 Resp: 1342

Ion Ratio Lower Upper

180 100

182 109.0 76.9 115.3

184 31.3 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Aug 14 01:50:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.557	85	549	0.031	ppbv	92
3) Chlorodifluoromethane	1.479	51	868	0.044	ppbv #	83
4) Chloromethane	1.537	50	498	0.069	ppbv #	70
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
6) Bromomethane	1.667	94	184	0.064	ppbv #	52
7) Chloroethane	1.706	64	240	0.086	ppbv #	1
8) Dichlorotetrafluoroethane	1.557	85	549	0.037	ppbv	85
9) Propene	1.602	41	687	0.080	ppbv	93
10) Heptane	4.994	43	492	0.021	ppbv #	1
11) Trichlorofluoromethane	1.884	101	420	0.024	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	592	0.042	ppbv #	78
13) Ethanol	1.722	45	370	0.435	ppbv #	32
14) Bromoethene	1.787	108	243	0.047	ppbv #	66
15) Acetone	1.845	43	1759	0.108	ppbv #	44
16) 1,3-Butadiene	1.612	39	303	0.041	ppbv #	1
17) tert-Butyl alcohol	2.039	59	167	0.009	ppbv #	71
18) 1,1-Dichloroethene	2.042	96	464	0.075	ppbv #	27
19) Isopropyl Alcohol	1.893	45	945	0.097	ppbv #	65
20) Methylene Chloride	2.068	84	2076	0.305	ppbv #	73
21) Allyl Chloride	2.104	41	953	0.083	ppbv #	50
22) trans-1,2-Dichloroethene	2.350	96	317	0.046	ppbv #	21
23) Vinyl Acetate	2.470	43	629	0.029	ppbv #	36
24) 1,1-Dichloroethane	2.411	63	388	0.027	ppbv #	71
25) Ethyl Acetate	2.839	43	126	0.003	ppbv #	1
26) Hexane	2.826	57	483	0.027	ppbv #	1
27) Carbon Disulfide	2.159	76	509	0.029	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	517	0.056	ppbv #	1
29) Chloroform	2.855	83	902	0.035	ppbv	100
30) Cyclohexane	3.861	84	352	0.022	ppbv #	1
31) cis-1,2-Dichloroethene	2.729	61	497	0.027	ppbv #	73
32) 1,1,1-Trichloroethane	3.379	97	493	0.018	ppbv #	31
34) 2-Butanone	2.567	43	422	0.016	ppbv #	52
35) Carbon Tetrachloride	3.774	117	756	0.028	ppbv #	68
36) Benzene	3.670	78	1185	0.032	ppbv #	90
37) 1,2-Dichloroethane	3.227	62	792	0.041	ppbv #	94
38) Trichloroethene	4.560	130	363	0.021	ppbv #	45
39) 1,2-Dichloropropane	3.968	63	93873	6.881	ppbv #	27
40) 1,4-Dioxane	4.641	88	105	0.016	ppbv #	1
41) Tetrahydrofuran	3.059	42	127	0.009	ppbv #	36
42) Bromodichloromethane	4.499	83	271	0.009	ppbv #	91
43) Methyl Methacrylate	4.900	69	270	0.018	ppbv #	1
44) 2,2,4-Trimethylpentane	4.651	57	726	0.012	ppbv #	43
45) t-1,3-Dichloropropene	6.428	75	162	0.009	ppbv #	1

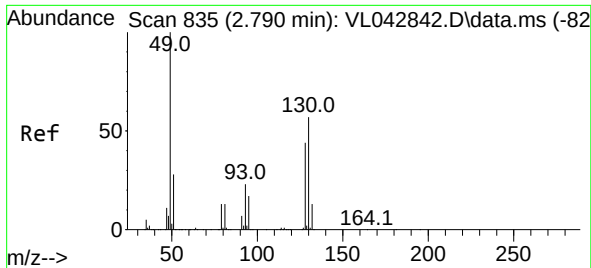
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 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Aug 14 01:50:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	343	0.016	ppbv #	65
47) 1,1,2-Trichloroethane	6.593	97	30	0.002	ppbv #	27
48) Dibromochloromethane	7.399	129	593	0.025	ppbv	71
49) Bromoform	9.493	173	431	0.022	ppbv	93
50) 4-Methyl-2-Pentanone	5.768	43	54	0.002	ppbv #	38
51) 2-Hexanone	7.444	43	92	0.003	ppbv #	27
52) Tetrachloroethene	8.241	164	262	0.019	ppbv #	67
53) Toluene	6.855	91	39	0.001	ppbv	99
54) 1,2-Dibromoethane	7.668	107	313	0.015	ppbv #	56
56) 1,1,1,2-Tetrachloroethane	8.953	131	49	0.003	ppbv #	8
57) Chlorobenzene	8.943	112	561	0.017	ppbv #	70
58) Ethyl Benzene	9.529	91	267	0.004	ppbv	96
59) m/p-Xylene	9.542	91	1589	0.034	ppbv #	100
60) o-Xylene	9.975	91	1722	0.036	ppbv	90
61) Styrene	9.888	104	354	0.016	ppbv #	28
62) Isopropylbenzene	10.548	105	1945	0.028	ppbv #	87
63) 1,1,2,2-Tetrachloroethane	9.979	83	451	0.017	ppbv #	1
64) n-propylbenzene	10.998	120	470	0.027	ppbv #	63
65) tert-Butylbenzene	11.539	119	2234	0.037	ppbv #	98
66) Benzyl Chloride	11.626	91	27	0.003	ppbv #	65
67) sec-Butylbenzene	11.778	105	2703	0.032	ppbv #	64
69) p-Isopropyltoluene	11.934	119	2136	0.029	ppbv #	88
70) n-Butylbenzene	12.296	91	829	0.011	ppbv #	4
71) 2-Chlorotoluene	10.911	91	1870	0.035	ppbv	97
72) 4-Ethyltoluene	11.134	105	1543	0.027	ppbv #	81
73) 1,3,5-Trimethylbenzene	11.212	105	1716	0.035	ppbv	96
74) 1,2,4-Trimethylbenzene	11.545	105	1610	0.030	ppbv #	76
75) 1,3-Dichlorobenzene	11.623	146	182	0.006	ppbv #	23
76) 1,4-Dichlorobenzene	11.681	146	596	0.019	ppbv	70
77) 1,2-Dichlorobenzene	11.953	146	701	0.024	ppbv	87
78) Hexachloro-1,3-Butadiene	13.888	225	744	0.030	ppbv #	84
79) Naphthalene	13.523	128	998	0.021	ppbv #	87
80) Naphthalene,2-methyl-	14.536	142	73	0.004	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.461	180	114	0.005	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.793 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

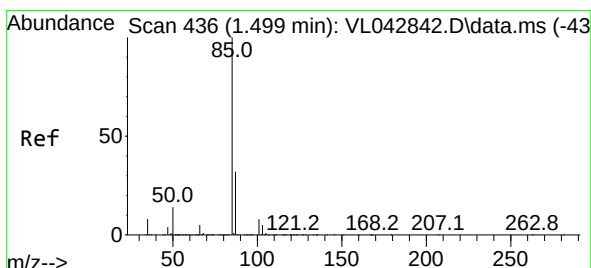
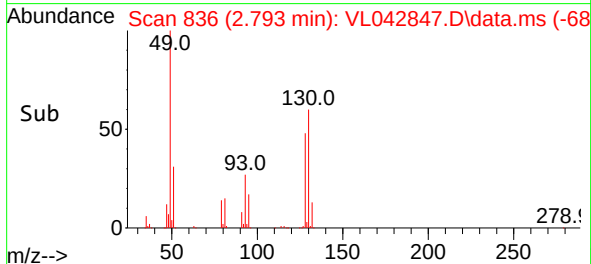
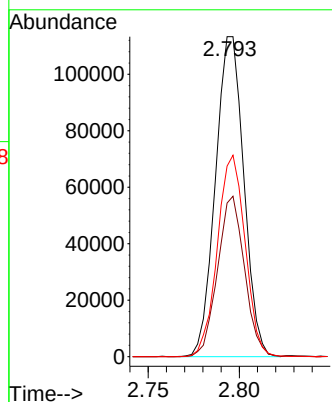
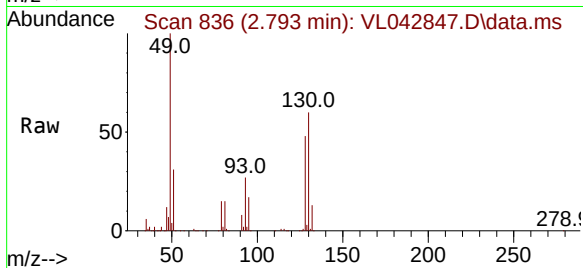
Tgt Ion: 49 Resp: 122705

Ion Ratio Lower Upper

49 100

128 47.7 23.7 71.1

130 61.6 30.6 91.6



#2

Dichlorodifluoromethane

Concen: 0.031 ppbv

RT: 1.557 min Scan# 454

Delta R.T. 0.058 min

Lab File: VL042847.D

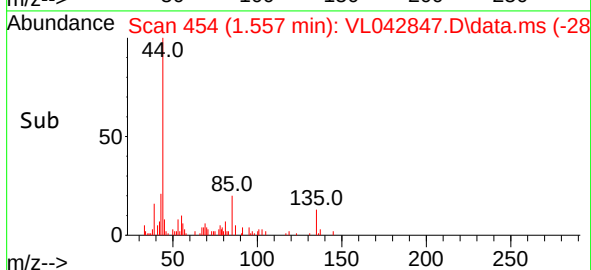
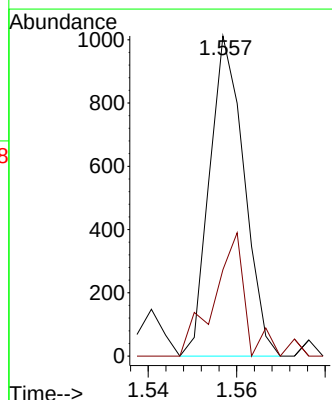
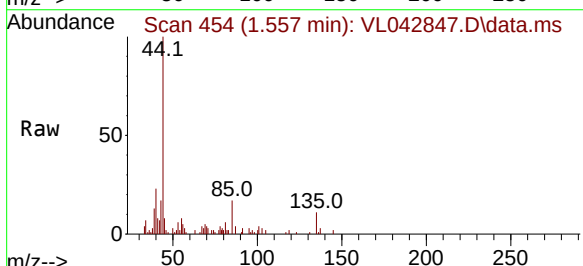
Acq: 13 Aug 2025 11:30

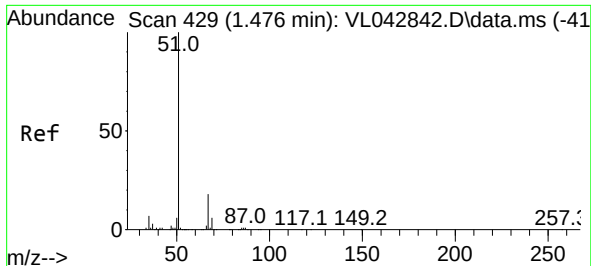
Tgt Ion: 85 Resp: 549

Ion Ratio Lower Upper

85 100

87 27.0 25.3 37.9

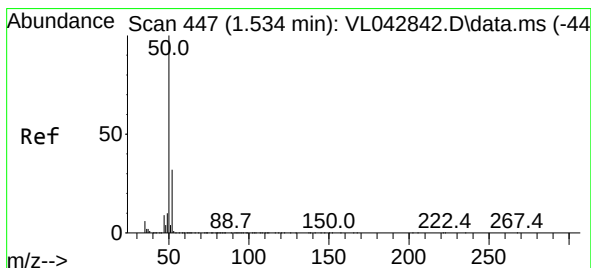
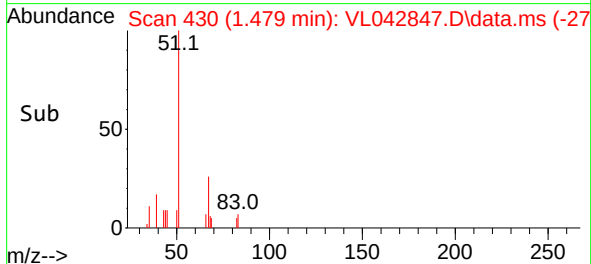
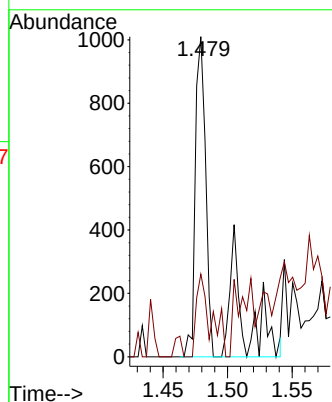
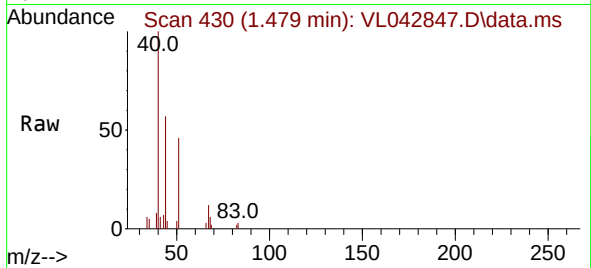




#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

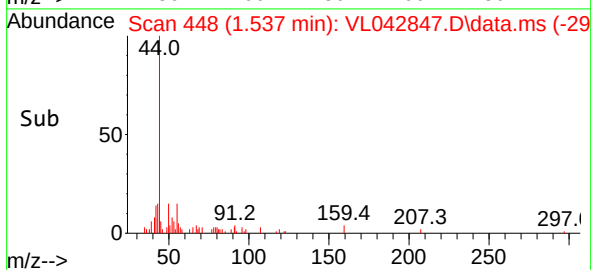
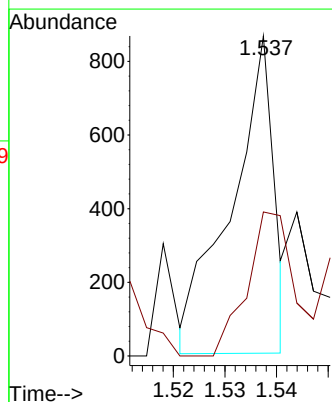
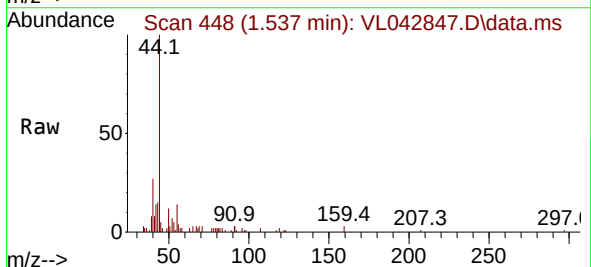
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

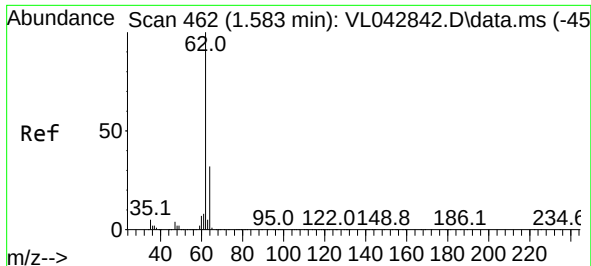
Tgt Ion: 51 Resp: 868
Ion Ratio Lower Upper
51 100
67 26.4 14.9 22.3#



#4
Chloromethane
Concen: 0.069 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 50 Resp: 498
Ion Ratio Lower Upper
50 100
52 49.3 25.9 38.9#

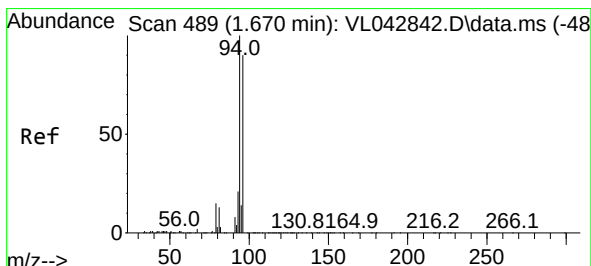
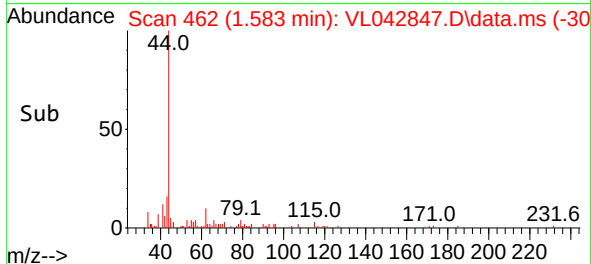
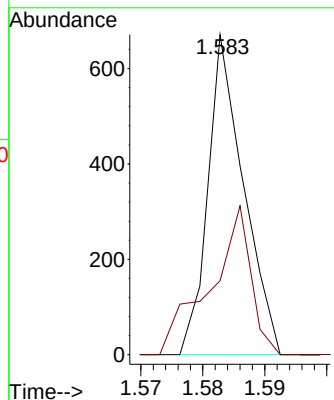
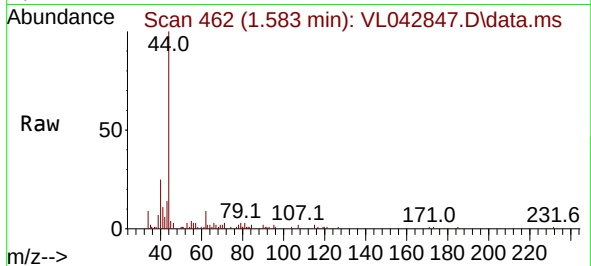




#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

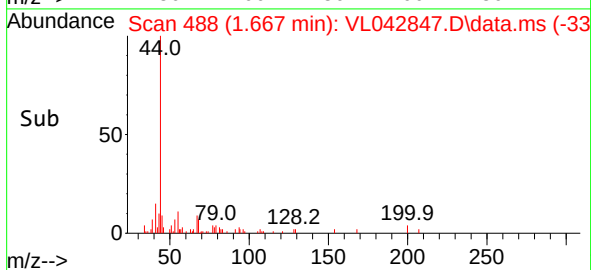
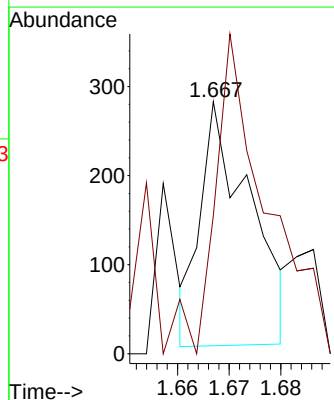
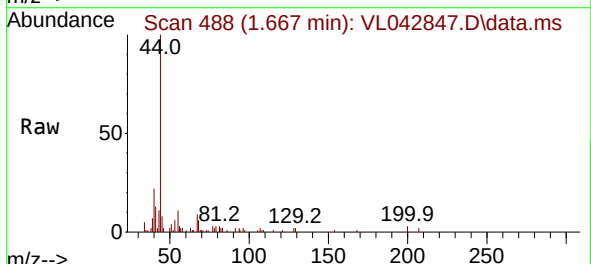
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

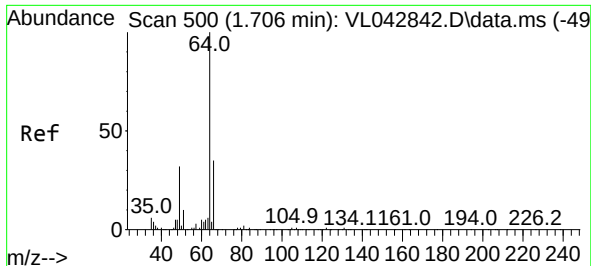
Tgt Ion: 62 Resp: 268
 Ion Ratio Lower Upper
 62 100
 64 21.2 25.4 38.2#



#6
 Bromomethane
 Concen: 0.064 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 94 Resp: 184
 Ion Ratio Lower Upper
 94 100
 96 45.2 72.1 108.1#

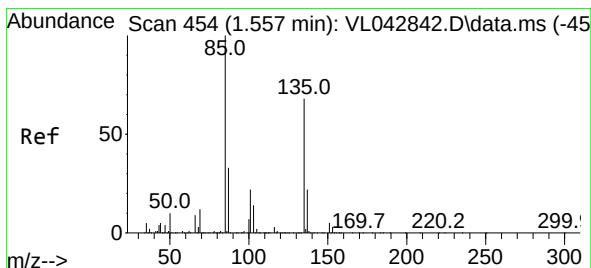
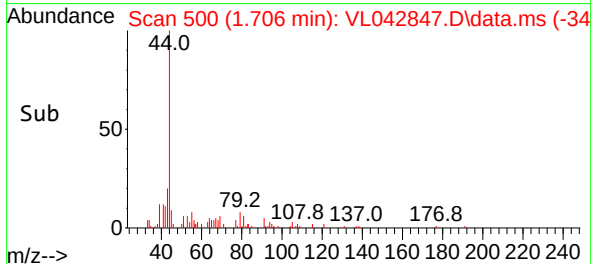
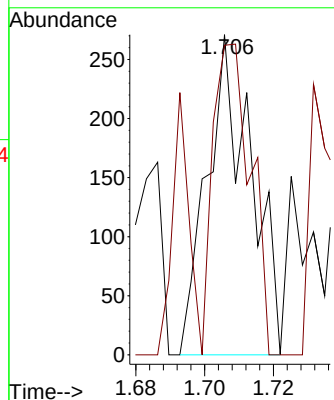
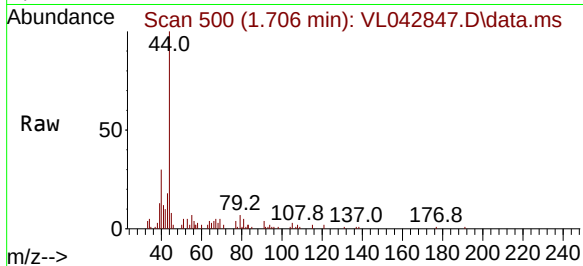




#7
Chloroethane
Concen: 0.086 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

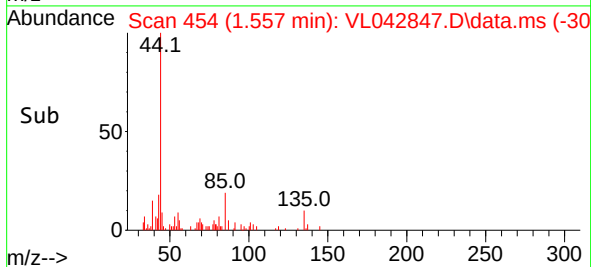
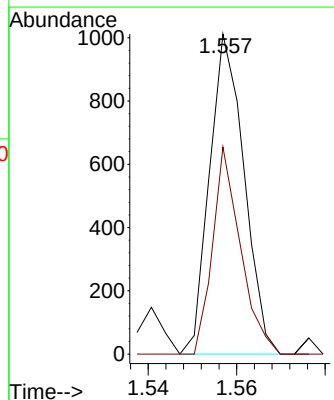
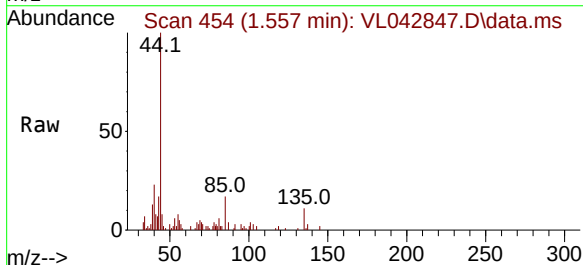
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

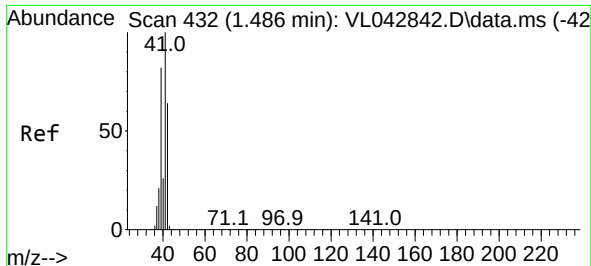
Tgt Ion: 64 Resp: 240
Ion Ratio Lower Upper
64 100
66 96.7 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549
Ion Ratio Lower Upper
85 100
135 52.3 51.2 76.8





#9

Propene

Concen: 0.080 ppbv

RT: 1.602 min Scan# 41

Delta R.T. 0.116 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

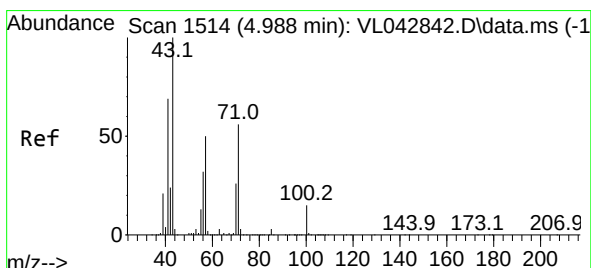
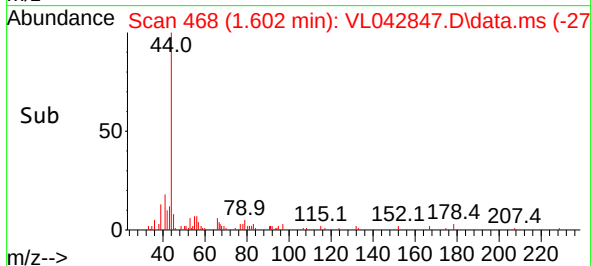
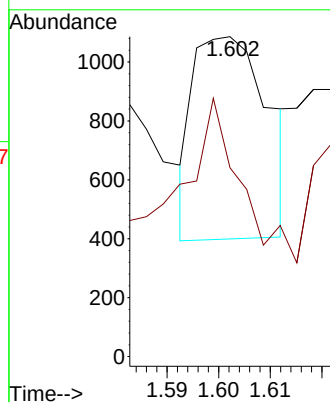
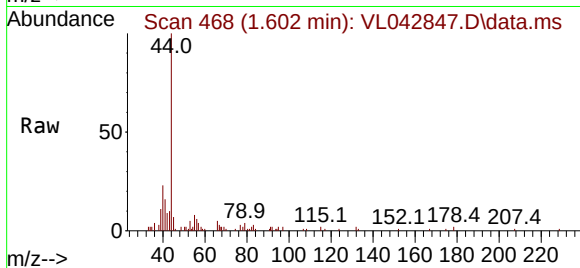
VSTDIC0.03

Tgt Ion: 41 Resp: 687

Ion Ratio Lower Upper

41 100

42 72.1 53.0 79.4



#10

Heptane

Concen: 0.021 ppbv

RT: 4.994 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VL042847.D

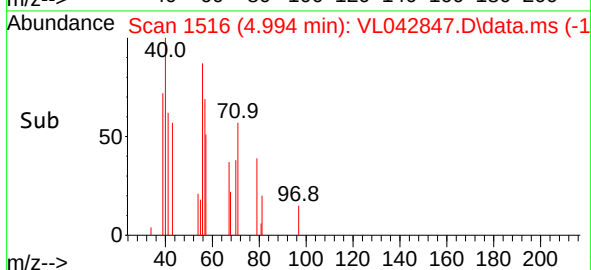
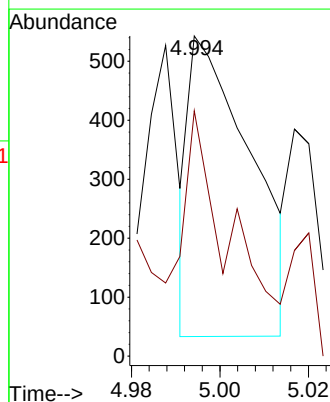
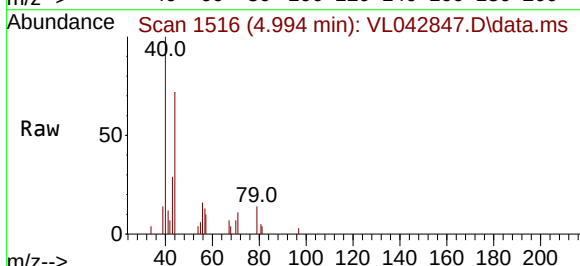
Acq: 13 Aug 2025 11:30

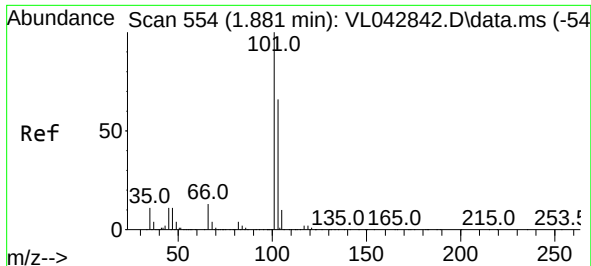
Tgt Ion: 43 Resp: 492

Ion Ratio Lower Upper

43 100

57 137.2 41.4 62.0#

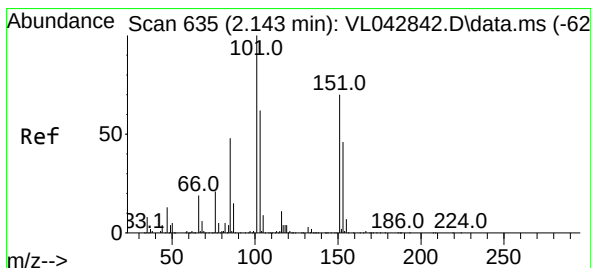
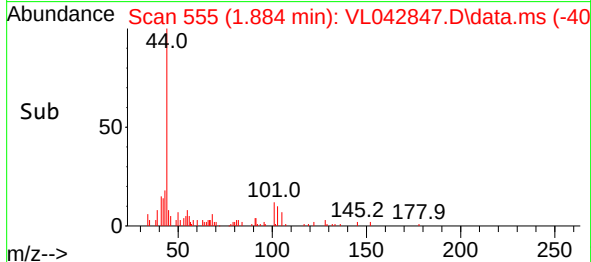
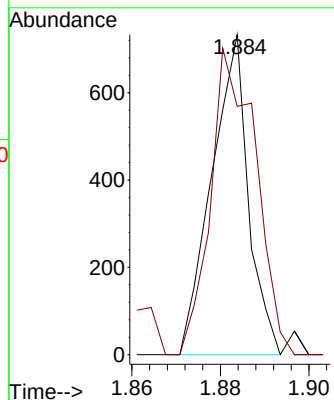
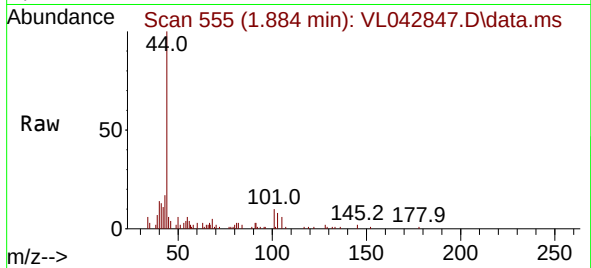




#11
 Trichlorofluoromethane
 Concen: 0.024 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

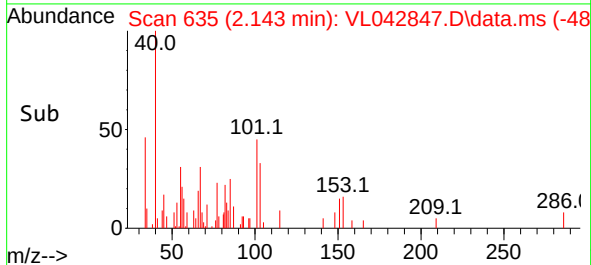
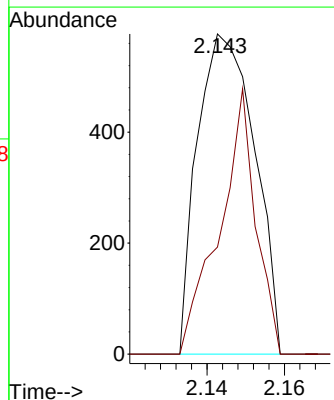
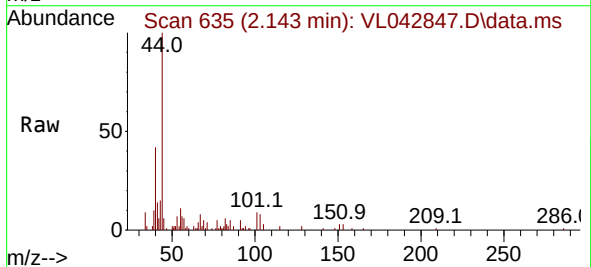
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

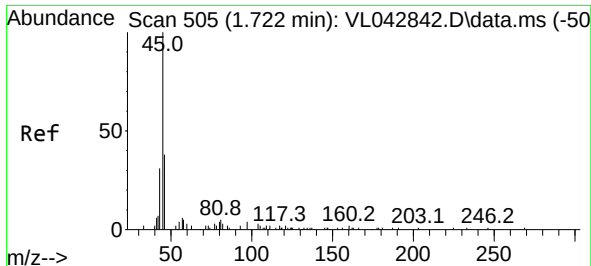
Tgt Ion:101 Resp: 420
 Ion Ratio Lower Upper
 101 100
 103 69.7 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.042 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion:101 Resp: 592
 Ion Ratio Lower Upper
 101 100
 151 52.5 56.4 84.6#

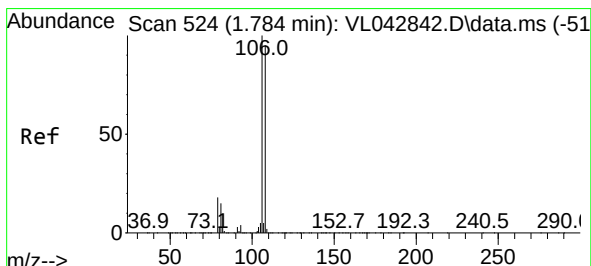
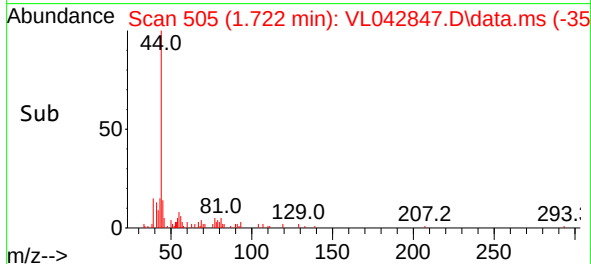
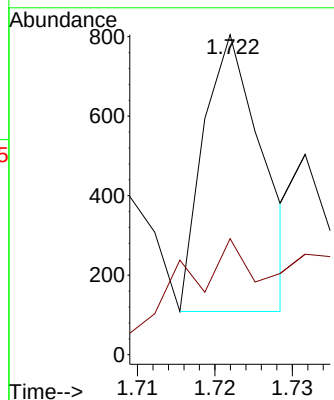
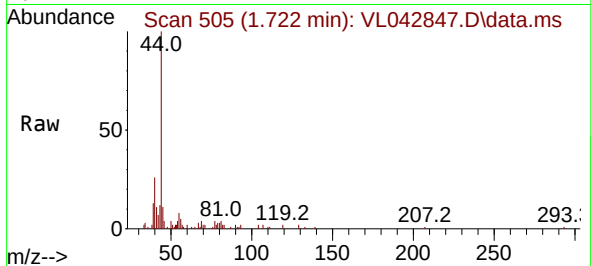




#13
Ethanol
Concen: 0.435 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

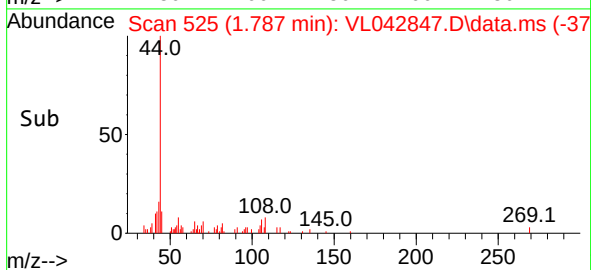
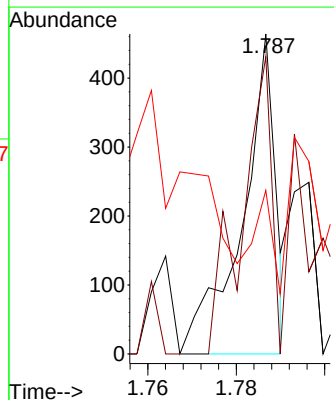
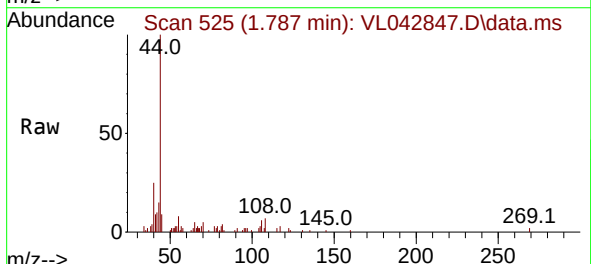
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

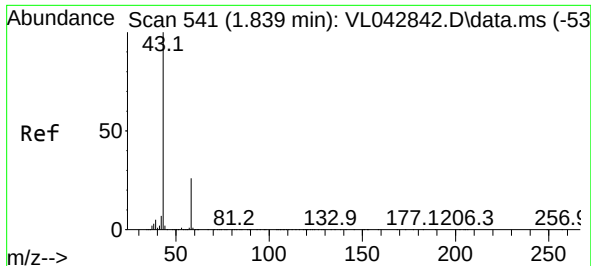
Tgt Ion: 45 Resp: 370
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9#



#14
Bromoethene
Concen: 0.047 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 108 Resp: 243
Ion Ratio Lower Upper
108 100
106 139.9 85.1 127.7#
79 0.0 16.3 24.5#

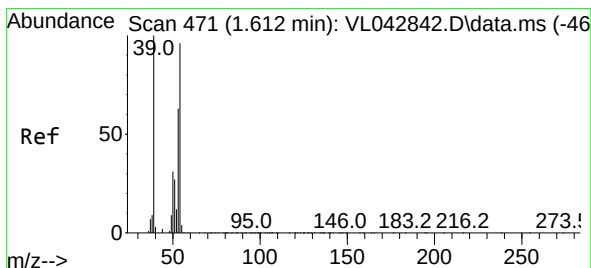
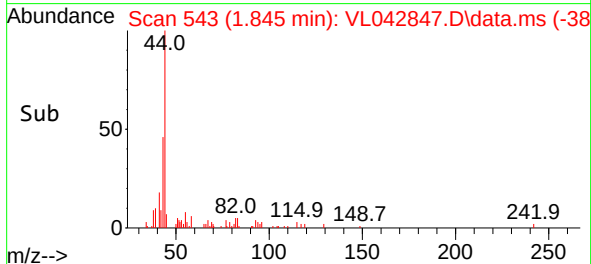
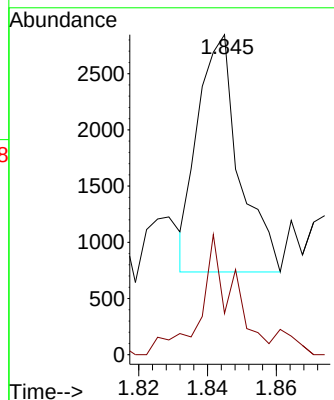
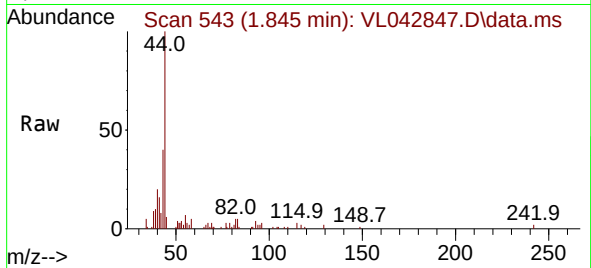




#15
Acetone
Concen: 0.108 ppbv
RT: 1.845 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

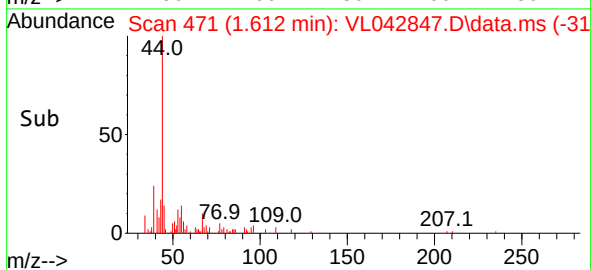
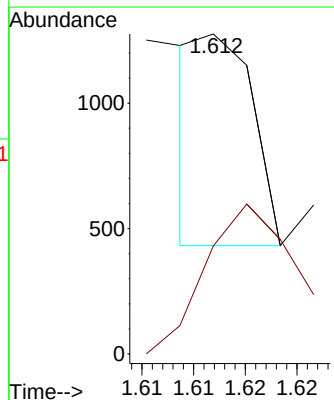
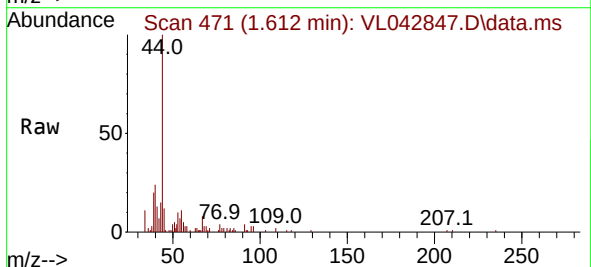
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

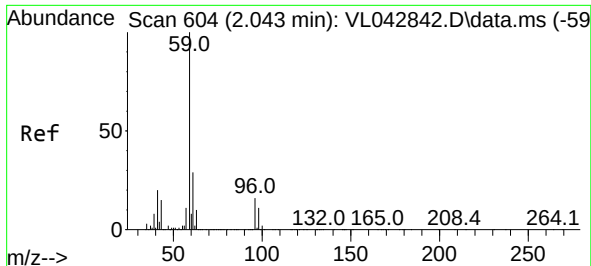
Tgt Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
58 57.4 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 39 Resp: 303
Ion Ratio Lower Upper
39 100
54 197.7 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.009 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

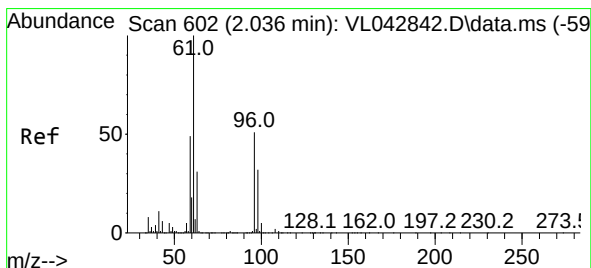
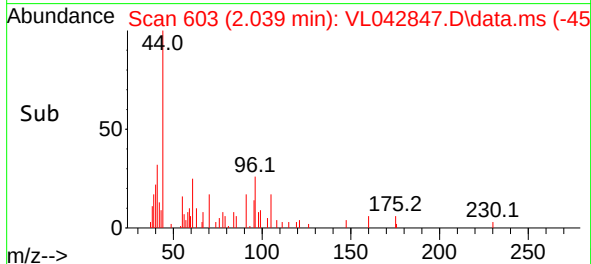
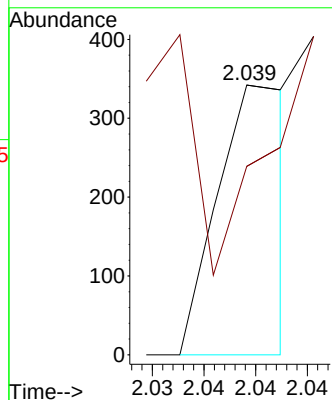
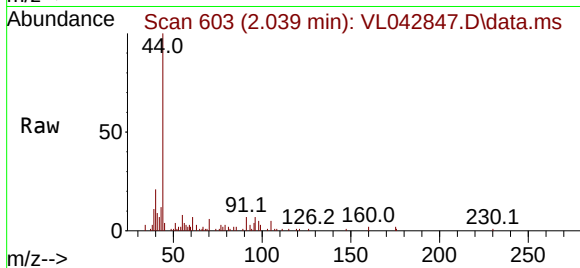
VSTDIC0.03

Tgt Ion: 59 Resp: 167

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.075 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

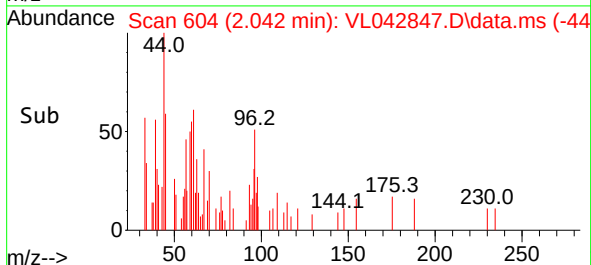
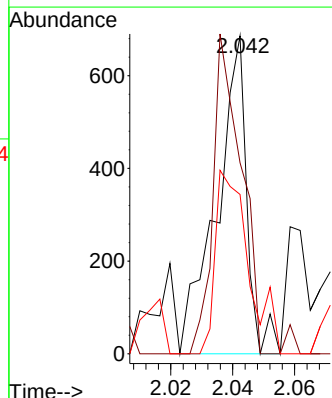
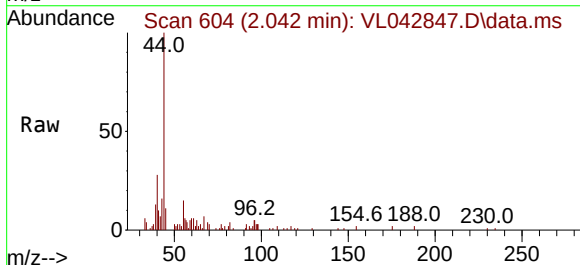
Tgt Ion: 96 Resp: 464

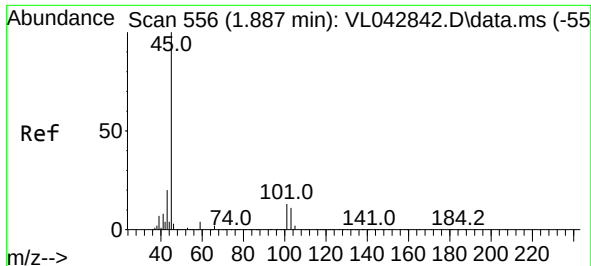
Ion Ratio Lower Upper

96 100

61 60.1 158.2 237.4#

98 50.1 50.6 76.0#

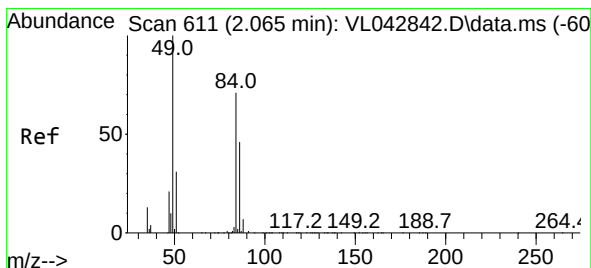
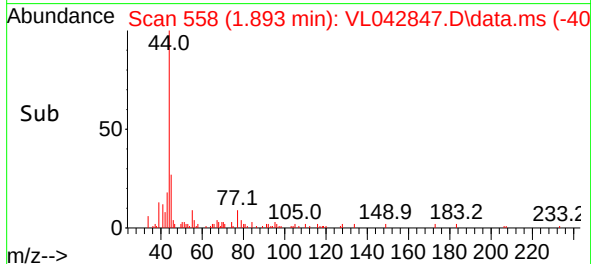
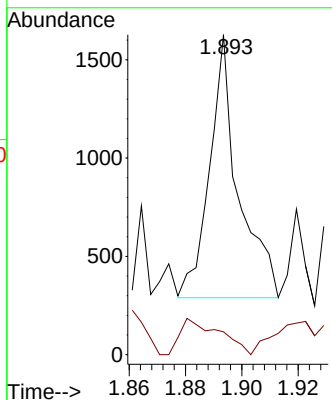
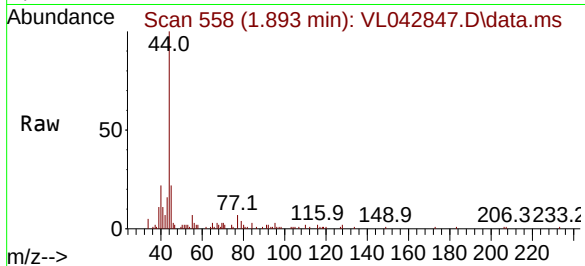




#19
Isopropyl Alcohol
Concen: 0.097 ppbv
RT: 1.893 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

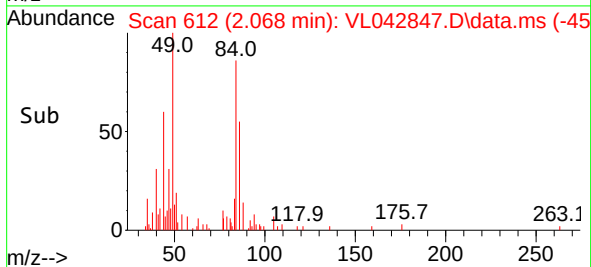
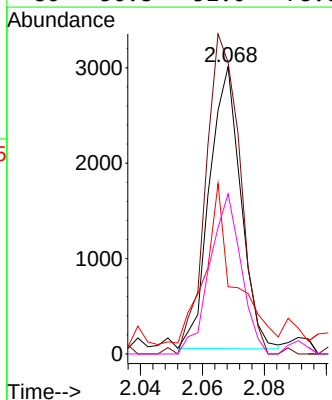
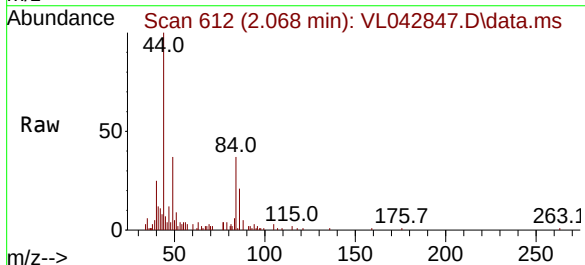
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

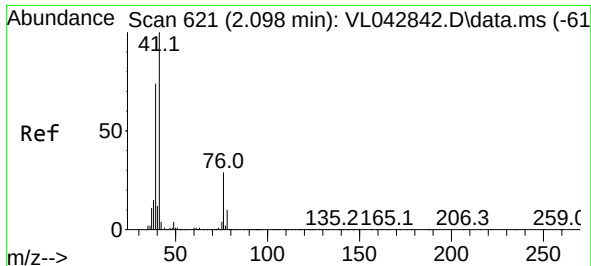
Tgt Ion: 45 Resp: 945
Ion Ratio Lower Upper
45 100
58 18.9 32.7 49.1#



#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 84 Resp: 2076
Ion Ratio Lower Upper
84 100
49 103.5 112.3 168.5#
51 20.0 36.0 54.0#
86 56.8 52.0 78.0

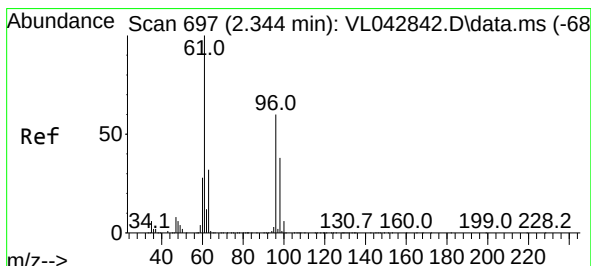
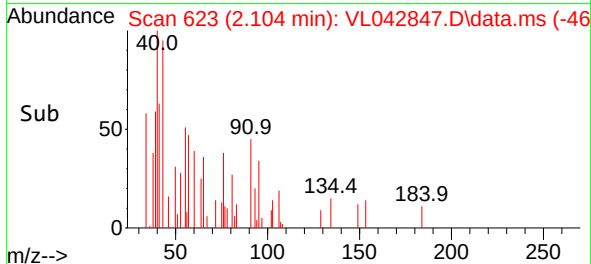
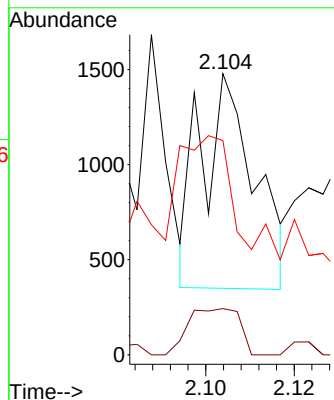
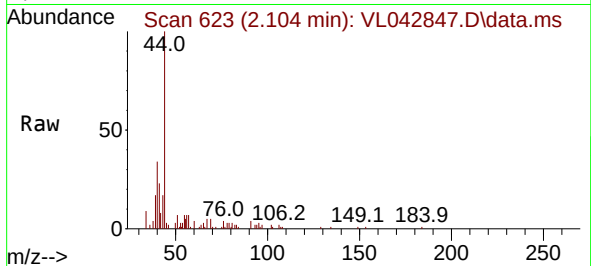




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

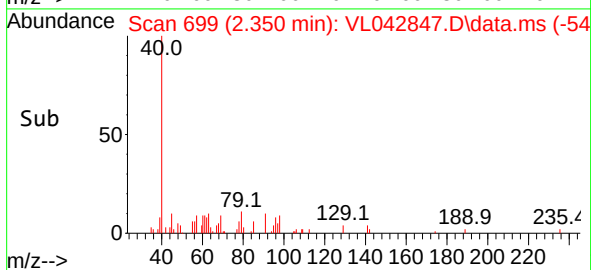
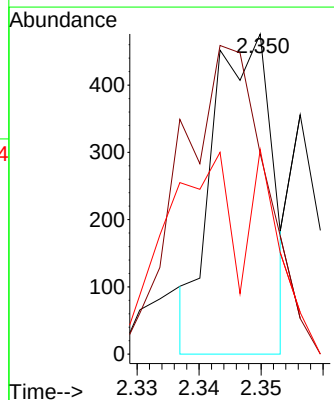
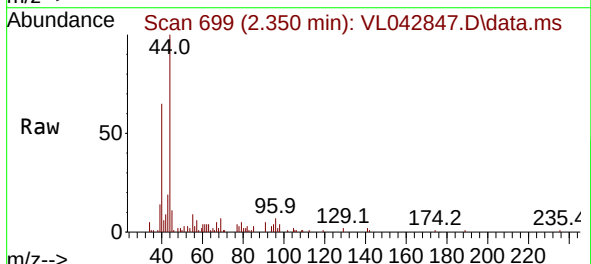
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

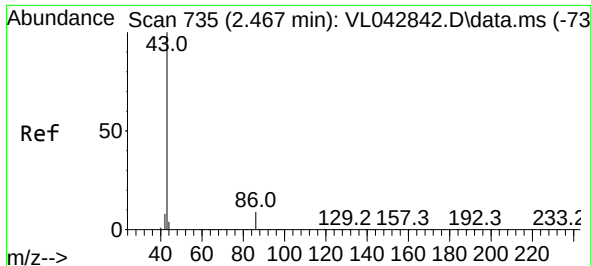
Tgt Ion: 41 Resp: 953
 Ion Ratio Lower Upper
 41 100
 76 26.5 23.9 35.9
 39 129.5 57.8 86.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.046 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 96 Resp: 317
 Ion Ratio Lower Upper
 96 100
 61 32.5 132.6 199.0#
 98 40.8 50.0 75.0#

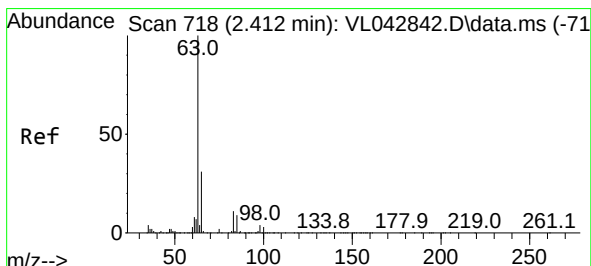
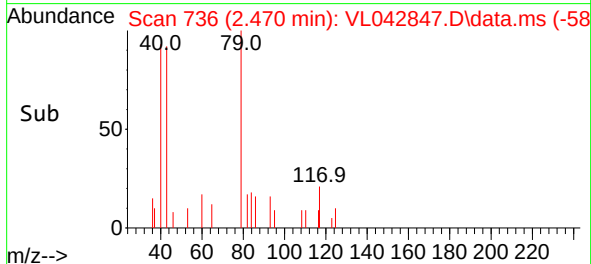
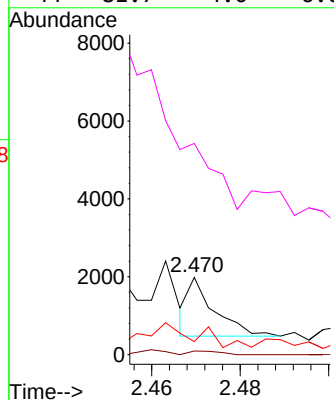
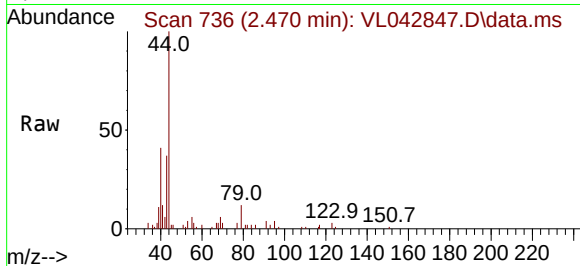




#23
 Vinyl Acetate
 Concen: 0.029 ppbv
 RT: 2.470 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

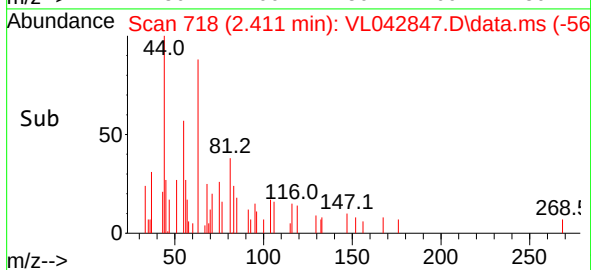
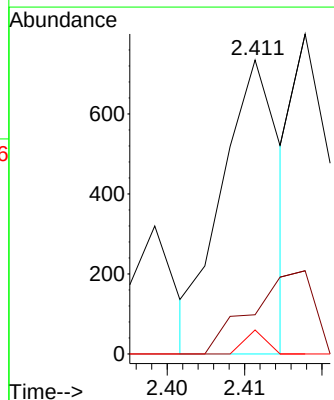
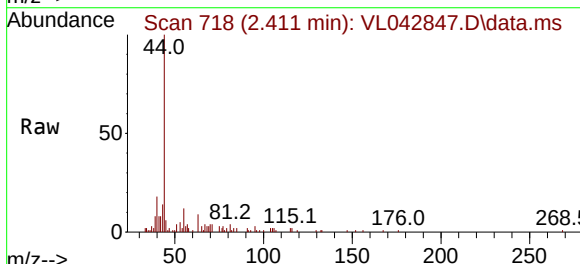
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

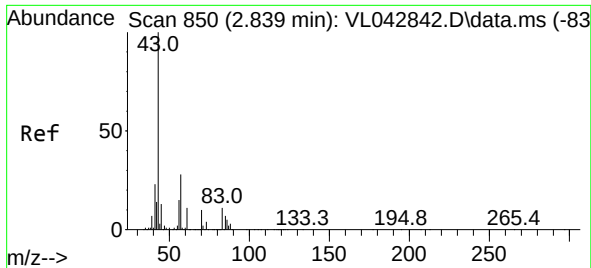
Tgt Ion: 43	Resp: 629
Ion Ratio	Lower Upper
43 100	
86 6.3	6.6 9.8#
42 0.0	7.0 10.6#
44 81.7	4.0 6.0#



#24
 1,1-Dichloroethane
 Concen: 0.027 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 63	Resp: 388
Ion Ratio	Lower Upper
63 100	
98 16.4	2.1 6.5#
100 10.0	1.7 5.1#

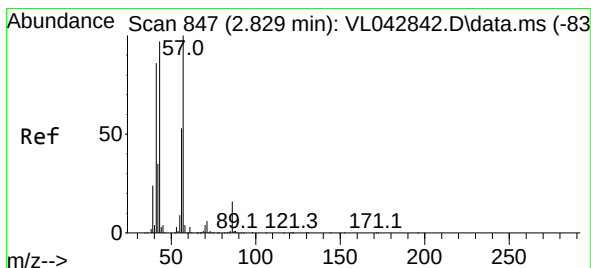
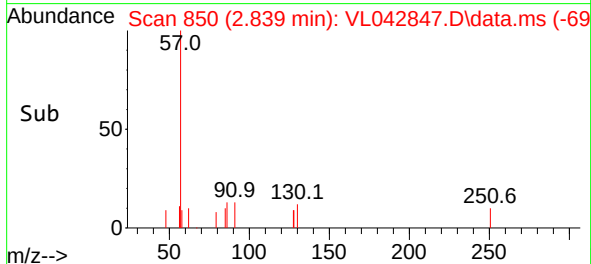
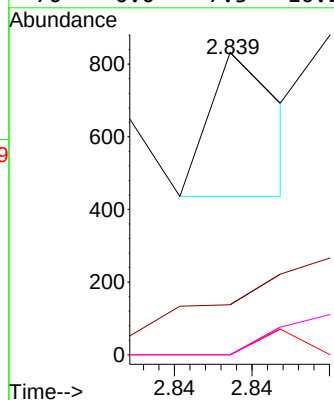
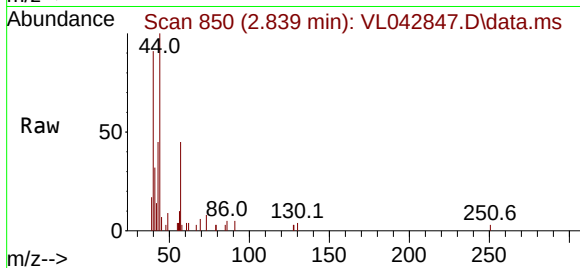




#25
Ethyl Acetate
Concen: 0.003 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

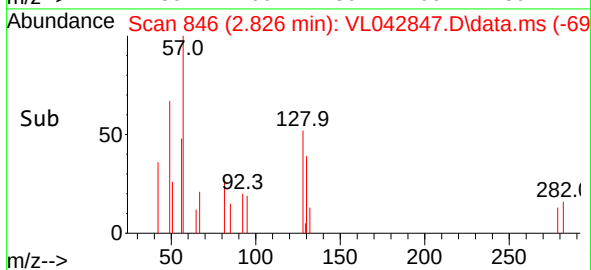
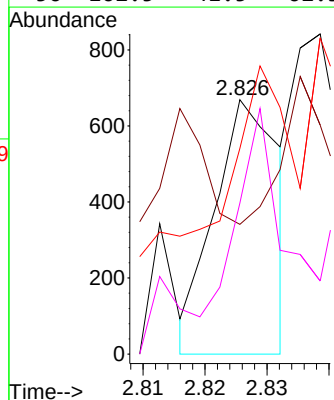
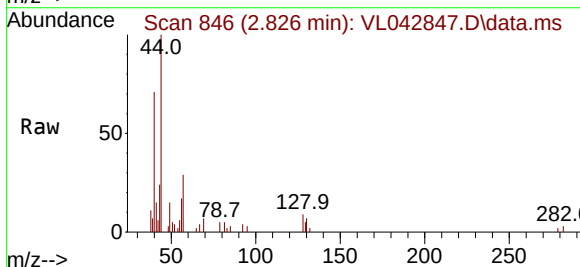
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

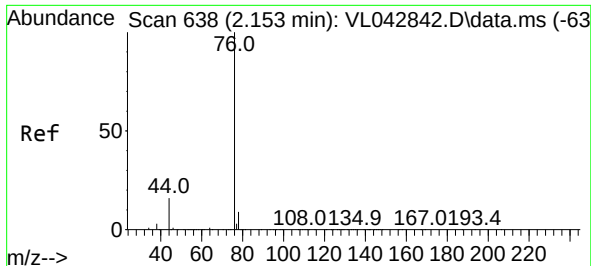
Tgt Ion:	43	Resp:	126
Ion	Ratio	Lower	Upper
43	100		
45	268.3	8.1	12.1#
61	0.0	7.4	11.2#
70	0.0	7.3	10.9#



#26
Hexane
Concen: 0.027 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:	57	Resp:	483
Ion	Ratio	Lower	Upper
57	100		
41	0.0	68.6	103.0#
43	0.0	168.5	252.7#
56	162.5	41.5	62.3#





#27

Carbon Disulfide

Concen: 0.029 ppbv

RT: 2.159 min Scan# 640

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

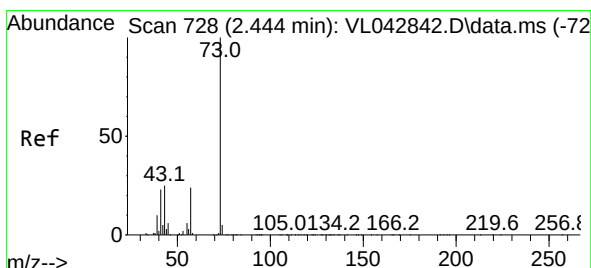
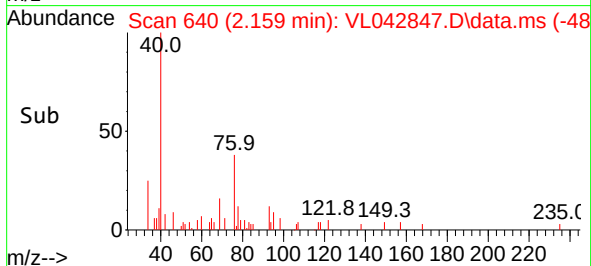
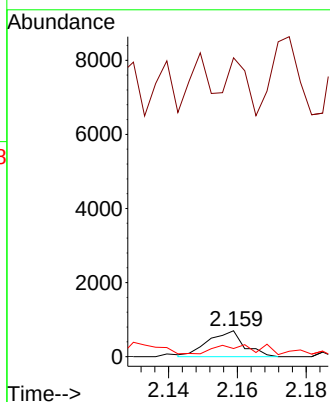
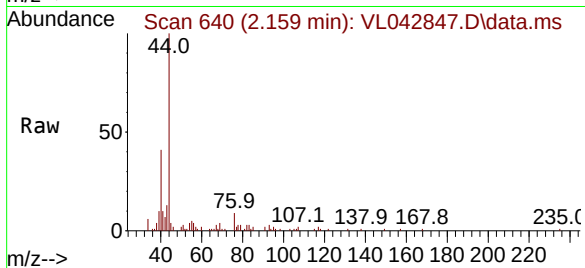
MSVOA_1

ClientSampleId :

VSTDIC0.03

Tgt Ion: 76 Resp: 509

Ion	Ratio	Lower	Upper
76	100		
44	2370.7	15.9	23.9#
78	81.3	9.5	14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.056 ppbv

RT: 2.450 min Scan# 730

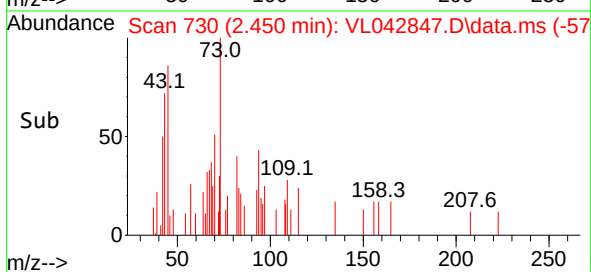
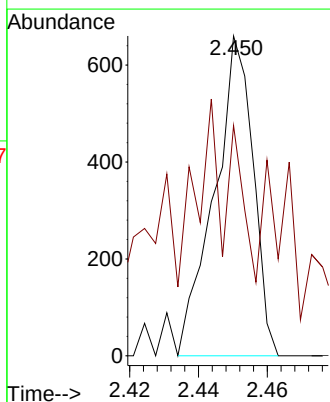
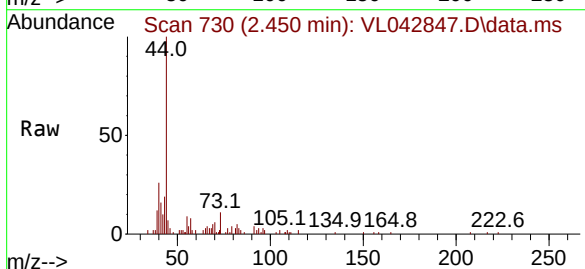
Delta R.T. 0.006 min

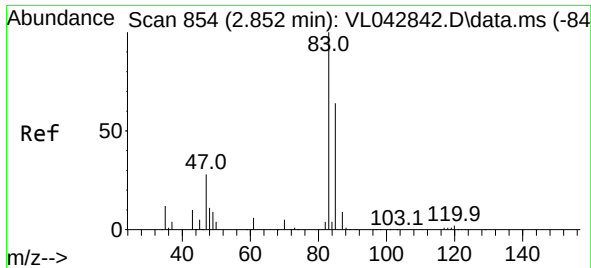
Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 73 Resp: 517

Ion	Ratio	Lower	Upper
73	100		
57	159.0	21.6	32.4#





#29

Chloroform

Concen: 0.035 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

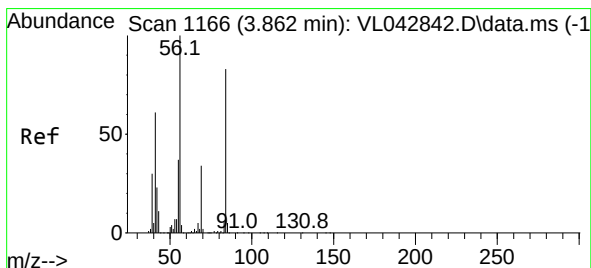
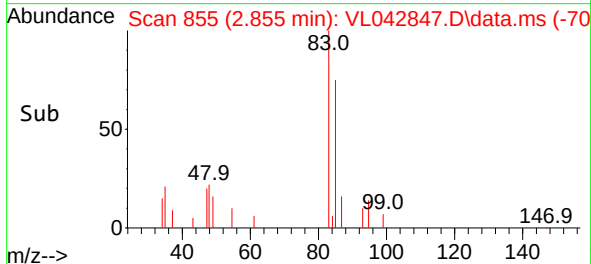
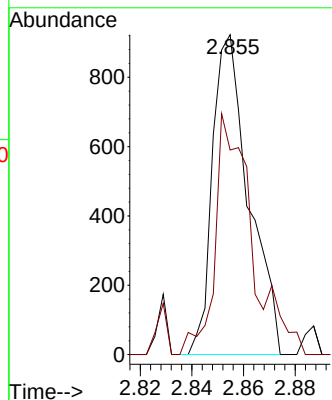
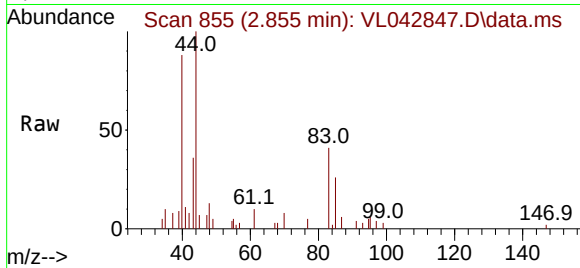
VSTDIC0.03

Tgt Ion: 83 Resp: 902

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7



#30

Cyclohexane

Concen: 0.022 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

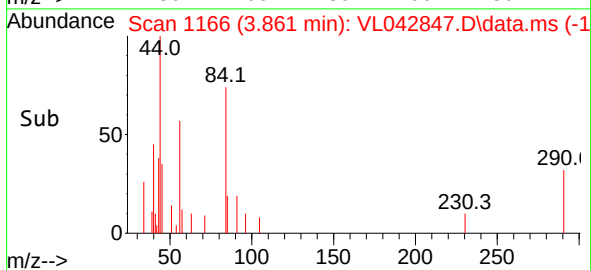
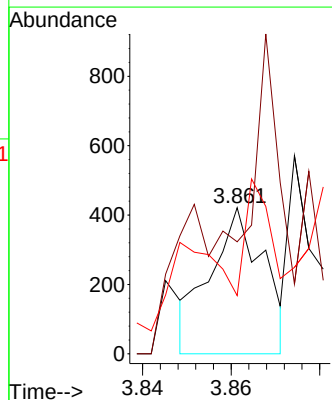
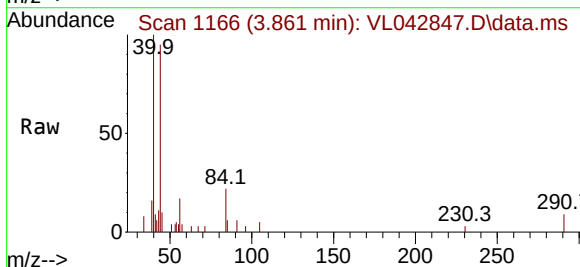
Tgt Ion: 84 Resp: 352

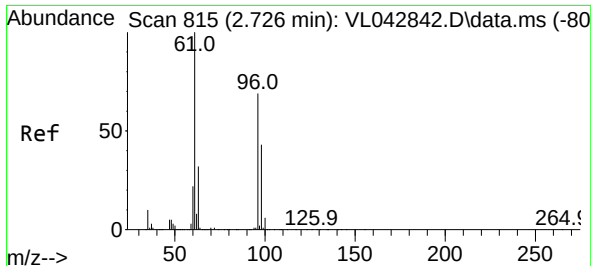
Ion Ratio Lower Upper

84 100

56 309.9 98.8 148.2#

41 239.8 61.3 91.9#

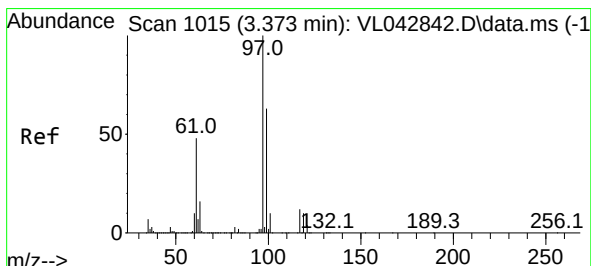
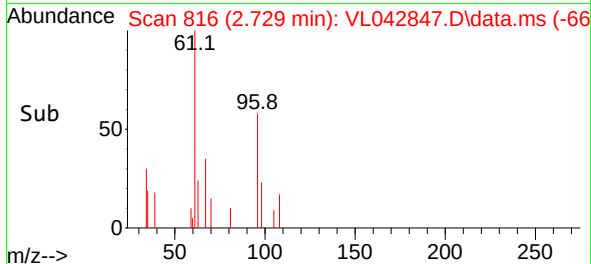
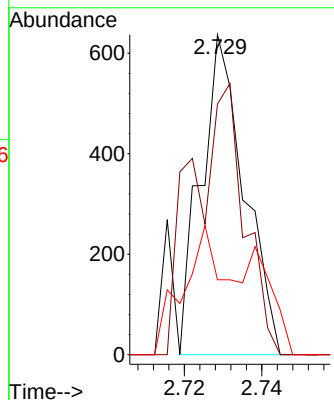
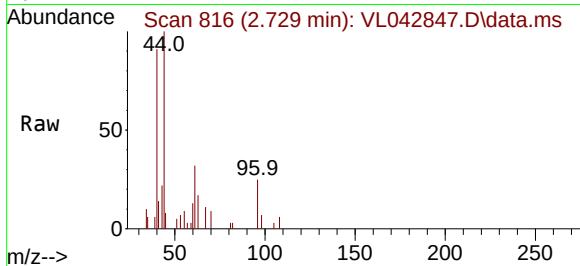




#31
 cis-1,2-Dichloroethene
 Concen: 0.027 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

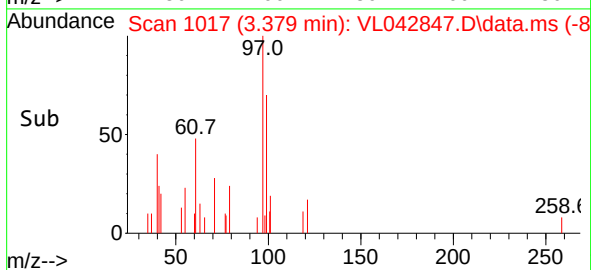
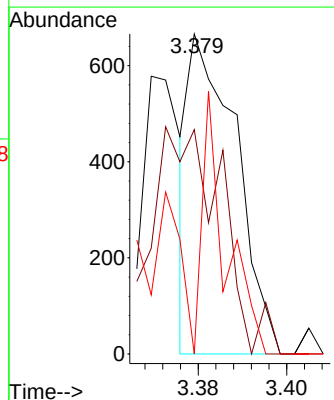
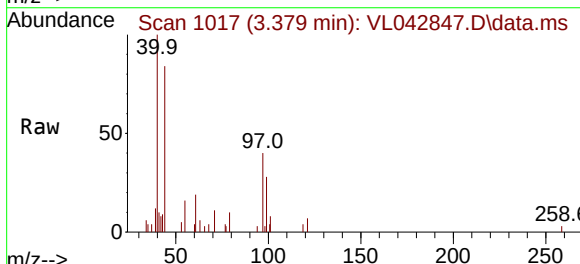
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

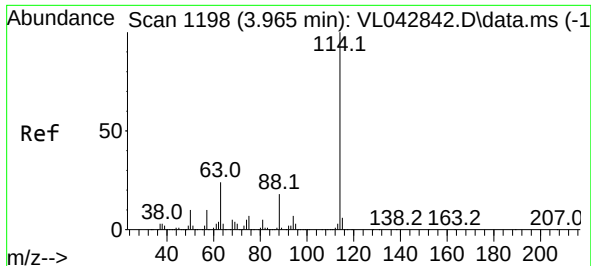
Tgt Ion:	61	Resp:	497
Ion	Ratio	Lower	Upper
61	100		
96	78.3	55.0	82.6
98	9.4	34.3	51.5



#32
 1,1,1-Trichloroethane
 Concen: 0.018 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion:	97	Resp:	493
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6
61	82.6	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

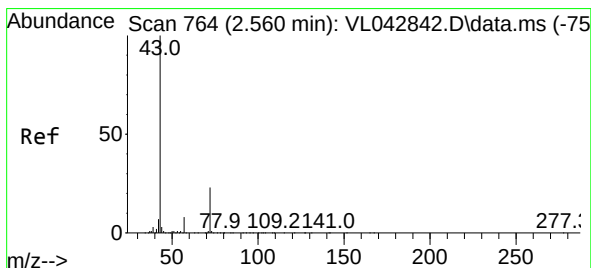
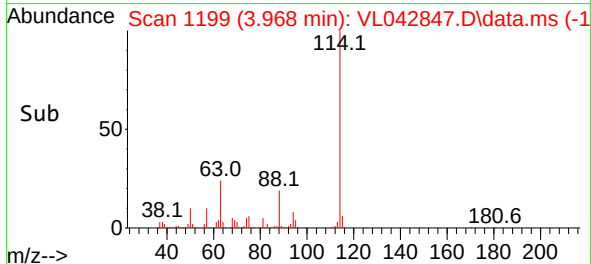
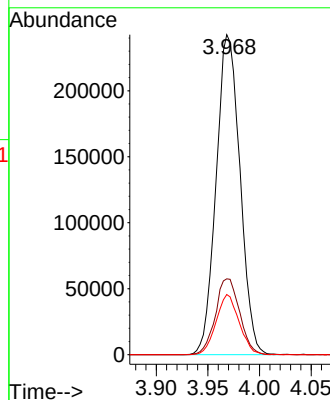
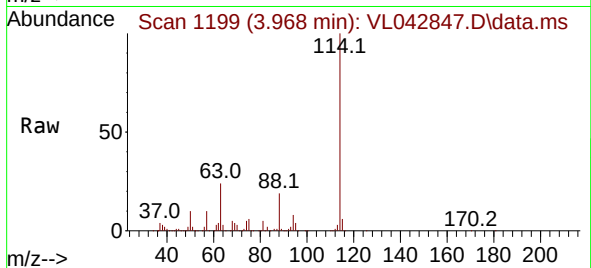
Tgt Ion:114 Resp: 390076

Ion Ratio Lower Upper

114 100

63 24.1 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.016 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042847.D

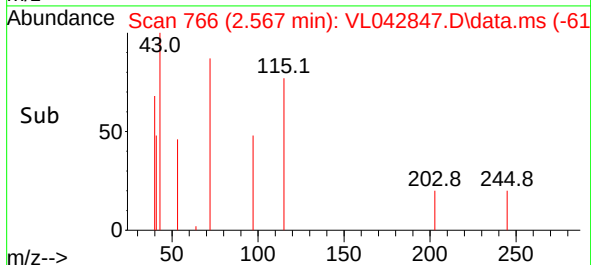
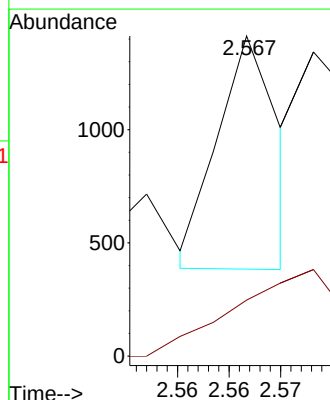
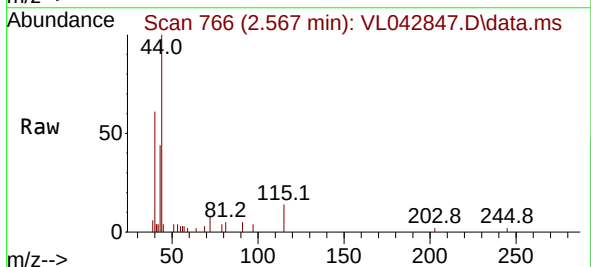
Acq: 13 Aug 2025 11:30

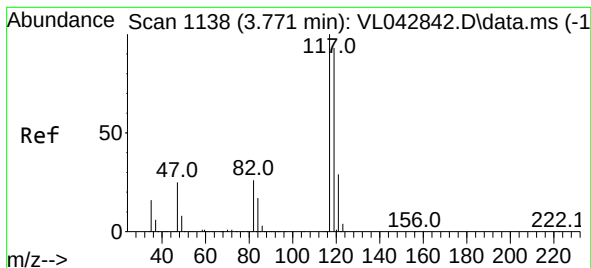
Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

43 100

72 0.0 18.6 28.0#





#35

Carbon Tetrachloride

Concen: 0.028 ppbv

RT: 3.774 min Scan# 1138

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

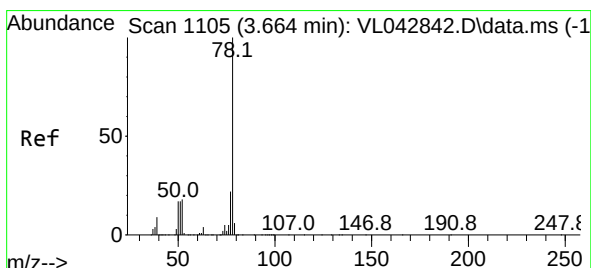
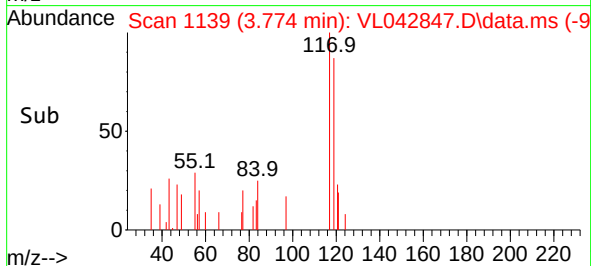
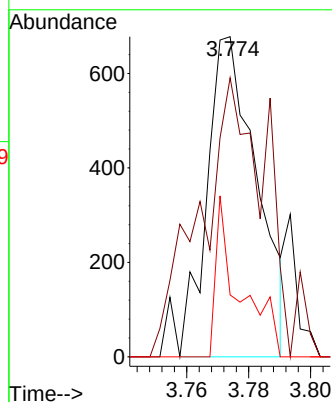
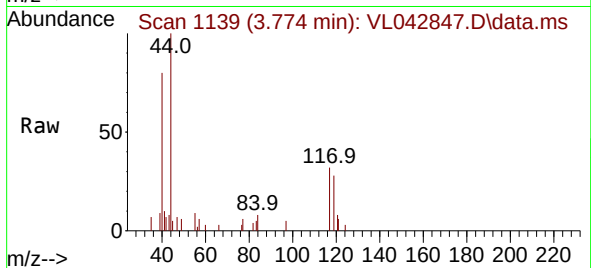
Tgt Ion:117 Resp: 756

Ion Ratio Lower Upper

117 100

119 59.0 74.7 112.1#

121 19.3 23.2 34.8#



#36

Benzene

Concen: 0.032 ppbv

RT: 3.670 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

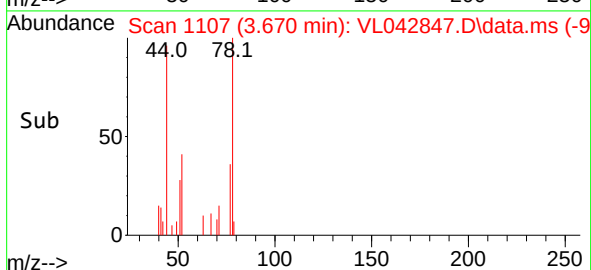
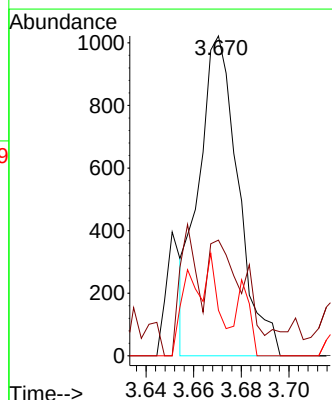
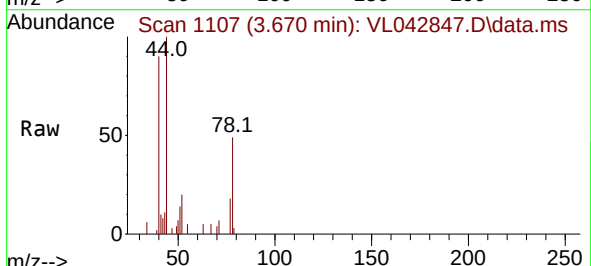
Tgt Ion: 78 Resp: 1185

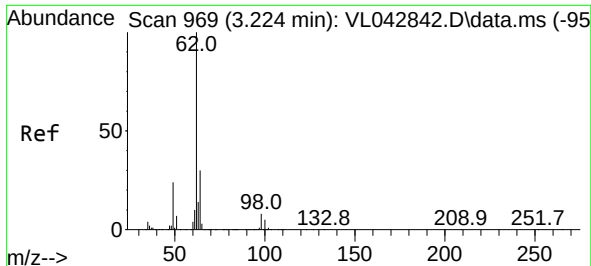
Ion Ratio Lower Upper

78 100

77 26.8 17.7 26.5#

50 13.4 13.9 20.9#

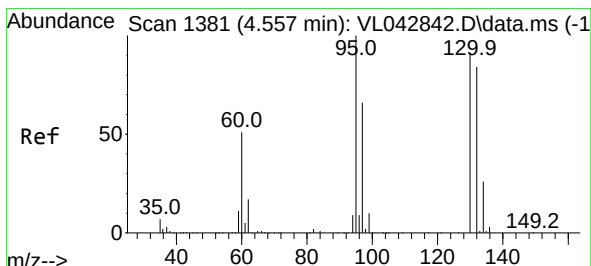
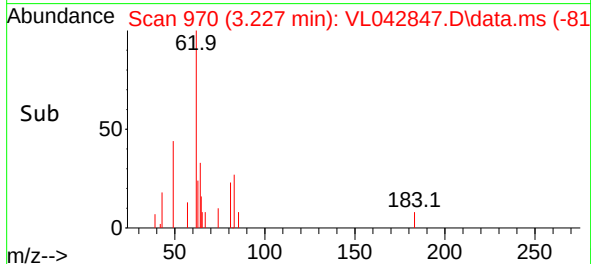
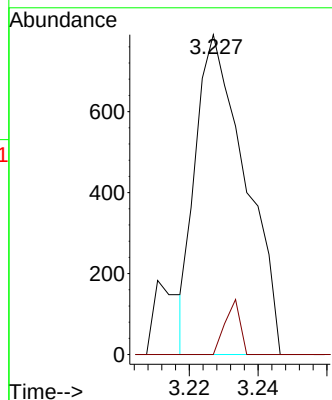
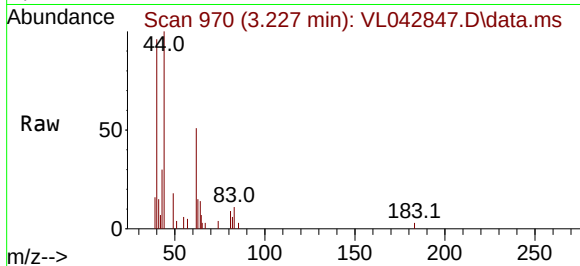




#37
1,2-Dichloroethane
Concen: 0.041 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

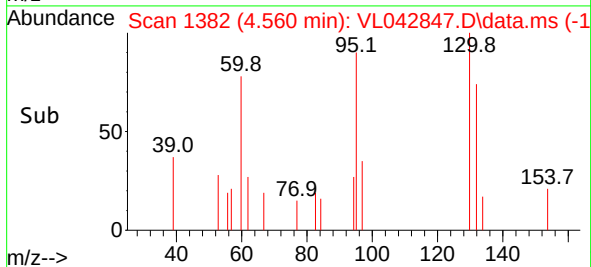
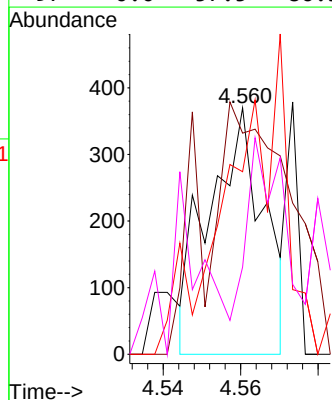
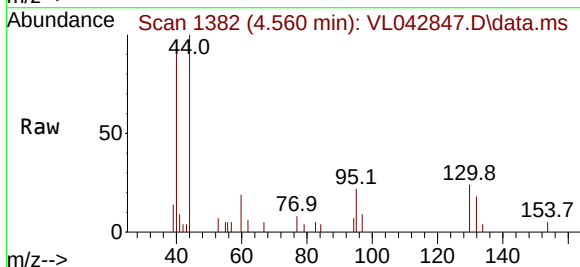
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

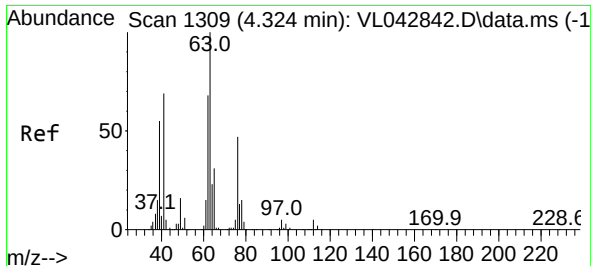
Tgt Ion: 62 Resp: 792
Ion Ratio Lower Upper
62 100
98 5.2 5.9 8.9#



#38
Trichloroethene
Concen: 0.021 ppbv
RT: 4.560 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:130 Resp: 363
Ion Ratio Lower Upper
130 100
95 77.9 87.6 131.4#
132 35.9 73.8 110.8#
97 0.0 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 6.881 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.356 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

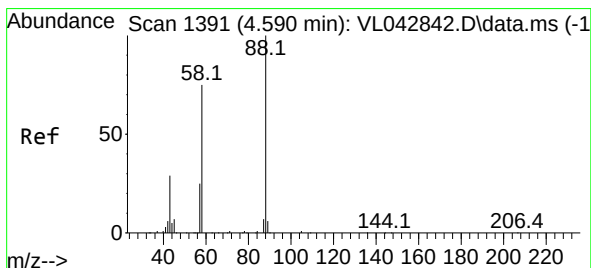
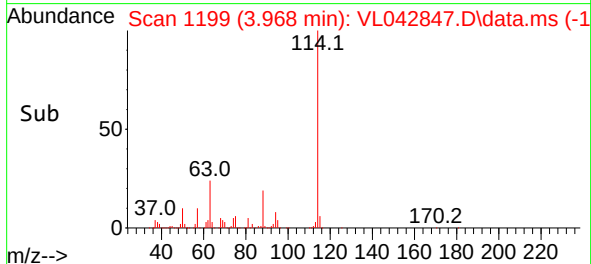
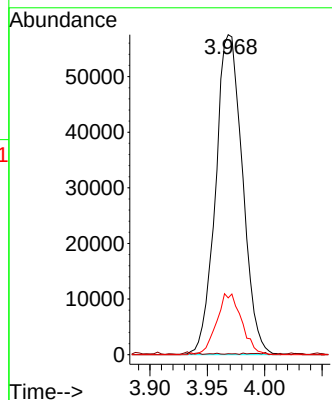
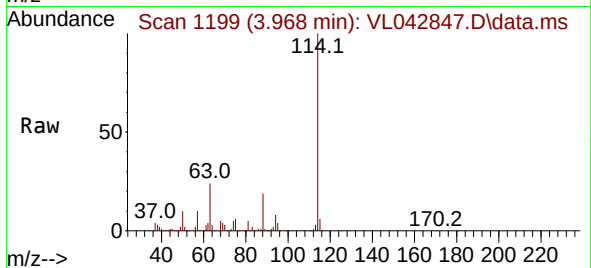
Tgt Ion: 63 Resp: 93873

Ion Ratio Lower Upper

63 100

41 0.2 55.0 82.4#

62 17.7 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.016 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. 0.052 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 88 Resp: 105

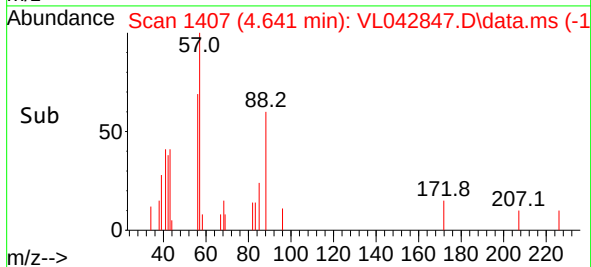
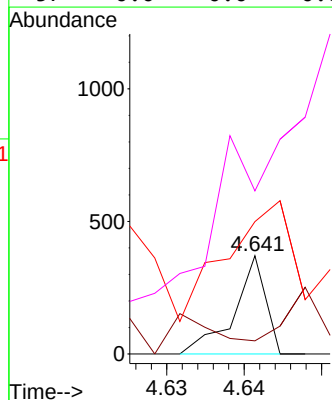
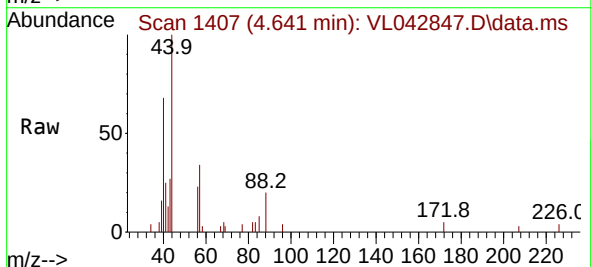
Ion Ratio Lower Upper

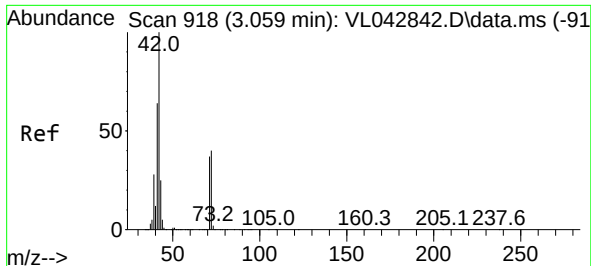
88 100

58 239.0 53.8 80.6#

43 781.0 22.8 34.2#

57 0.0 0.0 0.0

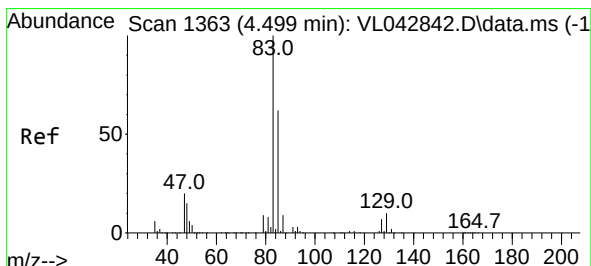
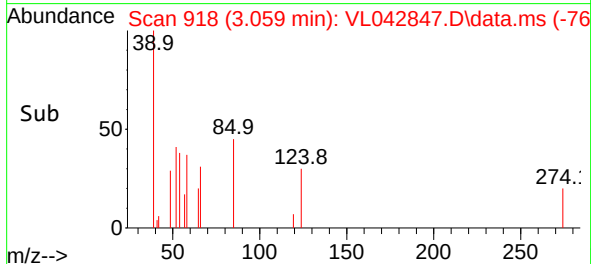
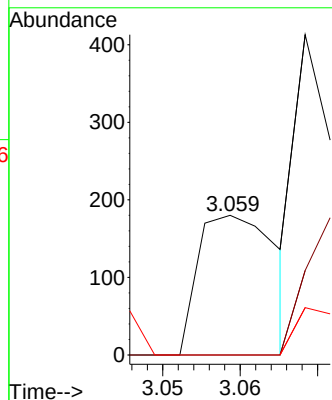
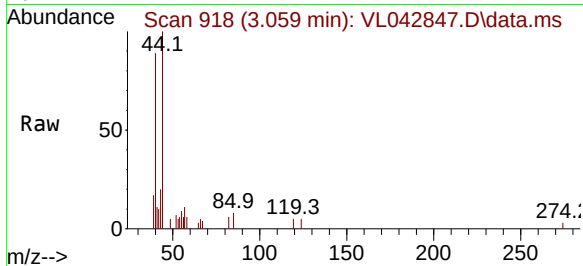




#41
Tetrahydrofuran
Concen: 0.009 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

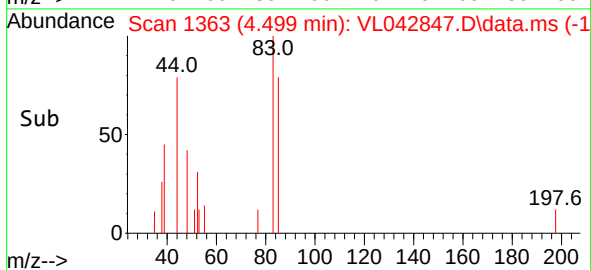
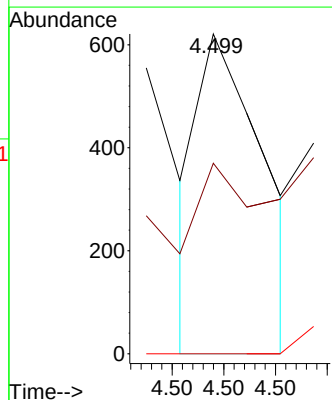
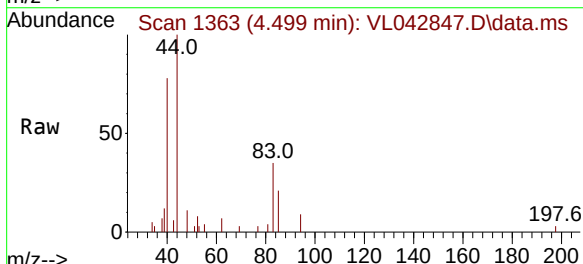
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

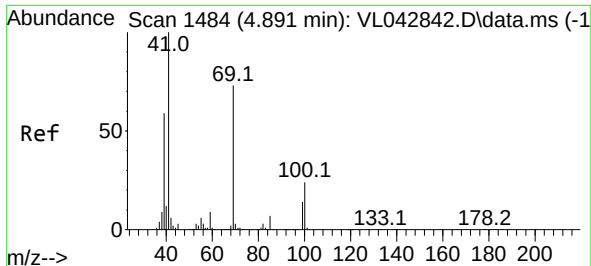
Tgt Ion: 42	Resp: 127
Ion Ratio	Lower Upper
42 100	
72 0.0	32.6 48.8#
71 0.0	30.0 45.0#



#42
Bromodichloromethane
Concen: 0.009 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 83	Resp:	271	
Ion	Ratio	Lower	Upper
83	100		
85	56.1	49.8	74.8
127	0.0	5.8	8.6#

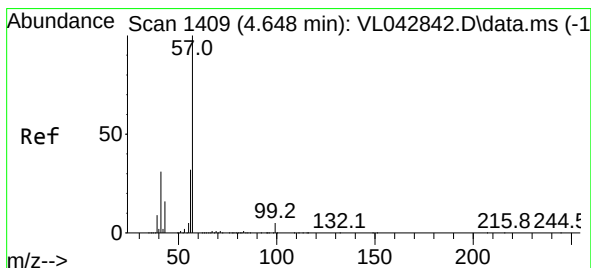
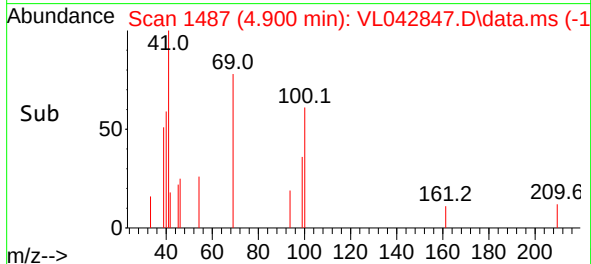
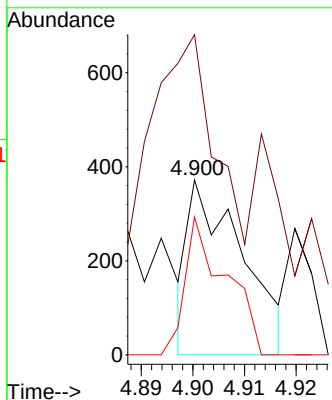
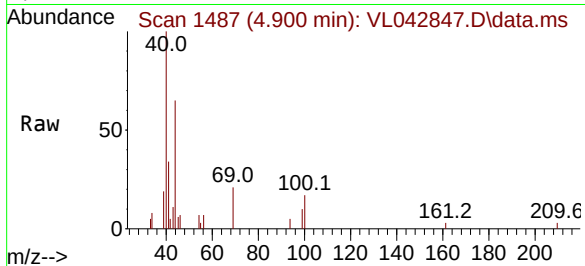




#43
Methyl Methacrylate
Concen: 0.018 ppbv
RT: 4.900 min Scan# 1410
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

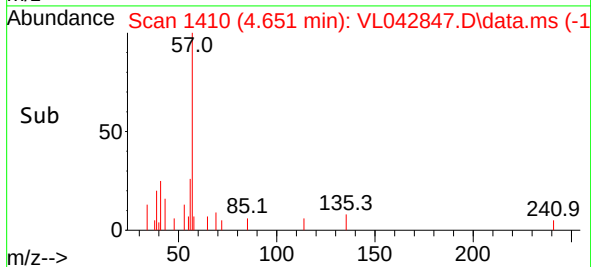
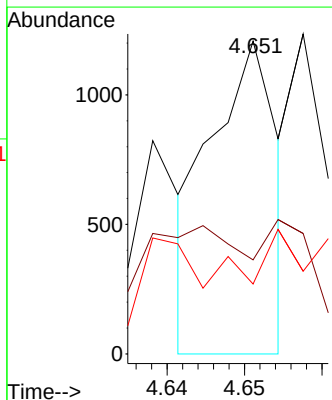
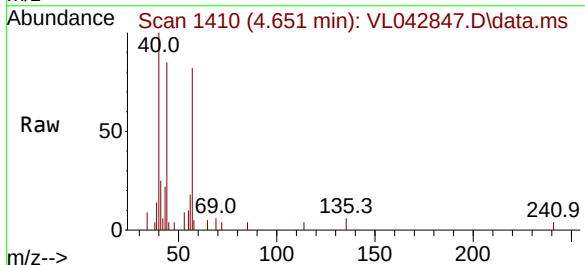
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

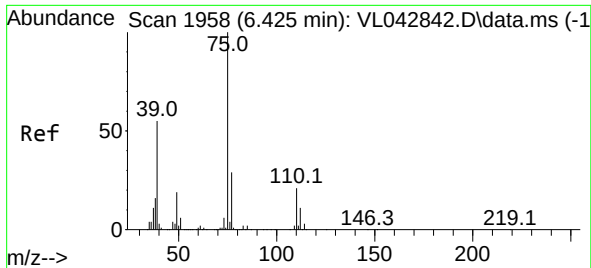
Tgt Ion: 69 Resp: 270
Ion Ratio Lower Upper
69 100
41 466.3 114.6 172.0#
100 59.6 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 0.012 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 57 Resp: 726
Ion Ratio Lower Upper
57 100
41 0.0 24.8 37.2#
56 0.0 25.5 38.3#

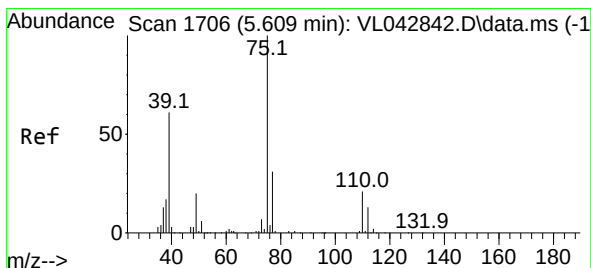
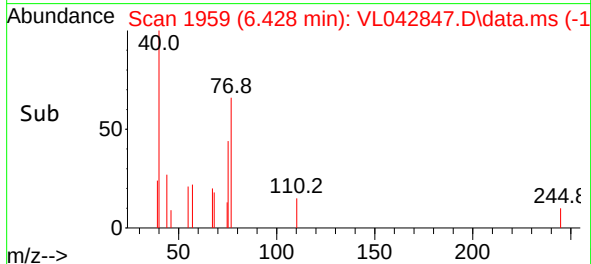
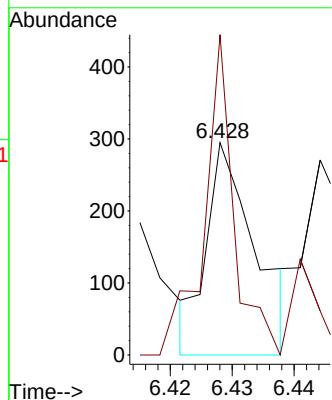
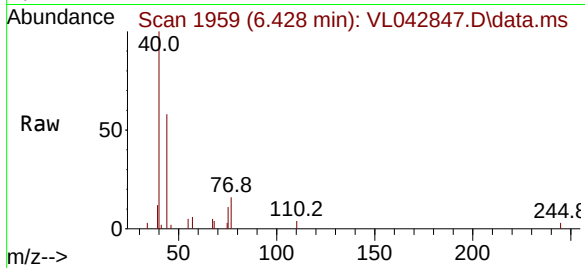




#45
 t-1,3-Dichloropropene
 Concen: 0.009 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

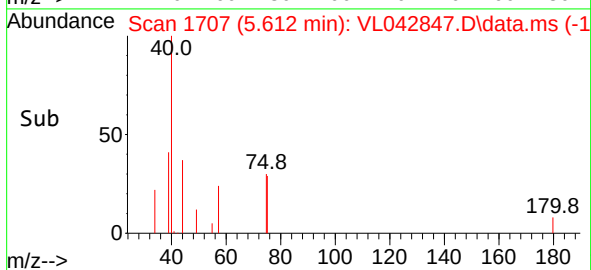
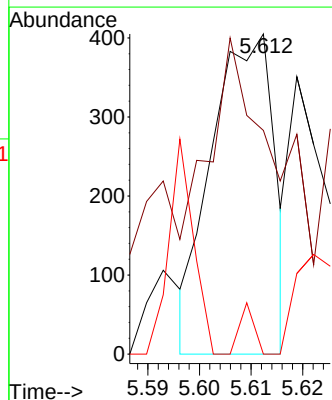
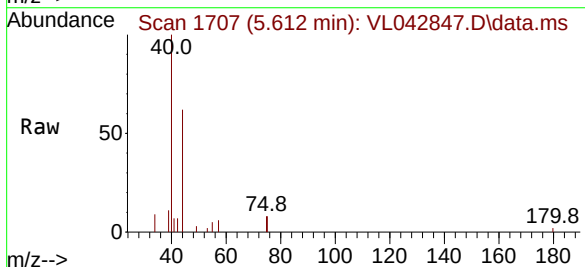
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

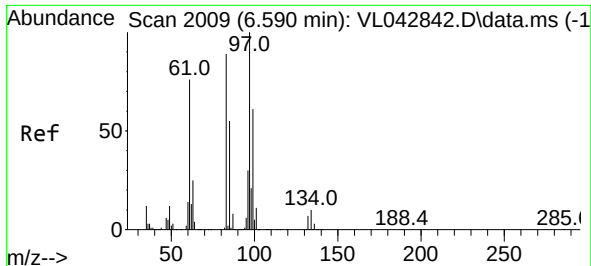
Tgt Ion: 75 Resp: 162
 Ion Ratio Lower Upper
 75 100
 77 150.8 23.8 35.6#



#46
 cis-1,3-Dichloropropene
 Concen: 0.016 ppbv
 RT: 5.612 min Scan# 1707
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 75 Resp: 343
 Ion Ratio Lower Upper
 75 100
 39 42.7 48.9 73.3#
 77 0.0 24.9 37.3#





#47

1,1,2-Trichloroethane

Concen: 0.002 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

Tgt Ion: 97 Resp: 30

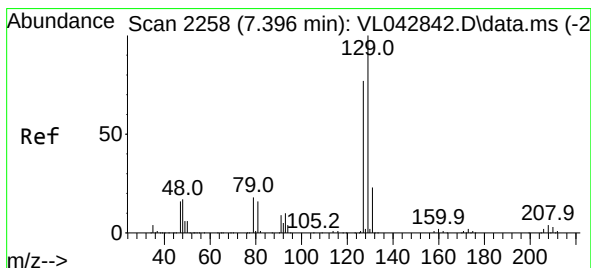
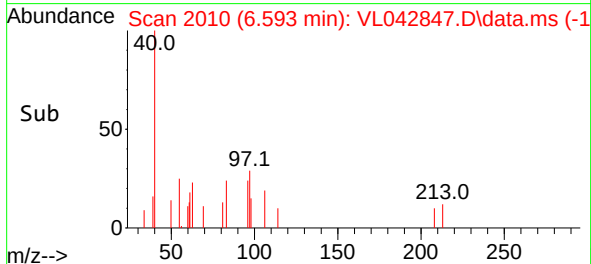
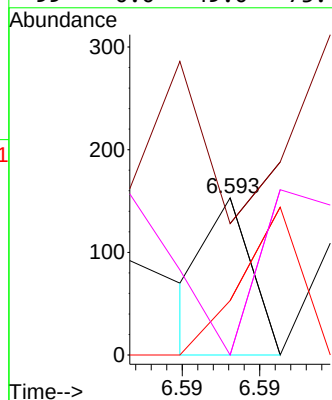
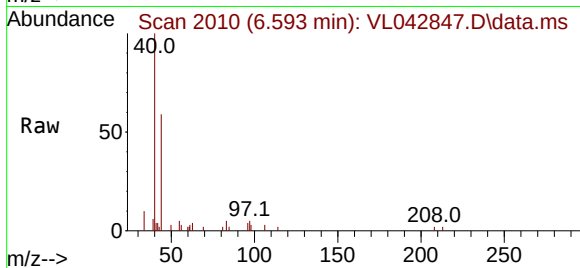
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 34.6 43.6 65.4#

99 0.0 49.0 73.4#



#48

Dibromochloromethane

Concen: 0.025 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042847.D

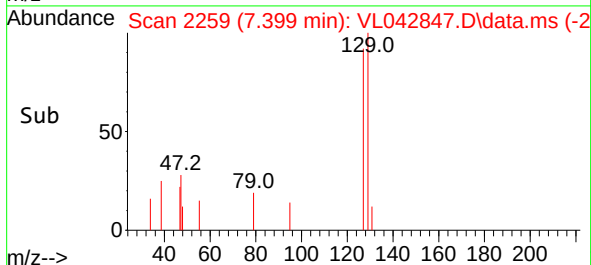
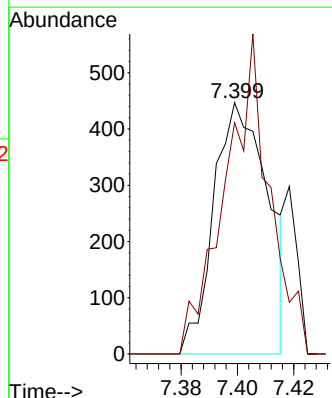
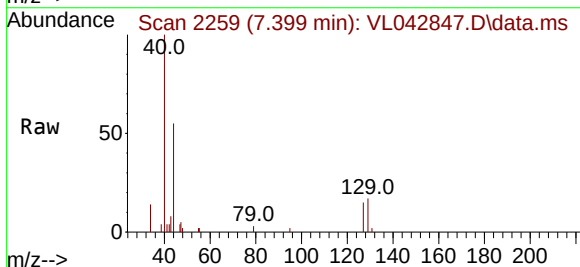
Acq: 13 Aug 2025 11:30

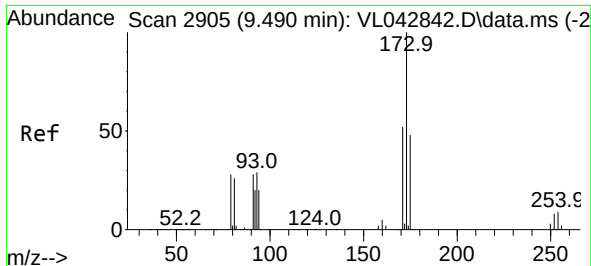
Tgt Ion: 129 Resp: 593

Ion Ratio Lower Upper

129 100

127 104.0 39.4 118.2

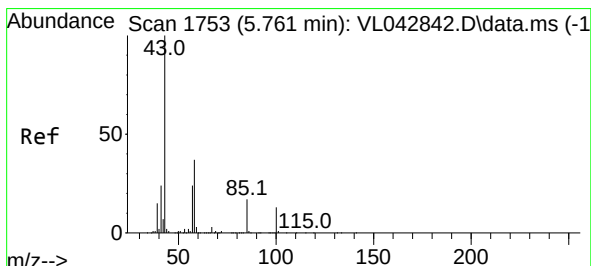
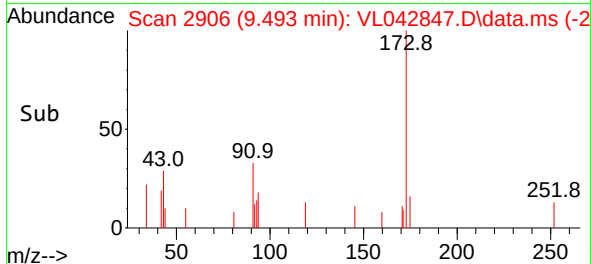
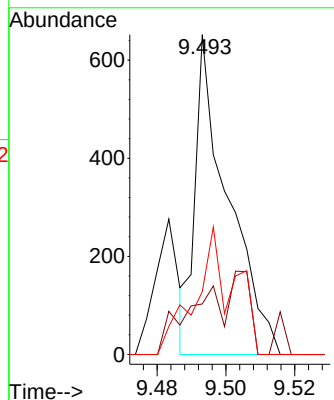
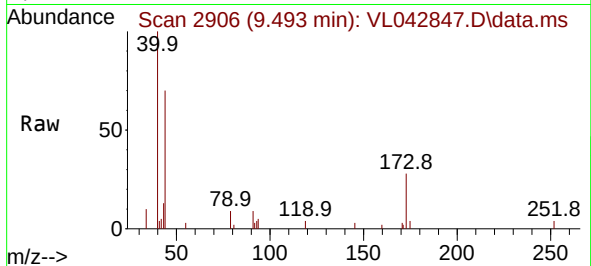




#49
Bromoform
Concen: 0.022 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

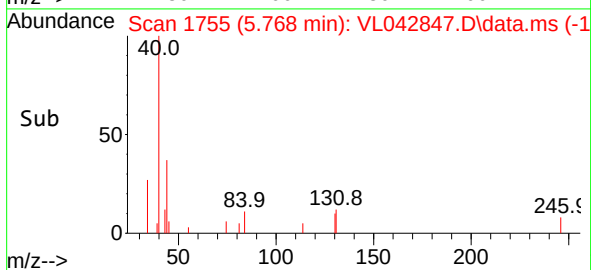
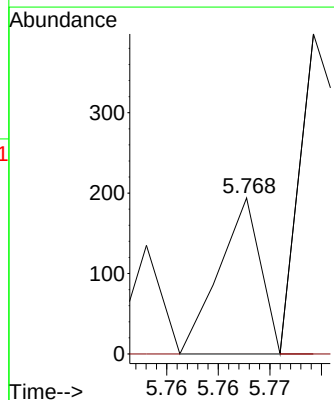
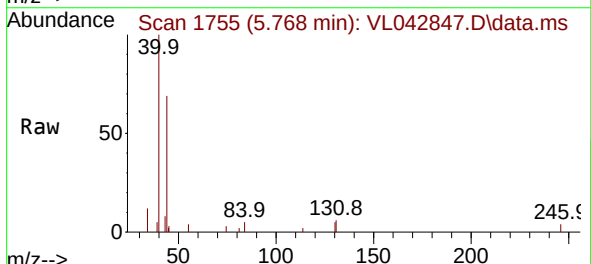
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

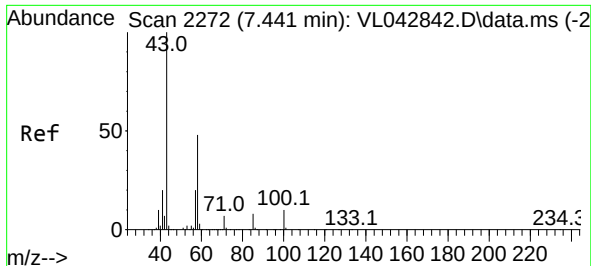
Tgt Ion:173 Resp: 431
Ion Ratio Lower Upper
173 100
175 43.9 39.2 58.8
171 46.9 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 0.002 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#

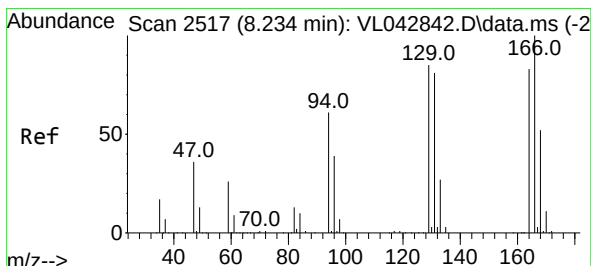
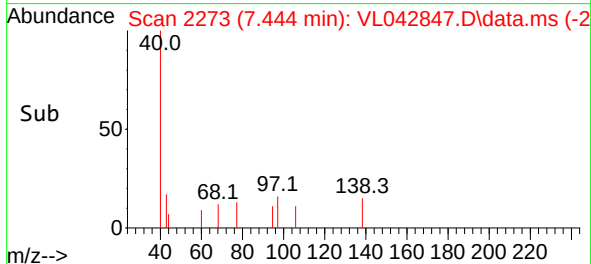
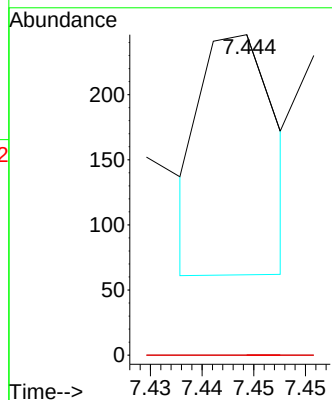
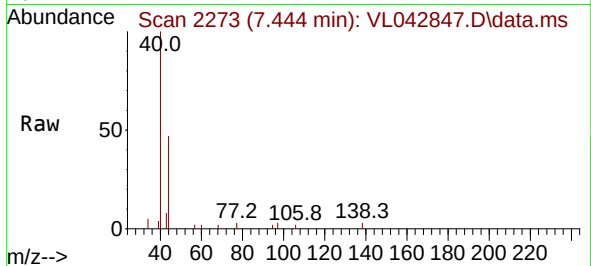




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.444 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

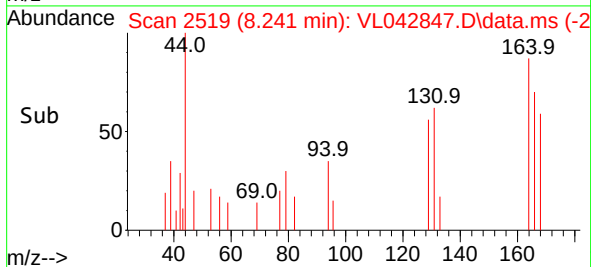
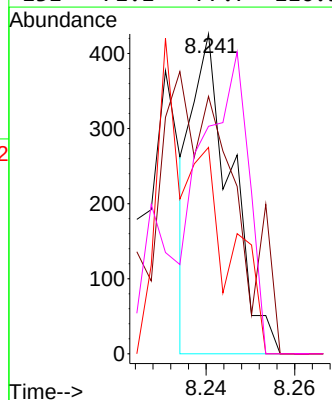
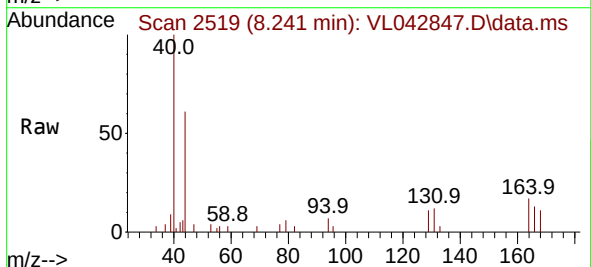
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

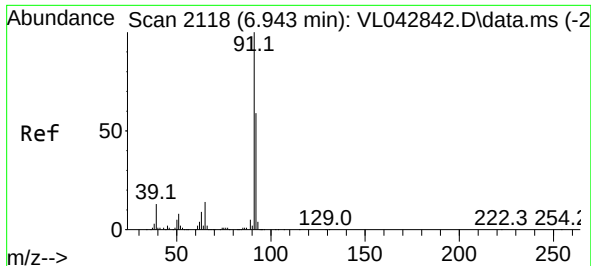
Tgt Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.019 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 164 Resp: 262
Ion Ratio Lower Upper
164 100
166 80.5 96.5 144.7#
129 64.6 81.8 122.6#
131 71.1 77.7 116.5#

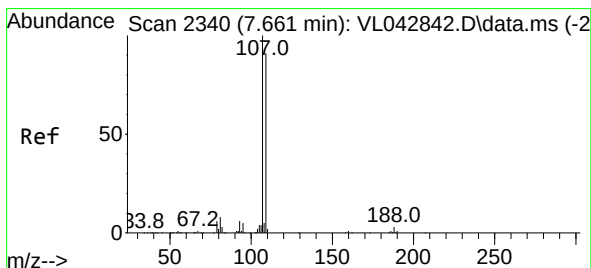
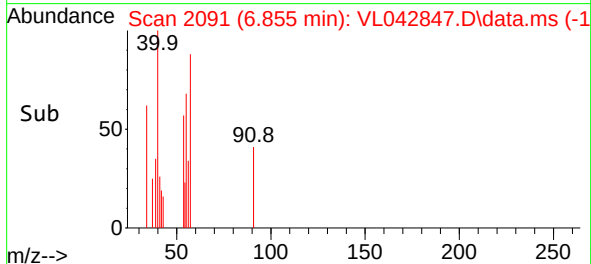
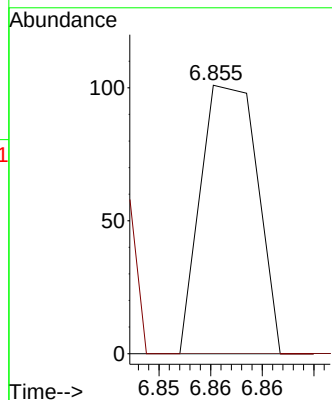
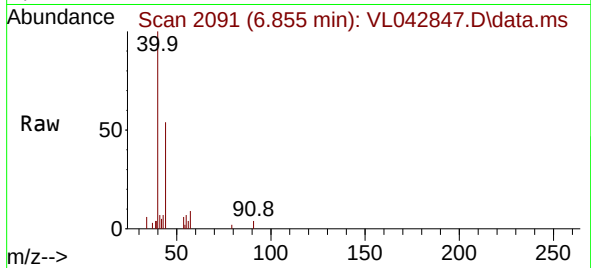




#53
Toluene
Concen: 0.001 ppbv
RT: 6.855 min Scan# 2091
Delta R.T. -0.088 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

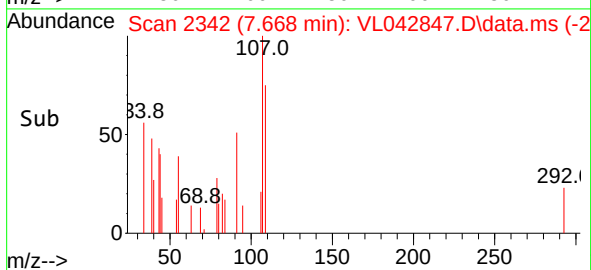
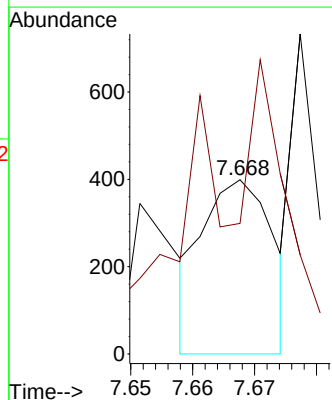
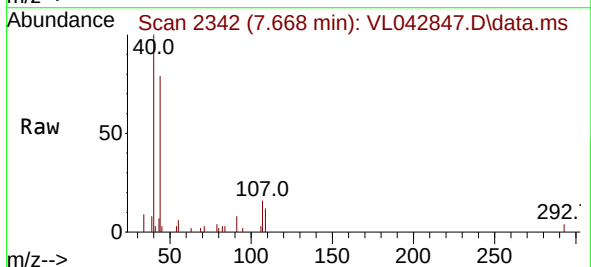
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

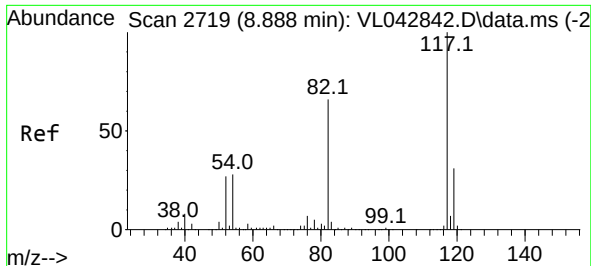
Tgt Ion: 91 Resp: 39
Ion Ratio Lower Upper
91 100
92 59.0 47.8 71.6



#54
1,2-Dibromoethane
Concen: 0.015 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 107 Resp: 313
Ion Ratio Lower Upper
107 100
109 48.9 72.5 108.7#

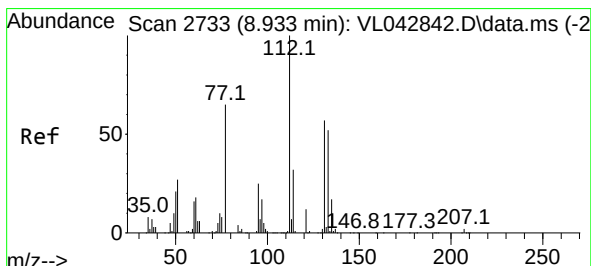
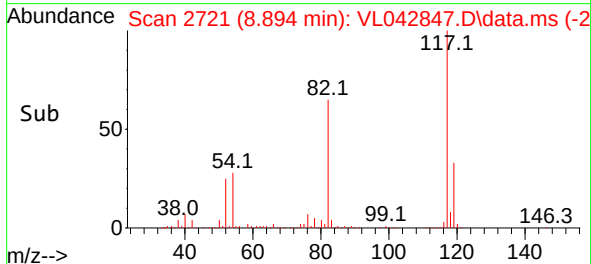
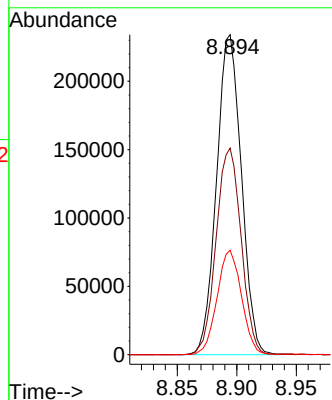
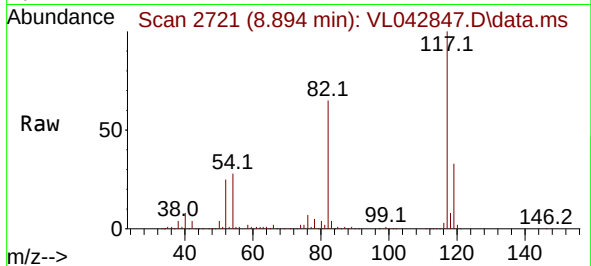




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

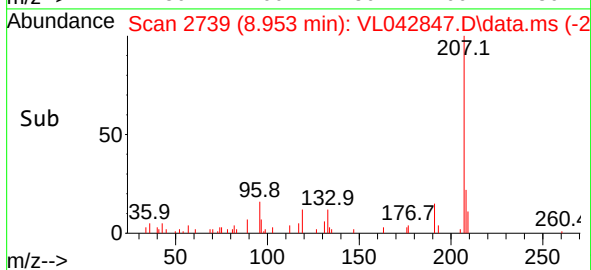
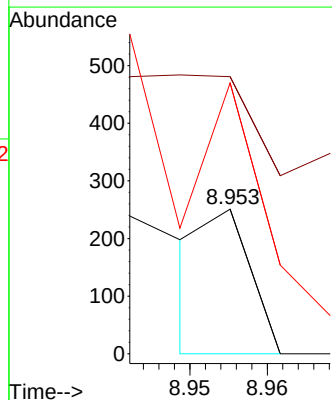
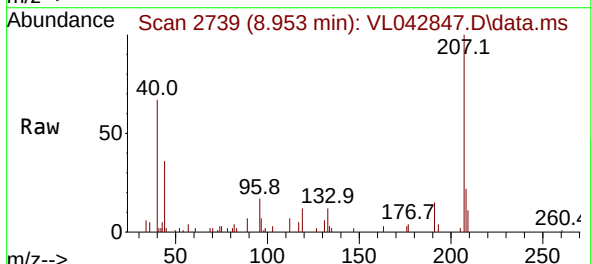
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

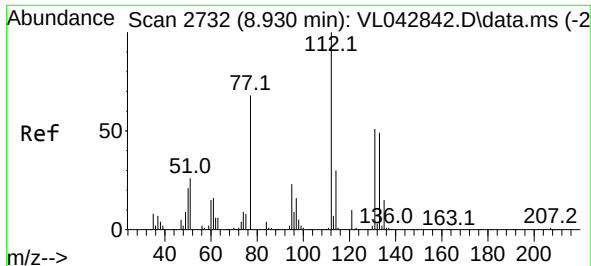
Tgt Ion:117 Resp: 339700
Ion Ratio Lower Upper
117 100
82 65.1 54.6 81.8
119 32.2 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.003 ppbv
RT: 8.953 min Scan# 2739
Delta R.T. 0.019 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:131 Resp: 49
Ion Ratio Lower Upper
131 100
133 0.0 77.4 116.0#
119 0.0 51.2 76.8#

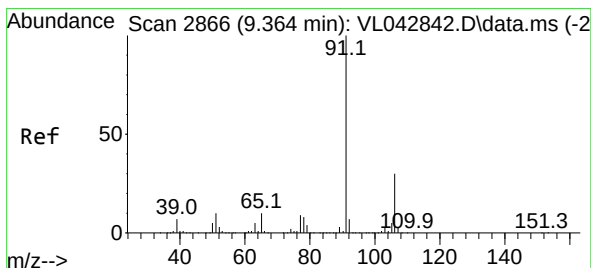
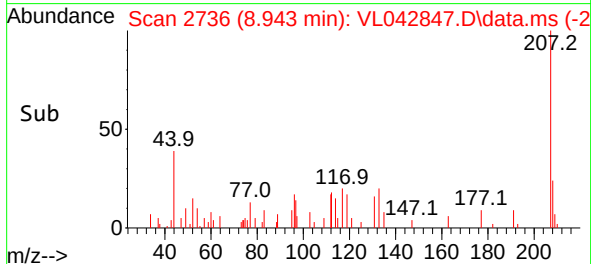
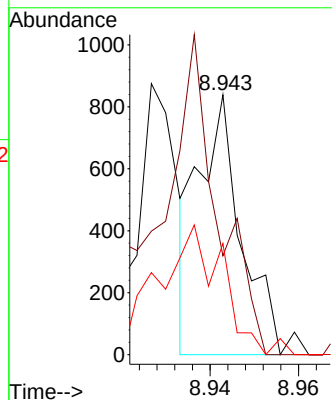
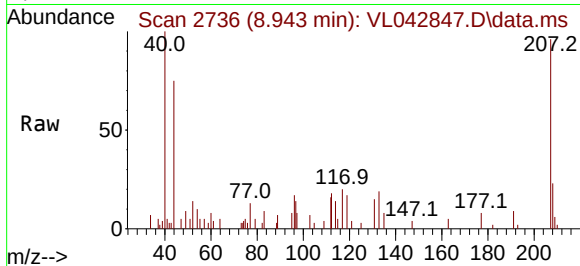




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.943 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

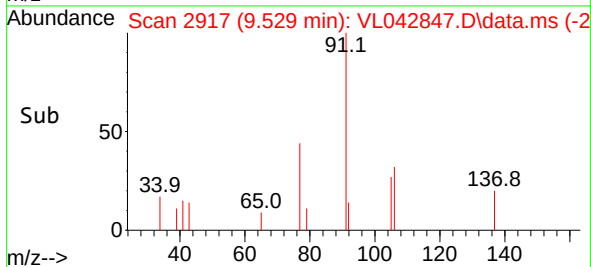
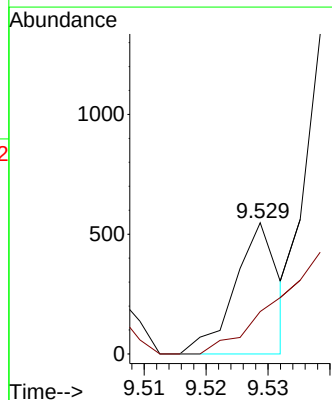
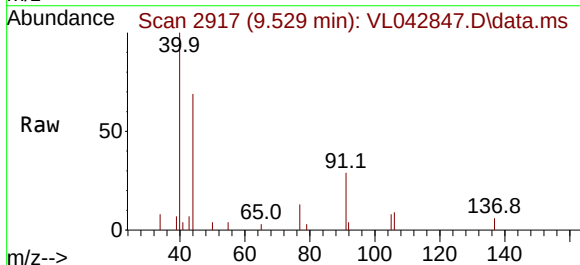
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

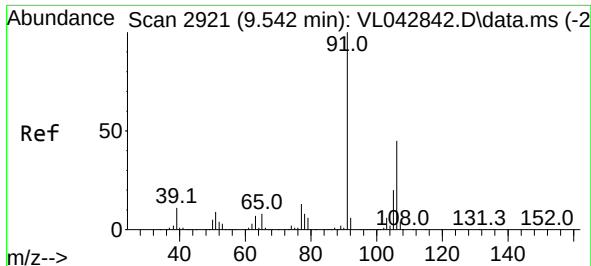
Tgt Ion	Ratio	Lower	Upper
112	100		
77	38.0	55.5	83.3#
114	36.6	27.2	33.2#



#58
Ethyl Benzene
Concen: 0.004 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. 0.165 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.3	23.9	35.9





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.000 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

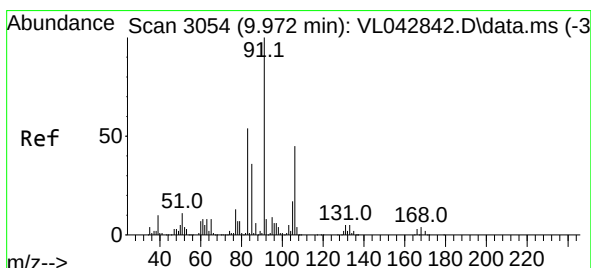
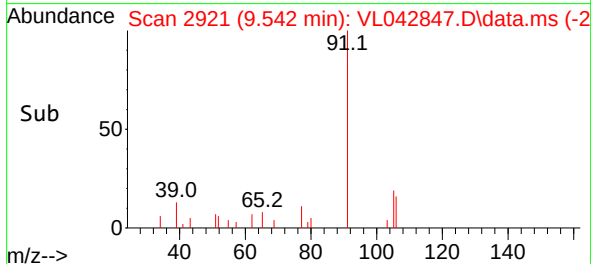
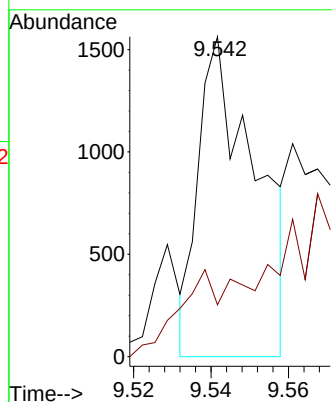
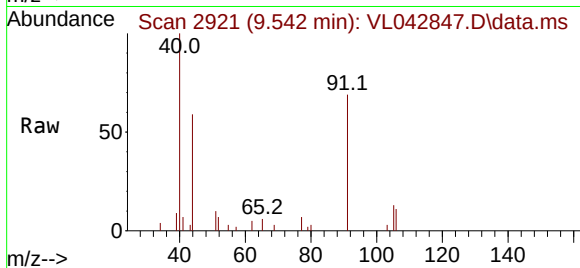
VSTDIC0.03

Tgt Ion: 91 Resp: 1589

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.036 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.003 min

Lab File: VL042847.D

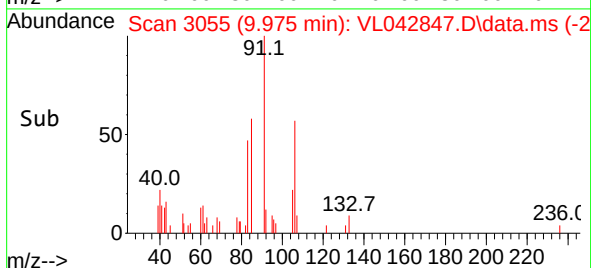
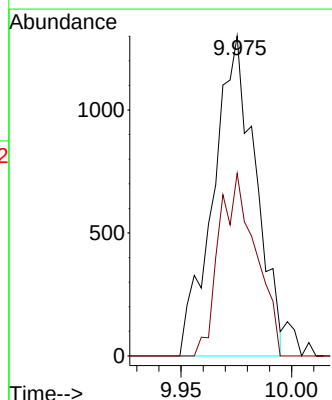
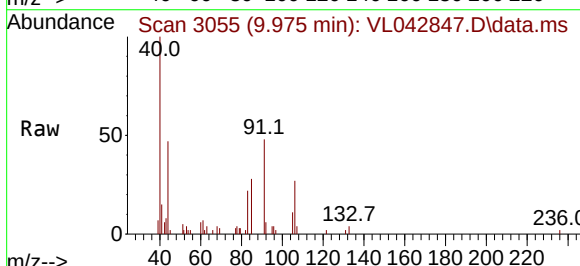
Acq: 13 Aug 2025 11:30

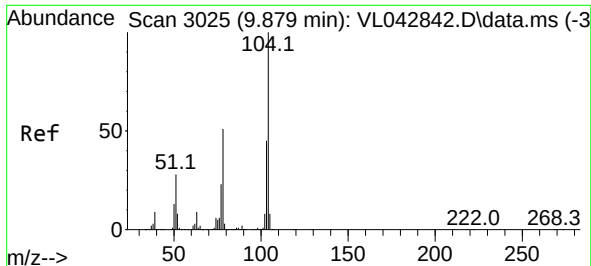
Tgt Ion: 91 Resp: 1722

Ion Ratio Lower Upper

91 100

106 49.8 21.8 65.4

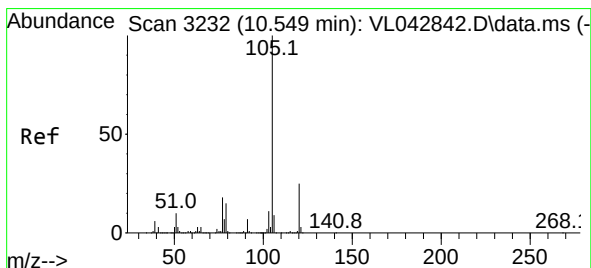
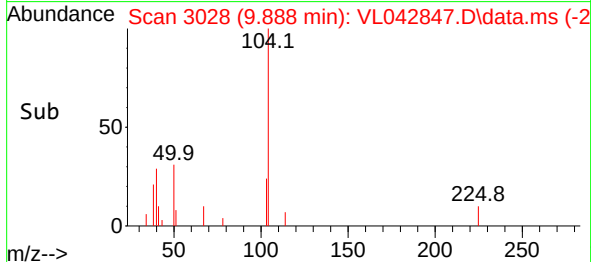
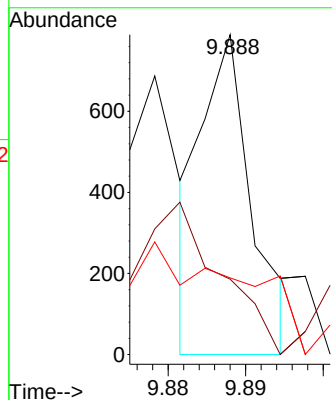
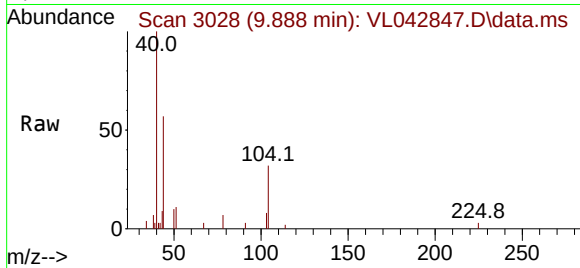




#61
Styrene
Concen: 0.016 ppbv
RT: 9.888 min Scan# 3025
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

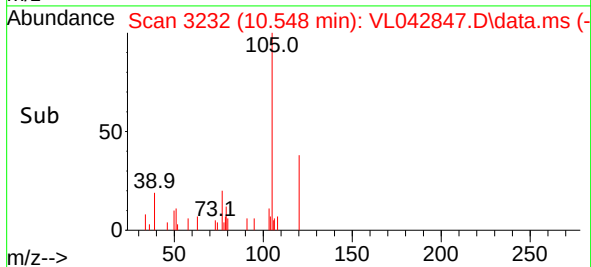
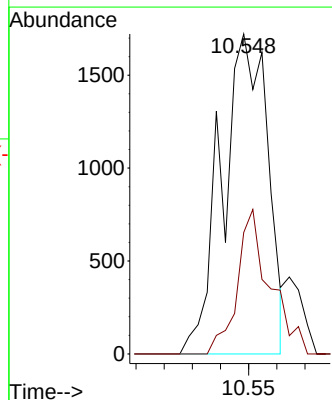
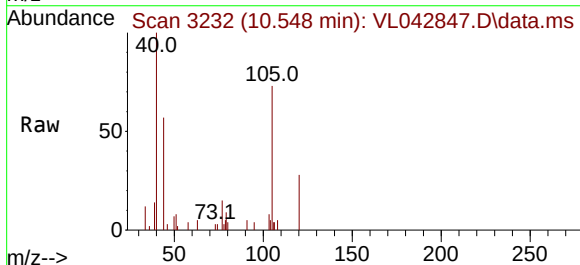
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

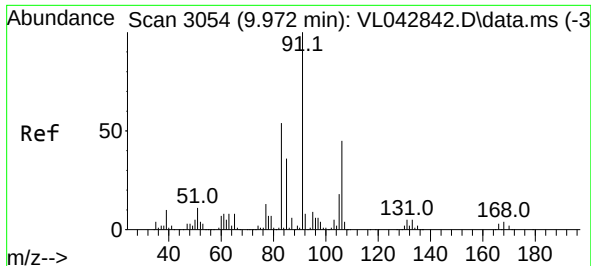
Tgt Ion:104 Resp: 354
Ion Ratio Lower Upper
104 100
78 0.0 40.6 61.0#
103 0.0 37.7 56.5#



#62
Isopropylbenzene
Concen: 0.028 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:105 Resp: 1945
Ion Ratio Lower Upper
105 100
120 32.1 20.6 30.8#

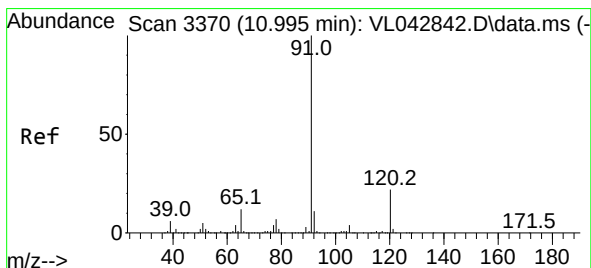
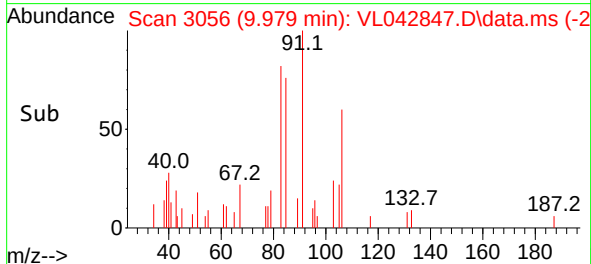
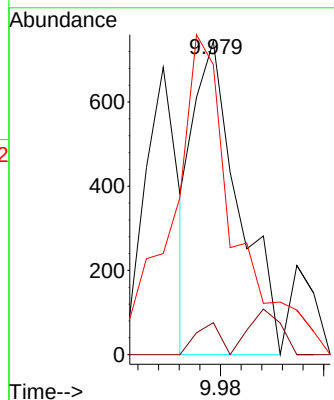
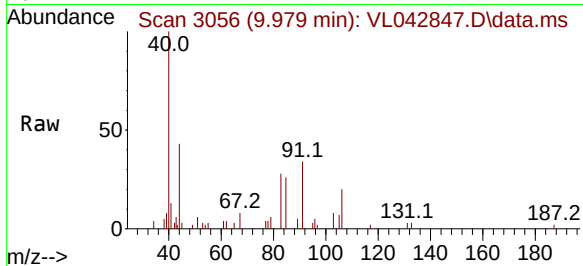




#63
1,1,2,2-Tetrachloroethane
Concen: 0.017 ppbv
RT: 9.979 min Scan# 3054
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

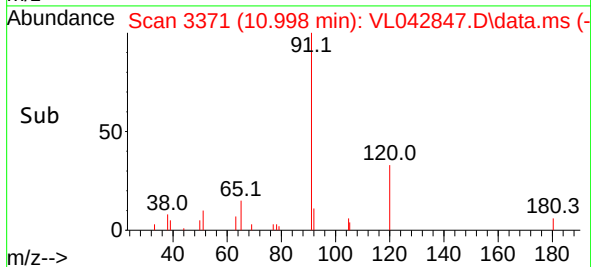
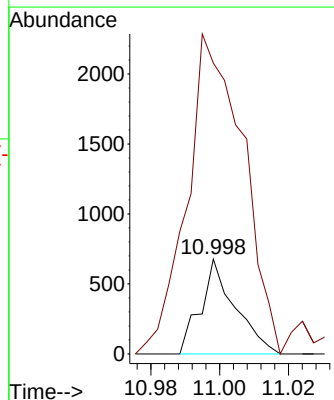
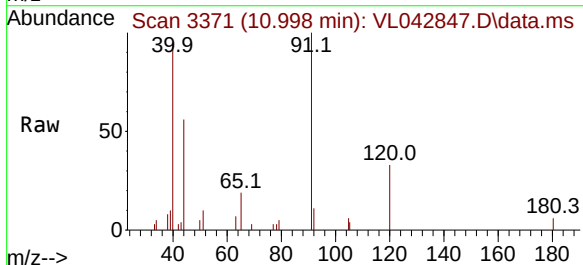
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

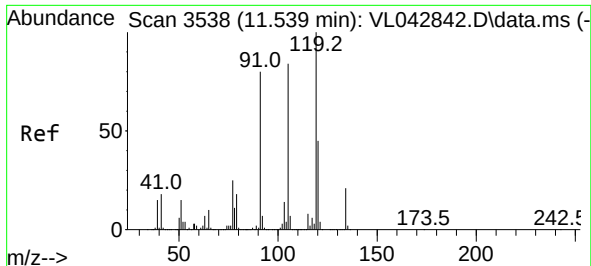
Tgt Ion: 83 Resp: 451
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 154.3 32.3 96.8#



#64
n-propylbenzene
Concen: 0.027 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 120 Resp: 470
Ion Ratio Lower Upper
120 100
91 567.7 375.8 563.6#

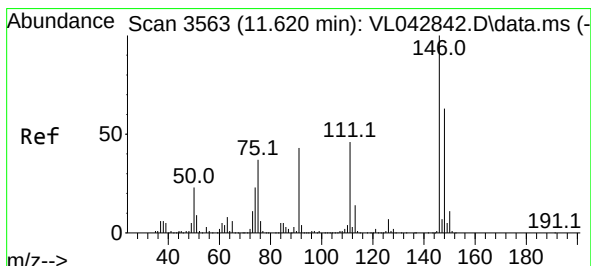
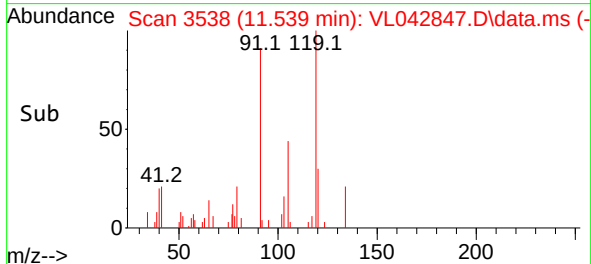
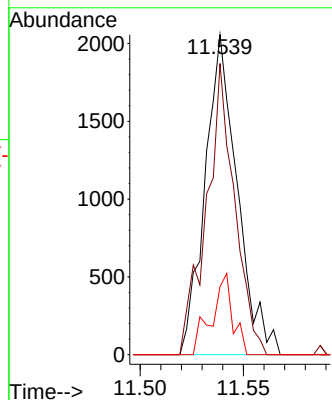
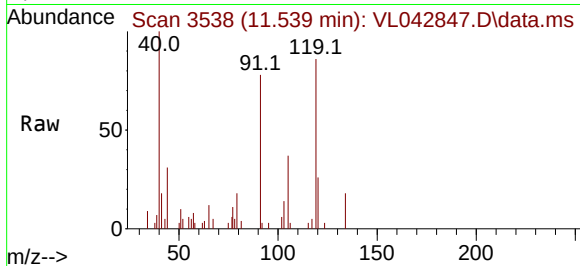




#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

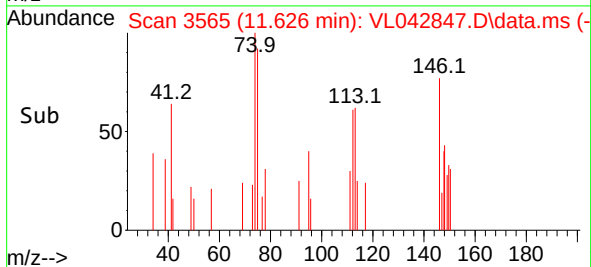
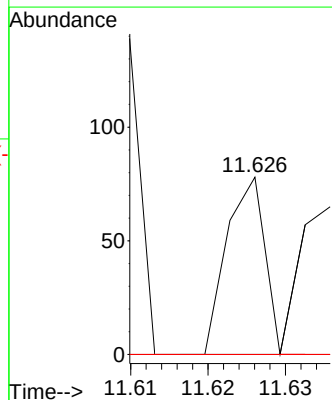
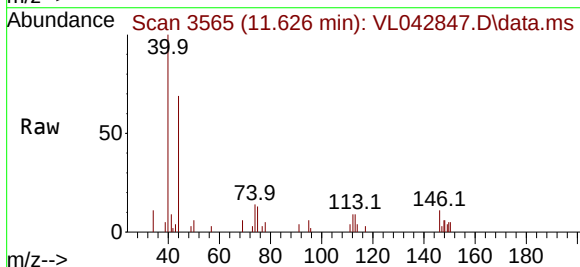
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

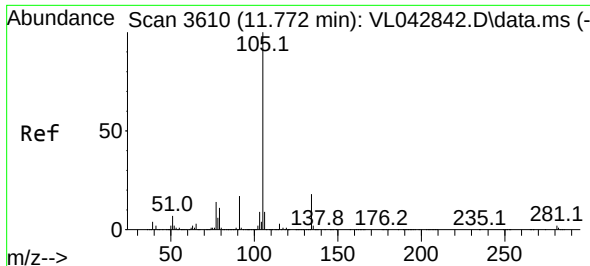
Tgt Ion:	119	Resp:	2234
Ion	Ratio	Lower	Upper
119	100		
91	79.5	63.9	95.9
134	16.7	17.0	25.4#



#66
Benzyl Chloride
Concen: 0.003 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:	91	Resp:	27
Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.2	21.4#
128	0.0	5.0	7.6#

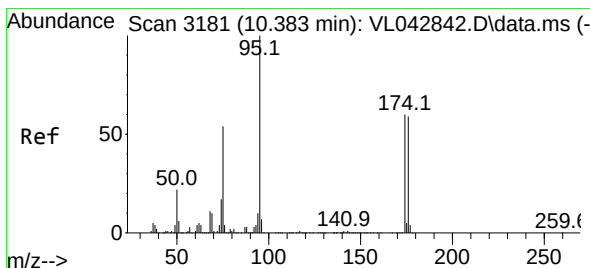
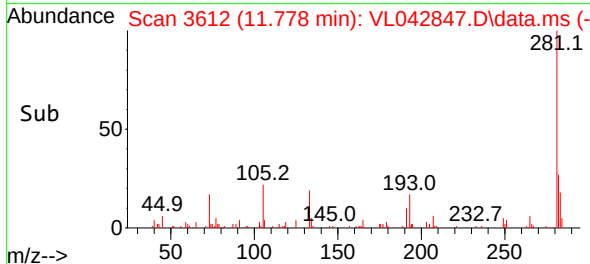
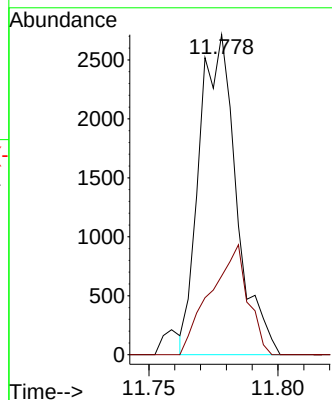
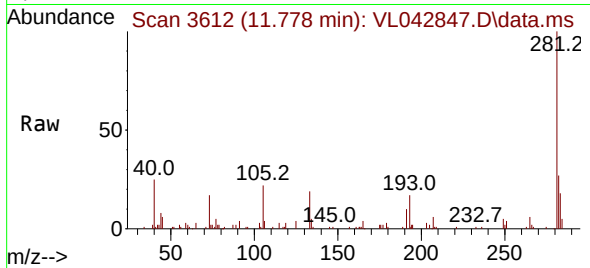




#67
 sec-Butylbenzene
 Concen: 0.032 ppbv
 RT: 11.778 min Scan# 3610
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

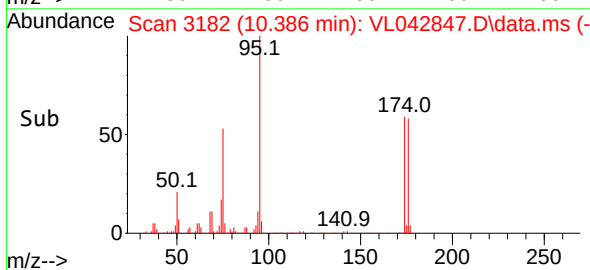
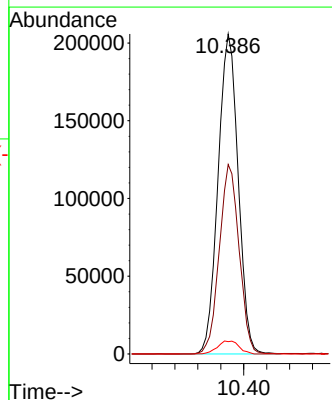
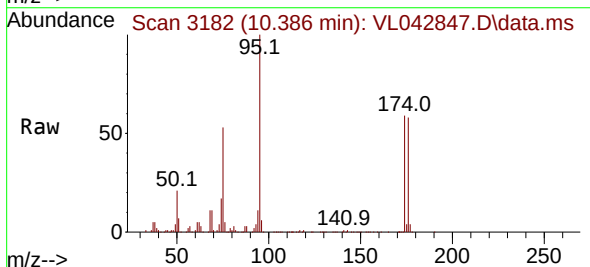
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

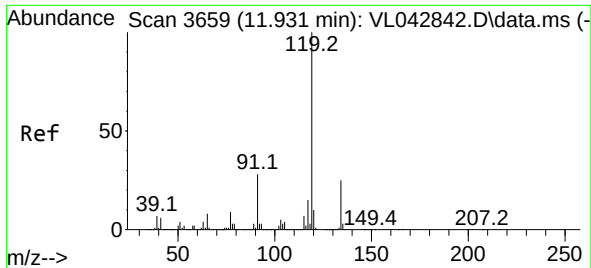
Tgt Ion:105 Resp: 2703
 Ion Ratio Lower Upper
 105 100
 134 34.8 14.9 22.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.816 ppbv
 RT: 10.386 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 95 Resp: 250082
 Ion Ratio Lower Upper
 95 100
 174 58.5 48.4 72.6
 175 4.4 3.8 5.8

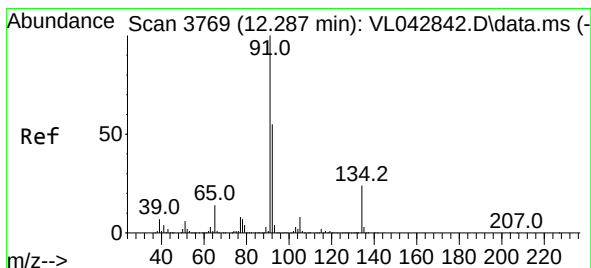
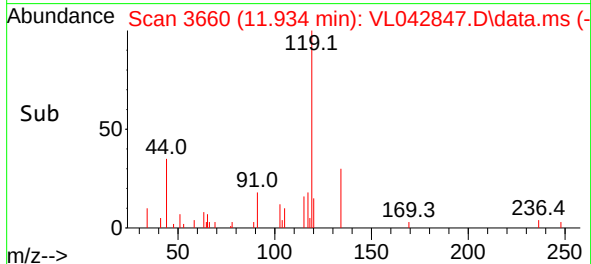
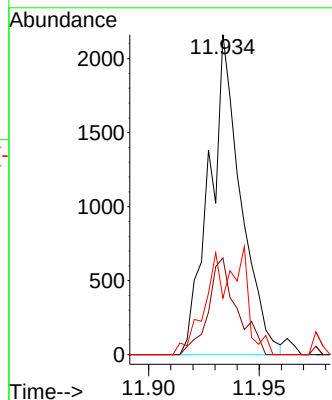
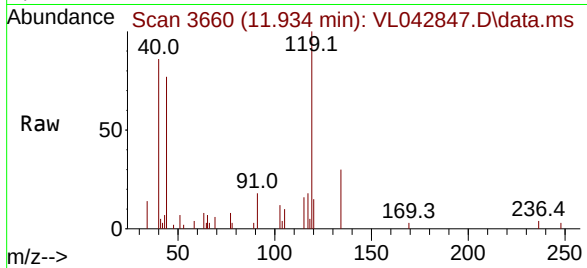




#69
 p-Isopropyltoluene
 Concen: 0.029 ppbv
 RT: 11.934 min Scan# 3660
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

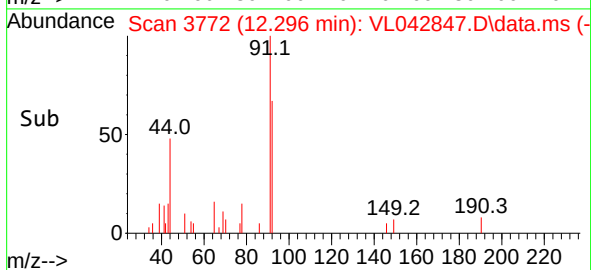
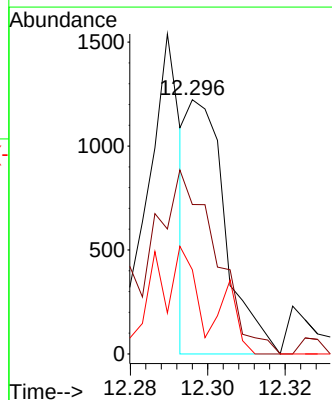
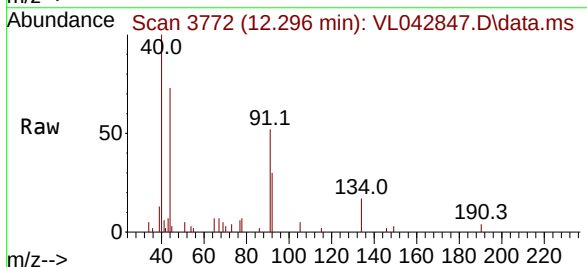
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

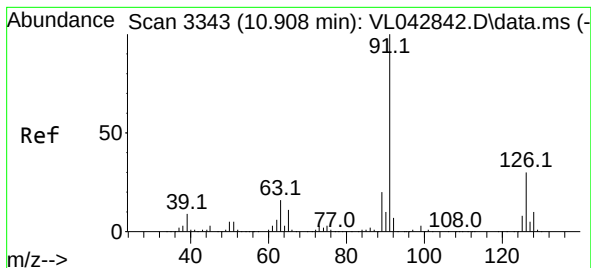
Tgt Ion: 119 Resp: 2136
 Ion Ratio Lower Upper
 119 100
 134 27.7 20.6 30.8
 91 38.2 22.6 34.0#



#70
 n-Butylbenzene
 Concen: 0.011 ppbv
 RT: 12.296 min Scan# 3772
 Delta R.T. 0.009 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 91 Resp: 829
 Ion Ratio Lower Upper
 91 100
 92 132.4 44.6 66.8#
 134 60.6 19.0 28.4#





#71

2-Chlorotoluene

Concen: 0.035 ppbv

RT: 10.911 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

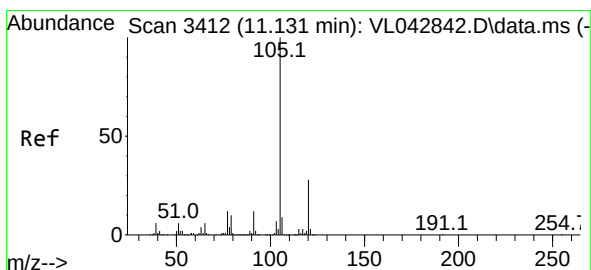
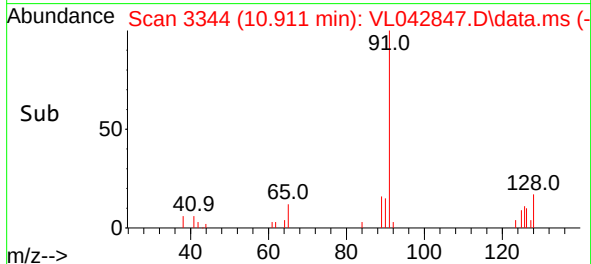
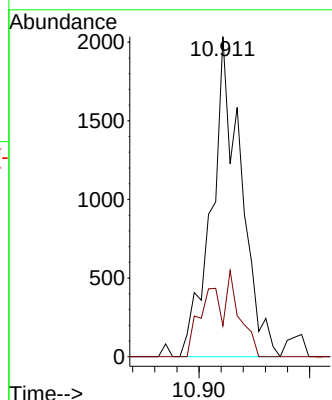
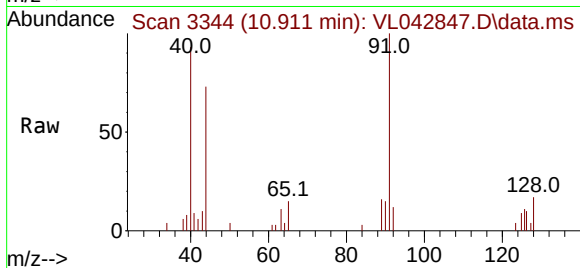
VSTDIC0.03

Tgt Ion: 91 Resp: 1870

Ion Ratio Lower Upper

91 100

126 28.4 12.0 47.8



#72

4-Ethyltoluene

Concen: 0.027 ppbv

RT: 11.134 min Scan# 3413

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 105 Resp: 1543

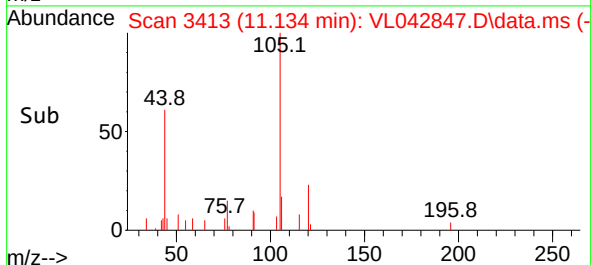
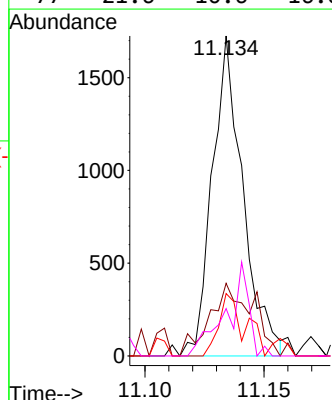
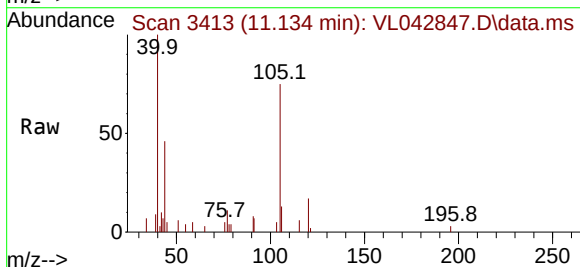
Ion Ratio Lower Upper

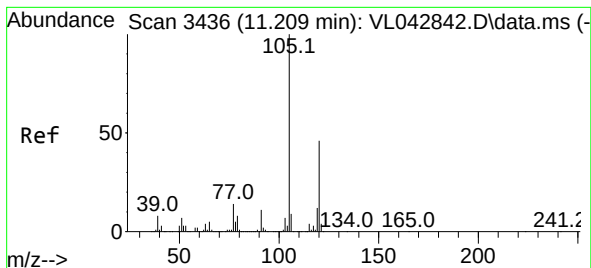
105 100

120 37.8 23.4 35.2#

91 21.4 9.8 14.6#

77 21.6 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.035 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

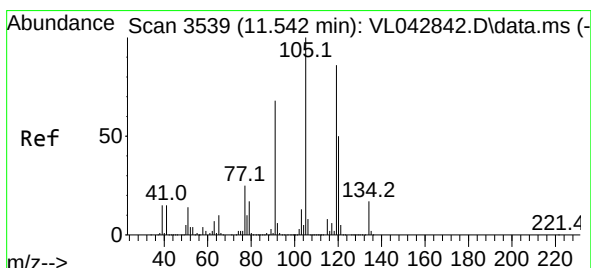
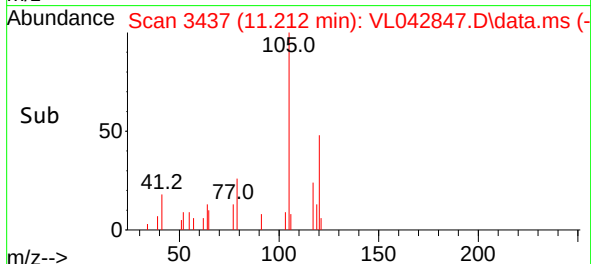
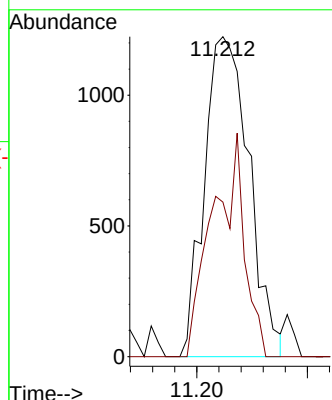
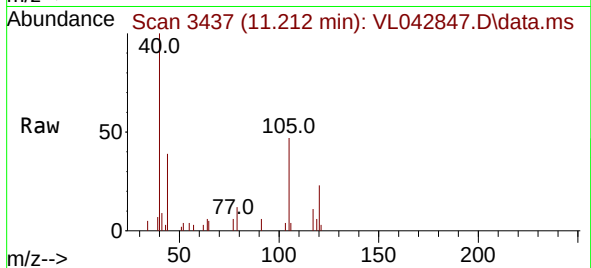
VSTDIC0.03

Tgt Ion:105 Resp: 1716

Ion Ratio Lower Upper

105 100

120 48.3 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.030 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:105 Resp: 1610

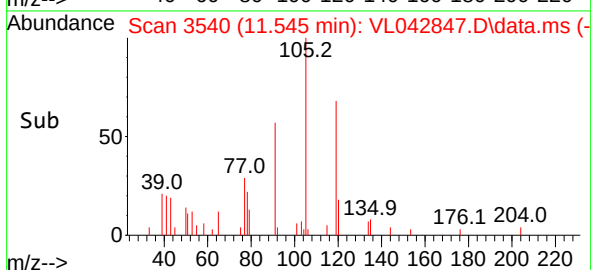
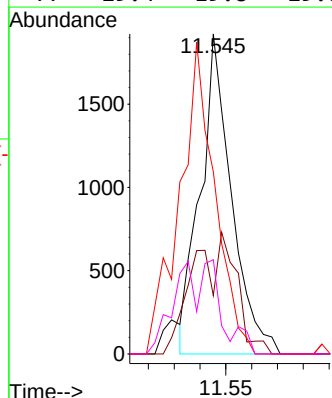
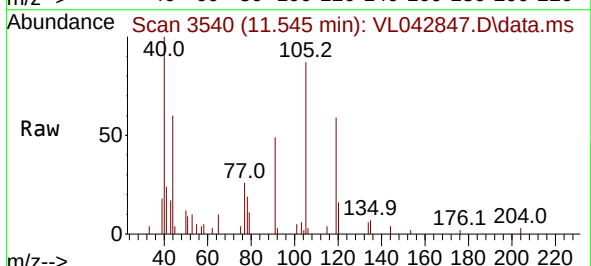
Ion Ratio Lower Upper

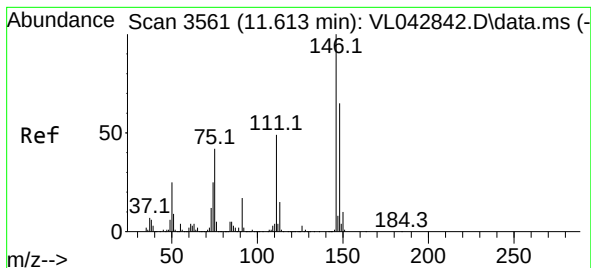
105 100

120 18.3 39.8 59.6#

91 56.9 54.2 81.4

77 29.4 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 0.006 ppbv

RT: 11.623 min Scan# 3561

Delta R.T. 0.009 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.03

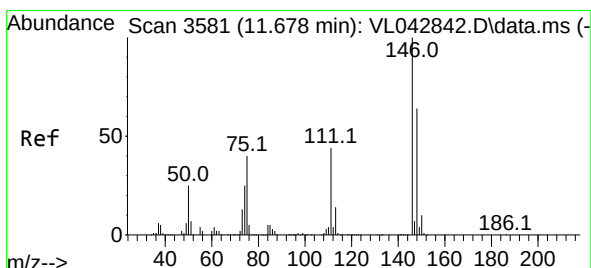
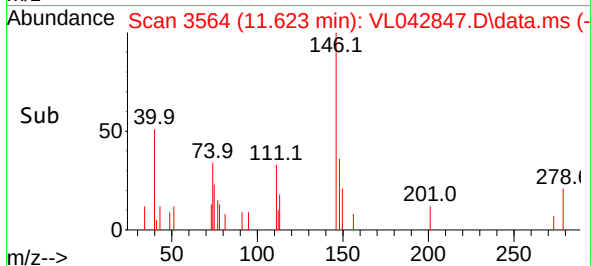
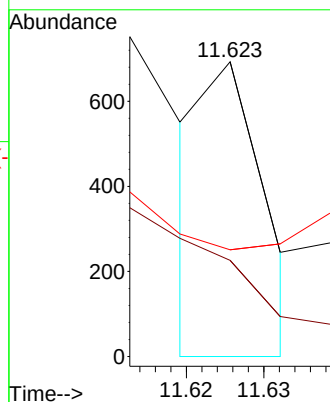
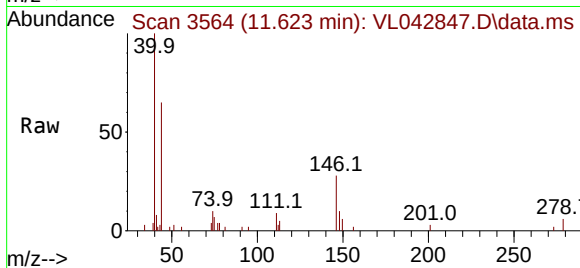
Tgt Ion:146 Resp: 182

Ion Ratio Lower Upper

146 100

111 0.0 23.9 71.7#

148 0.0 31.4 94.0#



#76

1,4-Dichlorobenzene

Concen: 0.019 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

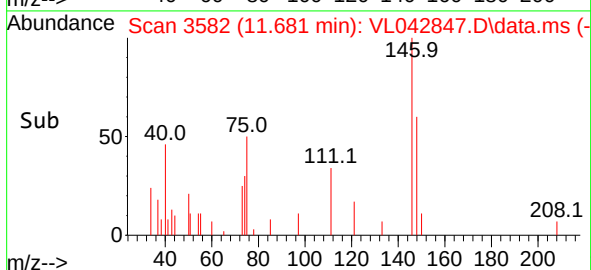
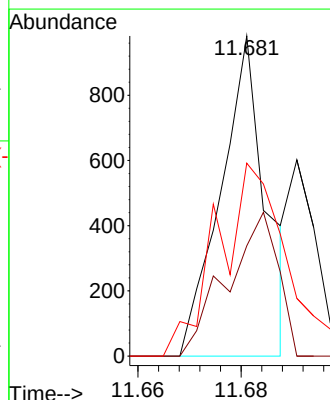
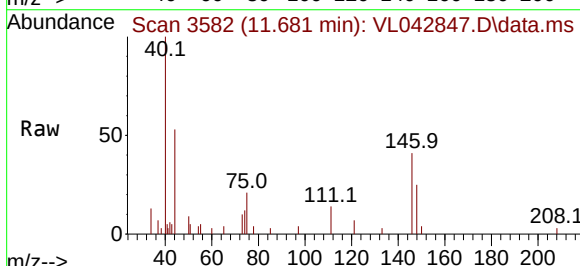
Tgt Ion:146 Resp: 596

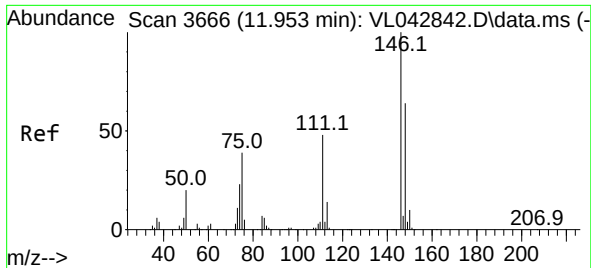
Ion Ratio Lower Upper

146 100

111 58.2 22.7 68.1

148 92.8 31.8 95.3

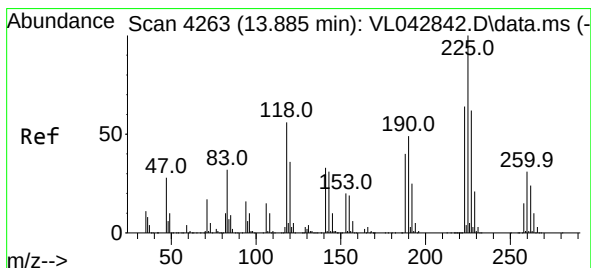
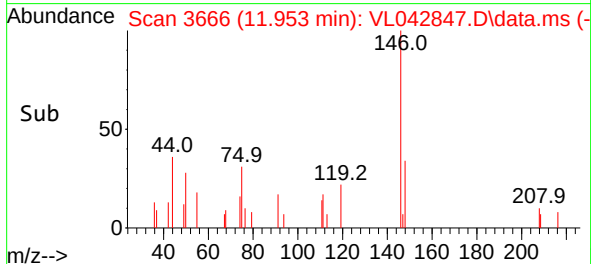
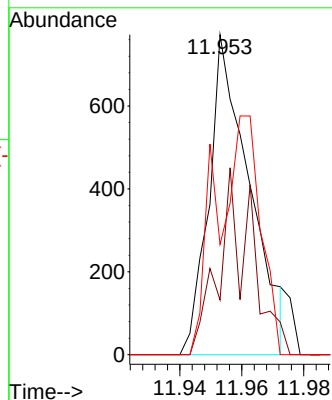
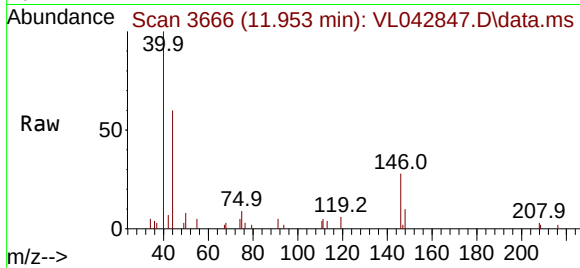




#77
1,2-Dichlorobenzene
Concen: 0.024 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

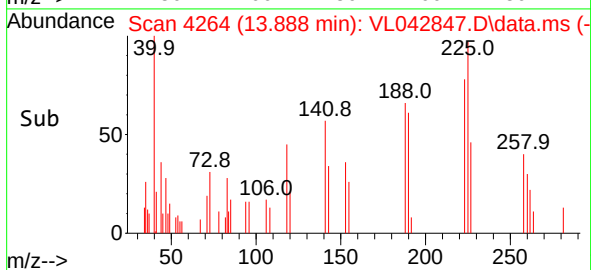
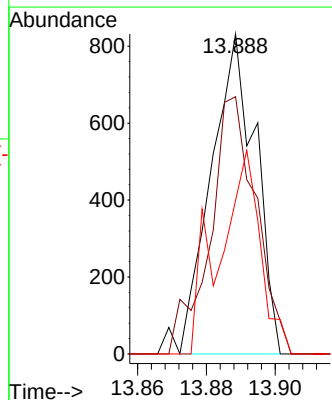
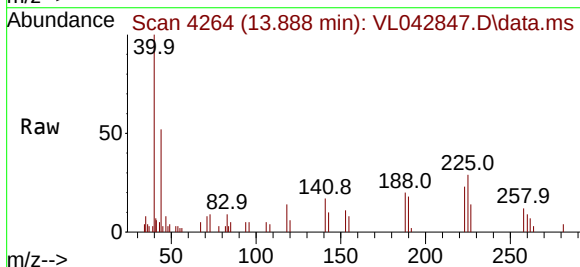
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

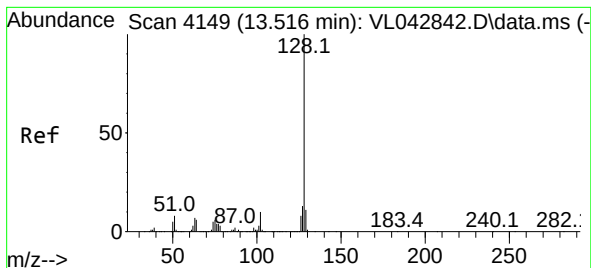
Tgt Ion:	146	Resp:	701
Ion Ratio	Lower	Upper	
146	100		
111	46.9	24.6	74.0
148	80.2	32.0	96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.030 ppbv
RT: 13.888 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:	225	Resp:	744
Ion Ratio	Lower	Upper	
225	100		
223	83.6	51.4	77.2#
227	59.5	51.9	77.9





#79

Naphthalene

Concen: 0.021 ppbv

RT: 13.523 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

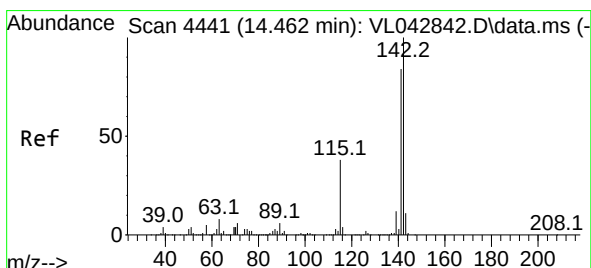
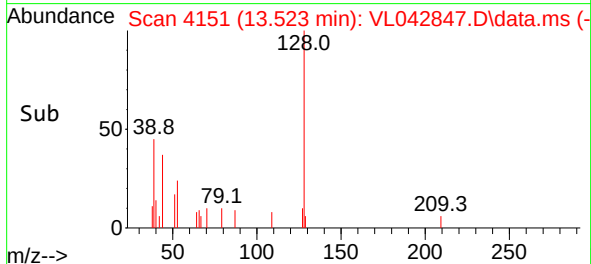
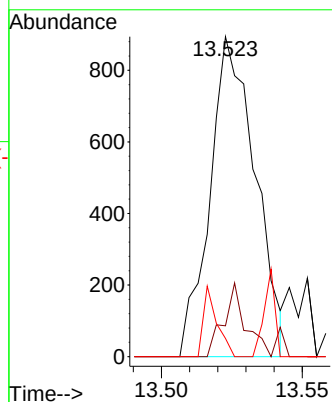
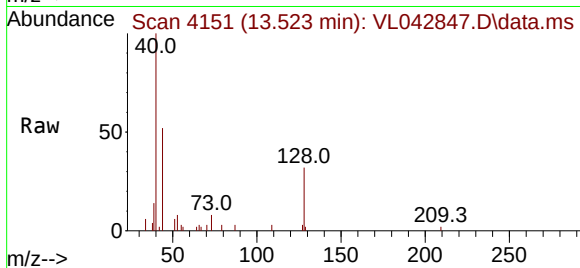
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	128	Resp:	998
Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.6	16.0#
129	5.4	8.9	13.3#



#80

Naphthalene, 2-methyl-

Concen: 0.004 ppbv

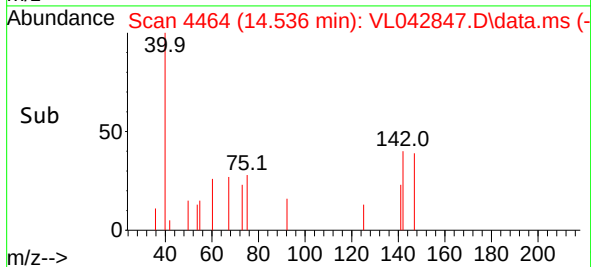
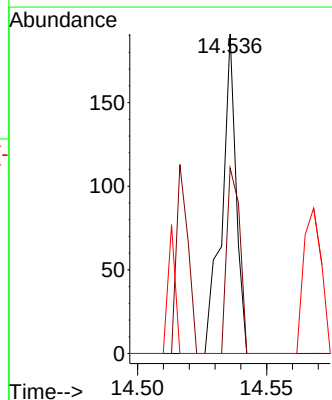
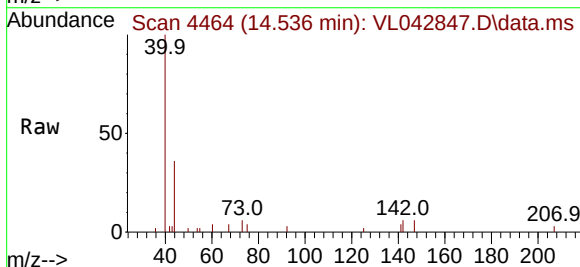
RT: 14.536 min Scan# 4464

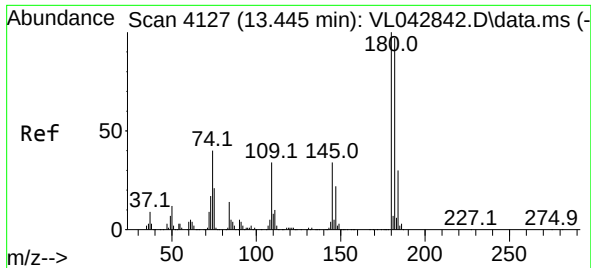
Delta R.T. 0.074 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:	142	Resp:	73
Ion	Ratio	Lower	Upper
142	100		
141	101.4	67.0	100.6#
115	56.2	30.9	46.3#

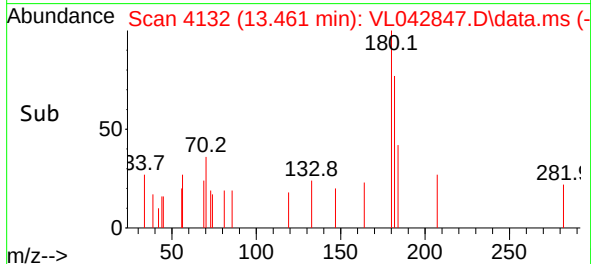
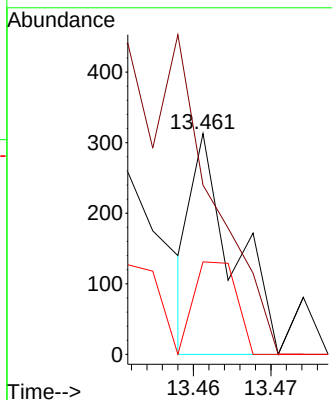
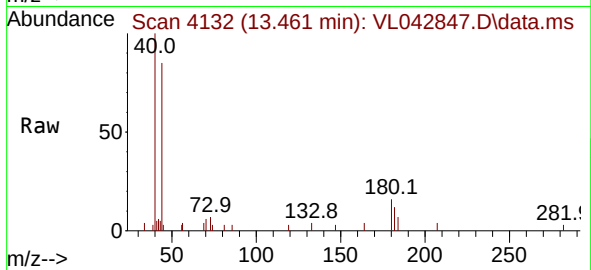




#81
 1,2,4-Trichlorobenzene
 Concen: 0.005 ppbv
 RT: 13.461 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion:180	Resp:	114
Ion	Ratio	Lower Upper
180	100	
182	352.6	76.9 115.3#
184	0.0	24.5 36.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Aug 14 01:51:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	254655	10.050	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

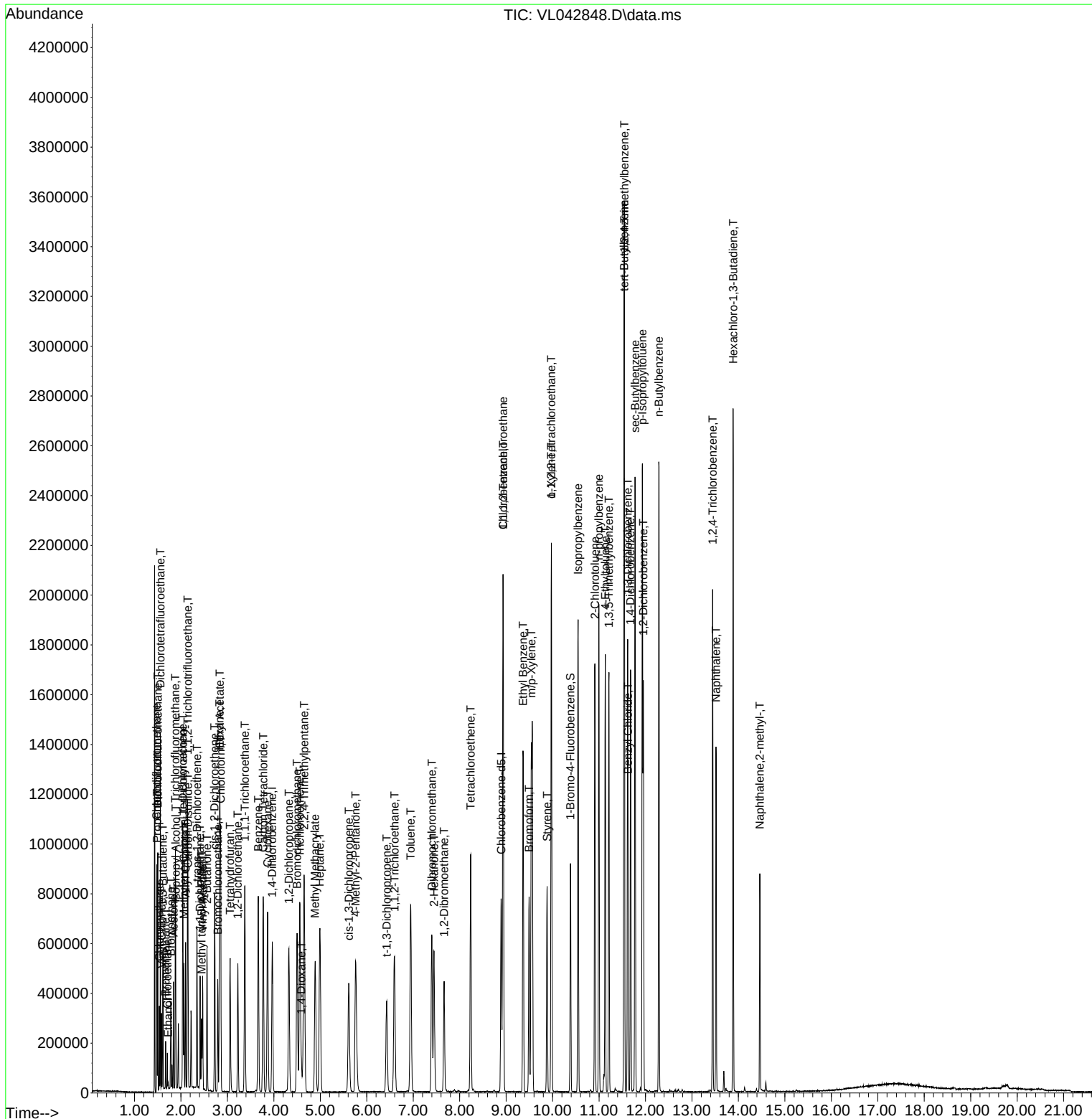
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

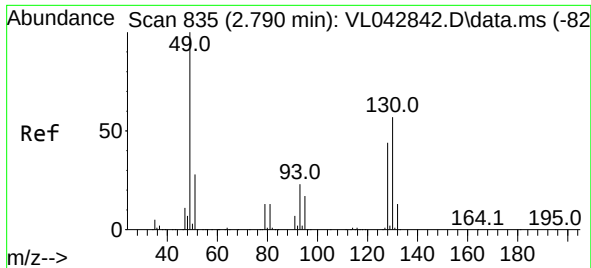
Quant Time: Aug 14 01:51:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.542	91	667628	14.262	ppbv #	100
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

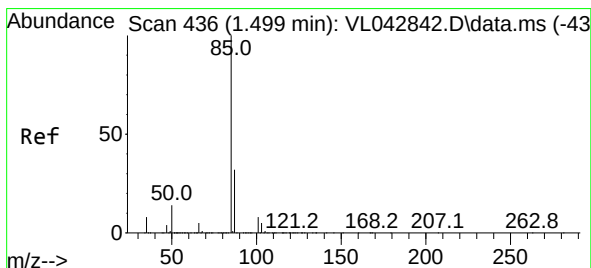
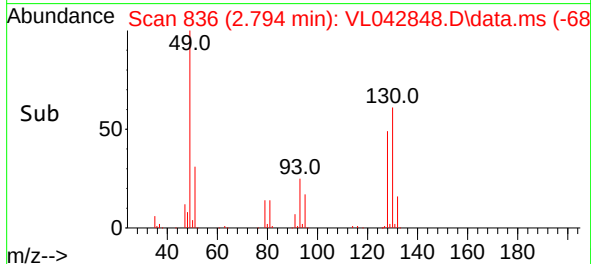
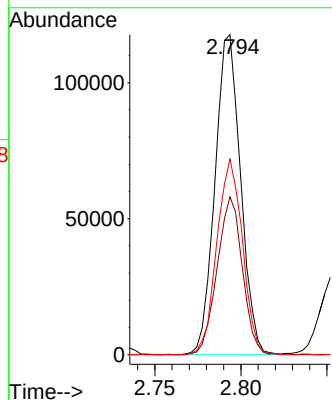
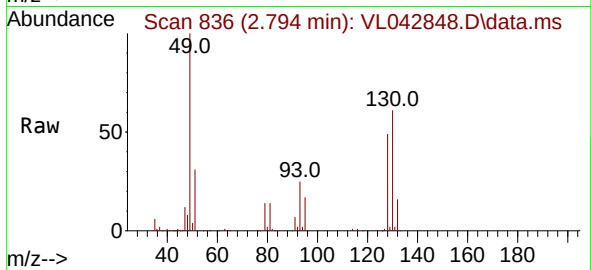




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 835
 Delta R.T. 0.004 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

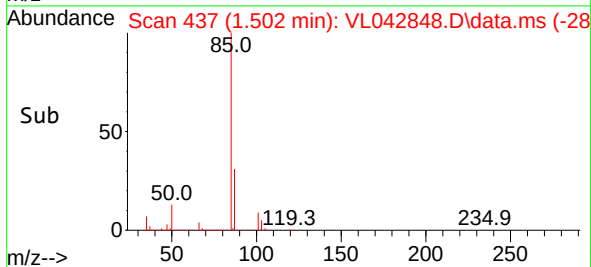
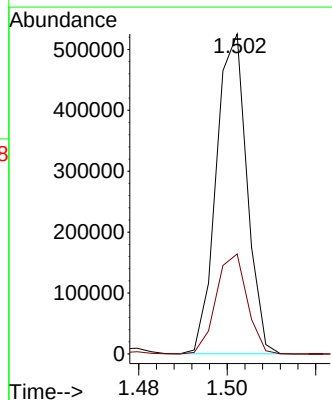
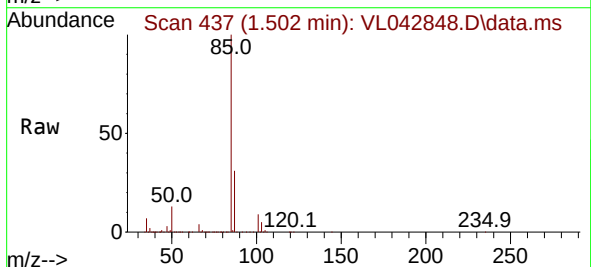
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

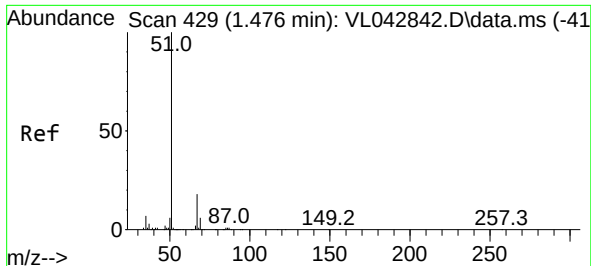
Tgt Ion: 49 Resp: 122073
 Ion Ratio Lower Upper
 49 100
 128 48.4 23.7 71.1
 130 61.2 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 14.150 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151
 Ion Ratio Lower Upper
 85 100
 87 31.2 25.3 37.9

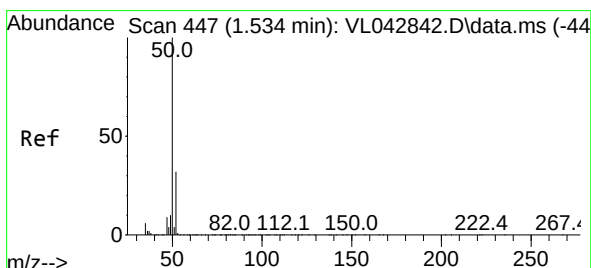
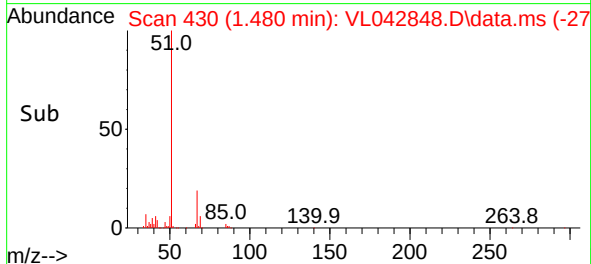
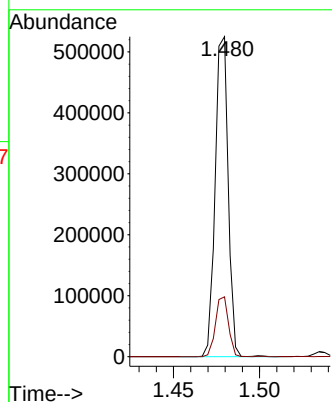
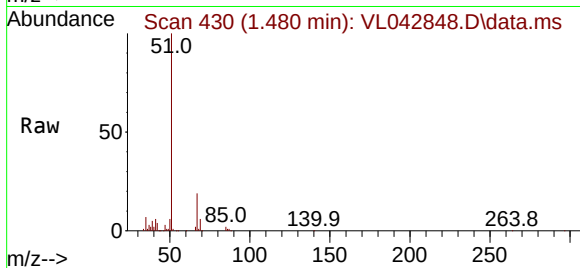




#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

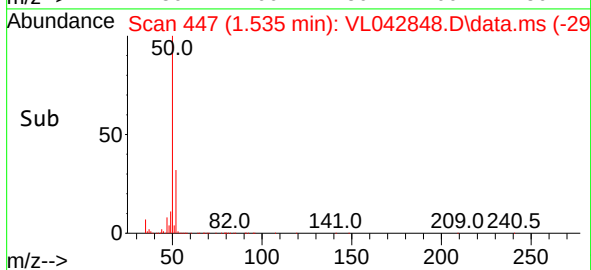
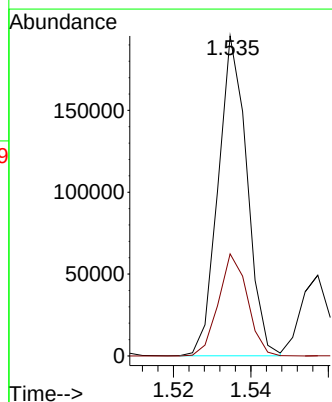
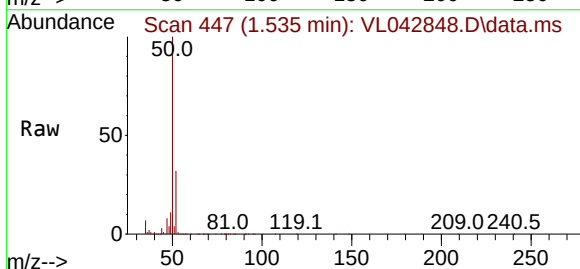
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ClientSampleId :
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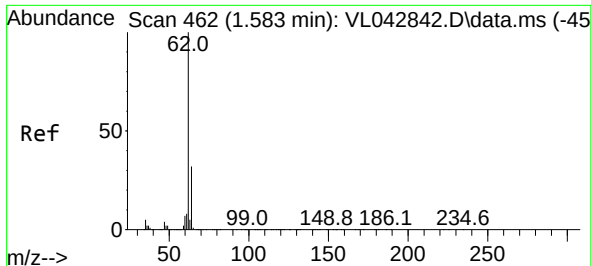
Tgt Ion: 51 Resp: 275350
Ion Ratio Lower Upper
51 100
67 18.9 14.9 22.3



#4
Chloromethane
Concen: 13.986 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 50 Resp: 100974
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9

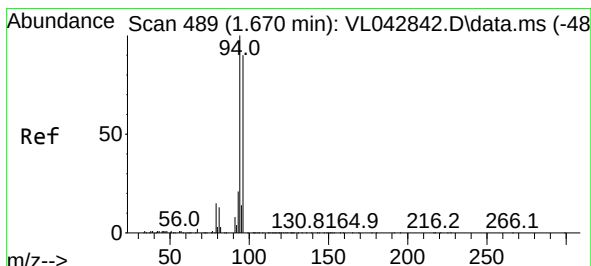
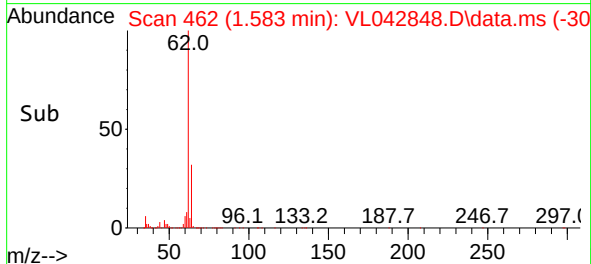
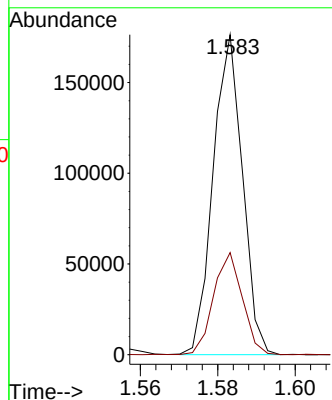
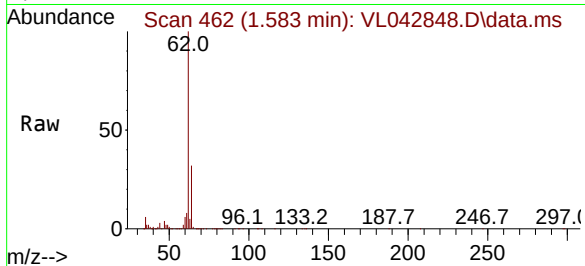




#5
 Vinyl Chloride
 Concen: 13.053 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

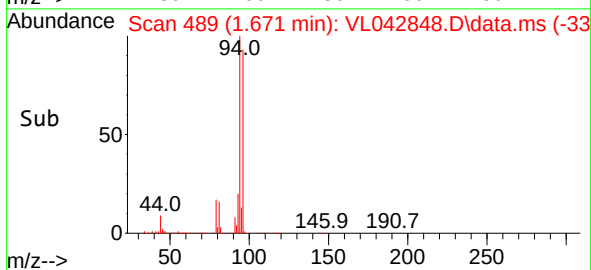
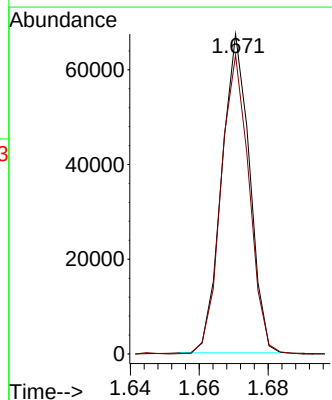
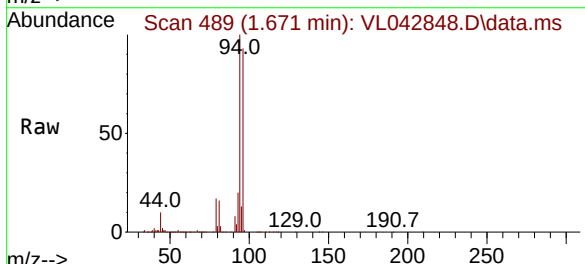
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

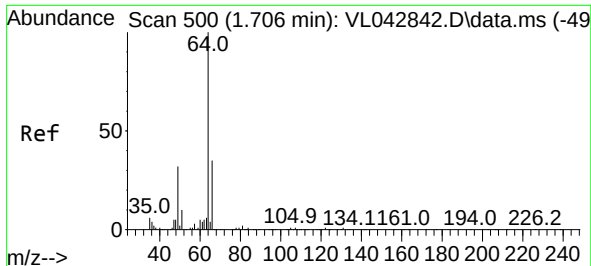
Tgt Ion: 62 Resp: 92812
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2



#6
 Bromomethane
 Concen: 13.275 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 94 Resp: 37740
 Ion Ratio Lower Upper
 94 100
 96 93.7 72.1 108.1

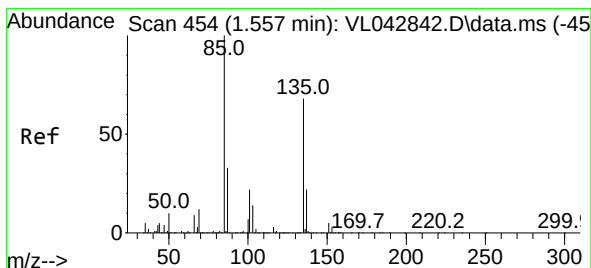
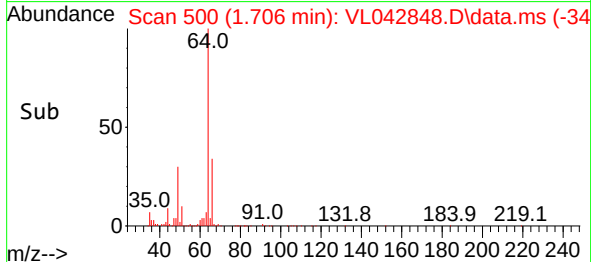
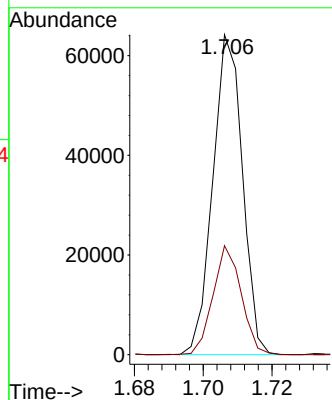
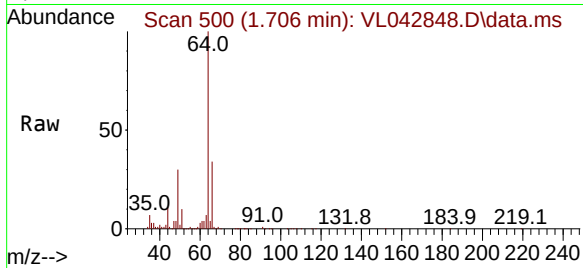




#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

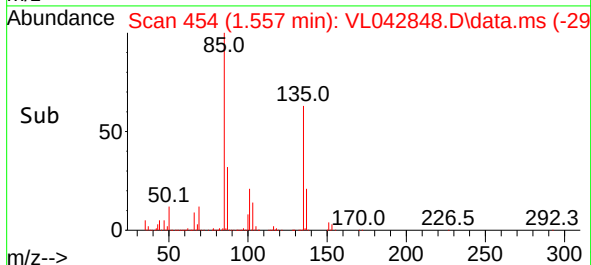
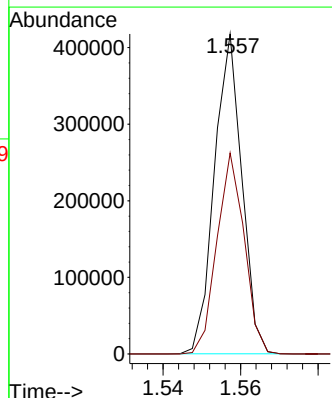
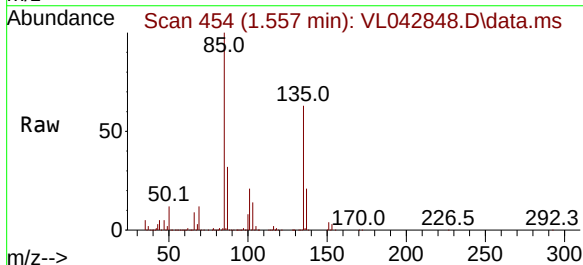
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

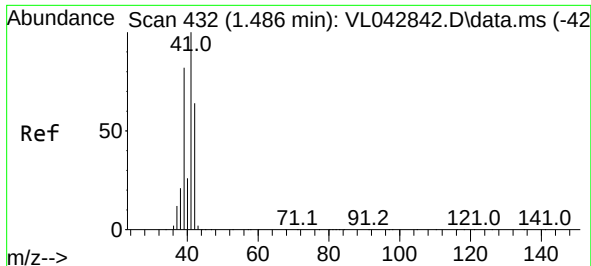
Tgt Ion: 64 Resp: 38398
Ion Ratio Lower Upper
64 100
66 34.1 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 205386
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9

Propene

Concen: 13.094 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

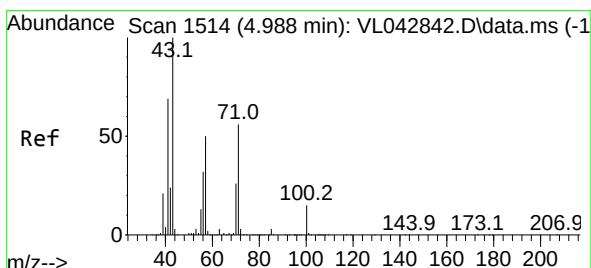
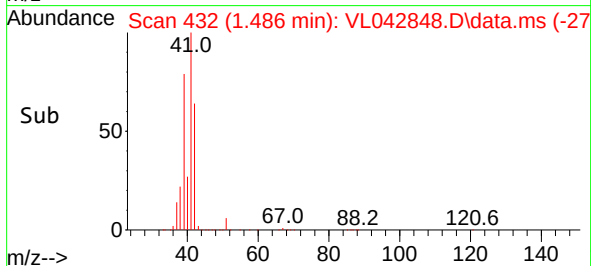
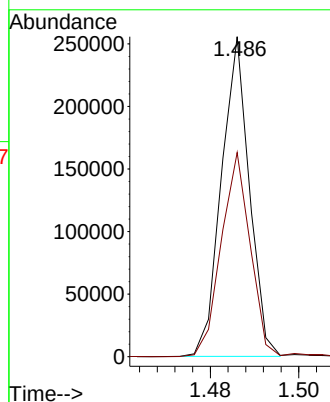
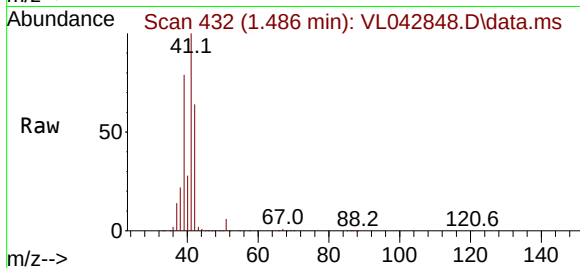
VSTDIC015

Tgt Ion: 41 Resp: 111824

Ion Ratio Lower Upper

41 100

42 67.0 53.0 79.4



#10

Heptane

Concen: 13.742 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042848.D

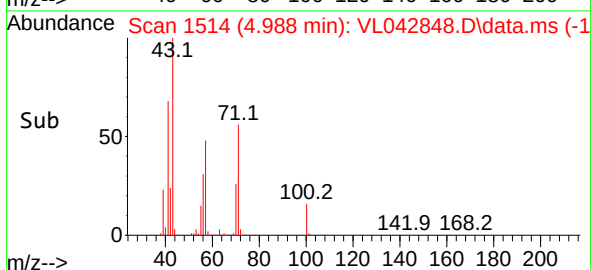
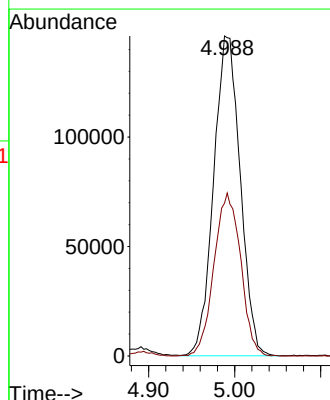
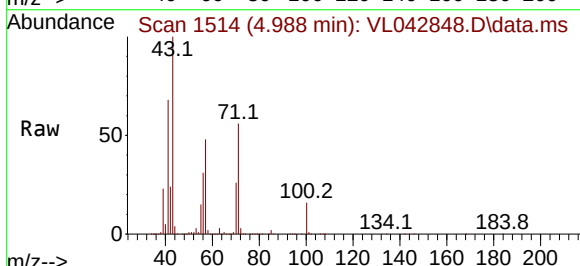
Acq: 13 Aug 2025 12:06

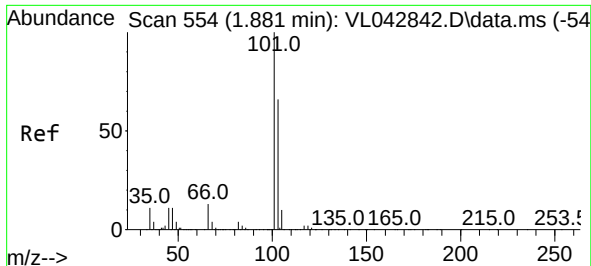
Tgt Ion: 43 Resp: 313734

Ion Ratio Lower Upper

43 100

57 51.0 41.4 62.0

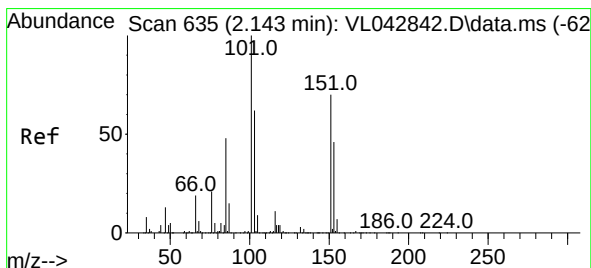
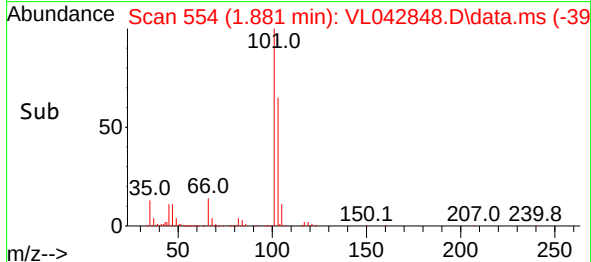
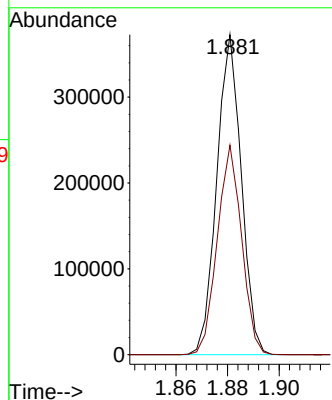
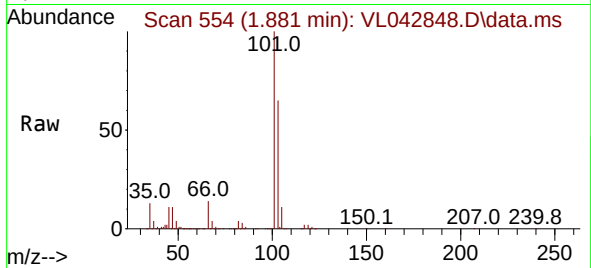




#11
 Trichlorofluoromethane
 Concen: 13.957 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

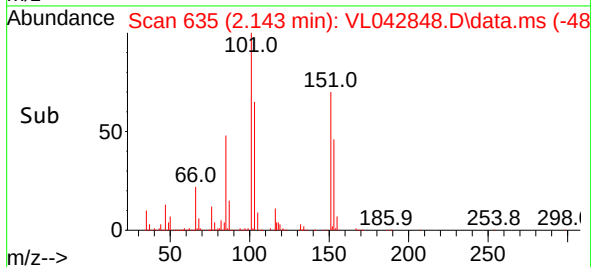
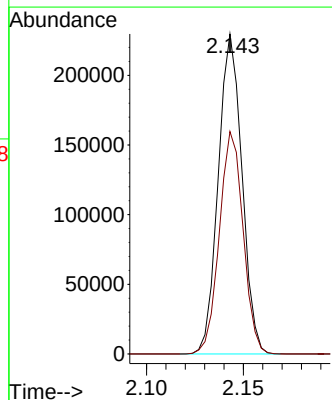
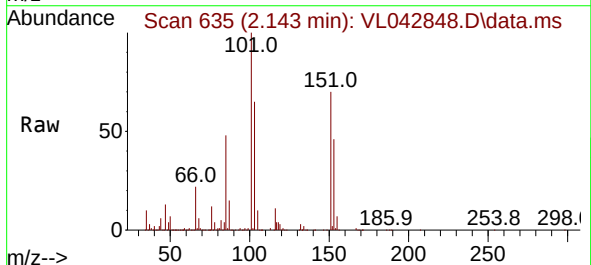
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

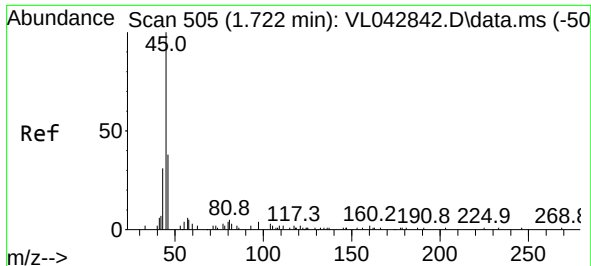
Tgt Ion:101 Resp: 246354
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.877 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion:101 Resp: 195231
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6

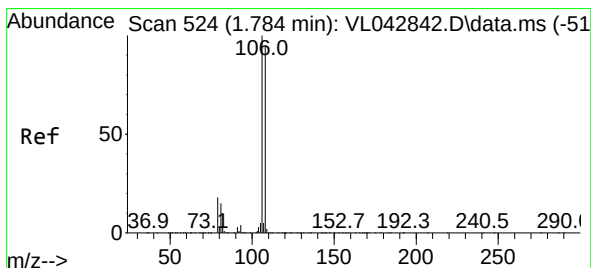
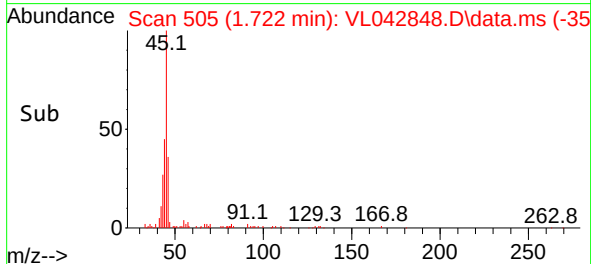
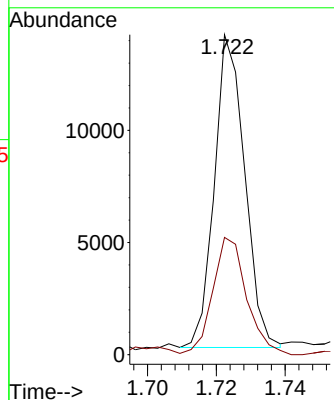
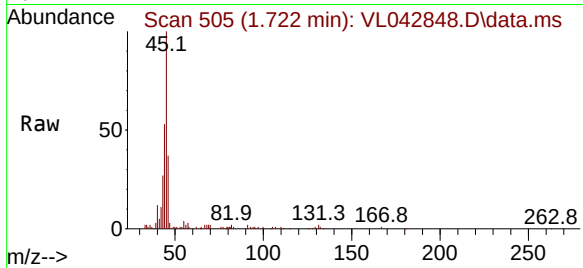




#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

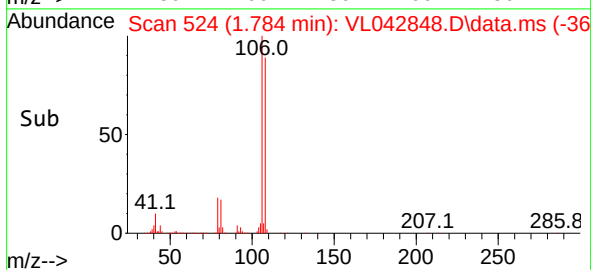
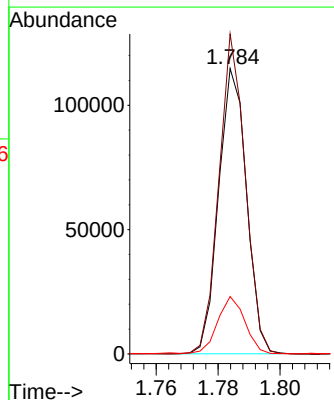
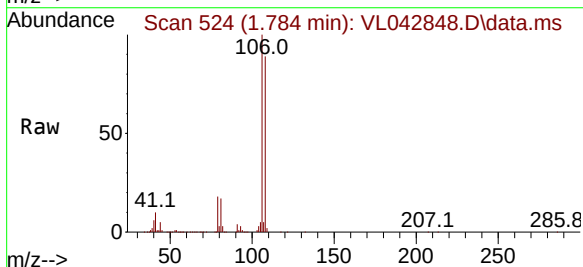
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

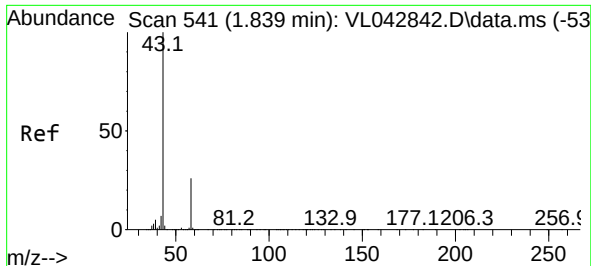
Tgt Ion: 45 Resp: 8534
Ion Ratio Lower Upper
45 100
46 42.3 17.5 69.9



#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 108 Resp: 71671
Ion Ratio Lower Upper
108 100
106 106.0 85.1 127.7
79 19.4 16.3 24.5

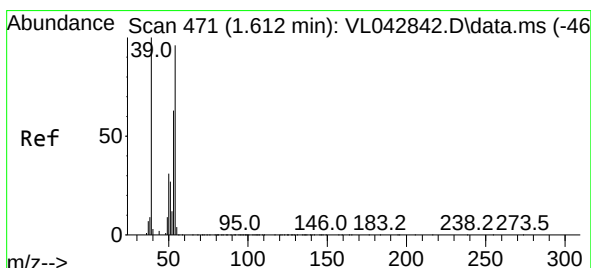
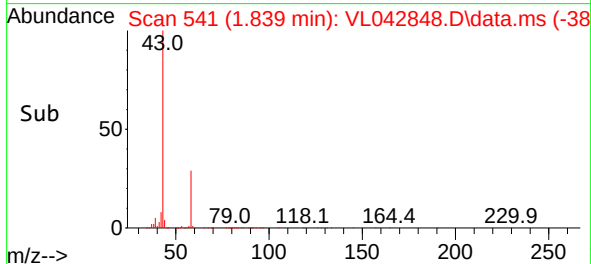
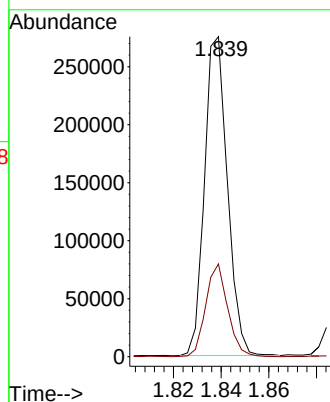
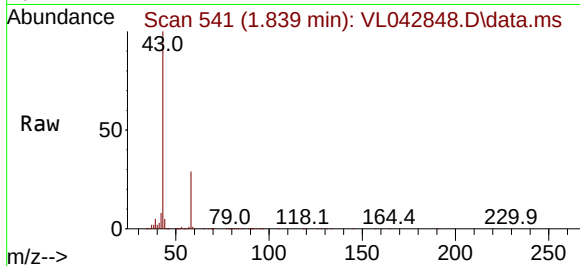




#15
Acetone
Concen: 11.402 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

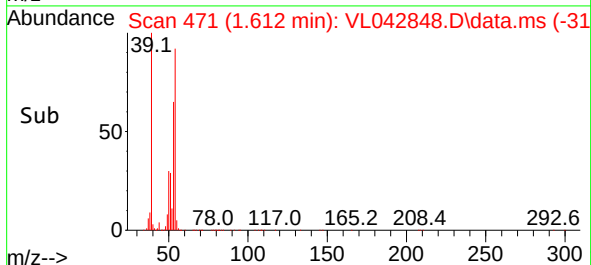
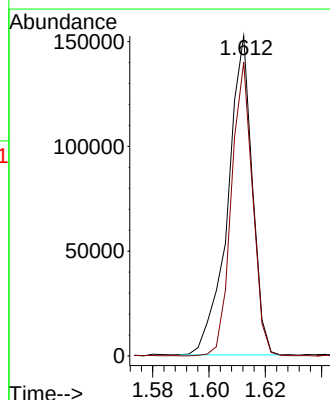
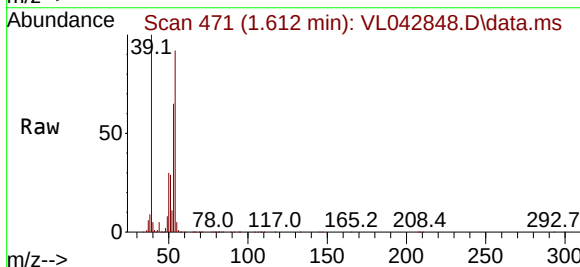
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

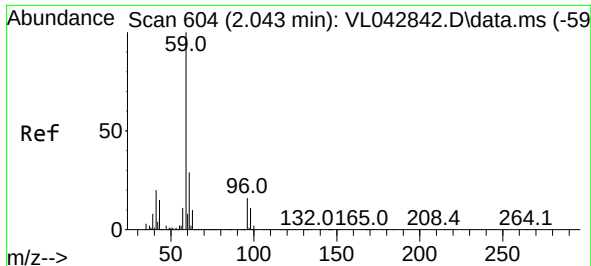
Tgt Ion: 43 Resp: 184116
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 39 Resp: 92068
Ion Ratio Lower Upper
39 100
54 79.7 63.6 95.4





#17

tert-Butyl alcohol

Concen: 12.765 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_1

ClientSampleId :

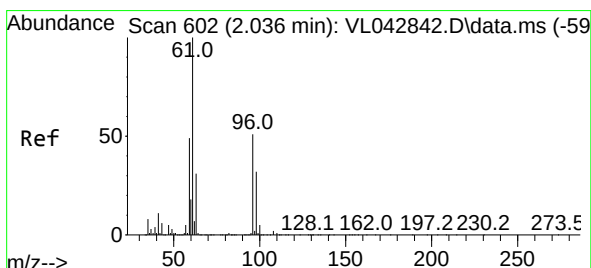
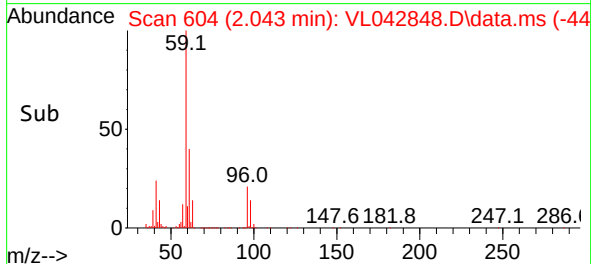
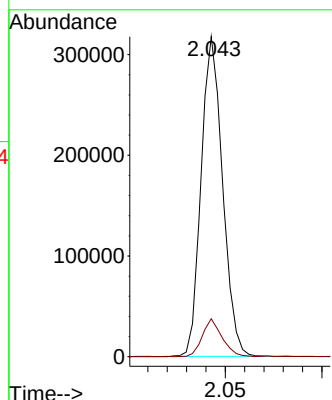
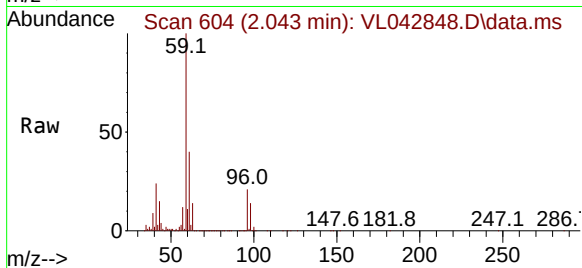
VSTDIC015

Tgt Ion: 59 Resp: 244441

Ion Ratio Lower Upper

59 100

57 11.3 9.0 13.4



#18

1,1-Dichloroethene

Concen: 13.961 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

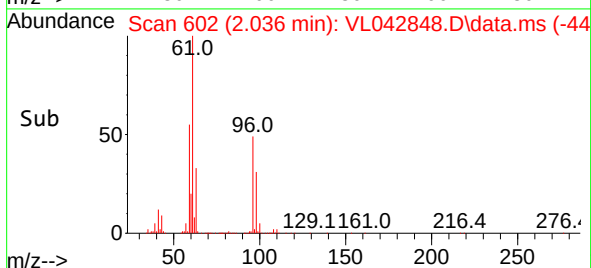
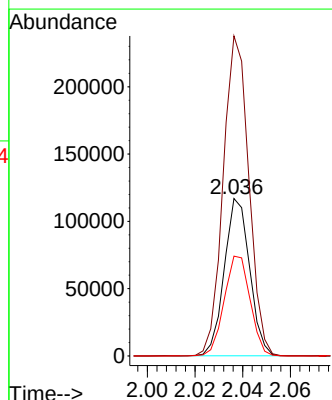
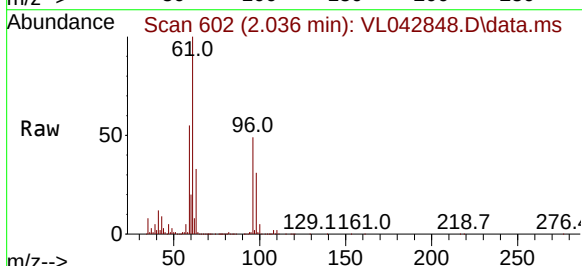
Tgt Ion: 96 Resp: 86349

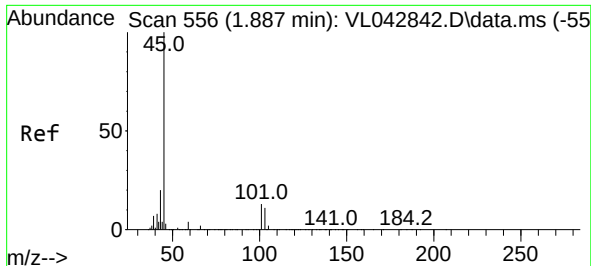
Ion Ratio Lower Upper

96 100

61 203.3 158.2 237.4

98 63.3 50.6 76.0

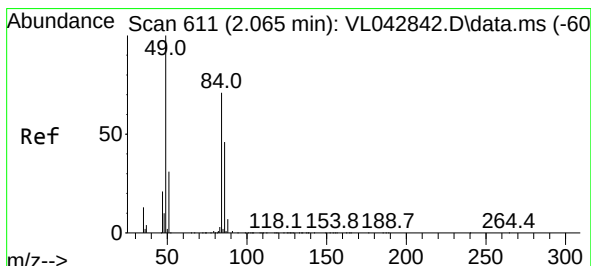
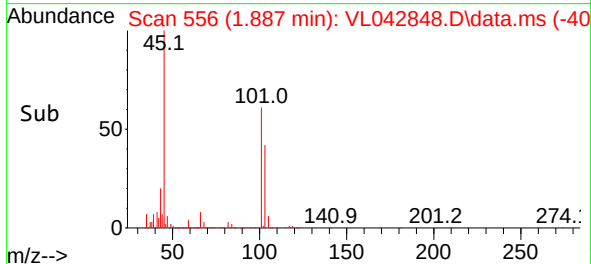
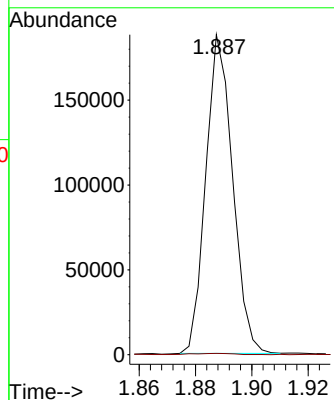
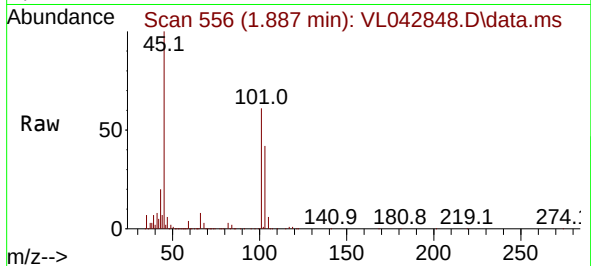




#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

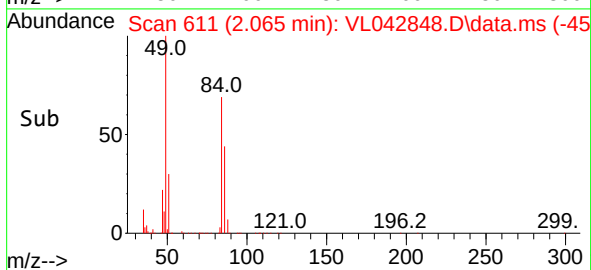
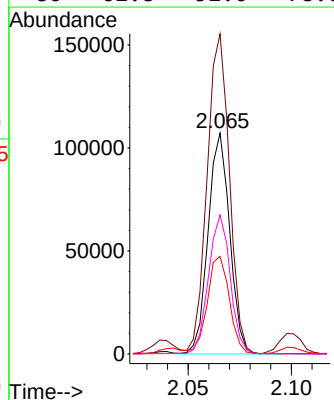
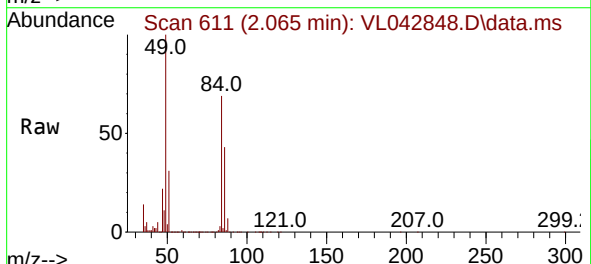
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

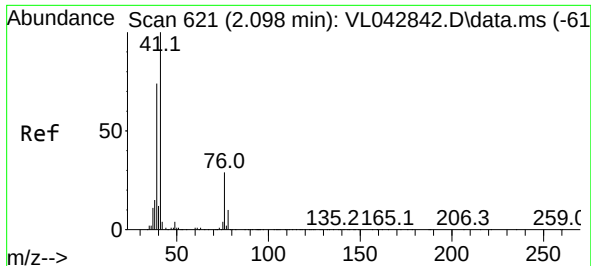
Tgt Ion: 45 Resp: 124270
Ion Ratio Lower Upper
45 100
58 41.3 32.7 49.1



#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 84 Resp: 77749
Ion Ratio Lower Upper
84 100
49 143.1 112.3 168.5
51 42.5 36.0 54.0
86 62.8 52.0 78.0

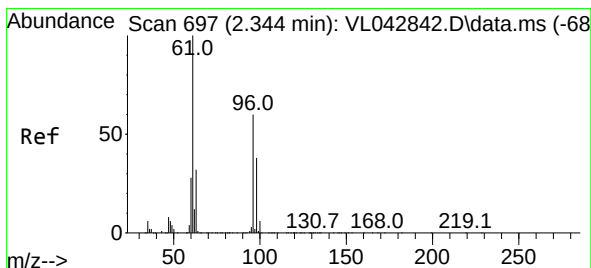
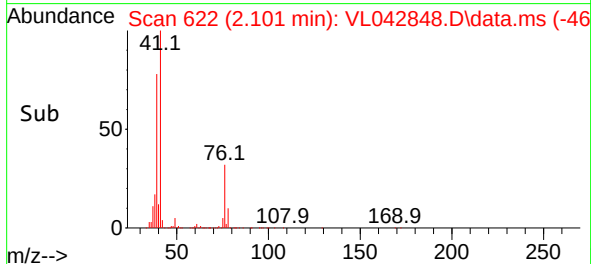
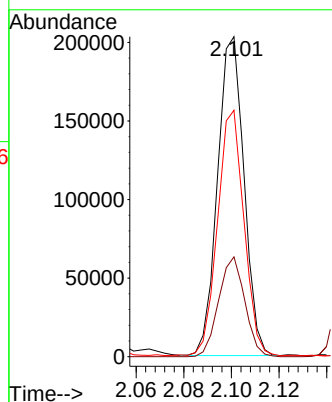
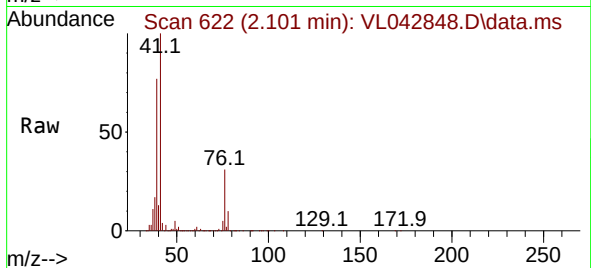




#21
 Allyl Chloride
 Concen: 13.703 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

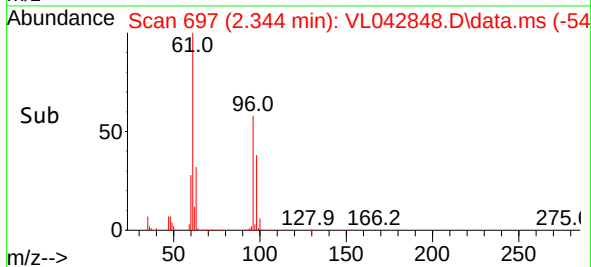
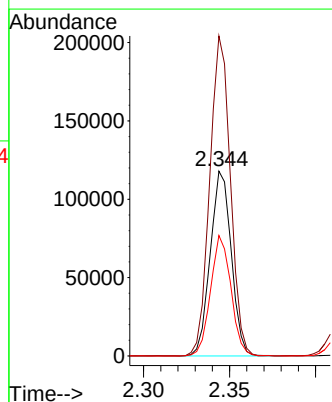
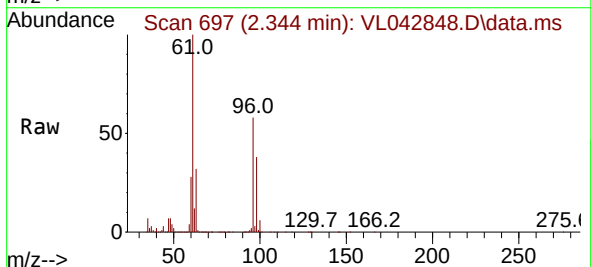
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

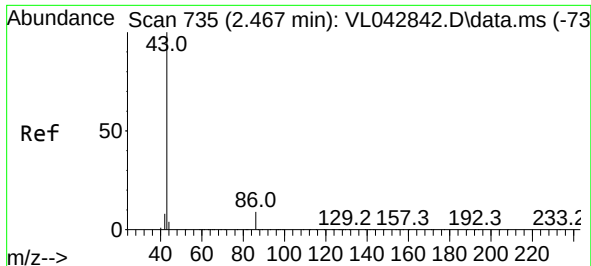
Tgt Ion: 41 Resp: 156318
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 76.9 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 14.465 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 100064
 Ion Ratio Lower Upper
 96 100
 61 173.1 132.6 199.0
 98 65.2 50.0 75.0



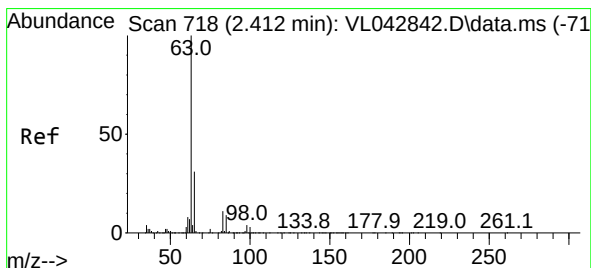
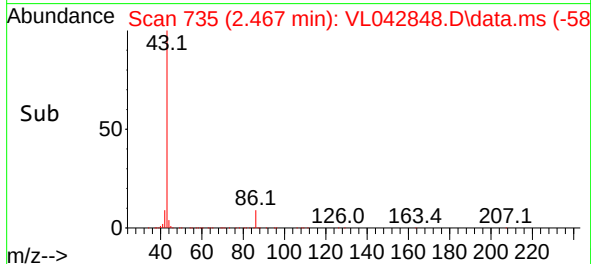
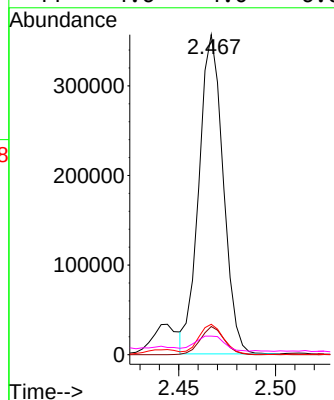
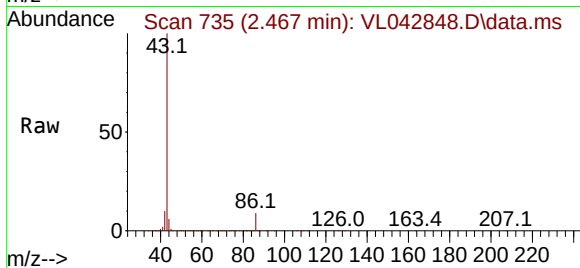


#23
 Vinyl Acetate
 Concen: 14.557 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 309236

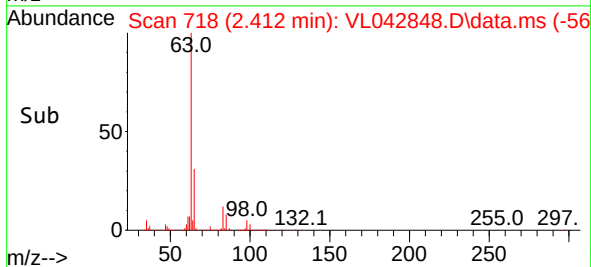
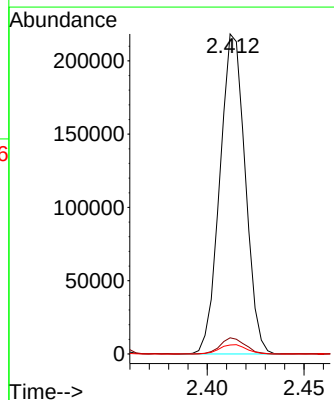
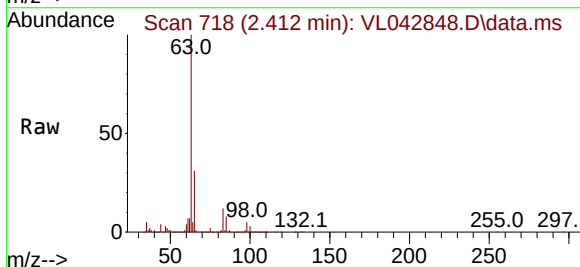
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.4	7.0	10.6
44	4.6	4.0	6.0

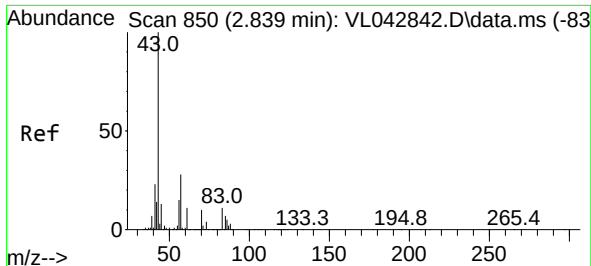


#24
 1,1-Dichloroethane
 Concen: 13.944 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 63 Resp: 199276

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.1	6.5
100	2.8	1.7	5.1

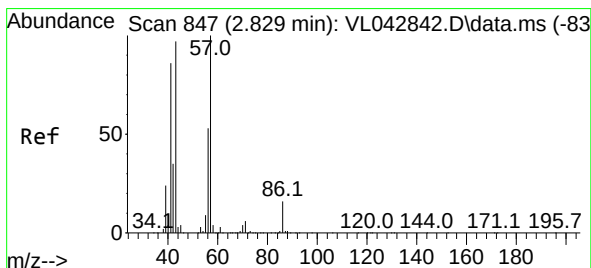
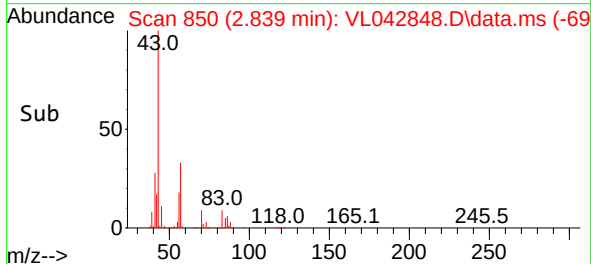
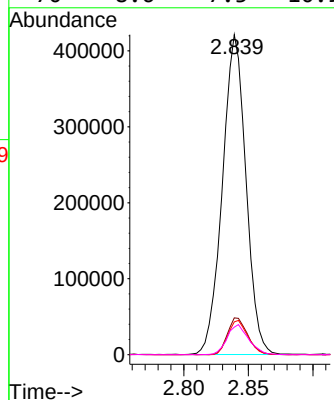
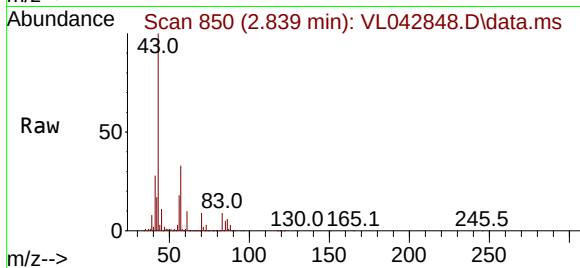




#25
Ethyl Acetate
Concen: 13.653 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

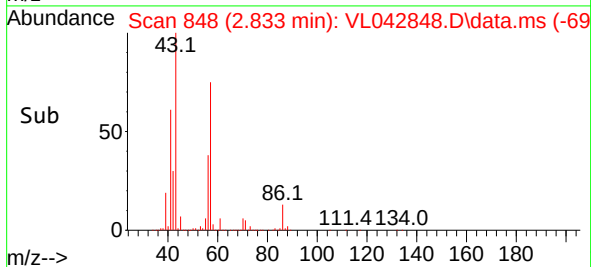
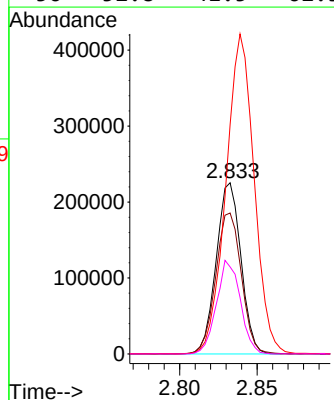
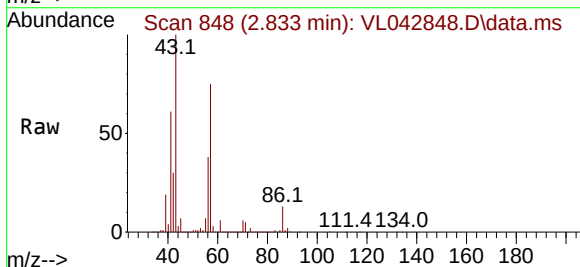
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

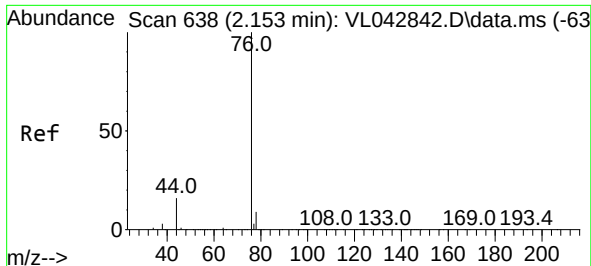
Tgt Ion:	43	Resp:	533600
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.2	7.4	11.2
70	8.6	7.3	10.9



#26
Hexane
Concen: 13.869 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:	57	Resp:	250189
Ion	Ratio	Lower	Upper
57	100		
41	85.8	68.6	103.0
43	214.3	168.5	252.7
56	52.8	41.5	62.3

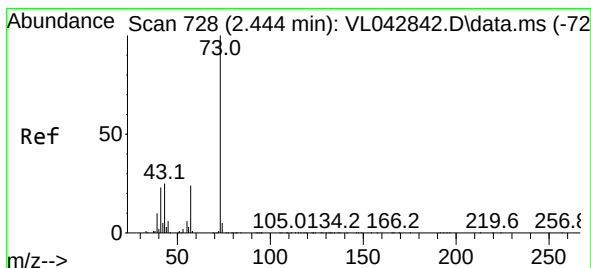
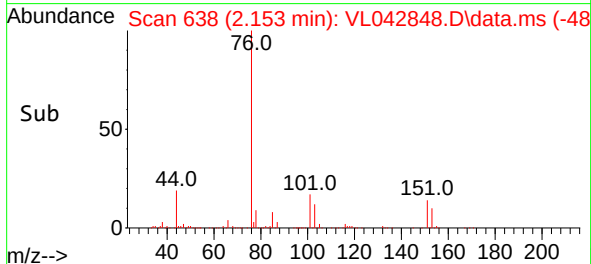
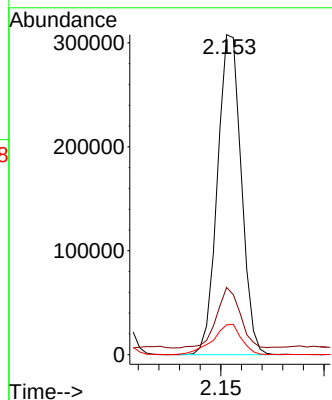
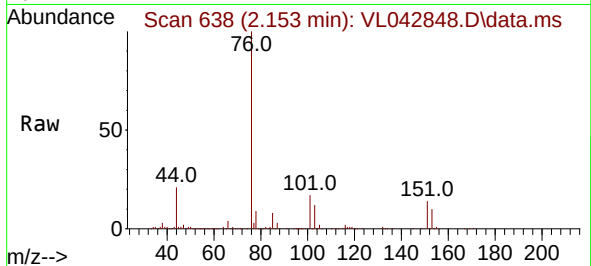




#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

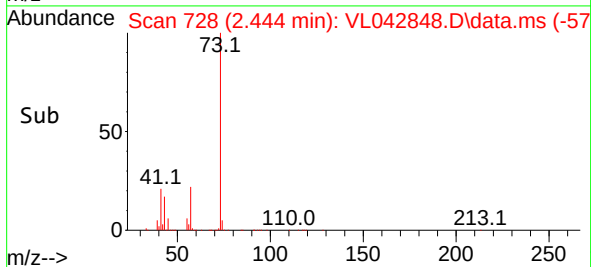
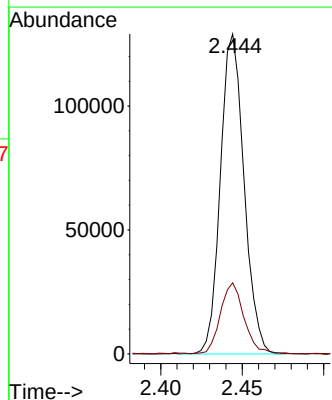
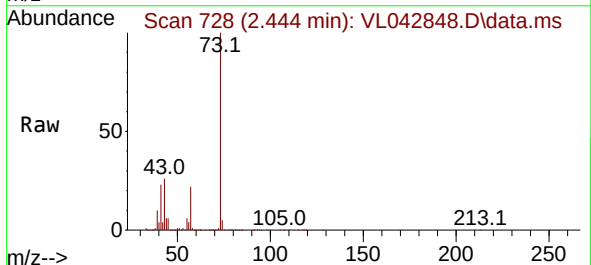
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

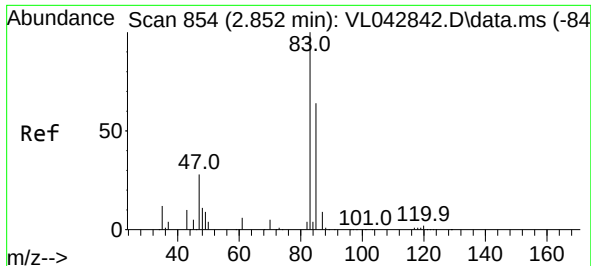
Tgt Ion: 76 Resp: 246868
Ion Ratio Lower Upper
76 100
44 19.7 15.9 23.9
78 11.4 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 73 Resp: 129978
Ion Ratio Lower Upper
73 100
57 22.5 21.6 32.4





#29

Chloroform

Concen: 14.003 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

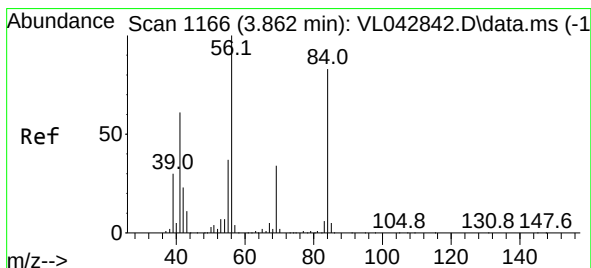
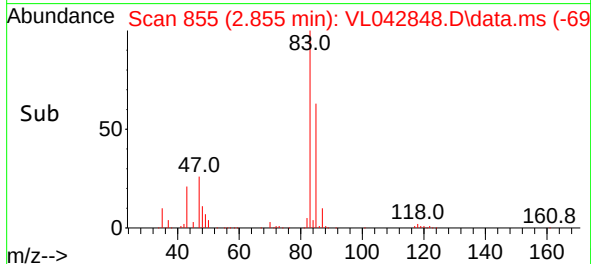
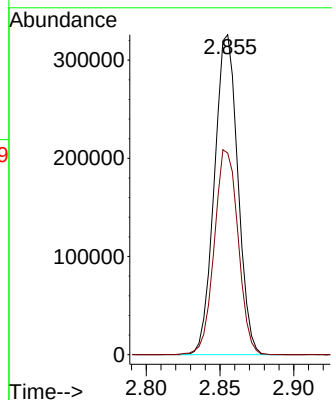
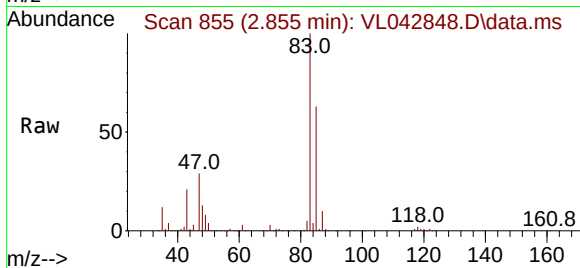
VSTDIC015

Tgt Ion: 83 Resp: 360661

Ion Ratio Lower Upper

83 100

85 63.0 51.1 76.7



#30

Cyclohexane

Concen: 14.088 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

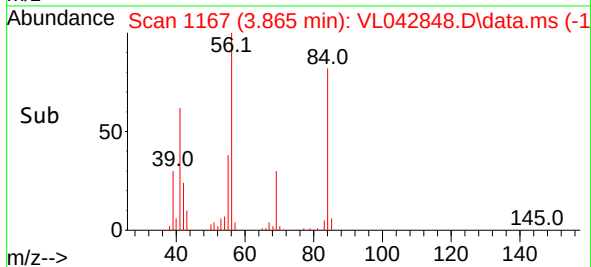
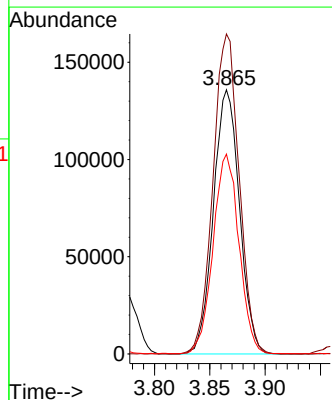
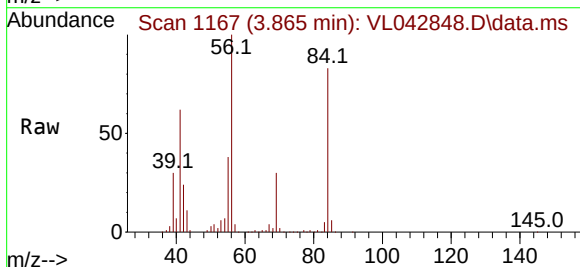
Tgt Ion: 84 Resp: 222820

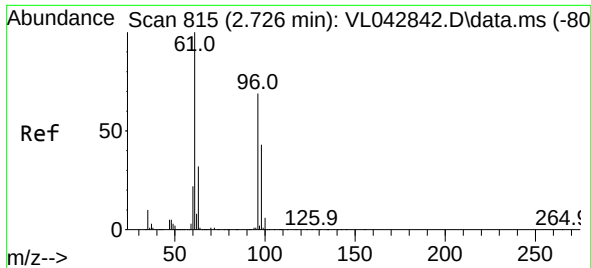
Ion Ratio Lower Upper

84 100

56 121.5 98.8 148.2

41 75.1 61.3 91.9

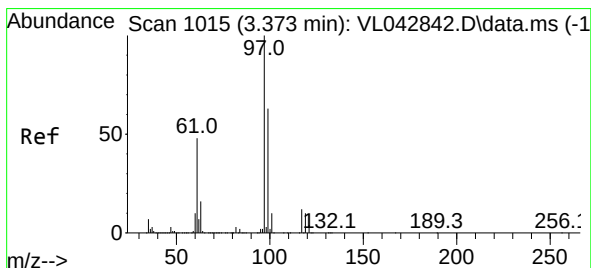
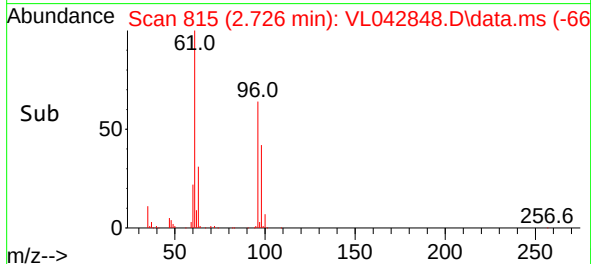
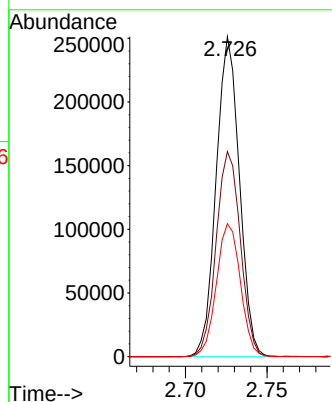
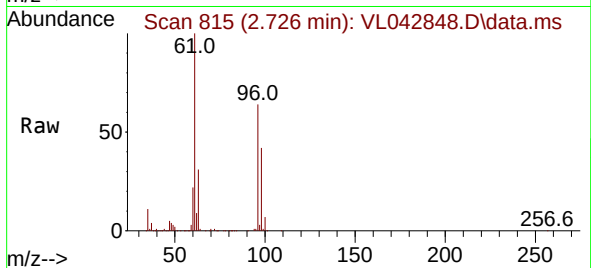




#31
 cis-1,2-Dichloroethene
 Concen: 13.821 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

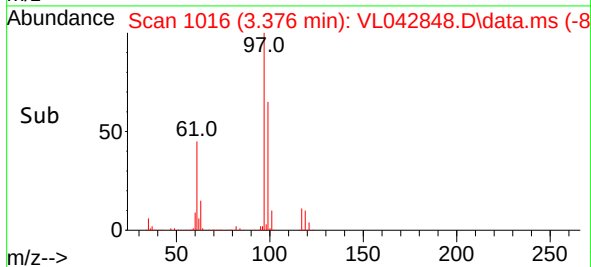
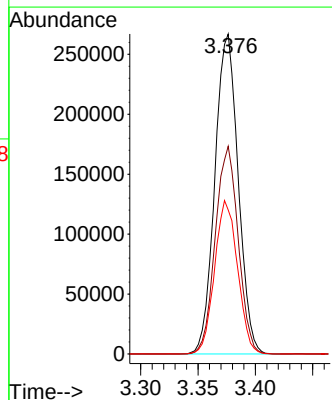
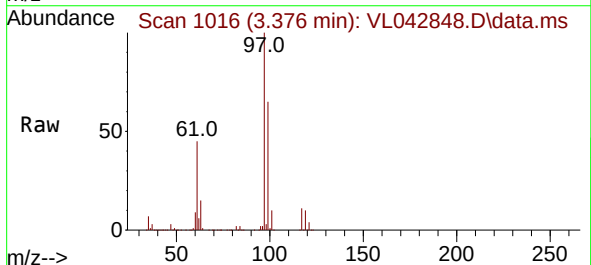
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

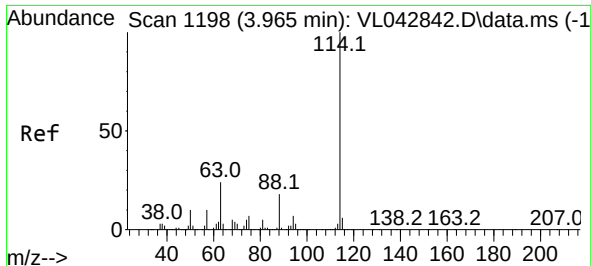
Tgt Ion: 61 Resp: 249376
 Ion Ratio Lower Upper
 61 100
 96 64.1 55.0 82.6
 98 41.6 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 13.851 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 97 Resp: 377739
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 47.2 38.0 57.0

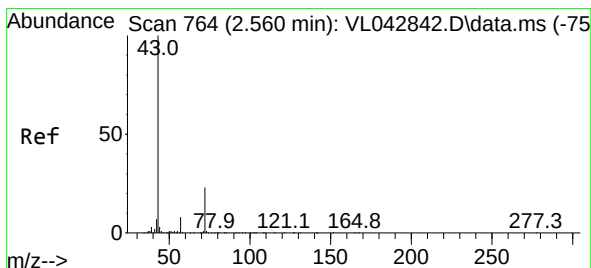
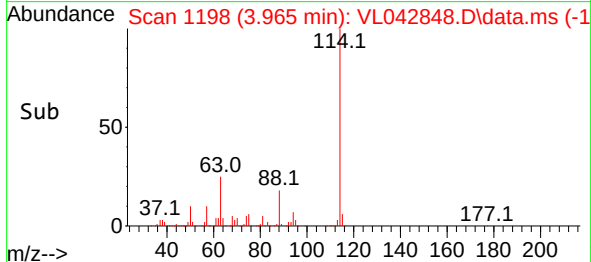
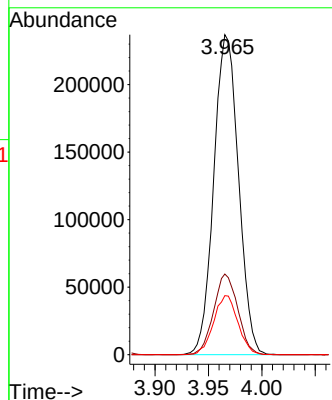
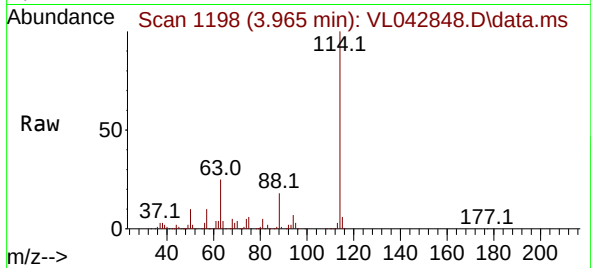




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

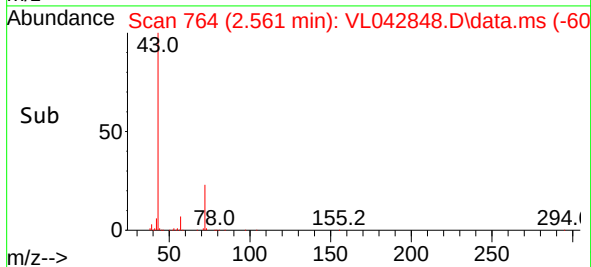
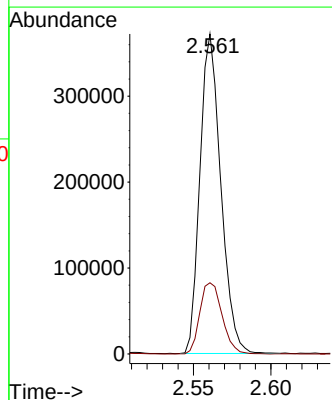
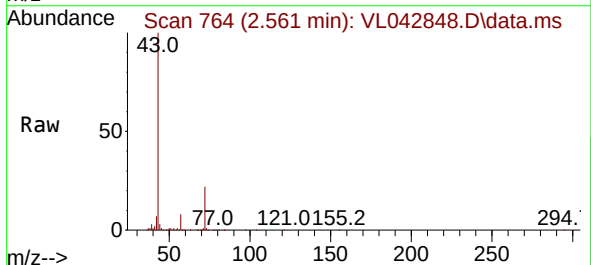
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

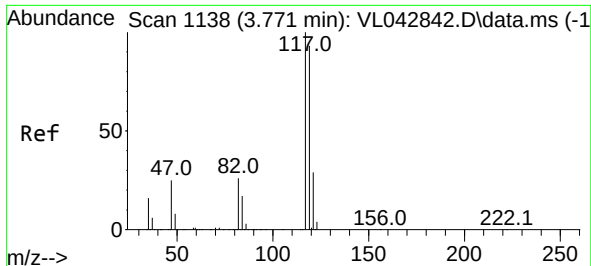
Tgt Ion:114 Resp: 380877
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.7 29.5
 88 18.1 14.4 21.6



#34
 2-Butanone
 Concen: 13.563 ppbv
 RT: 2.561 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 348815
 Ion Ratio Lower Upper
 43 100
 72 23.8 18.6 28.0

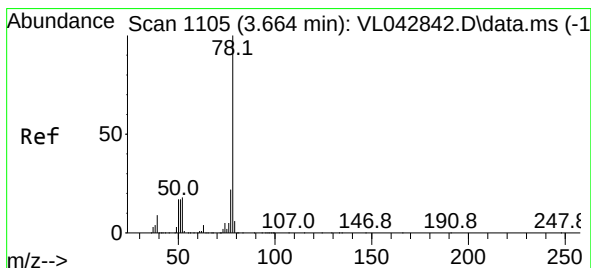
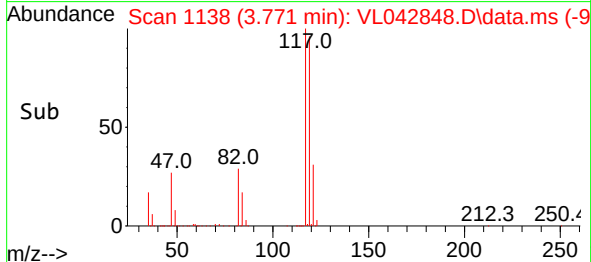
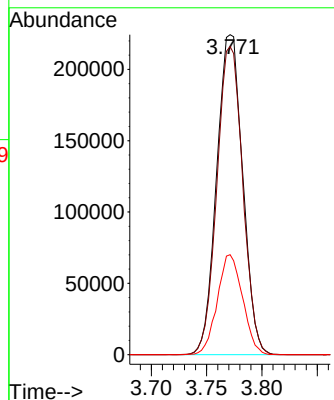
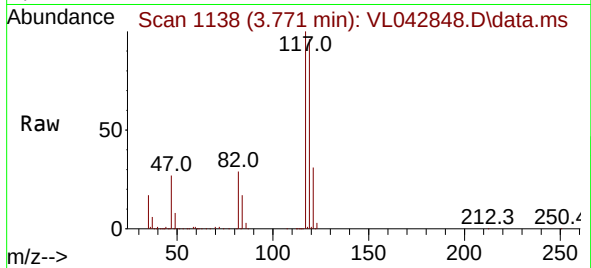




#35
Carbon Tetrachloride
Concen: 13.990 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

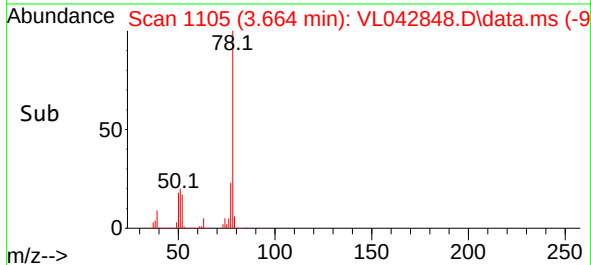
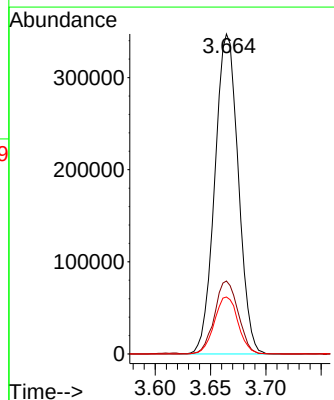
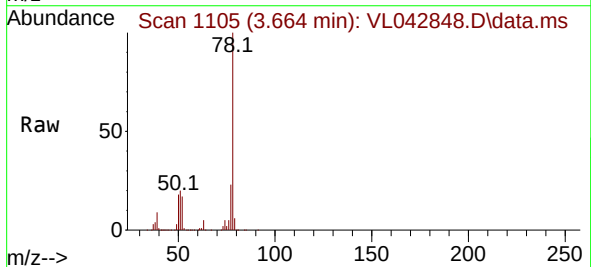
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

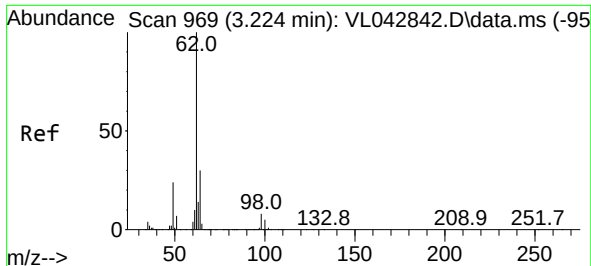
Tgt Ion:117 Resp: 367354
Ion Ratio Lower Upper
117 100
119 96.3 74.7 112.1
121 31.2 23.2 34.8



#36
Benzene
Concen: 14.033 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 78 Resp: 511811
Ion Ratio Lower Upper
78 100
77 22.8 17.7 26.5
50 17.8 13.9 20.9





#37

1,2-Dichloroethane

Concen: 14.639 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

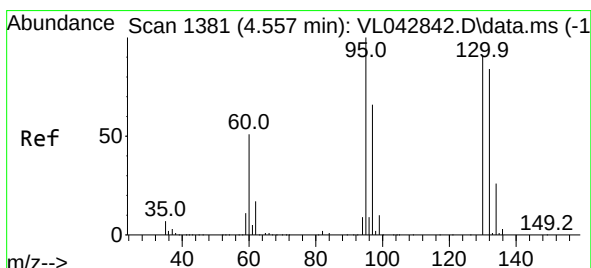
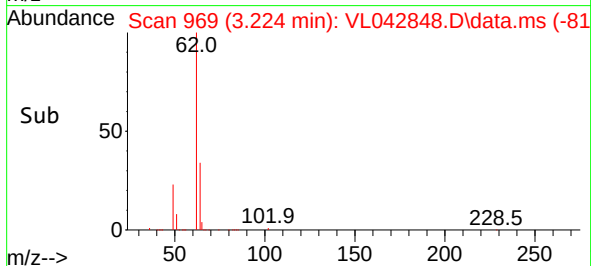
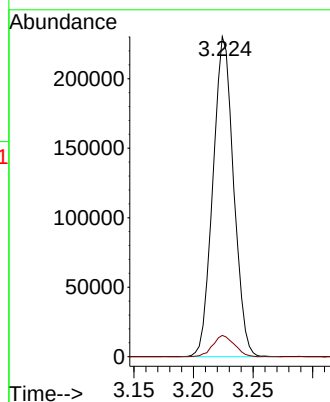
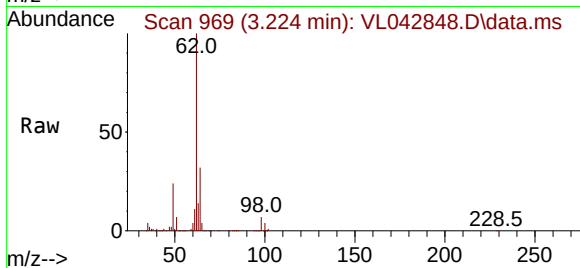
VSTDIC015

Tgt Ion: 62 Resp: 278934

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 13.634 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:130 Resp: 227091

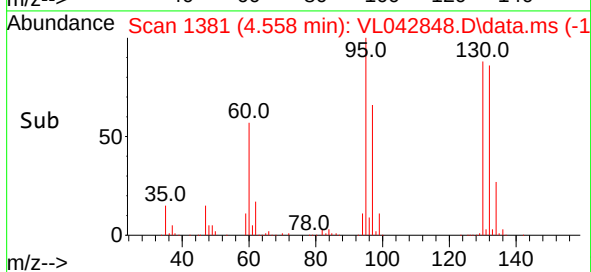
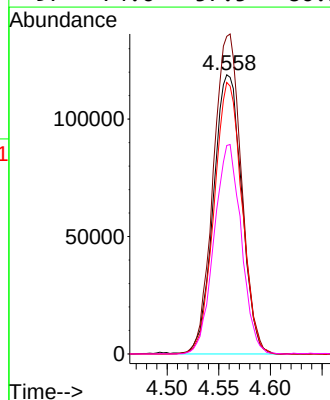
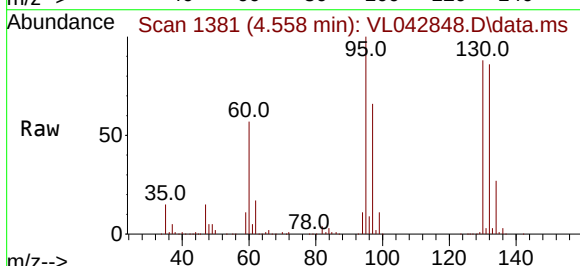
Ion Ratio Lower Upper

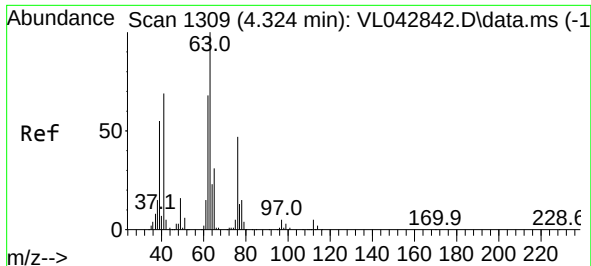
130 100

95 113.8 87.6 131.4

132 97.3 73.8 110.8

97 74.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 13.984 ppbv

RT: 4.325 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

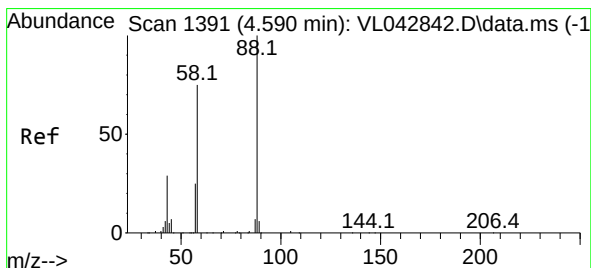
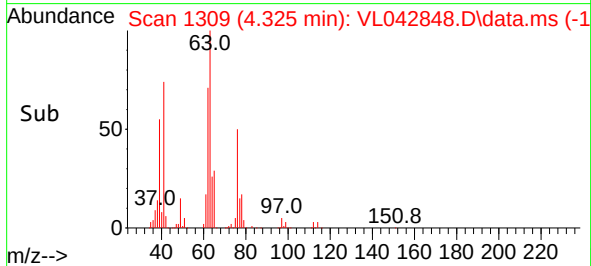
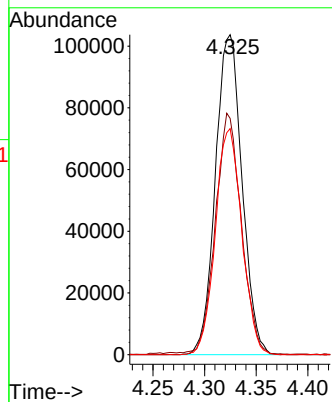
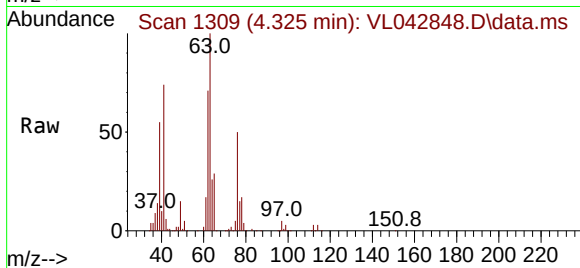
Tgt Ion: 63 Resp: 186277

Ion Ratio Lower Upper

63 100

41 73.5 55.0 82.4

62 70.6 54.4 81.6



#40

1,4-Dioxane

Concen: 13.212 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 88 Resp: 82385

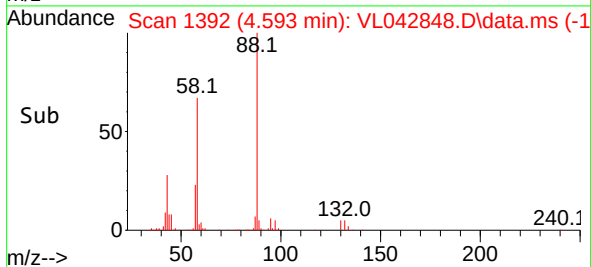
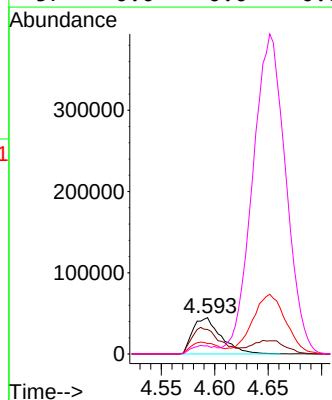
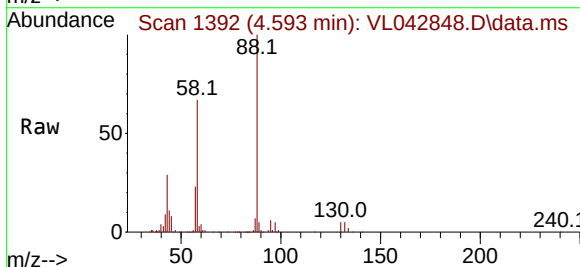
Ion Ratio Lower Upper

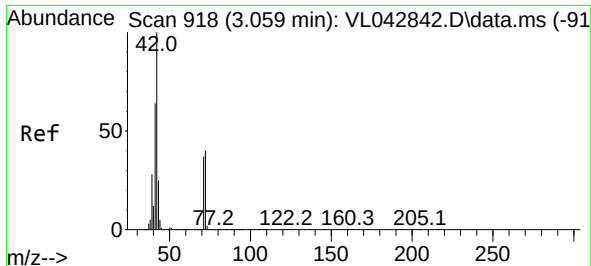
88 100

58 73.5 53.8 80.6

43 33.9 22.8 34.2

57 0.0 0.0 0.0

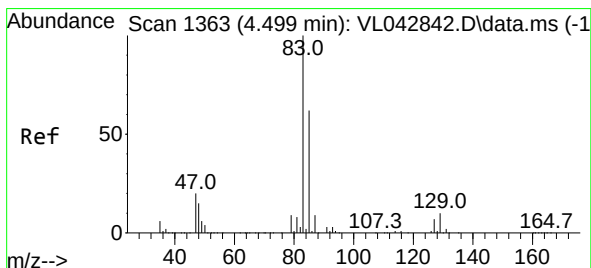
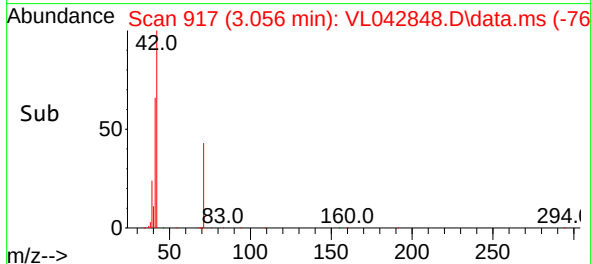
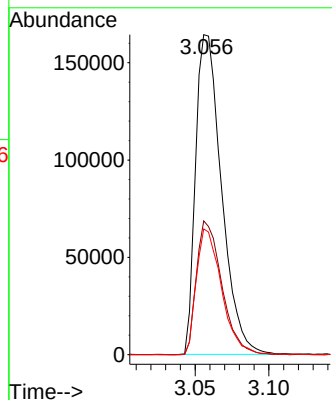
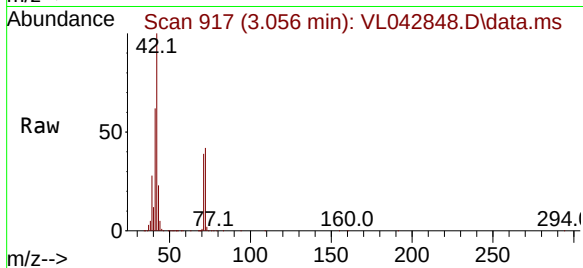




#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 918
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

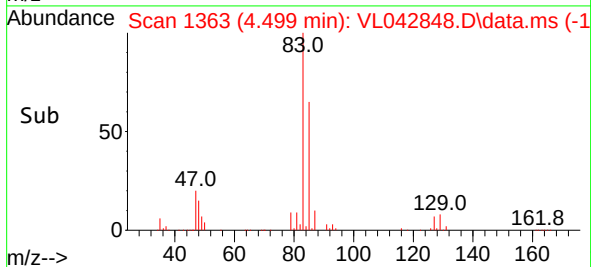
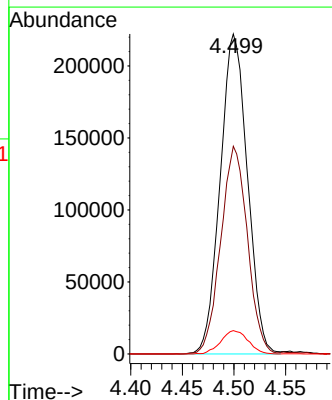
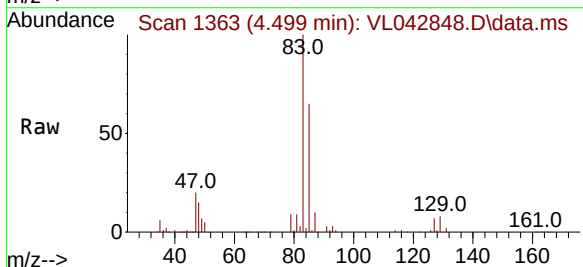
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

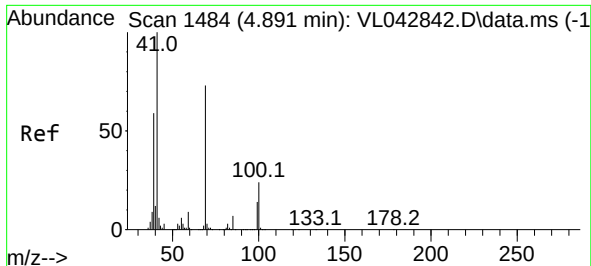
Tgt Ion: 42 Resp: 200751
Ion Ratio Lower Upper
42 100
72 41.0 32.6 48.8
71 38.4 30.0 45.0



#42
Bromodichloromethane
Concen: 14.372 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 408089
Ion Ratio Lower Upper
83 100
85 64.9 49.8 74.8
127 7.3 5.8 8.6

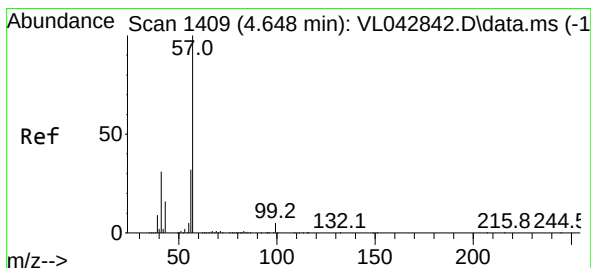
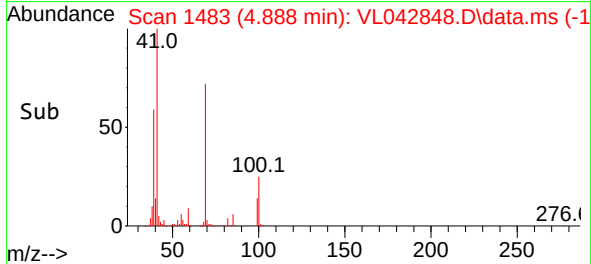
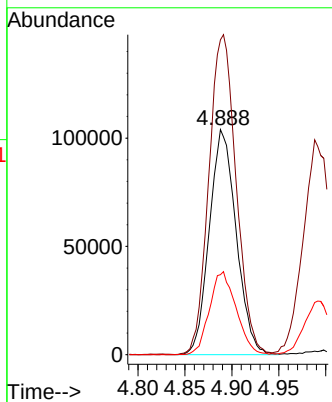
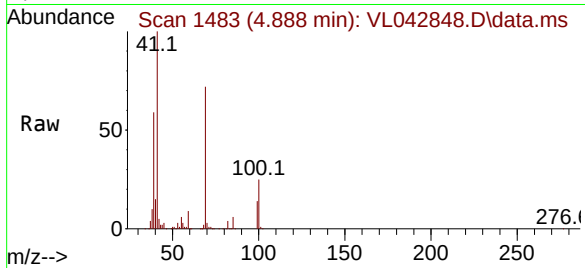




#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 1410
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

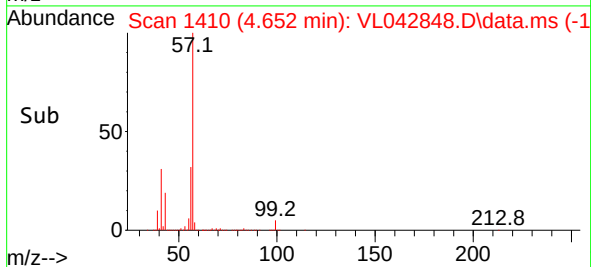
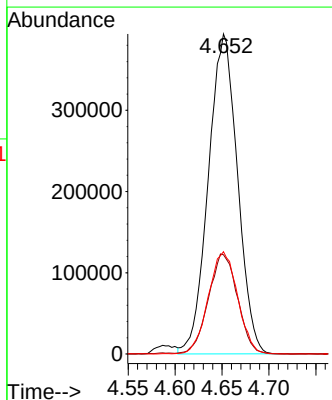
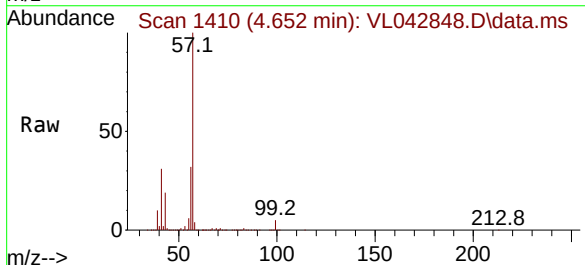
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

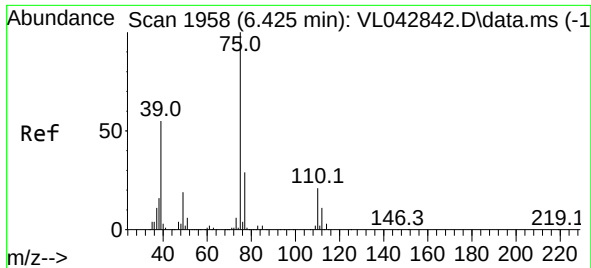
Tgt Ion: 69 Resp: 206590
Ion Ratio Lower Upper
69 100
41 144.8 114.6 172.0
100 36.8 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 13.895 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 57 Resp: 850847
Ion Ratio Lower Upper
57 100
41 31.5 24.8 37.2
56 32.1 25.5 38.3

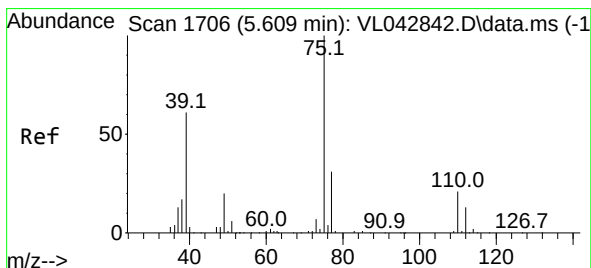
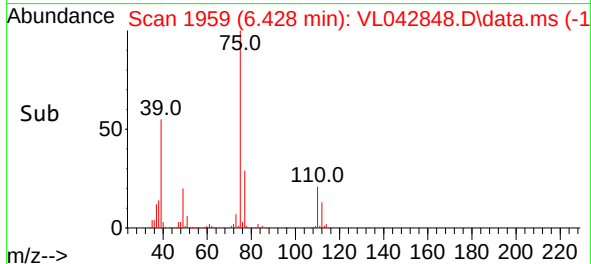
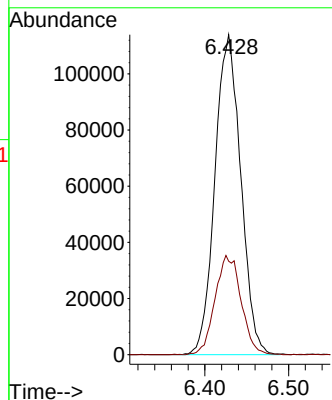
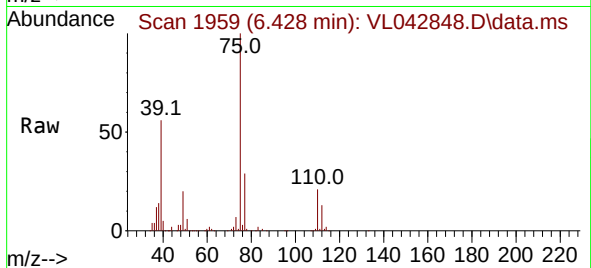




#45
 t-1,3-Dichloropropene
 Concen: 14.387 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

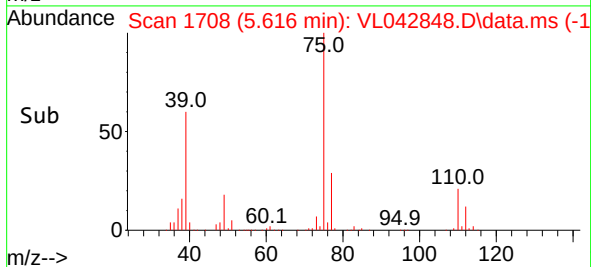
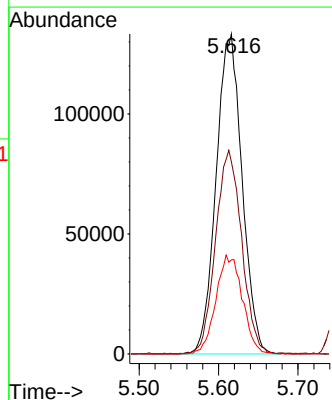
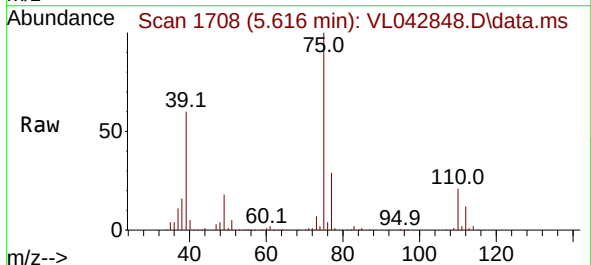
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

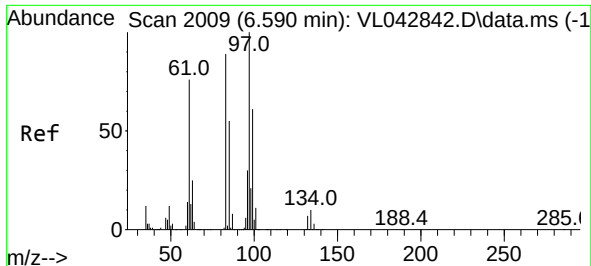
Tgt Ion: 75 Resp: 244117
 Ion Ratio Lower Upper
 75 100
 77 29.2 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 14.191 ppbv
 RT: 5.616 min Scan# 1708
 Delta R.T. 0.007 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 75 Resp: 302339
 Ion Ratio Lower Upper
 75 100
 39 59.9 48.9 73.3
 77 29.4 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 14.118 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 199067

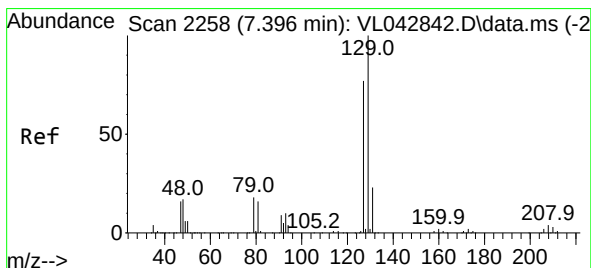
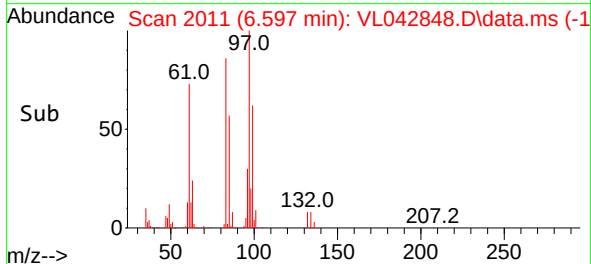
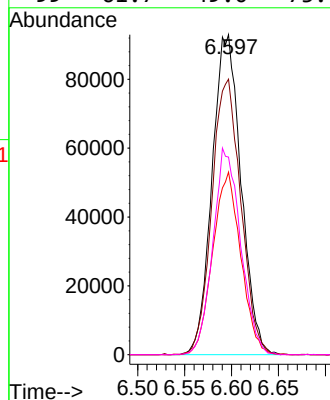
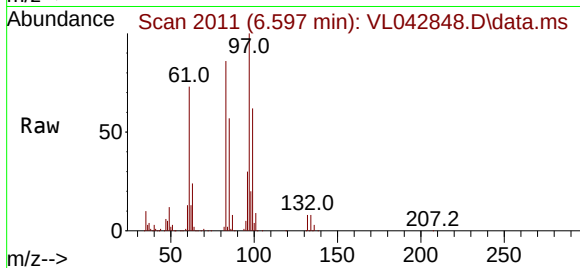
Ion Ratio Lower Upper

97 100

83 86.0 71.0 106.4

85 57.0 43.6 65.4

99 61.7 49.0 73.4



#48

Dibromochloromethane

Concen: 14.535 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042848.D

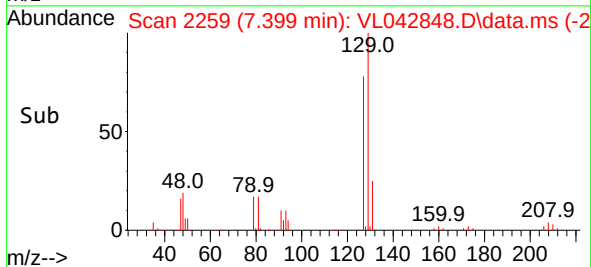
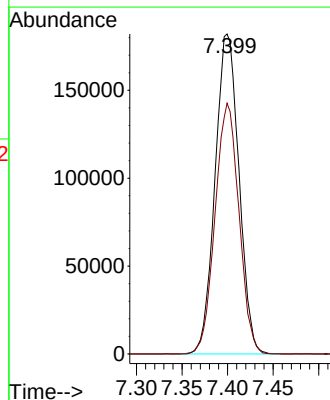
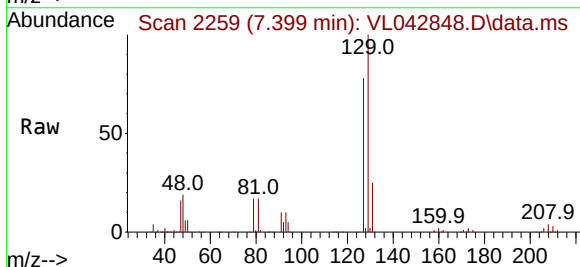
Acq: 13 Aug 2025 12:06

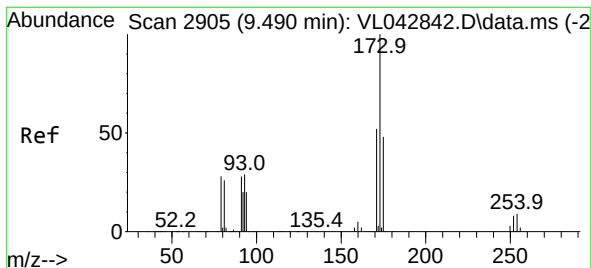
Tgt Ion: 129 Resp: 331947

Ion Ratio Lower Upper

129 100

127 78.4 39.4 118.2





#49

Bromoform

Concen: 14.162 ppbv

RT: 9.494 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

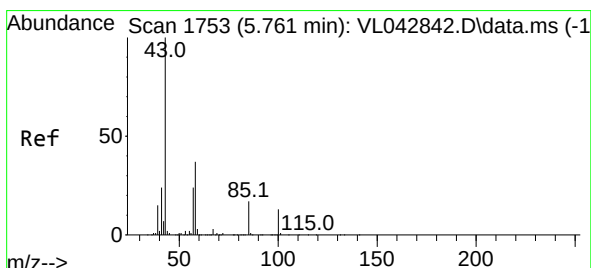
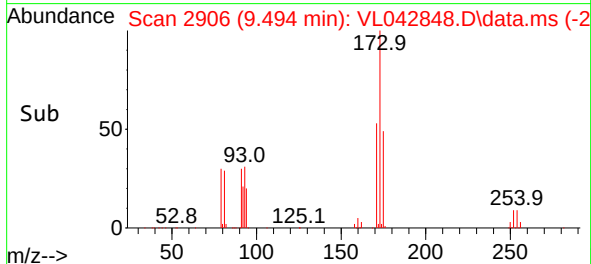
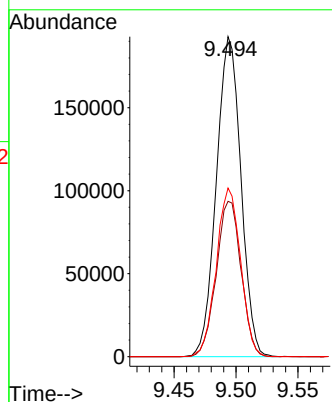
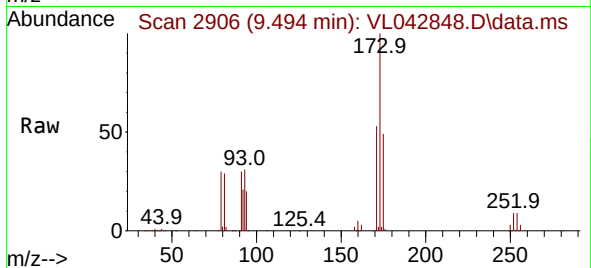
Tgt Ion:173 Resp: 266732

Ion Ratio Lower Upper

173 100

175 49.2 39.2 58.8

171 52.1 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 14.073 ppbv

RT: 5.758 min Scan# 1752

Delta R.T. -0.003 min

Lab File: VL042848.D

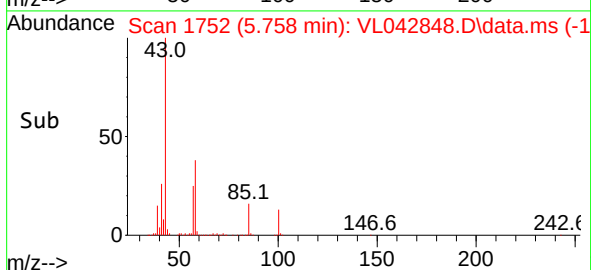
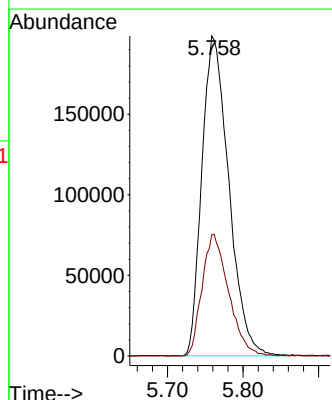
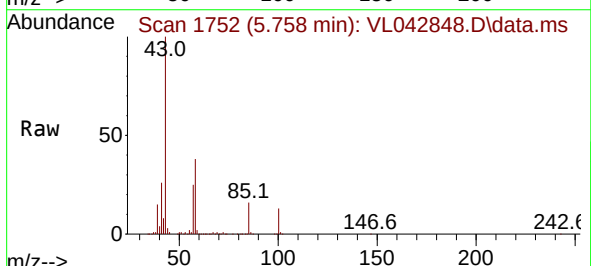
Acq: 13 Aug 2025 12:06

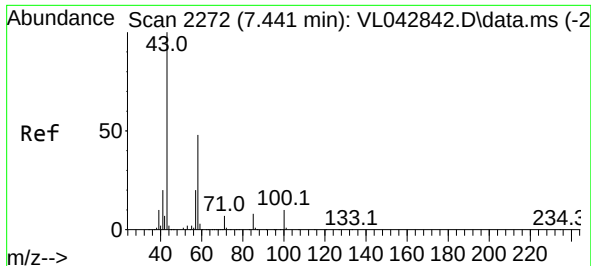
Tgt Ion: 43 Resp: 490917

Ion Ratio Lower Upper

43 100

58 37.5 29.8 44.8

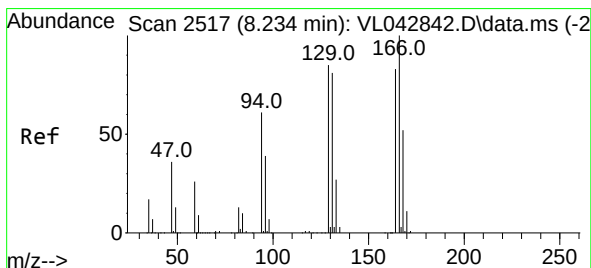
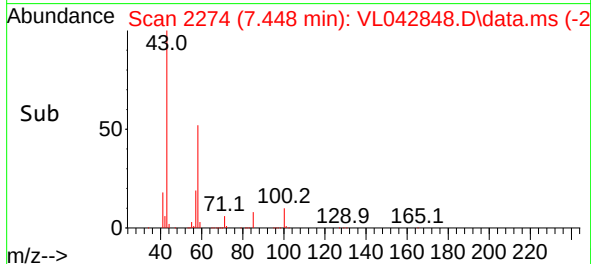
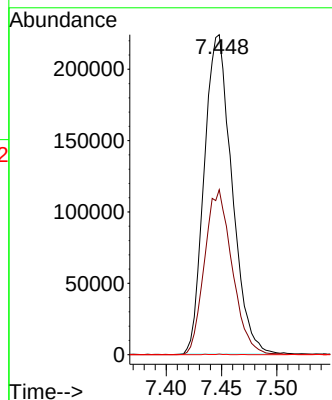
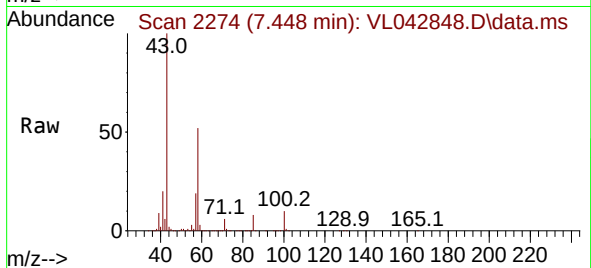




#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

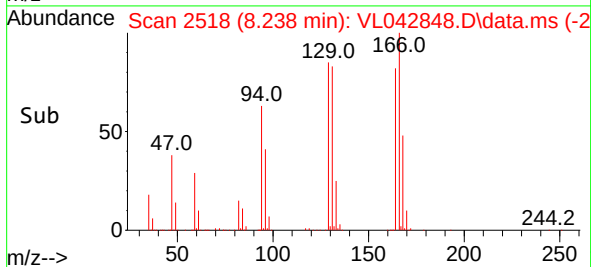
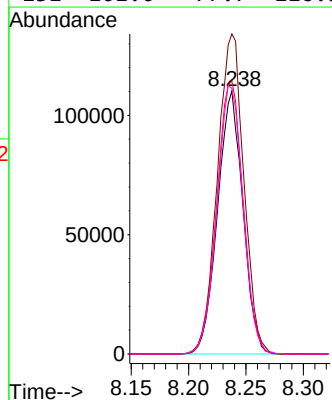
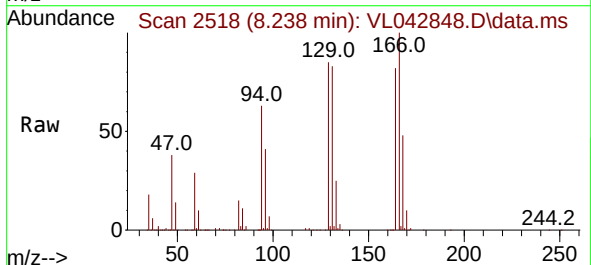
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

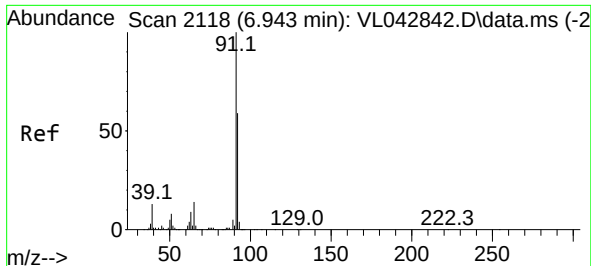
Tgt Ion: 43 Resp: 389940
Ion Ratio Lower Upper
43 100
58 51.6 41.0 61.6
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 12.772 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:164 Resp: 168712
Ion Ratio Lower Upper
164 100
166 121.7 96.5 144.7
129 103.7 81.8 122.6
131 101.0 77.7 116.5

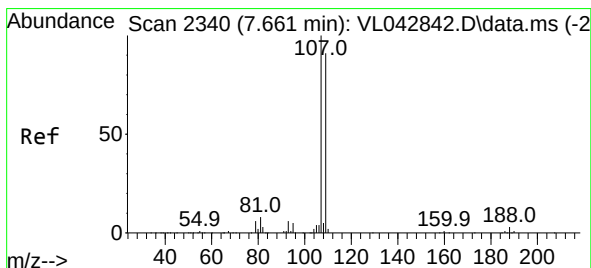
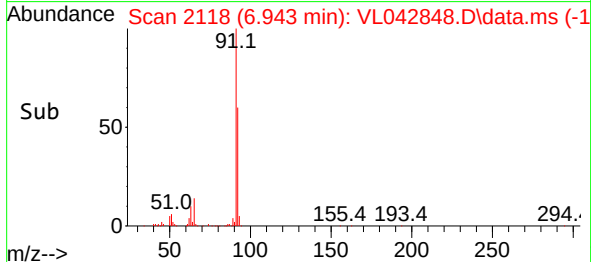
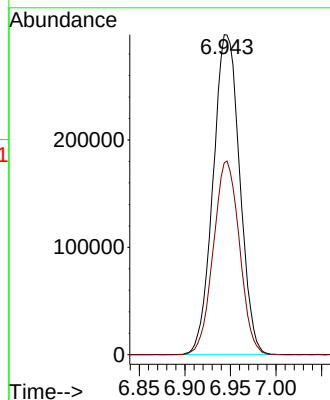
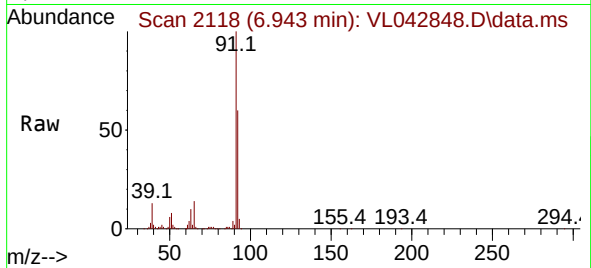




#53
Toluene
Concen: 13.961 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

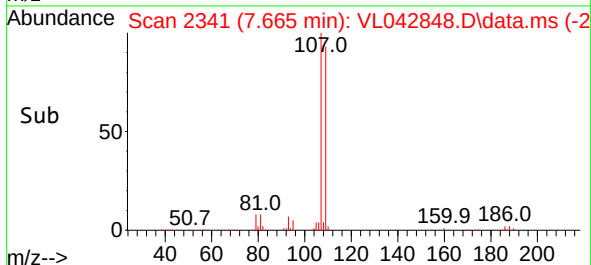
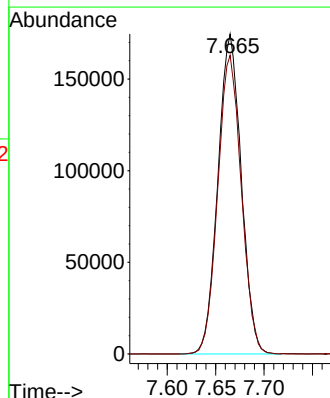
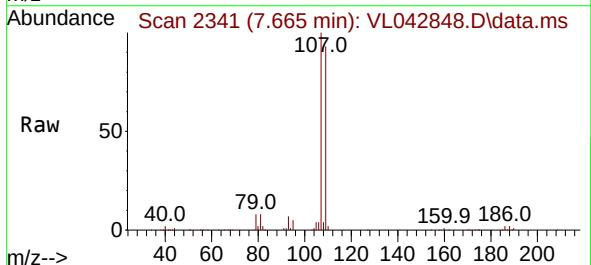
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

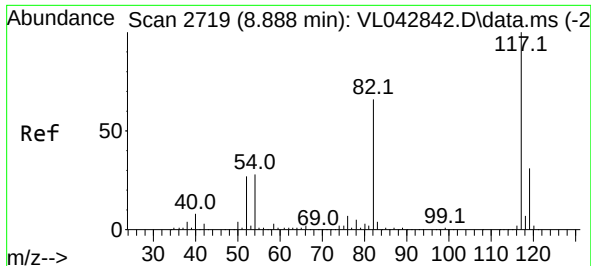
Tgt Ion: 91 Resp: 605941
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6



#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 107 Resp: 292327
Ion Ratio Lower Upper
107 100
109 93.4 72.5 108.7

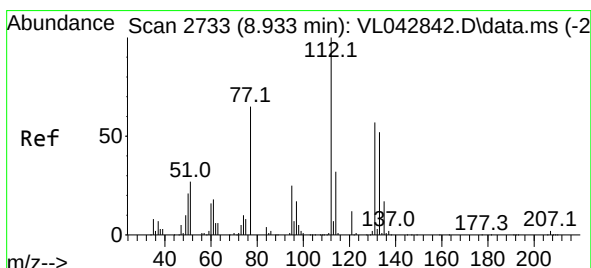
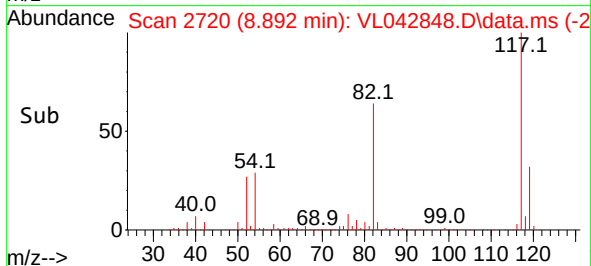
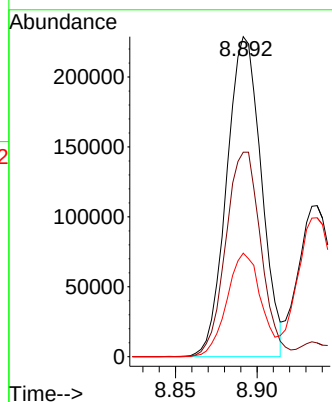
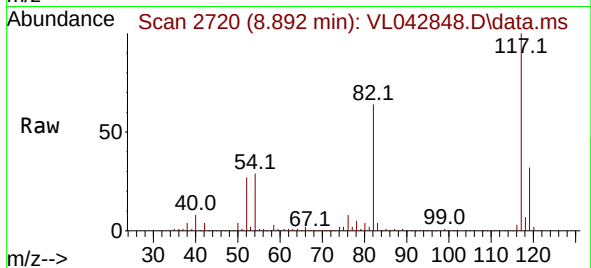




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

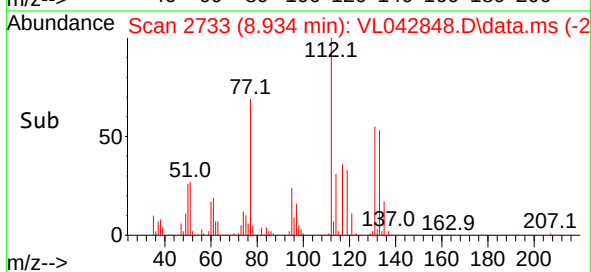
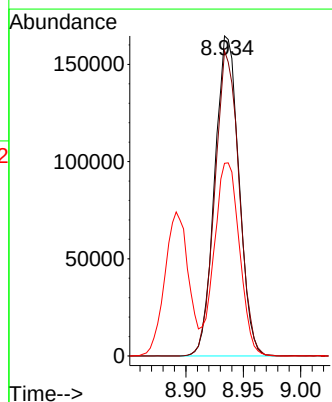
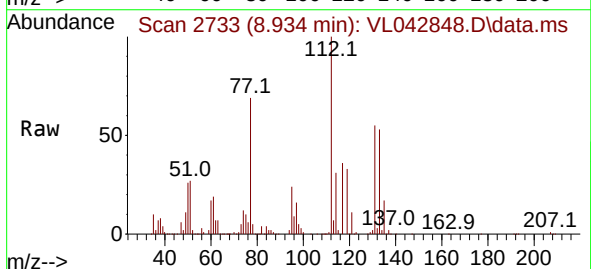
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

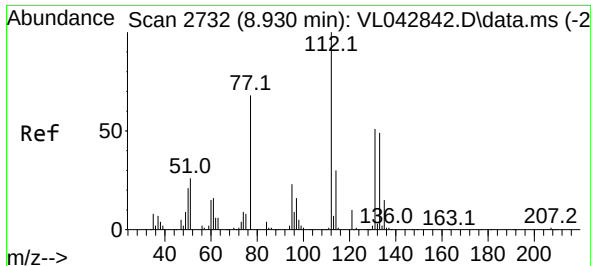
Tgt Ion:117 Resp: 337876
Ion Ratio Lower Upper
117 100
82 65.3 54.6 81.8
119 32.5 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 13.810 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:131 Resp: 241293
Ion Ratio Lower Upper
131 100
133 95.6 77.4 116.0
119 63.4 51.2 76.8

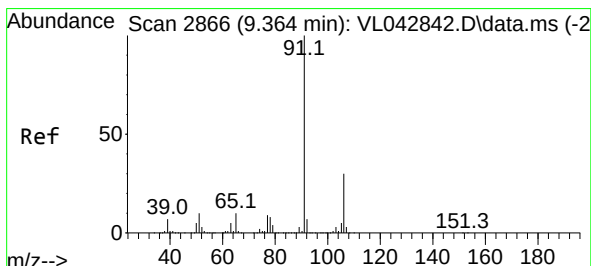
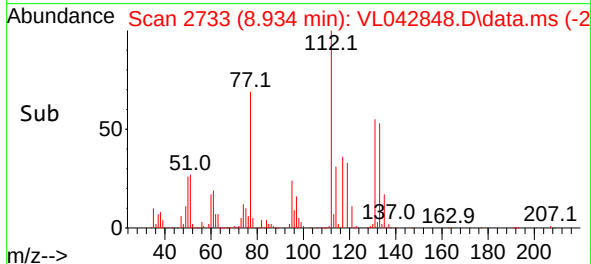
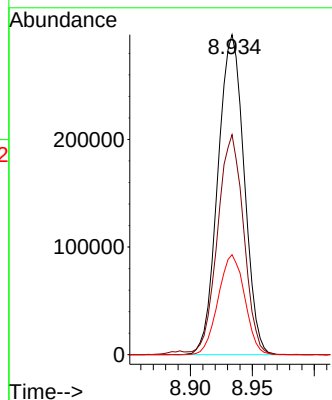
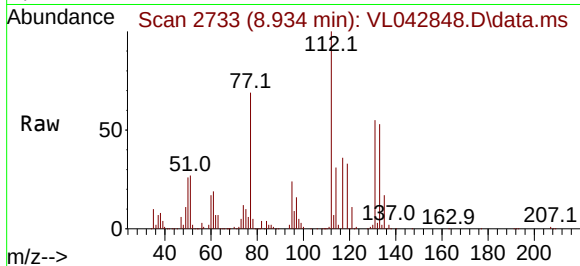




#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

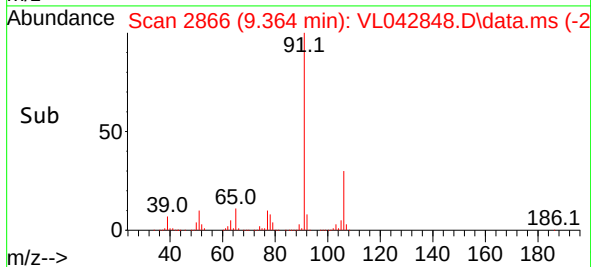
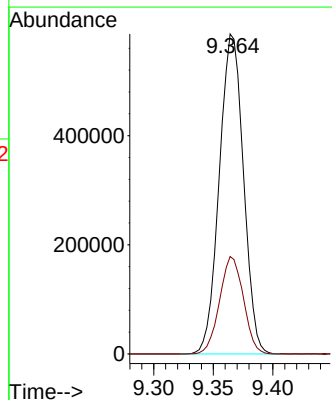
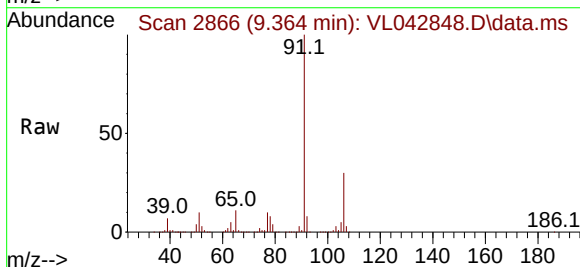
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

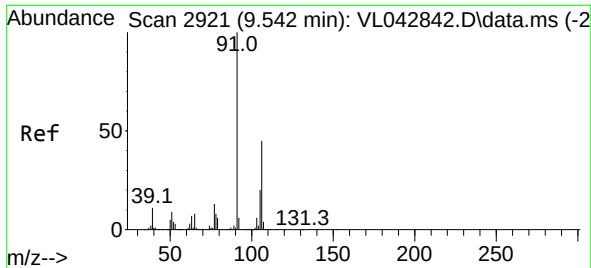
Tgt Ion:112 Resp: 439109
Ion Ratio Lower Upper
112 100
77 68.6 55.5 83.3
114 31.2 27.2 33.2



#58
Ethyl Benzene
Concen: 13.859 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 826316
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9

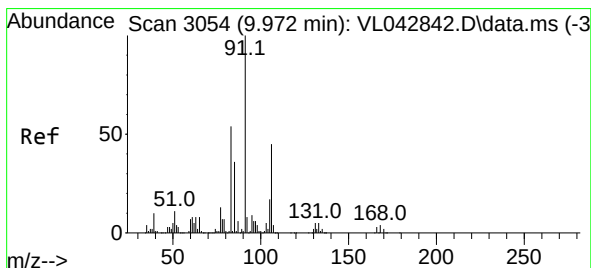
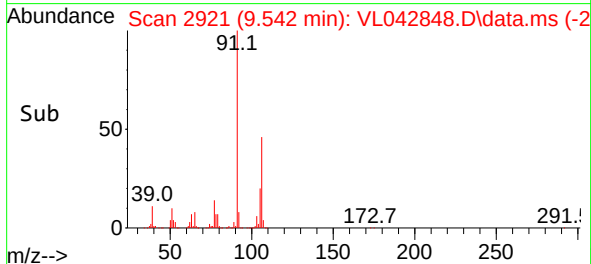
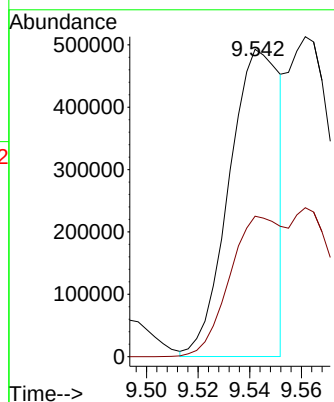
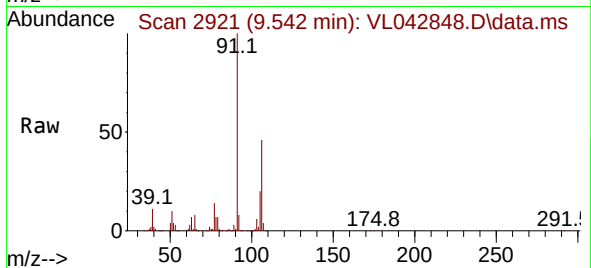




#59
m/p-Xylene
Concen: 14.262 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

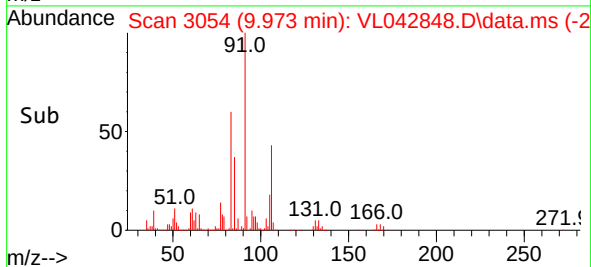
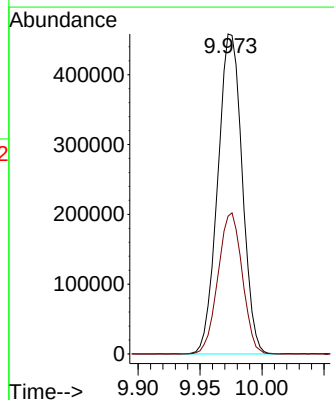
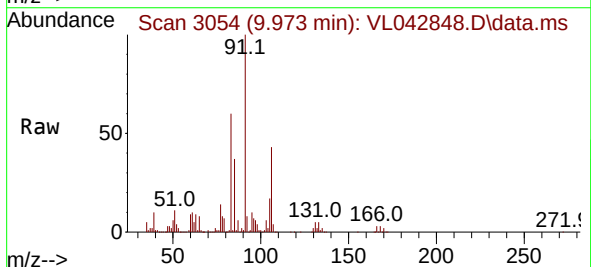
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

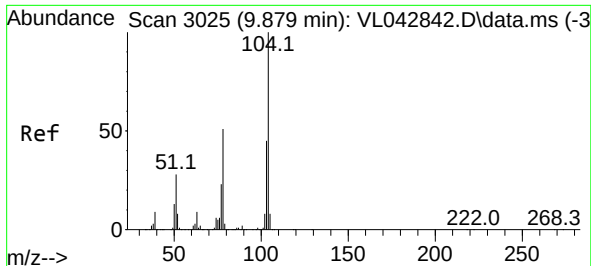
Tgt Ion: 91 Resp: 667628
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 13.389 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 629445
Ion Ratio Lower Upper
91 100
106 43.9 21.8 65.4

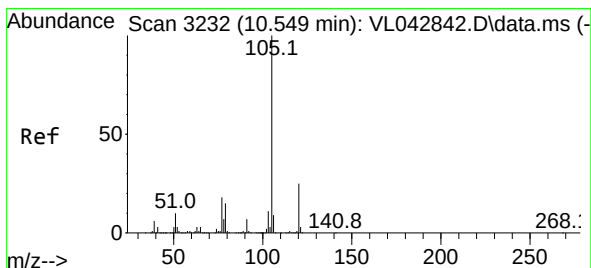
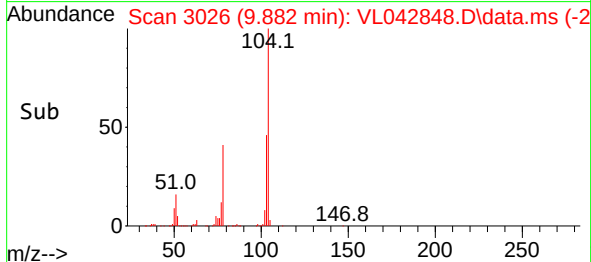
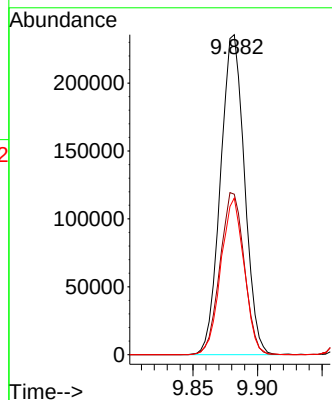
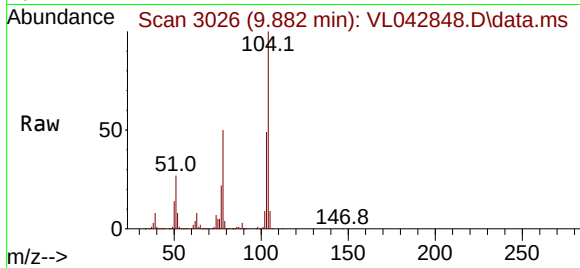




#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

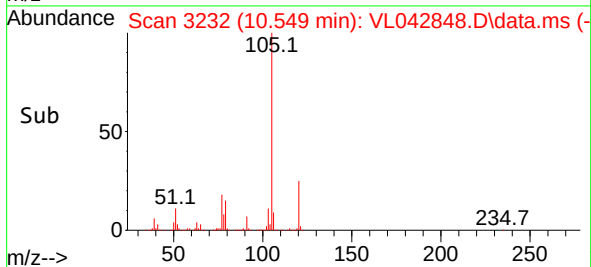
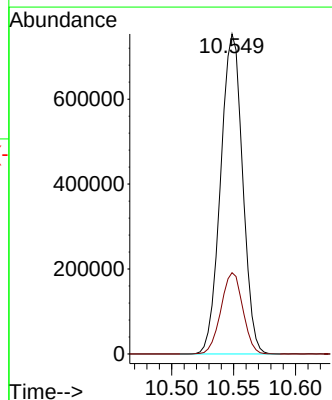
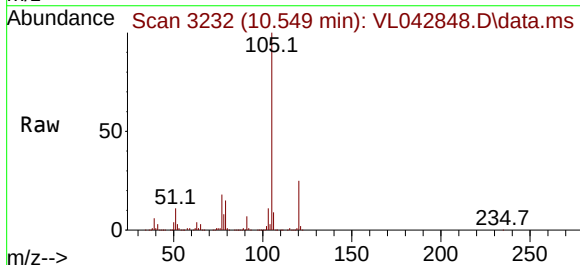
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

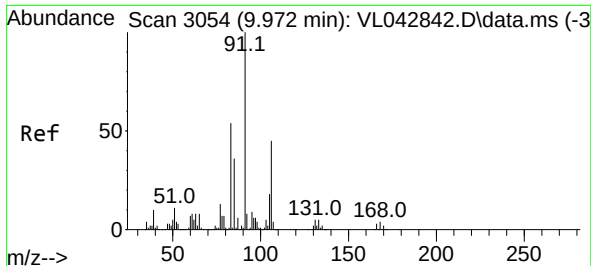
Tgt Ion:104 Resp: 304560
Ion Ratio Lower Upper
104 100
78 51.1 40.6 61.0
103 47.6 37.7 56.5



#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 931574
Ion Ratio Lower Upper
105 100
120 25.2 20.6 30.8

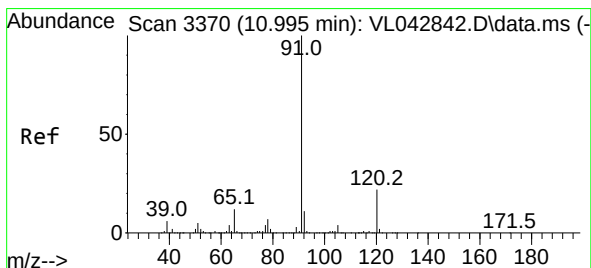
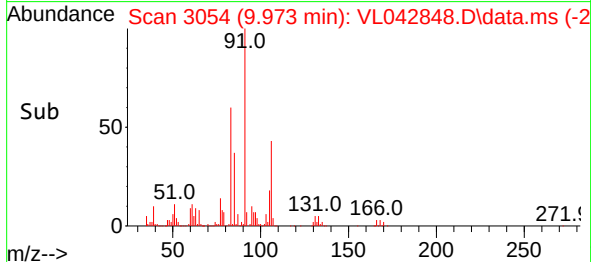
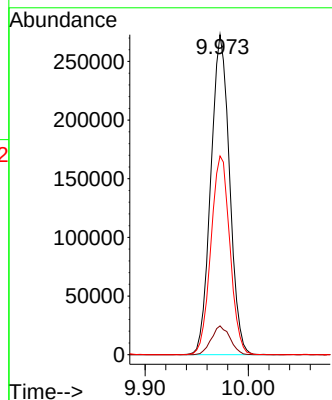
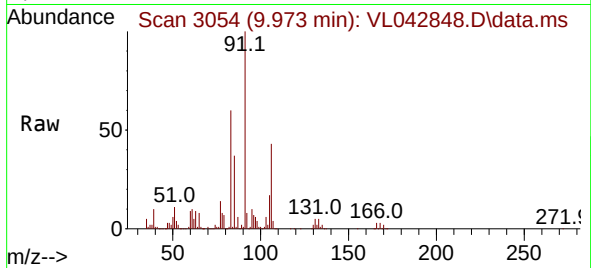




#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.356 ppbv
 RT: 9.973 min Scan# 3054
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

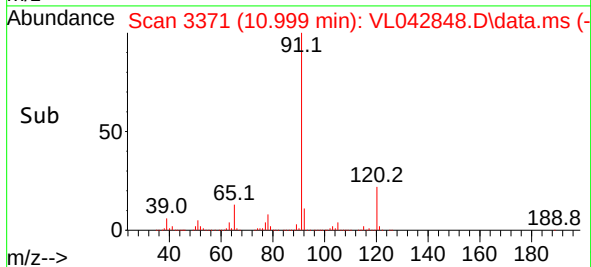
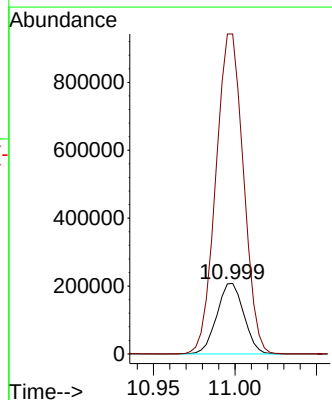
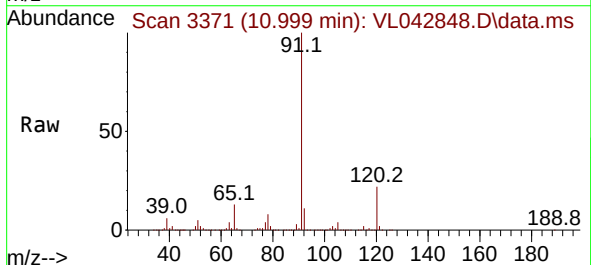
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

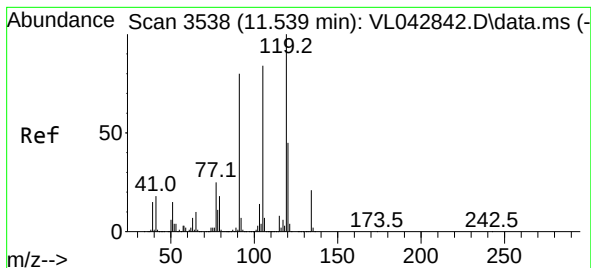
Tgt Ion: 83 Resp: 342890
 Ion Ratio Lower Upper
 83 100
 131 9.0 4.8 14.3
 85 63.0 32.3 96.8



#64
 n-propylbenzene
 Concen: 13.646 ppbv
 RT: 10.999 min Scan# 3371
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 120 Resp: 239209
 Ion Ratio Lower Upper
 120 100
 91 465.1 375.8 563.6





#65

tert-Butylbenzene

Concen: 12.965 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

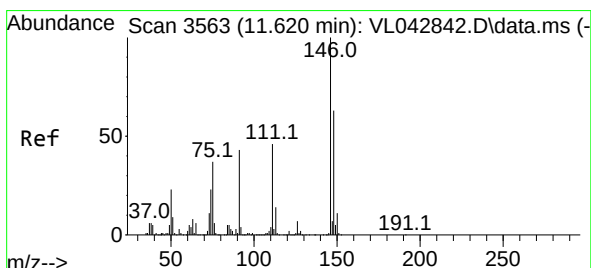
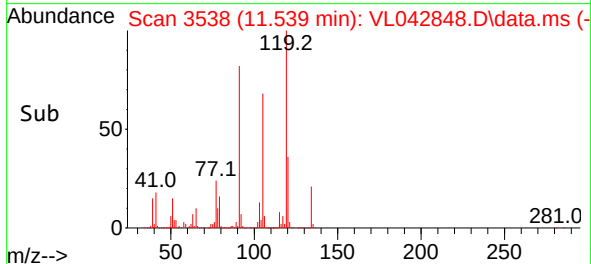
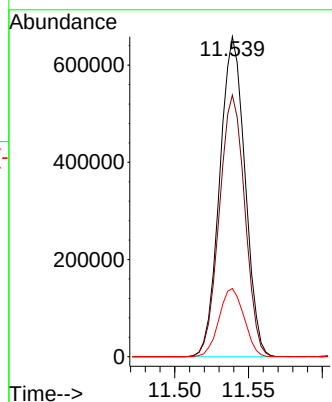
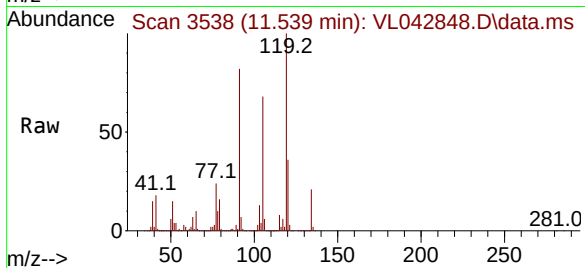
Tgt Ion:119 Resp: 785250

Ion Ratio Lower Upper

119 100

91 82.4 63.9 95.9

134 21.1 17.0 25.4



#66

Benzyl Chloride

Concen: 13.617 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

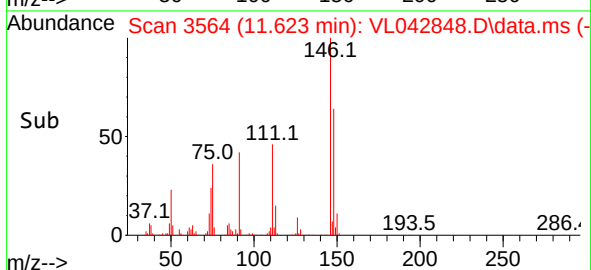
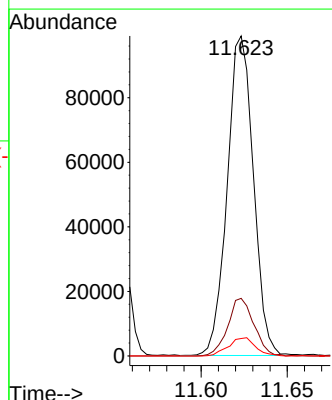
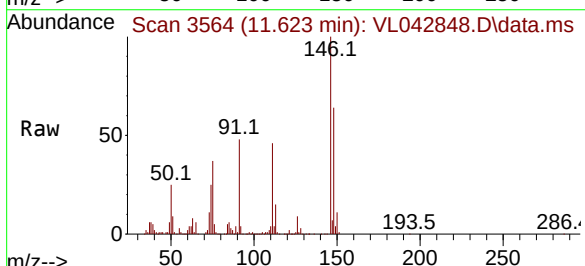
Tgt Ion: 91 Resp: 104698

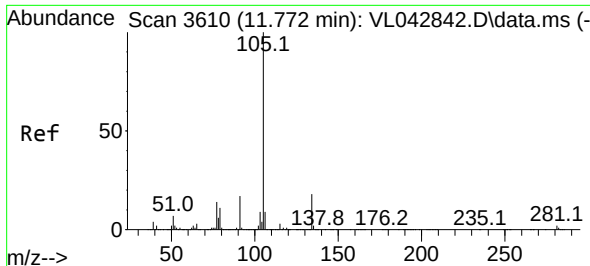
Ion Ratio Lower Upper

91 100

126 18.1 14.2 21.4

128 5.9 5.0 7.6

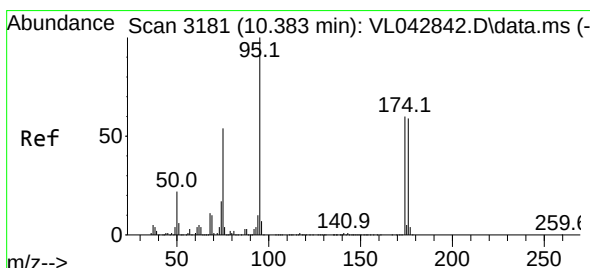
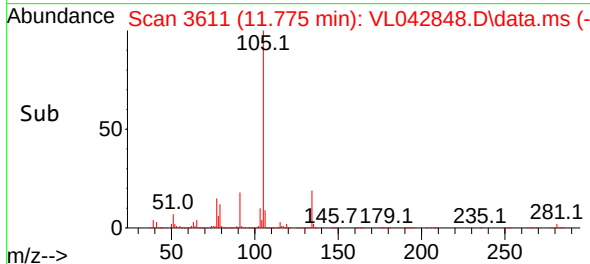
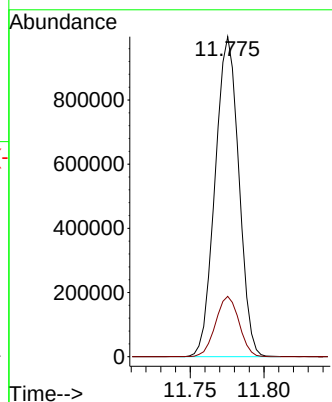
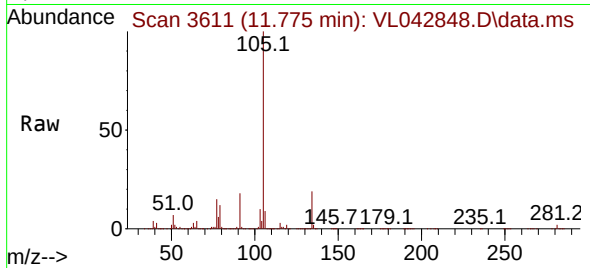




#67
 sec-Butylbenzene
 Concen: 13.127 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

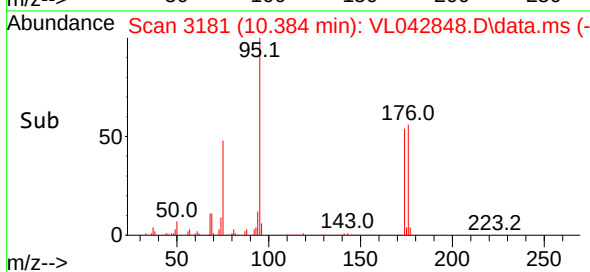
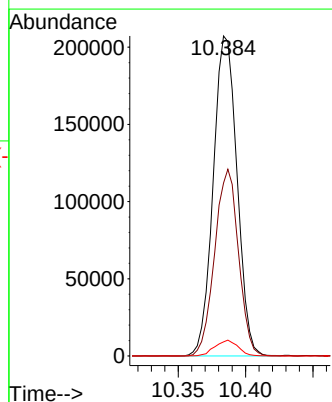
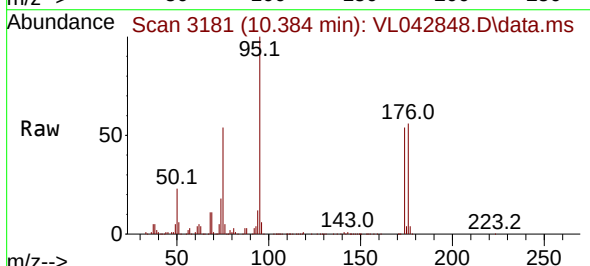
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

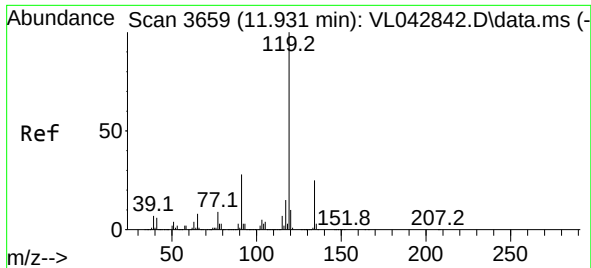
Tgt Ion:105 Resp: 1115979
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.050 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 95 Resp: 254655
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.8 3.8 5.8

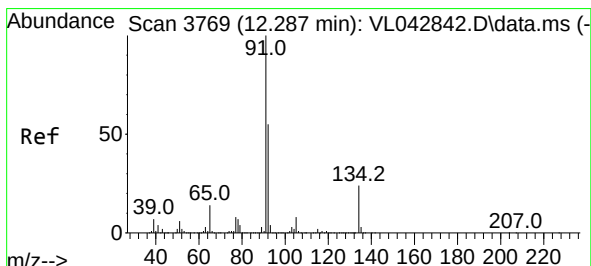
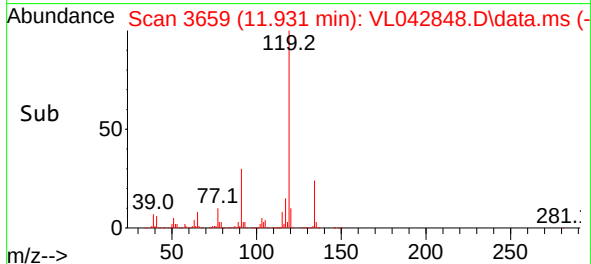
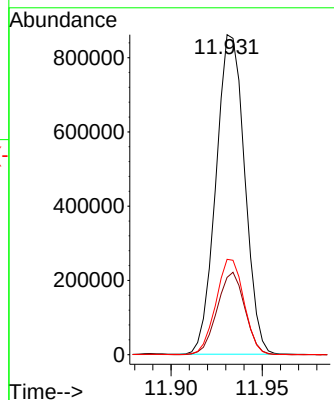
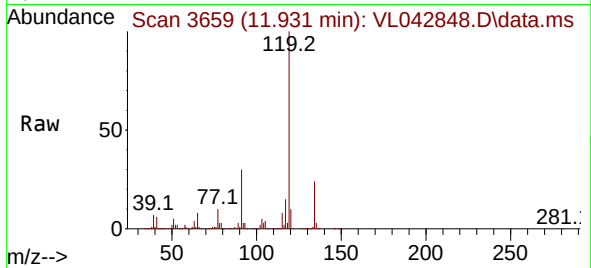




#69
 p-Isopropyltoluene
 Concen: 12.891 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

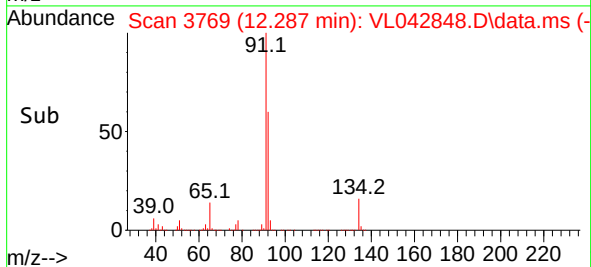
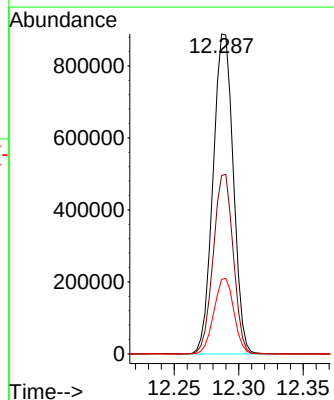
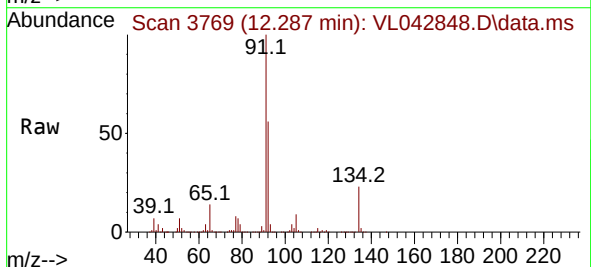
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

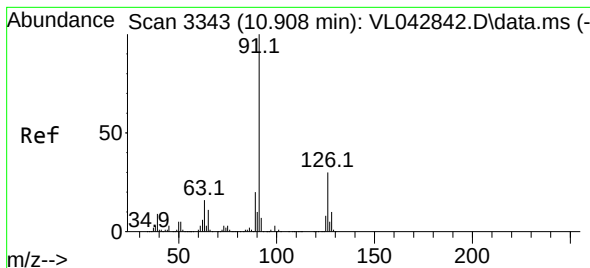
Tgt Ion:119 Resp: 940888
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.6 30.8
 91 29.4 22.6 34.0



#70
 n-Butylbenzene
 Concen: 13.410 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 970700
 Ion Ratio Lower Upper
 91 100
 92 55.5 44.6 66.8
 134 23.3 19.0 28.4

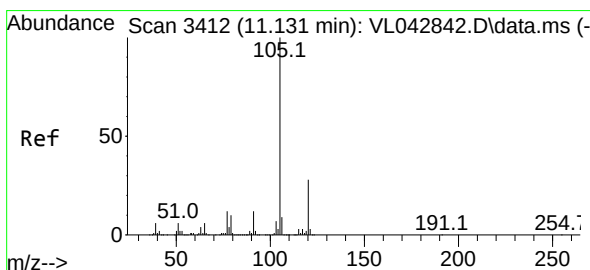
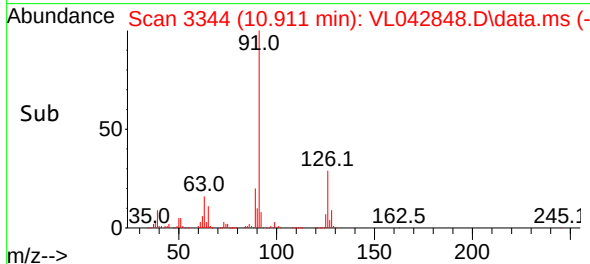
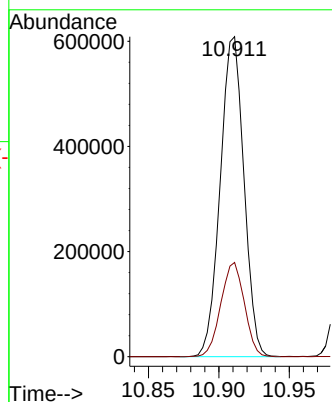
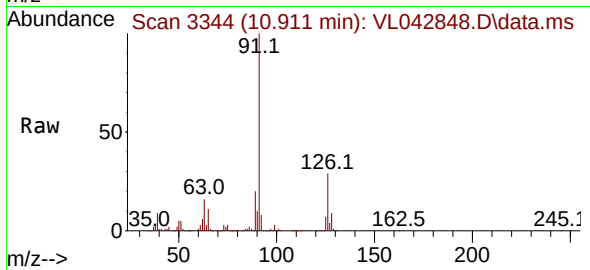




#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

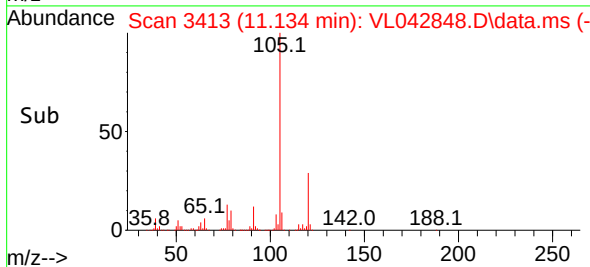
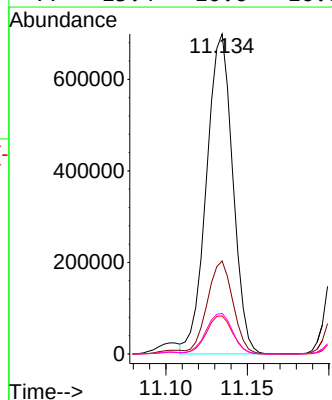
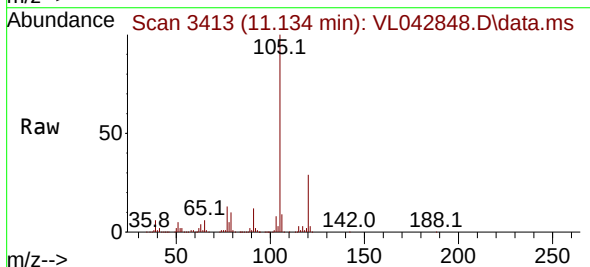
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

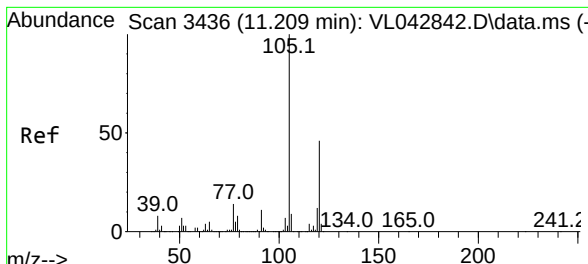
Tgt Ion: 91 Resp: 713696
Ion Ratio Lower Upper
91 100
126 29.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 13.722 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 105 Resp: 782057
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.2
91 12.5 9.8 14.6
77 13.4 10.6 16.0

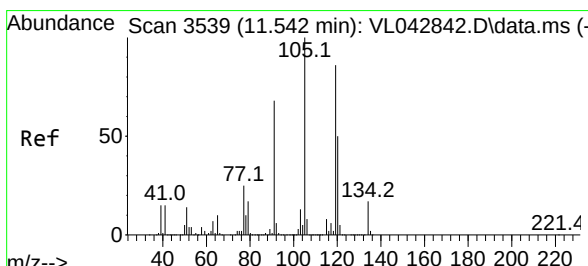
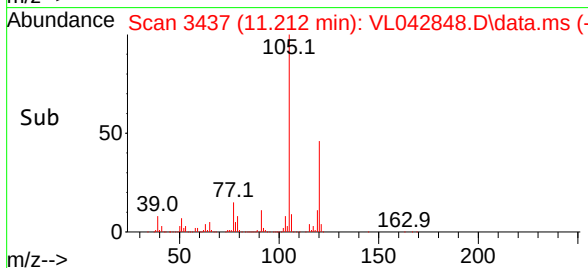
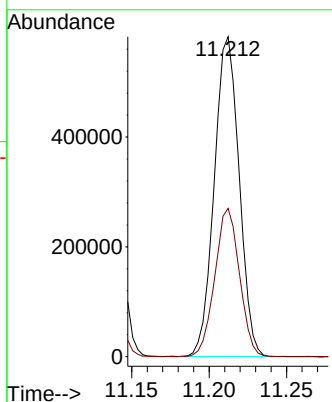
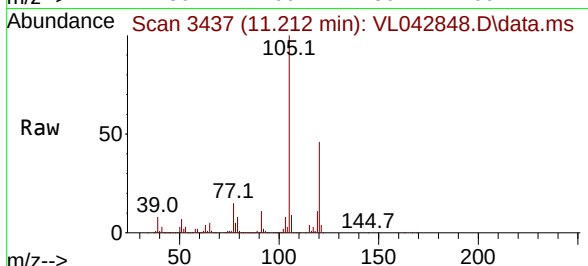




#73
 1,3,5-Trimethylbenzene
 Concen: 13.418 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

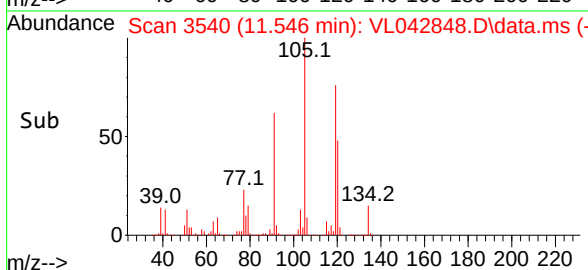
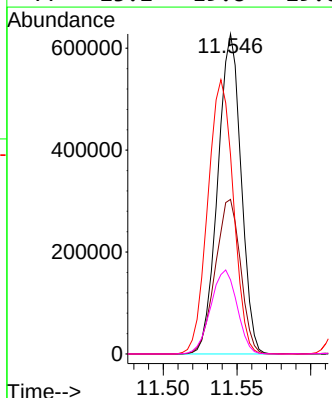
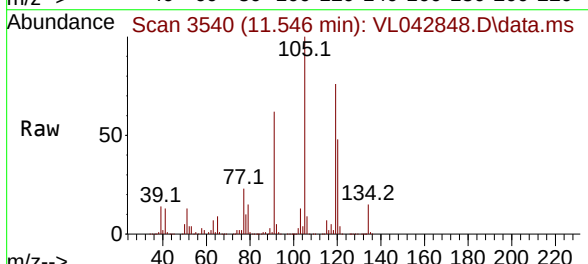
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

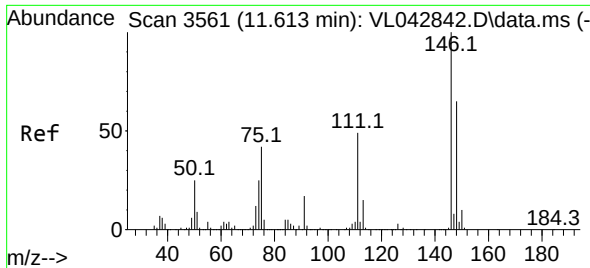
Tgt Ion:105 Resp: 650280
 Ion Ratio Lower Upper
 105 100
 120 46.4 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 13.003 ppbv
 RT: 11.546 min Scan# 3540
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 691709
 Ion Ratio Lower Upper
 105 100
 120 48.3 39.8 59.6
 91 62.2 54.2 81.4
 77 23.2 19.8 29.6

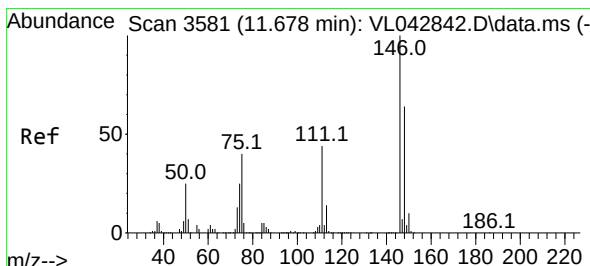
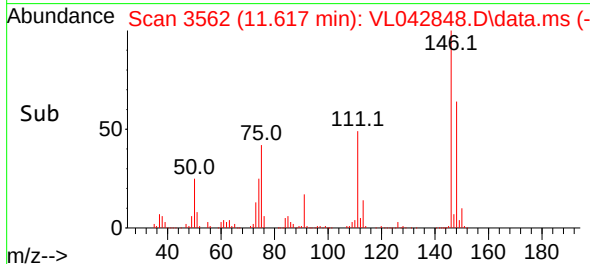
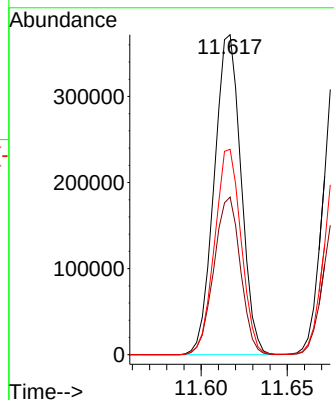
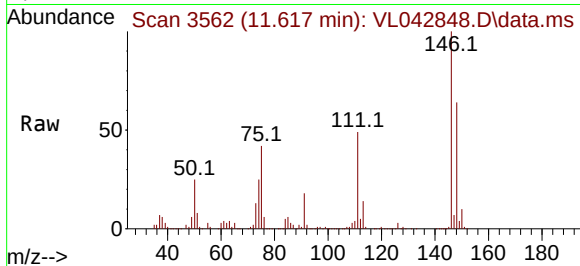




#75
1,3-Dichlorobenzene
Concen: 13.321 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

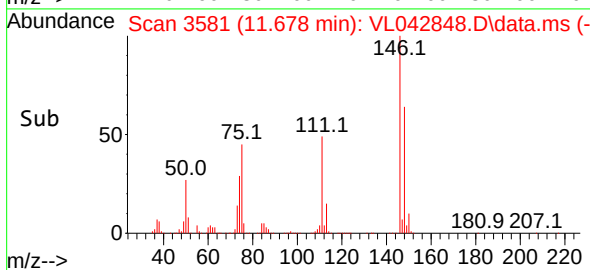
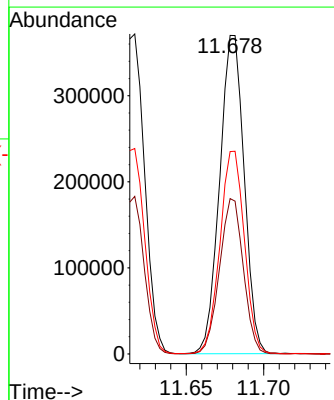
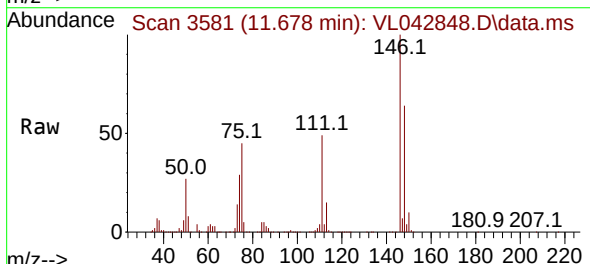
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

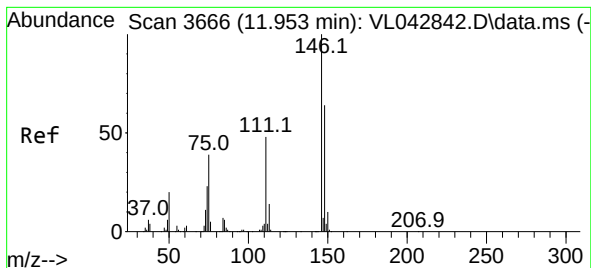
Tgt Ion:146 Resp: 402850
Ion Ratio Lower Upper
146 100
111 48.9 23.9 71.7
148 63.5 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 13.314 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:146 Resp: 407214
Ion Ratio Lower Upper
146 100
111 47.5 22.7 68.1
148 63.8 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 13.031 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

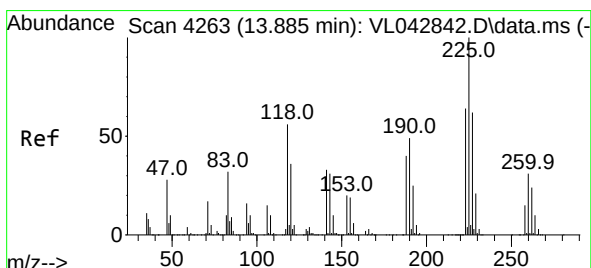
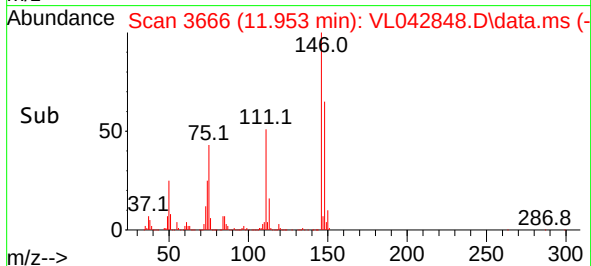
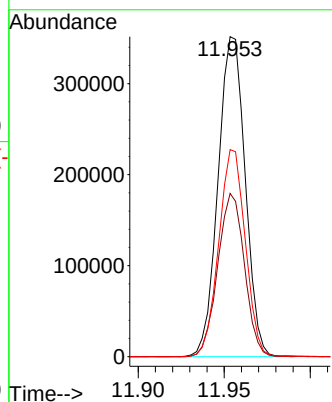
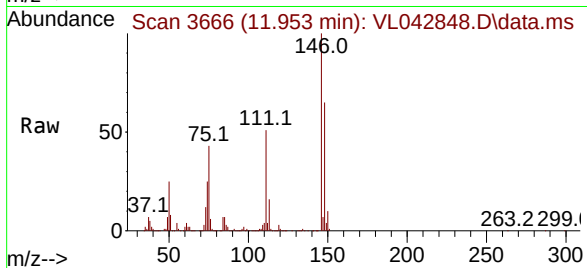
Tgt Ion:146 Resp: 385866

Ion Ratio Lower Upper

146 100

111 50.2 24.6 74.0

148 63.3 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 11.602 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

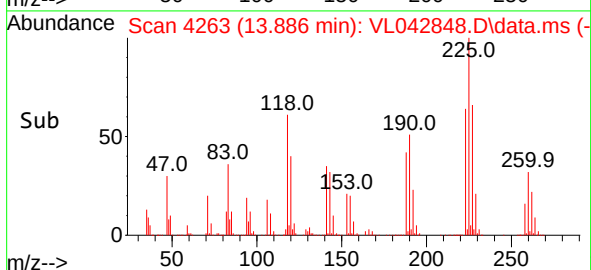
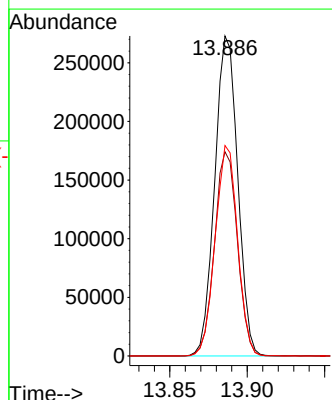
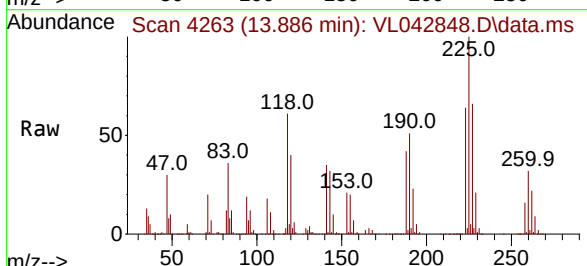
Tgt Ion:225 Resp: 281581

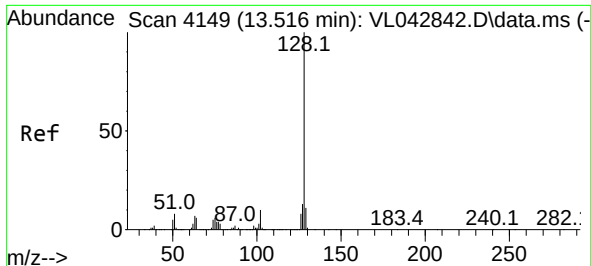
Ion Ratio Lower Upper

225 100

223 63.6 51.4 77.2

227 64.2 51.9 77.9

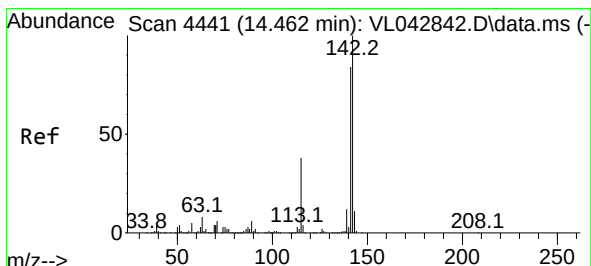
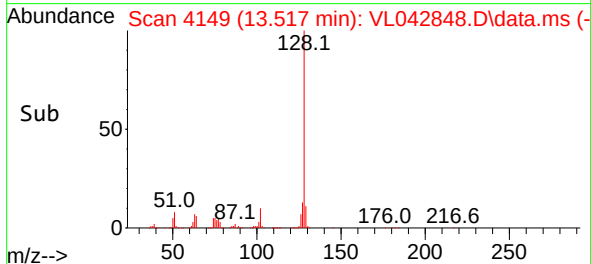
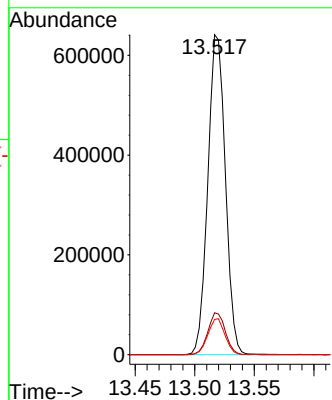
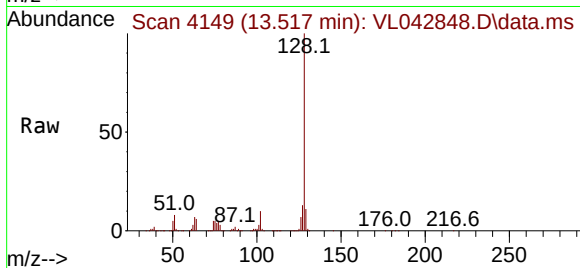




#79
Naphthalene
Concen: 13.837 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

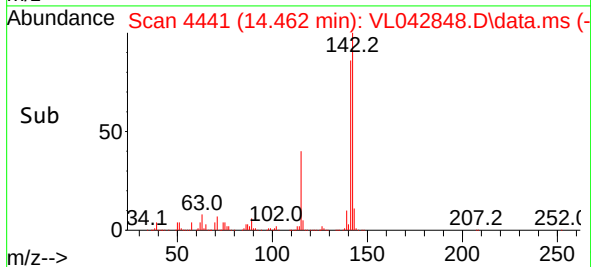
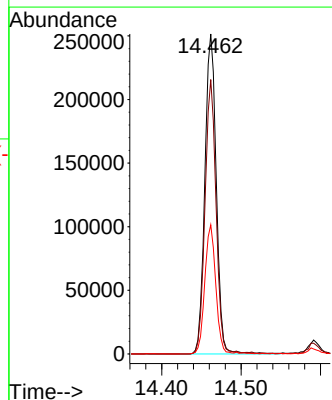
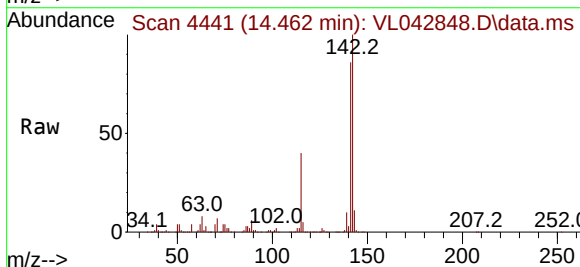
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

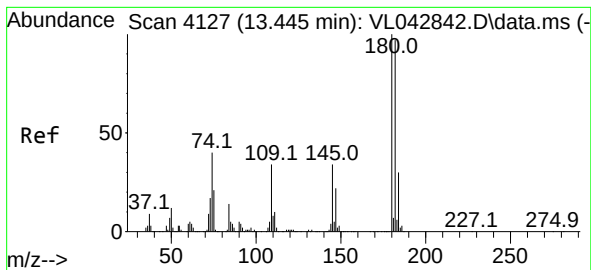
Tgt Ion:128 Resp: 658732
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 11.0 8.9 13.3



#80
Naphthalene,2-methyl-
Concen: 14.042 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

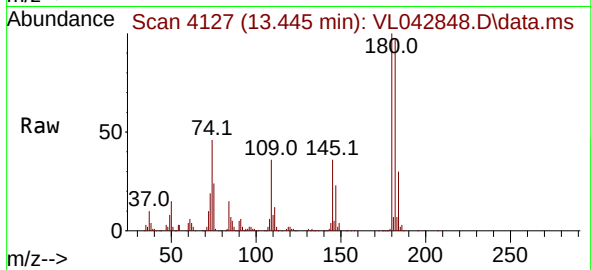
Tgt Ion:142 Resp: 251753
Ion Ratio Lower Upper
142 100
141 83.9 67.0 100.6
115 39.3 30.9 46.3



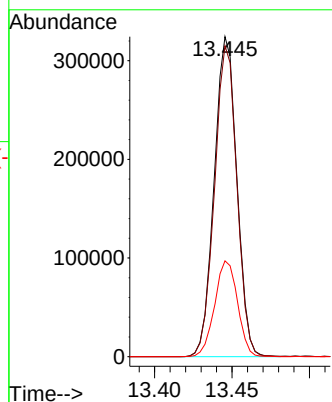
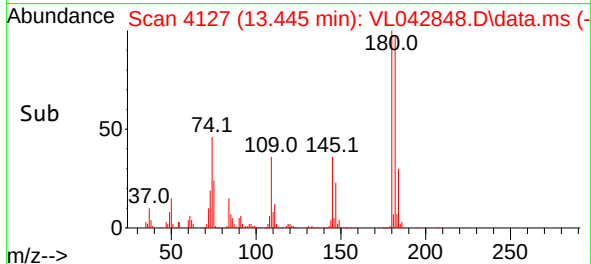


#81
 1,2,4-Trichlorobenzene
 Concen: 13.599 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 329641
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.9 115.3
 184 30.3 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	252268	10.086	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

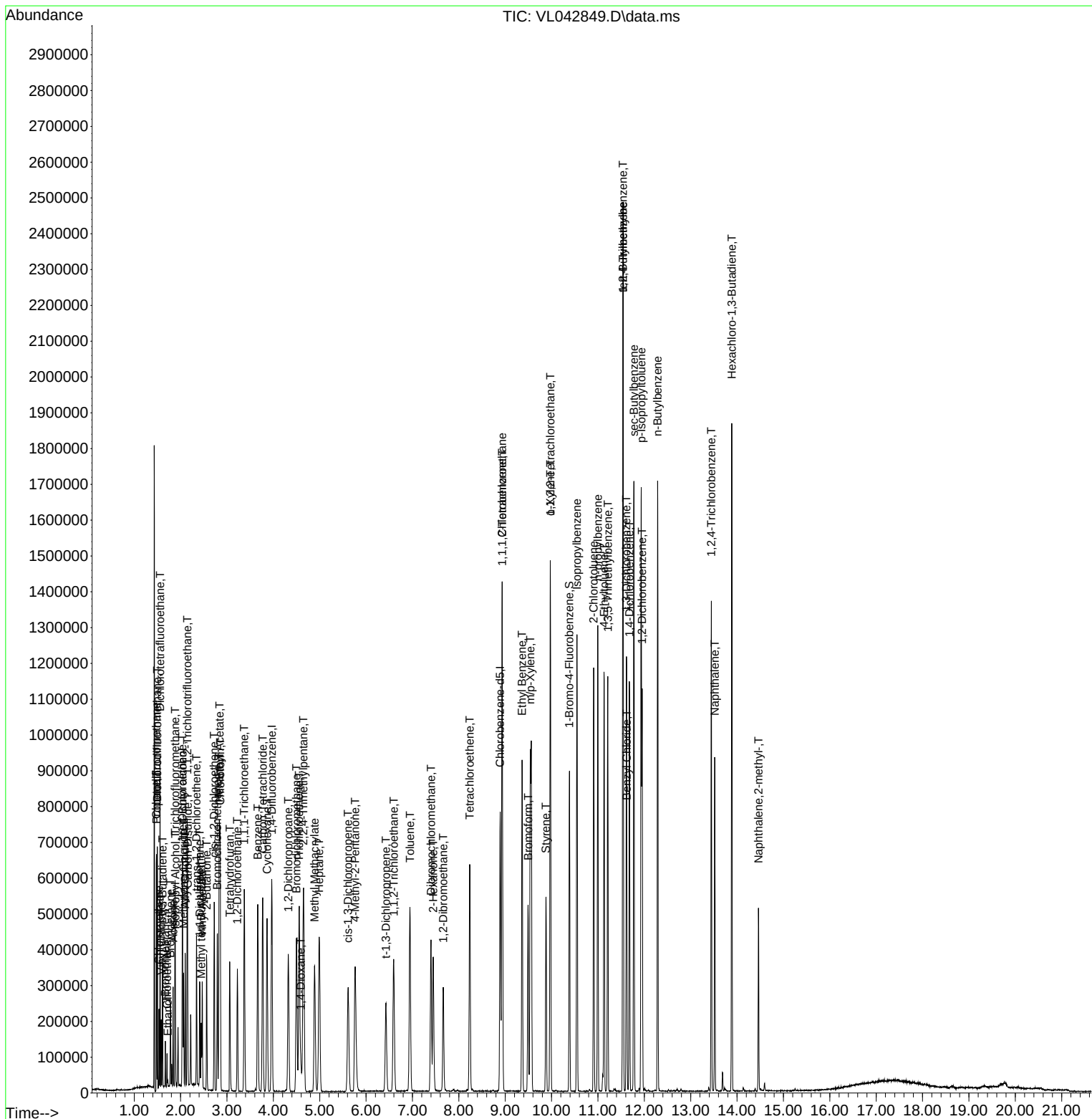
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 ClientSampleId :
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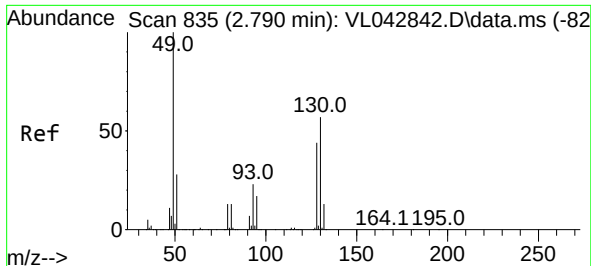
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	108009	5.200	ppbv	99
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.542	91	462620	10.029	ppbv #	100
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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

Quant Time: Aug 14 02:16:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

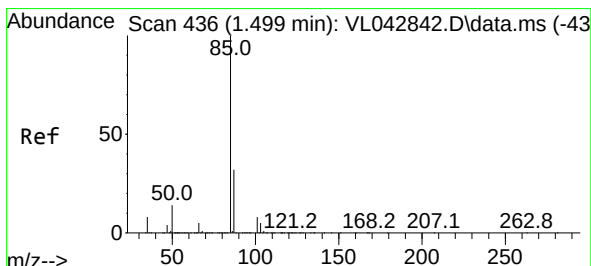
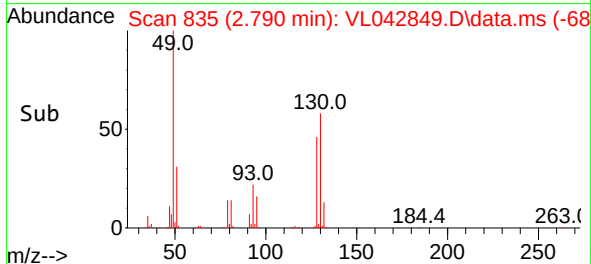
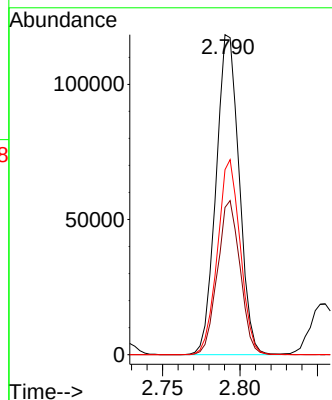
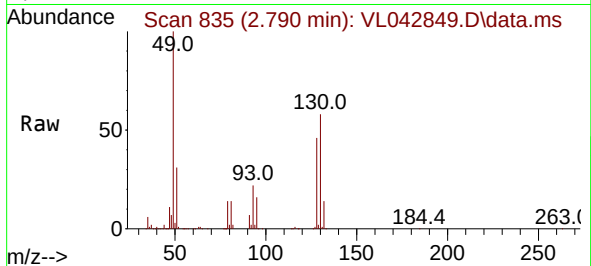




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

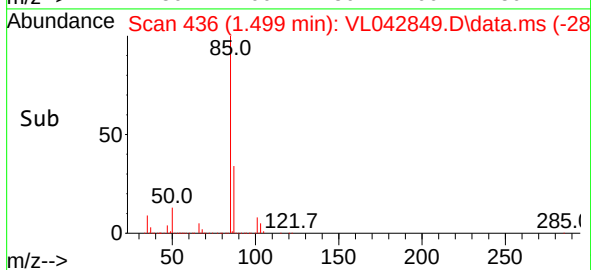
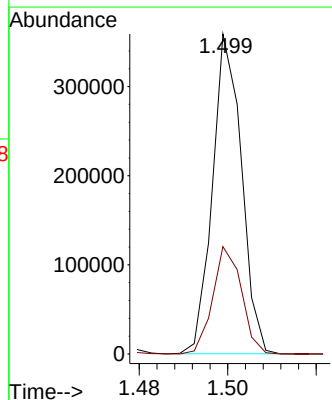
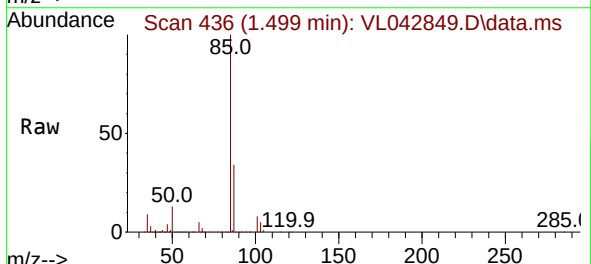
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

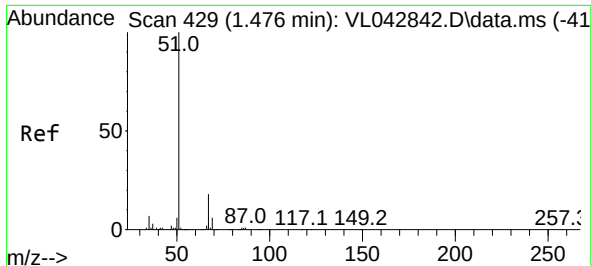
Tgt Ion: 49 Resp: 122486
Ion Ratio Lower Upper
49 100
128 47.2 23.7 71.1
130 60.0 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 9.105 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 163446
Ion Ratio Lower Upper
85 100
87 33.6 25.3 37.9

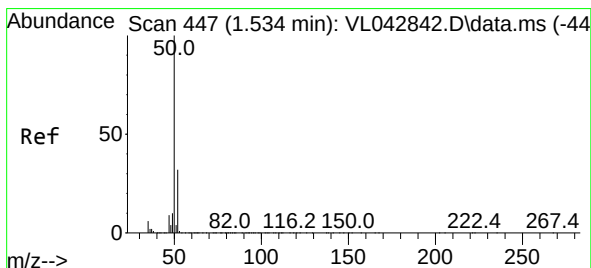
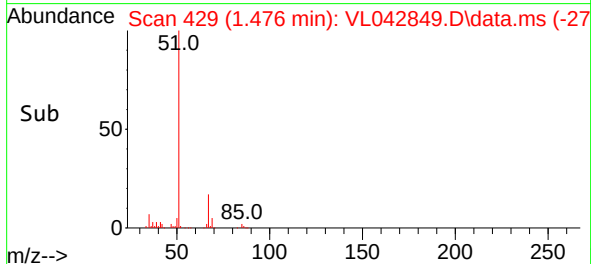
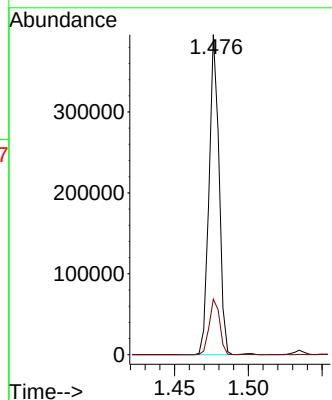
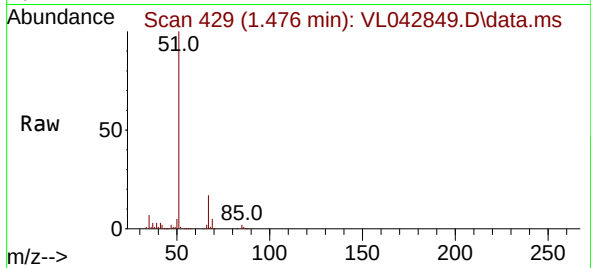




#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

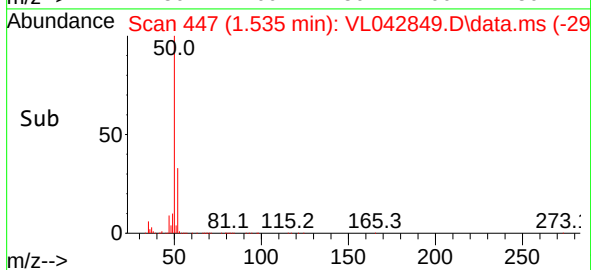
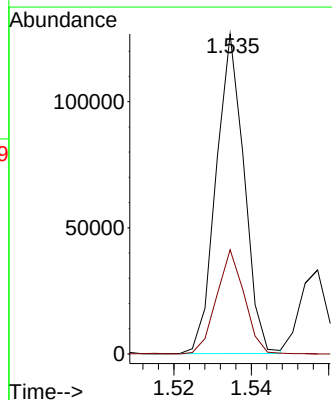
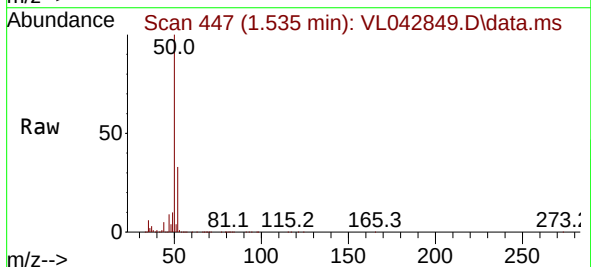
Instrument :
MSVOA_L
ClientSampleId :
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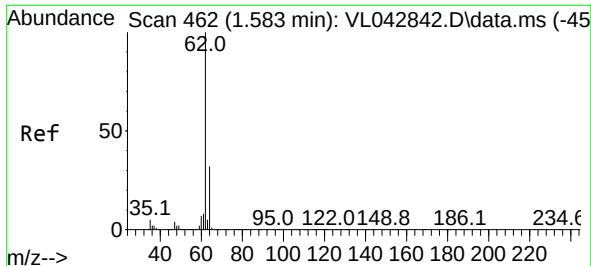
Tgt Ion: 51 Resp: 185078
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#4
Chloromethane
Concen: 8.784 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 50 Resp: 63634
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9

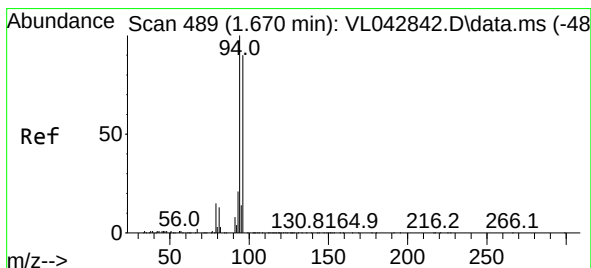
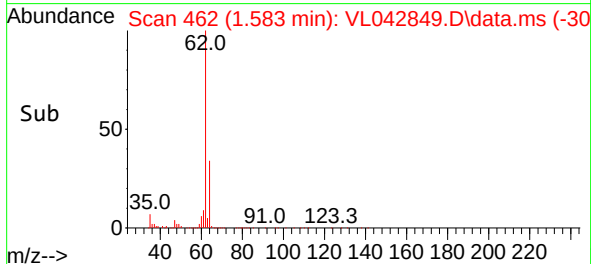
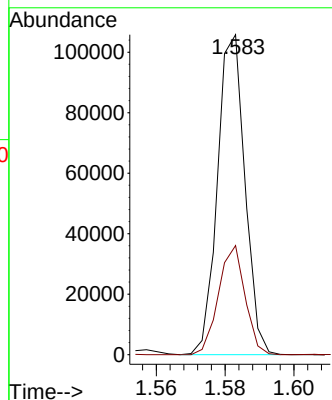
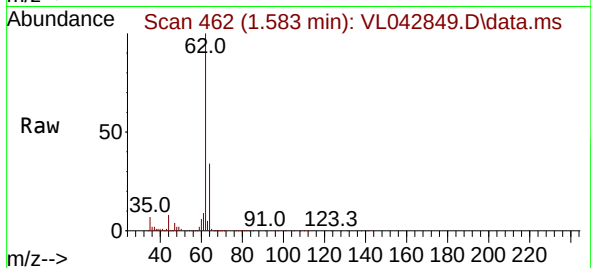




#5
 Vinyl Chloride
 Concen: 8.232 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

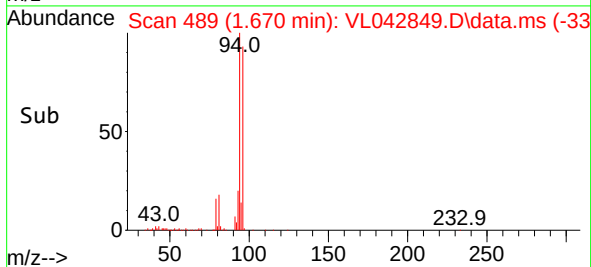
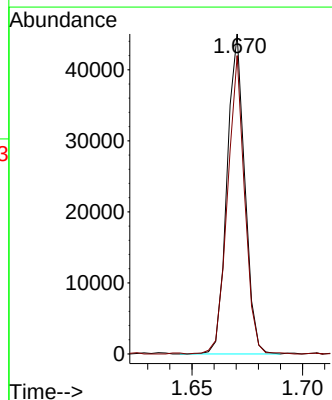
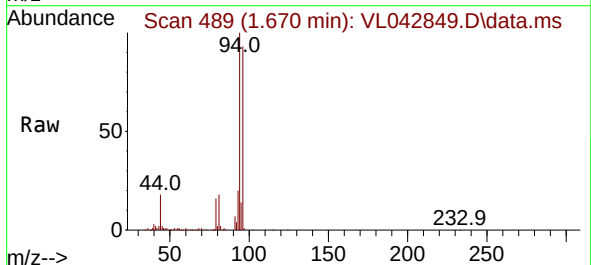
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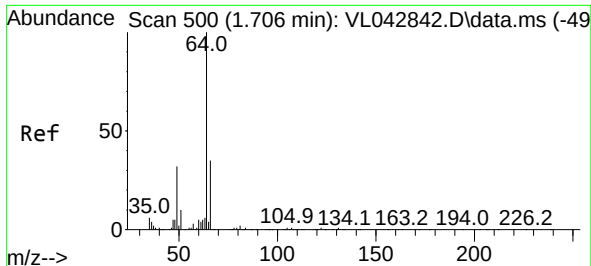
Tgt Ion: 62 Resp: 58729
 Ion Ratio Lower Upper
 62 100
 64 34.1 25.4 38.2



#6
 Bromomethane
 Concen: 8.801 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 94 Resp: 25105
 Ion Ratio Lower Upper
 94 100
 96 92.9 72.1 108.1

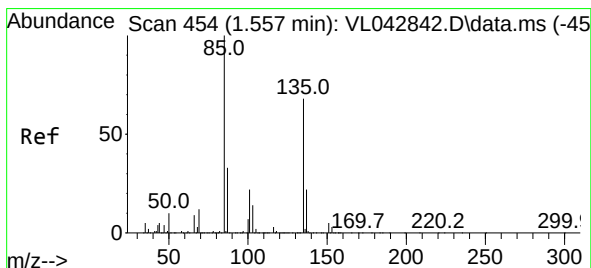
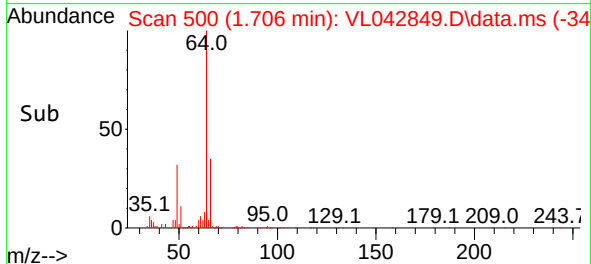
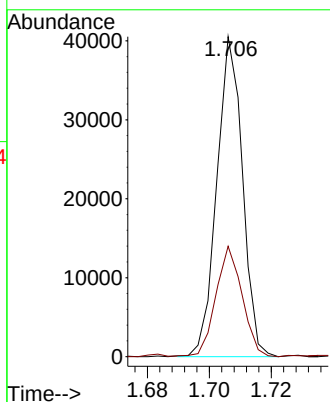
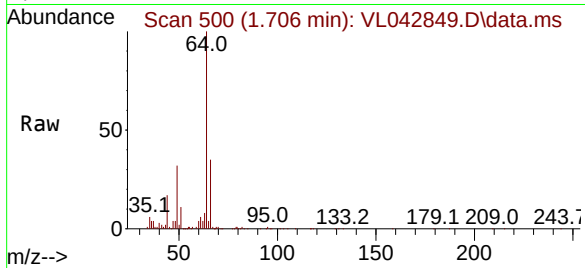




#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

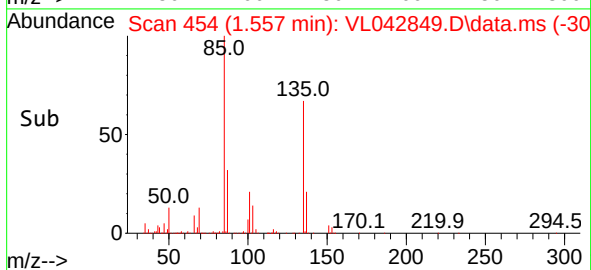
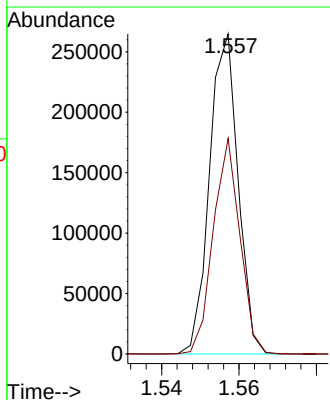
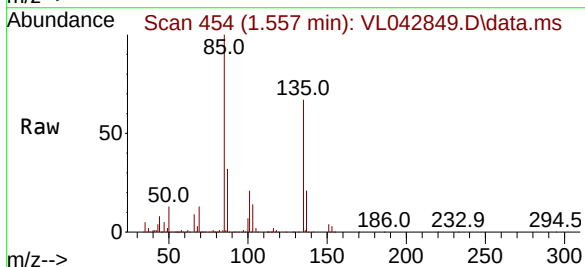
Instrument :
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ClientSampleId :
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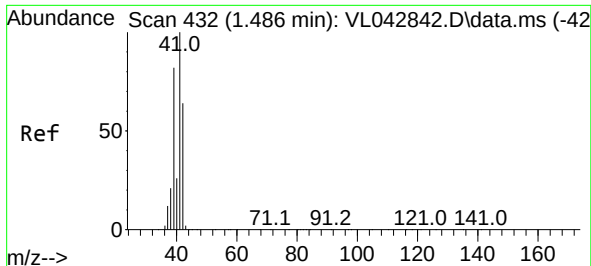
Tgt Ion: 64 Resp: 23293
Ion Ratio Lower Upper
64 100
66 34.5 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 135845
Ion Ratio Lower Upper
85 100
135 62.9 51.2 76.8





#9

Propene

Concen: 8.922 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

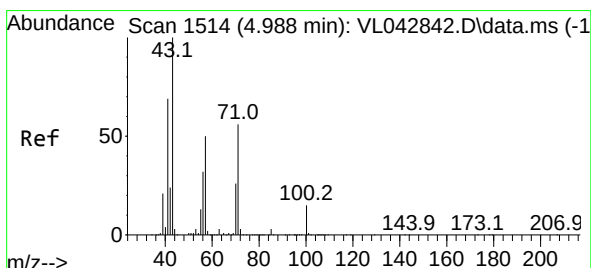
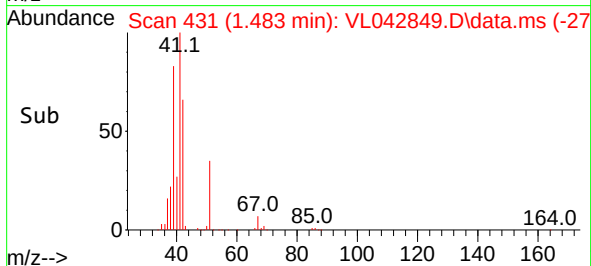
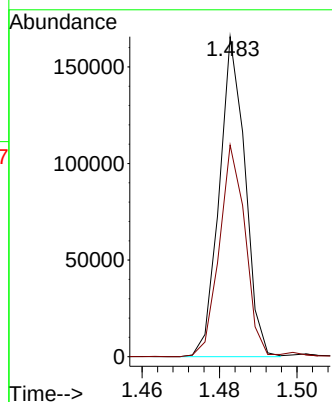
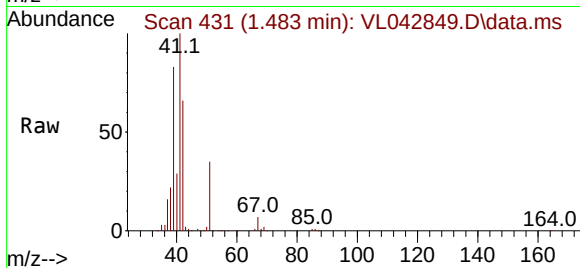
ICVVL081325

Tgt Ion: 41 Resp: 76457

Ion Ratio Lower Upper

41 100

42 68.4 53.0 79.4



#10

Heptane

Concen: 8.990 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042849.D

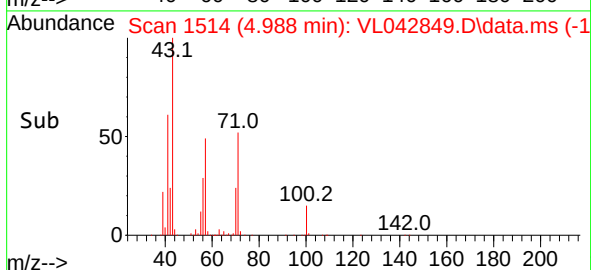
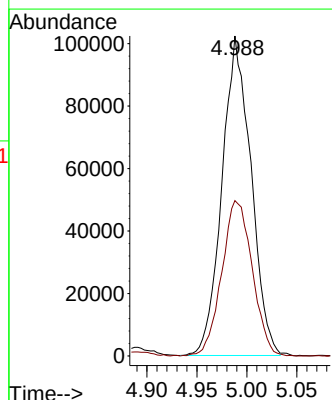
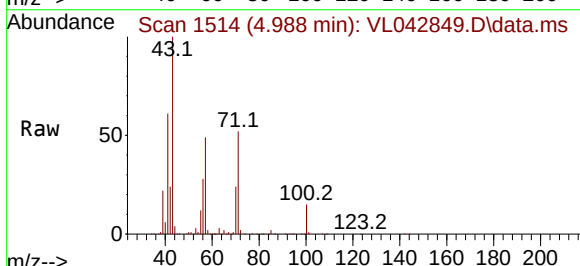
Acq: 13 Aug 2025 12:56

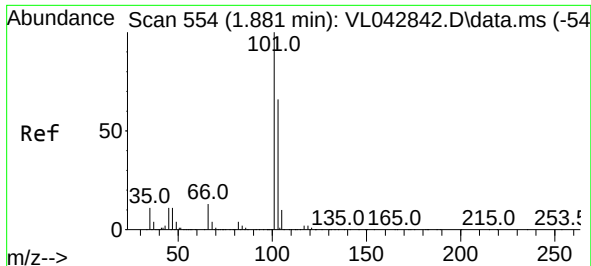
Tgt Ion: 43 Resp: 206333

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0

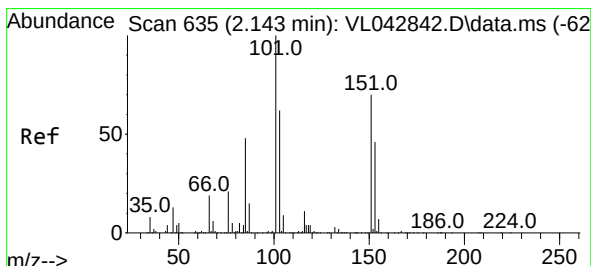
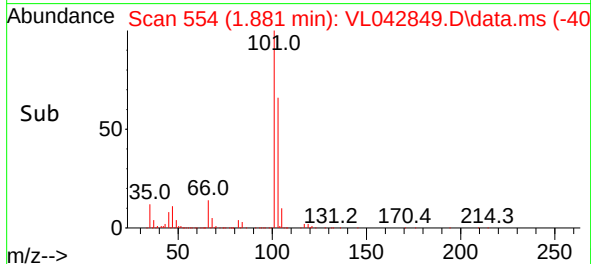
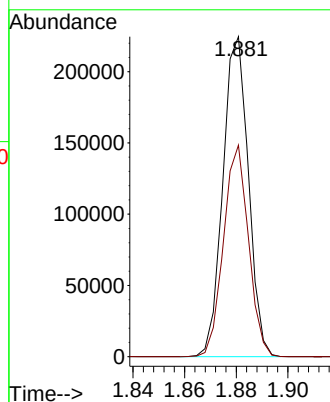
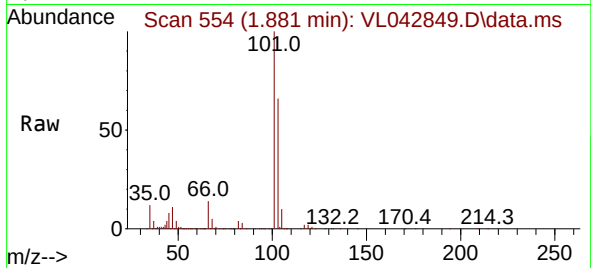




#11
 Trichlorofluoromethane
 Concen: 8.707 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

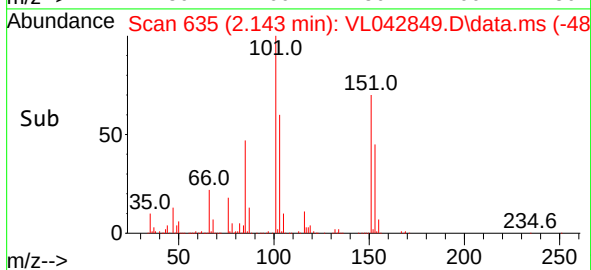
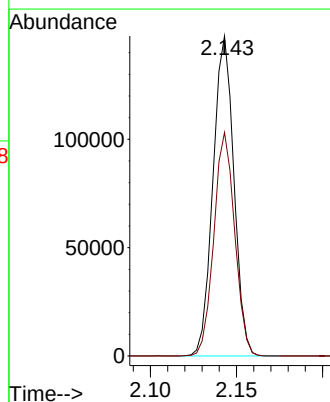
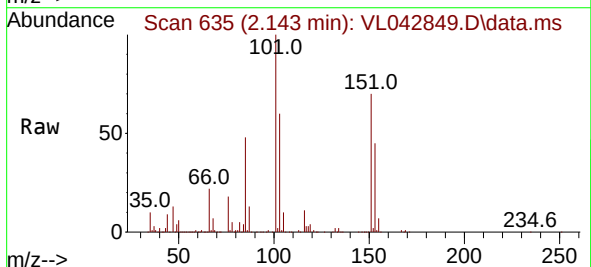
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

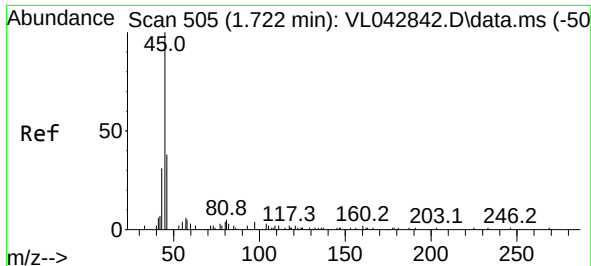
Tgt Ion:101 Resp: 154211
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.824 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion:101 Resp: 124558
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6

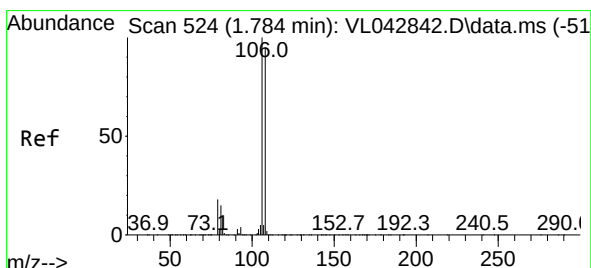
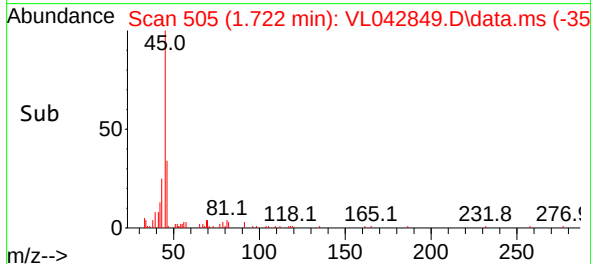
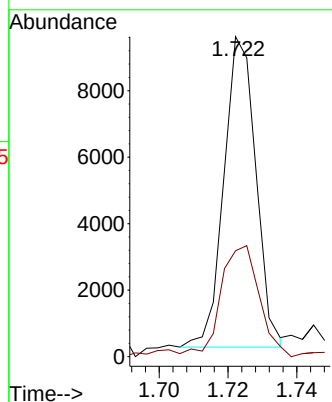
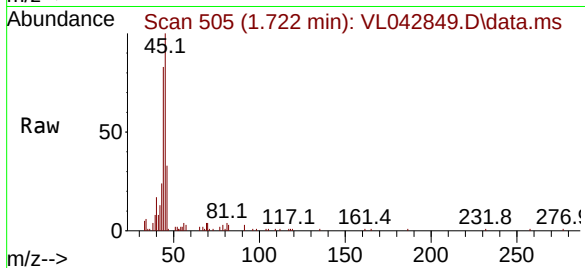




#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

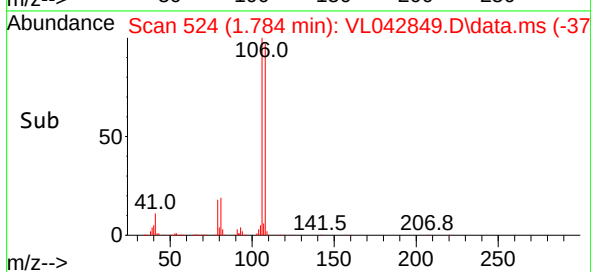
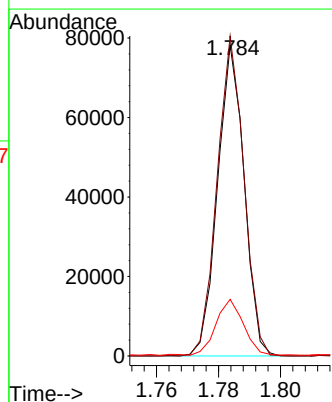
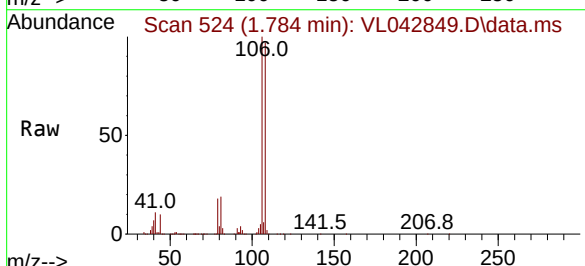
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

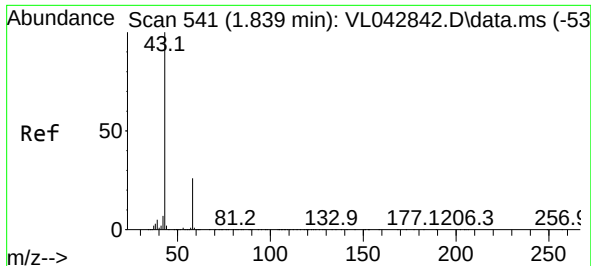
Tgt Ion: 45 Resp: 6016
Ion Ratio Lower Upper
45 100
46 46.2 17.5 69.9



#14
Bromoethene
Concen: 9.105 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 108 Resp: 46528
Ion Ratio Lower Upper
108 100
106 104.1 85.1 127.7
79 19.8 16.3 24.5

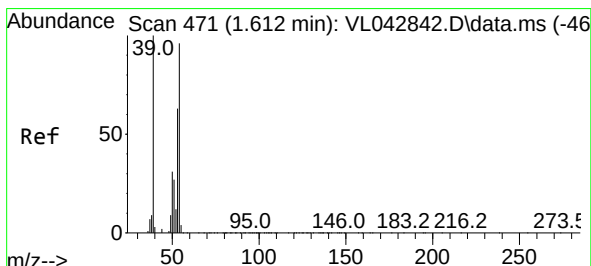
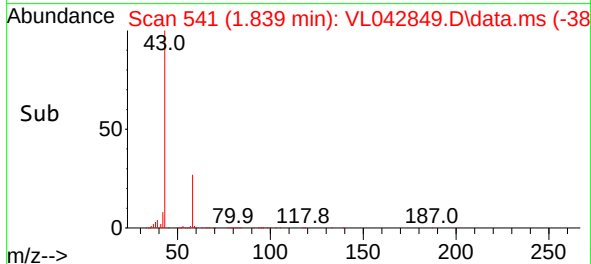
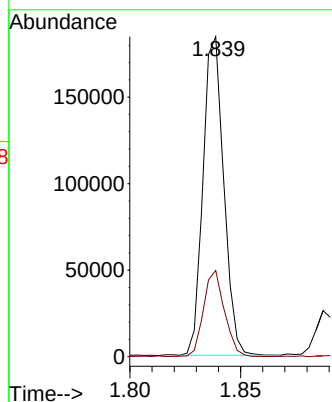
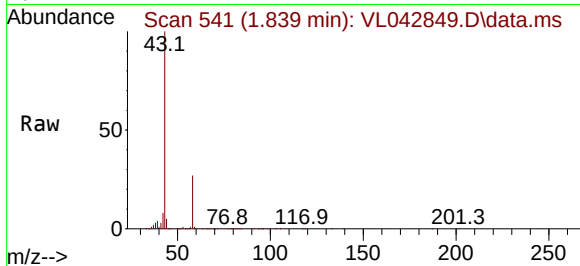




#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

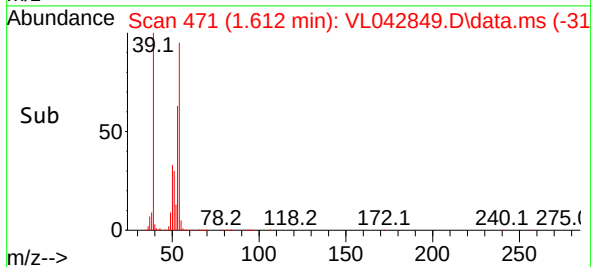
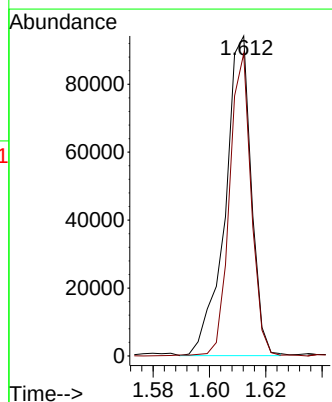
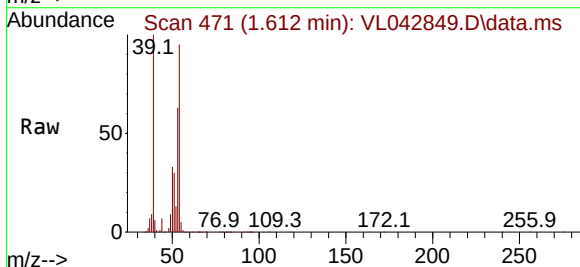
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

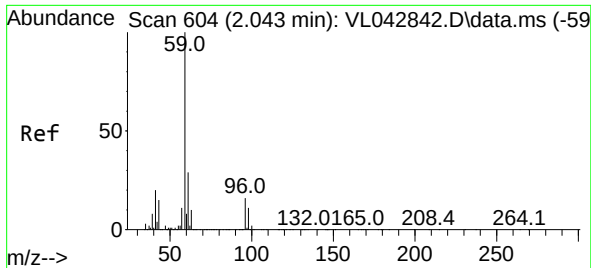
Tgt Ion: 43 Resp: 119723
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6



#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 39 Resp: 60853
Ion Ratio Lower Upper
39 100
54 78.9 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.663 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

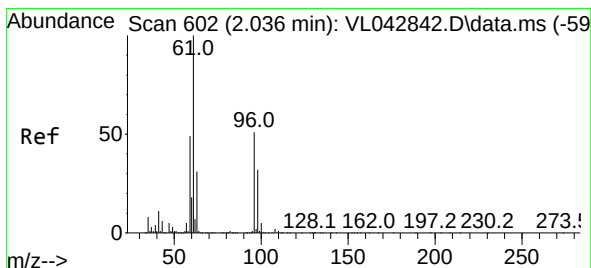
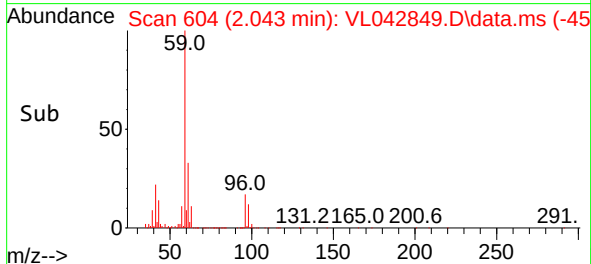
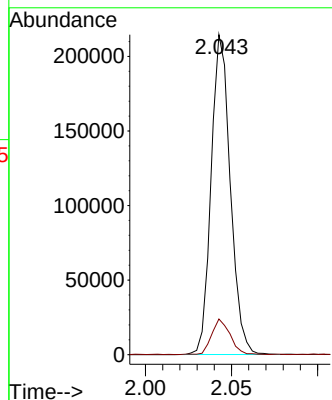
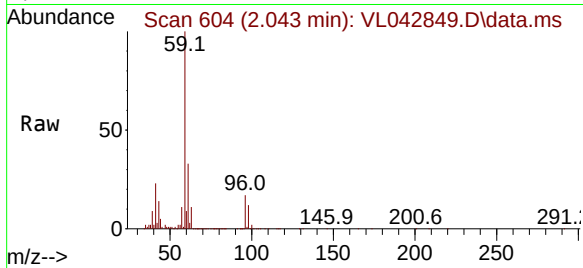
ICVVL081325

Tgt Ion: 59 Resp: 166457

Ion Ratio Lower Upper

59 100

57 10.7 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.087 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

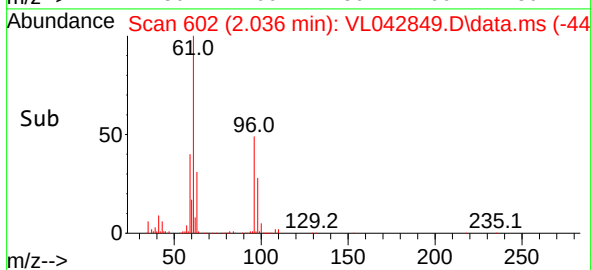
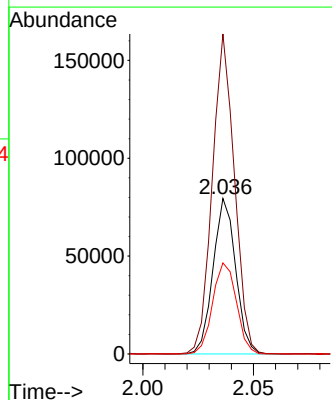
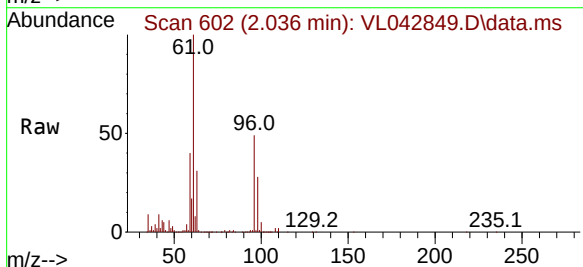
Tgt Ion: 96 Resp: 56397

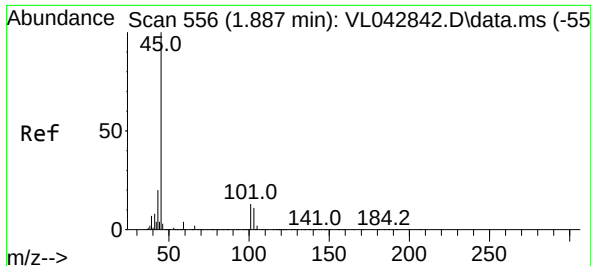
Ion Ratio Lower Upper

96 100

61 205.8 158.2 237.4

98 58.5 50.6 76.0

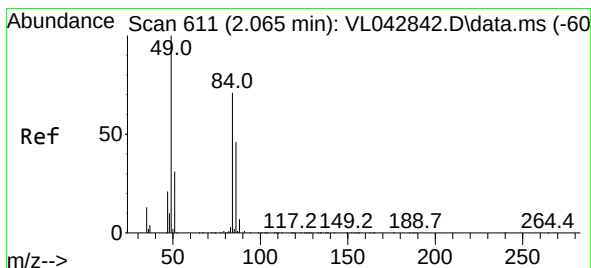
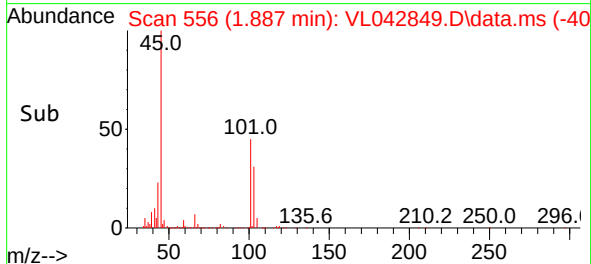
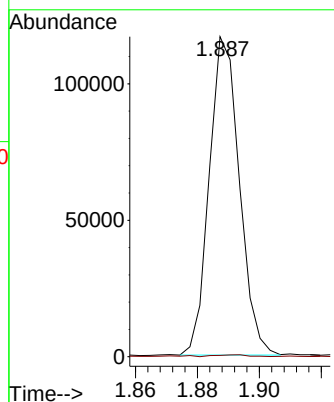
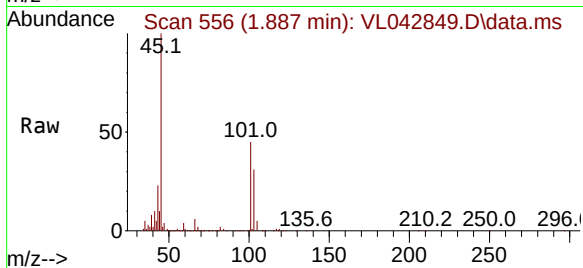




#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

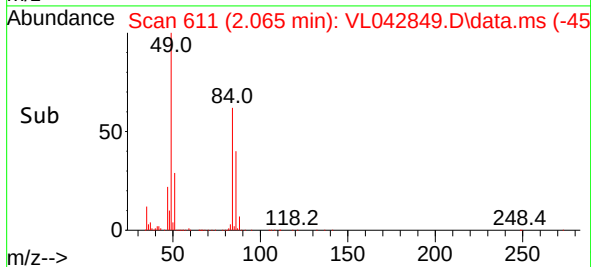
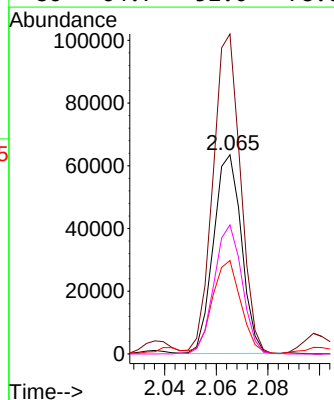
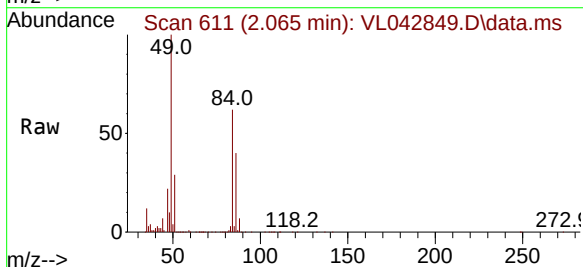
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

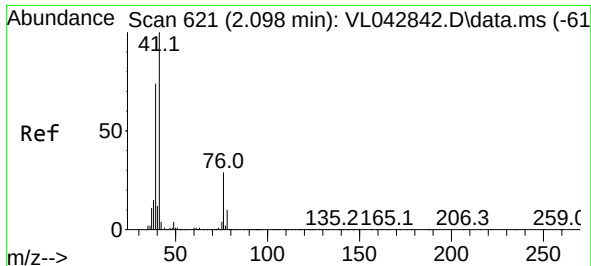
Tgt Ion: 45 Resp: 78832
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1



#20
Methylene Chloride
Concen: 7.041 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 84 Resp: 47793
Ion Ratio Lower Upper
84 100
49 160.7 112.3 168.5
51 46.9 36.0 54.0
86 64.7 52.0 78.0

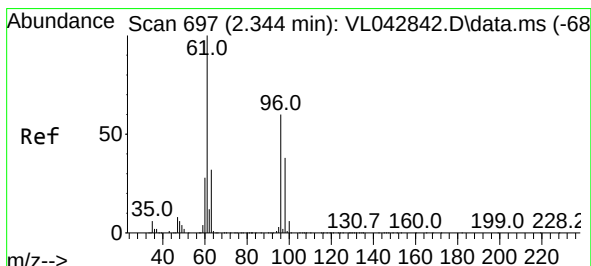
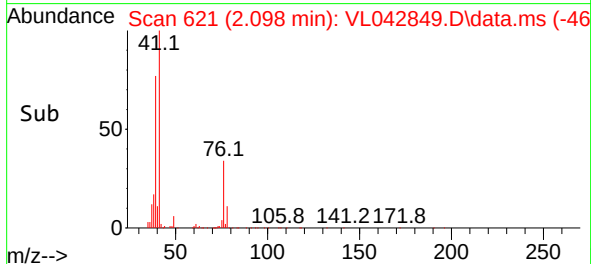
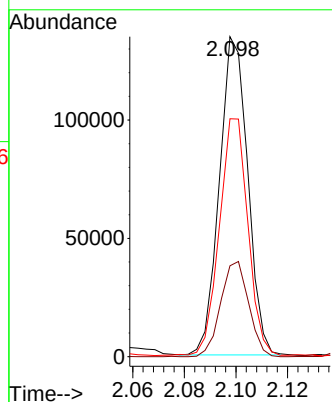
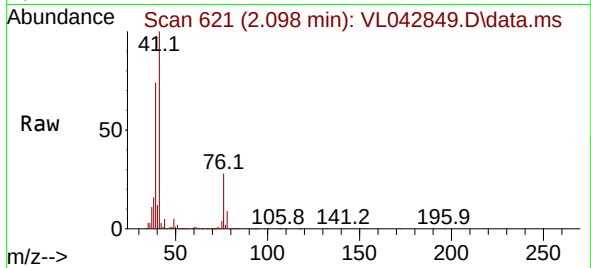




#21
 Allyl Chloride
 Concen: 8.956 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

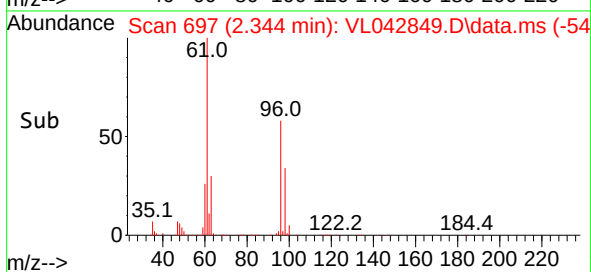
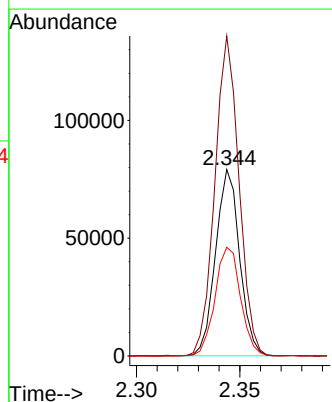
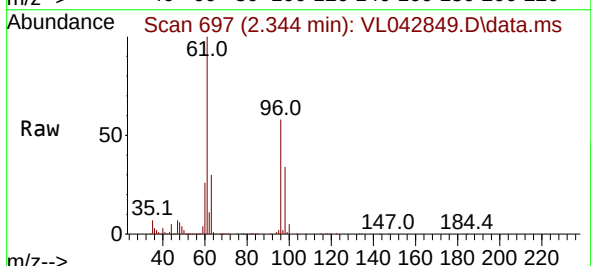
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

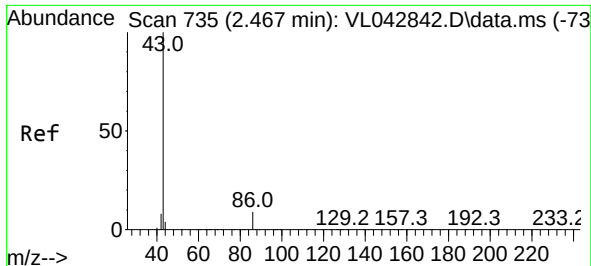
Tgt Ion: 41 Resp: 102514
 Ion Ratio Lower Upper
 41 100
 76 29.5 23.9 35.9
 39 76.1 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 8.904 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 96 Resp: 63932
 Ion Ratio Lower Upper
 96 100
 61 171.8 132.6 199.0
 98 58.3 50.0 75.0



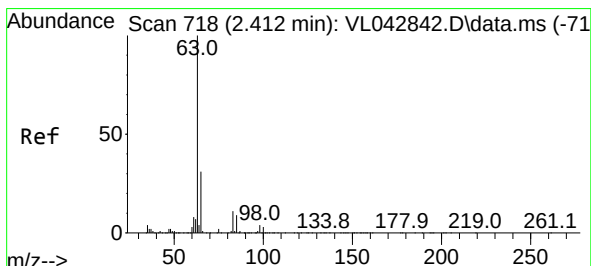
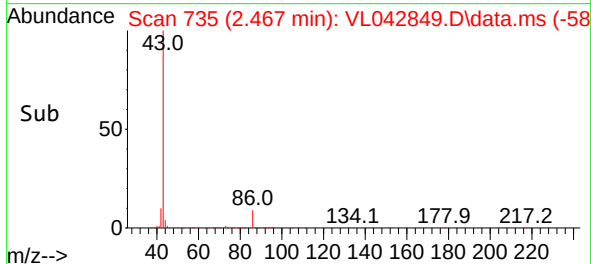
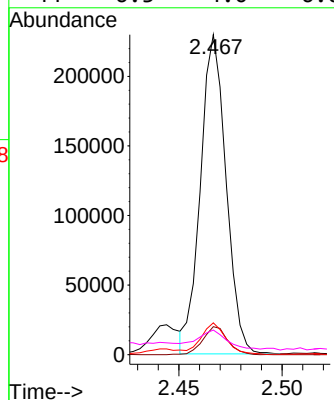
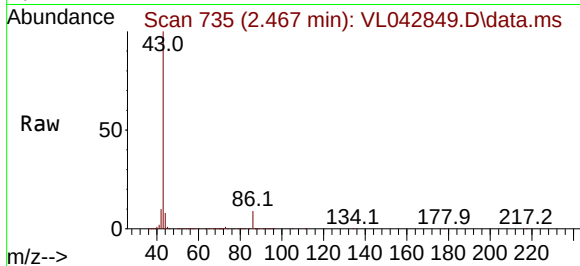


#23
 Vinyl Acetate
 Concen: 8.891 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL081325

Tgt Ion: 43 Resp: 198083

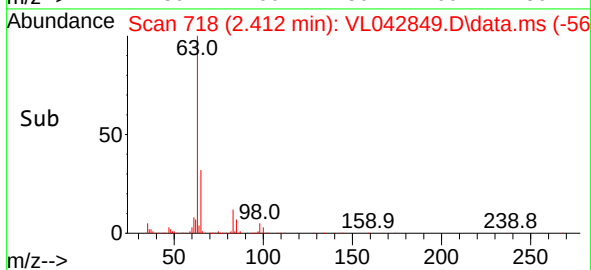
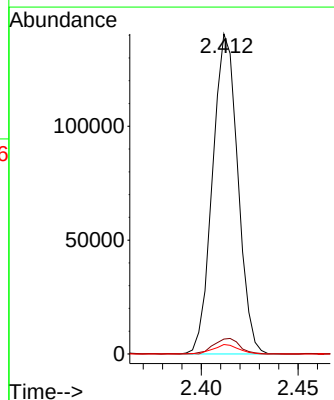
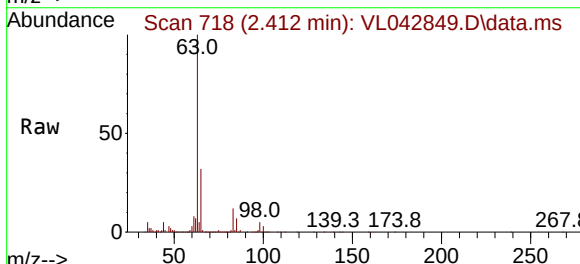
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.8	7.0	10.6
44	6.3	4.0	6.0

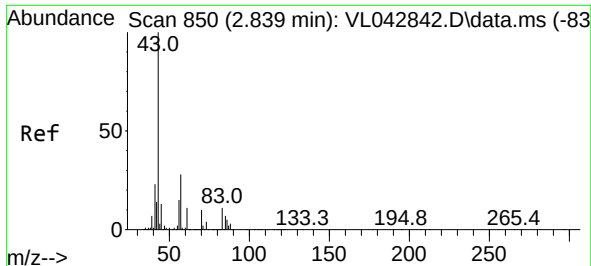


#24
 1,1-Dichloroethane
 Concen: 8.903 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 63 Resp: 127660

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.1	6.5
100	3.0	1.7	5.1



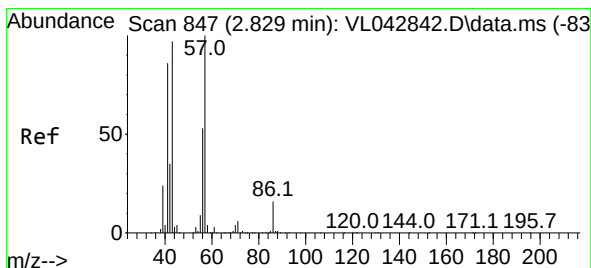
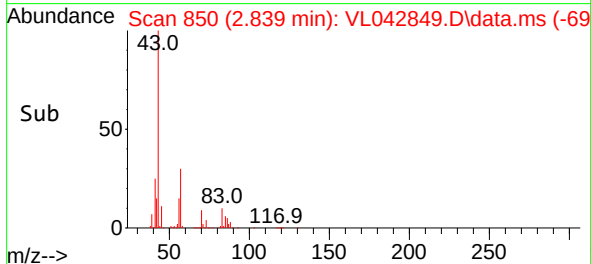
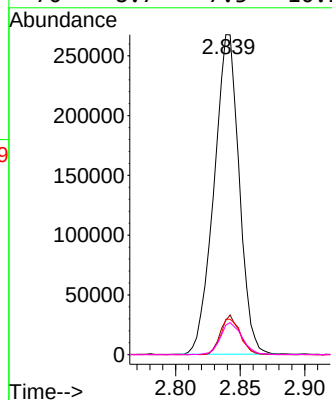
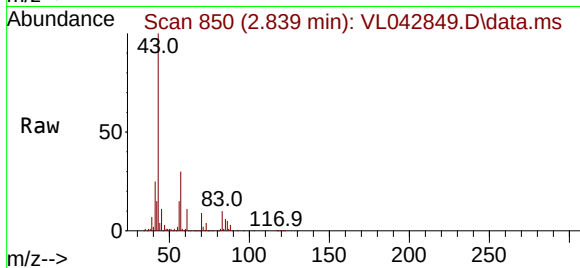


#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 43 Resp: 362325

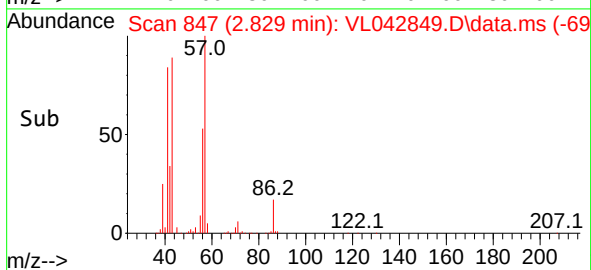
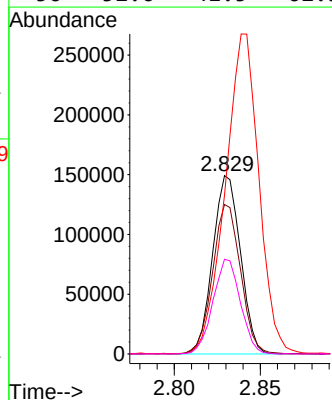
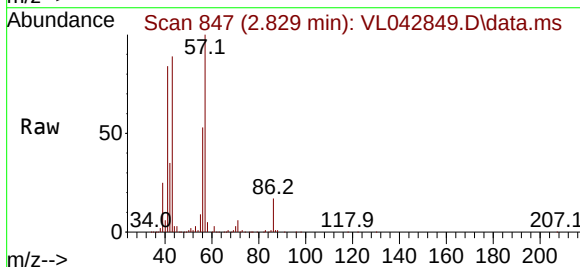
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.1	7.4	11.2
70	8.7	7.3	10.9

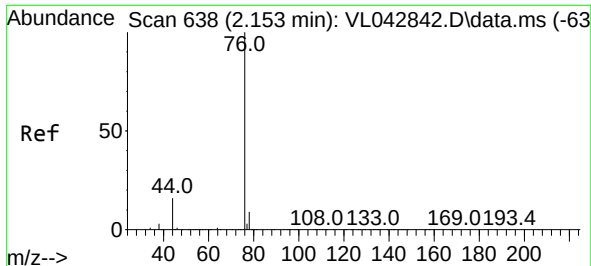


#26
Hexane
Concen: 9.246 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 57 Resp: 167364

Ion	Ratio	Lower	Upper
57	100		
41	85.0	68.6	103.0
43	218.2	168.5	252.7
56	52.6	41.5	62.3





#27

Carbon Disulfide

Concen: 8.841 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

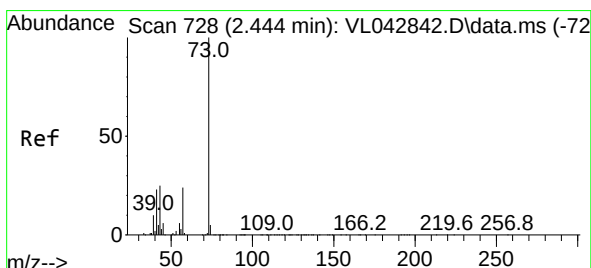
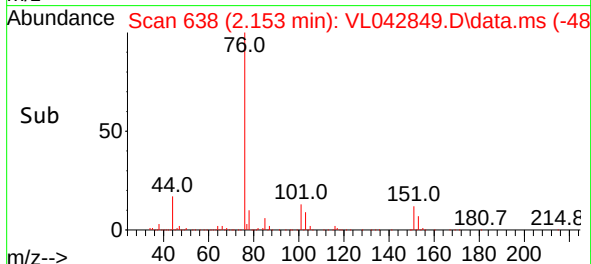
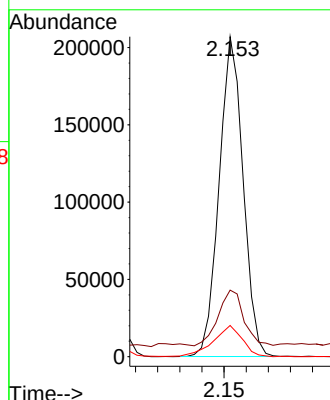
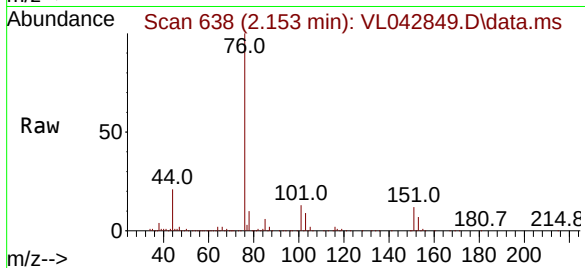
Tgt Ion: 76 Resp: 155729

Ion Ratio Lower Upper

76 100

44 19.2 15.9 23.9

78 11.9 9.5 14.3



#28

Methyl tert-Butyl Ether

Concen: 8.898 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.000 min

Lab File: VL042849.D

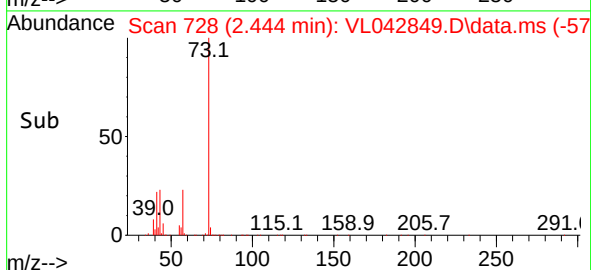
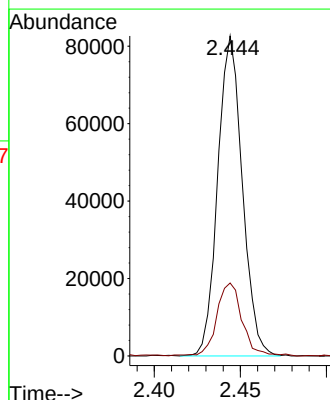
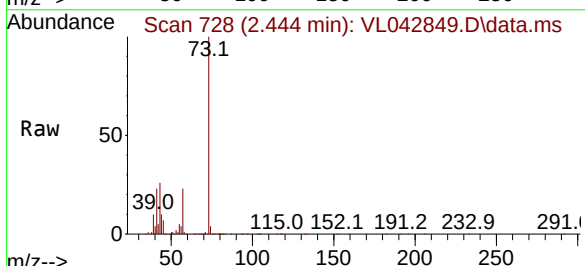
Acq: 13 Aug 2025 12:56

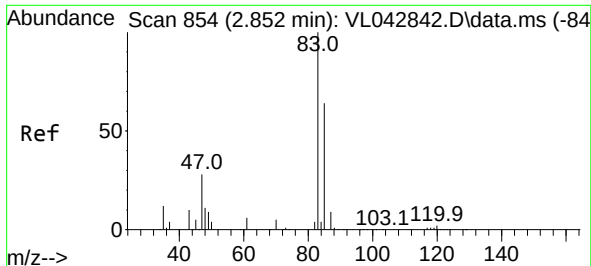
Tgt Ion: 73 Resp: 82126

Ion Ratio Lower Upper

73 100

57 22.9 21.6 32.4





#29

Chloroform

Concen: 9.377 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

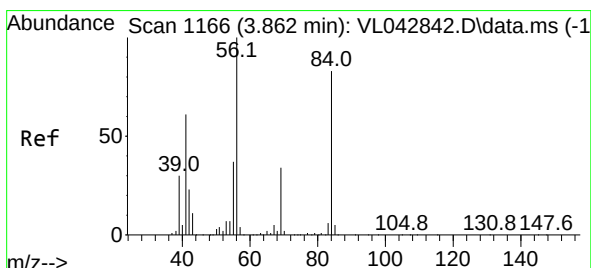
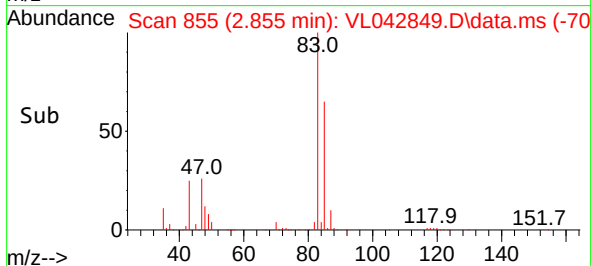
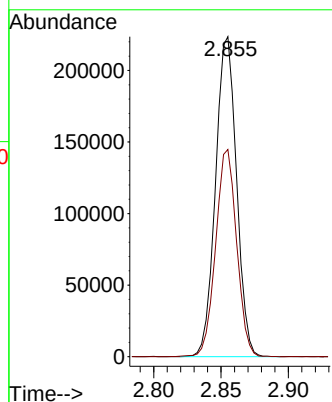
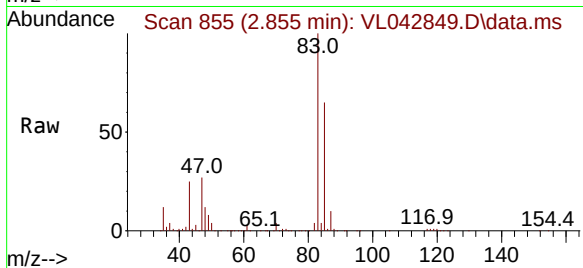
ICVVL081325

Tgt Ion: 83 Resp: 242320

Ion Ratio Lower Upper

83 100

85 64.8 51.1 76.7



#30

Cyclohexane

Concen: 9.289 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

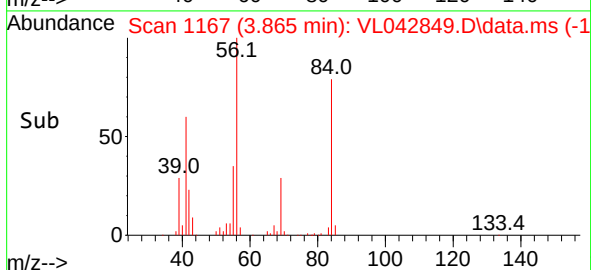
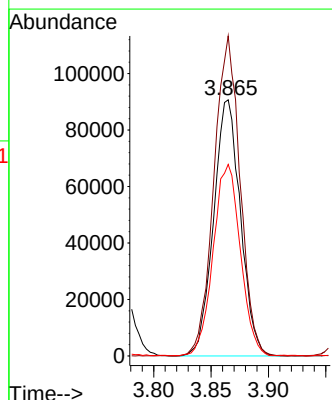
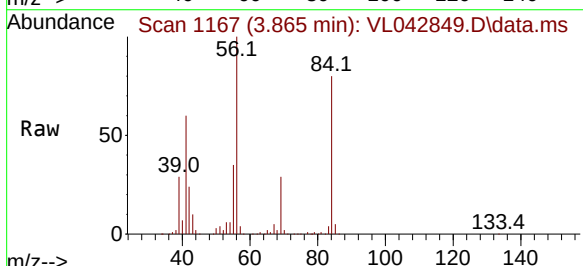
Tgt Ion: 84 Resp: 147417

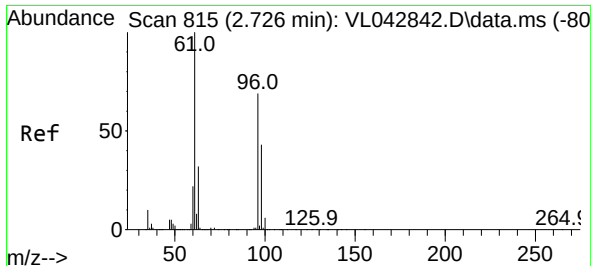
Ion Ratio Lower Upper

84 100

56 122.1 98.8 148.2

41 75.8 61.3 91.9

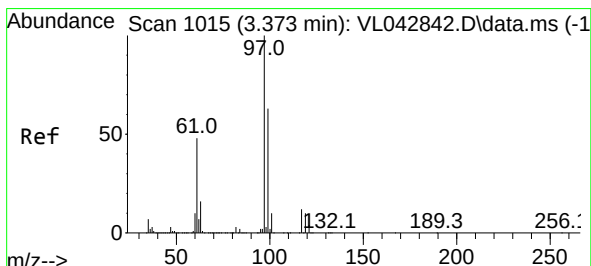
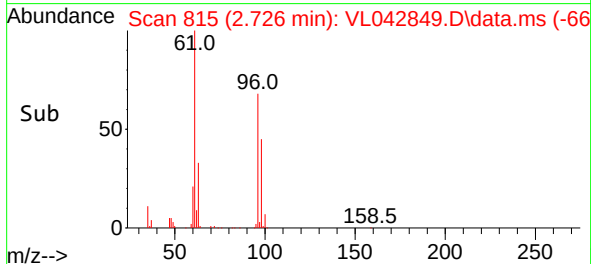
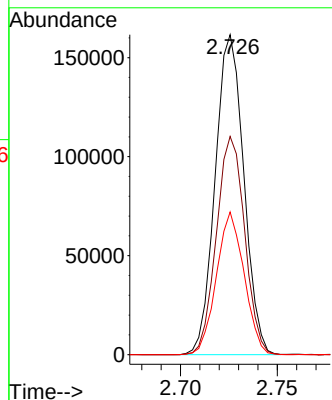
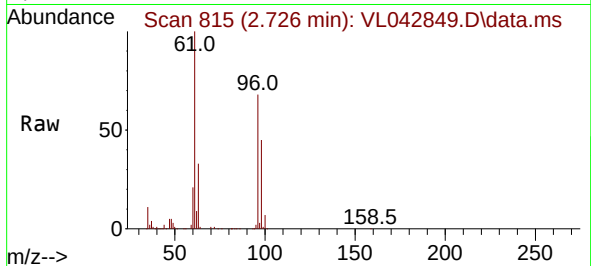




#31
 cis-1,2-Dichloroethene
 Concen: 9.196 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

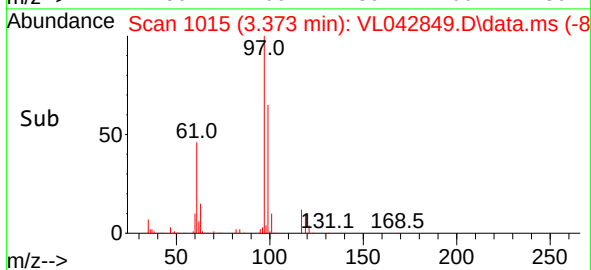
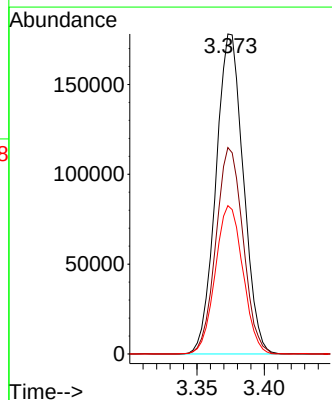
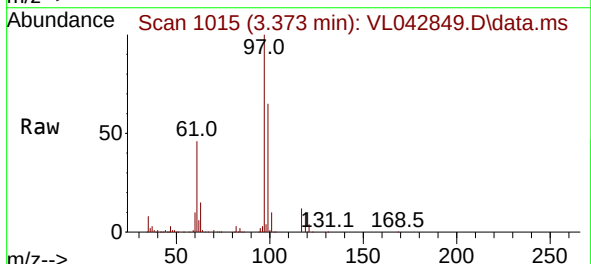
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

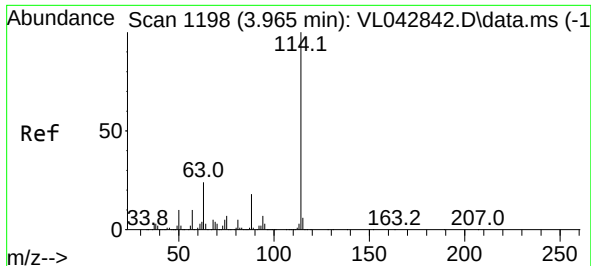
Tgt Ion: 61 Resp: 166268
 Ion Ratio Lower Upper
 61 100
 96 68.2 55.0 82.6
 98 44.5 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 9.256 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 97 Resp: 252813
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 46.7 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

ICVVL081325

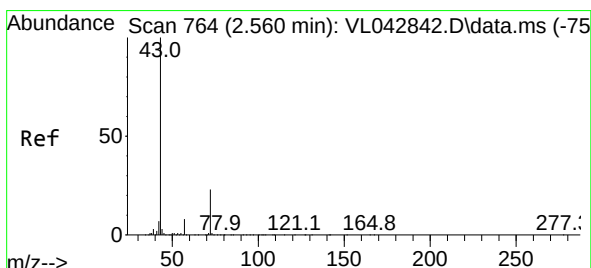
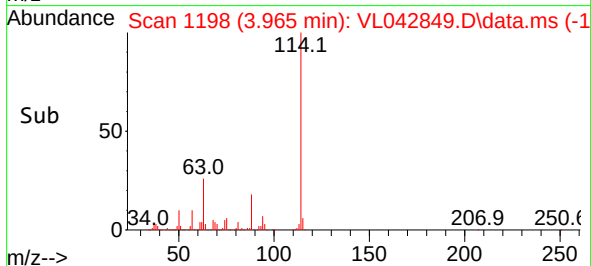
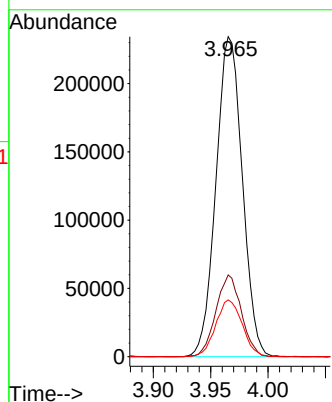
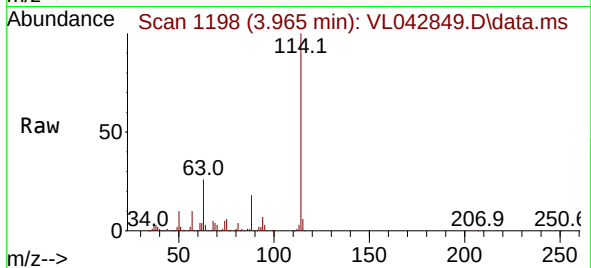
Tgt Ion:114 Resp: 374448

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 9.135 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042849.D

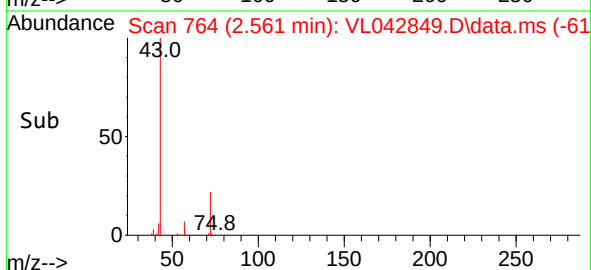
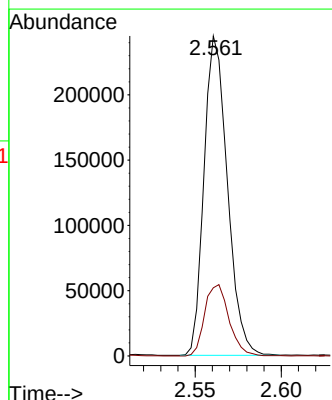
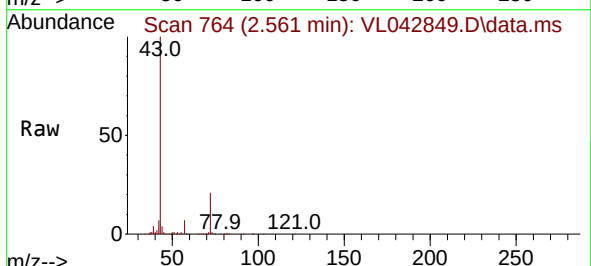
Acq: 13 Aug 2025 12:56

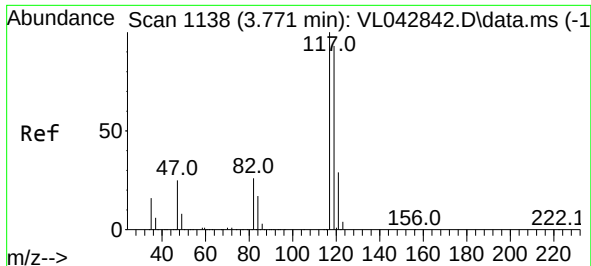
Tgt Ion: 43 Resp: 230961

Ion Ratio Lower Upper

43 100

72 23.4 18.6 28.0

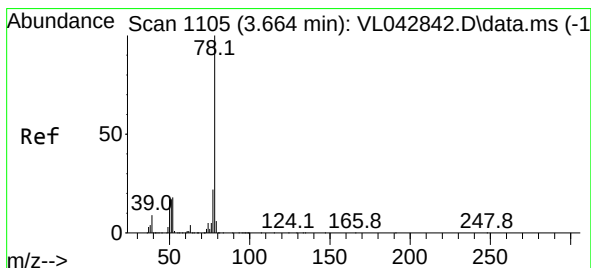
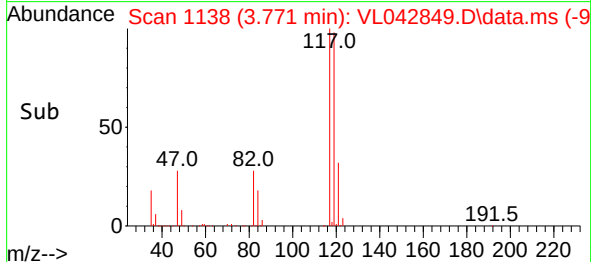
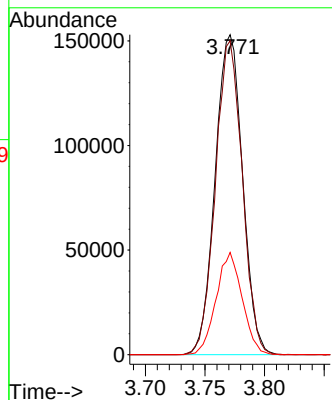
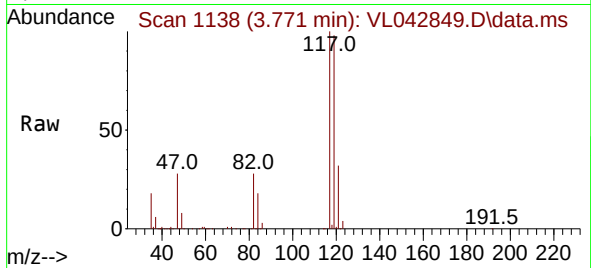




#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

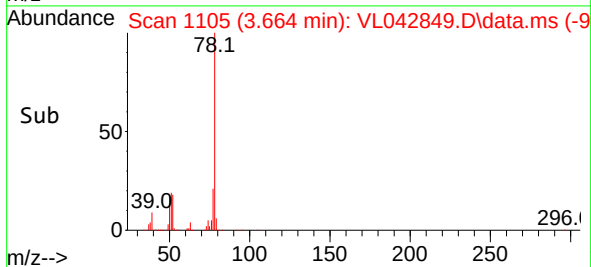
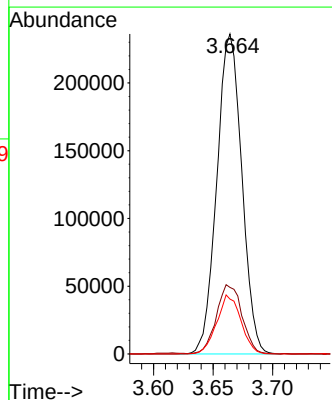
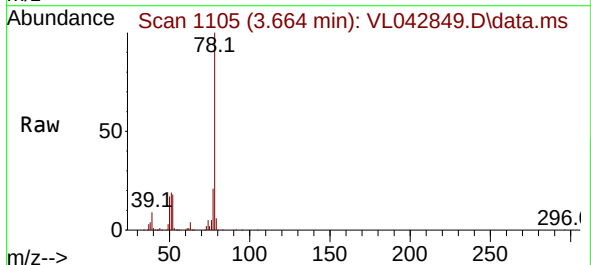
Instrument : MSVOA_L
ClientSampleId : ICVVL081325

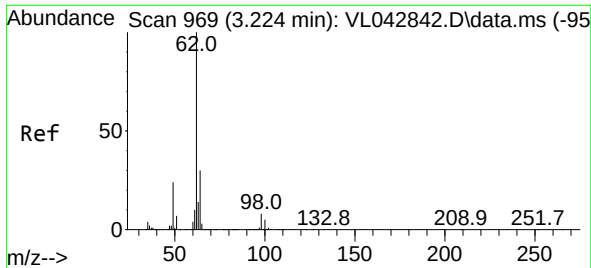
Tgt Ion:117 Resp: 244671
Ion Ratio Lower Upper
117 100
119 98.1 74.7 112.1
121 32.0 23.2 34.8



#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 78 Resp: 343952
Ion Ratio Lower Upper
78 100
77 20.8 17.7 26.5
50 17.1 13.9 20.9

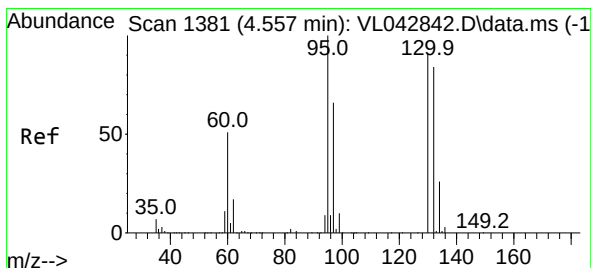
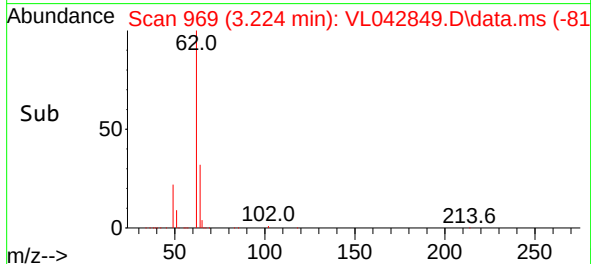
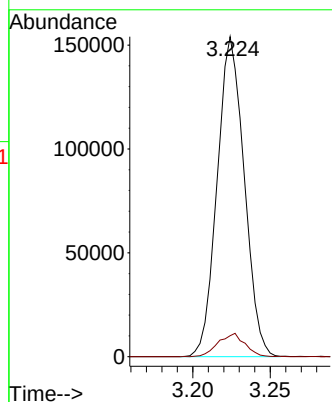
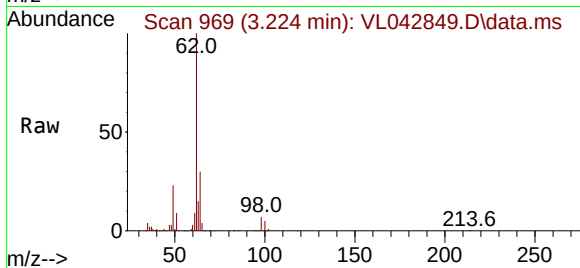




#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

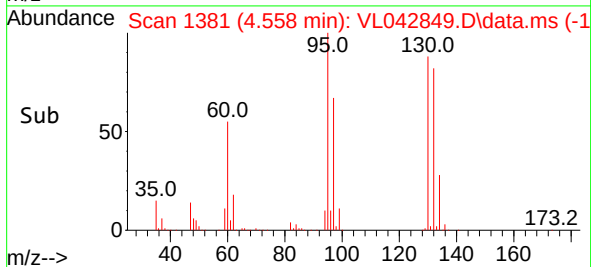
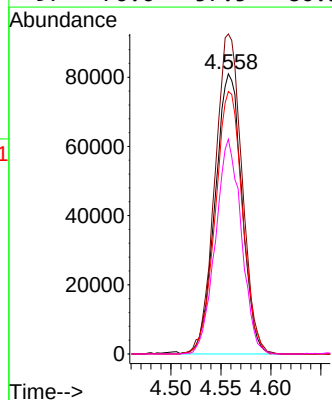
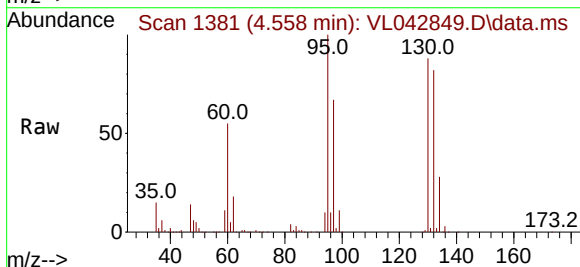
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

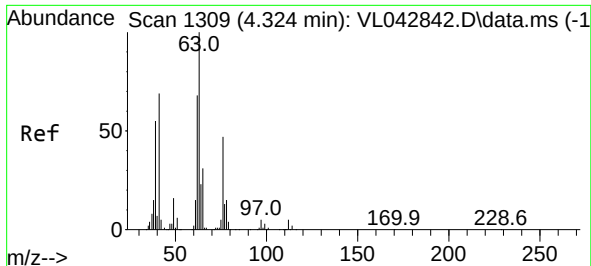
Tgt Ion: 62 Resp: 187160
Ion Ratio Lower Upper
62 100
98 7.2 5.9 8.9



#38
Trichloroethene
Concen: 9.202 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 130 Resp: 150693
Ion Ratio Lower Upper
130 100
95 114.2 87.6 131.4
132 93.6 73.8 110.8
97 76.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.436 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

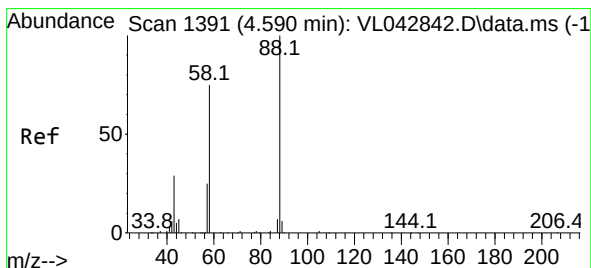
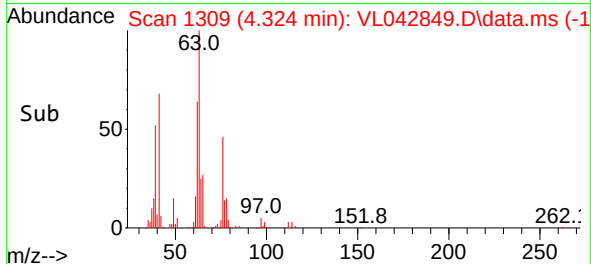
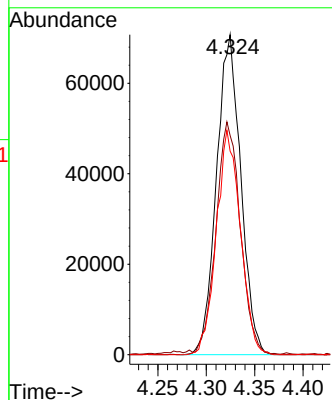
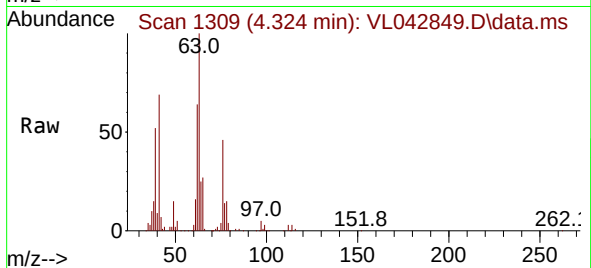
Tgt Ion: 63 Resp: 123566

Ion Ratio Lower Upper

63 100

41 68.4 55.0 82.4

62 63.6 54.4 81.6



#40

1,4-Dioxane

Concen: 8.879 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion: 88 Resp: 55292

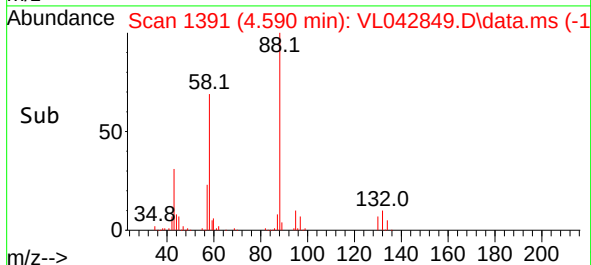
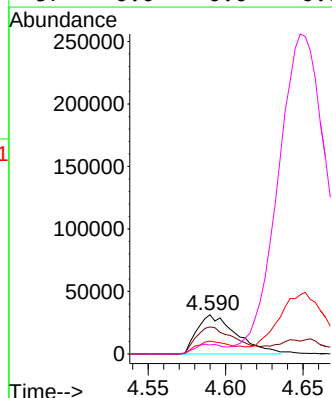
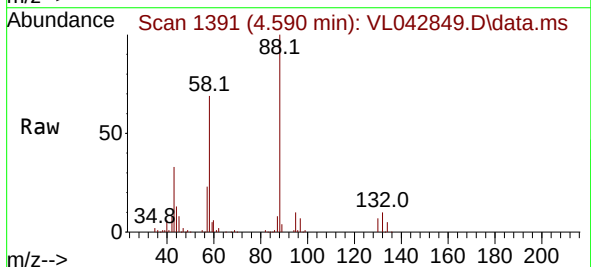
Ion Ratio Lower Upper

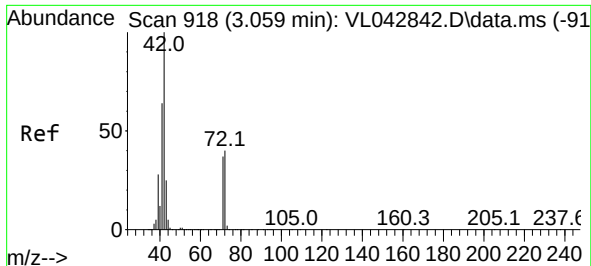
88 100

58 72.7 53.8 80.6

43 32.4 22.8 34.2

57 0.0 0.0 0.0

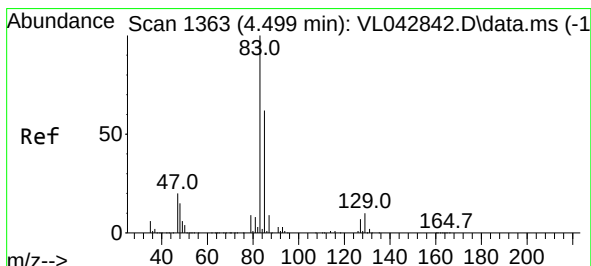
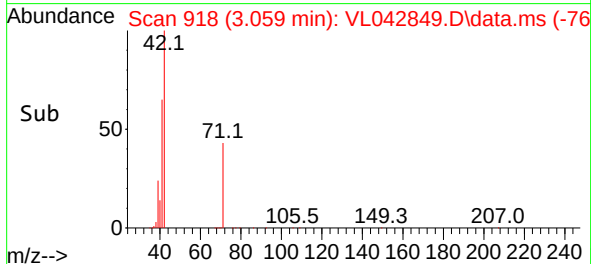
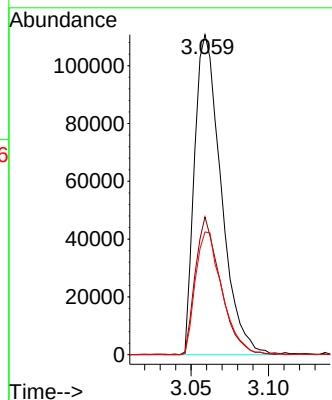
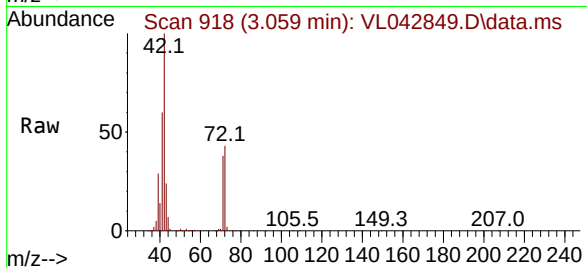




#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

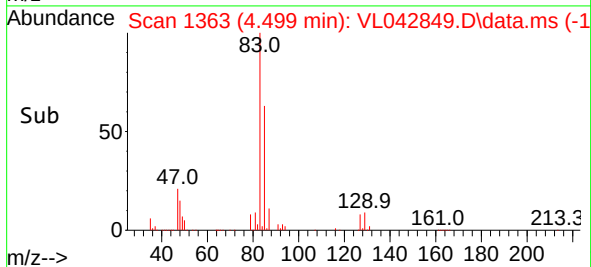
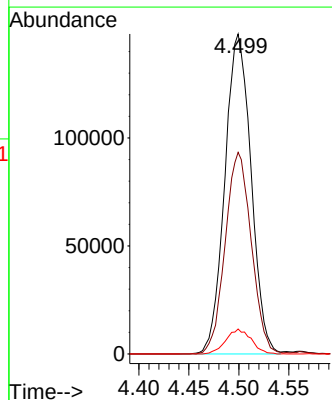
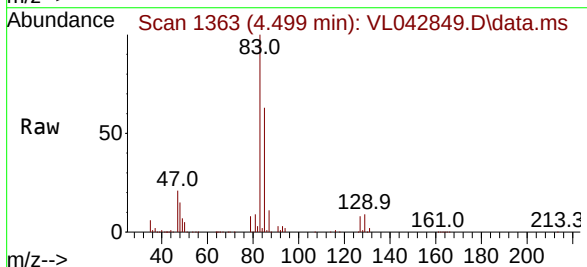
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

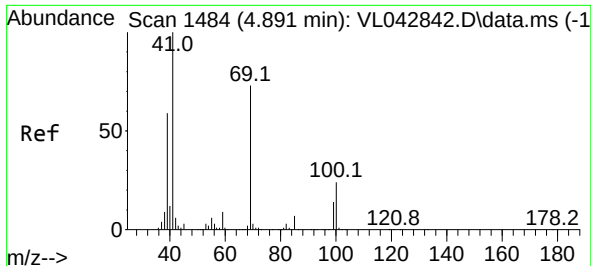
Tgt Ion: 42 Resp: 132108
Ion Ratio Lower Upper
42 100
72 40.8 32.6 48.8
71 39.0 30.0 45.0



#42
Bromodichloromethane
Concen: 9.678 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 83 Resp: 270154
Ion Ratio Lower Upper
83 100
85 63.0 49.8 74.8
127 7.8 5.8 8.6

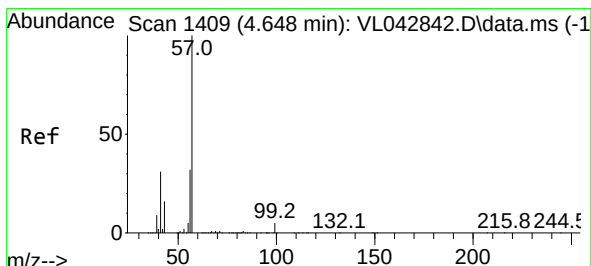
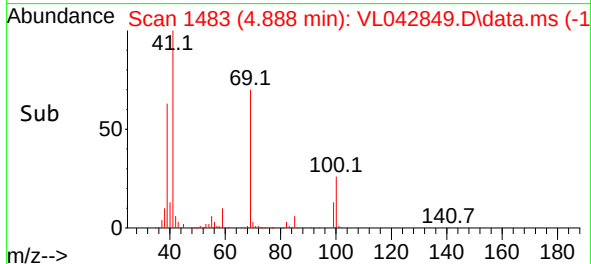
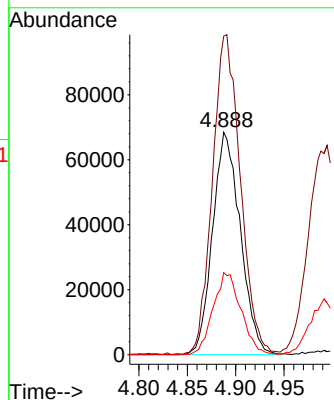
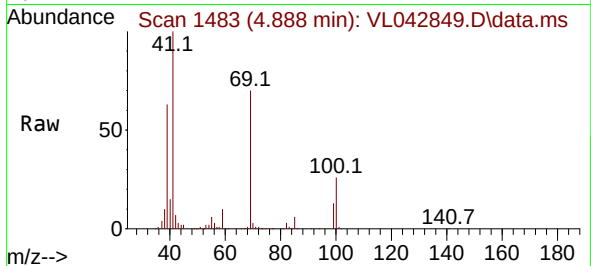




#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

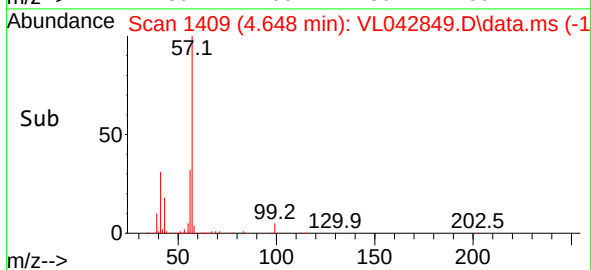
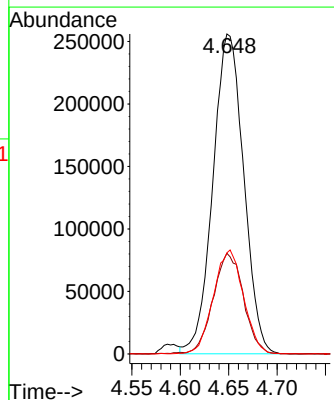
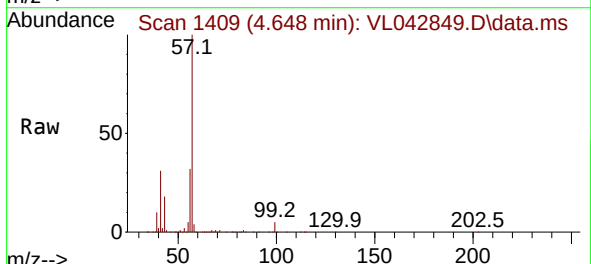
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

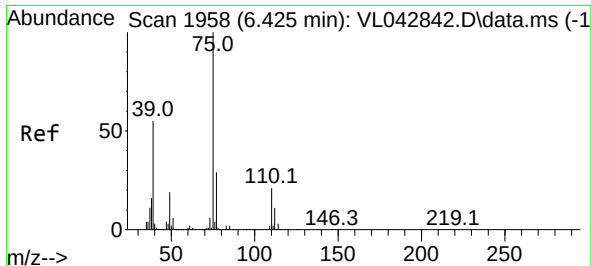
Tgt Ion: 69 Resp: 136329
Ion Ratio Lower Upper
69 100
41 144.9 114.6 172.0
100 37.0 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 57 Resp: 565415
Ion Ratio Lower Upper
57 100
41 31.3 24.8 37.2
56 31.9 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.645 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

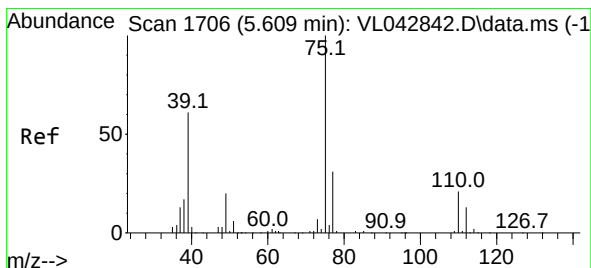
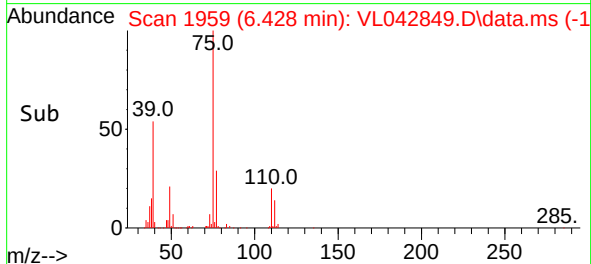
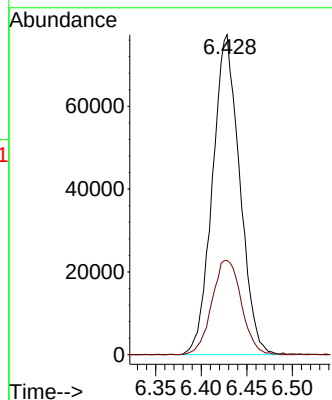
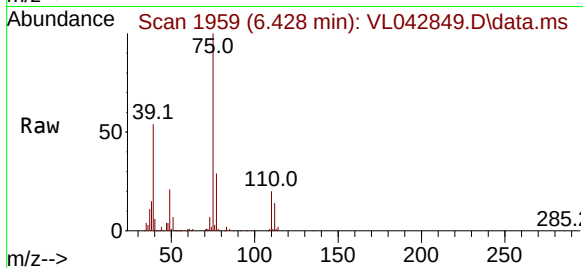
ICVVL081325

Tgt Ion: 75 Resp: 160784

Ion Ratio Lower Upper

75 100

77 29.5 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 5.200 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

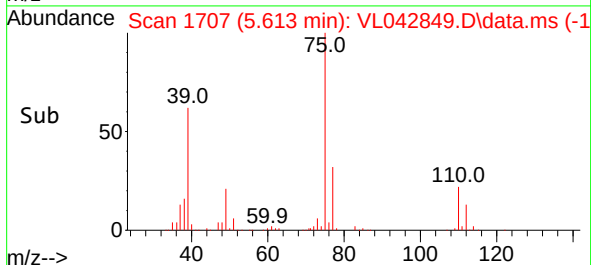
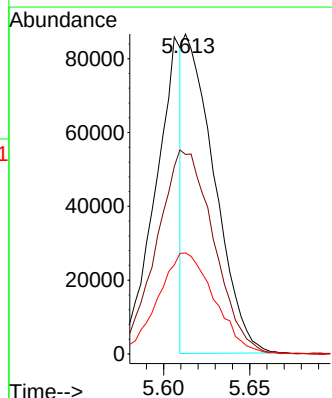
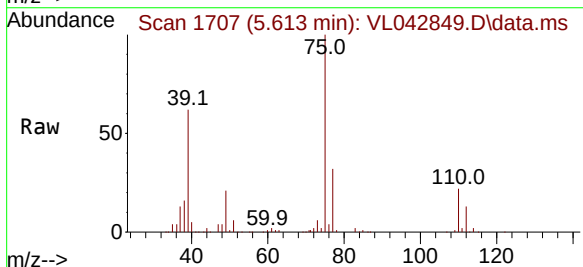
Tgt Ion: 75 Resp: 108009

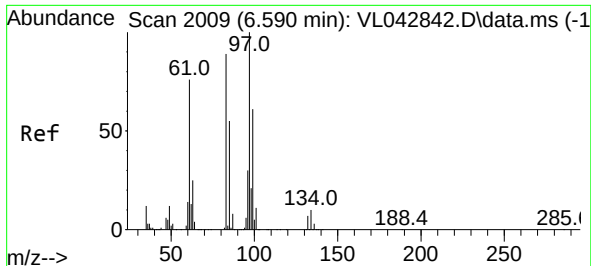
Ion Ratio Lower Upper

75 100

39 62.2 48.9 73.3

77 31.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.553 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion: 97 Resp: 132548

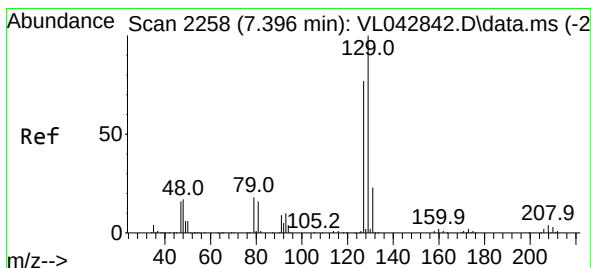
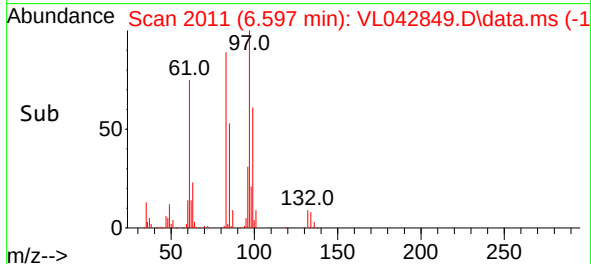
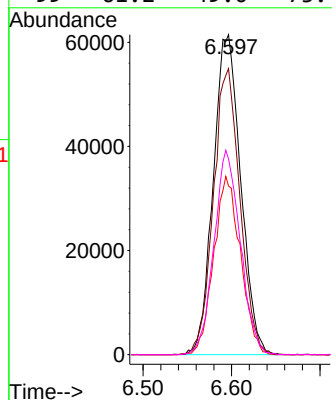
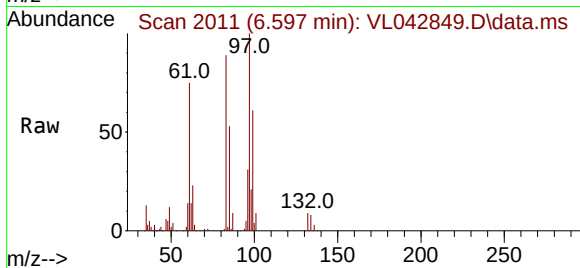
Ion Ratio Lower Upper

97 100

83 89.3 71.0 106.4

85 52.6 43.6 65.4

99 61.2 49.0 73.4



#48

Dibromochloromethane

Concen: 9.708 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042849.D

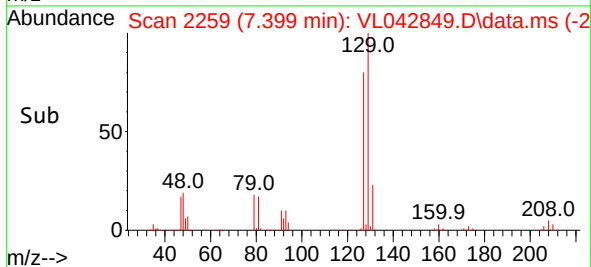
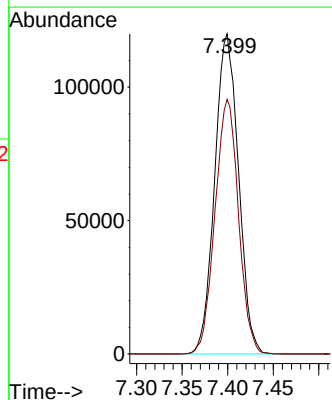
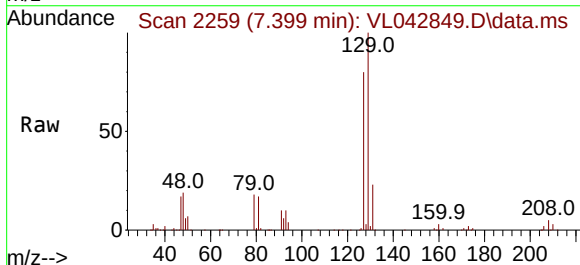
Acq: 13 Aug 2025 12:56

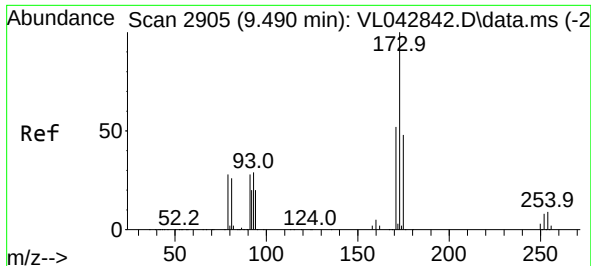
Tgt Ion: 129 Resp: 217970

Ion Ratio Lower Upper

129 100

127 78.5 39.4 118.2

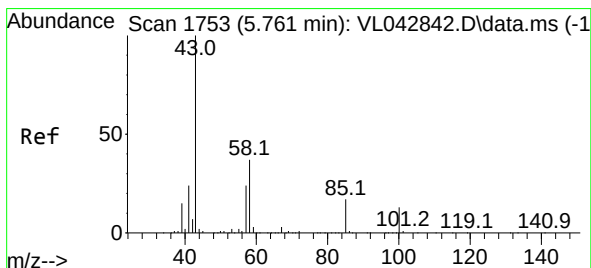
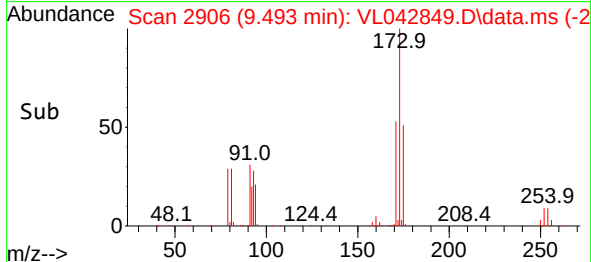
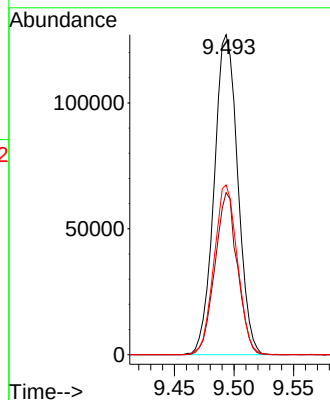
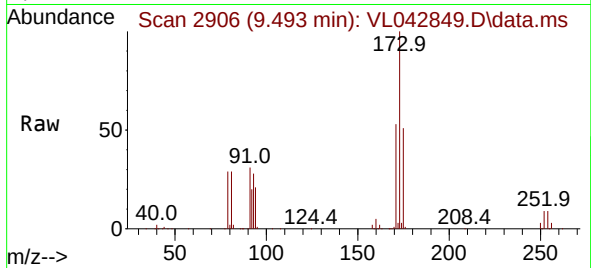




#49
Bromoform
Concen: 9.446 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

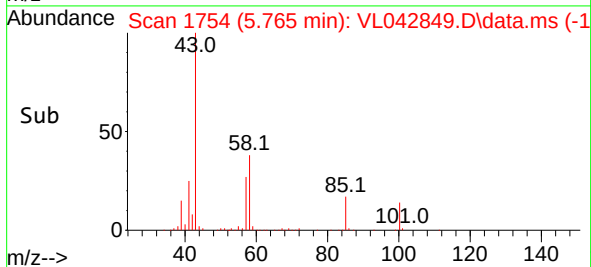
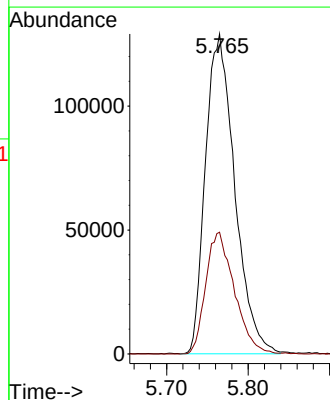
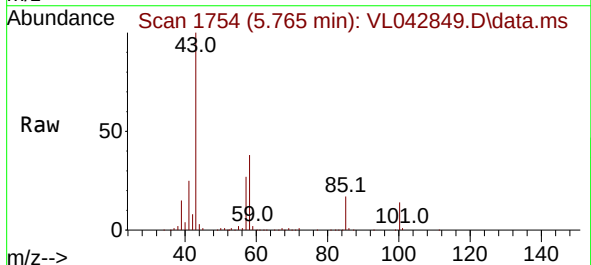
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

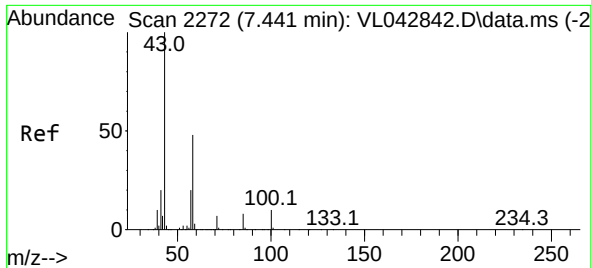
Tgt Ion:173 Resp: 174914
Ion Ratio Lower Upper
173 100
175 48.4 39.2 58.8
171 52.6 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 9.430 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 322264
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8

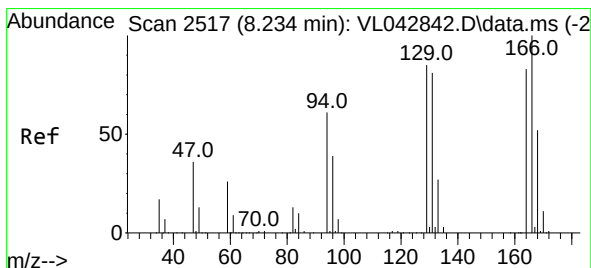
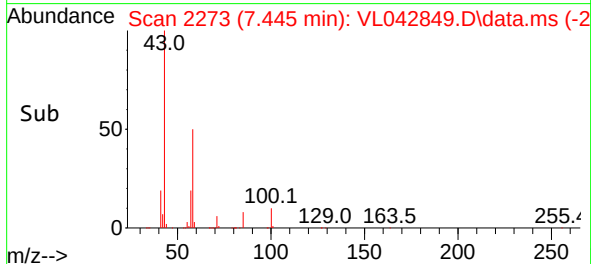
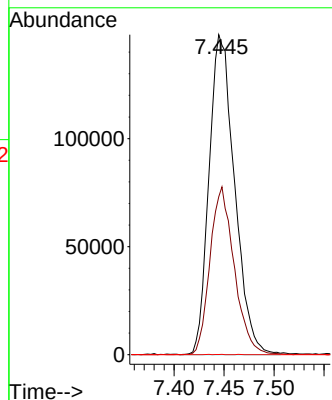
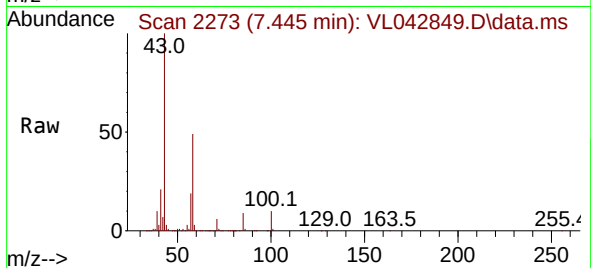




#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

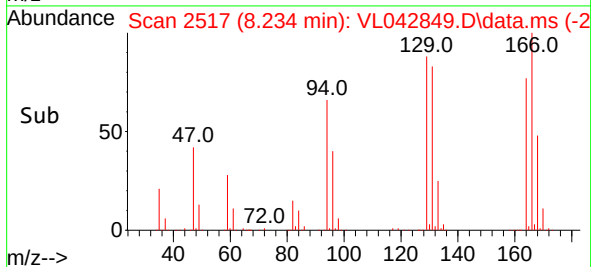
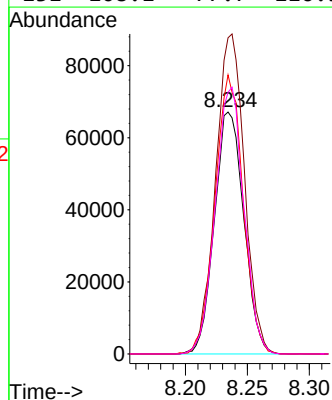
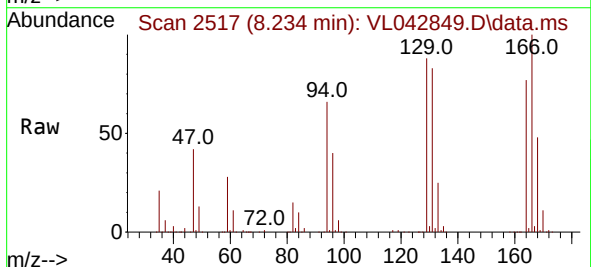
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

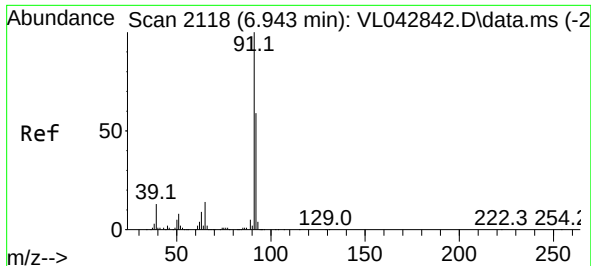
Tgt Ion: 43 Resp: 263321
Ion Ratio Lower Upper
43 100
58 49.9 41.0 61.6
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.544 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 164 Resp: 110828
Ion Ratio Lower Upper
164 100
166 130.6 96.5 144.7
129 115.3 81.8 122.6
131 108.1 77.7 116.5

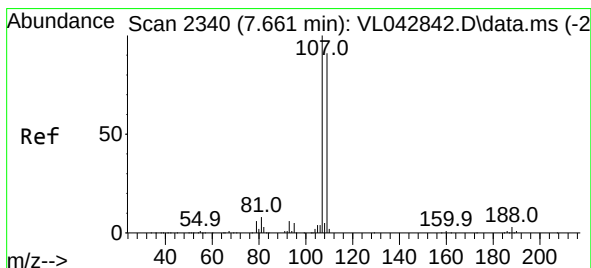
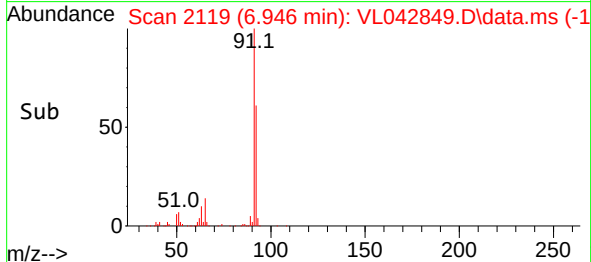
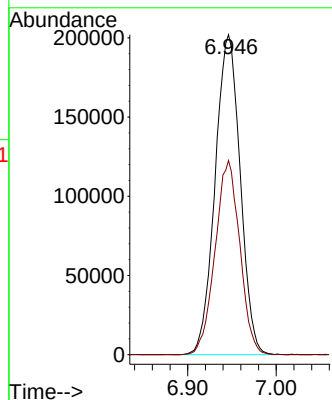
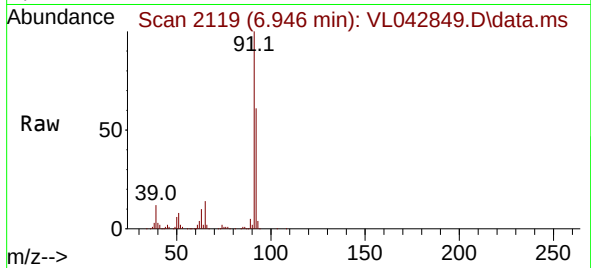




#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

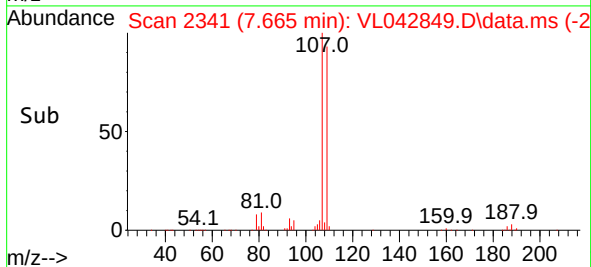
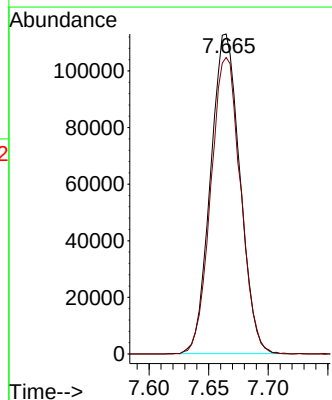
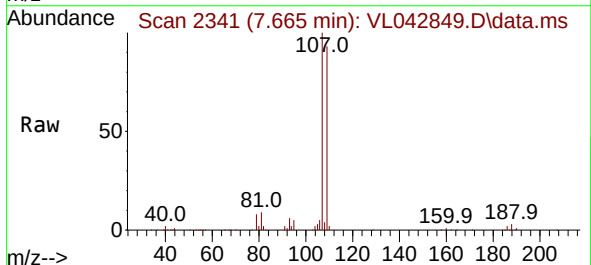
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

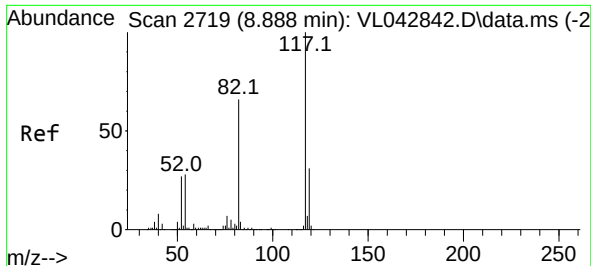
Tgt Ion: 91 Resp: 398138
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 107 Resp: 193340
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7

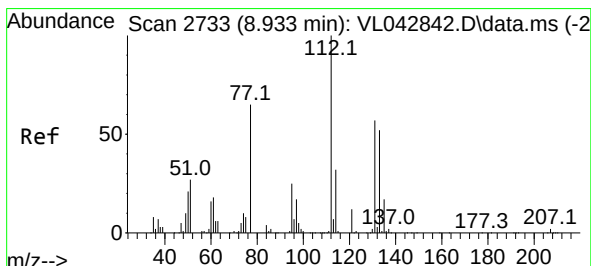
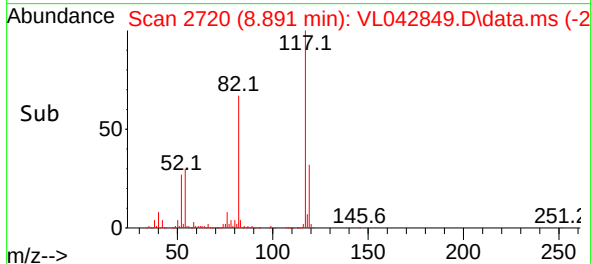
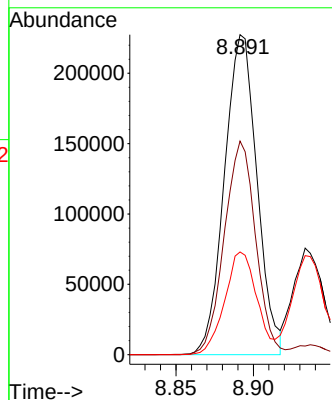
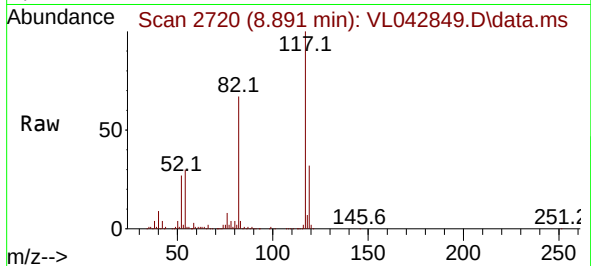




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

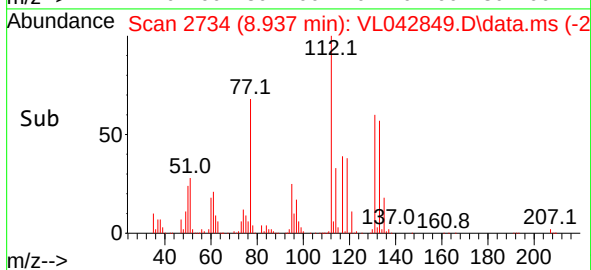
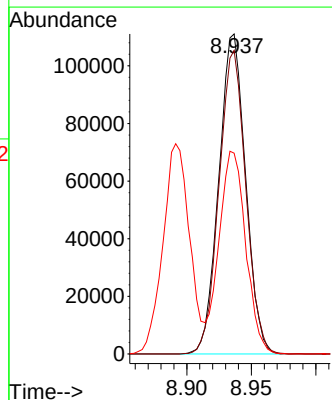
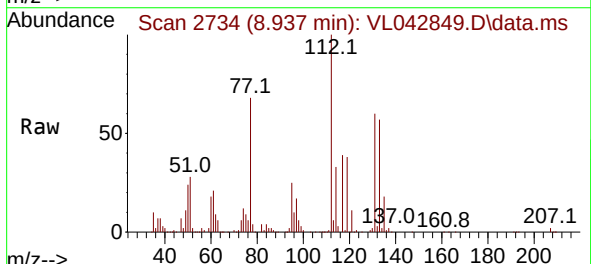
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

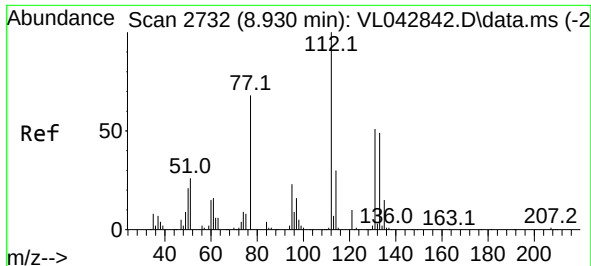
Tgt Ion:117 Resp: 333493
Ion Ratio Lower Upper
117 100
82 67.3 54.6 81.8
119 31.8 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 9.291 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:131 Resp: 160225
Ion Ratio Lower Upper
131 100
133 94.8 77.4 116.0
119 64.3 51.2 76.8

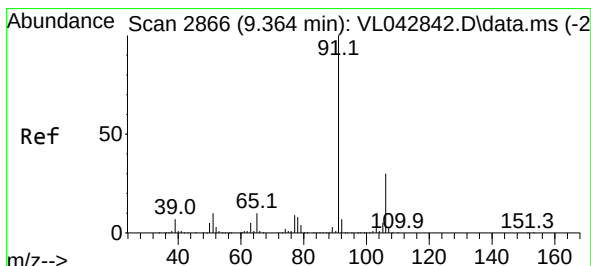
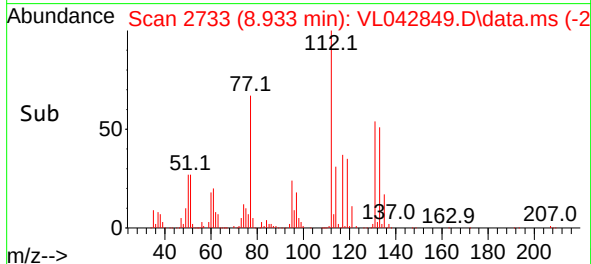
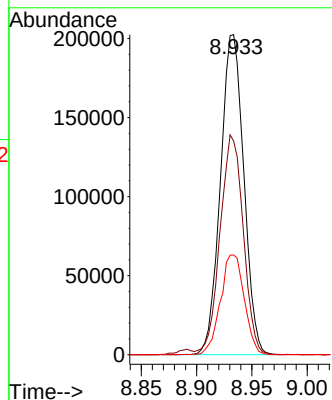
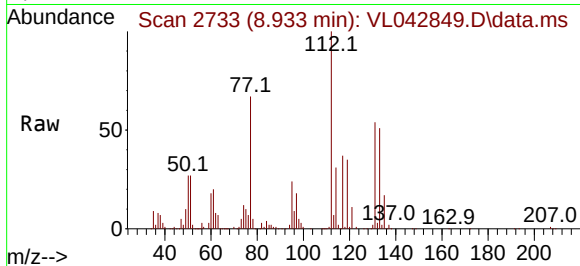




#57
Chlorobenzene
Concen: 9.378 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

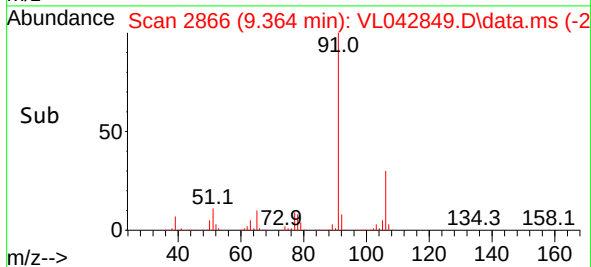
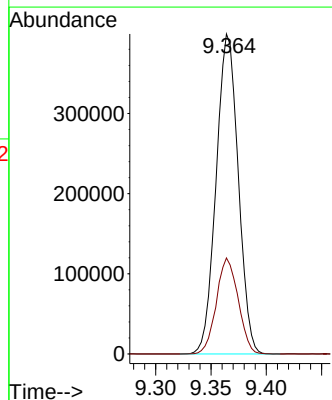
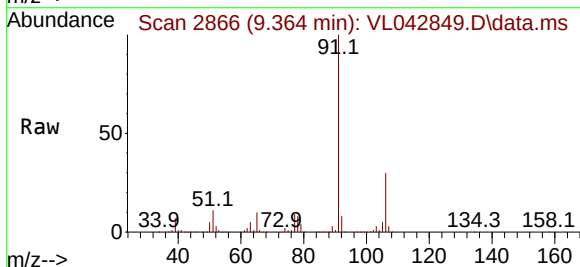
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

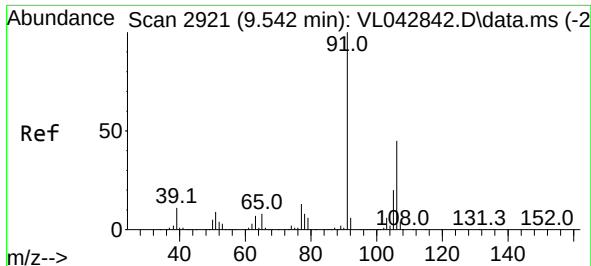
Tgt Ion:112 Resp: 297375
Ion Ratio Lower Upper
112 100
77 66.6 55.5 83.3
114 31.2 27.2 33.2



#58
Ethyl Benzene
Concen: 9.414 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 554015
Ion Ratio Lower Upper
91 100
106 30.0 23.9 35.9





#59

m/p-Xylene

Concen: 10.029 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

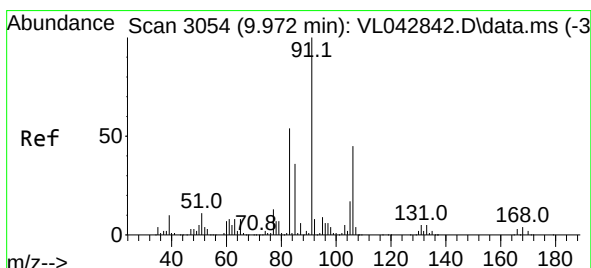
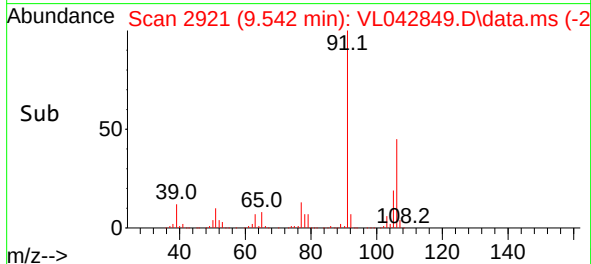
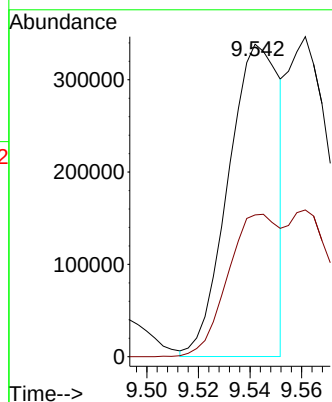
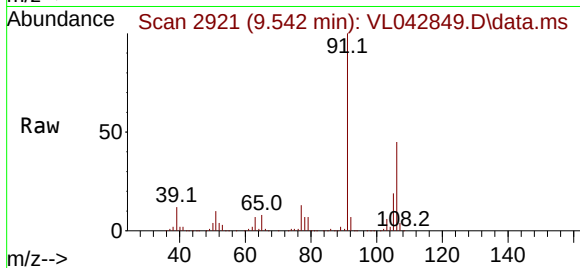
ICVVL081325

Tgt Ion: 91 Resp: 462620

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.239 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042849.D

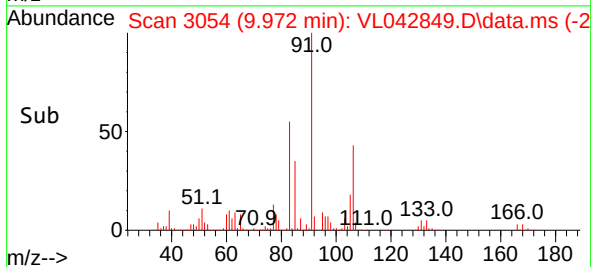
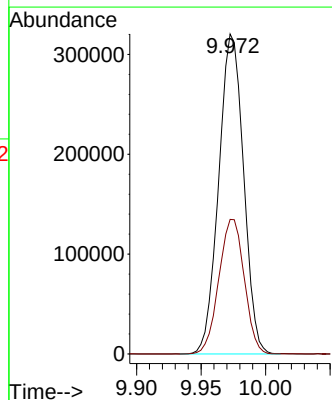
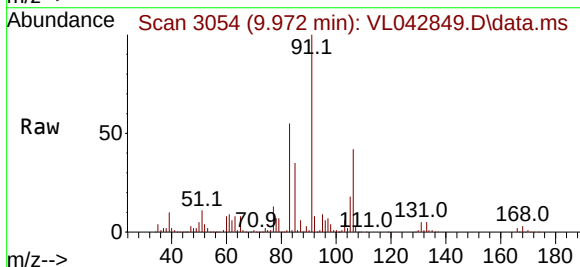
Acq: 13 Aug 2025 12:56

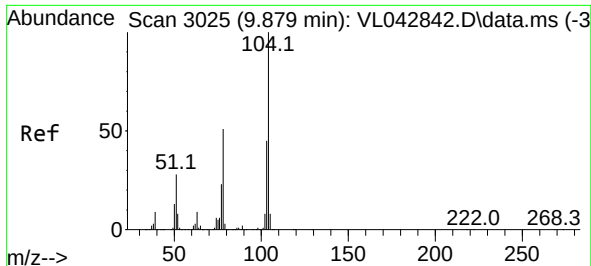
Tgt Ion: 91 Resp: 428721

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

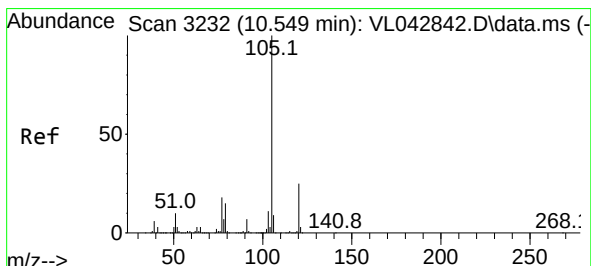
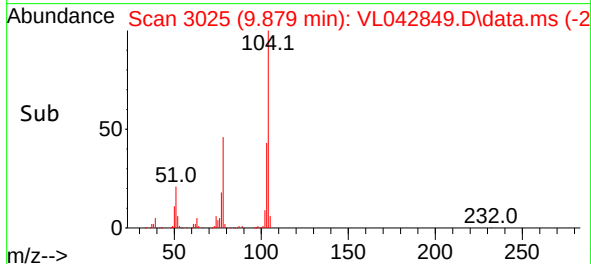
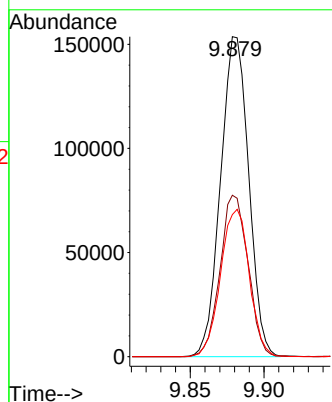
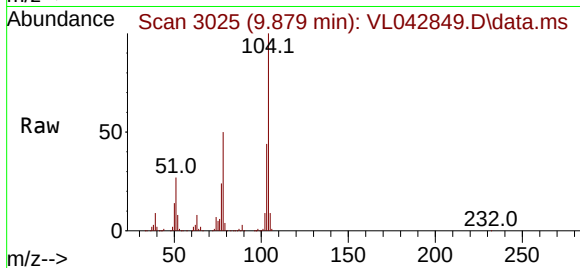




#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

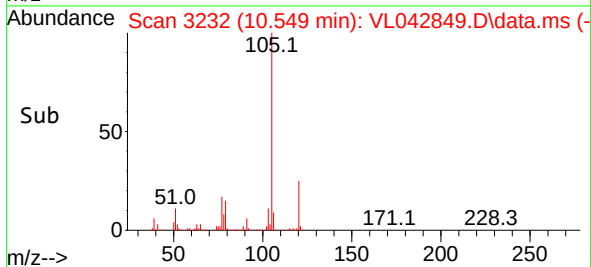
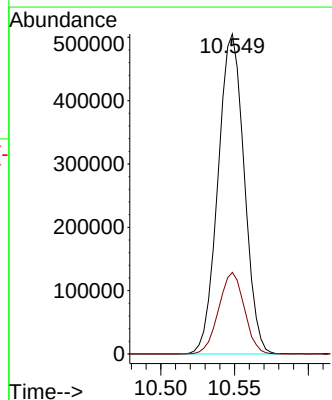
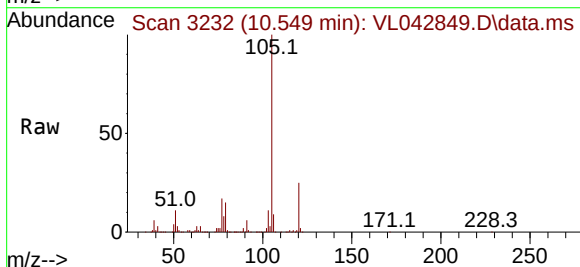
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

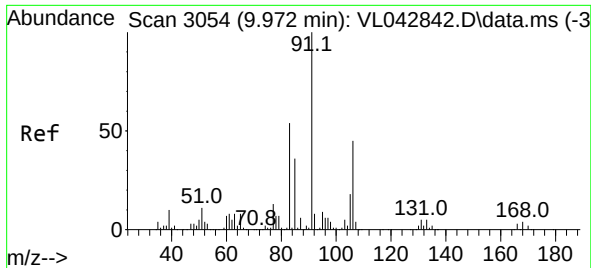
Tgt Ion:104 Resp: 203858
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 47.1 37.7 56.5



#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 624287
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8

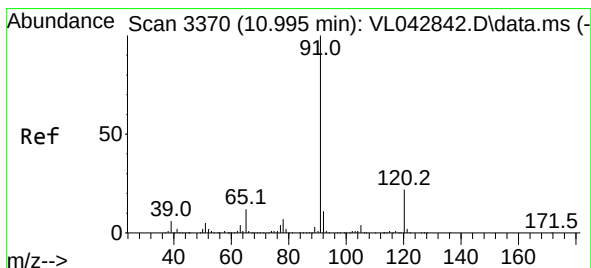
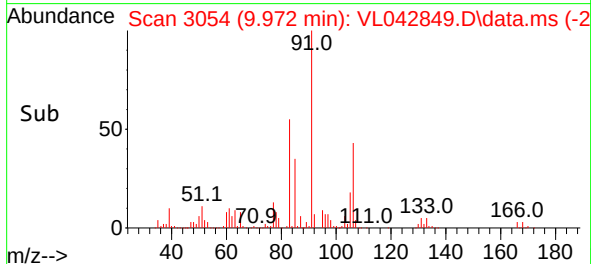
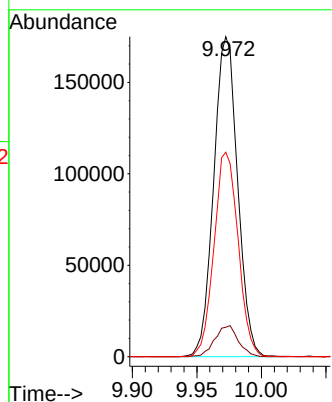
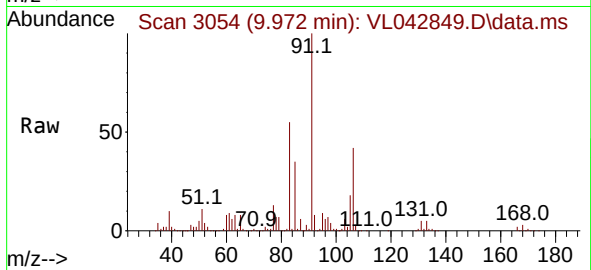




#63
1,1,2,2-Tetrachloroethane
Concen: 8.826 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

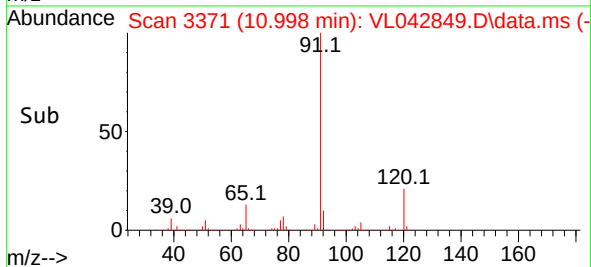
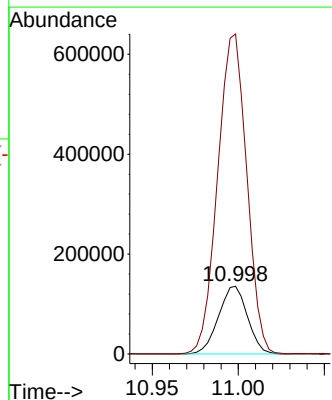
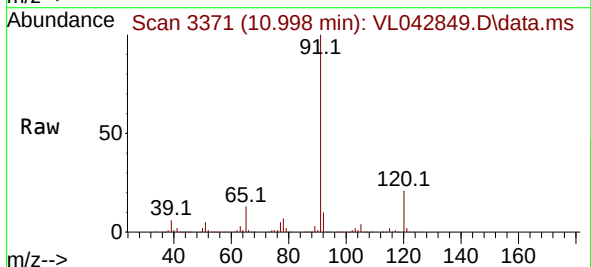
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

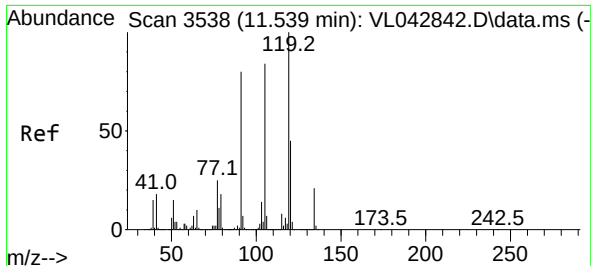
Tgt Ion: 83 Resp: 225237
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.4 32.3 96.8



#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 120 Resp: 158234
Ion Ratio Lower Upper
120 100
91 476.9 375.8 563.6

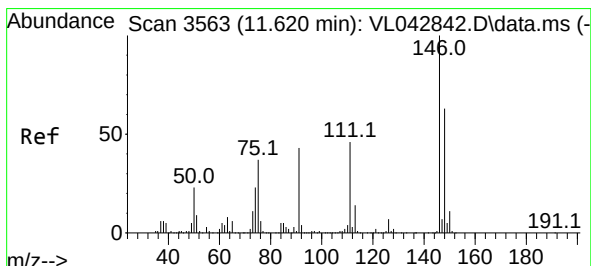
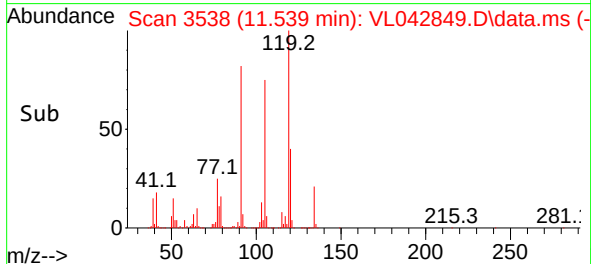
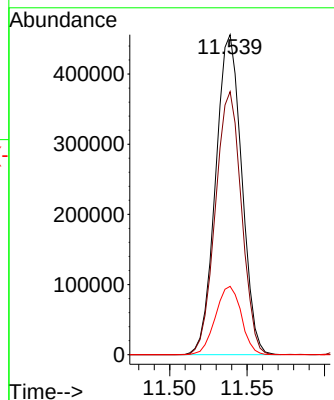
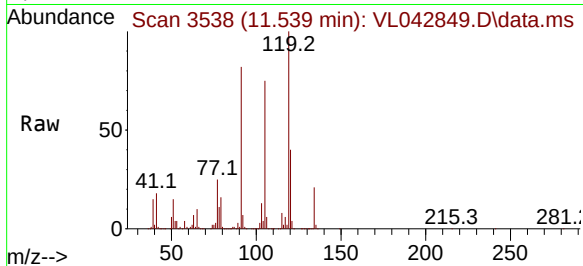




#65
 tert-Butylbenzene
 Concen: 8.946 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

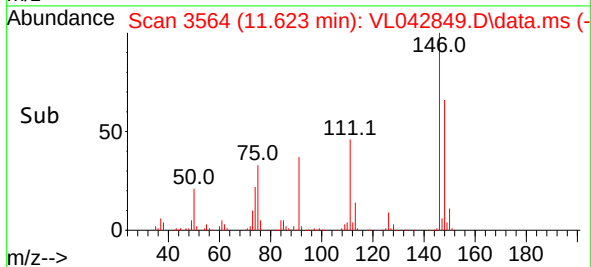
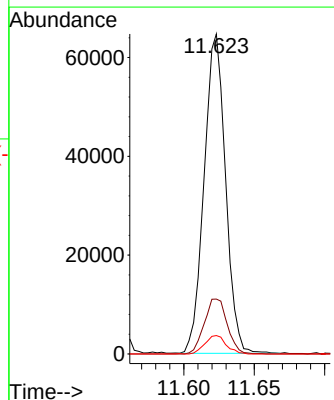
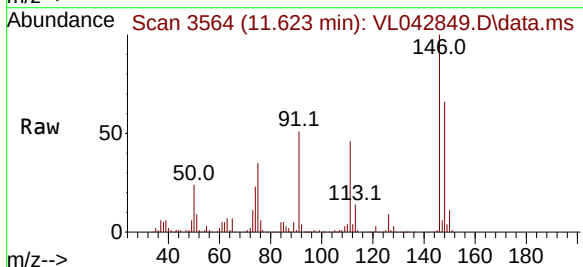
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

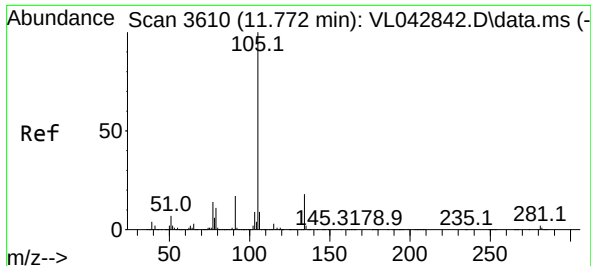
Tgt Ion:119 Resp: 534795
 Ion Ratio Lower Upper
 119 100
 91 82.2 63.9 95.9
 134 21.1 17.0 25.4



#66
 Benzyl Chloride
 Concen: 9.031 ppbv
 RT: 11.623 min Scan# 3564
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 68533
 Ion Ratio Lower Upper
 91 100
 126 18.4 14.2 21.4
 128 5.7 5.0 7.6

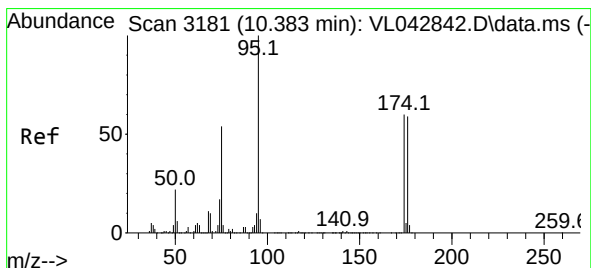
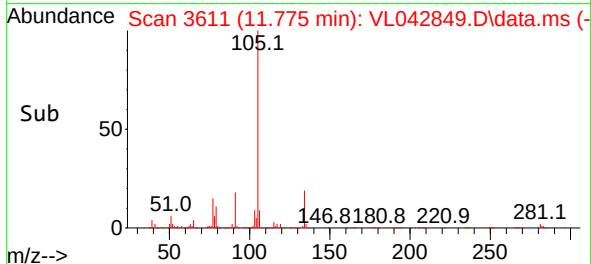
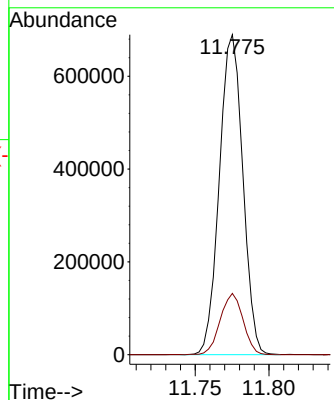
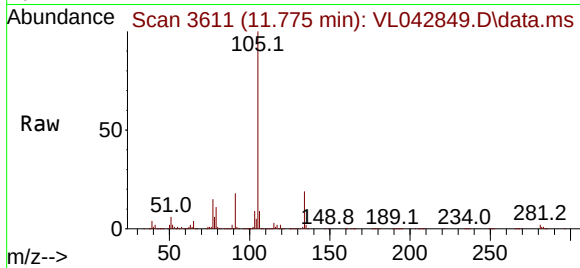




#67
 sec-Butylbenzene
 Concen: 9.088 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

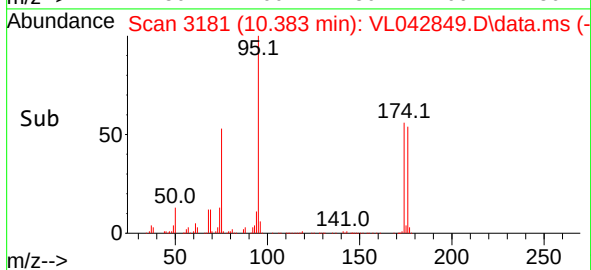
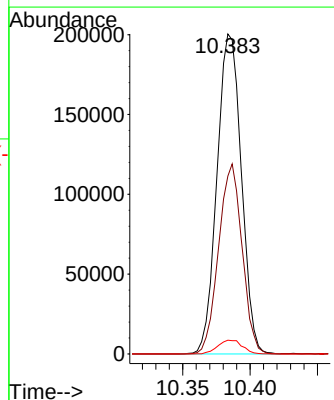
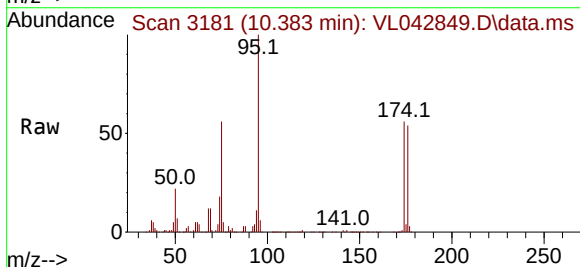
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL081325

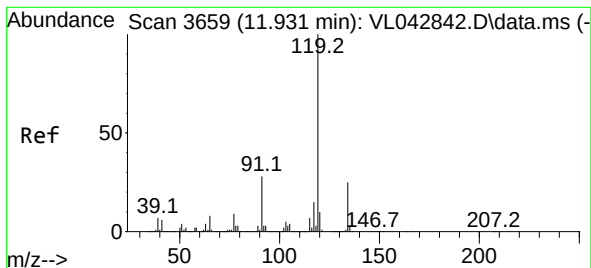
Tgt Ion:105 Resp: 762602
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.086 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 95 Resp: 252268
 Ion Ratio Lower Upper
 95 100
 174 57.2 48.4 72.6
 175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 8.810 ppbv

RT: 11.934 min Scan# 3660

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

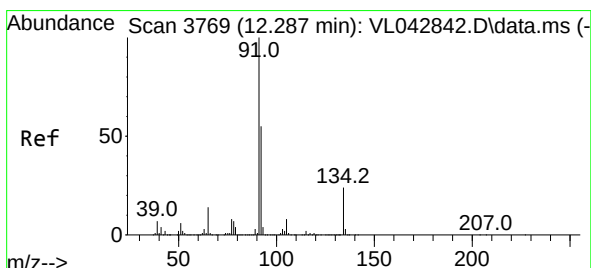
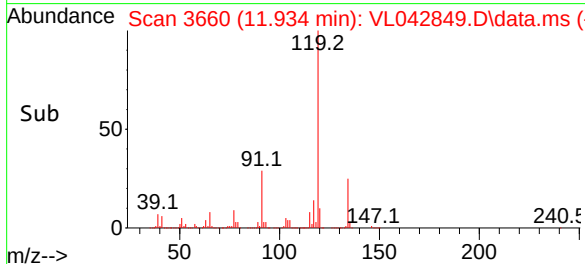
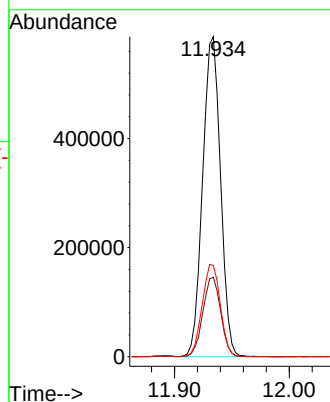
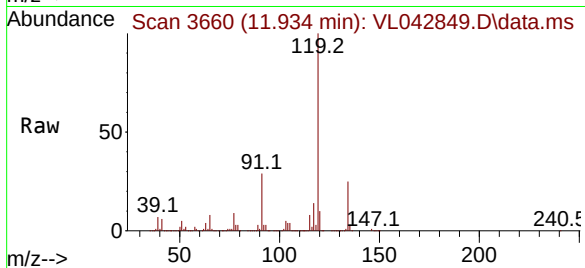
Tgt Ion:119 Resp: 634670

Ion Ratio Lower Upper

119 100

134 24.9 20.6 30.8

91 29.4 22.6 34.0



#70

n-Butylbenzene

Concen: 9.062 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

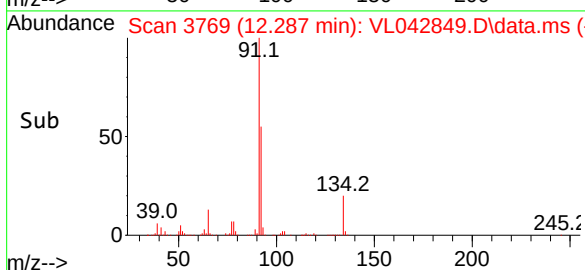
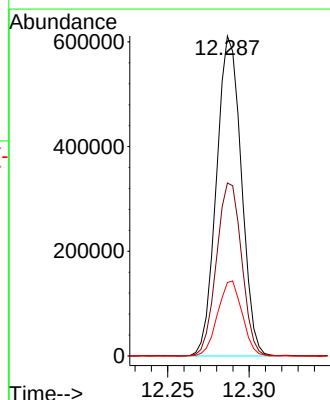
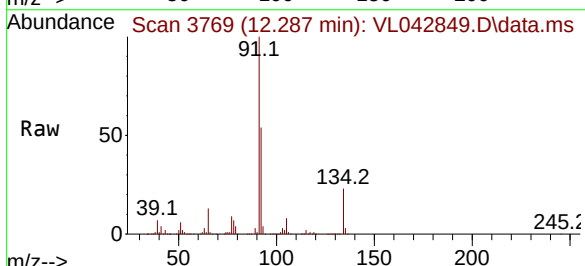
Tgt Ion: 91 Resp: 647453

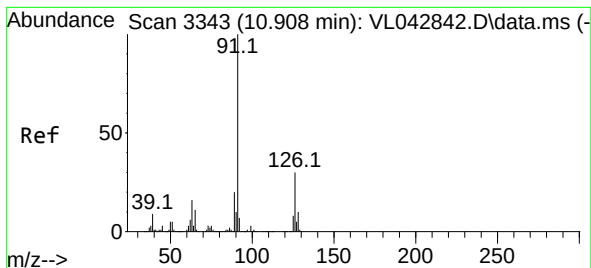
Ion Ratio Lower Upper

91 100

92 54.8 44.6 66.8

134 23.1 19.0 28.4

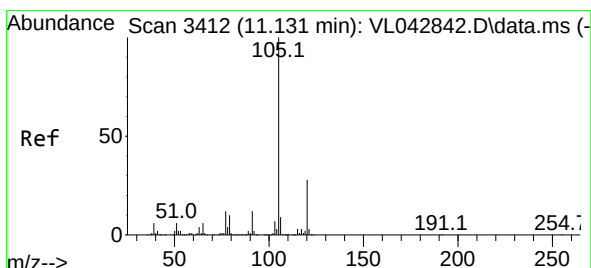
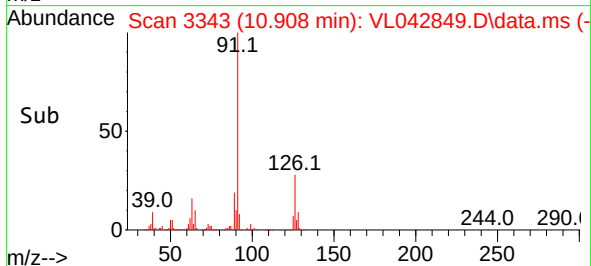
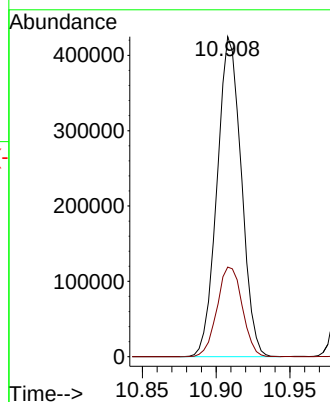
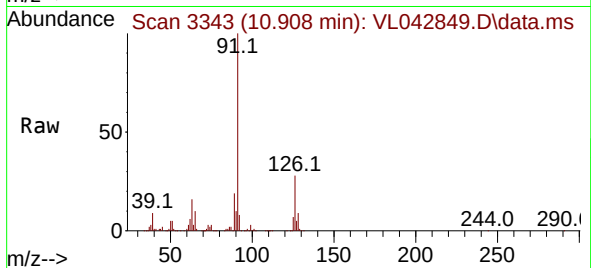




#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

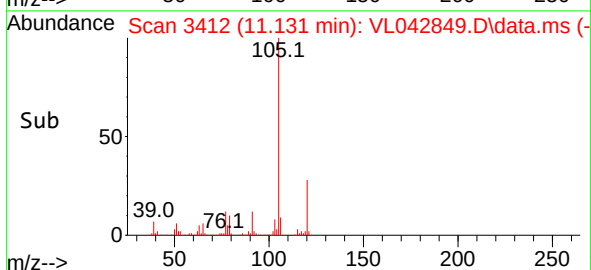
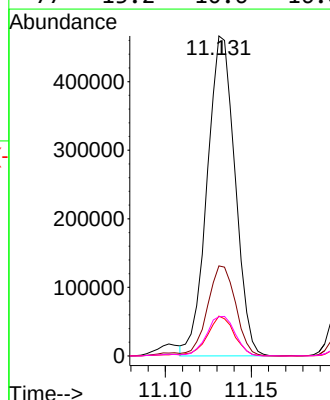
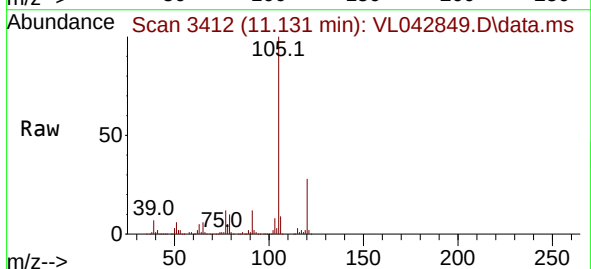
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

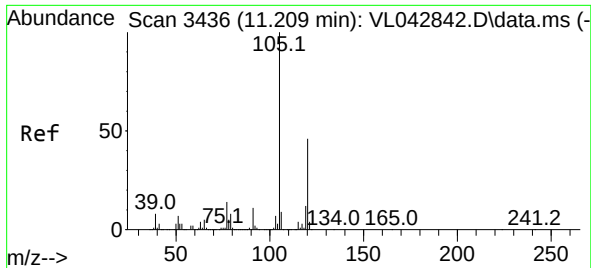
Tgt Ion: 91 Resp: 485171
Ion Ratio Lower Upper
91 100
126 29.1 12.0 47.8



#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 105 Resp: 525262
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.2
91 12.5 9.8 14.6
77 13.2 10.6 16.0

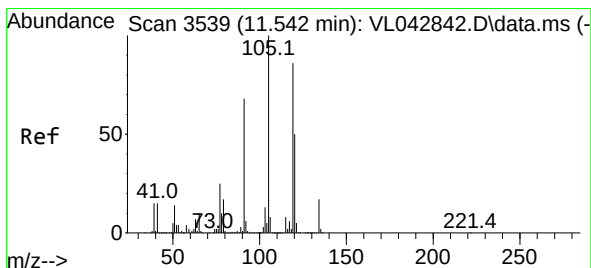
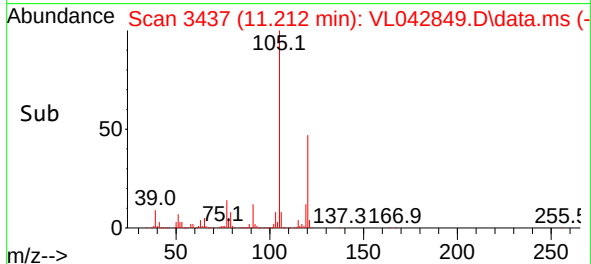
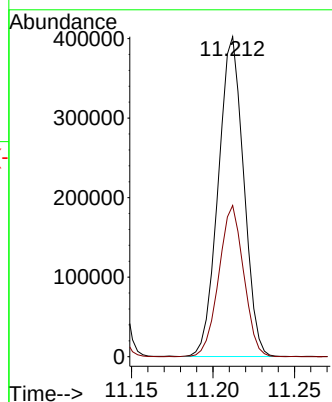
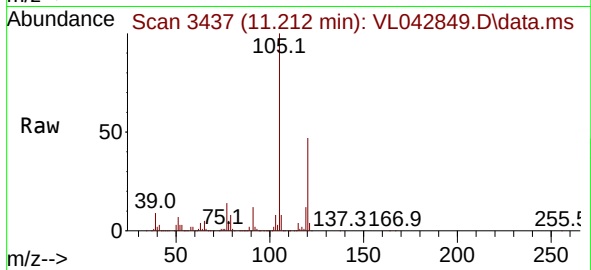




#73
 1,3,5-Trimethylbenzene
 Concen: 9.108 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

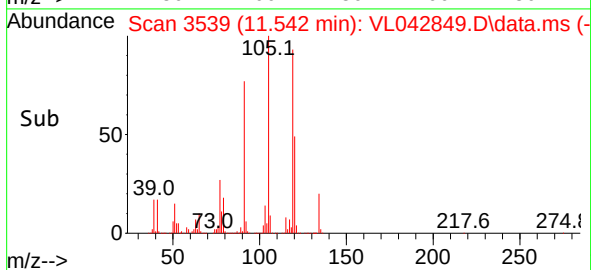
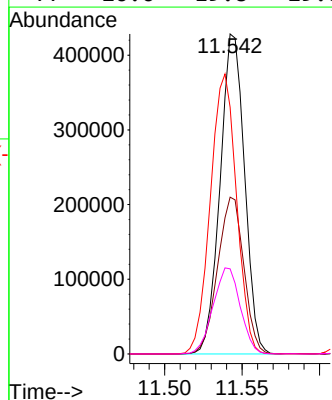
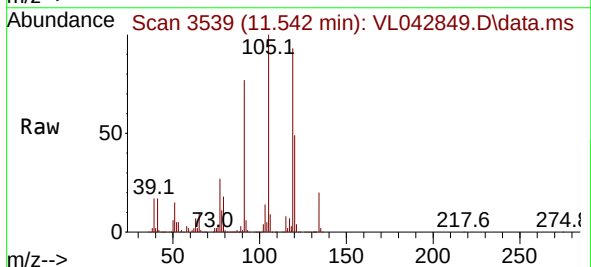
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL081325

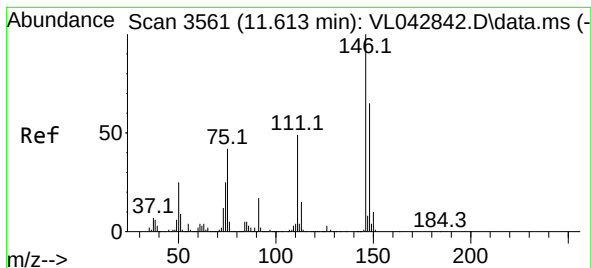
Tgt Ion:105 Resp: 435705
 Ion Ratio Lower Upper
 105 100
 120 47.2 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 8.943 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 469573
 Ion Ratio Lower Upper
 105 100
 120 49.0 39.8 59.6
 91 77.0 54.2 81.4
 77 26.6 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.209 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

ICVVL081325

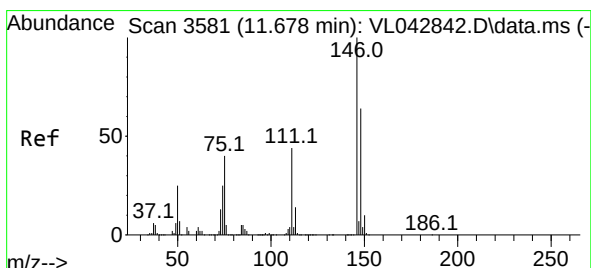
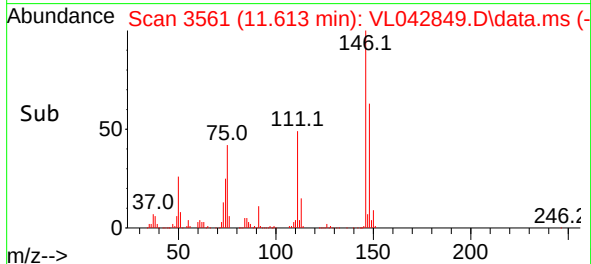
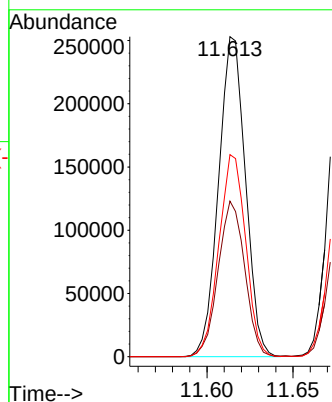
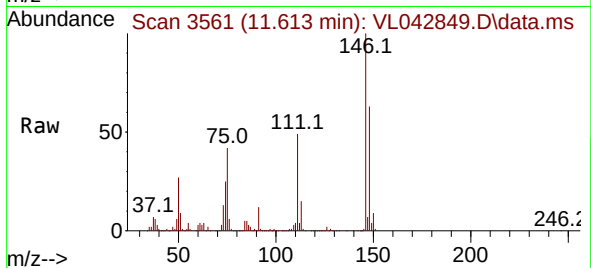
Tgt Ion:146 Resp: 274876

Ion Ratio Lower Upper

146 100

111 48.2 23.9 71.7

148 63.0 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 8.976 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

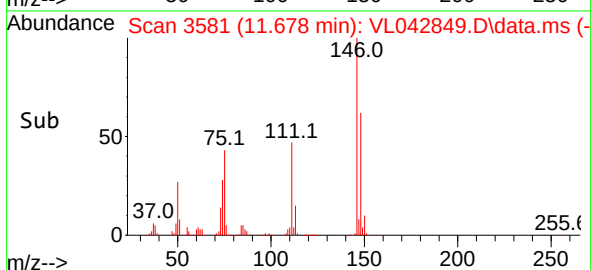
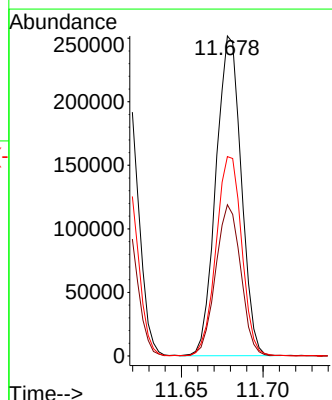
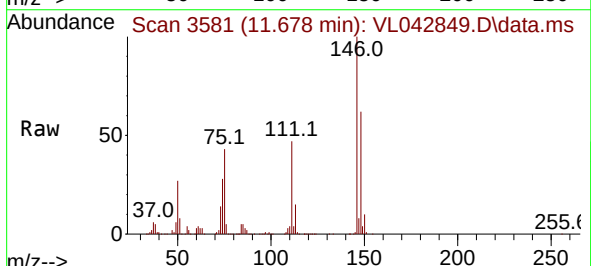
Tgt Ion:146 Resp: 270976

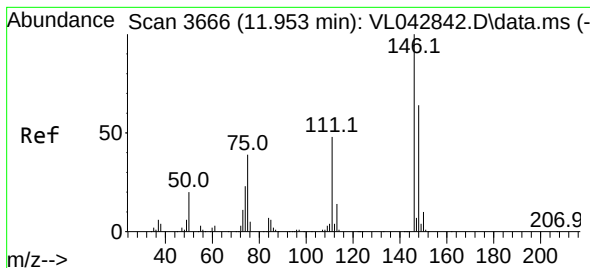
Ion Ratio Lower Upper

146 100

111 47.2 22.7 68.1

148 63.6 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.736 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

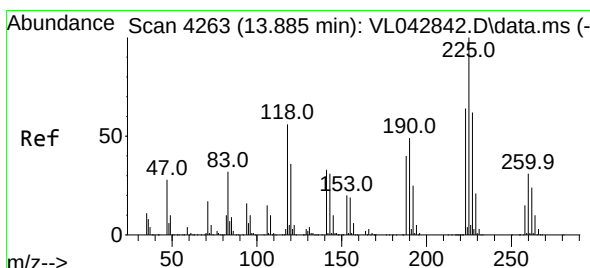
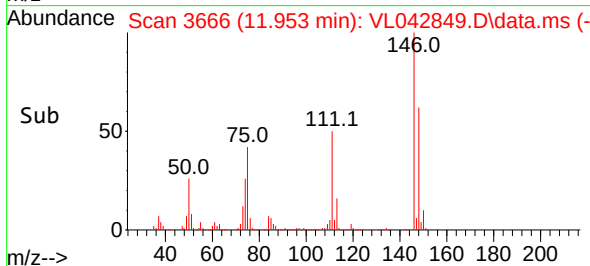
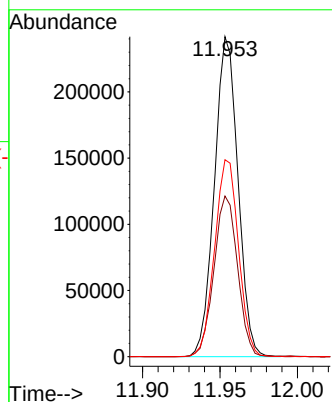
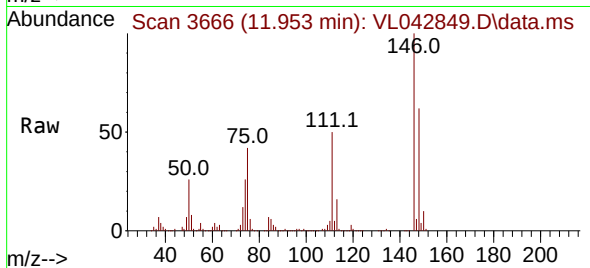
Tgt Ion:146 Resp: 255347

Ion Ratio Lower Upper

146 100

111 50.5 24.6 74.0

148 62.7 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 7.778 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

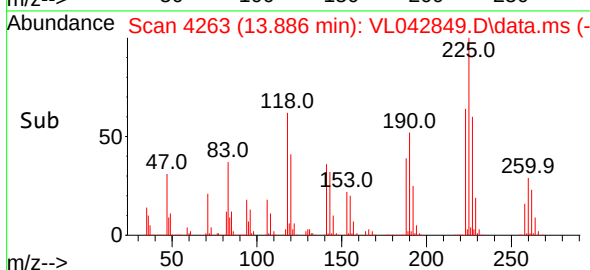
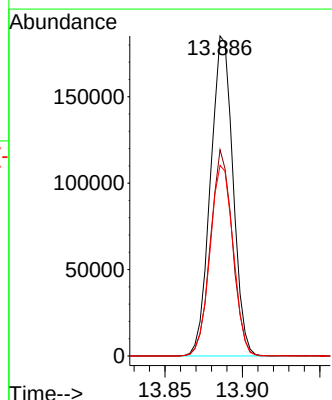
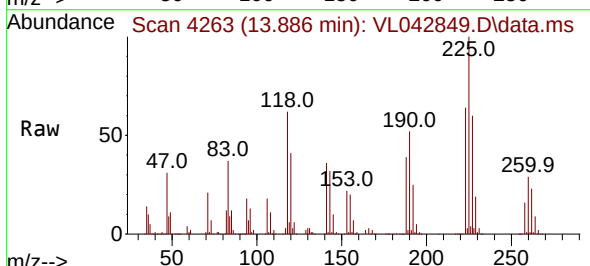
Tgt Ion:225 Resp: 186318

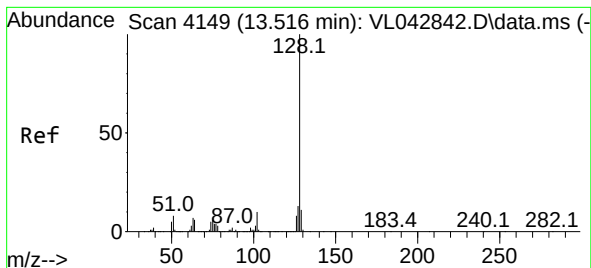
Ion Ratio Lower Upper

225 100

223 62.9 51.4 77.2

227 61.6 51.9 77.9





#79

Naphthalene

Concen: 9.284 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

ICVVL081325

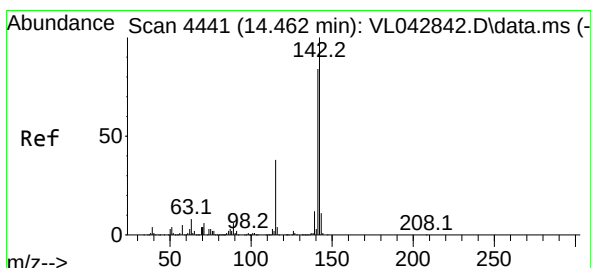
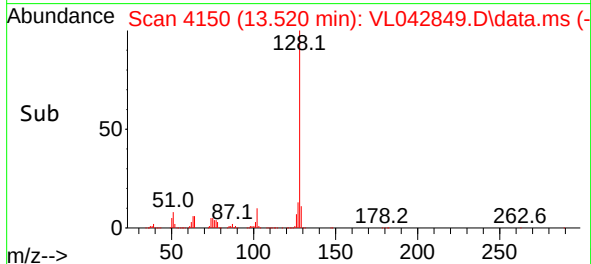
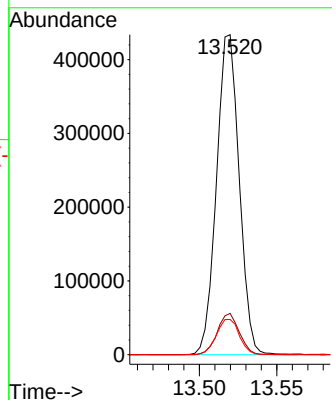
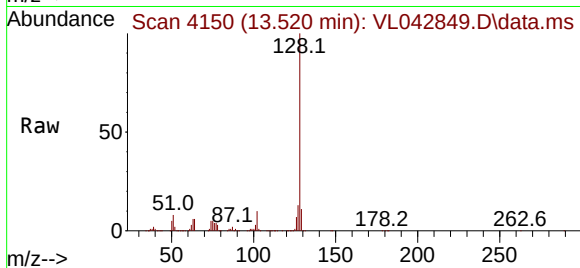
Tgt Ion:128 Resp: 441940

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 11.0 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 8.188 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

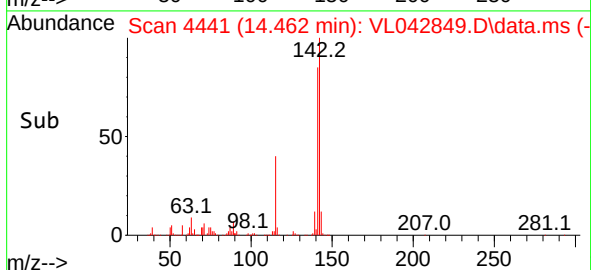
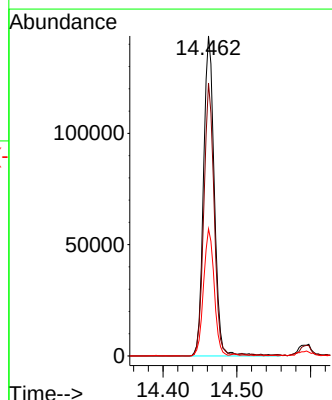
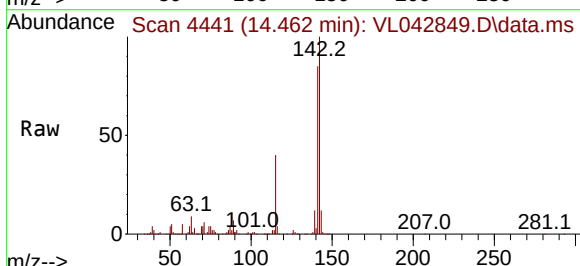
Tgt Ion:142 Resp: 145644

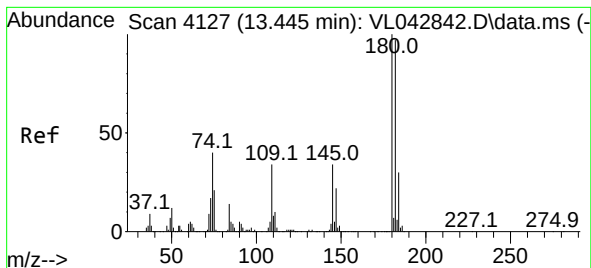
Ion Ratio Lower Upper

142 100

141 81.9 67.0 100.6

115 40.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 9.016 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042849.D

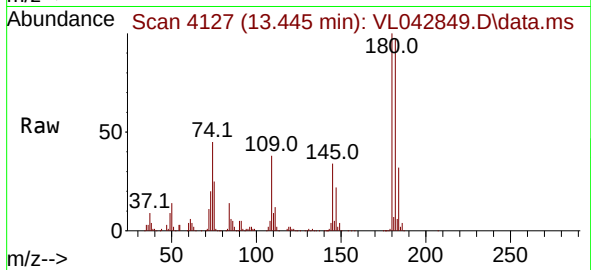
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325



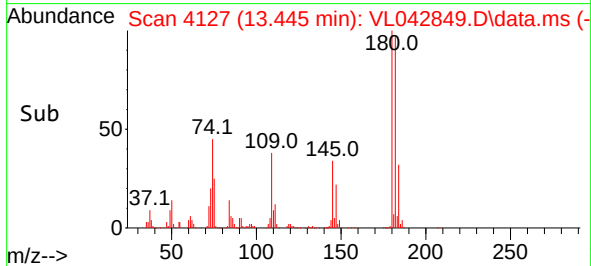
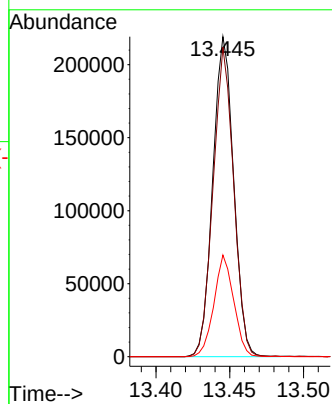
Tgt Ion:180 Resp: 215715

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

184 30.1 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	126678	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	333606	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	282770	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	222314	10.483	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	195136	10.511	ppbv	100
3) Chlorodifluoromethane	1.470	51	223887	10.910	ppbv	98
4) Chloromethane	1.528	50	74830	9.988	ppbv	99
5) Vinyl Chloride	1.577	62	70899	9.609	ppbv	99
6) Bromomethane	1.664	94	28498	9.659	ppbv	99
7) Chloroethane	1.700	64	28496	9.889	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	158303	10.420	ppbv	96
9) Propene	1.476	41	88702	10.009	ppbv	99
10) Heptane	4.959	43	234952	9.898	ppbv	98
11) Trichlorofluoromethane	1.871	101	188309	10.280	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	147287	10.089	ppbv	96
13) Ethanol	1.716	45	6525	8.052	ppbv	98
14) Bromoethene	1.777	108	53755	10.171	ppbv	99
15) Acetone	1.829	43	145289	8.670	ppbv	98
16) 1,3-Butadiene	1.602	39	70713	9.308	ppbv	100
17) tert-Butyl alcohol	2.033	59	170394	8.574	ppbv	99
18) 1,1-Dichloroethene	2.026	96	63544	9.900	ppbv	94
19) Isopropyl Alcohol	1.881	45	89009	8.893	ppbv	95
20) Methylene Chloride	2.056	84	57698	8.219	ppbv	93
21) Allyl Chloride	2.088	41	114332	9.658	ppbv	94
22) trans-1,2-Dichloroethene	2.331	96	74045	9.971	ppbv	93
23) Vinyl Acetate	2.454	43	228268	9.907	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	152618	10.291	ppbv	99
25) Ethyl Acetate	2.826	43	415386	10.242	ppbv	99
26) Hexane	2.816	57	187779	10.031	ppbv	95
27) Carbon Disulfide	2.143	76	193262	10.608	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	85774	8.986	ppbv	93
29) Chloroform	2.839	83	281659	10.538	ppbv	98
30) Cyclohexane	3.842	84	153066	9.326	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	182592	9.765	ppbv	99
32) 1,1,1-Trichloroethane	3.357	97	271429	9.609	ppbv	96
34) 2-Butanone	2.548	43	272735	12.107	ppbv	98
35) Carbon Tetrachloride	3.748	117	269097	11.700	ppbv	99
36) Benzene	3.645	78	366027	11.458	ppbv	97
37) 1,2-Dichloroethane	3.208	62	211728	12.686	ppbv	98
38) Trichloroethene	4.532	130	151915	10.413	ppbv	95
39) 1,2-Dichloropropane	4.299	63	139657	11.970	ppbv	96
40) 1,4-Dioxane	4.561	88	56013	10.096	ppbv #	88
41) Tetrahydrofuran	3.043	42	148990	11.863	ppbv	96
42) Bromodichloromethane	4.473	83	301814	12.136	ppbv	98
43) Methyl Methacrylate	4.859	69	141813	10.776	ppbv	95
44) 2,2,4-Trimethylpentane	4.622	57	631245	11.642	ppbv	99
45) t-1,3-Dichloropropene	6.393	75	154622	10.411	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

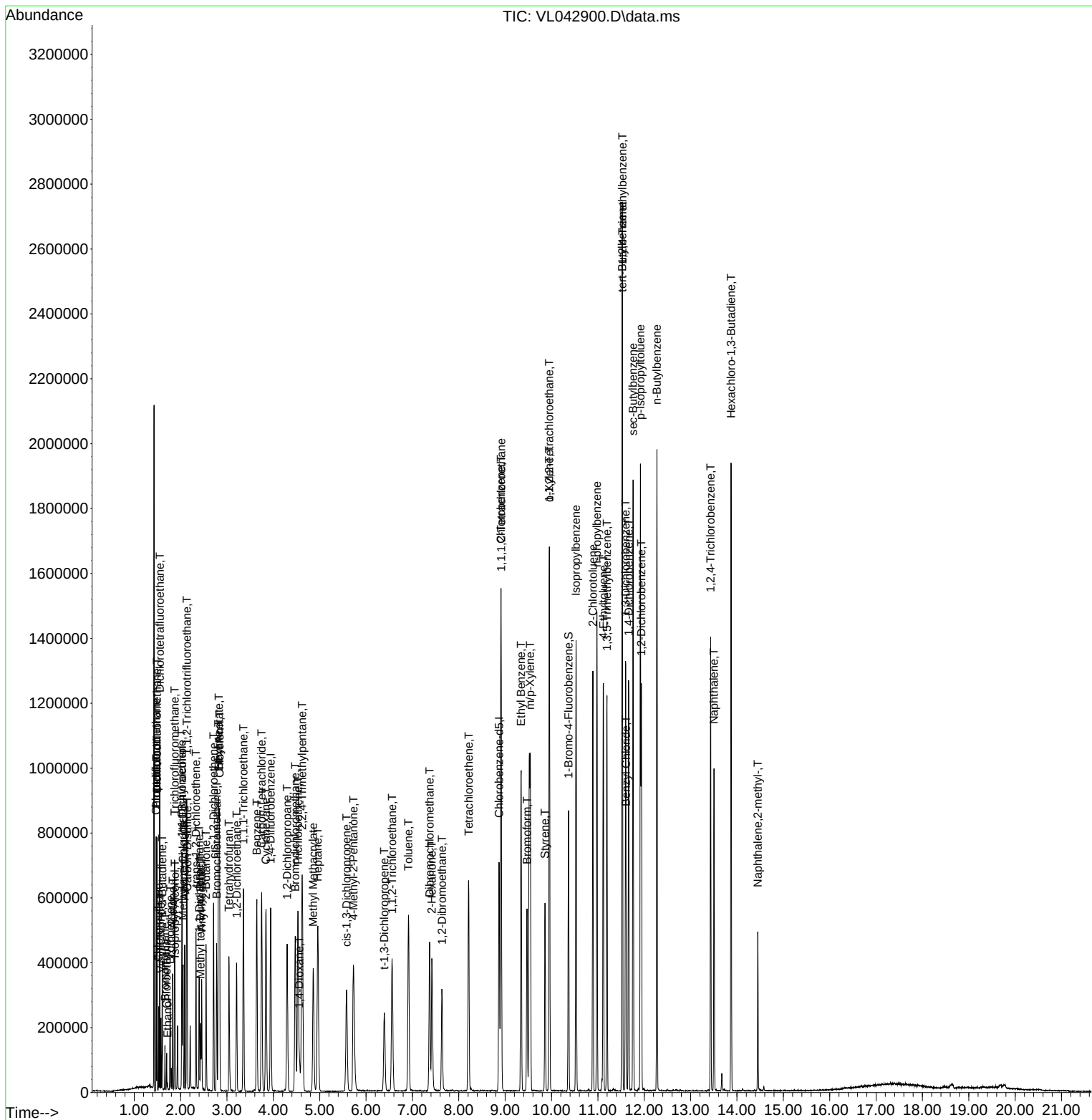
Instrument :
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 ClientSampleId :
 VSTDCCC010

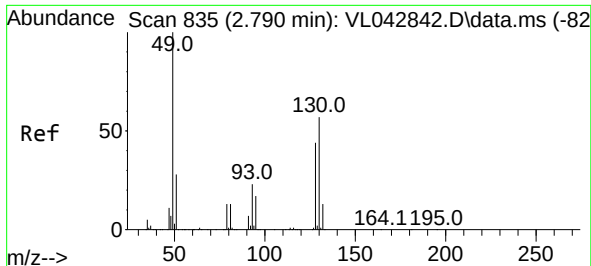
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv	98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv	98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv	100
49) Bromoform	9.471	173	184068	11.158	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	359329	11.801	ppbv	96
51) 2-Hexanone	7.419	43	284454	11.872	ppbv #	95
52) Tetrachloroethene	8.212	164	110334	9.547	ppbv	98
53) Toluene	6.914	91	402080	10.587	ppbv	100
54) 1,2-Dibromoethane	7.636	107	204276	11.307	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.914	131	170319	11.648	ppbv	99
57) Chlorobenzene	8.911	112	311373	11.581	ppbv	97
58) Ethyl Benzene	9.345	91	558102	11.184	ppbv	99
59) m/p-Xylene	9.539	91	468620	11.981	ppbv #	100
60) o-Xylene	9.953	91	460968	11.716	ppbv	100
61) Styrene	9.859	104	195007	10.579	ppbv	99
62) Isopropylbenzene	10.529	105	655164	11.394	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.953	83	266435	12.314	ppbv	100
64) n-propylbenzene	10.979	120	164610	11.220	ppbv	90
65) tert-Butylbenzene	11.523	119	561409	11.075	ppbv	97
66) Benzyl Chloride	11.607	91	50803	7.895	ppbv #	98
67) sec-Butylbenzene	11.759	105	833114	11.709	ppbv	98
69) p-Isopropyltoluene	11.918	119	667558	10.929	ppbv	99
70) n-Butylbenzene	12.274	91	711012	11.736	ppbv	98
71) 2-Chlorotoluene	10.892	91	498072	11.156	ppbv	97
72) 4-Ethyltoluene	11.118	105	554411	11.624	ppbv	98
73) 1,3,5-Trimethylbenzene	11.196	105	450409	11.105	ppbv	98
74) 1,2,4-Trimethylbenzene	11.529	105	508605	11.424	ppbv	95
75) 1,3-Dichlorobenzene	11.597	146	289650	11.445	ppbv	99
76) 1,4-Dichlorobenzene	11.662	146	287352	11.226	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	281307	11.351	ppbv	99
78) Hexachloro-1,3-Butadiene	13.873	225	167893	8.266	ppbv	99
79) Naphthalene	13.504	128	428355	10.613	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	127751	8.470	ppbv	96
81) 1,2,4-Trichlorobenzene	13.432	180	207455	10.226	ppbv	99

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

Quant Time: Sep 09 00:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
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QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

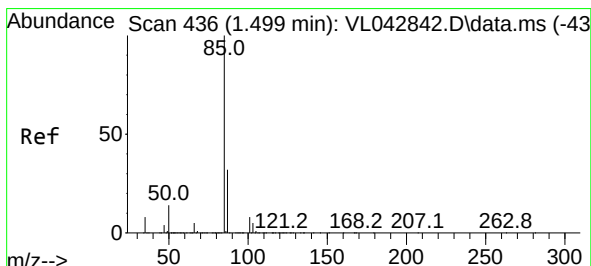
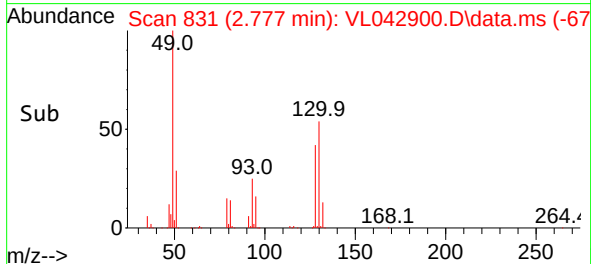
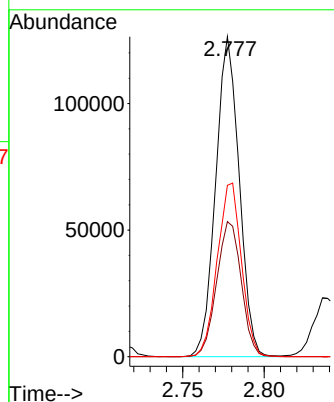
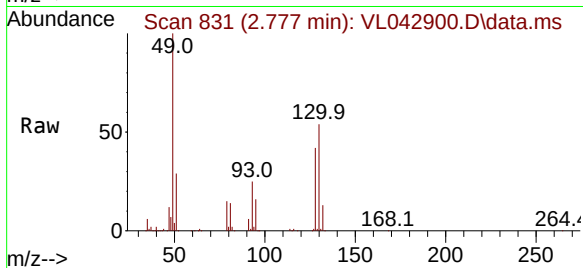




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.777 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

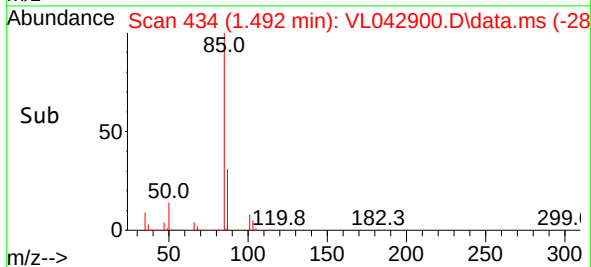
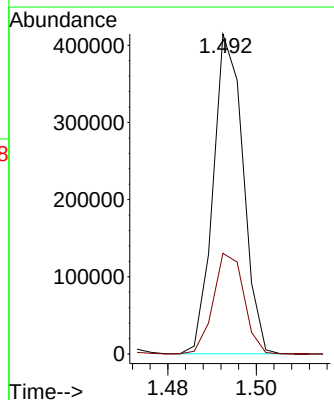
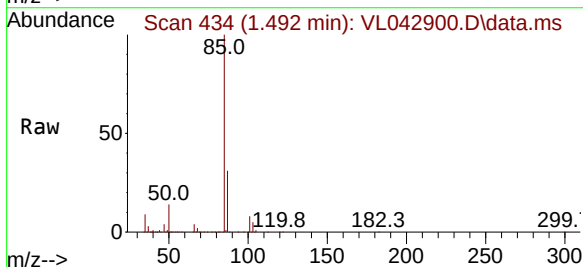
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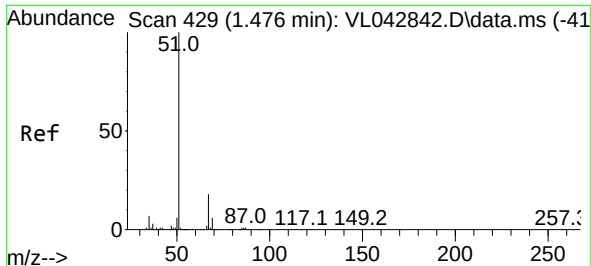
Tgt Ion: 49 Resp: 126678
 Ion Ratio Lower Upper
 49 100
 128 44.1 23.7 71.1
 130 55.7 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 10.511 ppbv
 RT: 1.492 min Scan# 434
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 195136
 Ion Ratio Lower Upper
 85 100
 87 31.4 25.3 37.9

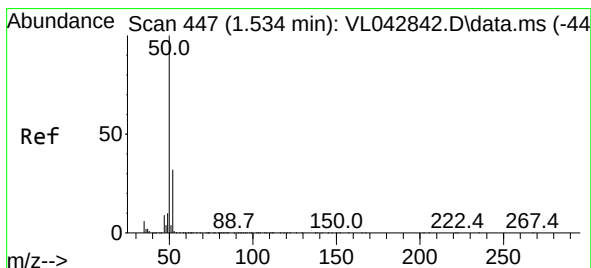
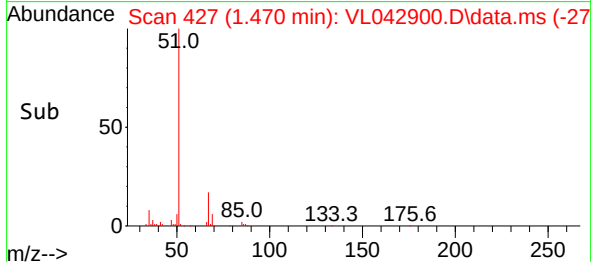
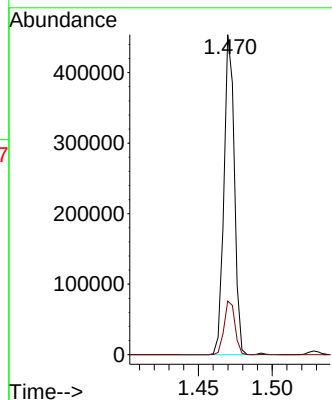
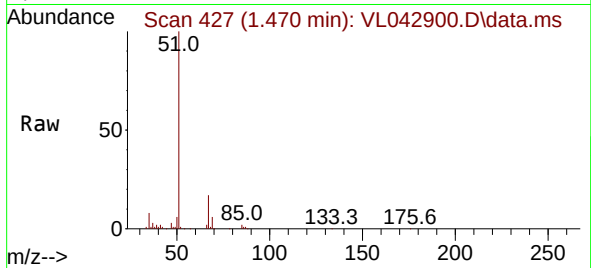




#3
Chlorodifluoromethane
Concen: 10.910 ppbv
RT: 1.470 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

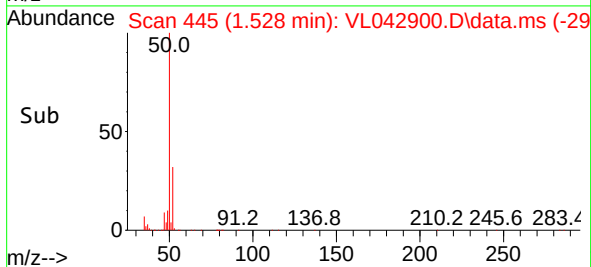
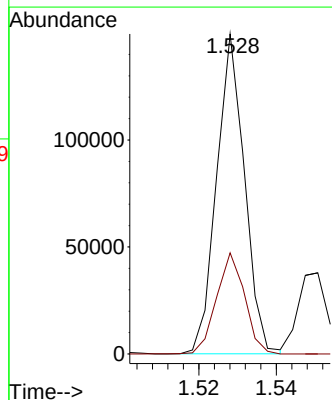
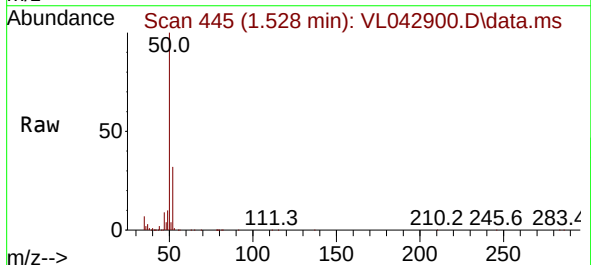
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ClientSampleId :
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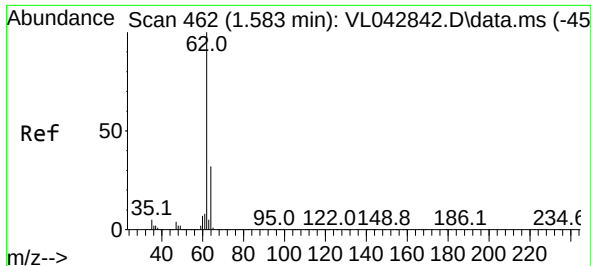
Tgt Ion: 51 Resp: 223887
Ion Ratio Lower Upper
51 100
67 17.5 14.9 22.3



#4
Chloromethane
Concen: 9.988 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 50 Resp: 74830
Ion Ratio Lower Upper
50 100
52 31.6 25.9 38.9

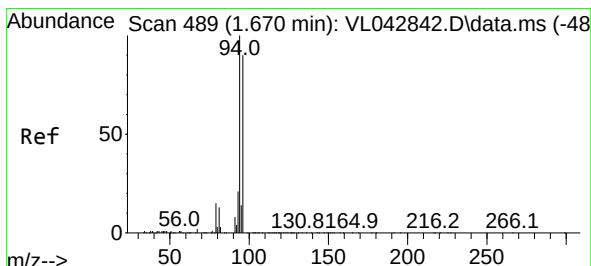
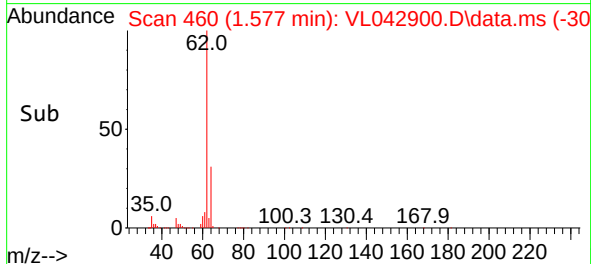
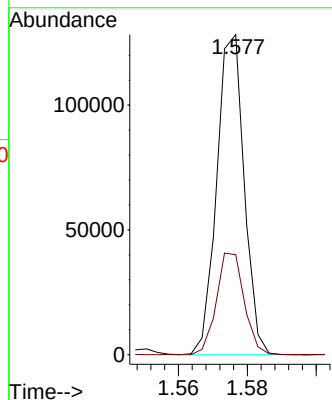
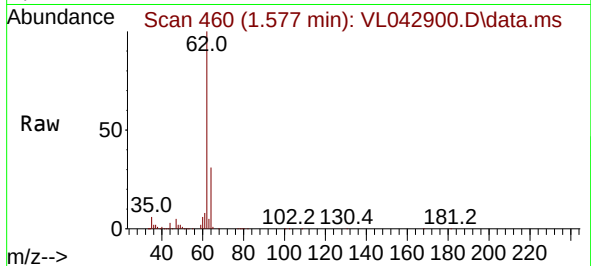




#5
 Vinyl Chloride
 Concen: 9.609 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

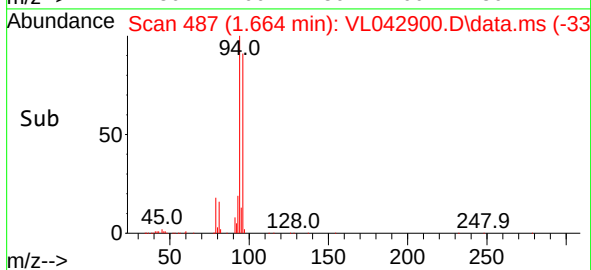
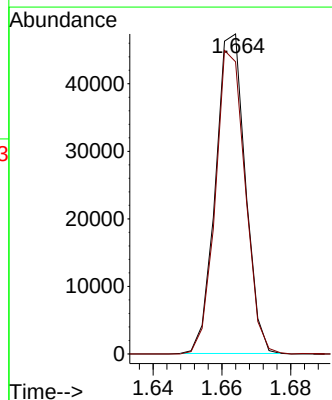
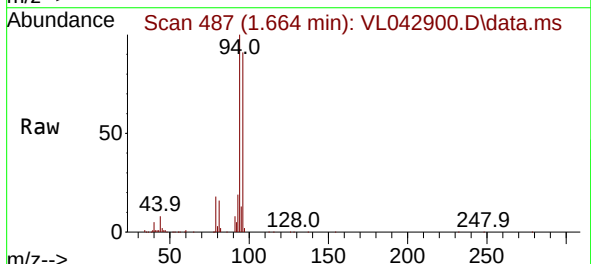
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 ClientSampleId :
 VSTDCCC010

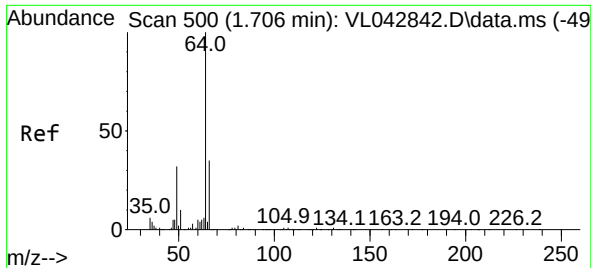
Tgt Ion: 62 Resp: 70899
 Ion Ratio Lower Upper
 62 100
 64 31.3 25.4 38.2



#6
 Bromomethane
 Concen: 9.659 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 94 Resp: 28498
 Ion Ratio Lower Upper
 94 100
 96 91.4 72.1 108.1

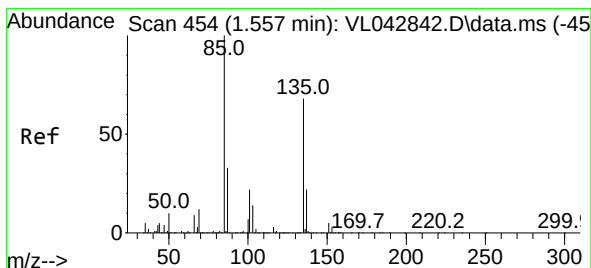
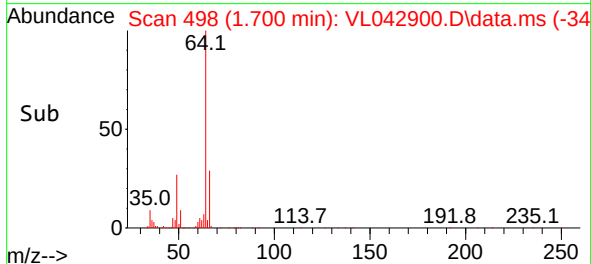
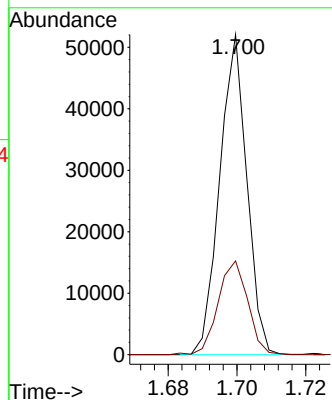
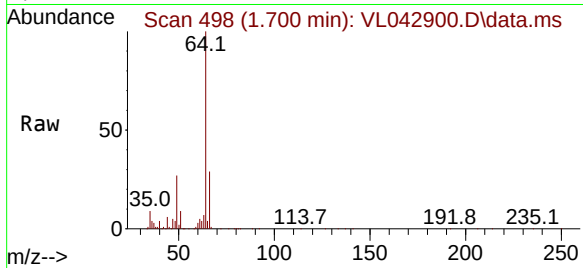




#7
Chloroethane
Concen: 9.889 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

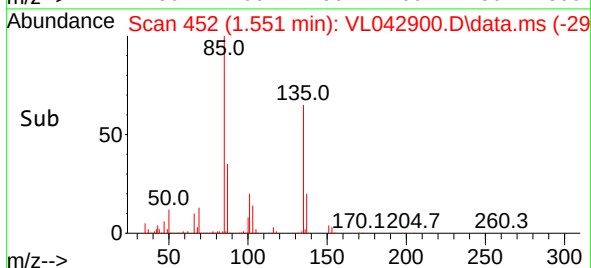
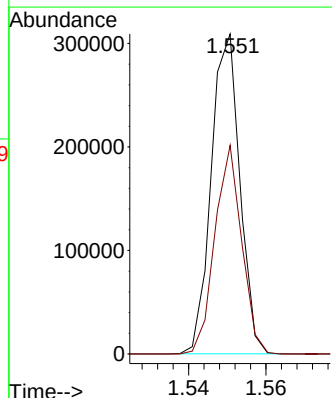
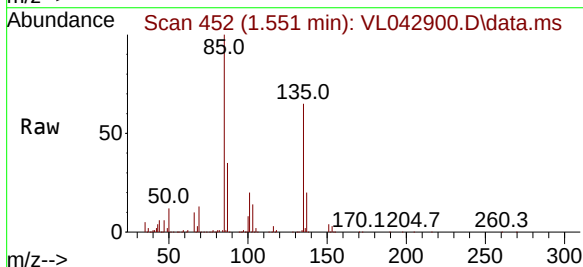
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ClientSampleId :
VSTDCCC010

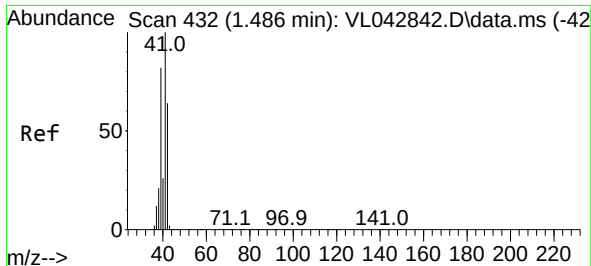
Tgt Ion: 64 Resp: 28496
Ion Ratio Lower Upper
64 100
66 29.3 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 10.420 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 158303
Ion Ratio Lower Upper
85 100
135 61.2 51.2 76.8

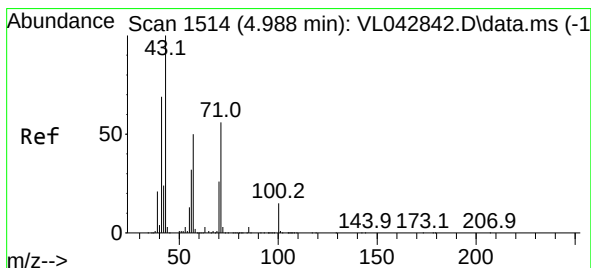
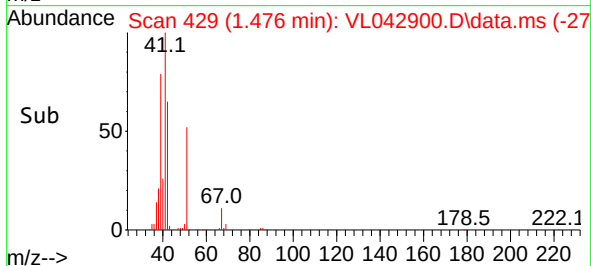
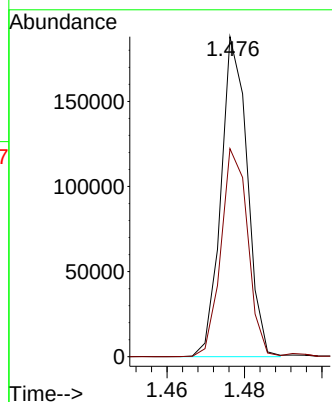
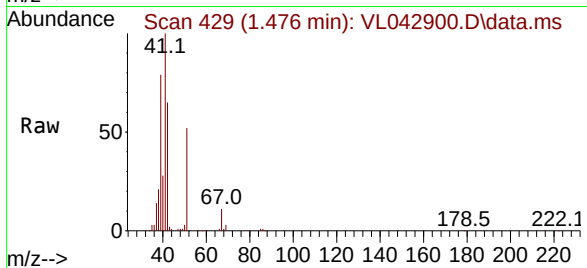




#9
Propene
Concen: 10.009 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

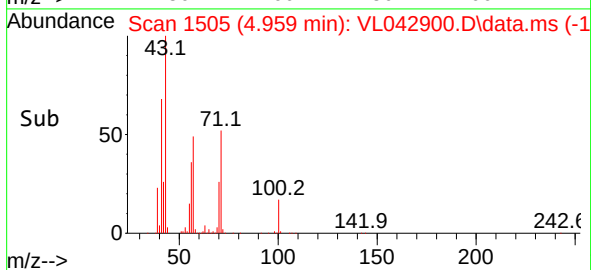
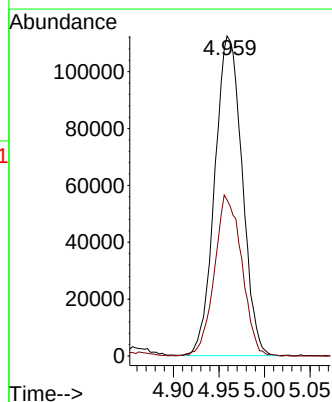
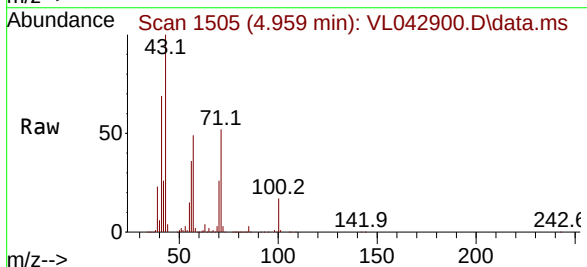
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

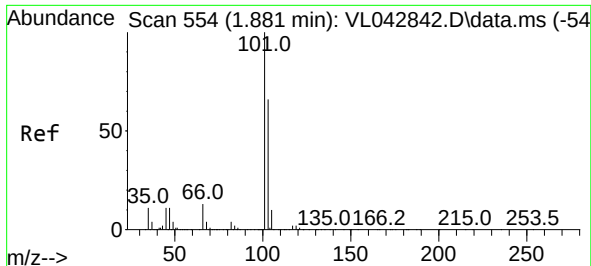
Tgt Ion: 41 Resp: 88702
Ion Ratio Lower Upper
41 100
42 67.1 53.0 79.4



#10
Heptane
Concen: 9.898 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 234952
Ion Ratio Lower Upper
43 100
57 50.2 41.4 62.0

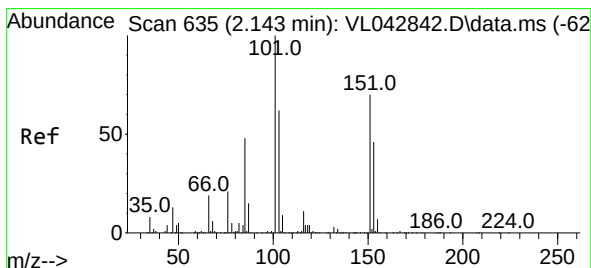
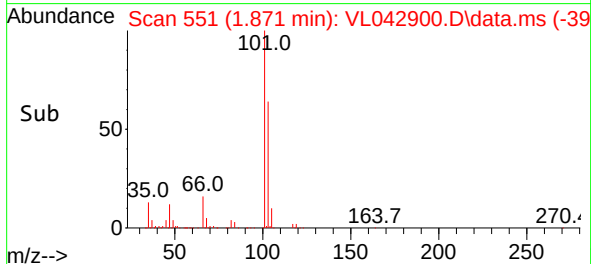
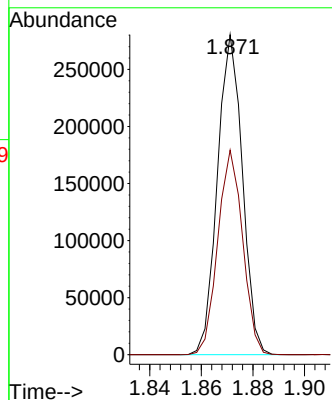
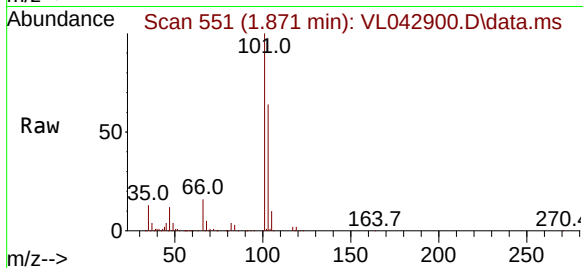




#11
 Trichlorofluoromethane
 Concen: 10.280 ppbv
 RT: 1.871 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

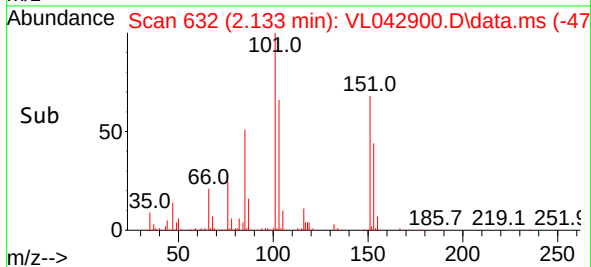
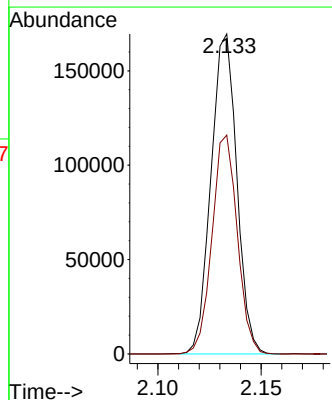
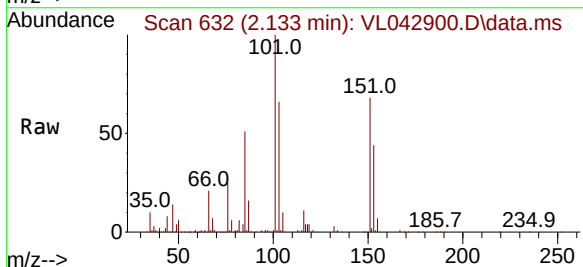
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

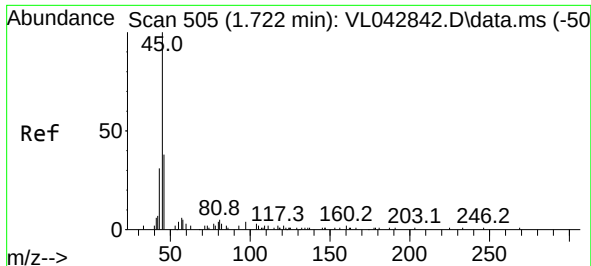
Tgt Ion:101 Resp: 188309
 Ion Ratio Lower Upper
 101 100
 103 63.9 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.089 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion:101 Resp: 147287
 Ion Ratio Lower Upper
 101 100
 151 66.9 56.4 84.6

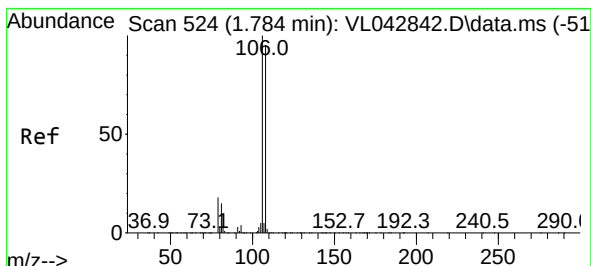
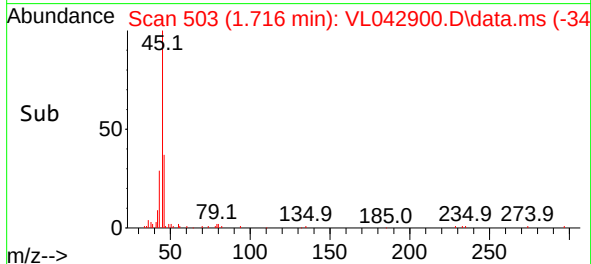
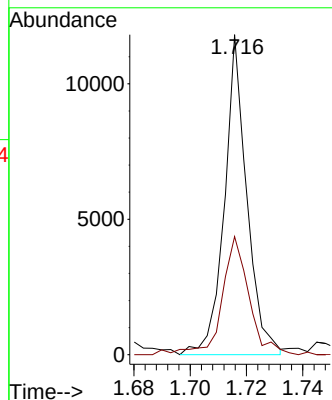
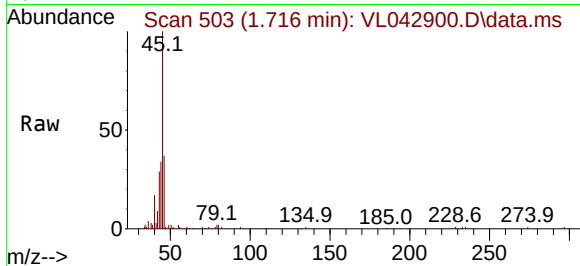




#13
 Ethanol
 Concen: 8.052 ppbv
 RT: 1.716 min Scan# 505
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

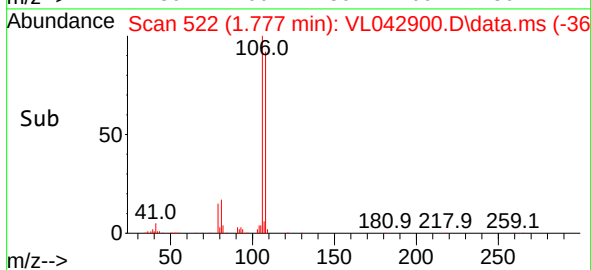
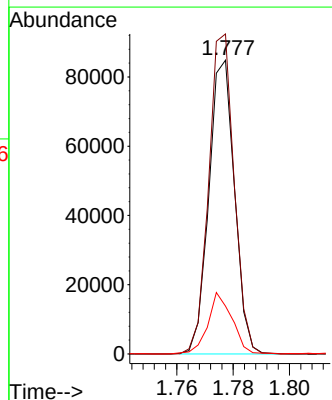
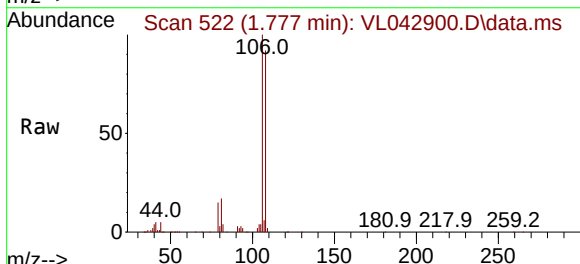
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

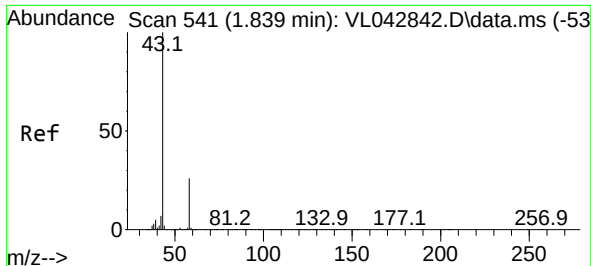
Tgt Ion: 45 Resp: 6525
 Ion Ratio Lower Upper
 45 100
 46 44.8 17.5 69.9



#14
 Bromoethene
 Concen: 10.171 ppbv
 RT: 1.777 min Scan# 522
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 108 Resp: 53755
 Ion Ratio Lower Upper
 108 100
 106 107.9 85.1 127.7
 79 19.9 16.3 24.5

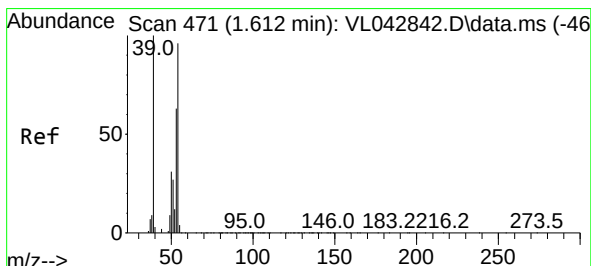
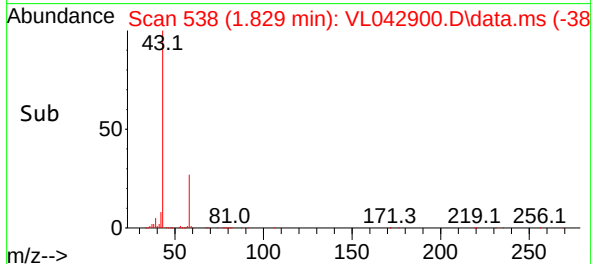
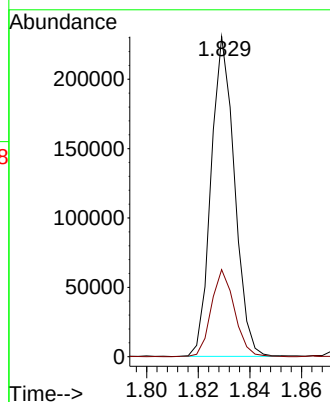
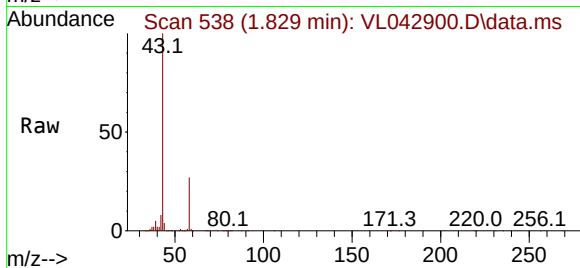




#15
Acetone
Concen: 8.670 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

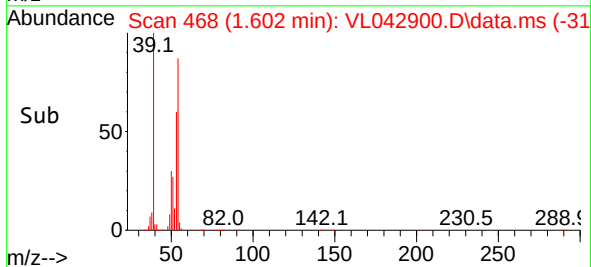
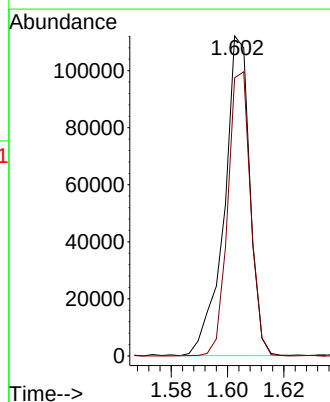
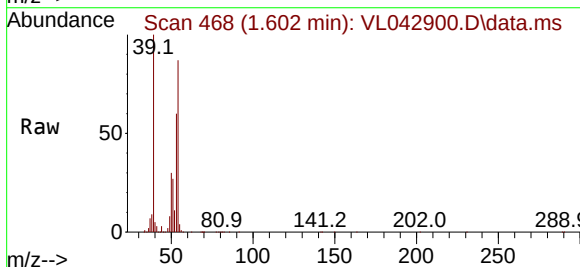
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

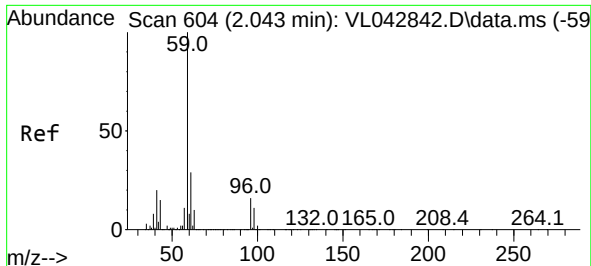
Tgt Ion: 43 Resp: 145289
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6



#16
1,3-Butadiene
Concen: 9.308 ppbv
RT: 1.602 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 39 Resp: 70713
Ion Ratio Lower Upper
39 100
54 79.5 63.6 95.4

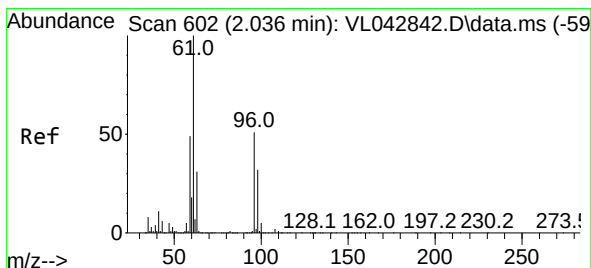
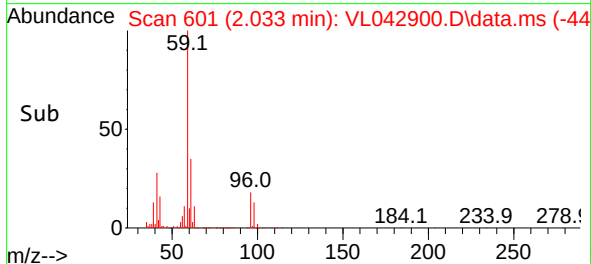
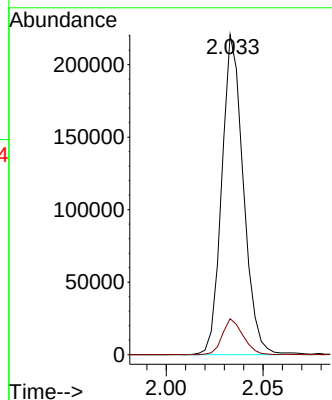
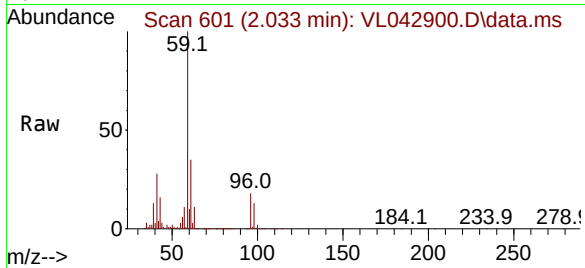




#17
tert-Butyl alcohol
Concen: 8.574 ppbv
RT: 2.033 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

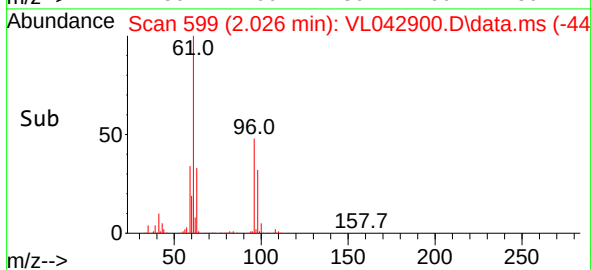
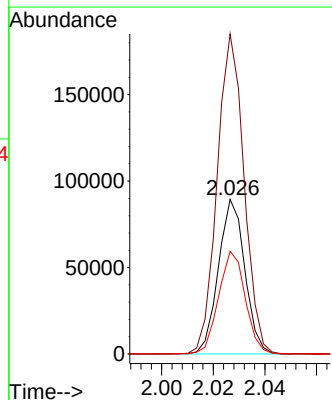
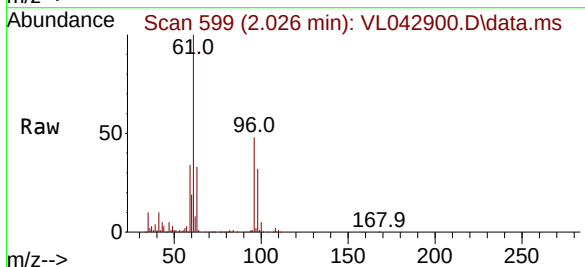
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

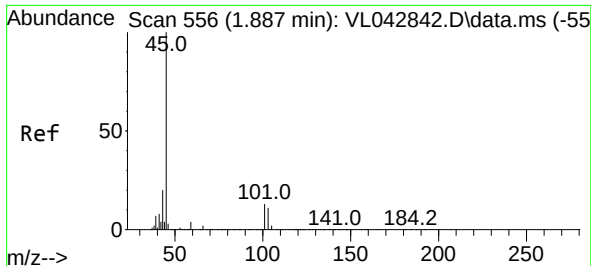
Tgt Ion: 59 Resp: 170394
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.4



#18
1,1-Dichloroethene
Concen: 9.900 ppbv
RT: 2.026 min Scan# 599
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 63544
Ion Ratio Lower Upper
96 100
61 207.0 158.2 237.4
98 66.3 50.6 76.0

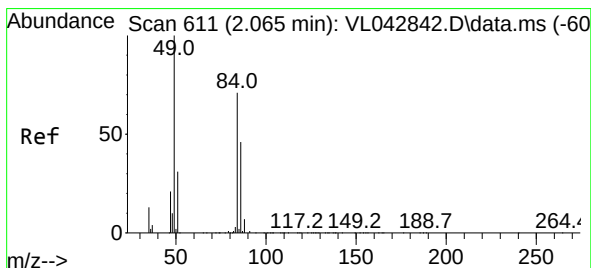
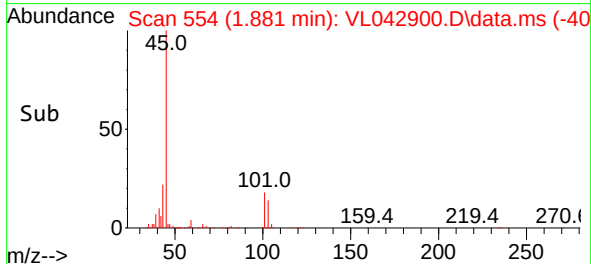
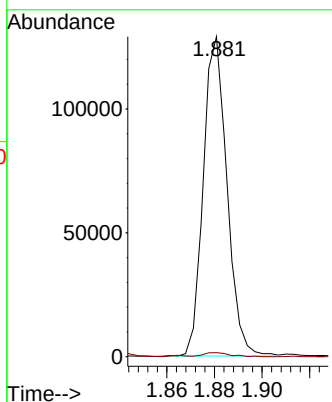
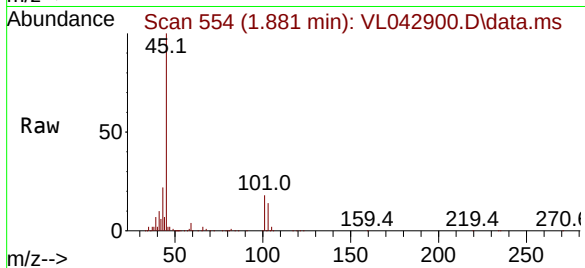




#19
Isopropyl Alcohol
Concen: 8.893 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

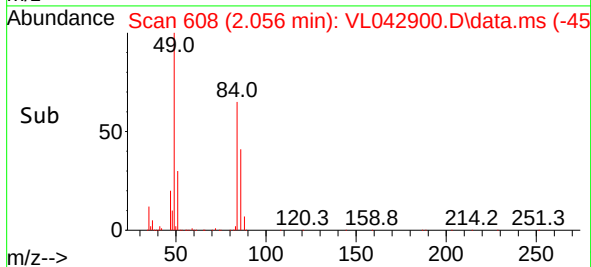
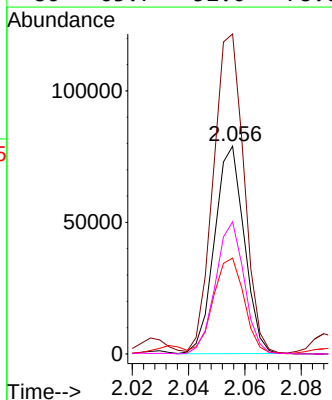
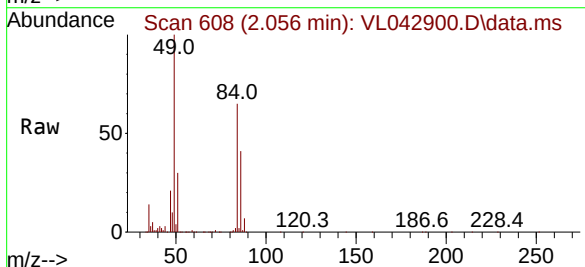
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

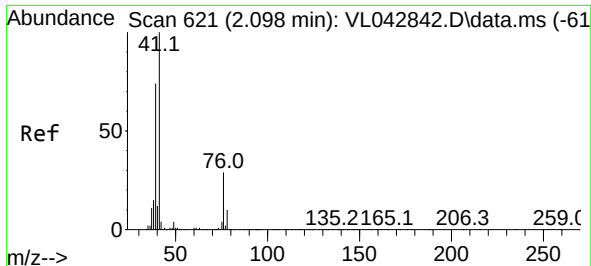
Tgt Ion: 45 Resp: 89009
Ion Ratio Lower Upper
45 100
58 44.1 32.7 49.1



#20
Methylene Chloride
Concen: 8.219 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 84 Resp: 57698
Ion Ratio Lower Upper
84 100
49 153.6 112.3 168.5
51 45.6 36.0 54.0
86 63.7 52.0 78.0

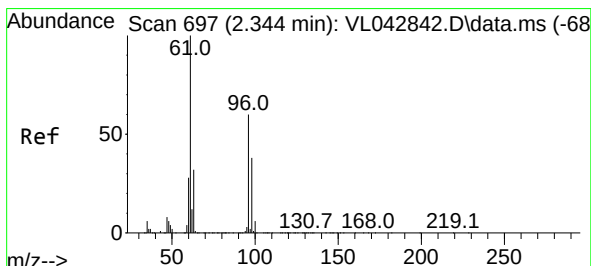
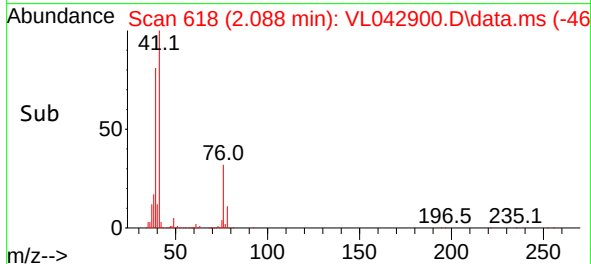
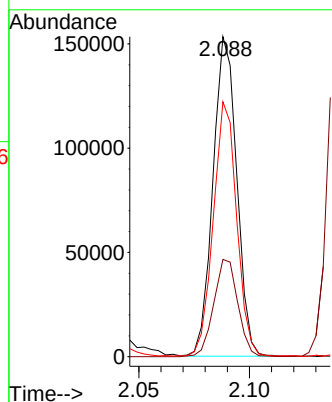
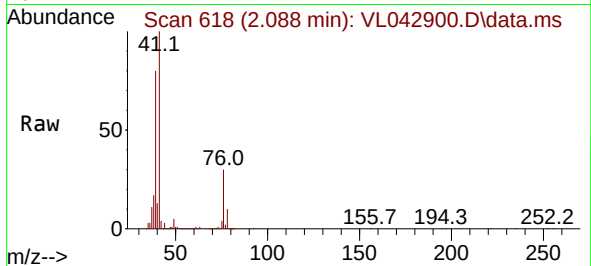




#21
 Allyl Chloride
 Concen: 9.658 ppbv
 RT: 2.088 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

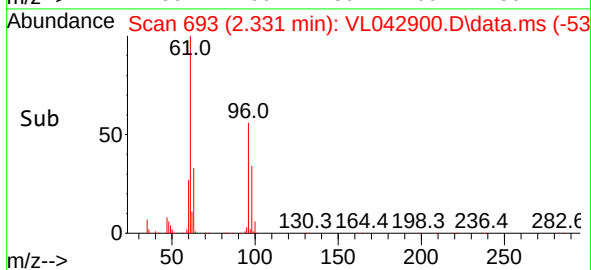
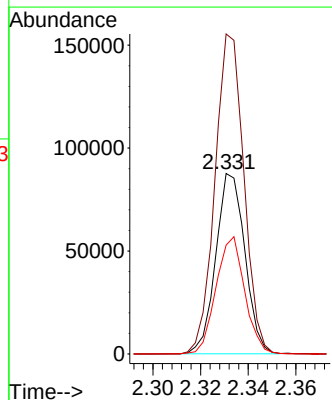
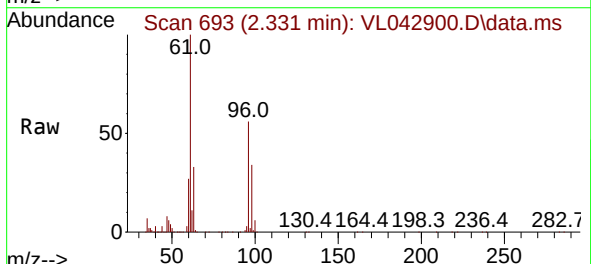
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

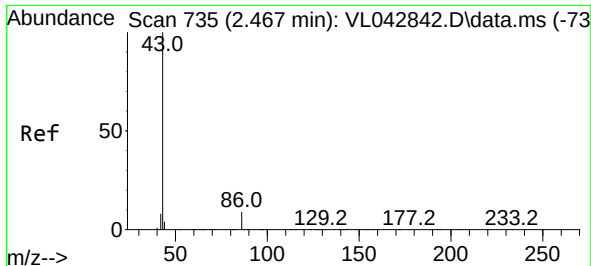
Tgt Ion: 41 Resp: 114332
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 78.4 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.971 ppbv
 RT: 2.331 min Scan# 693
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 74045
 Ion Ratio Lower Upper
 96 100
 61 177.5 132.6 199.0
 98 60.3 50.0 75.0



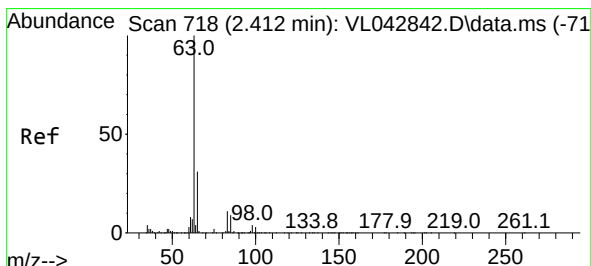
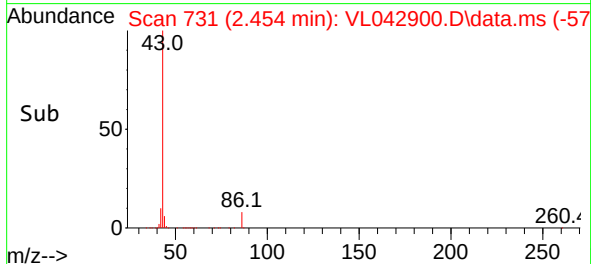
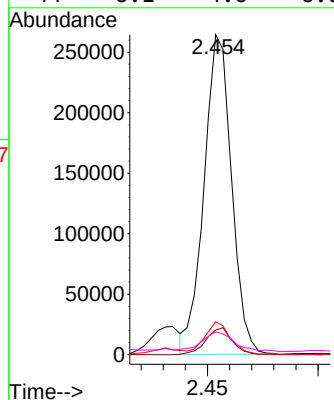
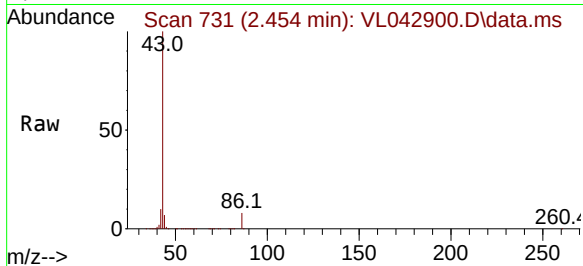


#23
 Vinyl Acetate
 Concen: 9.907 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 228268

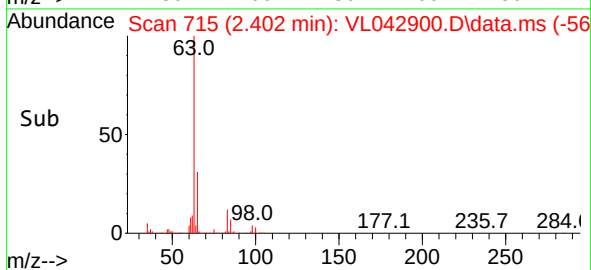
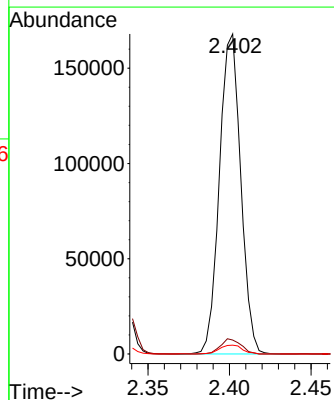
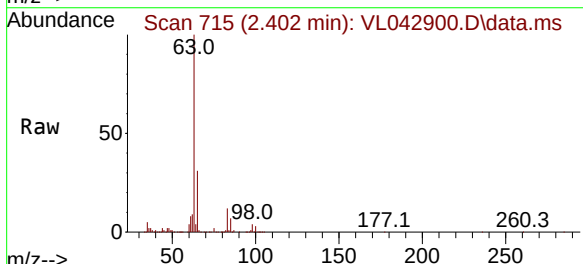
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8
42	10.3	7.0	10.6
44	6.1	4.0	6.0

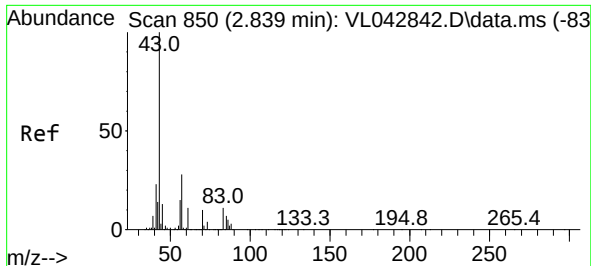


#24
 1,1-Dichloroethane
 Concen: 10.291 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 63 Resp: 152618

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.7	1.7	5.1

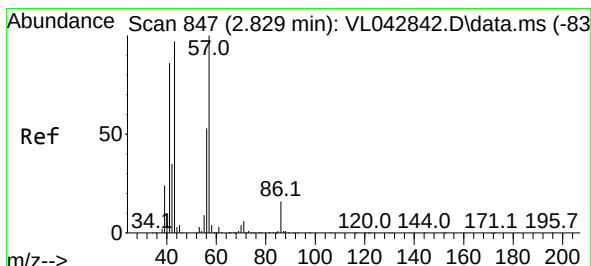
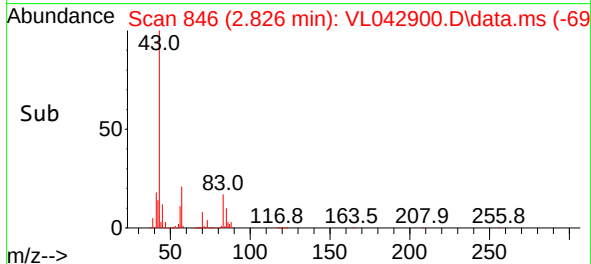
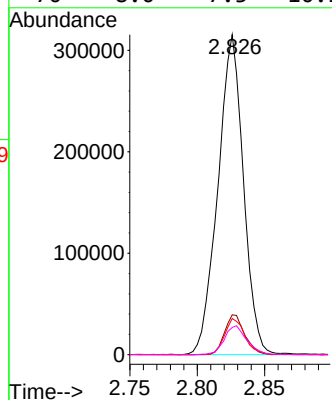
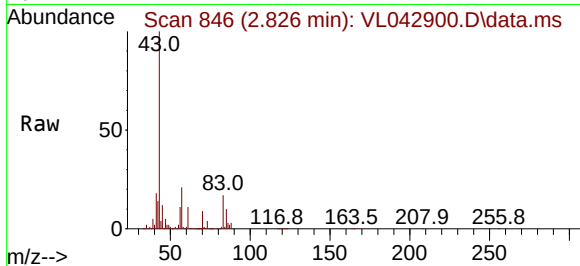




#25
Ethyl Acetate
Concen: 10.242 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

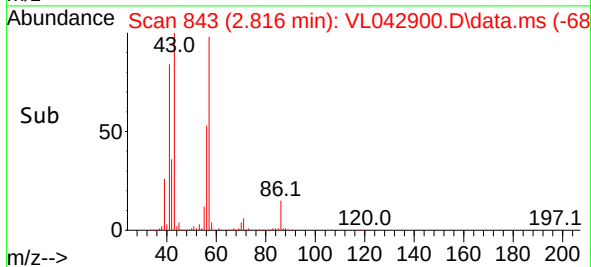
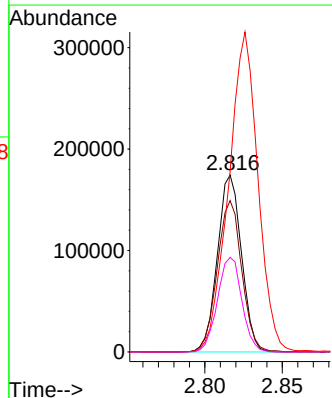
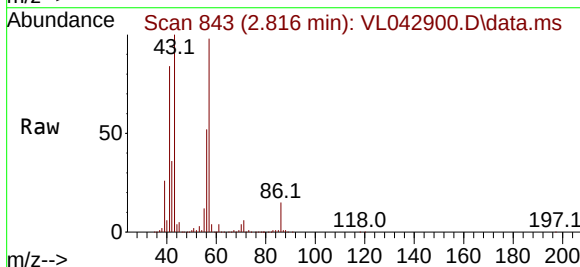
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

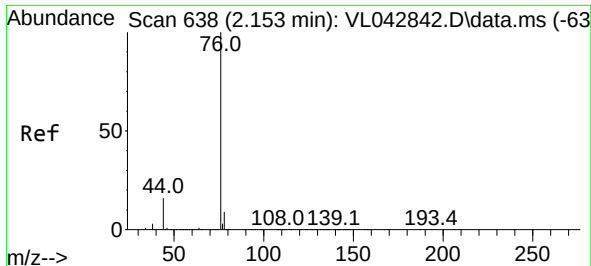
Tgt Ion: 43 Resp: 415386
Ion Ratio Lower Upper
43 100
45 9.9 8.1 12.1
61 9.0 7.4 11.2
70 8.0 7.3 10.9



#26
Hexane
Concen: 10.031 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 187779
Ion Ratio Lower Upper
57 100
41 87.6 68.6 103.0
43 222.1 168.5 252.7
56 54.3 41.5 62.3

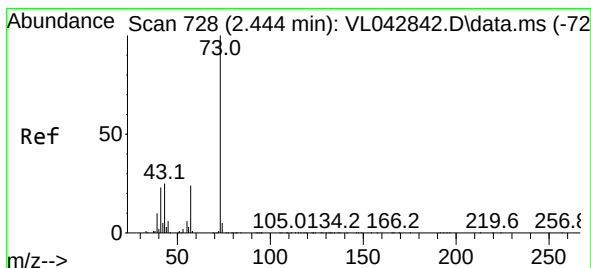
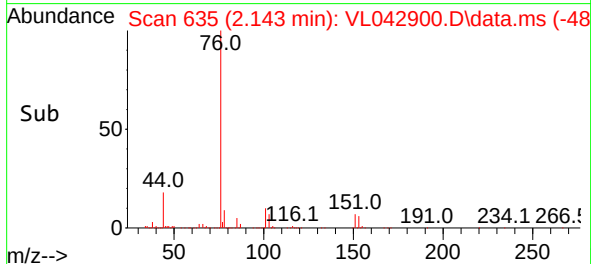
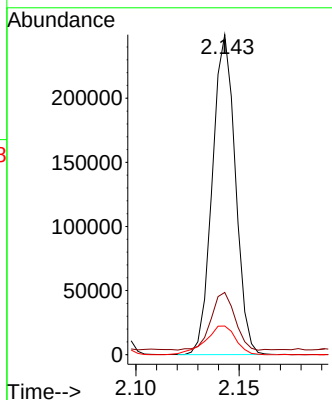
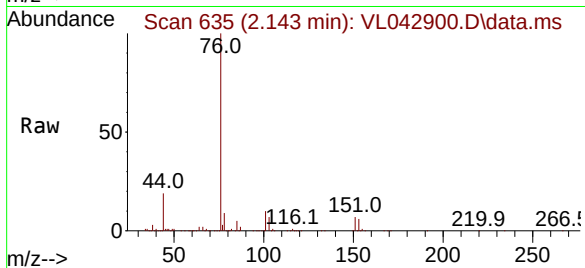




#27
Carbon Disulfide
Concen: 10.608 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

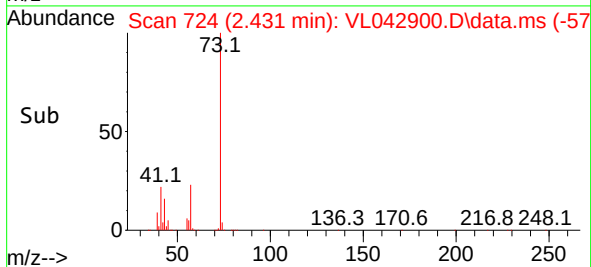
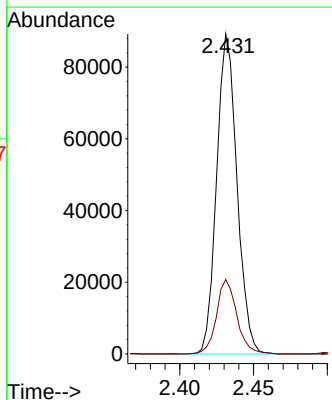
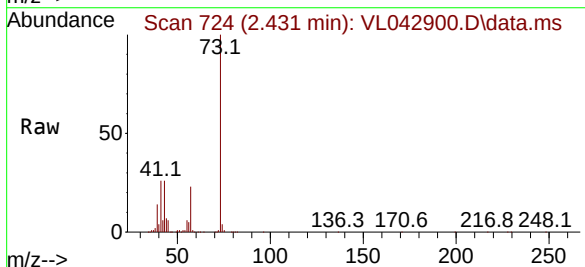
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

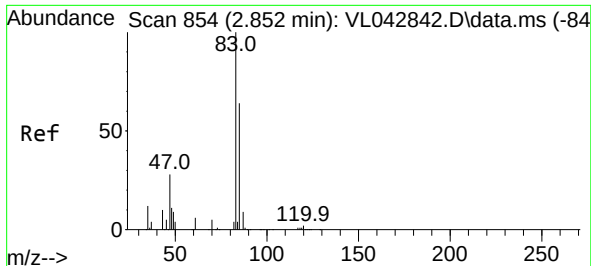
Tgt Ion: 76 Resp: 193262
Ion Ratio Lower Upper
76 100
44 18.7 15.9 23.9
78 11.8 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 8.986 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 73 Resp: 85774
Ion Ratio Lower Upper
73 100
57 23.3 21.6 32.4





#29

Chloroform

Concen: 10.538 ppbv

RT: 2.839 min Scan# 85

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

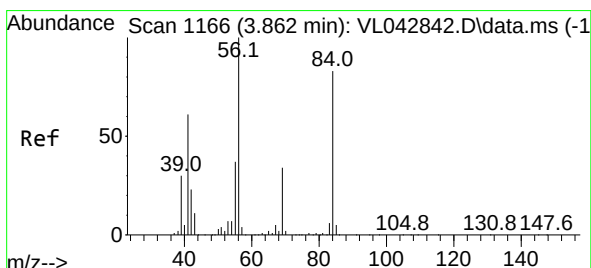
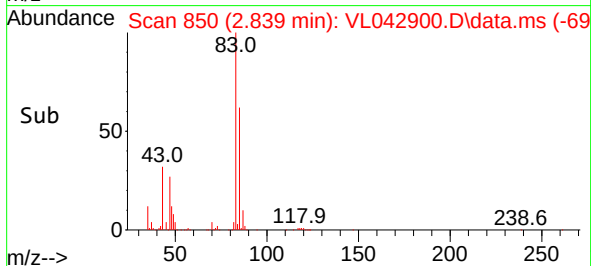
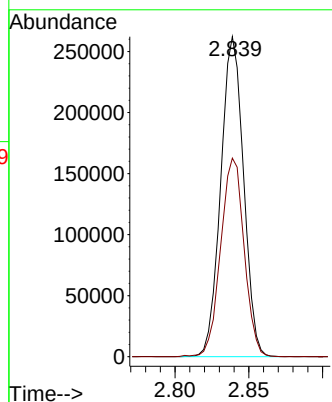
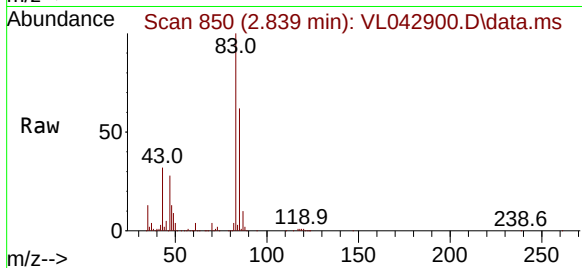
VSTDCCC010

Tgt Ion: 83 Resp: 281659

Ion Ratio Lower Upper

83 100

85 62.0 51.1 76.7



#30

Cyclohexane

Concen: 9.326 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

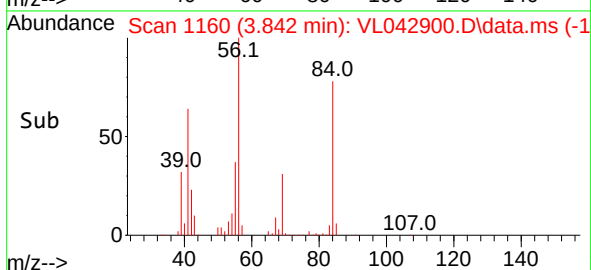
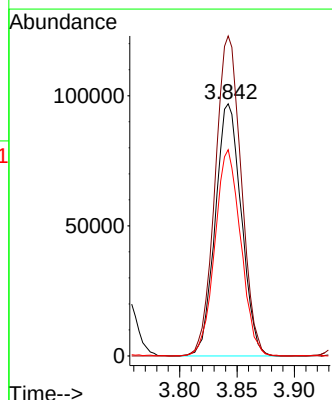
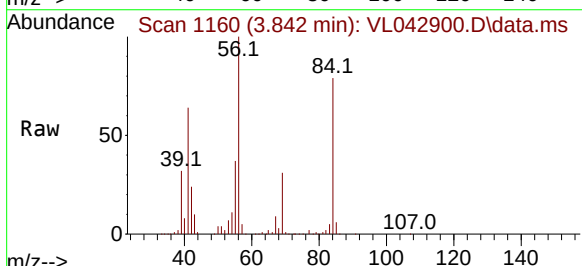
Tgt Ion: 84 Resp: 153066

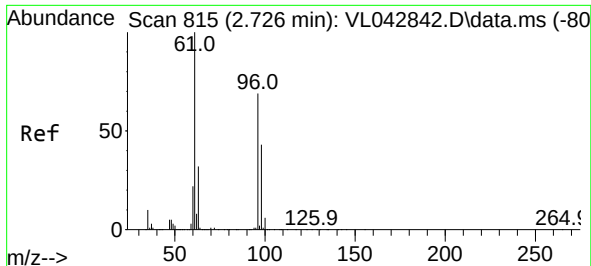
Ion Ratio Lower Upper

84 100

56 127.0 98.8 148.2

41 81.3 61.3 91.9

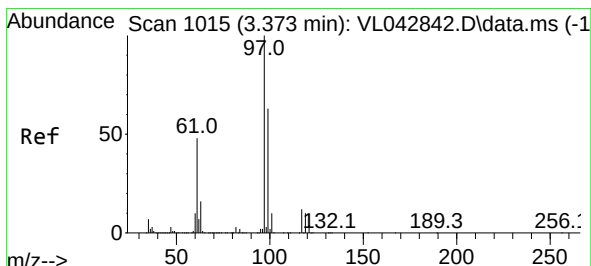
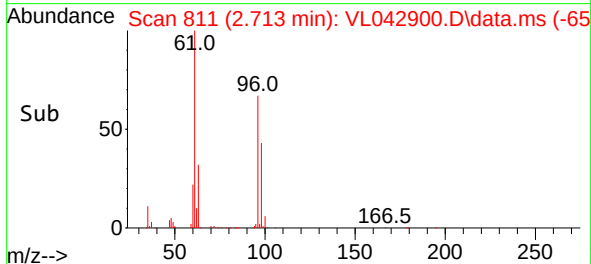
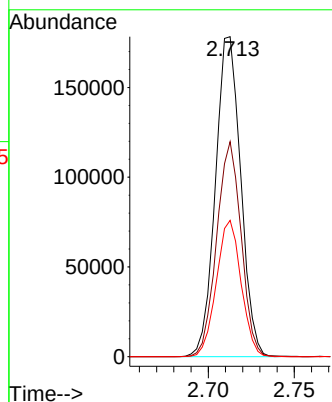
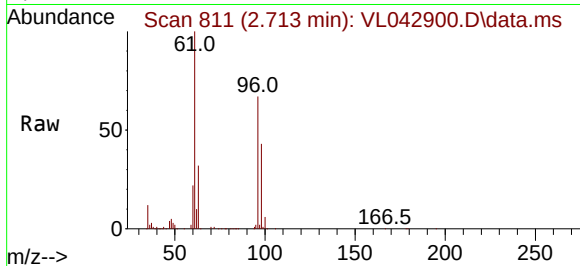




#31
 cis-1,2-Dichloroethene
 Concen: 9.765 ppbv
 RT: 2.713 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

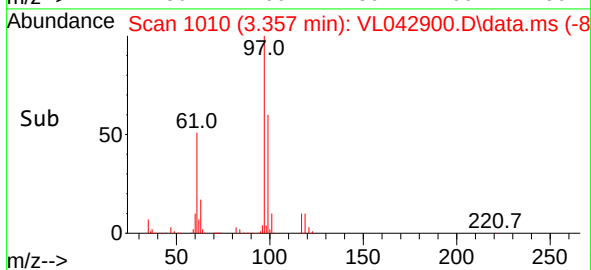
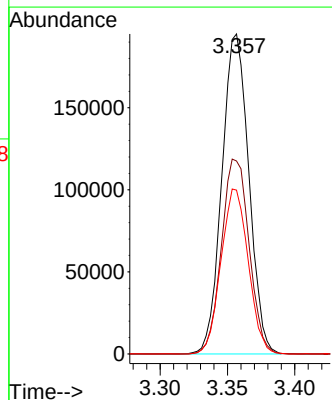
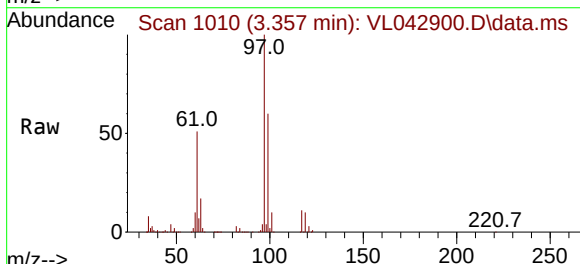
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

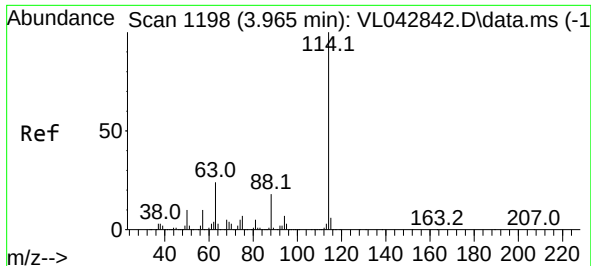
Tgt Ion: 61 Resp: 182592
 Ion Ratio Lower Upper
 61 100
 96 67.1 55.0 82.6
 98 42.6 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 9.609 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 97 Resp: 271429
 Ion Ratio Lower Upper
 97 100
 99 62.5 51.0 76.6
 61 52.2 38.0 57.0

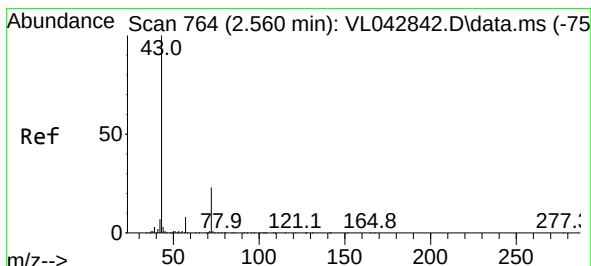
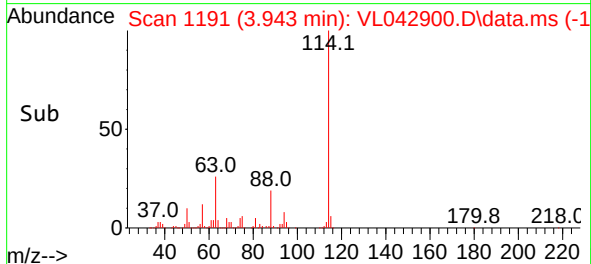
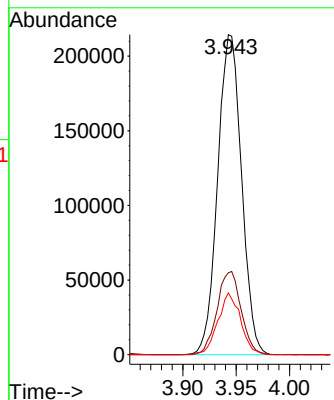
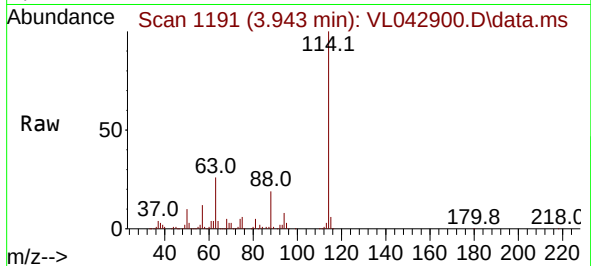




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.943 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

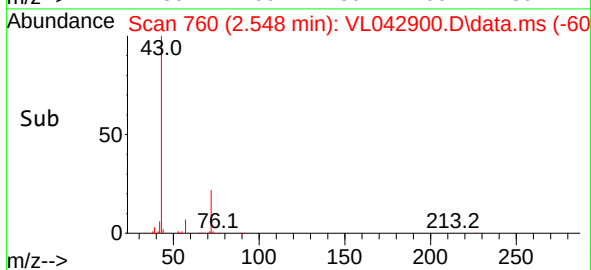
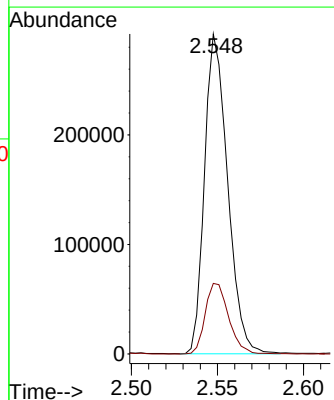
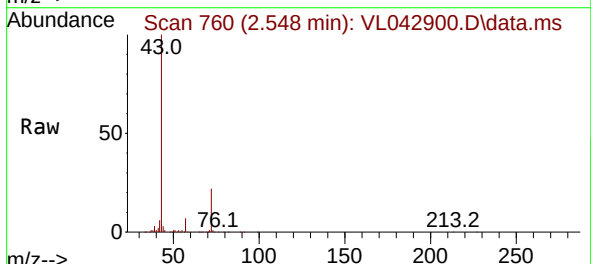
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

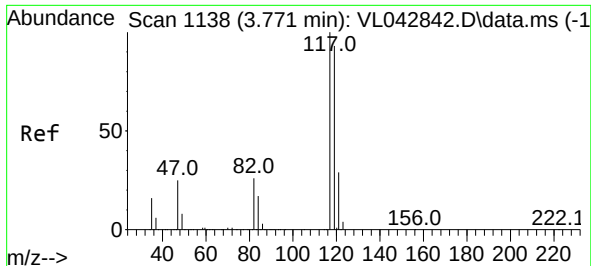
Tgt Ion:114 Resp: 333606
 Ion Ratio Lower Upper
 114 100
 63 26.3 19.7 29.5
 88 18.2 14.4 21.6



#34
 2-Butanone
 Concen: 12.107 ppbv
 RT: 2.548 min Scan# 760
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 272735
 Ion Ratio Lower Upper
 43 100
 72 22.4 18.6 28.0

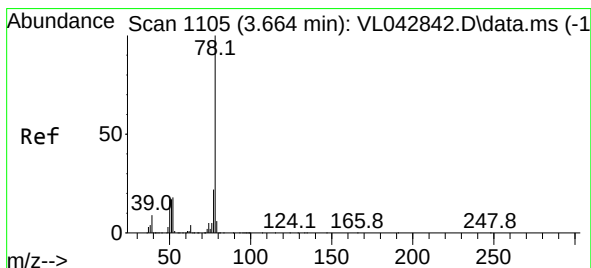
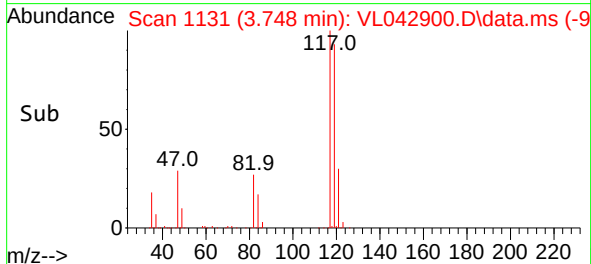
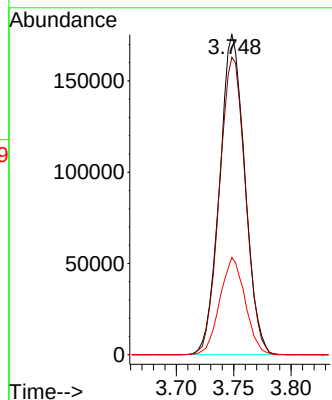
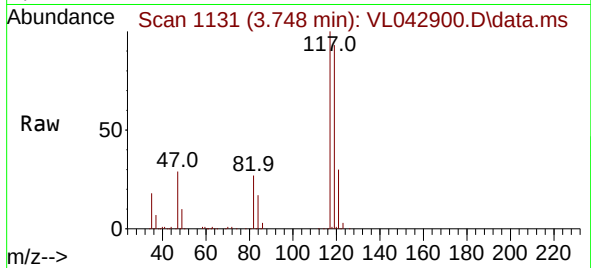




#35
Carbon Tetrachloride
Concen: 11.700 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

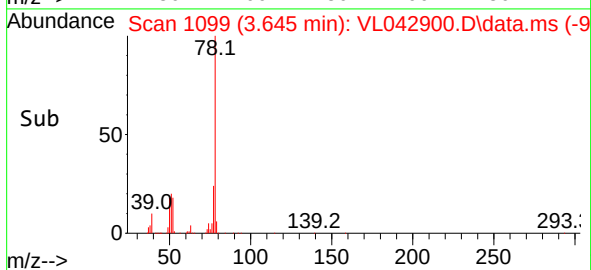
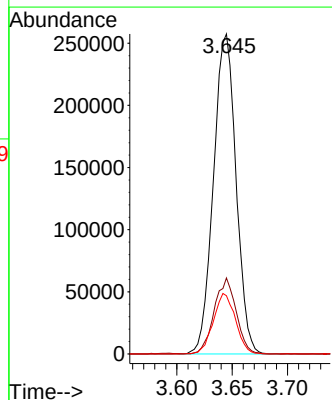
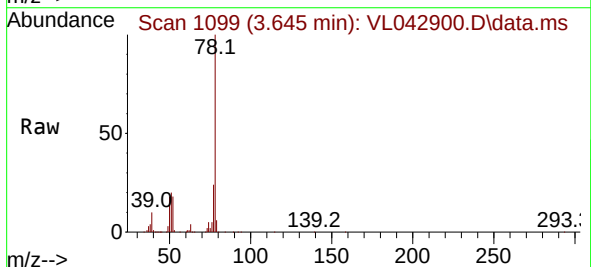
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

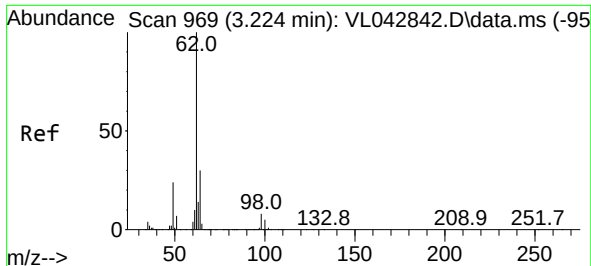
Tgt Ion:117 Resp: 269097
Ion Ratio Lower Upper
117 100
119 93.0 74.7 112.1
121 30.4 23.2 34.8



#36
Benzene
Concen: 11.458 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 78 Resp: 366027
Ion Ratio Lower Upper
78 100
77 23.7 17.7 26.5
50 18.2 13.9 20.9





#37

1,2-Dichloroethane

Concen: 12.686 ppbv

RT: 3.208 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

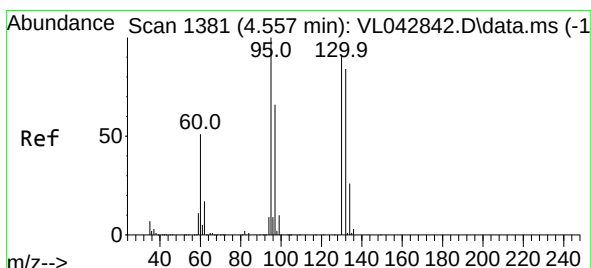
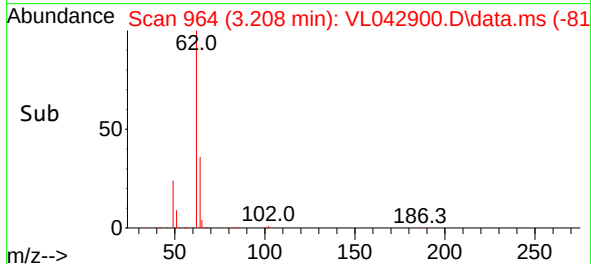
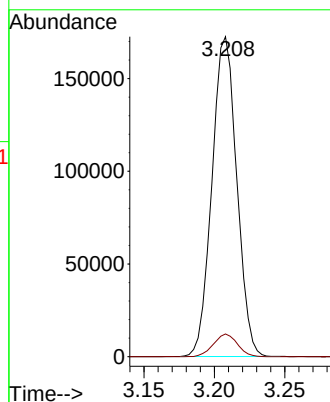
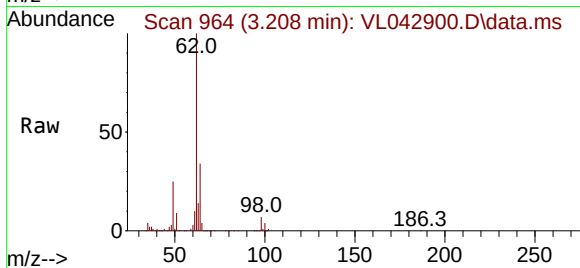
VSTDCCC010

Tgt Ion: 62 Resp: 211728

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 10.413 ppbv

RT: 4.532 min Scan# 1373

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion:130 Resp: 151915

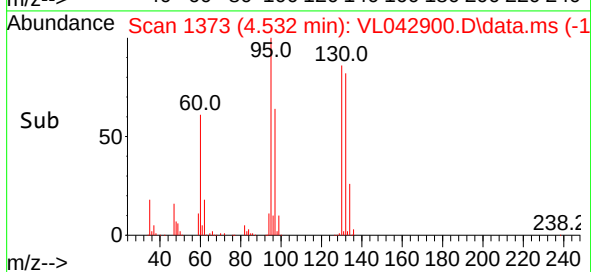
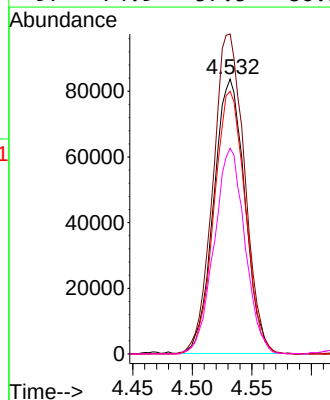
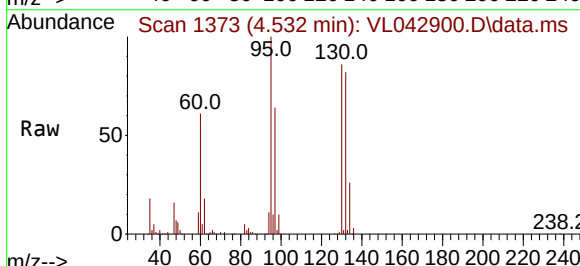
Ion Ratio Lower Upper

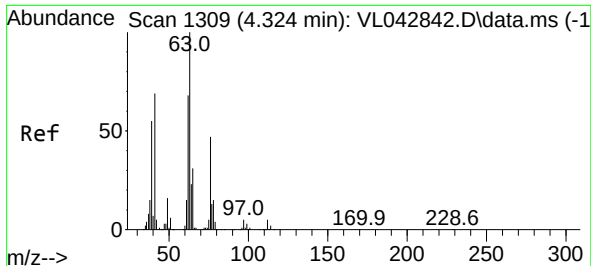
130 100

95 116.1 87.6 131.4

132 95.4 73.8 110.8

97 74.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.970 ppbv

RT: 4.299 min Scan# 1301

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

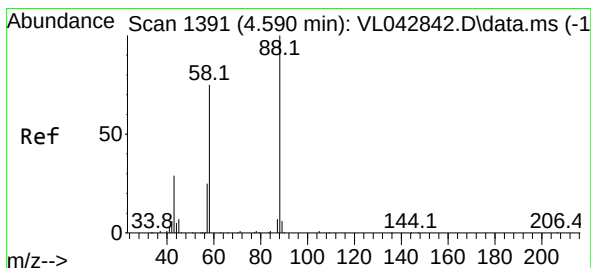
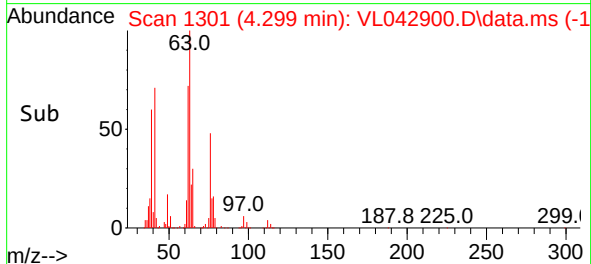
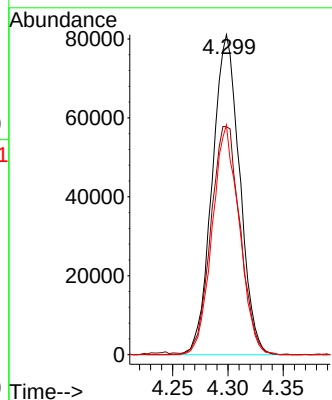
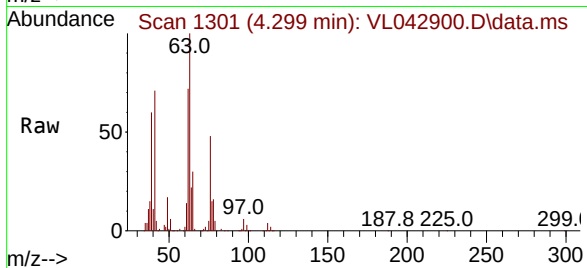
Tgt Ion: 63 Resp: 139657

Ion Ratio Lower Upper

63 100

41 71.2 55.0 82.4

62 71.8 54.4 81.6



#40

1,4-Dioxane

Concen: 10.096 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion: 88 Resp: 56013

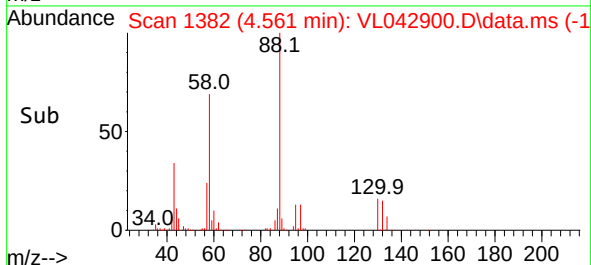
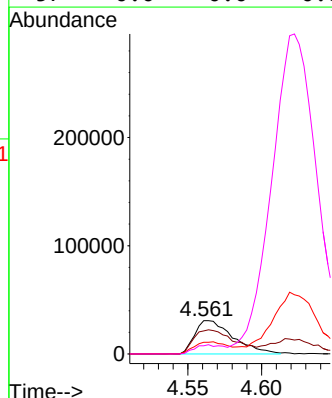
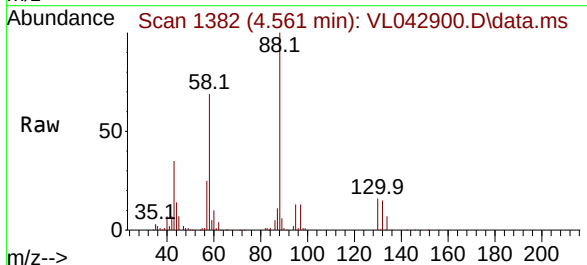
Ion Ratio Lower Upper

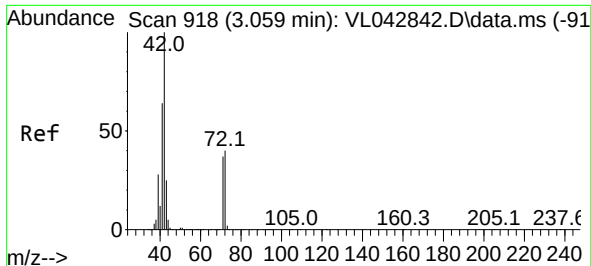
88 100

58 76.6 53.8 80.6

43 35.7 22.8 34.2#

57 0.0 0.0 0.0

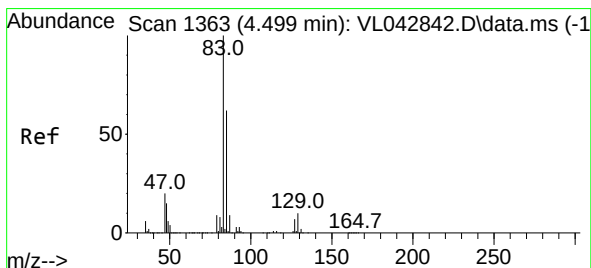
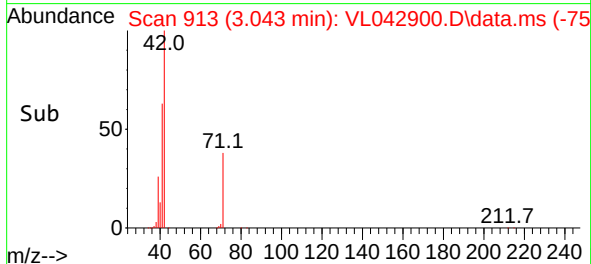
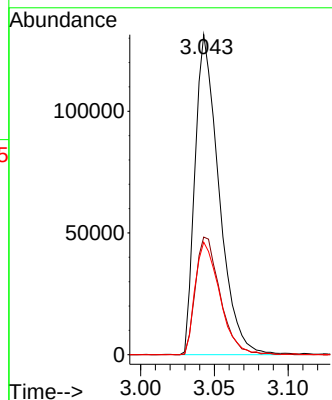
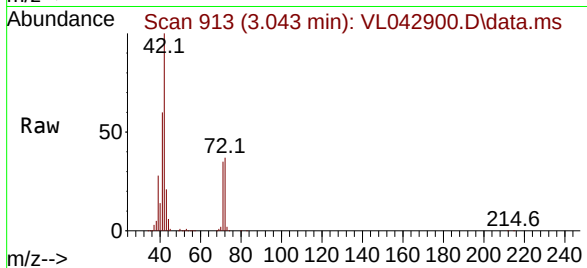




#41
Tetrahydrofuran
Concen: 11.863 ppbv
RT: 3.043 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

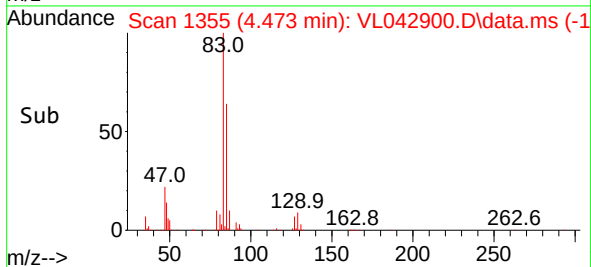
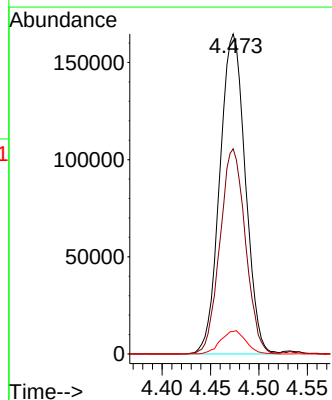
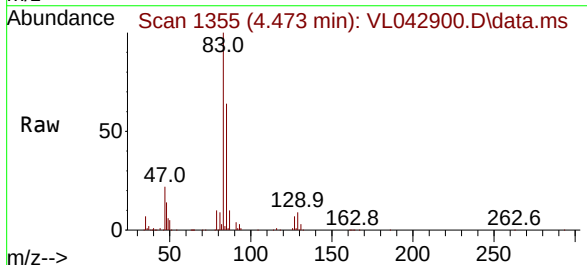
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

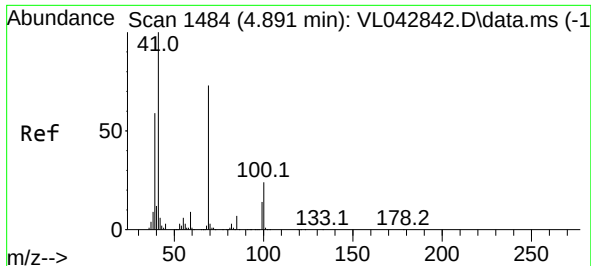
Tgt Ion: 42 Resp: 148990
Ion Ratio Lower Upper
42 100
72 37.6 32.6 48.8
71 36.3 30.0 45.0



#42
Bromodichloromethane
Concen: 12.136 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 83 Resp: 301814
Ion Ratio Lower Upper
83 100
85 64.1 49.8 74.8
127 7.0 5.8 8.6

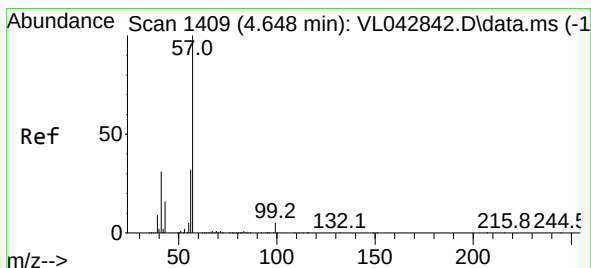
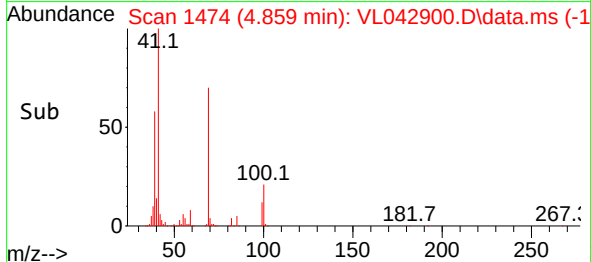
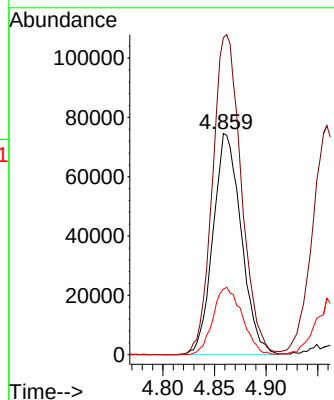
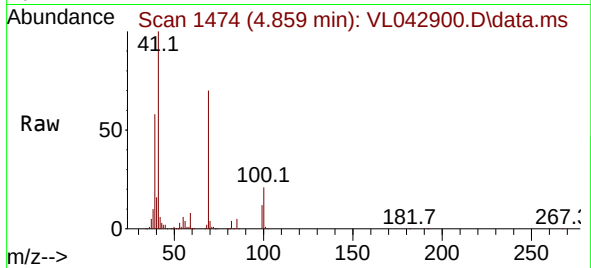




#43
Methyl Methacrylate
Concen: 10.776 ppbv
RT: 4.859 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

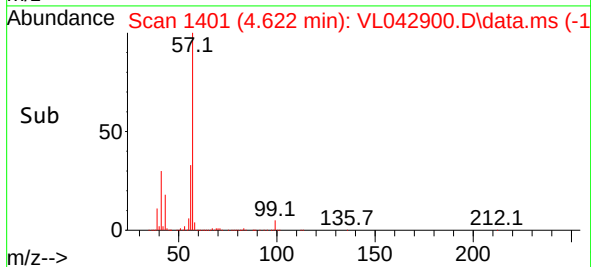
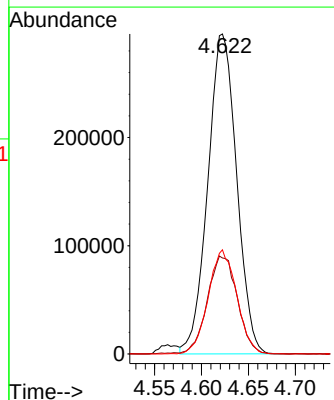
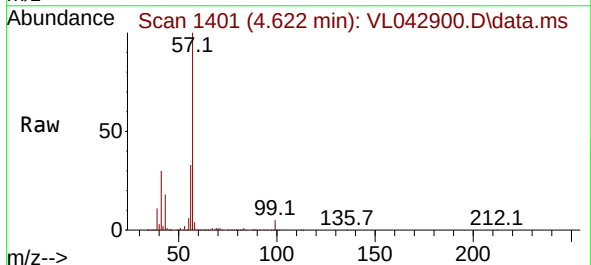
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

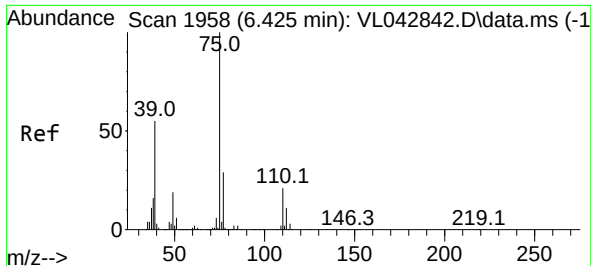
Tgt Ion: 69 Resp: 141813
Ion Ratio Lower Upper
69 100
41 147.4 114.6 172.0
100 31.5 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 11.642 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 631245
Ion Ratio Lower Upper
57 100
41 32.0 24.8 37.2
56 32.2 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 10.411 ppbv

RT: 6.393 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

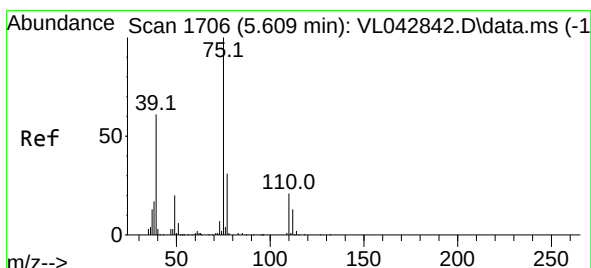
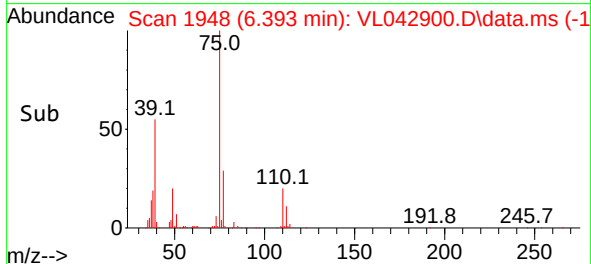
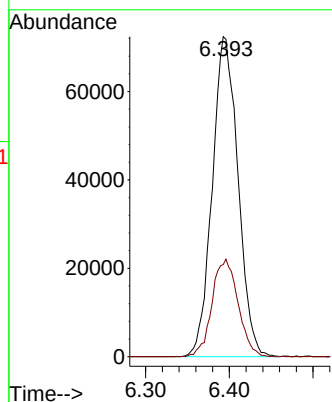
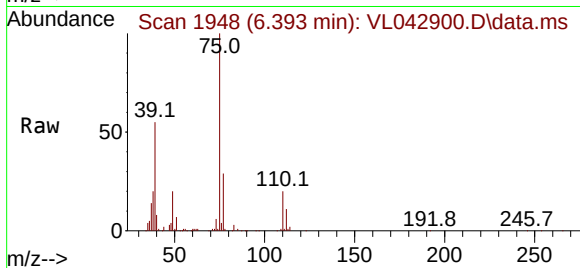
VSTDCCC010

Tgt Ion: 75 Resp: 154622

Ion Ratio Lower Upper

75 100

77 28.8 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 10.851 ppbv

RT: 5.580 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

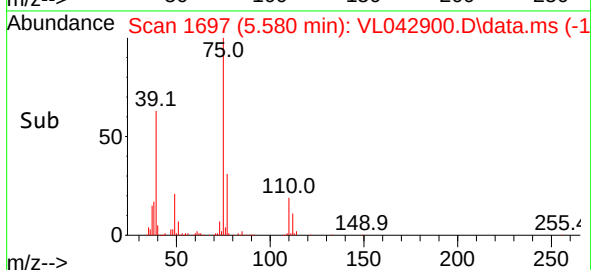
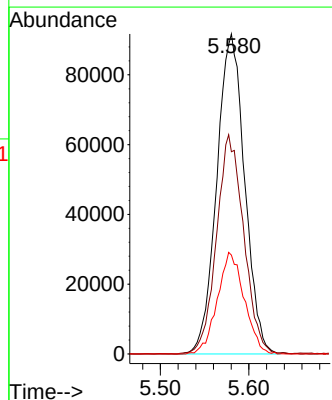
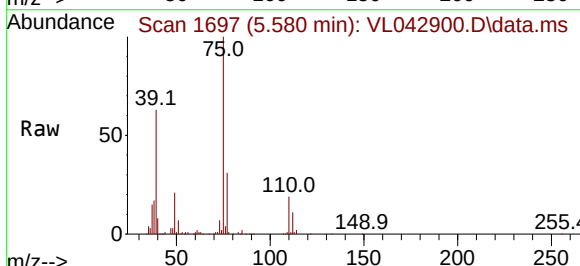
Tgt Ion: 75 Resp: 200797

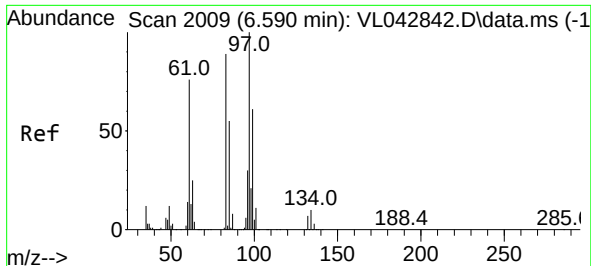
Ion Ratio Lower Upper

75 100

39 63.0 48.9 73.3

77 30.9 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 11.666 ppbv

RT: 6.561 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 144209

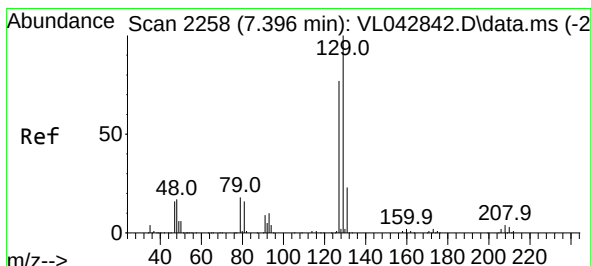
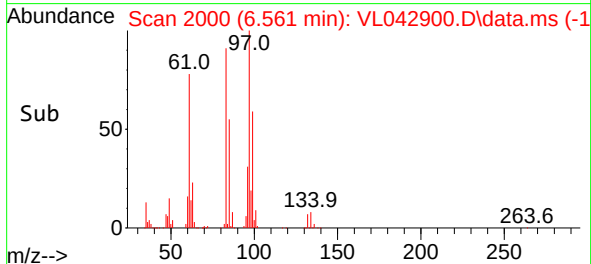
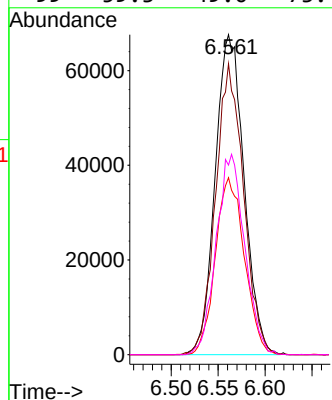
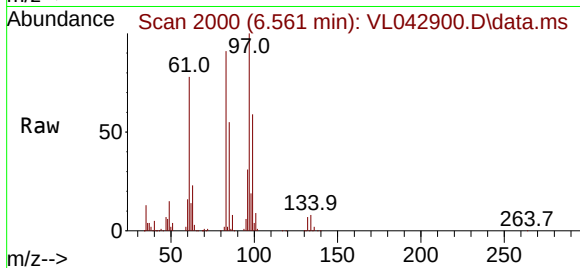
Ion Ratio Lower Upper

97 100

83 90.9 71.0 106.4

85 55.2 43.6 65.4

99 59.3 49.0 73.4



#48

Dibromochloromethane

Concen: 11.430 ppbv

RT: 7.370 min Scan# 2250

Delta R.T. 0.000 min

Lab File: VL042900.D

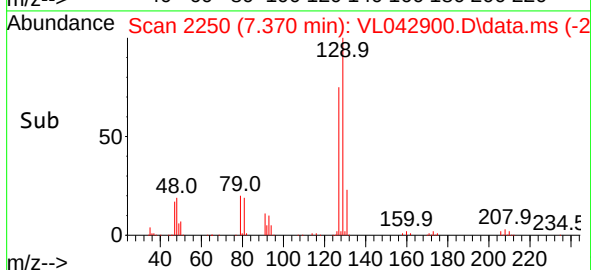
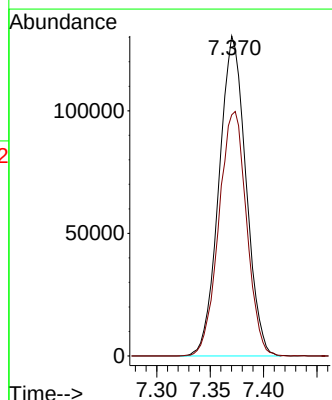
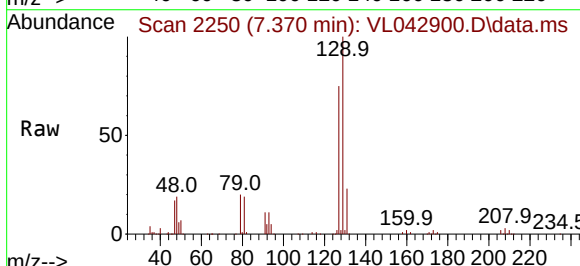
Acq: 08 Sep 2025 11:05

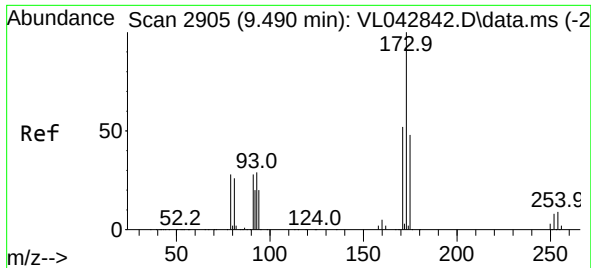
Tgt Ion: 129 Resp: 228649

Ion Ratio Lower Upper

129 100

127 78.7 39.4 118.2

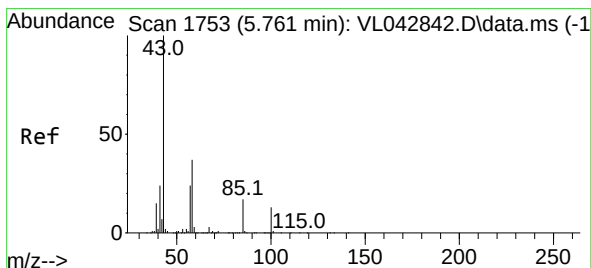
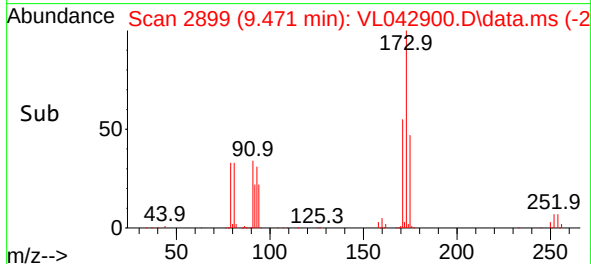
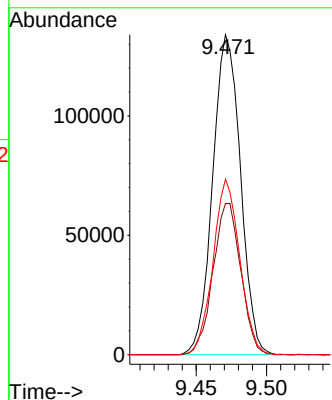
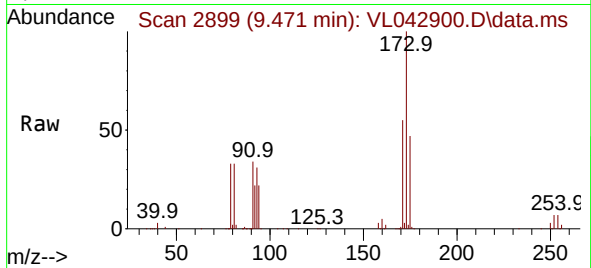




#49
Bromoform
Concen: 11.158 ppbv
RT: 9.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

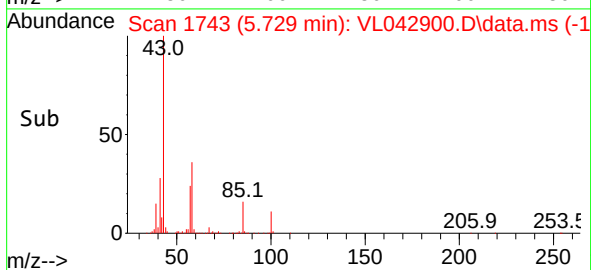
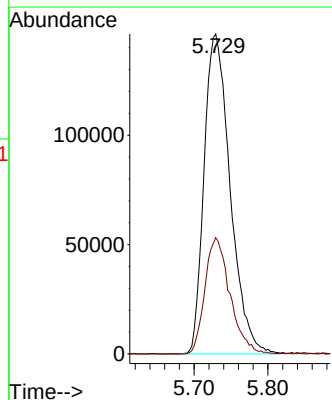
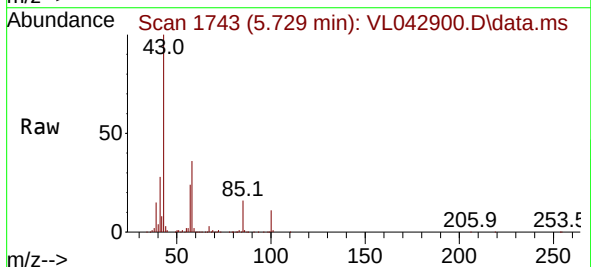
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

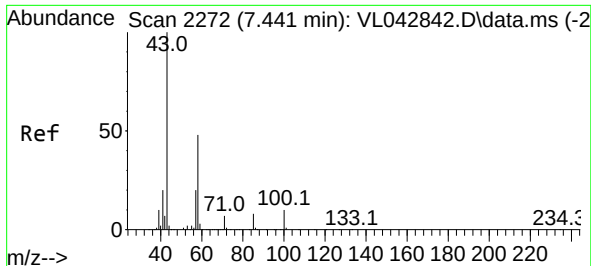
Tgt Ion:173 Resp: 184068
Ion Ratio Lower Upper
173 100
175 47.4 39.2 58.8
171 52.8 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 11.801 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 359329
Ion Ratio Lower Upper
43 100
58 35.0 29.8 44.8

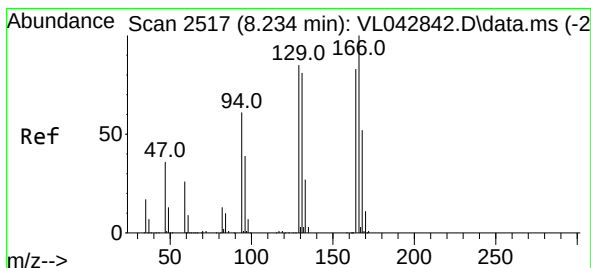
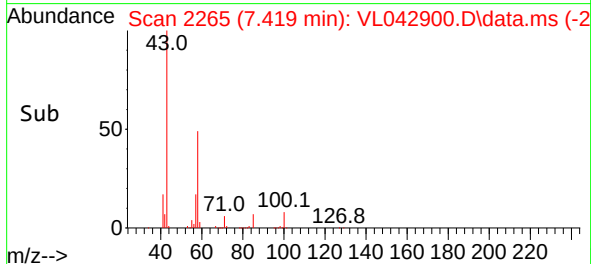
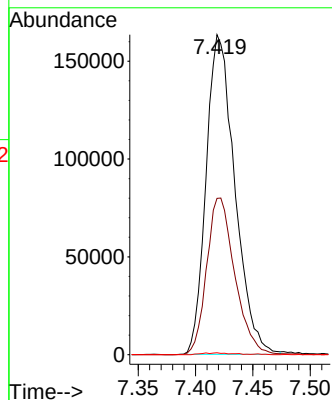
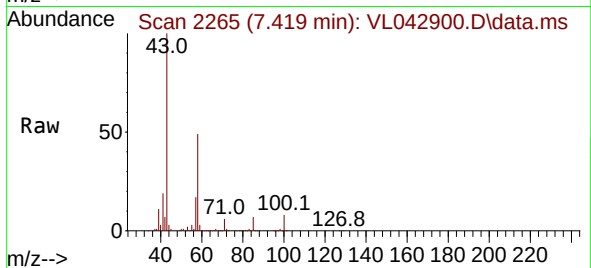




#51
2-Hexanone
Concen: 11.872 ppbv
RT: 7.419 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

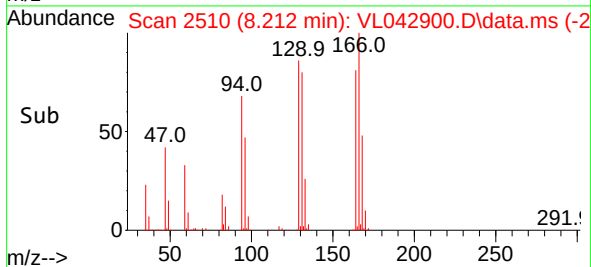
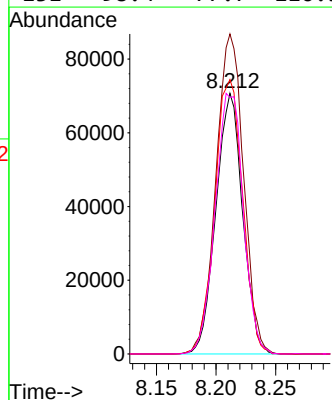
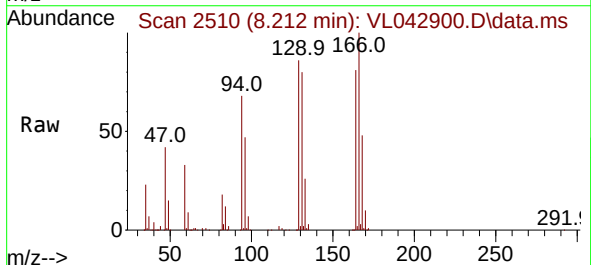
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

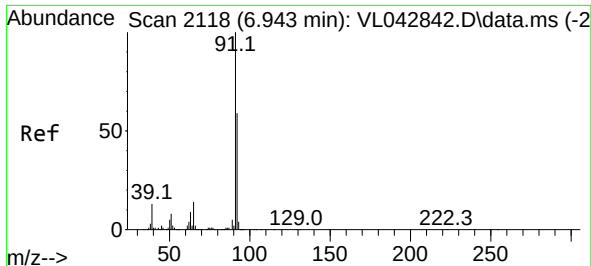
Tgt Ion: 43 Resp: 284454
Ion Ratio Lower Upper
43 100
58 48.1 41.0 61.6
98 0.7 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.547 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:164 Resp: 110334
Ion Ratio Lower Upper
164 100
166 122.8 96.5 144.7
129 105.2 81.8 122.6
131 98.4 77.7 116.5

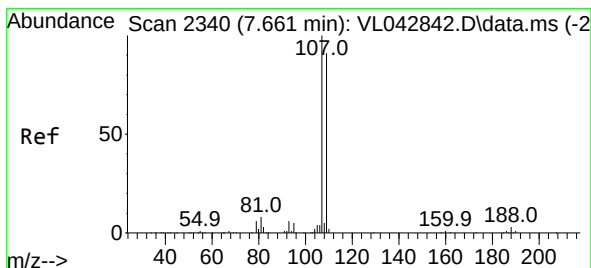
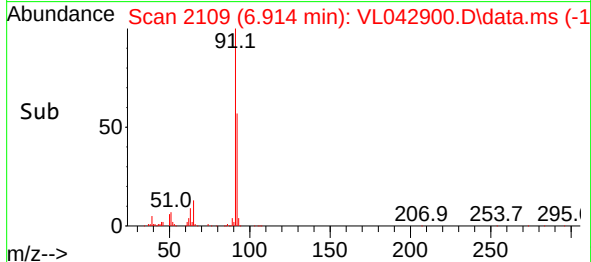
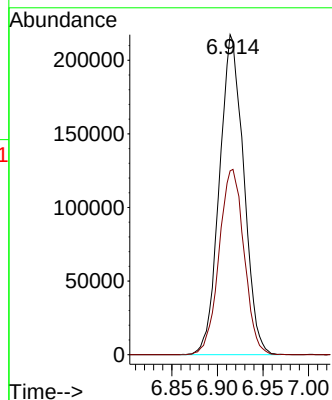
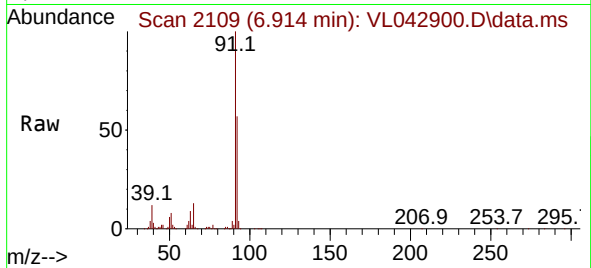




#53
Toluene
Concen: 10.587 ppbv
RT: 6.914 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

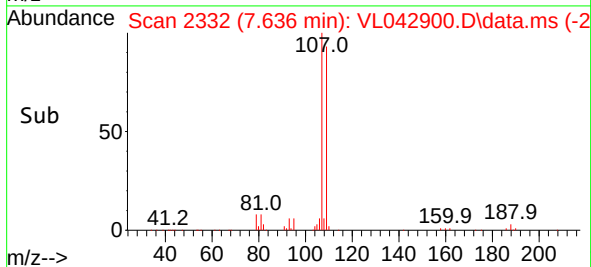
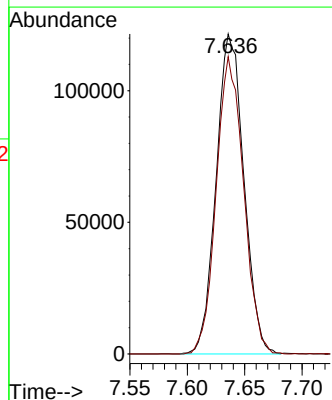
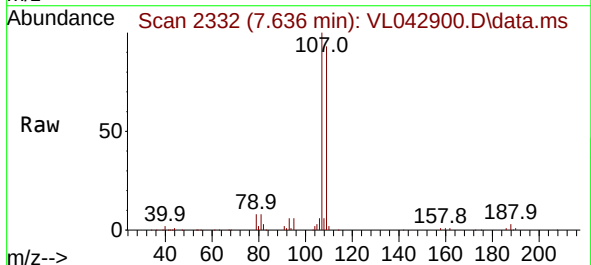
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

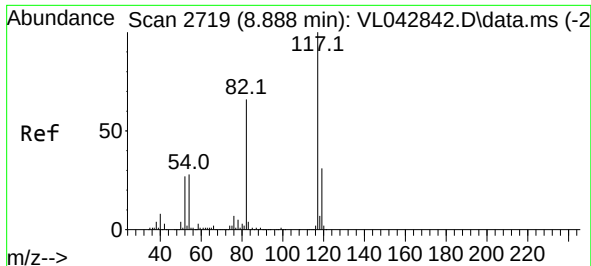
Tgt Ion: 91 Resp: 402080
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 11.307 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 107 Resp: 204276
Ion Ratio Lower Upper
107 100
109 92.9 72.5 108.7

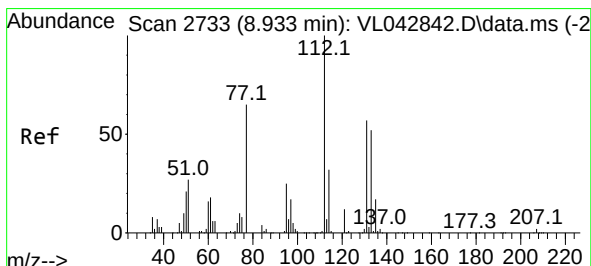
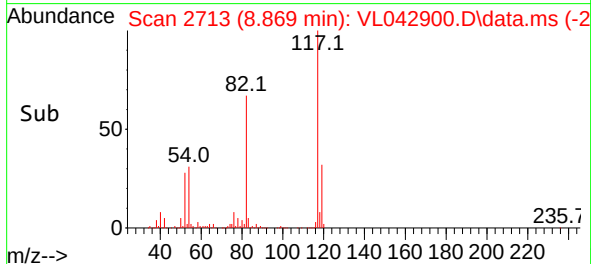
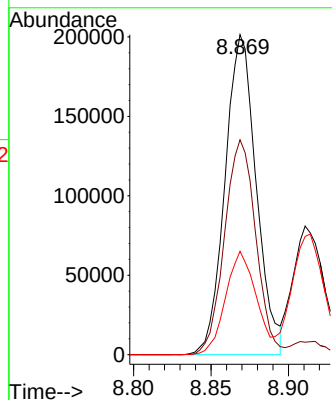
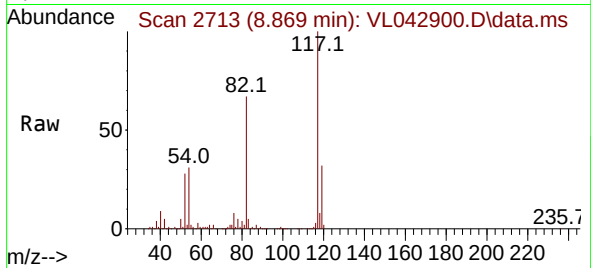




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

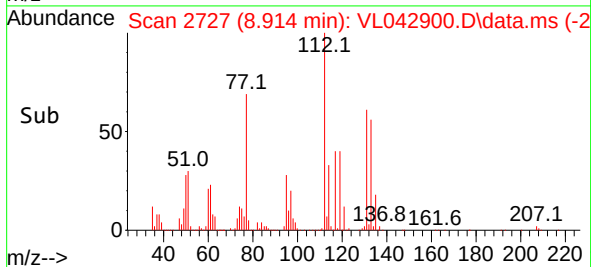
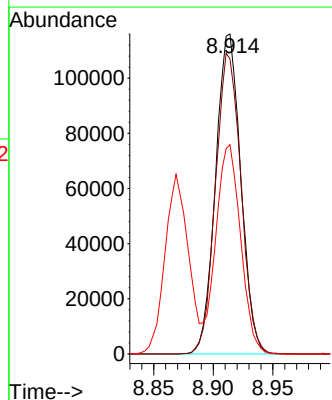
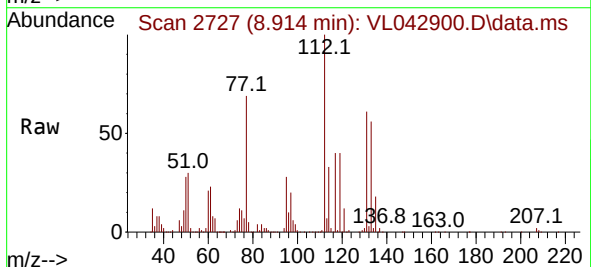
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

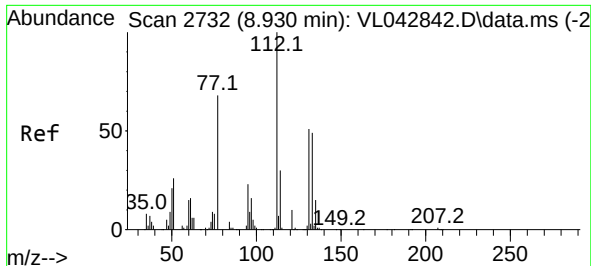
Tgt Ion:117 Resp: 282770
Ion Ratio Lower Upper
117 100
82 71.7 54.6 81.8
119 33.1 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 11.648 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:131 Resp: 170319
Ion Ratio Lower Upper
131 100
133 95.2 77.4 116.0
119 63.9 51.2 76.8





#57

Chlorobenzene

Concen: 11.581 ppbv

RT: 8.911 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

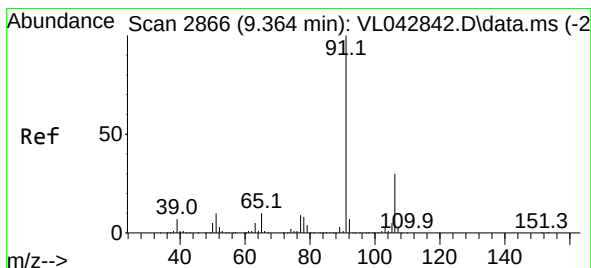
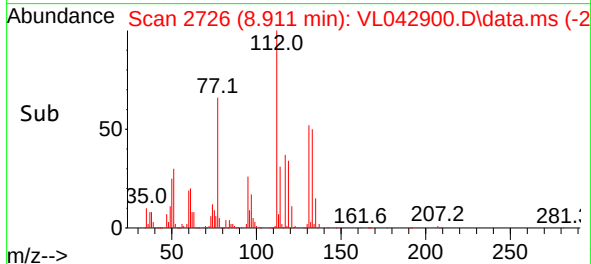
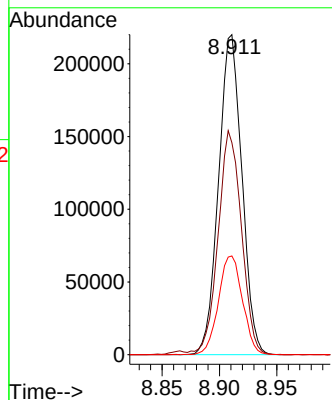
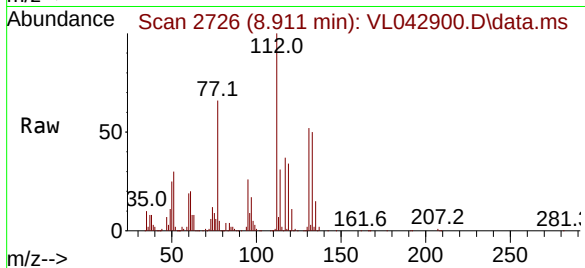
Tgt Ion:112 Resp: 311373

Ion Ratio Lower Upper

112 100

77 66.1 55.5 83.3

114 30.8 27.2 33.2



#58

Ethyl Benzene

Concen: 11.184 ppbv

RT: 9.345 min Scan# 2860

Delta R.T. 0.000 min

Lab File: VL042900.D

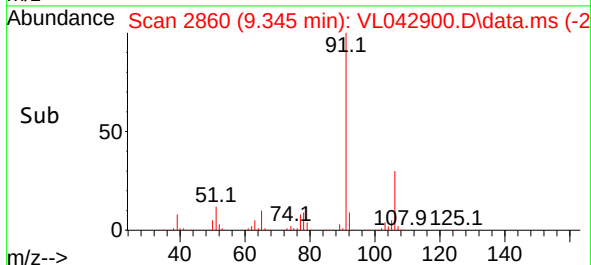
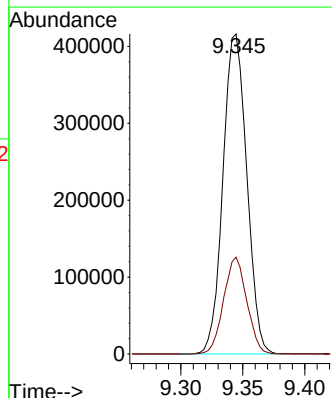
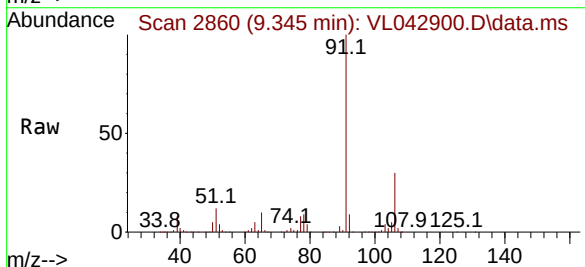
Acq: 08 Sep 2025 11:05

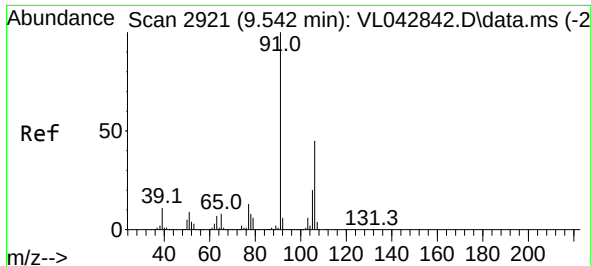
Tgt Ion: 91 Resp: 558102

Ion Ratio Lower Upper

91 100

106 30.3 23.9 35.9

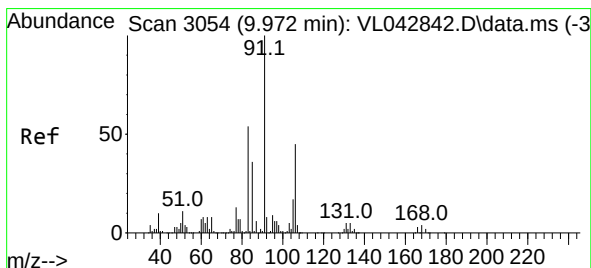
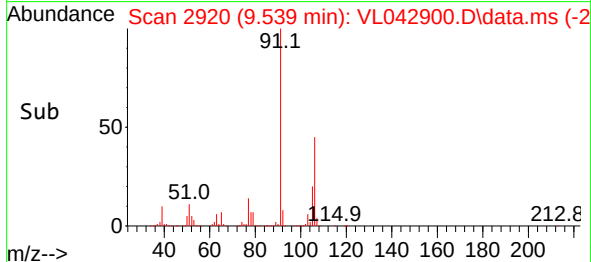
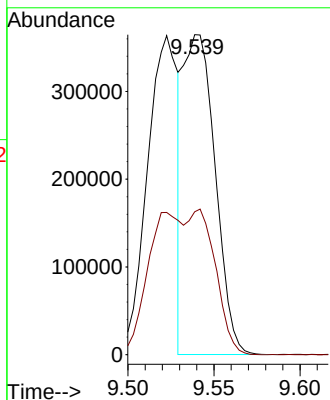
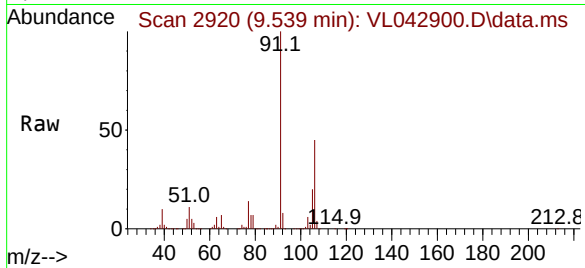




#59
m/p-Xylene
Concen: 11.981 ppbv
RT: 9.539 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

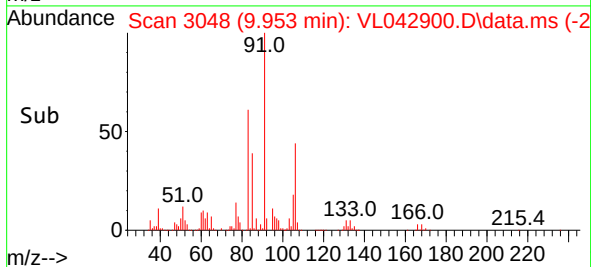
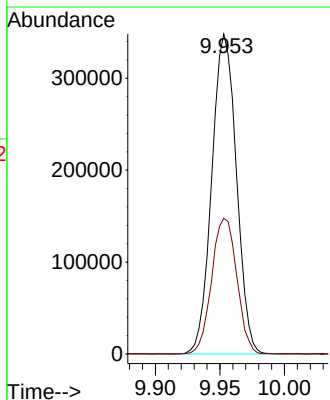
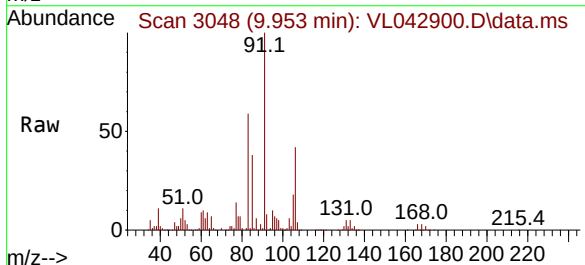
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

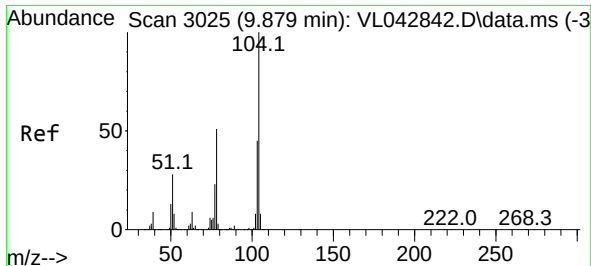
Tgt Ion: 91 Resp: 468620
Ion Ratio Lower Upper
91 100
106 89.4 0.0 0.0#



#60
o-Xylene
Concen: 11.716 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 460968
Ion Ratio Lower Upper
91 100
106 43.4 21.8 65.4

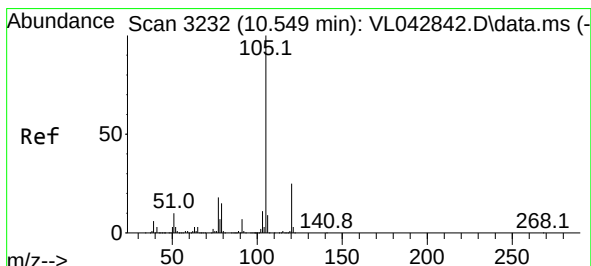
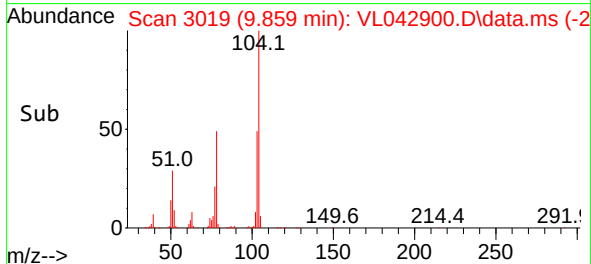
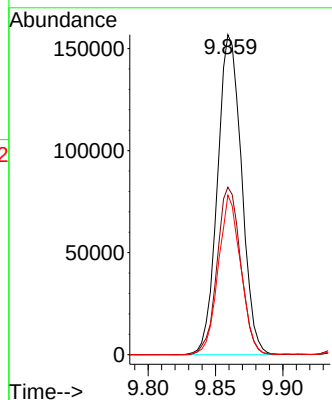
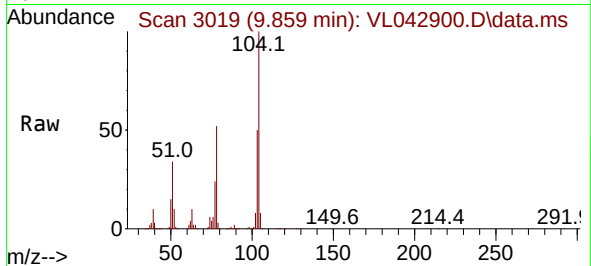




#61
Styrene
Concen: 10.579 ppbv
RT: 9.859 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

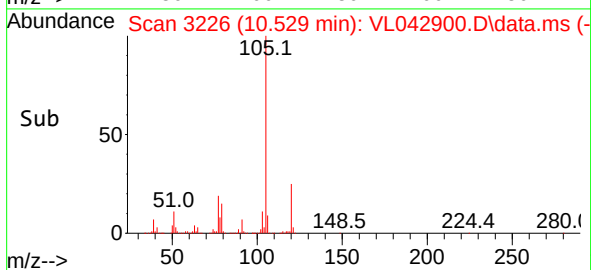
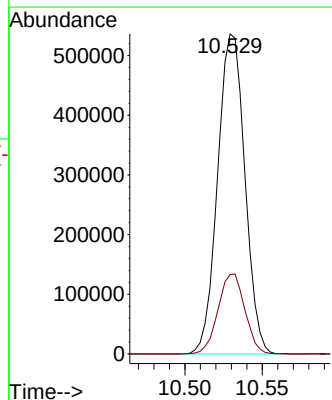
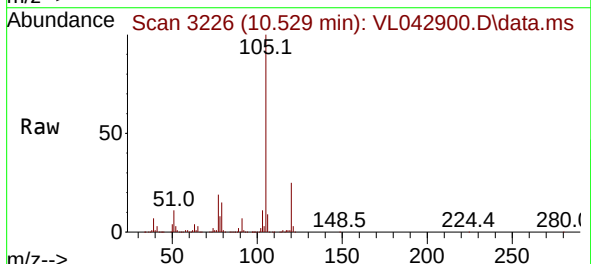
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

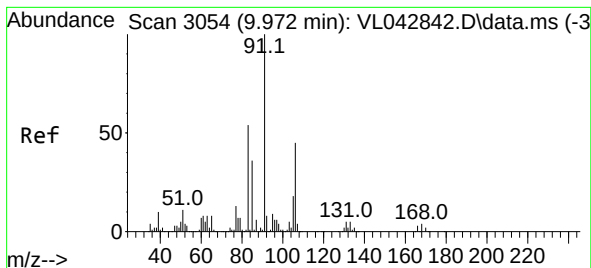
Tgt Ion:104 Resp: 195007
Ion Ratio Lower Upper
104 100
78 51.3 40.6 61.0
103 46.6 37.7 56.5



#62
Isopropylbenzene
Concen: 11.394 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 655164
Ion Ratio Lower Upper
105 100
120 24.5 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 12.314 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

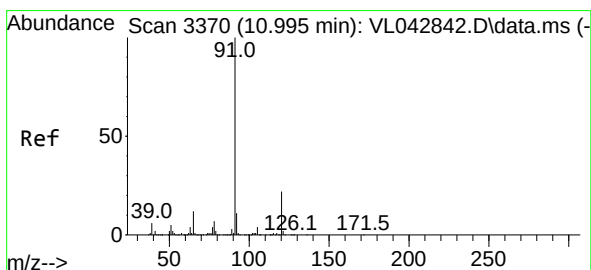
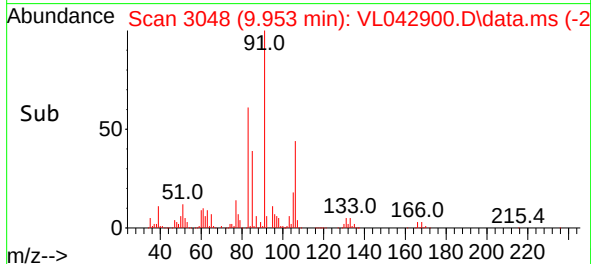
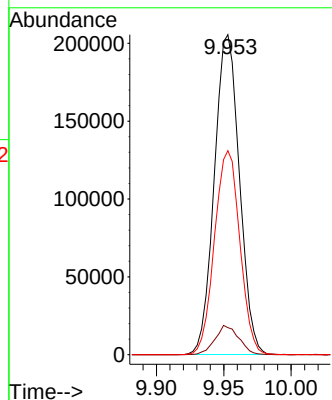
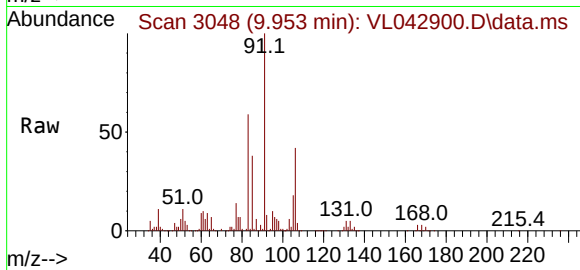
Tgt Ion: 83 Resp: 266435

Ion Ratio Lower Upper

83 100

131 8.7 4.8 14.3

85 64.5 32.3 96.8



#64

n-propylbenzene

Concen: 11.220 ppbv

RT: 10.979 min Scan# 3365

Delta R.T. 0.000 min

Lab File: VL042900.D

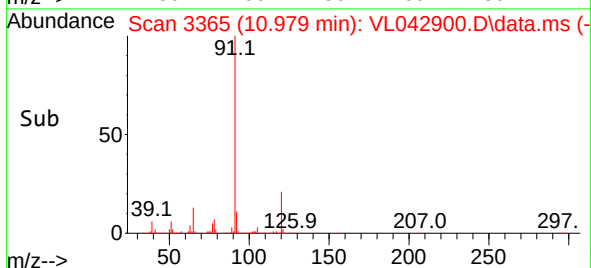
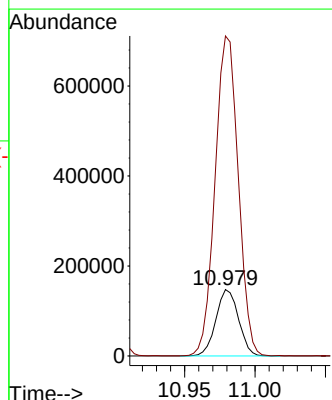
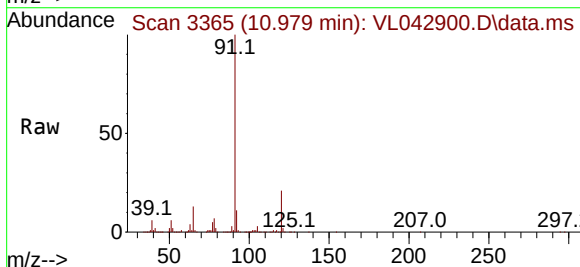
Acq: 08 Sep 2025 11:05

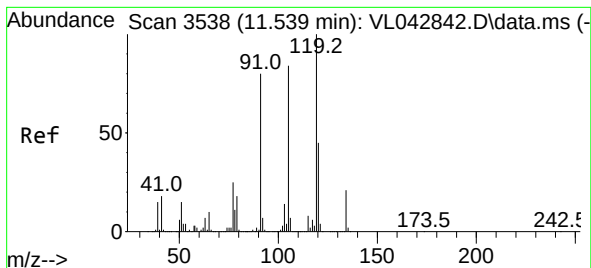
Tgt Ion: 120 Resp: 164610

Ion Ratio Lower Upper

120 100

91 495.9 375.8 563.6

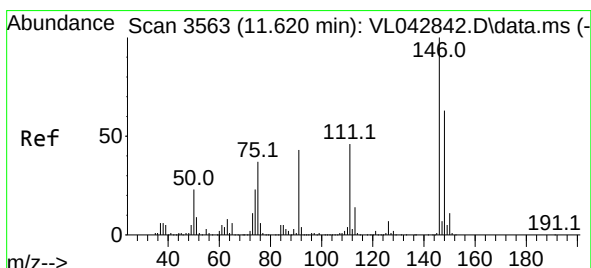
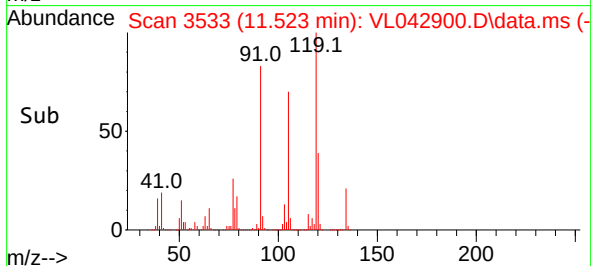
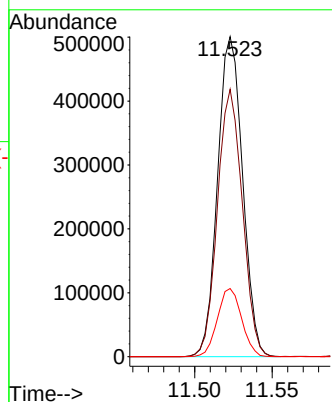
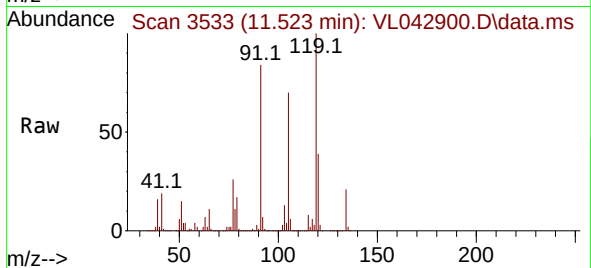




#65
tert-Butylbenzene
Concen: 11.075 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

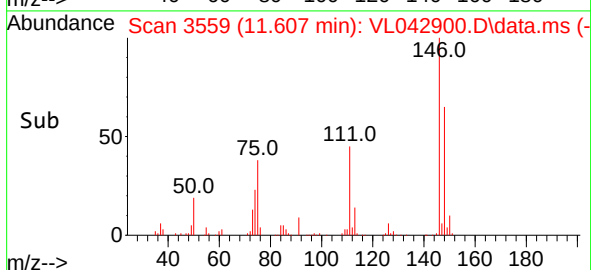
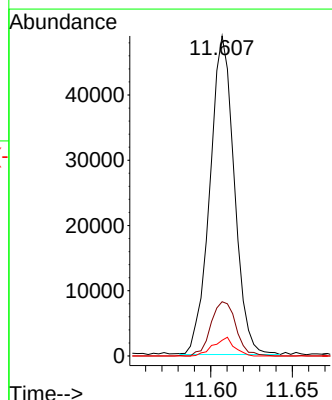
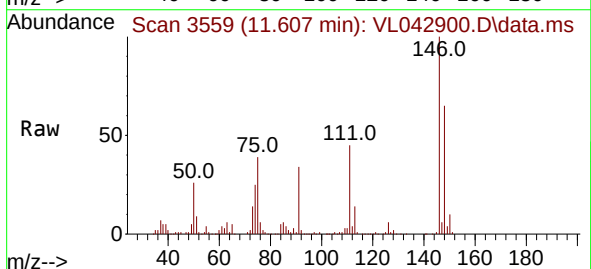
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

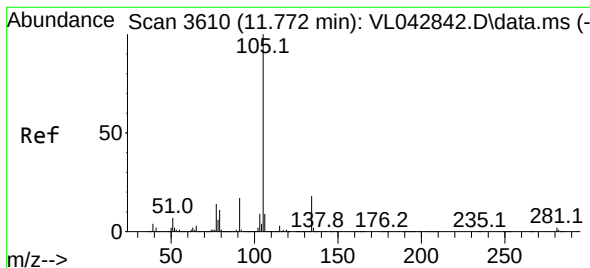
Tgt Ion:119 Resp: 561409
Ion Ratio Lower Upper
119 100
91 83.4 63.9 95.9
134 20.6 17.0 25.4



#66
Benzyl Chloride
Concen: 7.895 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 50803
Ion Ratio Lower Upper
91 100
126 17.5 14.2 21.4
128 5.0 5.0 7.6#





#67

sec-Butylbenzene

Concen: 11.709 ppbv

RT: 11.759 min Scan# 3606

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_1

ClientSampleId :

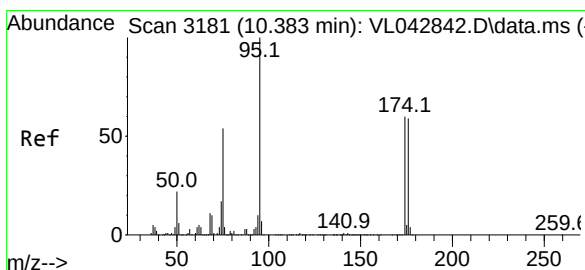
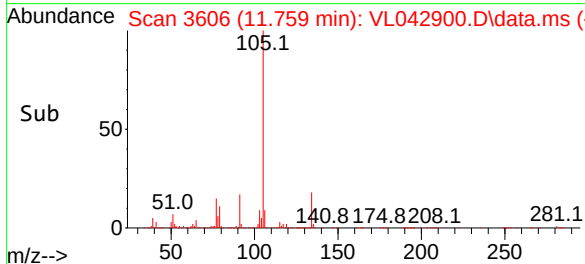
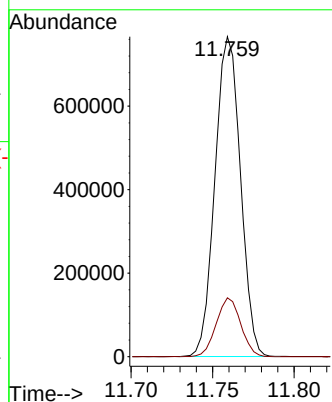
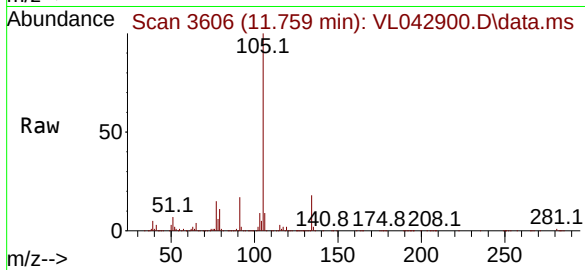
VSTDCCC010

Tgt Ion:105 Resp: 833114

Ion Ratio Lower Upper

105 100

134 17.7 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.483 ppbv

RT: 10.364 min Scan# 3175

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

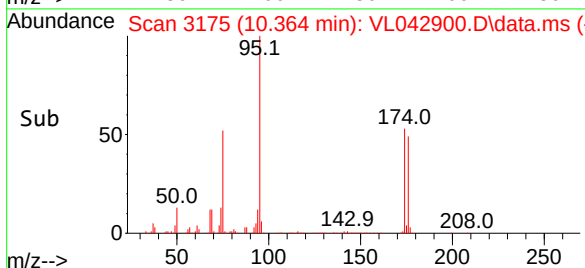
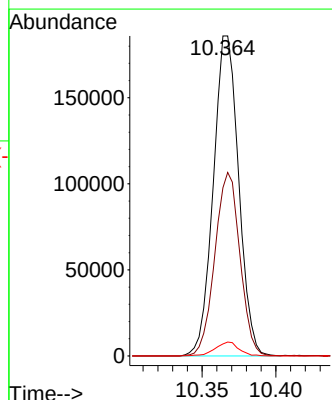
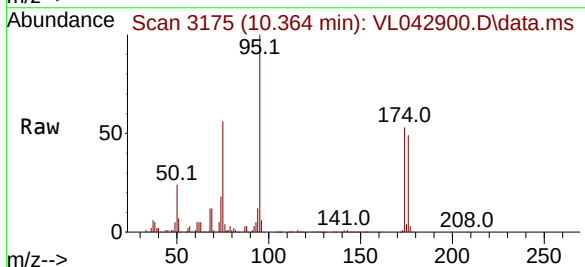
Tgt Ion: 95 Resp: 222314

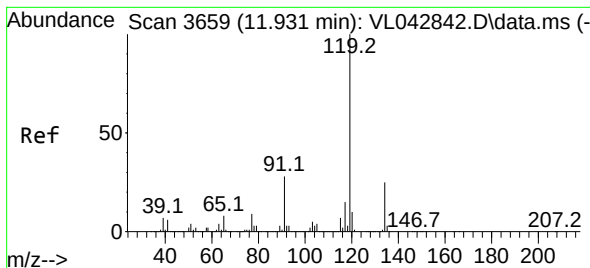
Ion Ratio Lower Upper

95 100

174 56.8 48.4 72.6

175 4.1 3.8 5.8

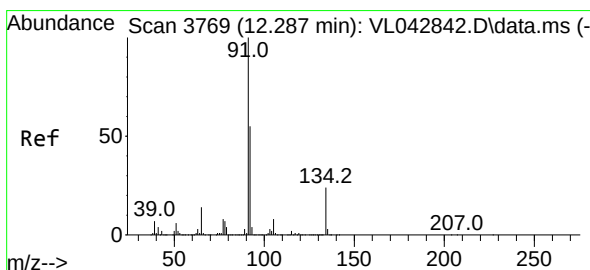
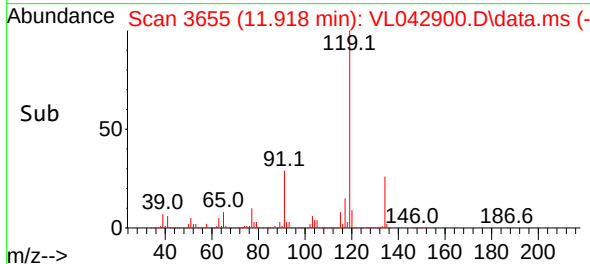
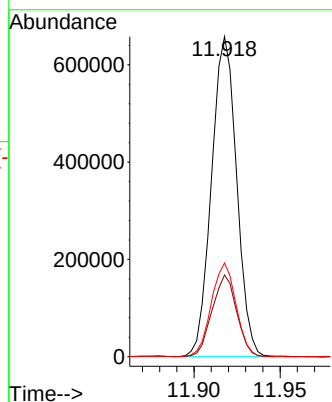
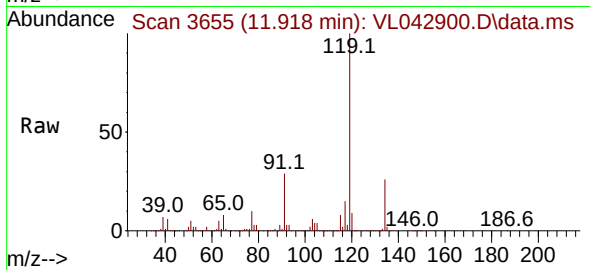




#69
 p-Isopropyltoluene
 Concen: 10.929 ppbv
 RT: 11.918 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

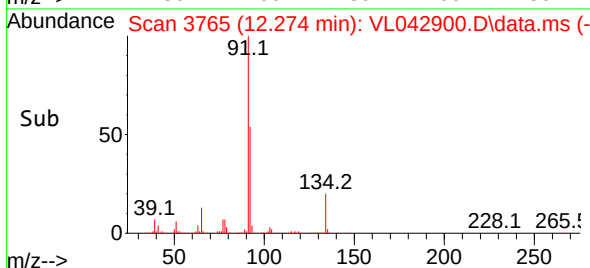
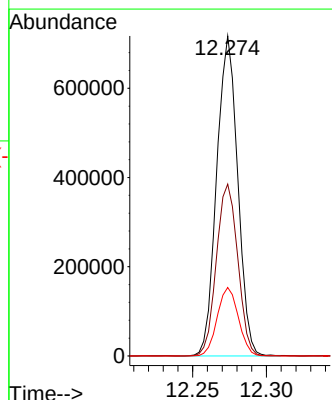
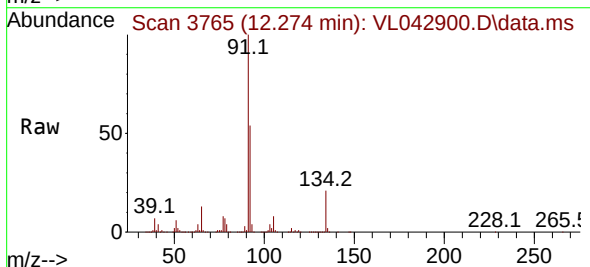
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

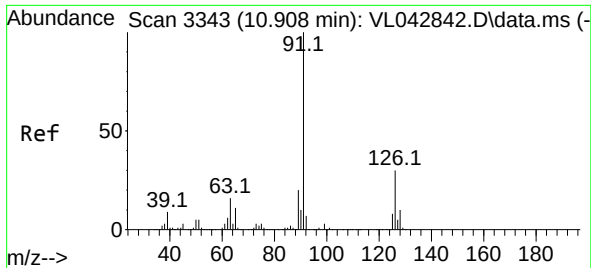
Tgt Ion:119 Resp: 667558
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.6 30.8
 91 29.0 22.6 34.0



#70
 n-Butylbenzene
 Concen: 11.736 ppbv
 RT: 12.274 min Scan# 3765
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 711012
 Ion Ratio Lower Upper
 91 100
 92 54.7 44.6 66.8
 134 21.6 19.0 28.4

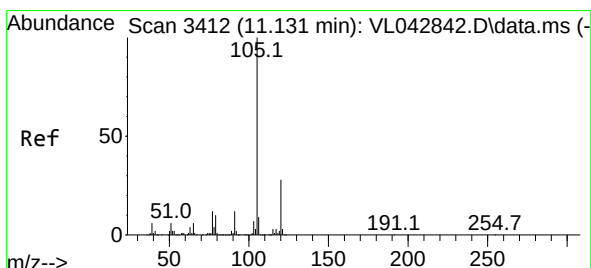
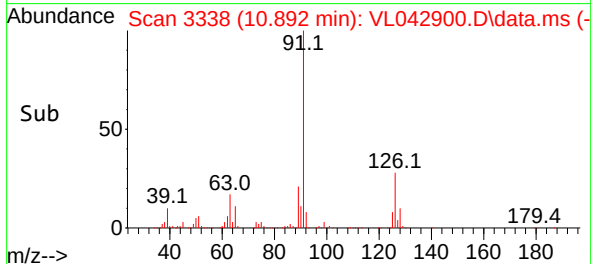
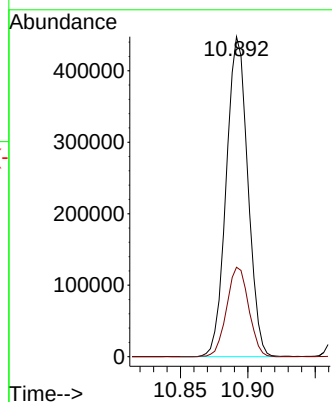
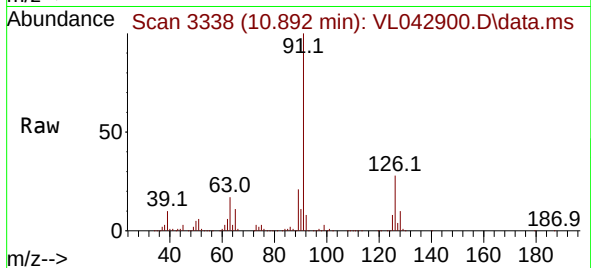




#71
2-Chlorotoluene
Concen: 11.156 ppbv
RT: 10.892 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

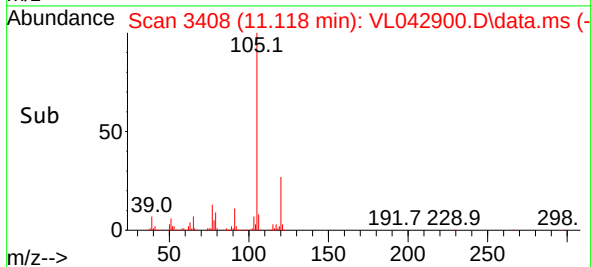
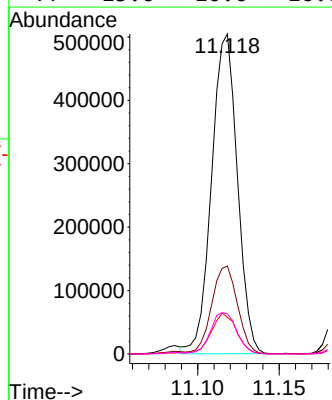
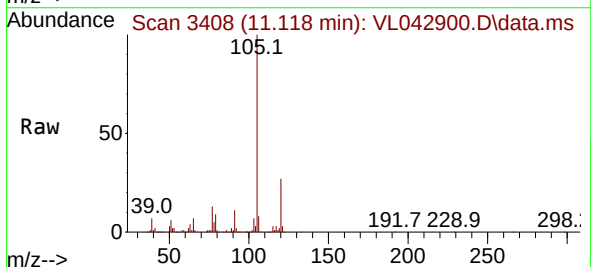
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

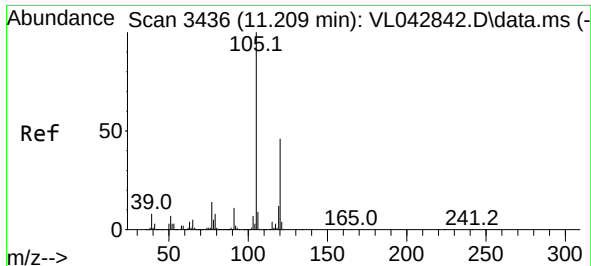
Tgt Ion: 91 Resp: 498072
Ion Ratio Lower Upper
91 100
126 28.5 12.0 47.8



#72
4-Ethyltoluene
Concen: 11.624 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 105 Resp: 554411
Ion Ratio Lower Upper
105 100
120 28.3 23.4 35.2
91 12.9 9.8 14.6
77 13.6 10.6 16.0

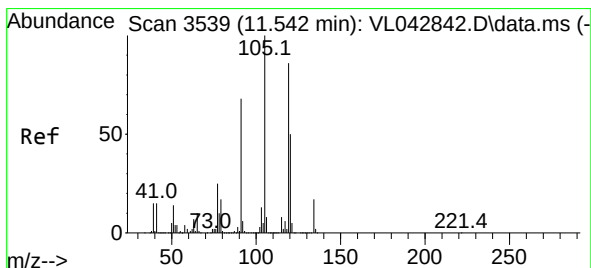
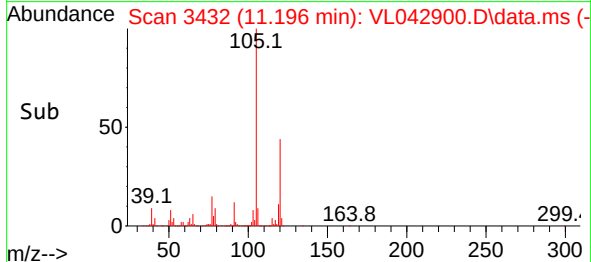
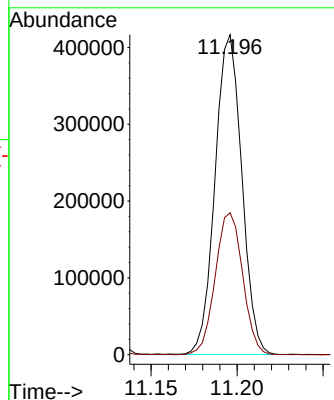
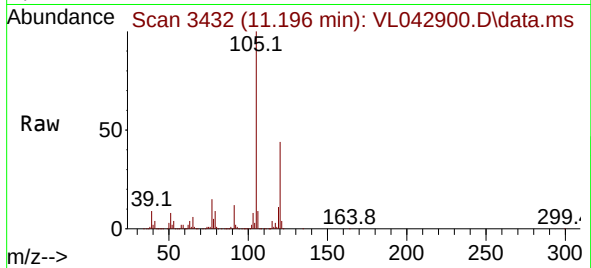




#73
 1,3,5-Trimethylbenzene
 Concen: 11.105 ppbv
 RT: 11.196 min Scan# 3436
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

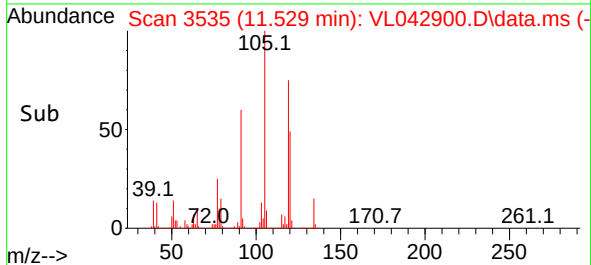
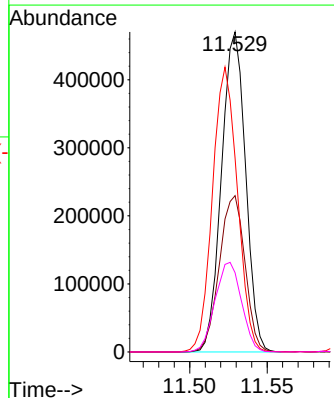
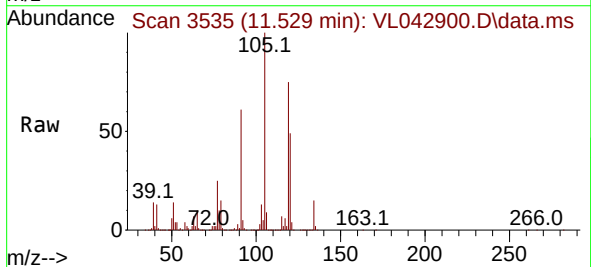
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

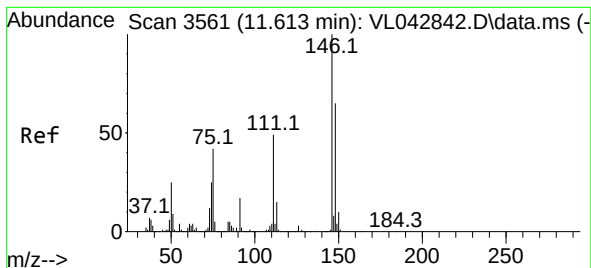
Tgt Ion:105 Resp: 450409
 Ion Ratio Lower Upper
 105 100
 120 44.3 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 11.424 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 508605
 Ion Ratio Lower Upper
 105 100
 120 48.8 39.8 59.6
 91 60.5 54.2 81.4
 77 24.8 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 11.445 ppbv

RT: 11.597 min Scan# 3556

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

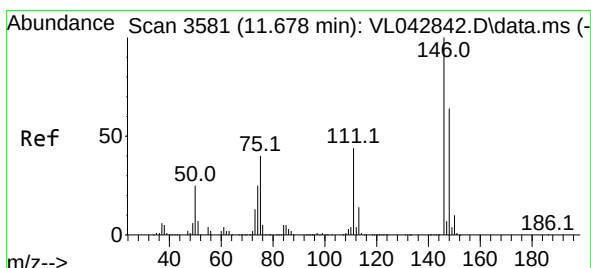
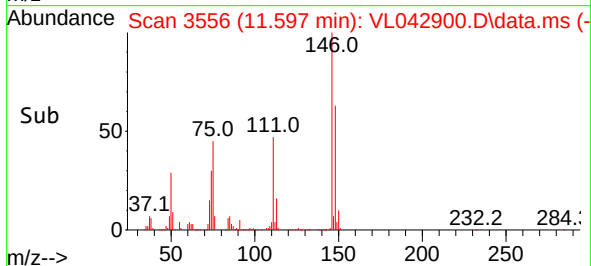
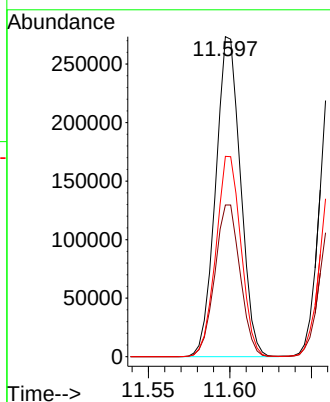
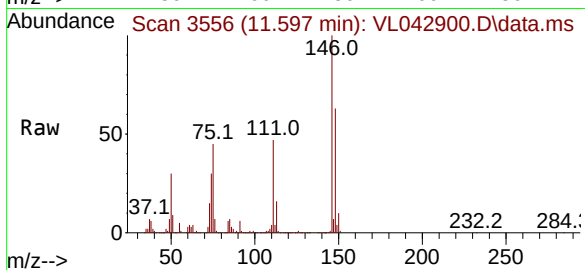
Tgt Ion:146 Resp: 289650

Ion Ratio Lower Upper

146 100

111 48.4 23.9 71.7

148 63.1 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 11.226 ppbv

RT: 11.662 min Scan# 3576

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

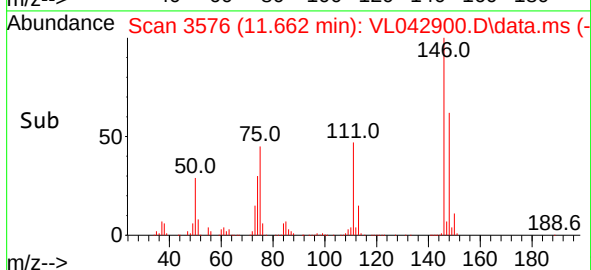
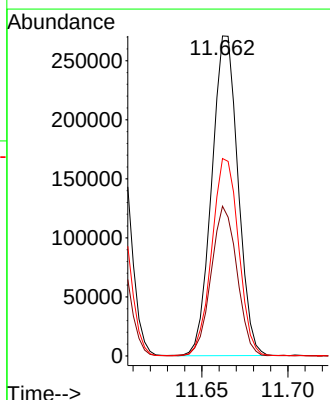
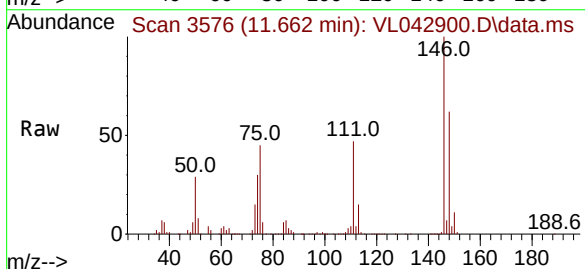
Tgt Ion:146 Resp: 287352

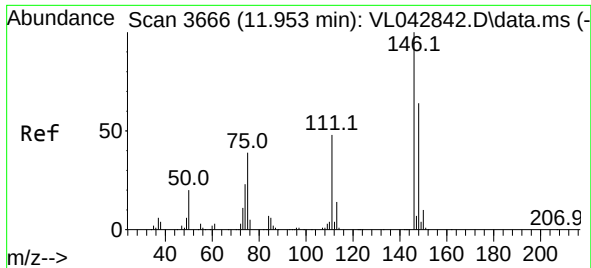
Ion Ratio Lower Upper

146 100

111 46.3 22.7 68.1

148 63.2 31.8 95.3

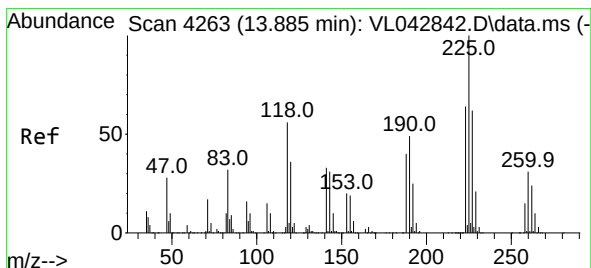
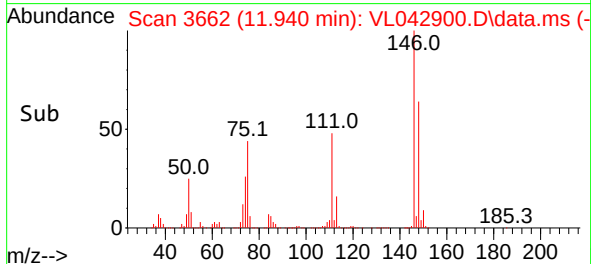
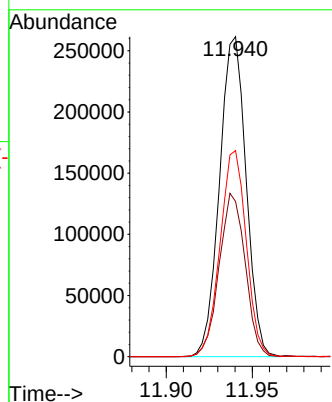
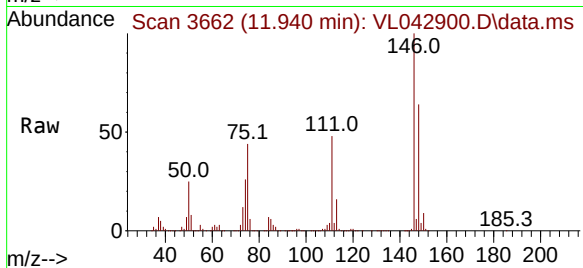




#77
1,2-Dichlorobenzene
Concen: 11.351 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

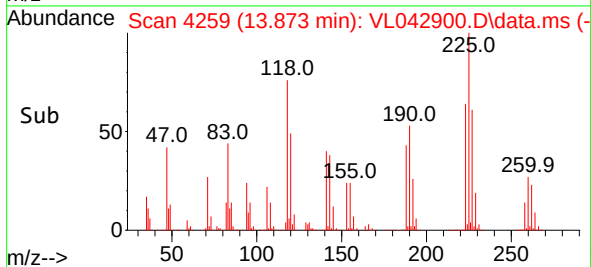
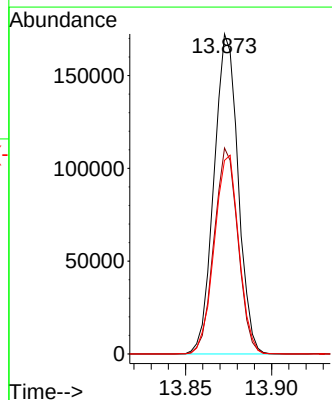
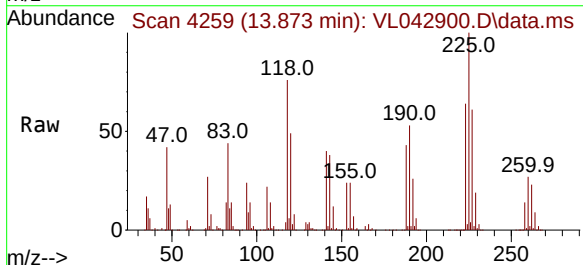
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

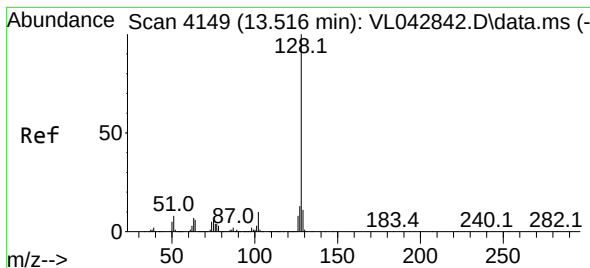
Tgt Ion:146 Resp: 281307
Ion Ratio Lower Upper
146 100
111 50.0 24.6 74.0
148 63.5 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 8.266 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:225 Resp: 167893
Ion Ratio Lower Upper
225 100
223 63.8 51.4 77.2
227 63.3 51.9 77.9





#79

Naphthalene

Concen: 10.613 ppbv

RT: 13.504 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

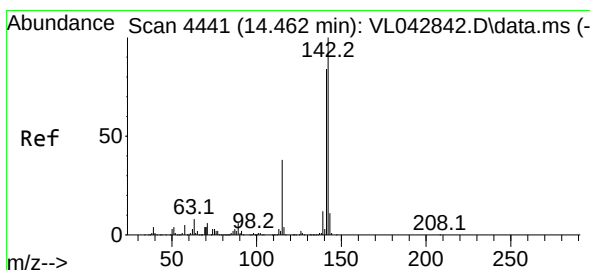
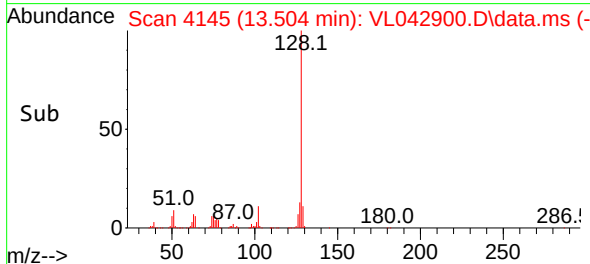
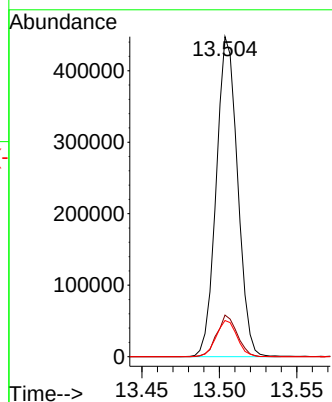
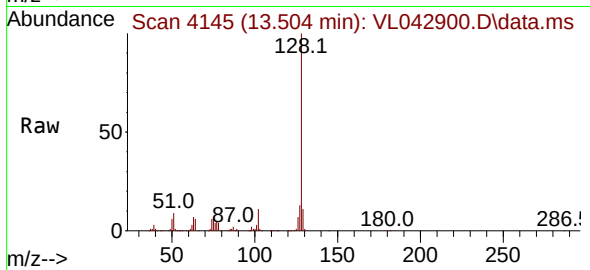
Tgt Ion:128 Resp: 428355

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 11.3 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 8.470 ppbv

RT: 14.449 min Scan# 4437

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

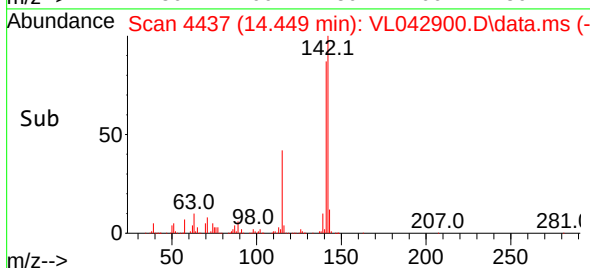
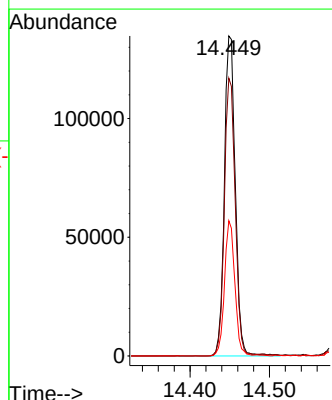
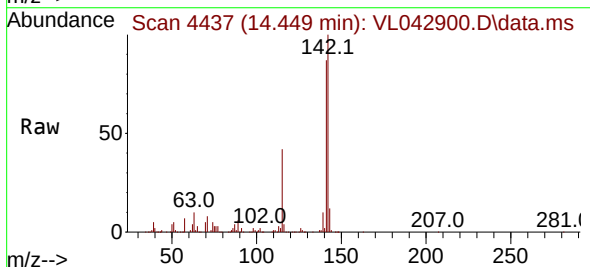
Tgt Ion:142 Resp: 127751

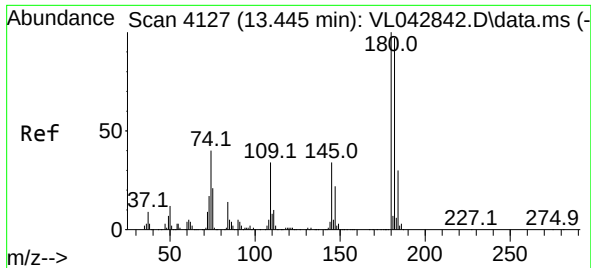
Ion Ratio Lower Upper

142 100

141 87.4 67.0 100.6

115 40.4 30.9 46.3

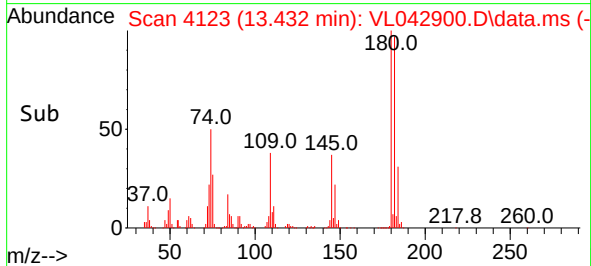
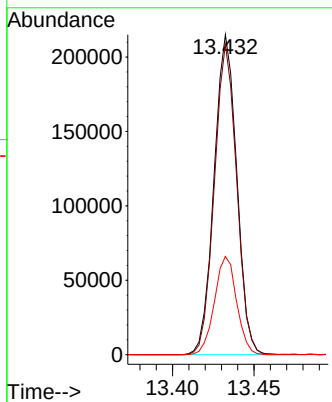
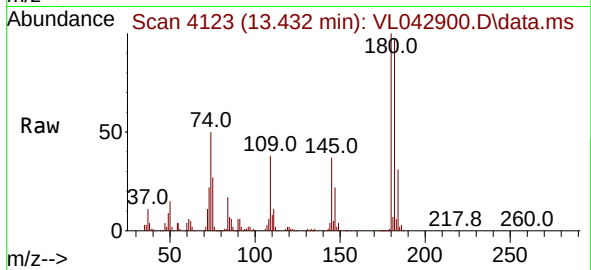




#81
 1,2,4-Trichlorobenzene
 Concen: 10.226 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 207455
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.9 115.3
 184 30.0 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Quant Time: Sep 09 00:55:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	139945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	365857	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306385	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	240840	10.481	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	220085	10.731	ppbv	99
3) Chlorodifluoromethane	1.470	51	263595	11.627	ppbv	98
4) Chloromethane	1.528	50	84783	10.244	ppbv	99
5) Vinyl Chloride	1.577	62	78545	9.636	ppbv	99
6) Bromomethane	1.664	94	31405	9.636	ppbv	96
7) Chloroethane	1.700	64	30810	9.679	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	175617	10.464	ppbv	96
9) Propene	1.881	41	9206	0.940	ppbv	99
10) Heptane	4.965	43	256593	9.785	ppbv	99
11) Trichlorofluoromethane	1.871	101	206104	10.185	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	164464	10.197	ppbv	96
13) Ethanol	1.716	45	7225	8.071	ppbv	92
14) Bromoethene	1.777	108	58442	10.009	ppbv	99
15) Acetone	1.829	43	156147	8.435	ppbv	99
16) 1,3-Butadiene	1.606	39	77632	9.250	ppbv	97
17) tert-Butyl alcohol	2.036	59	176056	8.020	ppbv	99
18) 1,1-Dichloroethene	2.026	96	68830	9.707	ppbv	97
19) Isopropyl Alcohol	1.881	45	97198	8.791	ppbv	93
20) Methylene Chloride	2.056	84	62334	8.038	ppbv	93
21) Allyl Chloride	2.091	41	125191	9.573	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	82077	10.005	ppbv	98
23) Vinyl Acetate	2.454	43	270676	10.634	ppbv #	99
24) 1,1-Dichloroethane	2.402	63	164910	10.066	ppbv	99
25) Ethyl Acetate	2.826	43	458640	10.237	ppbv	99
26) Hexane	2.816	57	207705	10.043	ppbv	95
27) Carbon Disulfide	2.143	76	206751	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	95768	9.082	ppbv	93
29) Chloroform	2.839	83	311859	10.562	ppbv	97
30) Cyclohexane	3.845	84	169353	9.340	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	202349	9.796	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	293618	9.409	ppbv	96
34) 2-Butanone	2.551	43	298071	12.066	ppbv	98
35) Carbon Tetrachloride	3.748	117	297085	11.779	ppbv	98
36) Benzene	3.645	78	407263	11.625	ppbv	99
37) 1,2-Dichloroethane	3.208	62	232809	12.720	ppbv	99
38) Trichloroethene	4.532	130	166529	10.408	ppbv	96
39) 1,2-Dichloropropane	4.302	63	153042	11.961	ppbv	96
40) 1,4-Dioxane	4.567	88	61682	10.138	ppbv #	88
41) Tetrahydrofuran	3.046	42	164268	11.927	ppbv	97
42) Bromodichloromethane	4.473	83	336858	12.351	ppbv	98
43) Methyl Methacrylate	4.862	69	158457	10.979	ppbv	98
44) 2,2,4-Trimethylpentane	4.625	57	701486	11.797	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	169435	10.403	ppbv	97

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 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

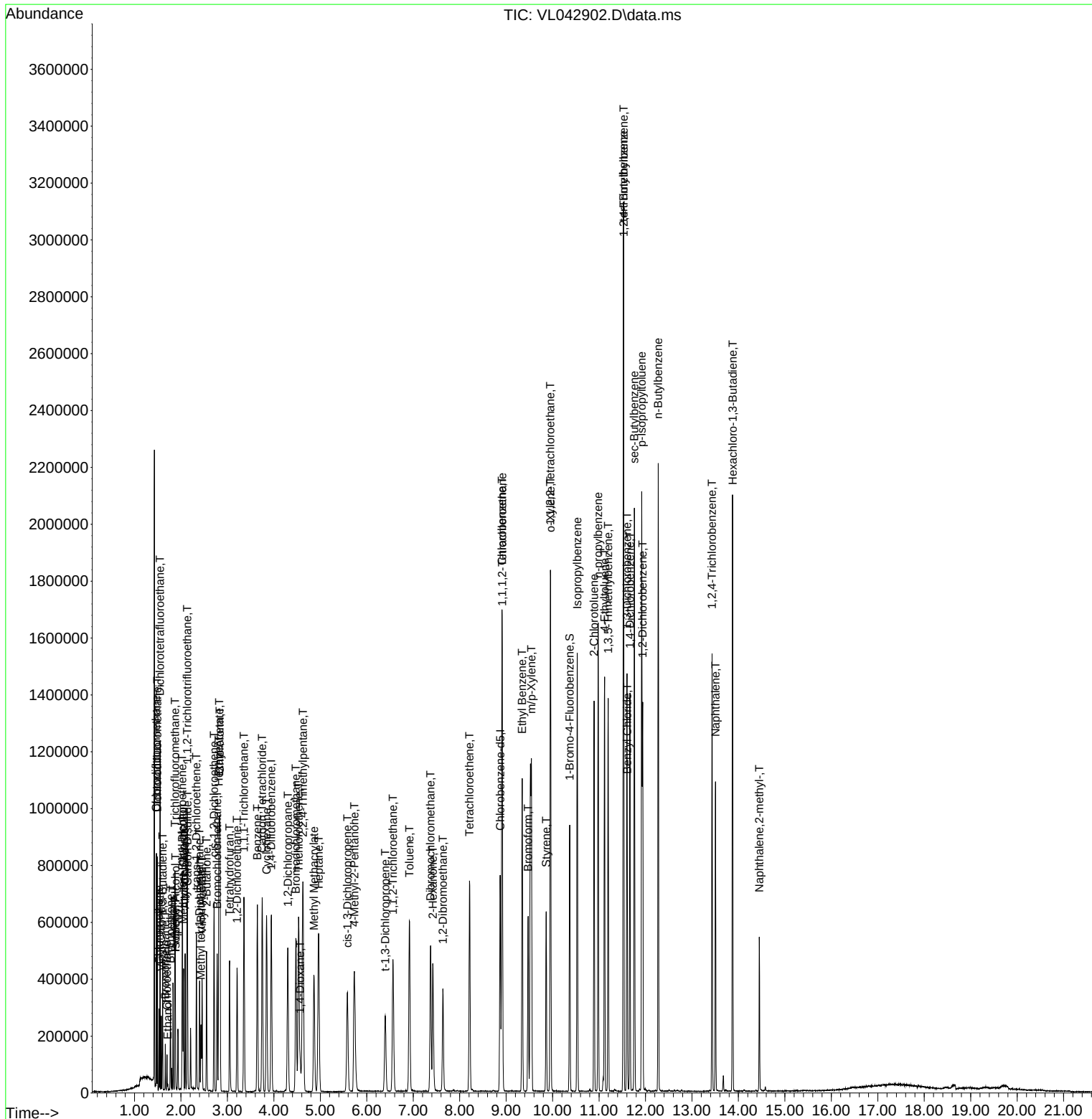
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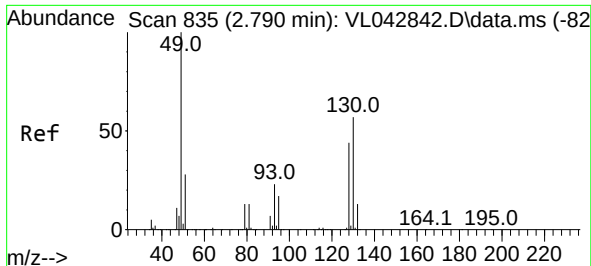
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	223871	11.031	ppbv	96
47) 1,1,2-Trichloroethane	6.564	97	156460	11.541	ppbv	95
48) Dibromochloromethane	7.373	129	256923	11.712	ppbv	99
49) Bromoform	9.474	173	203018	11.222	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	390291	11.688	ppbv	97
51) 2-Hexanone	7.422	43	311589	11.858	ppbv #	95
52) Tetrachloroethene	8.212	164	122229	9.644	ppbv	93
53) Toluene	6.920	91	447844	10.752	ppbv	99
54) 1,2-Dibromoethane	7.639	107	223417	11.277	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.917	131	190922	12.050	ppbv	98
57) Chlorobenzene	8.911	112	345342	11.855	ppbv	99
58) Ethyl Benzene	9.344	91	618650	11.442	ppbv	99
59) m/p-Xylene	9.542	91	483410	11.407	ppbv #	100
60) o-Xylene	9.956	91	504922	11.844	ppbv	99
61) Styrene	9.862	104	212594	10.644	ppbv	100
62) Isopropylbenzene	10.532	105	717761	11.521	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	295111	12.588	ppbv	99
64) n-propylbenzene	10.982	120	186258	11.717	ppbv	94
65) tert-Butylbenzene	11.523	119	633844	11.541	ppbv	97
66) Benzyl Chloride	11.607	91	55458	7.954	ppbv	99
67) sec-Butylbenzene	11.759	105	904977	11.739	ppbv	99
69) p-Isopropyltoluene	11.918	119	743217	11.229	ppbv	98
70) n-Butylbenzene	12.274	91	793205	12.084	ppbv	97
71) 2-Chlorotoluene	10.892	91	551398	11.398	ppbv	97
72) 4-Ethyltoluene	11.118	105	613510	11.871	ppbv	99
73) 1,3,5-Trimethylbenzene	11.196	105	505222	11.496	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	562868	11.668	ppbv	99
75) 1,3-Dichlorobenzene	11.600	146	322979	11.778	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	320689	11.563	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	309433	11.524	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	187990	8.542	ppbv	97
79) Naphthalene	13.507	128	477313	10.914	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	142381	8.713	ppbv	97
81) 1,2,4-Trichlorobenzene	13.432	180	228630	10.401	ppbv	99

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

Quant Time: Sep 09 00:55:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
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QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

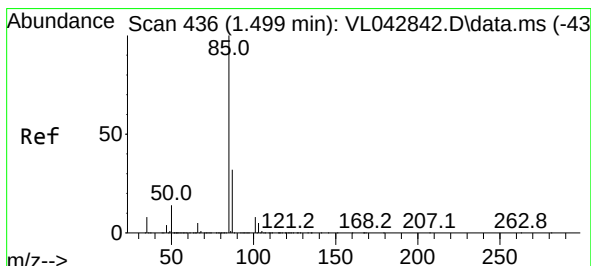
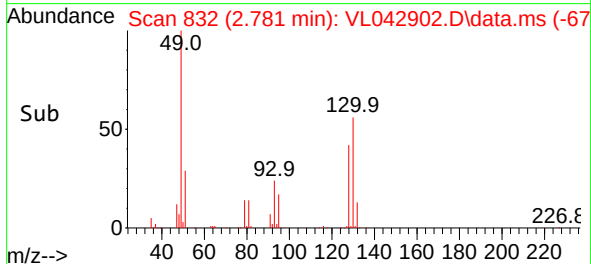
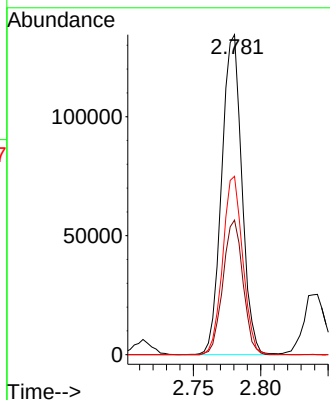
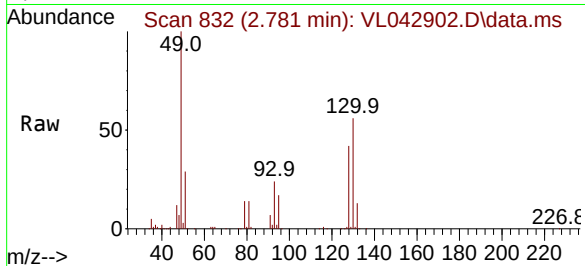




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

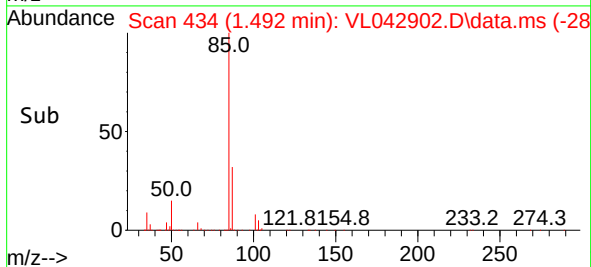
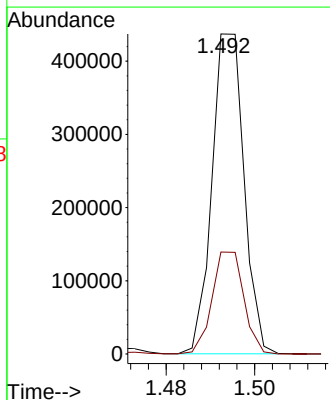
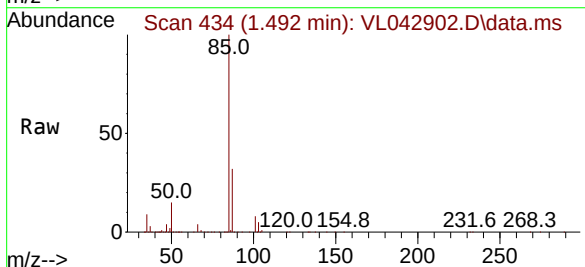
Instrument :
MSVOA_L
ClientSampleId :
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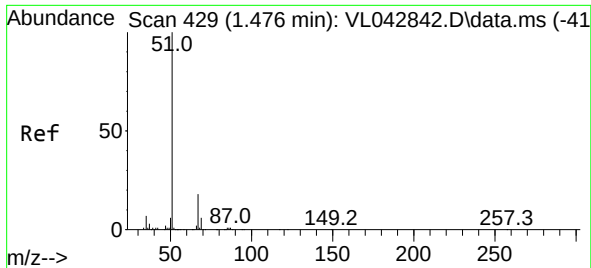
Tgt Ion: 49 Resp: 139945
Ion Ratio Lower Upper
49 100
128 41.6 23.7 71.1
130 55.2 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 10.731 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 220085
Ion Ratio Lower Upper
85 100
87 31.9 25.3 37.9

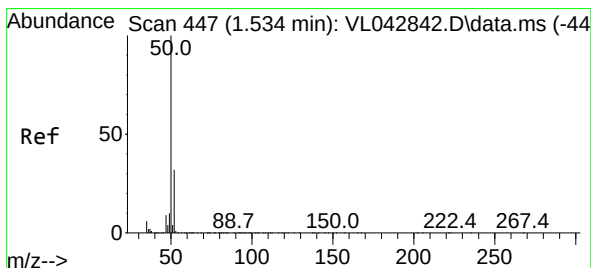
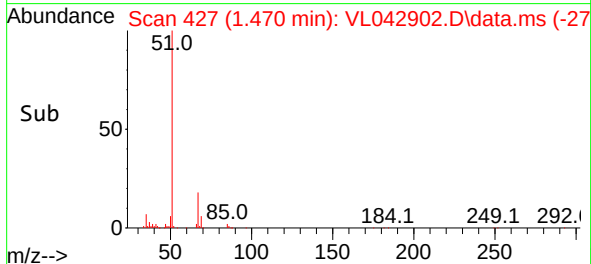
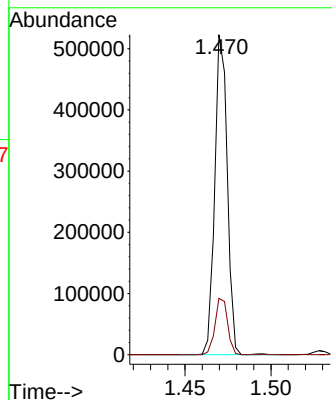
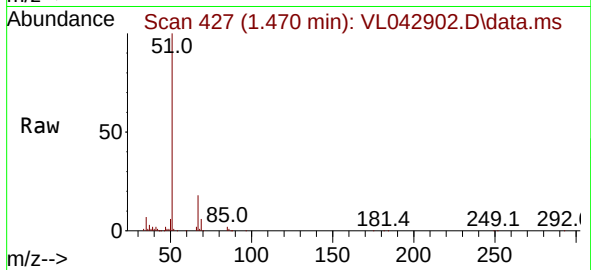




#3
Chlorodifluoromethane
Concen: 11.627 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

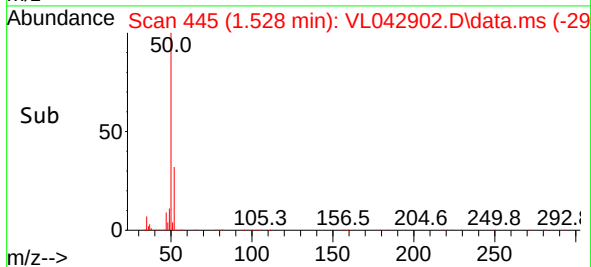
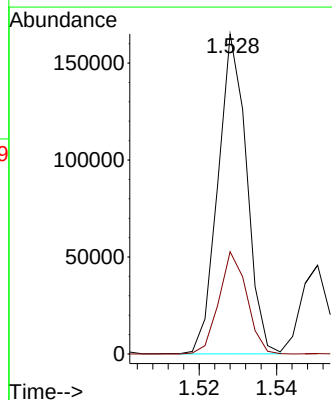
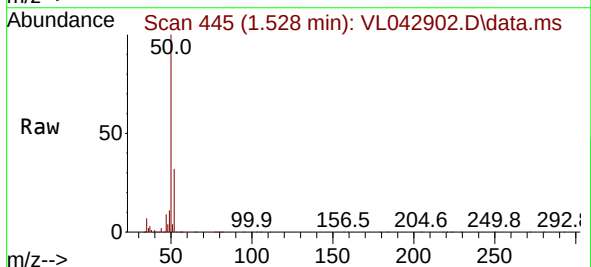
Instrument :
MSVOA_L
ClientSampleId :
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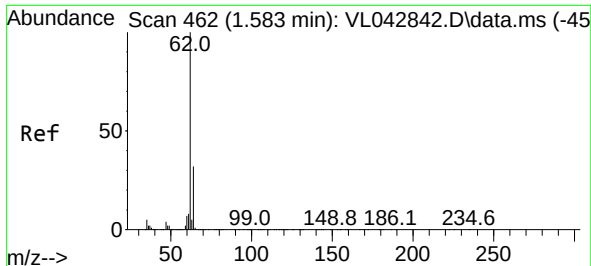
Tgt Ion: 51 Resp: 263595
Ion Ratio Lower Upper
51 100
67 17.8 14.9 22.3



#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 50 Resp: 84783
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9

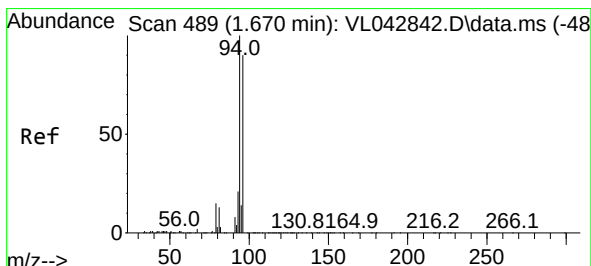
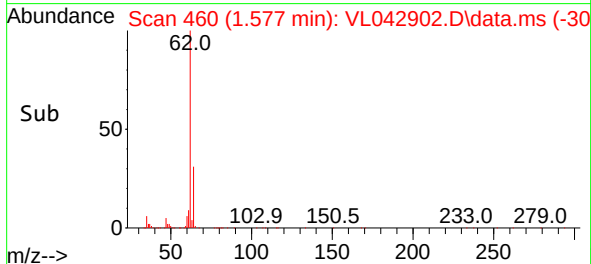
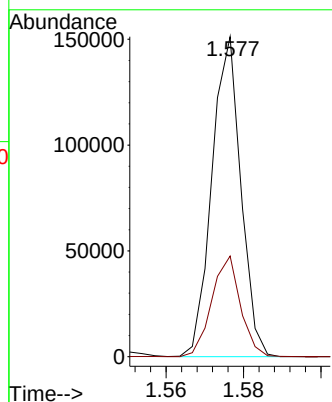
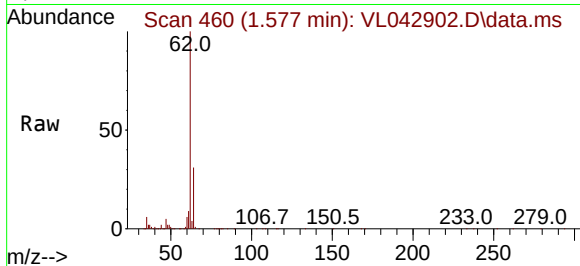




#5
 Vinyl Chloride
 Concen: 9.636 ppbv
 RT: 1.577 min Scan# 4
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

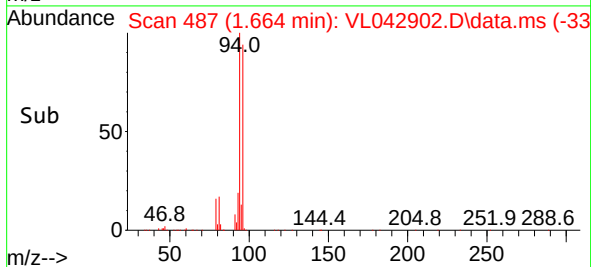
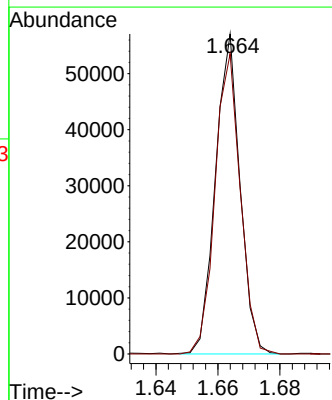
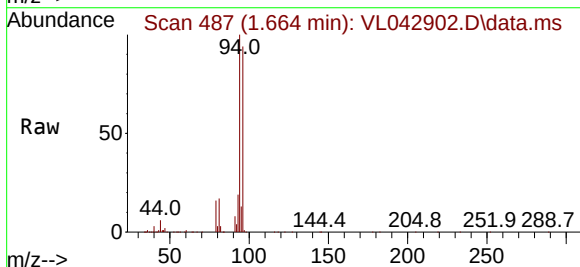
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 ClientSampleId :
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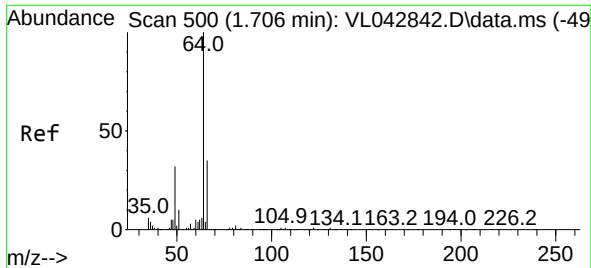
Tgt Ion: 62 Resp: 78545
 Ion Ratio Lower Upper
 62 100
 64 31.5 25.4 38.2



#6
 Bromomethane
 Concen: 9.636 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 94 Resp: 31405
 Ion Ratio Lower Upper
 94 100
 96 93.8 72.1 108.1

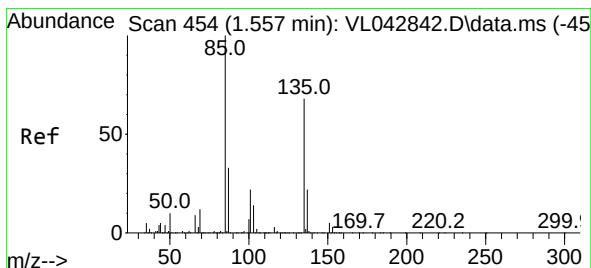
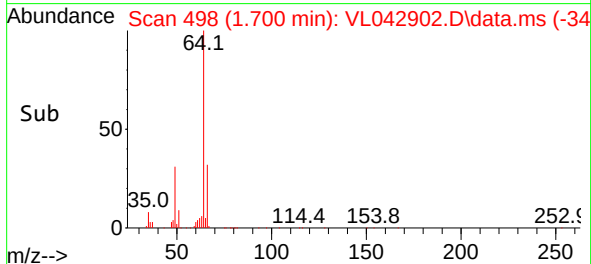
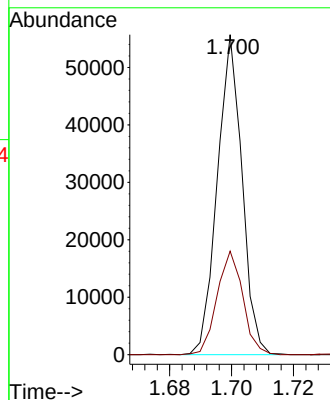
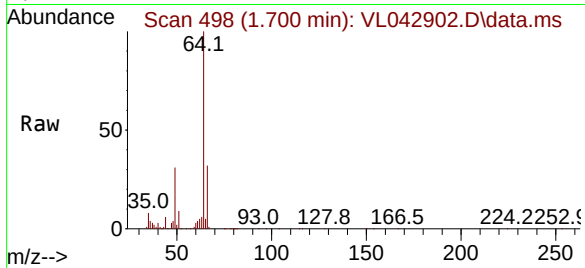




#7
Chloroethane
Concen: 9.679 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

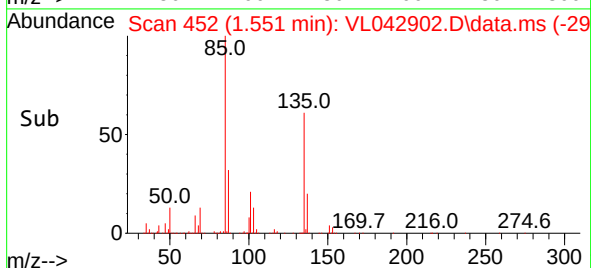
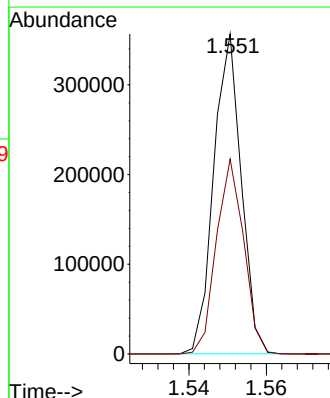
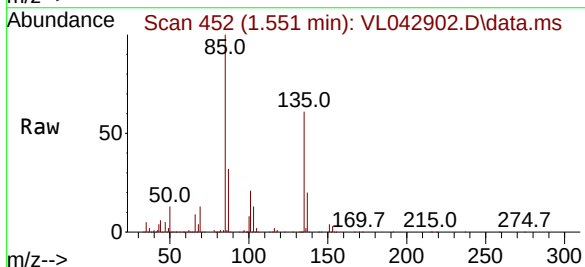
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

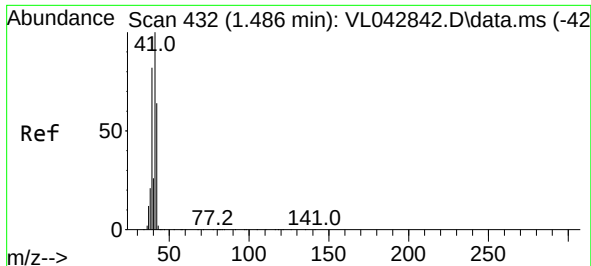
Tgt Ion: 64 Resp: 30810
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 10.464 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 175617
Ion Ratio Lower Upper
85 100
135 60.9 51.2 76.8





#9

Propene

Concen: 0.940 ppbv

RT: 1.881 min Scan# 51

Delta R.T. 0.405 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

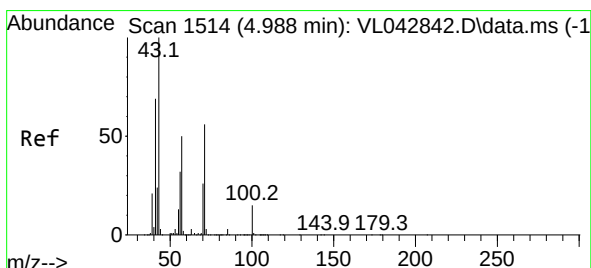
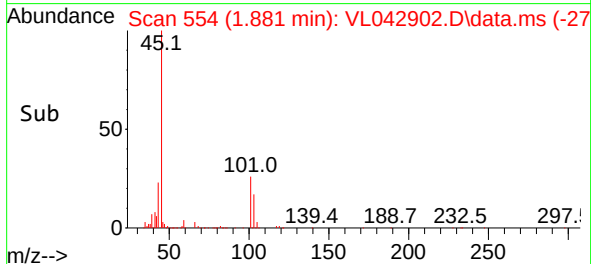
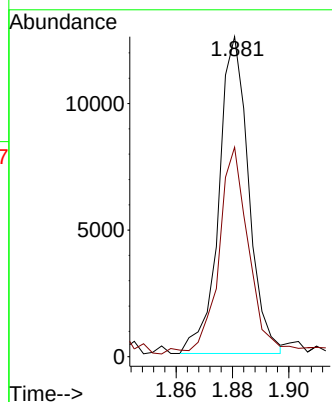
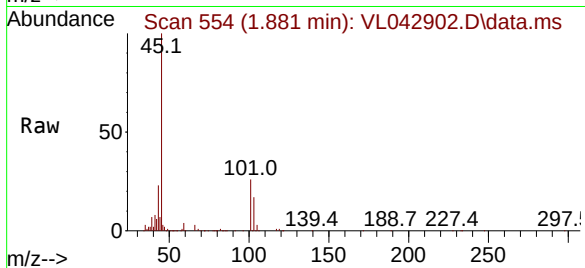
VL0908ABS01

Tgt Ion: 41 Resp: 9206

Ion Ratio Lower Upper

41 100

42 65.5 53.0 79.4



#10

Heptane

Concen: 9.785 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. 0.006 min

Lab File: VL042902.D

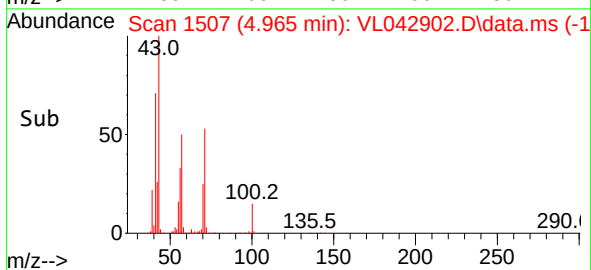
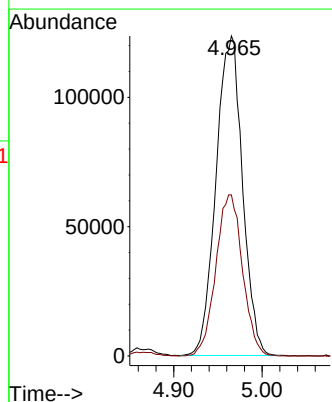
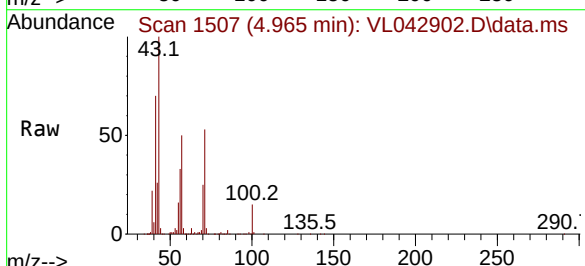
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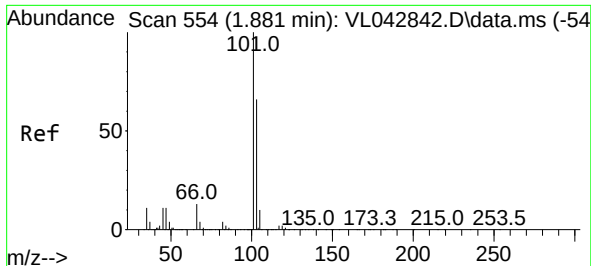
Tgt Ion: 43 Resp: 256593

Ion Ratio Lower Upper

43 100

57 50.9 41.4 62.0

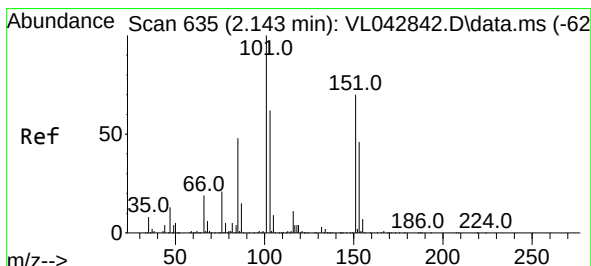
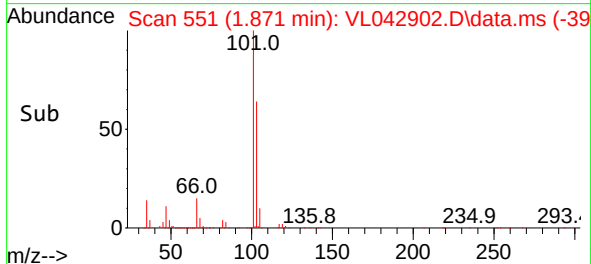
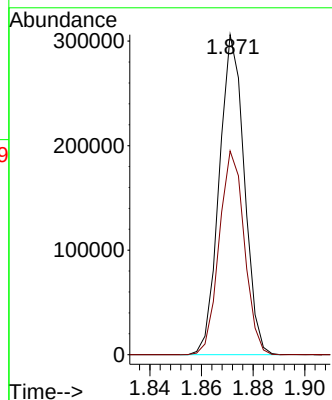
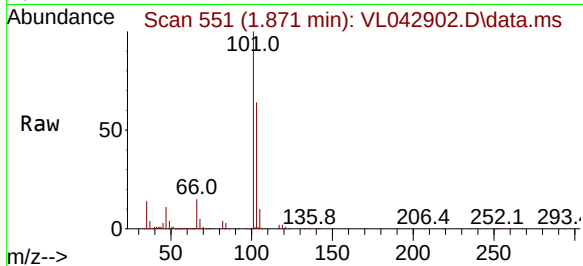




#11
Trichlorofluoromethane
Concen: 10.185 ppbv
RT: 1.871 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

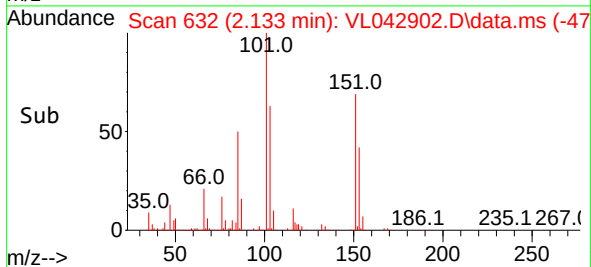
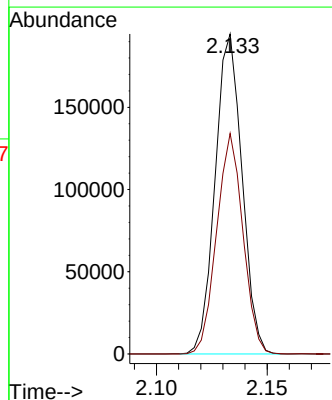
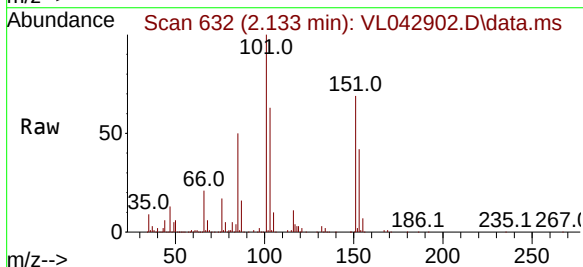
Instrument :
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ClientSampleId :
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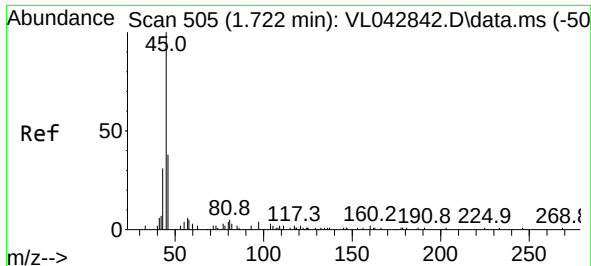
Tgt Ion:101 Resp: 206104
Ion Ratio Lower Upper
101 100
103 63.6 52.5 78.7



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.197 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:101 Resp: 164464
Ion Ratio Lower Upper
101 100
151 67.4 56.4 84.6

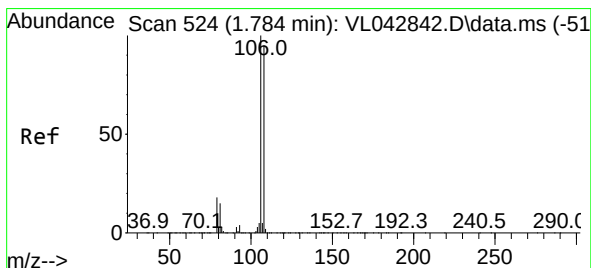
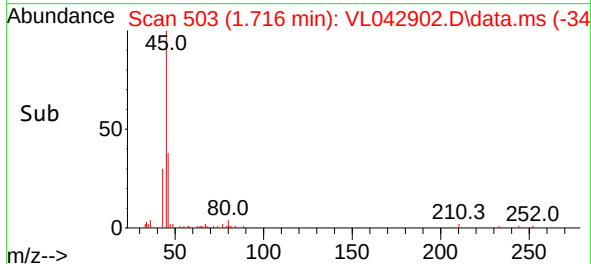
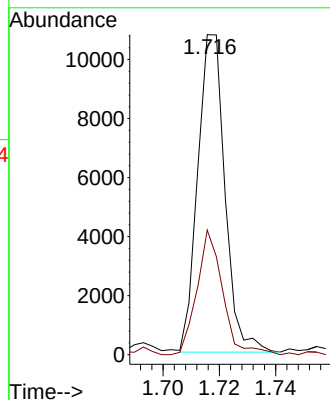
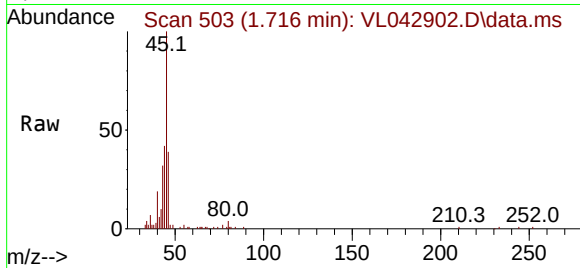




#13
 Ethanol
 Concen: 8.071 ppbv
 RT: 1.716 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

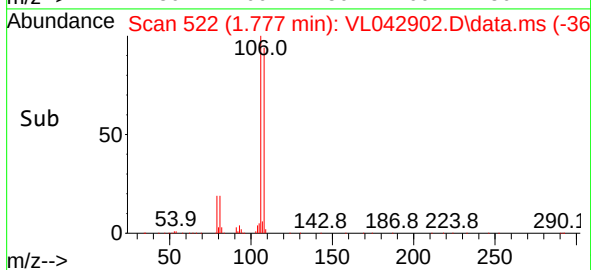
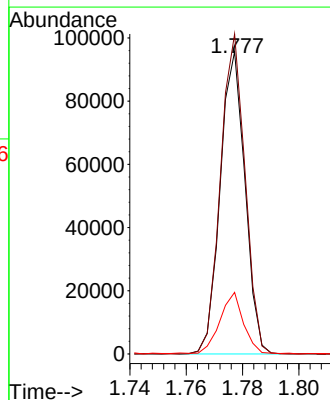
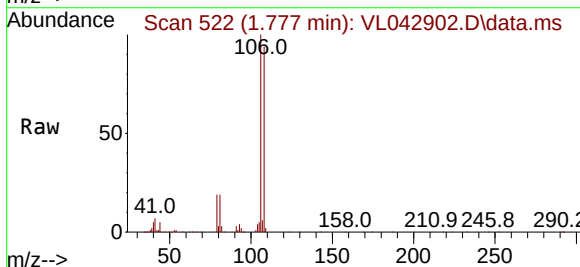
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

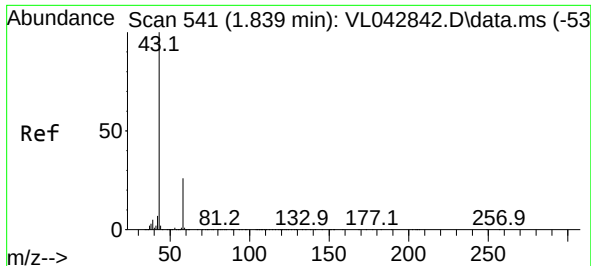
Tgt Ion: 45 Resp: 7225
 Ion Ratio Lower Upper
 45 100
 46 38.4 17.5 69.9



#14
 Bromoethene
 Concen: 10.009 ppbv
 RT: 1.777 min Scan# 522
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 108 Resp: 58442
 Ion Ratio Lower Upper
 108 100
 106 104.8 85.1 127.7
 79 20.1 16.3 24.5

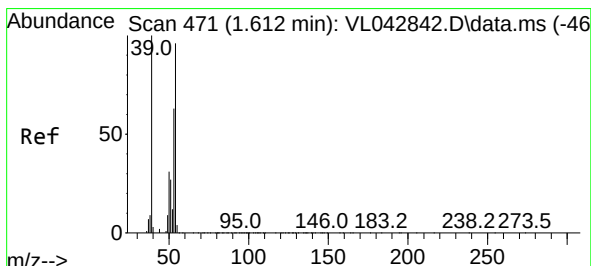
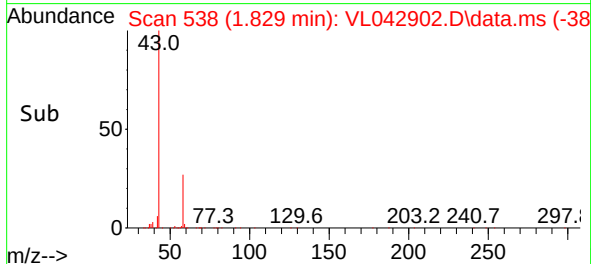
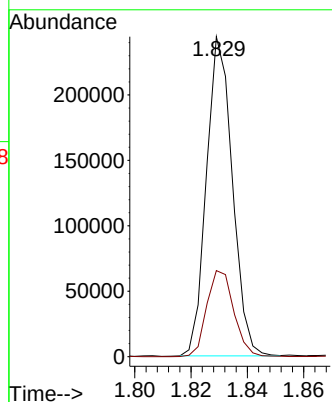
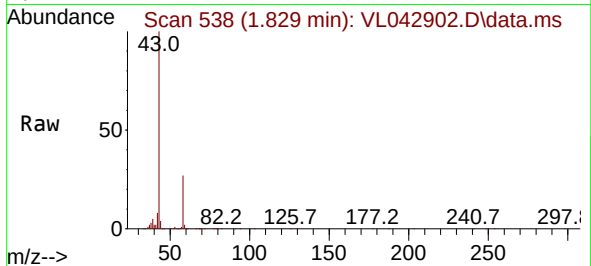




#15
Acetone
Concen: 8.435 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

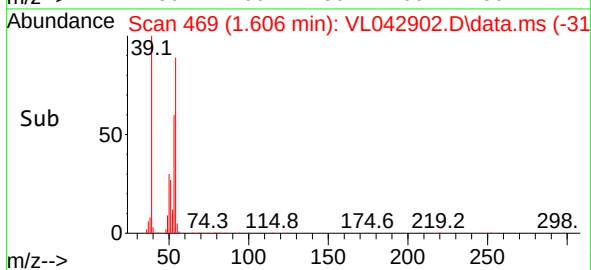
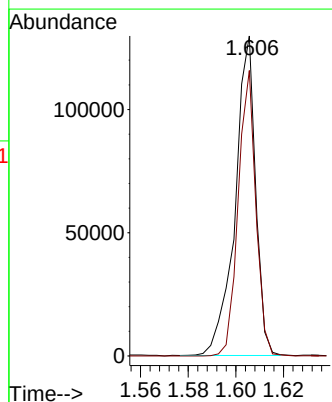
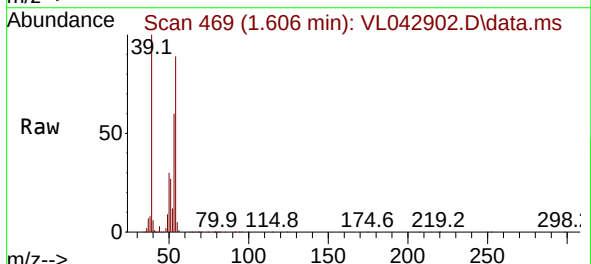
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

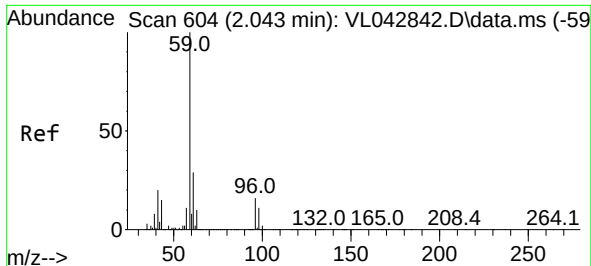
Tgt Ion: 43 Resp: 156147
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6



#16
1,3-Butadiene
Concen: 9.250 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 39 Resp: 77632
Ion Ratio Lower Upper
39 100
54 76.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.020 ppbv

RT: 2.036 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

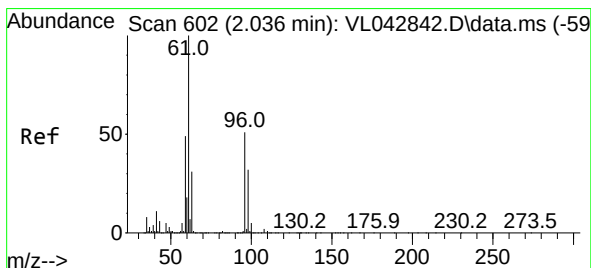
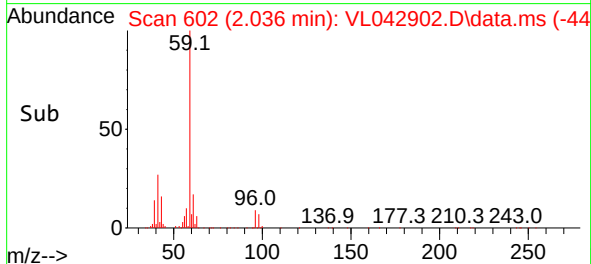
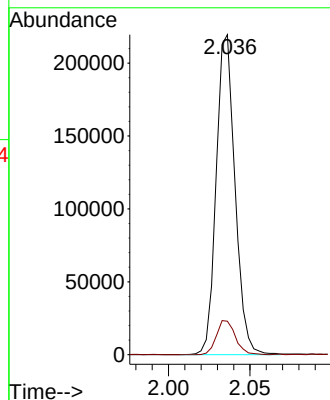
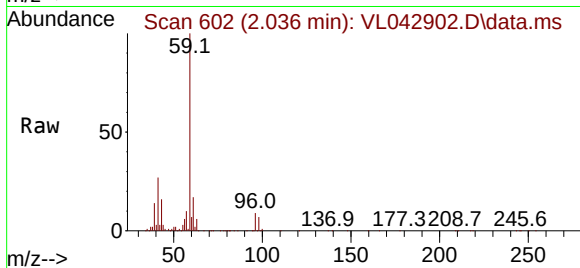
VL0908ABS01

Tgt Ion: 59 Resp: 176056

Ion Ratio Lower Upper

59 100

57 10.9 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.707 ppbv

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

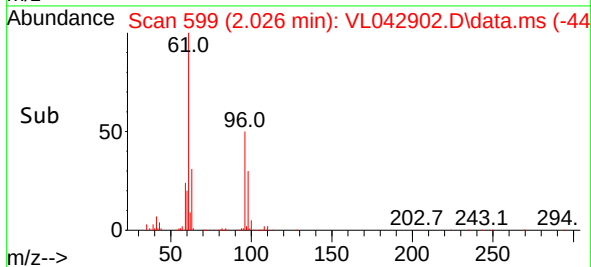
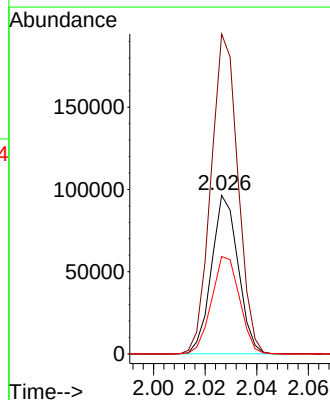
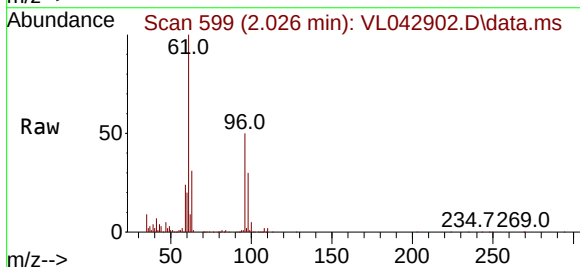
Tgt Ion: 96 Resp: 68830

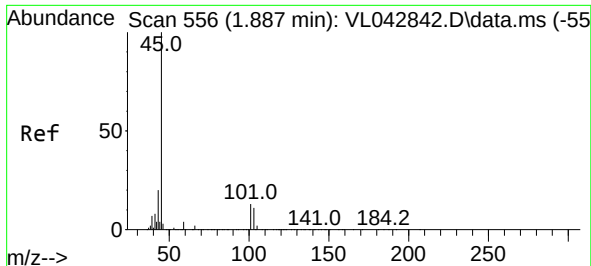
Ion Ratio Lower Upper

96 100

61 201.9 158.2 237.4

98 61.5 50.6 76.0

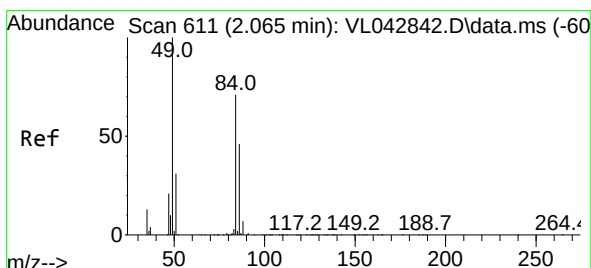
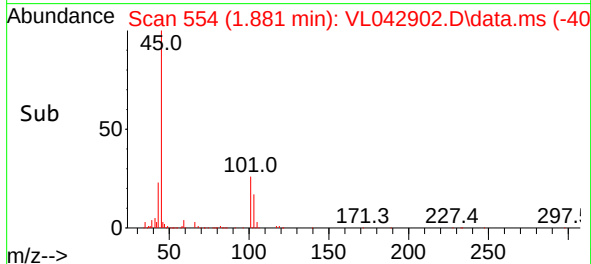
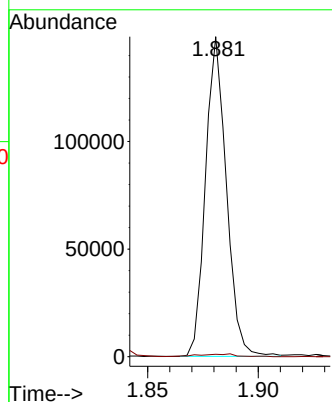
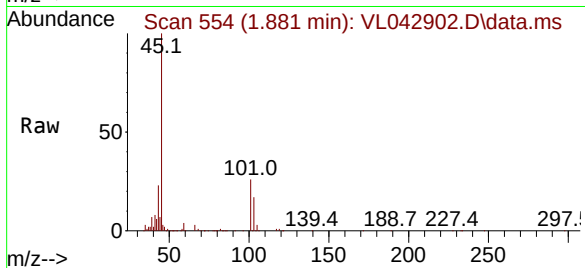




#19
Isopropyl Alcohol
Concen: 8.791 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

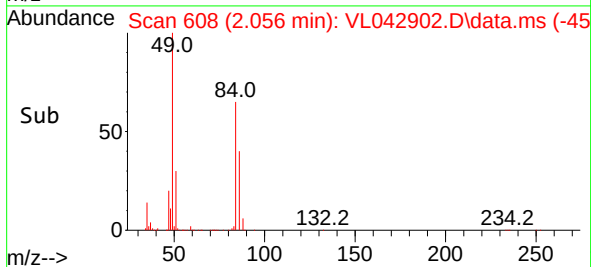
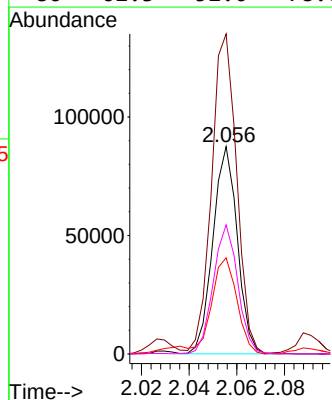
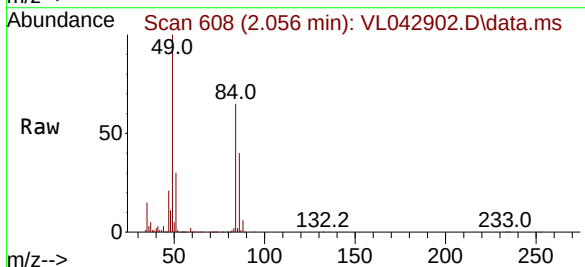
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

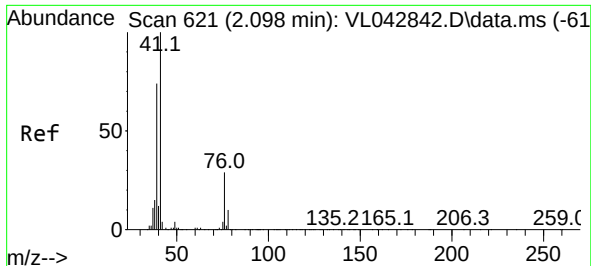
Tgt Ion: 45 Resp: 97198
Ion Ratio Lower Upper
45 100
58 45.5 32.7 49.1



#20
Methylene Chloride
Concen: 8.038 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 62334
Ion Ratio Lower Upper
84 100
49 153.6 112.3 168.5
51 46.1 36.0 54.0
86 62.3 52.0 78.0

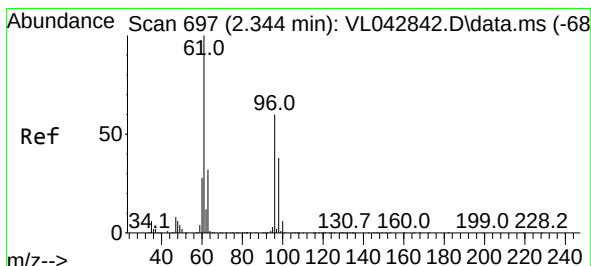
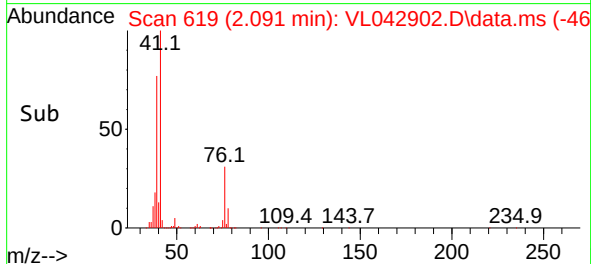
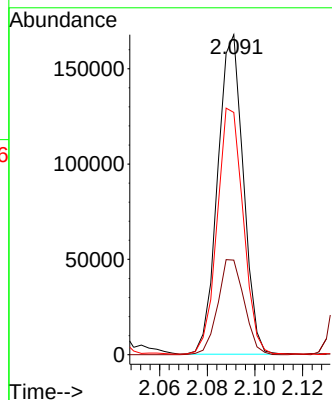
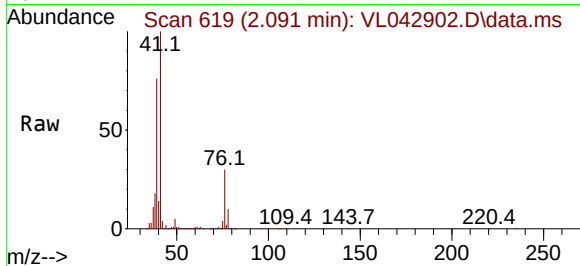




#21
 Allyl Chloride
 Concen: 9.573 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

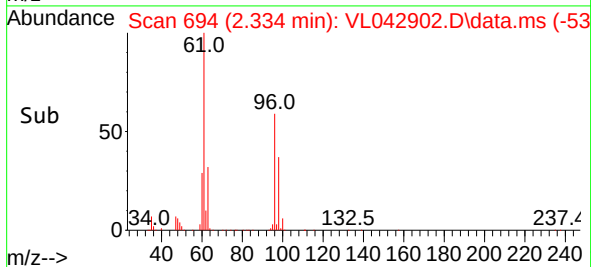
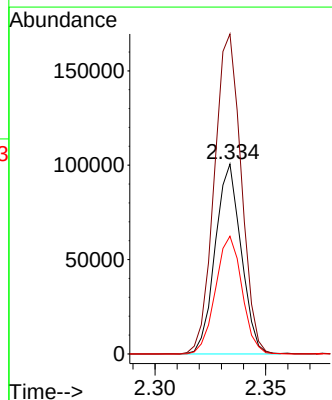
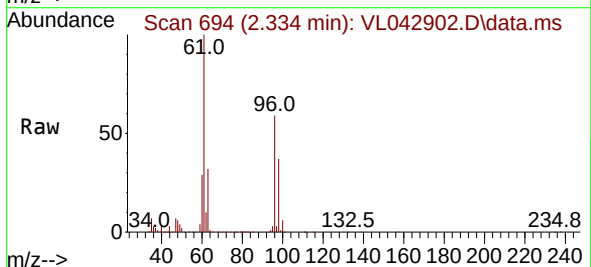
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

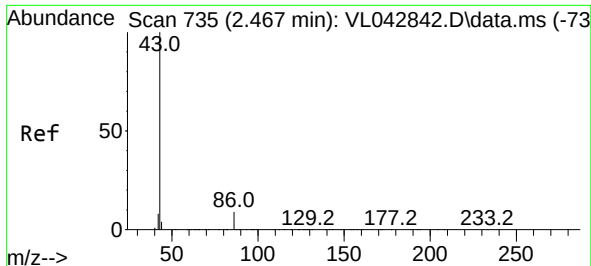
Tgt Ion: 41 Resp: 125191
 Ion Ratio Lower Upper
 41 100
 76 30.6 23.9 35.9
 39 78.4 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 10.005 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 82077
 Ion Ratio Lower Upper
 96 100
 61 168.5 132.6 199.0
 98 62.0 50.0 75.0



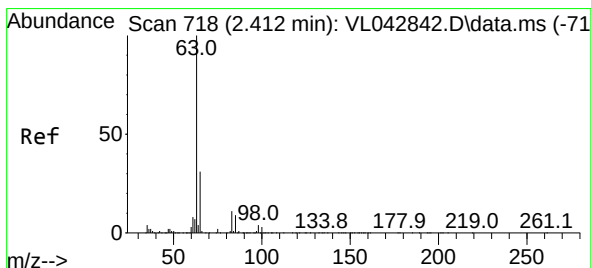
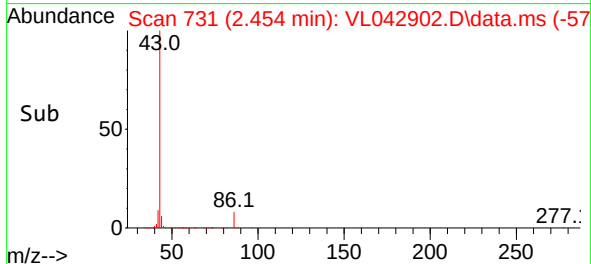
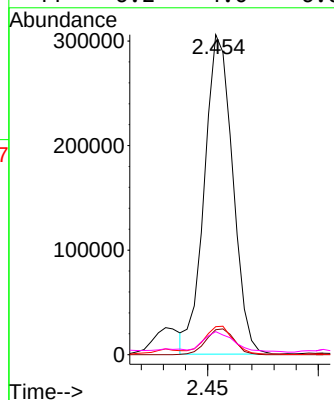
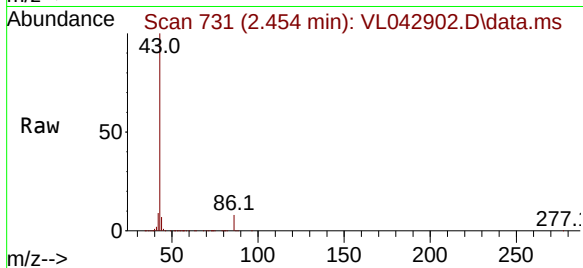


#23
 Vinyl Acetate
 Concen: 10.634 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0908ABS01

Tgt Ion: 43 Resp: 270676

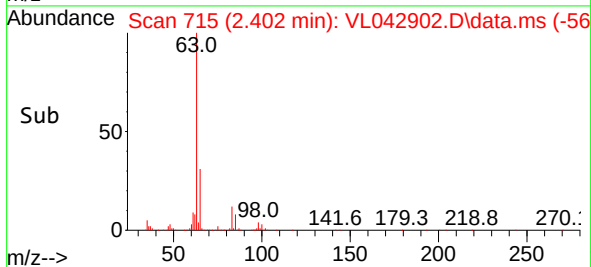
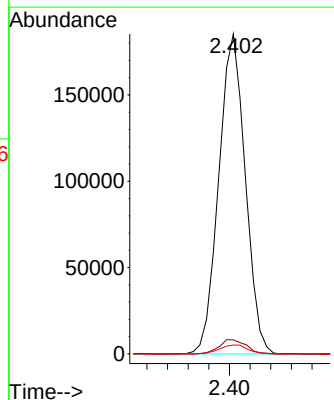
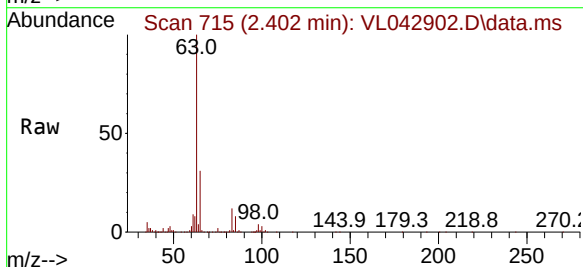
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.6	9.8
42	8.6	7.0	10.6
44	6.2	4.0	6.0

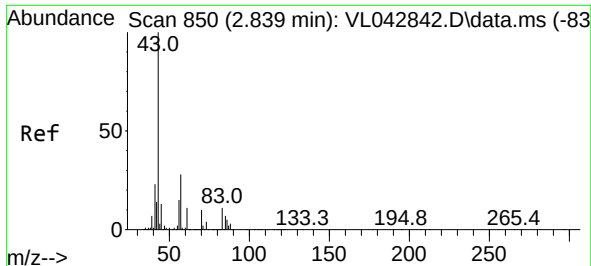


#24
 1,1-Dichloroethane
 Concen: 10.066 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 63 Resp: 164910

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.8	1.7	5.1

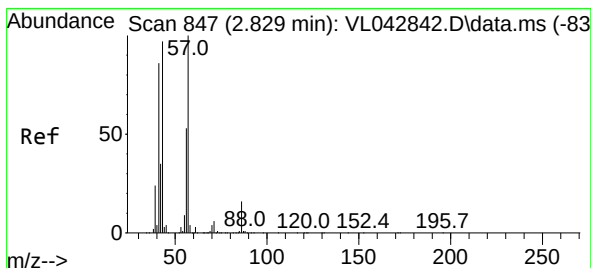
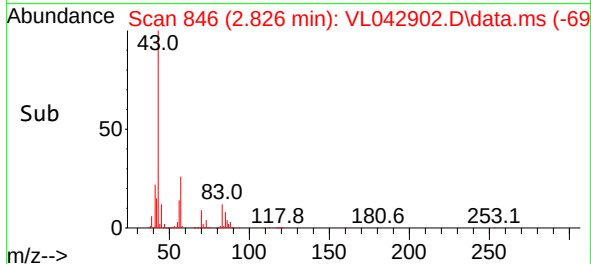
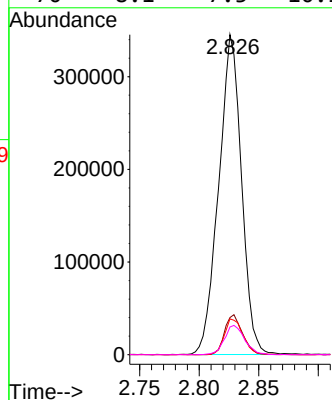
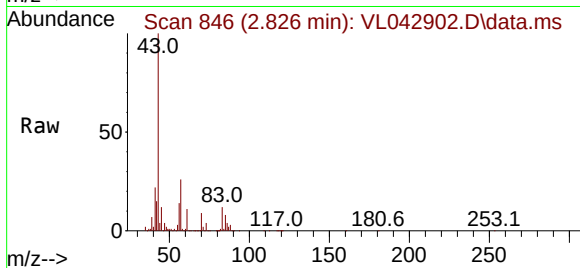




#25
Ethyl Acetate
Concen: 10.237 ppbv
RT: 2.826 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

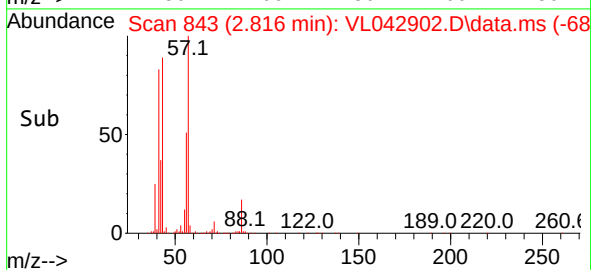
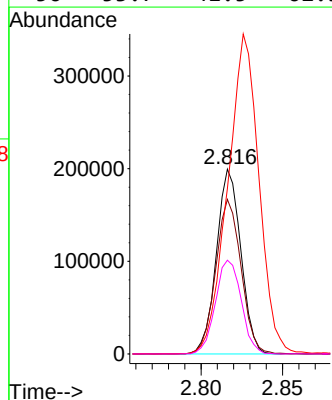
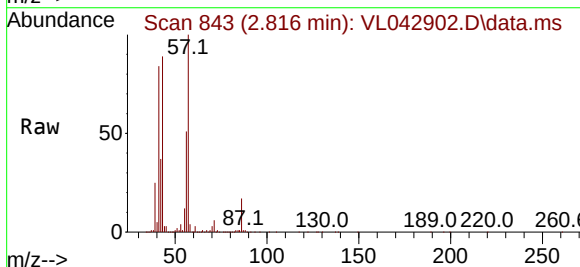
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

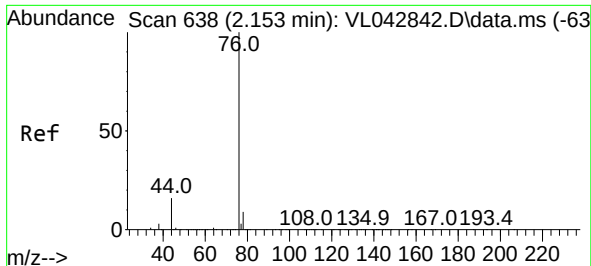
Tgt Ion:	43	Resp:	458640
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.2	7.4	11.2
70	8.1	7.3	10.9



#26
Hexane
Concen: 10.043 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:	57	Resp:	207705
Ion	Ratio	Lower	Upper
57	100		
41	87.5	68.6	103.0
43	221.9	168.5	252.7
56	53.7	41.5	62.3

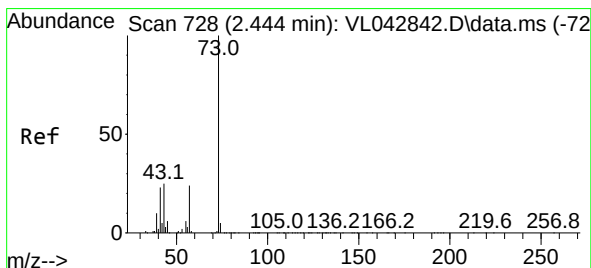
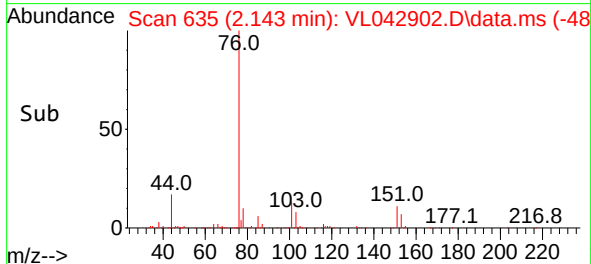
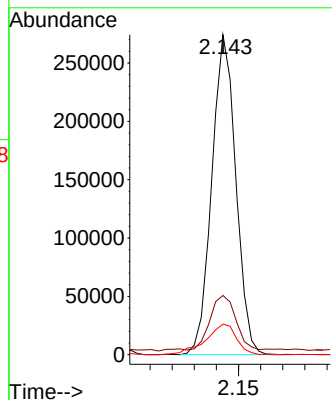
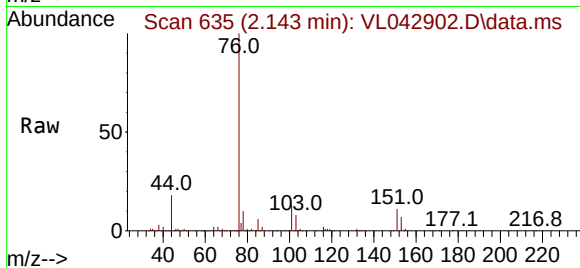




#27
Carbon Disulfide
Concen: 10.273 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

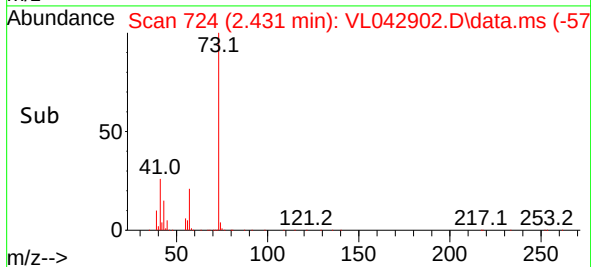
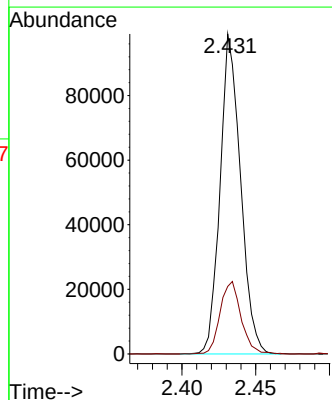
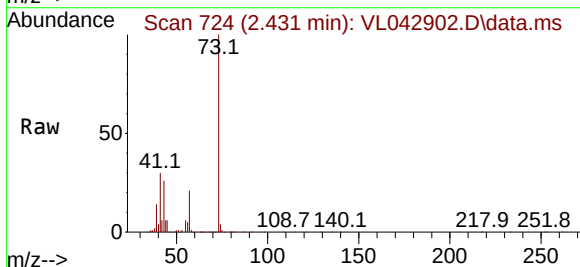
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

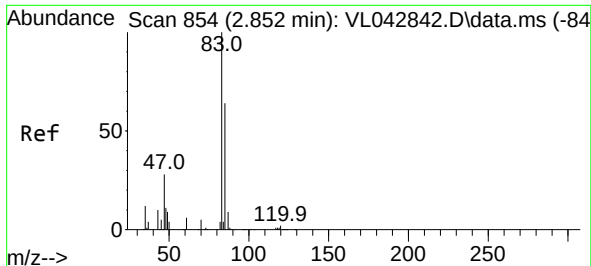
Tgt Ion: 76 Resp: 206751
Ion Ratio Lower Upper
76 100
44 20.9 15.9 23.9
78 12.3 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 9.082 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 73 Resp: 95768
Ion Ratio Lower Upper
73 100
57 23.2 21.6 32.4

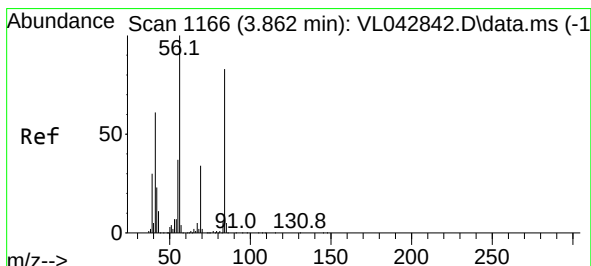
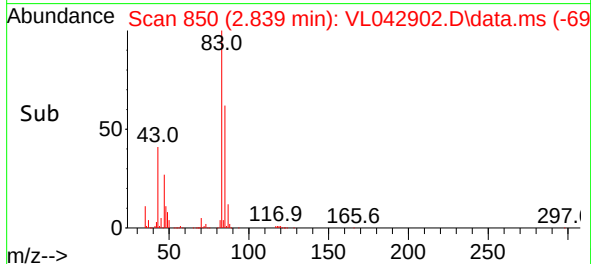
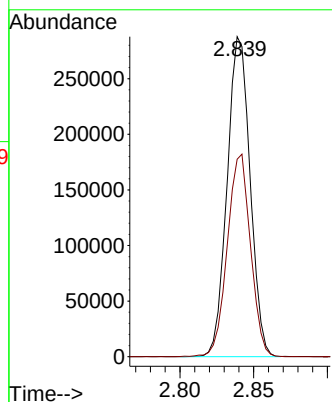
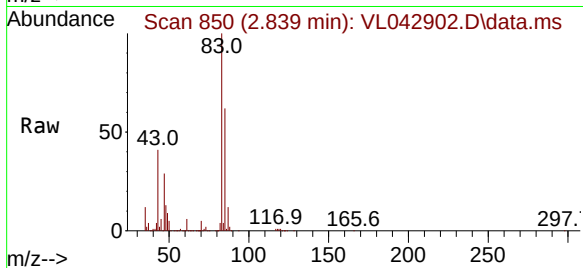




#29
Chloroform
Concen: 10.562 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

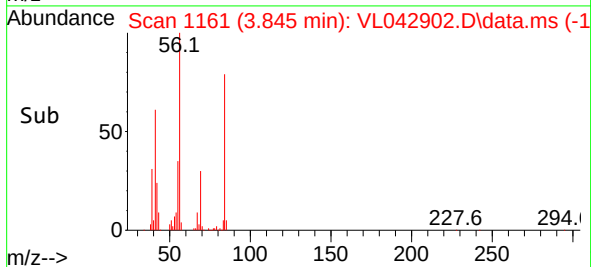
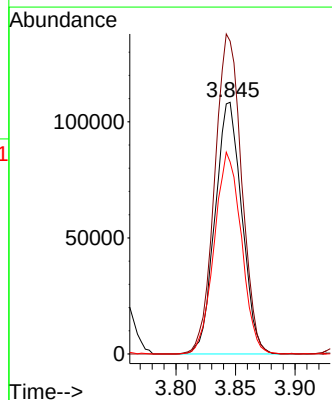
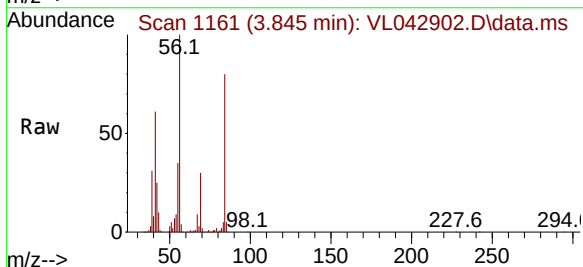
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

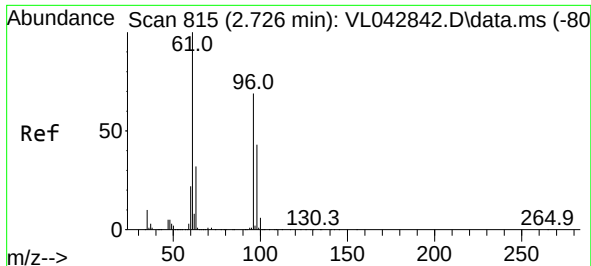
Tgt Ion: 83 Resp: 311859
Ion Ratio Lower Upper
83 100
85 61.7 51.1 76.7



#30
Cyclohexane
Concen: 9.340 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 169353
Ion Ratio Lower Upper
84 100
56 127.6 98.8 148.2
41 81.1 61.3 91.9

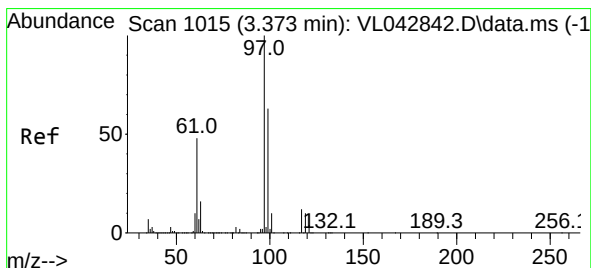
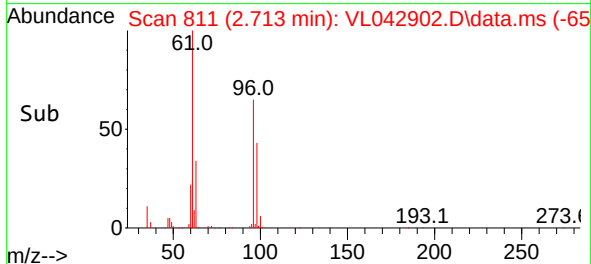
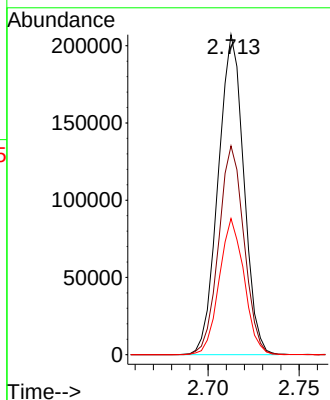
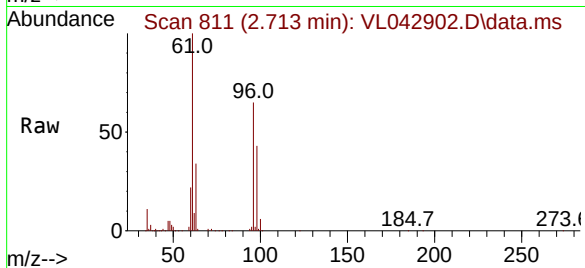




#31
 cis-1,2-Dichloroethene
 Concen: 9.796 ppbv
 RT: 2.713 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

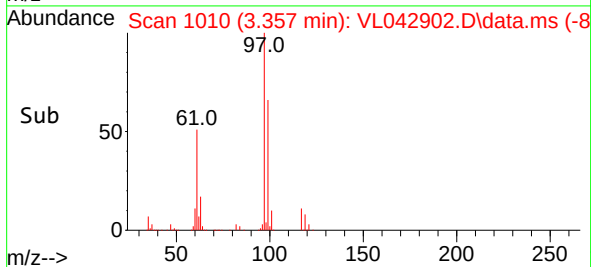
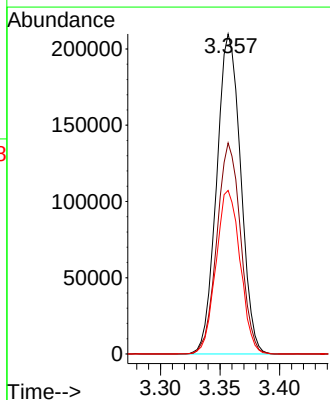
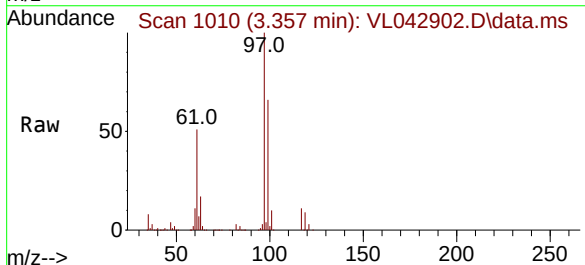
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

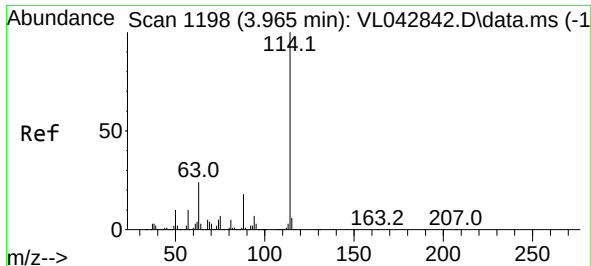
Tgt Ion: 61 Resp: 202349
 Ion Ratio Lower Upper
 61 100
 96 65.2 55.0 82.6
 98 42.5 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 9.409 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 97 Resp: 293618
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.6
 61 51.7 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

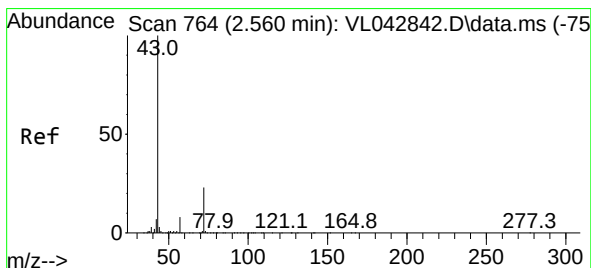
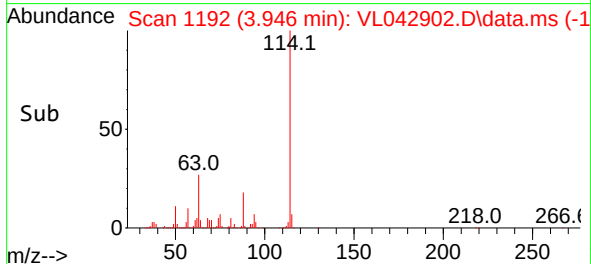
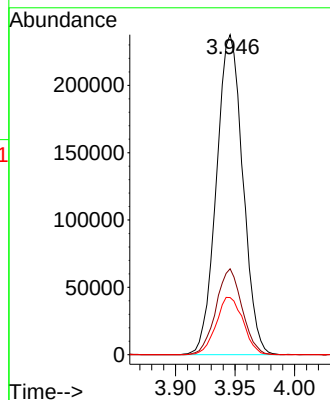
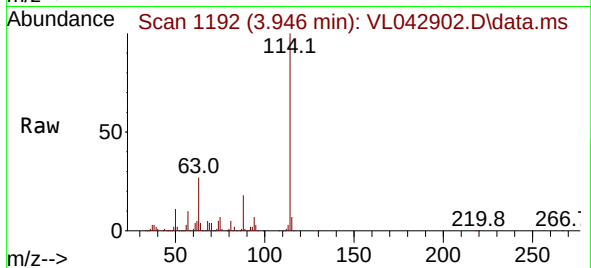
Tgt Ion:114 Resp: 365857

Ion Ratio Lower Upper

114 100

63 26.5 19.7 29.5

88 18.3 14.4 21.6



#34

2-Butanone

Concen: 12.066 ppbv

RT: 2.551 min Scan# 761

Delta R.T. 0.003 min

Lab File: VL042902.D

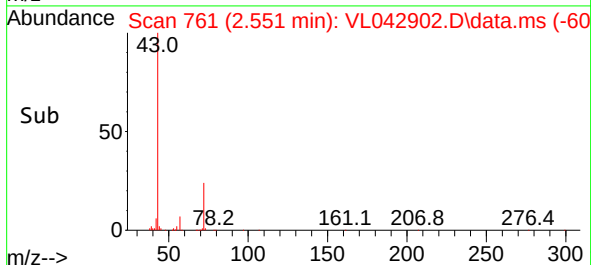
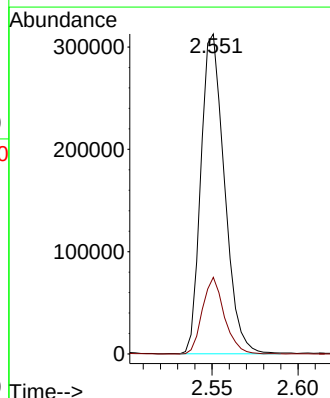
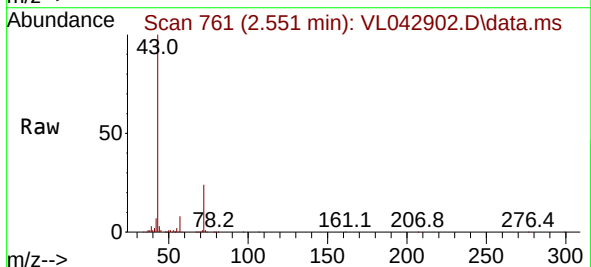
Acq: 08 Sep 2025 13:35

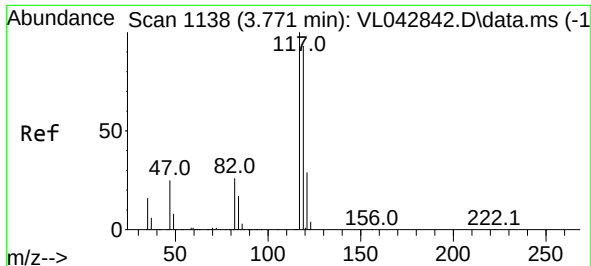
Tgt Ion: 43 Resp: 298071

Ion Ratio Lower Upper

43 100

72 22.3 18.6 28.0

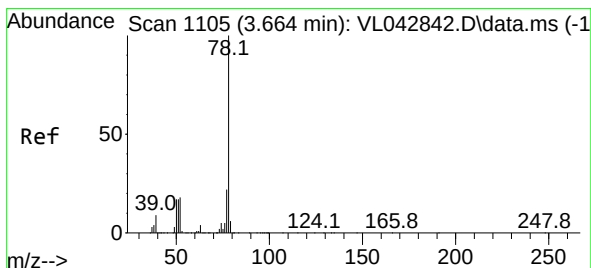
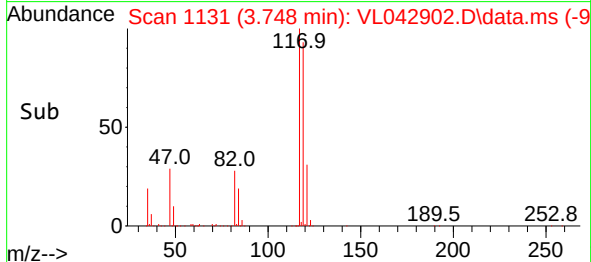
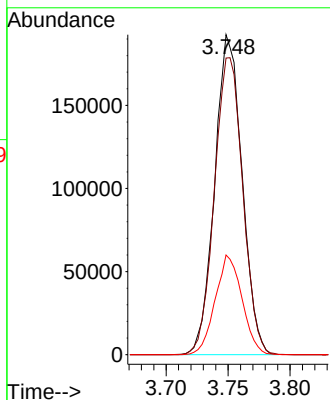
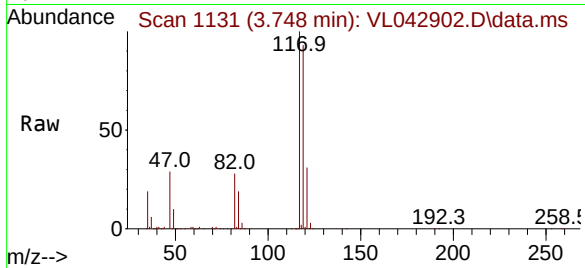




#35
Carbon Tetrachloride
Concen: 11.779 ppbv
RT: 3.748 min Scan# 1138
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

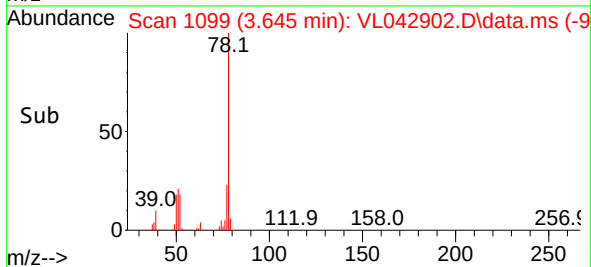
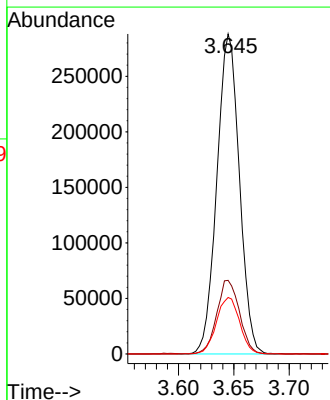
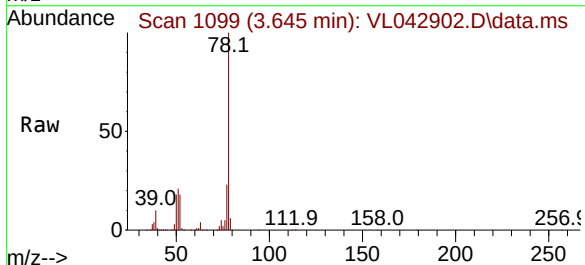
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

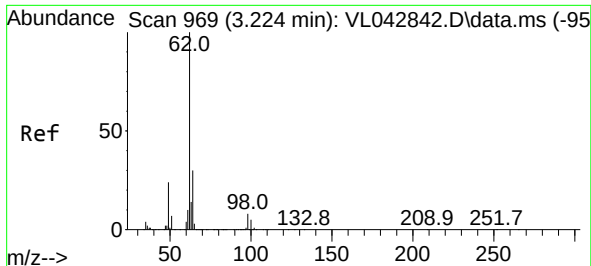
Tgt Ion:117 Resp: 297085
Ion Ratio Lower Upper
117 100
119 92.6 74.7 112.1
121 31.2 23.2 34.8



#36
Benzene
Concen: 11.625 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 78 Resp: 407263
Ion Ratio Lower Upper
78 100
77 23.0 17.7 26.5
50 17.7 13.9 20.9





#37

1,2-Dichloroethane

Concen: 12.720 ppbv

RT: 3.208 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

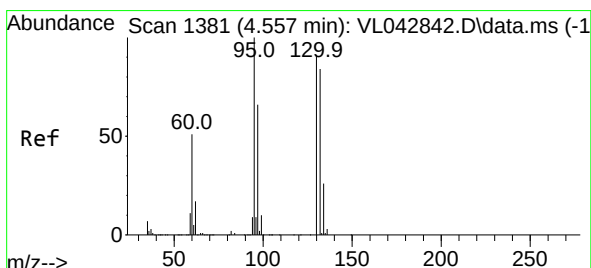
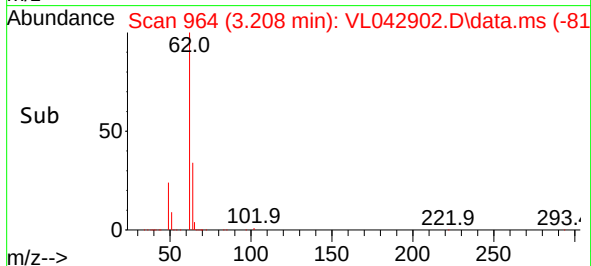
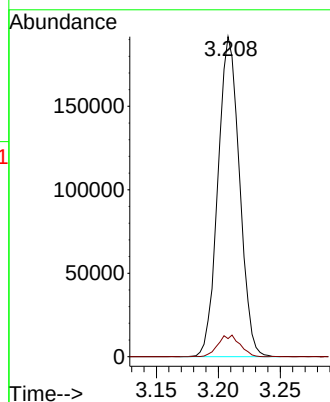
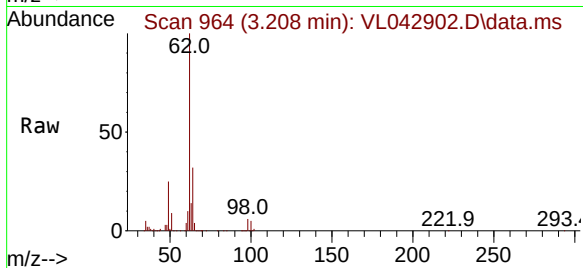
VL0908ABS01

Tgt Ion: 62 Resp: 232809

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 10.408 ppbv

RT: 4.532 min Scan# 1373

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:130 Resp: 166529

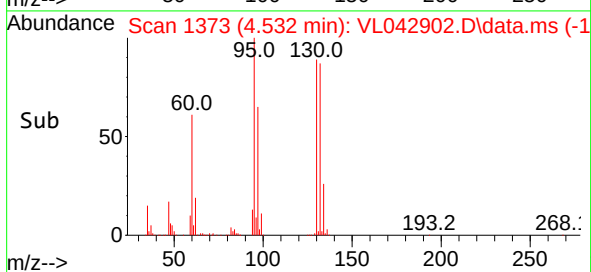
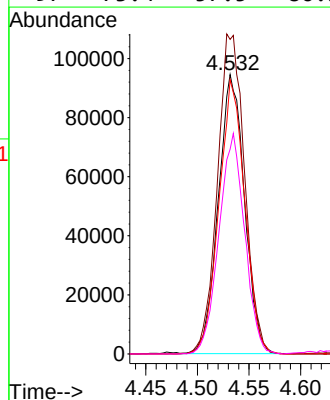
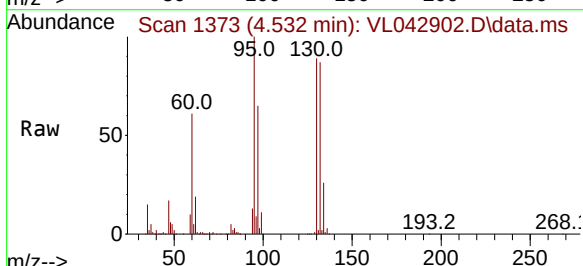
Ion Ratio Lower Upper

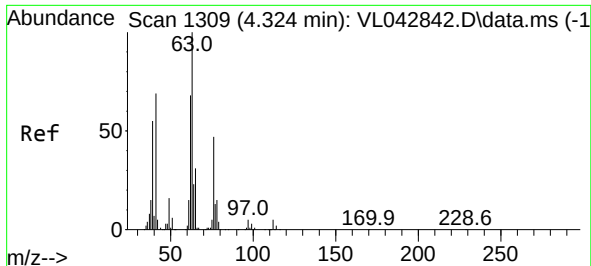
130 100

95 112.8 87.6 131.4

132 98.3 73.8 110.8

97 73.4 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.961 ppbv

RT: 4.302 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

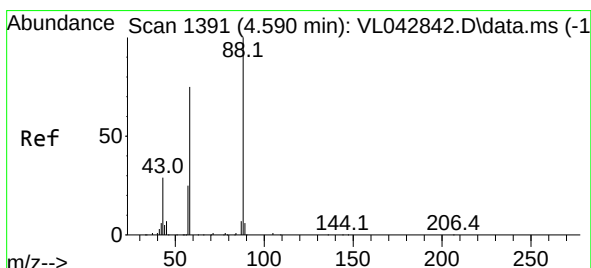
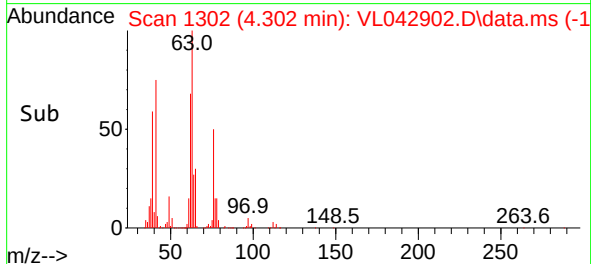
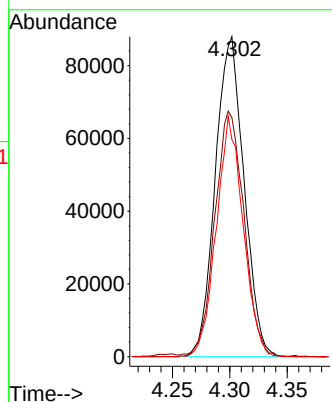
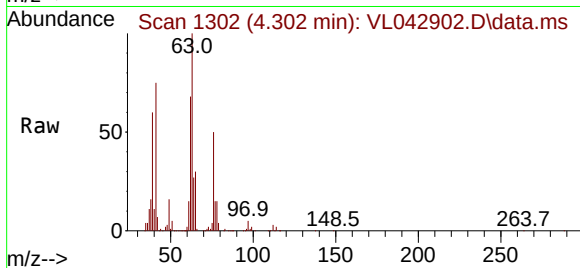
Tgt Ion: 63 Resp: 153042

Ion Ratio Lower Upper

63 100

41 74.6 55.0 82.4

62 67.7 54.4 81.6



#40

1,4-Dioxane

Concen: 10.138 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion: 88 Resp: 61682

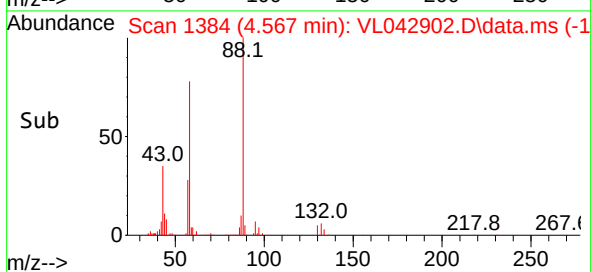
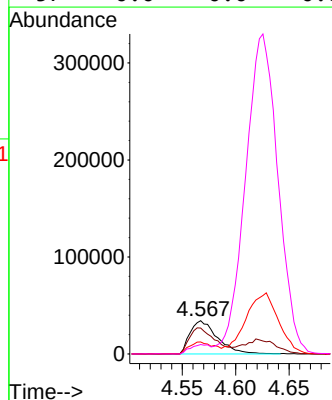
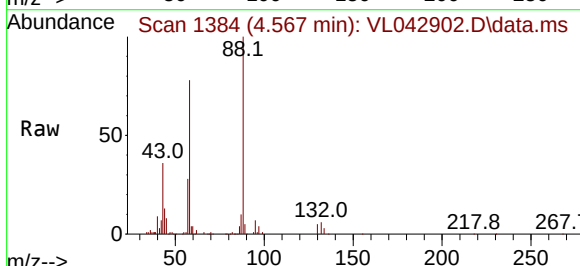
Ion Ratio Lower Upper

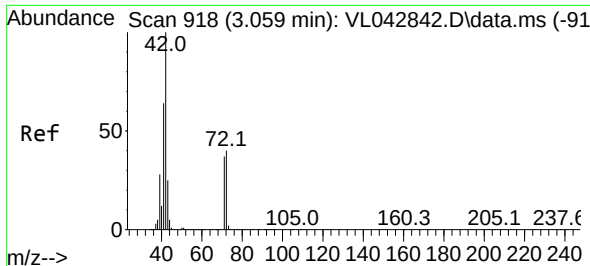
88 100

58 75.9 53.8 80.6

43 36.0 22.8 34.2#

57 0.0 0.0 0.0

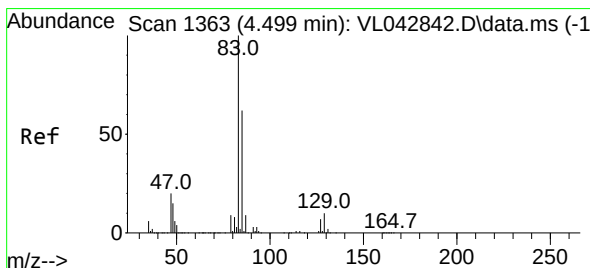
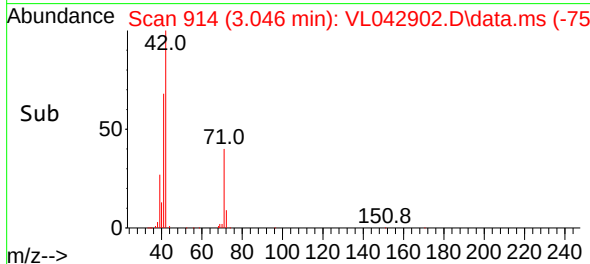
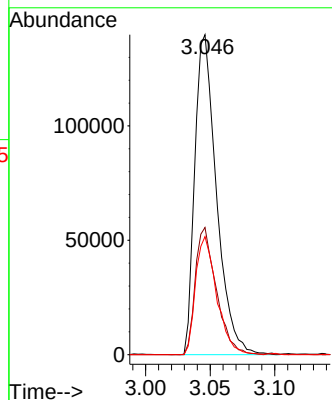
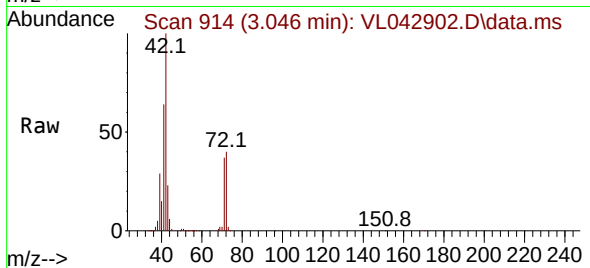




#41
Tetrahydrofuran
Concen: 11.927 ppbv
RT: 3.046 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

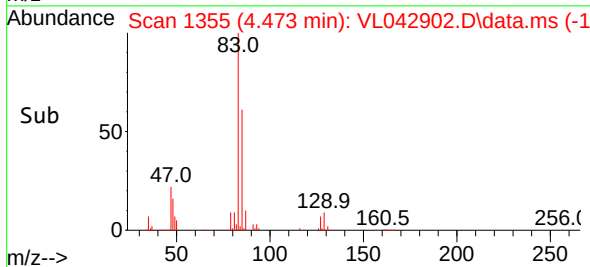
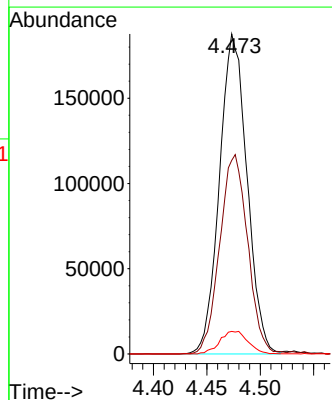
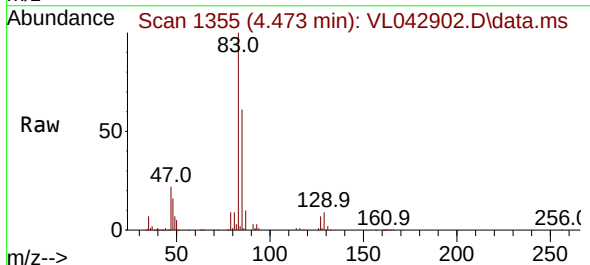
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

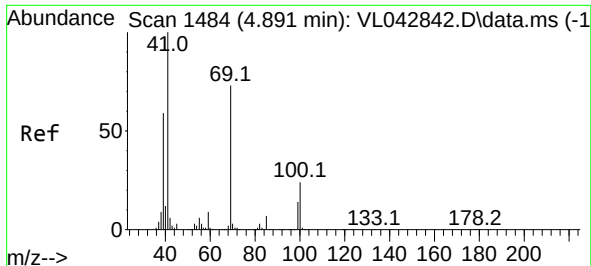
Tgt Ion: 42 Resp: 164268
Ion Ratio Lower Upper
42 100
72 38.6 32.6 48.8
71 36.0 30.0 45.0



#42
Bromodichloromethane
Concen: 12.351 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 83 Resp: 336858
Ion Ratio Lower Upper
83 100
85 60.5 49.8 74.8
127 7.0 5.8 8.6

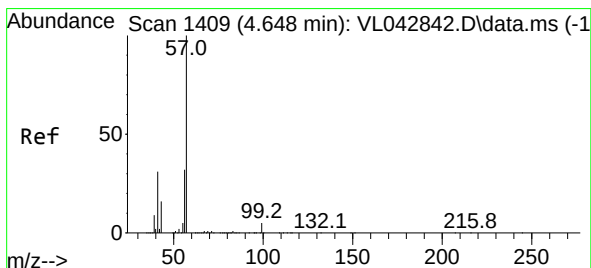
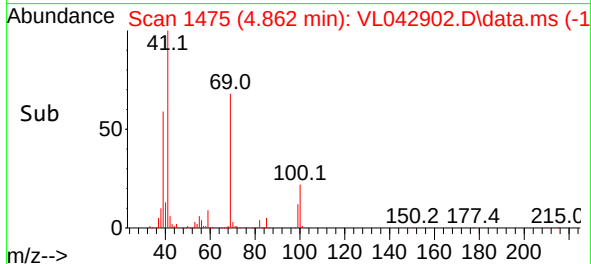
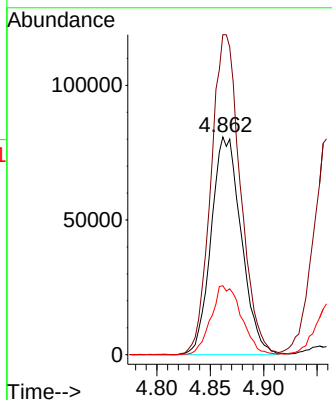
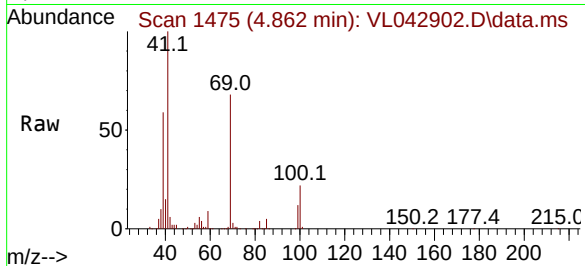




#43
Methyl Methacrylate
Concen: 10.979 ppbv
RT: 4.862 min Scan# 1484
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

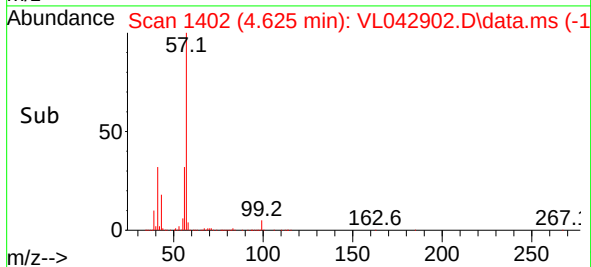
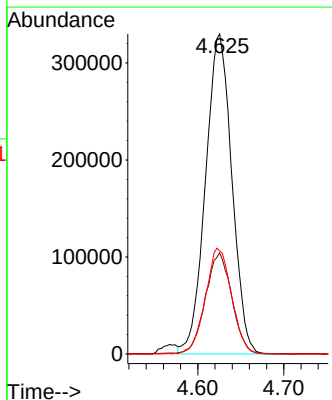
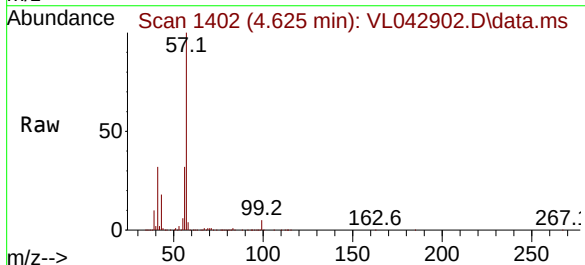
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

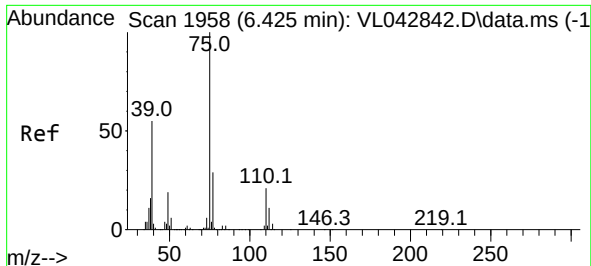
Tgt Ion: 69 Resp: 158457
Ion Ratio Lower Upper
69 100
41 143.9 114.6 172.0
100 32.1 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 11.797 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 57 Resp: 701486
Ion Ratio Lower Upper
57 100
41 31.8 24.8 37.2
56 32.7 25.5 38.3

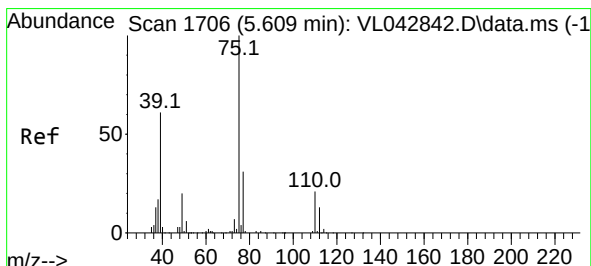
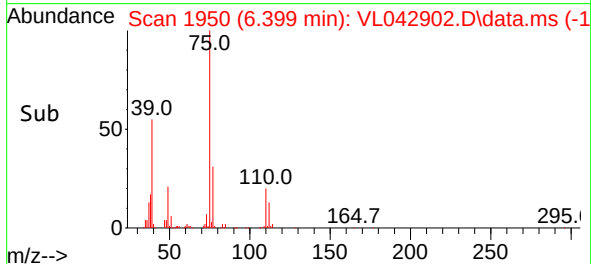
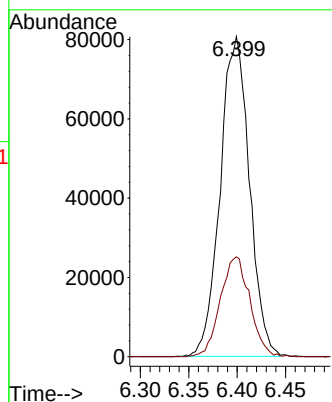
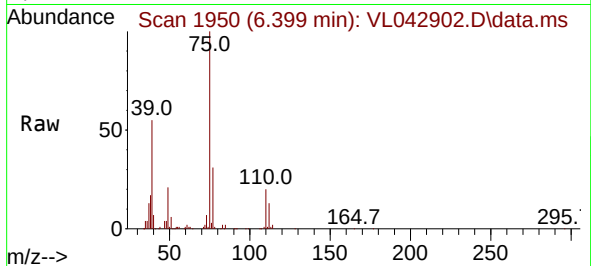




#45
 t-1,3-Dichloropropene
 Concen: 10.403 ppbv
 RT: 6.399 min Scan# 1698
 Delta R.T. 0.006 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

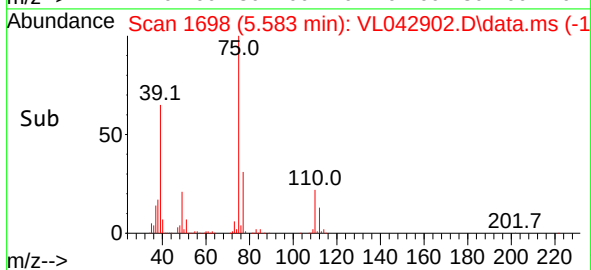
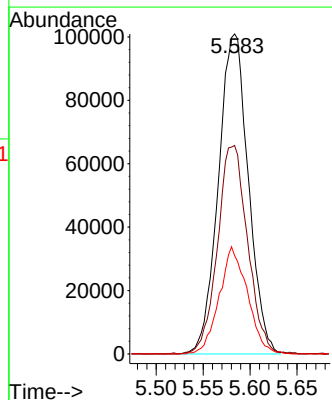
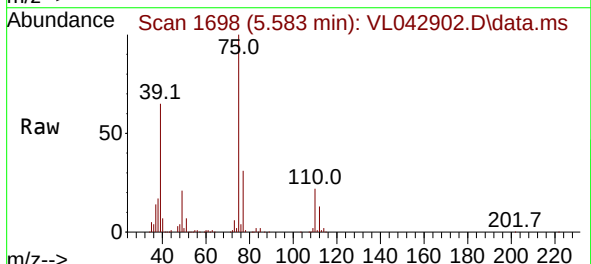
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

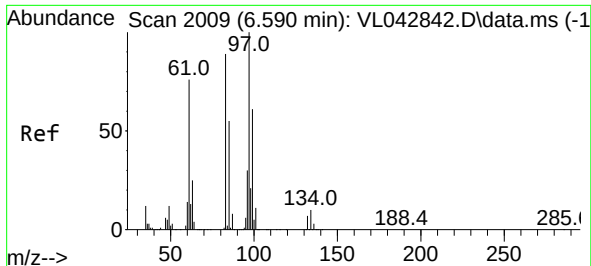
Tgt Ion: 75 Resp: 169435
 Ion Ratio Lower Upper
 75 100
 77 31.2 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 11.031 ppbv
 RT: 5.583 min Scan# 1698
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 75 Resp: 223871
 Ion Ratio Lower Upper
 75 100
 39 65.0 48.9 73.3
 77 30.8 24.9 37.3

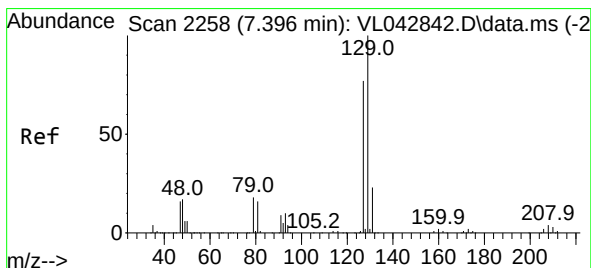
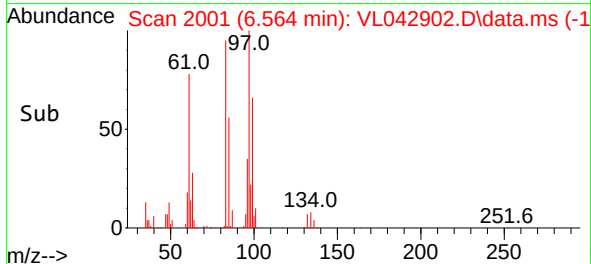
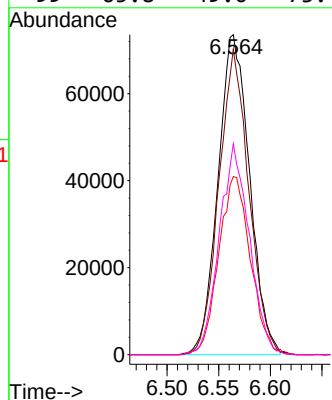
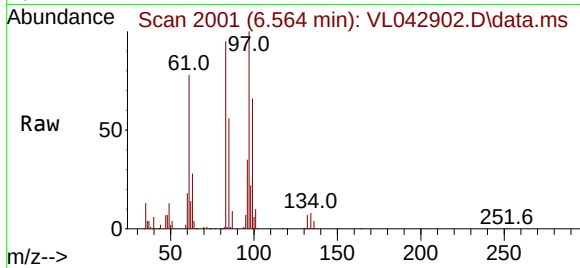




#47
 1,1,2-Trichloroethane
 Concen: 11.541 ppbv
 RT: 6.564 min Scan# 2009
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

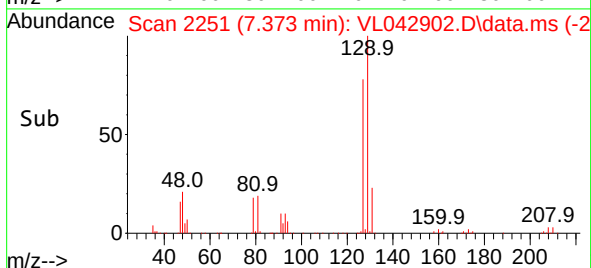
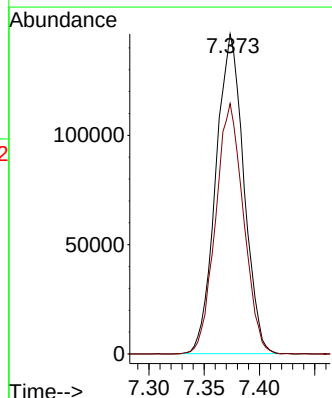
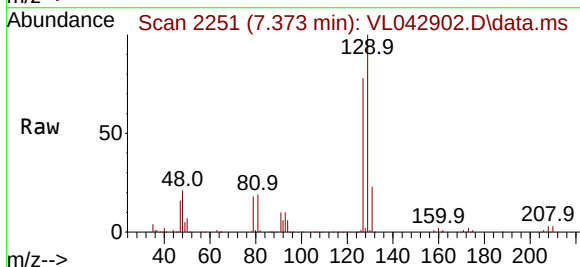
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0908ABS01

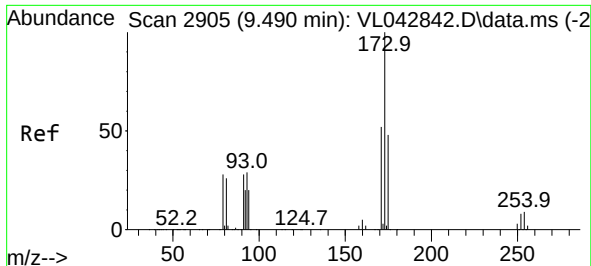
Tgt Ion: 97	Resp: 156460
Ion Ratio	Lower Upper
97 100	
83 95.5	71.0 106.4
85 55.6	43.6 65.4
99 65.8	49.0 73.4



#48
 Dibromochloromethane
 Concen: 11.712 ppbv
 RT: 7.373 min Scan# 2251
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion:129	Resp: 256923
Ion Ratio	Lower Upper
129 100	
127 78.3	39.4 118.2

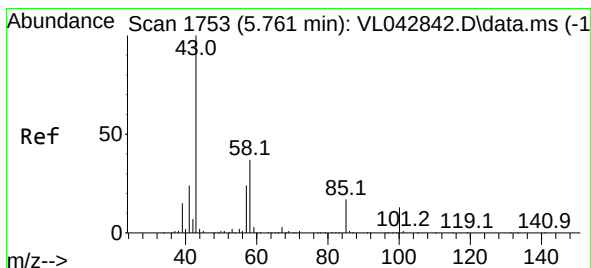
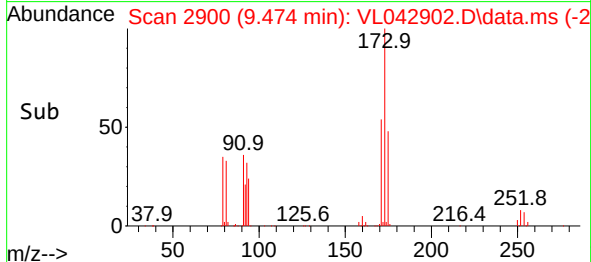
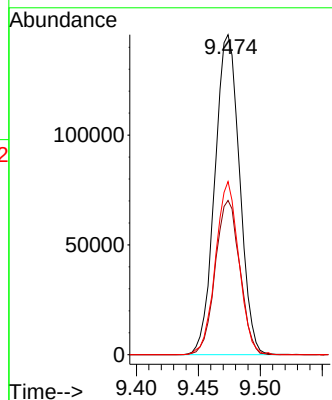
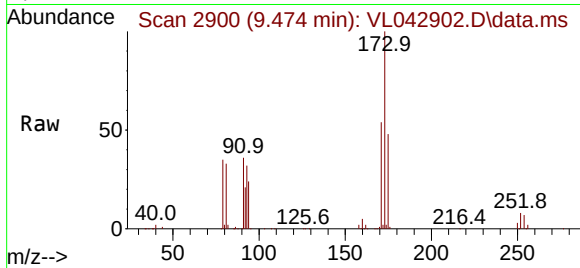




#49
Bromoform
Concen: 11.222 ppbv
RT: 9.474 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

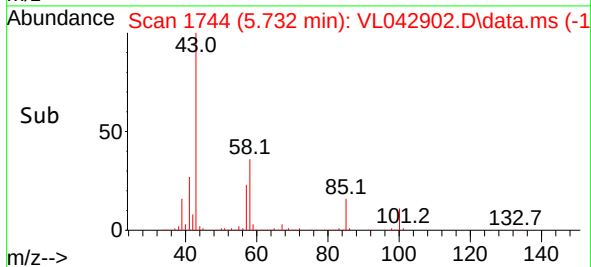
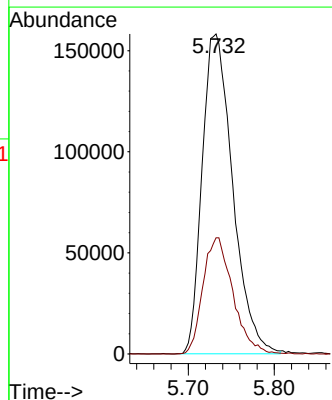
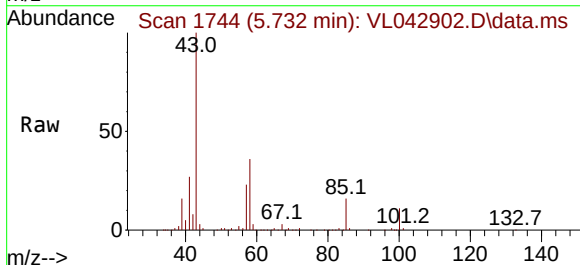
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

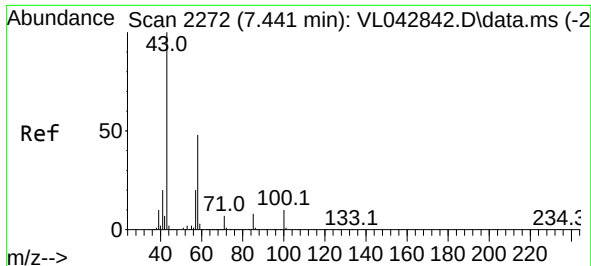
Tgt Ion:173 Resp: 203018
Ion Ratio Lower Upper
173 100
175 47.9 39.2 58.8
171 51.1 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 11.688 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 390291
Ion Ratio Lower Upper
43 100
58 35.7 29.8 44.8

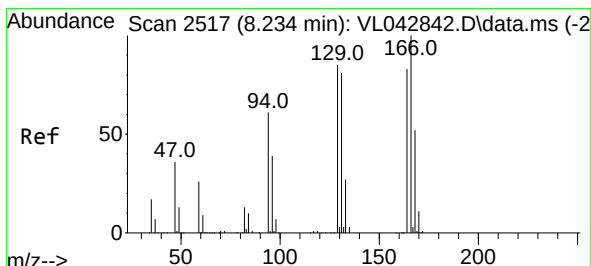
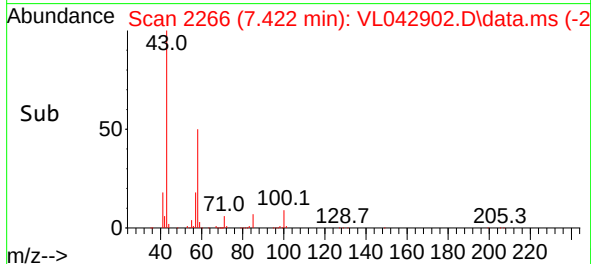
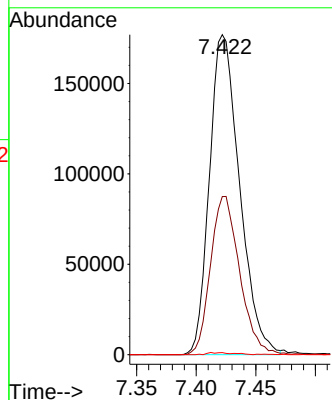
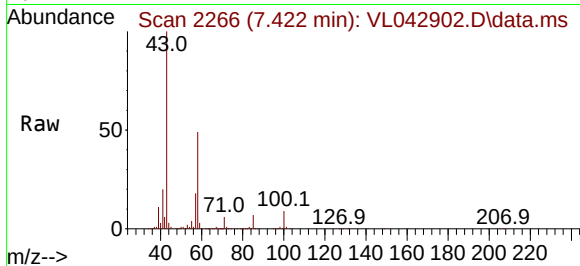




#51
2-Hexanone
Concen: 11.858 ppbv
RT: 7.422 min Scan# 211589
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

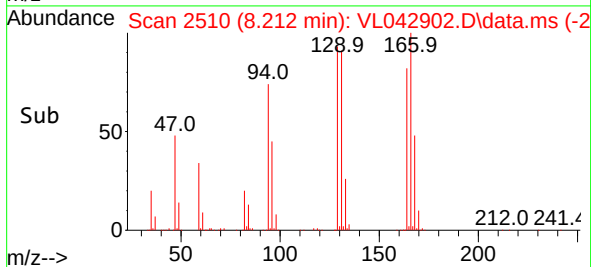
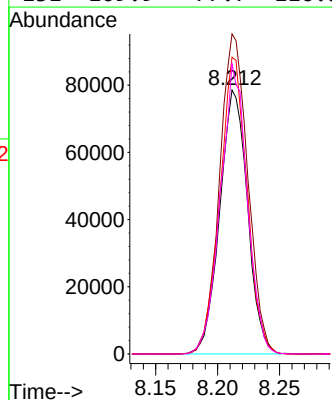
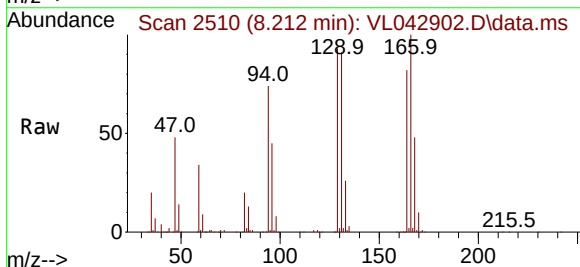
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

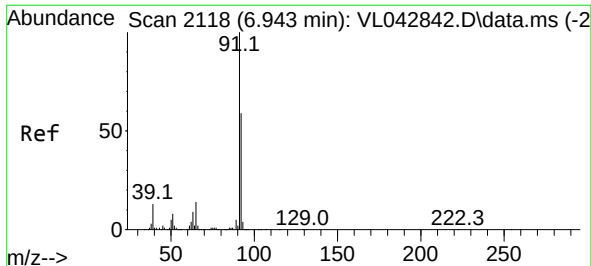
Tgt Ion: 43 Resp: 311589
Ion Ratio Lower Upper
43 100
58 47.8 41.0 61.6
98 0.6 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.644 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:164 Resp: 122229
Ion Ratio Lower Upper
164 100
166 121.3 96.5 144.7
129 112.5 81.8 122.6
131 109.9 77.7 116.5

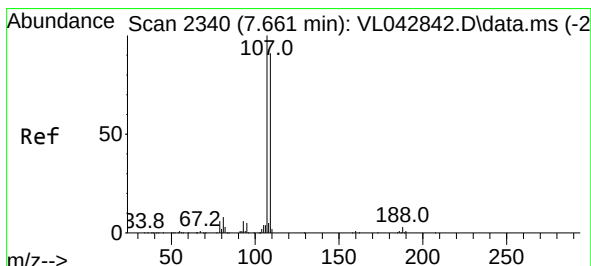
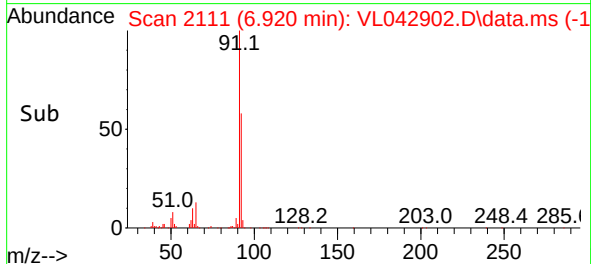
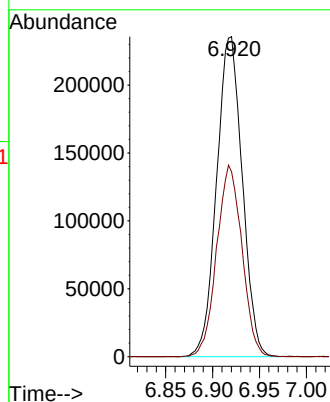
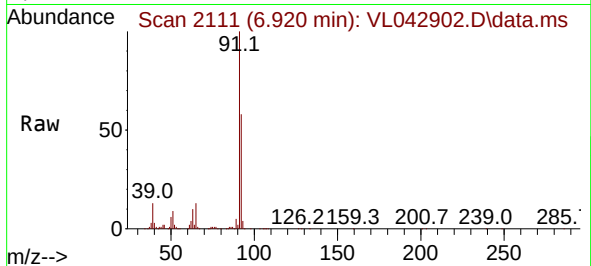




#53
Toluene
Concen: 10.752 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

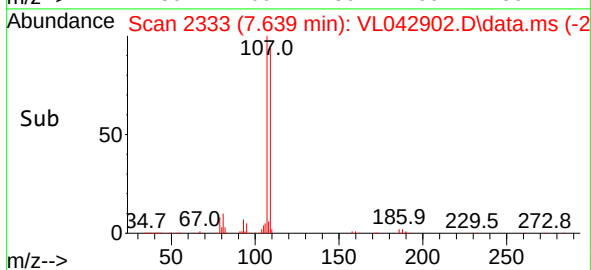
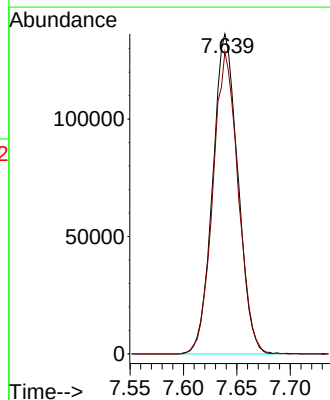
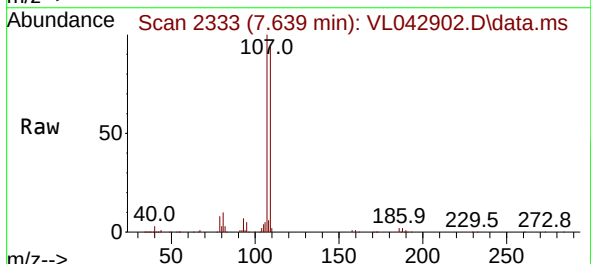
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

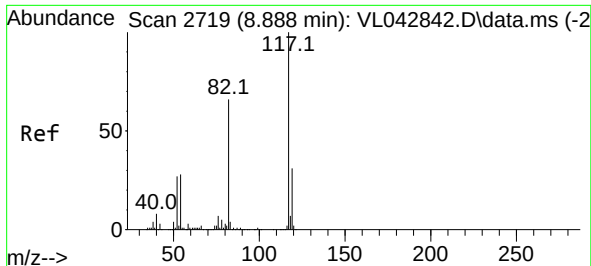
Tgt Ion: 91 Resp: 447844
Ion Ratio Lower Upper
91 100
92 58.9 47.8 71.6



#54
1,2-Dibromoethane
Concen: 11.277 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 107 Resp: 223417
Ion Ratio Lower Upper
107 100
109 94.3 72.5 108.7

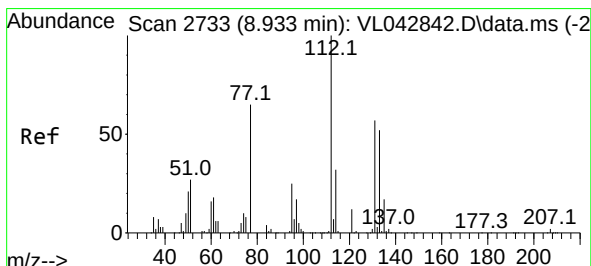
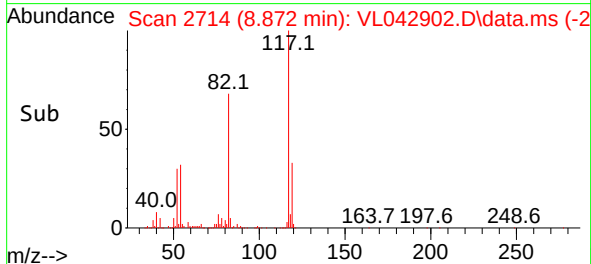
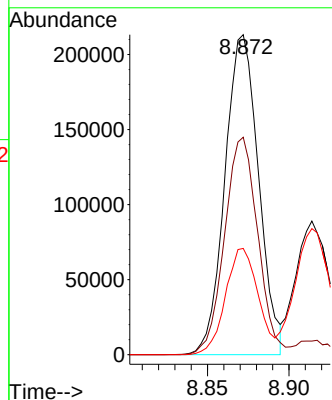
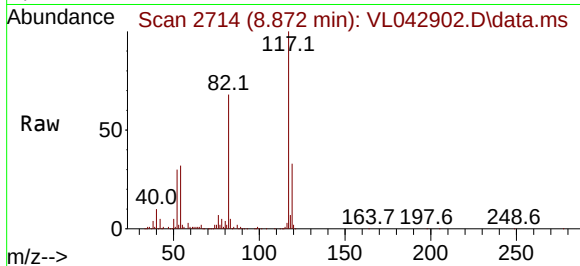




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

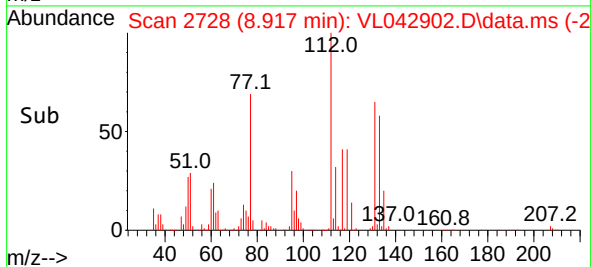
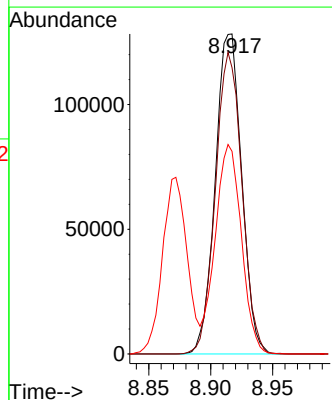
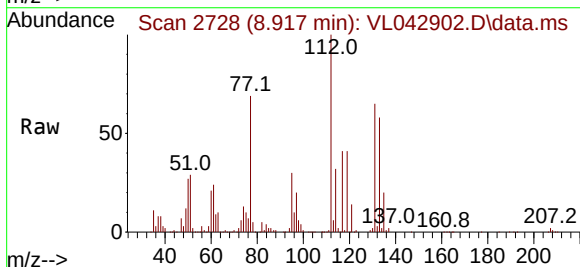
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

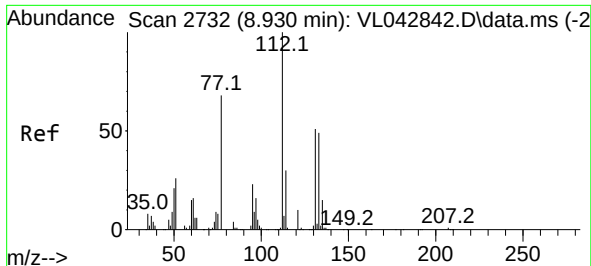
Tgt Ion:117 Resp: 306385
Ion Ratio Lower Upper
117 100
82 71.5 54.6 81.8
119 32.3 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 12.050 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:131 Resp: 190922
Ion Ratio Lower Upper
131 100
133 94.5 77.4 116.0
119 64.9 51.2 76.8

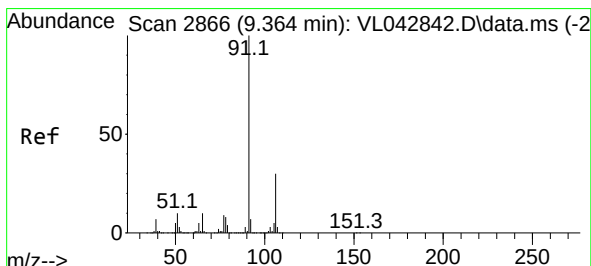
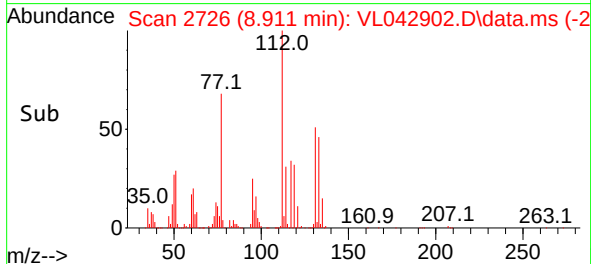
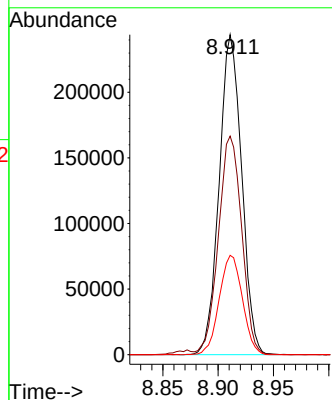
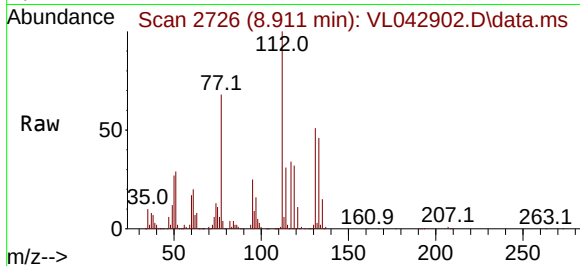




#57
Chlorobenzene
Concen: 11.855 ppbv
RT: 8.911 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

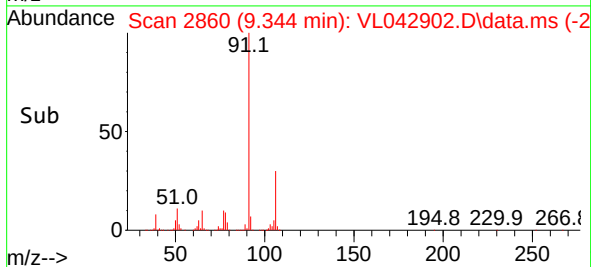
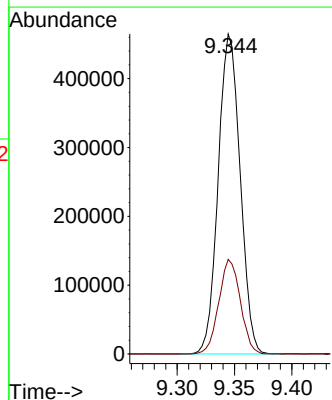
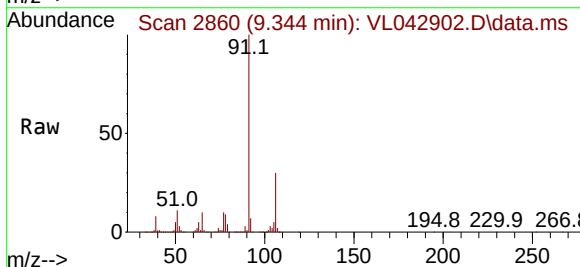
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

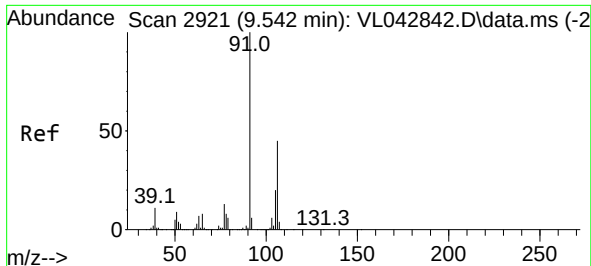
Tgt Ion:112 Resp: 345342
Ion Ratio Lower Upper
112 100
77 68.3 55.5 83.3
114 31.0 27.2 33.2



#58
Ethyl Benzene
Concen: 11.442 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 618650
Ion Ratio Lower Upper
91 100
106 29.6 23.9 35.9





#59

m/p-Xylene

Concen: 11.407 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

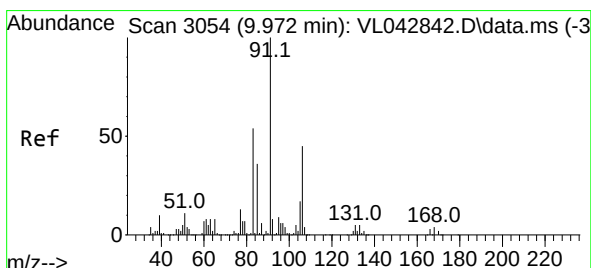
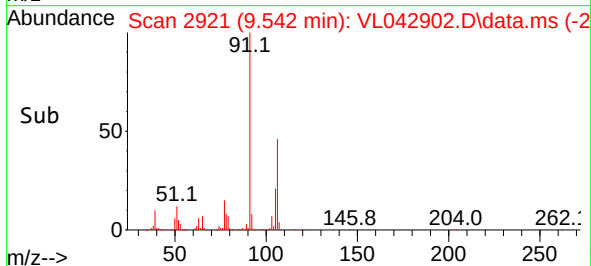
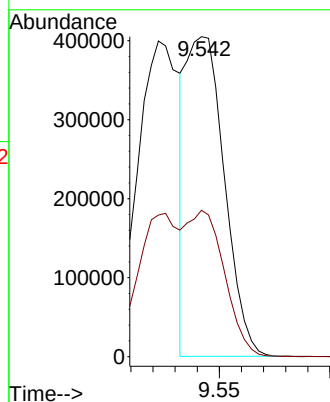
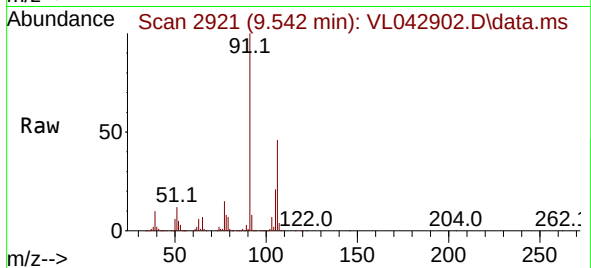
VL0908ABS01

Tgt Ion: 91 Resp: 483410

Ion Ratio Lower Upper

91 100

106 95.0 0.0 0.0#



#60

o-Xylene

Concen: 11.844 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042902.D

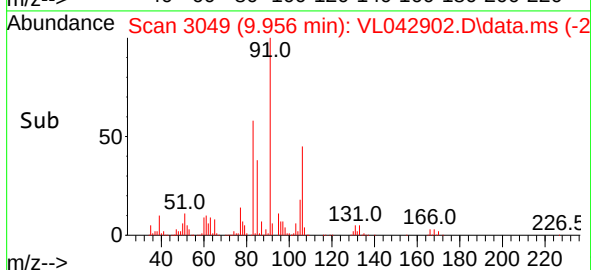
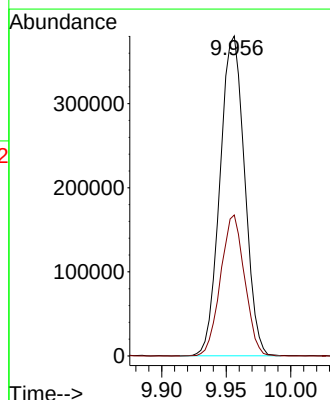
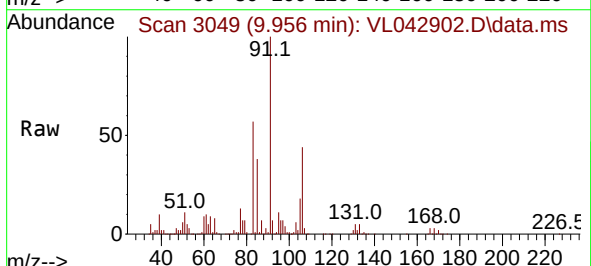
Acq: 08 Sep 2025 13:35

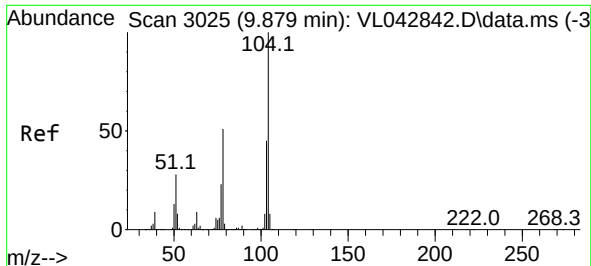
Tgt Ion: 91 Resp: 504922

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

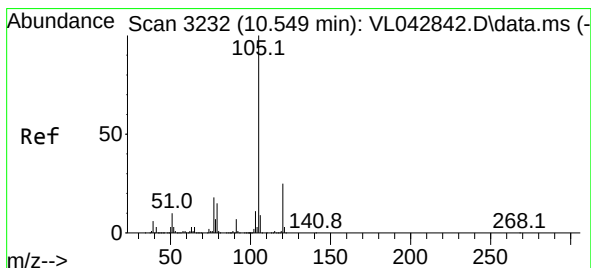
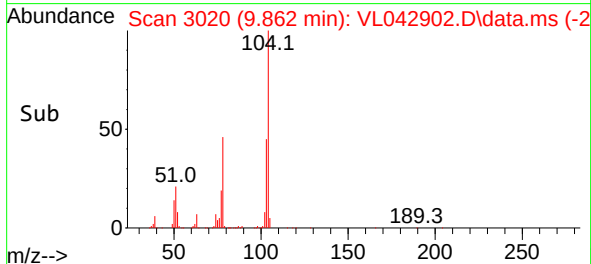
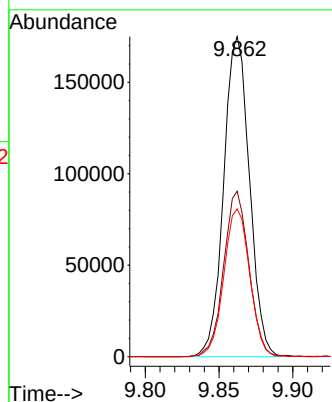
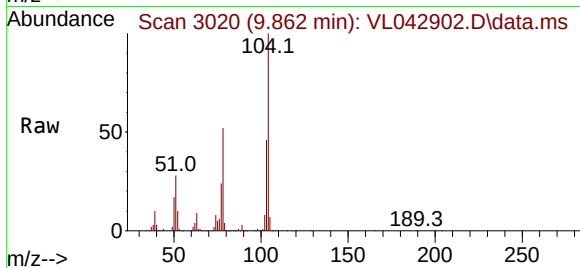




#61
Styrene
Concen: 10.644 ppbv
RT: 9.862 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

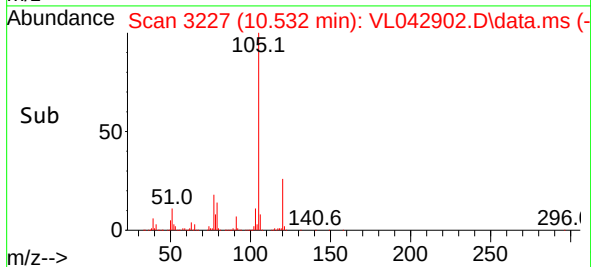
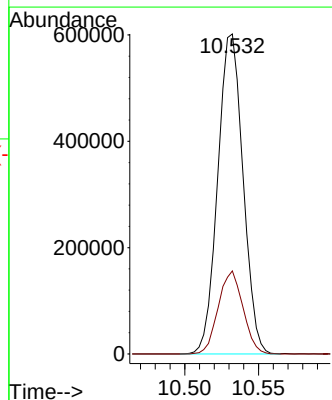
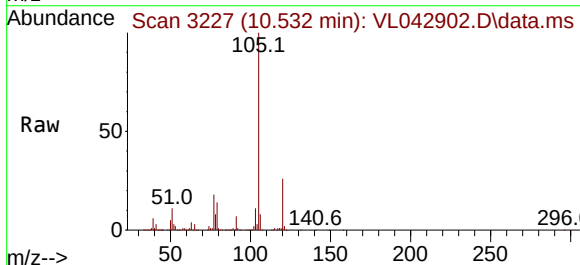
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

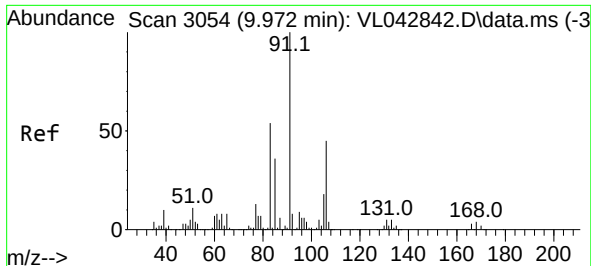
Tgt Ion:104 Resp: 212594
Ion Ratio Lower Upper
104 100
78 50.7 40.6 61.0
103 46.6 37.7 56.5



#62
Isopropylbenzene
Concen: 11.521 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 717761
Ion Ratio Lower Upper
105 100
120 25.3 20.6 30.8

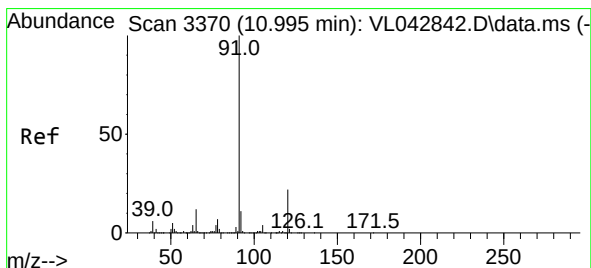
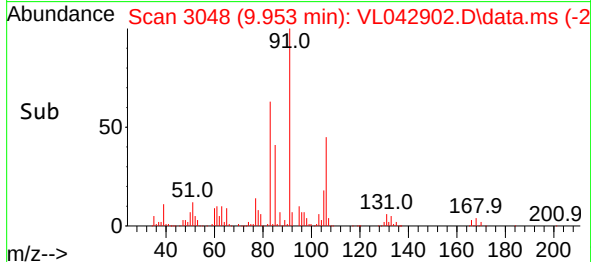
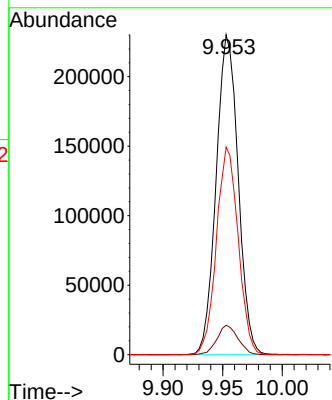
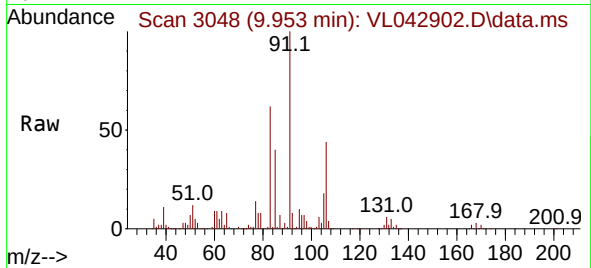




#63
1,1,2,2-Tetrachloroethane
Concen: 12.588 ppbv
RT: 9.953 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

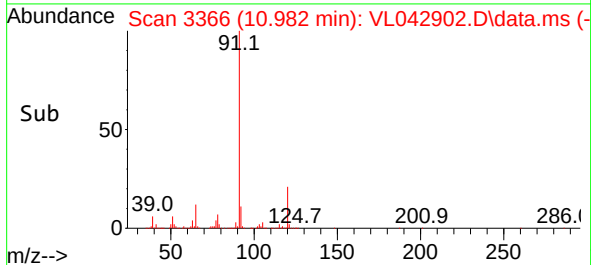
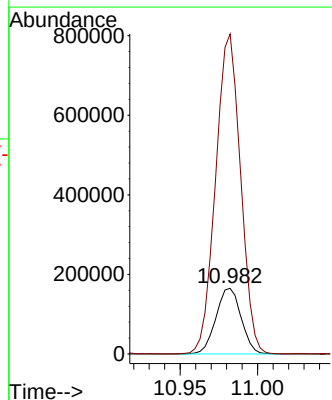
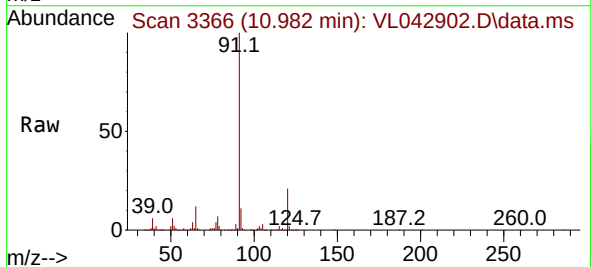
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

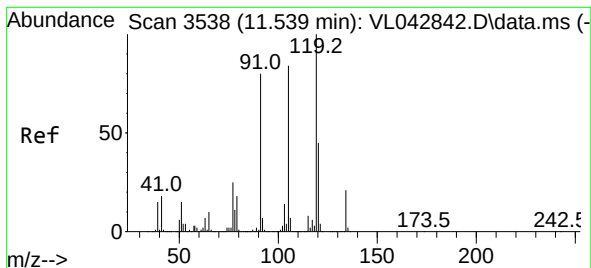
Tgt Ion: 83 Resp: 295111
Ion Ratio Lower Upper
83 100
131 8.8 4.8 14.3
85 64.3 32.3 96.8



#64
n-propylbenzene
Concen: 11.717 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:120 Resp: 186258
Ion Ratio Lower Upper
120 100
91 484.6 375.8 563.6

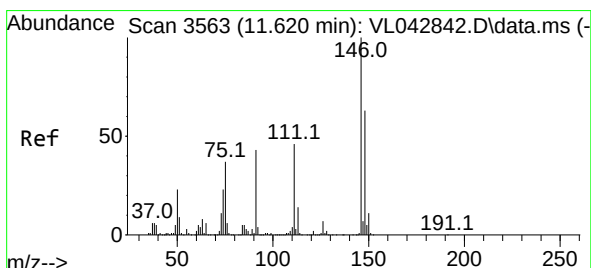
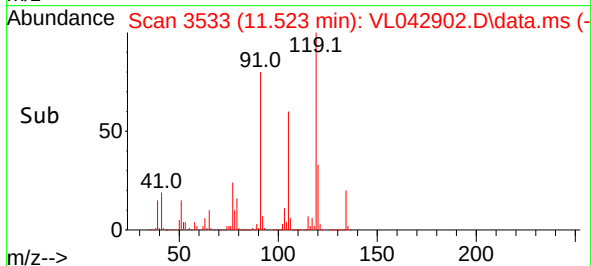
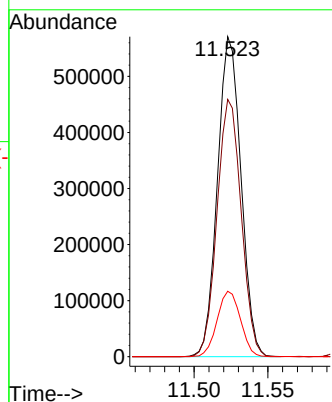
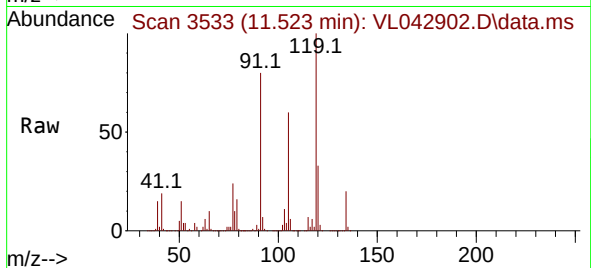




#65
 tert-Butylbenzene
 Concen: 11.541 ppbv
 RT: 11.523 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

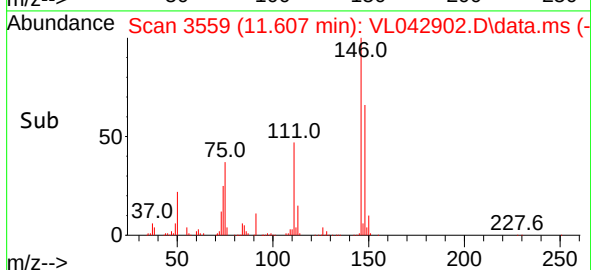
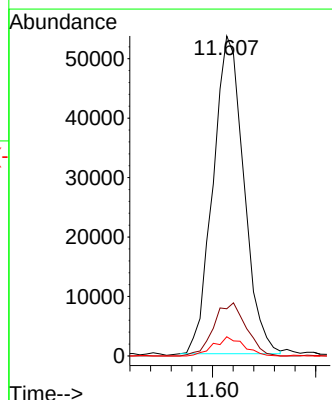
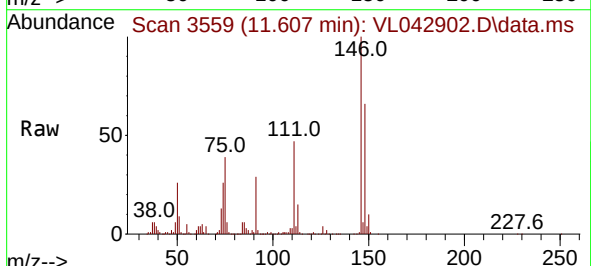
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0908ABS01

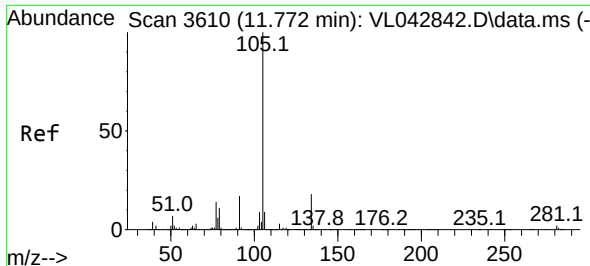
Tgt Ion:119 Resp: 633844
 Ion Ratio Lower Upper
 119 100
 91 82.5 63.9 95.9
 134 20.3 17.0 25.4



#66
 Benzyl Chloride
 Concen: 7.954 ppbv
 RT: 11.607 min Scan# 3559
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 55458
 Ion Ratio Lower Upper
 91 100
 126 17.6 14.2 21.4
 128 5.9 5.0 7.6

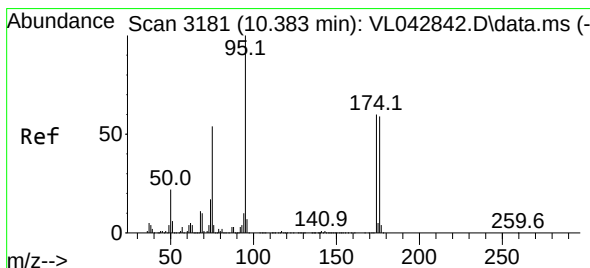
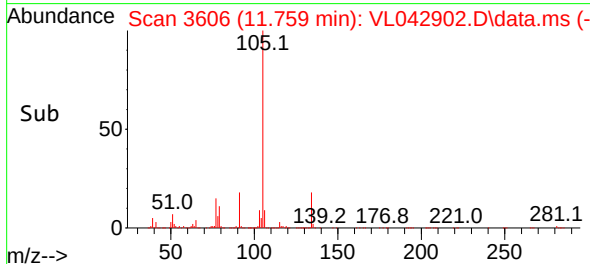
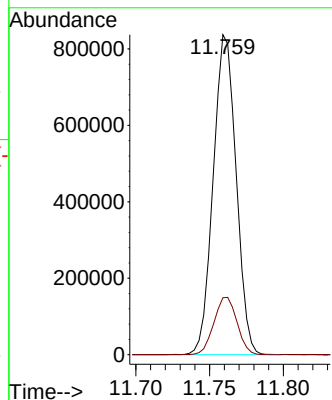
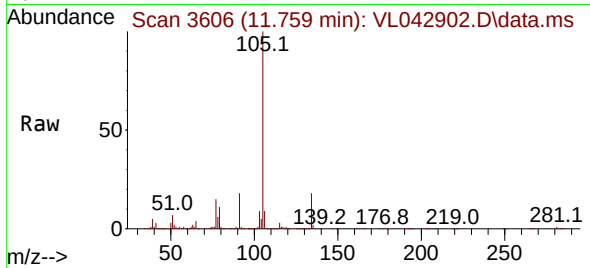




#67
 sec-Butylbenzene
 Concen: 11.739 ppbv
 RT: 11.759 min Scan# 3176
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

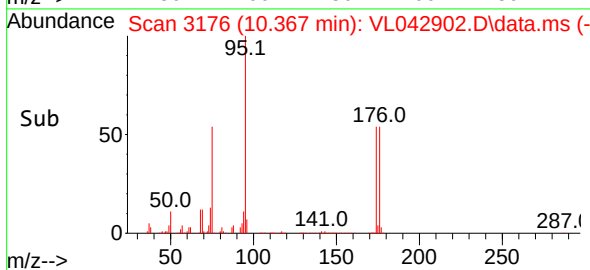
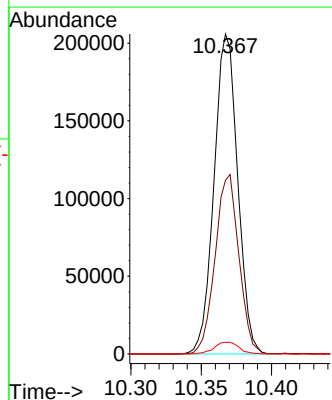
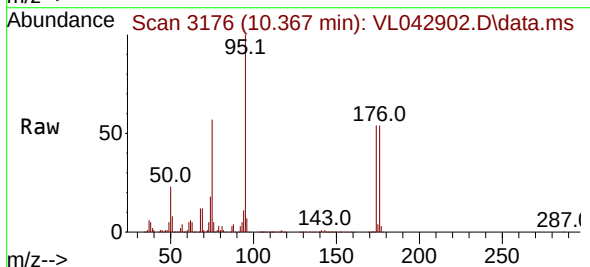
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

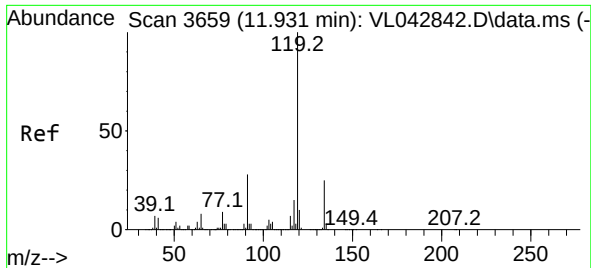
Tgt Ion:105 Resp: 904977
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.481 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 95 Resp: 240840
 Ion Ratio Lower Upper
 95 100
 174 56.6 48.4 72.6
 175 3.8 3.8 5.8

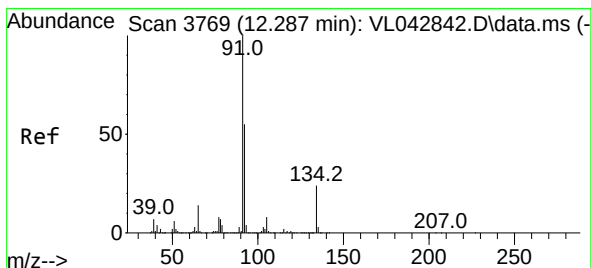
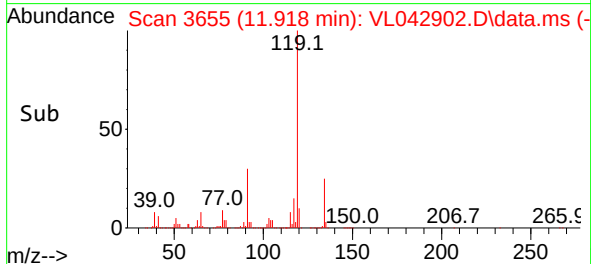
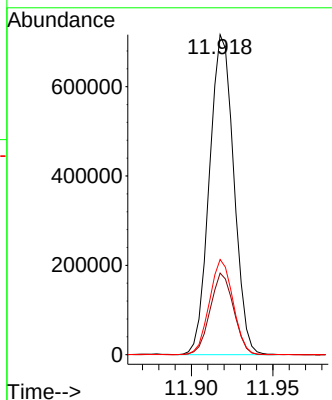
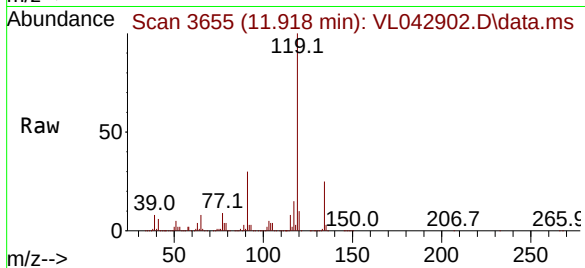




#69
 p-Isopropyltoluene
 Concen: 11.229 ppbv
 RT: 11.918 min Scan# 3655
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

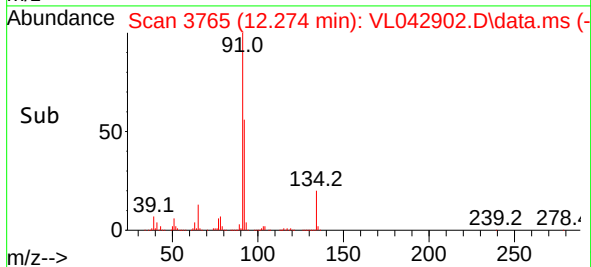
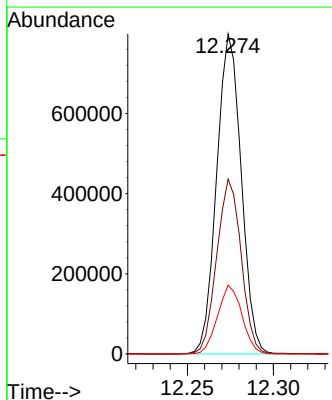
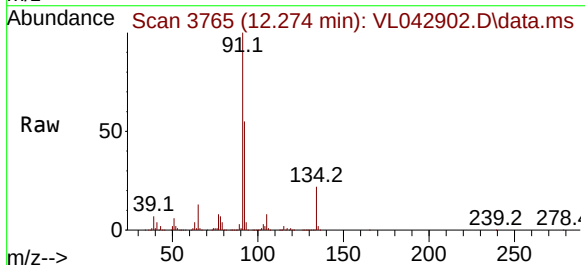
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0908ABS01

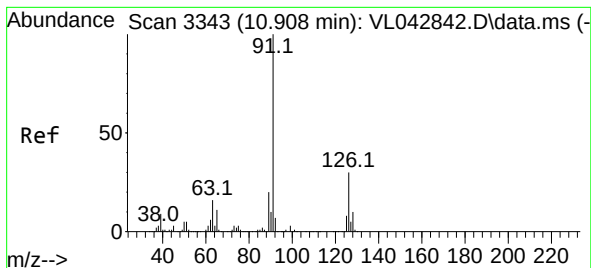
Tgt Ion:119 Resp: 743217
 Ion Ratio Lower Upper
 119 100
 134 24.6 20.6 30.8
 91 28.9 22.6 34.0



#70
 n-Butylbenzene
 Concen: 12.084 ppbv
 RT: 12.274 min Scan# 3765
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 793205
 Ion Ratio Lower Upper
 91 100
 92 54.3 44.6 66.8
 134 21.4 19.0 28.4





#71

2-Chlorotoluene

Concen: 11.398 ppbv

RT: 10.892 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

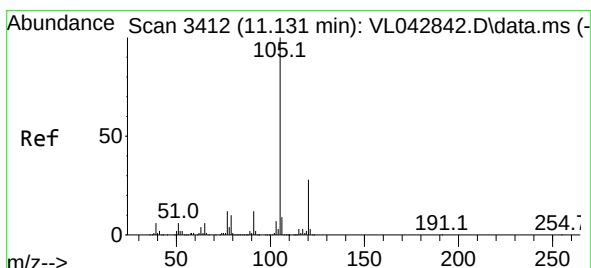
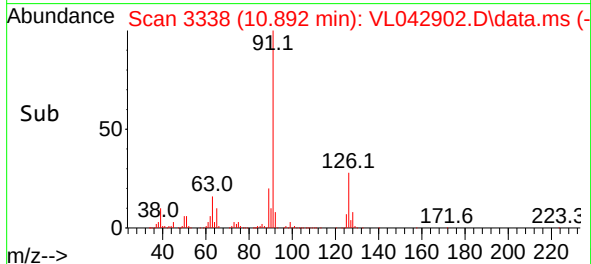
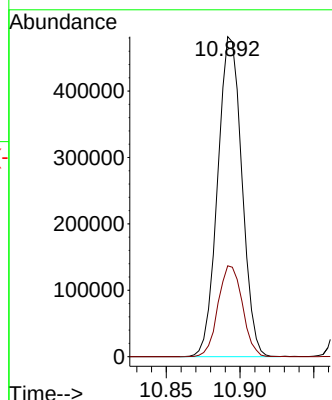
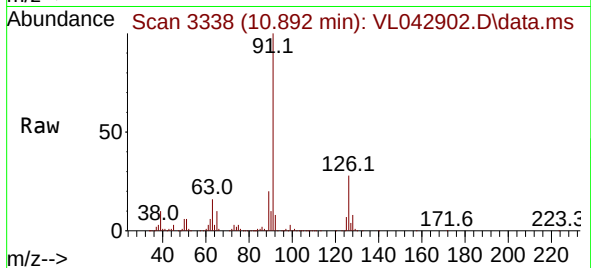
VL0908ABS01

Tgt Ion: 91 Resp: 551398

Ion Ratio Lower Upper

91 100

126 28.5 12.0 47.8



#72

4-Ethyltoluene

Concen: 11.871 ppbv

RT: 11.118 min Scan# 3408

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion: 105 Resp: 613510

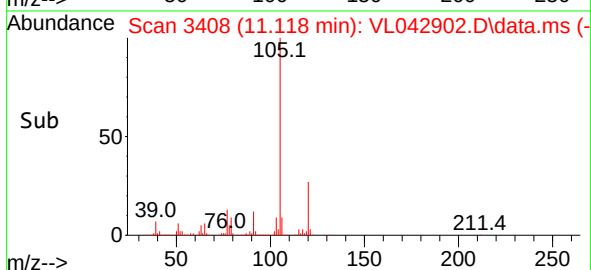
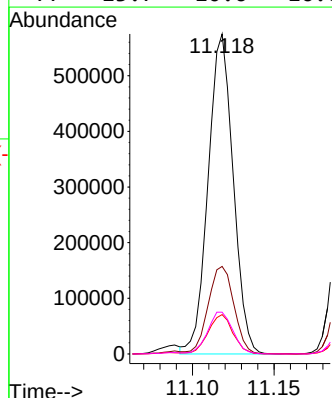
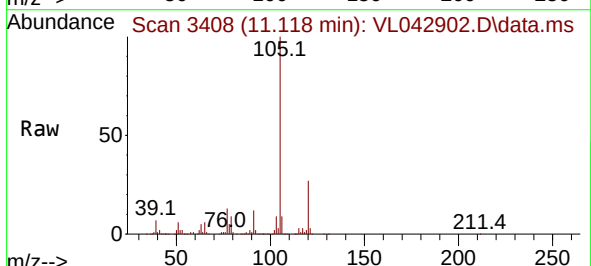
Ion Ratio Lower Upper

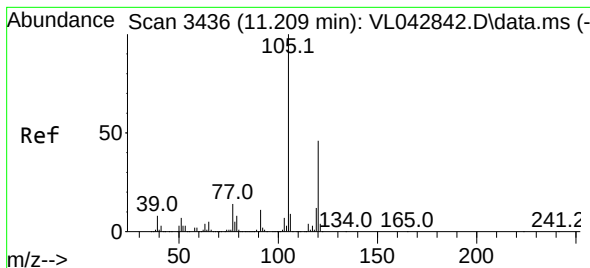
105 100

120 28.9 23.4 35.2

91 12.5 9.8 14.6

77 13.7 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 11.496 ppbv

RT: 11.196 min Scan# 34

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_1

ClientSampleId :

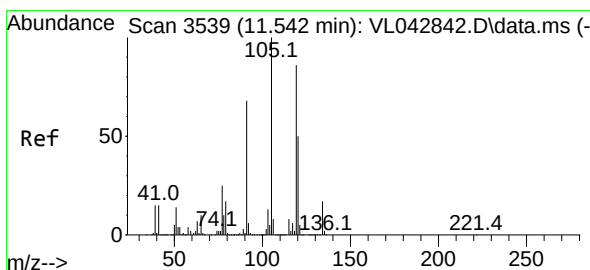
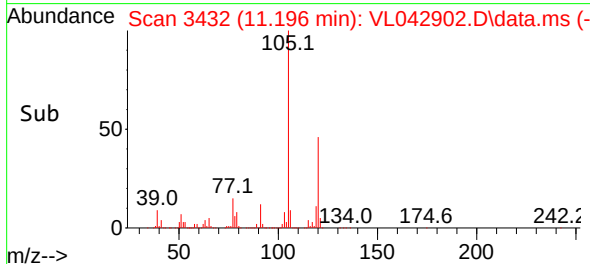
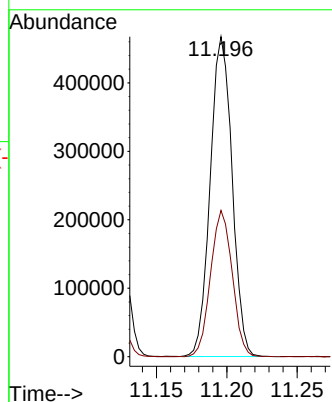
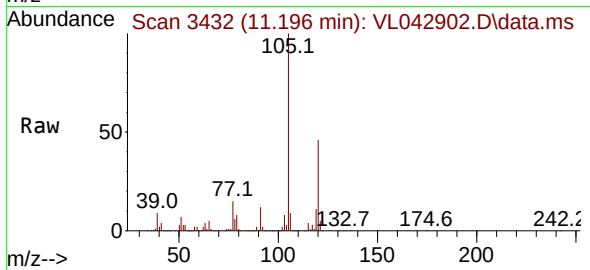
VL0908ABS01

Tgt Ion:105 Resp: 505222

Ion Ratio Lower Upper

105 100

120 45.7 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 11.668 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 562868

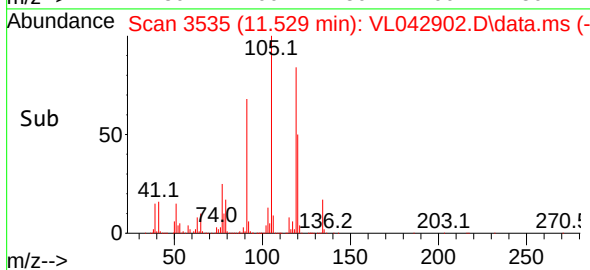
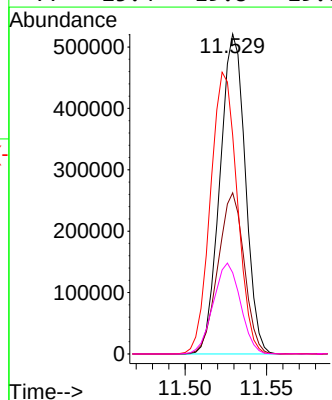
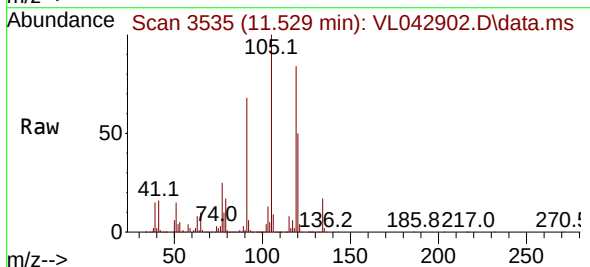
Ion Ratio Lower Upper

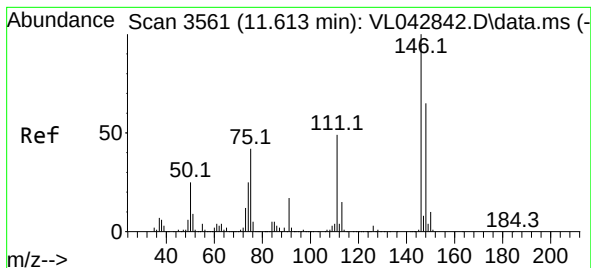
105 100

120 50.3 39.8 59.6

91 68.3 54.2 81.4

77 25.4 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 11.778 ppbv

RT: 11.600 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

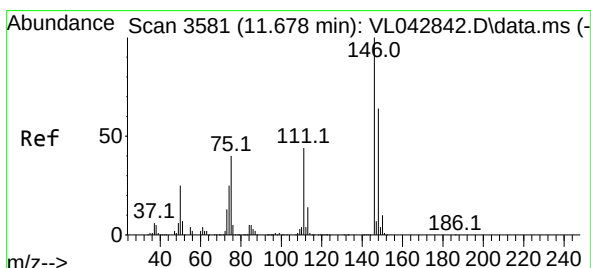
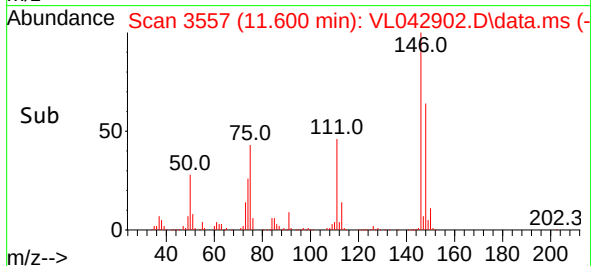
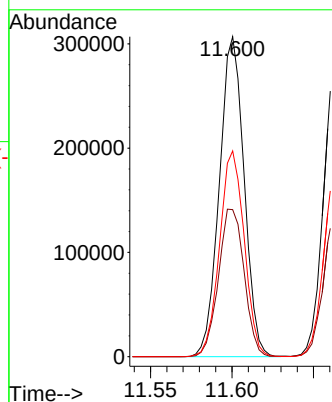
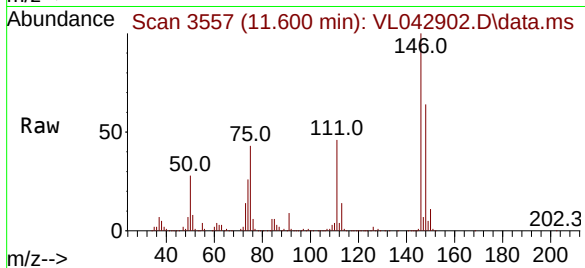
Tgt Ion:146 Resp: 322979

Ion Ratio Lower Upper

146 100

111 48.0 23.9 71.7

148 64.2 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 11.563 ppbv

RT: 11.665 min Scan# 3577

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

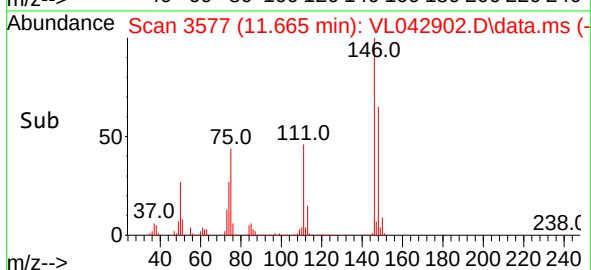
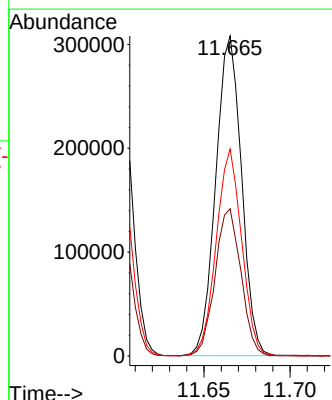
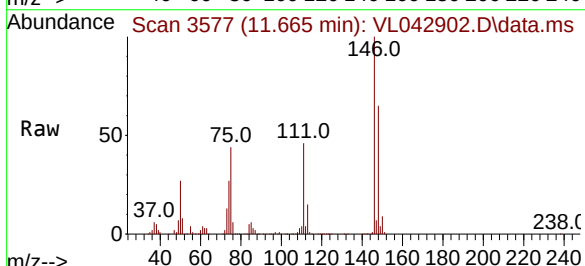
Tgt Ion:146 Resp: 320689

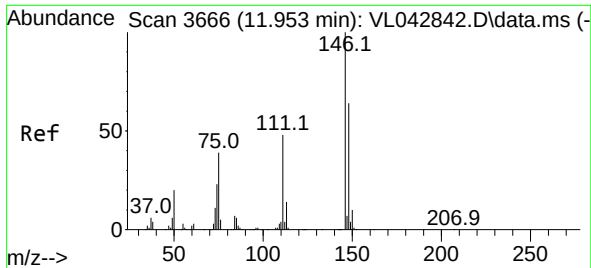
Ion Ratio Lower Upper

146 100

111 46.3 22.7 68.1

148 64.1 31.8 95.3

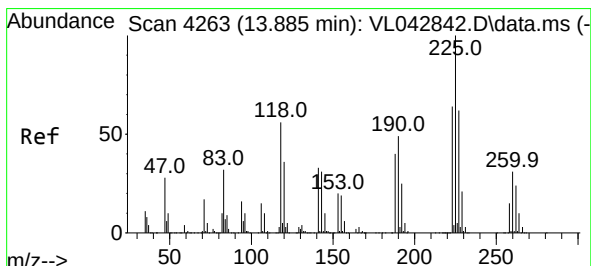
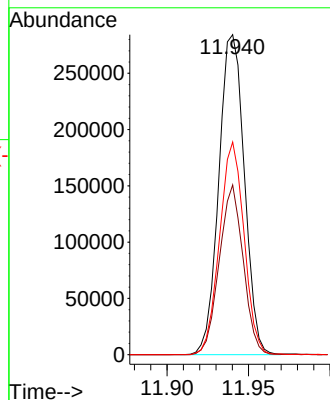
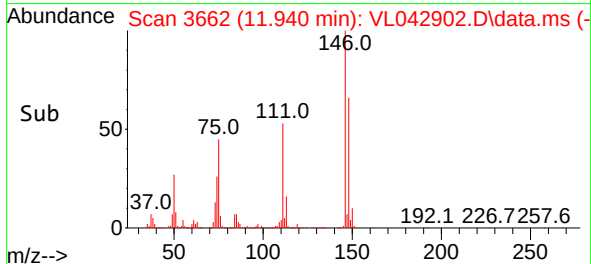
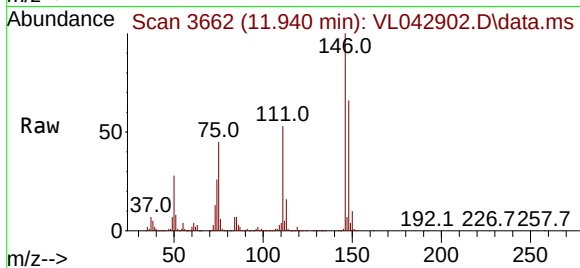




#77
1,2-Dichlorobenzene
Concen: 11.524 ppbv
RT: 11.940 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

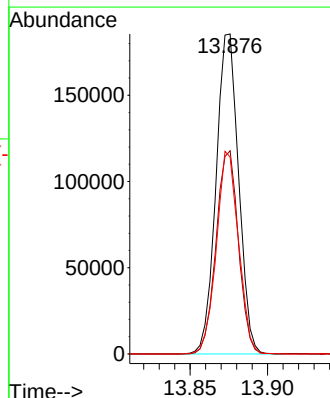
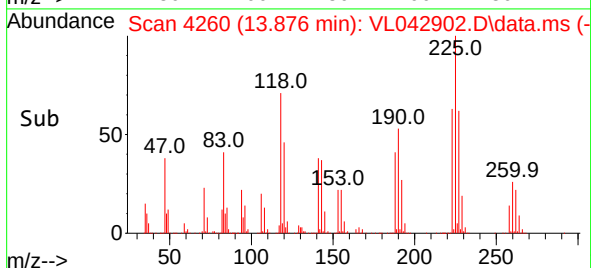
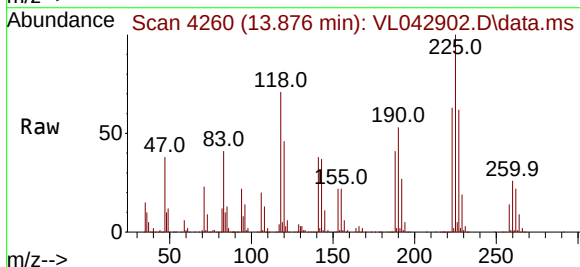
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

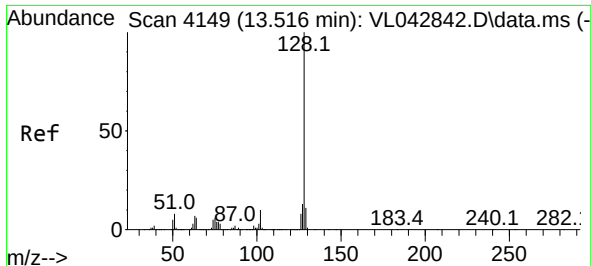
Tgt Ion:146 Resp: 309433
Ion Ratio Lower Upper
146 100
111 49.7 24.6 74.0
148 63.7 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 8.542 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:225 Resp: 187990
Ion Ratio Lower Upper
225 100
223 63.0 51.4 77.2
227 62.1 51.9 77.9





#79

Naphthalene

Concen: 10.914 ppbv

RT: 13.507 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01

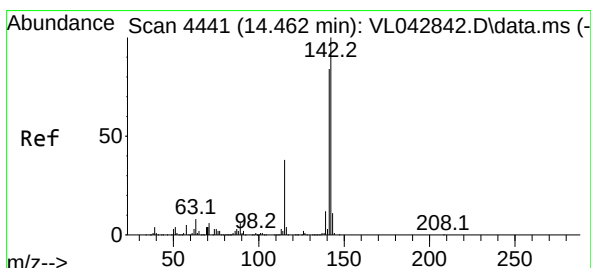
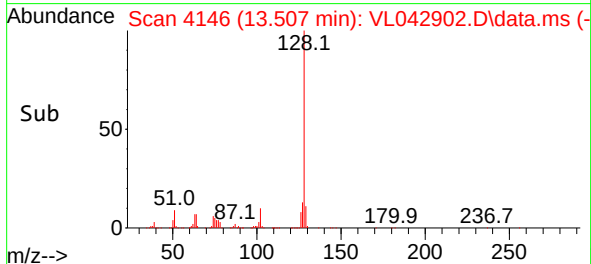
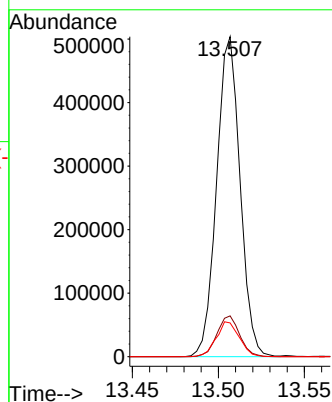
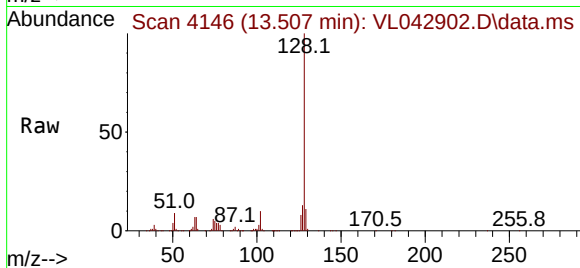
Tgt Ion:128 Resp: 477313

Ion Ratio Lower Upper

128 100

127 12.8 10.6 16.0

129 10.6 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 8.713 ppbv

RT: 14.449 min Scan# 4437

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

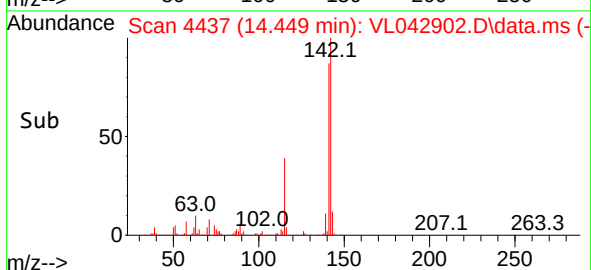
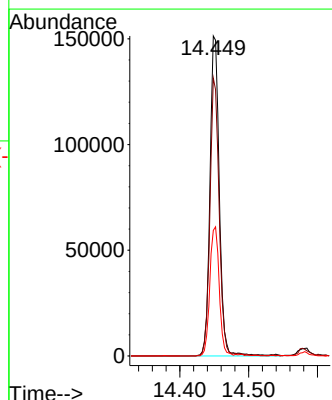
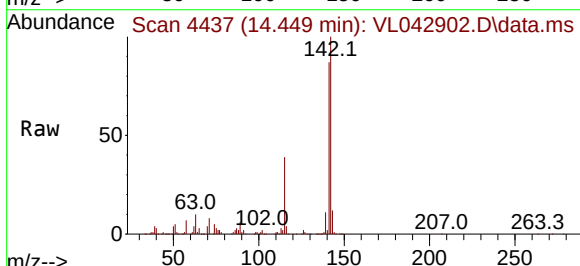
Tgt Ion:142 Resp: 142381

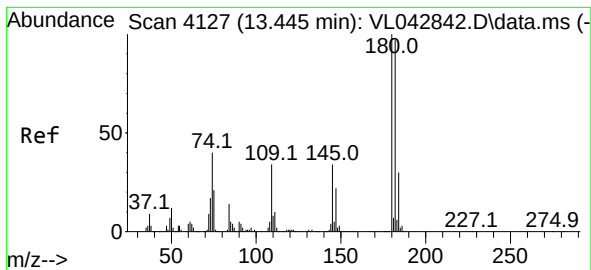
Ion Ratio Lower Upper

142 100

141 85.9 67.0 100.6

115 41.3 30.9 46.3

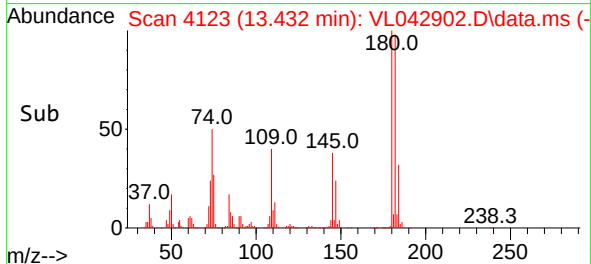
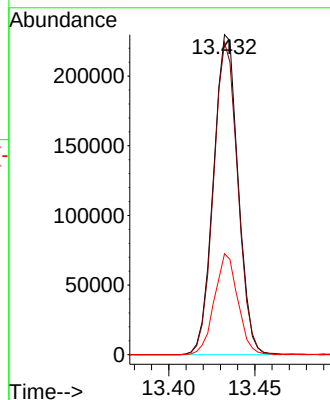
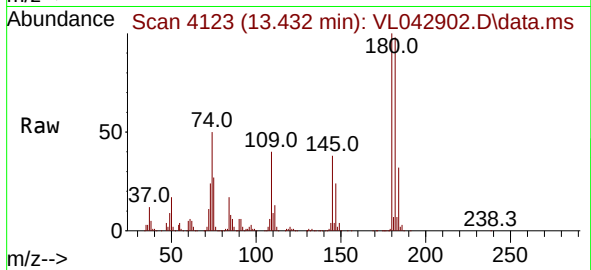




#81
 1,2,4-Trichlorobenzene
 Concen: 10.401 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Tgt Ion:180 Resp: 228630
 Ion Ratio Lower Upper
 180 100
 182 96.5 76.9 115.3
 184 30.0 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042905.D
 Acq On : 08 Sep 2025 15:59
 Operator : SY/MD
 Sample : Q3037-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Quant Time: Sep 09 00:57:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	141221	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	372044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	303028	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	235889	10.380	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9819	0.474	ppbv	97
3) Chlorodifluoromethane	1.473	51	86667	3.788	ppbv #	90
4) Chloromethane	1.531	50	8391	1.005	ppbv	100
7) Chloroethane	1.700	64	294	0.092	ppbv #	85
9) Propene	1.884	41	251325	25.438	ppbv	92
10) Heptane	4.965	43	897	0.034	ppbv #	26
11) Trichlorofluoromethane	1.900	101	4801	0.235	ppbv	86
12) 1,1,2-Trichlorotrifluoro...	2.140	101	1202	0.074	ppbv #	82
13) Ethanol	1.719	45	171366	189.695	ppbv	92
15) Acetone	1.832	43	2269673	121.496	ppbv #	76
16) 1,3-Butadiene	1.619	39	5125	0.605	ppbv #	22
17) tert-Butyl alcohol	2.043	59	3792	0.171	ppbv #	1
19) Isopropyl Alcohol	1.884	45	2182649	195.618	ppbv	98
20) Methylene Chloride	2.062	84	8047	1.028	ppbv #	74
21) Allyl Chloride	1.958	41	7443	0.564	ppbv #	23
23) Vinyl Acetate	2.450	43	21178	0.825	ppbv #	86
24) 1,1-Dichloroethane	2.777	63	551	0.033	ppbv #	88
25) Ethyl Acetate	2.832	43	150520	3.329	ppbv #	95
26) Hexane	2.819	57	19030	0.912	ppbv #	1
27) Carbon Disulfide	2.146	76	1070	0.053	ppbv #	43
29) Chloroform	2.845	83	8213	0.276	ppbv	93
31) cis-1,2-Dichloroethene	2.832	61	17577	0.843	ppbv #	23
34) 2-Butanone	2.554	43	27696	1.102	ppbv	97
35) Carbon Tetrachloride	3.755	117	4459	0.174	ppbv #	97
36) Benzene	3.648	78	2959	0.083	ppbv #	81
37) 1,2-Dichloroethane	3.211	62	750	0.040	ppbv #	79
39) 1,2-Dichloropropane	3.949	63	97144	7.466	ppbv #	27
40) 1,4-Dioxane	4.590	88	1112	0.180	ppbv #	22
41) Tetrahydrofuran	3.052	42	1132	0.081	ppbv #	66
43) Methyl Methacrylate	4.868	69	1057	0.072	ppbv #	1
50) 4-Methyl-2-Pentanone	5.745	43	68077	2.005	ppbv	99
51) 2-Hexanone	7.438	43	4166	0.156	ppbv #	97
53) Toluene	6.927	91	6220	0.147	ppbv #	1
58) Ethyl Benzene	9.348	91	2812	0.053	ppbv #	85
59) m/p-Xylene	9.545	91	1627	0.039	ppbv #	100
60) o-Xylene	9.959	91	4723	0.112	ppbv	87
61) Styrene	9.866	104	1409	0.071	ppbv #	60
62) Isopropylbenzene	10.529	105	1966	0.032	ppbv	98
64) n-propylbenzene	10.989	120	589	0.037	ppbv #	1
65) tert-Butylbenzene	11.532	119	5846	0.108	ppbv #	47
67) sec-Butylbenzene	11.759	105	2374	0.031	ppbv #	48
69) p-Isopropyltoluene	11.921	119	4177	0.064	ppbv #	81
72) 4-Ethyltoluene	11.121	105	12693	0.248	ppbv #	56

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

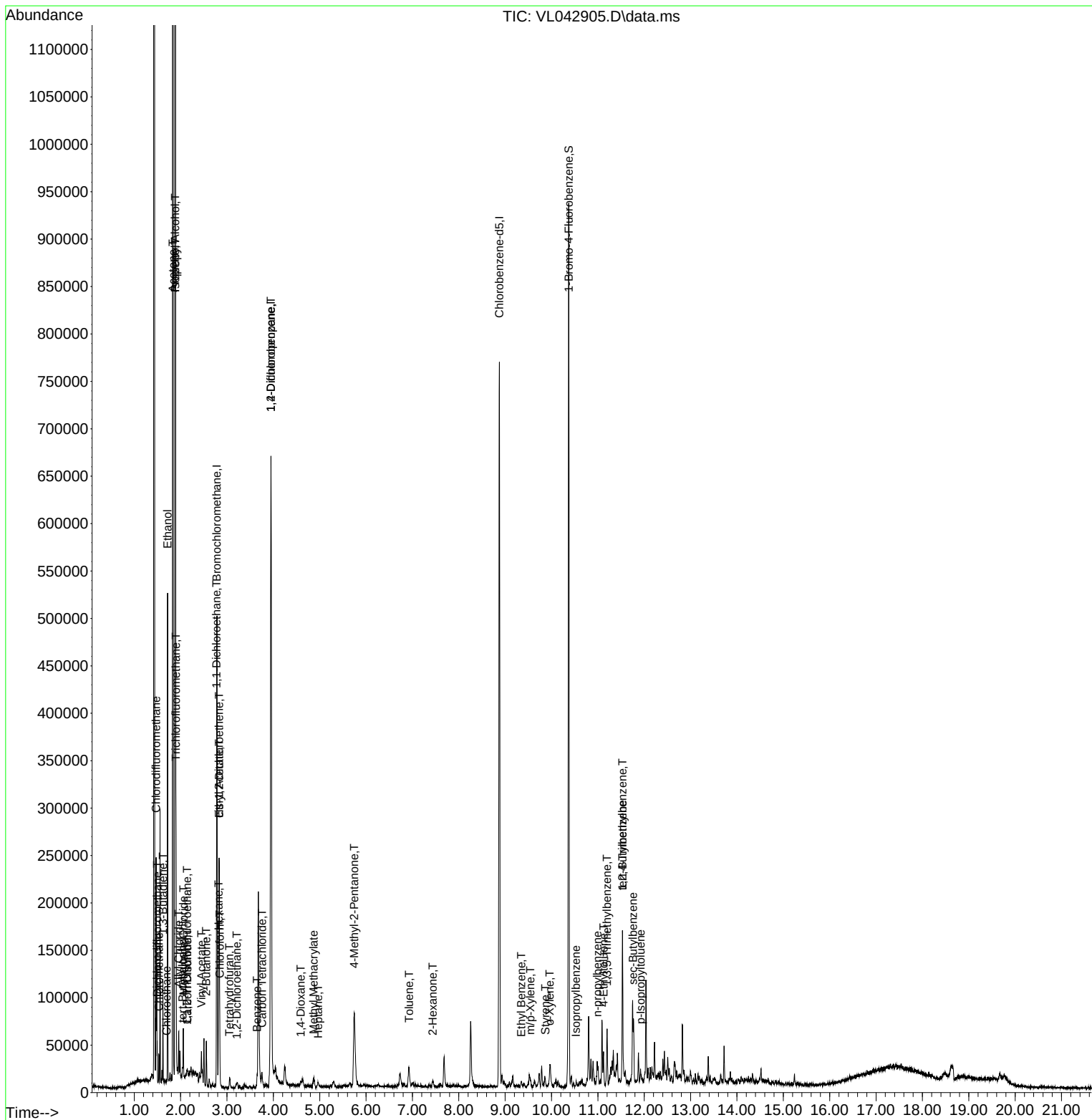
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

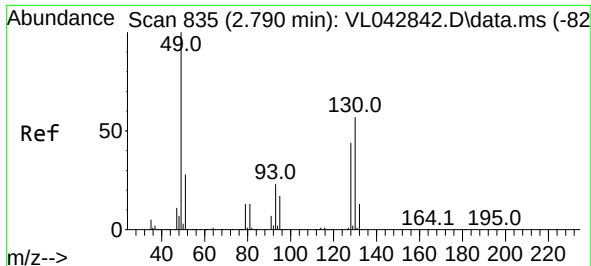
Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.196	105	14080	0.324	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	53636	1.124	ppbv #	59

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

Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

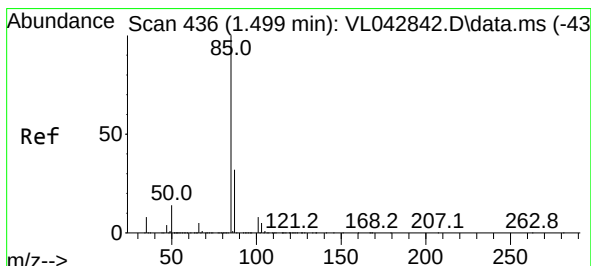
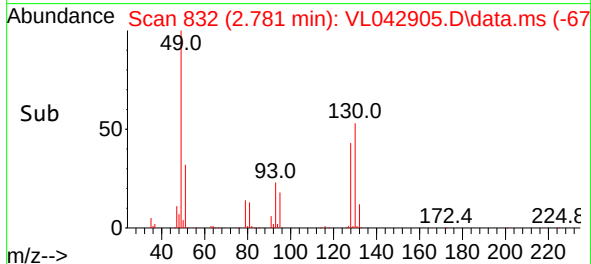
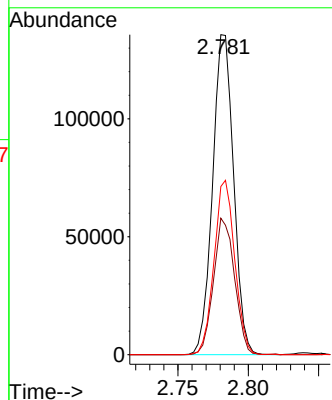
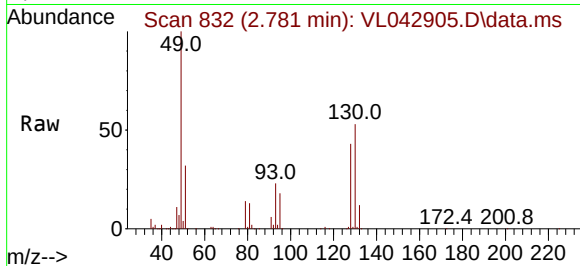




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. 0.004 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

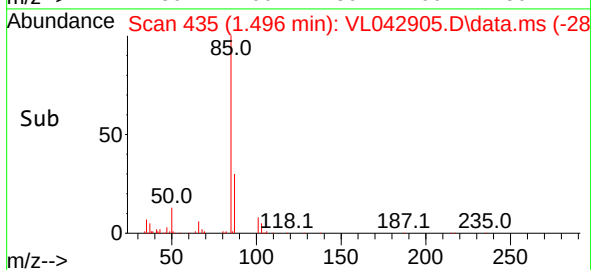
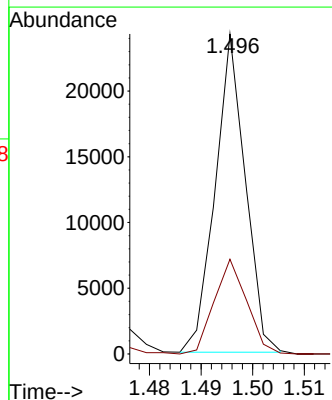
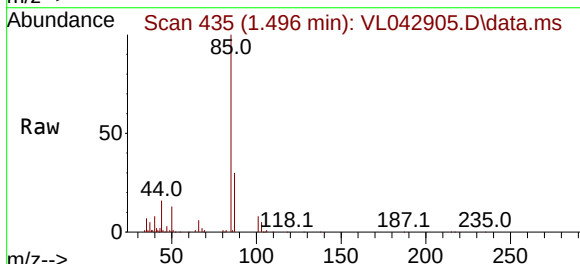
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

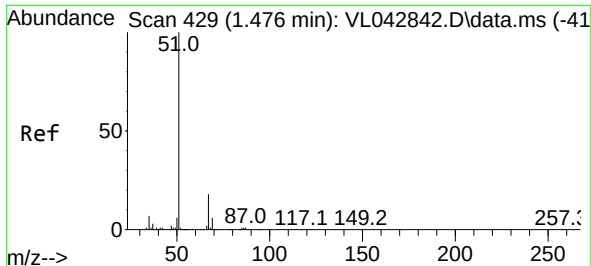
Tgt Ion: 49 Resp: 141221
Ion Ratio Lower Upper
49 100
128 42.8 23.7 71.1
130 53.7 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.474 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 85 Resp: 9819
Ion Ratio Lower Upper
85 100
87 29.8 25.3 37.9

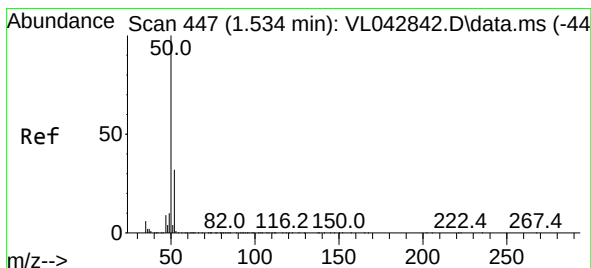
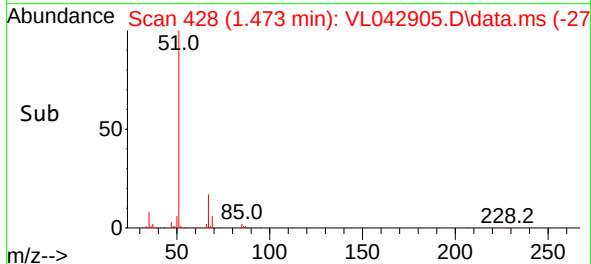
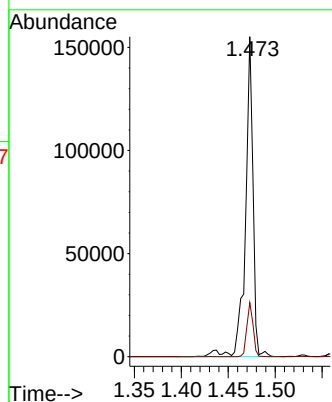
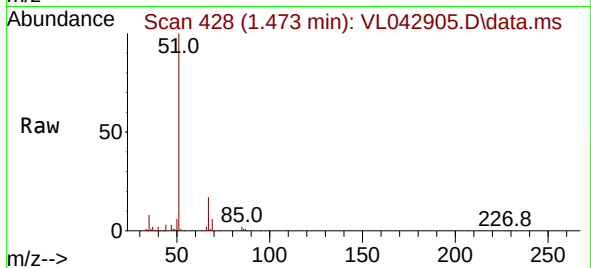




#3
 Chlorodifluoromethane
 Concen: 3.788 ppbv
 RT: 1.473 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

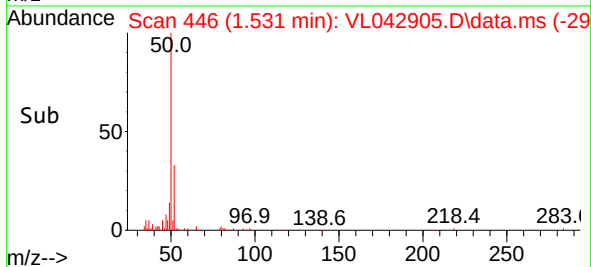
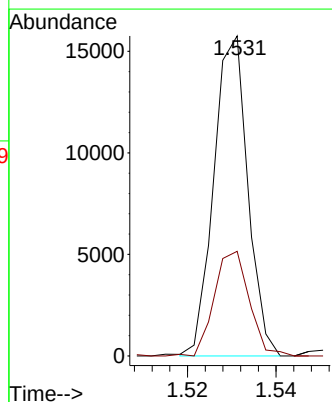
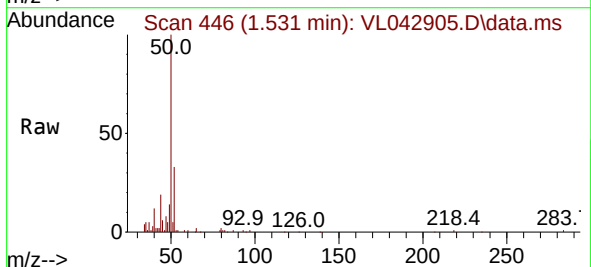
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

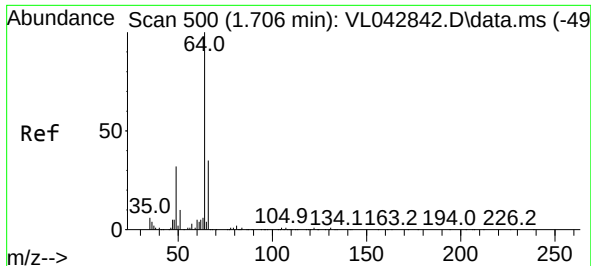
Tgt Ion: 51 Resp: 86667
 Ion Ratio Lower Upper
 51 100
 67 14.0 14.9 22.3#



#4
 Chloromethane
 Concen: 1.005 ppbv
 RT: 1.531 min Scan# 446
 Delta R.T. 0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

Tgt Ion: 50 Resp: 8391
 Ion Ratio Lower Upper
 50 100
 52 32.2 25.9 38.9

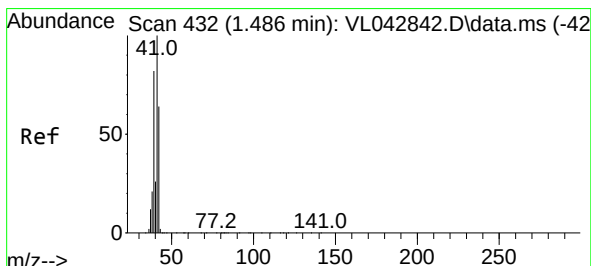
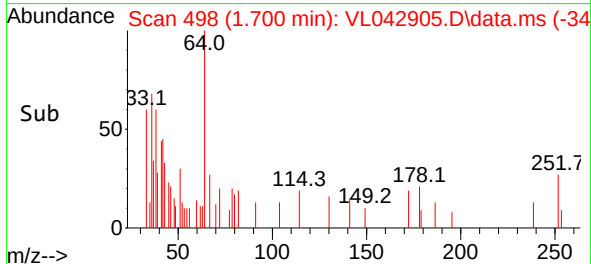
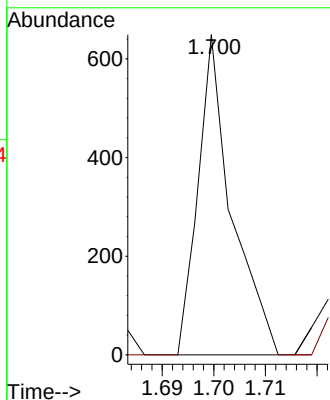
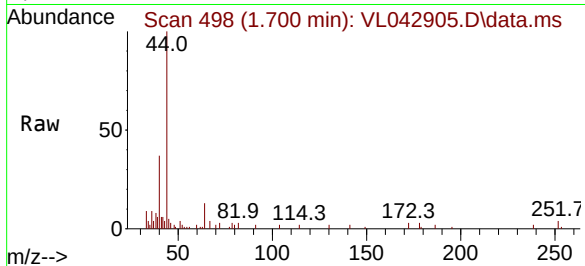




#7
Chloroethane
Concen: 0.092 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

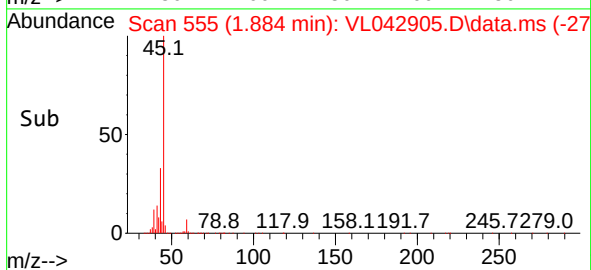
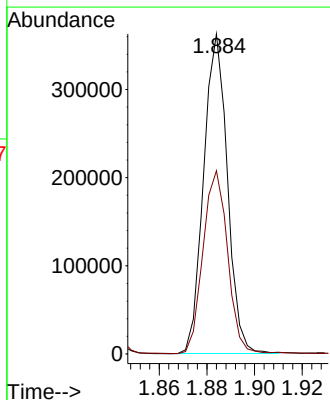
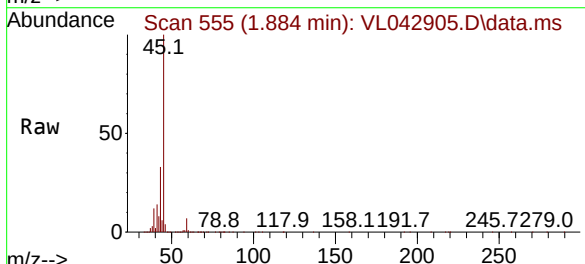
Instrument :
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ClientSampleId :
IA-2DUP

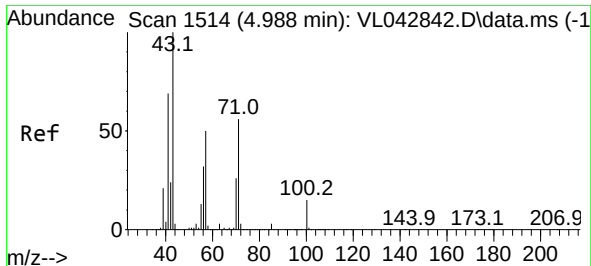
Tgt Ion: 64 Resp: 294
Ion Ratio Lower Upper
64 100
66 27.1 28.6 42.8#



#9
Propene
Concen: 25.438 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.408 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 41 Resp: 251325
Ion Ratio Lower Upper
41 100
42 59.5 53.0 79.4

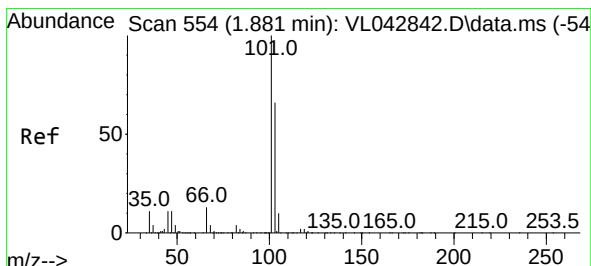
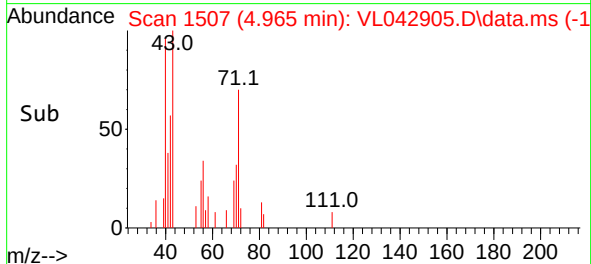
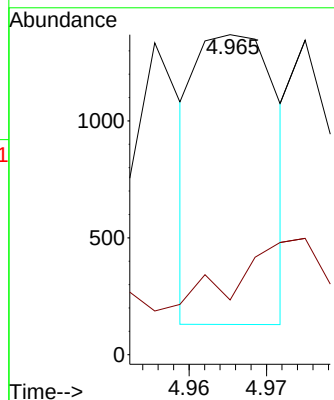
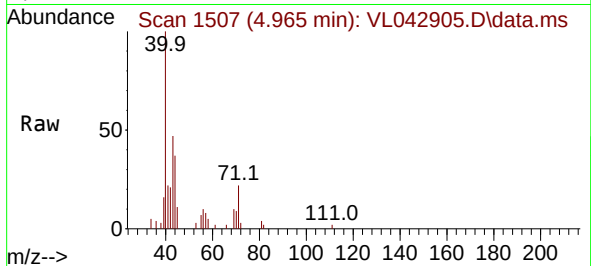




#10
Heptane
Concen: 0.034 ppbv
RT: 4.965 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

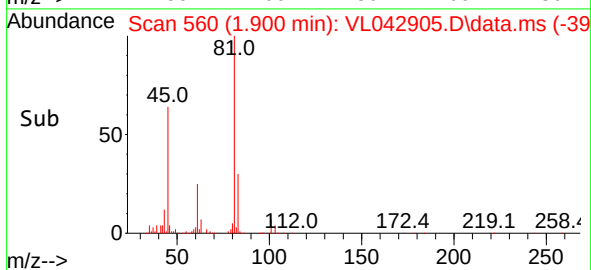
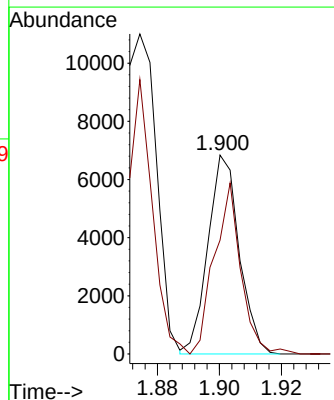
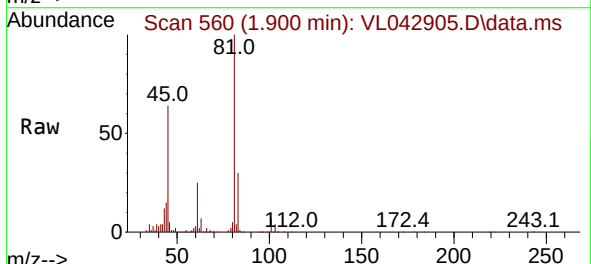
Instrument :
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ClientSampleId :
IA-2DUP

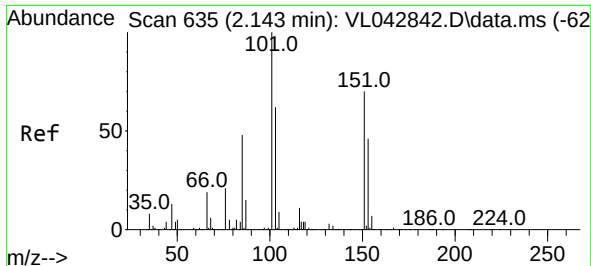
Tgt Ion: 43 Resp: 897
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0#



#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.029 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 101 Resp: 4801
Ion Ratio Lower Upper
101 100
103 54.7 52.5 78.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.074 ppbv

RT: 2.140 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

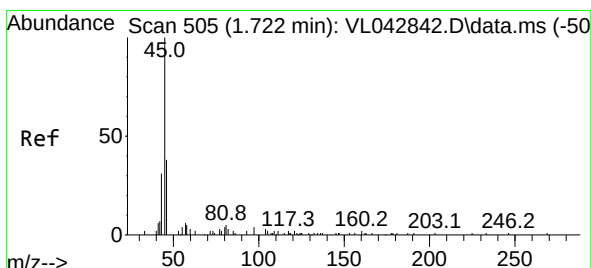
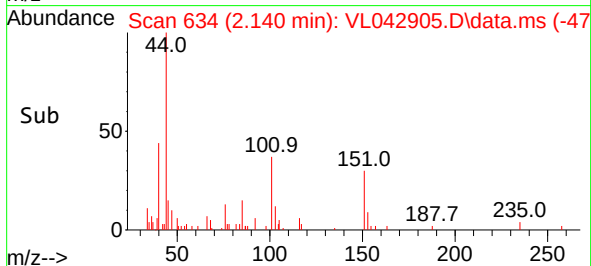
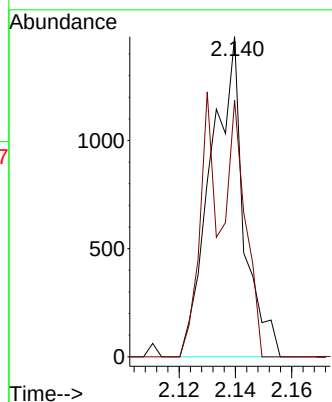
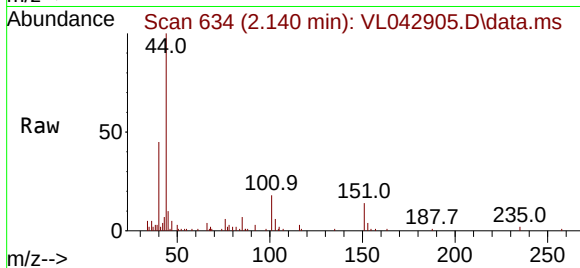
IA-2DUP

Tgt Ion:101 Resp: 1202

Ion Ratio Lower Upper

101 100

151 85.3 56.4 84.6#



#13

Ethanol

Concen: 189.695 ppbv

RT: 1.719 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042905.D

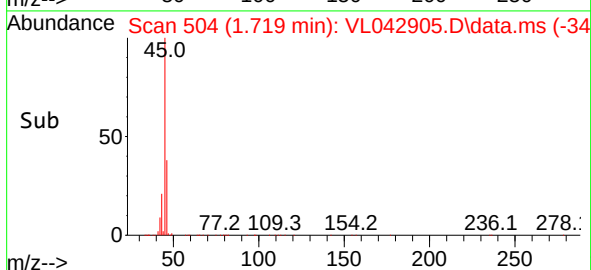
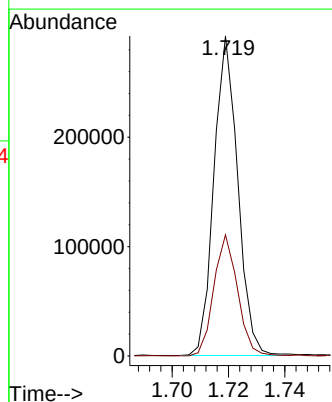
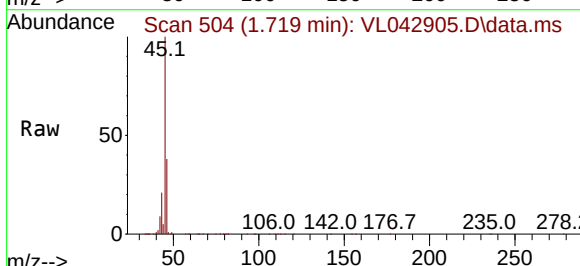
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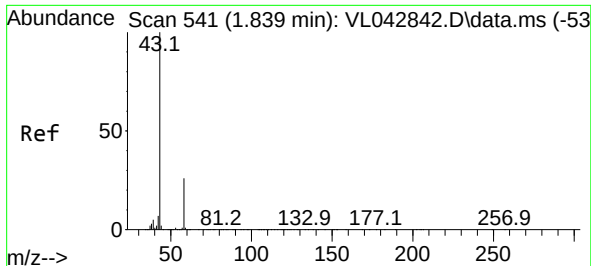
Tgt Ion: 45 Resp: 171366

Ion Ratio Lower Upper

45 100

46 38.4 17.5 69.9

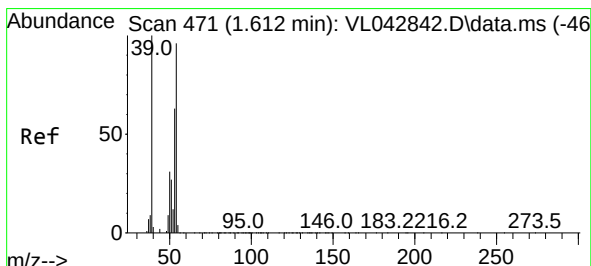
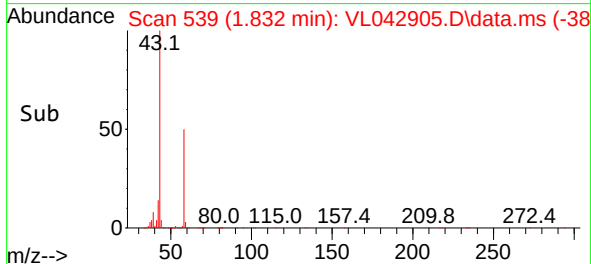
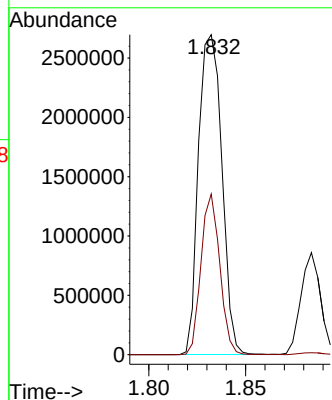
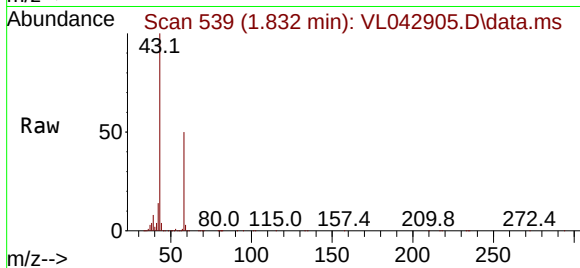




#15
Acetone
Concen: 121.496 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

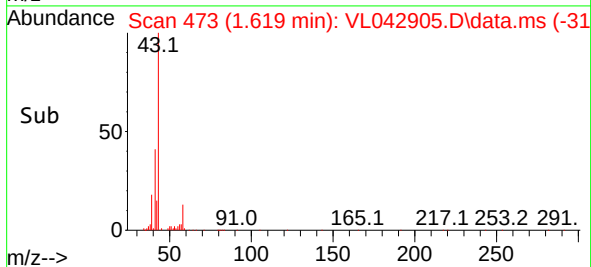
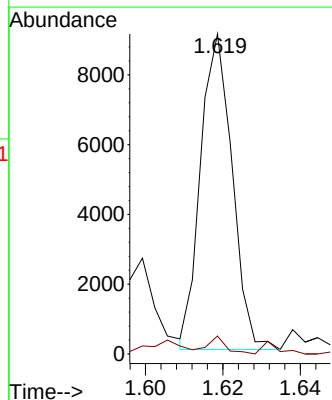
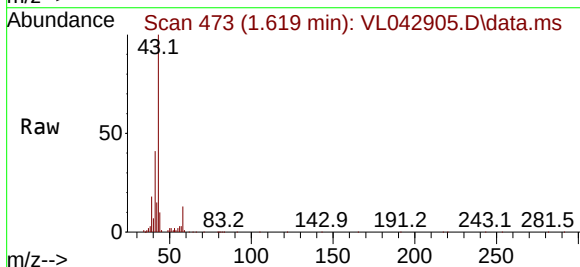
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

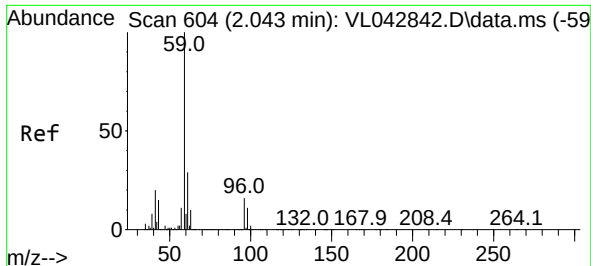
Tgt Ion: 43 Resp: 2269673
Ion Ratio Lower Upper
43 100
58 40.4 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.605 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.016 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 39 Resp: 5125
Ion Ratio Lower Upper
39 100
54 10.8 63.6 95.4#

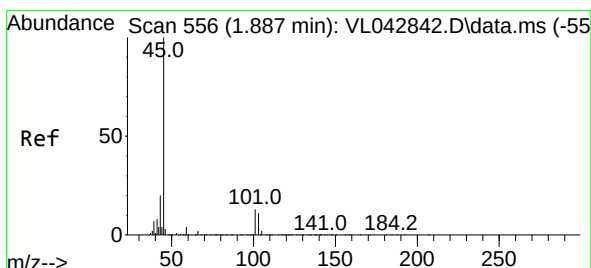
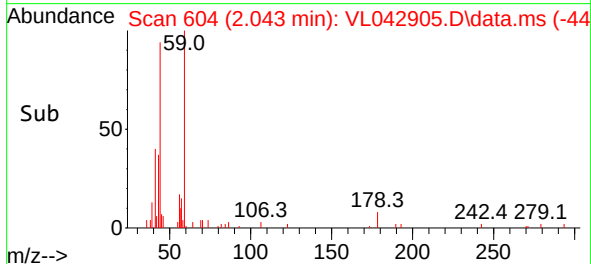
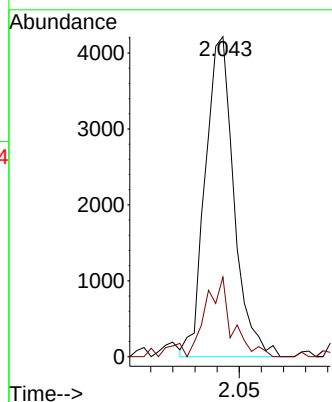
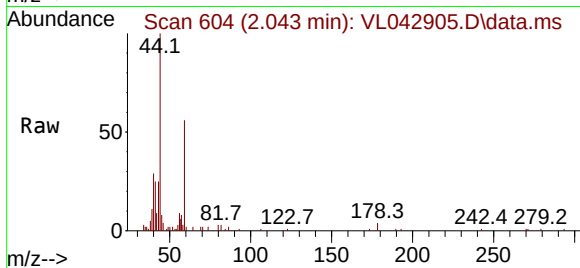




#17
tert-Butyl alcohol
Concen: 0.171 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

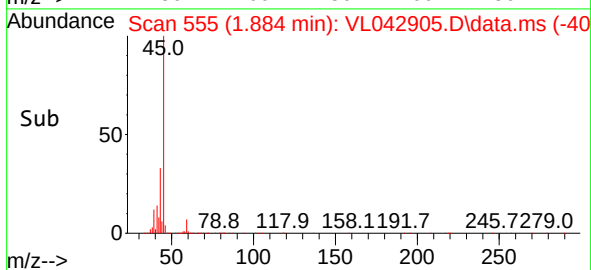
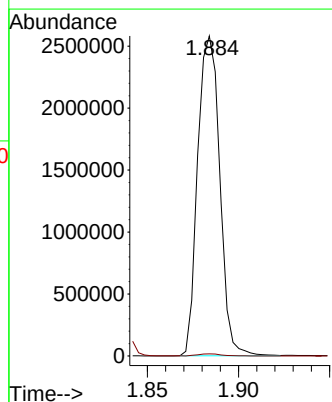
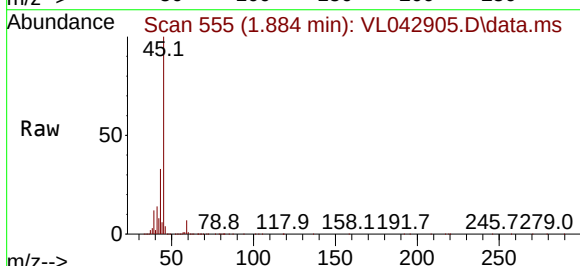
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ClientSampleId :
IA-2DUP

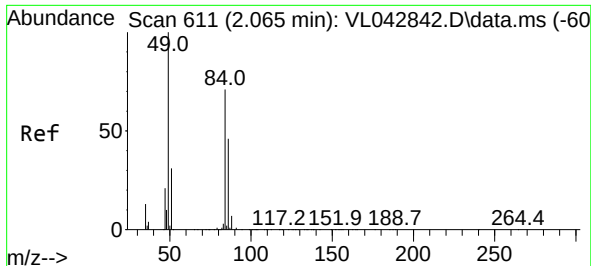
Tgt Ion: 59 Resp: 3792
Ion Ratio Lower Upper
59 100
57 52.6 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 195.618 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 2182649
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

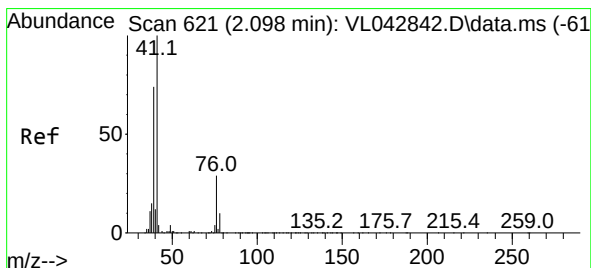
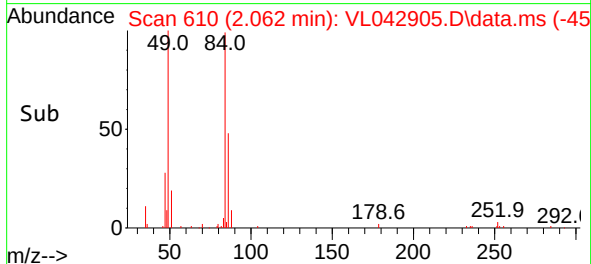
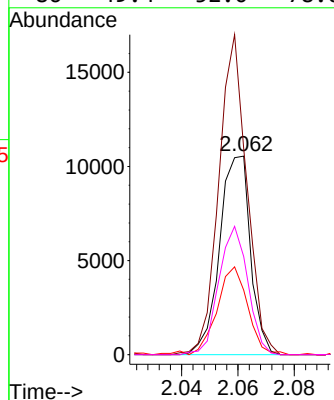
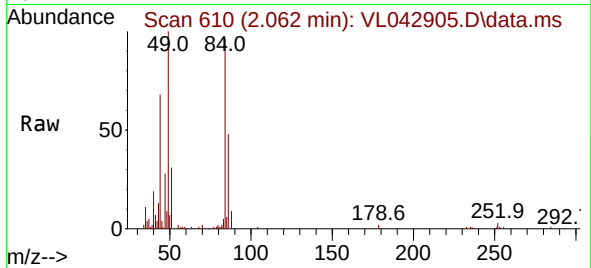




#20
Methylene Chloride
Concen: 1.028 ppbv
RT: 2.062 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

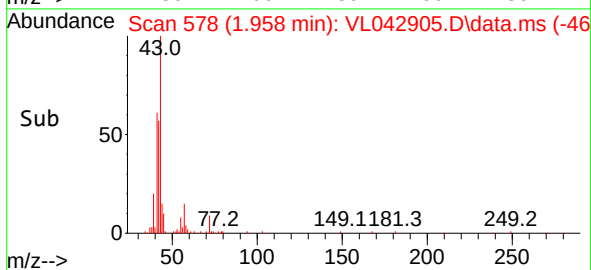
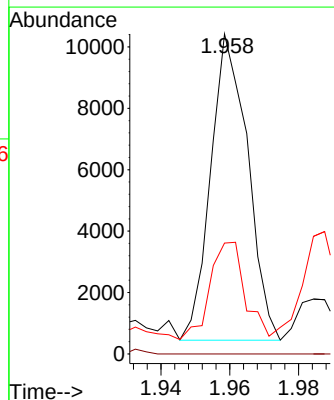
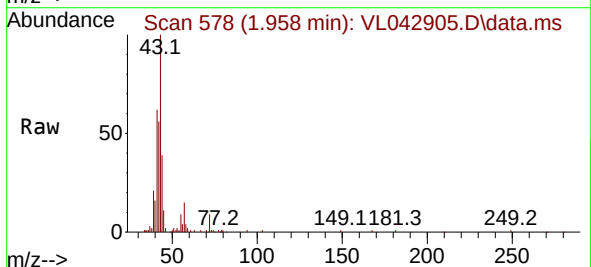
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ClientSampleId :
IA-2DUP

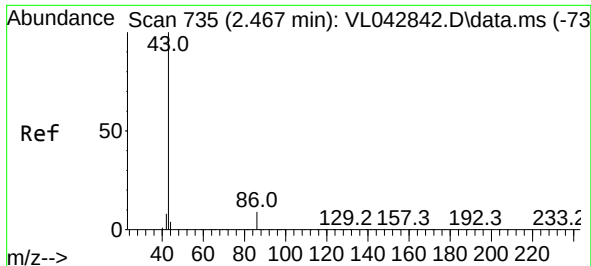
Tgt Ion: 84 Resp: 8047
Ion Ratio Lower Upper
84 100
49 102.7 112.3 168.5#
51 30.7 36.0 54.0#
86 49.4 52.0 78.0#



#21
Allyl Chloride
Concen: 0.564 ppbv
RT: 1.958 min Scan# 578
Delta R.T. -0.130 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 41 Resp: 7443
Ion Ratio Lower Upper
41 100
76 1.3 23.9 35.9#
39 0.0 57.8 86.6#

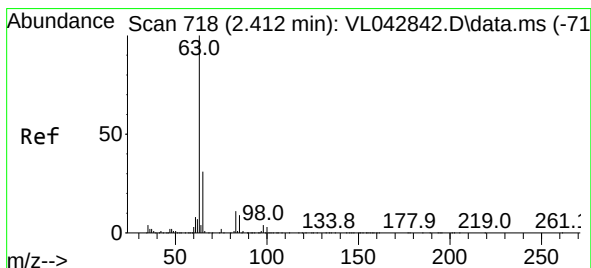
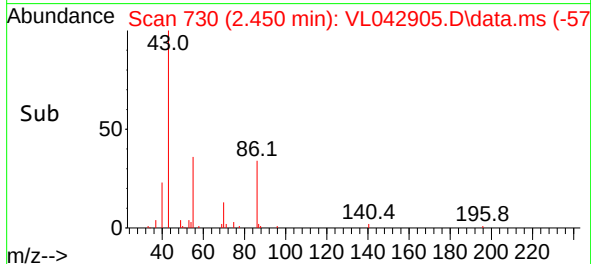
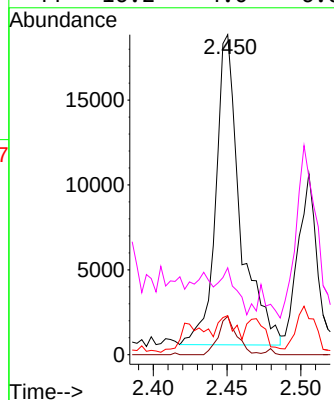
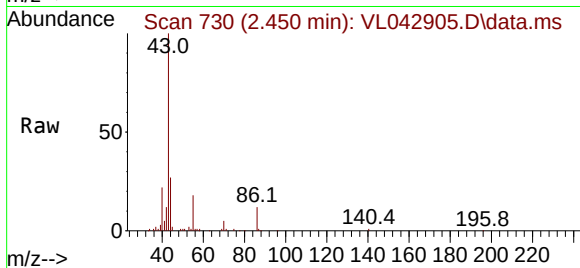




#23
 Vinyl Acetate
 Concen: 0.825 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

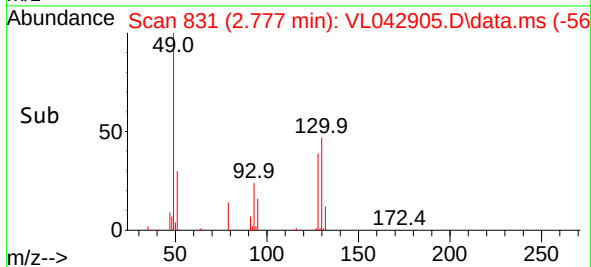
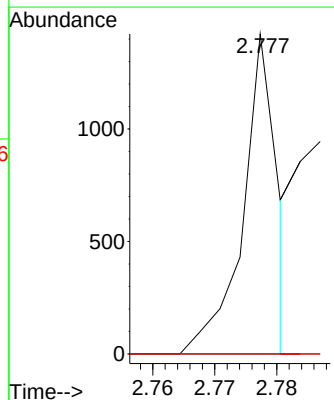
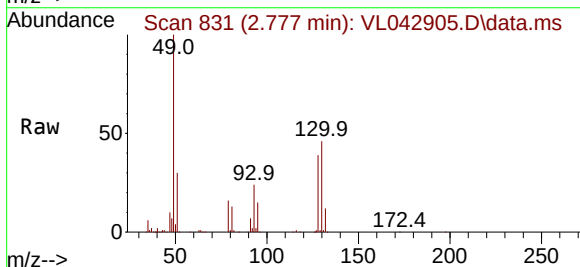
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

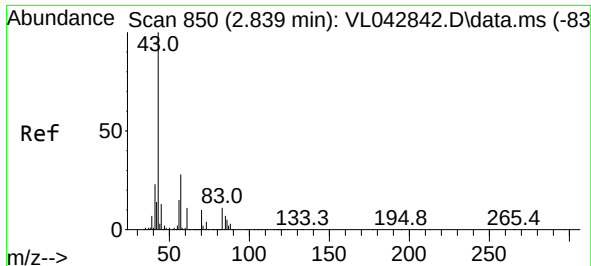
Tgt Ion: 43	Resp: 21178
Ion Ratio	Lower Upper
43 100	
86 12.4	6.6 9.8#
42 10.6	7.0 10.6#
44 16.2	4.0 6.0#



#24
 1,1-Dichloroethane
 Concen: 0.033 ppbv
 RT: 2.777 min Scan# 831
 Delta R.T. 0.375 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

Tgt Ion: 63	Resp: 551
Ion Ratio	Lower Upper
63 100	
98 0.0	2.1 6.5#
100 0.0	1.7 5.1#

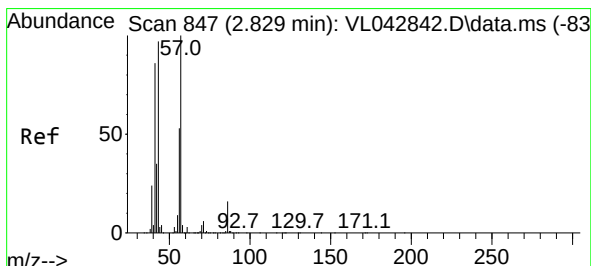
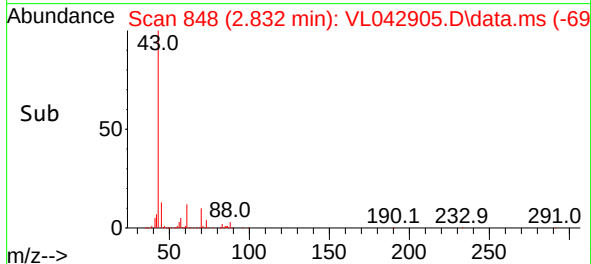
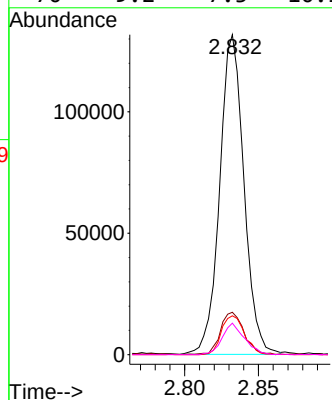
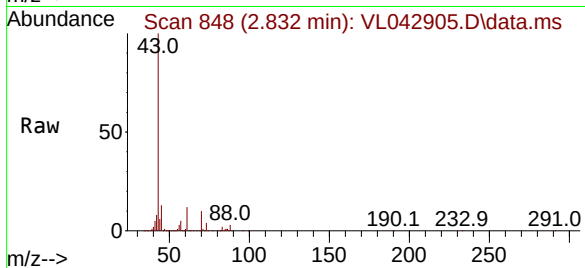




#25
Ethyl Acetate
Concen: 3.329 ppbv
RT: 2.832 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

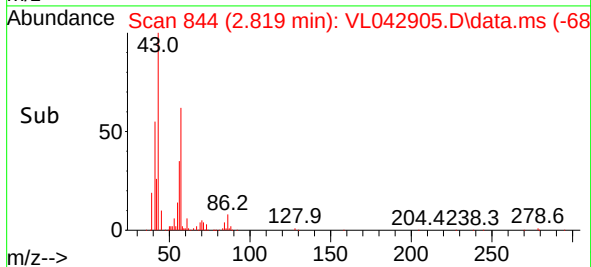
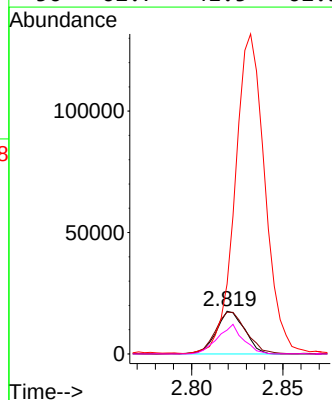
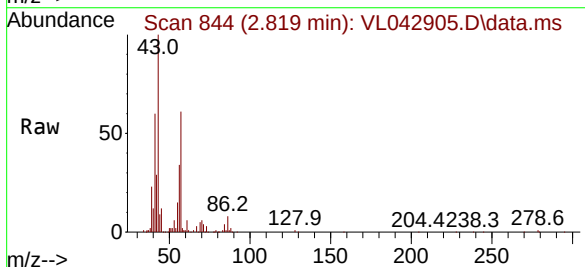
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

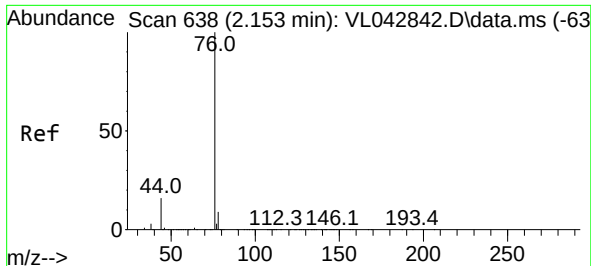
Tgt Ion: 43	Resp: 150520
Ion Ratio	Lower Upper
43 100	
45 12.7	8.1 12.1#
61 11.7	7.4 11.2#
70 9.2	7.3 10.9



#26
Hexane
Concen: 0.912 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 57	Resp: 19030
Ion Ratio	Lower Upper
57 100	
41 110.0	68.6 103.0#
43 793.6	168.5 252.7#
56 62.7	41.5 62.3#





#27

Carbon Disulfide

Concen: 0.053 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

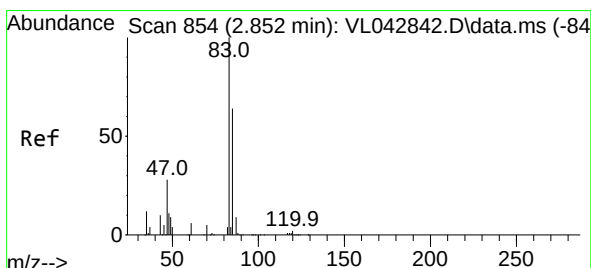
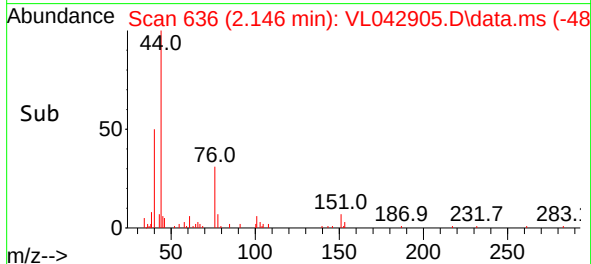
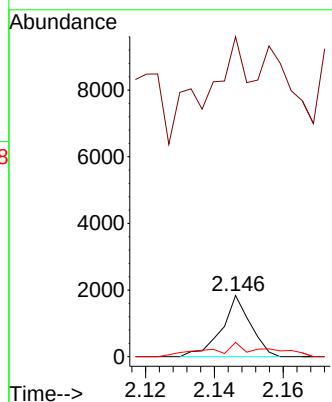
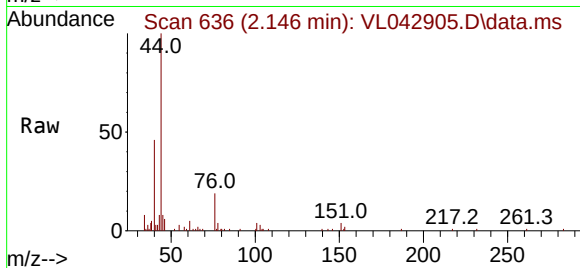
Tgt Ion: 76 Resp: 1070

Ion Ratio Lower Upper

76 100

44 0.0 15.9 23.9#

78 42.5 9.5 14.3#



#29

Chloroform

Concen: 0.276 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.006 min

Lab File: VL042905.D

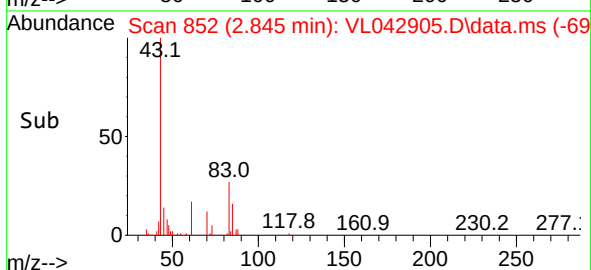
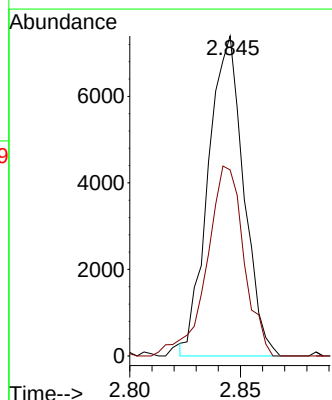
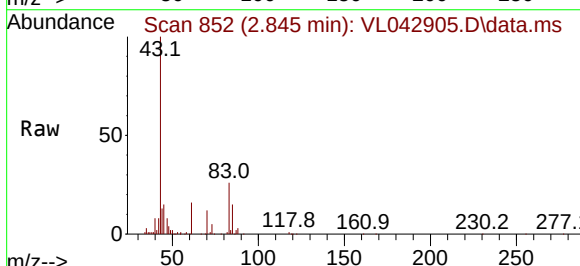
Acq: 08 Sep 2025 15:59

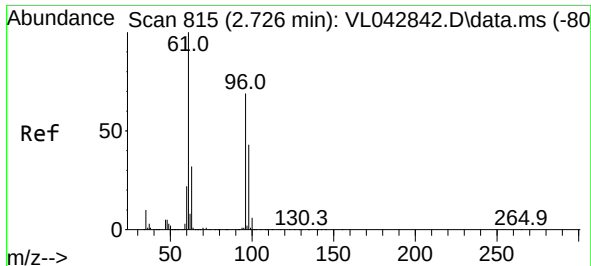
Tgt Ion: 83 Resp: 8213

Ion Ratio Lower Upper

83 100

85 58.1 51.1 76.7

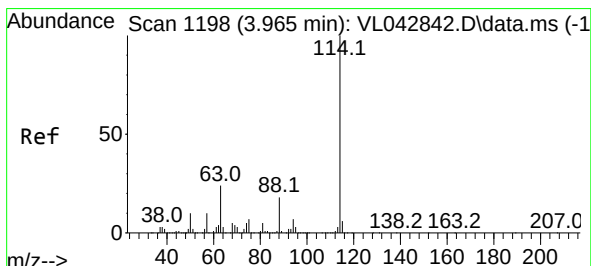
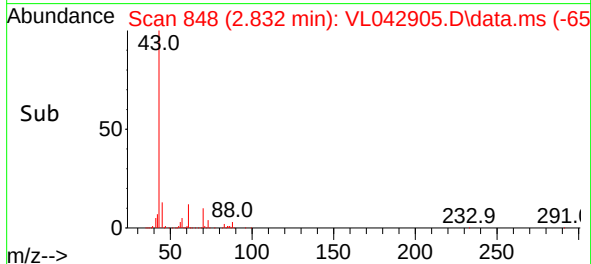
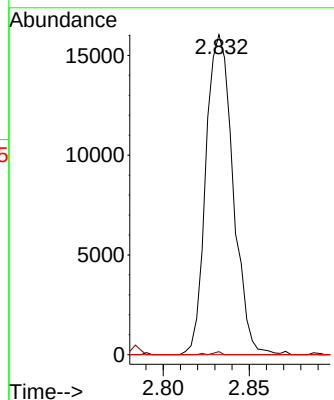
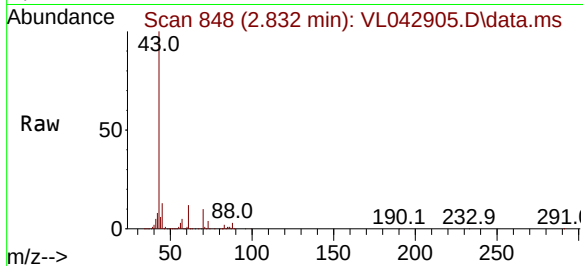




#31
 cis-1,2-Dichloroethene
 Concen: 0.843 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.120 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

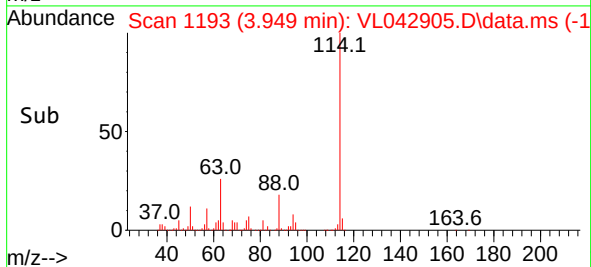
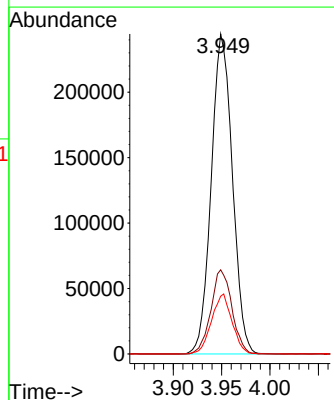
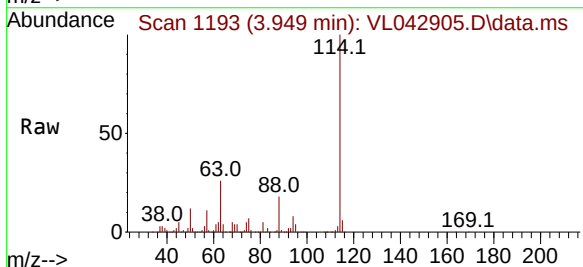
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

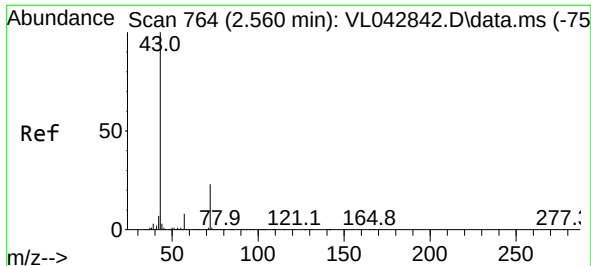
Tgt Ion: 61 Resp: 17577
 Ion Ratio Lower Upper
 61 100
 96 1.0 55.0 82.6#
 98 0.0 34.3 51.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 1193
 Delta R.T. 0.006 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

Tgt Ion: 114 Resp: 372044
 Ion Ratio Lower Upper
 114 100
 63 26.1 19.7 29.5
 88 18.1 14.4 21.6

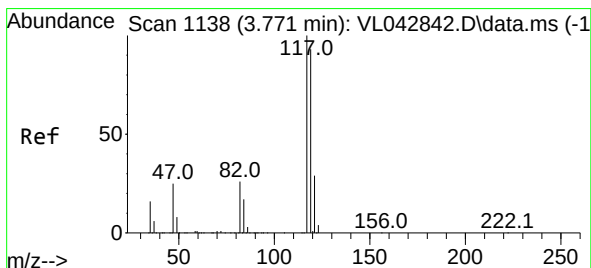
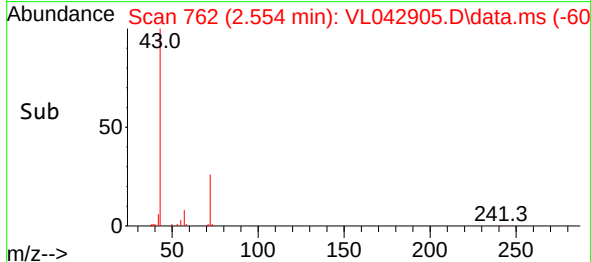
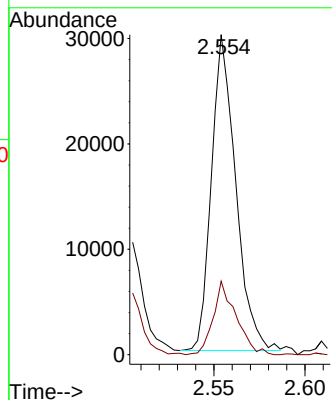
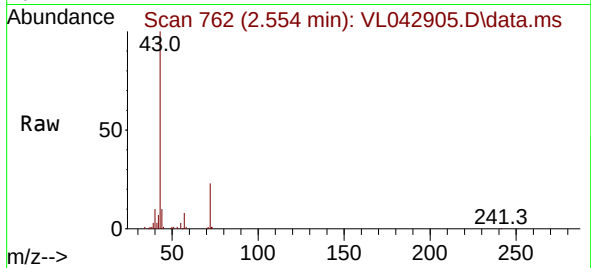




#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

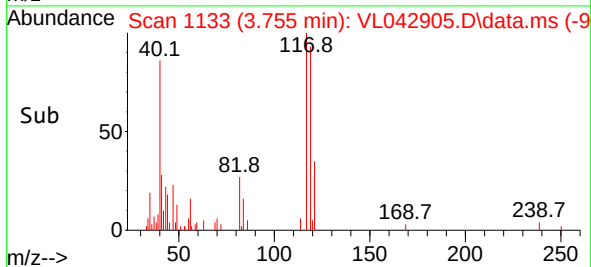
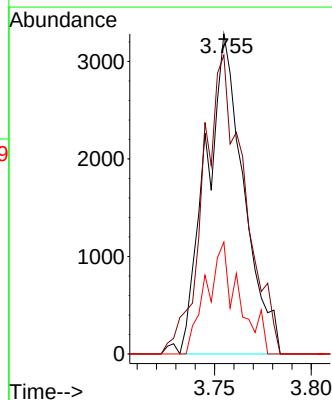
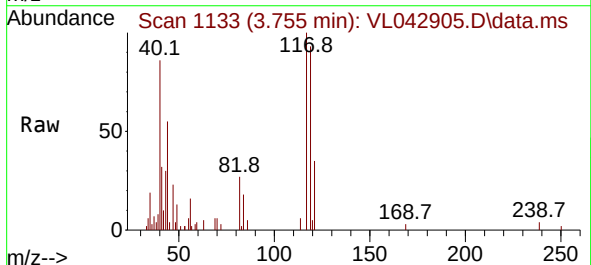
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

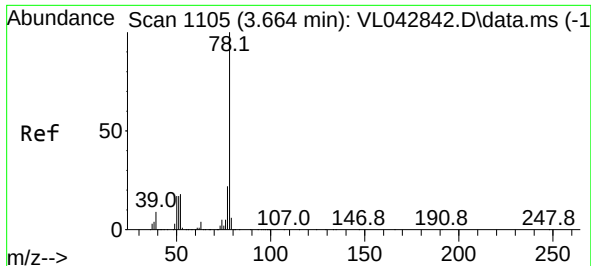
Tgt Ion: 43 Resp: 27696
Ion Ratio Lower Upper
43 100
72 21.9 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.174 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 117 Resp: 4459
Ion Ratio Lower Upper
117 100
119 93.4 74.7 112.1
121 34.9 23.2 34.8#

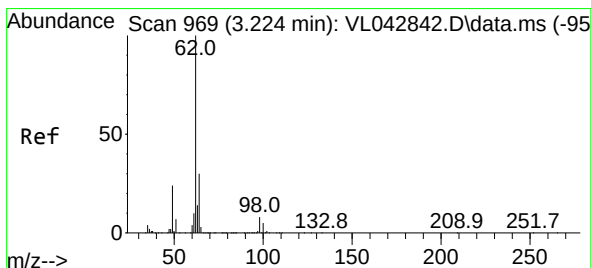
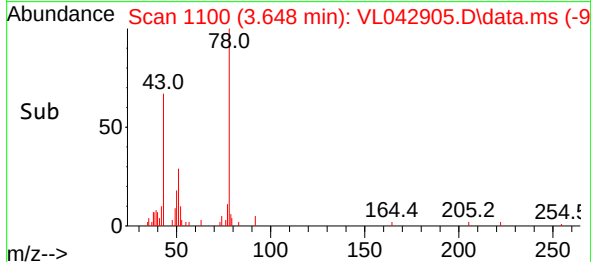
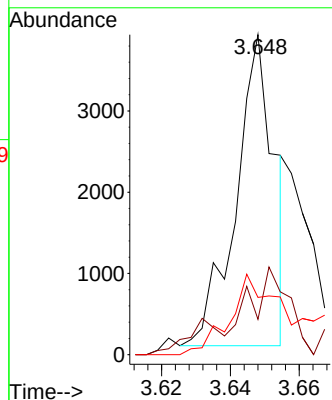
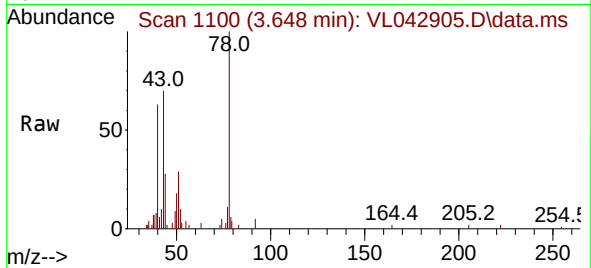




#36
Benzene
Concen: 0.083 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

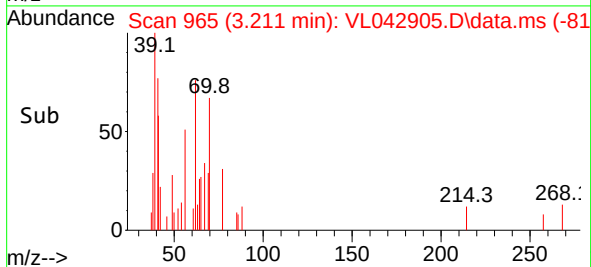
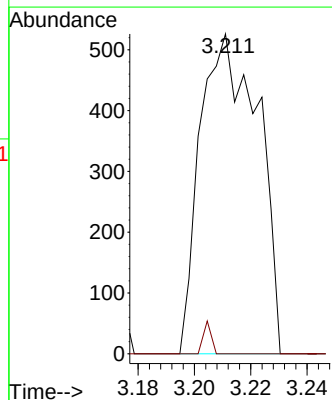
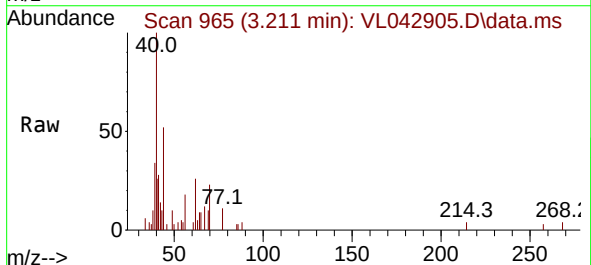
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

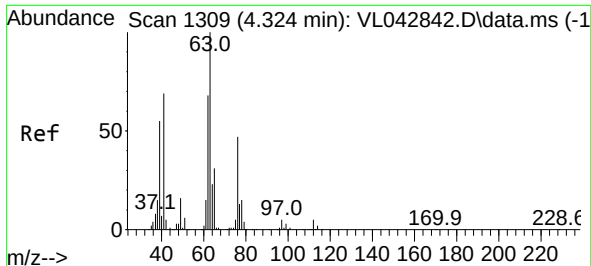
Tgt Ion: 78 Resp: 2959
Ion Ratio Lower Upper
78 100
77 6.1 17.7 26.5#
50 17.3 13.9 20.9



#37
1,2-Dichloroethane
Concen: 0.040 ppbv
RT: 3.211 min Scan# 965
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 62 Resp: 750
Ion Ratio Lower Upper
62 100
98 0.0 5.9 8.9#





#39

1,2-Dichloropropane

Concen: 7.466 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

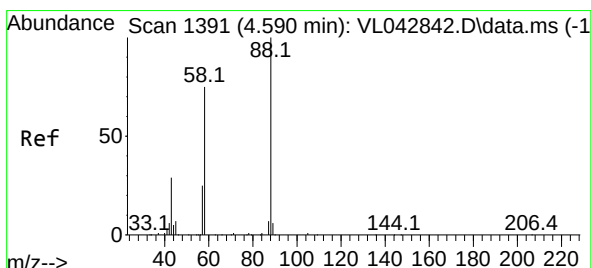
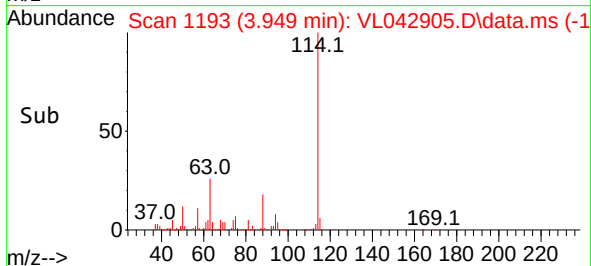
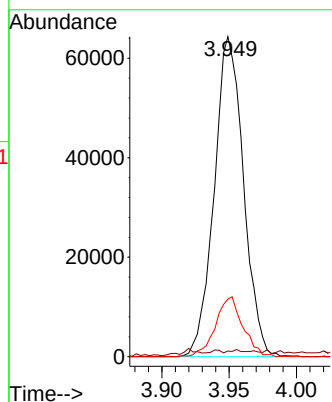
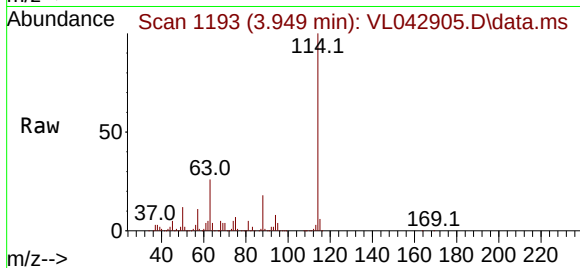
Tgt Ion: 63 Resp: 97144

Ion Ratio Lower Upper

63 100

41 1.0 55.0 82.4#

62 17.9 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.180 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.029 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Tgt Ion: 88 Resp: 1112

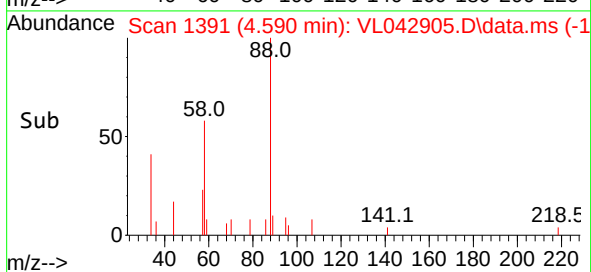
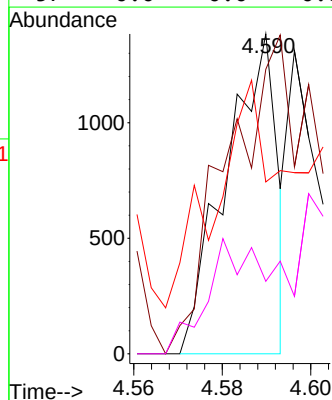
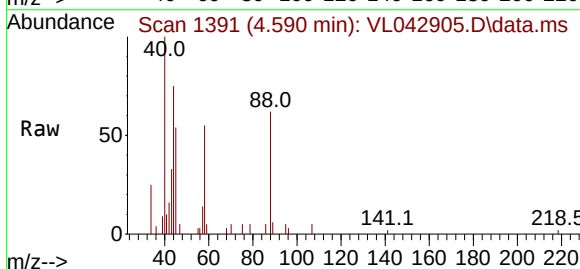
Ion Ratio Lower Upper

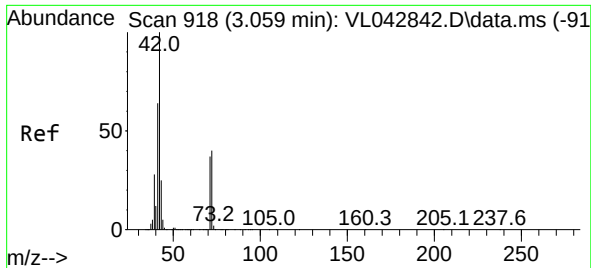
88 100

58 0.0 53.8 80.6#

43 63.5 22.8 34.2#

57 0.0 0.0 0.0

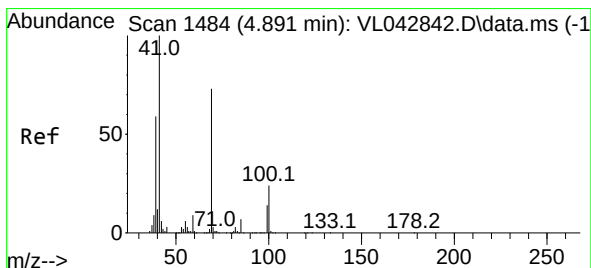
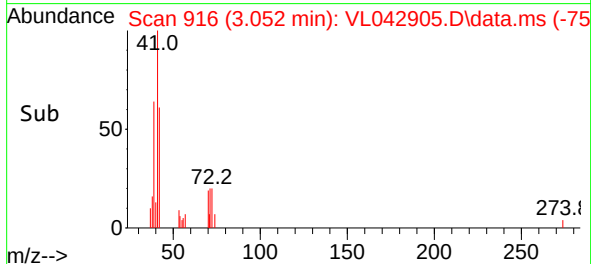
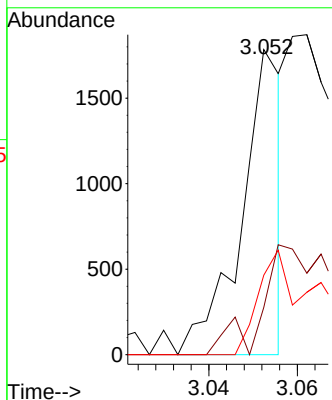
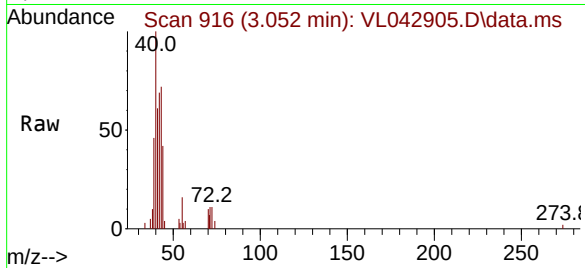




#41
Tetrahydrofuran
Concen: 0.081 ppbv
RT: 3.052 min Scan# 918
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

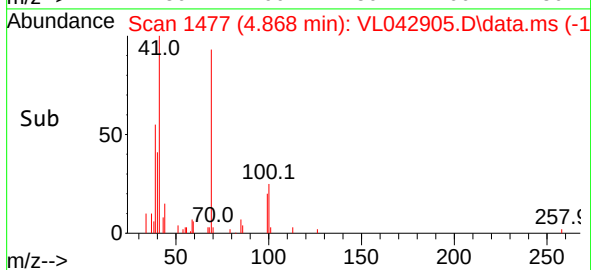
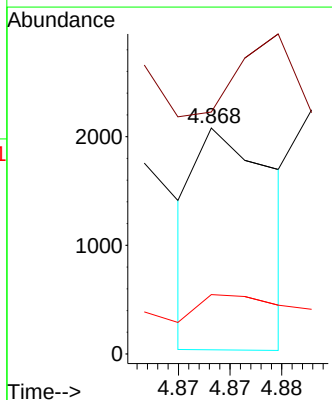
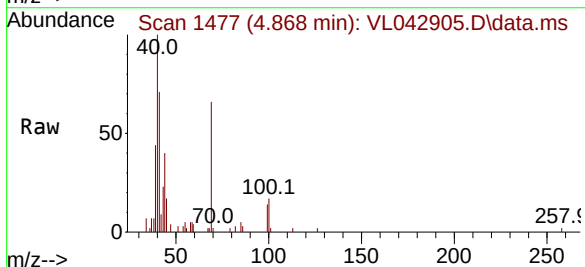
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

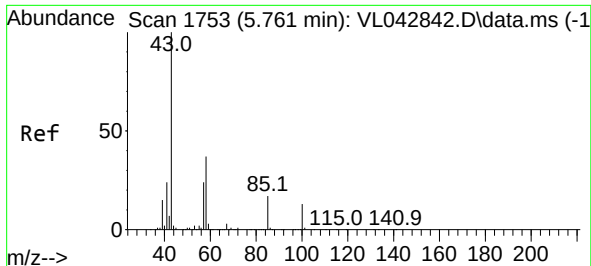
Tgt Ion: 42 Resp: 1132
Ion Ratio Lower Upper
42 100
72 68.4 32.6 48.8#
71 51.5 30.0 45.0#



#43
Methyl Methacrylate
Concen: 0.072 ppbv
RT: 4.868 min Scan# 1477
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 69 Resp: 1057
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0#
100 118.4 30.2 45.4#





#50

4-Methyl-2-Pentanone

Concen: 2.005 ppbv

RT: 5.745 min Scan# 1748

Delta R.T. 0.016 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

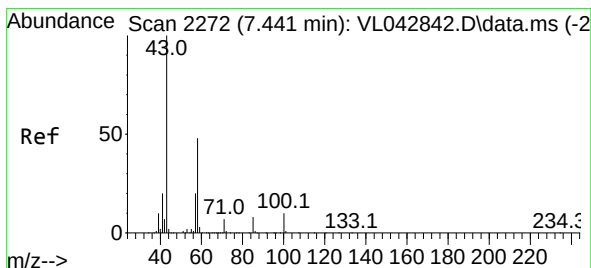
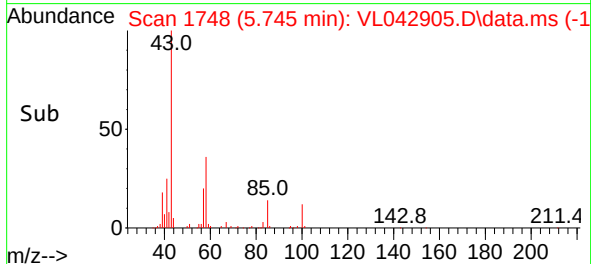
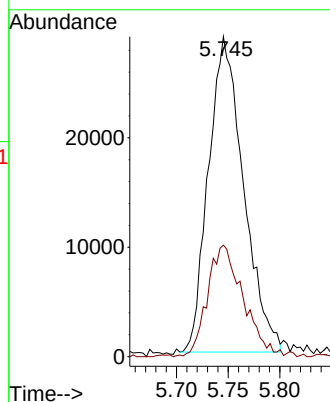
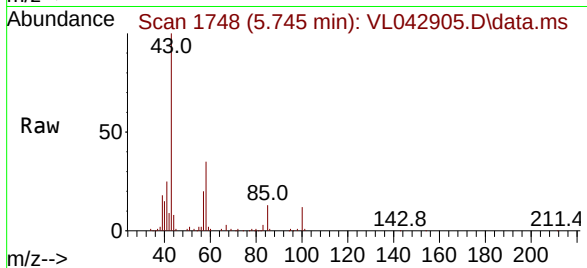
IA-2DUP

Tgt Ion: 43 Resp: 68077

Ion Ratio Lower Upper

43 100

58 36.5 29.8 44.8



#51

2-Hexanone

Concen: 0.156 ppbv

RT: 7.438 min Scan# 2271

Delta R.T. 0.019 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

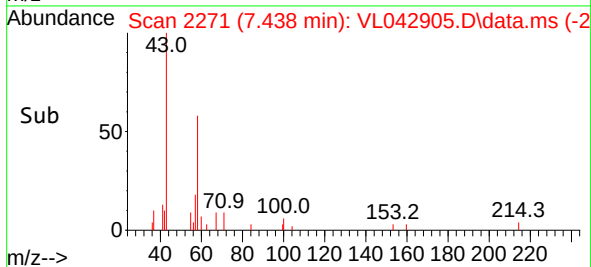
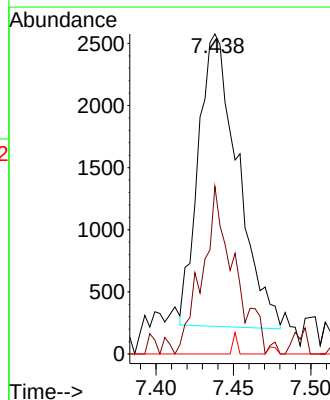
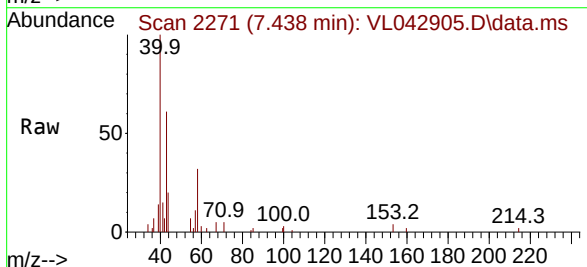
Tgt Ion: 43 Resp: 4166

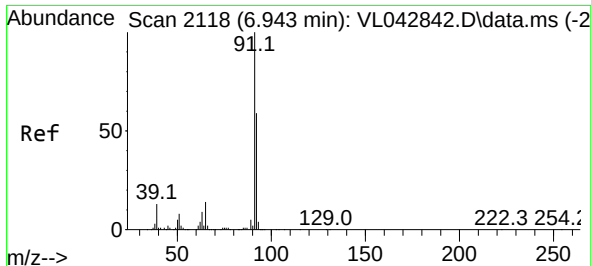
Ion Ratio Lower Upper

43 100

58 49.4 41.0 61.6

98 0.0 0.1 0.1#

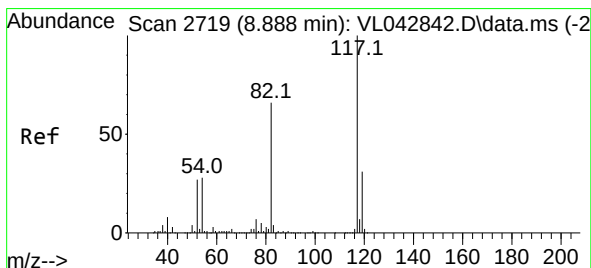
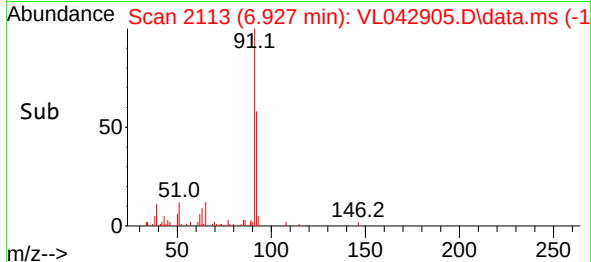
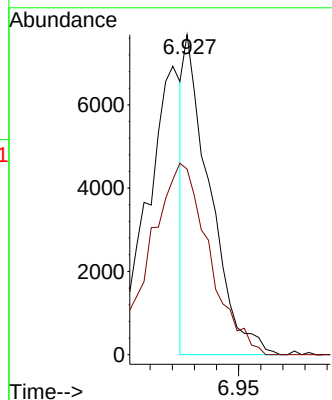
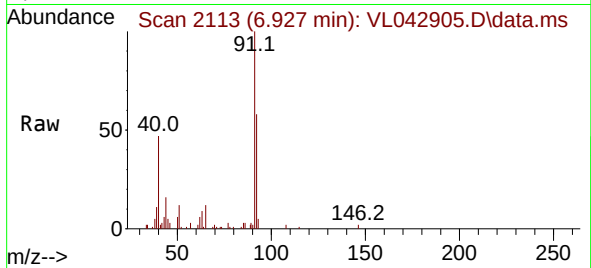




#53
Toluene
Concen: 0.147 ppbv
RT: 6.927 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

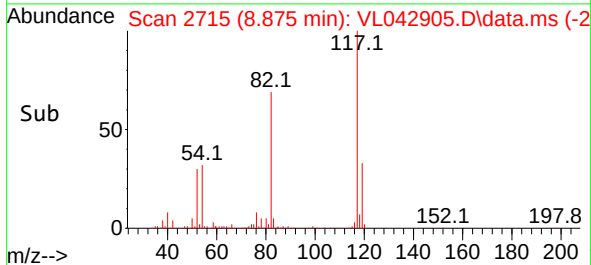
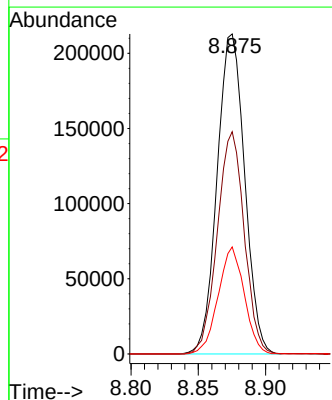
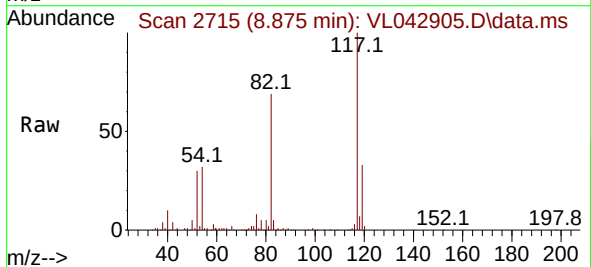
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

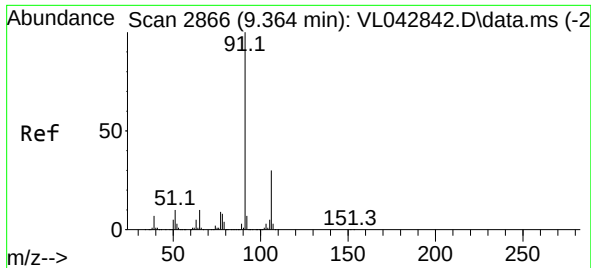
Tgt Ion: 91 Resp: 6220
Ion Ratio Lower Upper
91 100
92 139.5 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 117 Resp: 303028
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.7 25.9 38.9

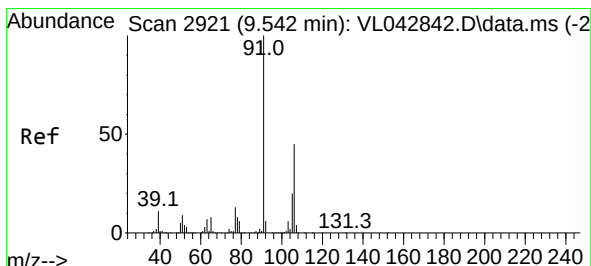
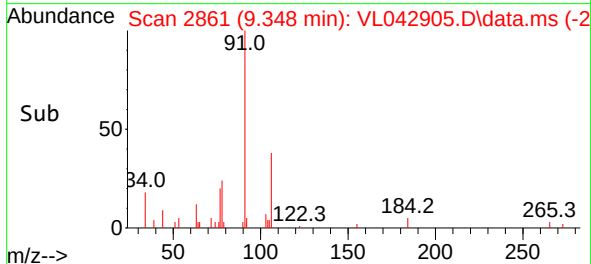
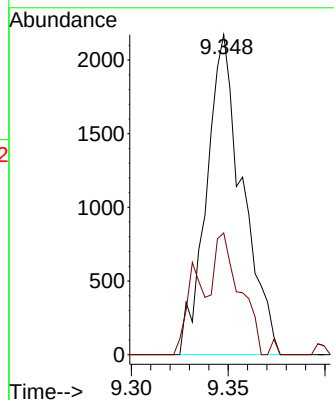
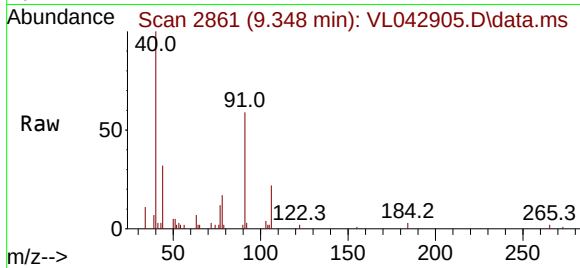




#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 9.348 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

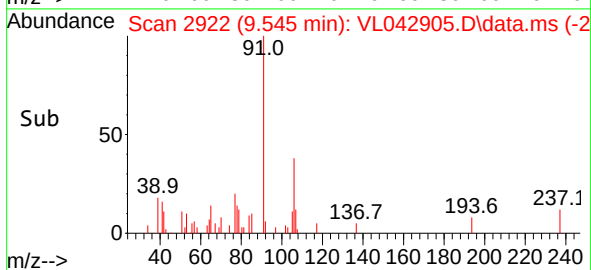
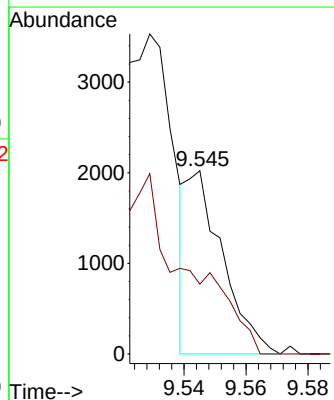
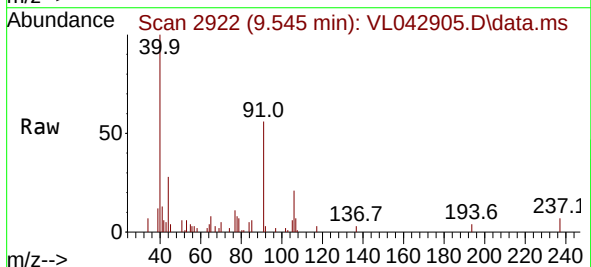
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

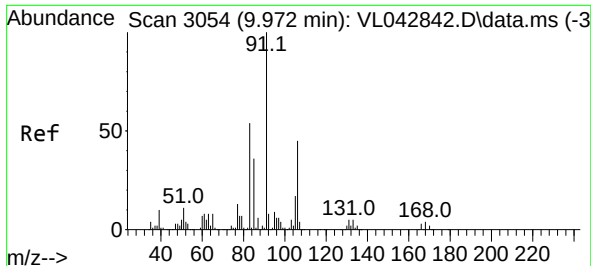
Tgt Ion: 91 Resp: 2812
Ion Ratio Lower Upper
91 100
106 38.1 23.9 35.9#



#59
m/p-Xylene
Concen: 0.039 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 1627
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

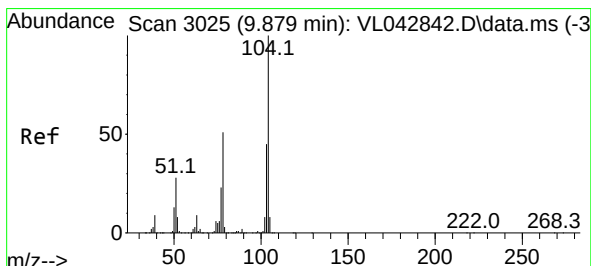
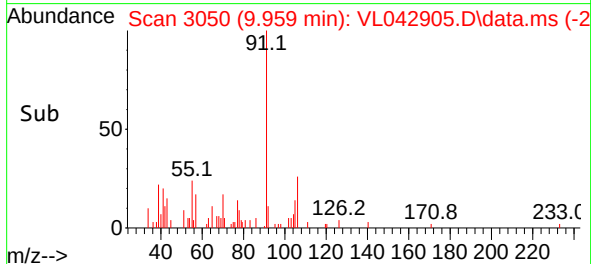
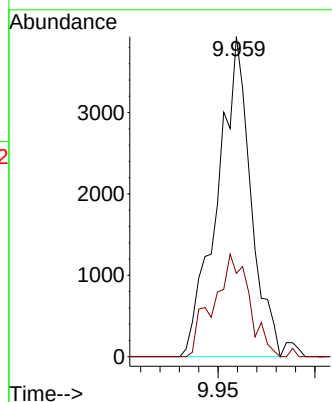
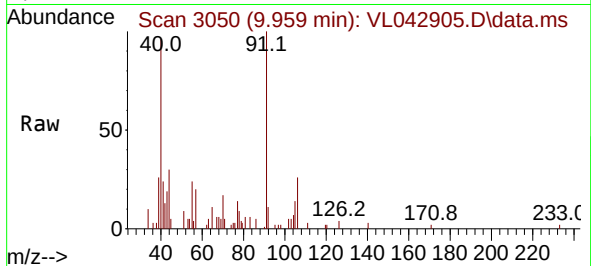




#60
o-Xylene
Concen: 0.112 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

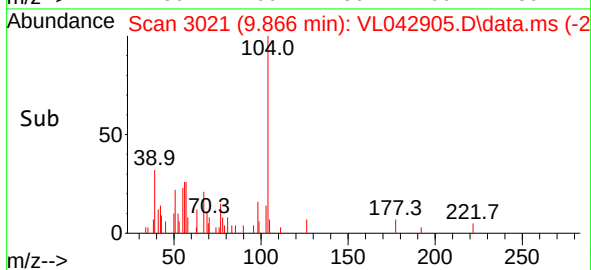
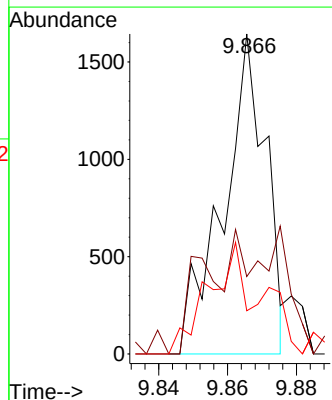
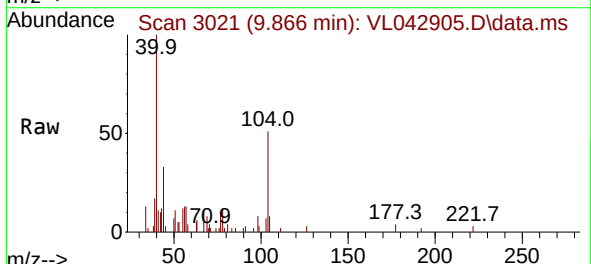
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

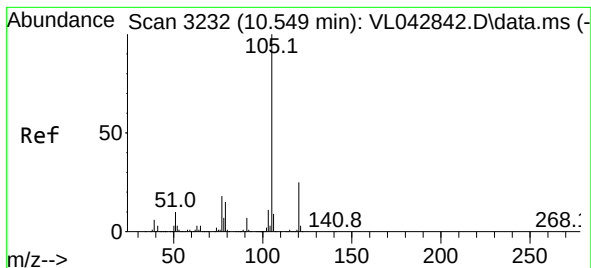
Tgt Ion: 91 Resp: 4723
Ion Ratio Lower Upper
91 100
106 35.0 21.8 65.4



#61
Styrene
Concen: 0.071 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 104 Resp: 1409
Ion Ratio Lower Upper
104 100
78 0.0 40.6 61.0#
103 44.3 37.7 56.5





#62

Isopropylbenzene

Concen: 0.032 ppbv

RT: 10.529 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

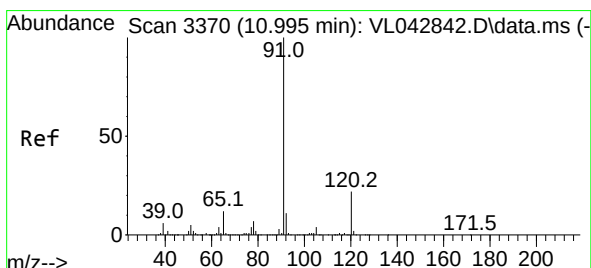
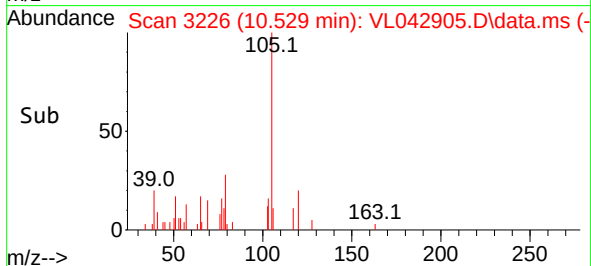
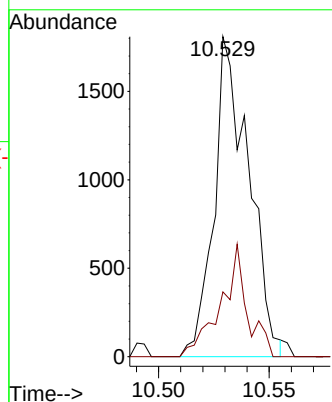
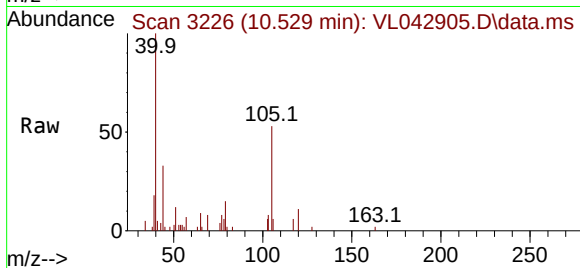
IA-2DUP

Tgt Ion:105 Resp: 1966

Ion Ratio Lower Upper

105 100

120 26.9 20.6 30.8



#64

n-propylbenzene

Concen: 0.037 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.010 min

Lab File: VL042905.D

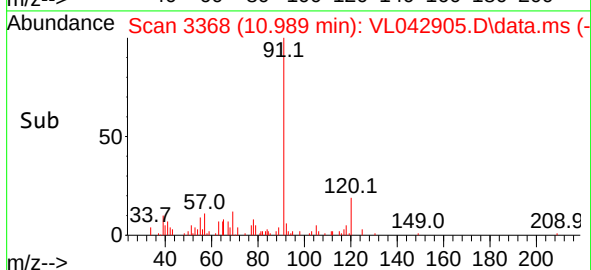
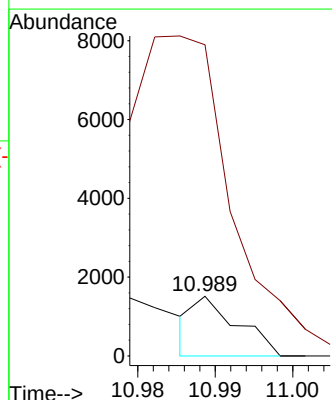
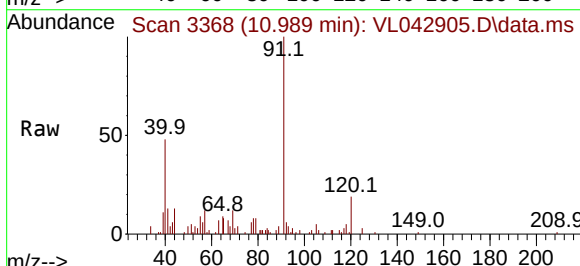
Acq: 08 Sep 2025 15:59

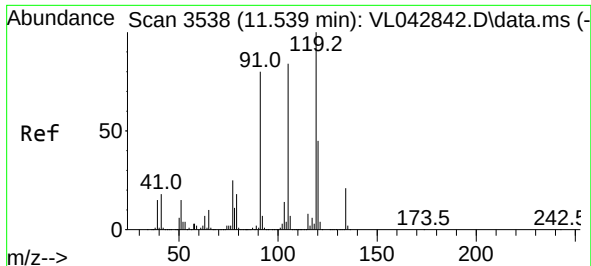
Tgt Ion:120 Resp: 589

Ion Ratio Lower Upper

120 100

91 1611.9 375.8 563.6#

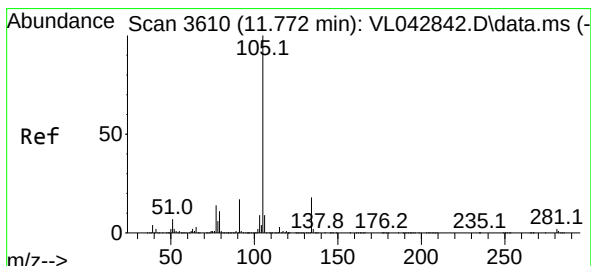
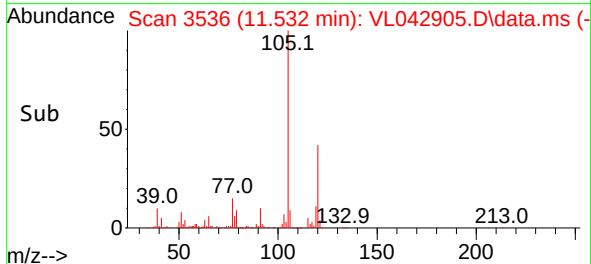
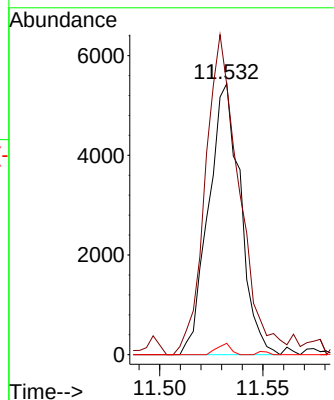
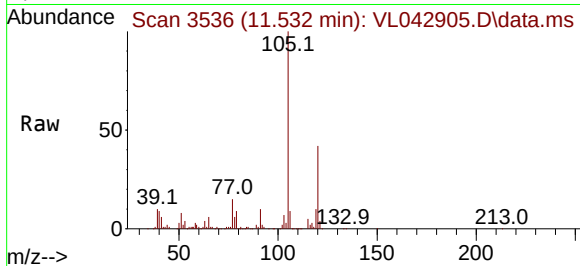




#65
tert-Butylbenzene
Concen: 0.108 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

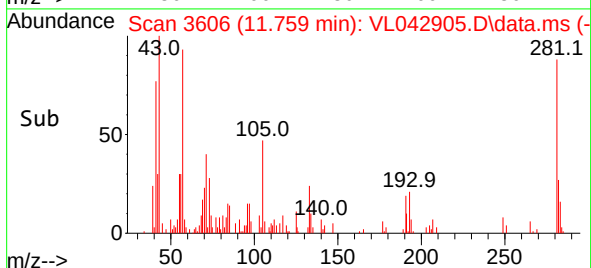
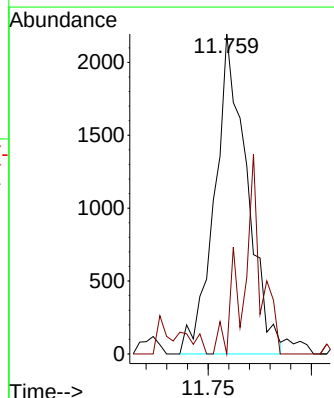
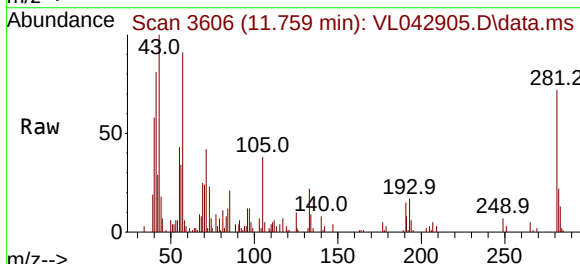
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

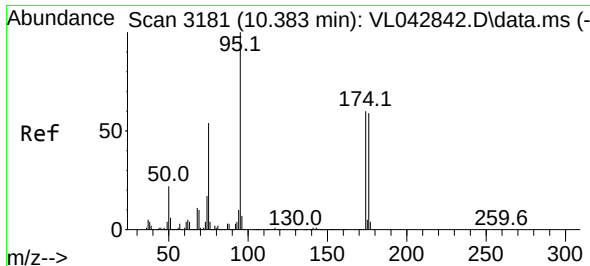
Tgt Ion:119 Resp: 5846
Ion Ratio Lower Upper
119 100
91 129.6 63.9 95.9#
134 2.2 17.0 25.4#



#67
sec-Butylbenzene
Concen: 0.031 ppbv
RT: 11.759 min Scan# 3606
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 2374
Ion Ratio Lower Upper
105 100
134 42.0 14.9 22.3#

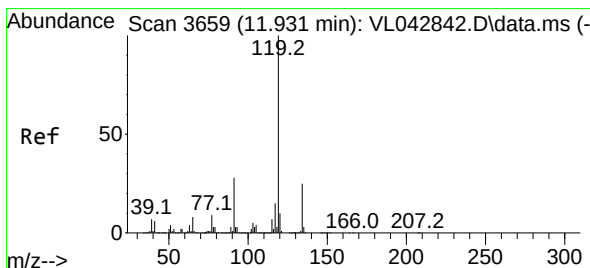
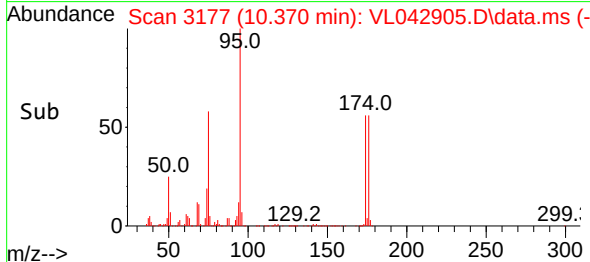
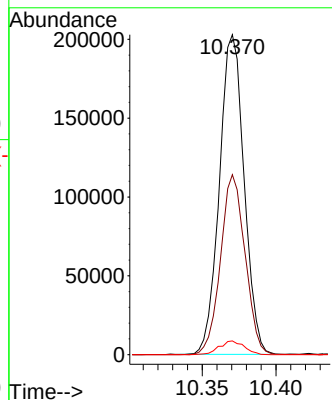
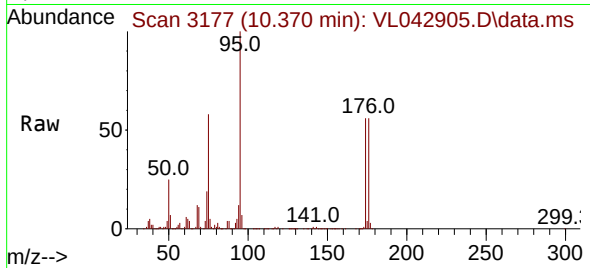




#68
1-Bromo-4-Fluorobenzene
Concen: 10.380 ppbv
RT: 10.370 min Scan# 3181
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

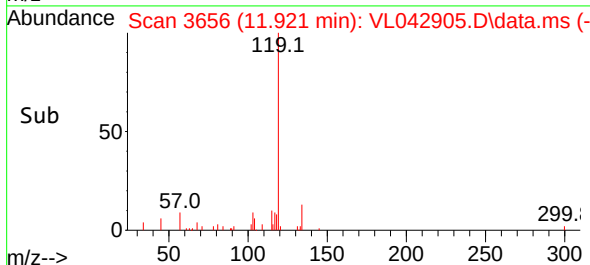
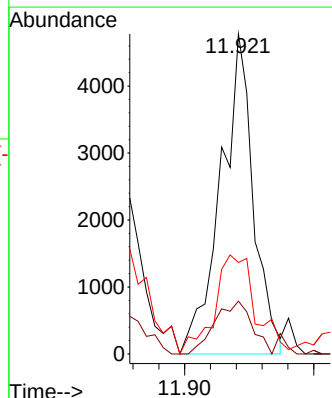
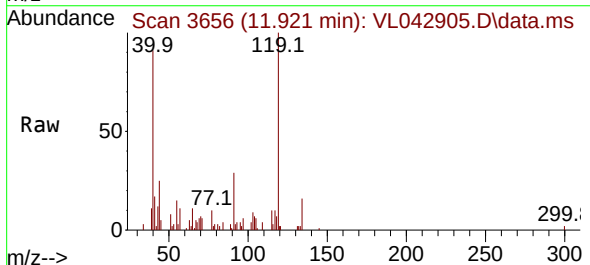
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

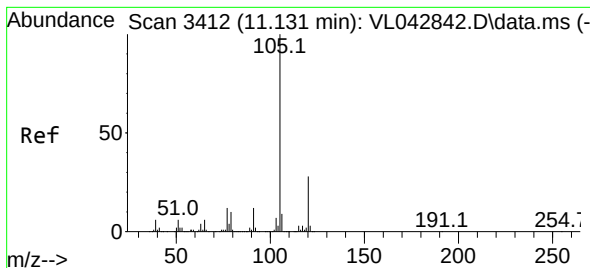
Tgt Ion: 95 Resp: 235889
Ion Ratio Lower Upper
95 100
174 56.1 48.4 72.6
175 4.4 3.8 5.8



#69
p-Isopropyltoluene
Concen: 0.064 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 119 Resp: 4177
Ion Ratio Lower Upper
119 100
134 21.0 20.6 30.8
91 43.0 22.6 34.0#





#72

4-Ethyltoluene

Concen: 0.248 ppbv

RT: 11.121 min Scan# 3412

Delta R.T. 0.003 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_1

ClientSampleId :

IA-2DUP

Tgt Ion:105 Resp: 12693

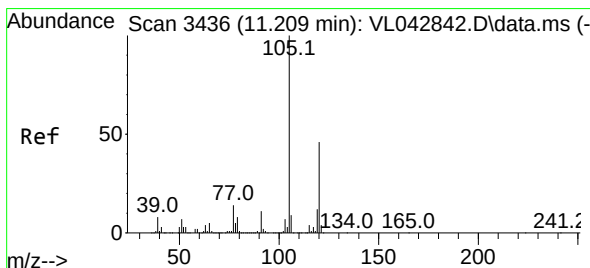
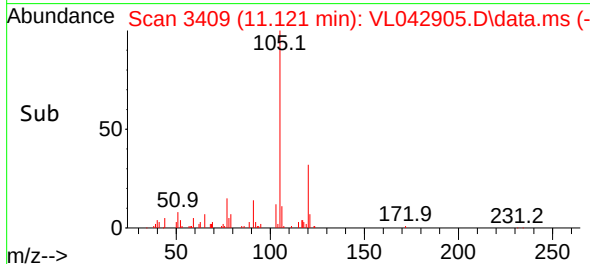
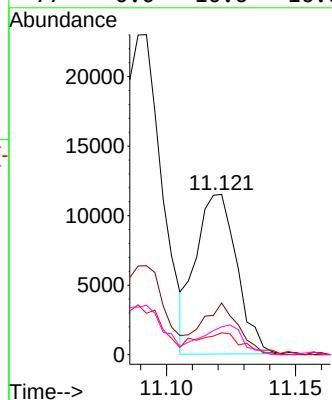
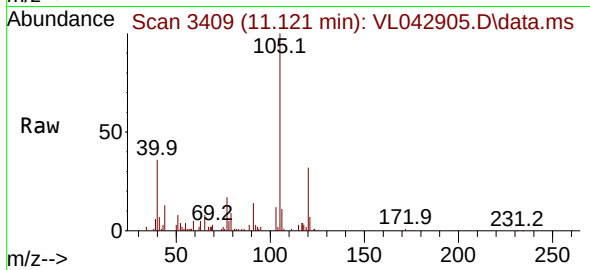
Ion Ratio Lower Upper

105 100

120 0.0 23.4 35.2#

91 0.0 9.8 14.6#

77 0.0 10.6 16.0#



#73

1,3,5-Trimethylbenzene

Concen: 0.324 ppbv

RT: 11.196 min Scan# 3432

Delta R.T. -0.000 min

Lab File: VL042905.D

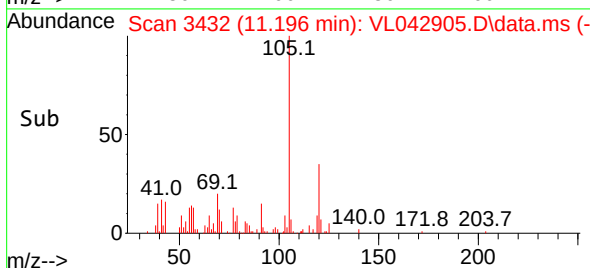
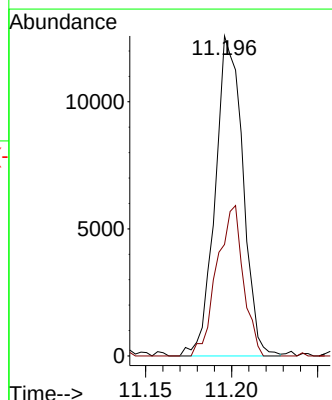
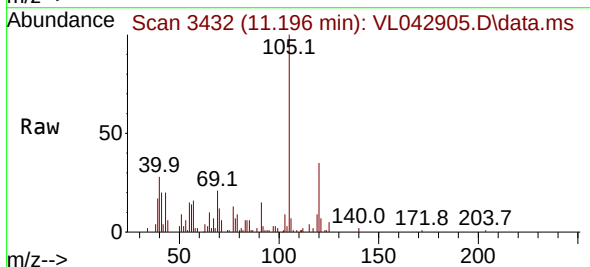
Acq: 08 Sep 2025 15:59

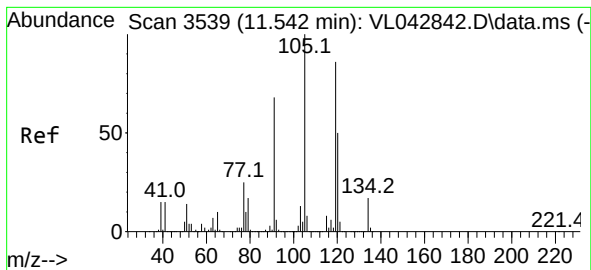
Tgt Ion:105 Resp: 14080

Ion Ratio Lower Upper

105 100

120 34.8 36.6 54.8#





#74

1,2,4-Trimethylbenzene

Concen: 1.124 ppbv

RT: 11.532 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042905.D

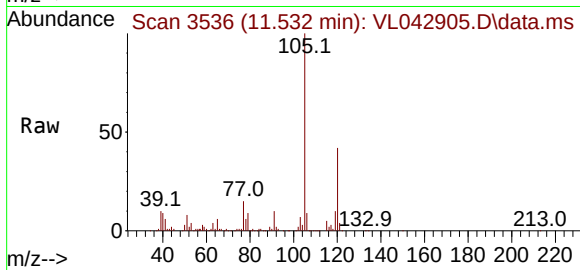
Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP



Tgt Ion:105 Resp: 53636

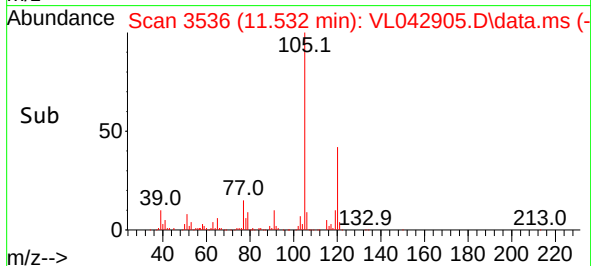
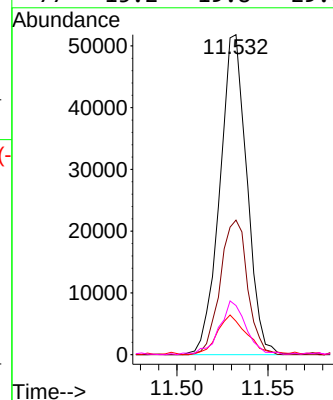
Ion Ratio Lower Upper

105 100

120 42.0 39.8 59.6

91 10.5 54.2 81.4#

77 15.2 19.8 29.6#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042906.D
 Acq On : 08 Sep 2025 16:33
 Operator : SY/MD
 Sample : Q3038-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

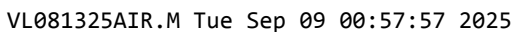
Quant Time: Sep 09 00:57:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

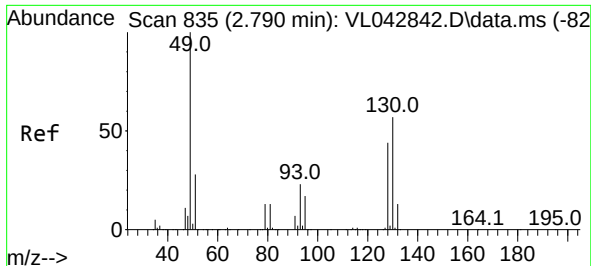
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.780	49	142770	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	358223	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	300604	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	220147	9.765	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	2637	0.126	ppbv	100
3) Chlorodifluoromethane	1.470	51	152267	6.584	ppbv	94
4) Chloromethane	1.528	50	1401	0.166	ppbv	88
7) Chloroethane	1.489	64	6952	2.141	ppbv #	42
9) Propene	1.615	41	3018	0.302	ppbv	91
10) Heptane	4.962	43	1067	0.040	ppbv #	26
11) Trichlorofluoromethane	1.874	101	1862	0.090	ppbv	85
13) Ethanol	1.719	45	21534	23.579	ppbv	93
15) Acetone	1.832	43	117769	6.236	ppbv	93
16) 1,3-Butadiene	1.596	39	10410	1.216	ppbv #	28
17) tert-Butyl alcohol	1.884	59	4803	0.214	ppbv	99
19) Isopropyl Alcohol	1.884	45	124685	11.054	ppbv #	37
20) Methylene Chloride	2.055	84	7932	1.003	ppbv	86
21) Allyl Chloride	2.046	41	959	0.072	ppbv #	64
23) Vinyl Acetate	2.470	43	6886	0.265	ppbv #	32
25) Ethyl Acetate	2.819	43	16237	0.355	ppbv #	86
26) Hexane	2.819	57	18740	0.888	ppbv #	46
27) Carbon Disulfide	2.143	76	1718	0.084	ppbv #	1
29) Chloroform	2.845	83	3811	0.127	ppbv	91
34) 2-Butanone	2.554	43	83905	3.469	ppbv	99
36) Benzene	3.651	78	6417	0.187	ppbv #	74
38) Trichloroethene	4.535	130	659	0.042	ppbv #	63
39) 1,2-Dichloropropane	3.949	63	94790	7.566	ppbv #	25
44) 2,2,4-Trimethylpentane	4.632	57	4054	0.070	ppbv #	22
51) 2-Hexanone	7.435	43	1883	0.073	ppbv #	37
52) Tetrachloroethene	8.218	164	145329	11.711	ppbv	96
53) Toluene	6.923	91	8585	0.211	ppbv	97
61) Styrene	9.859	104	907	0.046	ppbv #	80
71) 2-Chlorotoluene	10.853	91	154255	3.250	ppbv #	45

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

Quant Time: Sep 09 00:57:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

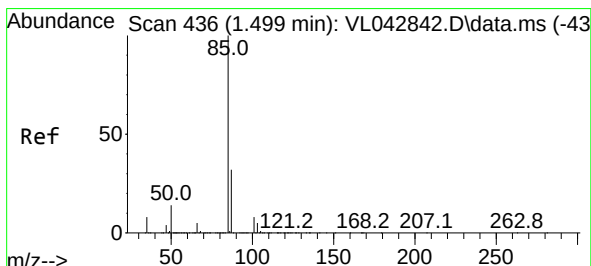
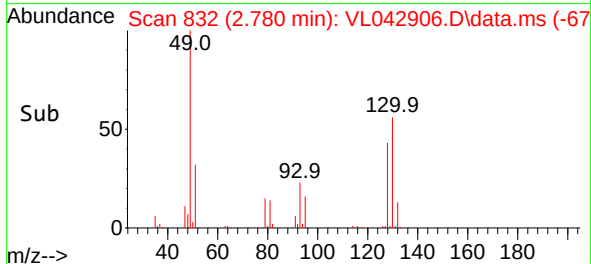
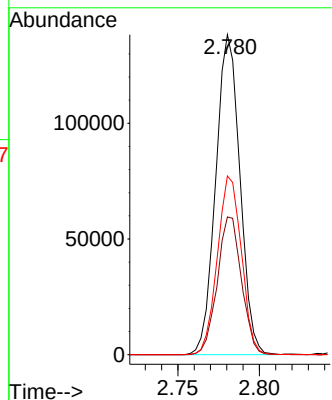
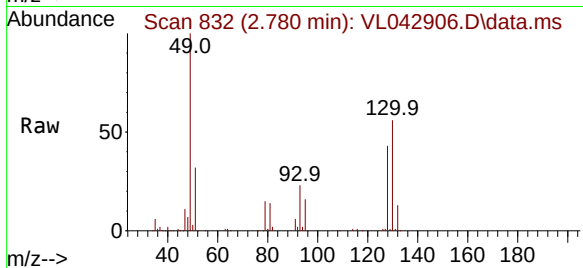




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

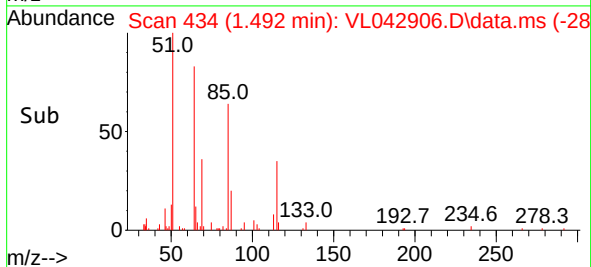
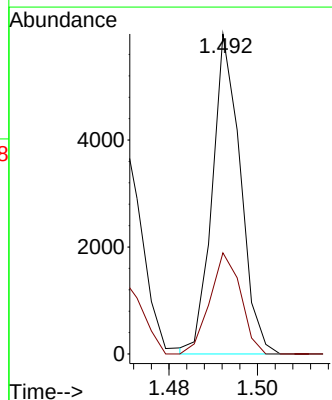
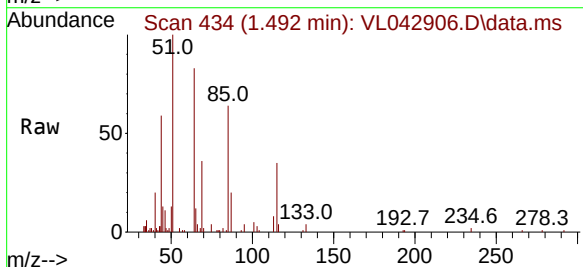
Instrument :
MSVOA_L
ClientSampleId :
SV-1

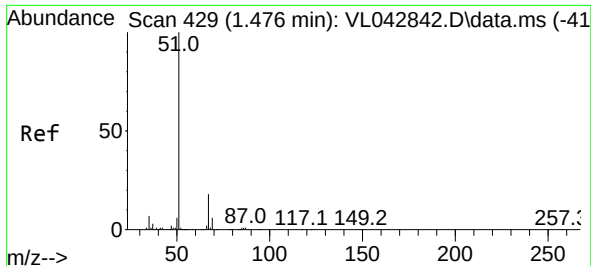
Tgt Ion: 49 Resp: 142770
Ion Ratio Lower Upper
49 100
128 43.0 23.7 71.1
130 55.5 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.126 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 85 Resp: 2637
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9

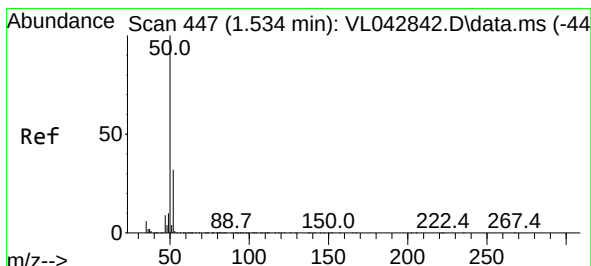
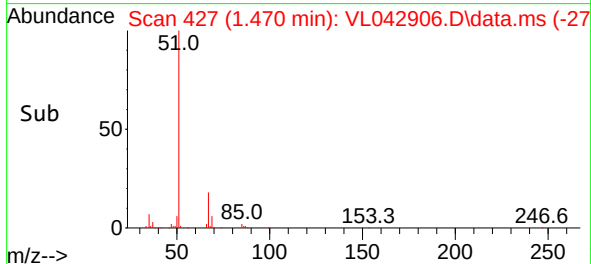
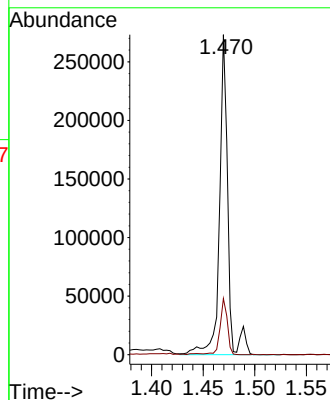
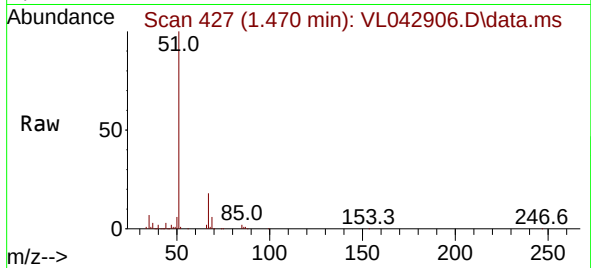




#3
Chlorodifluoromethane
Concen: 6.584 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

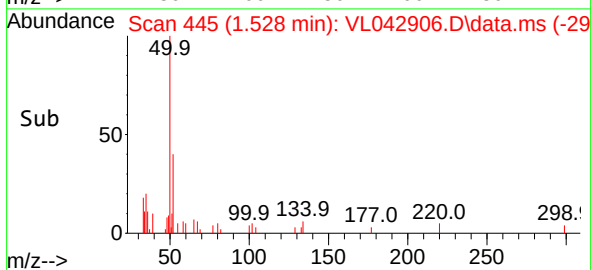
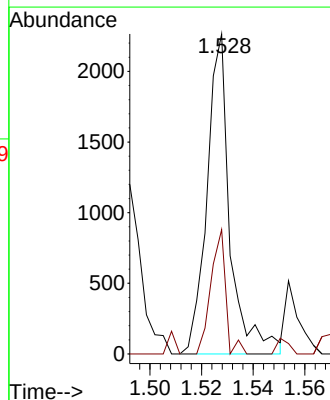
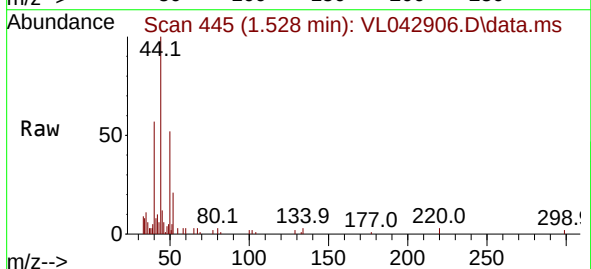
Instrument :
MSVOA_L
ClientSampleId :
SV-1

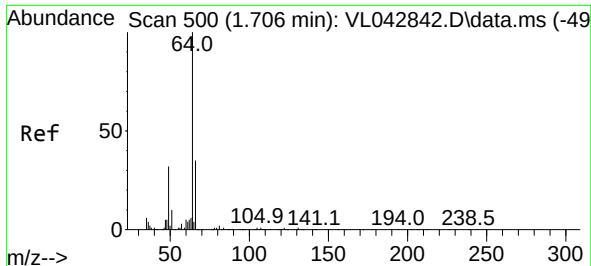
Tgt Ion: 51 Resp: 152267
Ion Ratio Lower Upper
51 100
67 15.8 14.9 22.3



#4
Chloromethane
Concen: 0.166 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 50 Resp: 1401
Ion Ratio Lower Upper
50 100
52 38.9 25.9 38.9

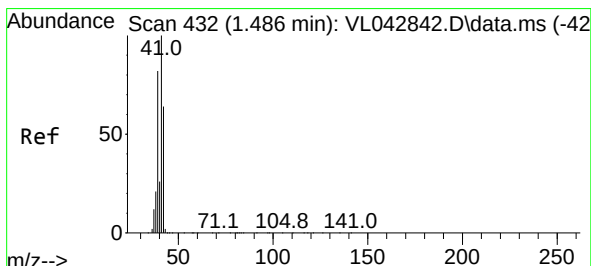
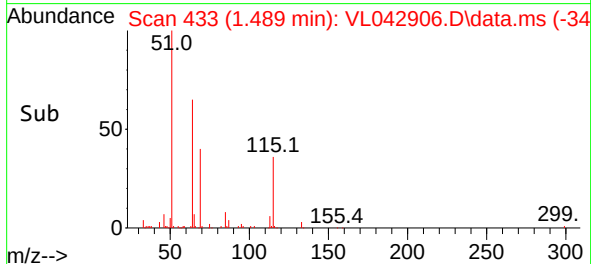
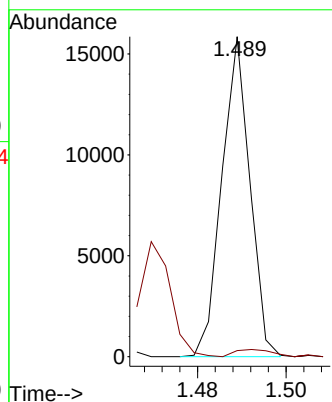
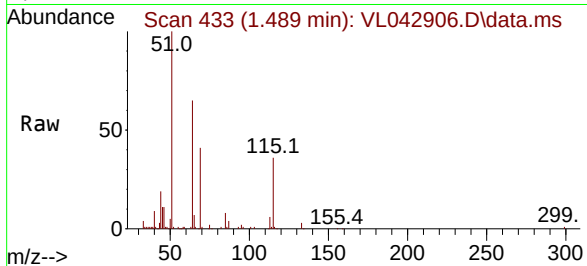




#7
Chloroethane
Concen: 2.141 ppbv
RT: 1.489 min Scan# 41
Delta R.T. -0.211 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

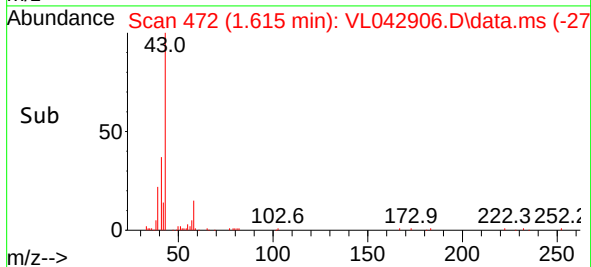
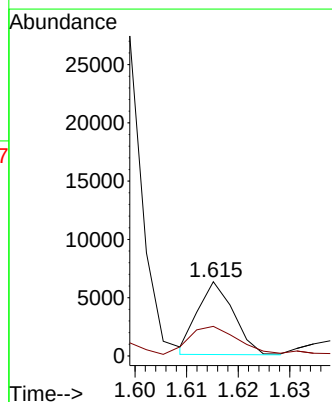
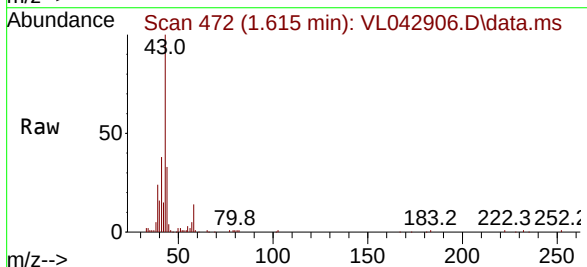
Instrument :
MSVOA_L
ClientSampleId :
SV-1

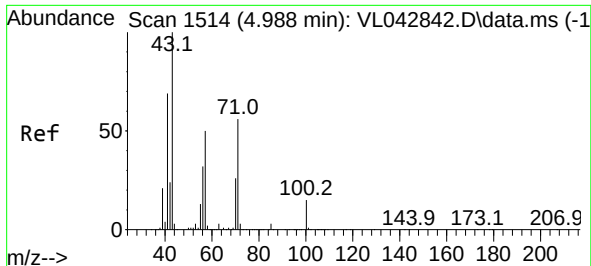
Tgt Ion: 64 Resp: 6952
Ion Ratio Lower Upper
64 100
66 1.9 28.6 42.8#



#9
Propene
Concen: 0.302 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.139 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 41 Resp: 3018
Ion Ratio Lower Upper
41 100
42 73.7 53.0 79.4

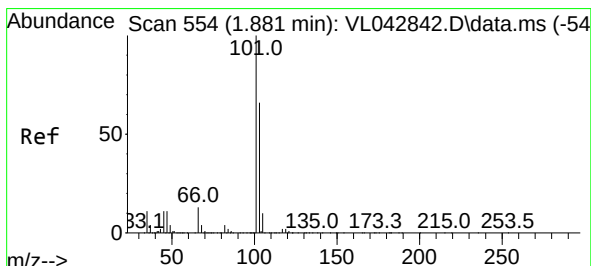
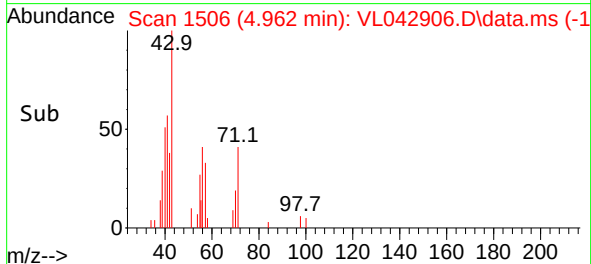
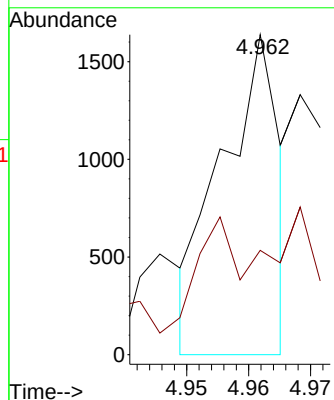
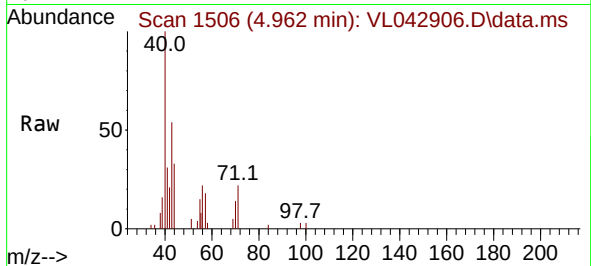




#10
Heptane
Concen: 0.040 ppbv
RT: 4.962 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

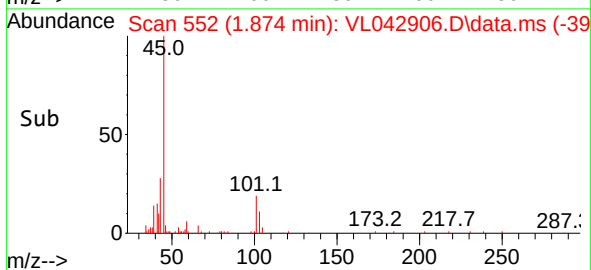
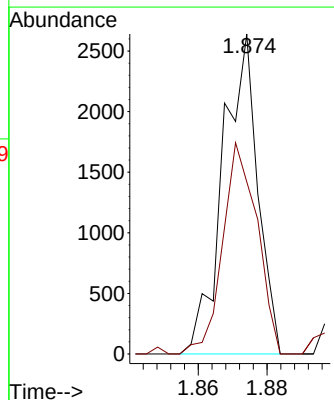
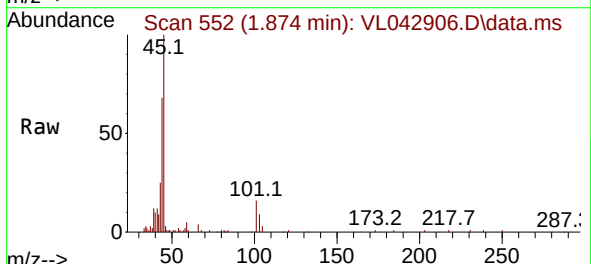
Instrument :
MSVOA_L
ClientSampleId :
SV-1

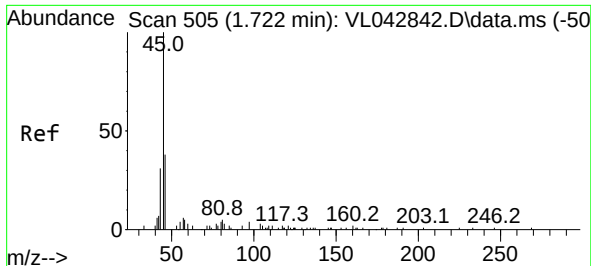
Tgt Ion: 43 Resp: 1067
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0#



#11
Trichlorofluoromethane
Concen: 0.090 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion:101 Resp: 1862
Ion Ratio Lower Upper
101 100
103 53.8 52.5 78.7

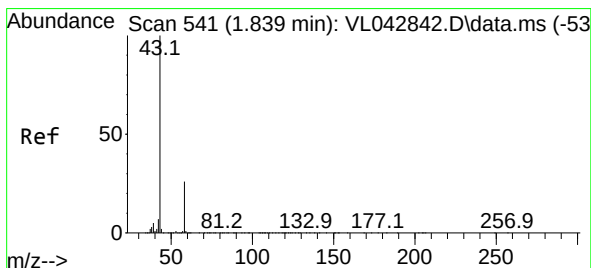
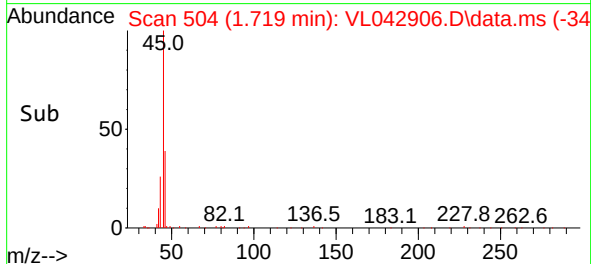
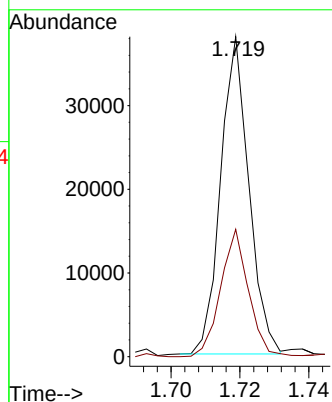
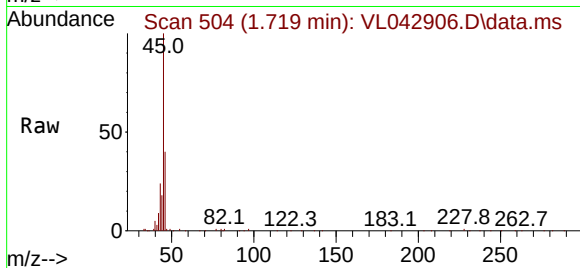




#13
 Ethanol
 Concen: 23.579 ppbv
 RT: 1.719 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

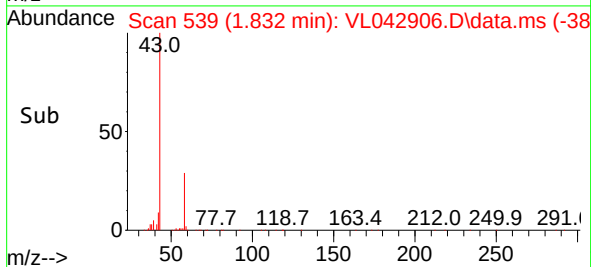
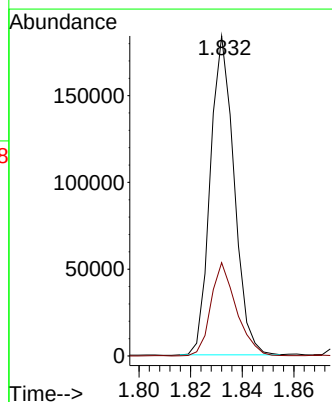
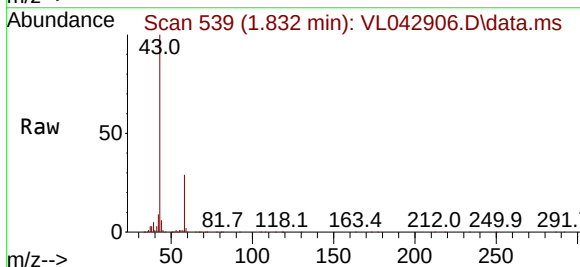
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

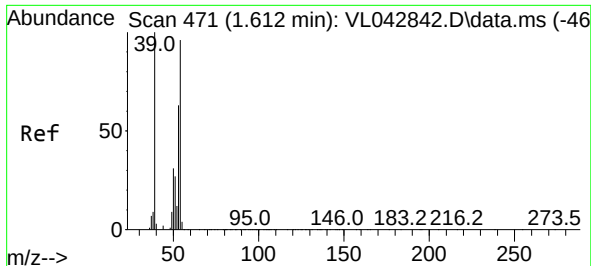
Tgt Ion: 45 Resp: 21534
 Ion Ratio Lower Upper
 45 100
 46 39.5 17.5 69.9



#15
 Acetone
 Concen: 6.236 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. 0.003 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 117769
 Ion Ratio Lower Upper
 43 100
 58 31.5 22.4 33.6

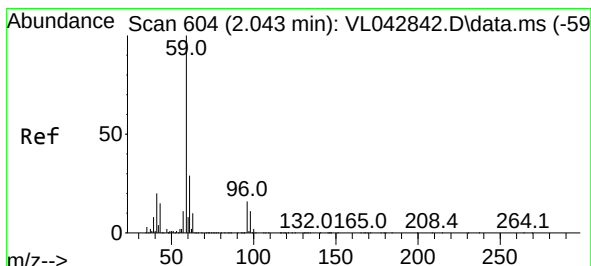
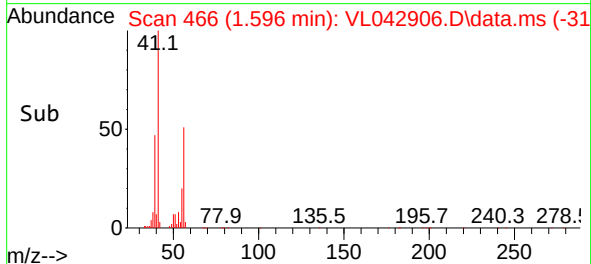
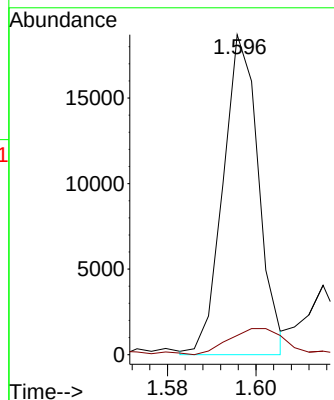
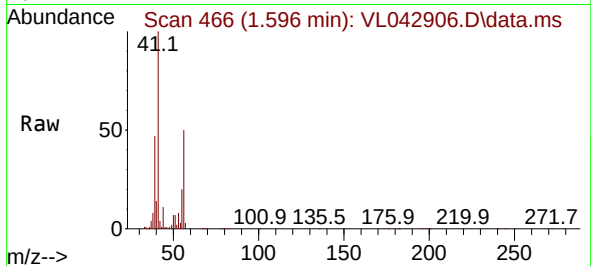




#16
1,3-Butadiene
Concen: 1.216 ppbv
RT: 1.596 min Scan# 411
Delta R.T. -0.007 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

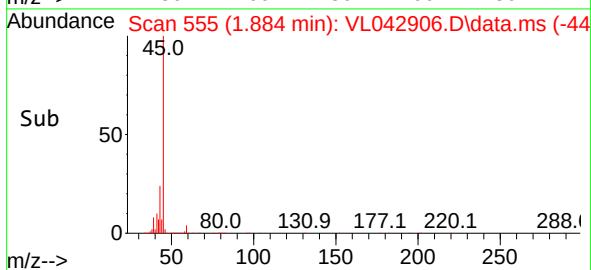
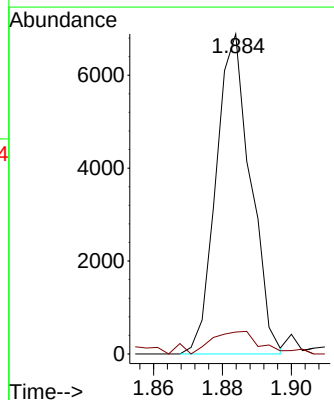
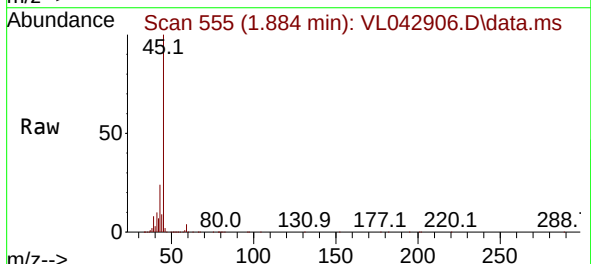
Instrument :
MSVOA_L
ClientSampleId :
SV-1

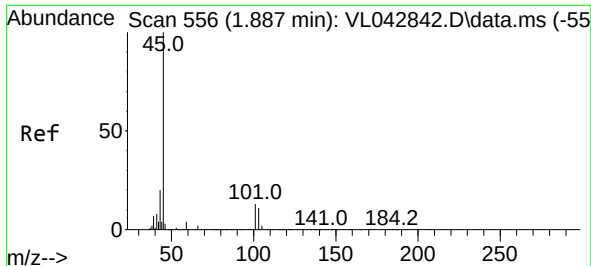
Tgt Ion: 39 Resp: 10410
Ion Ratio Lower Upper
39 100
54 16.2 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 0.214 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.149 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 59 Resp: 4803
Ion Ratio Lower Upper
59 100
57 11.0 9.0 13.4

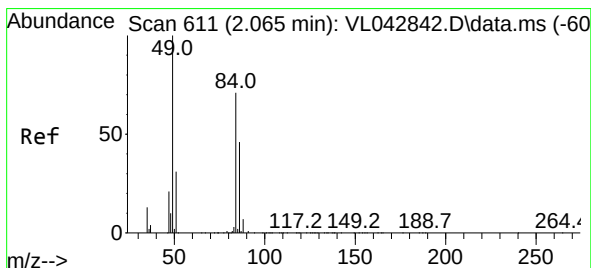
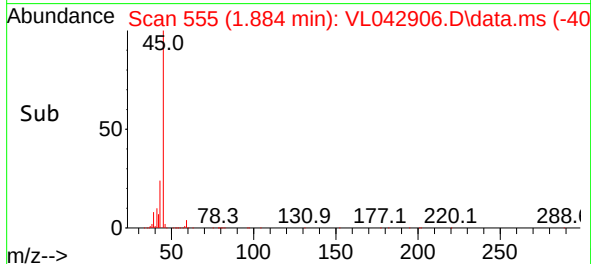
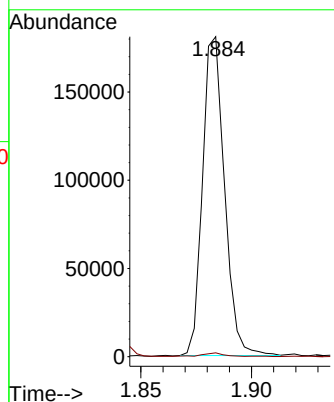
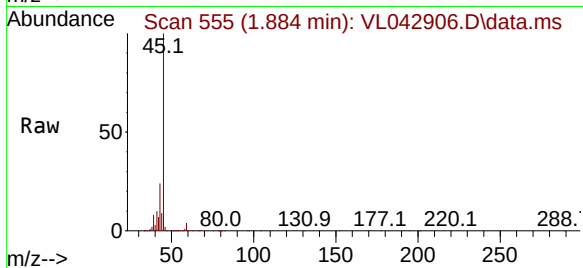




#19
Isopropyl Alcohol
Concen: 11.054 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

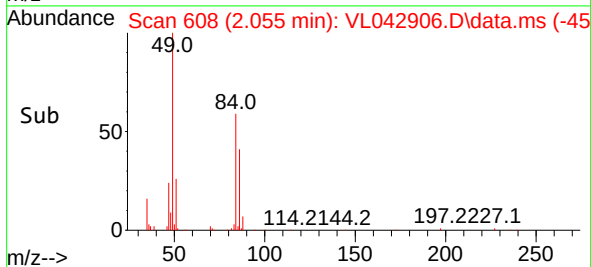
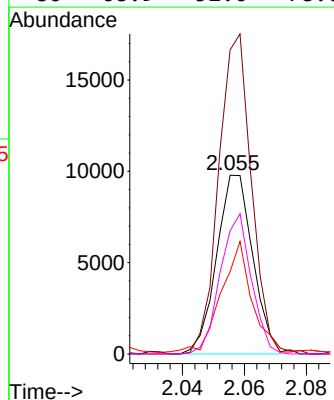
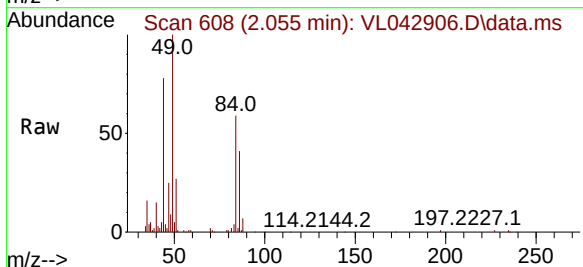
Instrument :
MSVOA_L
ClientSampleId :
SV-1

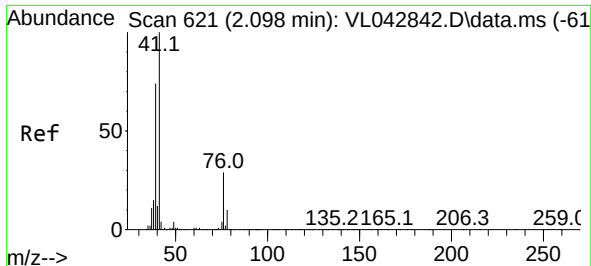
Tgt Ion: 45 Resp: 124685
Ion Ratio Lower Upper
45 100
58 1.9 32.7 49.1#



#20
Methylene Chloride
Concen: 1.003 ppbv
RT: 2.055 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 84 Resp: 7932
Ion Ratio Lower Upper
84 100
49 168.1 112.3 168.5
51 44.9 36.0 54.0
86 68.9 52.0 78.0

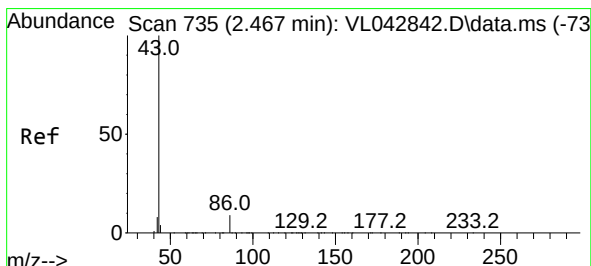
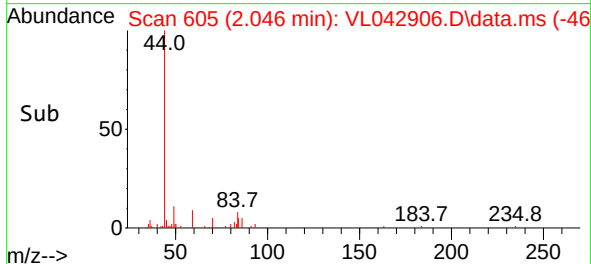
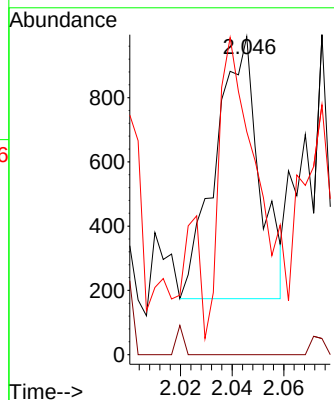
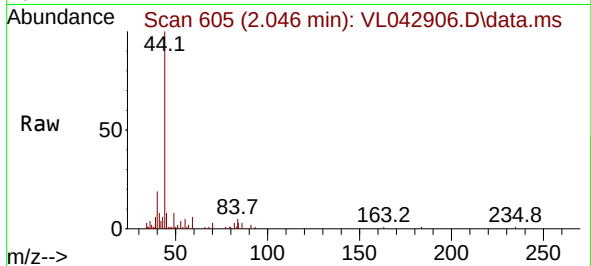




#21
 Allyl Chloride
 Concen: 0.072 ppbv
 RT: 2.046 min Scan# 605
 Delta R.T. -0.042 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

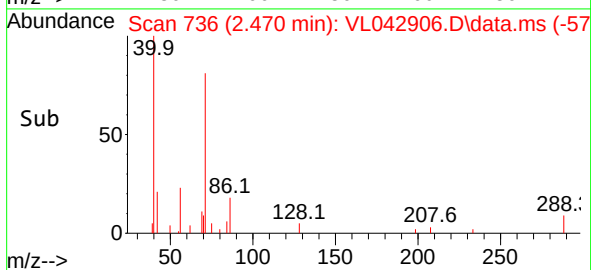
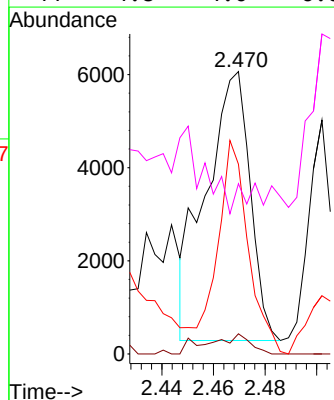
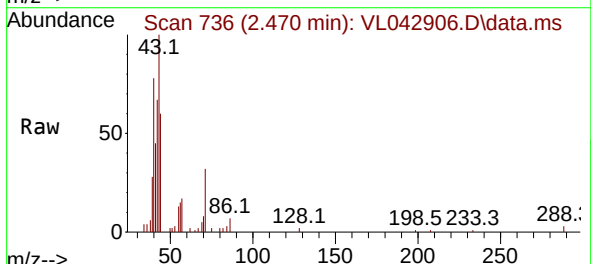
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

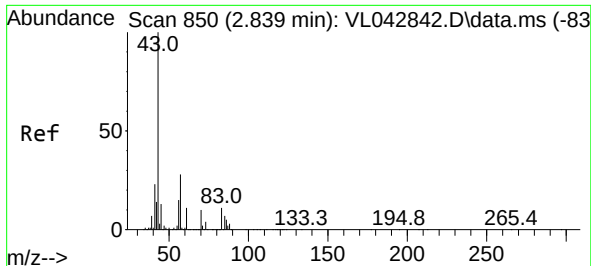
Tgt Ion: 41 Resp: 959
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.9 35.9#
 39 96.1 57.8 86.6#



#23
 Vinyl Acetate
 Concen: 0.265 ppbv
 RT: 2.470 min Scan# 736
 Delta R.T. 0.016 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 6886
 Ion Ratio Lower Upper
 43 100
 86 7.5 6.6 9.8
 42 69.6 7.0 10.6#
 44 4.8 4.0 6.0

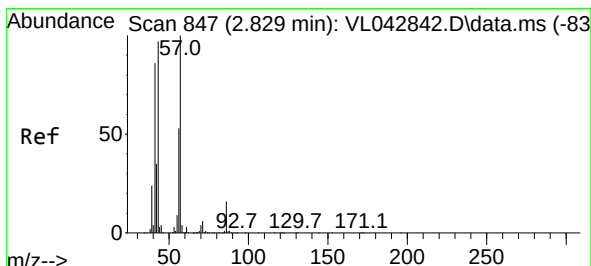
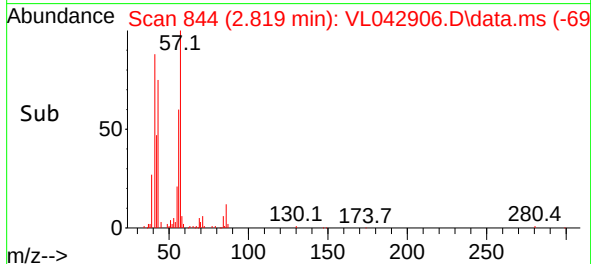
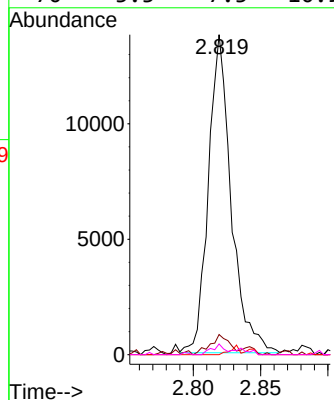
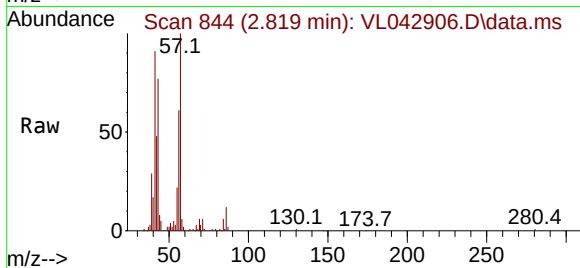




#25
Ethyl Acetate
Concen: 0.355 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

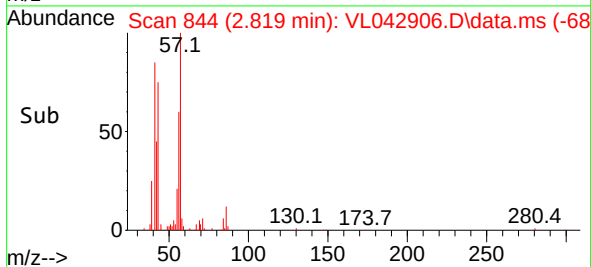
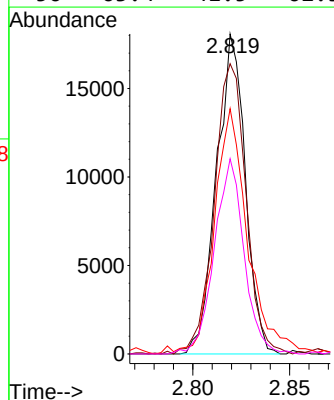
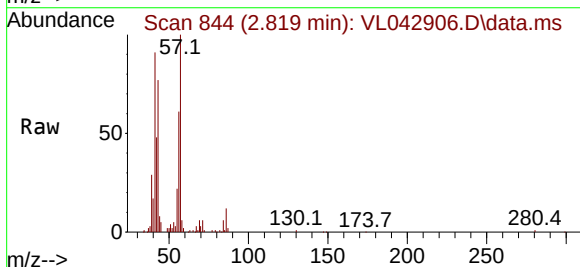
Instrument :
MSVOA_L
ClientSampleId :
SV-1

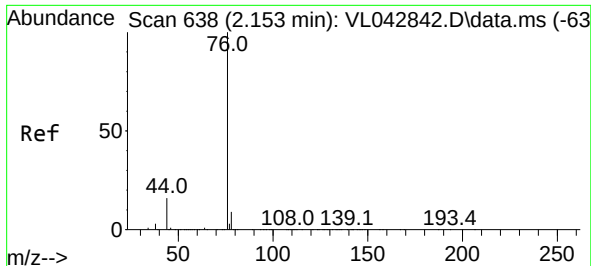
Tgt Ion: 43	Resp: 16237
Ion Ratio	Lower Upper
43 100	
45 7.7	8.1 12.1#
61 1.8	7.4 11.2#
70 3.3	7.3 10.9#



#26
Hexane
Concen: 0.888 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 57	Resp: 18740
Ion Ratio	Lower Upper
57 100	
41 101.0	68.6 103.0
43 86.5	168.5 252.7#
56 63.4	41.5 62.3#

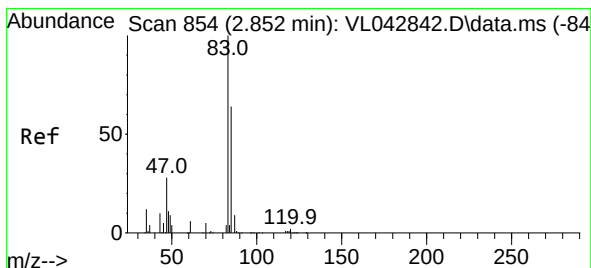
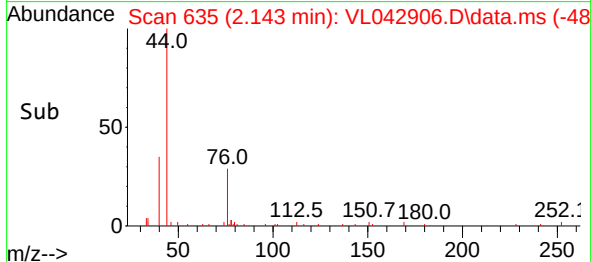
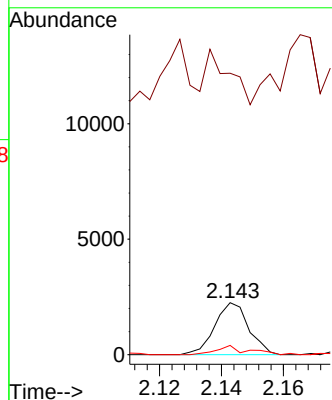
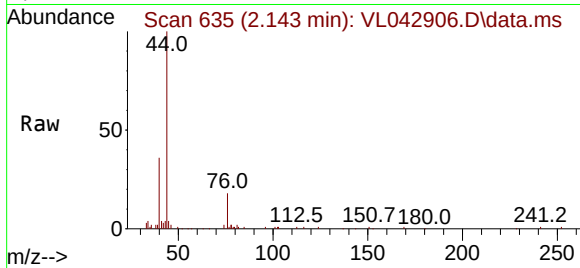




#27
Carbon Disulfide
Concen: 0.084 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

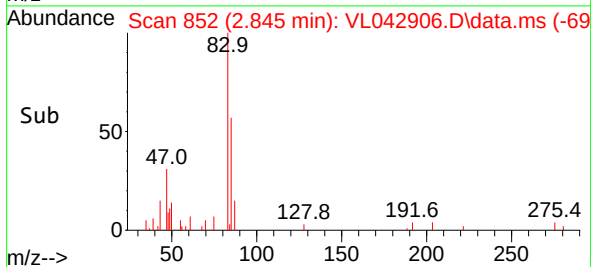
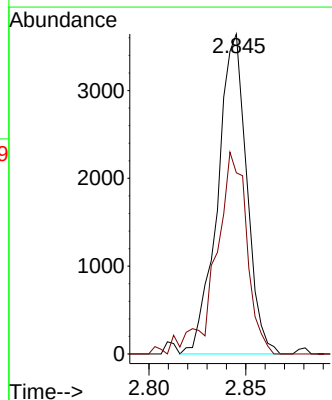
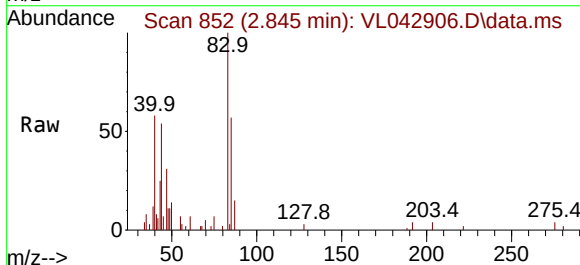
Instrument :
MSVOA_L
ClientSampleId :
SV-1

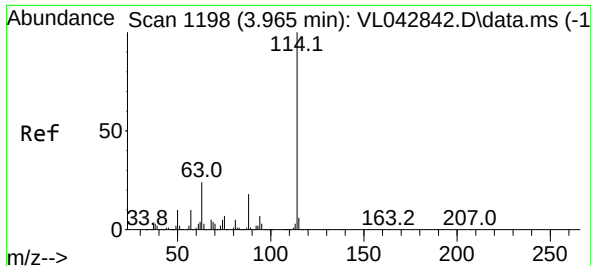
Tgt Ion: 76 Resp: 1718
Ion Ratio Lower Upper
76 100
44 1182.2 15.9 23.9#
78 17.8 9.5 14.3#



#29
Chloroform
Concen: 0.127 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 83 Resp: 3811
Ion Ratio Lower Upper
83 100
85 56.6 51.1 76.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA_L

ClientSampleId :

SV-1

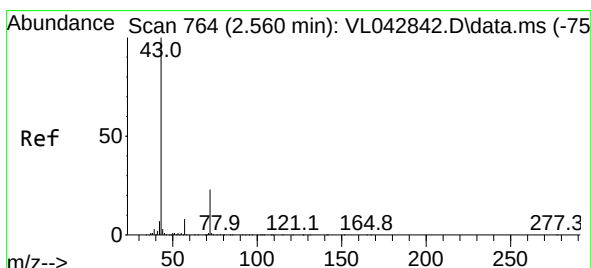
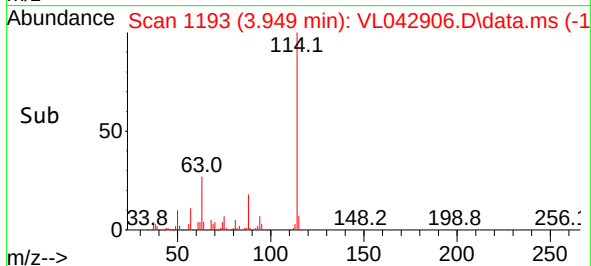
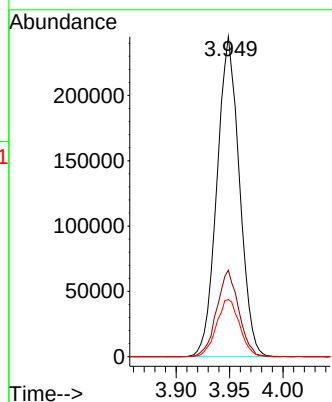
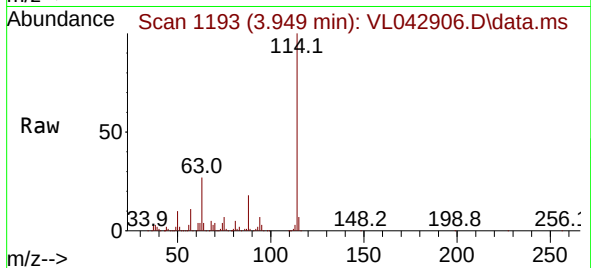
Tgt Ion:114 Resp: 358223

Ion Ratio Lower Upper

114 100

63 26.5 19.7 29.5

88 18.4 14.4 21.6



#34

2-Butanone

Concen: 3.469 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042906.D

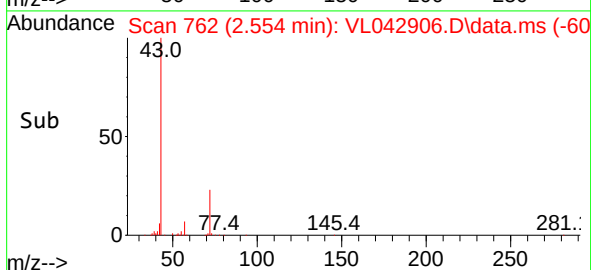
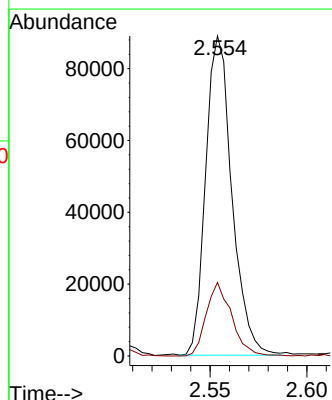
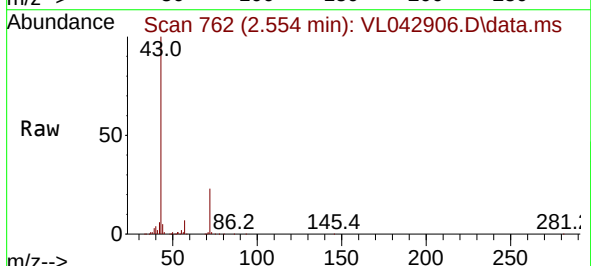
Acq: 08 Sep 2025 16:33

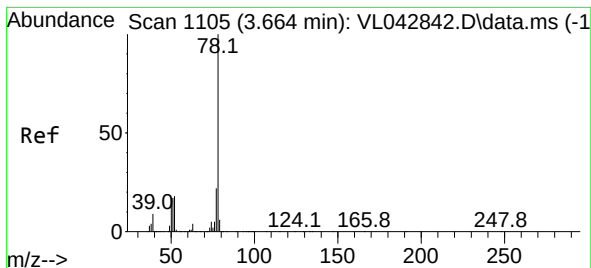
Tgt Ion: 43 Resp: 83905

Ion Ratio Lower Upper

43 100

72 22.6 18.6 28.0





#36

Benzene

Concen: 0.187 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA_L

ClientSampleId :

SV-1

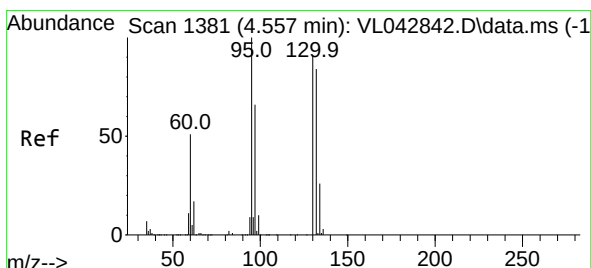
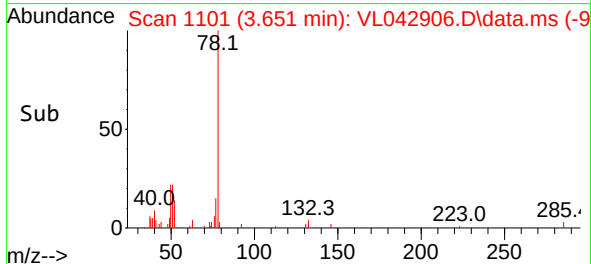
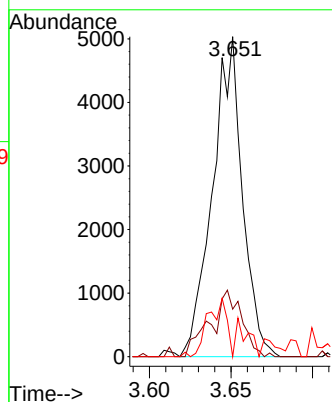
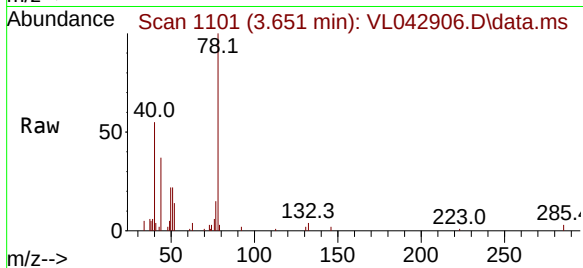
Tgt Ion: 78 Resp: 6417

Ion Ratio Lower Upper

78 100

77 14.9 17.7 26.5#

50 0.0 13.9 20.9#



#38

Trichloroethene

Concen: 0.042 ppbv

RT: 4.535 min Scan# 1374

Delta R.T. 0.003 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Tgt Ion:130 Resp: 659

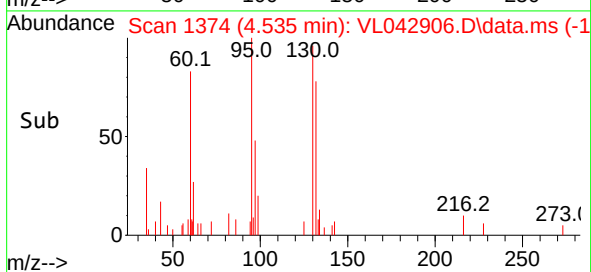
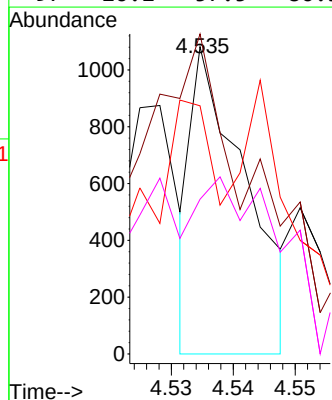
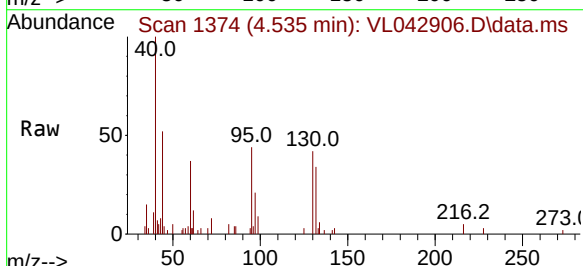
Ion Ratio Lower Upper

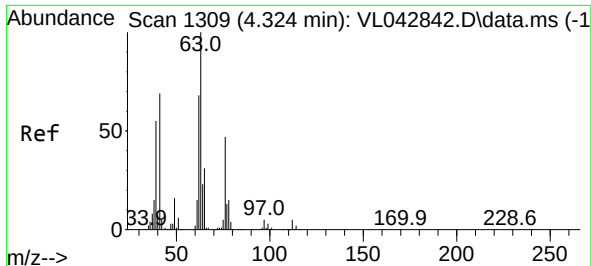
130 100

95 95.0 87.6 131.4

132 45.2 73.8 110.8#

97 26.2 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 7.566 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

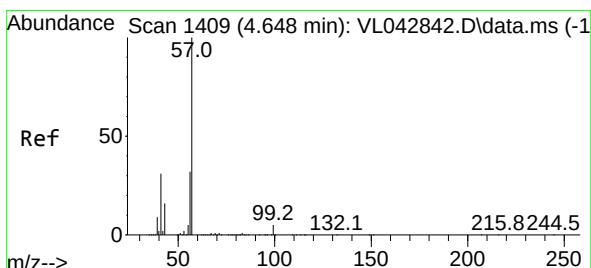
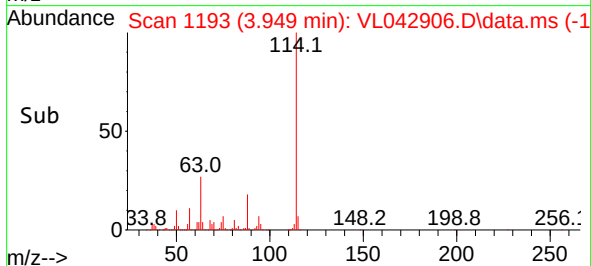
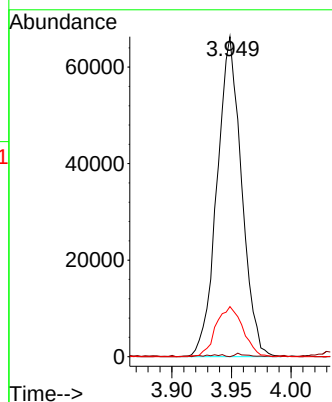
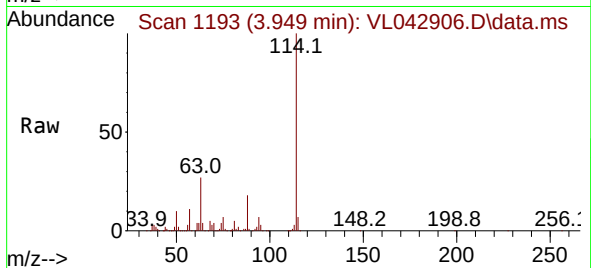
Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion:	63	Resp:	94790
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.0	82.4#
62	15.6	54.4	81.6#



#44

2,2,4-Trimethylpentane

Concen: 0.070 ppbv

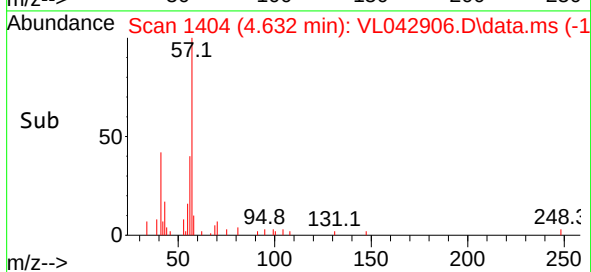
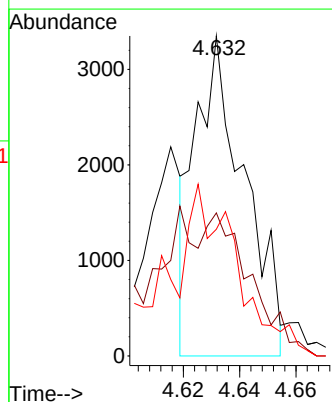
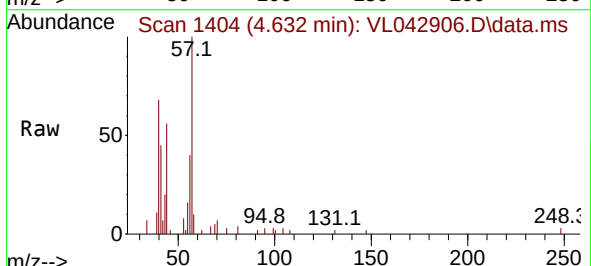
RT: 4.632 min Scan# 1404

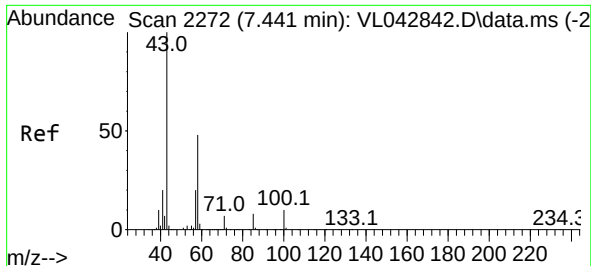
Delta R.T. 0.009 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Tgt Ion:	57	Resp:	4054
Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.8	37.2#
56	87.4	25.5	38.3#

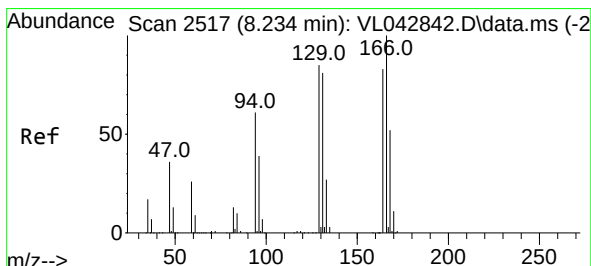
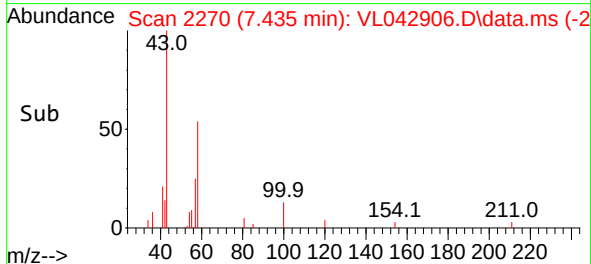
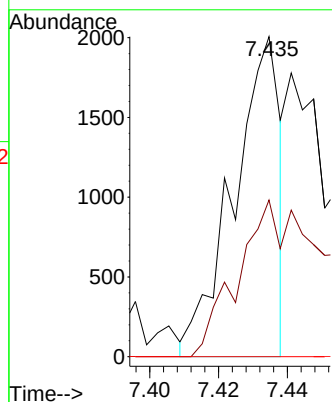
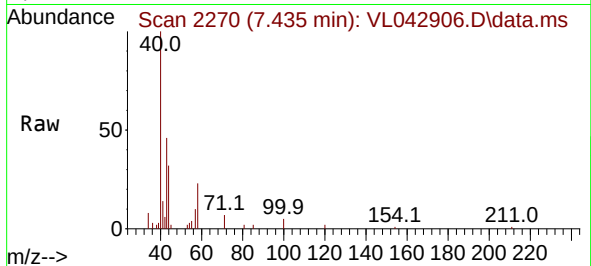




#51
2-Hexanone
Concen: 0.073 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

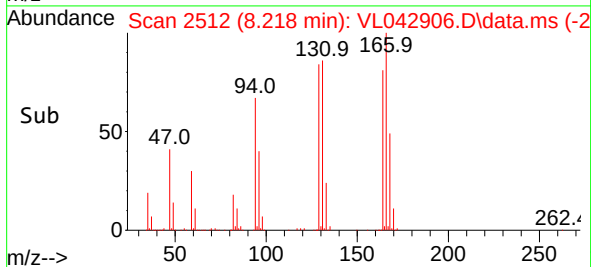
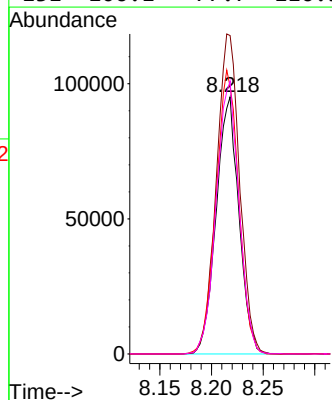
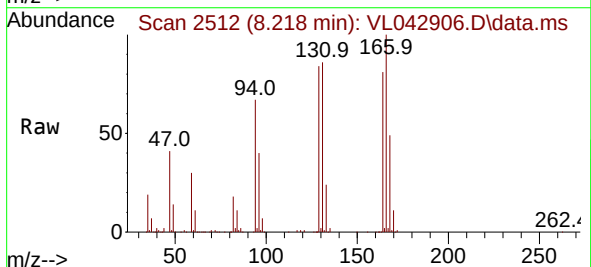
Instrument :
MSVOA_L
ClientSampleId :
SV-1

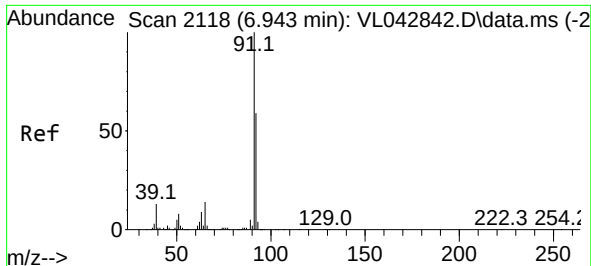
Tgt Ion: 43 Resp: 1883
Ion Ratio Lower Upper
43 100
58 95.5 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 11.711 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion:164 Resp: 145329
Ion Ratio Lower Upper
164 100
166 123.8 96.5 144.7
129 103.9 81.8 122.6
131 106.1 77.7 116.5

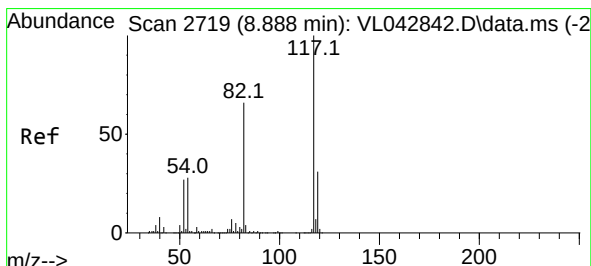
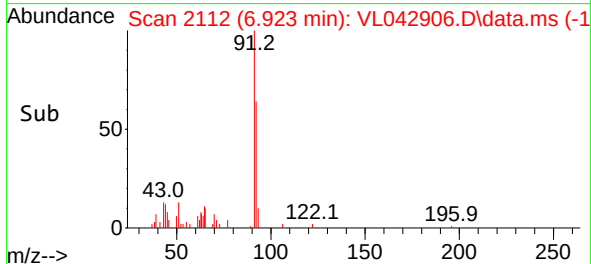
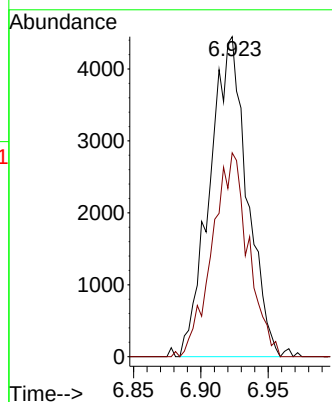
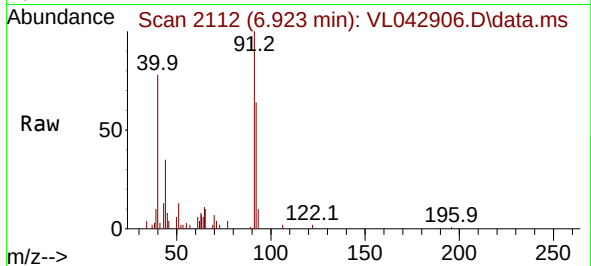




#53
Toluene
Concen: 0.211 ppbv
RT: 6.923 min Scan# 2118
Delta R.T. 0.009 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

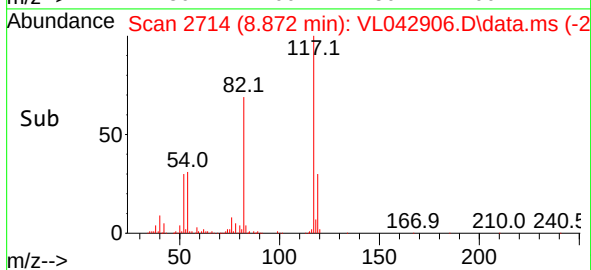
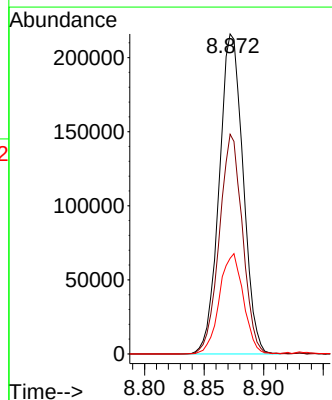
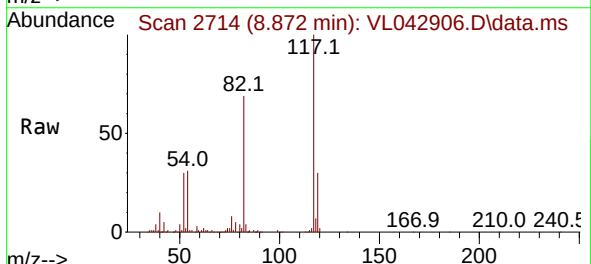
Instrument :
MSVOA_L
ClientSampleId :
SV-1

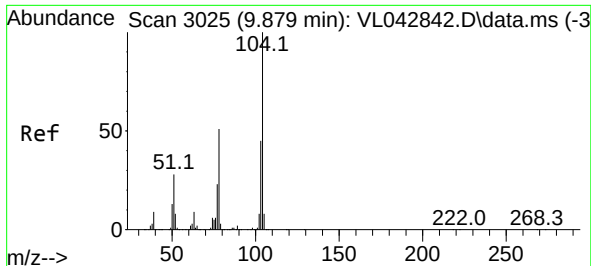
Tgt Ion: 91 Resp: 8585
Ion Ratio Lower Upper
91 100
92 61.6 47.8 71.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.003 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 117 Resp: 300604
Ion Ratio Lower Upper
117 100
82 66.8 54.6 81.8
119 31.6 25.9 38.9

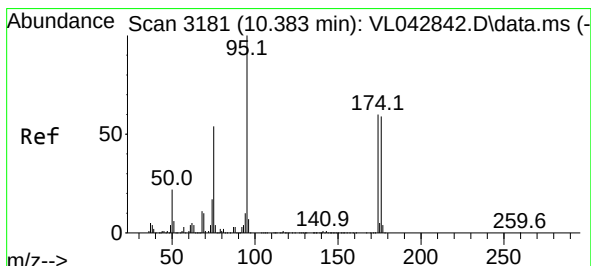
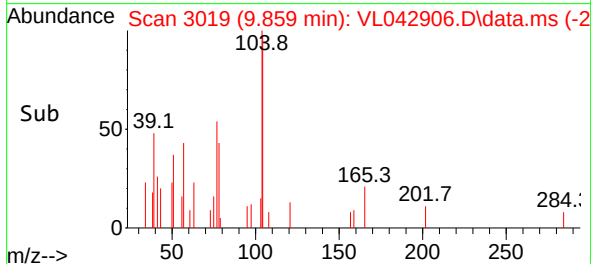
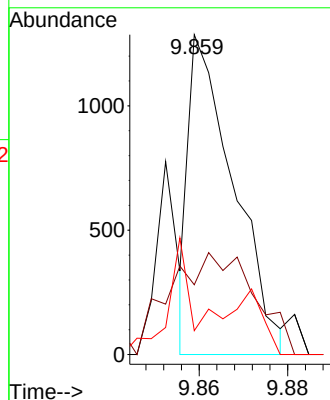
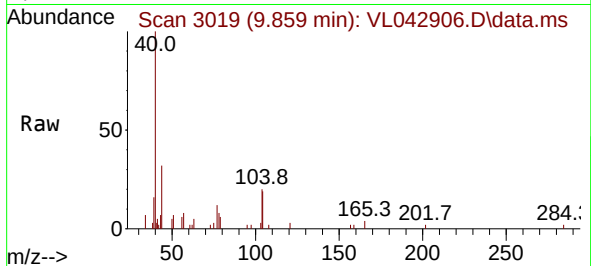




#61
Styrene
Concen: 0.046 ppbv
RT: 9.859 min Scan# 3025
Delta R.T. -0.000 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

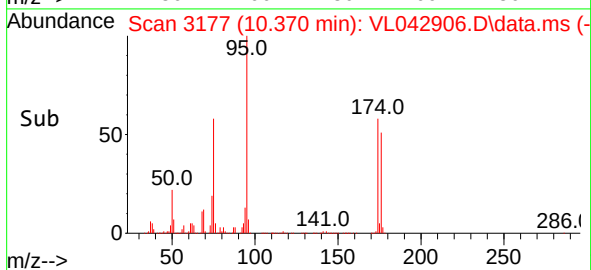
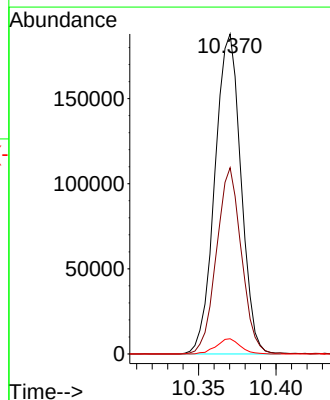
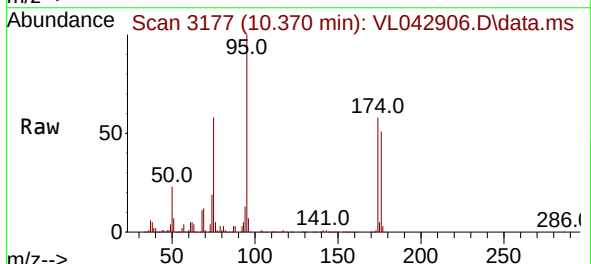
Instrument :
MSVOA_L
ClientSampleId :
SV-1

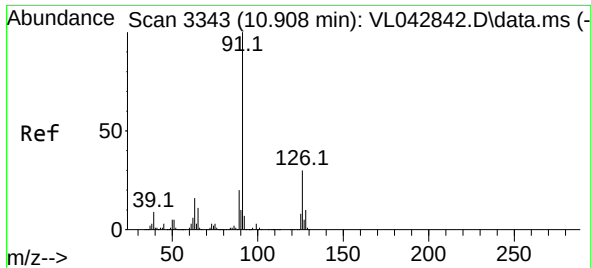
Tgt Ion:104 Resp: 907
Ion Ratio Lower Upper
104 100
78 67.0 40.6 61.0#
103 36.5 37.7 56.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.765 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042906.D
Acq: 08 Sep 2025 16:33

Tgt Ion: 95 Resp: 220147
Ion Ratio Lower Upper
95 100
174 55.8 48.4 72.6
175 4.4 3.8 5.8





#71
 2-Chlorotoluene
 Concen: 3.250 ppbv
 RT: 10.853 min Scan# 31
 Delta R.T. -0.039 min
 Lab File: VL042906.D
 Acq: 08 Sep 2025 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tgt Ion: 91 Resp: 154255
 Ion Ratio Lower Upper
 91 100
 126 0.0 12.0 47.8#

