

Cover Page

Order ID : Q3037

Project ID : Emerson Vapor Intrusion REG006-0309010-25011690

Client : Apex Companies, LLC.

Lab Sample Number

Q3037-01

Client Sample Number

IA-2

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

Signature : _____

Date: 9/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

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 Individual Certified				ONLY REPORT TO-15 - PCE, TCE, Vinyl Chloride, 1,2-DEC		Indoor/Ambient Air Soil Gas			
				Phone Number : 973-475-5502													
				Fax Number :													
				Site Details:													
Analysis Turnaround Time				Standard : 10 business days OR				Data Package Type :									
Country :				Rush (Specify): <u>5</u> Days				EDD Type :									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID				
1A-2	9/15/21	07:10	13:55	-30.00	-5.00	74°	74°	-30	-10.8	10640	10608	6 L	12.5	VL042828.D			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15)							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments : Please report indoor air samples (1A-2) on diff. report from SV samples																	
Suspected Contamination: High Medium Low PID Readings:																	
Sampling site (State): <u>New Jersey</u>																	
Quick Connector required : <u>NO</u>																	
Canisters Shipped by:				Date/Time: <u>9/15/21</u>				Canisters Received by:				Date/Time: <u>9-15-21</u>				B2508049 - 4	
Samples Relinquished by: <u>Luis Arias</u>				Date/Time: <u>9/15/21 16:17</u>				Received by:				Date/Time: <u>9-15-21 16:20</u>					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

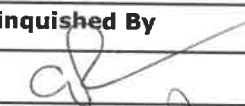
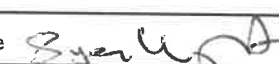
Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
~~NAES:~~		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q3037</u>		Date Broken <u>9/8/2025</u>	Military Time Seal Broken: <u>16:20:00</u>
Case No.: <u>Emerson Vapor Intrusion R</u>		Analytical Parameter/Fraction <u>TO-15</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3037-01	IA-2		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
9/8/25	2:50	Signature		Signature		
		Printed Name	Cassandre Peric	Printed Name	Semseth Yesilguzel	
		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 #: 1A-2

Client Name: Area

Project Name: E-mover phase II

Date: 9/5/05 Time:

Analysis:

Comments:

Storage Location: Air Lab

Sample: Q3037-01

Cust #: 1A-2

CHEMTECH

Date Received

Disposal:

8/10/05
106060

64080529



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 # Q3037

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.

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
VSTDICCC001	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 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	1,1,1- Trichloroethane	SAM	8/14/2025 7:48:23	MMDadoda	8/18/2025 8:42:18	Peak Integrated

				AM		AM	by Software incorrectly
VSTDIC0.1	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
VSTDIC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	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
VSTDIC0.03	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
VSTDIC0.03	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
VSTDIC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC015	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	sa m	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	sa m	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software incorrectly
VL0908ABS01	VL042902.D	Propene	sa m	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	4-Methyl-2-Pentanone	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Benzene	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Carbon Tetrachloride	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	m/p-Xylene	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Methyl Methacrylate	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	n-propylbenzene	sa m	9/9/2025	MMDadoda	9/11/2025 5:28:18	Peak Integrate

				12:26:43 PM		PM	d by Software incorrectl y
Q3037-01	VL042904.D	Propene	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectl y
Q3037-01	VL042904.D	Trichlorofluoromethane	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectl y
Q3037-01	VL042904.D	Vinyl Acetate	sa m	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectl y
Q3037-01DUP	VL042905.D	Benzene	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectl y
Q3037-01DUP	VL042905.D	m/p-Xylene	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectl y
Q3037-01DUP	VL042905.D	Methyl Methacrylate	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectl y
Q3037-01DUP	VL042905.D	n-propylbenzene	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectl y
Q3037-01DUP	VL042905.D	Propene	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectl y
Q3037-01DUP	VL042905.D	Tetrahydrofuran	sa m	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	sa m	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	sa m	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	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 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 #: Q3037

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: 09/16/2025



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

LAB CHRONICLE

OrderID:	Q3037	OrderDate:	9/8/2025 8:25:21 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
Q3037-01	IA-2	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.: Q3037

Client: Apex Companies, LLC.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

Project : Emerson Vapor Intrusion REG006-0309010-25011690

Sampling Date : 09/05/25

Field Id Number : IA-2

Analysis Date : 09/08/25

Laboratory Id Number : Q3037-01

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	0.03	U	0.08		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		

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



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

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



QC SUMMARY

Surrogate Summary

SDG No.: Q3037

Client: Apex Companies, LLC.

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3037-01	IA-2	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3037-01DUP	IA-2DUP	1-Bromo-4-Fluorobenzene	10	10.4	104		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>Q3037</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.: Q3037

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-2	Q3037-01	VL042904.D	09/08/2025
IA-2DUP	Q3037-01DUP	VL042905.D	09/08/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: APEX04

Lab Code: ACE

SDG NO.: Q3037

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.: Q3037

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-2	Q3037-01	VL042904.D	09/08/2025	15:15
IA-2DUP	Q3037-01DUP	VL042905.D	09/08/2025	15:59

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: APEX04
 Lab Code: ACE SDG NO.: Q3037
 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-2	138126	2.78	368558	3.95	302216	8.88
IA-2DUP	141221	2.78	372044	3.95	303028	8.88
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:	IA-2	SDG No.:	Q3037
Lab Sample ID:	Q3037-01	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
VL042904.D	1		09/08/25 15:15	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	138000		2.784		
540-36-3	1,4-Difluorobenzene	369000		3.952		
3114-55-4	Chlorobenzene-d5	302000		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 : VL042904.D
 Acq On : 08 Sep 2025 15:15
 Operator : SY/MD
 Sample : Q3037-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

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

Quant Time: Sep 09 04:40:55 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	2.784	49	138126	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	368558	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	302216	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	236452	10.432	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	9878	0.488	ppbv	90
3) Chlorodifluoromethane	1.473	51	93046	4.158	ppbv #	91
4) Chloromethane	1.531	50	8036	0.984	ppbv	100
9) Propene	1.486	41	7792m	0.806	ppbv	
11) Trichlorofluoromethane	1.874	101	8692m	0.435	ppbv	
13) Ethanol	1.719	45	172209	194.899	ppbv	90
15) Acetone	1.832	43	2285778	125.100	ppbv #	77
19) Isopropyl Alcohol	1.884	45	2178522	199.623	ppbv	98
20) Methylene Chloride	2.059	84	8085	1.056	ppbv #	82
23) Vinyl Acetate	2.450	43	18775m	0.747	ppbv	
25) Ethyl Acetate	2.832	43	151536	3.427	ppbv #	94
26) Hexane	2.822	57	18422m	0.903	ppbv	
29) Chloroform	2.845	83	8304	0.285	ppbv	89
34) 2-Butanone	2.557	43	26086	1.048	ppbv	96
35) Carbon Tetrachloride	3.748	117	4551m	0.179	ppbv	
36) Benzene	3.648	78	4228m	0.120	ppbv	
41) Tetrahydrofuran	3.059	42	2514	0.181	ppbv #	53
43) Methyl Methacrylate	4.874	69	4146m	0.285	ppbv	
50) 4-Methyl-2-Pentanone	5.739	43	72979m	2.170	ppbv	
53) Toluene	6.923	91	13909	0.331	ppbv	98
59) m/p-Xylene	9.525	91	7779m	0.186	ppbv	
60) o-Xylene	9.959	91	4398	0.105	ppbv	100
64) n-propylbenzene	10.988	120	1936m	0.123	ppbv	
72) 4-Ethyltoluene	11.118	105	12697	0.249	ppbv #	62
73) 1,3,5-Trimethylbenzene	11.199	105	13893	0.320	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	53900	1.133	ppbv #	60

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

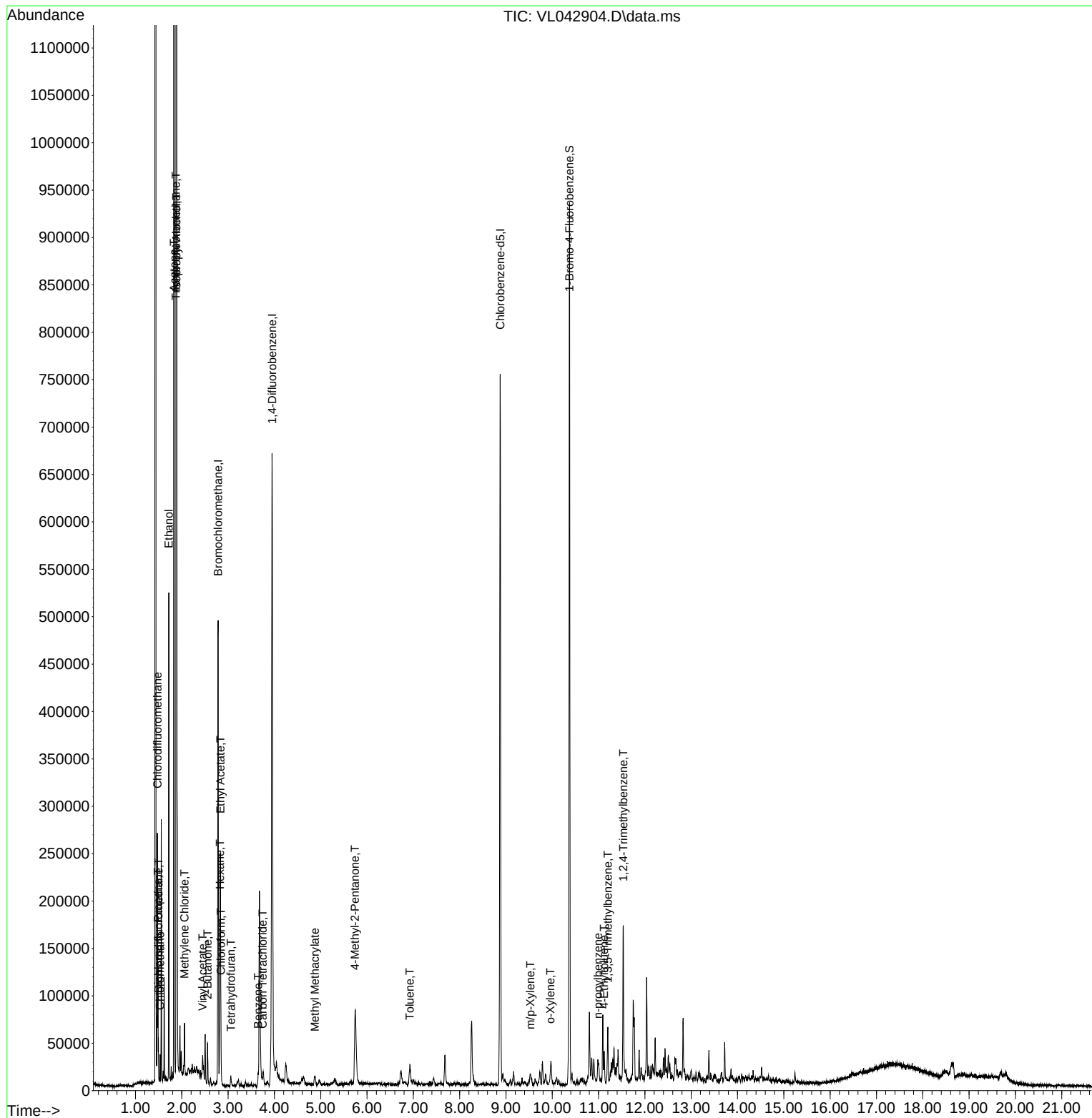
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

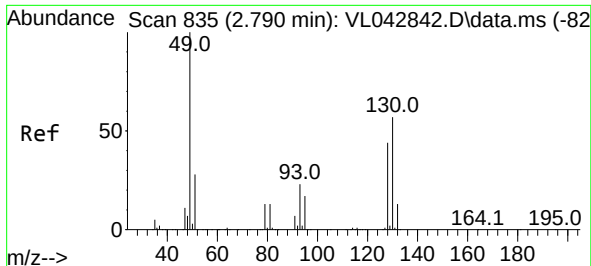
Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Sep 09 04:40:55 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

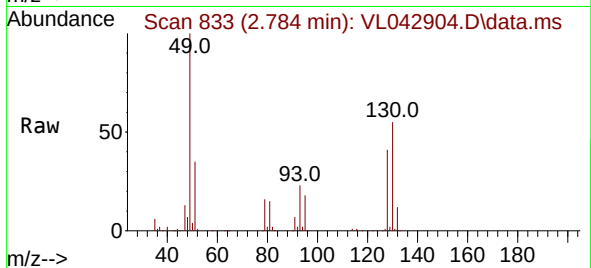
Reviewed By : Semsettin Yesilyurt 09/09/2025
Supervised By : Mahesh Dadoda 09/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

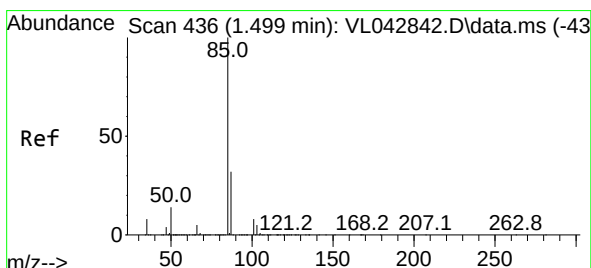
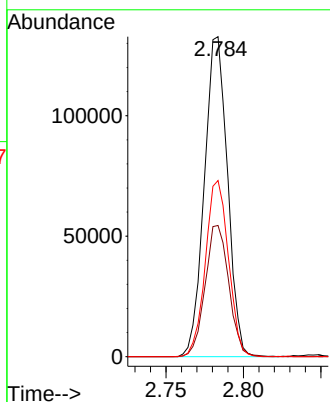
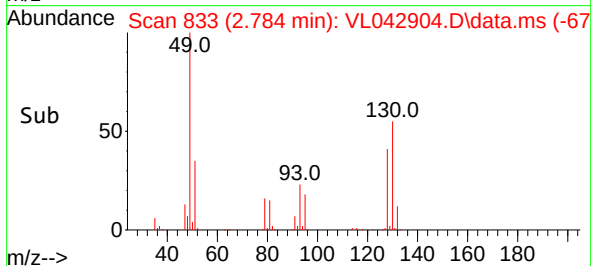
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 49 Resp: 138120
Ion Ratio Lower Upper
49 100
128 41.9 23.7 71.1
130 54.7 30.6 91.6

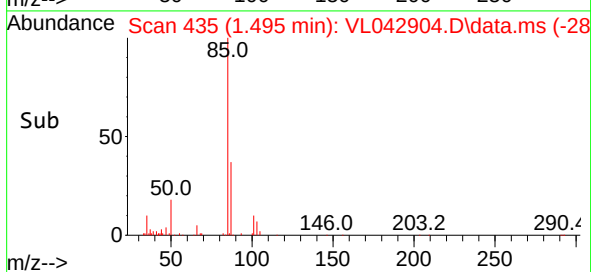
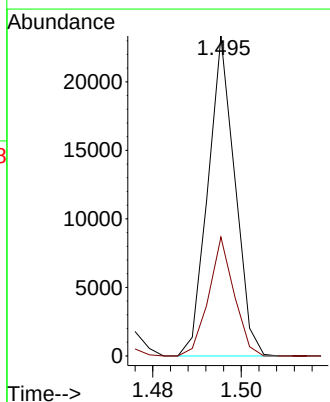
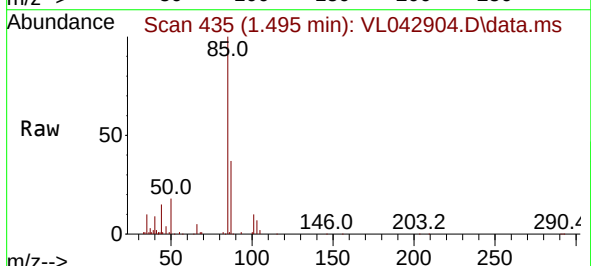
Manual Integrations
APPROVED

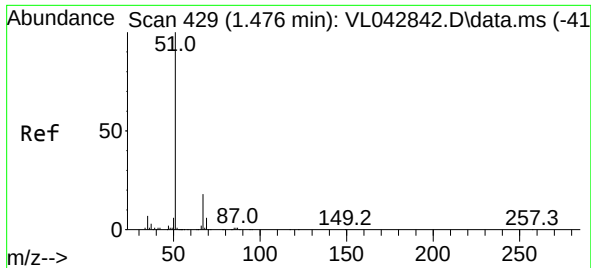
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 85 Resp: 9878
Ion Ratio Lower Upper
85 100
87 37.1 25.3 37.9





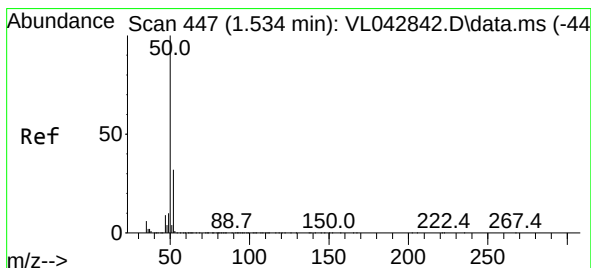
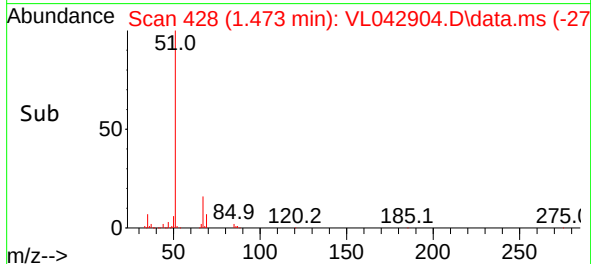
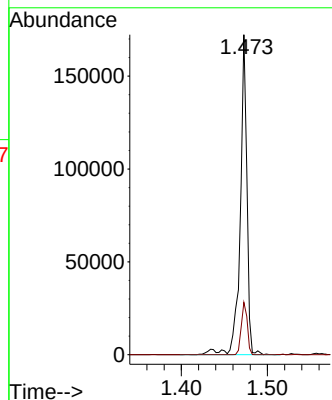
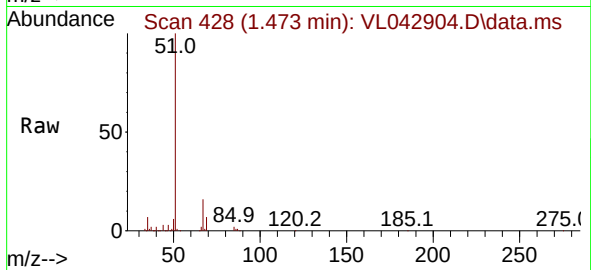
#3
Chlorodifluoromethane
Concen: 4.158 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 51 Resp: 93040
Ion Ratio Lower Upper
51 100
67 14.6 14.9 22.3

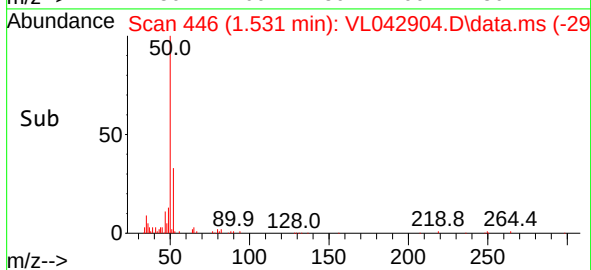
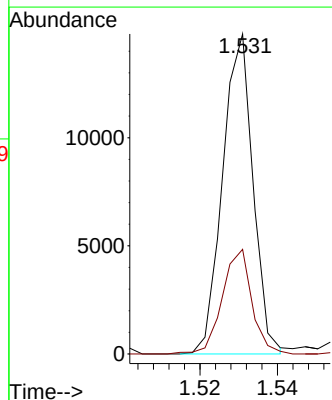
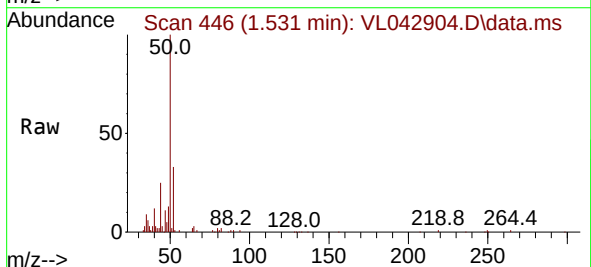
Manual Integrations
APPROVED

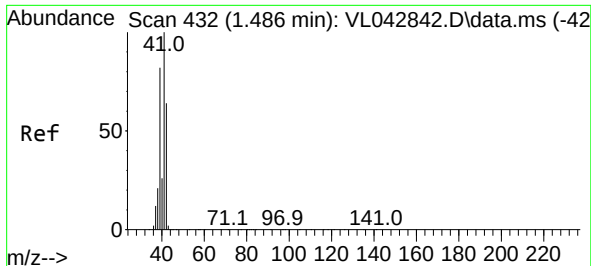
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.984 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

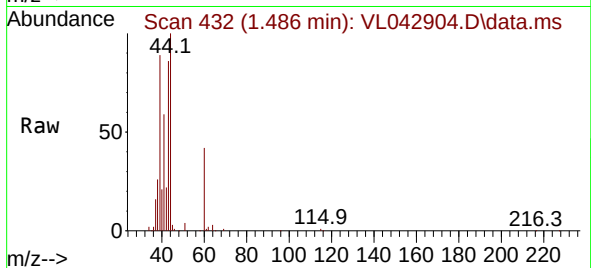
Tgt Ion: 50 Resp: 8036
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9





#9
 Propene
 Concen: 0.806 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.009 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

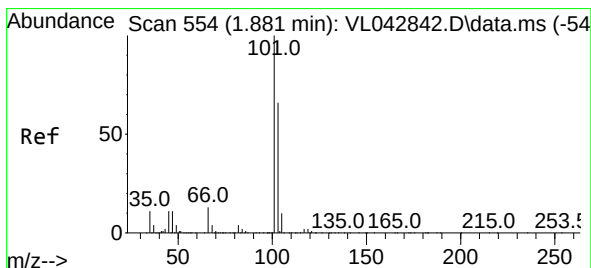
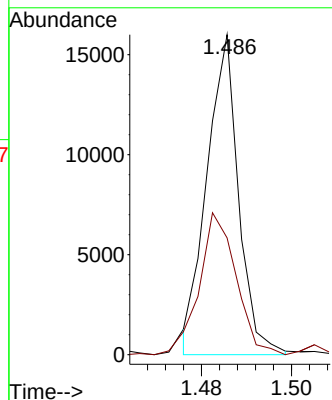
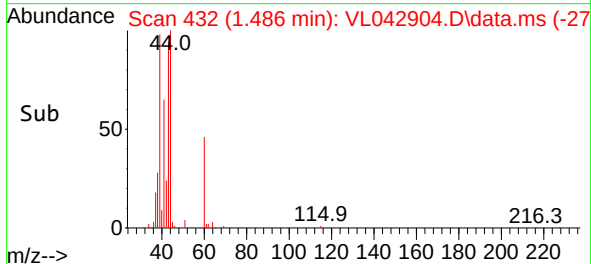
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2



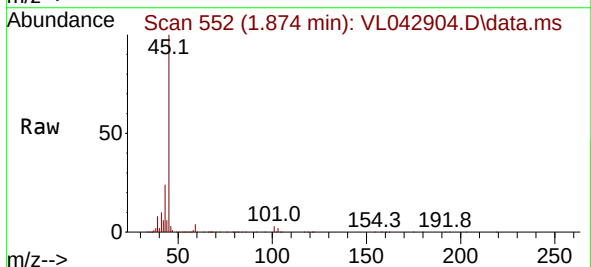
Tgt Ion: 41 Resp: 7792
 Ion Ratio Lower Upper
 41 100
 42 1913.3 53.0 79.4

Manual Integrations
 APPROVED

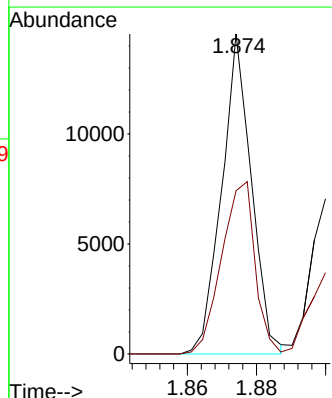
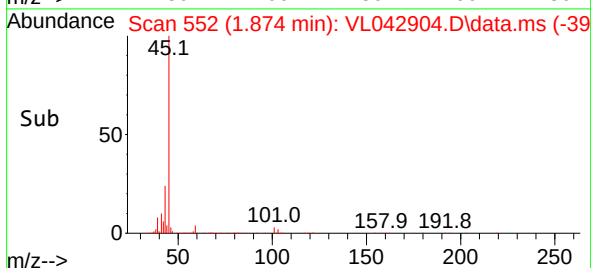
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

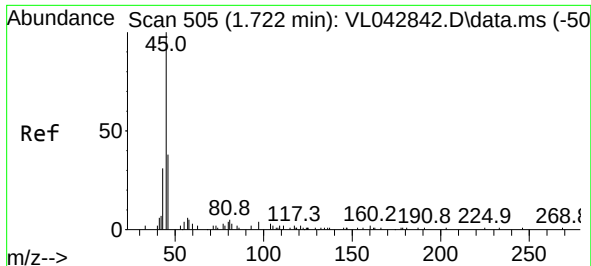


#11
 Trichlorofluoromethane
 Concen: 0.435 ppbv m
 RT: 1.874 min Scan# 552
 Delta R.T. 0.003 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15



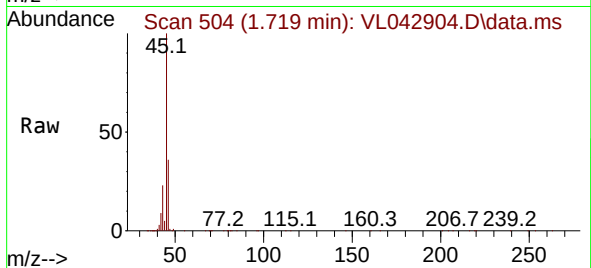
Tgt Ion:101 Resp: 8692
 Ion Ratio Lower Upper
 101 100
 103 51.0 52.5 78.7#





#13
Ethanol
Concen: 194.899 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

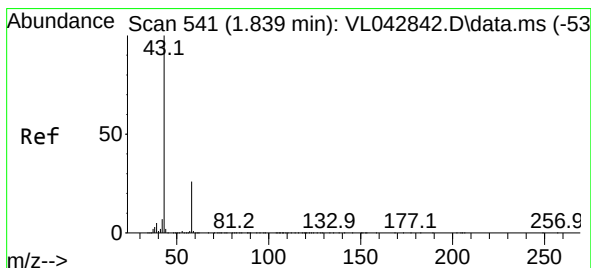
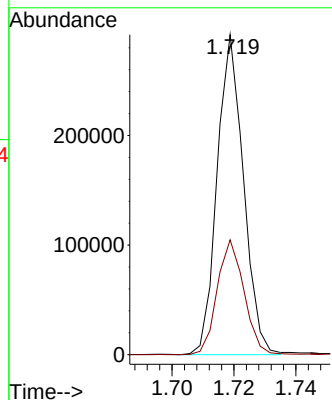
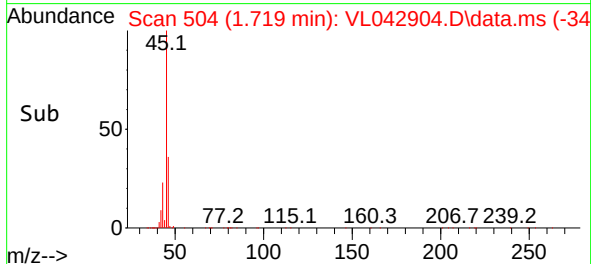
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 45 Resp: 172209
Ion Ratio Lower Upper
45 100
46 37.3 17.5 69.9

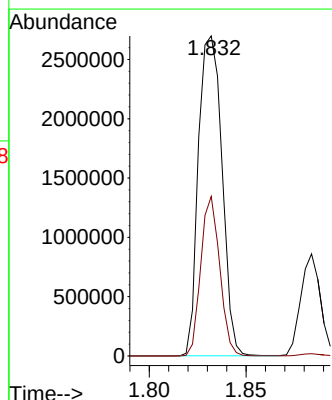
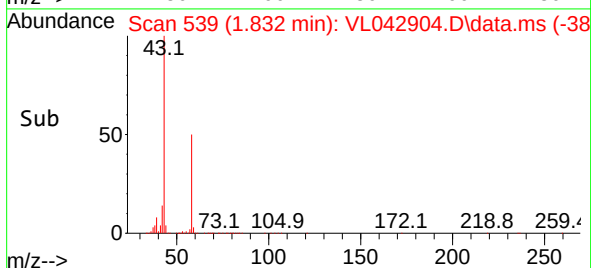
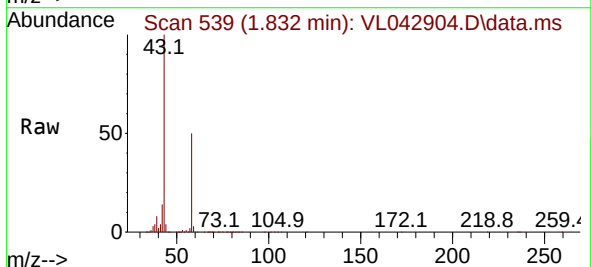
Manual Integrations
APPROVED

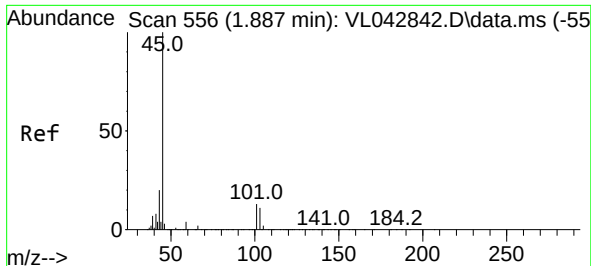
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#15
Acetone
Concen: 125.100 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 2285778
Ion Ratio Lower Upper
43 100
58 40.1 22.4 33.6#





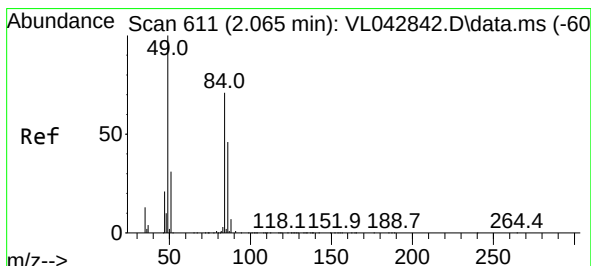
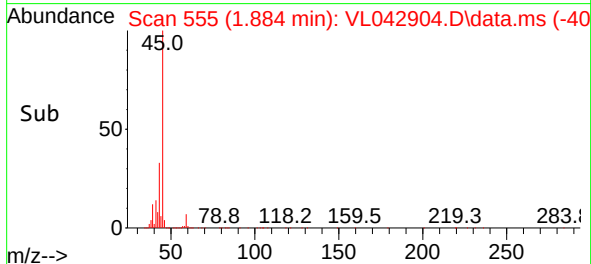
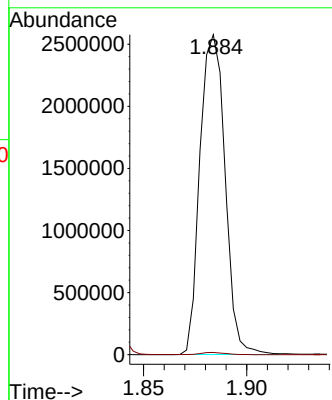
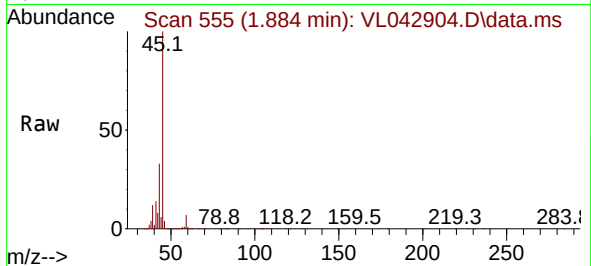
#19
Isopropyl Alcohol
Concen: 199.623 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 45 Resp: 217852
Ion Ratio Lower Upper
45 100
58 42.1 32.7 49.1

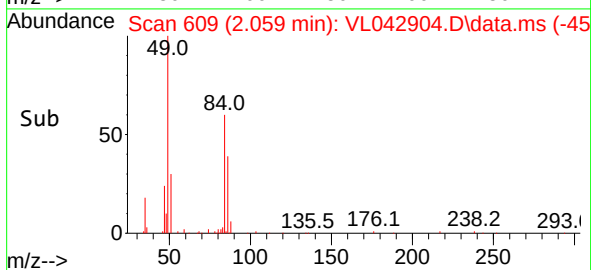
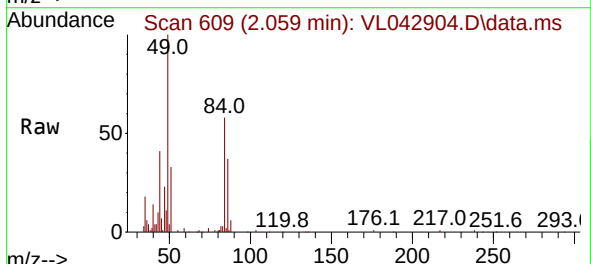
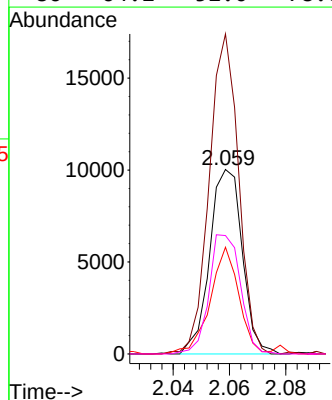
Manual Integrations
APPROVED

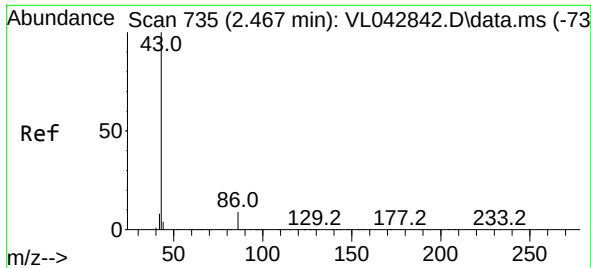
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 1.056 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 84 Resp: 8085
Ion Ratio Lower Upper
84 100
49 173.4 112.3 168.5#
51 55.0 36.0 54.0#
86 64.2 52.0 78.0





#23
 Vinyl Acetate
 Concen: 0.747 ppbv m
 RT: 2.450 min Scan# 71
 Delta R.T. -0.004 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

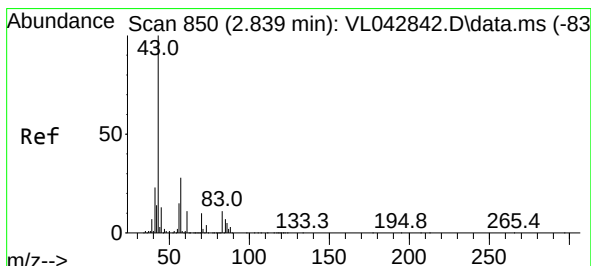
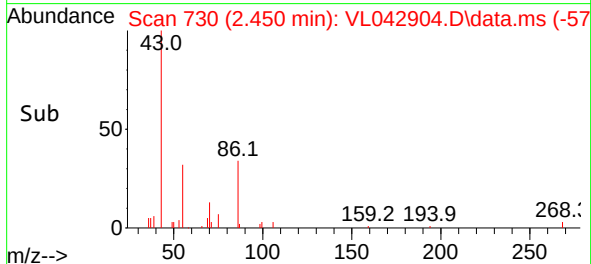
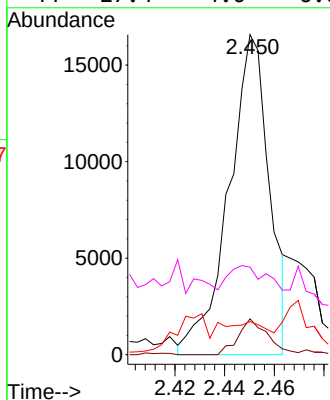
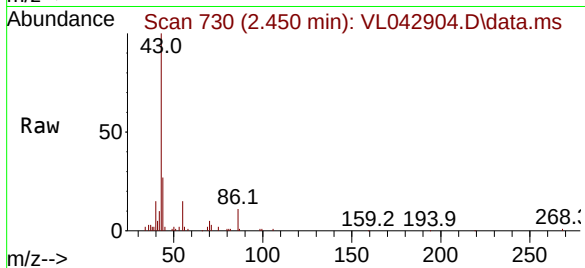
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tgt Ion: 43 Resp: 18775

Ion	Ratio	Lower	Upper
43	100		
86	11.2	6.6	9.8
42	10.4	7.0	10.6
44	27.4	4.0	6.0

Manual Integrations
 APPROVED

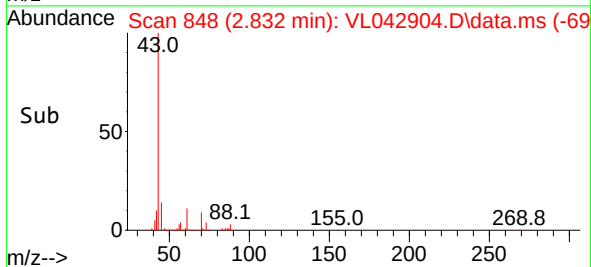
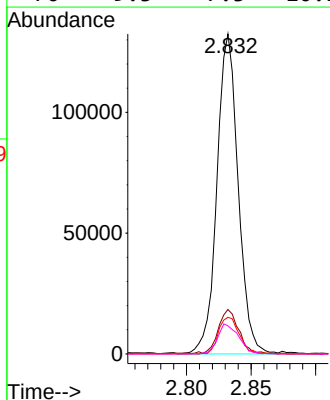
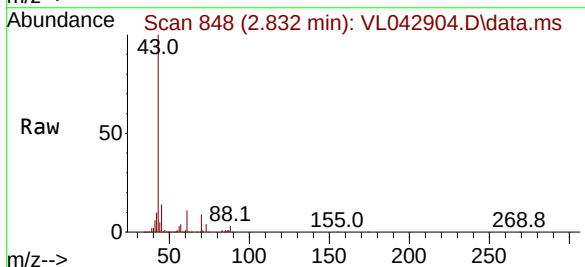
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

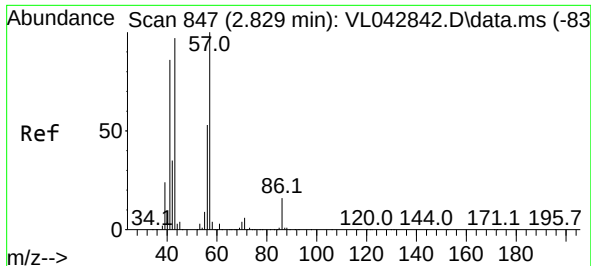


#25
 Ethyl Acetate
 Concen: 3.427 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.006 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 151536

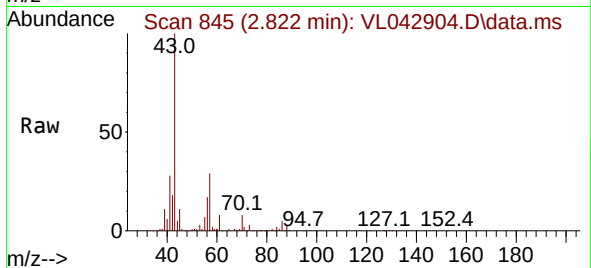
Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.1	12.1
61	11.3	7.4	11.2
70	9.3	7.3	10.9





#26
Hexane
Concen: 0.903 ppbv m
RT: 2.822 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

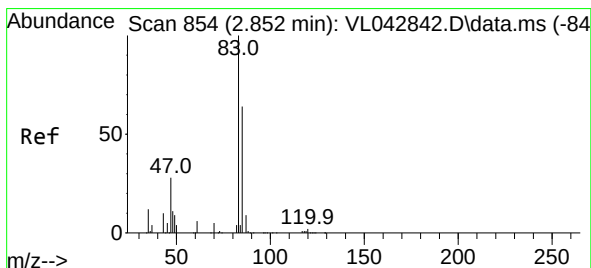
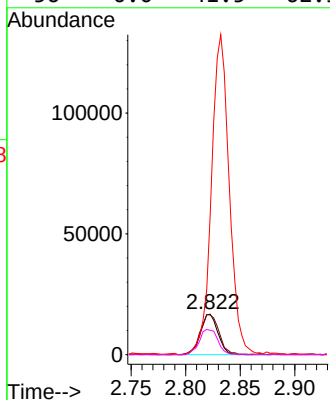
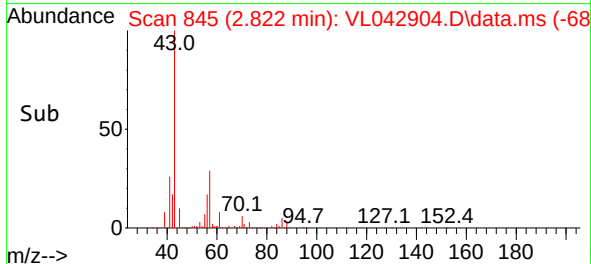
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 57 Resp: 1842
Ion Ratio Lower Upper
57 100
41 0.0 68.6 103.0
43 0.0 168.5 252.7
56 0.0 41.5 62.3

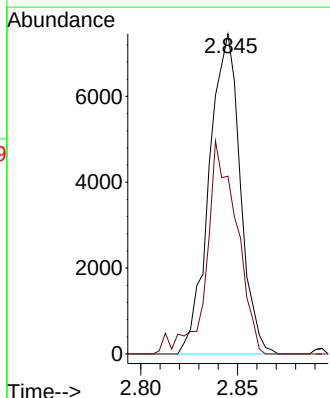
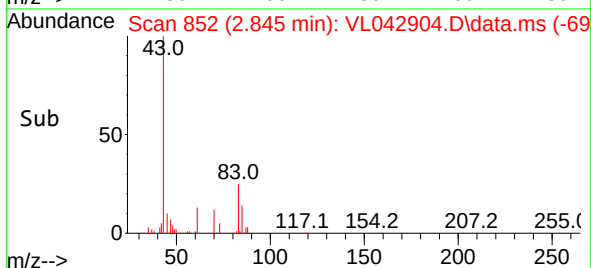
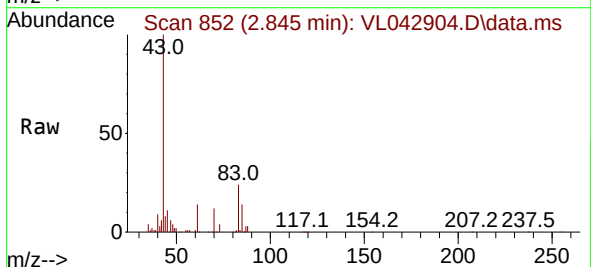
Manual Integrations
APPROVED

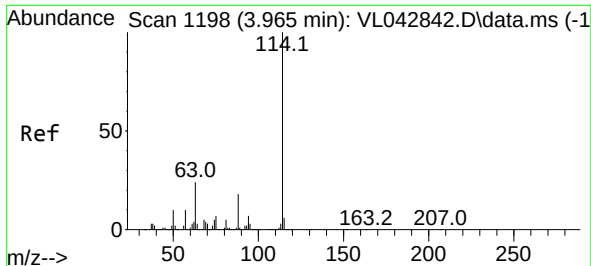
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 0.285 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 83 Resp: 8304
Ion Ratio Lower Upper
83 100
85 55.5 51.1 76.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.009 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

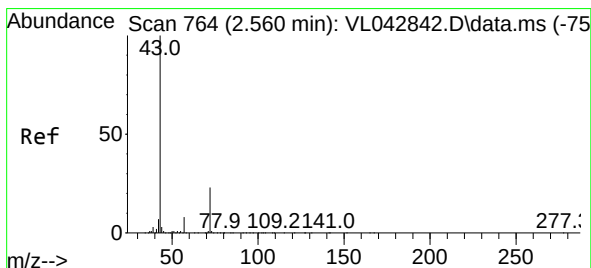
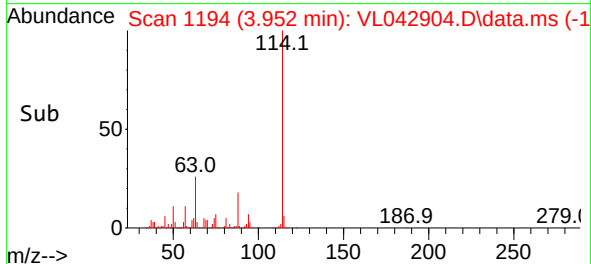
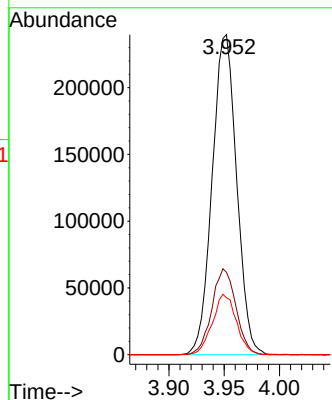
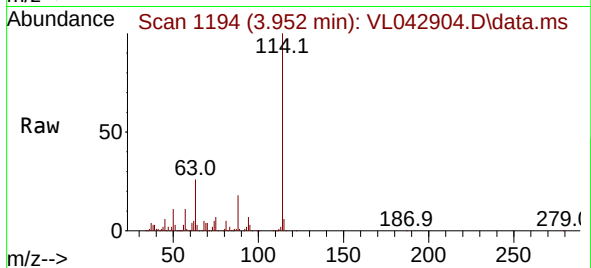
IA-2

Tgt Ion:	114	Resp:	36855
Ion Ratio	Lower	Upper	
114	100		
63	26.4	19.7	29.5
88	18.5	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: 1.048 ppbv

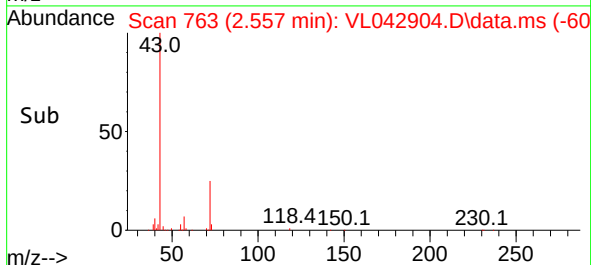
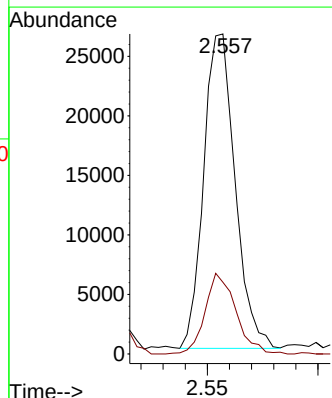
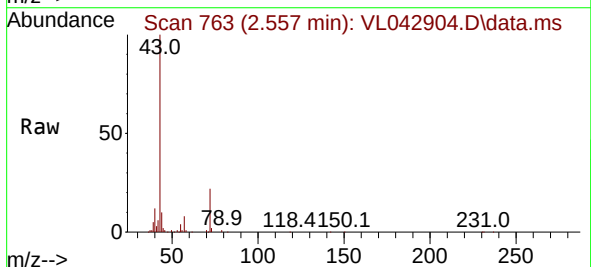
RT: 2.557 min Scan# 763

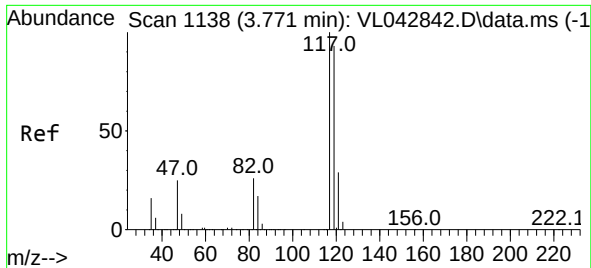
Delta R.T. 0.009 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

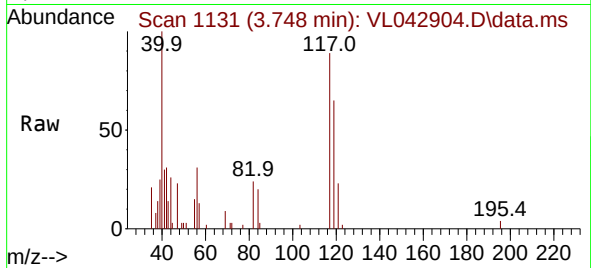
Tgt Ion:	43	Resp:	26086
Ion Ratio	Lower	Upper	
43	100		
72	25.2	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.179 ppbv m
RT: 3.748 min Scan# 1138
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

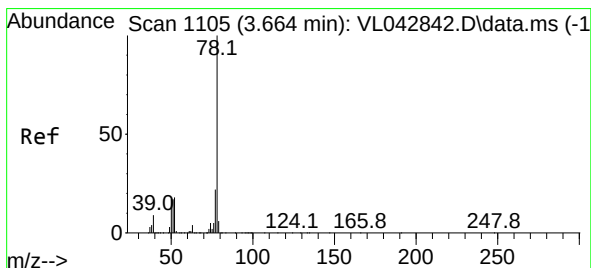
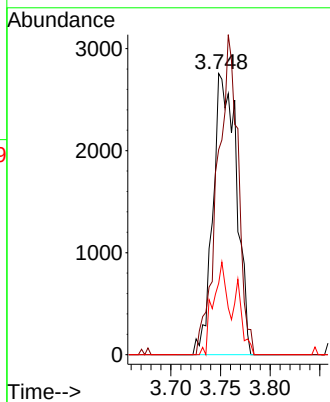
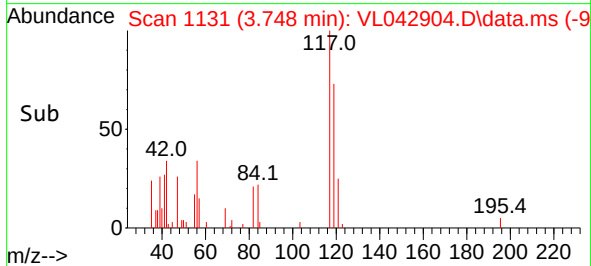
Instrument : MSVOA_L
ClientSampleId : IA-2



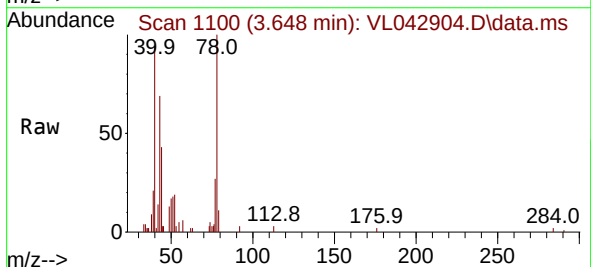
Tgt Ion: 117 Resp: 455
Ion Ratio Lower Upper
117 100
119 73.0 74.7 112.1
121 25.4 23.2 34.8

Manual Integrations
APPROVED

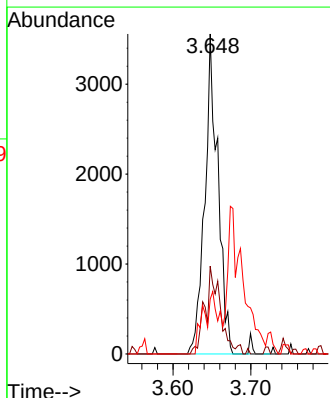
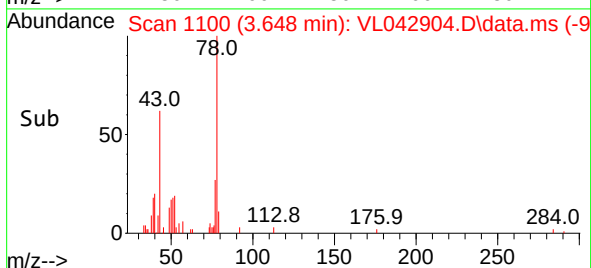
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

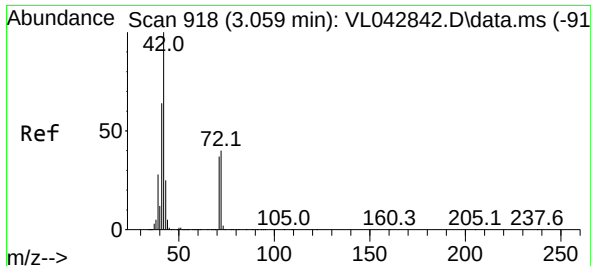


#36
Benzene
Concen: 0.120 ppbv m
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15



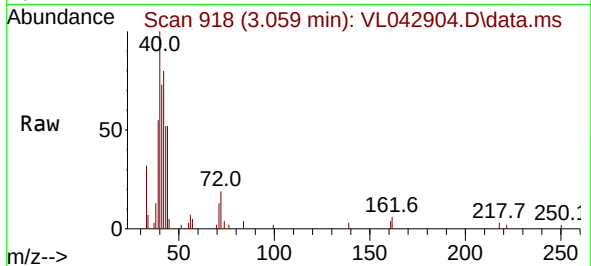
Tgt Ion: 78 Resp: 4228
Ion Ratio Lower Upper
78 100
77 27.5 17.7 26.5
50 17.1 13.9 20.9





#41
Tetrahydrofuran
Concen: 0.181 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

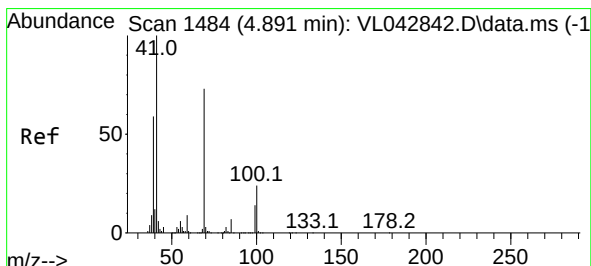
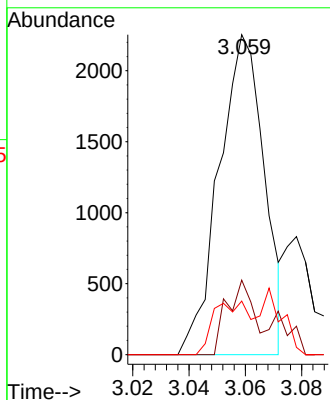
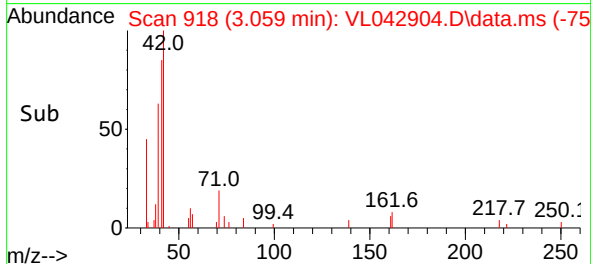
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 42 Resp: 2514
Ion Ratio Lower Upper
42 100
72 19.8 32.6 48.8
71 0.0 30.0 45.0

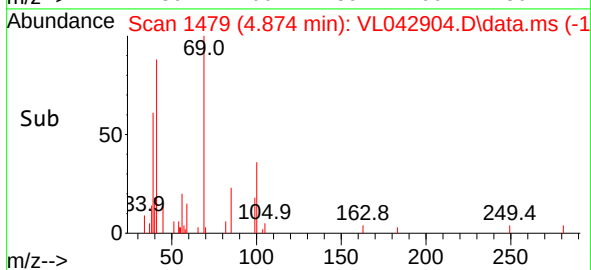
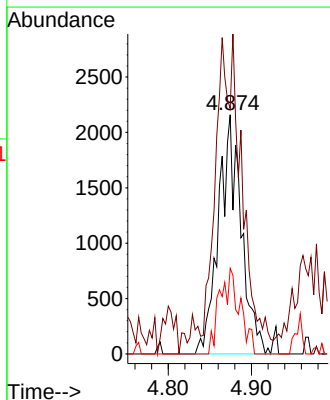
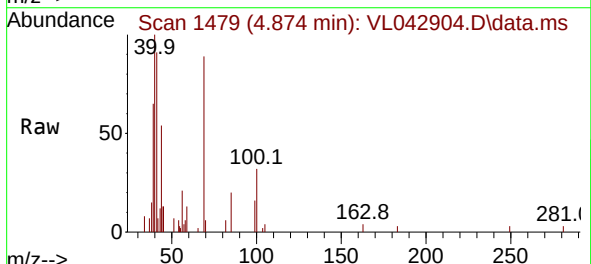
Manual Integrations
APPROVED

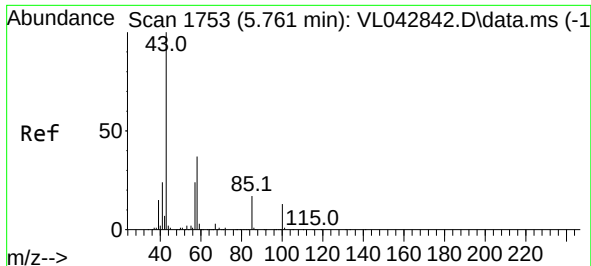
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#43
Methyl Methacrylate
Concen: 0.285 ppbv m
RT: 4.874 min Scan# 1479
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

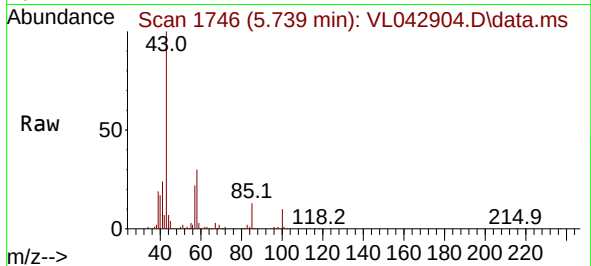
Tgt Ion: 69 Resp: 4146
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 31.1 30.2 45.4





#50
4-Methyl-2-Pentanone
Concen: 2.170 ppbv
RT: 5.739 min Scan# 1746
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

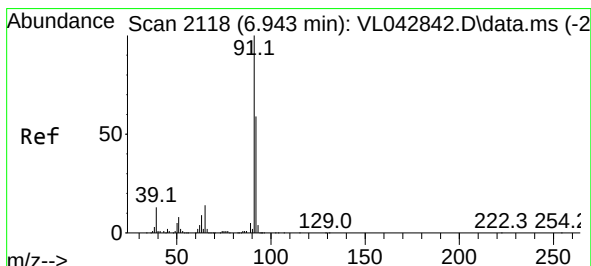
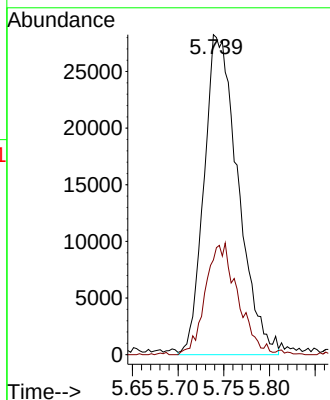
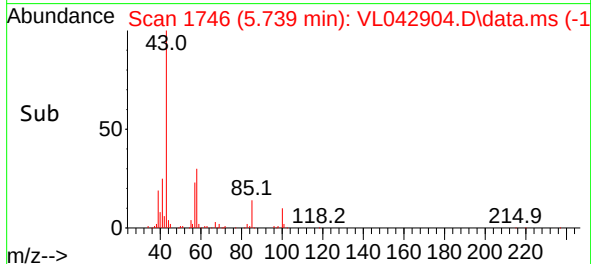
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 43 Resp: 72979
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8

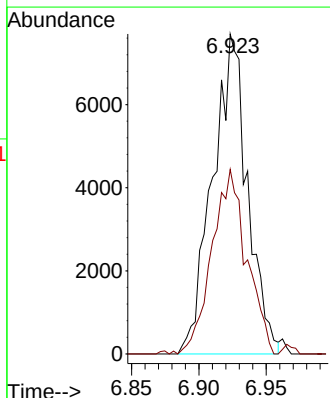
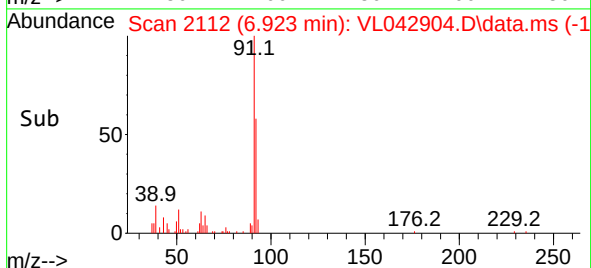
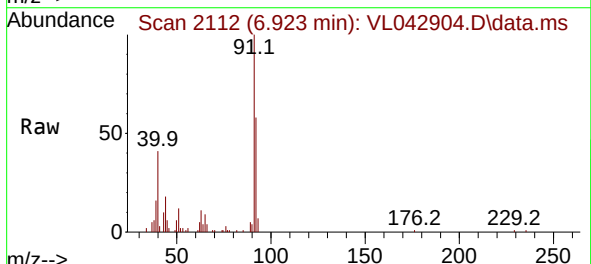
Manual Integrations
APPROVED

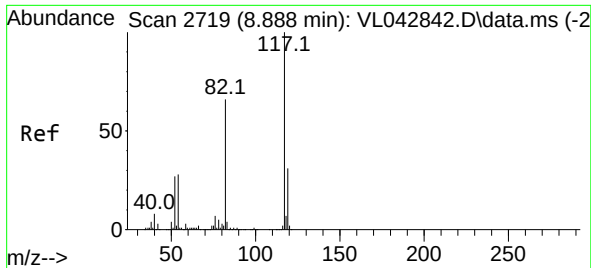
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#53
Toluene
Concen: 0.331 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 13909
Ion Ratio Lower Upper
91 100
92 58.3 47.8 71.6





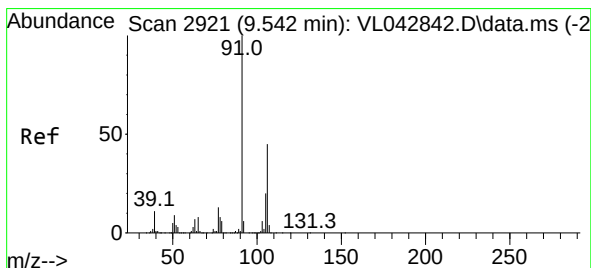
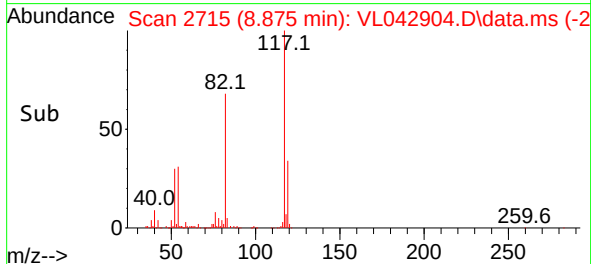
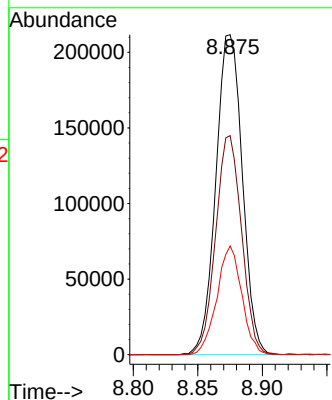
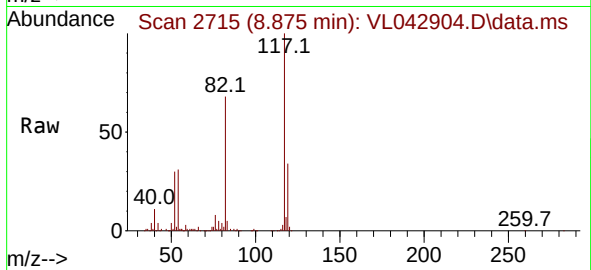
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:117 Resp: 302210
Ion Ratio Lower Upper
117 100
82 67.0 54.6 81.8
119 32.0 25.9 38.9

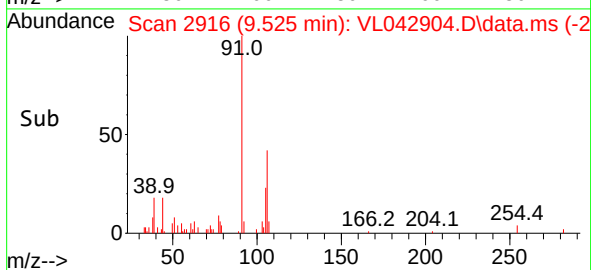
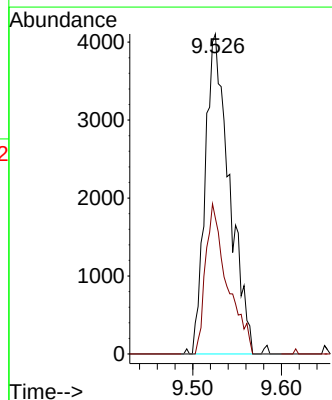
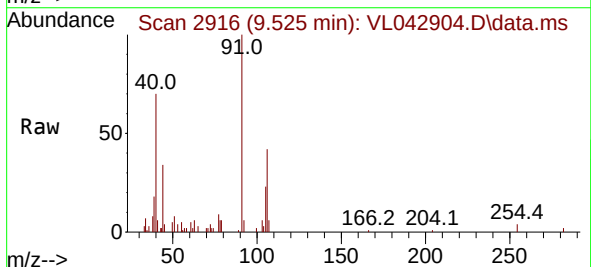
Manual Integrations
APPROVED

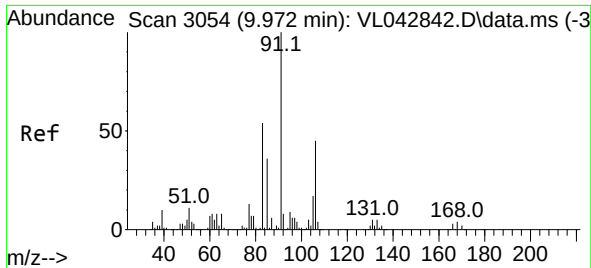
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#59
m/p-Xylene
Concen: 0.186 ppbv m
RT: 9.525 min Scan# 2916
Delta R.T. -0.013 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

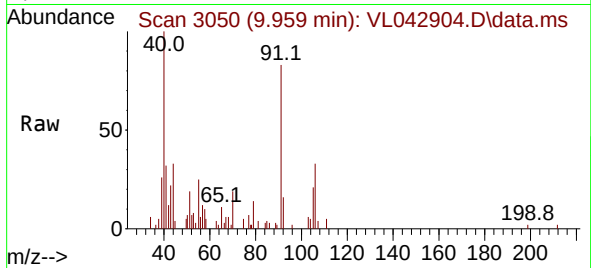
Tgt Ion: 91 Resp: 7779
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

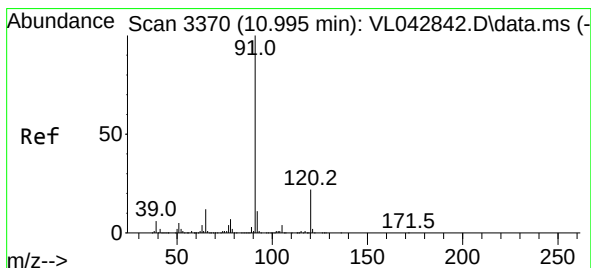
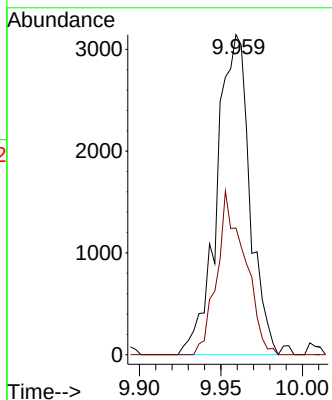
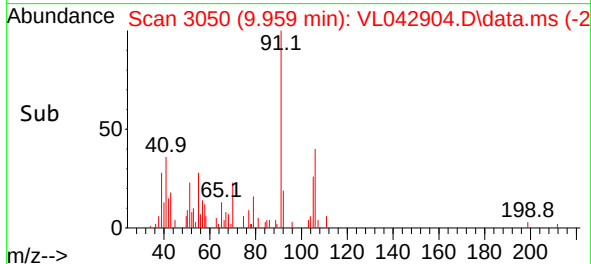
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 91 Resp: 4398
Ion Ratio Lower Upper
91 100
106 43.3 21.8 65.4

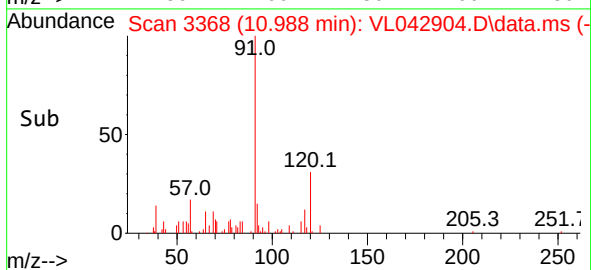
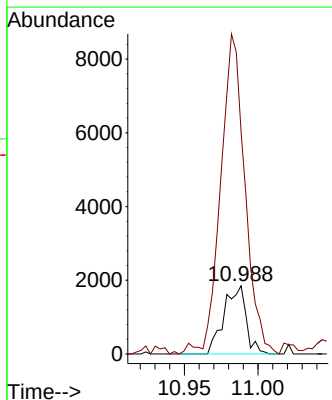
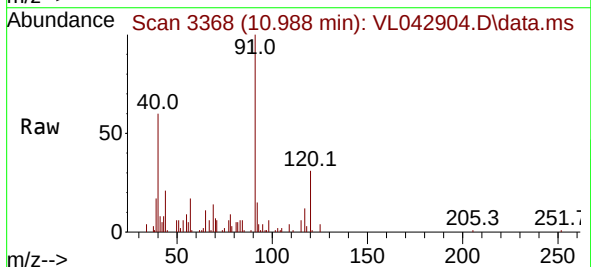
Manual Integrations
APPROVED

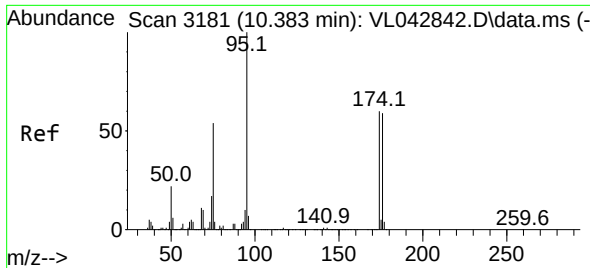
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#64
n-propylbenzene
Concen: 0.123 ppbv m
RT: 10.988 min Scan# 3368
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:120 Resp: 1936
Ion Ratio Lower Upper
120 100
91 0.0 375.8 563.6#





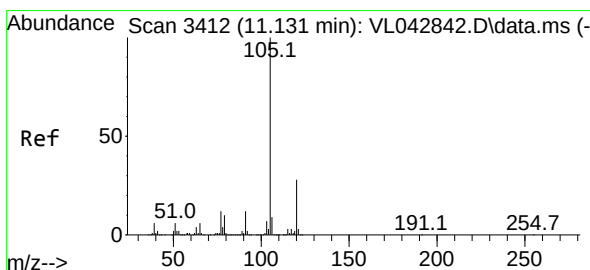
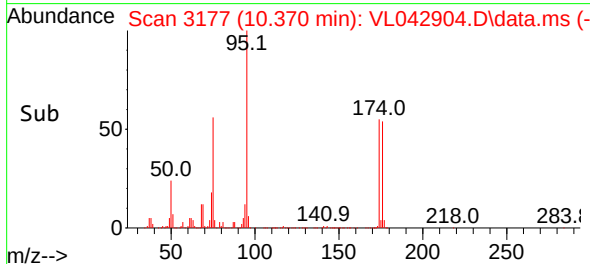
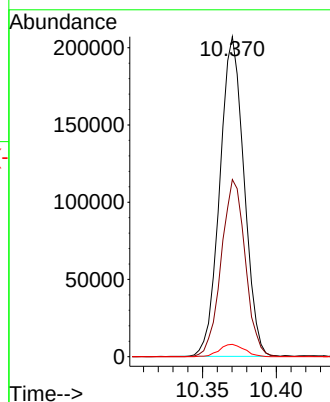
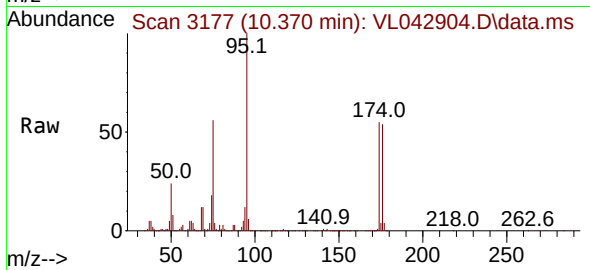
#68
1-Bromo-4-Fluorobenzene
Concen: 10.432 ppbv
RT: 10.370 min Scan# 3181
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 95 Resp: 236452
Ion Ratio Lower Upper
95 100
174 55.3 48.4 72.6
175 4.0 3.8 5.8

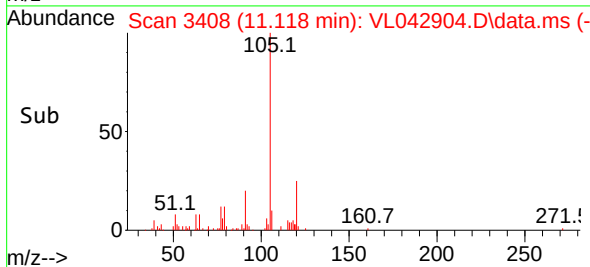
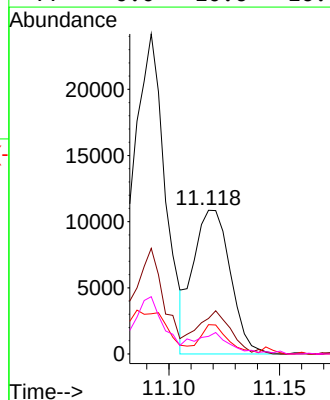
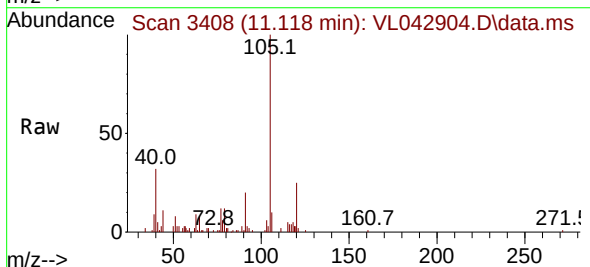
Manual Integrations
APPROVED

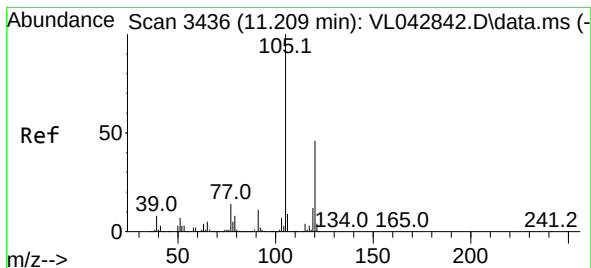
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#72
4-Ethyltoluene
Concen: 0.249 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 12697
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 14.1 9.8 14.6
77 0.0 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.320 ppbv

RT: 11.199 min Scan# 3436

Delta R.T. 0.003 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion:105 Resp: 1389

Ion Ratio Lower Upper

105 100

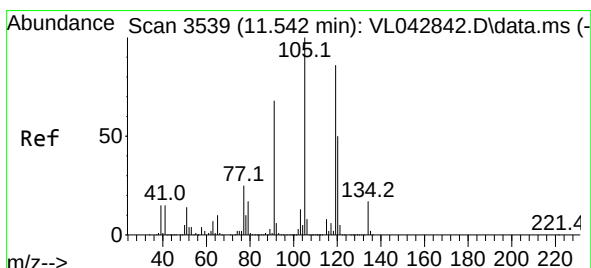
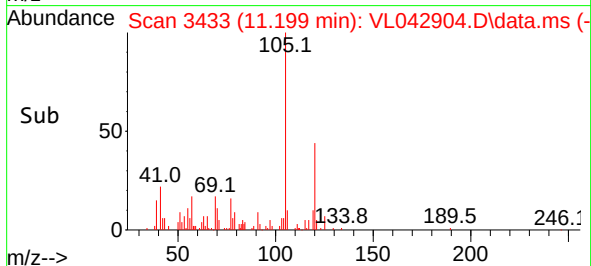
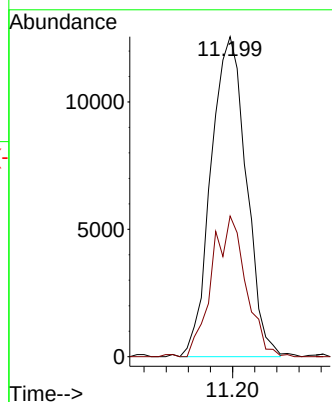
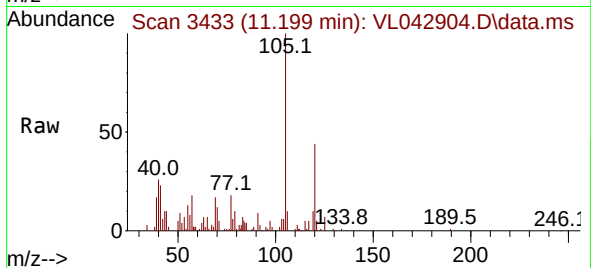
120 44.0 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.133 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 53900

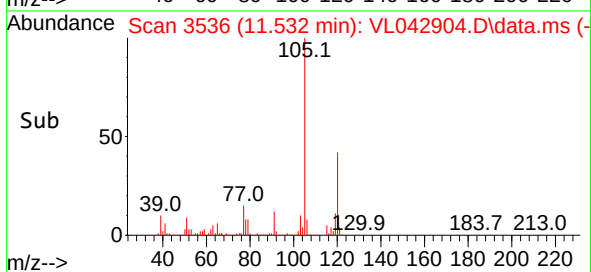
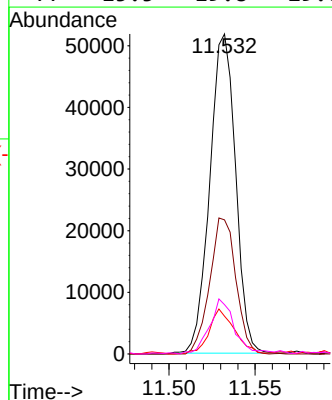
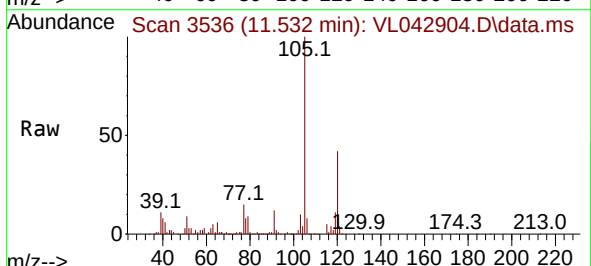
Ion Ratio Lower Upper

105 100

120 42.0 39.8 59.6

91 11.6 54.2 81.4#

77 15.5 19.8 29.6#





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)		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)		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)		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)		n-propylbenzene		0.570	0.528	0.549	0.475	0.472	0.519	8.47
65)		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)		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)		p-Isopropyltol...		2.338	2.372	2.328	1.905	1.856	2.160	11.85
70)		n-Butylbenzene		2.234	2.303	2.333	1.927	1.915	2.142	9.58
71)		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

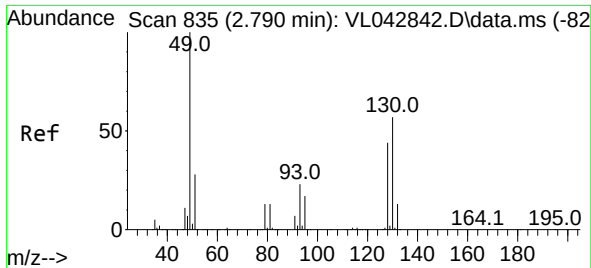
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

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

Response via : Initial Calibration

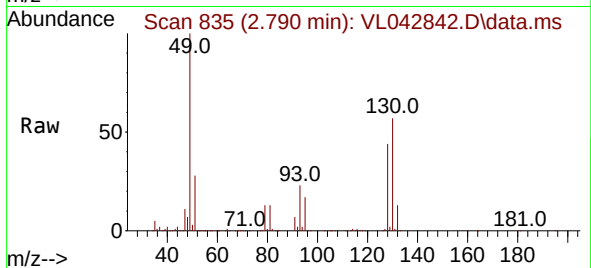
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	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

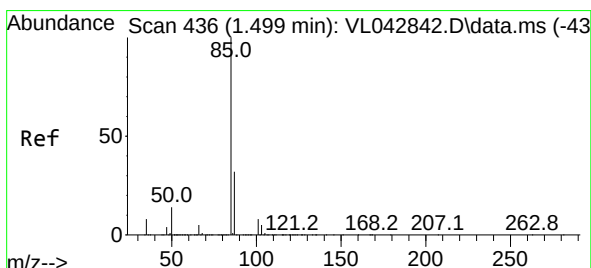
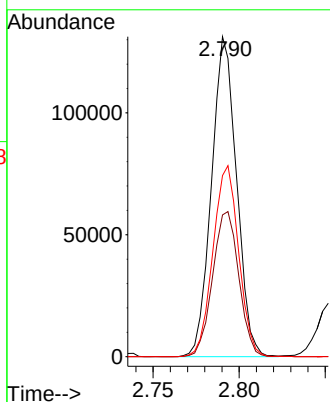
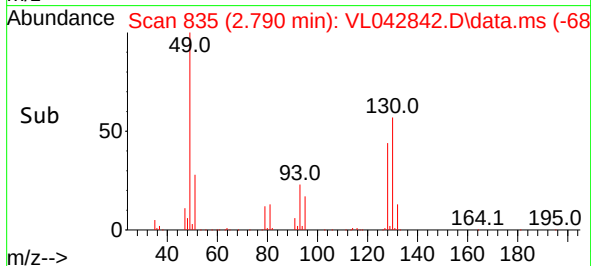
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

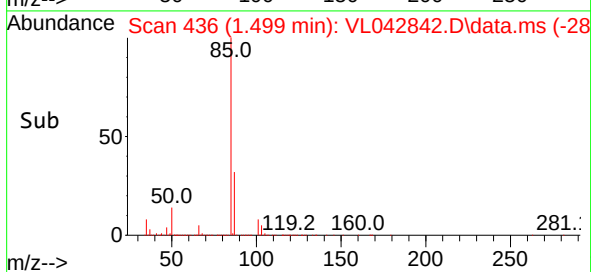
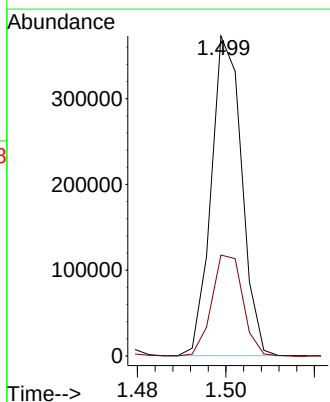
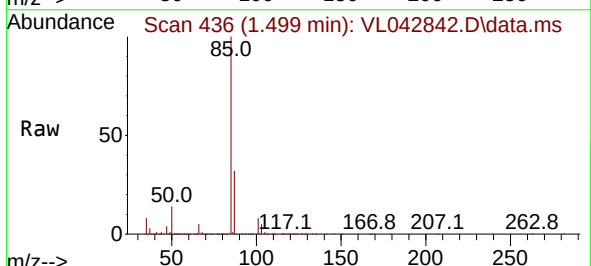
Manual Integrations
APPROVED

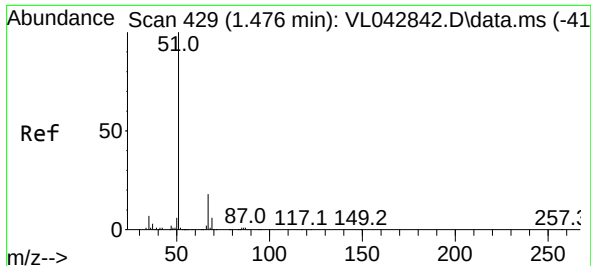
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

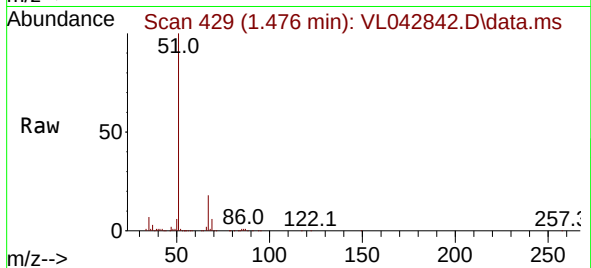
Tgt Ion: 85 Resp: 178799
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





#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

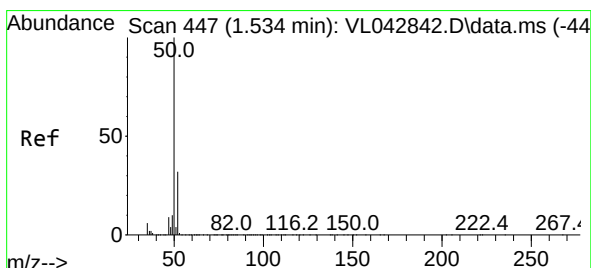
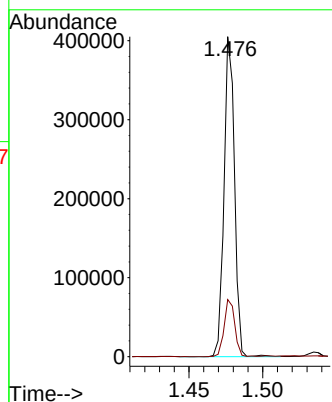
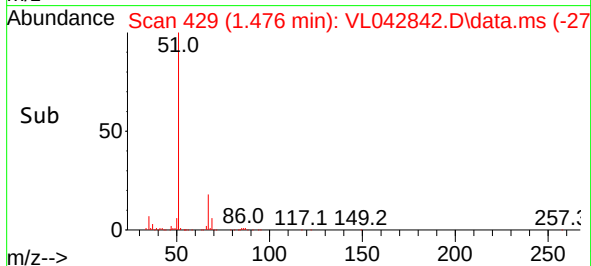
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



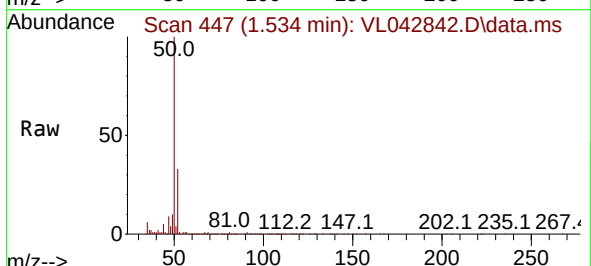
Tgt Ion: 51 Resp: 200860
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3

Manual Integrations
APPROVED

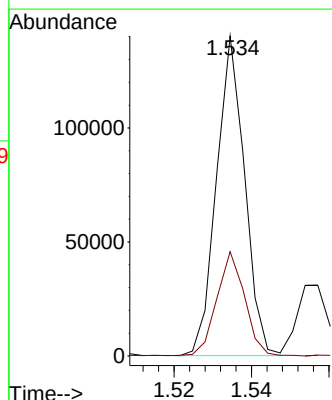
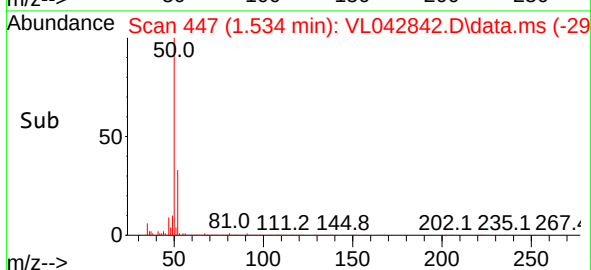
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

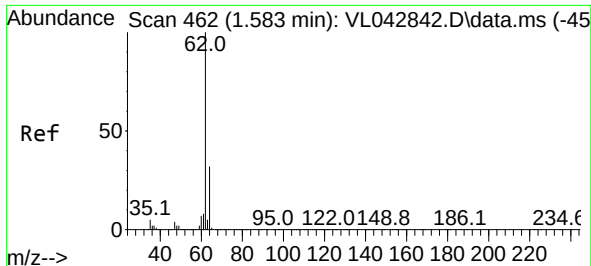


#4
Chloromethane
Concen: 9.013 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



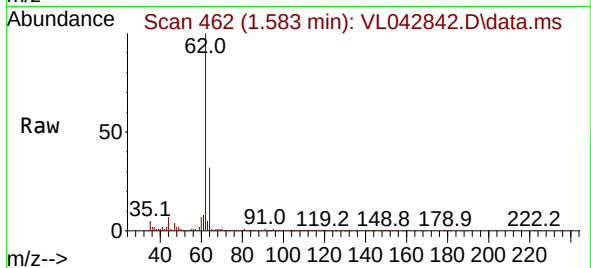
Tgt Ion: 50 Resp: 70952
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#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

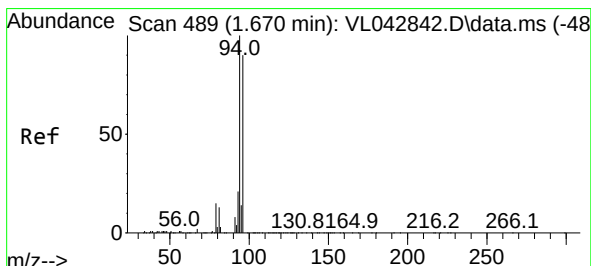
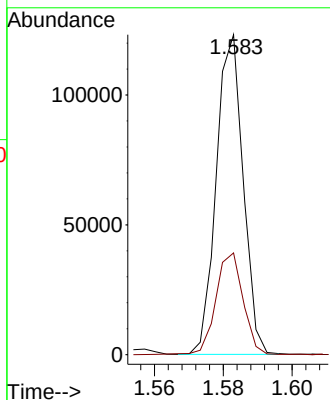
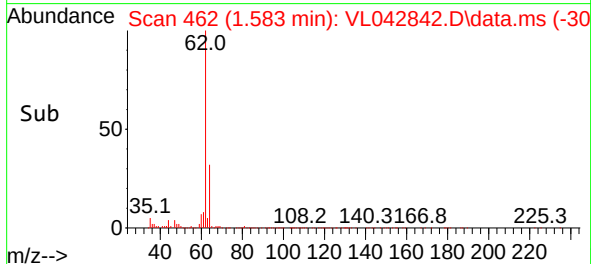
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



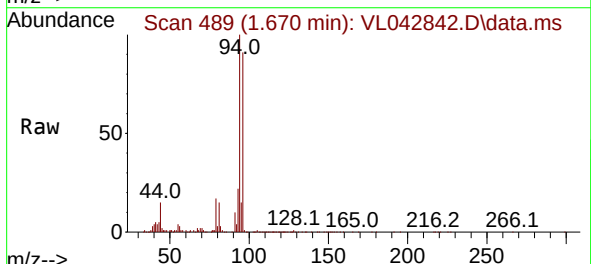
Tgt Ion: 62 Resp: 66768
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

Manual Integrations
 APPROVED

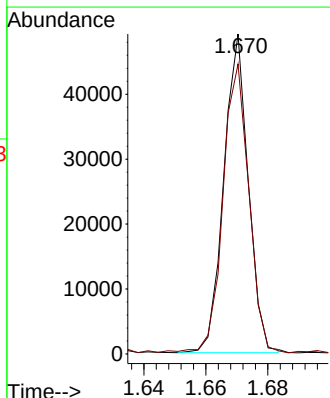
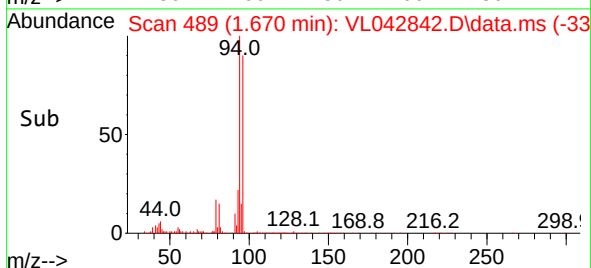
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

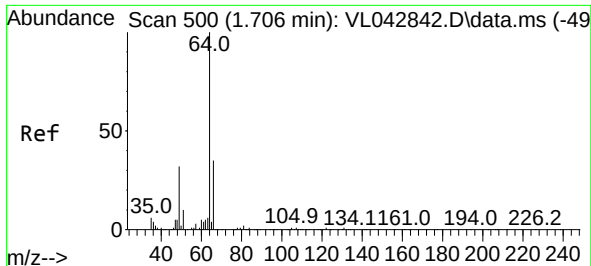


#6
 Bromomethane
 Concen: 8.698 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



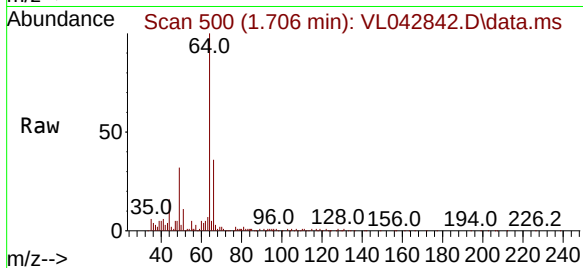
Tgt Ion: 94 Resp: 26964
 Ion Ratio Lower Upper
 94 100
 96 90.1 72.1 108.1





#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

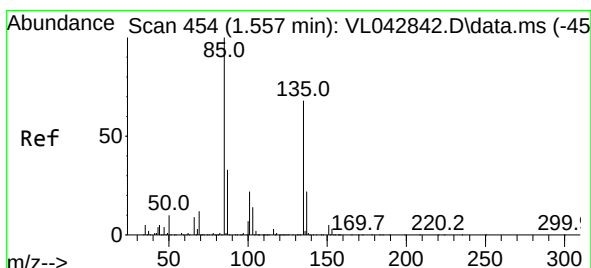
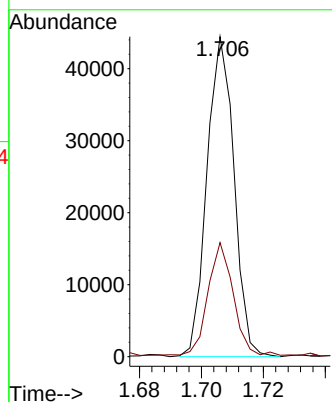
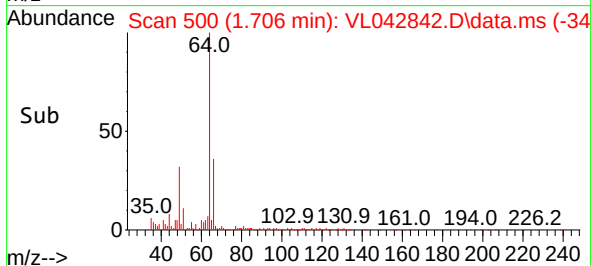
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



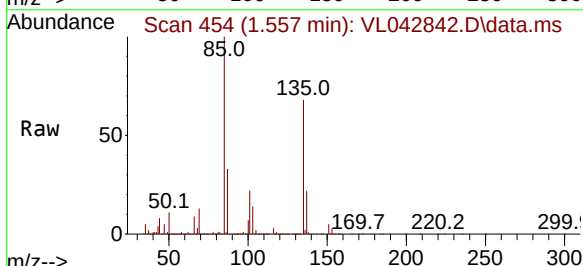
Tgt Ion: 64 Resp: 26884
Ion Ratio Lower Upper
64 100
66 35.7 28.6 42.8

Manual Integrations
APPROVED

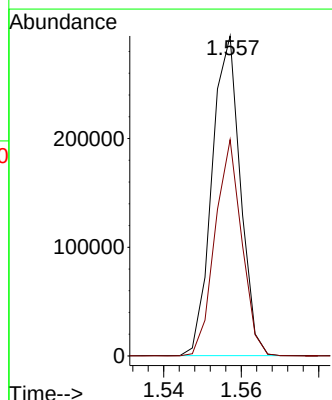
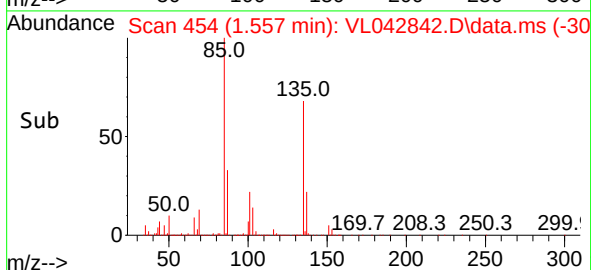
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

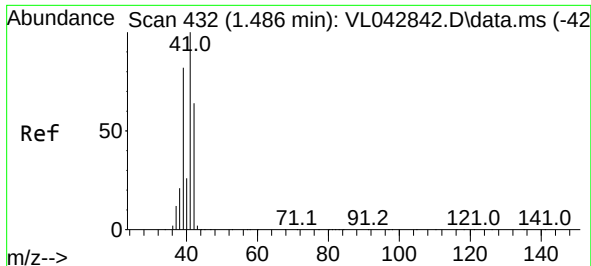


#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



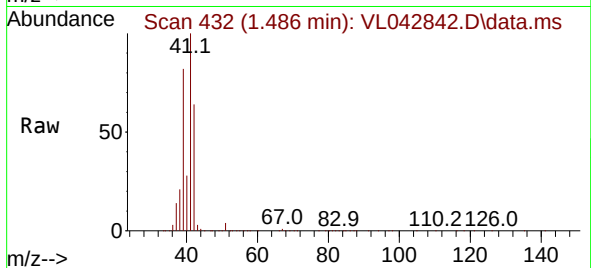
Tgt Ion: 85 Resp: 149341
Ion Ratio Lower Upper
85 100
135 64.0 51.2 76.8





#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

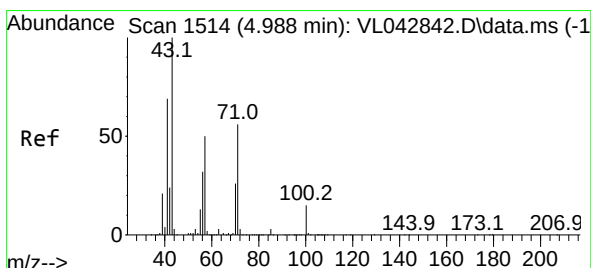
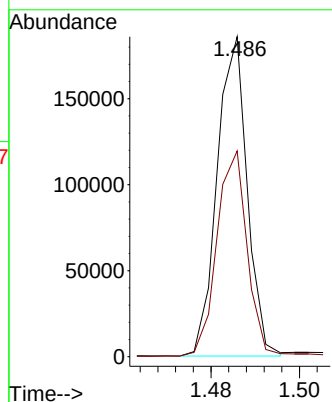
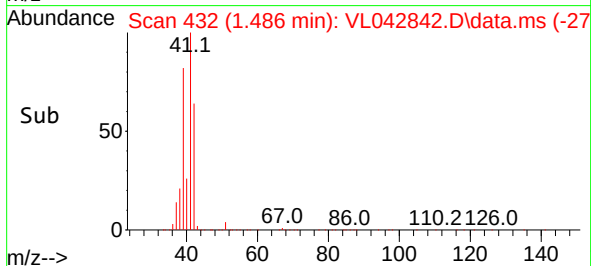
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



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

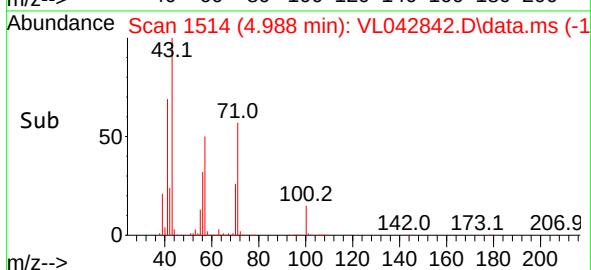
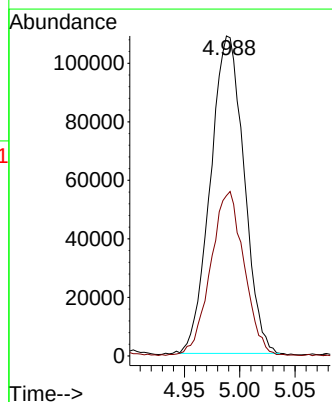
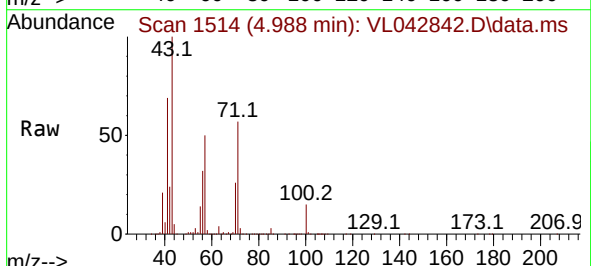
Manual Integrations
 APPROVED

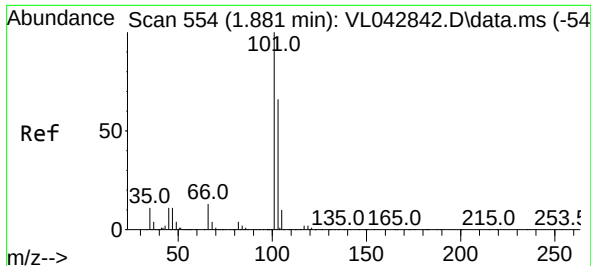
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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





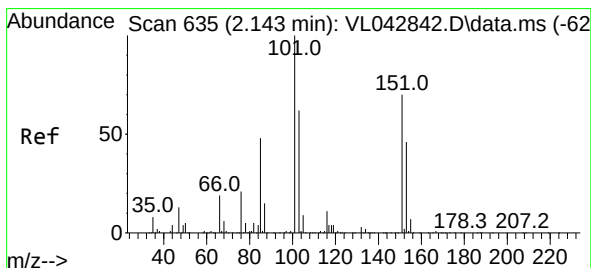
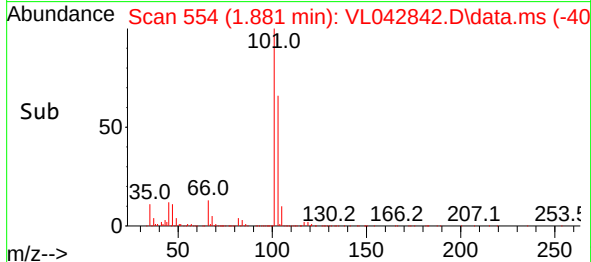
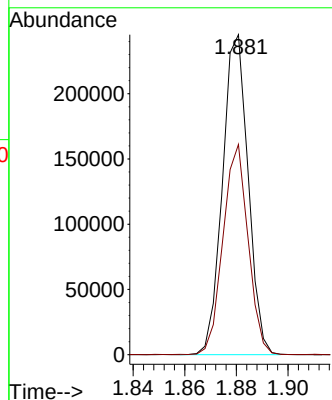
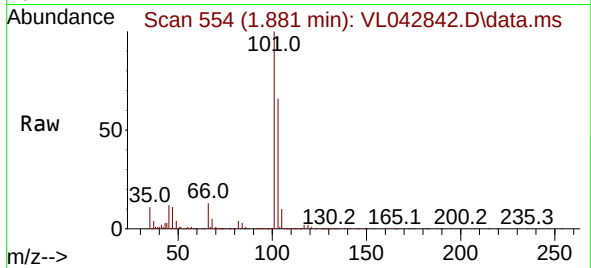
#11
Trichlorofluoromethane
Concen: 8.789 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

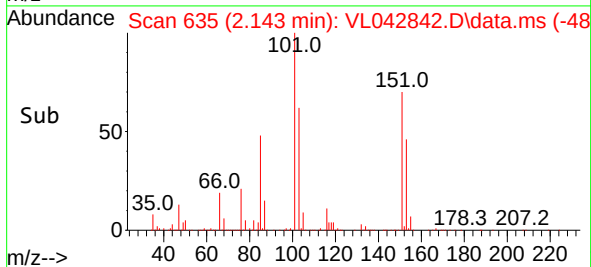
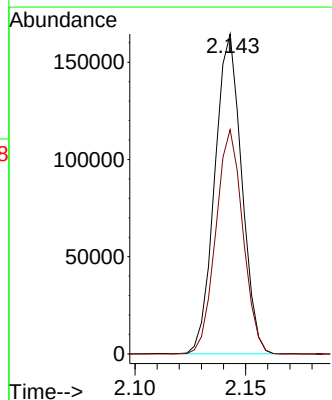
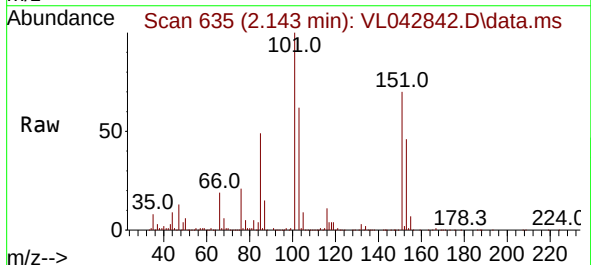
Manual Integrations
APPROVED

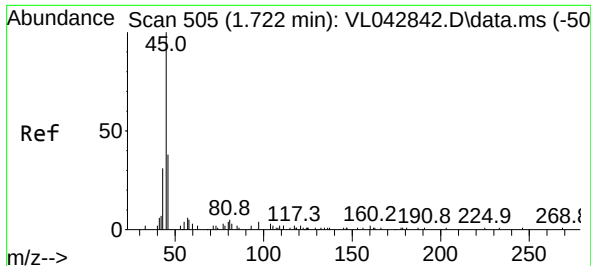
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

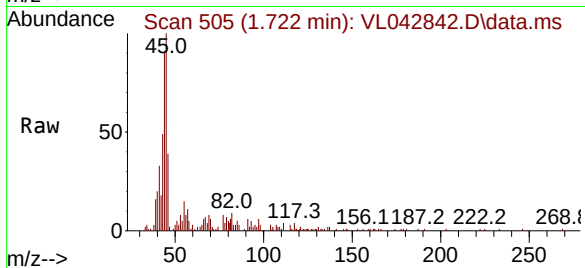
Tgt Ion:101 Resp: 139340
Ion Ratio Lower Upper
101 100
151 70.5 56.4 84.6





#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

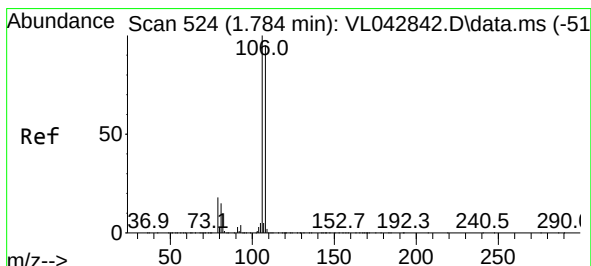
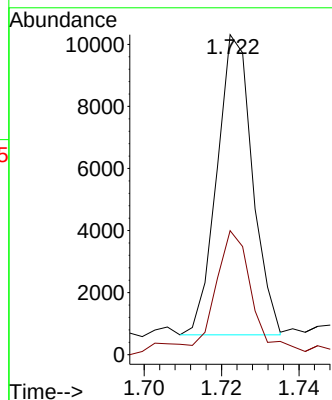
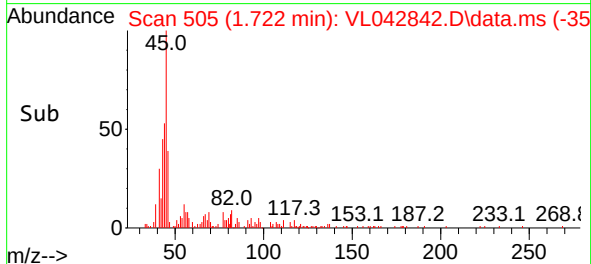
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



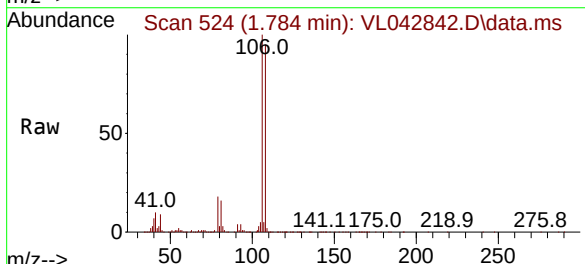
Tgt Ion: 45 Resp: 6172
Ion Ratio Lower Upper
45 100
46 43.7 17.5 69.9

Manual Integrations
APPROVED

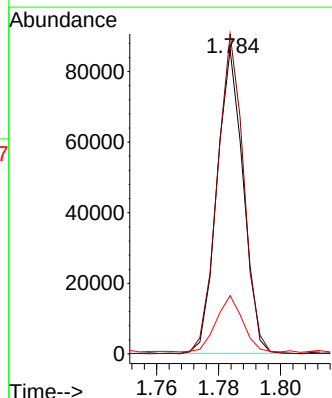
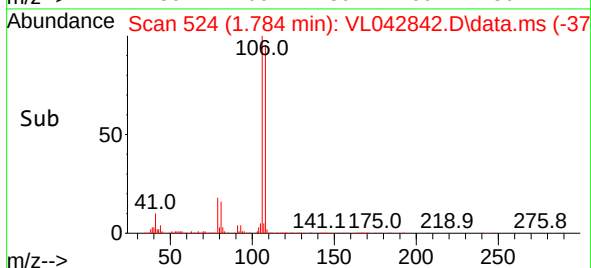
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

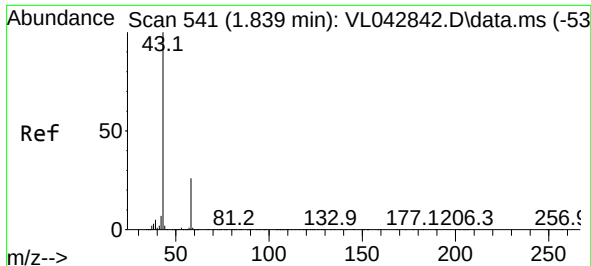


#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



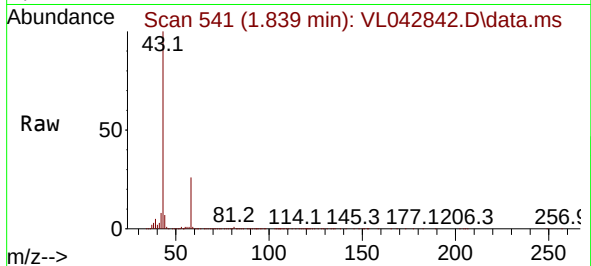
Tgt Ion:108 Resp: 50730
Ion Ratio Lower Upper
108 100
106 106.4 85.1 127.7
79 20.4 16.3 24.5





#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

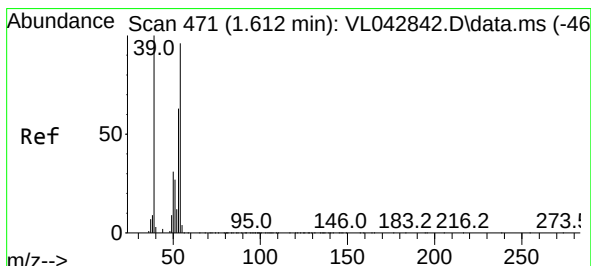
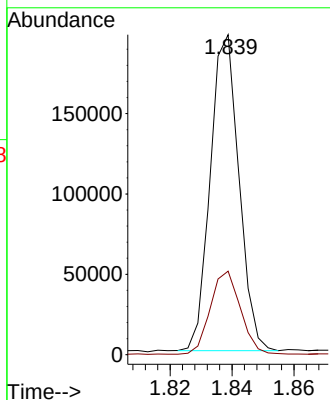
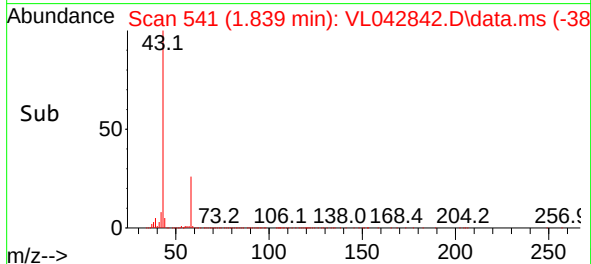
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



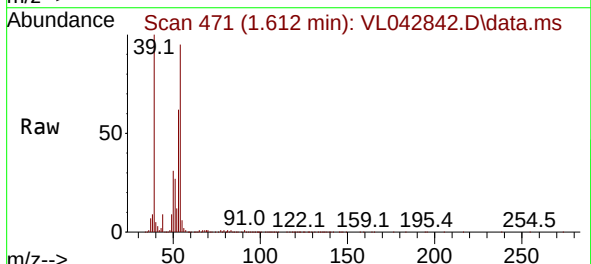
Tgt Ion: 43 Resp: 126419
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

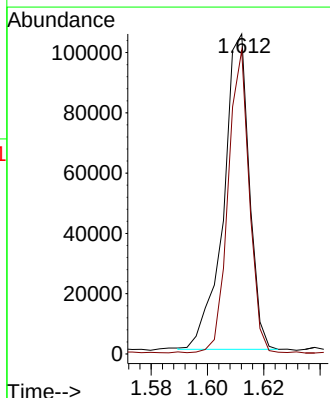
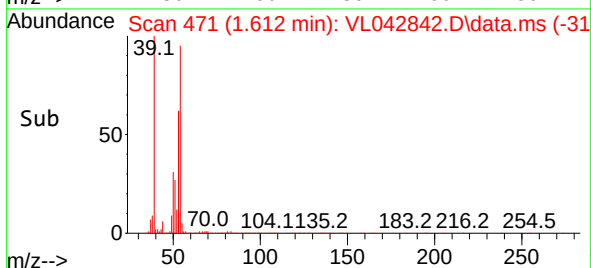
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

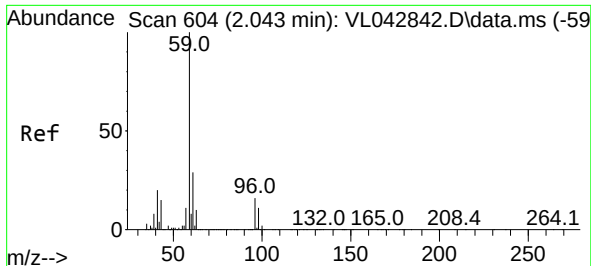


#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



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





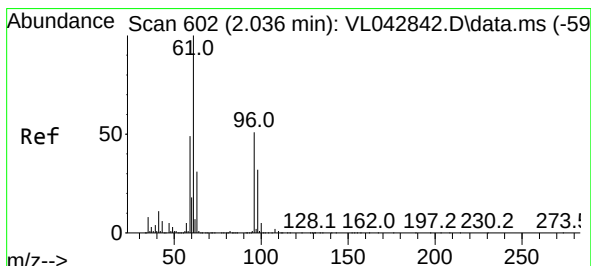
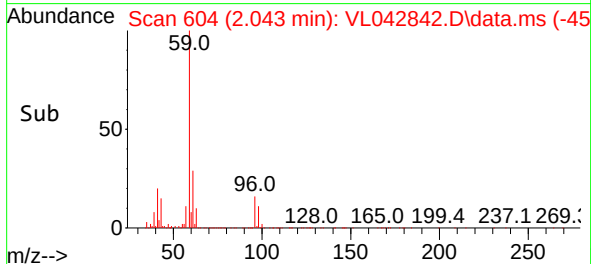
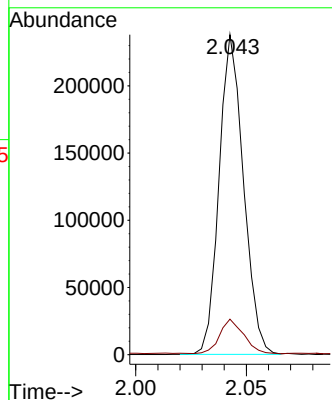
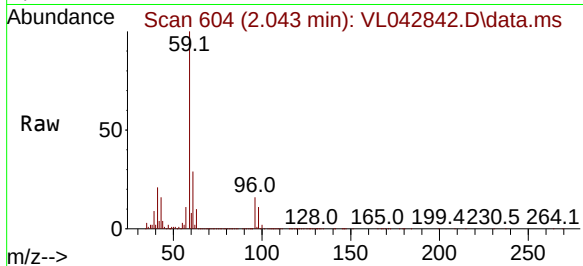
#17
tert-Butyl alcohol
Concen: 8.741 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

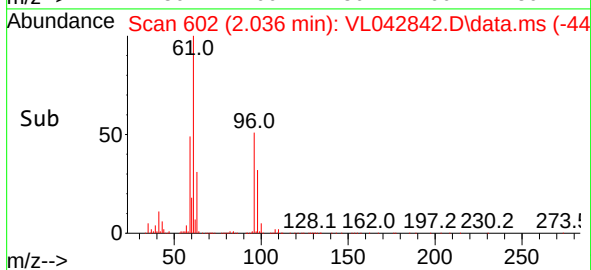
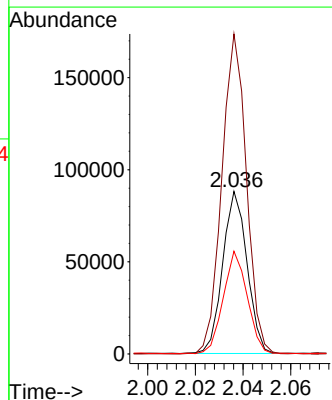
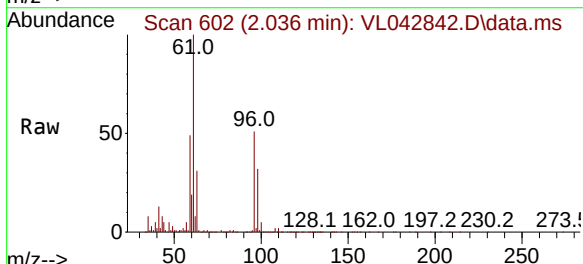
Manual Integrations
APPROVED

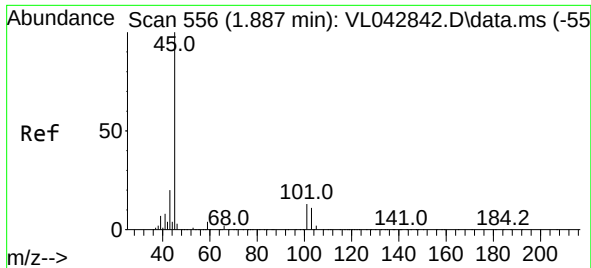
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





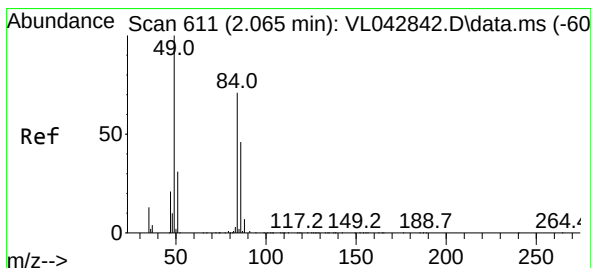
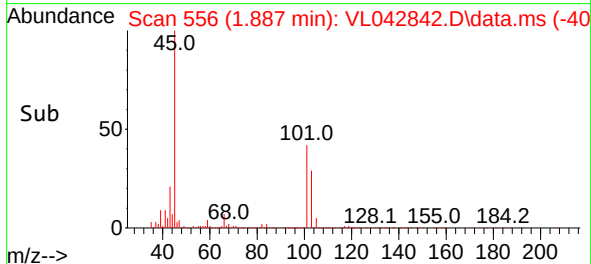
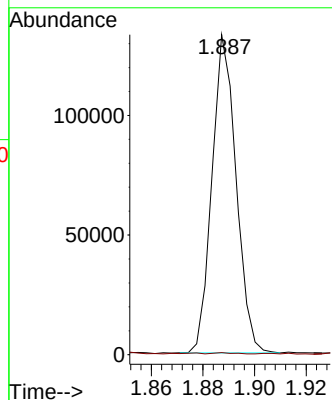
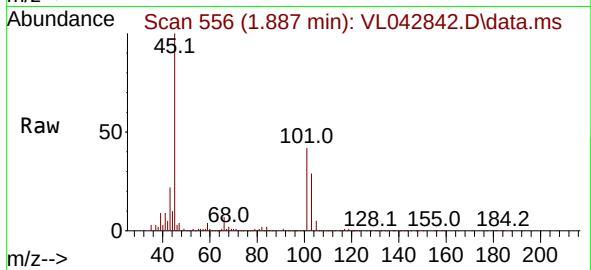
#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

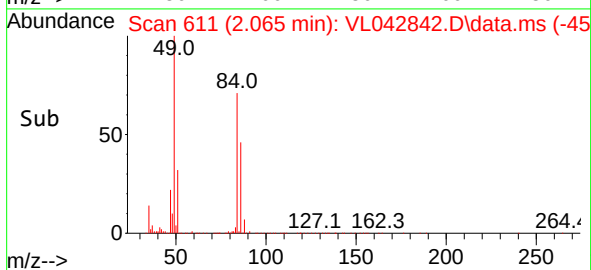
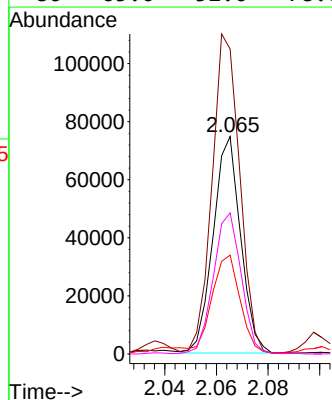
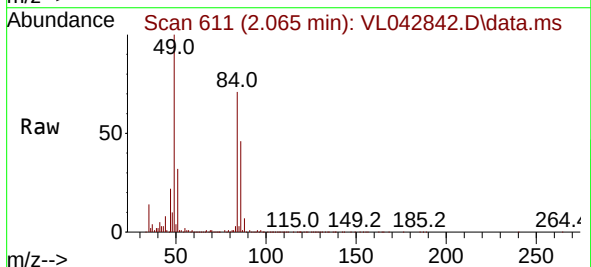
Manual Integrations
APPROVED

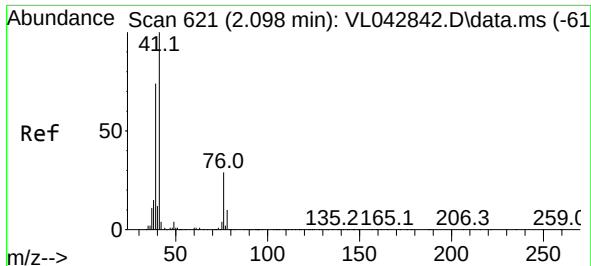
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

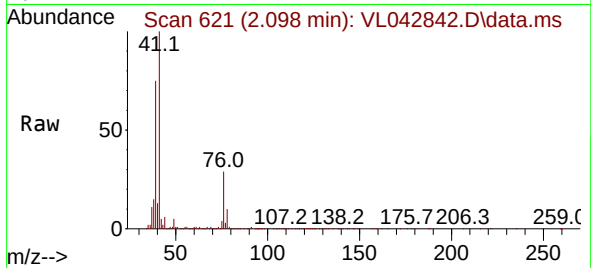
Tgt Ion: 84 Resp: 55107
Ion Ratio Lower Upper
84 100
49 140.4 112.3 168.5
51 45.0 36.0 54.0
86 65.0 52.0 78.0





#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

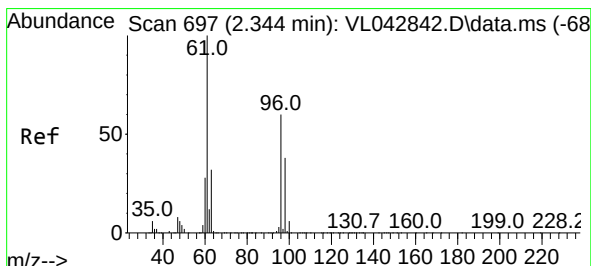
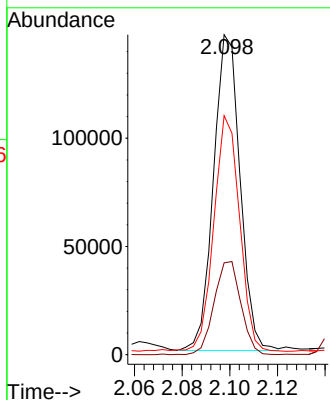
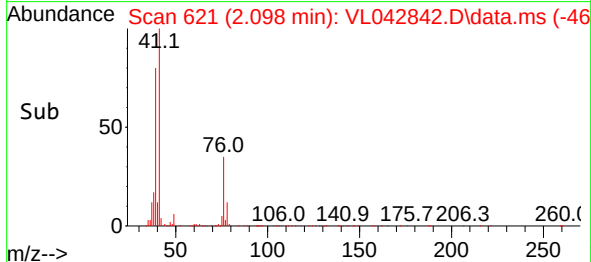
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



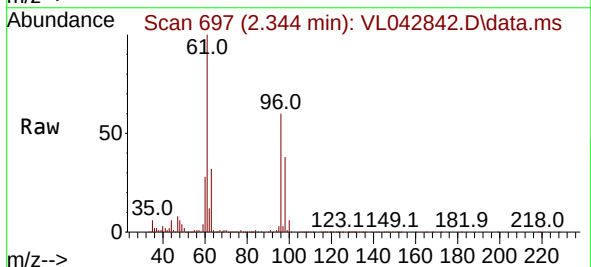
Tgt Ion: 41 Resp: 11310
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.9 35.9
 39 72.2 57.8 86.6

Manual Integrations
 APPROVED

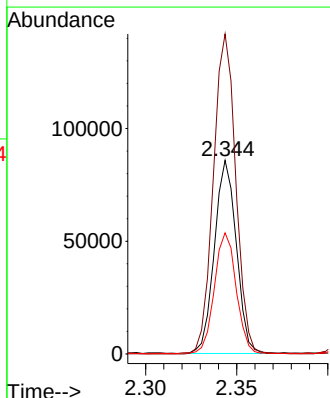
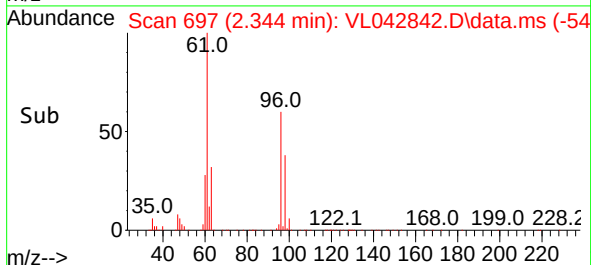
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

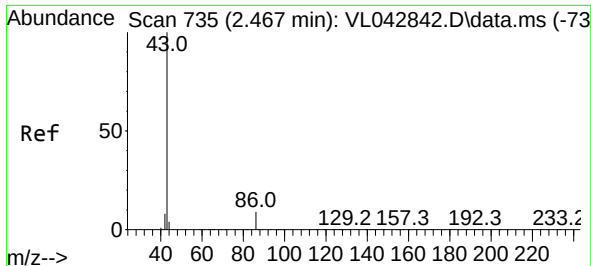


#22
 trans-1,2-Dichloroethene
 Concen: 9.482 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



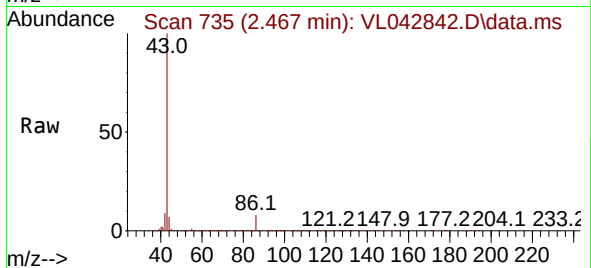
Tgt Ion: 96 Resp: 71518
 Ion Ratio Lower Upper
 96 100
 61 165.8 132.6 199.0
 98 62.5 50.0 75.0





#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

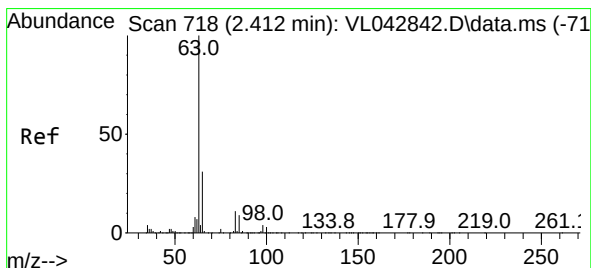
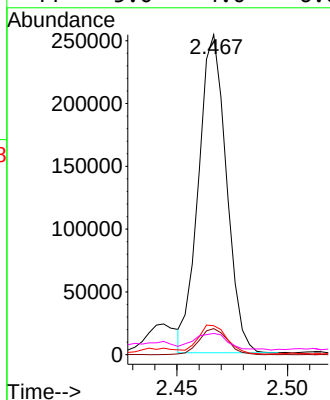
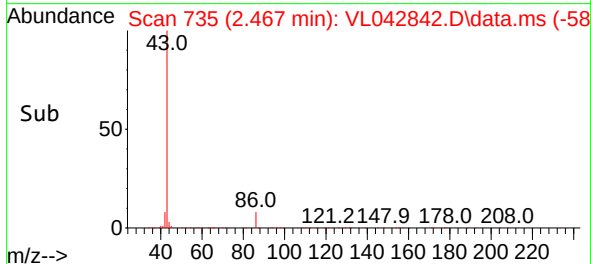
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



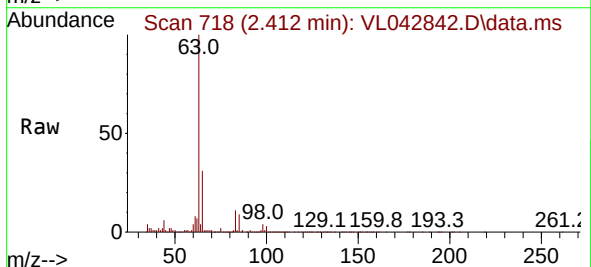
Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.8	7.0	10.6
44	5.0	4.0	6.0

Manual Integrations
 APPROVED

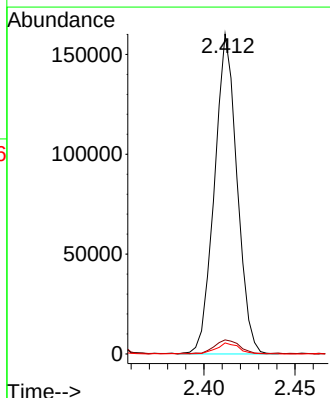
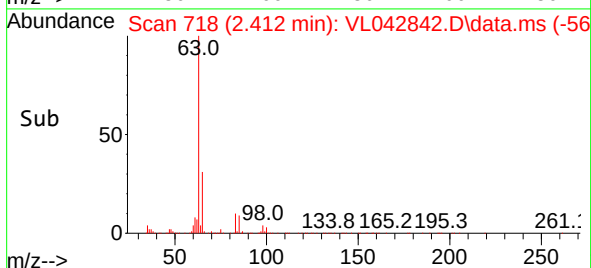
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

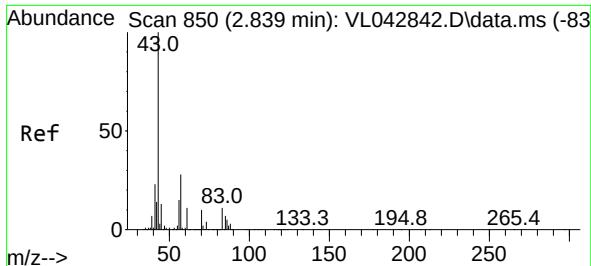


#24
 1,1-Dichloroethane
 Concen: 8.885 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



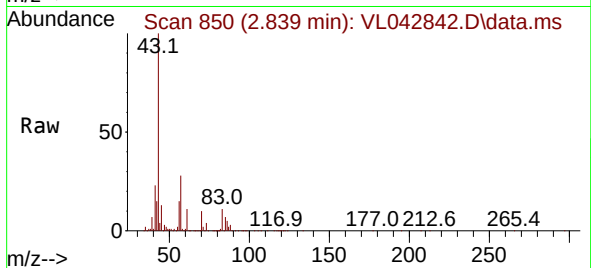
Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	3.4	1.7	5.1





#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

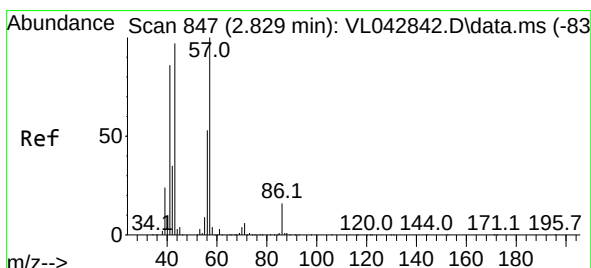
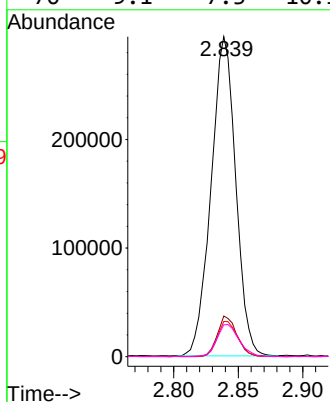
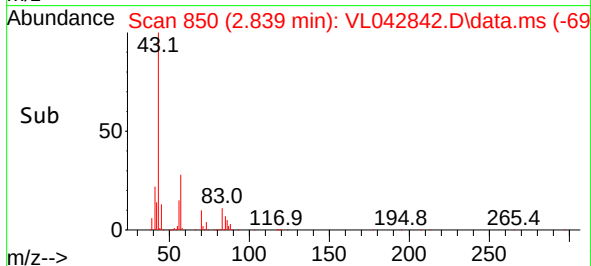
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:	43	Resp:	39029
Ion	Ratio	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

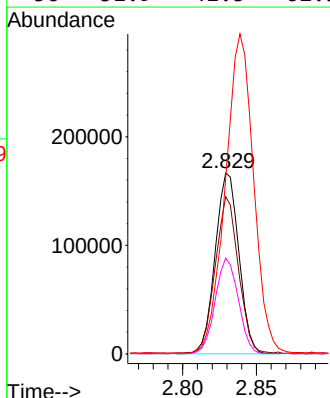
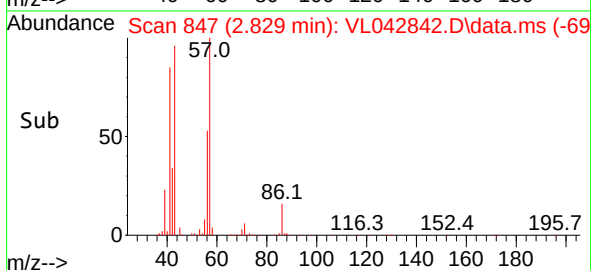
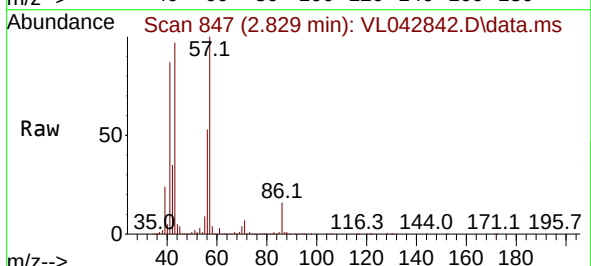
Manual Integrations
APPROVED

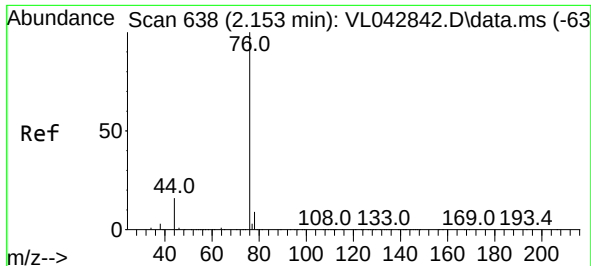
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

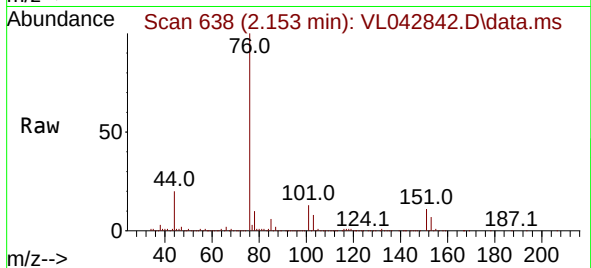
Tgt Ion:	57	Resp:	185288
Ion	Ratio	Lower	Upper
57	100		
41	85.8	68.6	103.0
43	210.6	168.5	252.7
56	51.9	41.5	62.3





#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

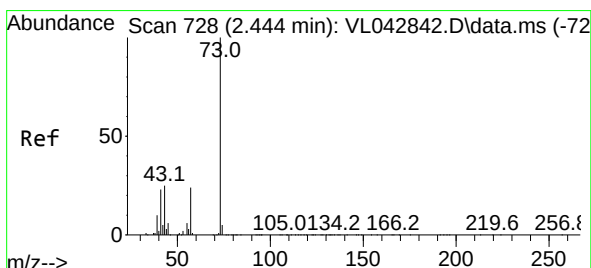
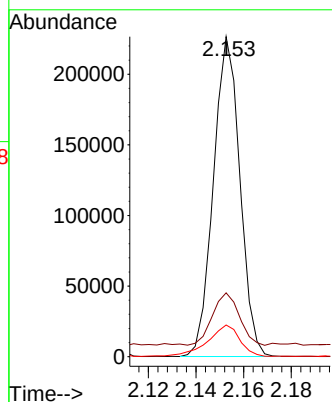
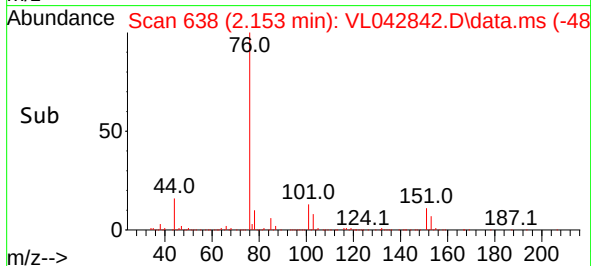
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



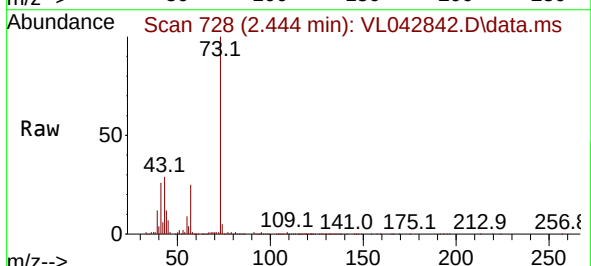
Tgt Ion: 76 Resp: 174928
Ion Ratio Lower Upper
76 100
44 19.9 15.9 23.9
78 11.9 9.5 14.3

Manual Integrations
APPROVED

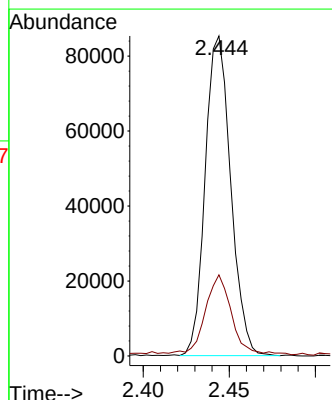
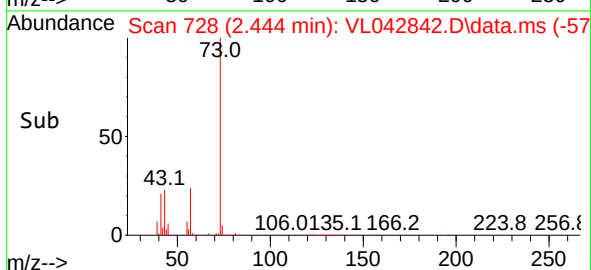
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

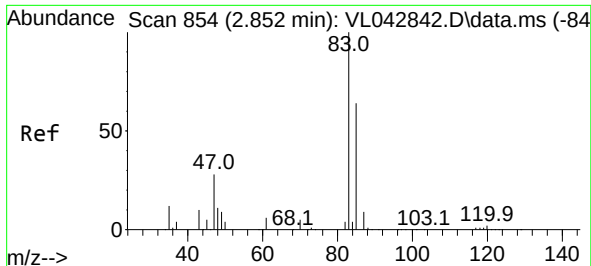


#28
Methyl tert-Butyl Ether
Concen: 8.767 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



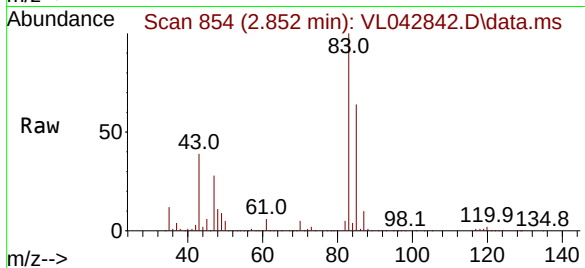
Tgt Ion: 73 Resp: 87929
Ion Ratio Lower Upper
73 100
57 27.0 21.6 32.4





#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

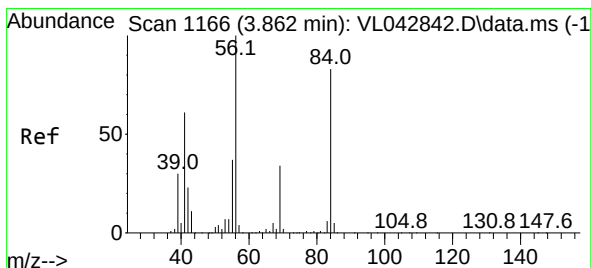
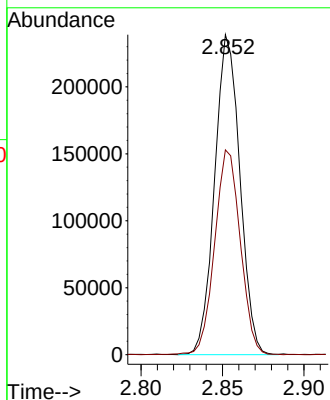
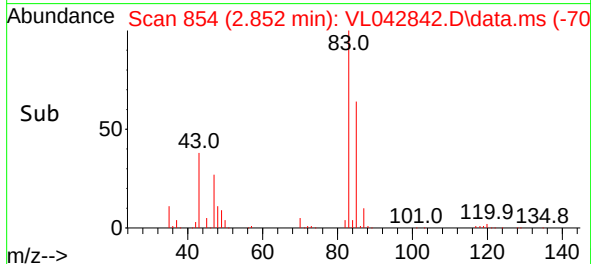
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

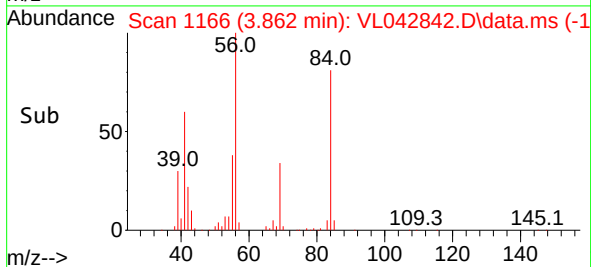
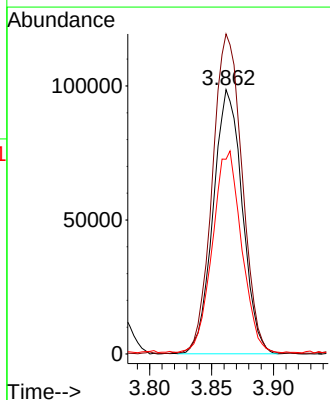
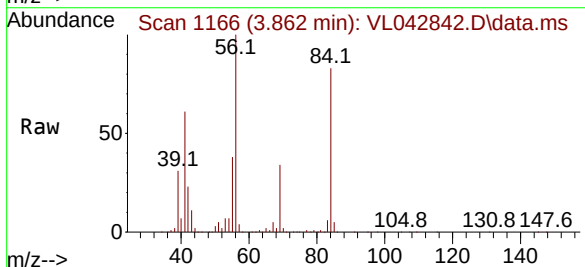
Manual Integrations
APPROVED

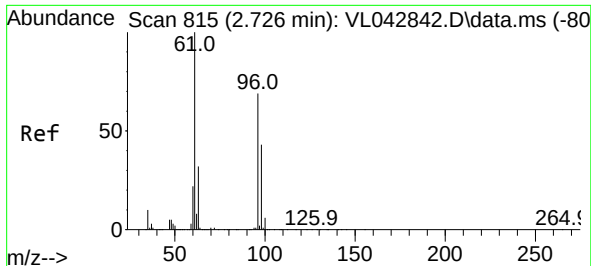
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

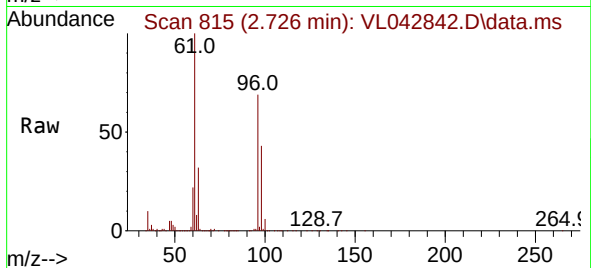
Tgt Ion: 84 Resp: 161540
Ion Ratio Lower Upper
84 100
56 123.5 98.8 148.2
41 76.6 61.3 91.9





#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

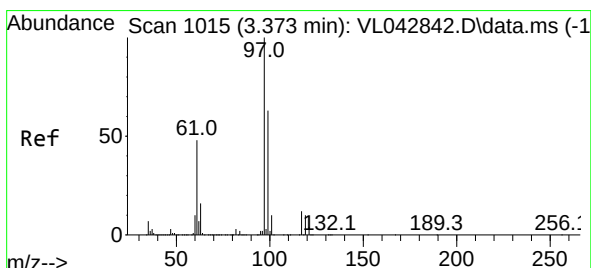
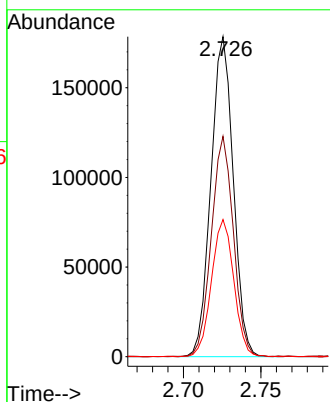
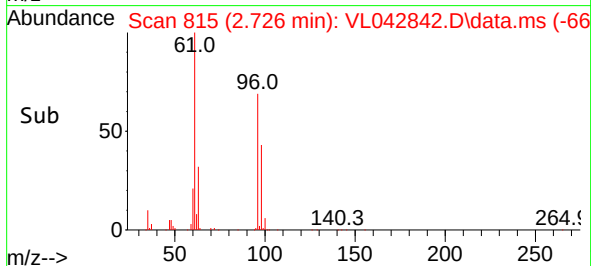
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



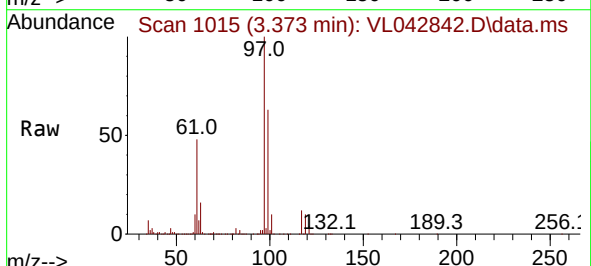
Tgt Ion: 61 Resp: 179162
 Ion Ratio Lower Upper
 61 100
 96 68.8 55.0 82.6
 98 42.9 34.3 51.5

Manual Integrations
 APPROVED

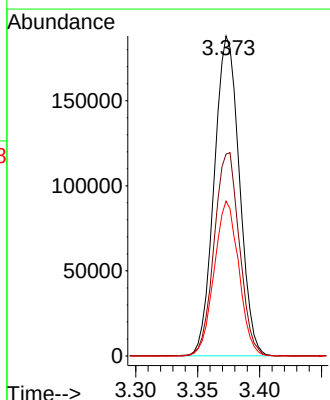
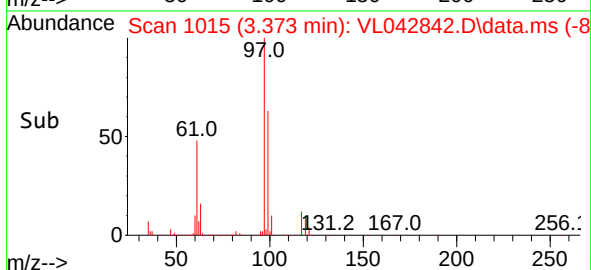
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

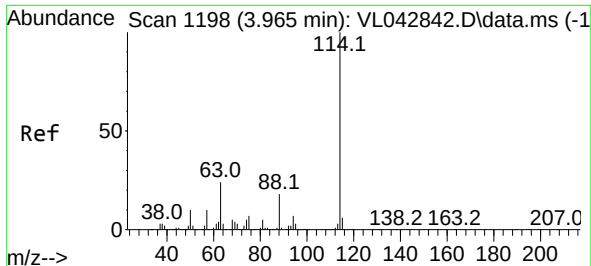


#32
 1,1,1-Trichloroethane
 Concen: 8.946 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



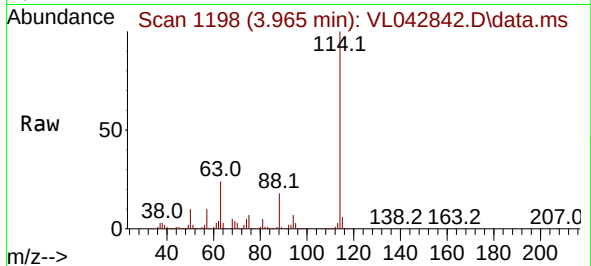
Tgt Ion: 97 Resp: 266021
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 47.5 38.0 57.0





#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

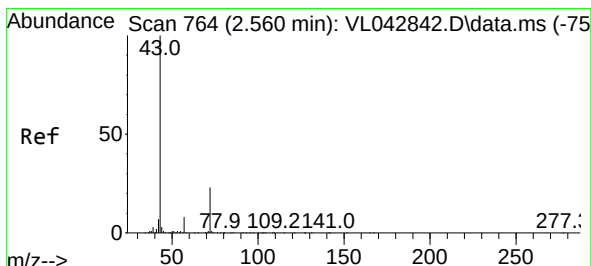
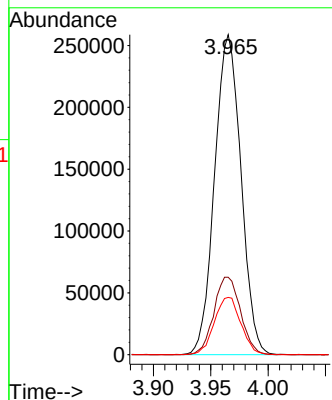
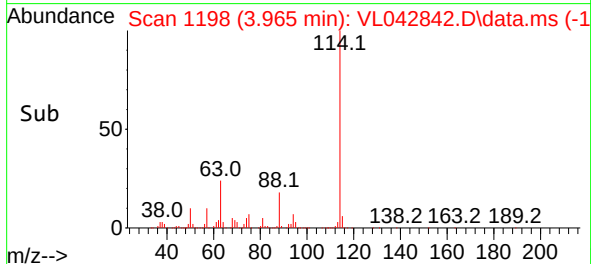
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



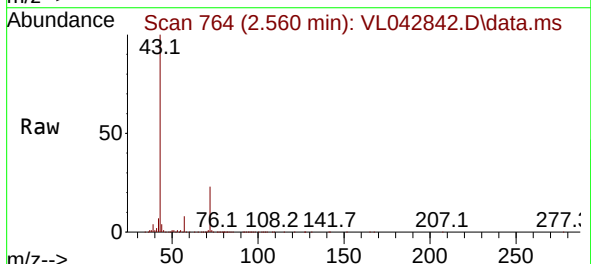
Tgt Ion:114 Resp: 413632
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 18.0 14.4 21.6

Manual Integrations
APPROVED

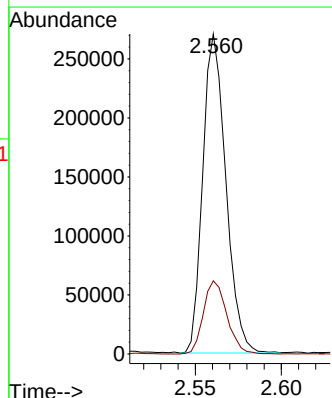
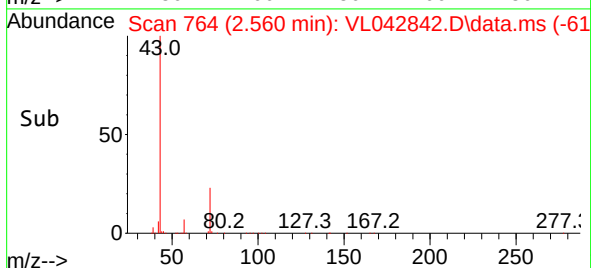
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

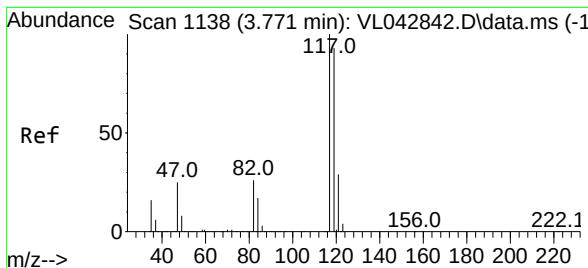


#34
2-Butanone
Concen: 9.033 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



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

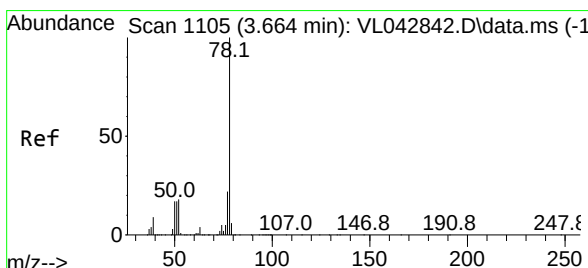
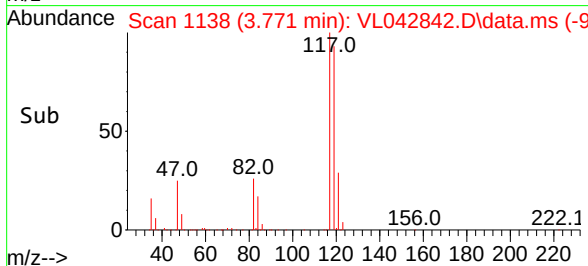
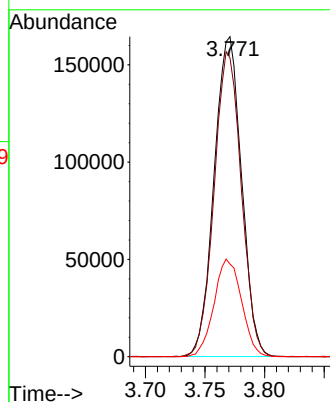
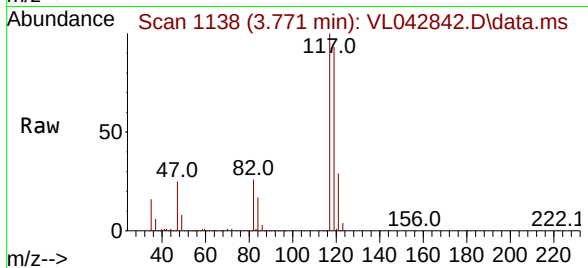
121 29.0 23.2 34.8

Manual Integrations

APPROVED

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

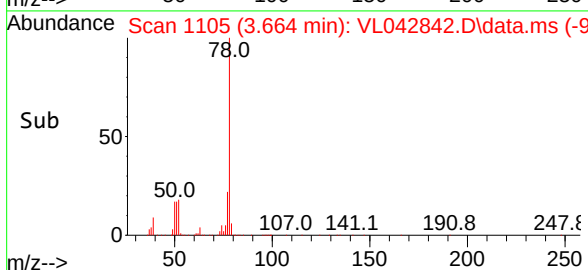
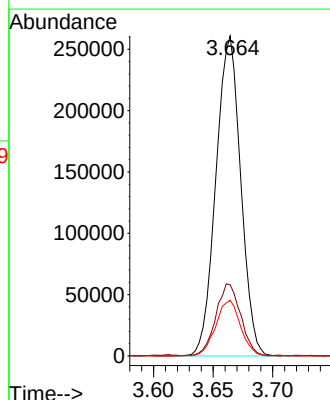
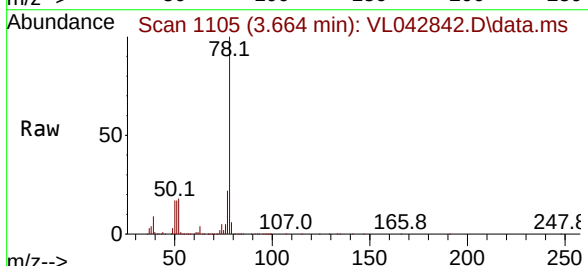
Tgt Ion: 78 Resp: 377113

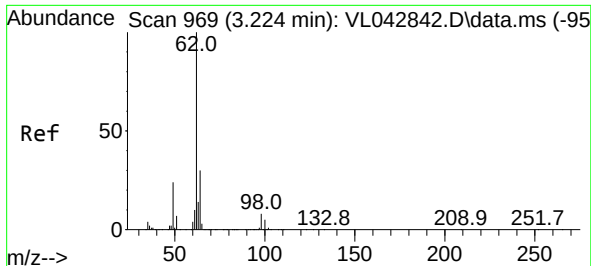
Ion Ratio Lower Upper

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

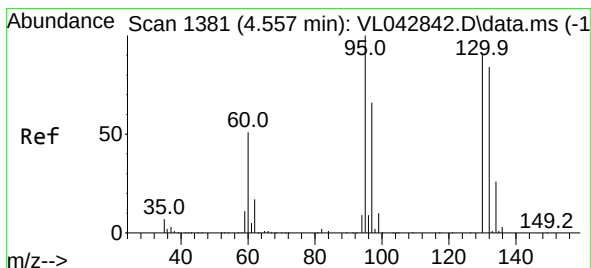
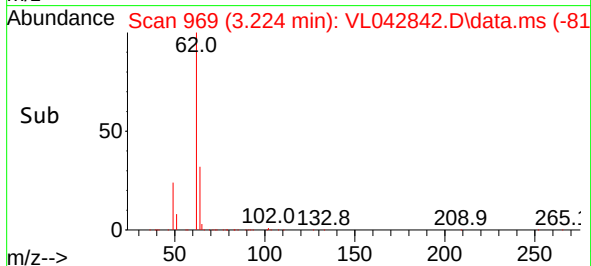
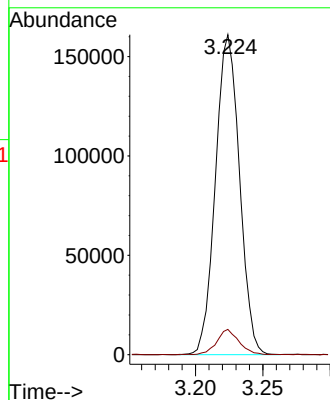
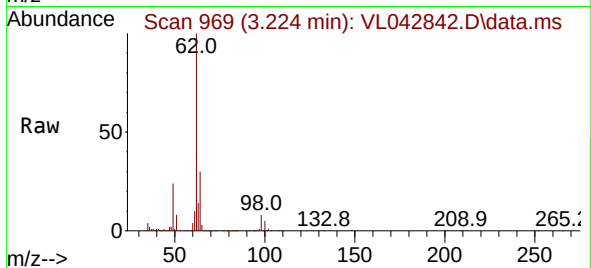
98 7.4 5.9 8.9

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

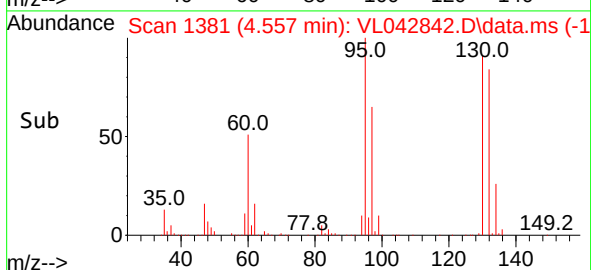
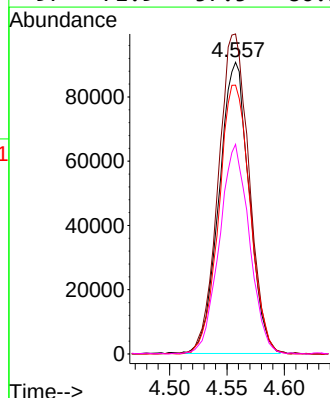
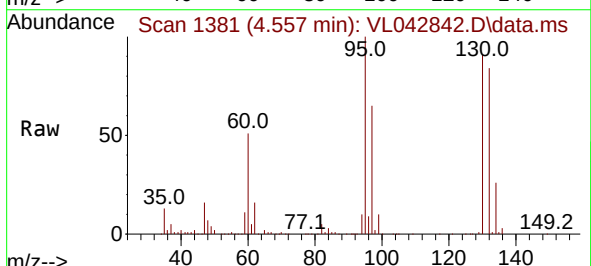
Ion Ratio Lower Upper

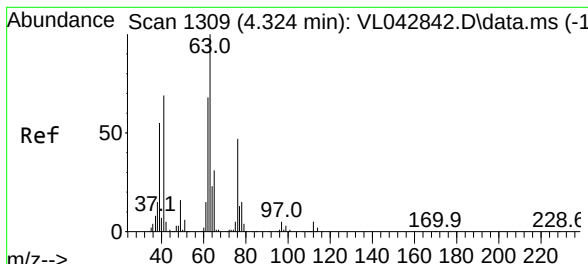
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

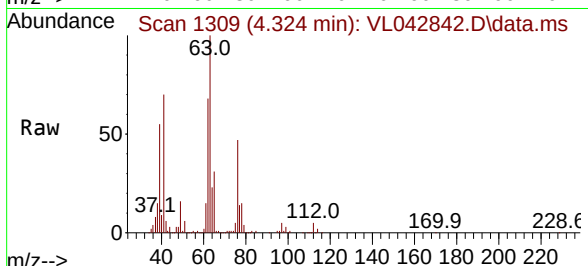
97 71.9 57.5 86.3





#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

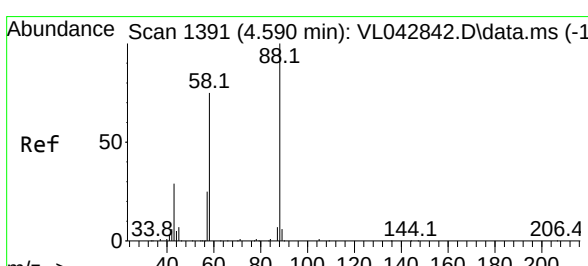
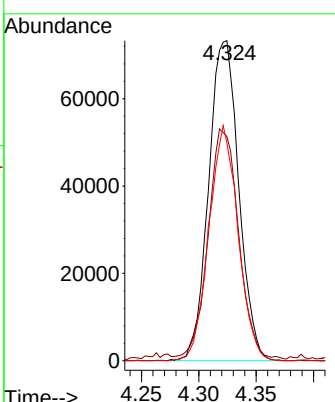
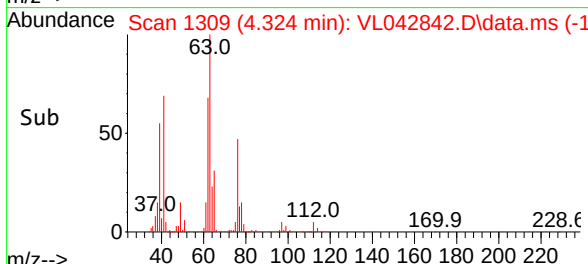
Instrument : MSVOA_L
 ClientSampleId : VSTDICCC010



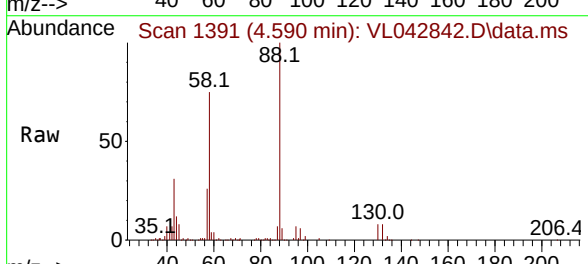
Tgt Ion: 63 Resp: 133990

Ion	Ratio	Lower	Upper
63	100		
41	68.7	55.0	82.4
62	68.0	54.4	81.6

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

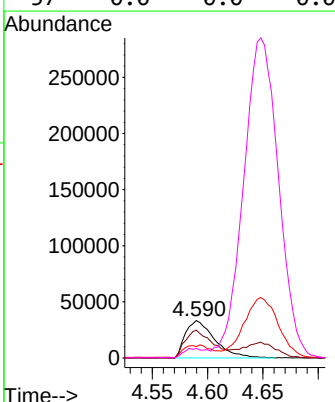
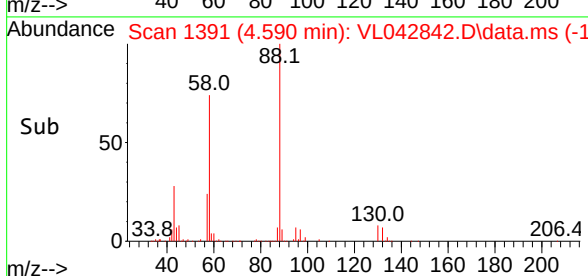


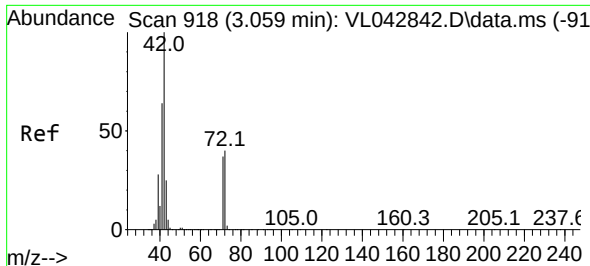
#40
 1,4-Dioxane
 Concen: 9.064 ppbv
 RT: 4.590 min Scan# 1391
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



Tgt Ion: 88 Resp: 61378

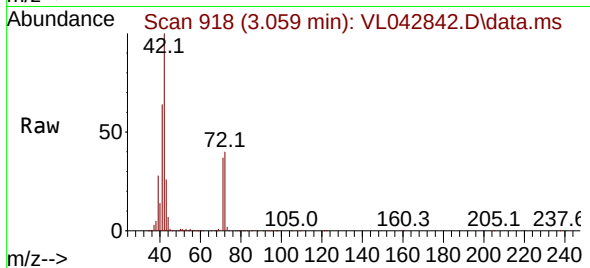
Ion	Ratio	Lower	Upper
88	100		
58	67.2	53.8	80.6
43	28.5	22.8	34.2
57	0.0	0.0	0.0





#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

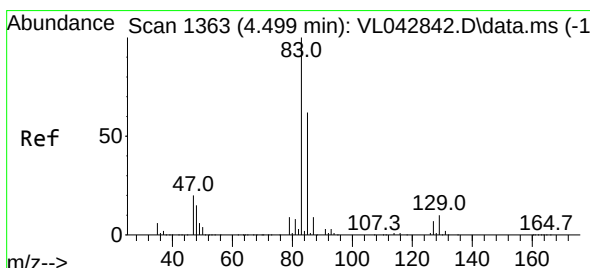
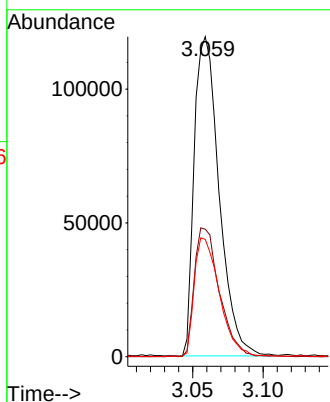
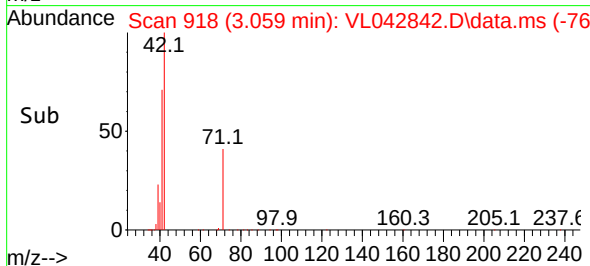
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



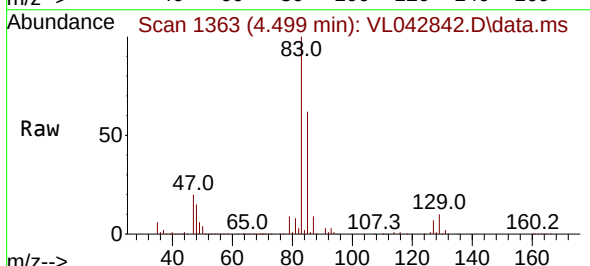
Tgt Ion: 42 Resp: 147025
Ion Ratio Lower Upper
42 100
72 40.7 32.6 48.8
71 37.5 30.0 45.0

Manual Integrations
APPROVED

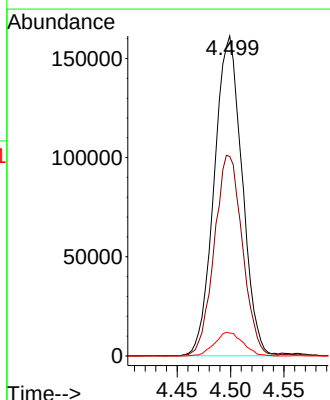
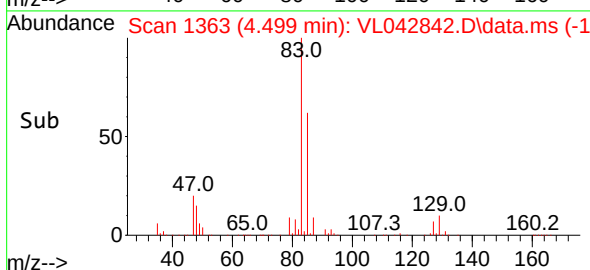
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

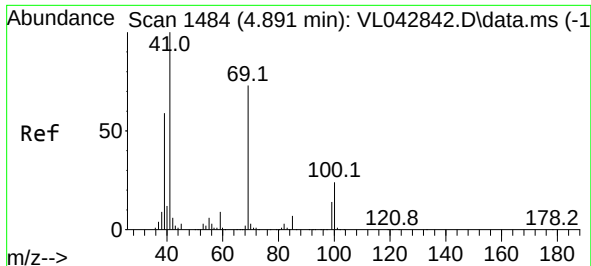


#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



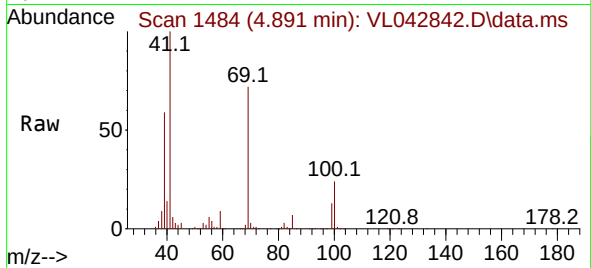
Tgt Ion: 83 Resp: 292909
Ion Ratio Lower Upper
83 100
85 62.3 49.8 74.8
127 7.2 5.8 8.6





#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

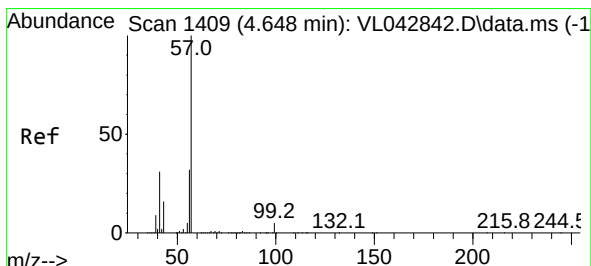
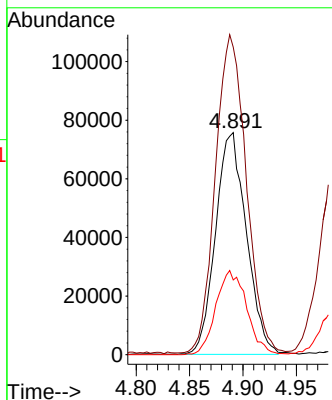
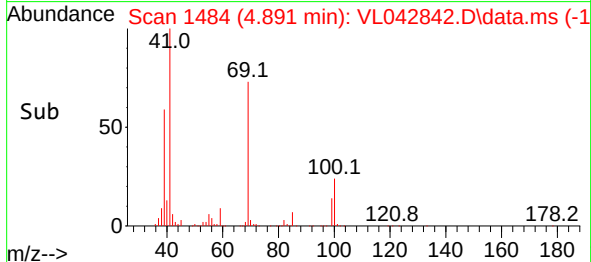
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



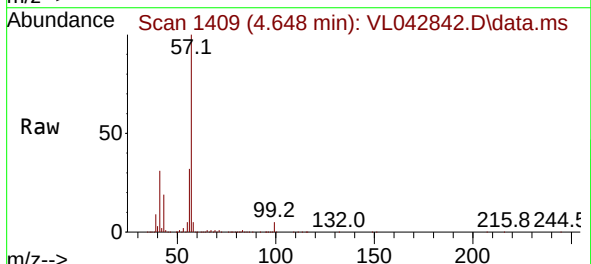
Tgt Ion: 69 Resp: 152035
Ion Ratio Lower Upper
69 100
41 143.3 114.6 172.0
100 37.8 30.2 45.4

Manual Integrations
APPROVED

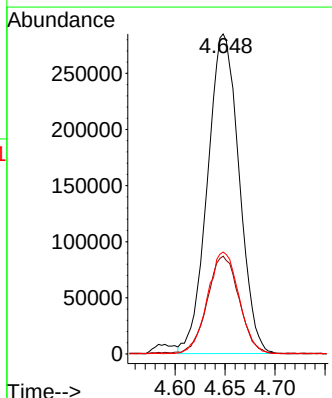
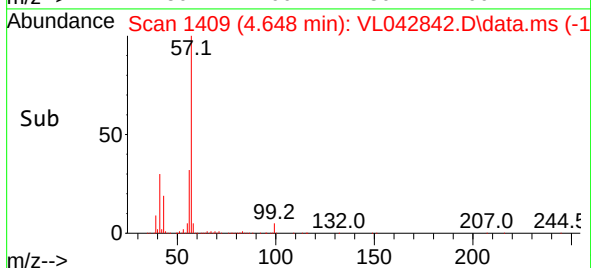
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

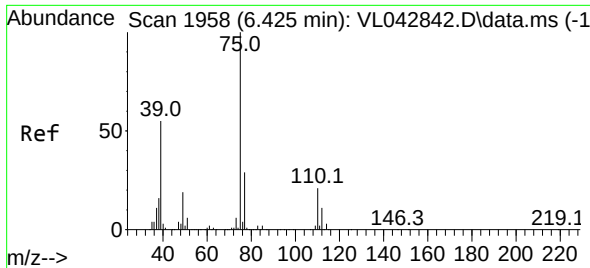


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



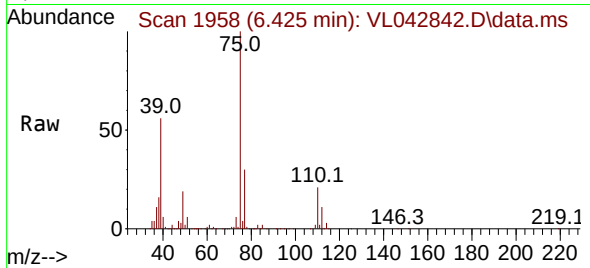
Tgt Ion: 57 Resp: 626465
Ion Ratio Lower Upper
57 100
41 31.0 24.8 37.2
56 31.9 25.5 38.3





#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

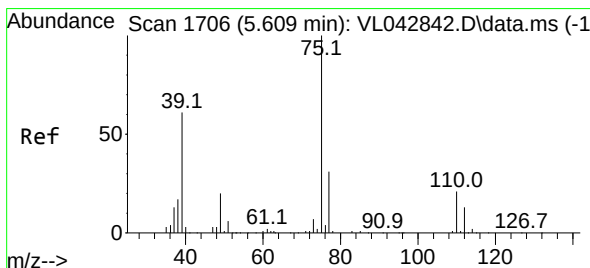
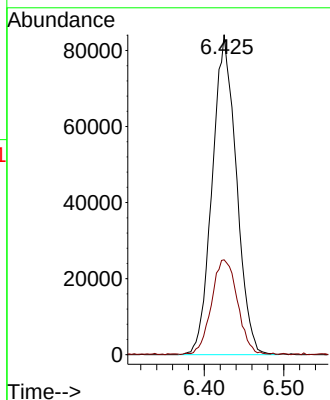
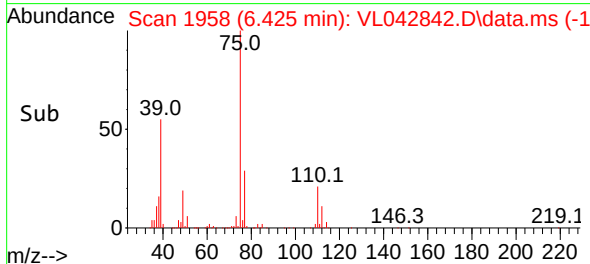
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



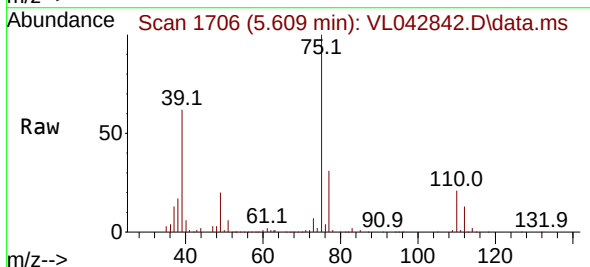
Tgt Ion: 75 Resp: 17720
Ion Ratio Lower Upper
75 100
77 29.7 23.8 35.6

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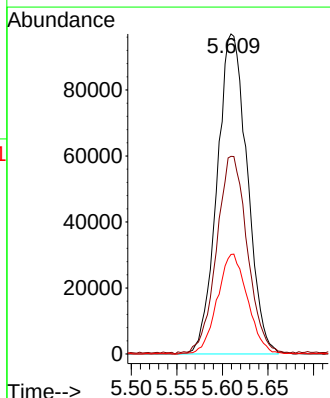
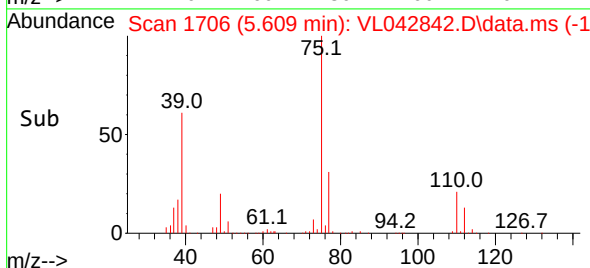
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

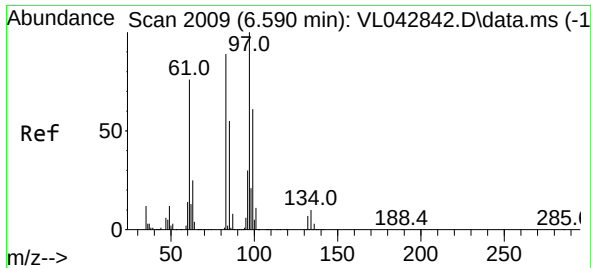


#46
cis-1,3-Dichloropropene
Concen: 9.635 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



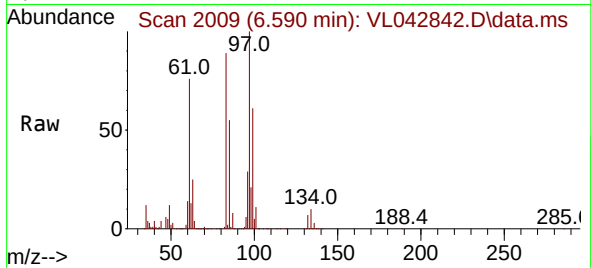
Tgt Ion: 75 Resp: 222921
Ion Ratio Lower Upper
75 100
39 61.1 48.9 73.3
77 31.1 24.9 37.3





#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

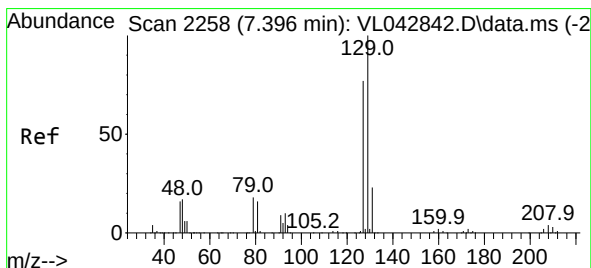
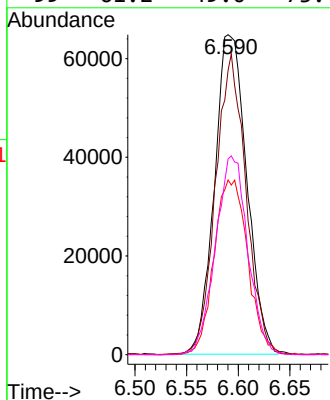
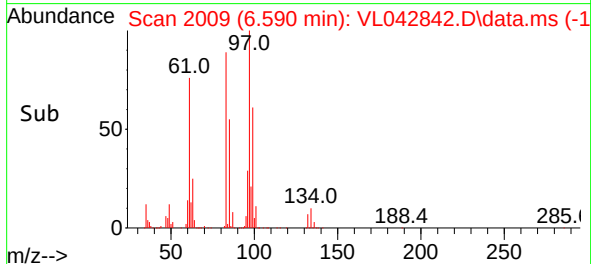
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

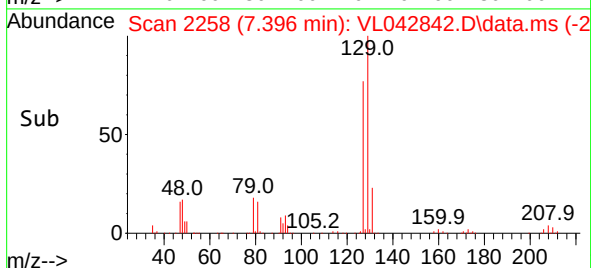
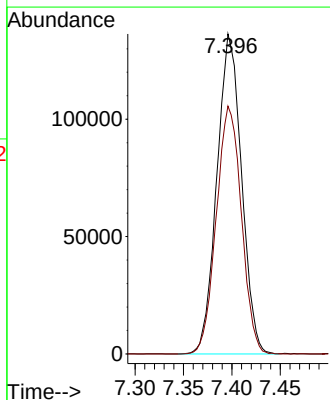
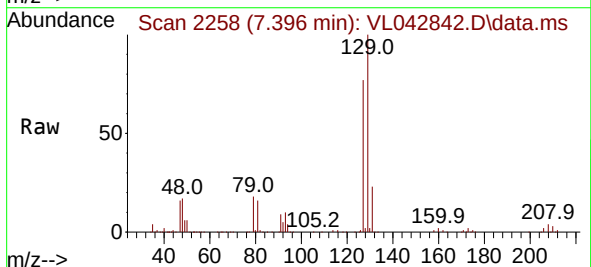
Manual Integrations
APPROVED

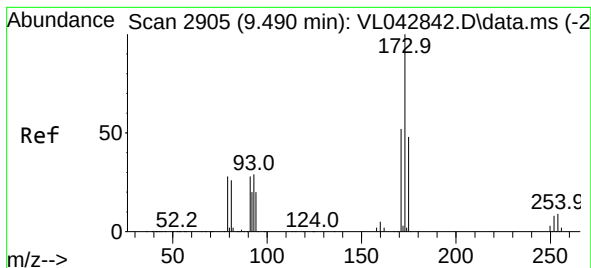
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

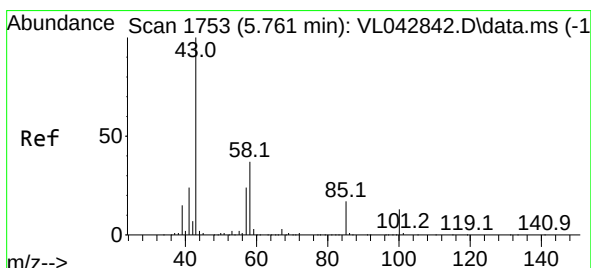
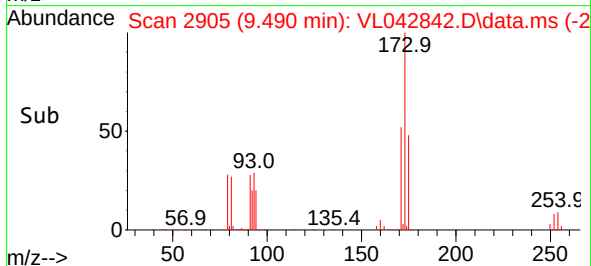
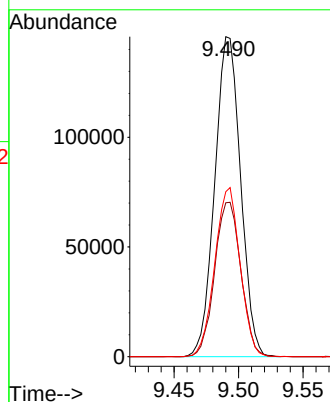
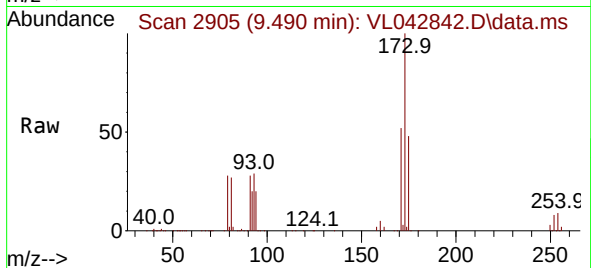
VSTDICCC010

Tgt Ion:	173	Resp:	20297
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

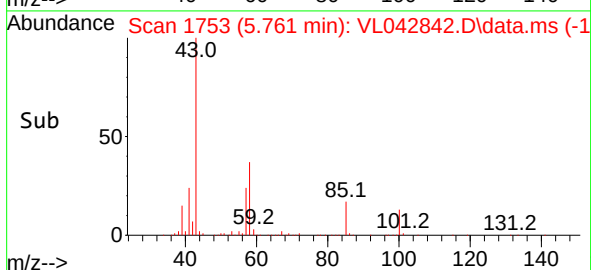
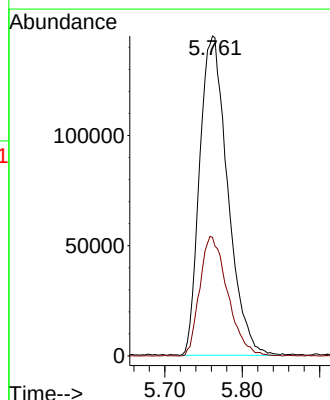
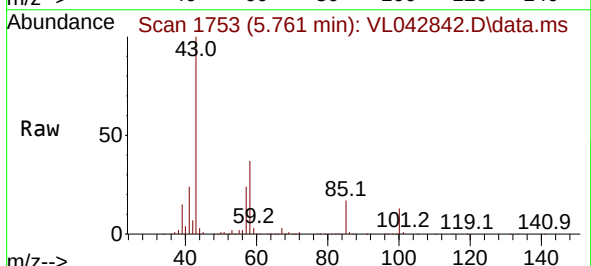
RT: 5.761 min Scan# 1753

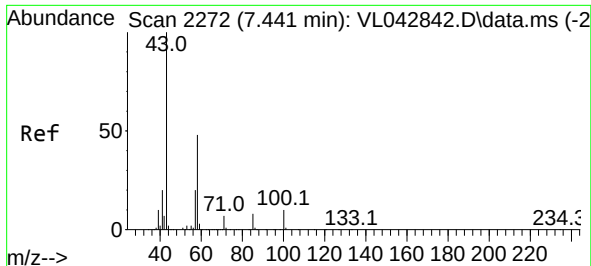
Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

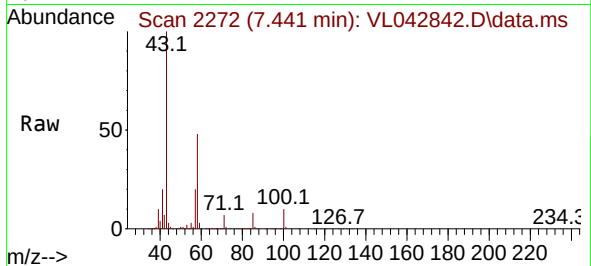
Tgt Ion:	43	Resp:	364306
Ion Ratio	Lower	Upper	
43	100		
58	37.3	29.8	44.8





#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

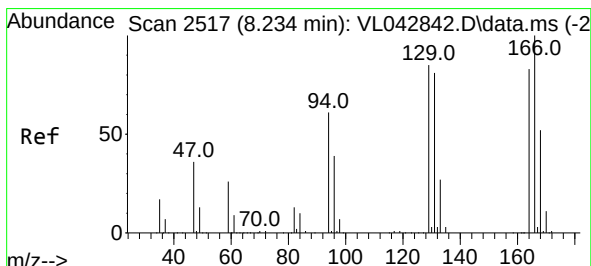
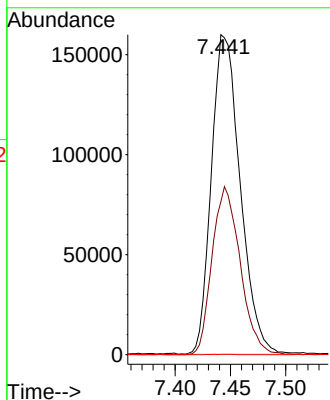
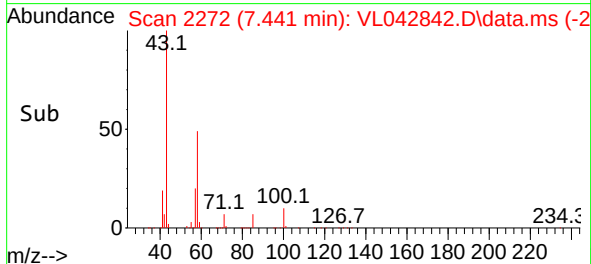
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 28905
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
98 0.1 0.1 0.1

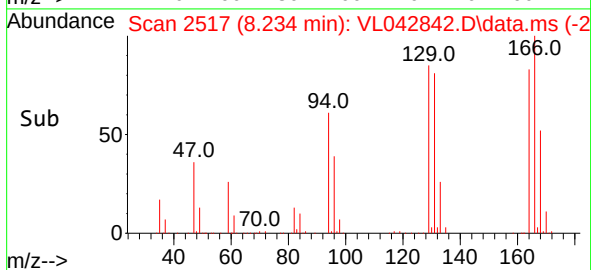
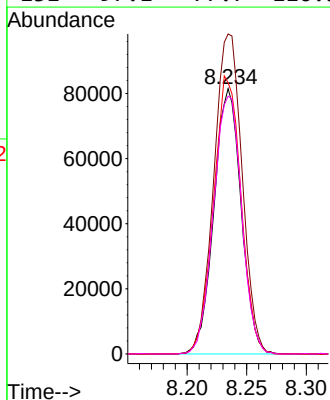
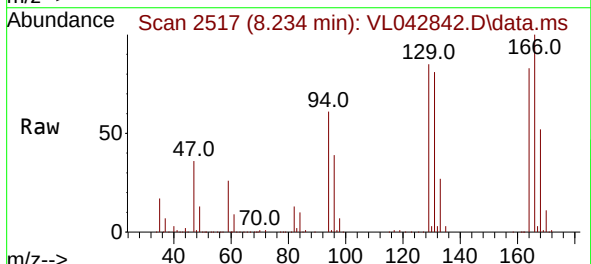
Manual Integrations
APPROVED

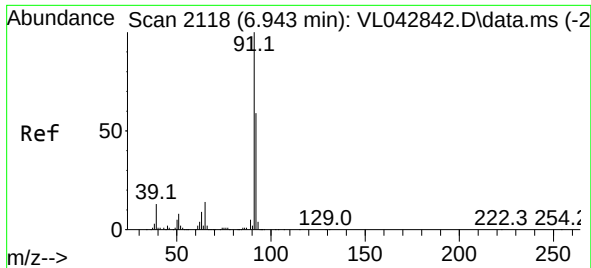
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

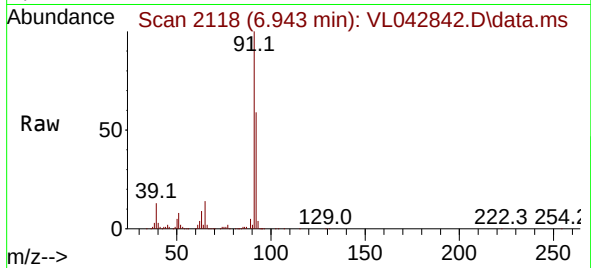
Tgt Ion:164 Resp: 129484
Ion Ratio Lower Upper
164 100
166 120.6 96.5 144.7
129 102.2 81.8 122.6
131 97.1 77.7 116.5





#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

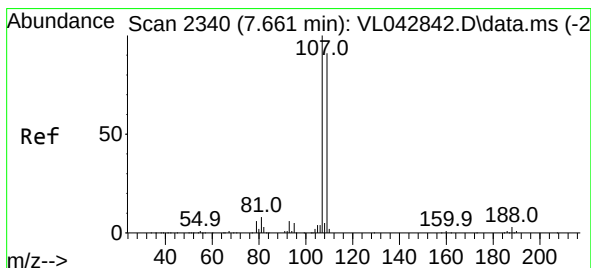
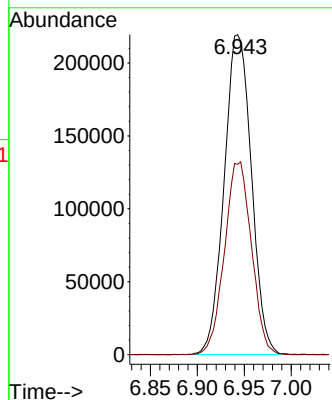
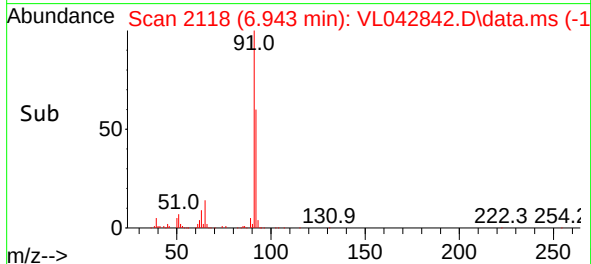
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



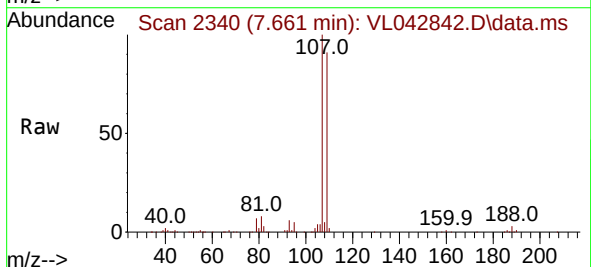
Tgt Ion: 91 Resp: 443400
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

Manual Integrations
APPROVED

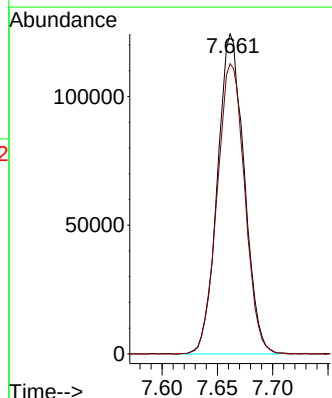
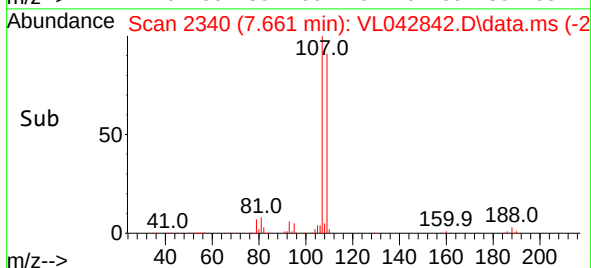
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

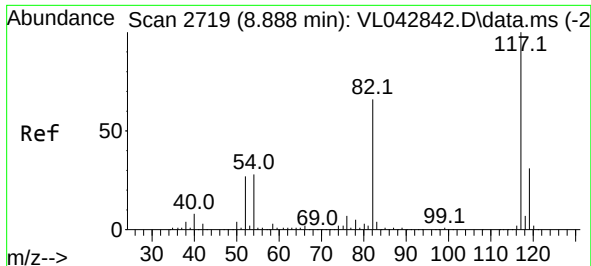


#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



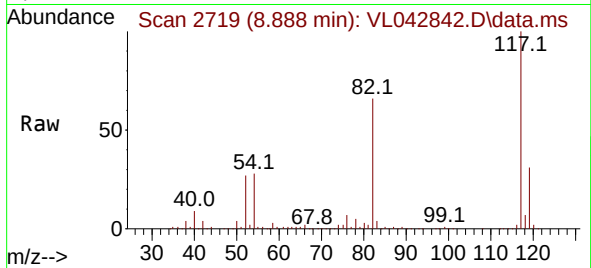
Tgt Ion:107 Resp: 209330
Ion Ratio Lower Upper
107 100
109 90.6 72.5 108.7





#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

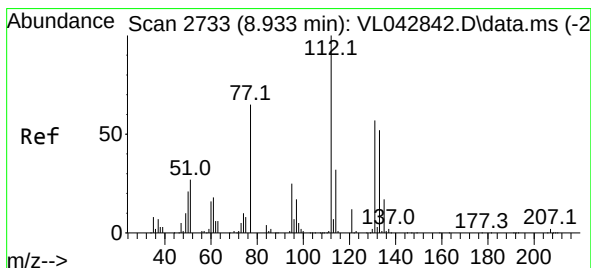
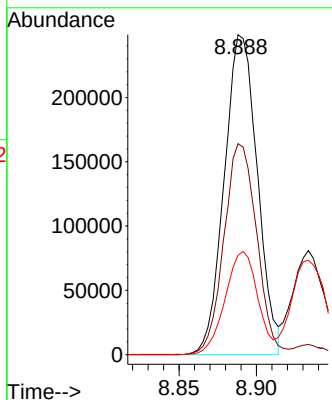
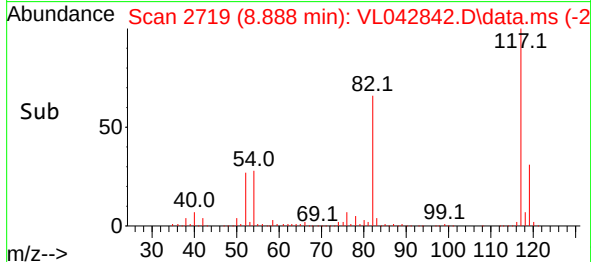
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

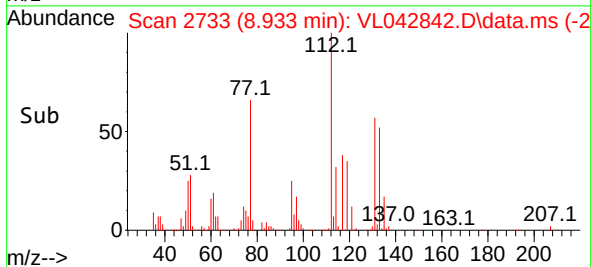
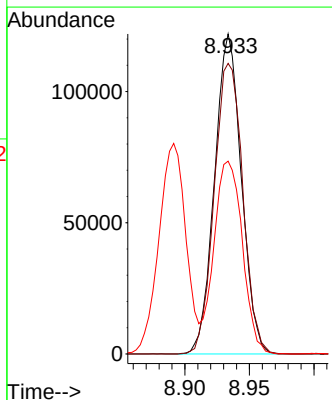
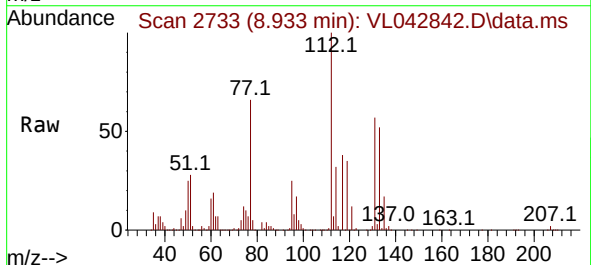
Manual Integrations
APPROVED

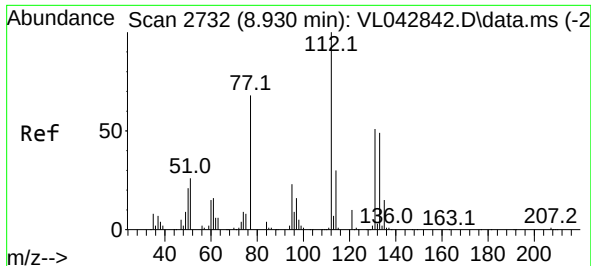
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





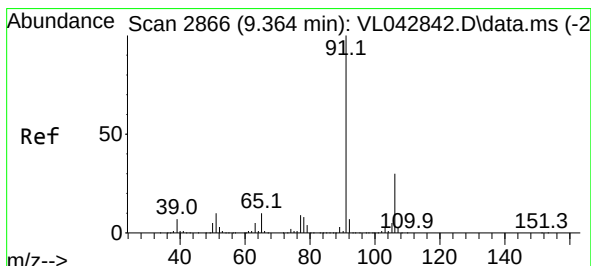
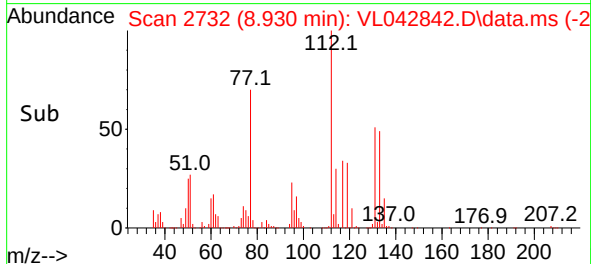
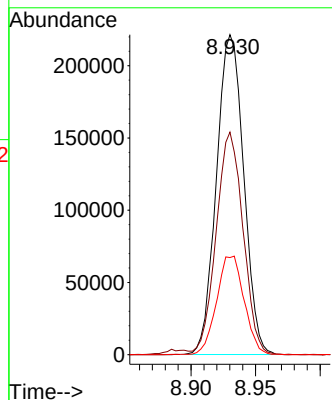
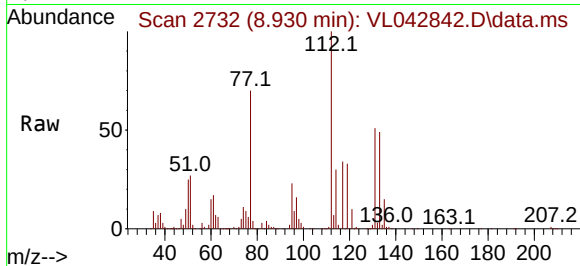
#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

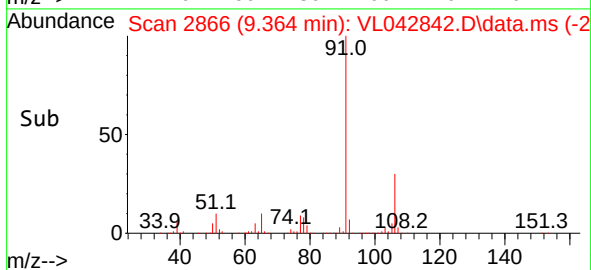
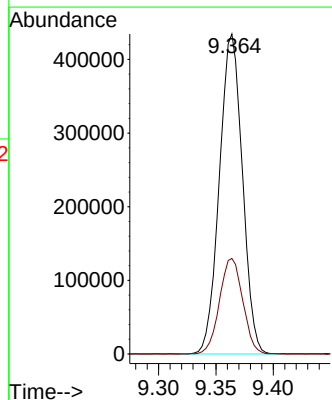
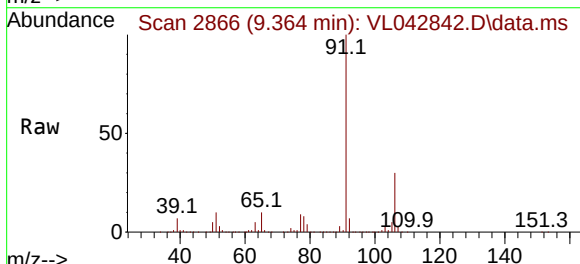
Manual Integrations
APPROVED

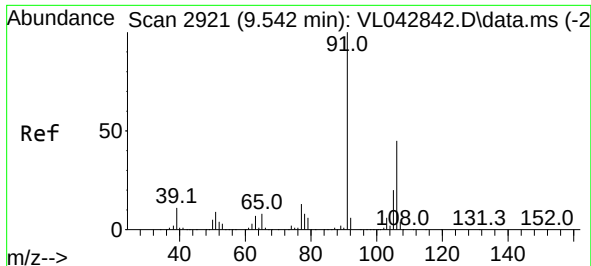
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

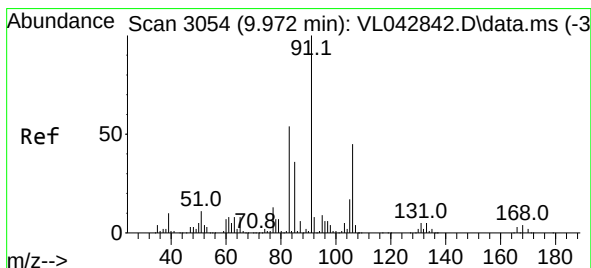
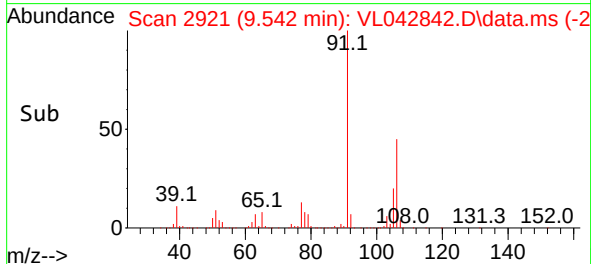
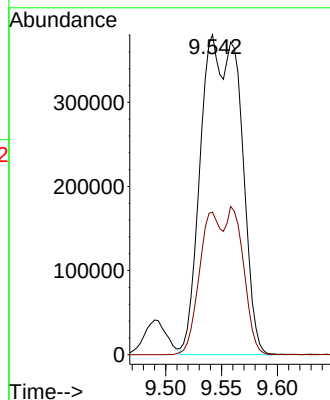
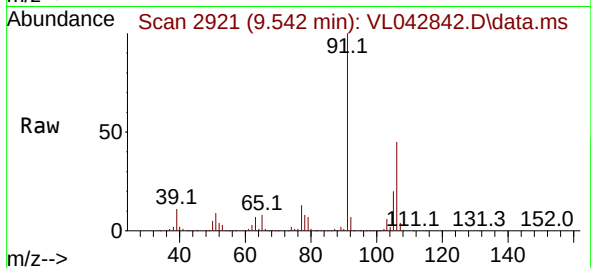
106 0.0 0.0 0.0

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

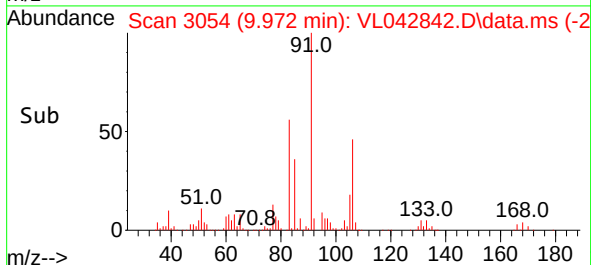
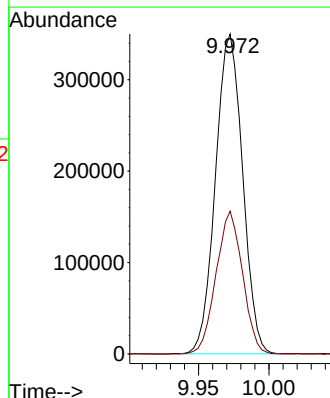
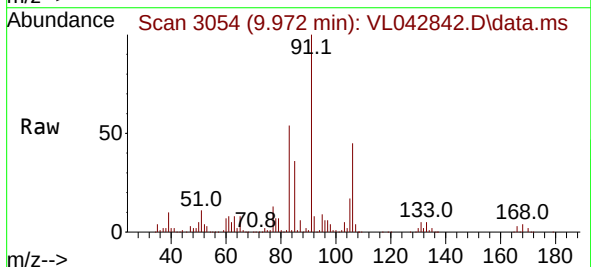
Acq: 13 Aug 2025 08:30

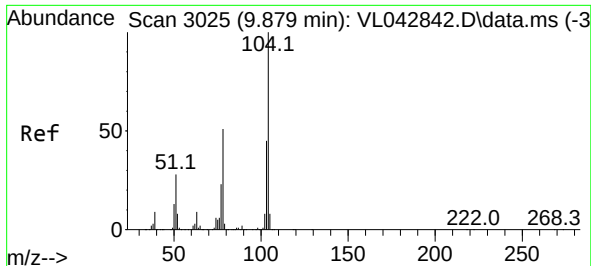
Tgt Ion: 91 Resp: 469073

Ion Ratio Lower Upper

91 100

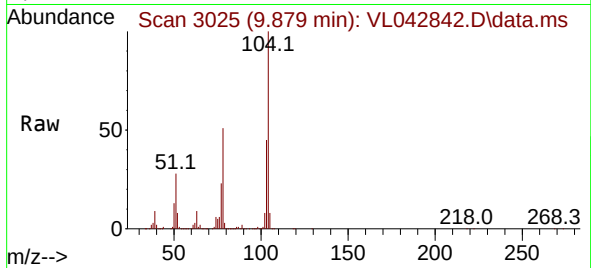
106 43.6 21.8 65.4





#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

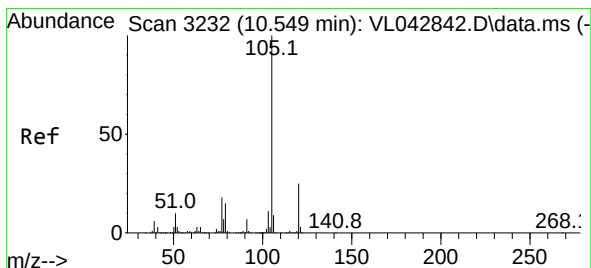
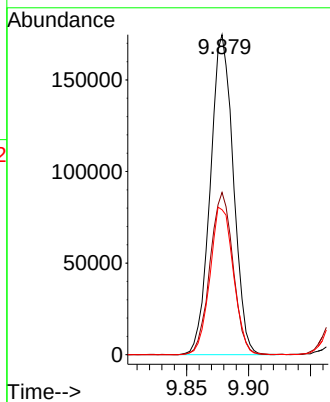
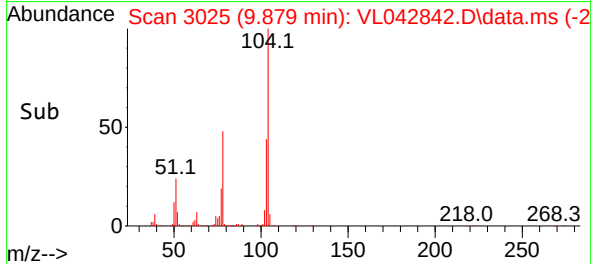
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



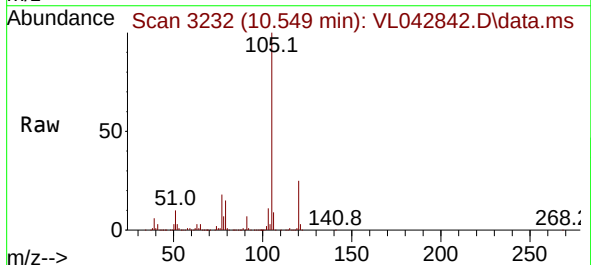
Tgt Ion:104 Resp: 226050
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 47.1 37.7 56.5

Manual Integrations
APPROVED

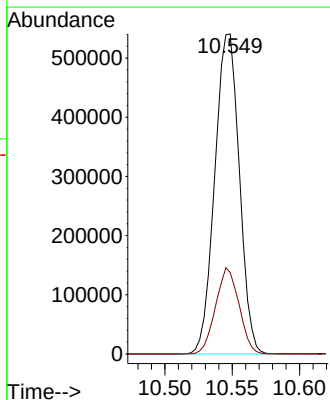
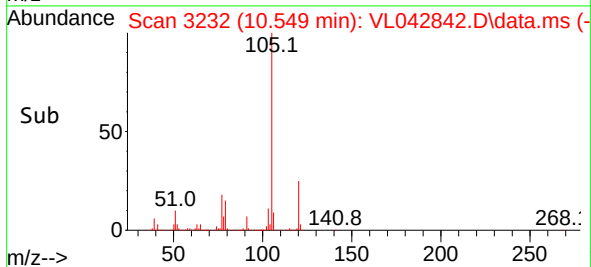
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

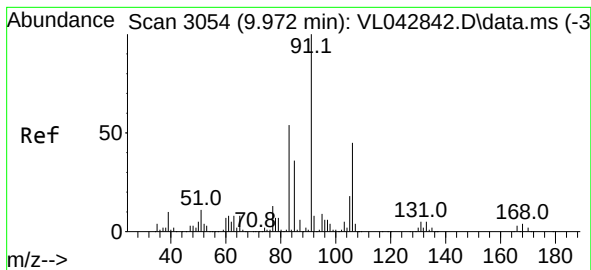


#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



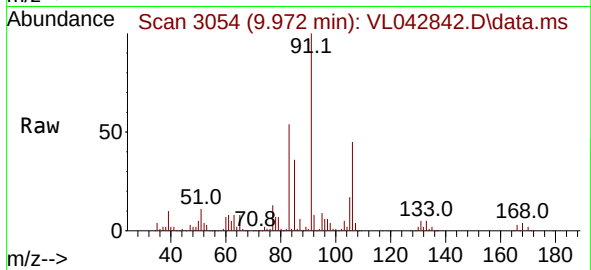
Tgt Ion:105 Resp: 685983
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#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

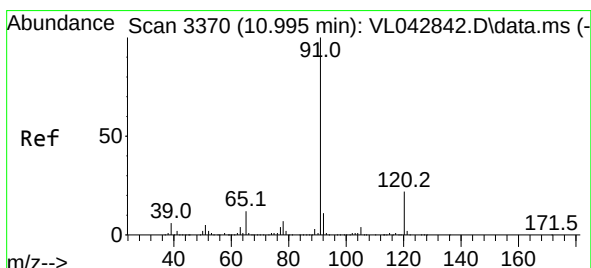
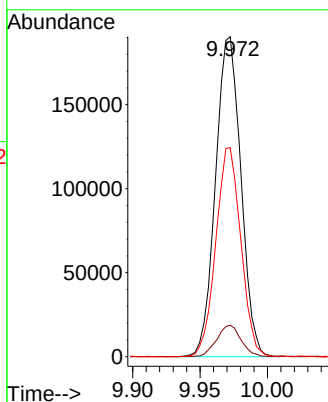
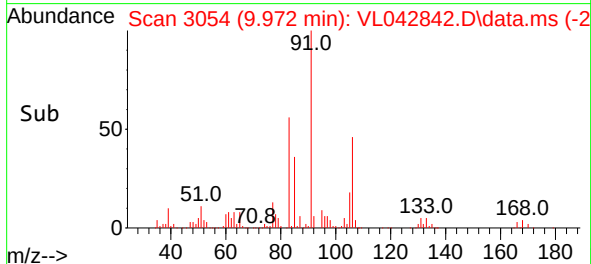
Instrument : MSVOA_1
ClientSampleId : VSTDICCC010



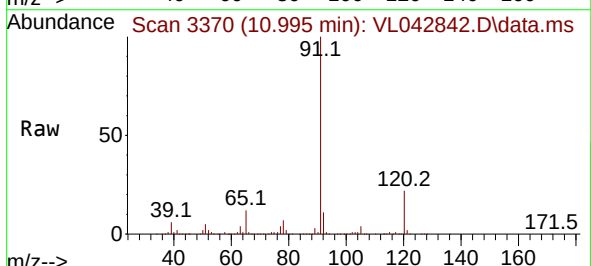
Tgt Ion: 83 Resp: 24962
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.5 32.3 96.8

Manual Integrations
APPROVED

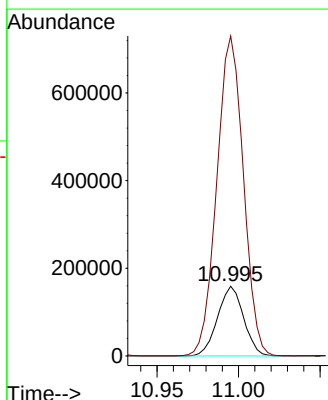
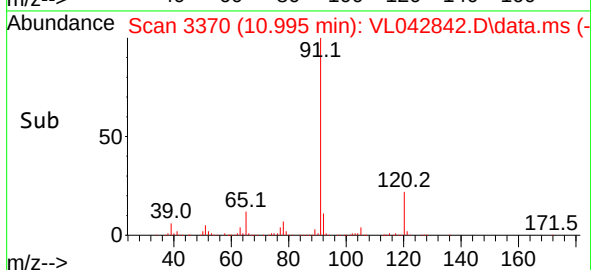
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

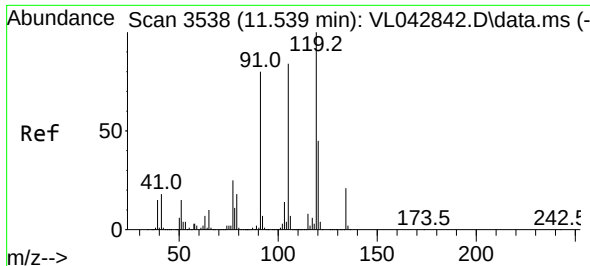


#64
n-propylbenzene
Concen: 9.158 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



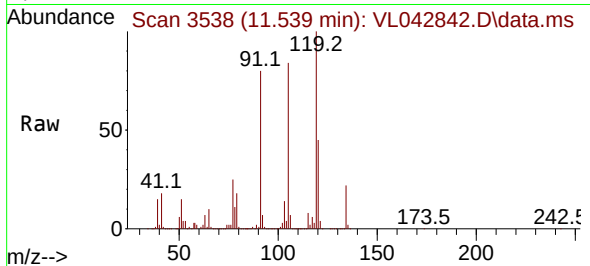
Tgt Ion:120 Resp: 175986
Ion Ratio Lower Upper
120 100
91 469.7 375.8 563.6





#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

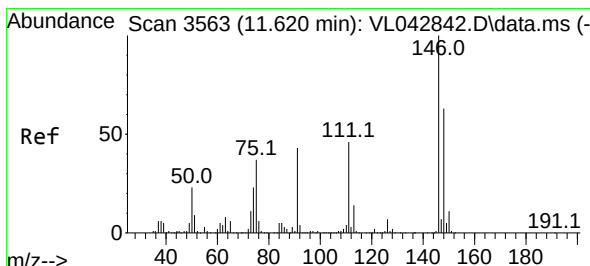
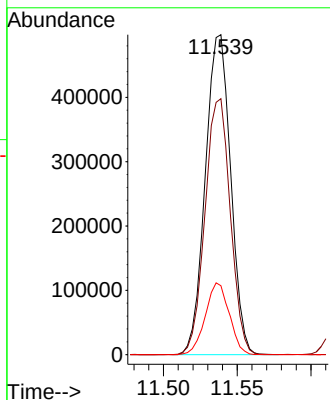
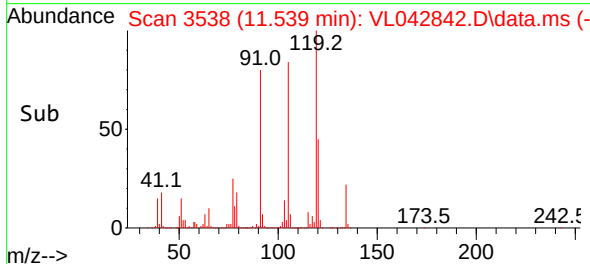
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



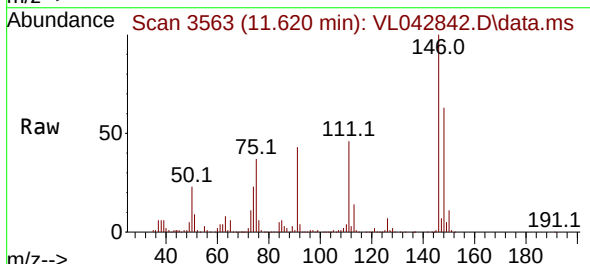
Tgt Ion: 119 Resp: 594314
Ion Ratio Lower Upper
119 100
91 79.9 63.9 95.9
134 21.2 17.0 25.4

Manual Integrations
APPROVED

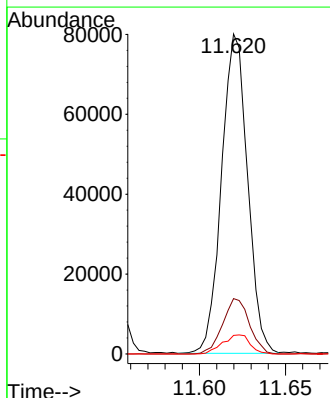
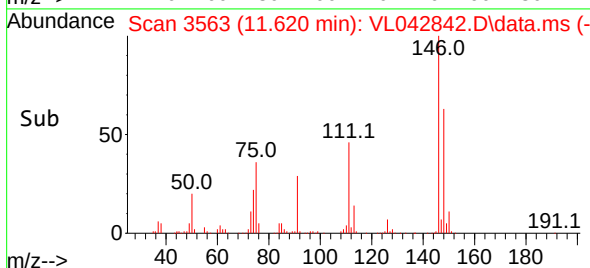
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

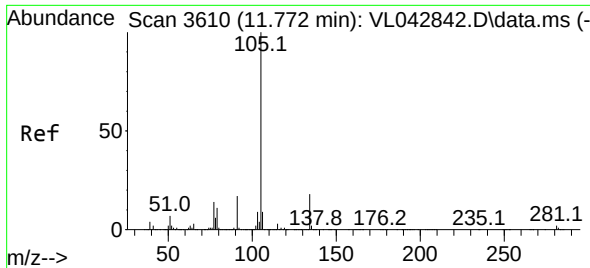


#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



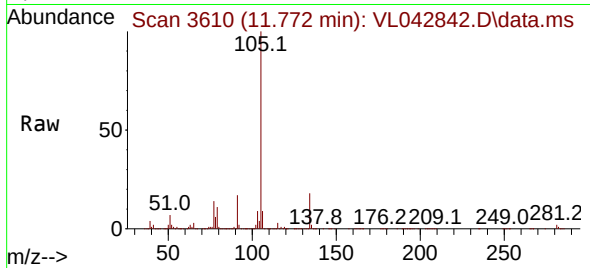
Tgt Ion: 91 Resp: 84156
Ion Ratio Lower Upper
91 100
126 17.8 14.2 21.4
128 6.3 5.0 7.6





#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

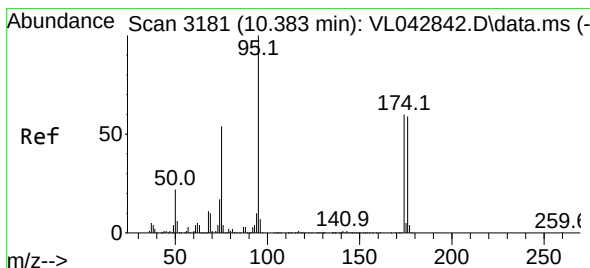
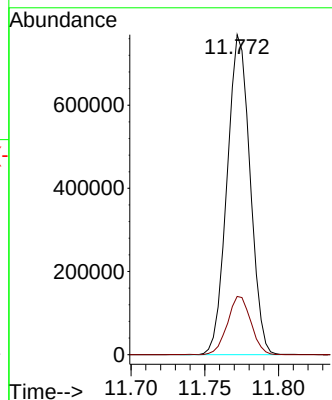
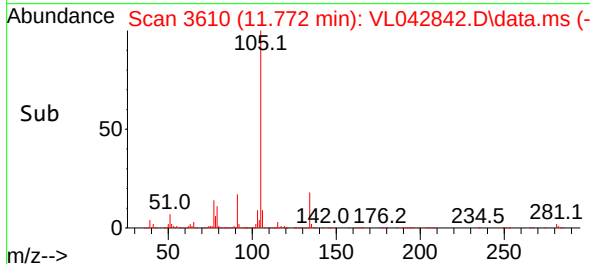
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



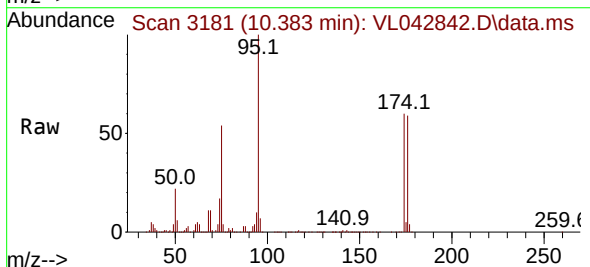
Tgt Ion:105 Resp: 833378
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

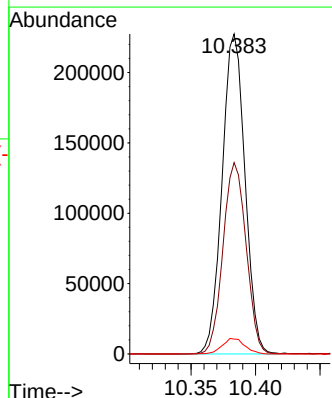
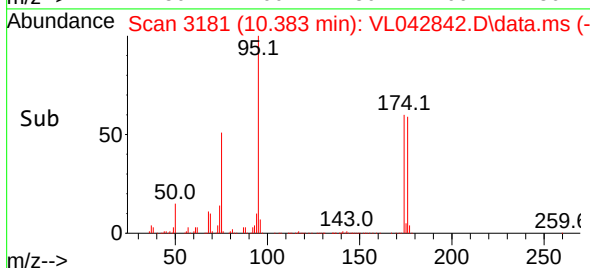
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

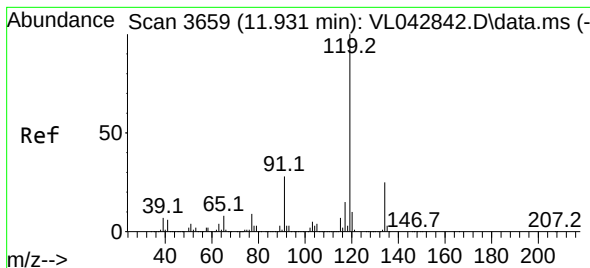


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



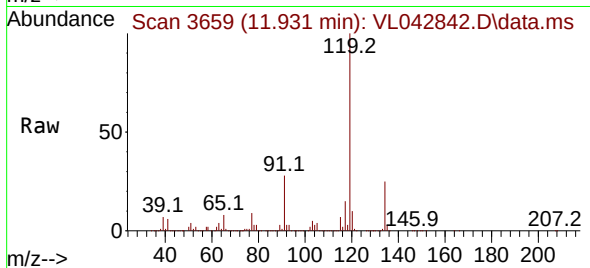
Tgt Ion: 95 Resp: 279557
 Ion Ratio Lower Upper
 95 100
 174 60.5 48.4 72.6
 175 4.8 3.8 5.8





#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

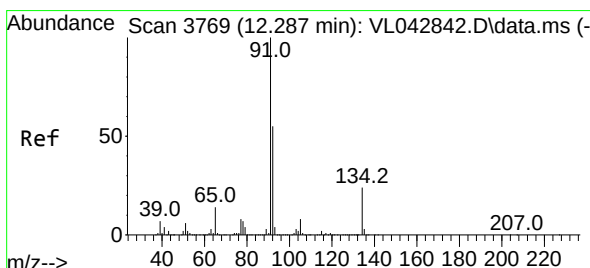
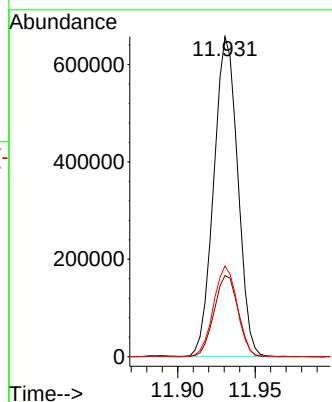
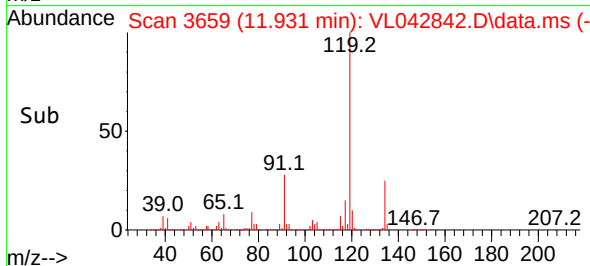
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



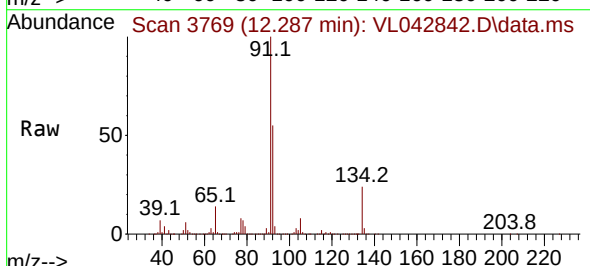
Tgt Ion:119 Resp: 705700
Ion Ratio Lower Upper
119 100
134 25.7 20.6 30.8
91 28.3 22.6 34.0

Manual Integrations
APPROVED

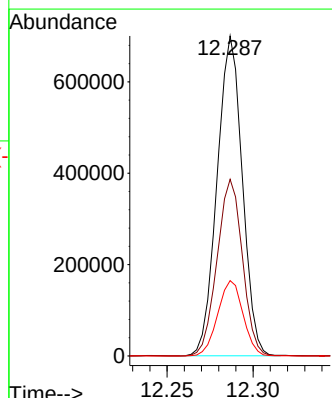
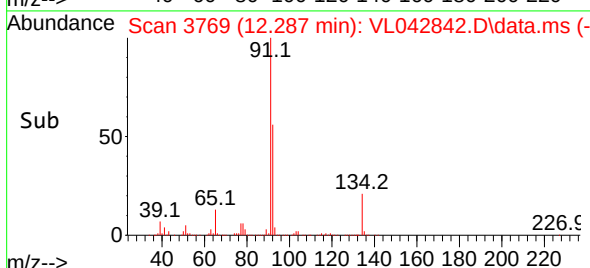
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

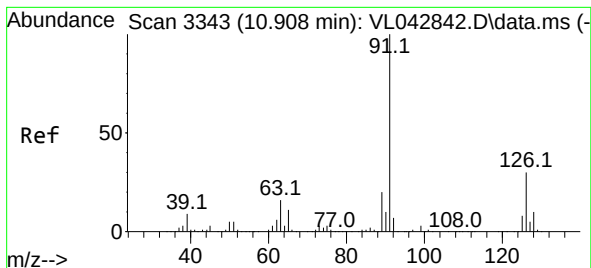


#70
n-Butylbenzene
Concen: 8.995 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



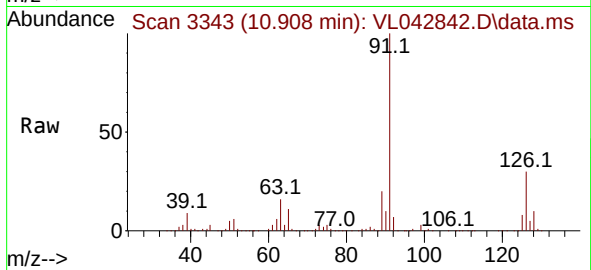
Tgt Ion: 91 Resp: 713713
Ion Ratio Lower Upper
91 100
92 55.7 44.6 66.8
134 23.7 19.0 28.4





#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

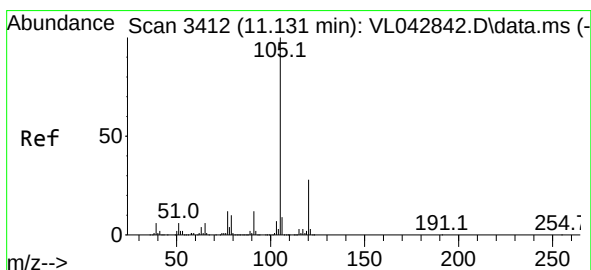
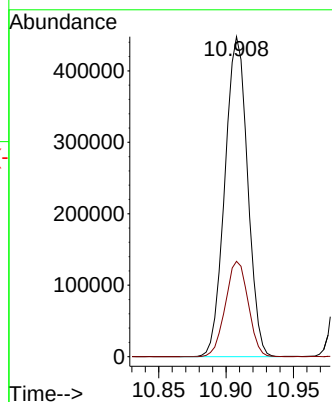
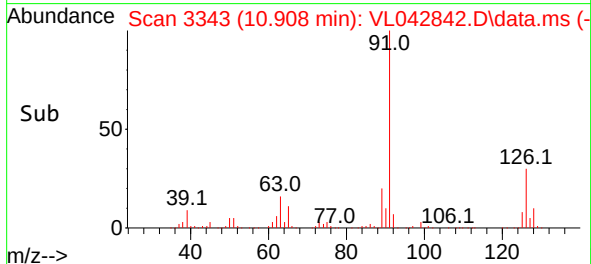
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



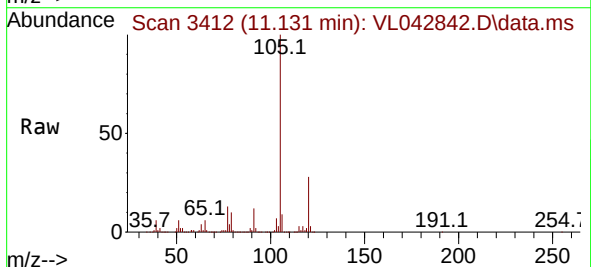
Tgt Ion: 91 Resp: 52523
Ion Ratio Lower Upper
91 100
126 29.9 12.0 47.8

Manual Integrations
APPROVED

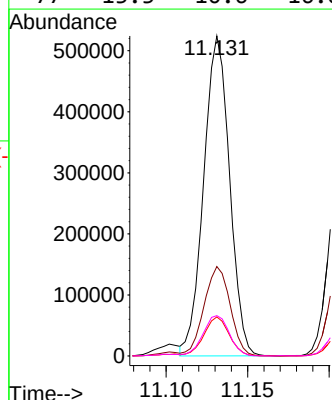
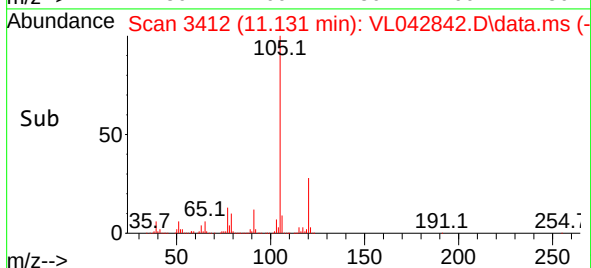
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

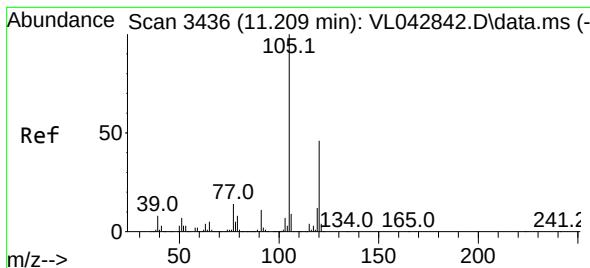


#72
4-Ethyltoluene
Concen: 9.267 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



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

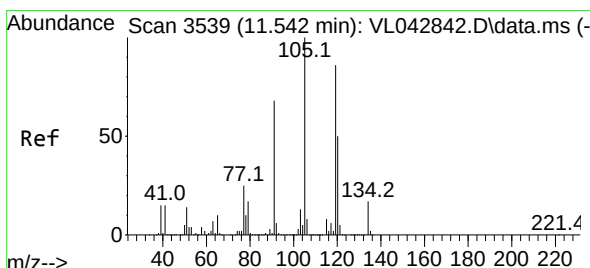
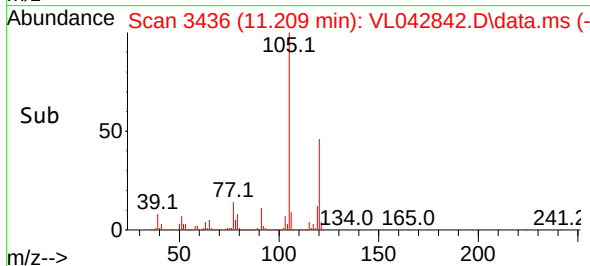
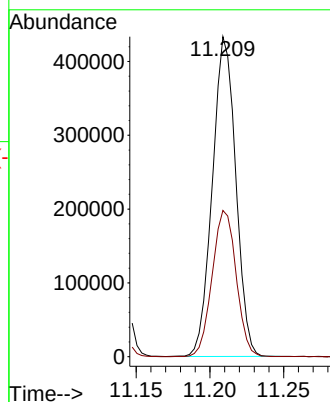
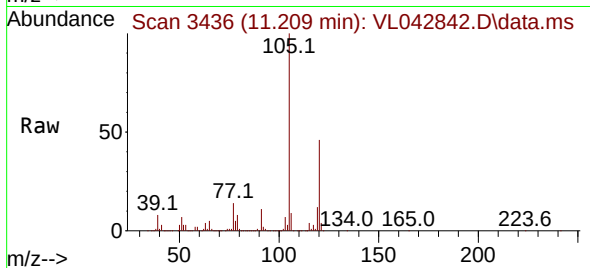
120 45.7 36.6 54.8

Manual Integrations

APPROVED

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

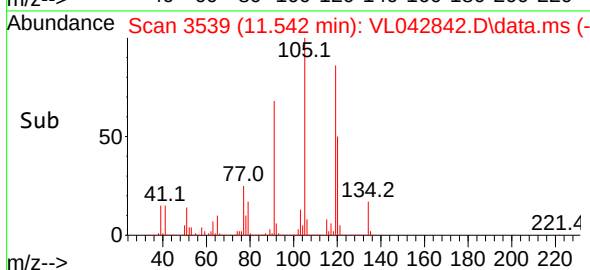
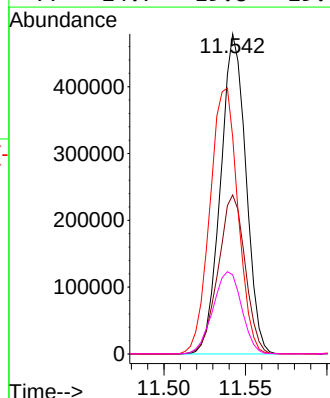
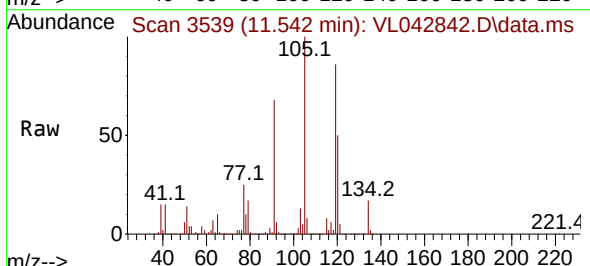
Ion Ratio Lower Upper

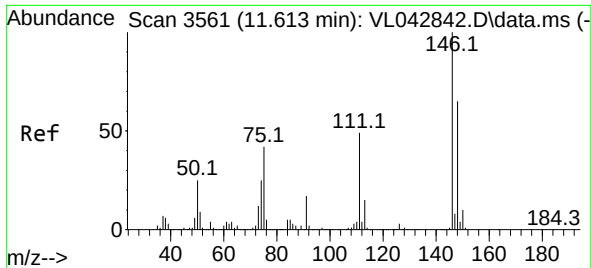
105 100

120 49.7 39.8 59.6

91 67.8 54.2 81.4

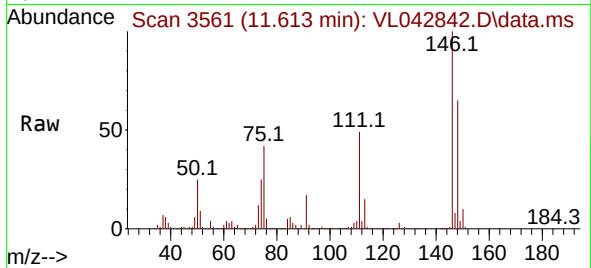
77 24.7 19.8 29.6





#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

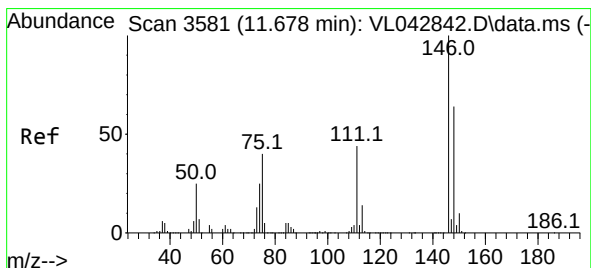
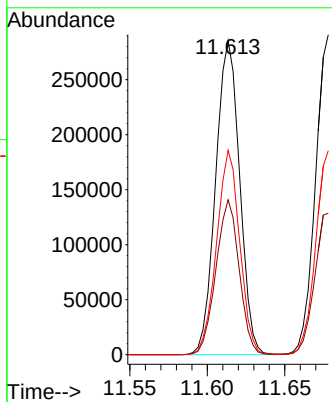
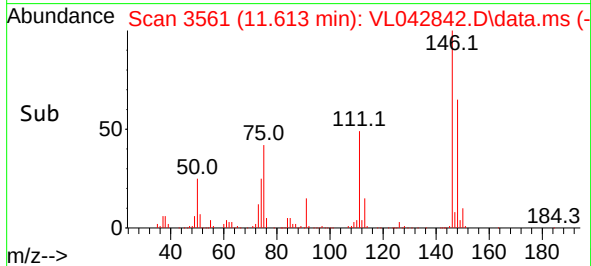
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



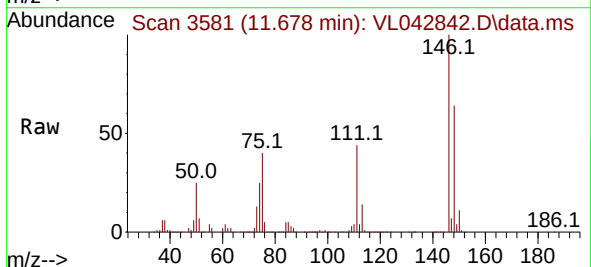
Tgt Ion:146 Resp: 307640
Ion Ratio Lower Upper
146 100
111 47.8 23.9 71.7
148 62.7 31.4 94.0

Manual Integrations
APPROVED

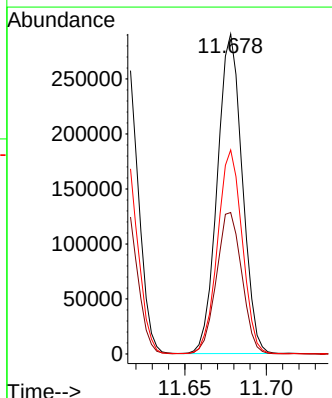
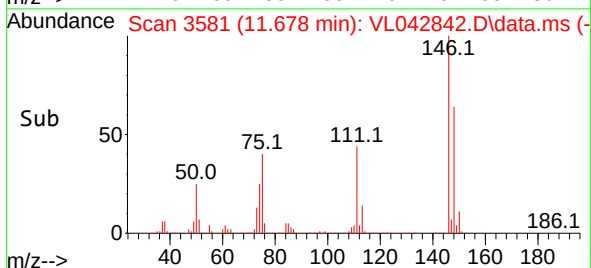
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

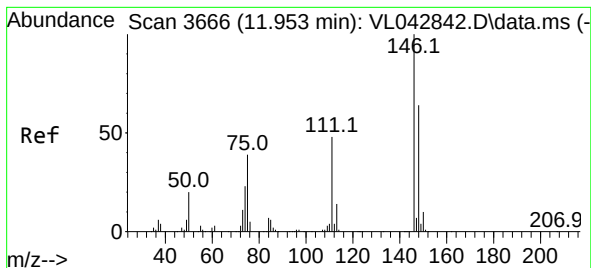


#76
1,4-Dichlorobenzene
Concen: 9.203 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



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 :

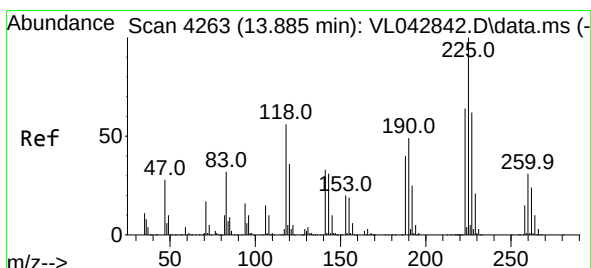
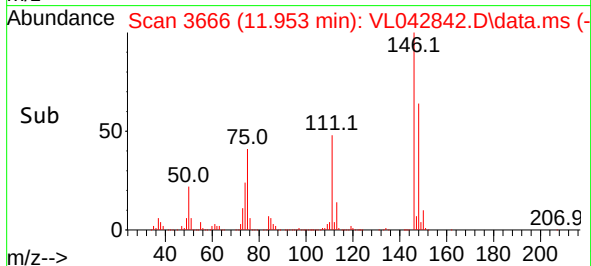
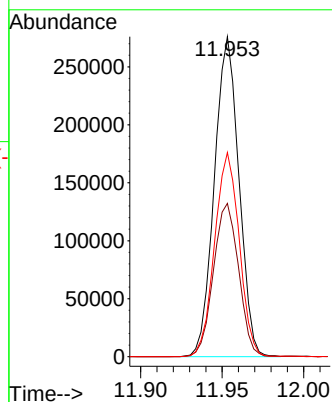
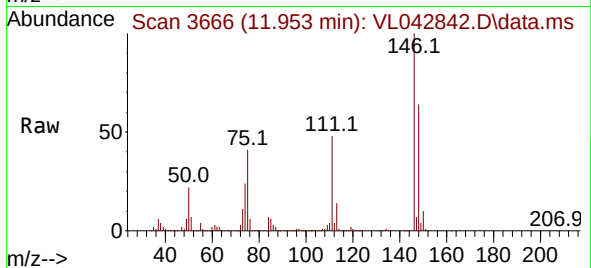
VSTDICCC010

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

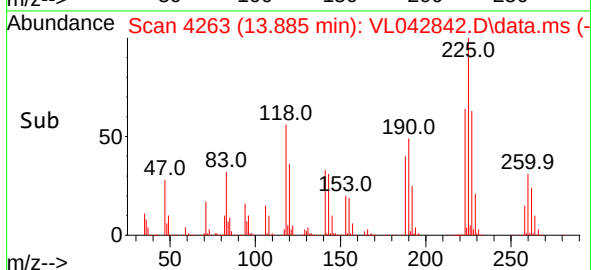
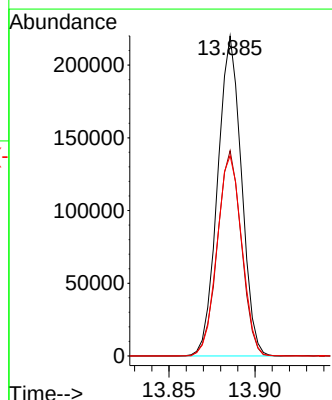
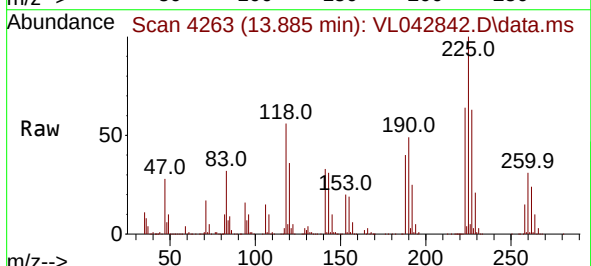
RT: 13.885 min Scan# 4263

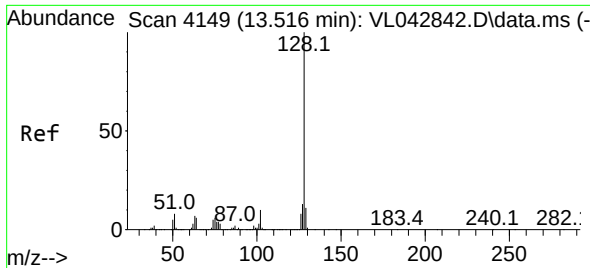
Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

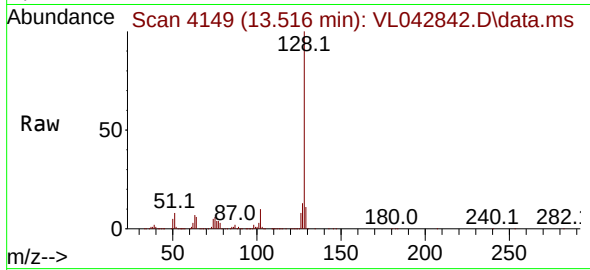
Tgt Ion:	225	Resp:	211996
Ion Ratio	Lower	Upper	
225	100		
223	64.3	51.4	77.2
227	64.9	51.9	77.9





#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

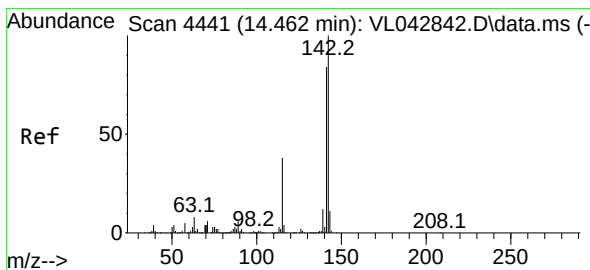
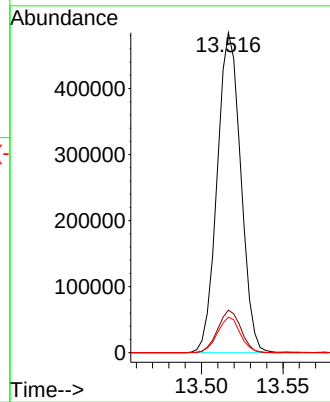
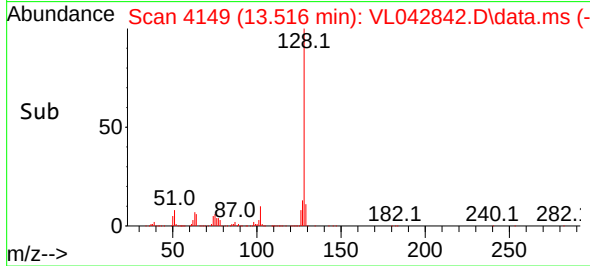
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

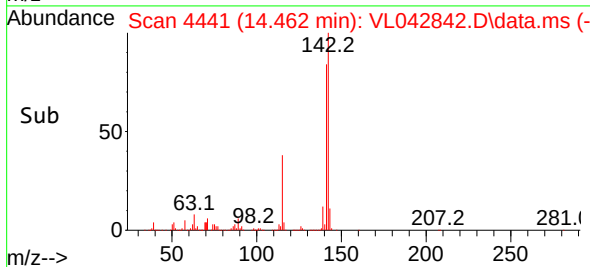
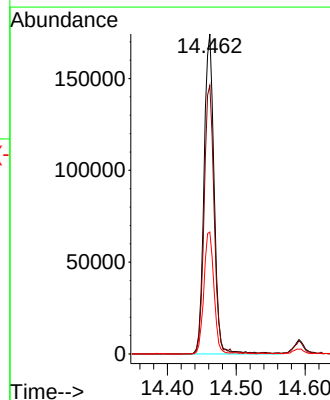
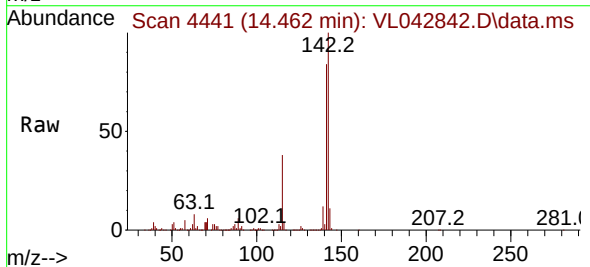
Manual Integrations
APPROVED

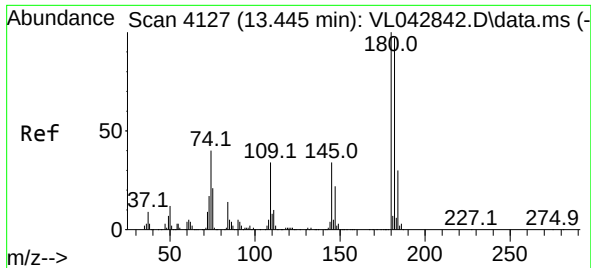
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

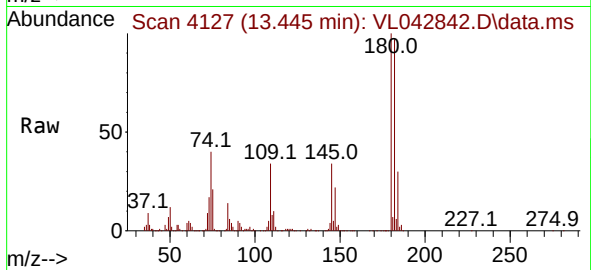
Tgt Ion:142 Resp: 176880
Ion Ratio Lower Upper
142 100
141 83.8 67.0 100.6
115 38.6 30.9 46.3





#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

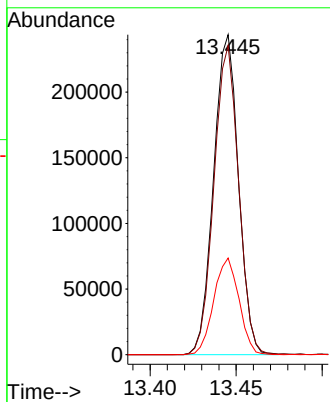
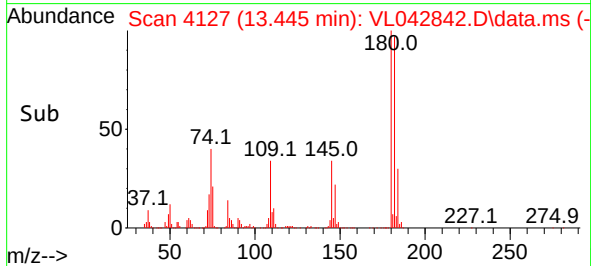
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



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 : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

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

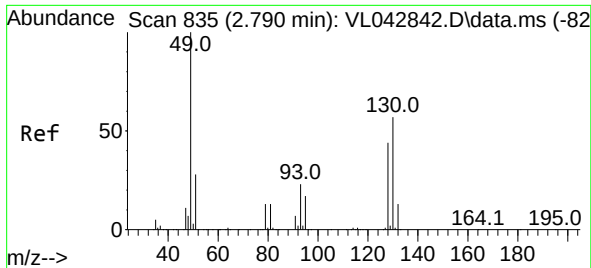
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

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

Response via : Initial Calibration

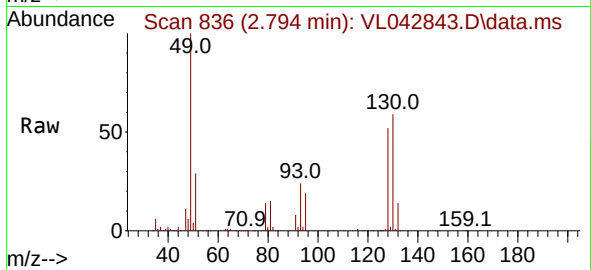
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	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

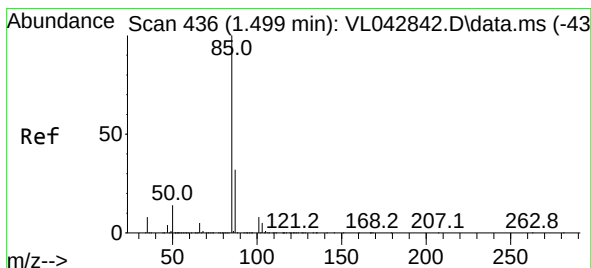
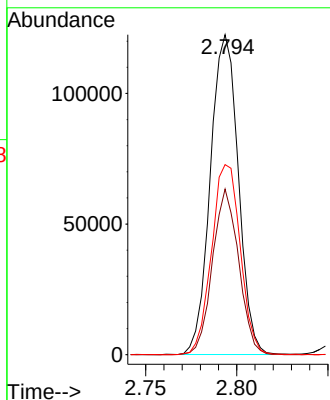
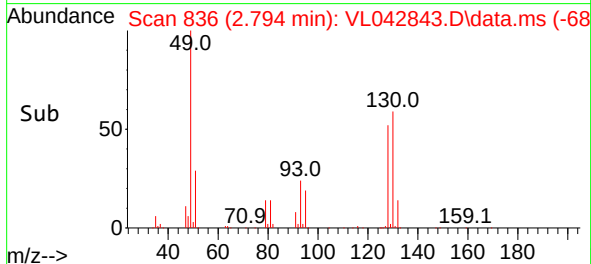
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

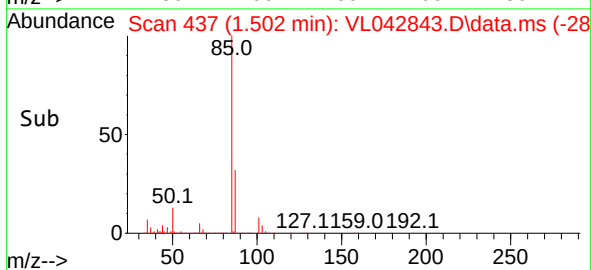
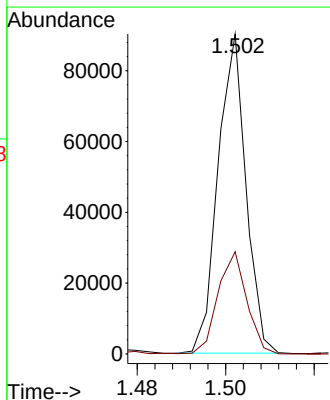
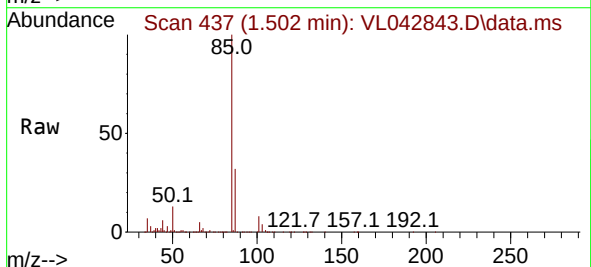
Manual Integrations
APPROVED

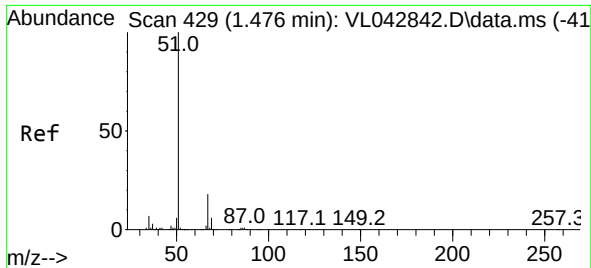
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

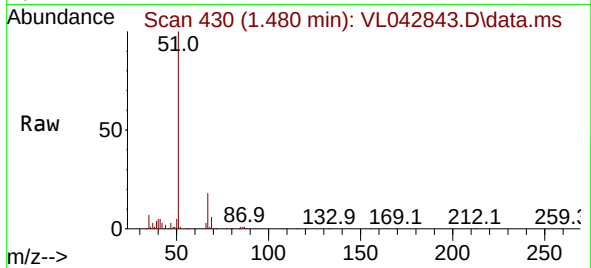
Tgt Ion: 85 Resp: 39443
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9





#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

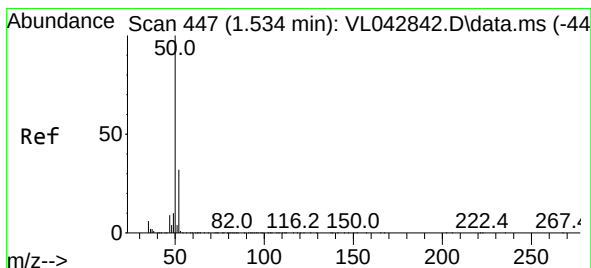
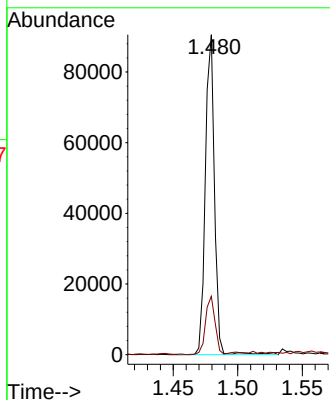
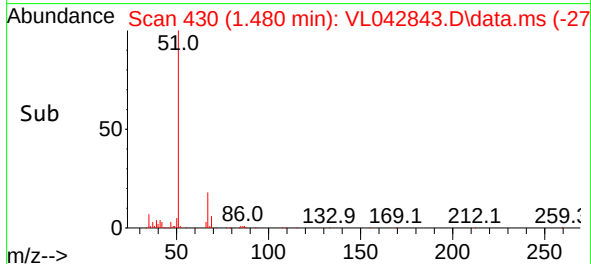
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



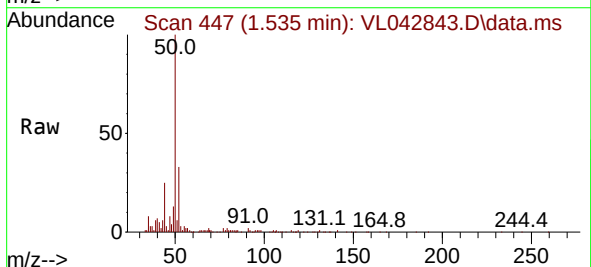
Tgt Ion: 51 Resp: 44759
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3

Manual Integrations
APPROVED

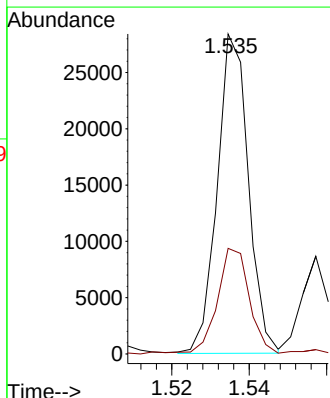
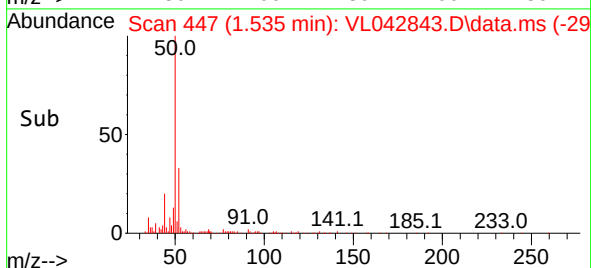
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

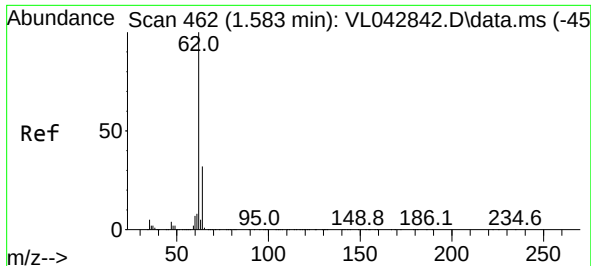


#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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





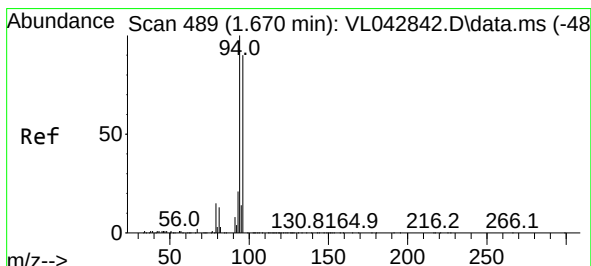
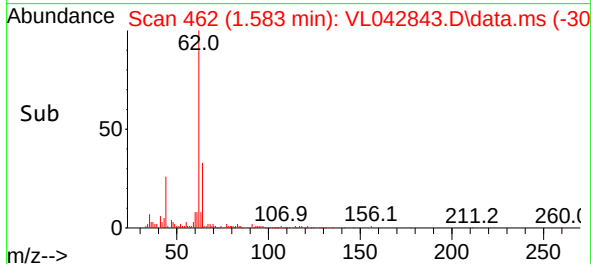
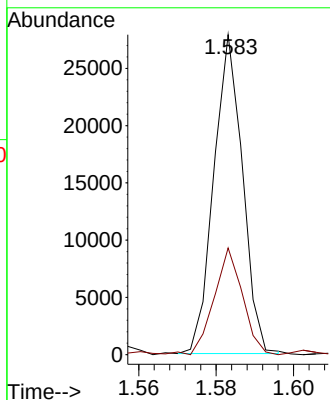
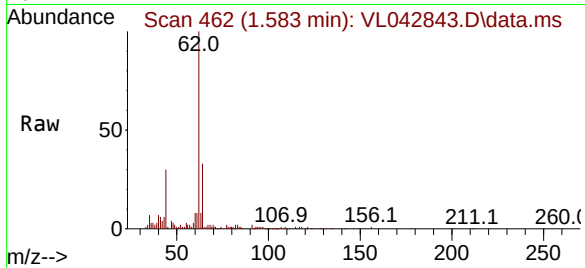
#5
 Vinyl Chloride
 Concen: 1.888 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

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

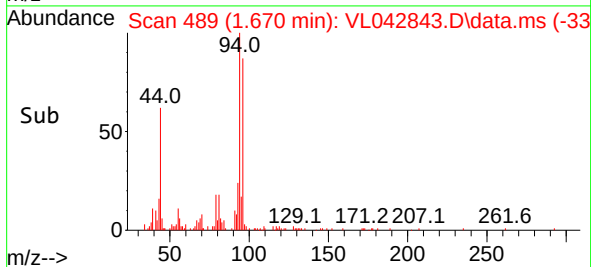
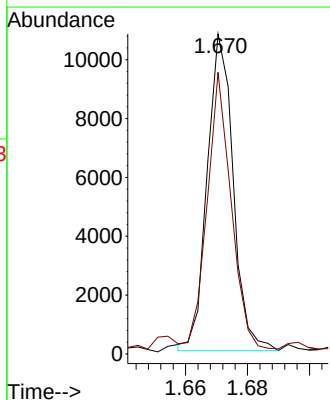
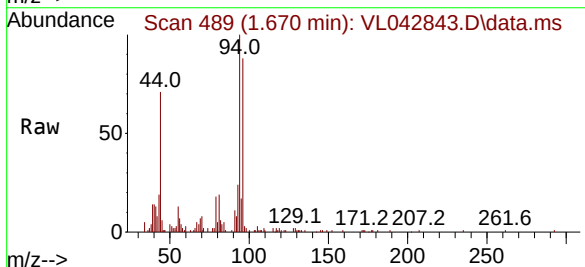
Manual Integrations
 APPROVED

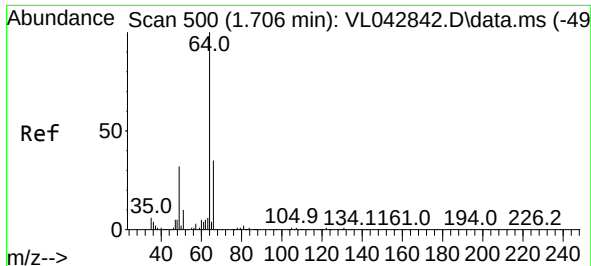
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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

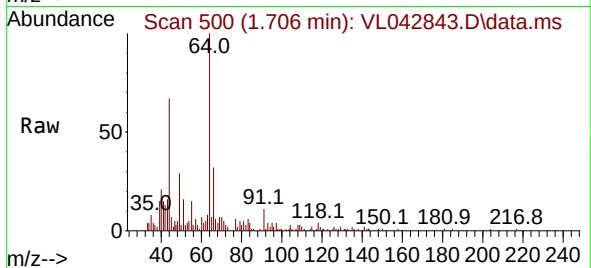
Tgt Ion: 94 Resp: 6248
 Ion Ratio Lower Upper
 94 100
 96 87.4 72.1 108.1





#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

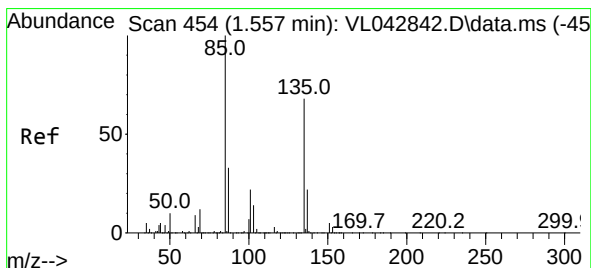
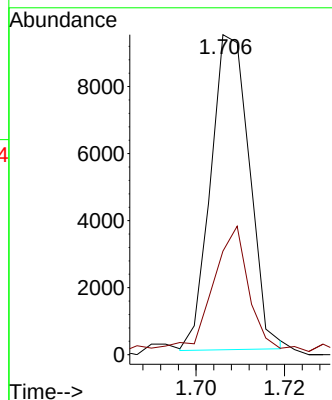
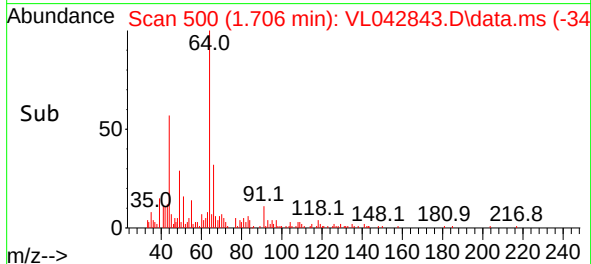
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



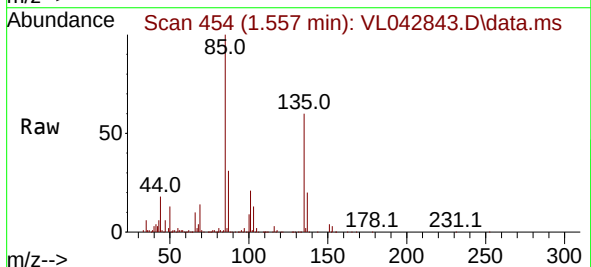
Tgt Ion: 64 Resp: 571
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8

Manual Integrations
APPROVED

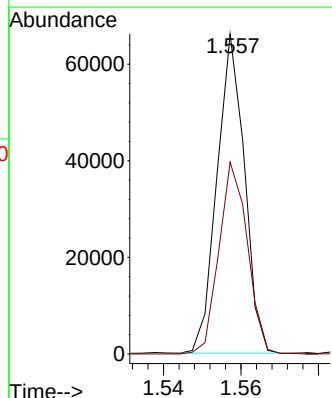
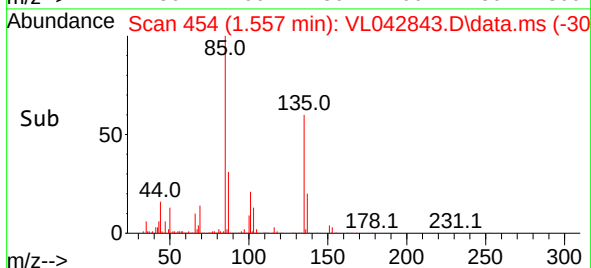
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

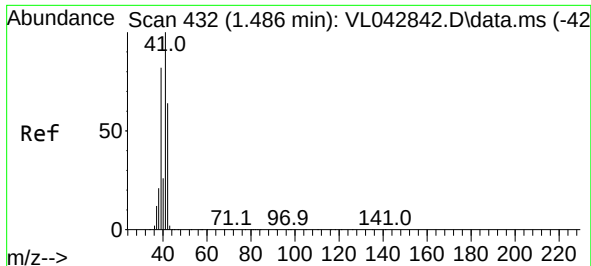


#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



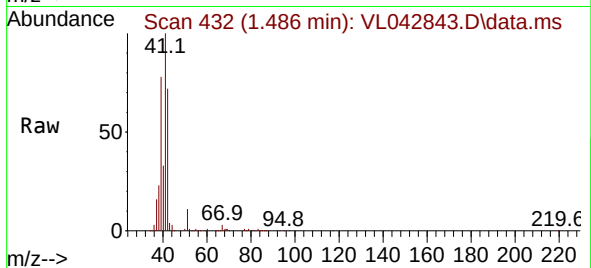
Tgt Ion: 85 Resp: 32496
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#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

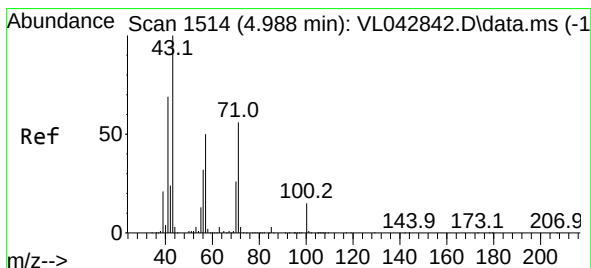
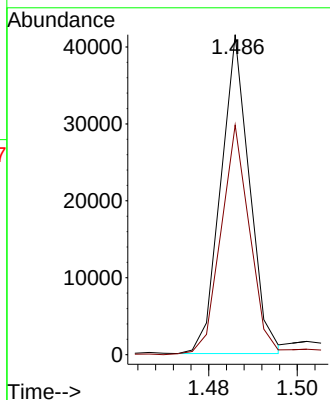
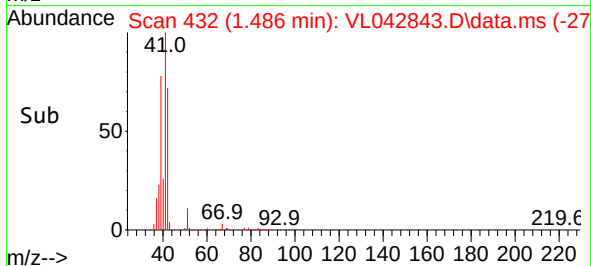
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



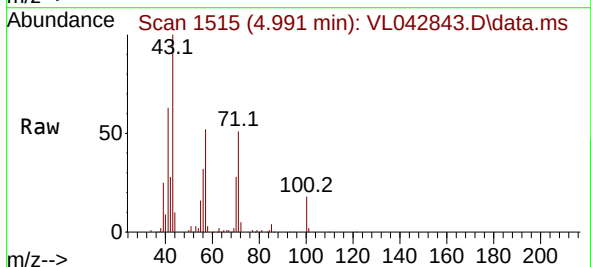
Tgt Ion: 41 Resp: 18678
Ion Ratio Lower Upper
41 100
42 74.8 53.0 79.4

Manual Integrations
APPROVED

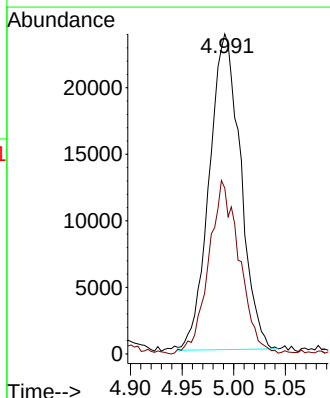
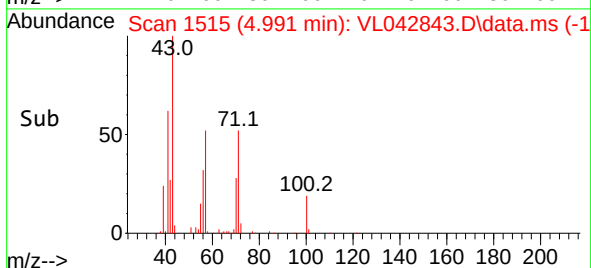
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

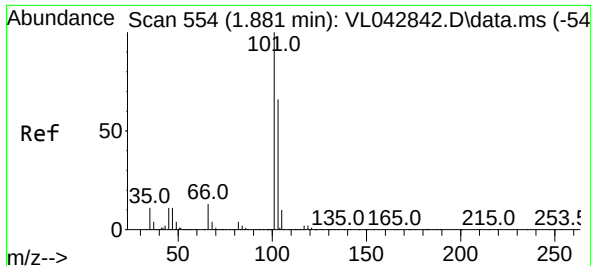


#10
Heptane
Concen: 2.050 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



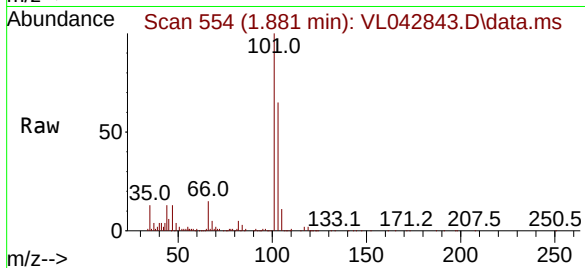
Tgt Ion: 43 Resp: 50062
Ion Ratio Lower Upper
43 100
57 54.1 41.4 62.0





#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

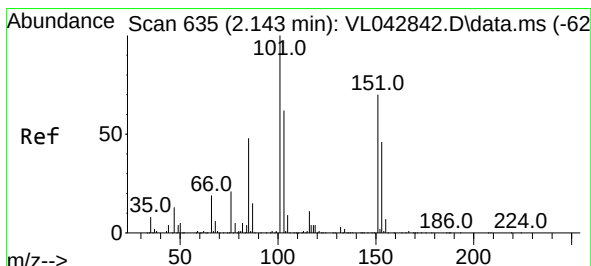
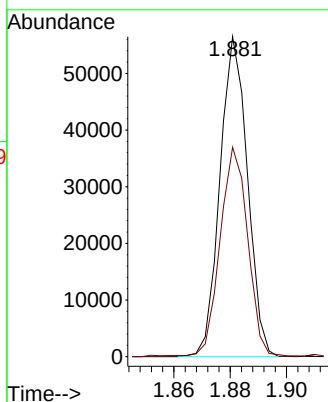
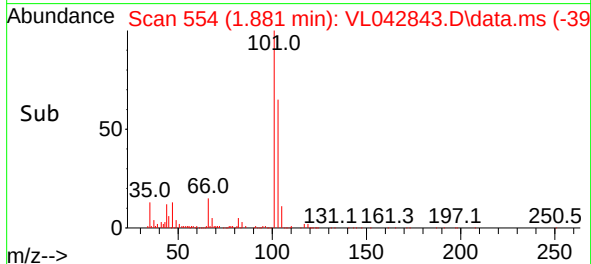
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



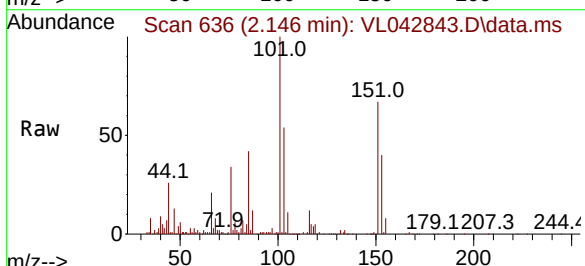
Tgt Ion:101 Resp: 38308
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.5 78.7

Manual Integrations
 APPROVED

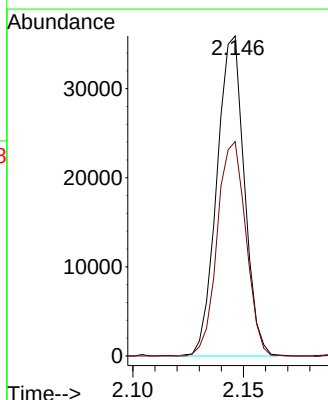
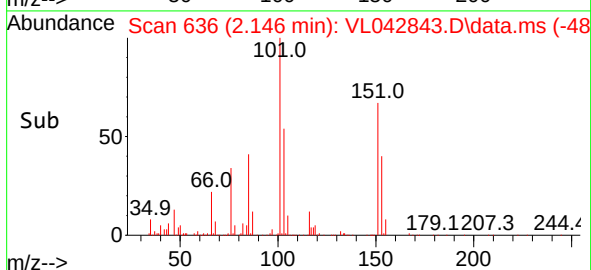
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

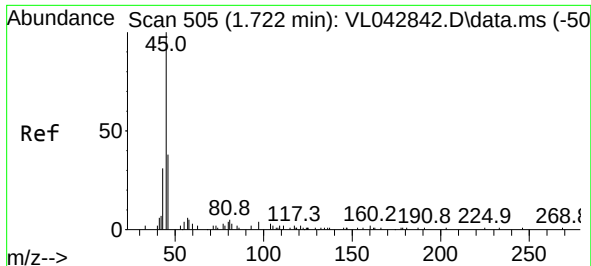


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.064 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



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





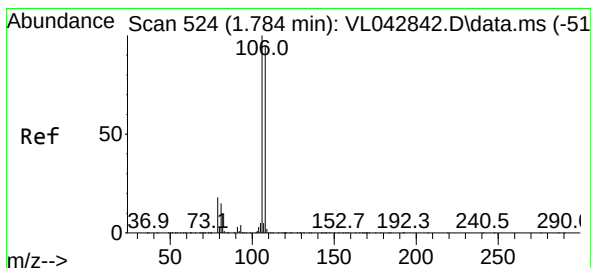
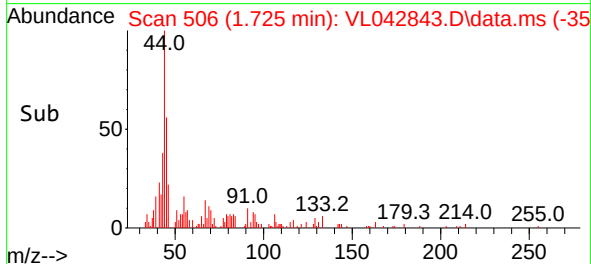
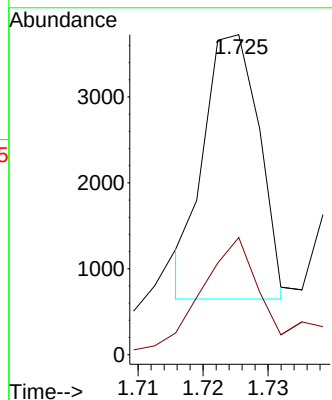
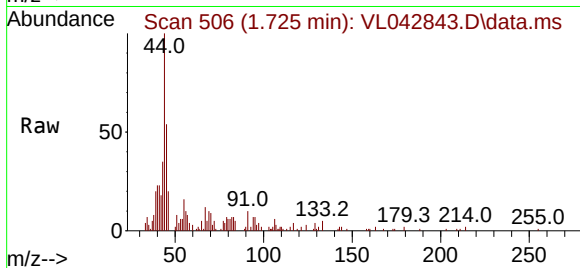
#13
Ethanol
Concen: 2.008 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

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

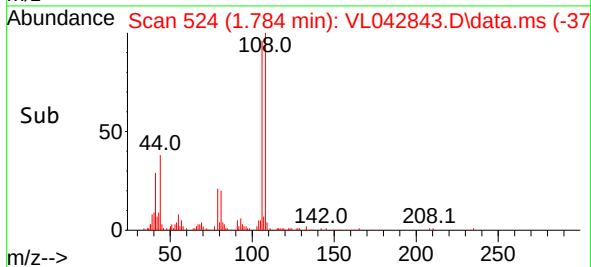
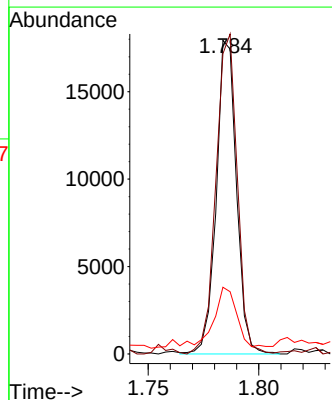
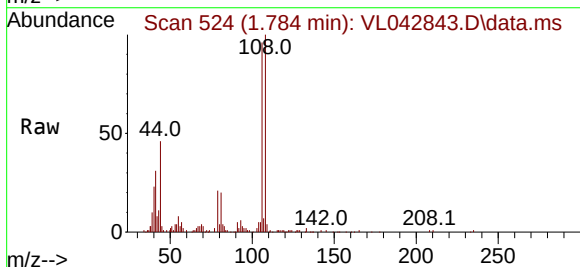
Manual Integrations
APPROVED

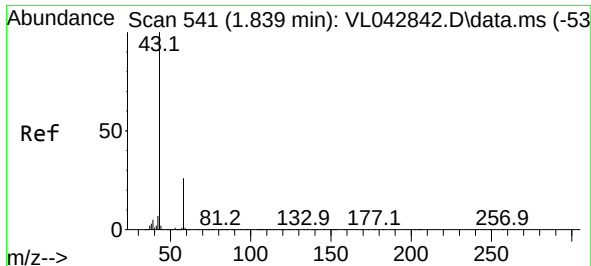
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

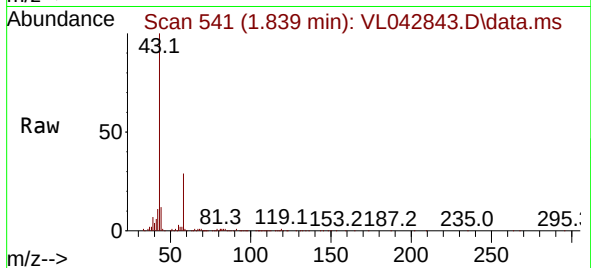
Tgt Ion:108 Resp: 11376
Ion Ratio Lower Upper
108 100
106 110.8 85.1 127.7
79 22.6 16.3 24.5





#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

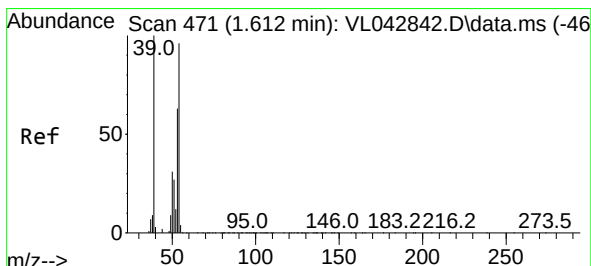
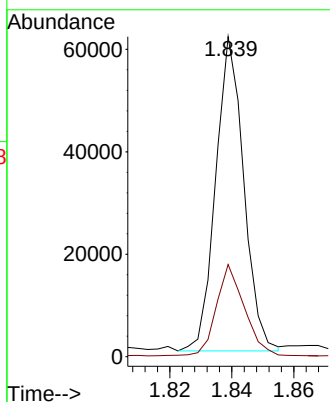
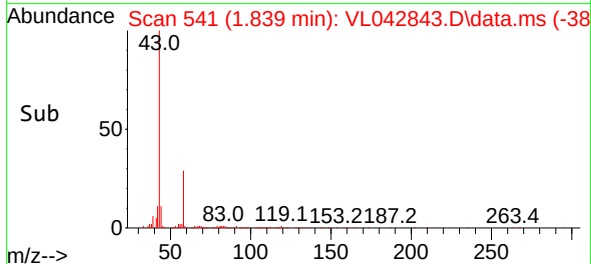
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



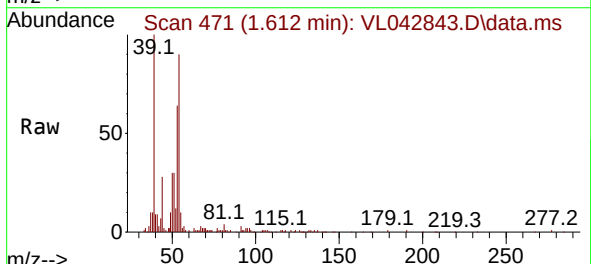
Tgt Ion: 43 Resp: 3853
Ion Ratio Lower Upper
43 100
58 30.3 22.4 33.6

Manual Integrations
APPROVED

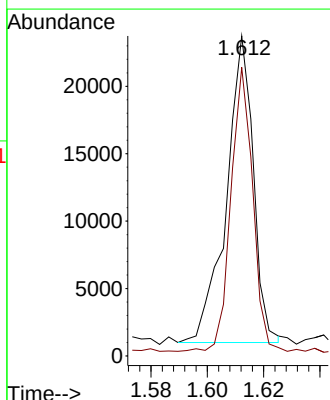
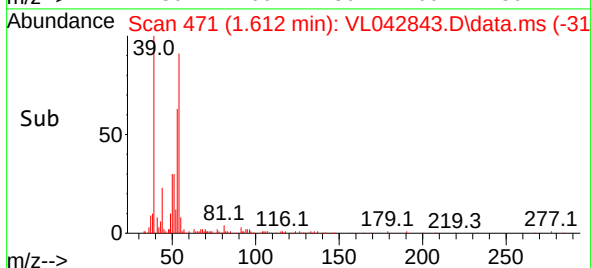
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

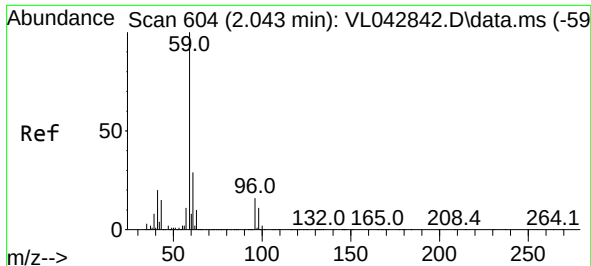


#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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





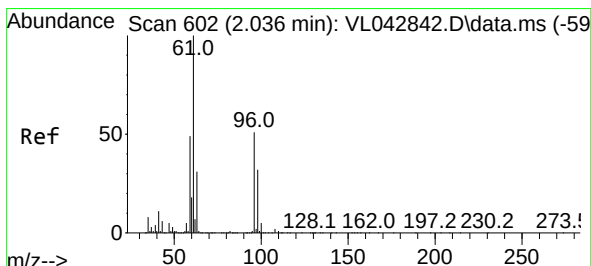
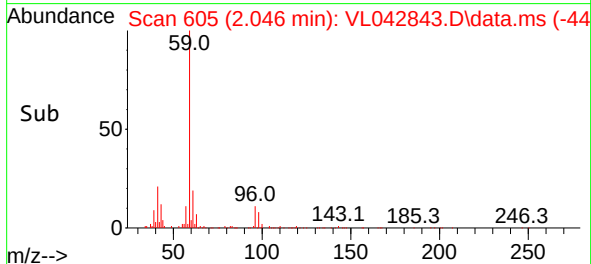
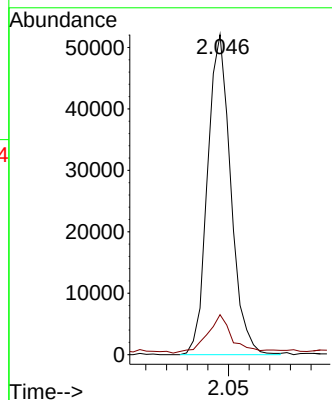
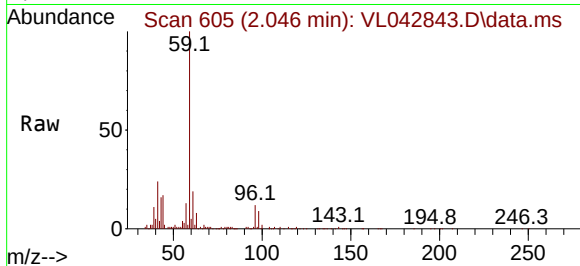
#17
tert-Butyl alcohol
Concen: 1.985 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

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

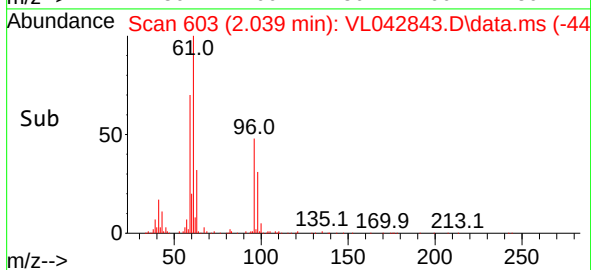
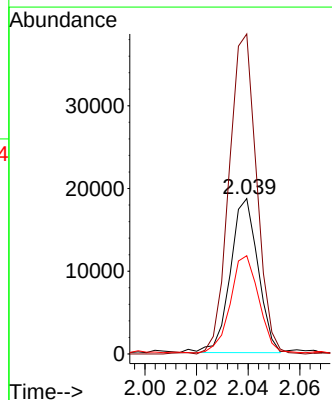
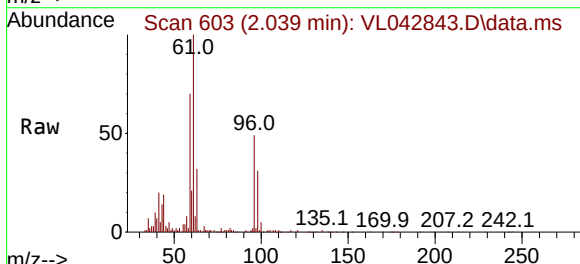
Manual Integrations
APPROVED

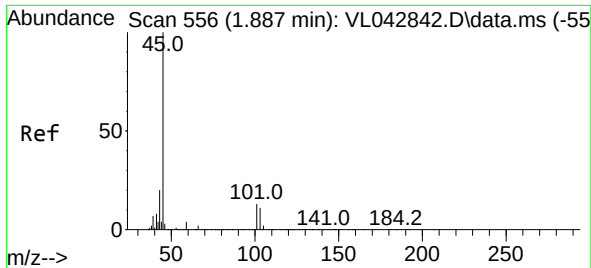
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

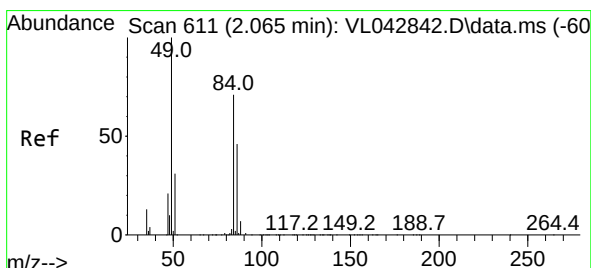
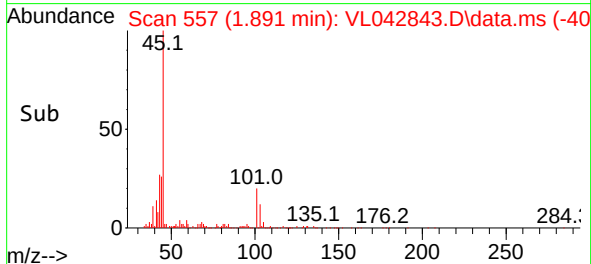
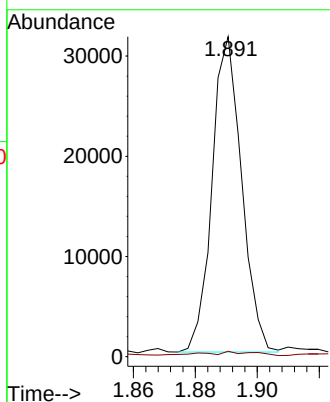
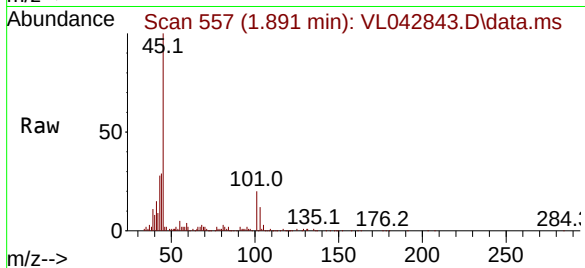
VSTDIC002

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

Manual Integrations

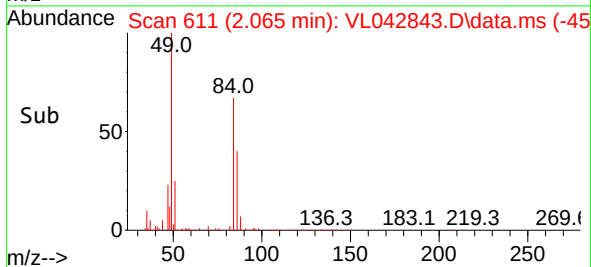
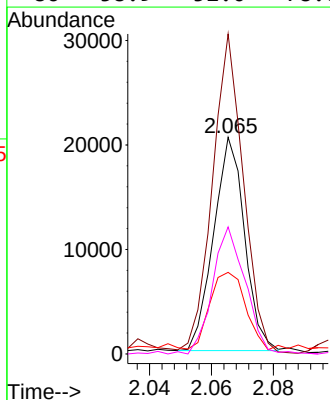
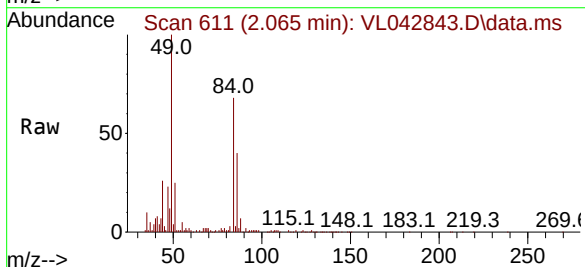
APPROVED

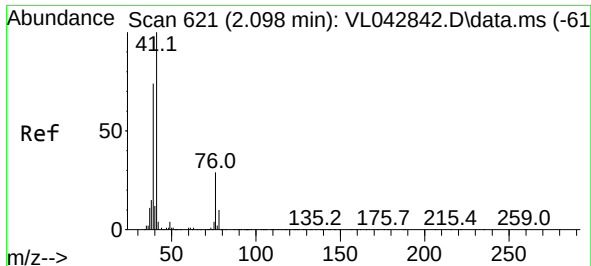
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

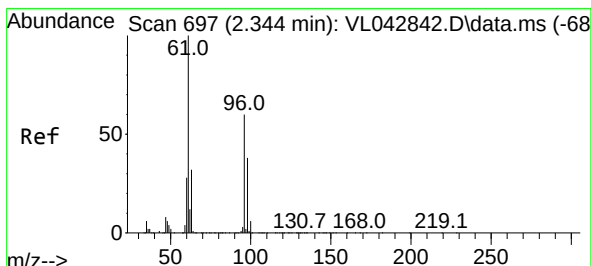
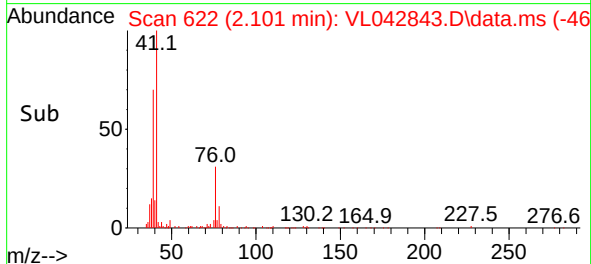
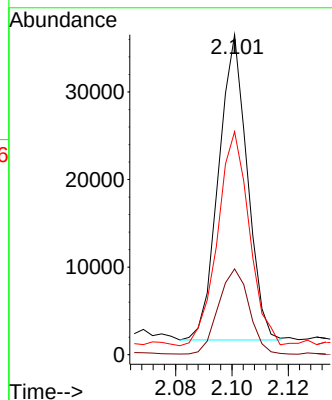
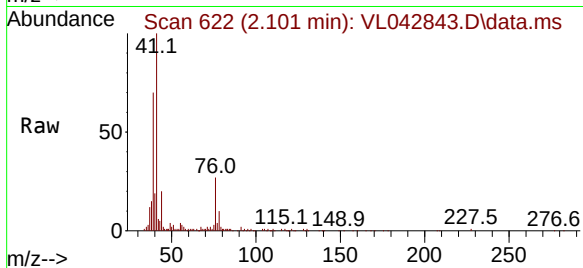
VSTDIC002

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

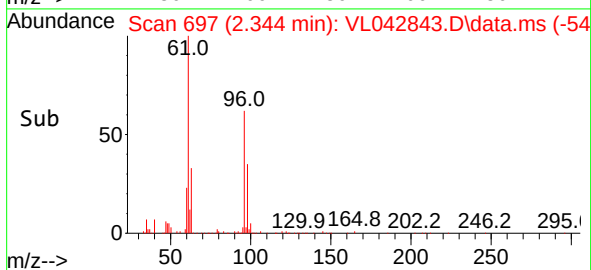
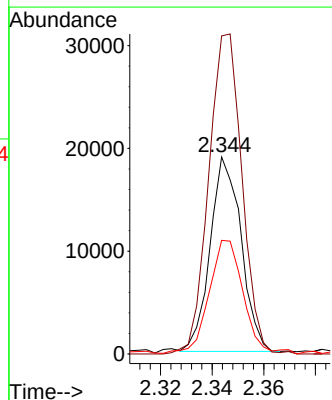
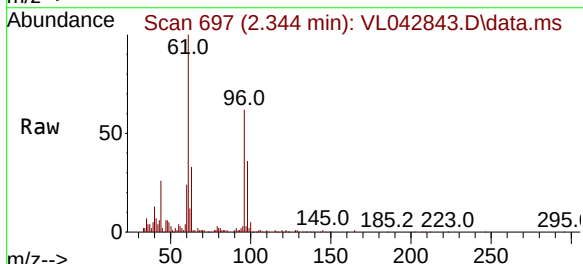
APPROVED

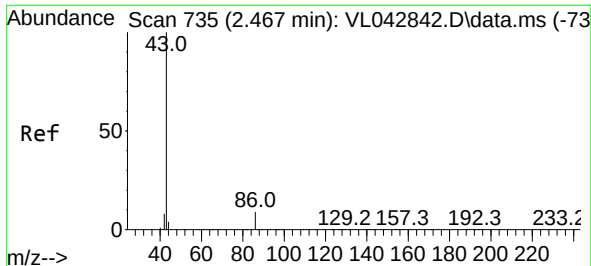
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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





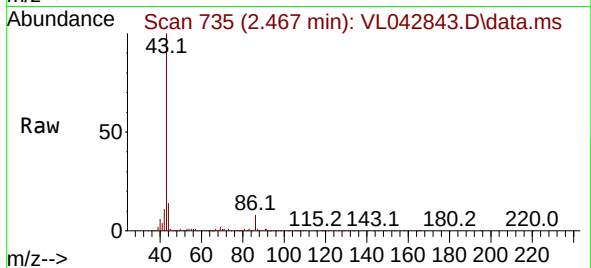
#23
 Vinyl Acetate
 Concen: 2.125 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

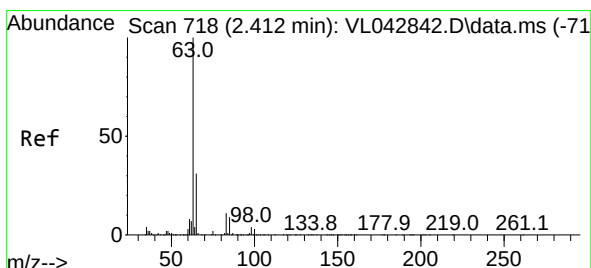
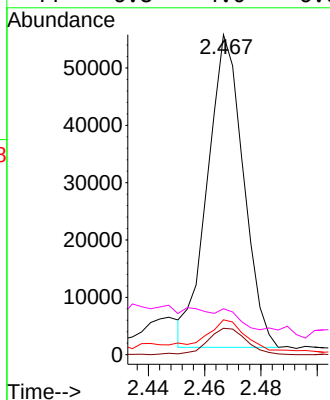
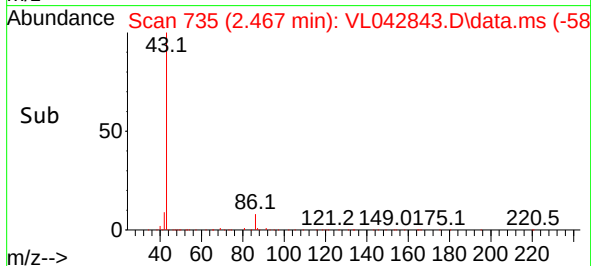


Tgt Ion: 43 Resp: 48269
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.6 9.8
 42 9.7 7.0 10.6
 44 6.8 4.0 6.0#

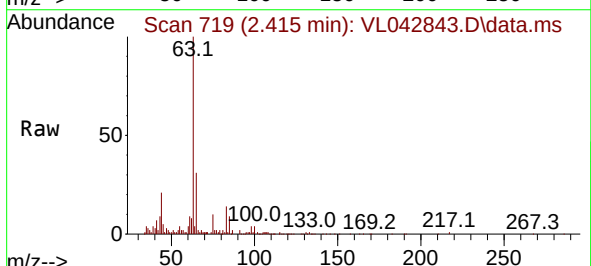
Manual Integrations

APPROVED

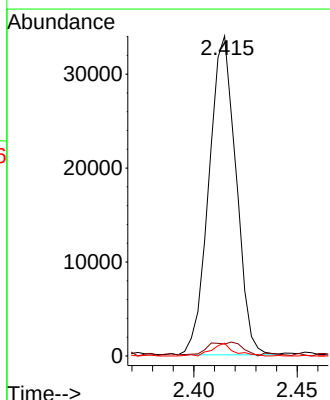
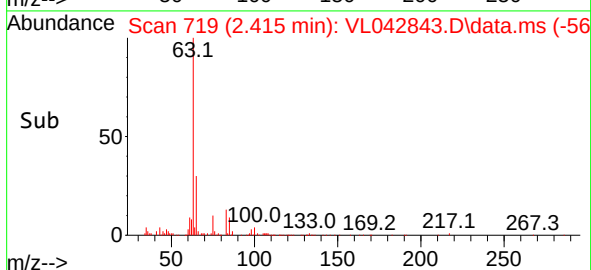
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

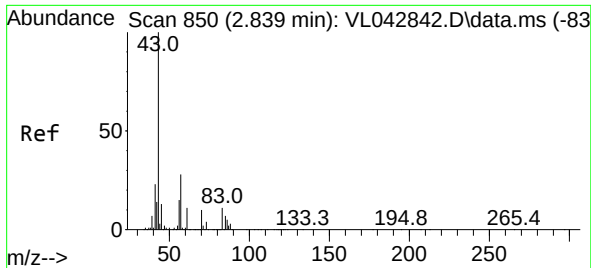


#24
 1,1-Dichloroethane
 Concen: 2.024 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



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 :

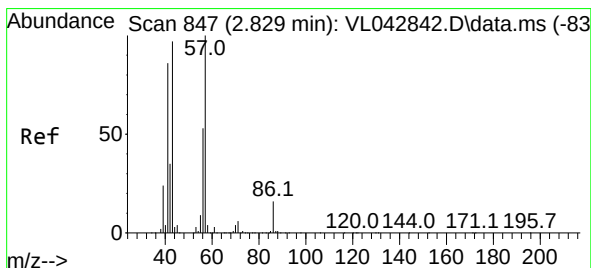
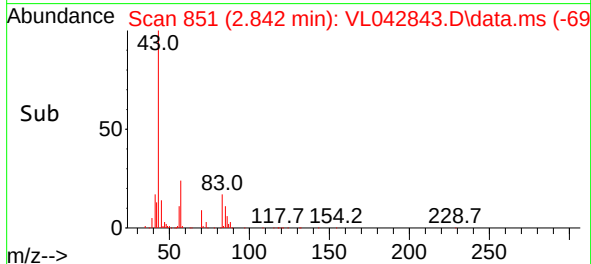
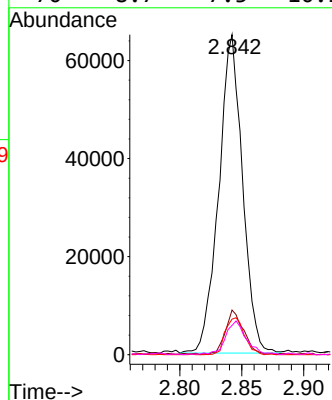
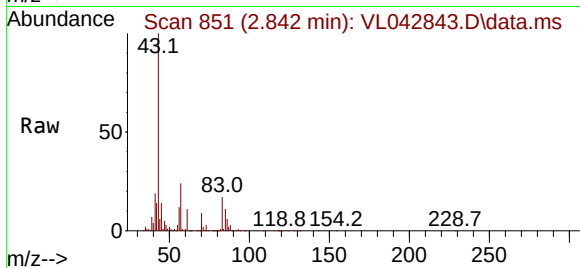
VSTDICC002

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

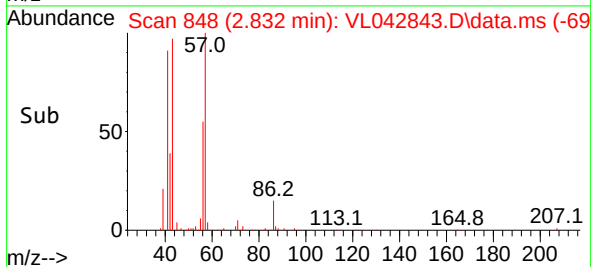
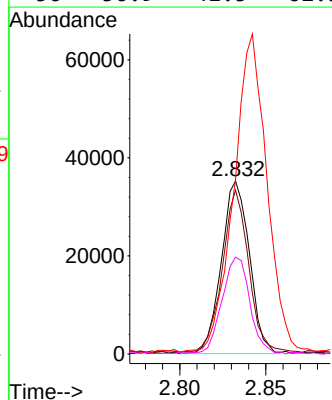
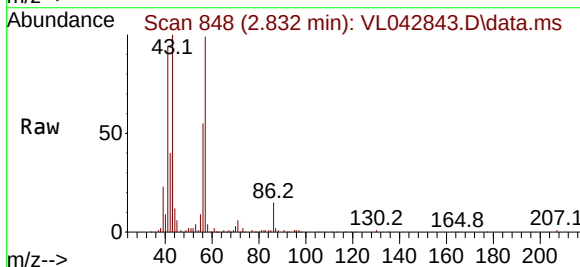
APPROVED

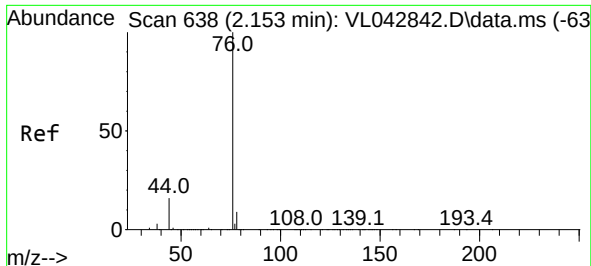
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

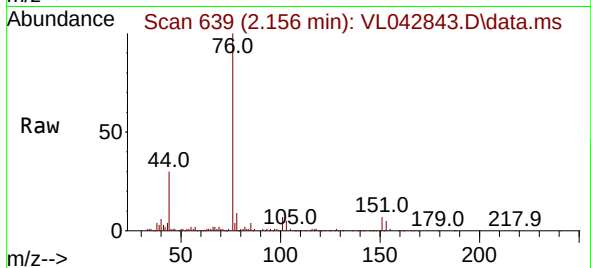
Tgt Ion: 57 Resp: 39735
Ion Ratio Lower Upper
57 100
41 90.3 68.6 103.0
43 219.4 168.5 252.7
56 56.9 41.5 62.3





#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

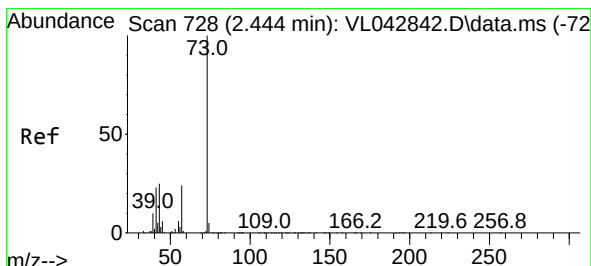
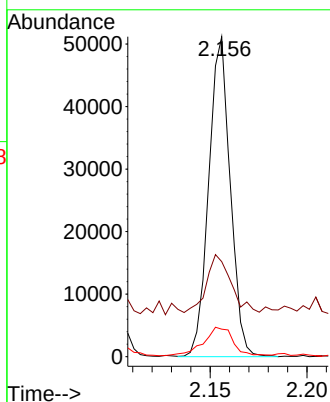
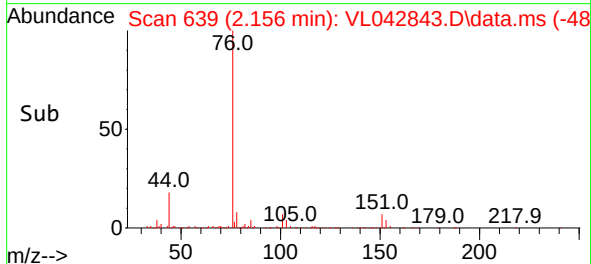
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



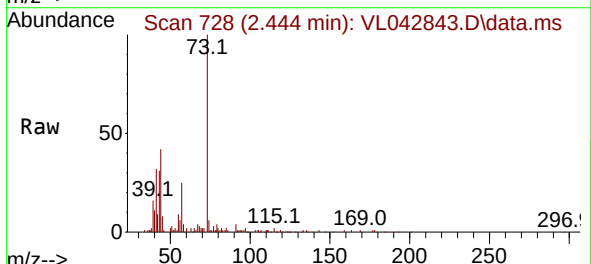
Tgt Ion: 76 Resp: 39460
Ion Ratio Lower Upper
76 100
44 81.0 15.9 23.9
78 13.8 9.5 14.3

Manual Integrations
APPROVED

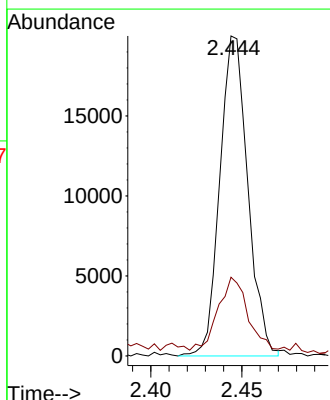
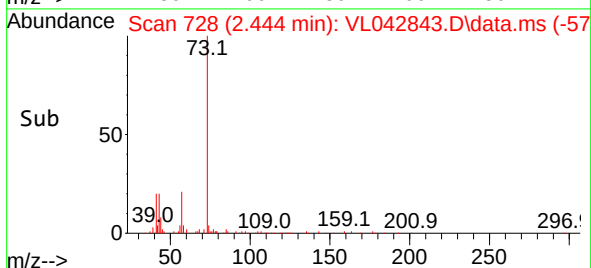
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

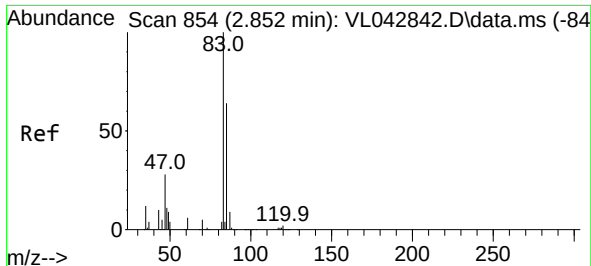


#28
Methyl tert-Butyl Ether
Concen: 2.169 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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

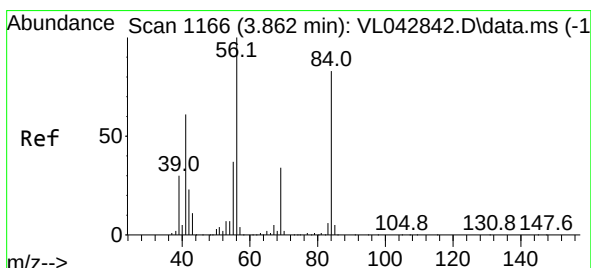
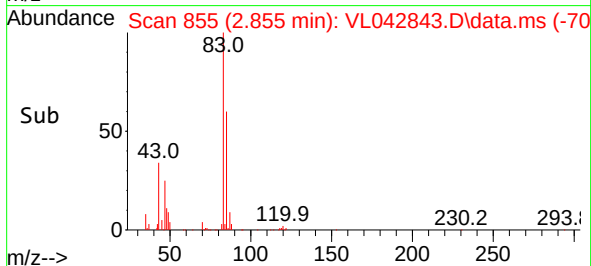
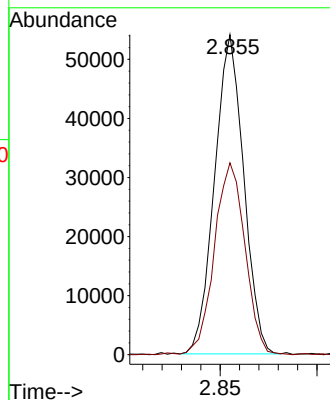
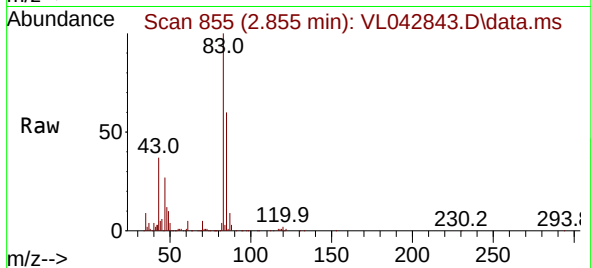
85 59.9 51.1 76.7

Manual Integrations

APPROVED

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

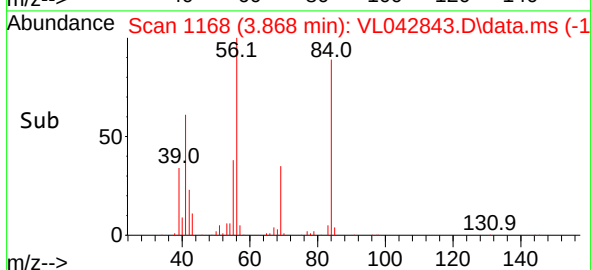
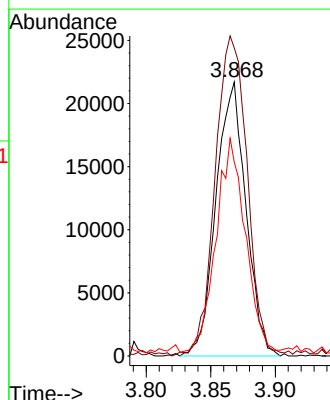
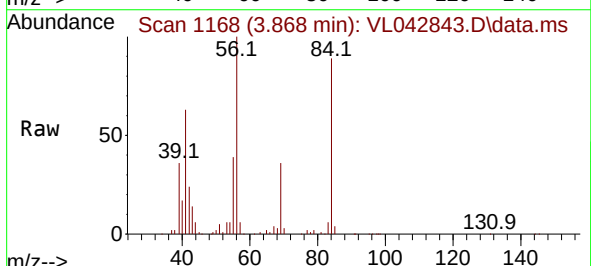
Tgt Ion: 84 Resp: 34992

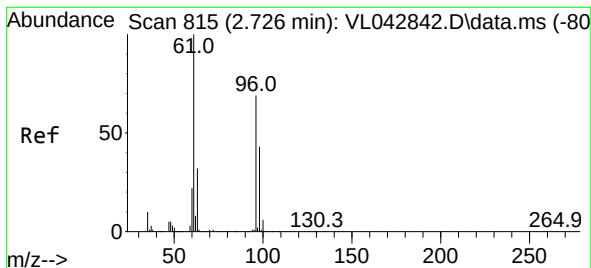
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

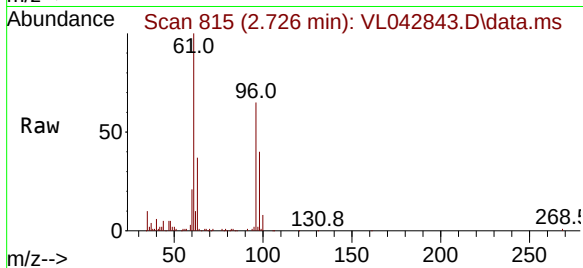
41 79.6 61.3 91.9





#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

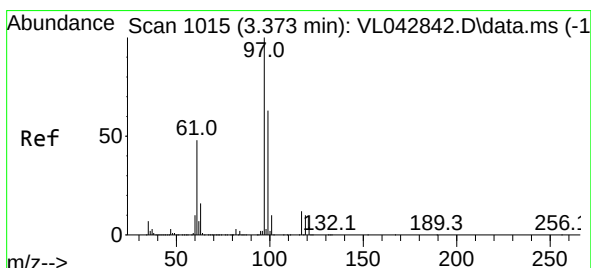
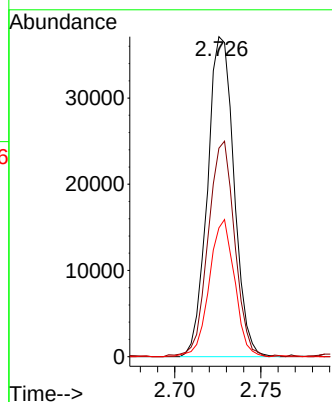
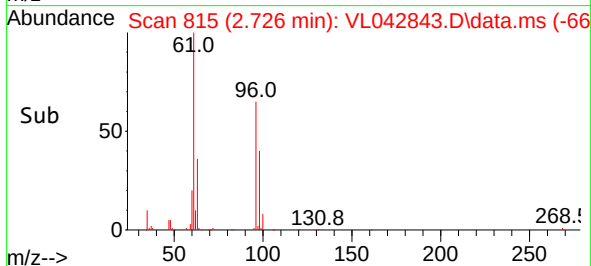
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



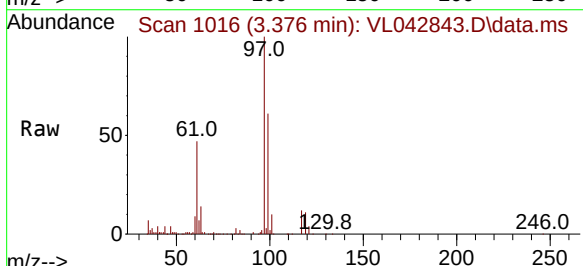
Tgt Ion: 61 Resp: 3978
 Ion Ratio Lower Upper
 61 100
 96 64.8 55.0 82.6
 98 39.9 34.3 51.5

Manual Integrations
 APPROVED

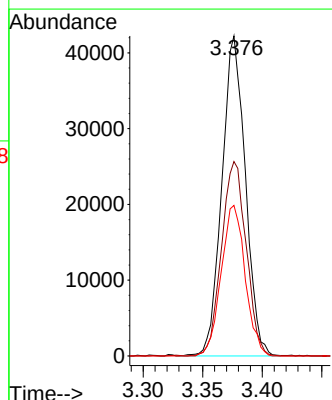
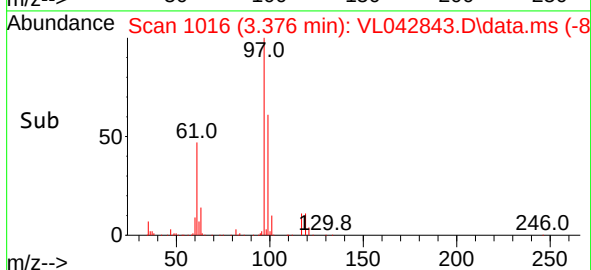
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

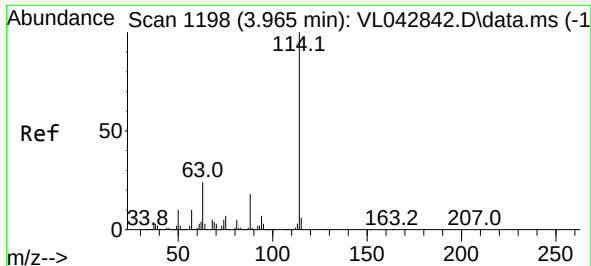


#32
 1,1,1-Trichloroethane
 Concen: 1.983 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



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 :

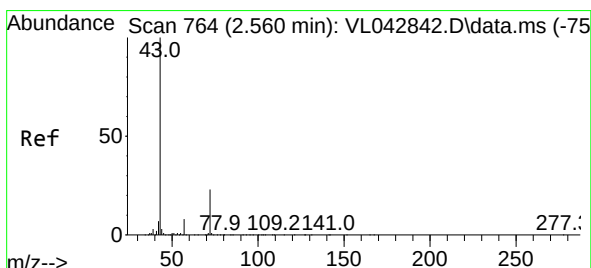
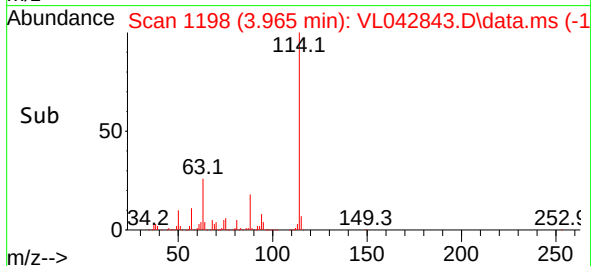
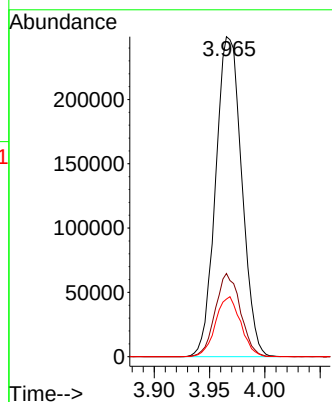
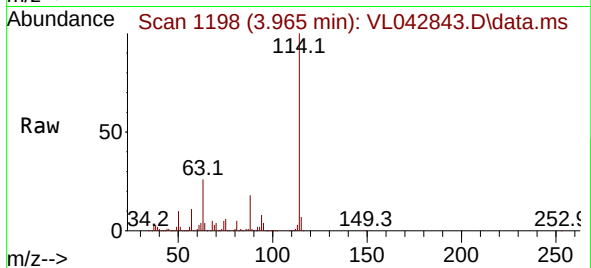
VSTDIC002

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

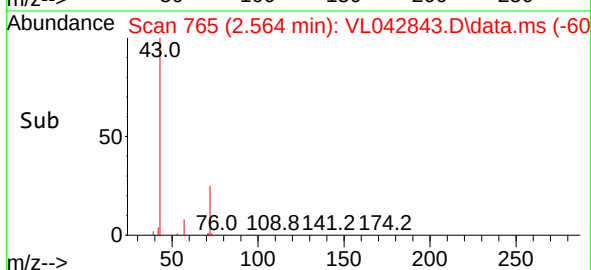
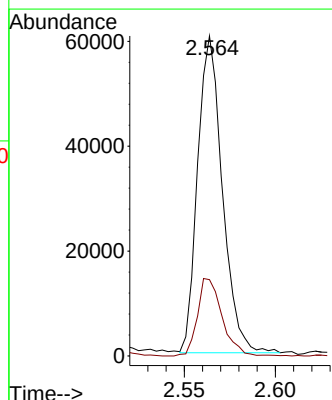
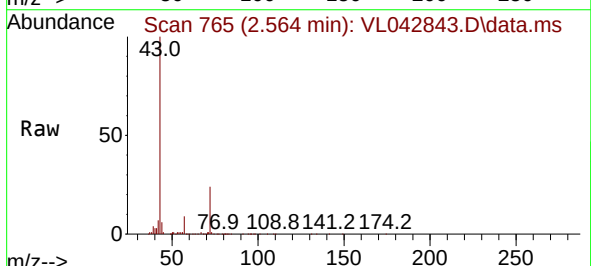
RT: 2.564 min Scan# 765

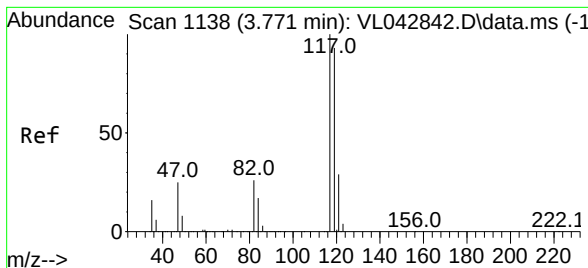
Delta R.T. 0.003 min

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

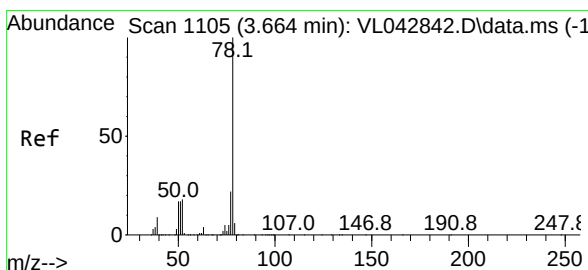
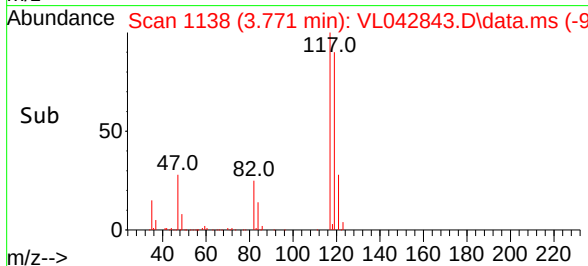
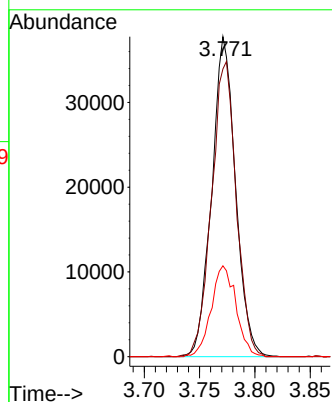
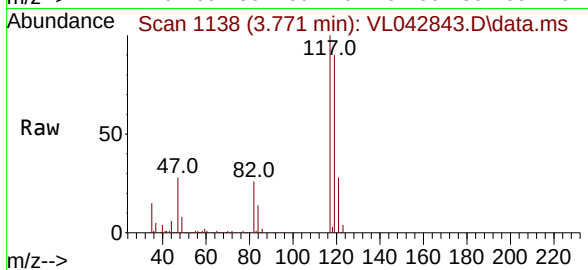
Tgt Ion: 117 Resp: 5645

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

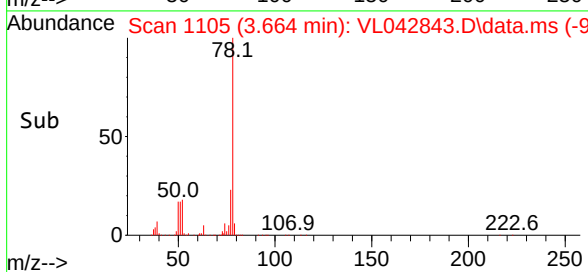
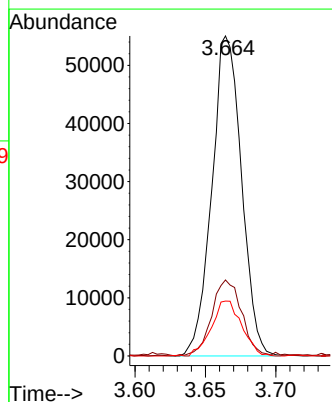
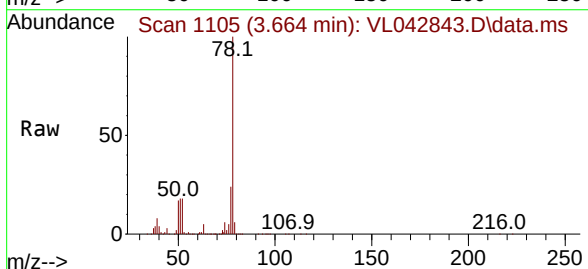
Delta R.T. 0.000 min

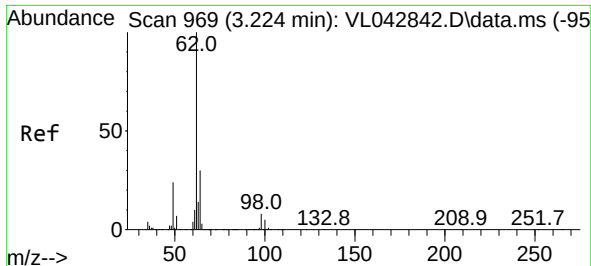
Lab File: VL042843.D

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





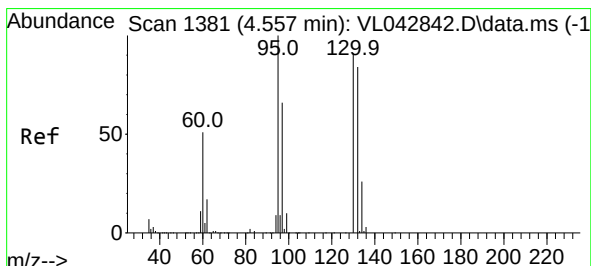
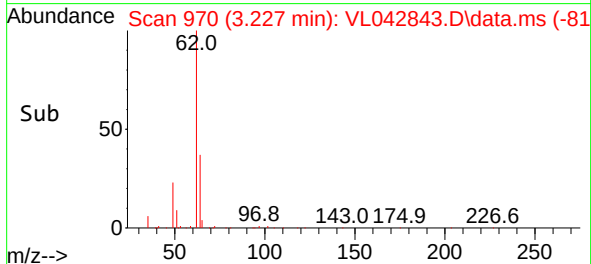
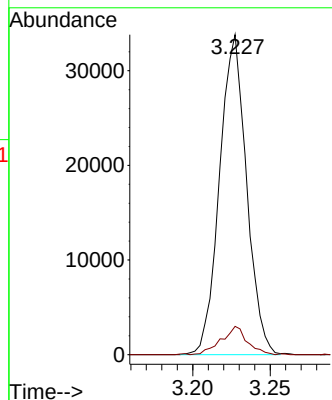
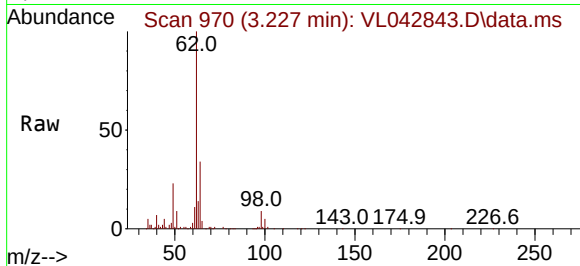
#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

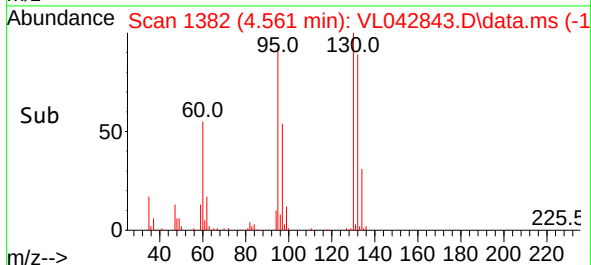
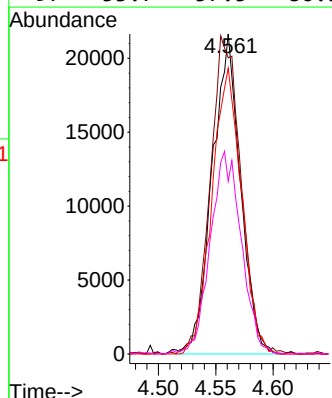
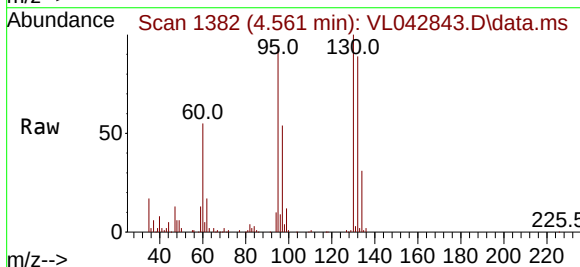
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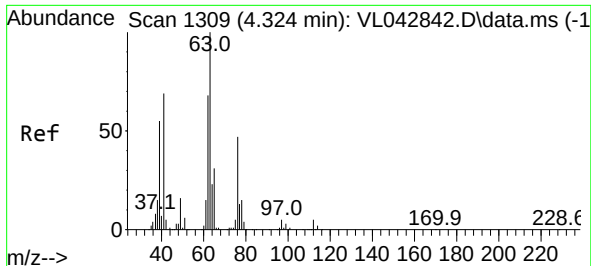
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

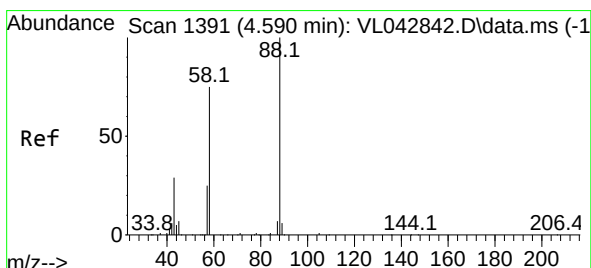
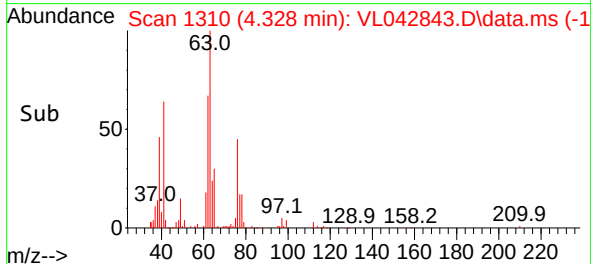
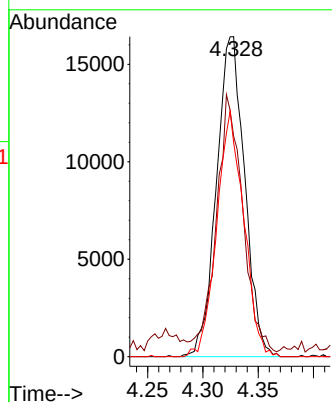
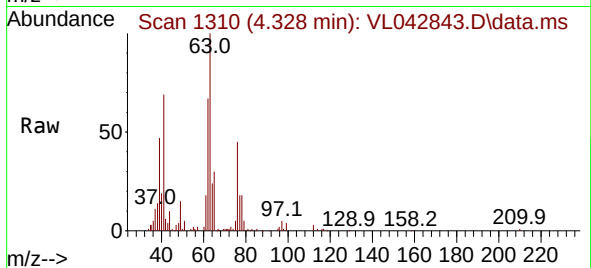
VSTDICC002

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

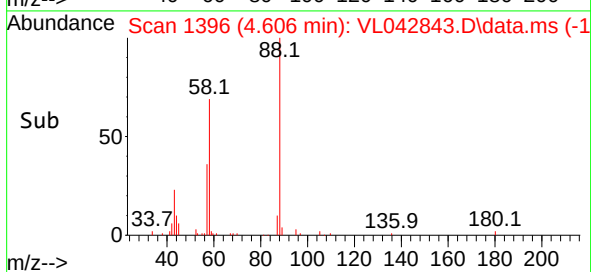
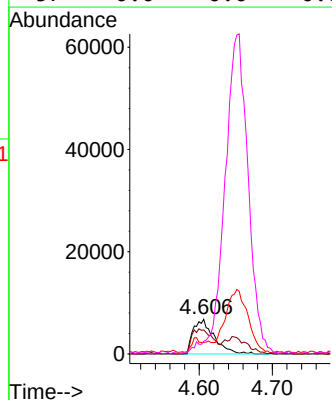
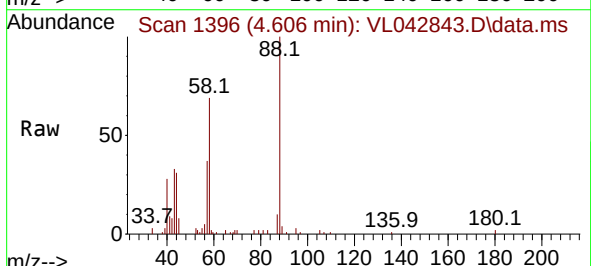
RT: 4.606 min Scan# 1396

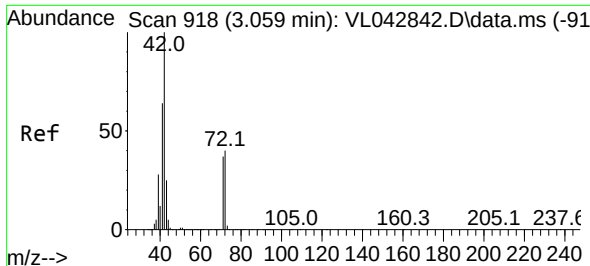
Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

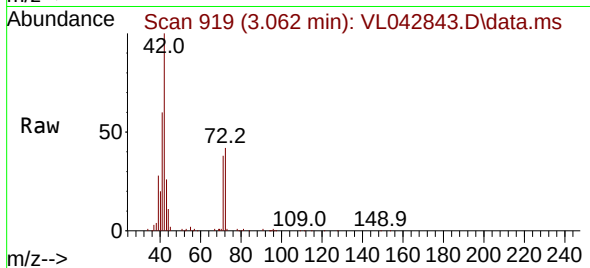
Tgt Ion: 88	Resp: 13510
Ion Ratio	Lower Upper
88 100	
58 69.3	53.8 80.6
43 0.0	22.8 34.2#
57 0.0	0.0 0.0





#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

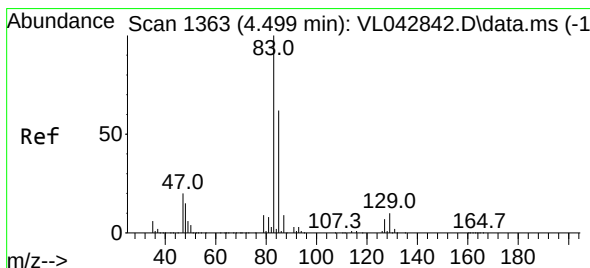
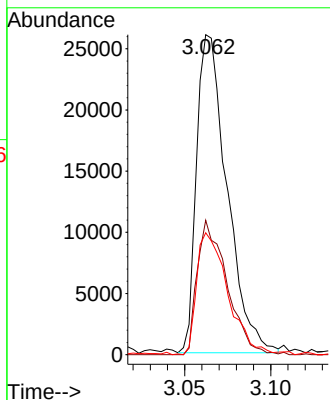
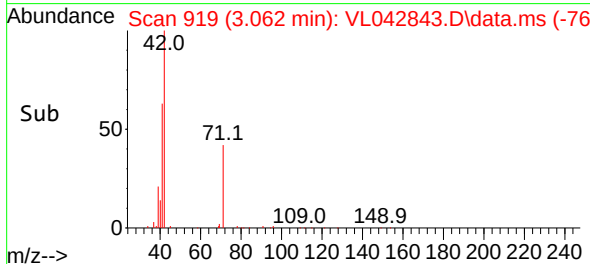
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

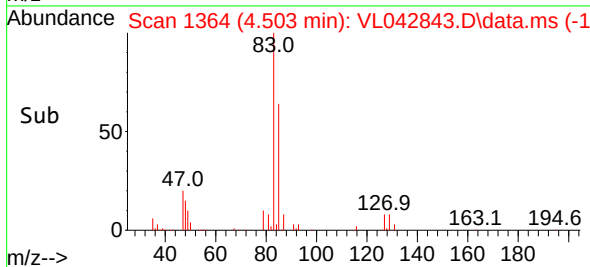
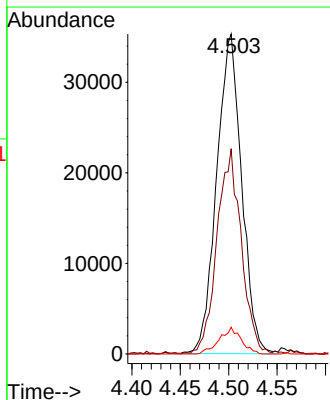
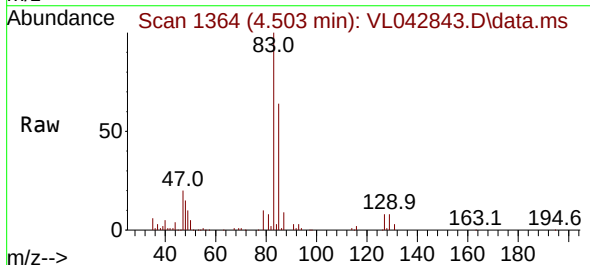
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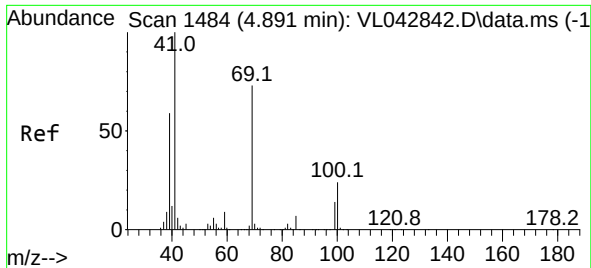
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

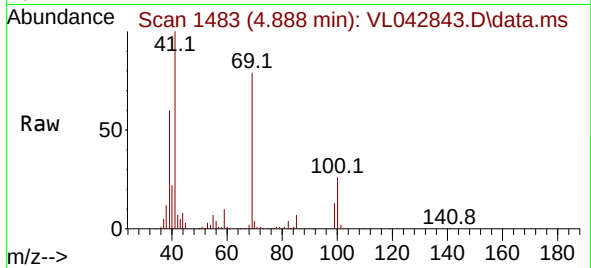
Tgt Ion: 83 Resp: 63436
Ion Ratio Lower Upper
83 100
85 64.2 49.8 74.8
127 8.4 5.8 8.6





#43
Methyl Methacrylate
Concen: 2.111 ppbv
RT: 4.888 min Scan# 1411
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

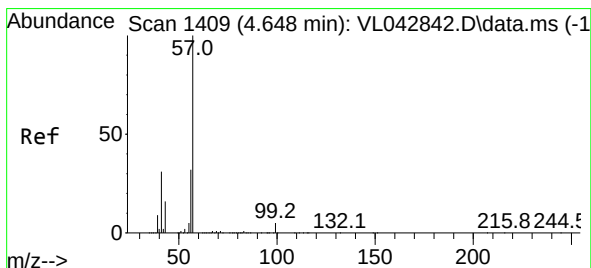
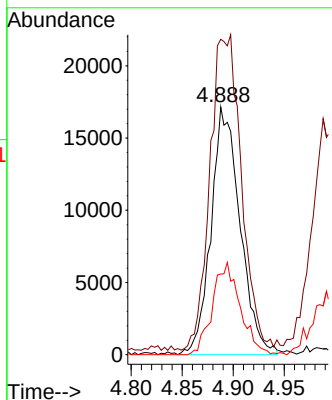
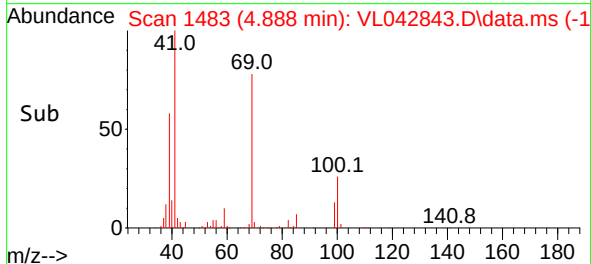
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



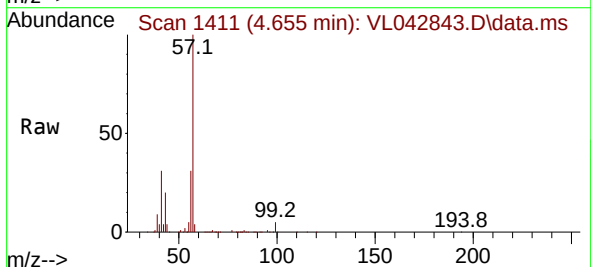
Tgt Ion: 69 Resp: 3385
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 0.0 30.2 45.4

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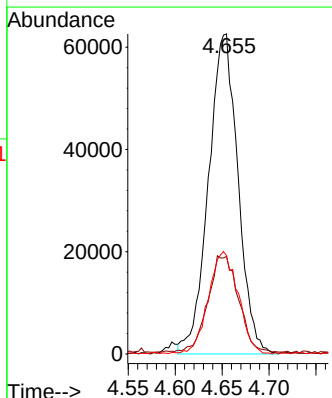
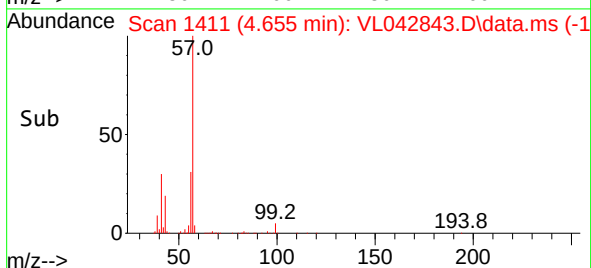
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

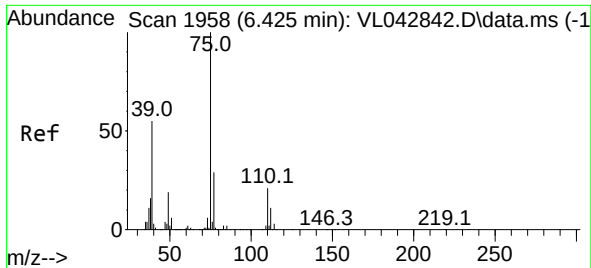


#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



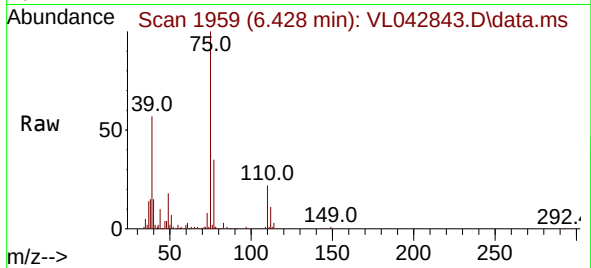
Tgt Ion: 57 Resp: 136794
Ion Ratio Lower Upper
57 100
41 32.5 24.8 37.2
56 32.6 25.5 38.3





#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

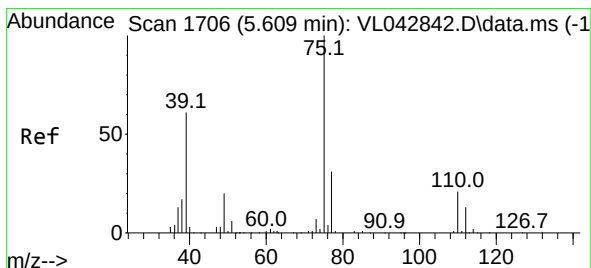
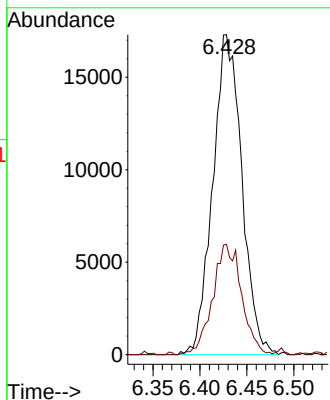
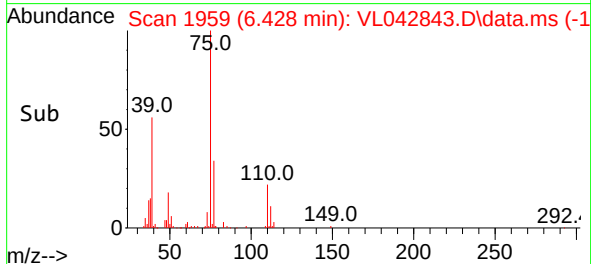
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



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

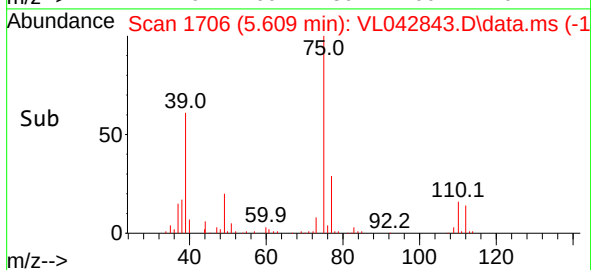
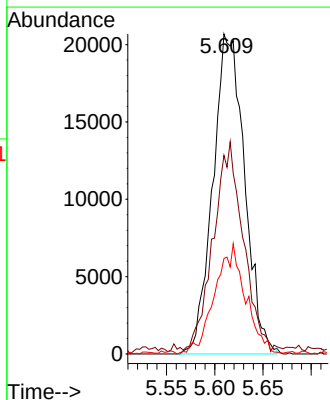
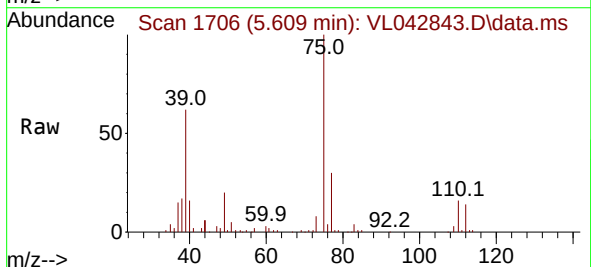
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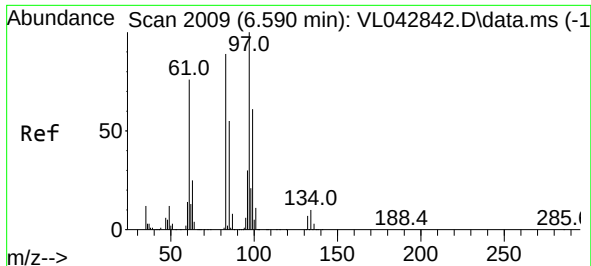
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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 :

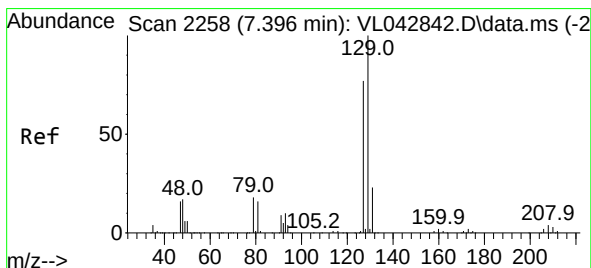
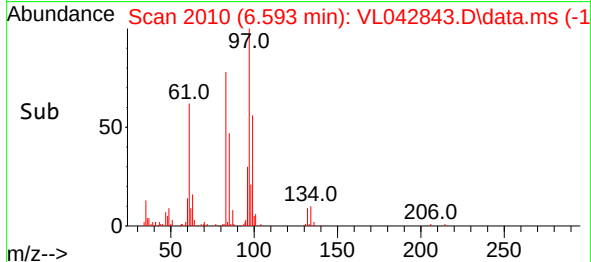
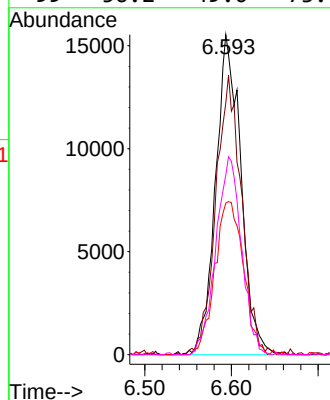
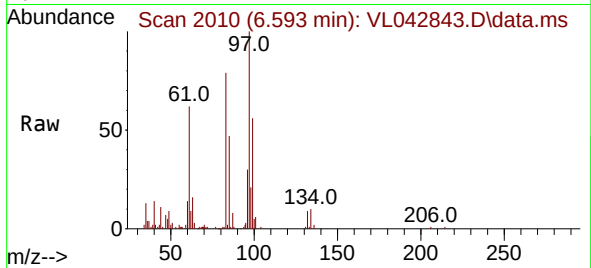
VSTDICC002

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

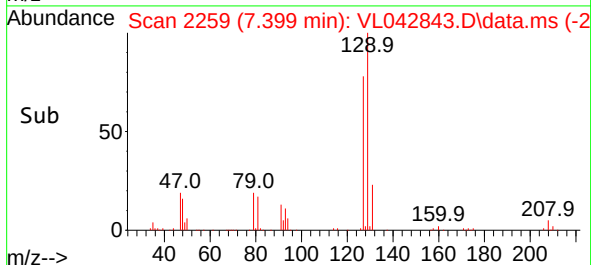
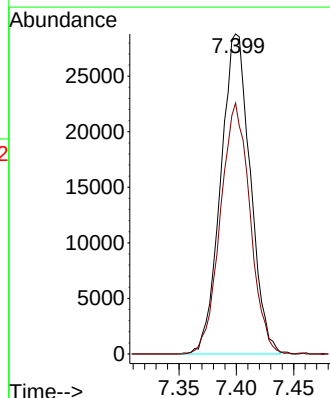
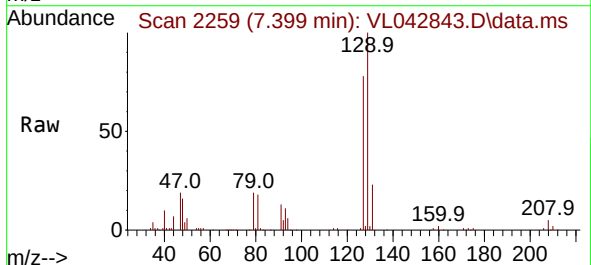
RT: 7.399 min Scan# 2259

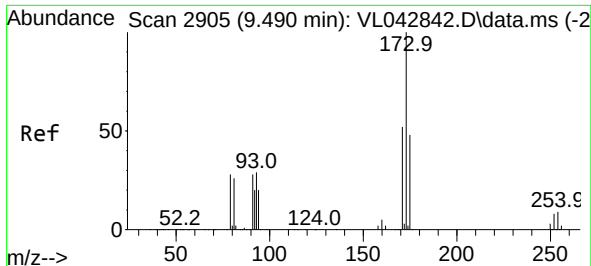
Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

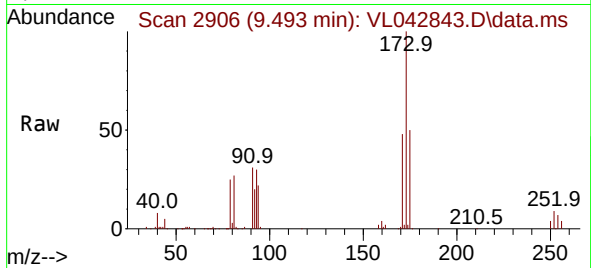
Tgt Ion:129	Resp: 51620
Ion Ratio	Lower Upper
129 100	
127 78.4	39.4 118.2





#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

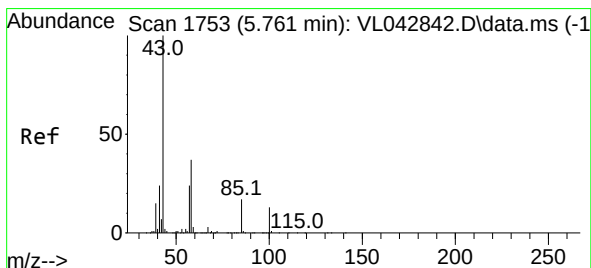
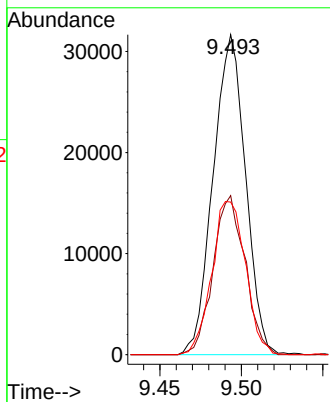
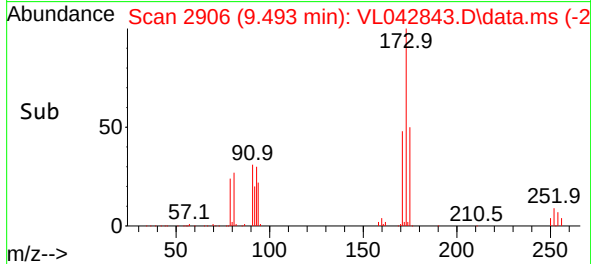
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



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

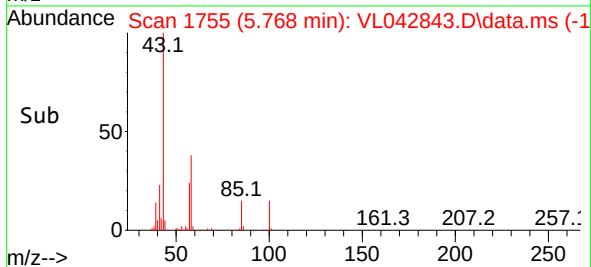
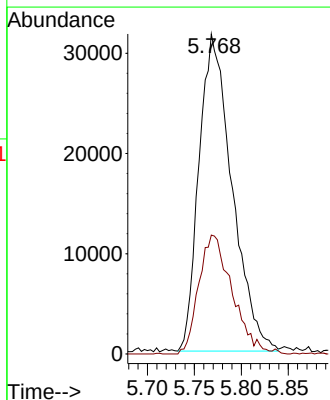
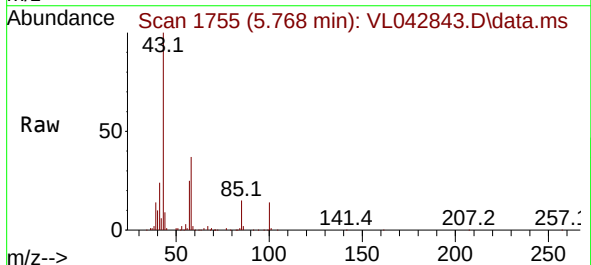
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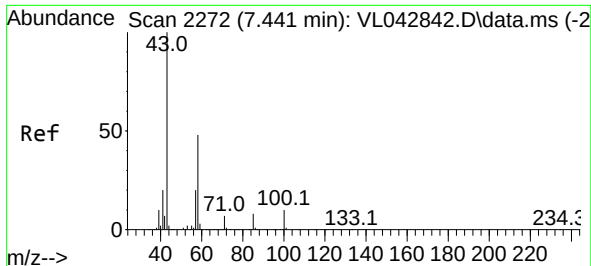
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

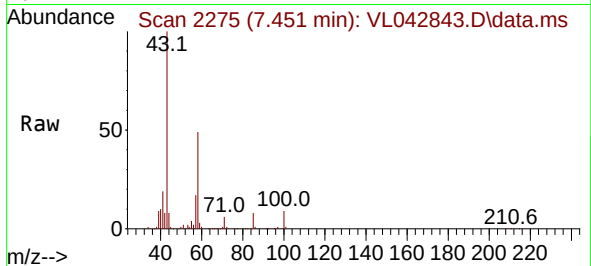
Tgt Ion: 43 Resp: 77225
Ion Ratio Lower Upper
43 100
58 38.1 29.8 44.8





#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

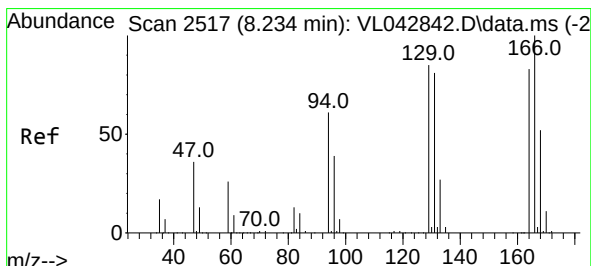
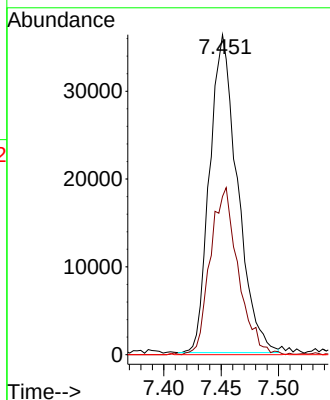
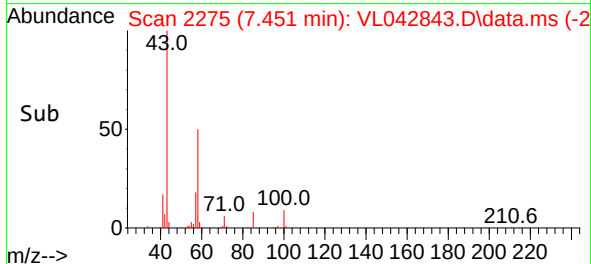
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

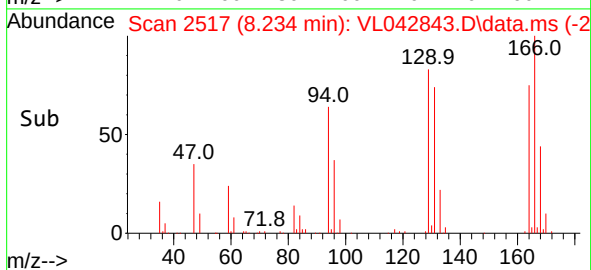
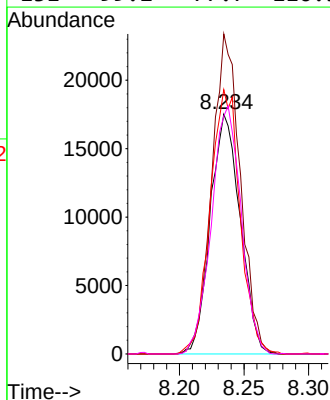
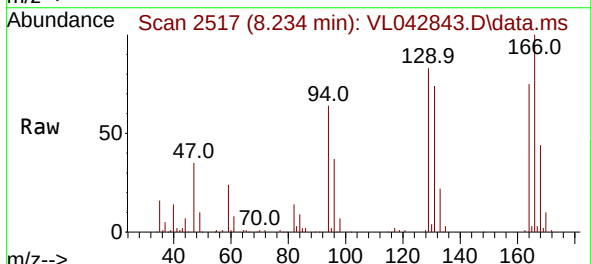
Manual Integrations
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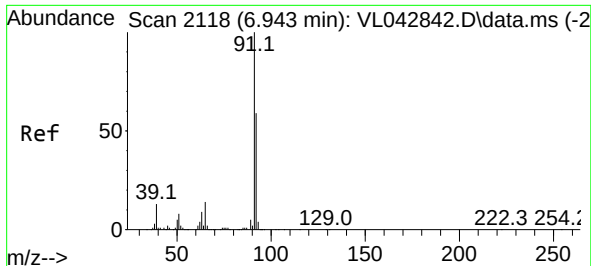
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





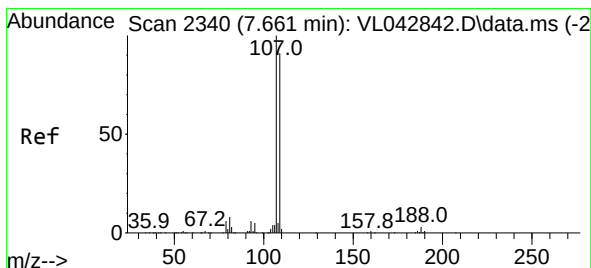
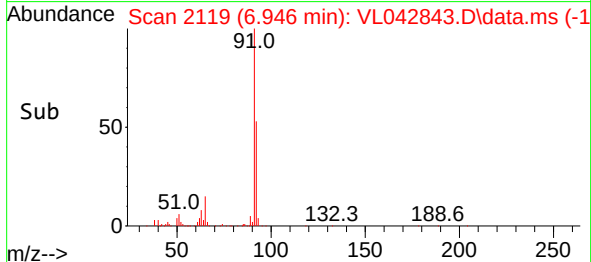
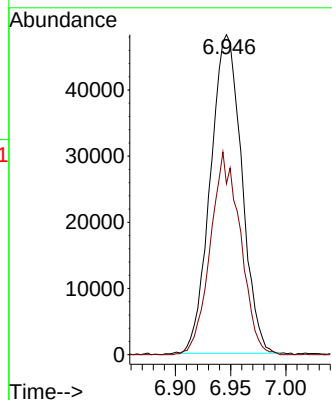
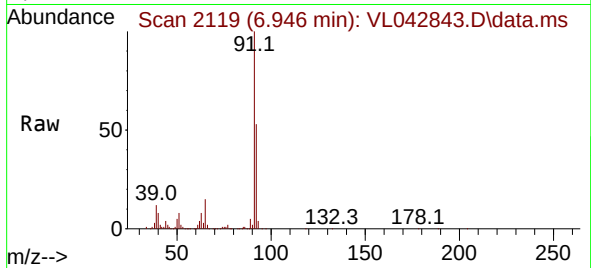
#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

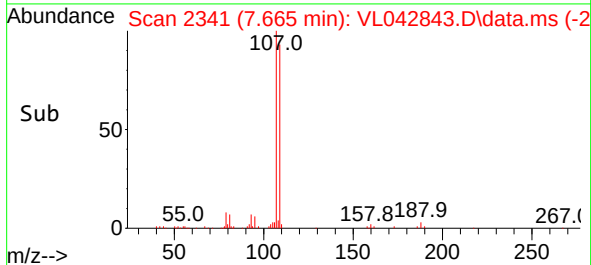
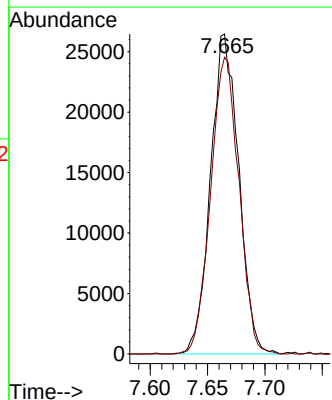
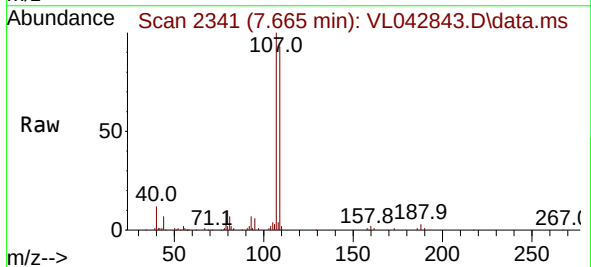
Manual Integrations
APPROVED

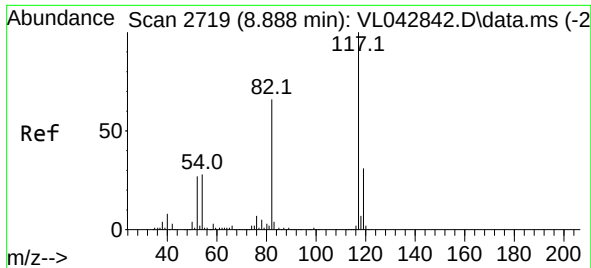
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

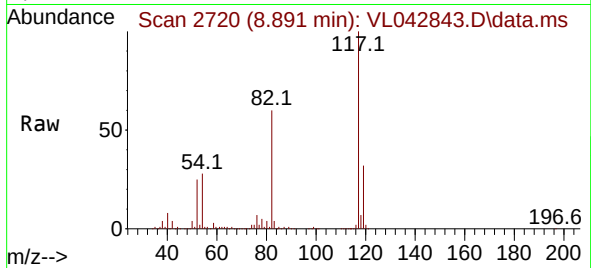
Tgt Ion:107 Resp: 45071
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7





#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

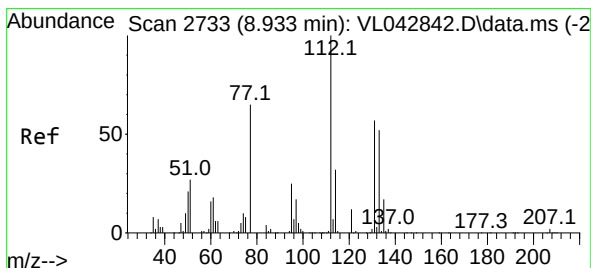
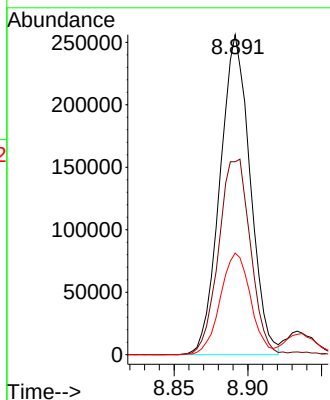
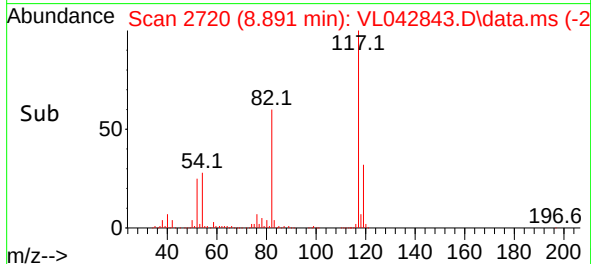
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



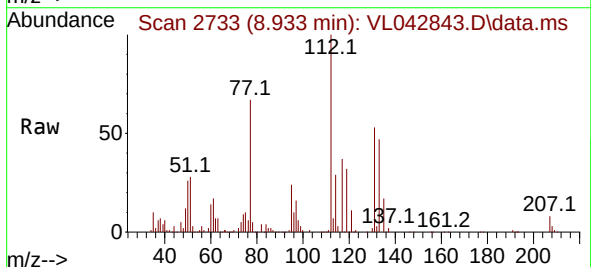
Tgt Ion:117 Resp: 363830
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 32.8 25.9 38.9

Manual Integrations
APPROVED

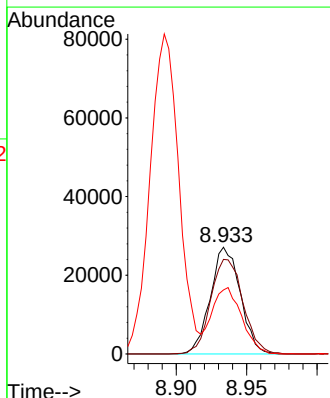
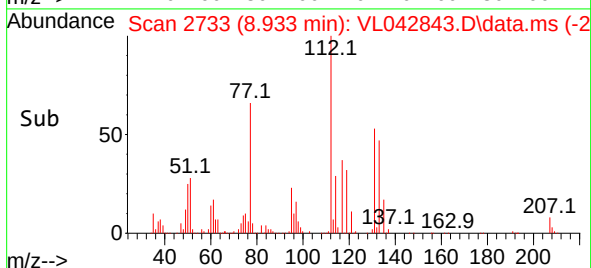
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

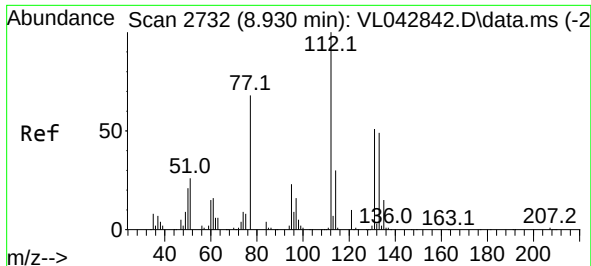


#56
1,1,1,2-Tetrachloroethane
Concen: 2.131 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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





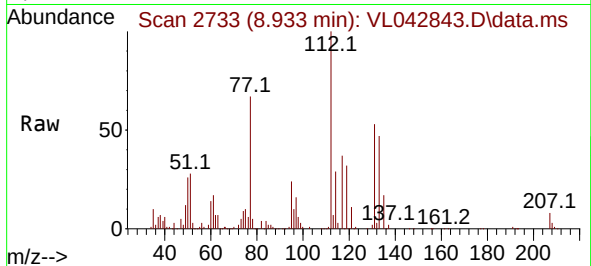
#57
Chlorobenzene
Concen: 2.090 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

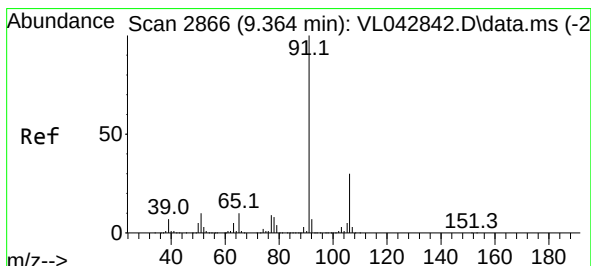
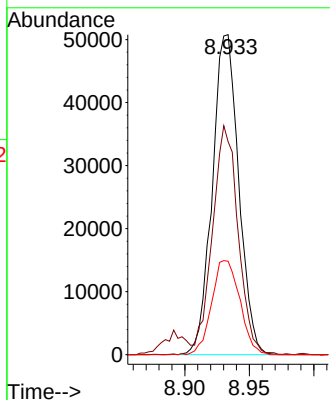
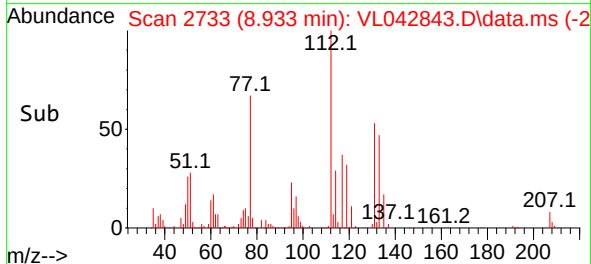


Tgt Ion: 112 Resp: 72290
Ion Ratio Lower Upper
112 100
77 66.4 55.5 83.3
114 29.2 27.2 33.2

Manual Integrations

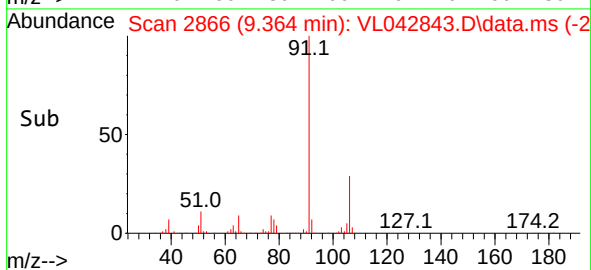
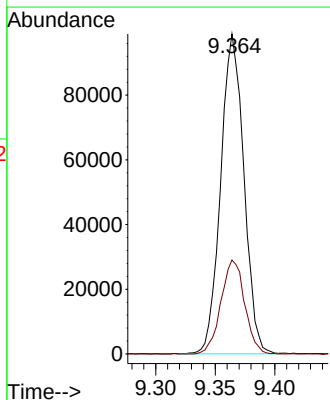
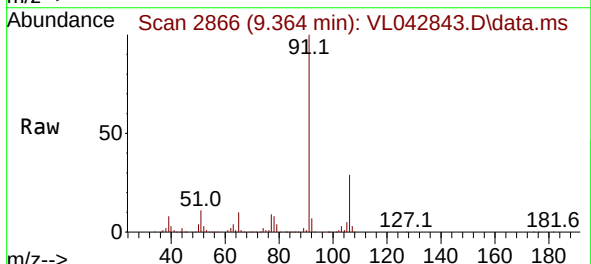
APPROVED

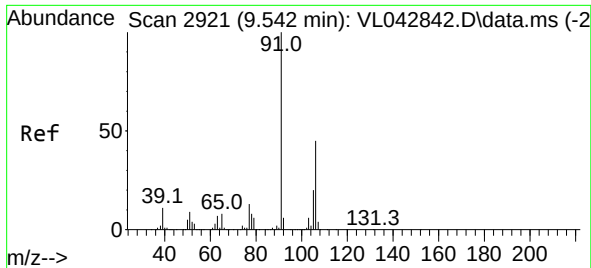
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

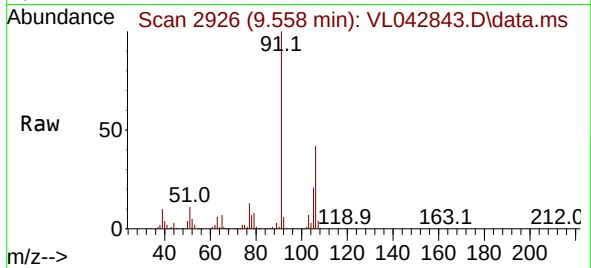
Tgt Ion: 91 Resp: 133719
Ion Ratio Lower Upper
91 100
106 29.4 23.9 35.9





#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

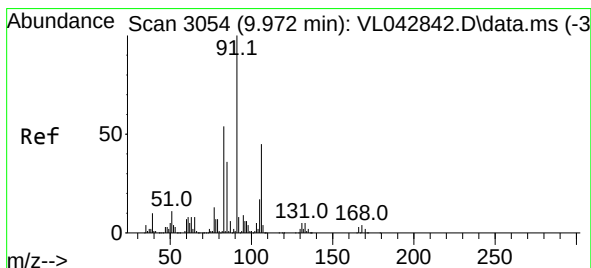
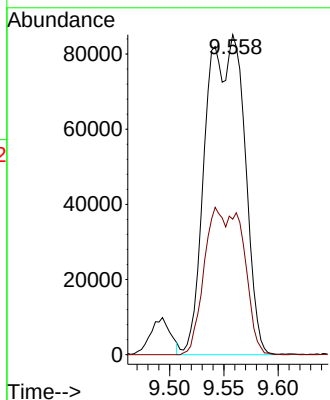
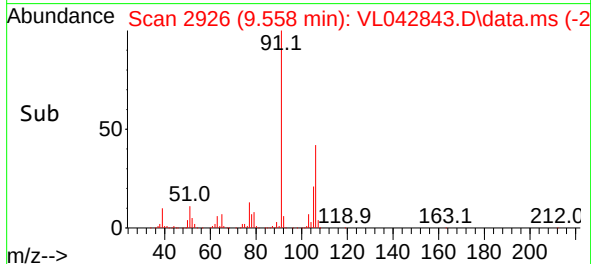
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



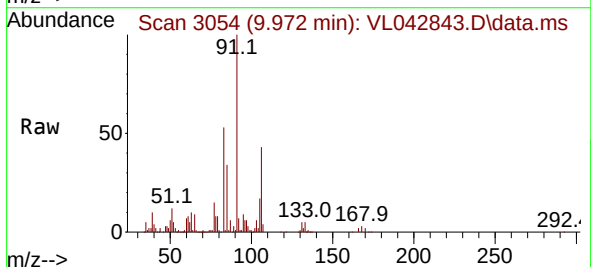
Tgt Ion: 91 Resp: 211704
Ion Ratio Lower Upper
91 100
106 46.1 0.0 0.0

Manual Integrations
APPROVED

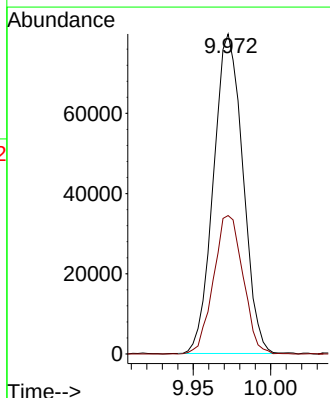
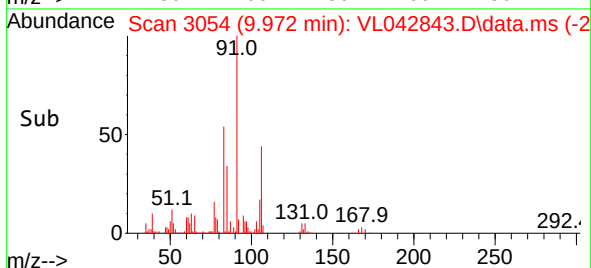
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

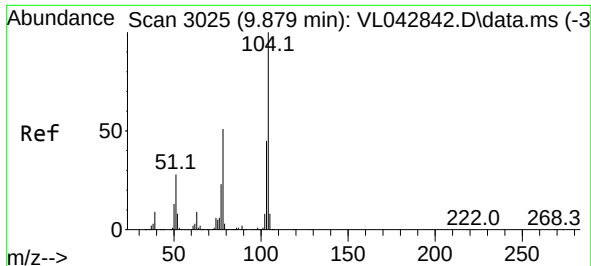


#60
o-Xylene
Concen: 2.077 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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





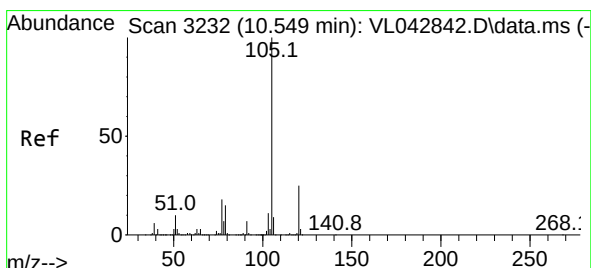
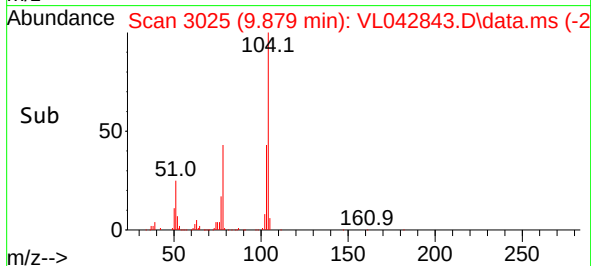
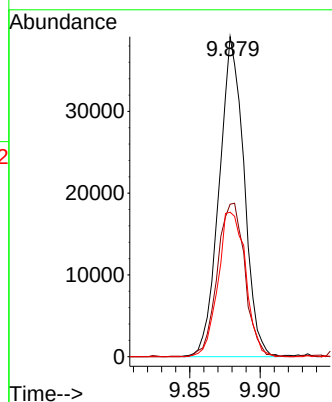
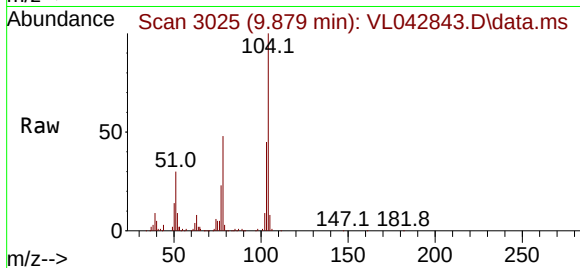
#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

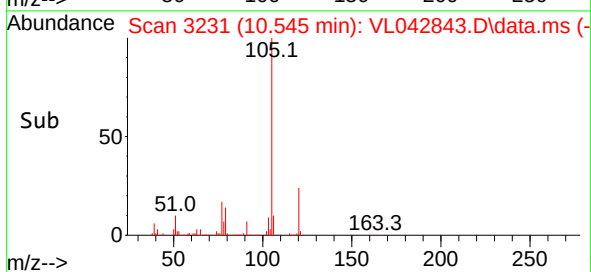
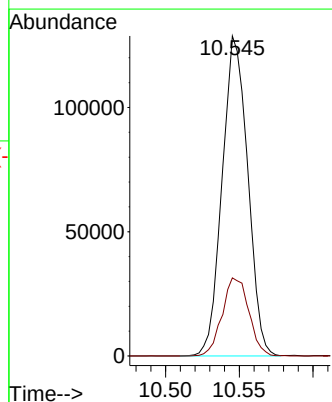
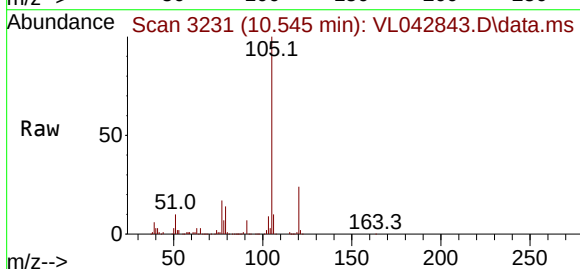
Manual Integrations
APPROVED

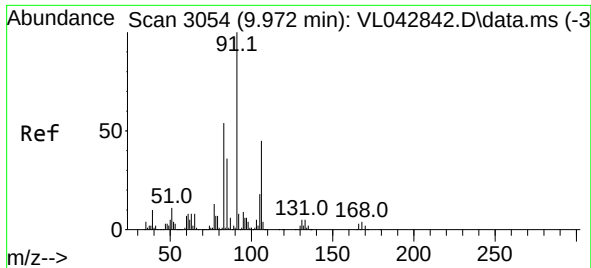
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

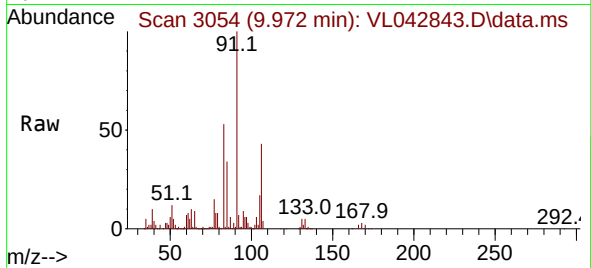
Tgt Ion:105 Resp: 155223
Ion Ratio Lower Upper
105 100
120 25.5 20.6 30.8





#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

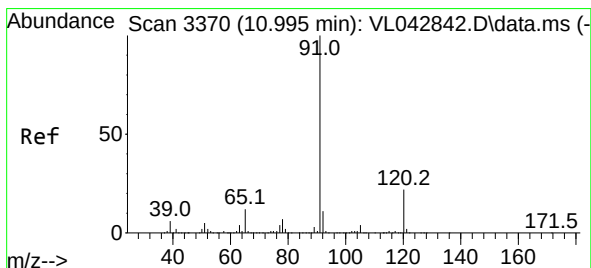
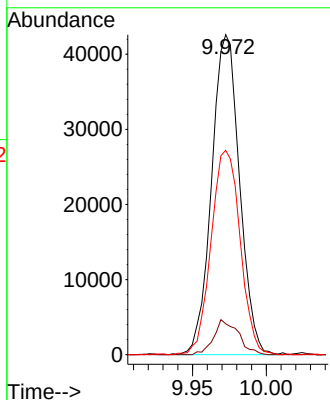
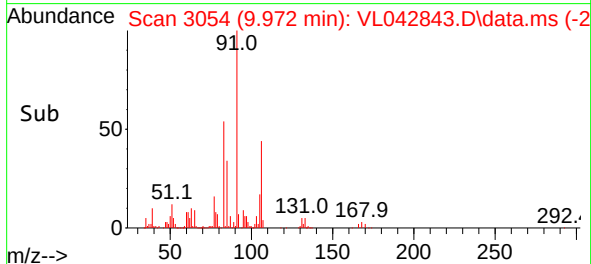
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



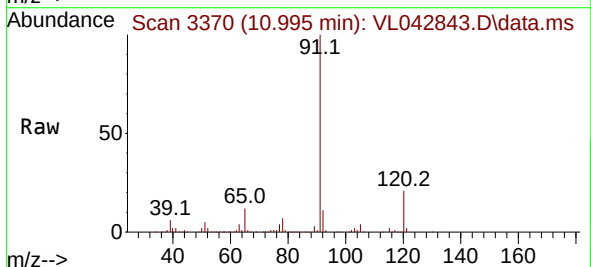
Tgt Ion: 83 Resp: 56139
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 66.5 32.3 96.8

Manual Integrations
APPROVED

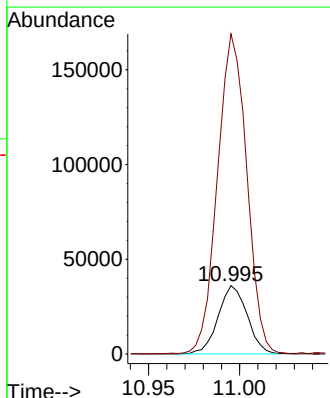
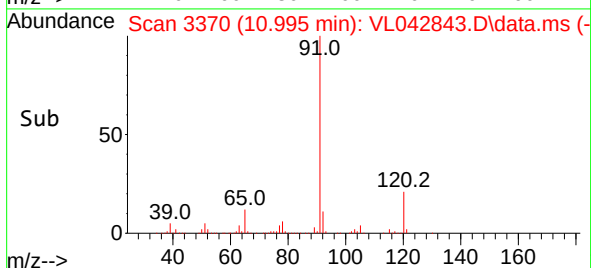
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

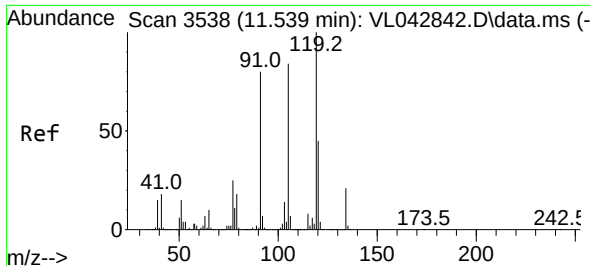


#64
n-propylbenzene
Concen: 2.115 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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





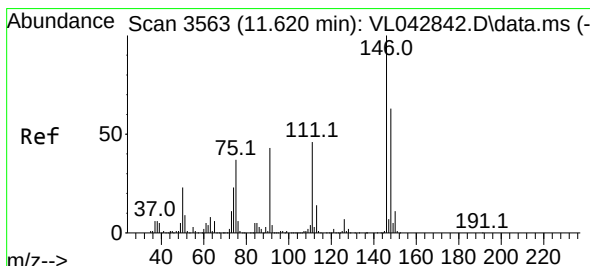
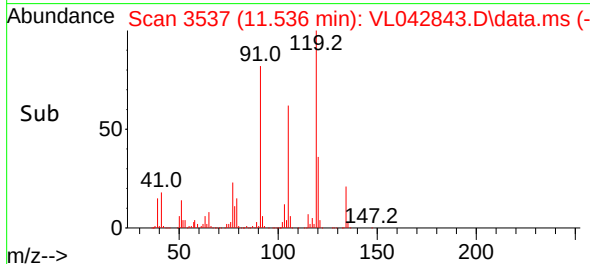
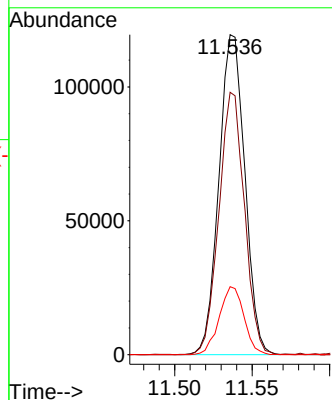
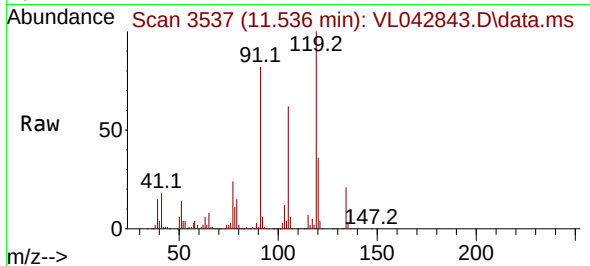
#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

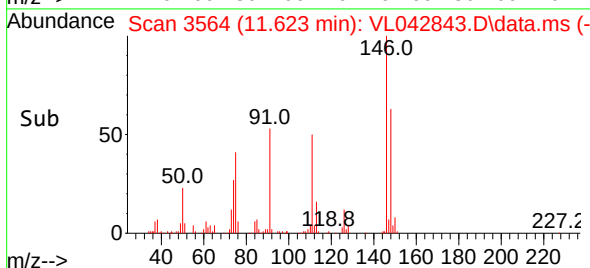
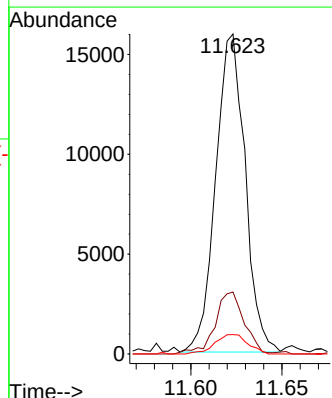
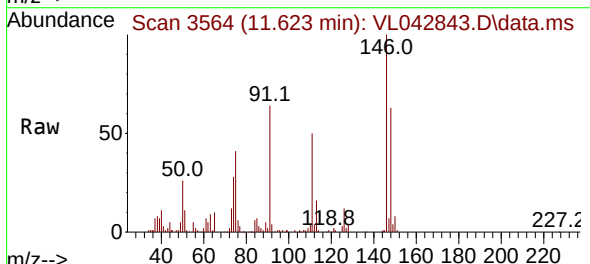
Manual Integrations
APPROVED

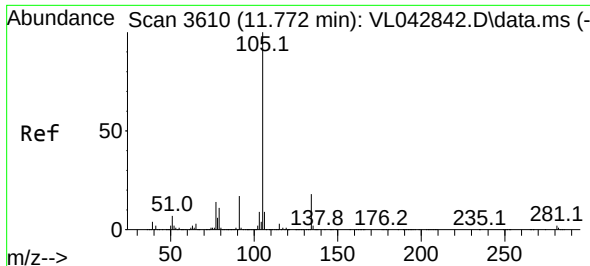
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

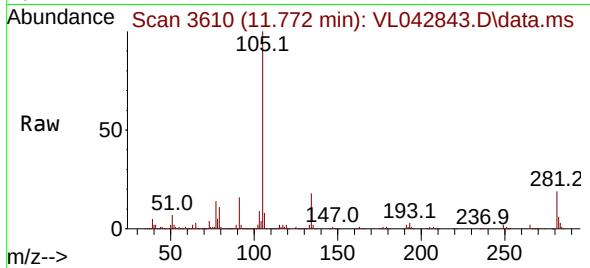
Tgt Ion: 91 Resp: 17893
Ion Ratio Lower Upper
91 100
126 19.5 14.2 21.4
128 6.9 5.0 7.6





#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

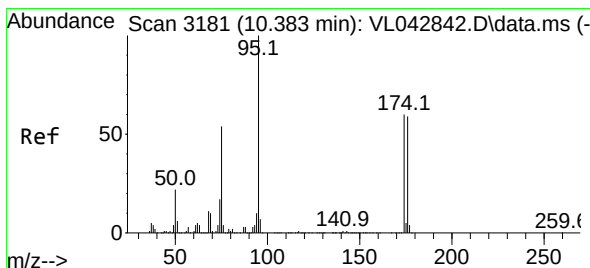
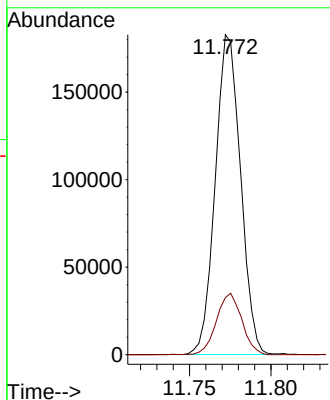
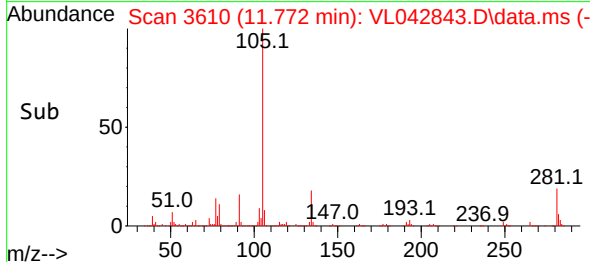
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002



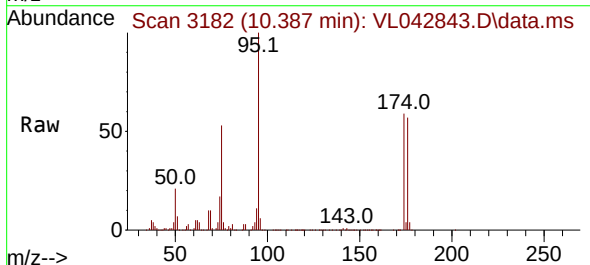
Tgt Ion:105 Resp: 196895
 Ion Ratio Lower Upper
 105 100
 134 19.3 14.9 22.3

Manual Integrations
 APPROVED

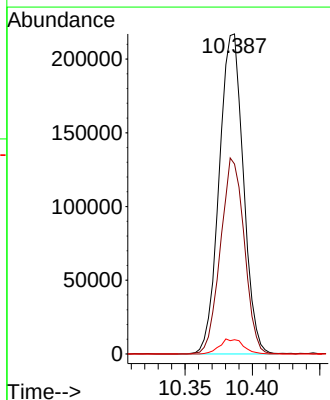
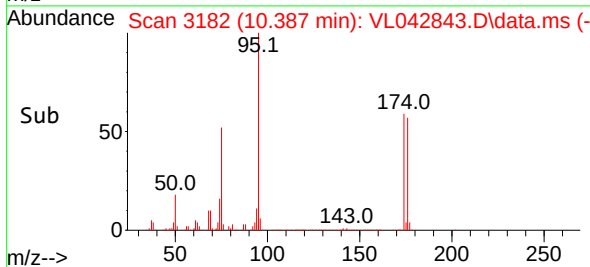
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

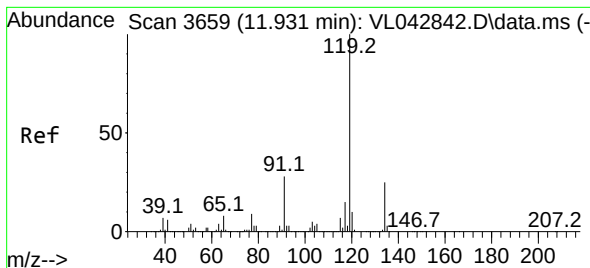


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.923 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



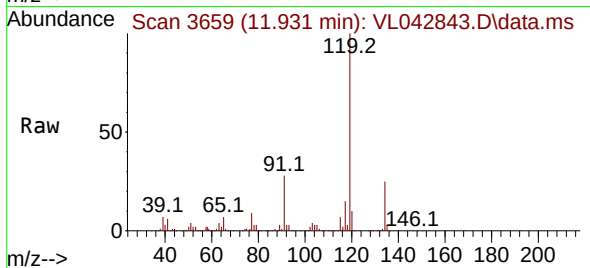
Tgt Ion: 95 Resp: 270774
 Ion Ratio Lower Upper
 95 100
 174 60.2 48.4 72.6
 175 4.6 3.8 5.8





#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

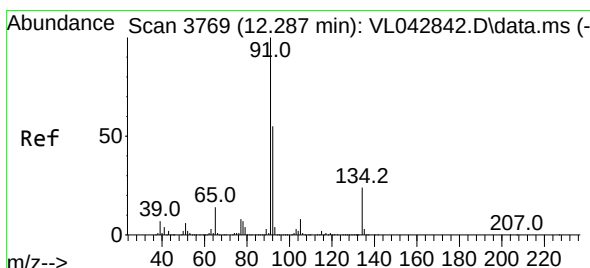
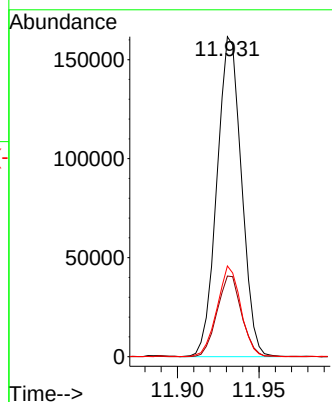
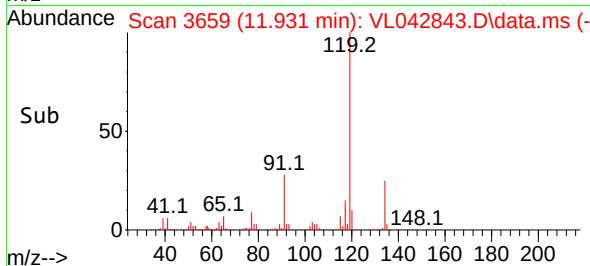
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



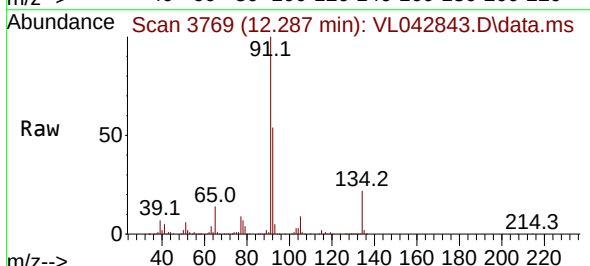
Tgt Ion: 119 Resp: 169429
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 30.8
 91 27.4 22.6 34.0

Manual Integrations
 APPROVED

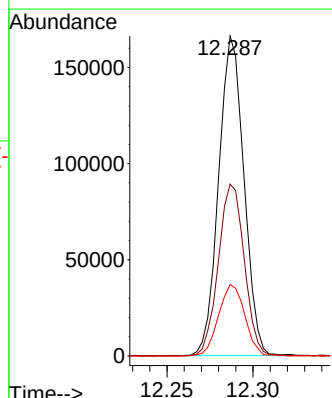
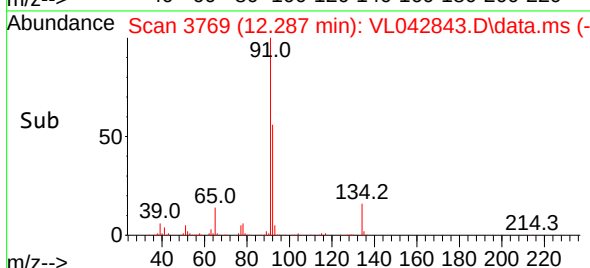
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

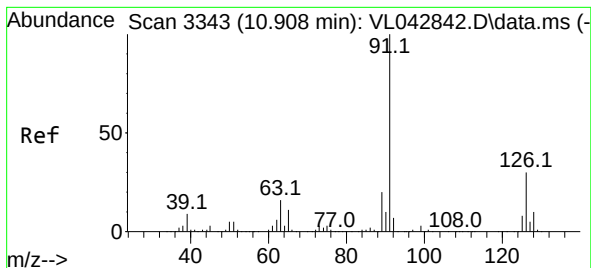


#70
 n-Butylbenzene
 Concen: 2.178 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



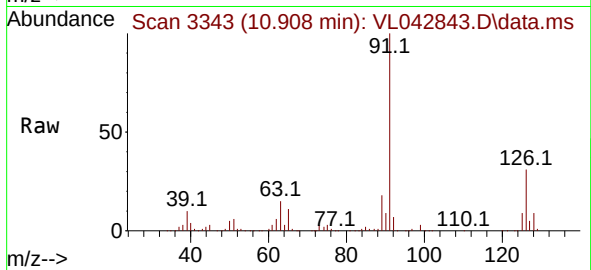
Tgt Ion: 91 Resp: 169768
 Ion Ratio Lower Upper
 91 100
 92 55.4 44.6 66.8
 134 23.3 19.0 28.4





#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

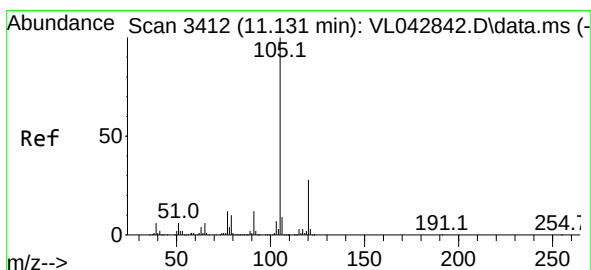
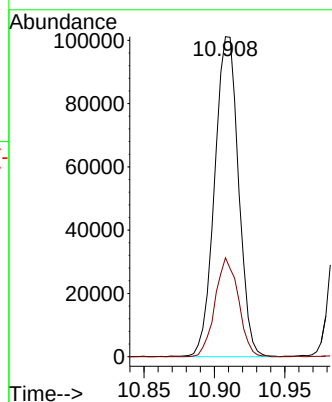
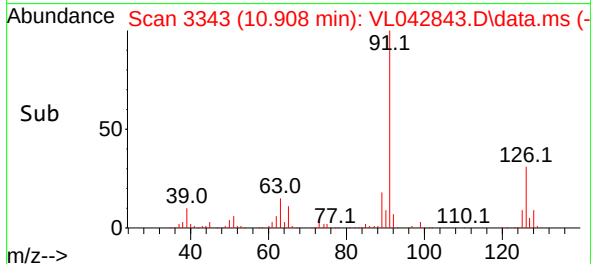
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



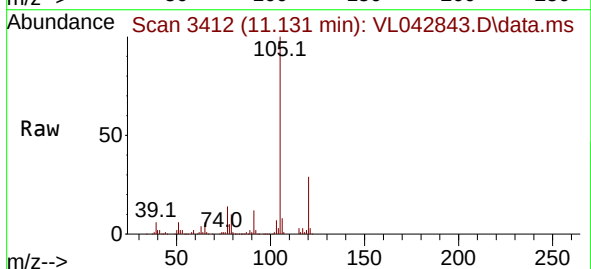
Tgt Ion: 91 Resp: 11938
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8

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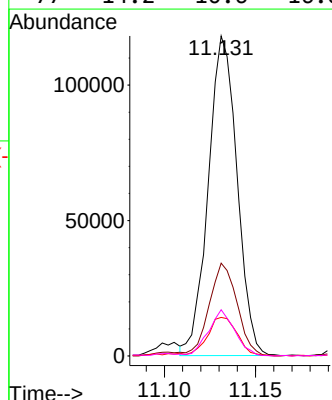
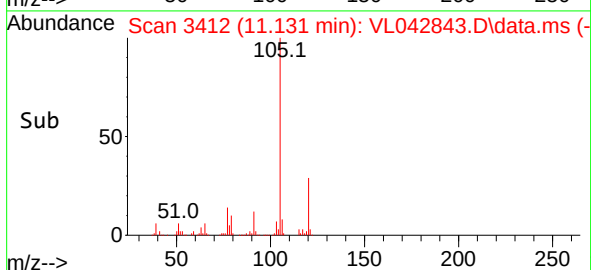
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

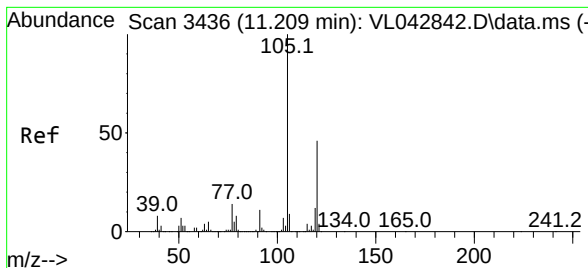


#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



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

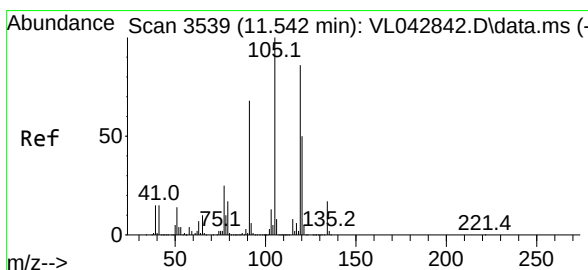
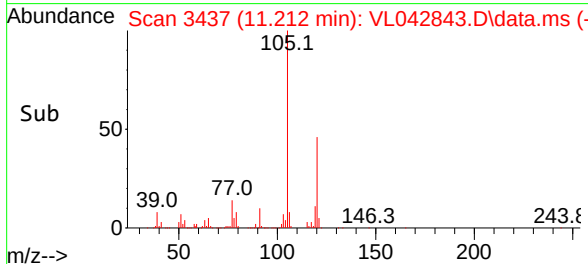
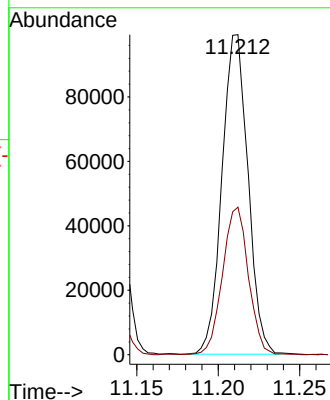
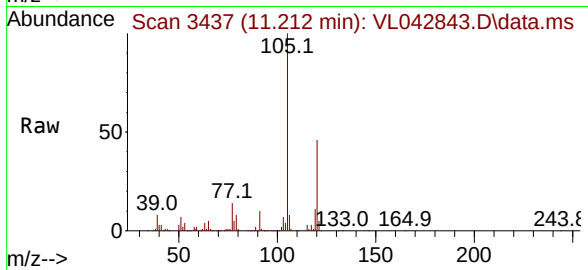
120 46.1 36.6 54.8

Manual Integrations

APPROVED

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

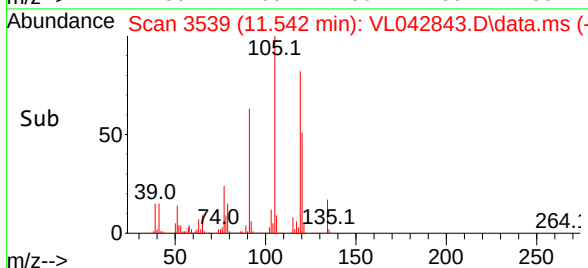
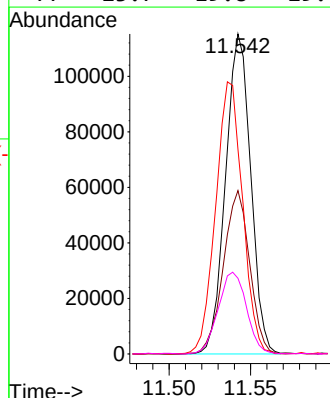
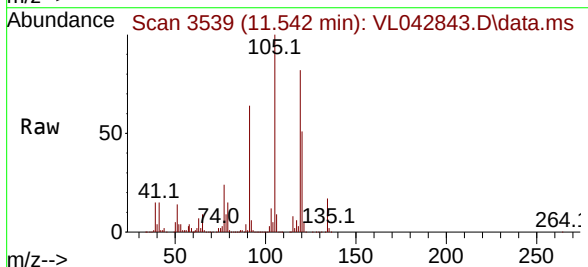
Ion Ratio Lower Upper

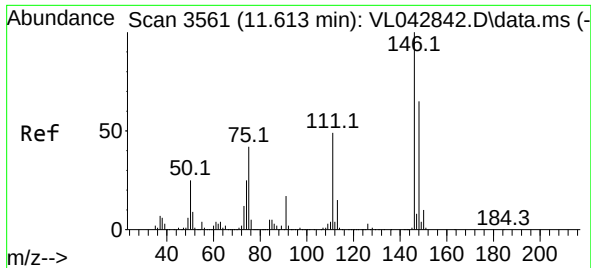
105 100

120 51.0 39.8 59.6

91 63.9 54.2 81.4

77 23.7 19.8 29.6





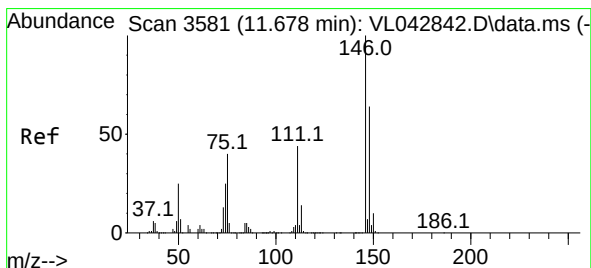
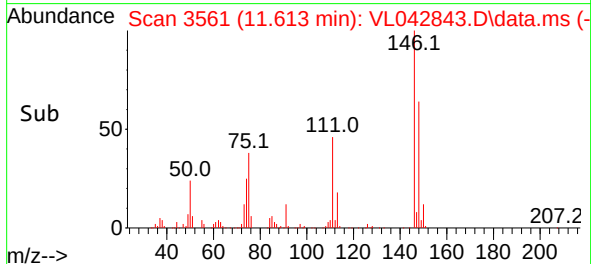
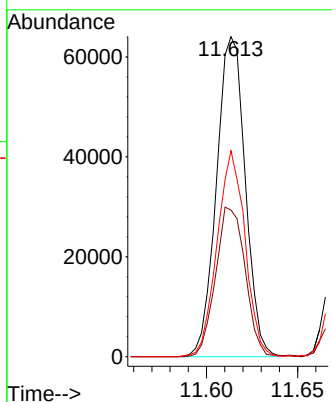
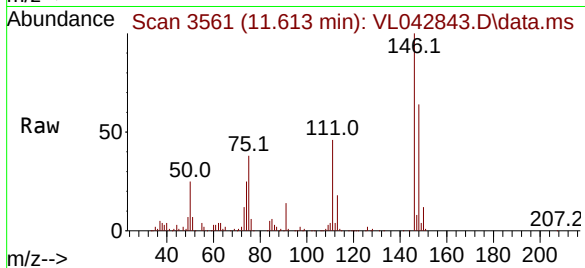
#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

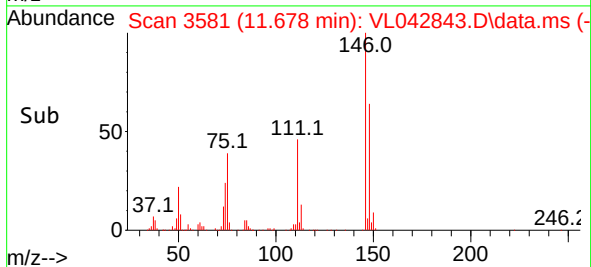
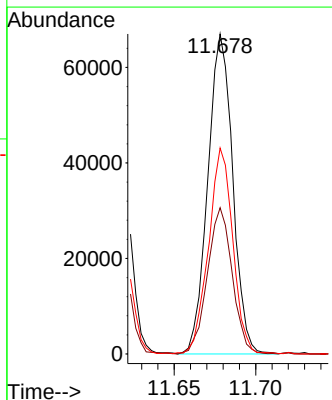
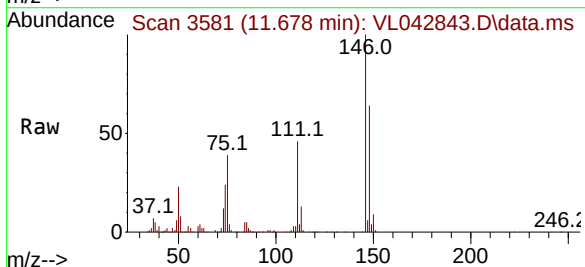
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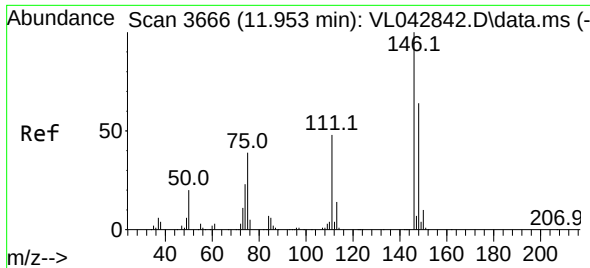
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





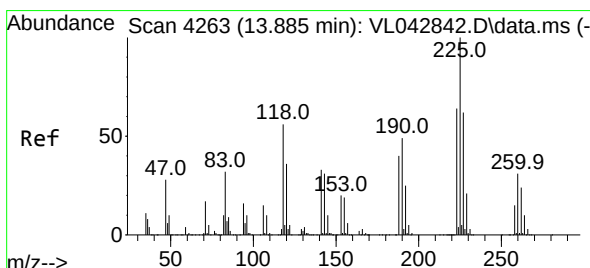
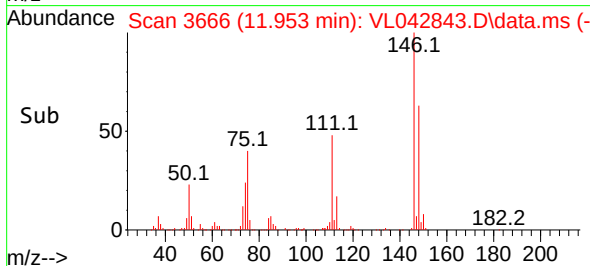
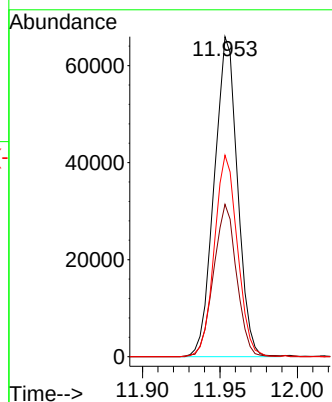
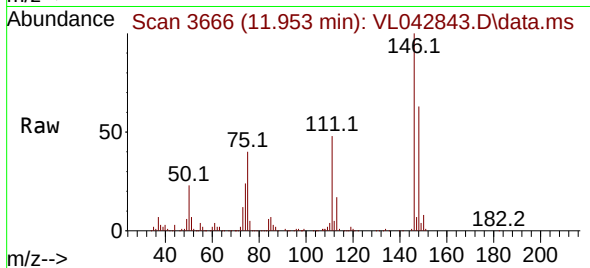
#77
1,2-Dichlorobenzene
Concen: 2.162 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

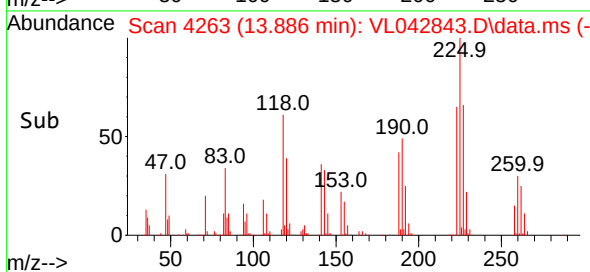
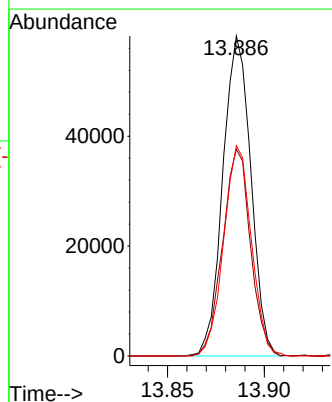
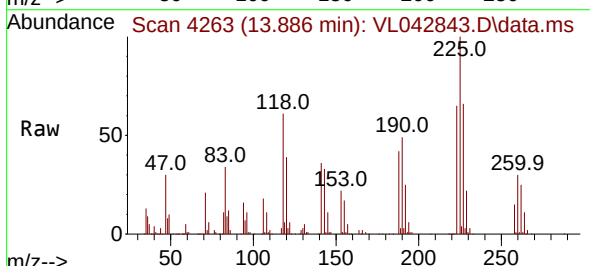
Manual Integrations
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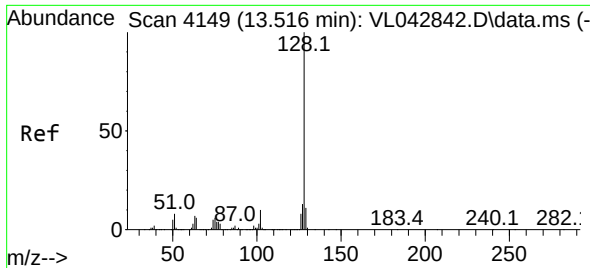
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

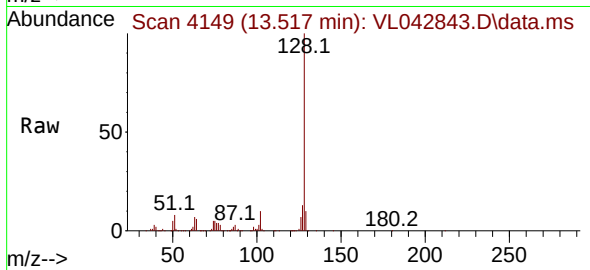
Tgt Ion:225 Resp: 58509
Ion Ratio Lower Upper
225 100
223 64.5 51.4 77.2
227 65.2 51.9 77.9





#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

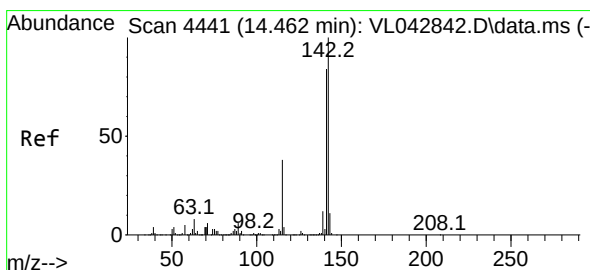
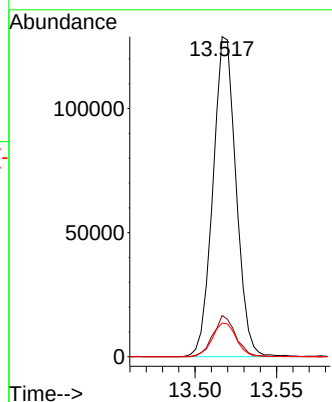
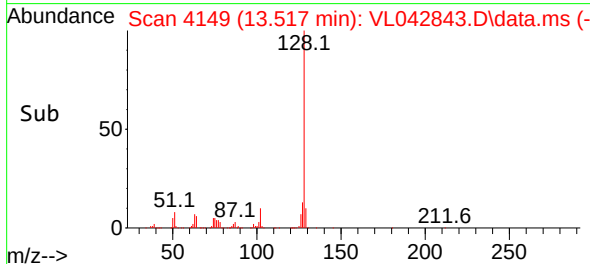
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

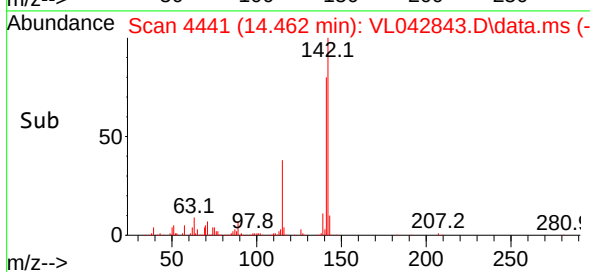
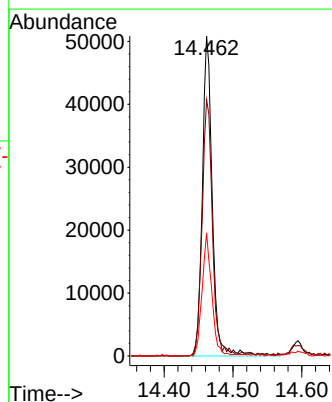
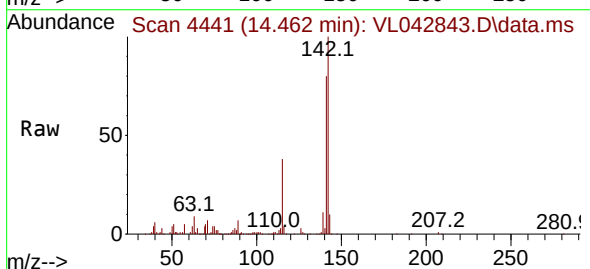
Manual Integrations
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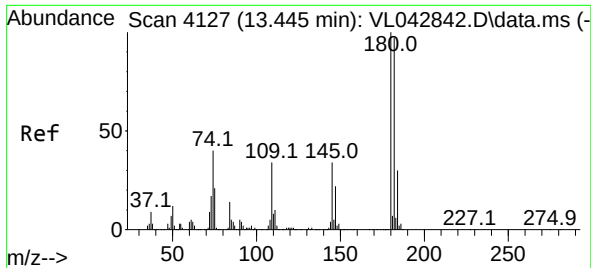
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

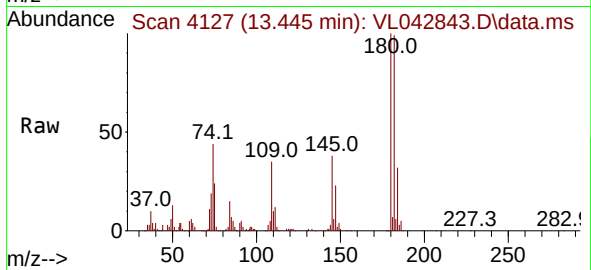
Tgt Ion:142 Resp: 51541
Ion Ratio Lower Upper
142 100
141 83.9 67.0 100.6
115 37.8 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 2.384 ppbv
 RT: 13.445 min Scan# 4127
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

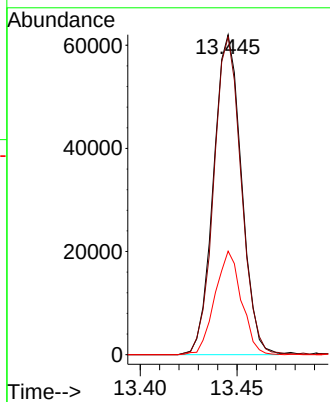
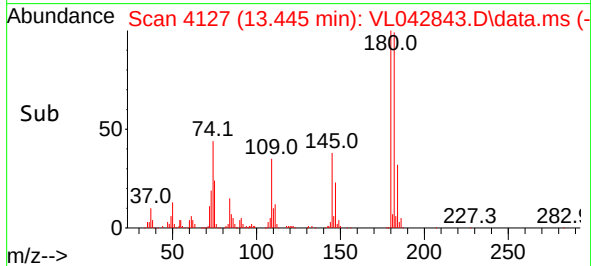
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



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
 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 : 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_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

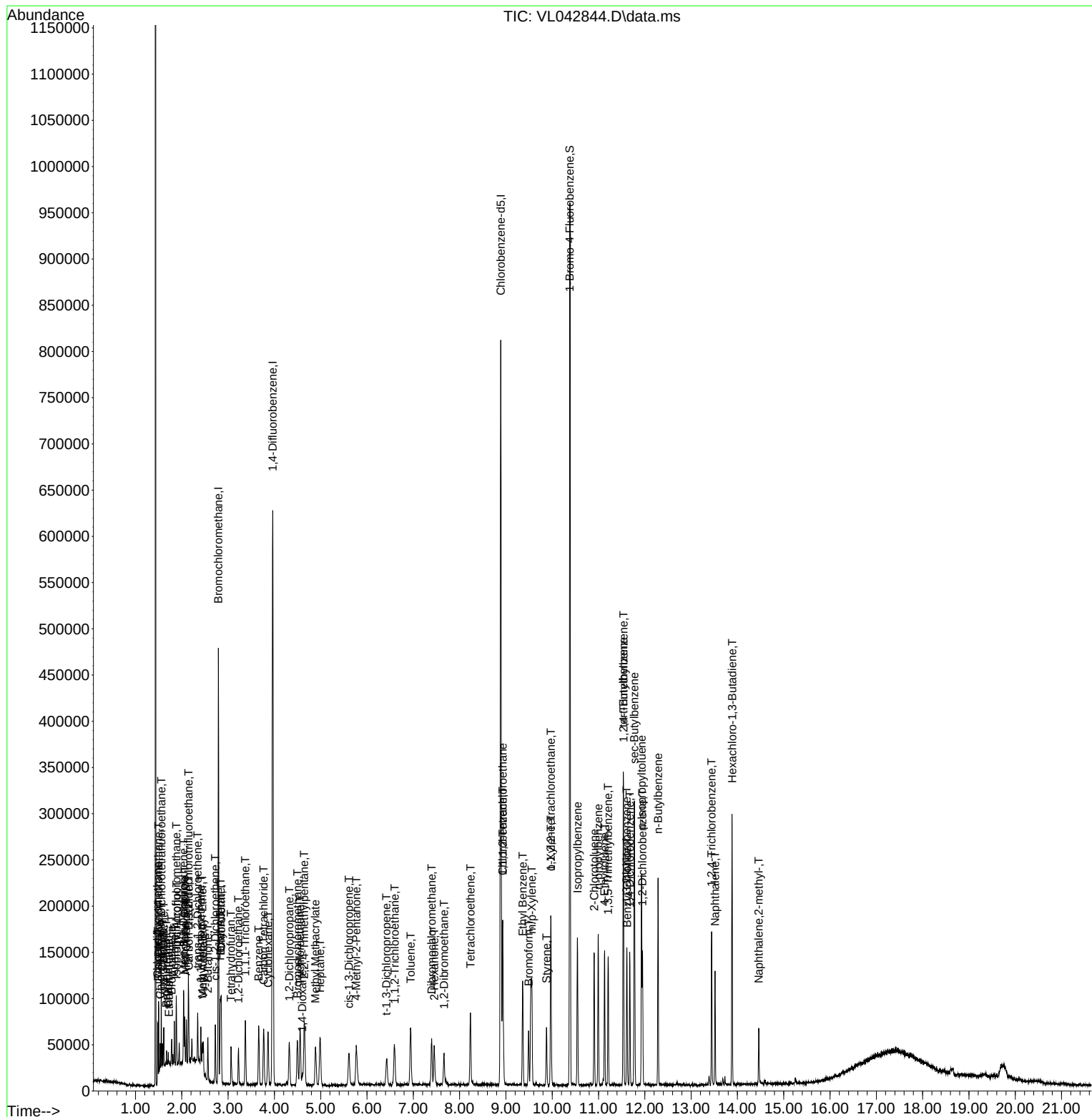
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

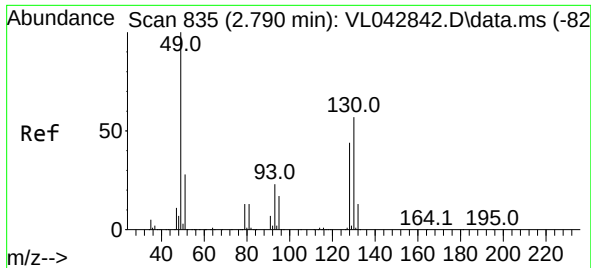
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

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
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration





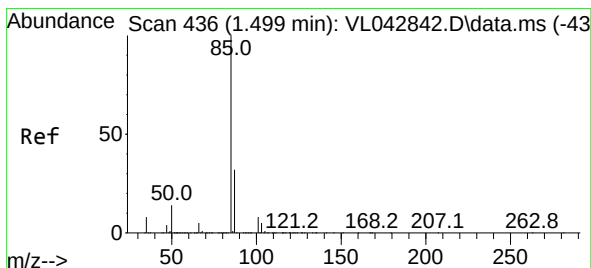
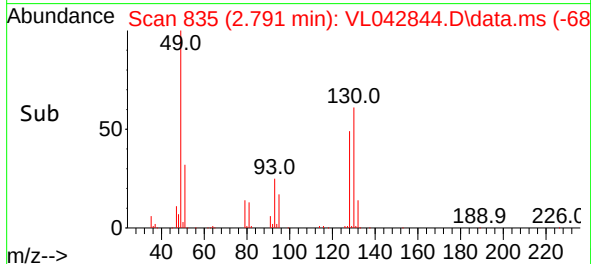
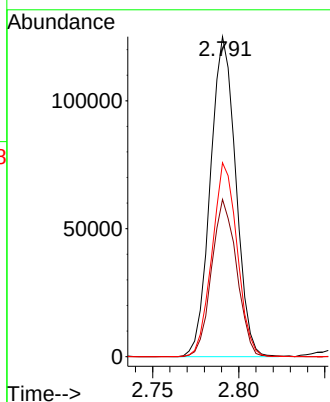
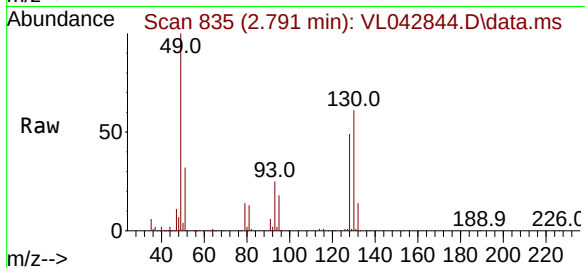
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 12854
Ion Ratio Lower Upper
49 100
128 48.4 23.7 71.1
130 59.9 30.6 91.6

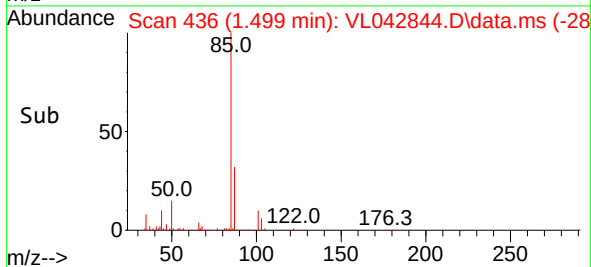
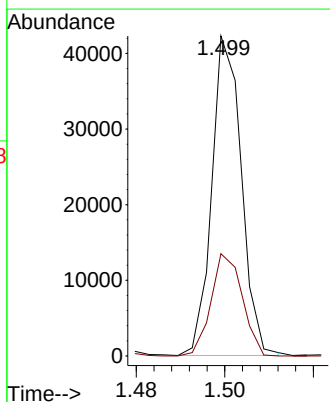
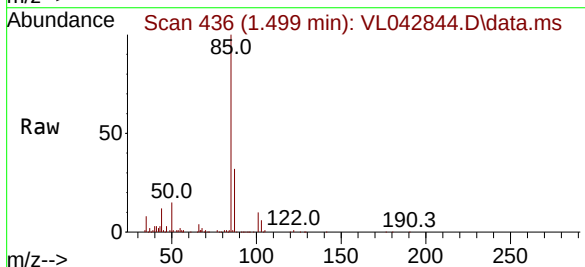
Manual Integrations
APPROVED

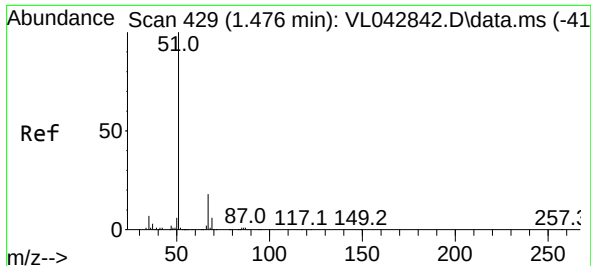
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

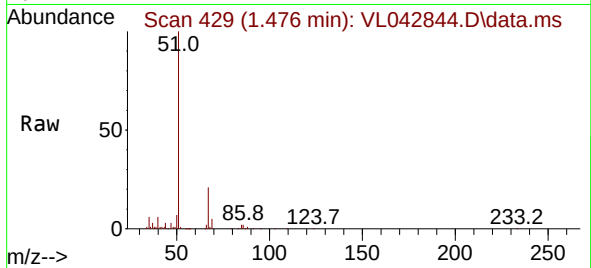
Tgt Ion: 85 Resp: 19603
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9





#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

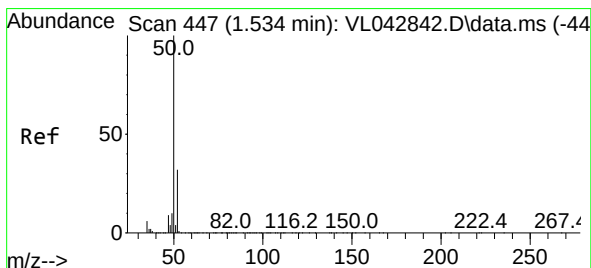
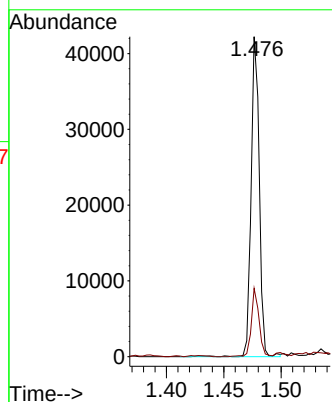
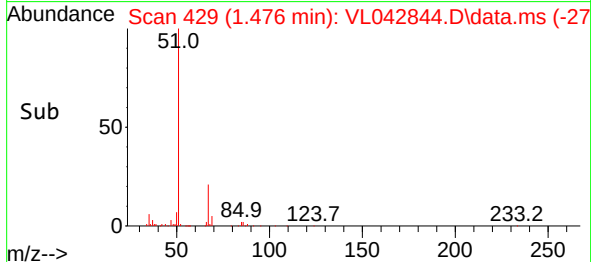
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



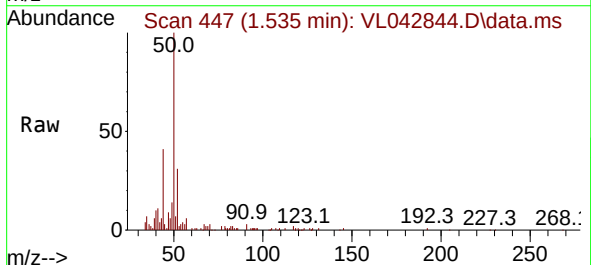
Tgt Ion: 51 Resp: 2083
Ion Ratio Lower Upper
51 100
67 21.9 14.9 22.3

Manual Integrations
APPROVED

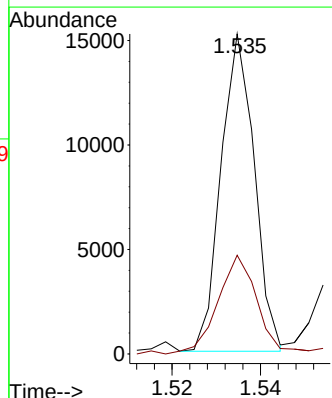
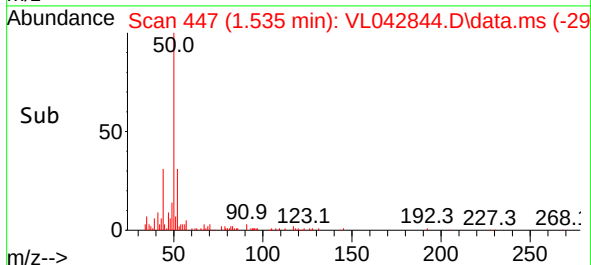
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

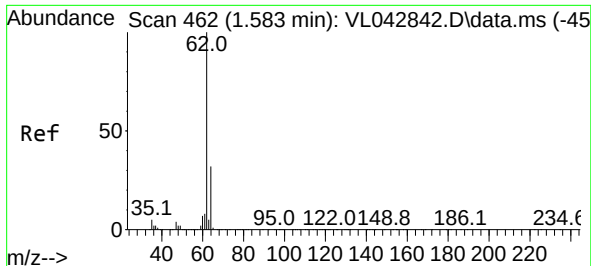


#4
Chloromethane
Concen: 1.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



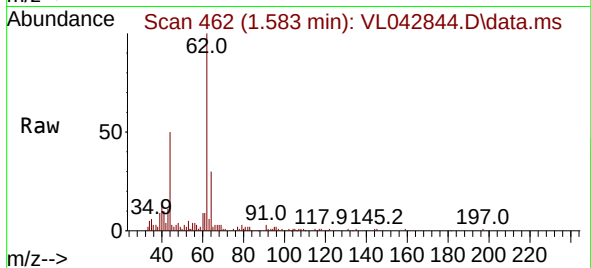
Tgt Ion: 50 Resp: 7948
Ion Ratio Lower Upper
50 100
52 30.2 25.9 38.9





#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

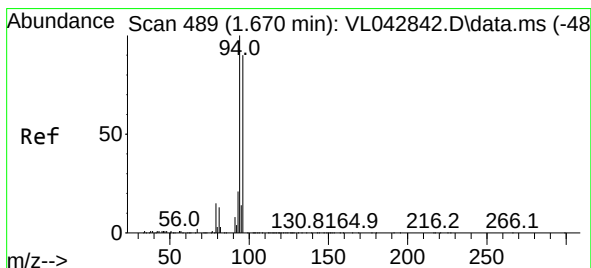
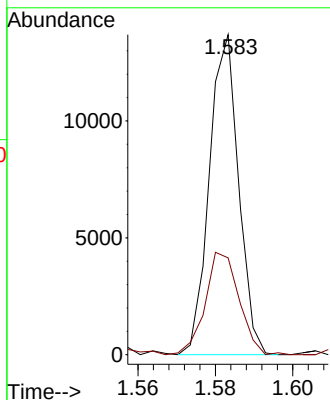
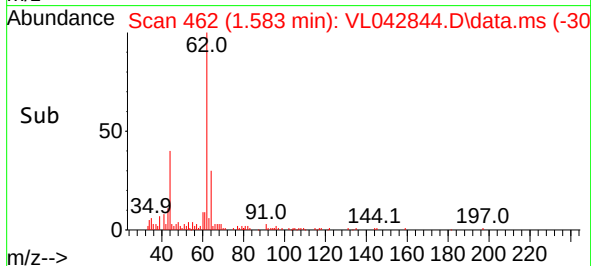
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



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

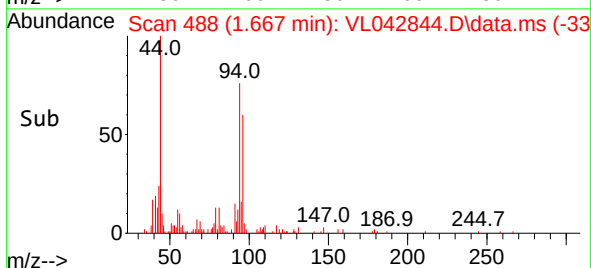
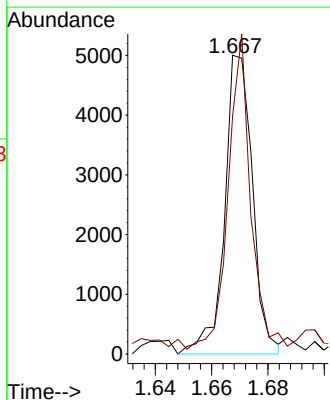
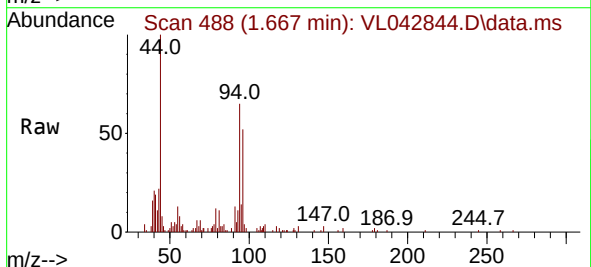
Manual Integrations
 APPROVED

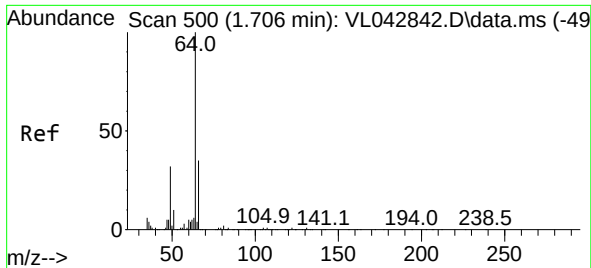
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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





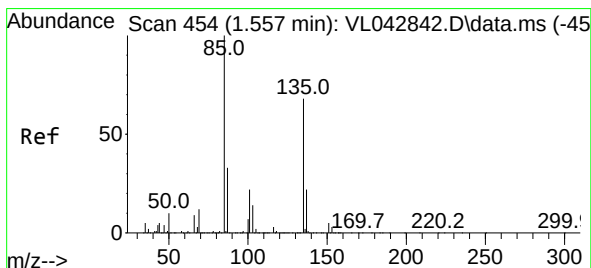
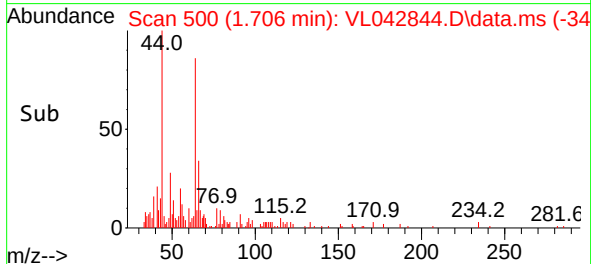
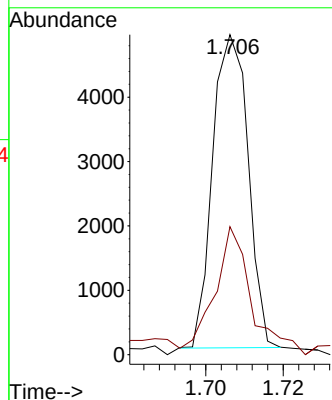
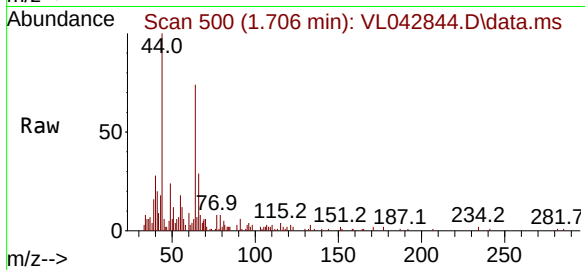
#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

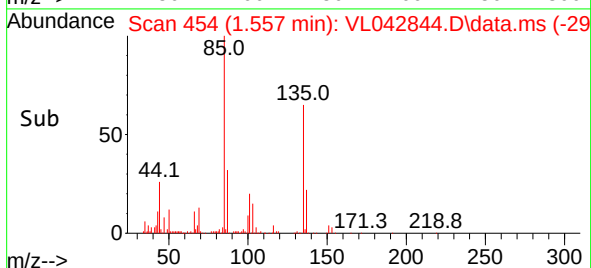
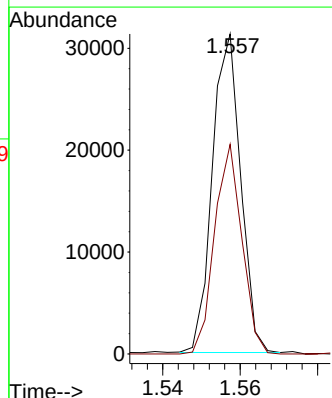
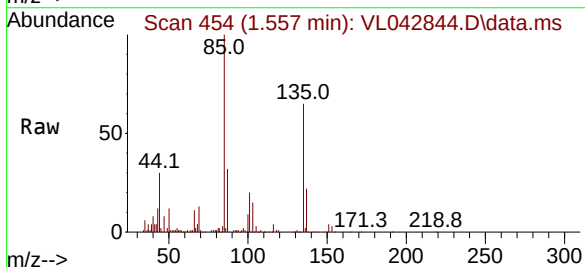
Manual Integrations
APPROVED

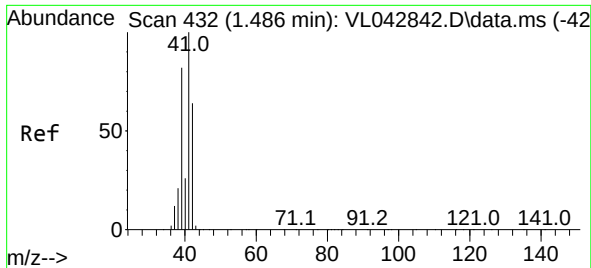
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





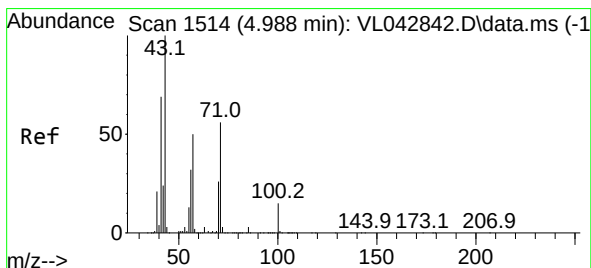
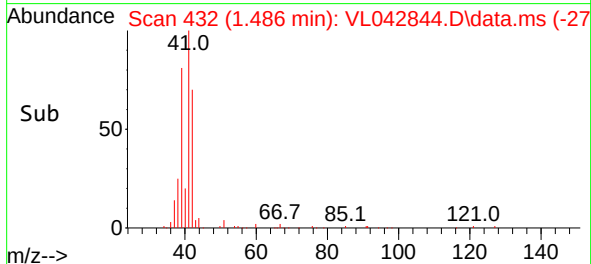
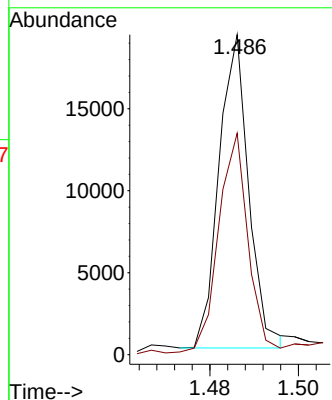
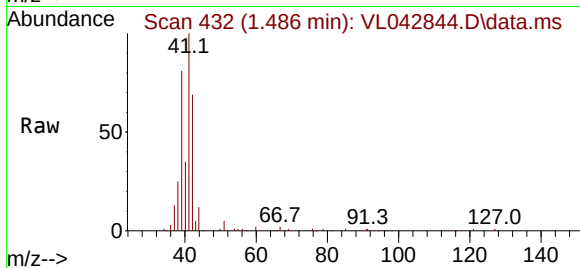
#9
 Propene
 Concen: 0.989 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

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

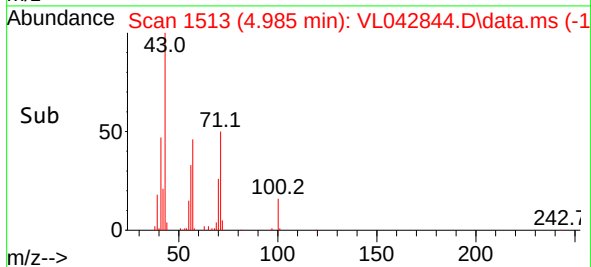
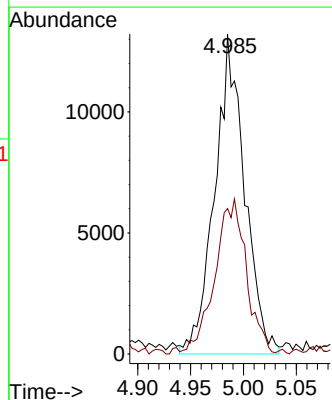
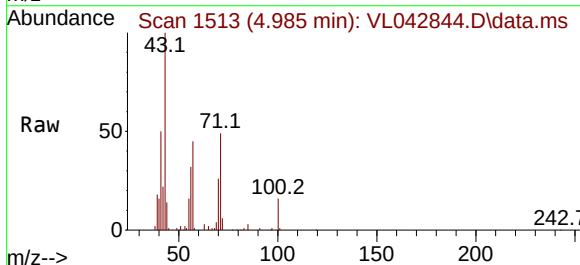
Manual Integrations
 APPROVED

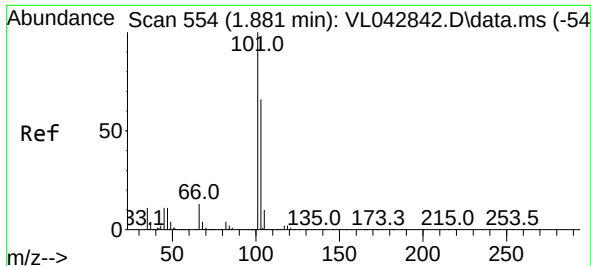
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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





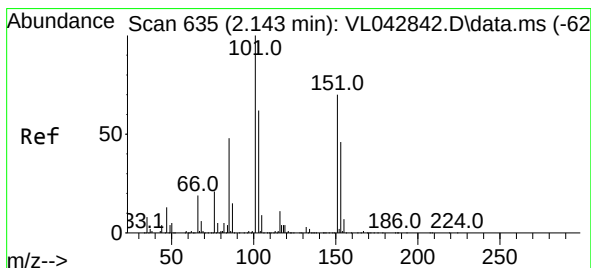
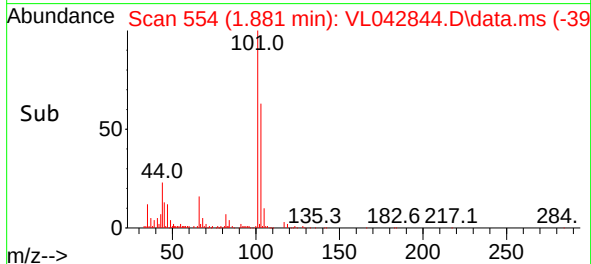
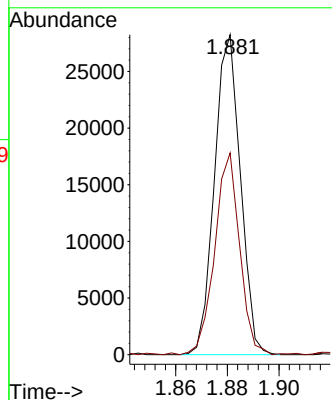
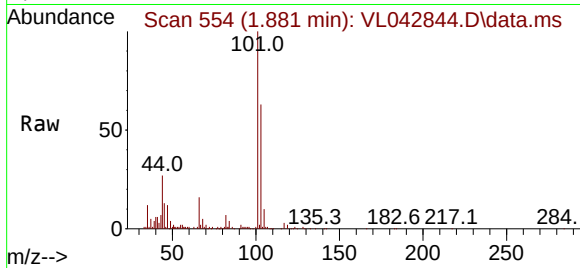
#11
 Trichlorofluoromethane
 Concen: 1.060 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

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

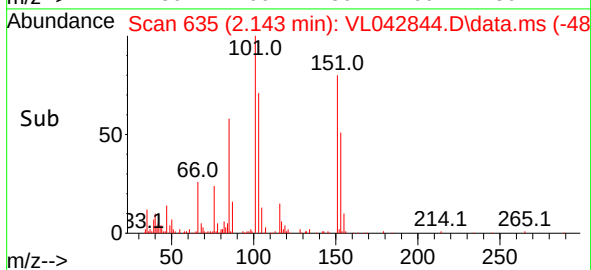
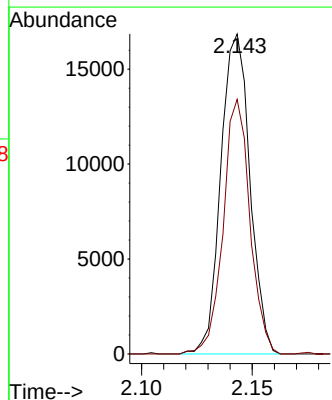
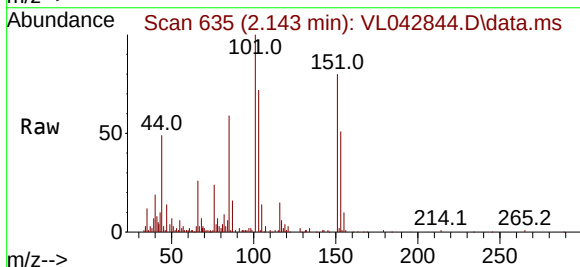
Manual Integrations
 APPROVED

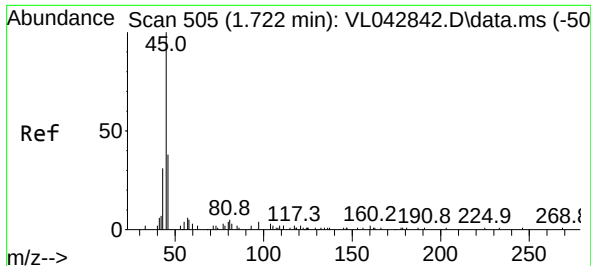
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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

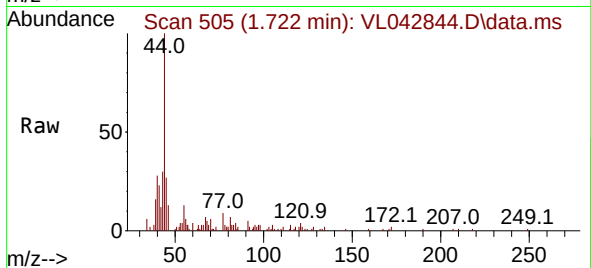
Tgt Ion:101 Resp: 15446
 Ion Ratio Lower Upper
 101 100
 151 73.2 56.4 84.6





#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

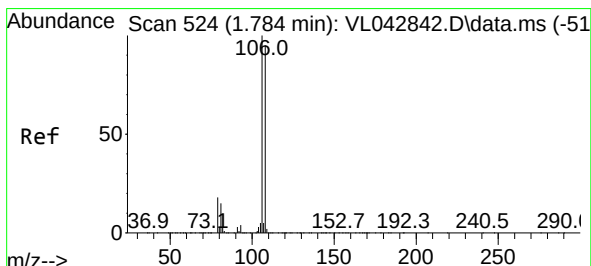
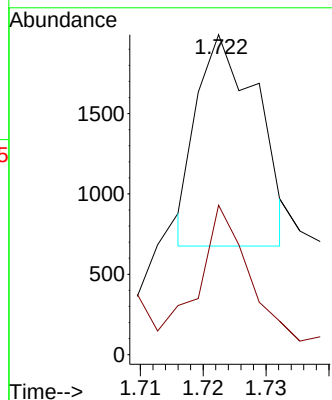
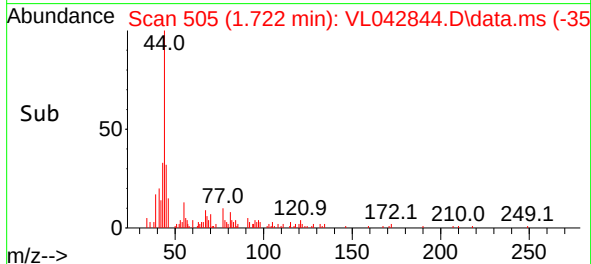
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



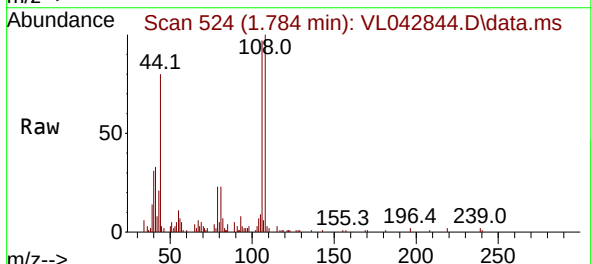
Tgt Ion: 45 Resp: 88
Ion Ratio Lower Upper
45 100
46 92.1 17.5 69.9

Manual Integrations
APPROVED

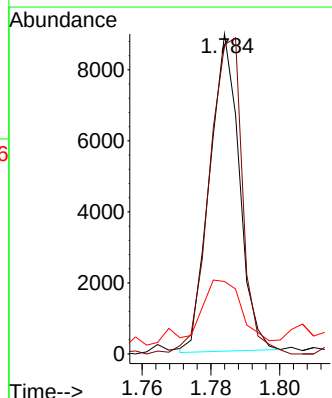
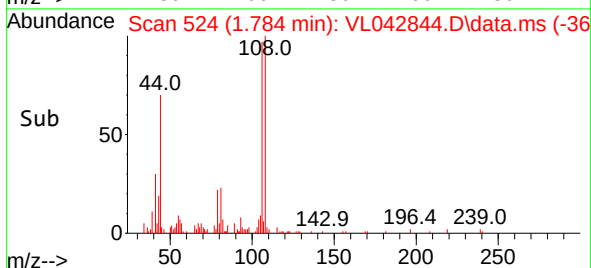
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

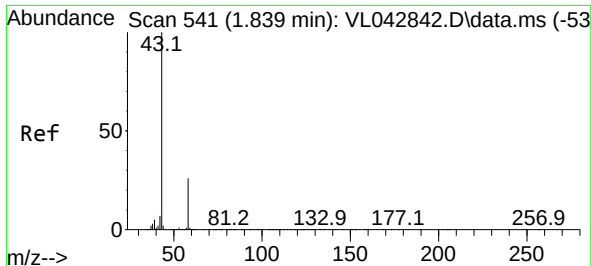


#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



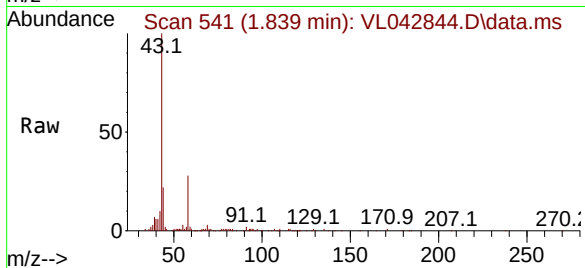
Tgt Ion:108 Resp: 5343
Ion Ratio Lower Upper
108 100
106 117.1 85.1 127.7
79 58.9 16.3 24.5





#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

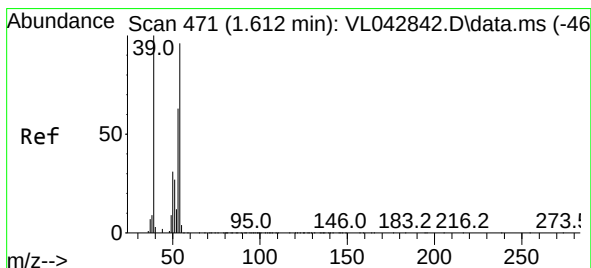
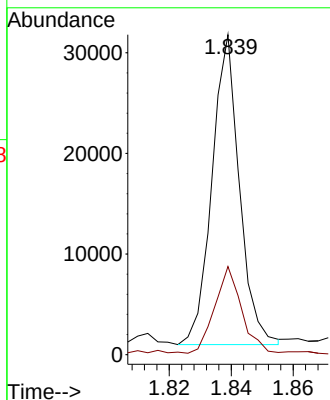
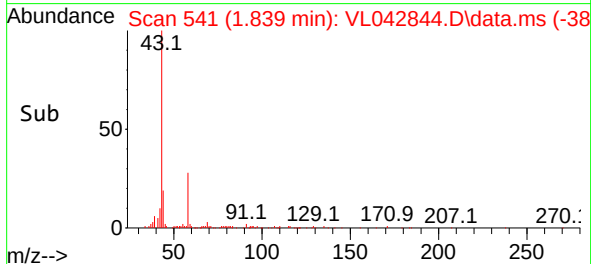
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



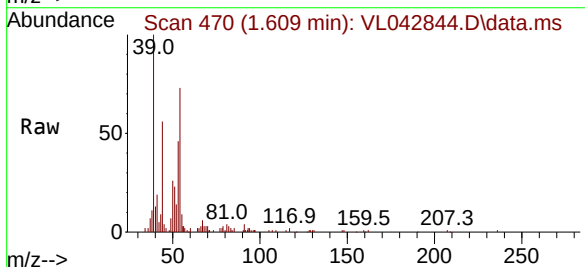
Tgt Ion: 43 Resp: 1896
Ion Ratio Lower Upper
43 100
58 29.1 22.4 33.6

Manual Integrations
APPROVED

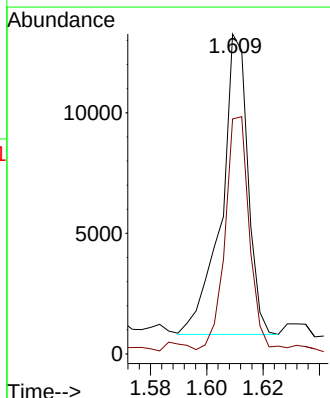
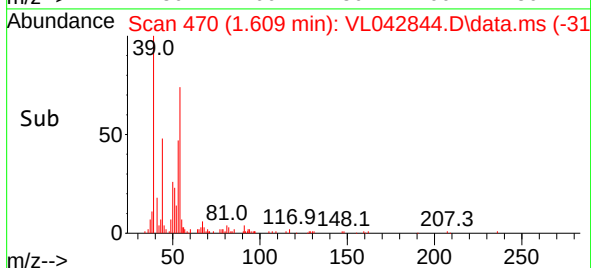
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

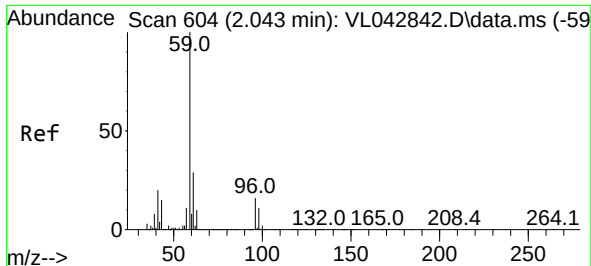


#16
1,3-Butadiene
Concen: 1.055 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



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

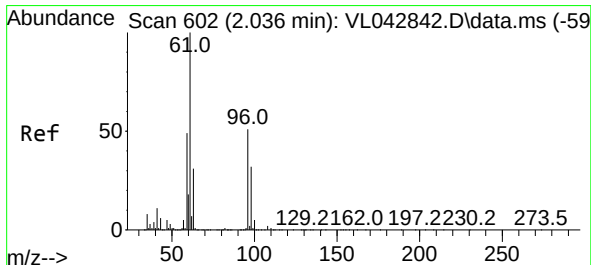
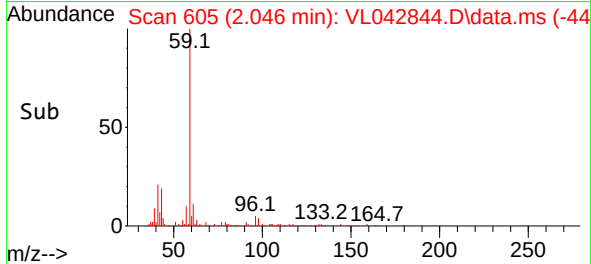
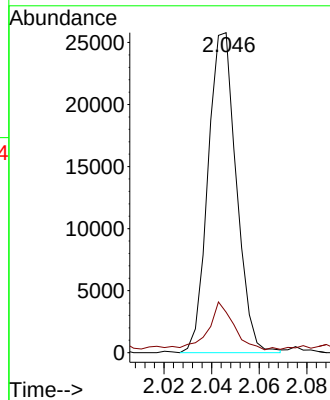
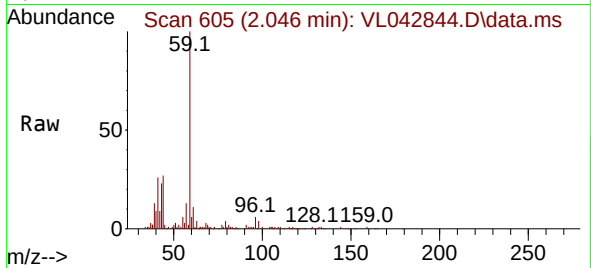
57 13.7 9.0 13.4

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

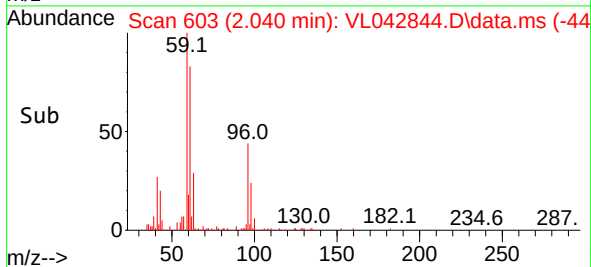
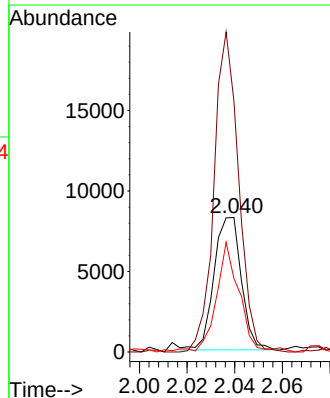
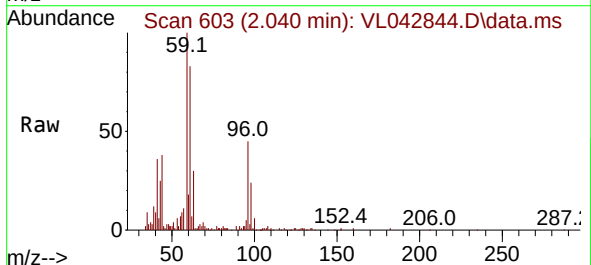
Tgt Ion: 96 Resp: 6549

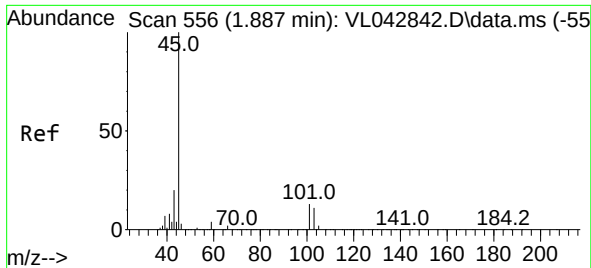
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0





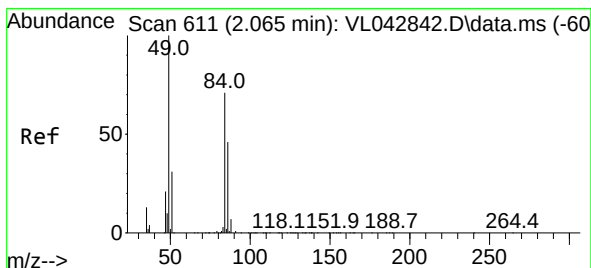
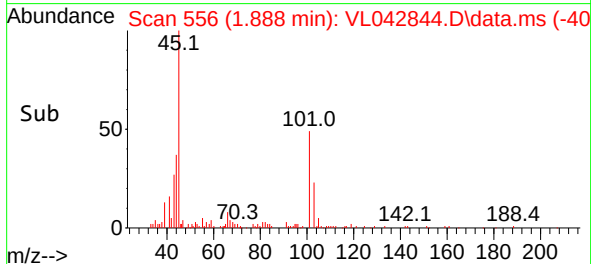
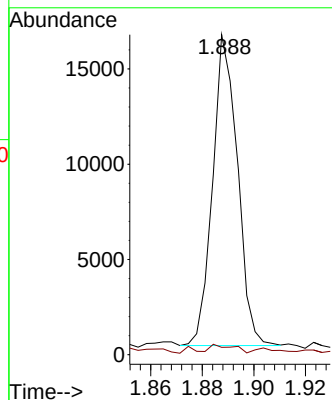
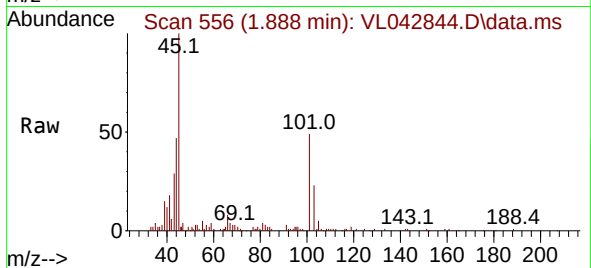
#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

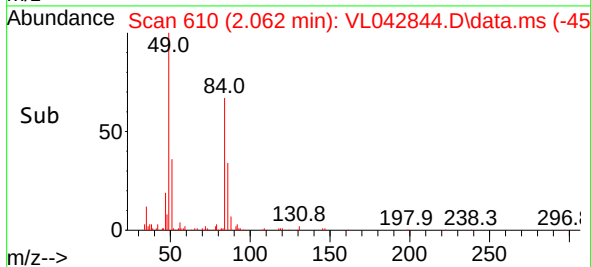
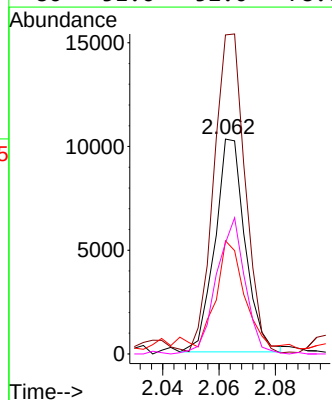
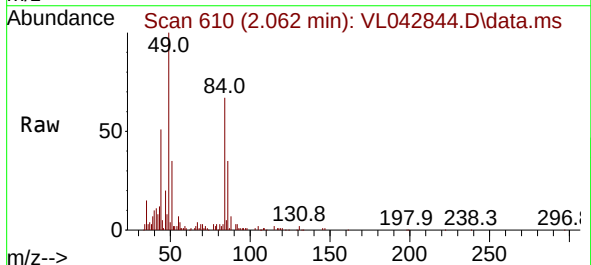
Manual Integrations
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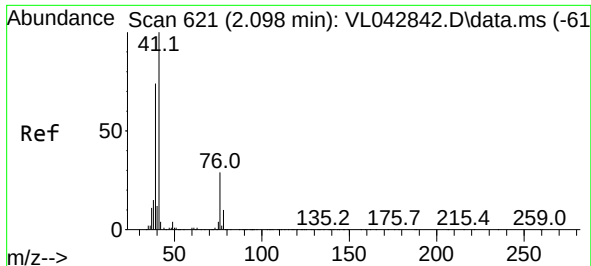
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

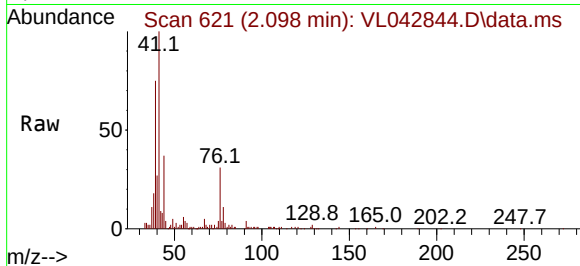
Tgt Ion: 84 Resp: 7661
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 49.2 36.0 54.0
86 51.6 52.0 78.0





#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

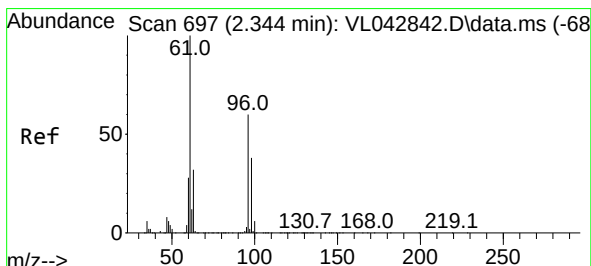
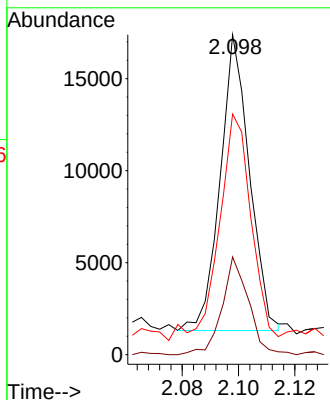
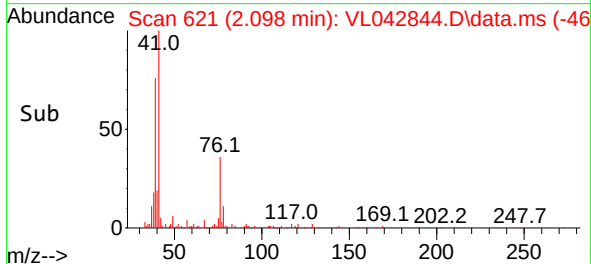
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



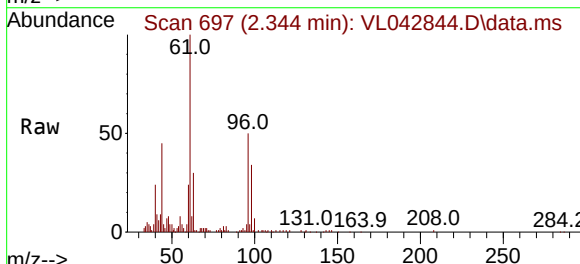
Tgt Ion: 41 Resp: 11598
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 86.2 57.8 86.6

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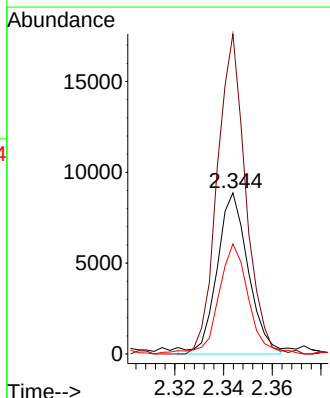
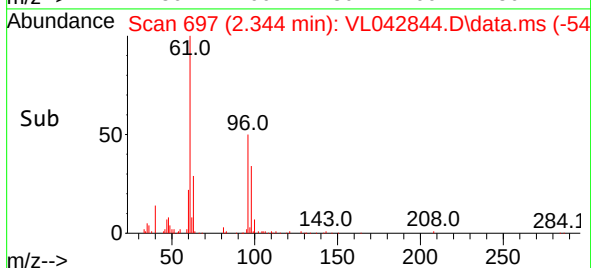
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

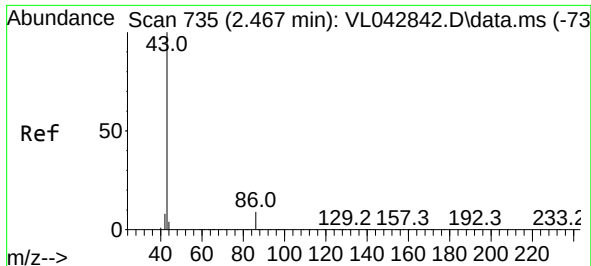


#22
 trans-1,2-Dichloroethene
 Concen: 1.082 ppbv m
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



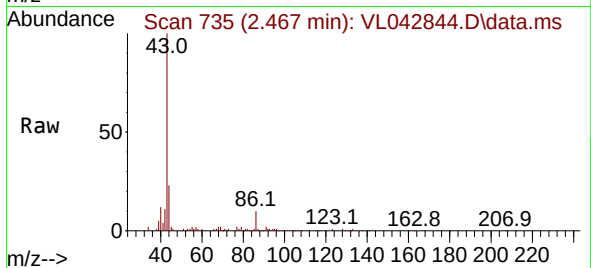
Tgt Ion: 96 Resp: 7882
 Ion Ratio Lower Upper
 96 100
 61 198.6 132.6 199.0
 98 68.3 50.0 75.0





#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

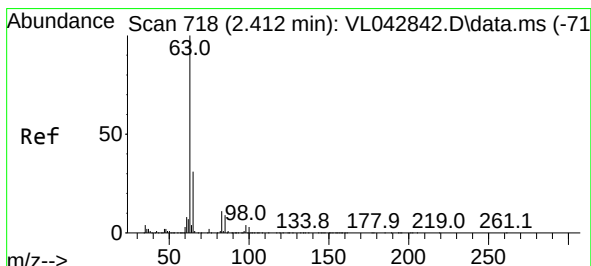
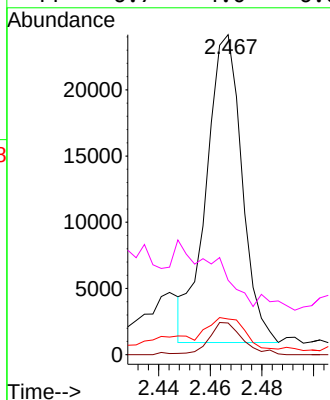
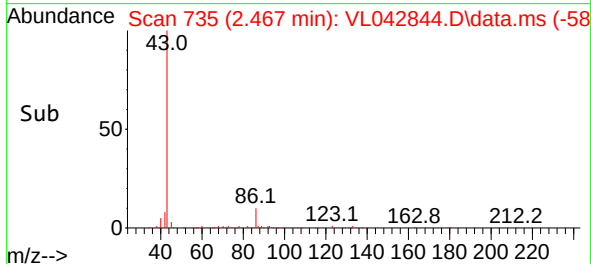
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion	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

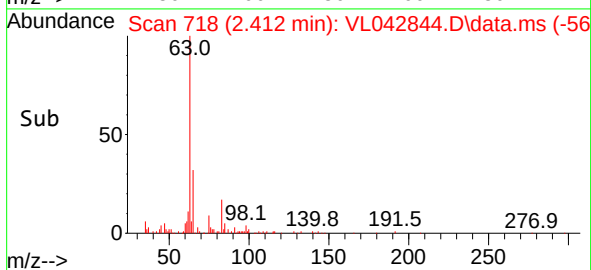
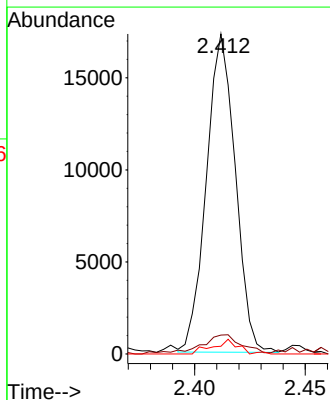
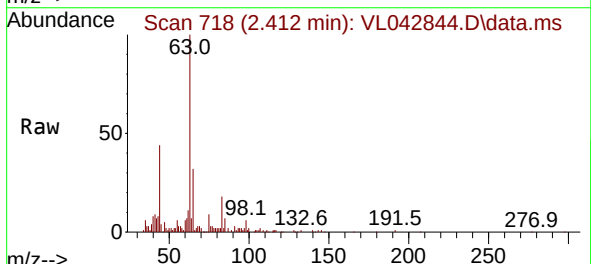
Manual Integrations
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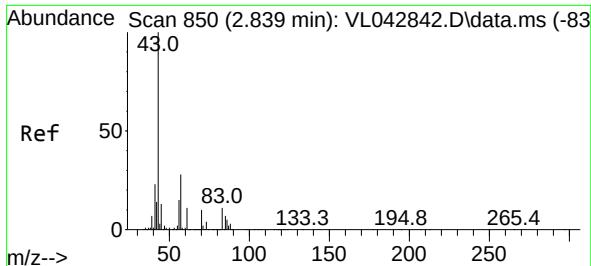
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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	Ratio	Lower	Upper
63	100		
98	4.8	2.1	6.5
100	2.4	1.7	5.1





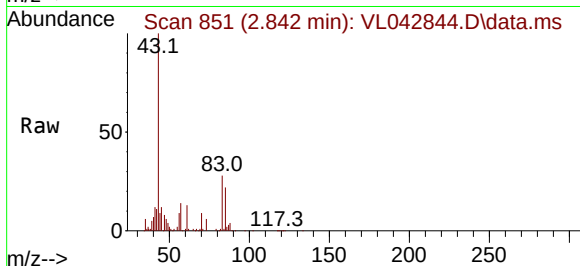
#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

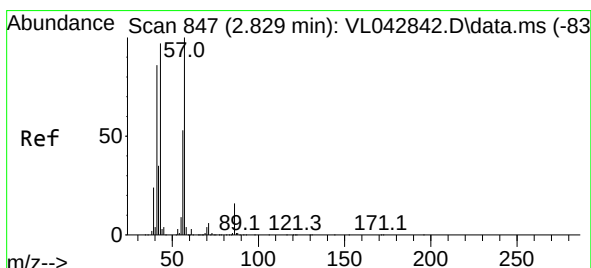
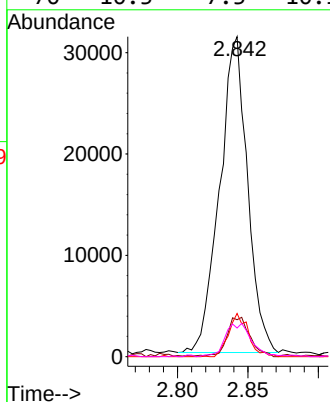
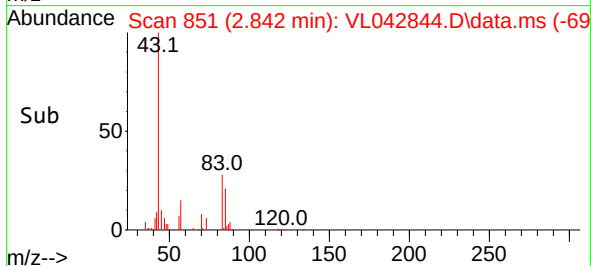


Tgt Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.7	7.4	11.2
70	10.3	7.3	10.9

Manual Integrations

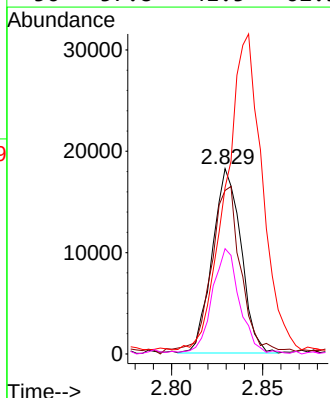
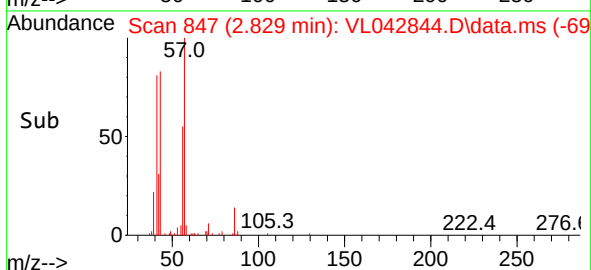
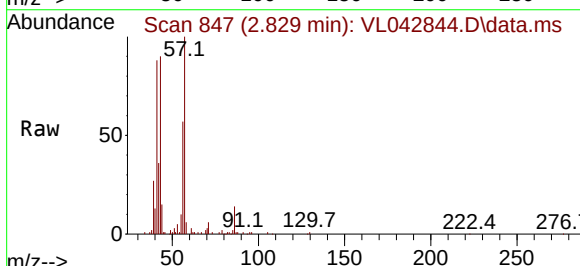
APPROVED

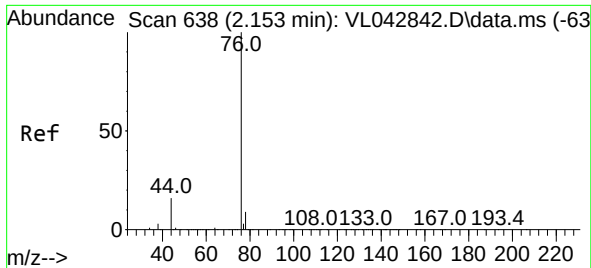
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

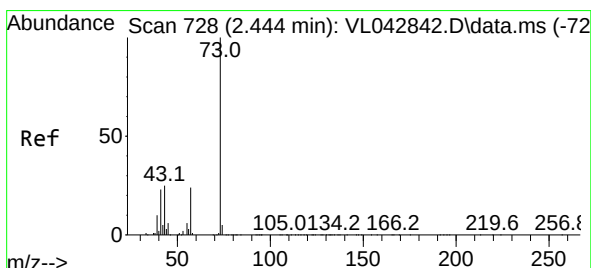
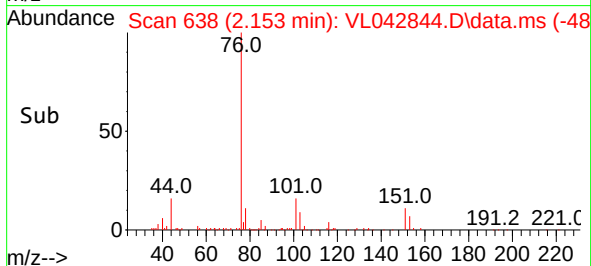
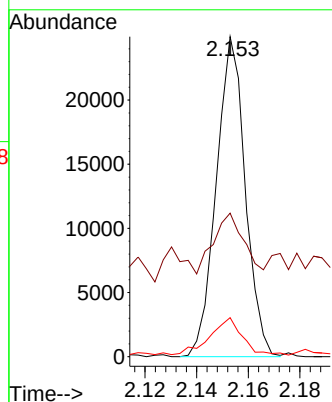
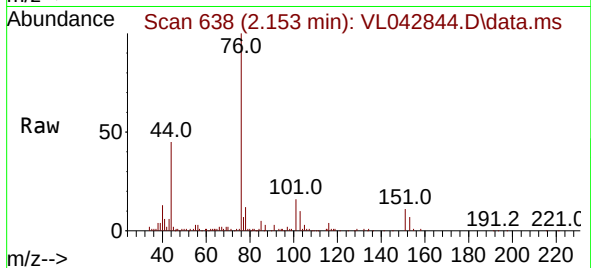
Tgt Ion:	76	Resp:	19450
Ion Ratio	Lower	Upper	
76	100		
44	88.3	15.9	23.9
78	17.1	9.5	14.3

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

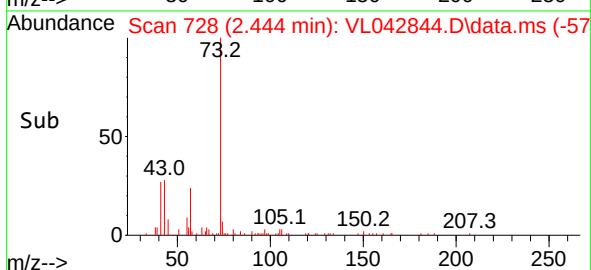
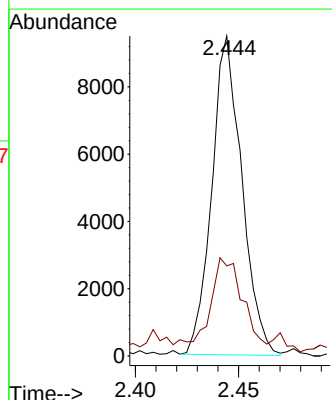
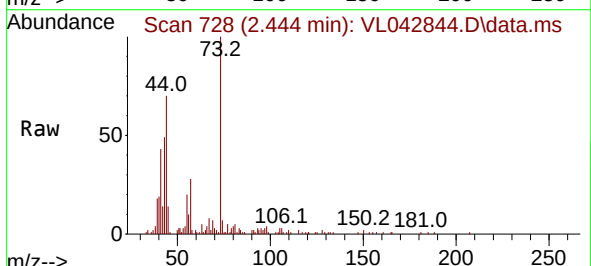
RT: 2.444 min Scan# 728

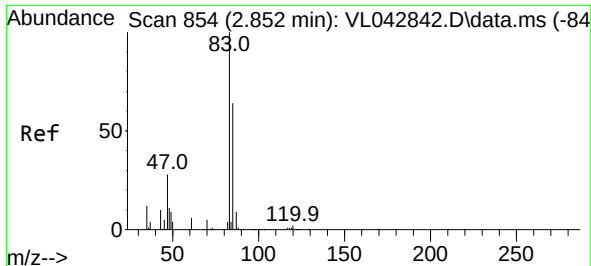
Delta R.T. 0.000 min

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





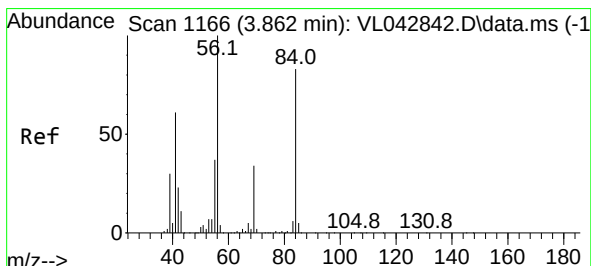
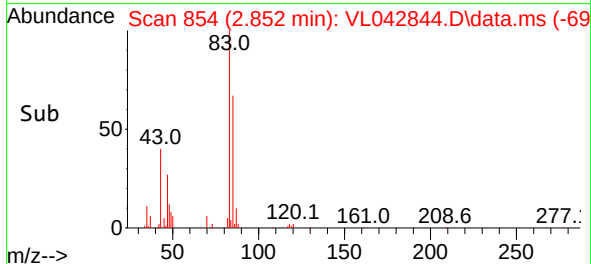
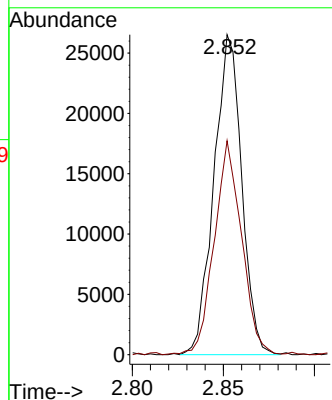
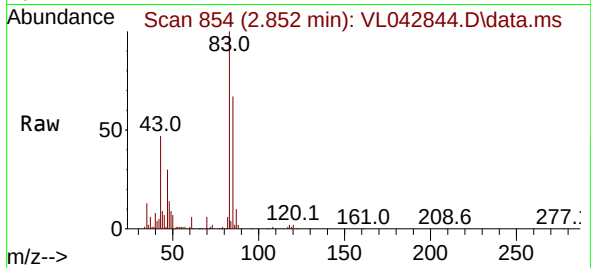
#29
Chloroform
Concen: 1.034 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 2805
Ion Ratio Lower Upper
83 100
85 66.6 51.1 76.7

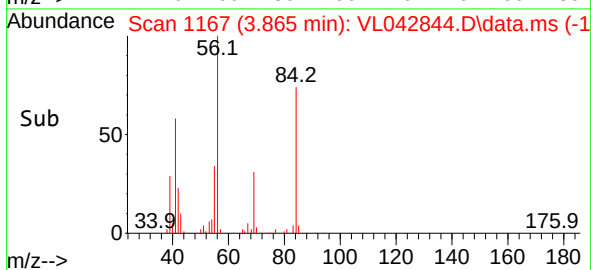
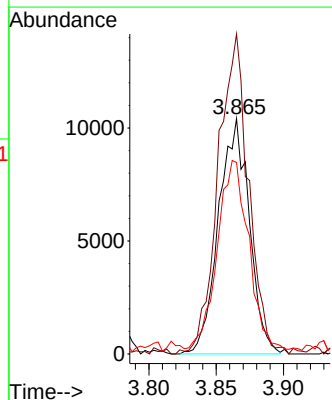
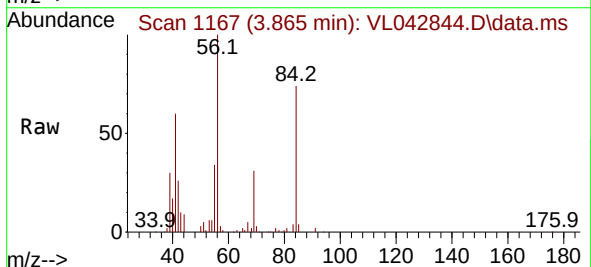
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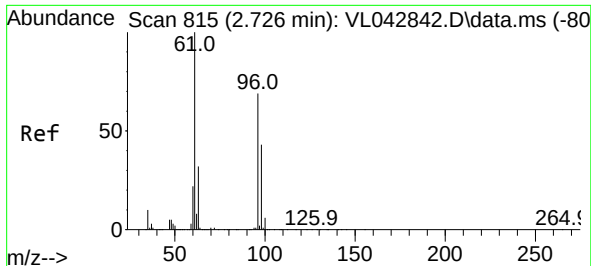
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 0.990 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

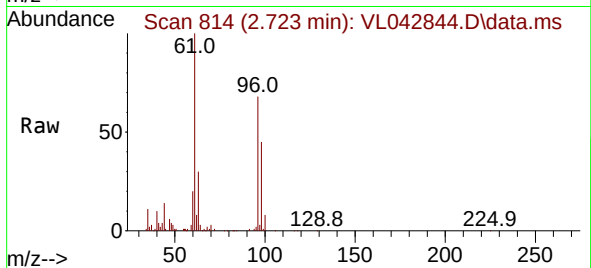
Tgt Ion: 84 Resp: 16492
Ion Ratio Lower Upper
84 100
56 135.9 98.8 148.2
41 84.9 61.3 91.9





#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

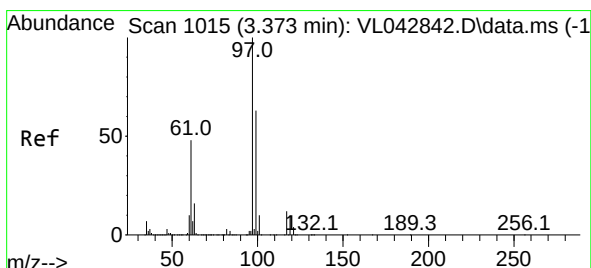
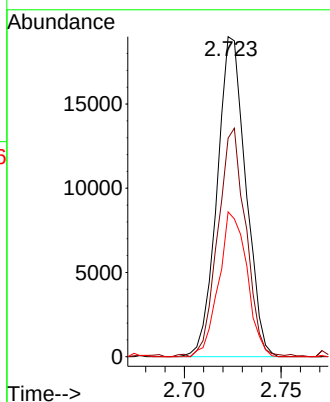
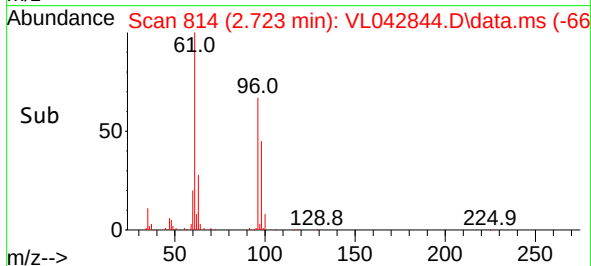
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



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

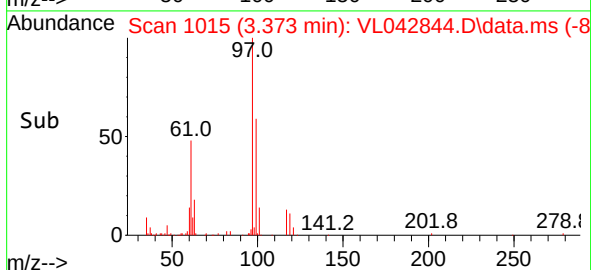
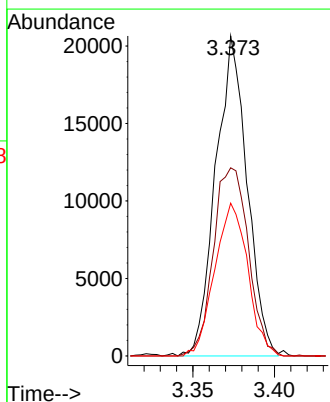
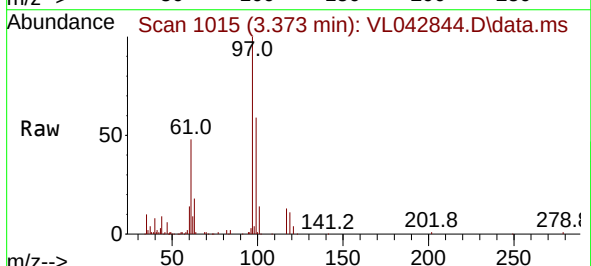
Manual Integrations
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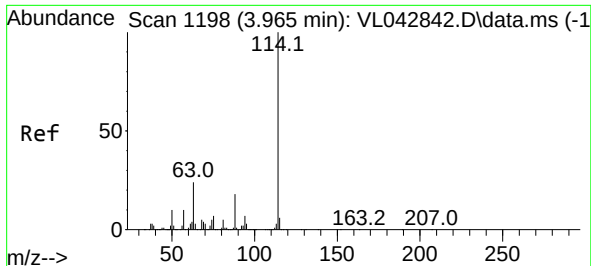
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#32
 1,1,1-Trichloroethane
 Concen: 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 :

VSTDICC001

Tgt Ion:114 Resp: 40030

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

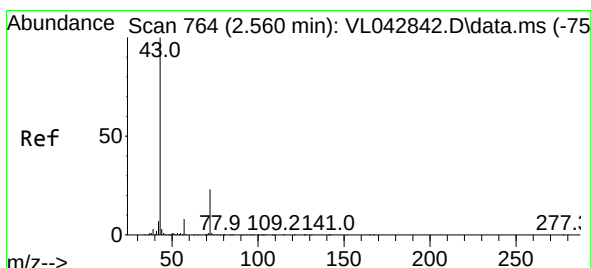
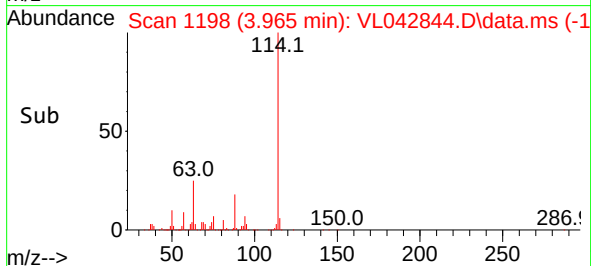
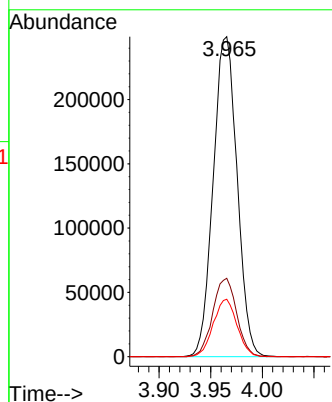
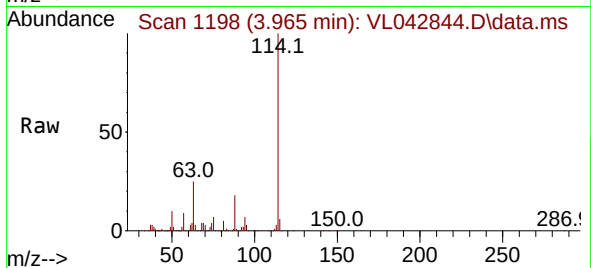
88 17.9 14.4 21.6

Manual Integrations

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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

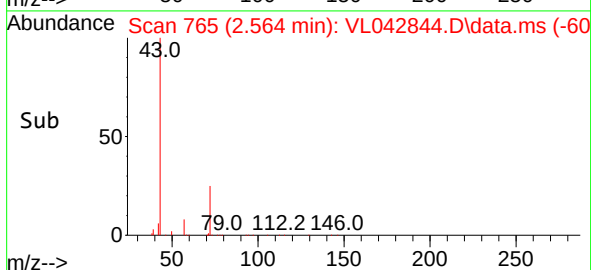
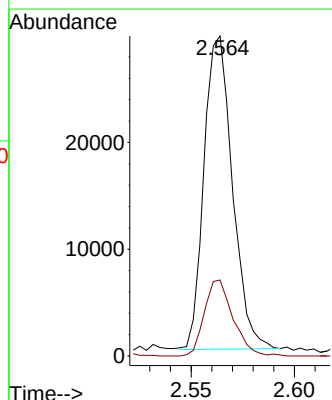
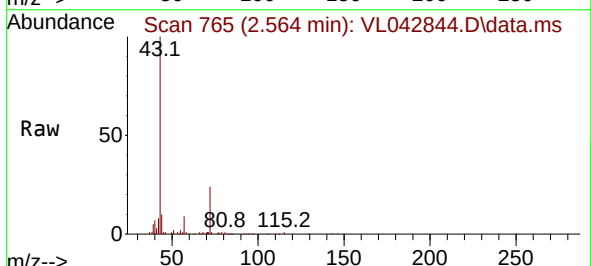
Acq: 13 Aug 2025 09:41

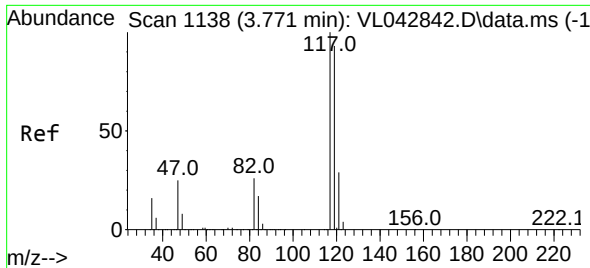
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

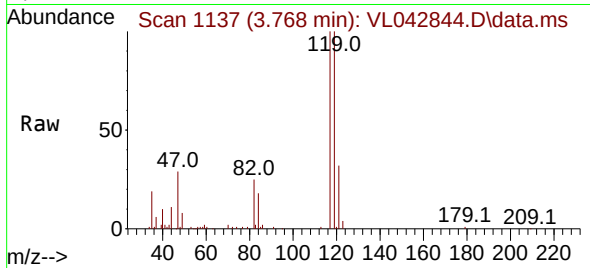
72 24.4 18.6 28.0





#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

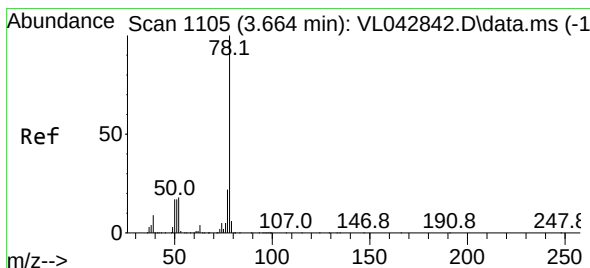
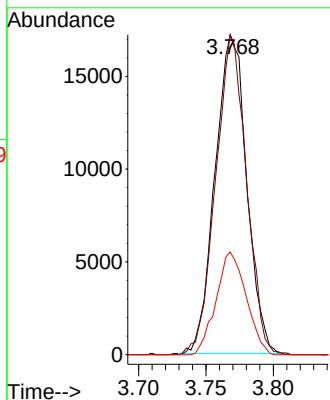
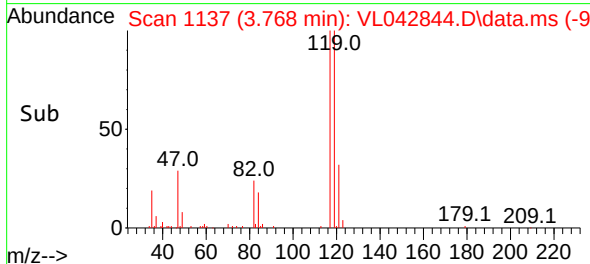
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



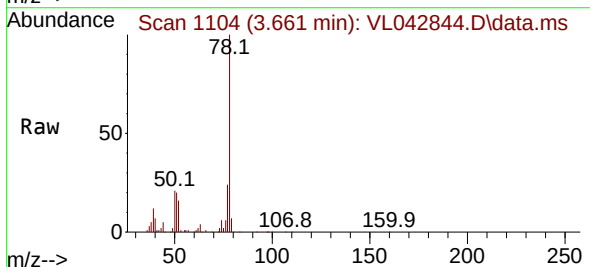
Tgt Ion: 117 Resp: 2800
Ion Ratio Lower Upper
117 100
119 100.5 74.7 112.1
121 32.3 23.2 34.8

Manual Integrations
APPROVED

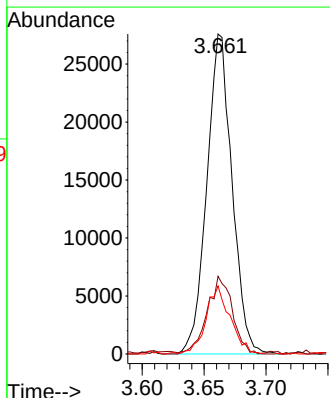
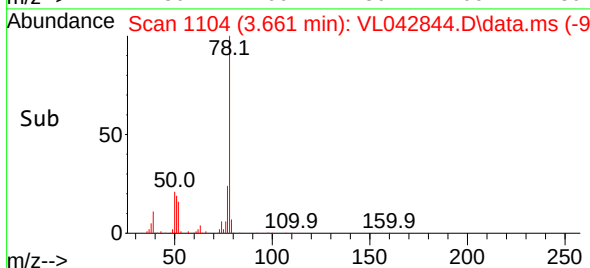
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

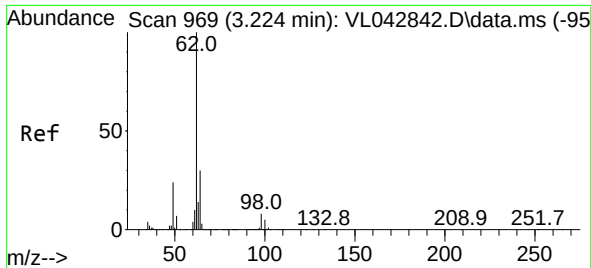


#36
Benzene
Concen: 1.021 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



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

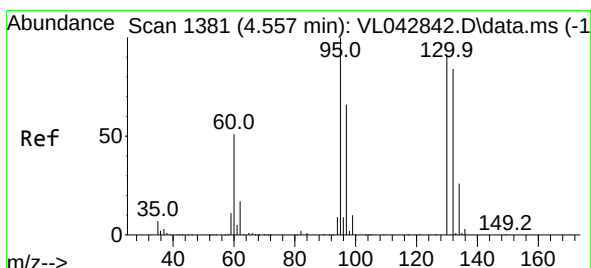
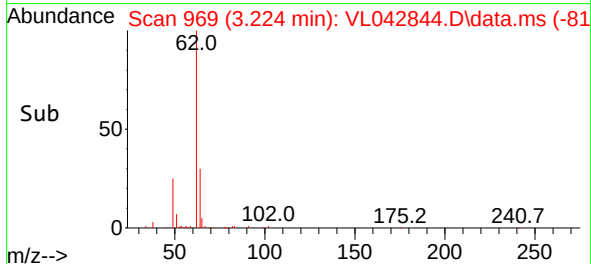
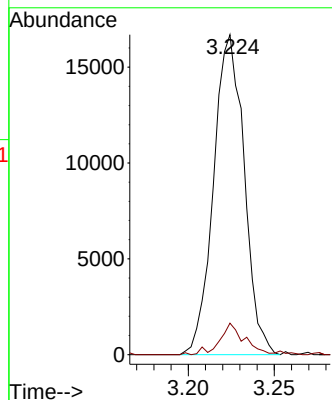
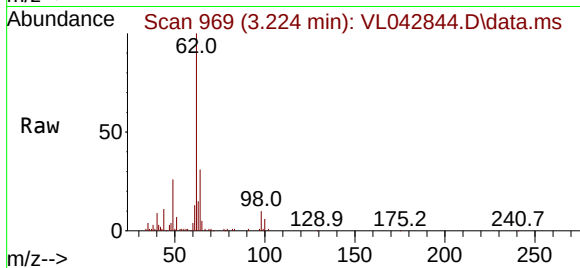
98 8.4 5.9 8.9

Manual Integrations

APPROVED

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

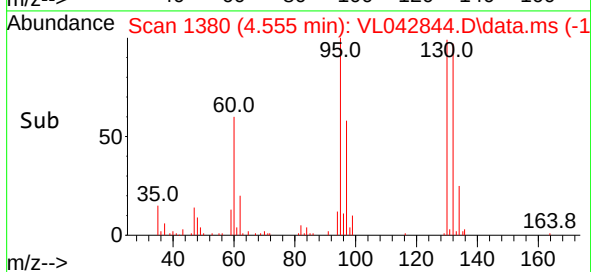
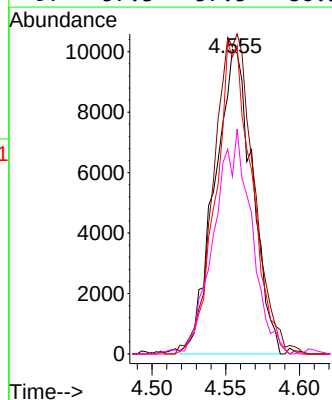
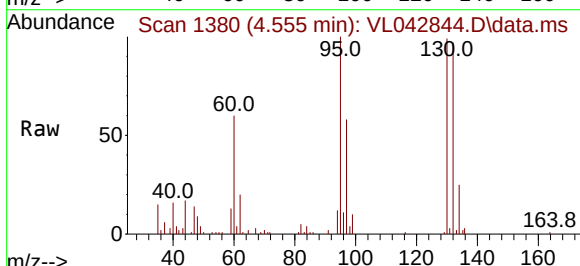
Ion Ratio Lower Upper

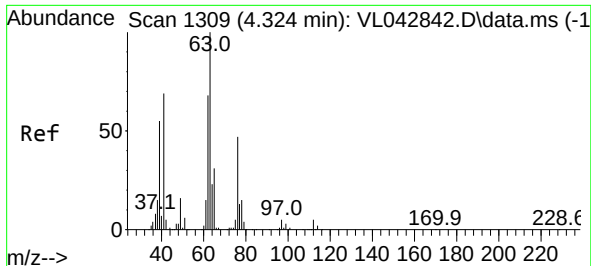
130 100

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

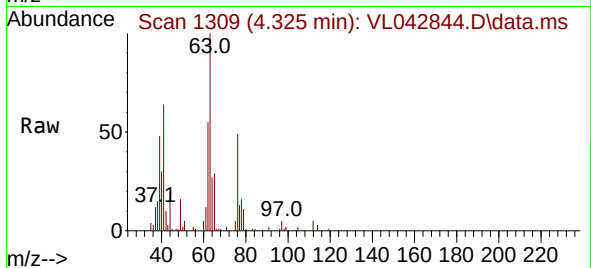
Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

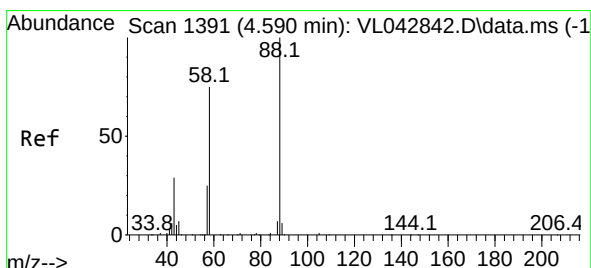
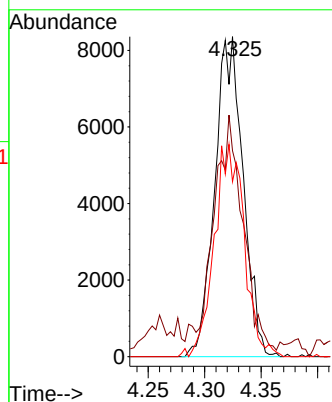
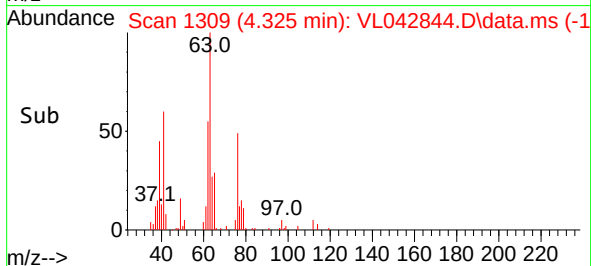
VSTDICC001



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

Manual Integrations
APPROVED

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



#40

1,4-Dioxane

Concen: 1.127 ppbv m

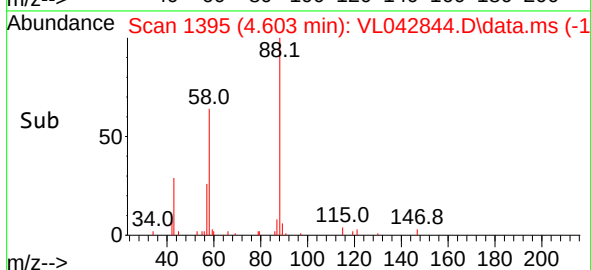
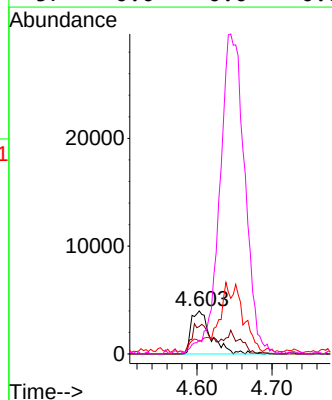
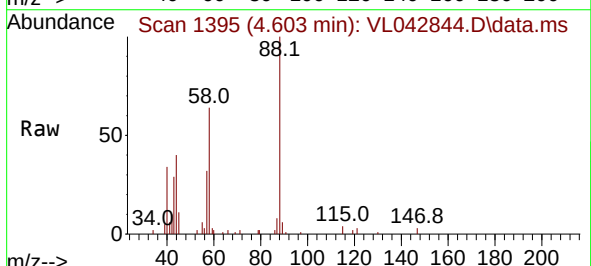
RT: 4.603 min Scan# 1395

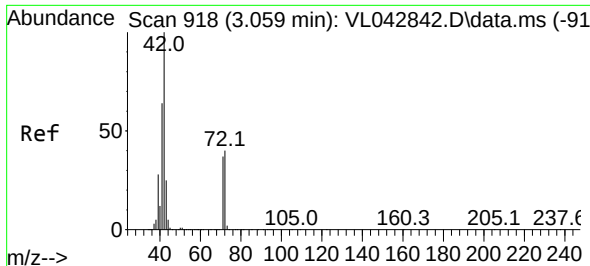
Delta R.T. 0.013 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

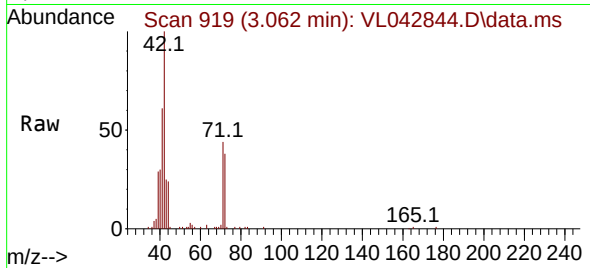
Tgt Ion:	88	Resp:	7386
Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.8	80.6#
43	0.0	22.8	34.2#
57	0.0	0.0	0.0





#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

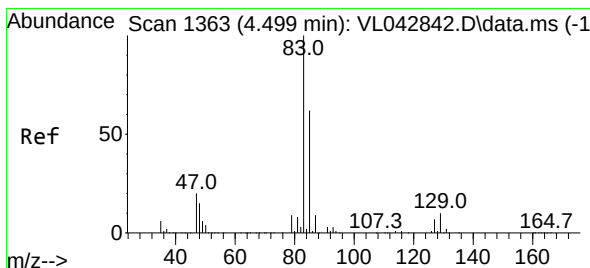
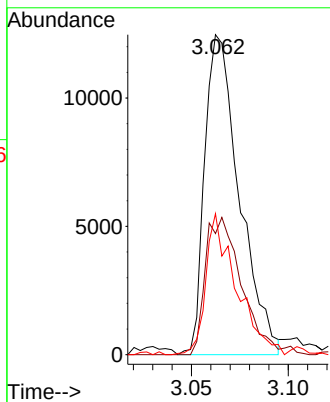
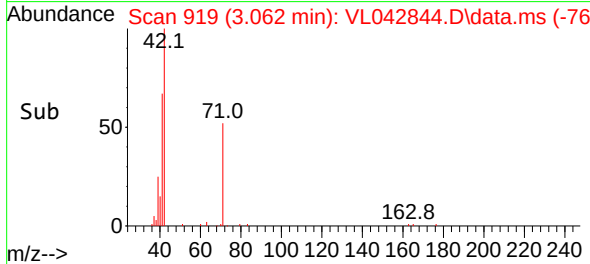
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



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

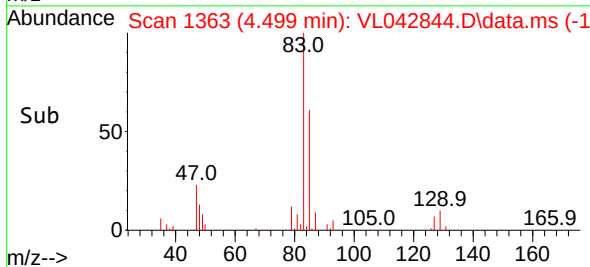
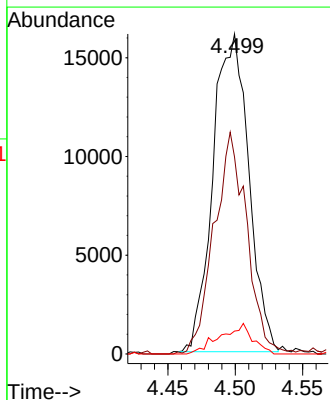
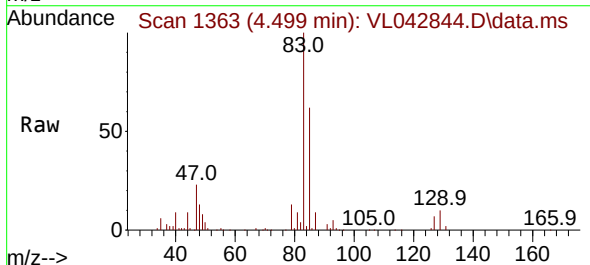
Manual Integrations
APPROVED

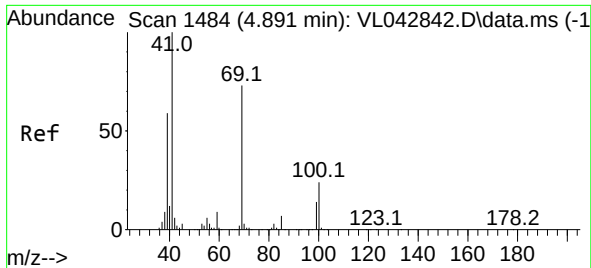
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





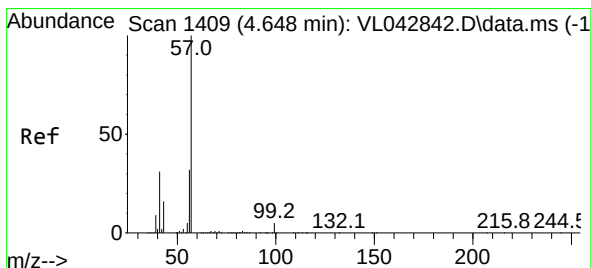
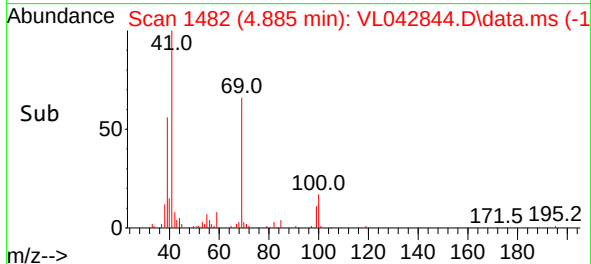
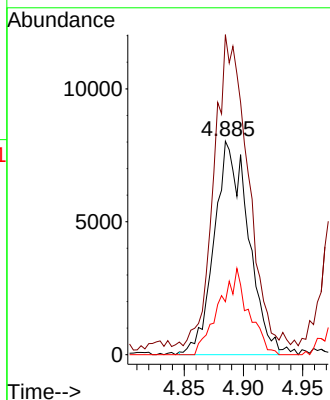
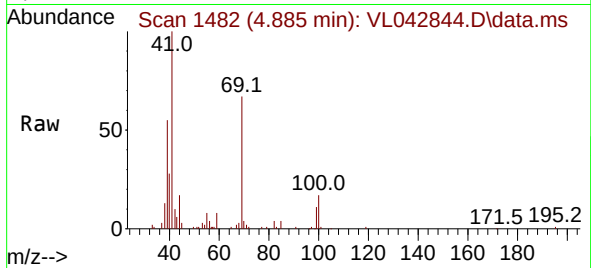
#43
Methyl Methacrylate
Concen: 1.022 ppbv m
RT: 4.885 min Scan# 1482
Delta R.T. -0.006 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

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

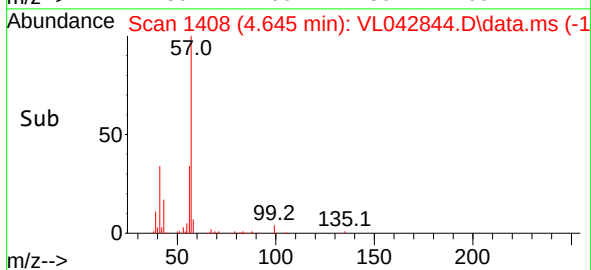
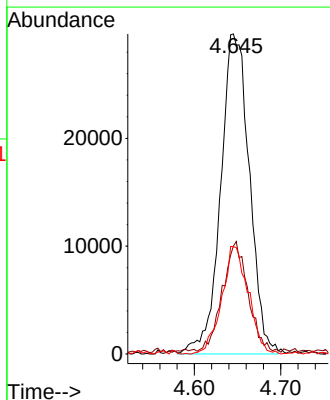
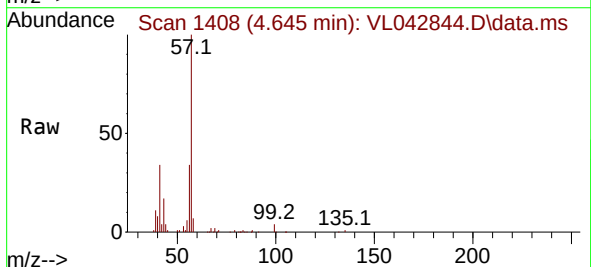
Manual Integrations
APPROVED

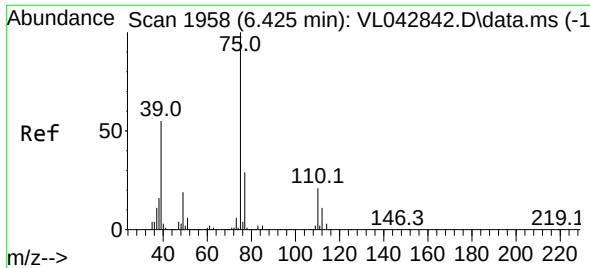
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

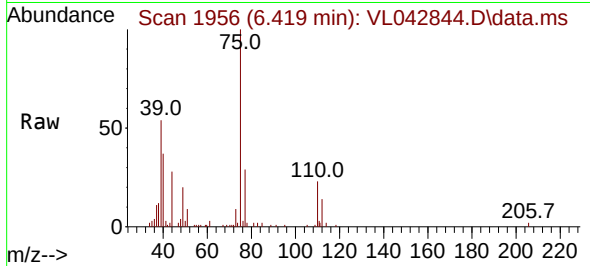
Tgt Ion: 57 Resp: 68813
Ion Ratio Lower Upper
57 100
41 32.7 24.8 37.2
56 31.3 25.5 38.3





#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

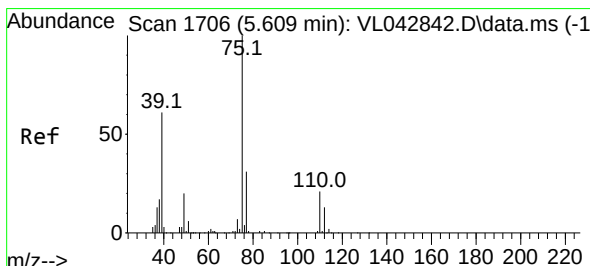
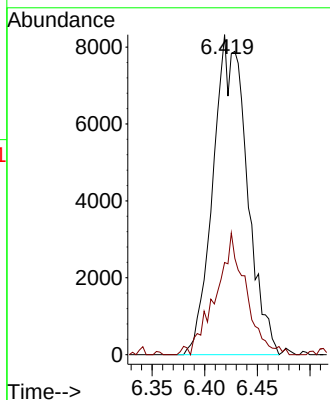
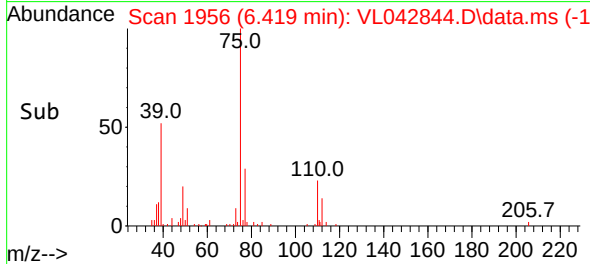
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 18580
 Ion Ratio Lower Upper
 75 100
 77 28.8 23.8 35.6

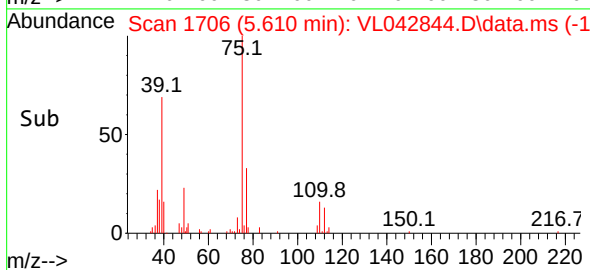
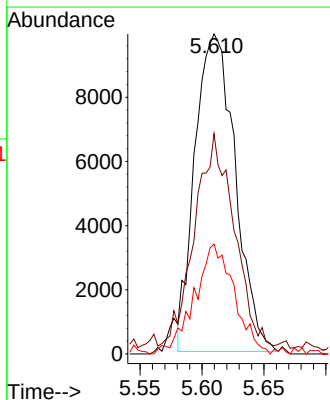
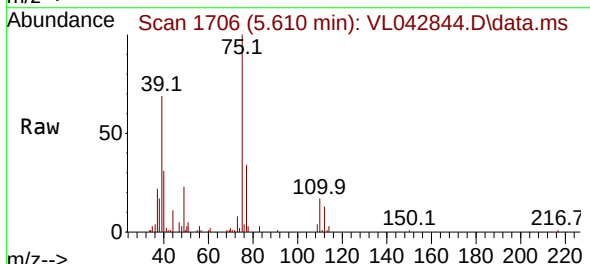
Manual Integrations
 APPROVED

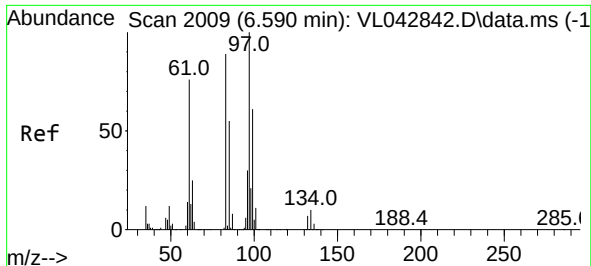
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 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

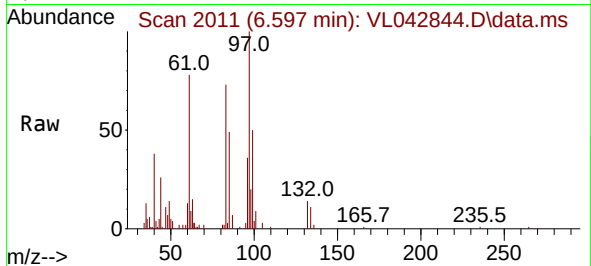
Tgt Ion: 75 Resp: 22372
 Ion Ratio Lower Upper
 75 100
 39 66.4 48.9 73.3
 77 33.8 24.9 37.3





#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

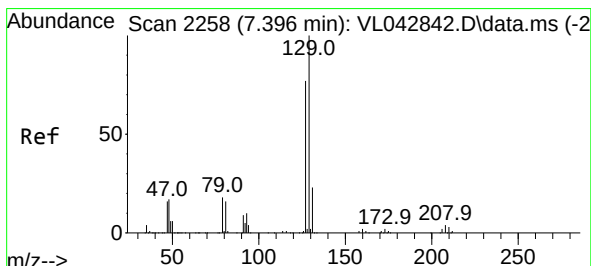
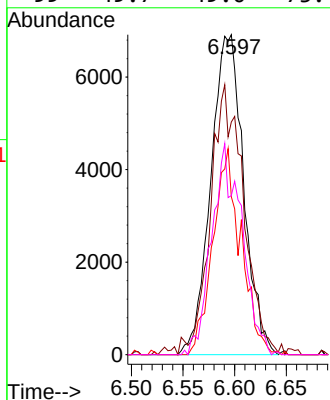
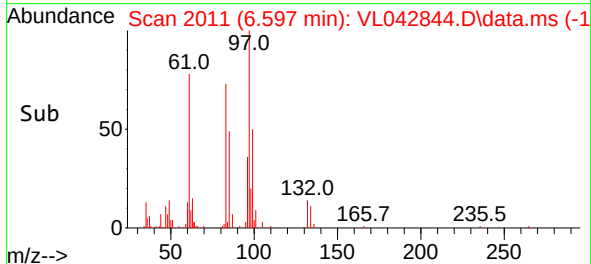
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

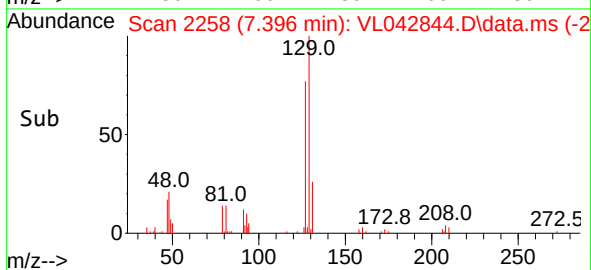
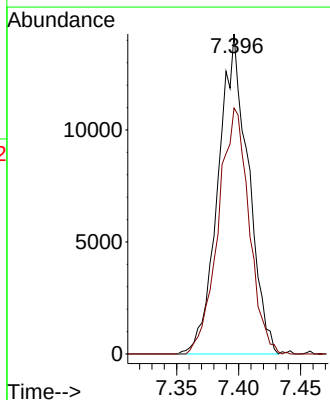
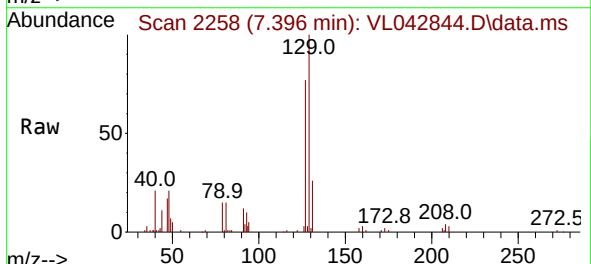
Manual Integrations
APPROVED

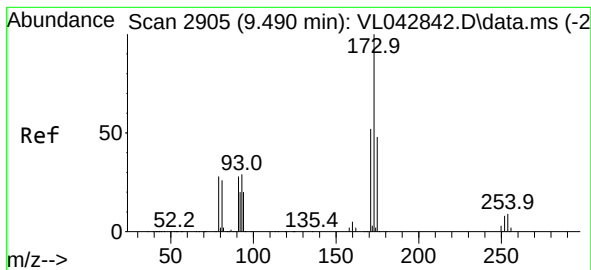
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

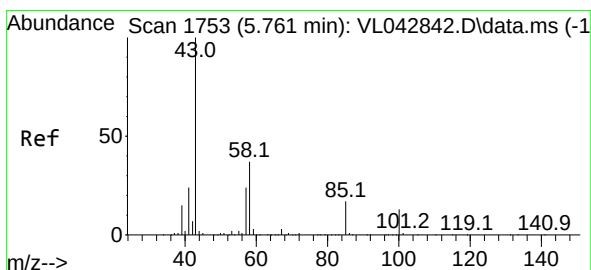
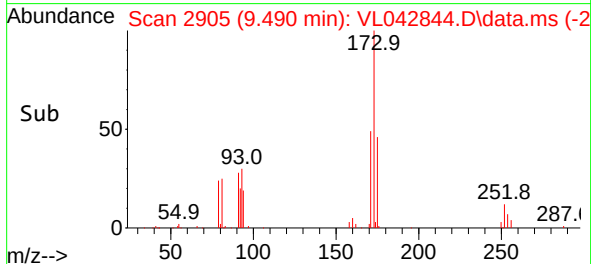
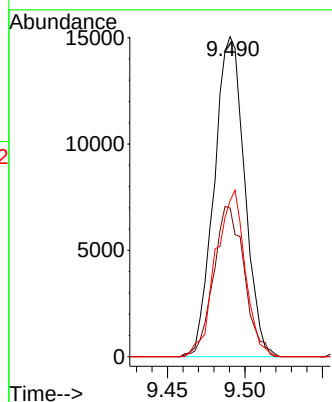
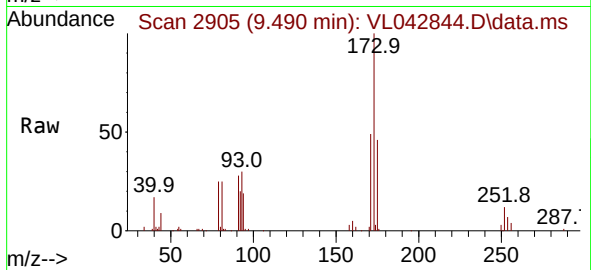
VSTDIC001

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

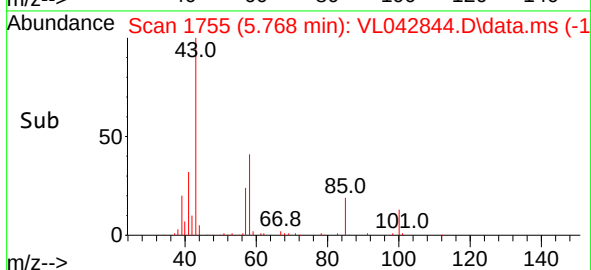
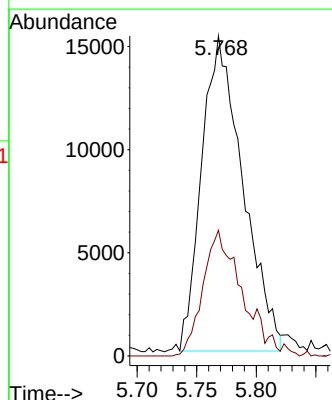
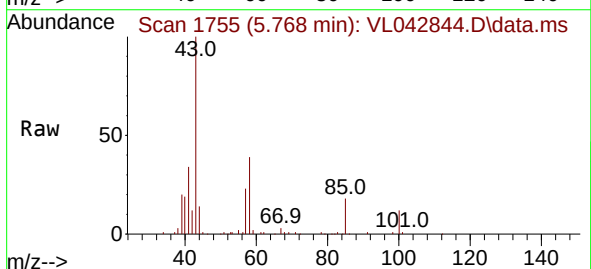
RT: 5.768 min Scan# 1755

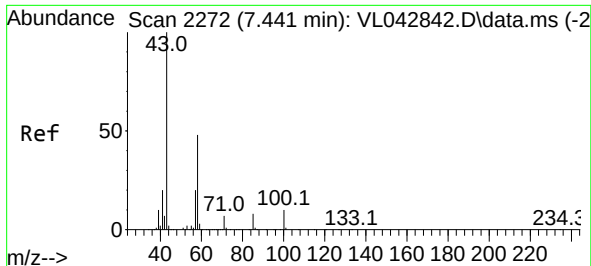
Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

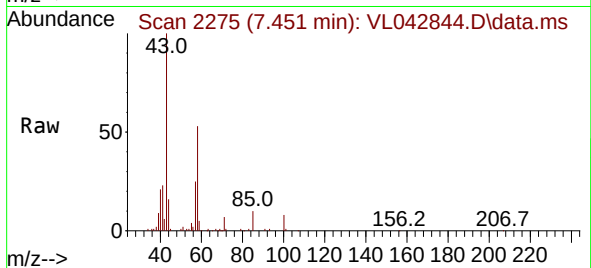
Tgt Ion:	43	Resp:	36710
Ion Ratio	Lower	Upper	
43	100		
58	38.3	29.8	44.8





#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

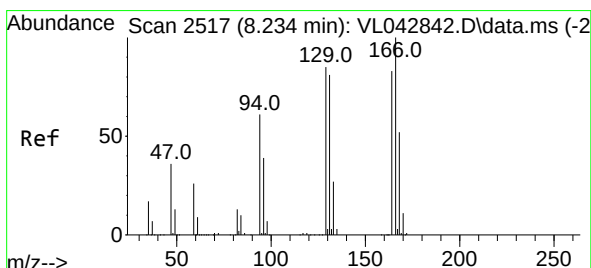
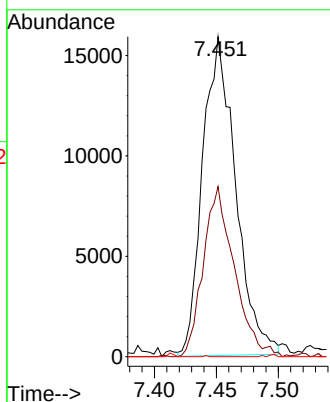
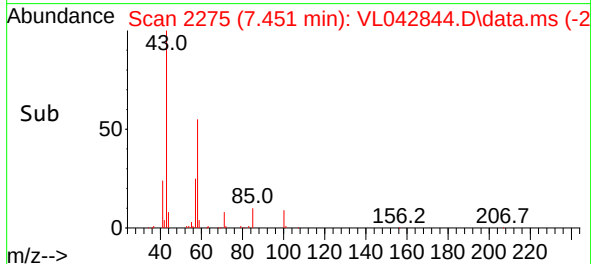
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

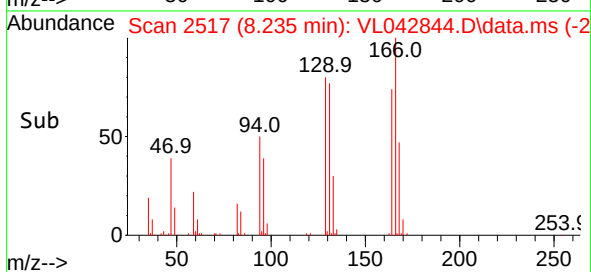
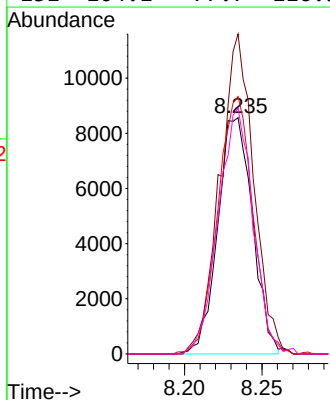
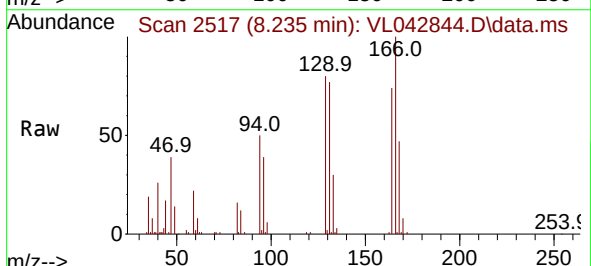
Manual Integrations
APPROVED

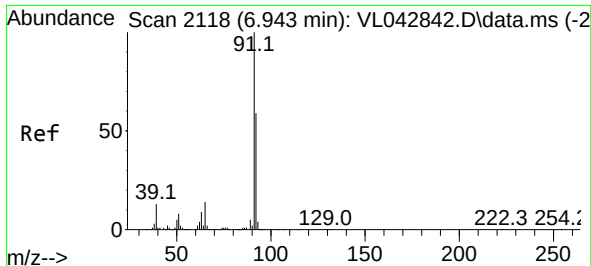
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

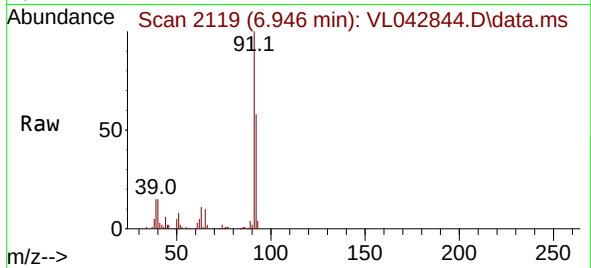
Tgt Ion:164 Resp: 13322
Ion Ratio Lower Upper
164 100
166 135.4 96.5 144.7
129 110.5 81.8 122.6
131 104.1 77.7 116.5





#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

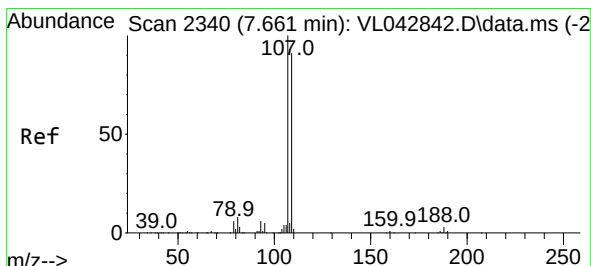
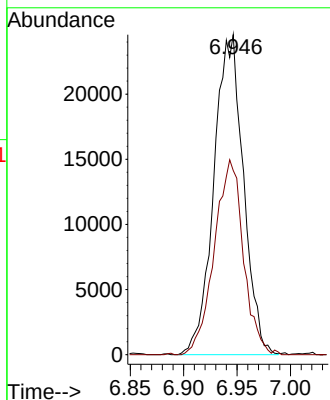
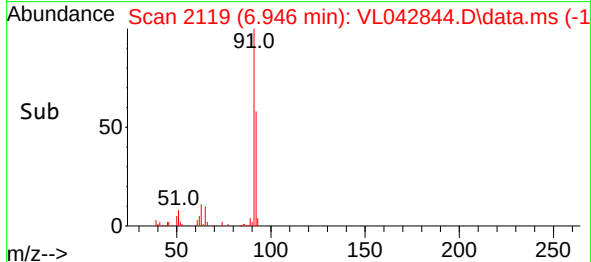
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



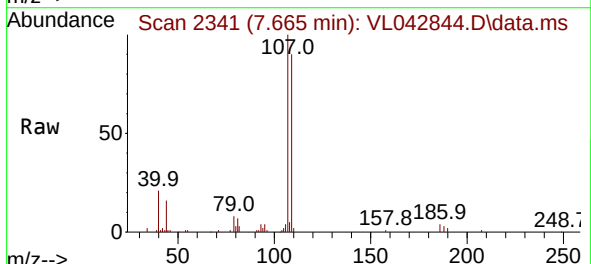
Tgt Ion: 91 Resp: 47250
Ion Ratio Lower Upper
91 100
92 60.1 47.8 71.6

Manual Integrations
APPROVED

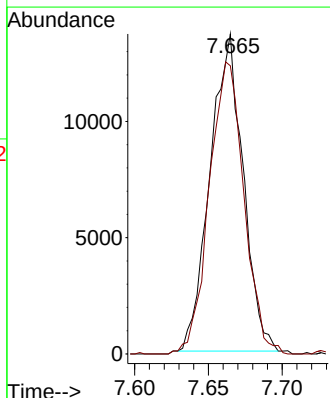
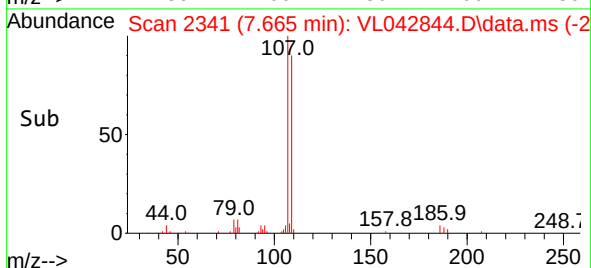
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

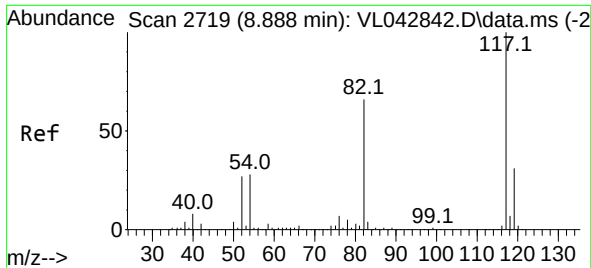


#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



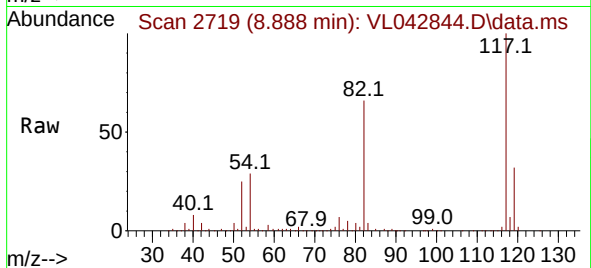
Tgt Ion:107 Resp: 21280
Ion Ratio Lower Upper
107 100
109 89.9 72.5 108.7





#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

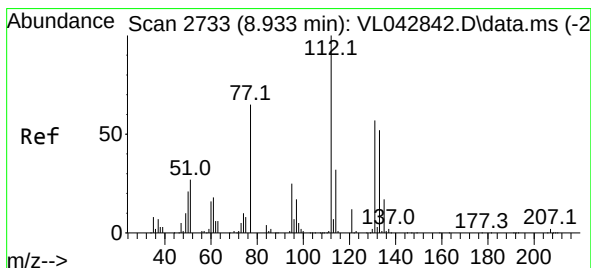
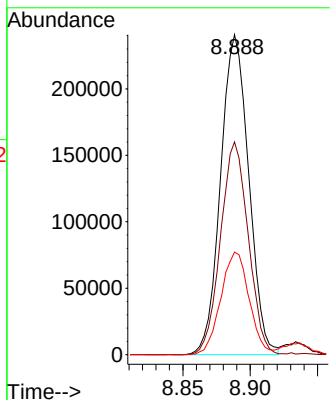
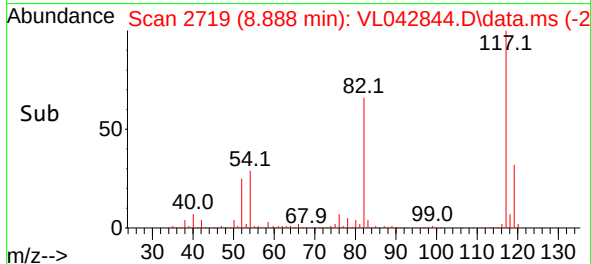
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

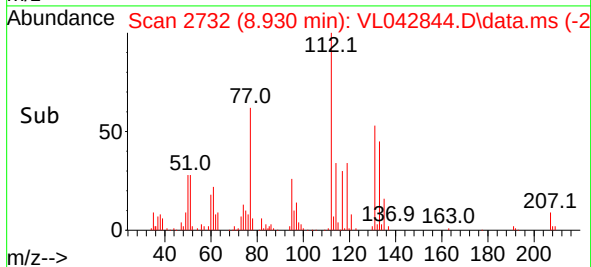
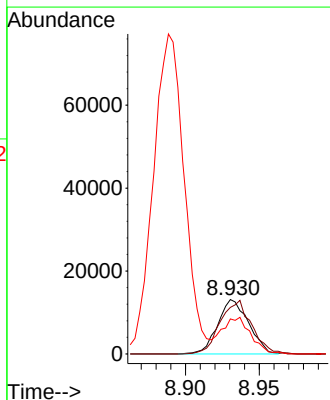
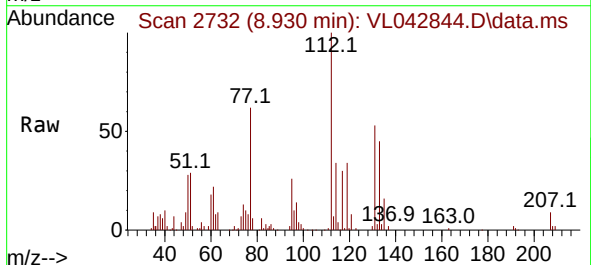
Manual Integrations
APPROVED

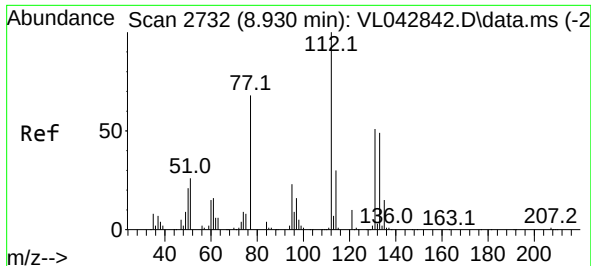
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





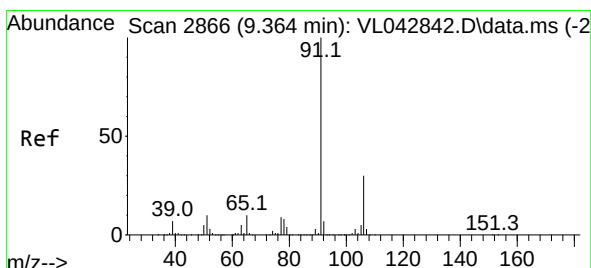
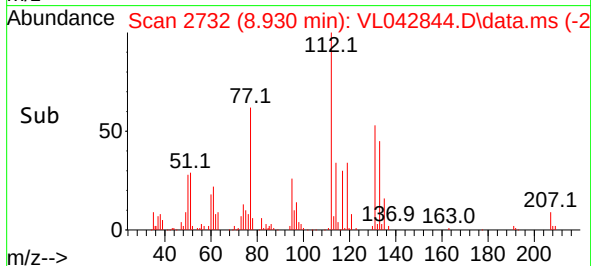
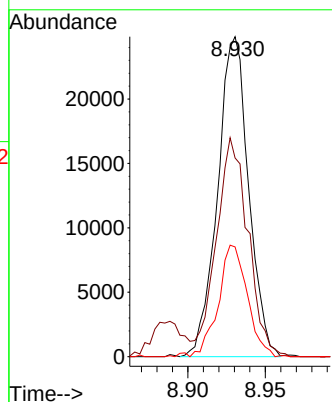
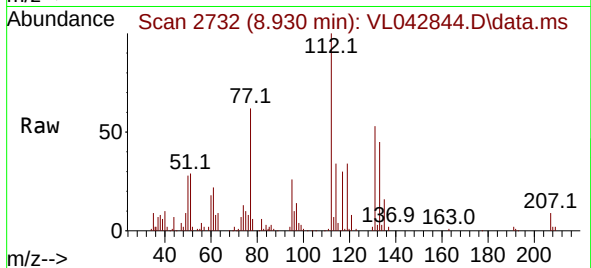
#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

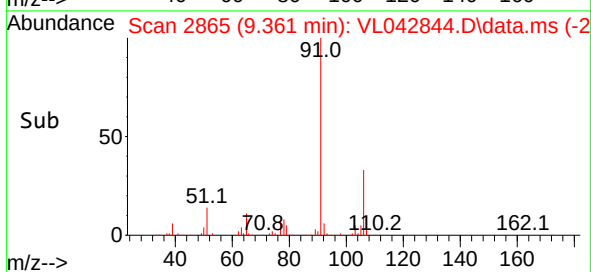
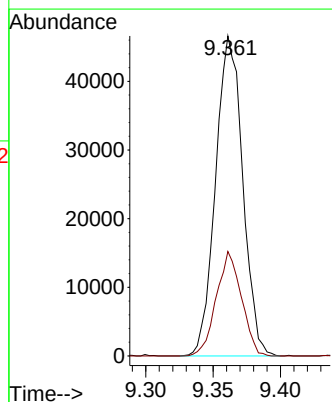
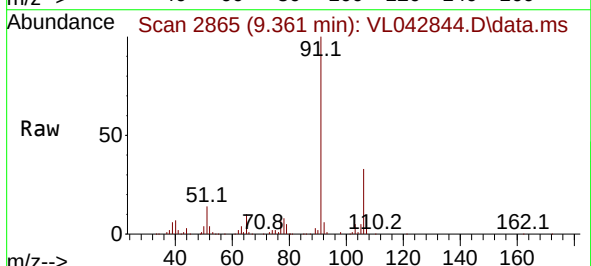
Manual Integrations
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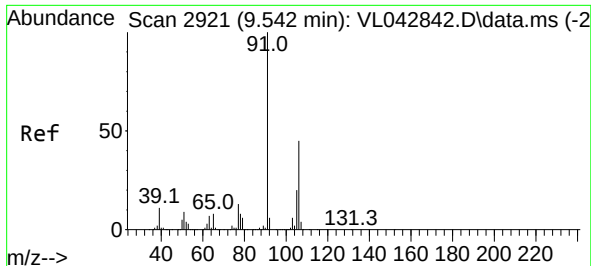
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





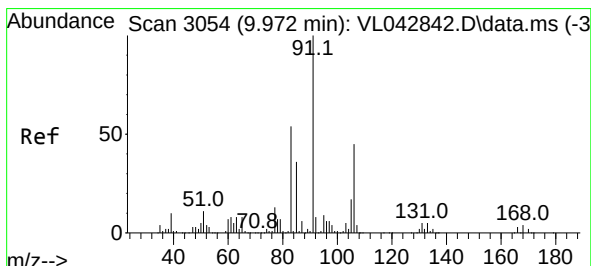
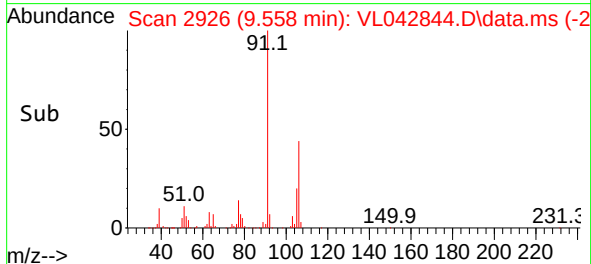
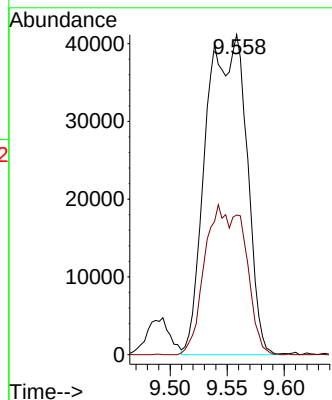
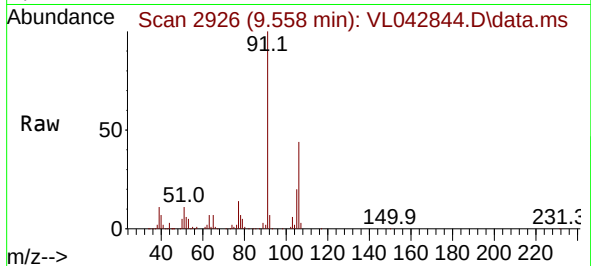
#59
m/p-Xylene
Concen: 2.098 ppbv m
RT: 9.558 min Scan# 2921
Delta R.T. 0.016 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 101634
Ion Ratio Lower Upper
91 100
106 46.6 0.0 0.0

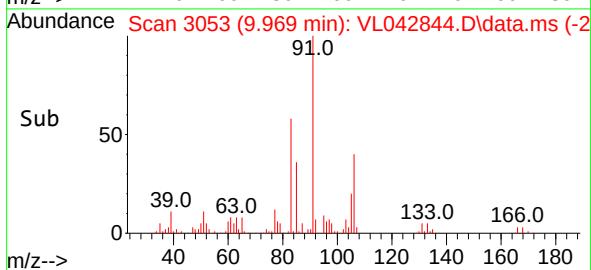
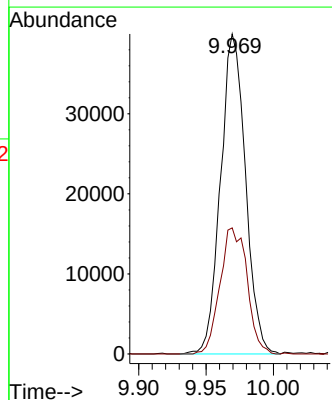
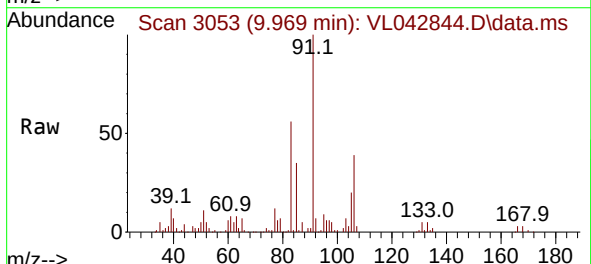
Manual Integrations
APPROVED

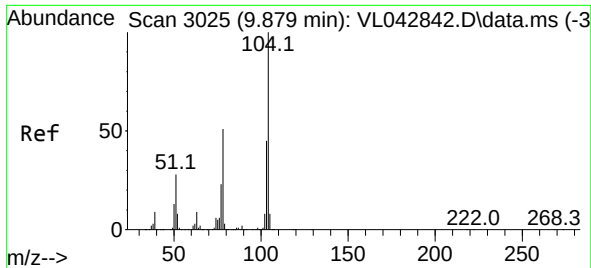
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





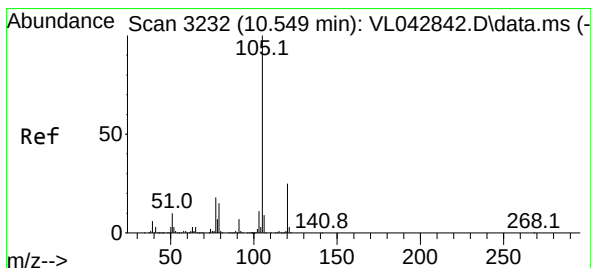
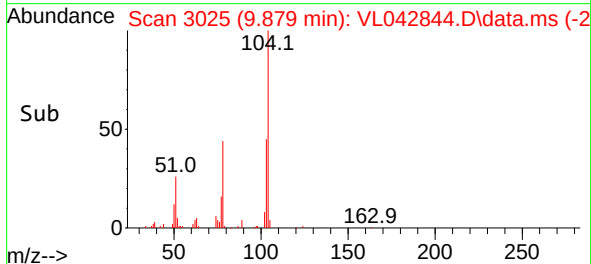
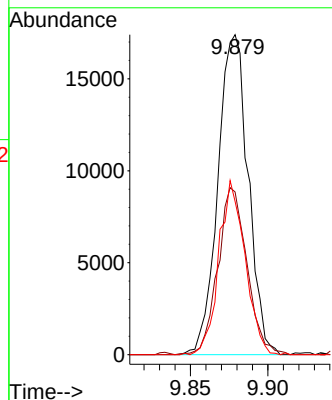
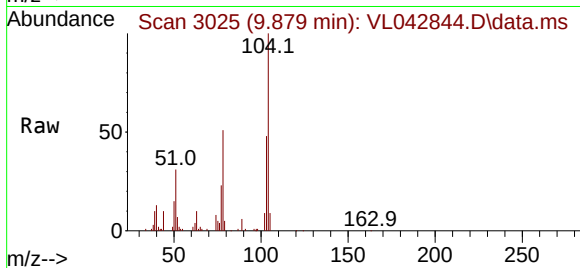
#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

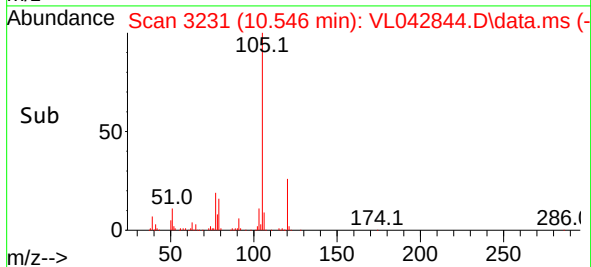
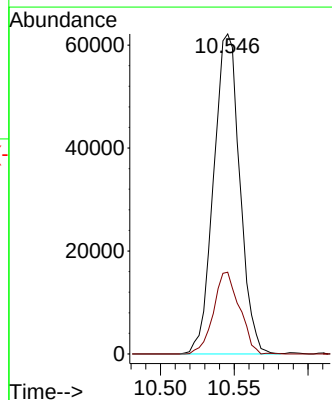
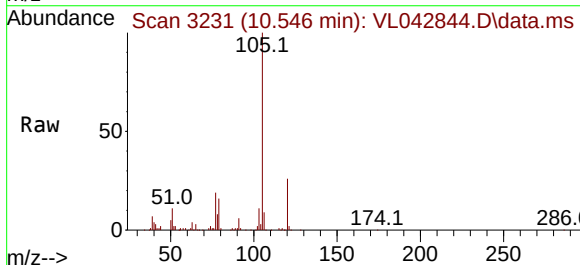
Manual Integrations
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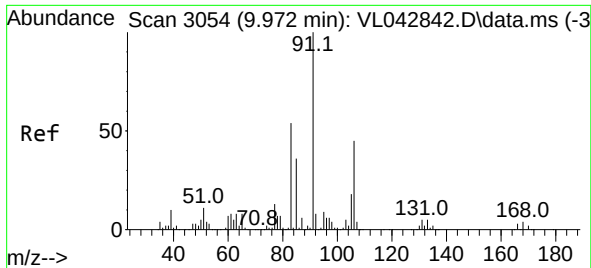
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

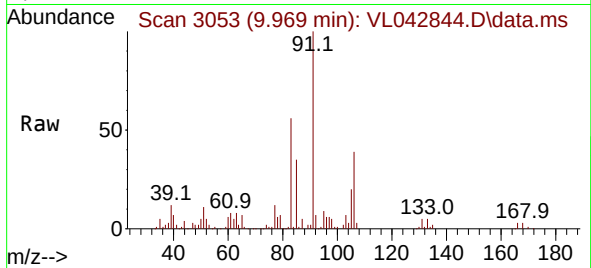
Tgt Ion:105 Resp: 76708
Ion Ratio Lower Upper
105 100
120 25.4 20.6 30.8





#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

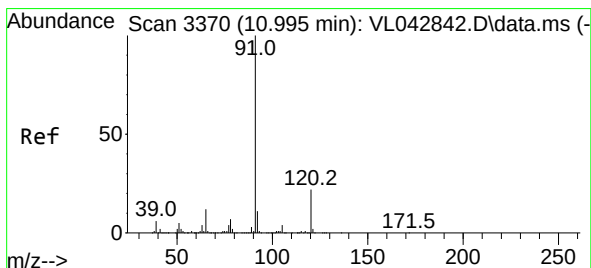
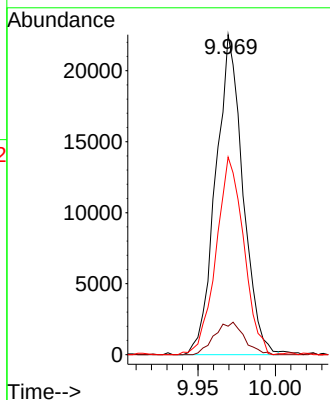
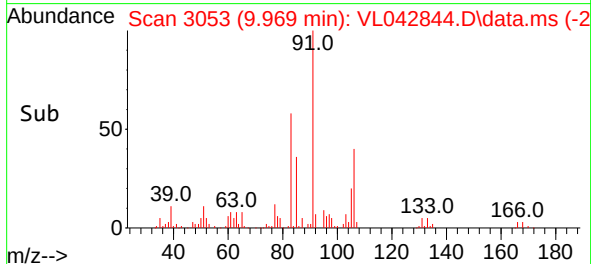
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

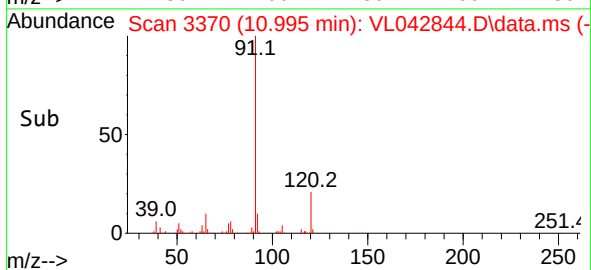
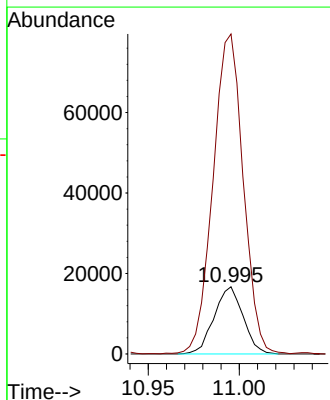
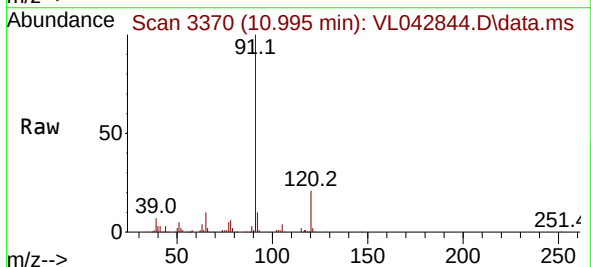
Manual Integrations
APPROVED

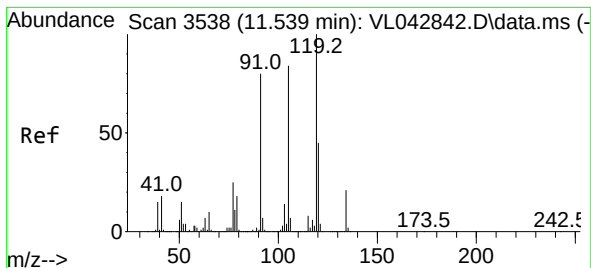
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

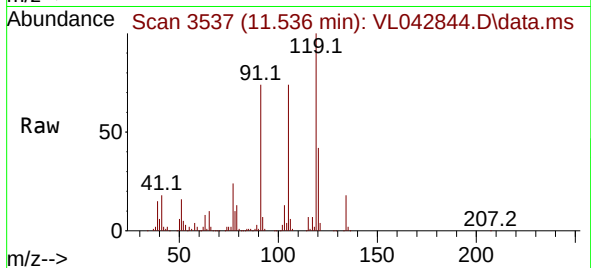
Tgt Ion:120 Resp: 18462
Ion Ratio Lower Upper
120 100
91 496.0 375.8 563.6





#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

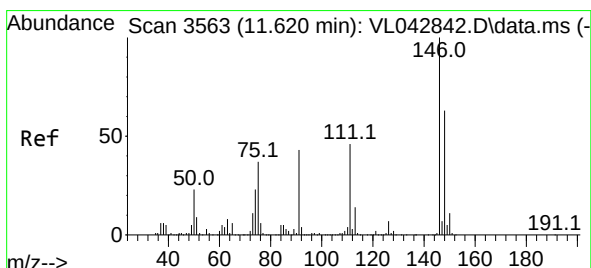
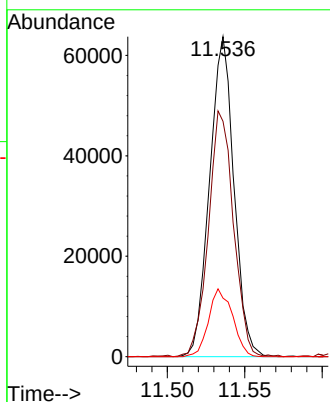
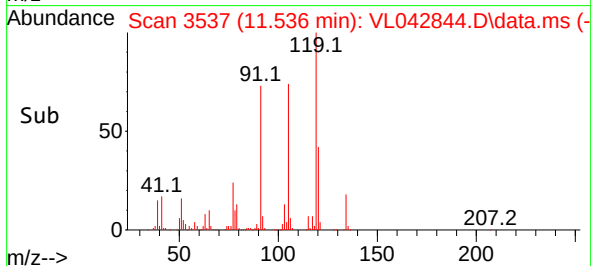
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



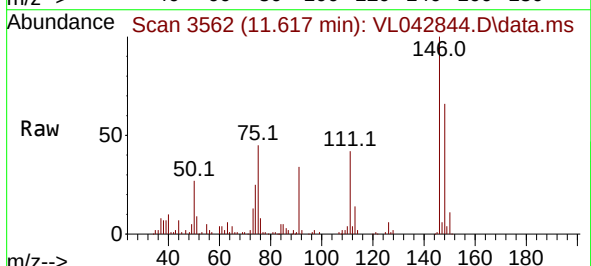
Tgt Ion:119 Resp: 6961
Ion Ratio Lower Upper
119 100
91 79.3 63.9 95.9
134 20.9 17.0 25.4

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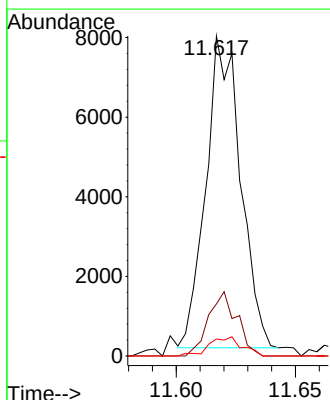
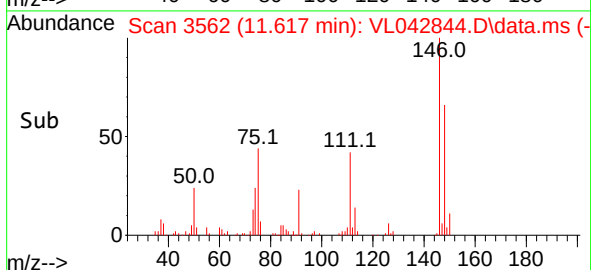
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

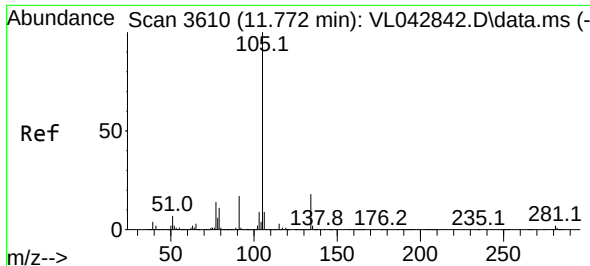


#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



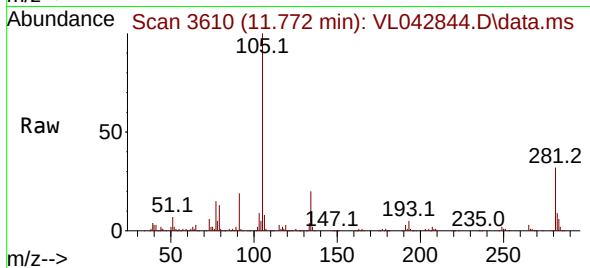
Tgt Ion: 91 Resp: 7900
Ion Ratio Lower Upper
91 100
126 16.9 14.2 21.4
128 5.8 5.0 7.6





#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

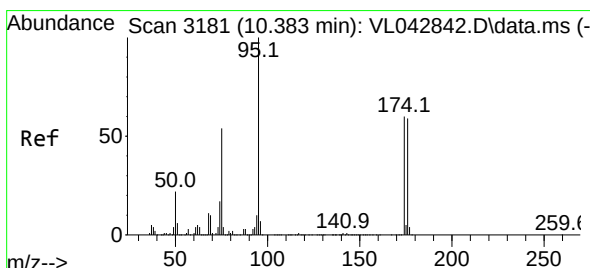
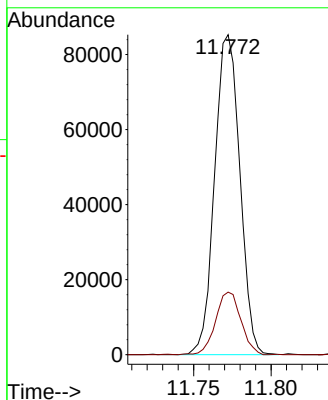
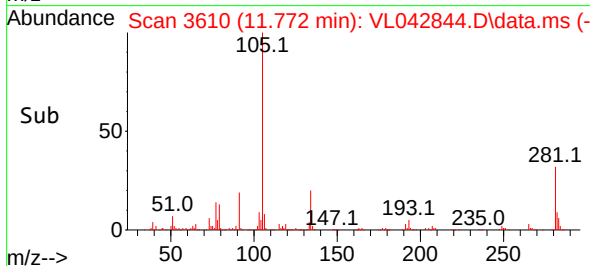
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



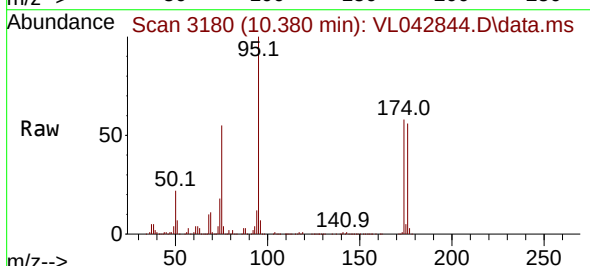
Tgt Ion:105 Resp: 96288
 Ion Ratio Lower Upper
 105 100
 134 19.7 14.9 22.3

Manual Integrations
 APPROVED

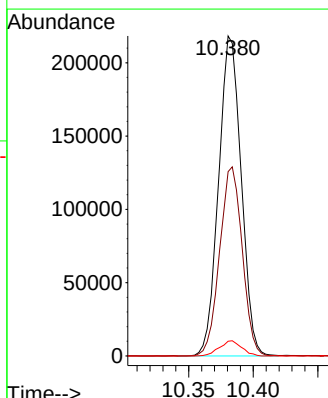
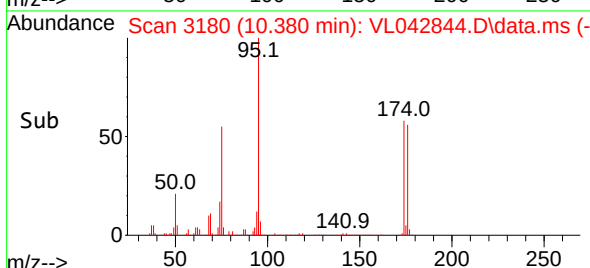
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

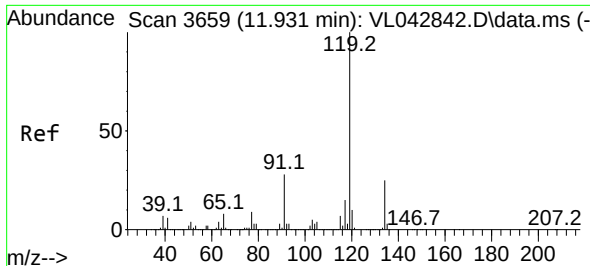


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.135 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



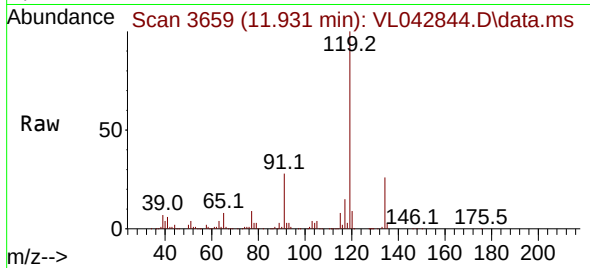
Tgt Ion: 95 Resp: 265708
 Ion Ratio Lower Upper
 95 100
 174 59.1 48.4 72.6
 175 4.7 3.8 5.8





#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

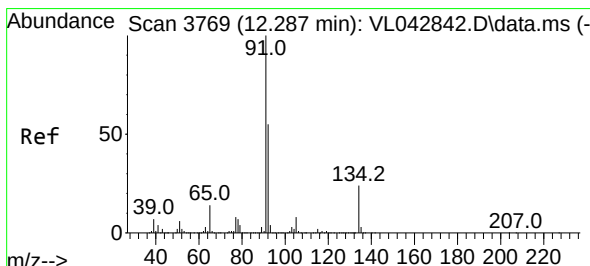
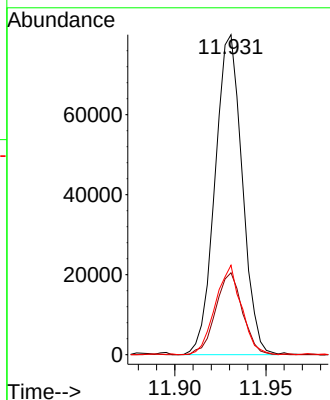
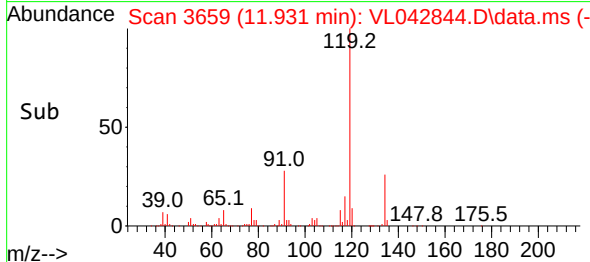
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



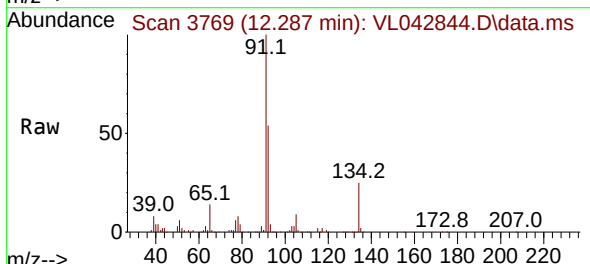
Tgt Ion:119 Resp: 82934
Ion Ratio Lower Upper
119 100
134 25.3 20.6 30.8
91 27.2 22.6 34.0

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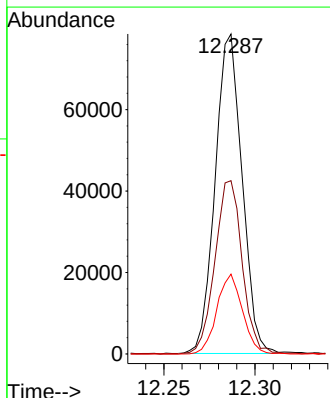
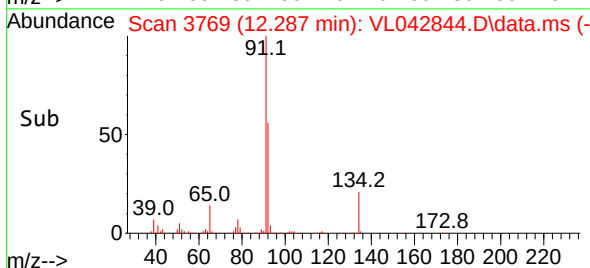
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

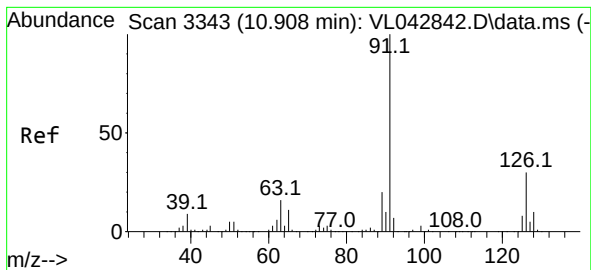


#70
n-Butylbenzene
Concen: 1.075 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



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





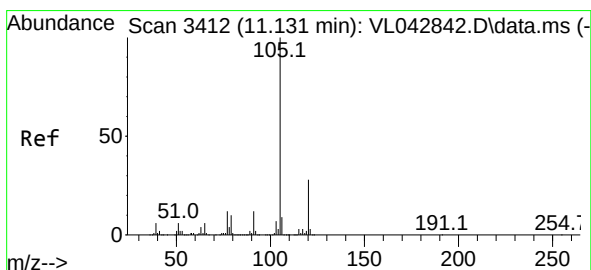
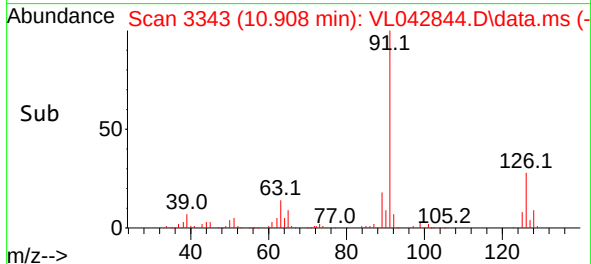
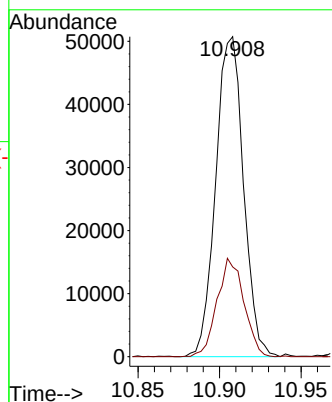
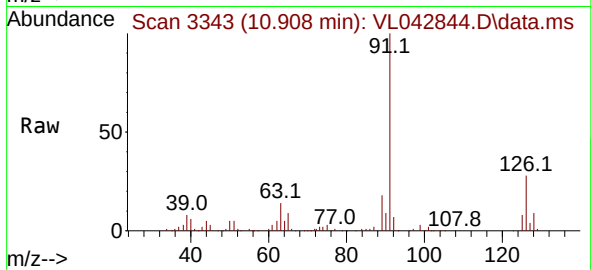
#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 60080
Ion Ratio Lower Upper
91 100
126 29.7 12.0 47.8

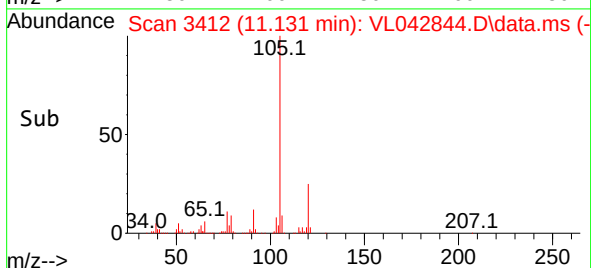
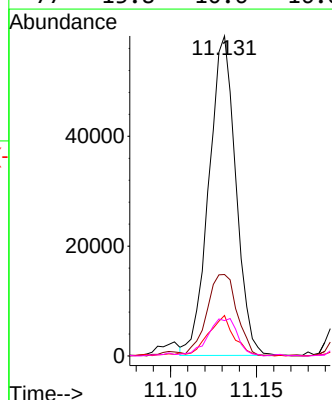
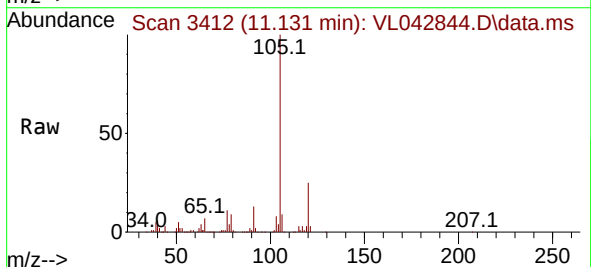
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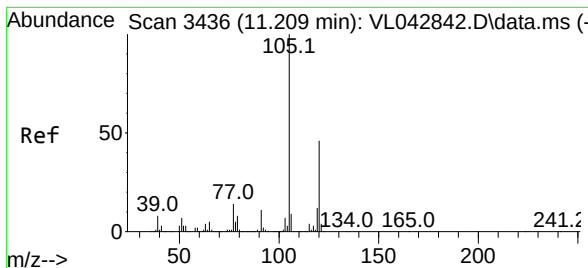
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 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

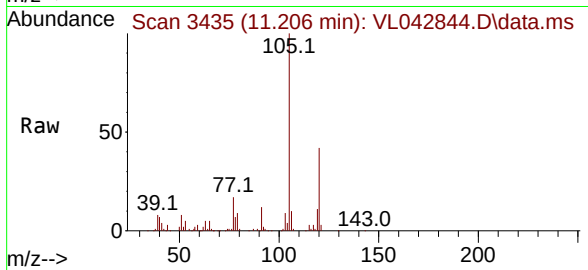
Tgt Ion:105 Resp: 63147
Ion Ratio Lower Upper
105 100
120 29.9 23.4 35.2
91 13.0 9.8 14.6
77 13.8 10.6 16.0





#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

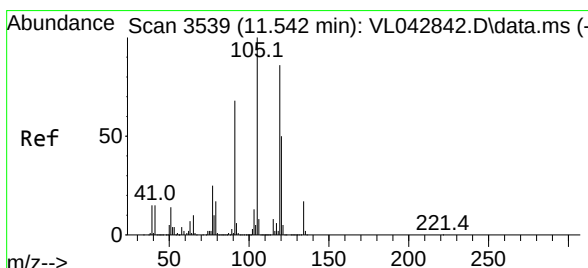
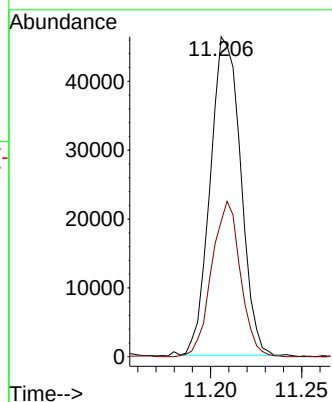
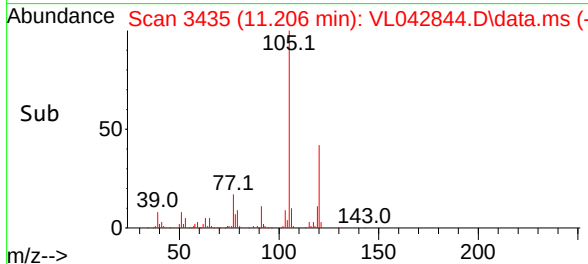
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



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

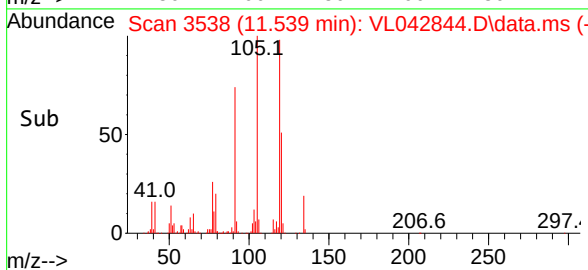
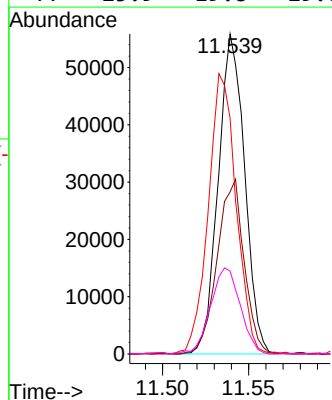
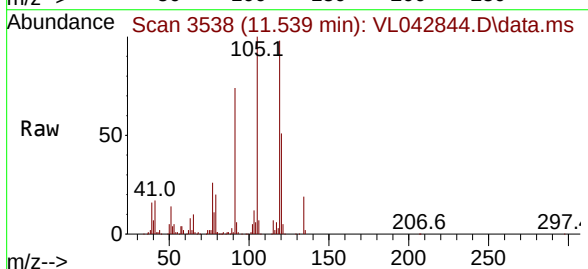
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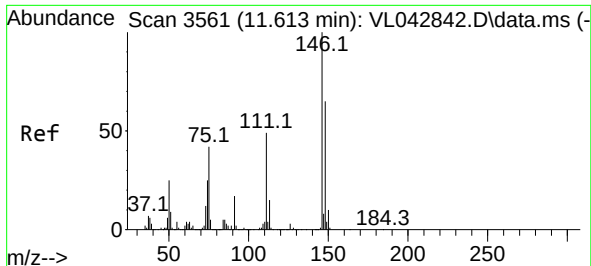
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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





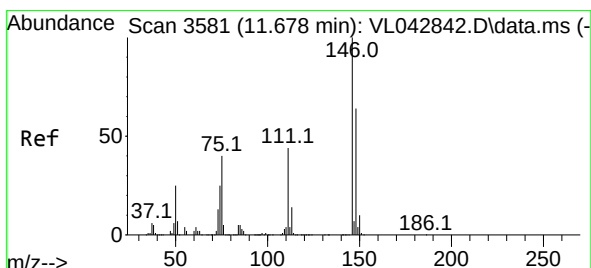
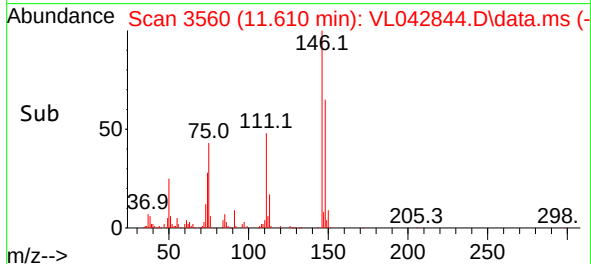
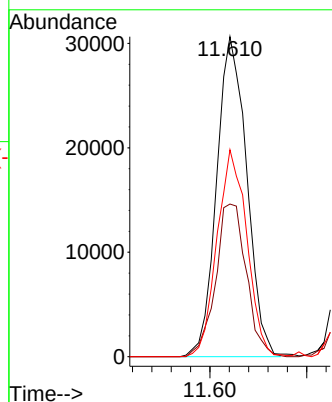
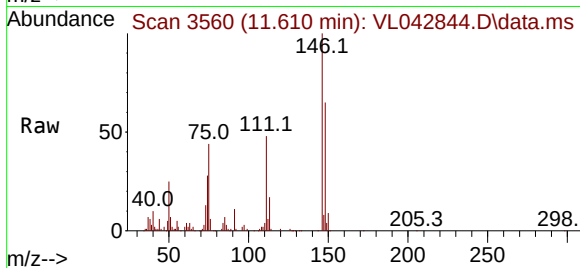
#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

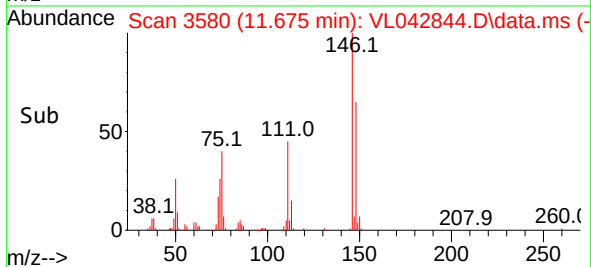
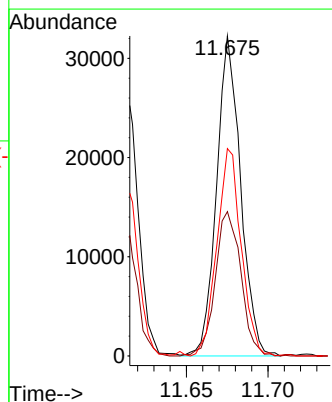
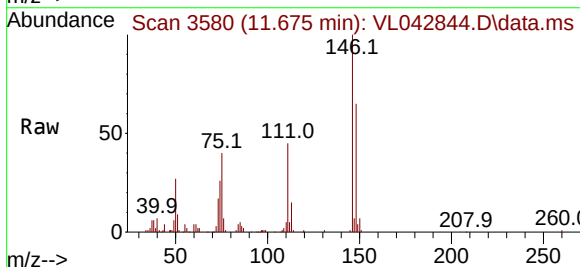
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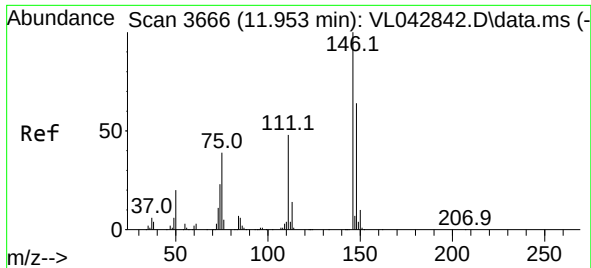
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





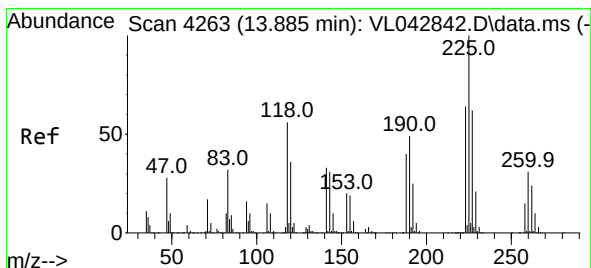
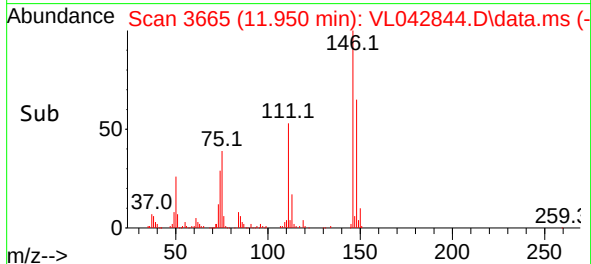
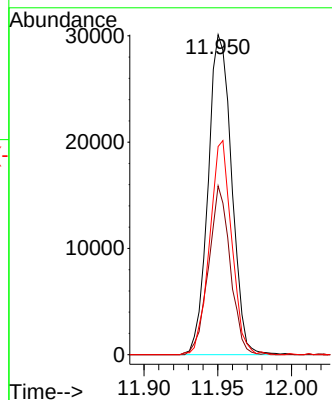
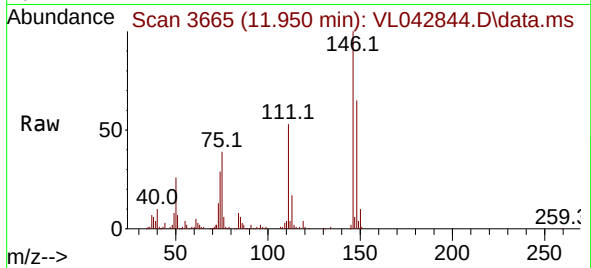
#77
1,2-Dichlorobenzene
Concen: 1.090 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

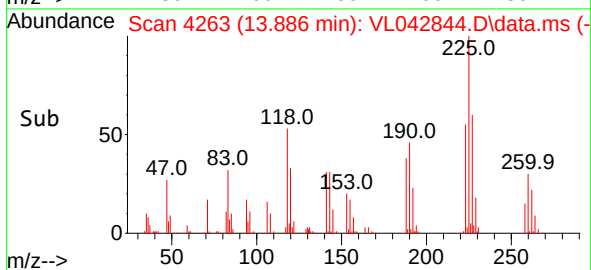
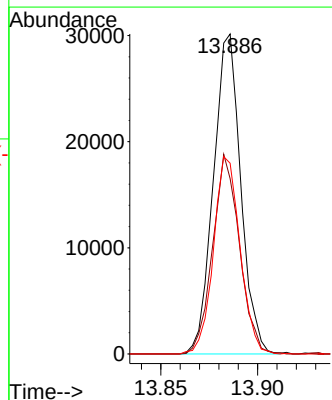
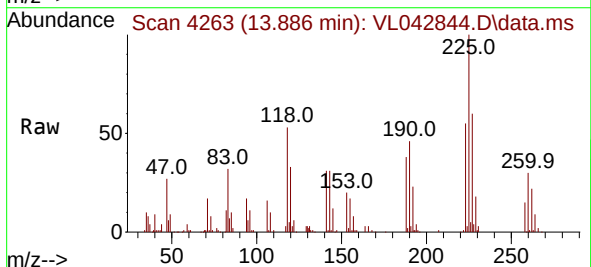
Manual Integrations
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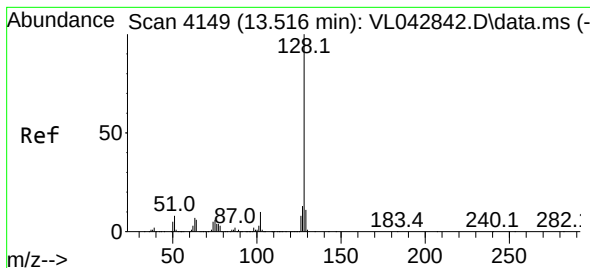
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

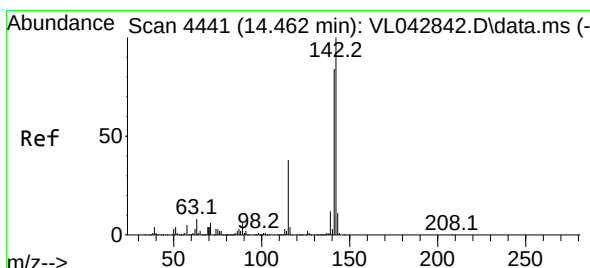
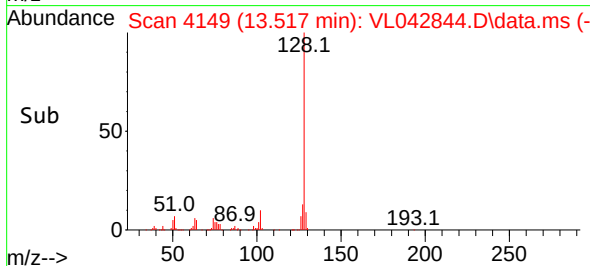
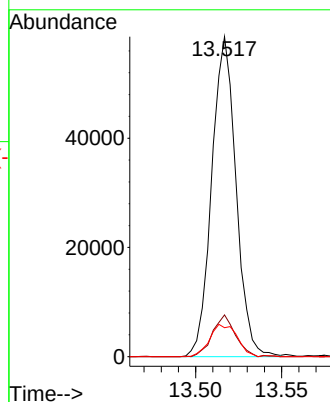
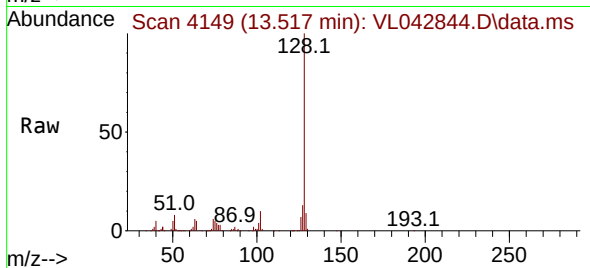
Tgt Ion:128	Resp:	57580
Ion Ratio	Lower	Upper
128	100	
127	13.1	10.6 16.0
129	9.1	8.9 13.3

Manual Integrations

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Supervised By :Mahesh Dadoda 08/18/2025



#80

Naphthalene,2-methyl-

Concen: 1.045 ppbv

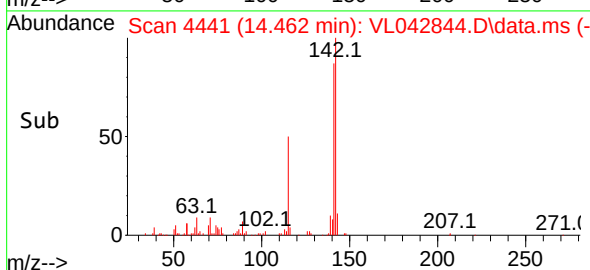
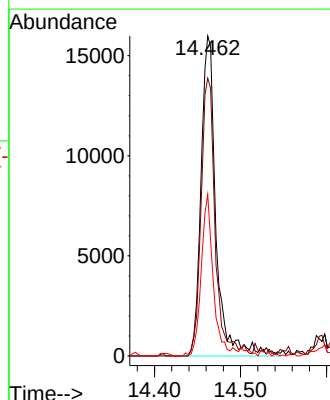
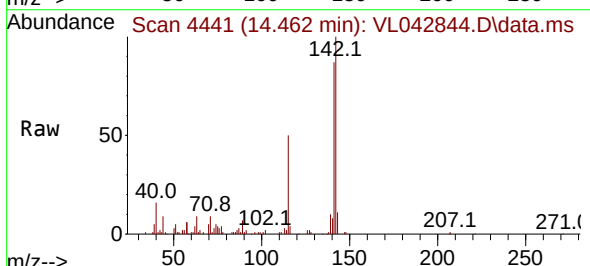
RT: 14.462 min Scan# 4441

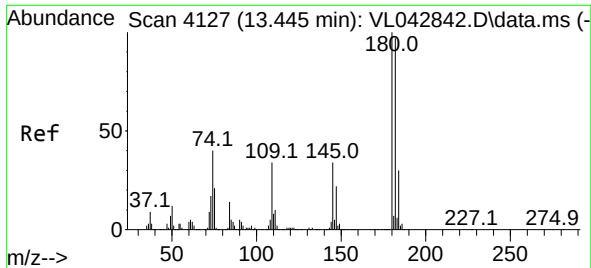
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

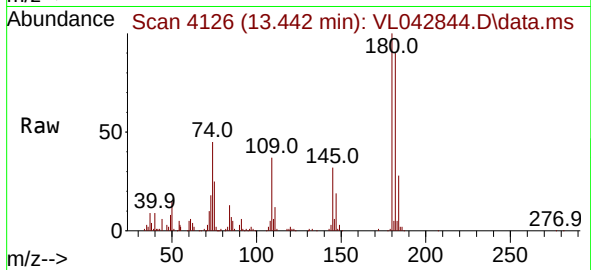
Tgt Ion:142	Resp:	19375
Ion Ratio	Lower	Upper
142	100	
141	81.6	67.0 100.6
115	43.2	30.9 46.3





#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

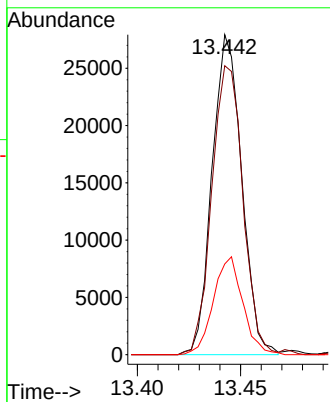
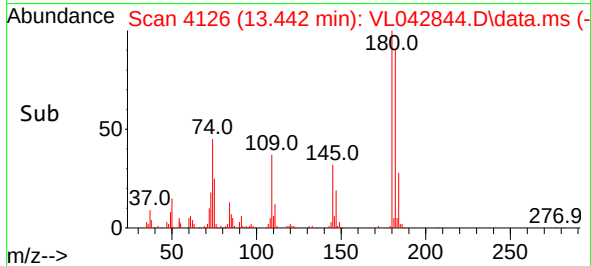
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion:180 Resp: 2786
 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

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 14 2025

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

Response via : Initial Calibration

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

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-Trichlorotrifluoro...	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

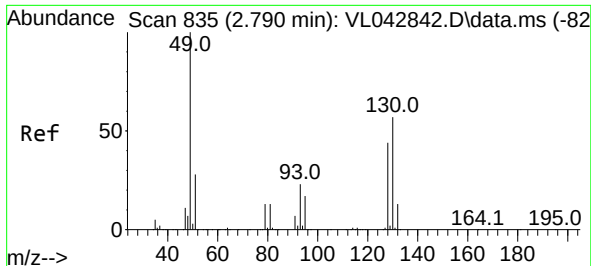
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

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

Response via : Initial Calibration

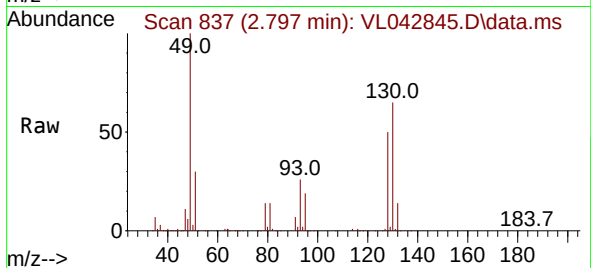
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	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

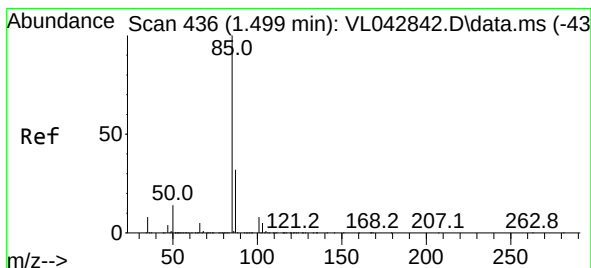
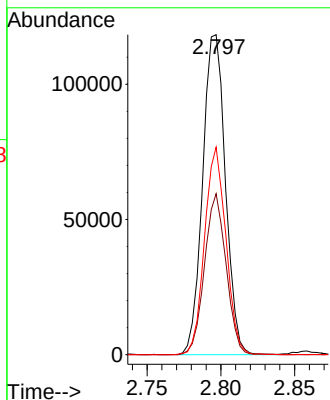
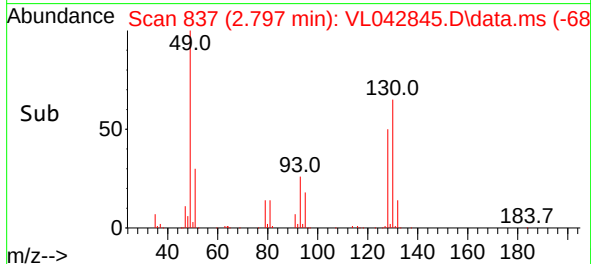
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



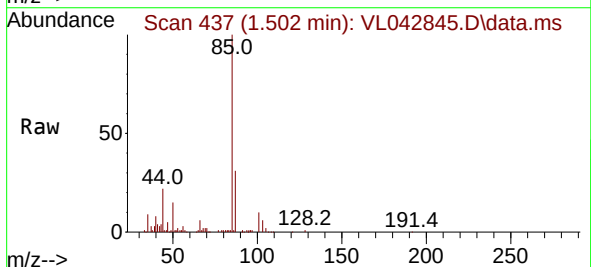
Tgt Ion: 49 Resp: 126879
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 60.9 30.6 91.6

Manual Integrations
APPROVED

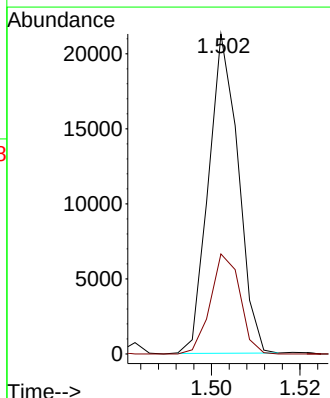
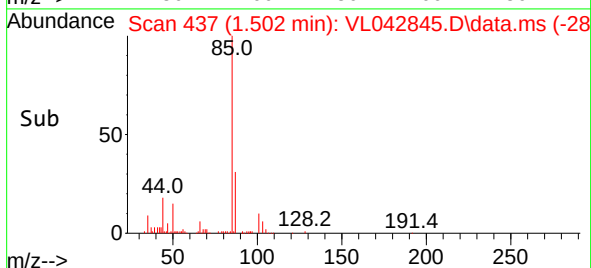
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

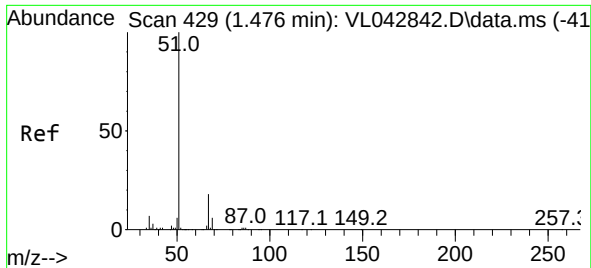


#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



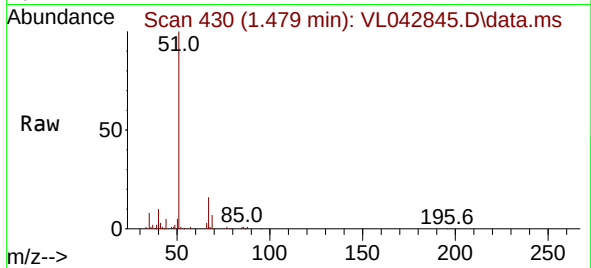
Tgt Ion: 85 Resp: 9937
Ion Ratio Lower Upper
85 100
87 31.3 25.3 37.9





#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

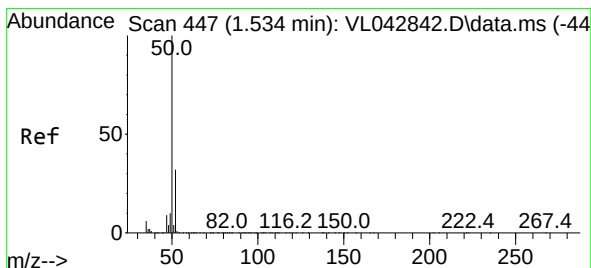
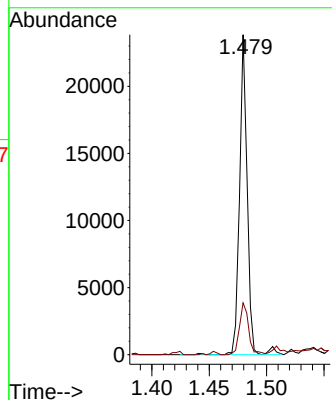
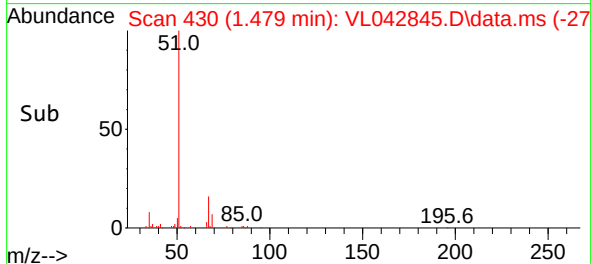
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



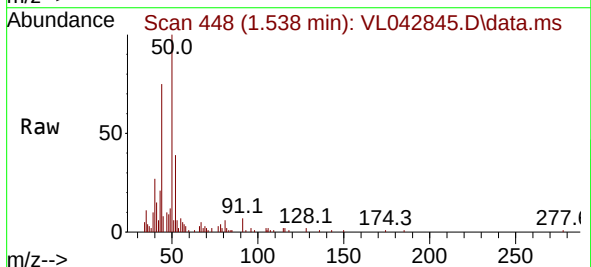
Tgt Ion: 51 Resp: 1111
Ion Ratio Lower Upper
51 100
67 20.5 14.9 22.3

Manual Integrations
APPROVED

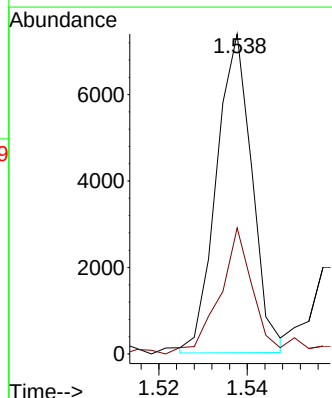
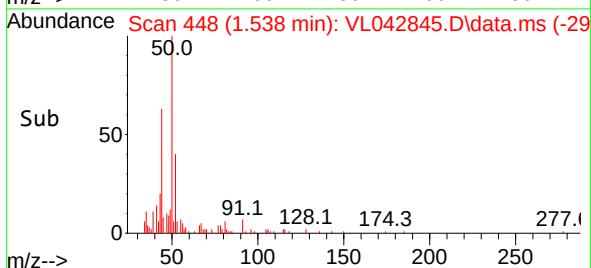
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

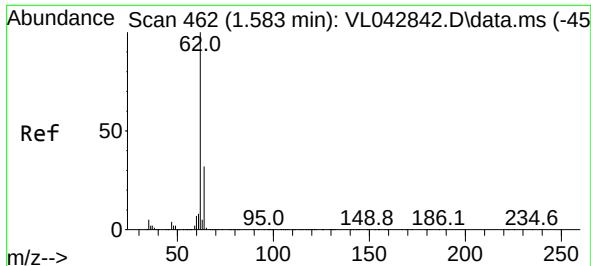


#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



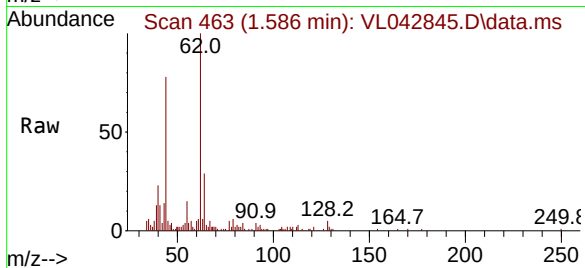
Tgt Ion: 50 Resp: 4112
Ion Ratio Lower Upper
50 100
52 38.2 25.9 38.9





#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

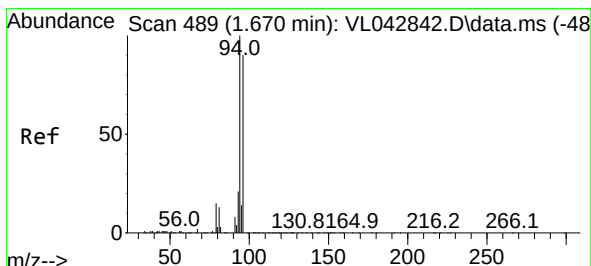
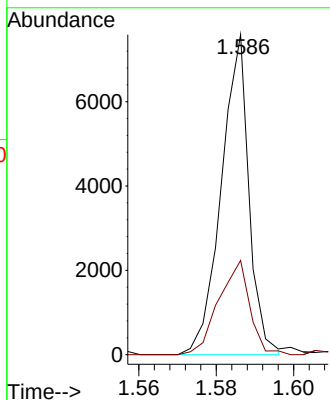
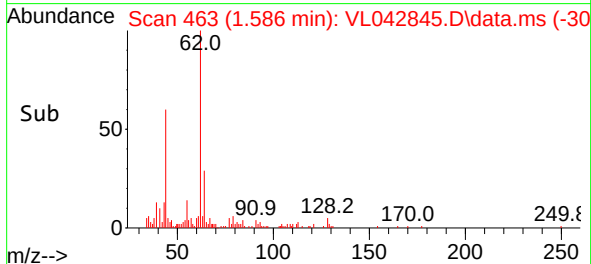
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



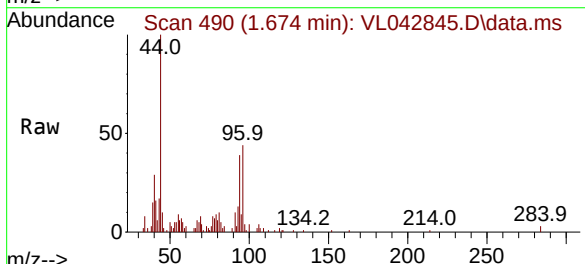
Tgt Ion: 62 Resp: 3762
 Ion Ratio Lower Upper
 62 100
 64 28.3 25.4 38.2

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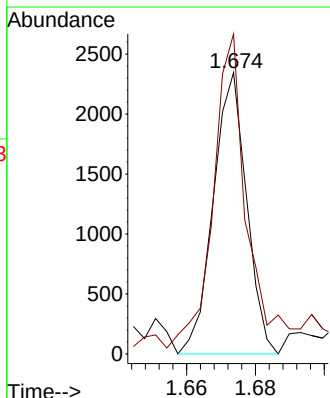
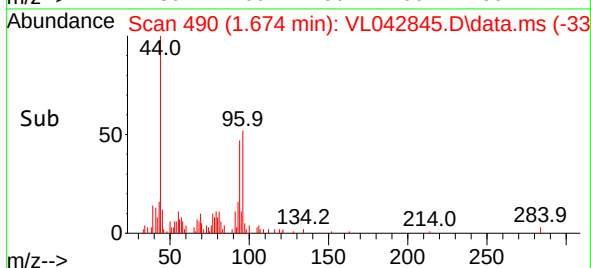
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

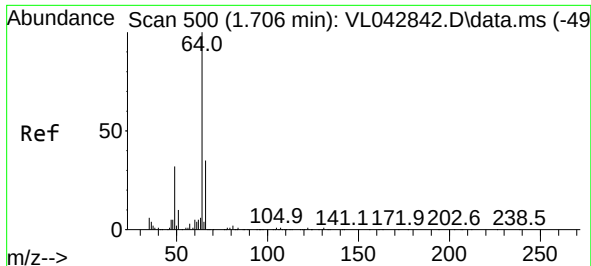


#6
 Bromomethane
 Concen: 0.533 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



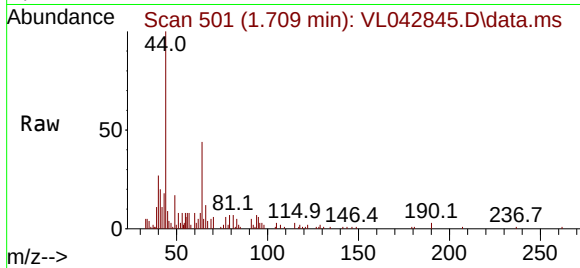
Tgt Ion: 94 Resp: 1576
 Ion Ratio Lower Upper
 94 100
 96 106.9 72.1 108.1





#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

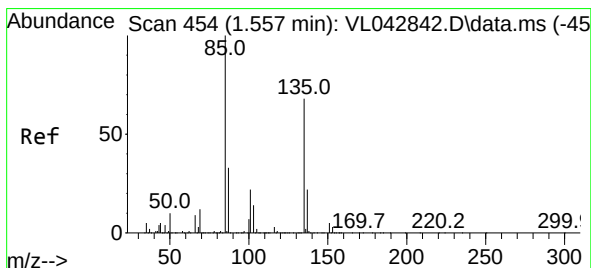
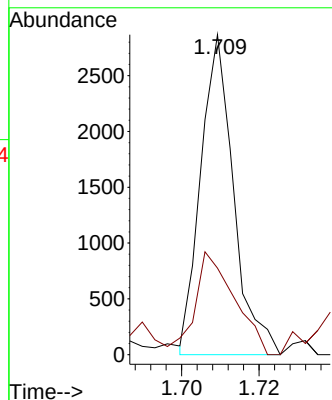
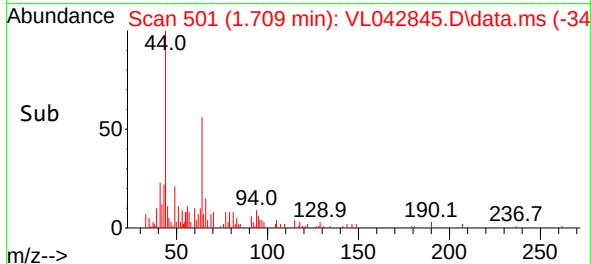
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



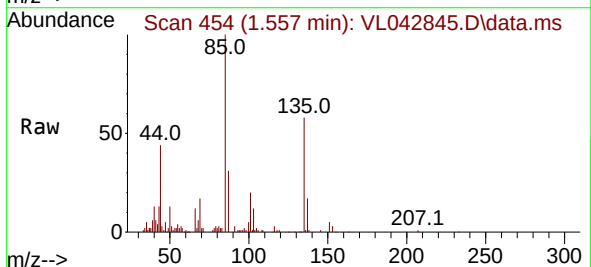
Tgt Ion: 64 Resp: 1690
Ion Ratio Lower Upper
64 100
66 27.0 28.6 42.8

Manual Integrations
APPROVED

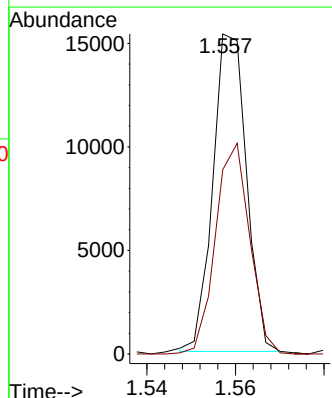
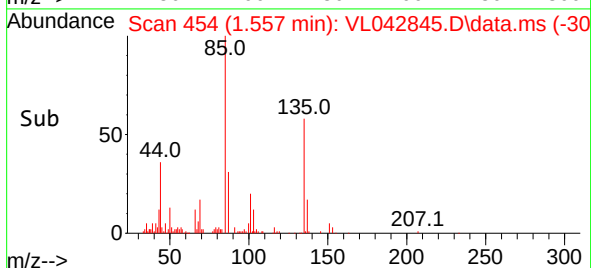
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

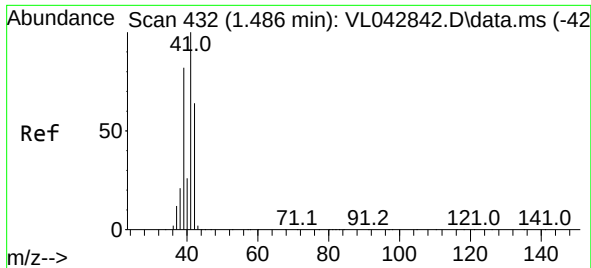


#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



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: 522

Ion Ratio Lower Upper

41 100

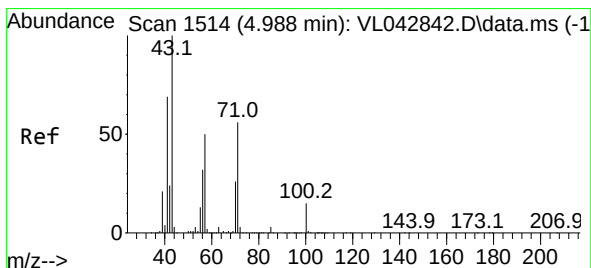
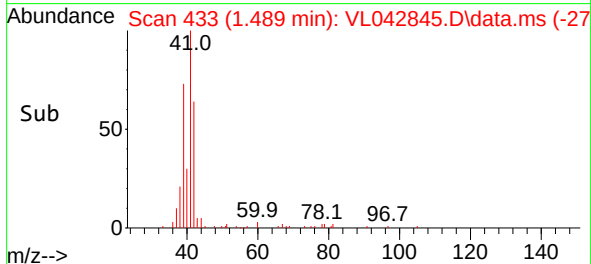
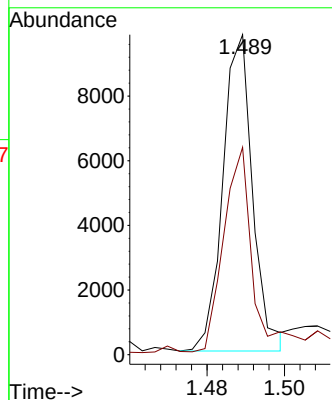
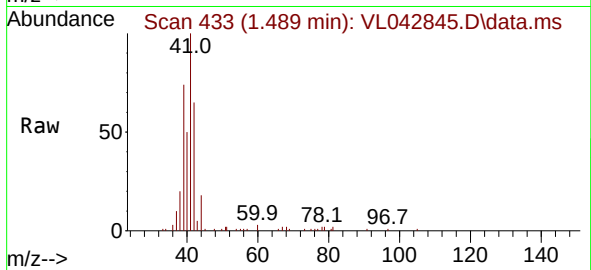
42 73.7 53.0 79.4

Manual Integrations

APPROVED

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

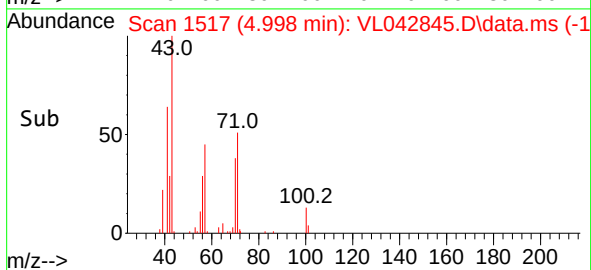
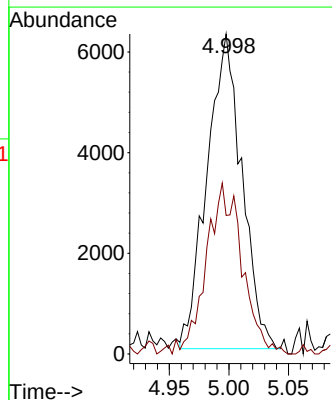
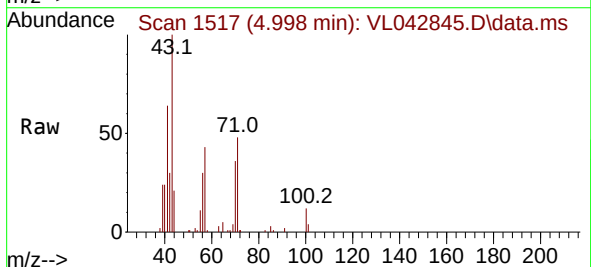
Acq: 13 Aug 2025 10:17

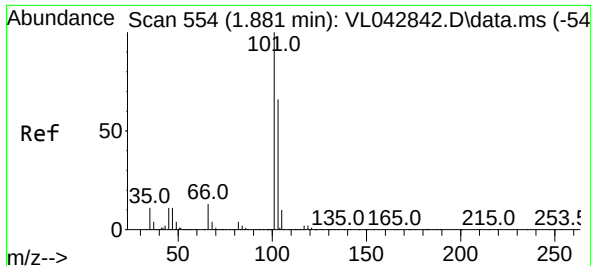
Tgt Ion: 43 Resp: 12747

Ion Ratio Lower Upper

43 100

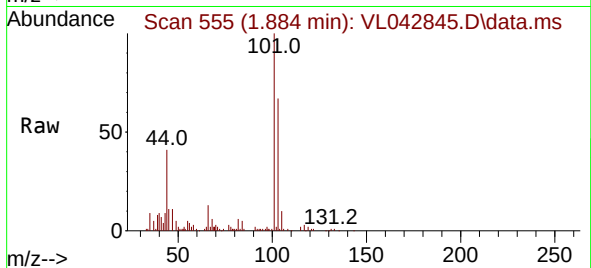
57 56.9 41.4 62.0





#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

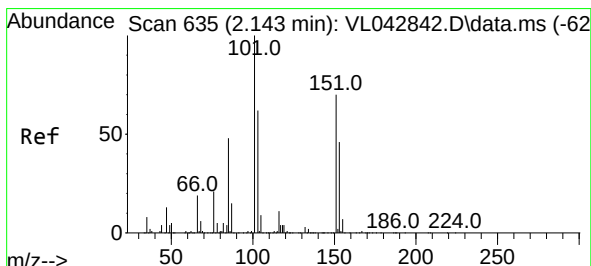
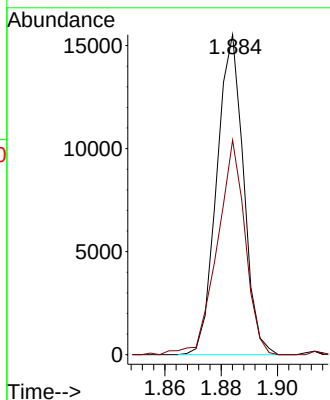
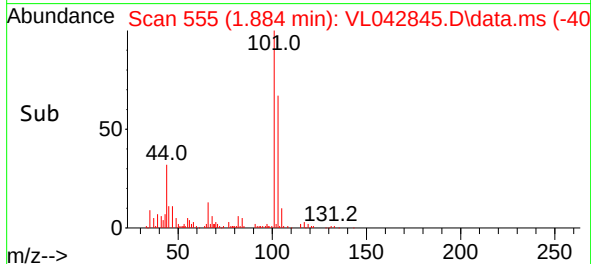
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



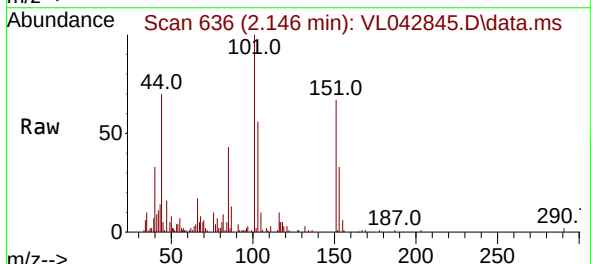
Tgt Ion:101 Resp: 10238
 Ion Ratio Lower Upper
 101 100
 103 67.0 52.5 78.7

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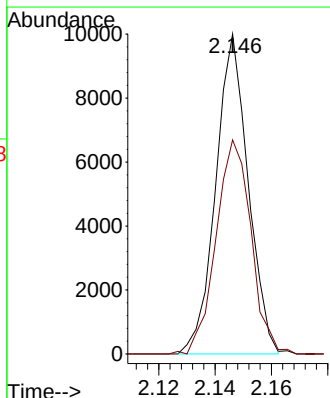
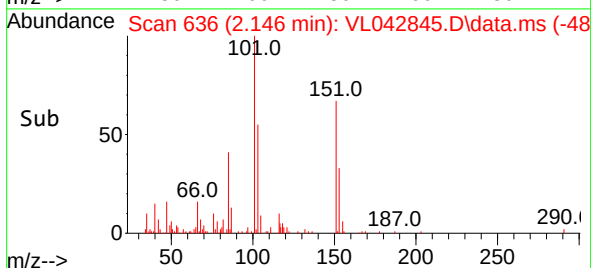
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

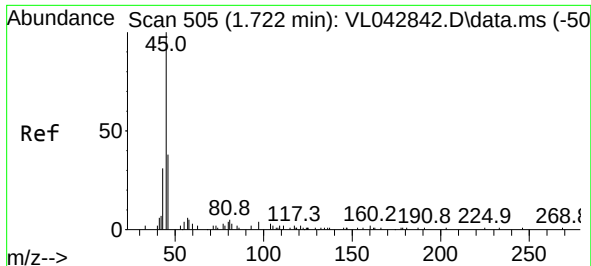


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.546 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



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





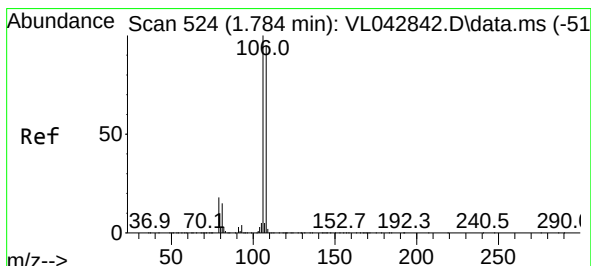
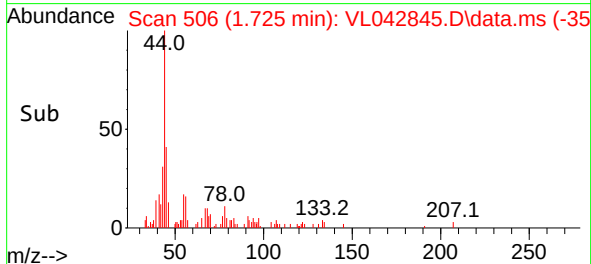
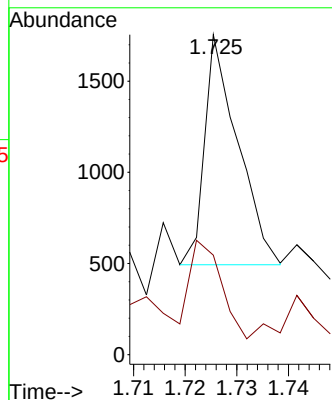
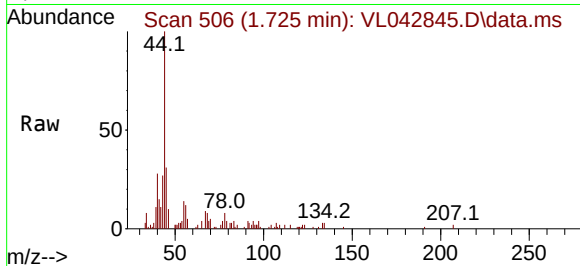
#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

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

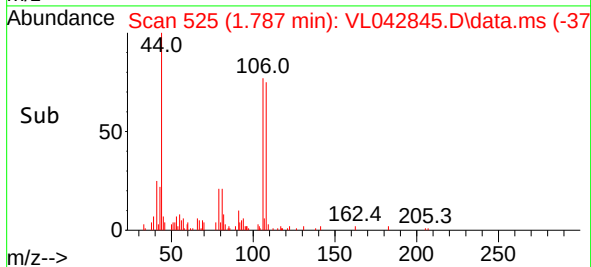
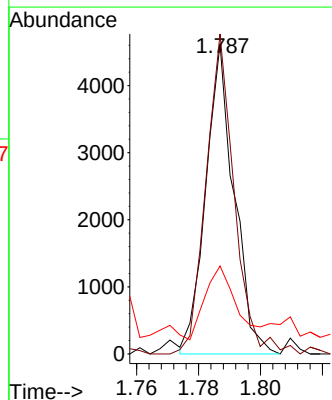
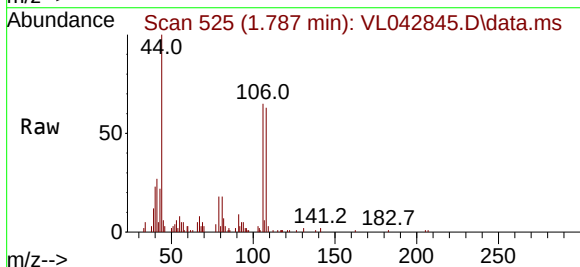
Manual Integrations
APPROVED

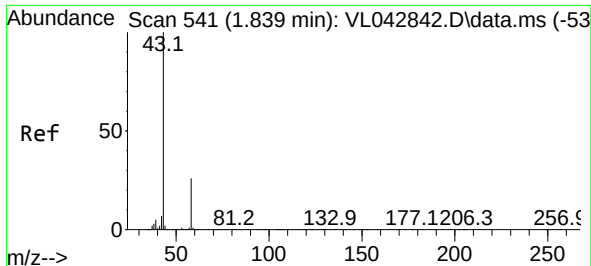
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

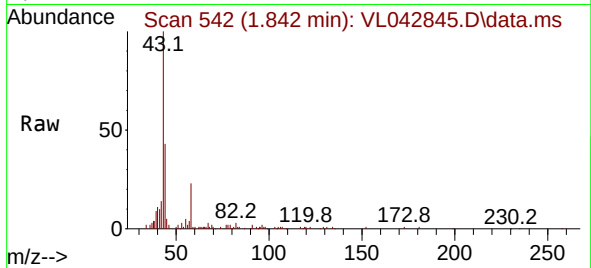
Tgt Ion:108 Resp: 2932
Ion Ratio Lower Upper
108 100
106 106.1 85.1 127.7
79 62.6 16.3 24.5





#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

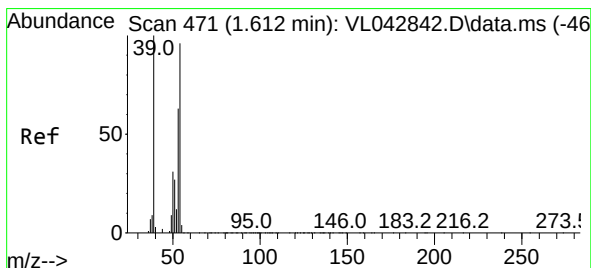
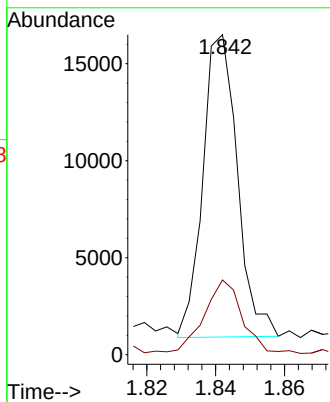
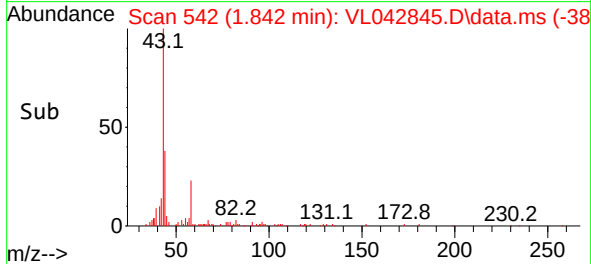
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



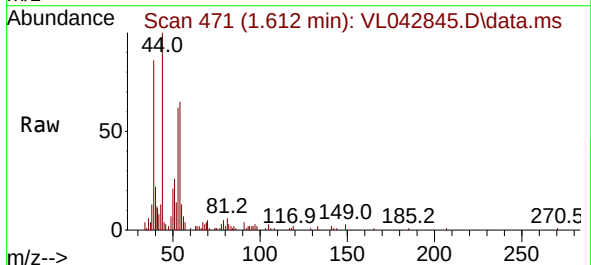
Tgt Ion: 43 Resp: 10830
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6

Manual Integrations
APPROVED

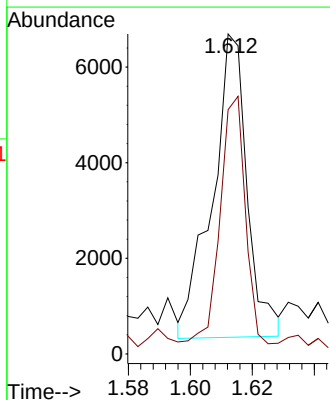
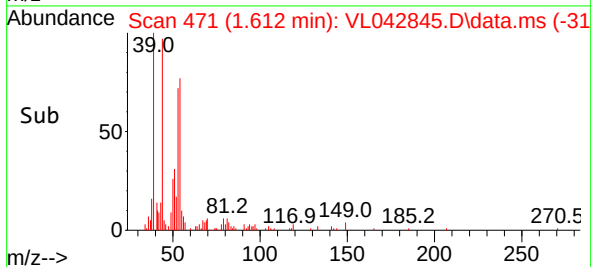
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

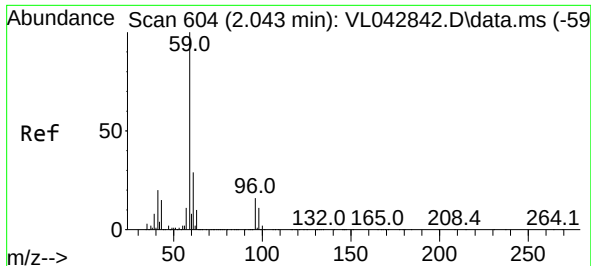


#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



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





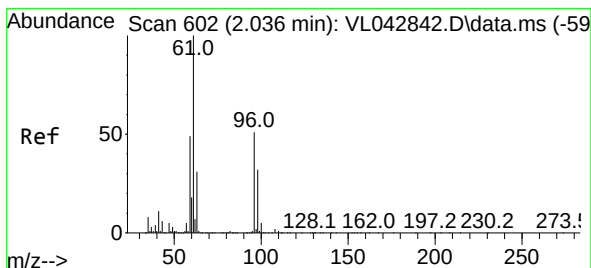
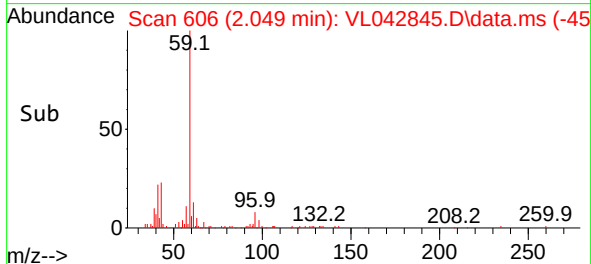
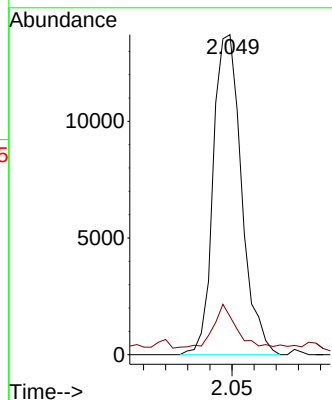
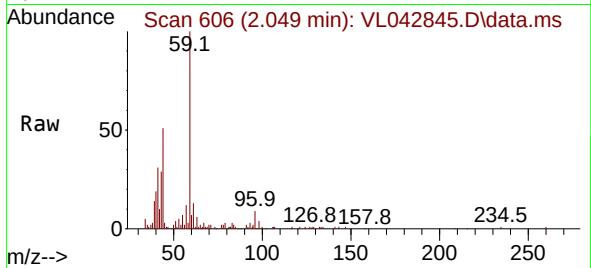
#17
tert-Butyl alcohol
Concen: 0.612 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

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

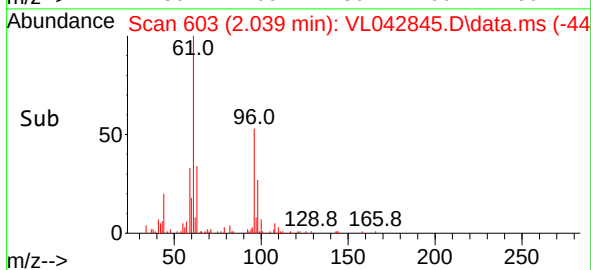
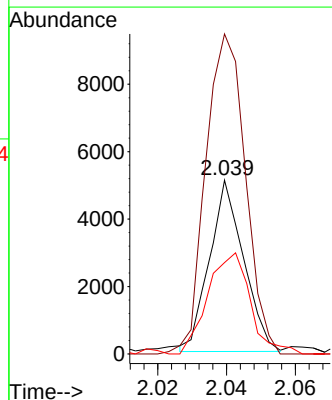
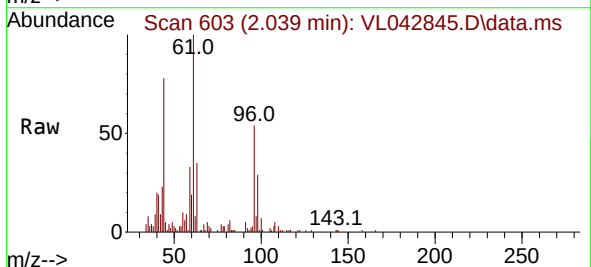
Manual Integrations
APPROVED

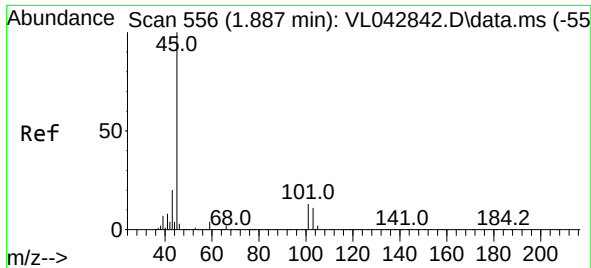
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 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





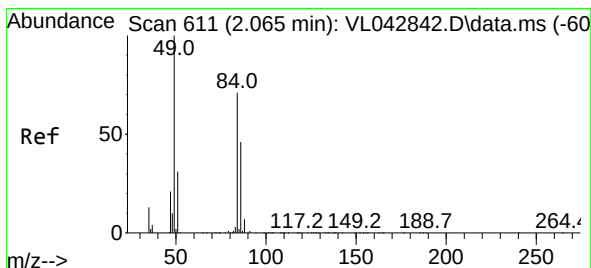
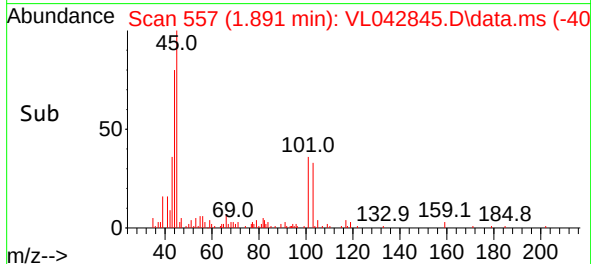
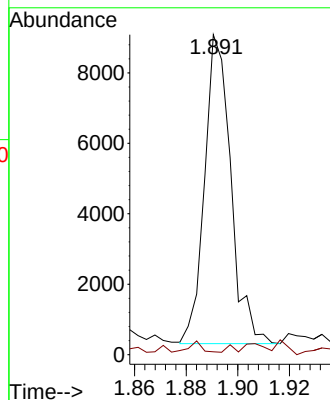
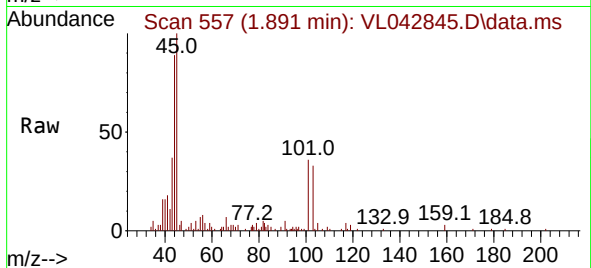
#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 6194
Ion Ratio Lower Upper
45 100
58 13.3 32.7 49.13

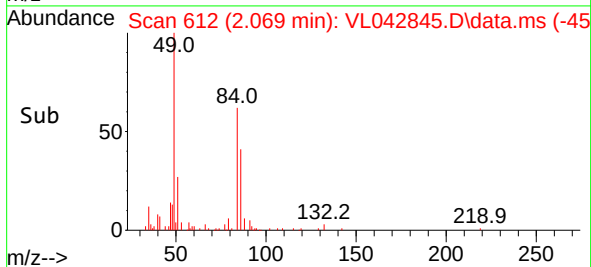
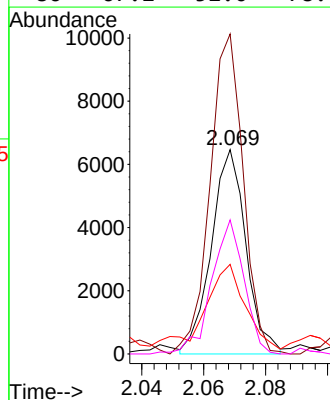
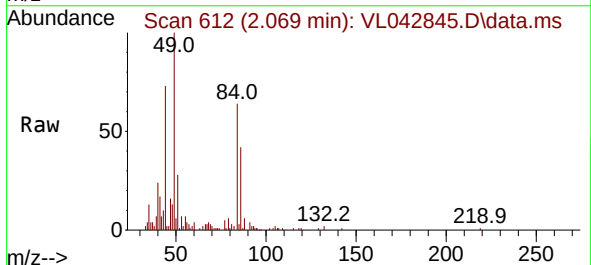
Manual Integrations
APPROVED

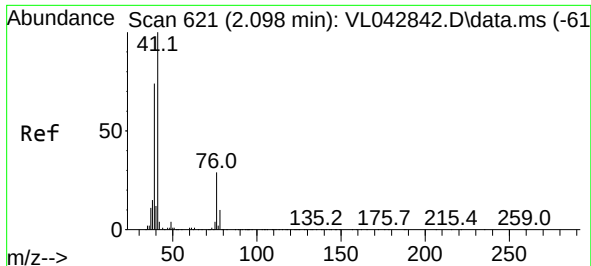
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

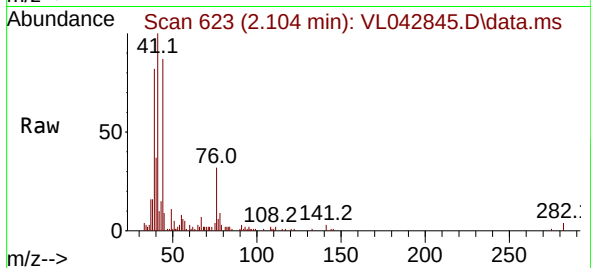
Tgt Ion: 84 Resp: 5025
Ion Ratio Lower Upper
84 100
49 159.3 112.3 168.5
51 42.5 36.0 54.0
86 67.2 52.0 78.0





#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

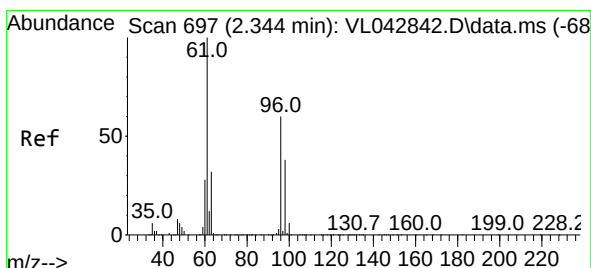
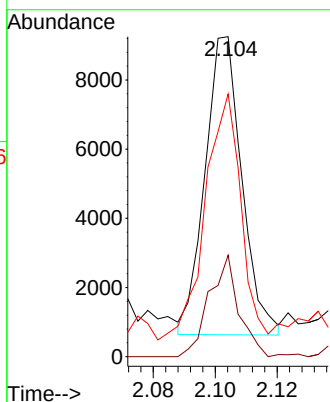
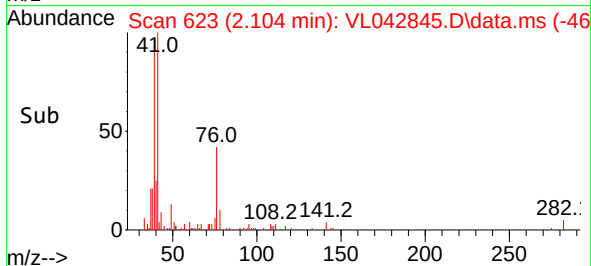
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



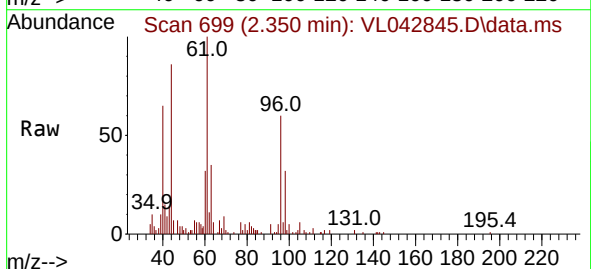
Tgt Ion: 41 Resp: 7120
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.9 35.9
 39 98.9 57.8 86.6

Manual Integrations
 APPROVED

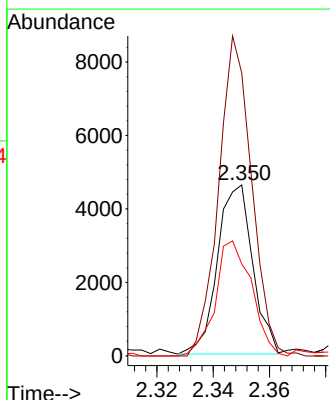
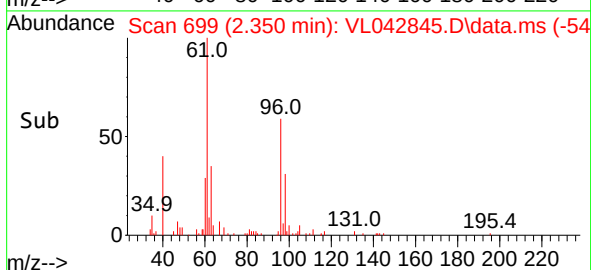
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

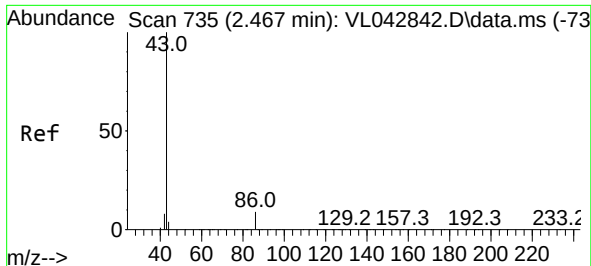


#22
 trans-1,2-Dichloroethene
 Concen: 0.556 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



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 :

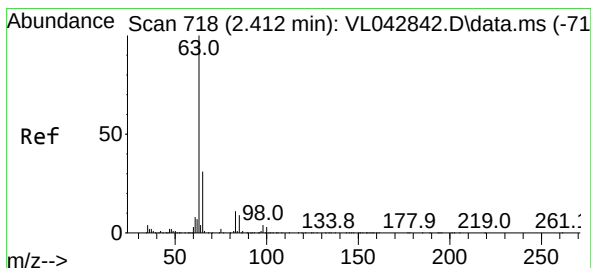
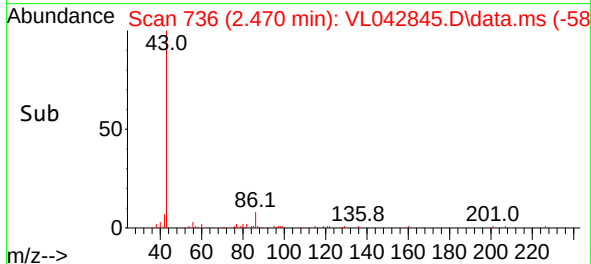
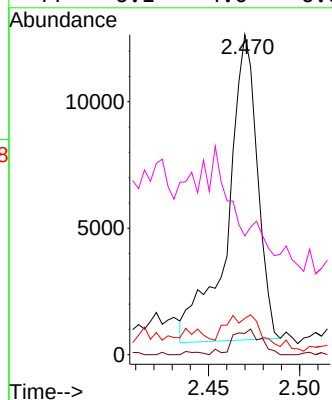
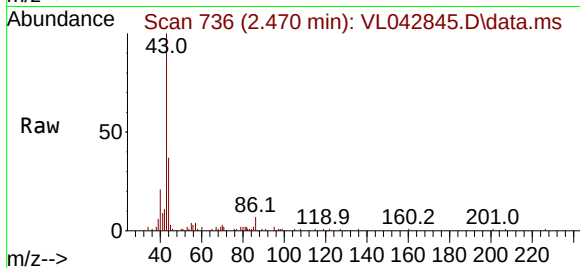
VSTDIC0.5

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

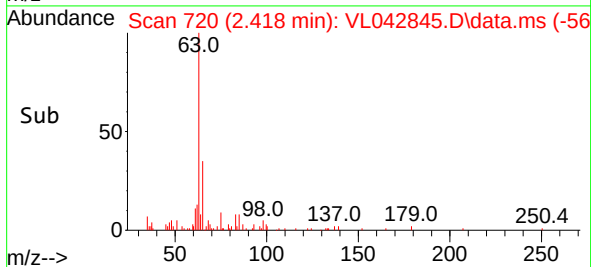
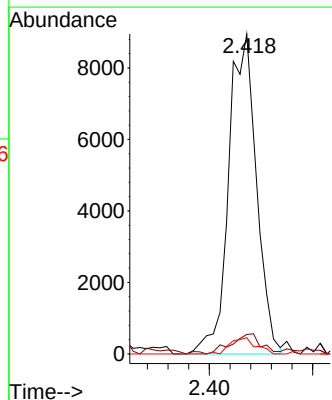
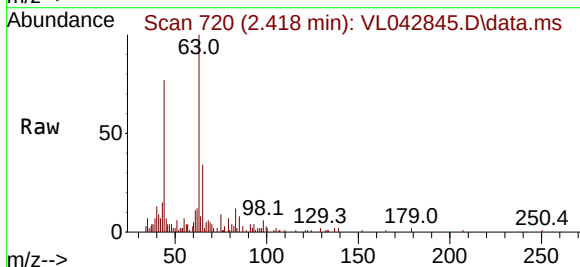
APPROVED

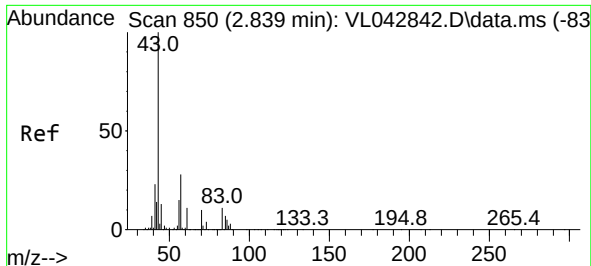
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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#





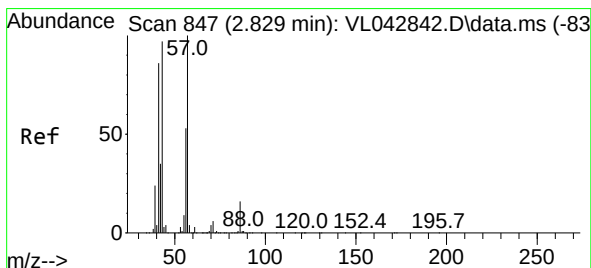
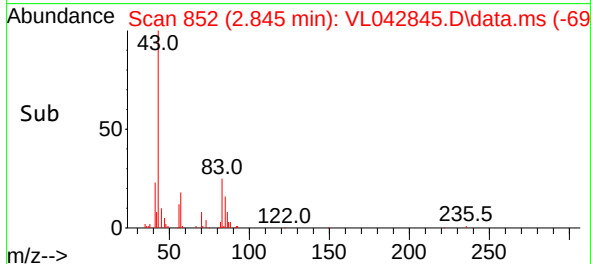
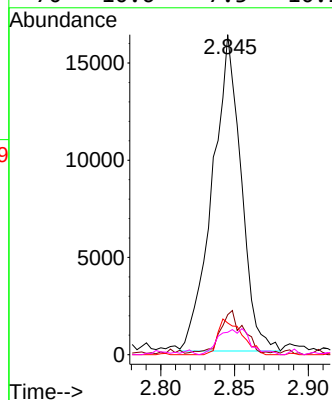
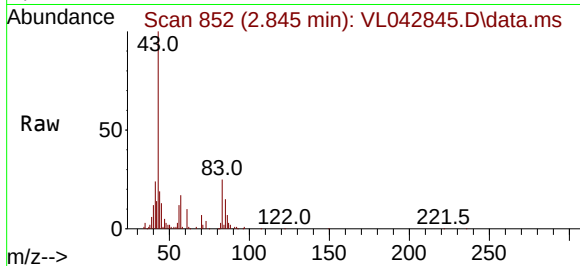
#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 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

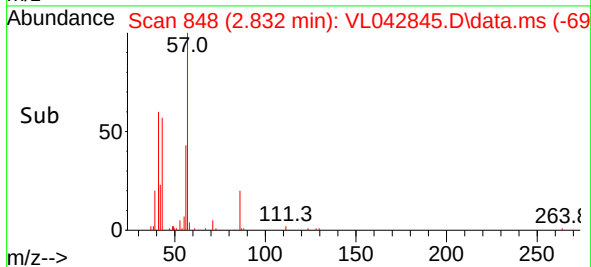
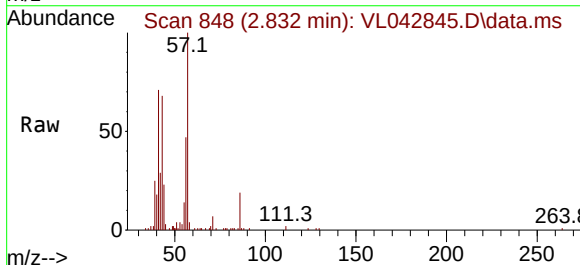
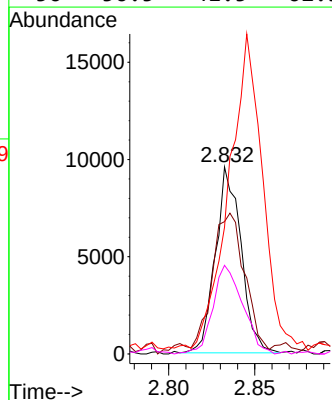
Manual Integrations
APPROVED

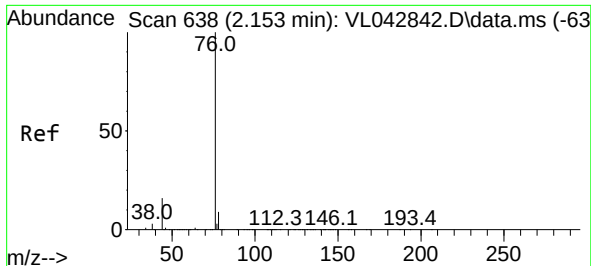
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

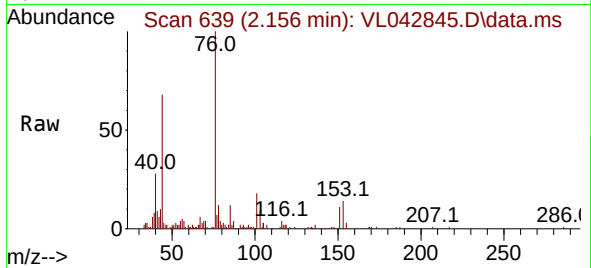
Tgt Ion: 57 Resp: 9879
Ion Ratio Lower Upper
57 100
41 100.6 68.6 103.0
43 236.9 168.5 252.7
56 56.5 41.5 62.3





#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

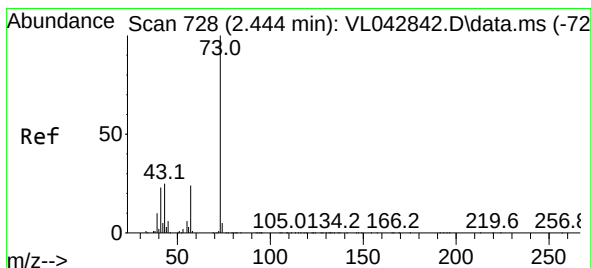
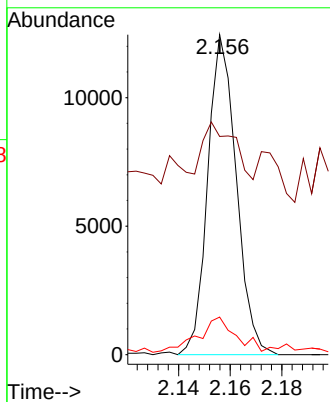
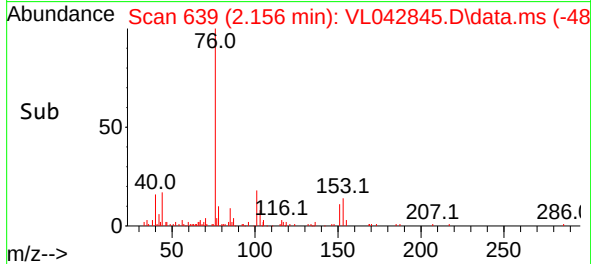
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



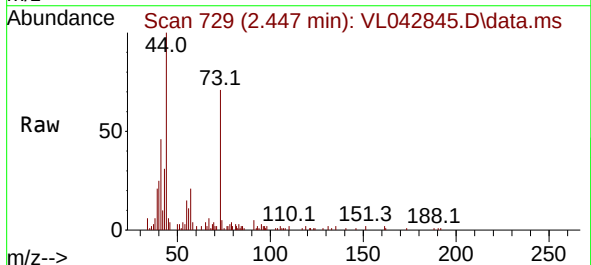
Tgt Ion: 76 Resp: 9539
Ion Ratio Lower Upper
76 100
44 136.8 15.9 23.9
78 22.2 9.5 14.3

Manual Integrations
APPROVED

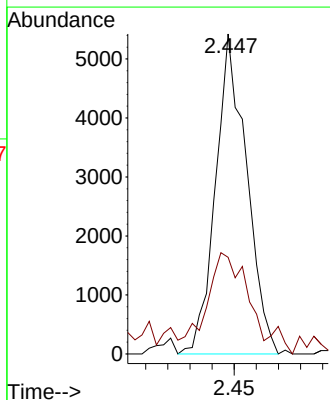
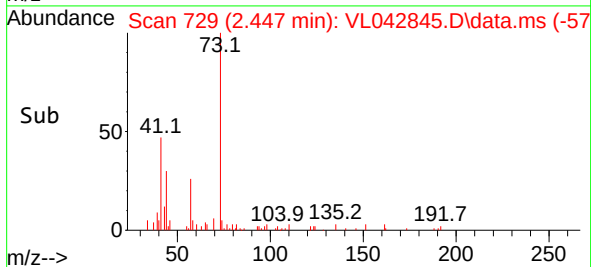
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

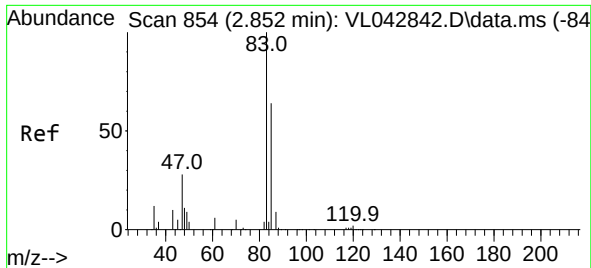


#28
Methyl tert-Butyl Ether
Concen: 0.553 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



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





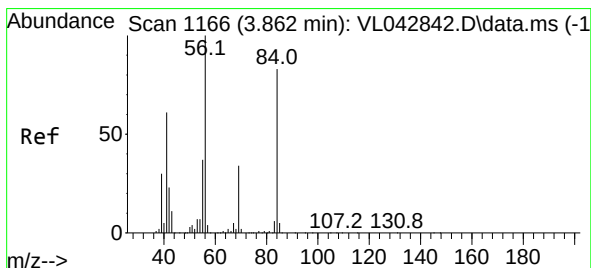
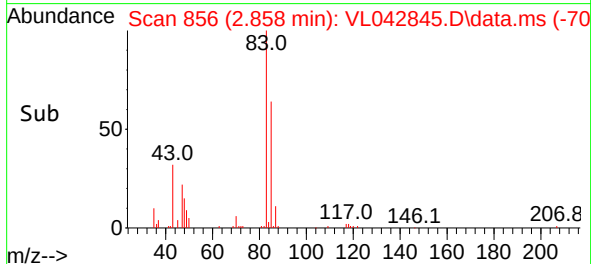
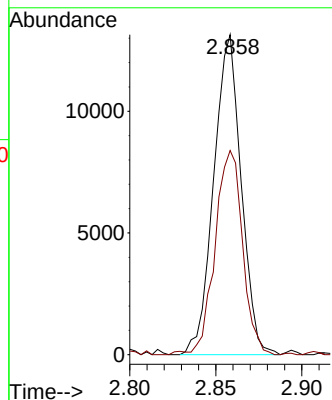
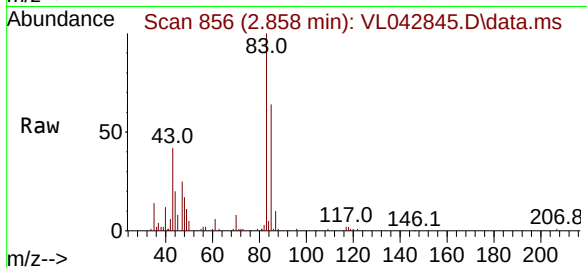
#29
Chloroform
Concen: 0.545 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

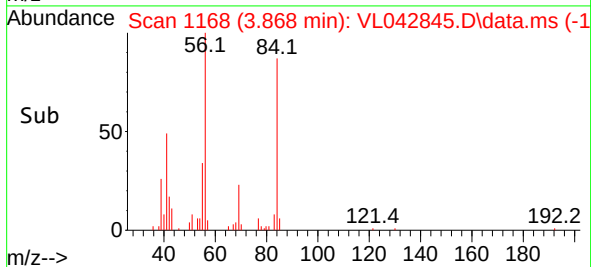
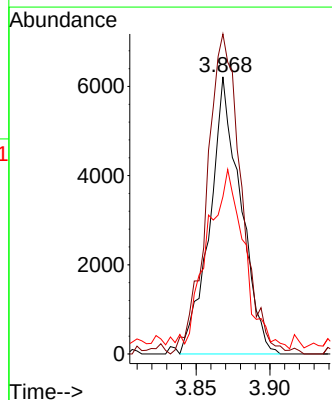
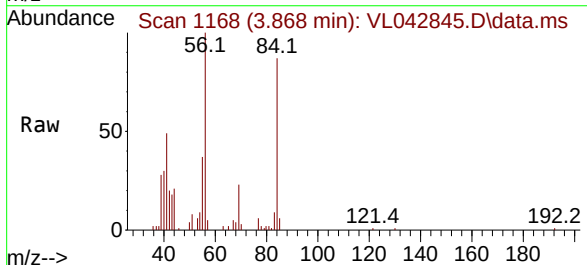
Manual Integrations
APPROVED

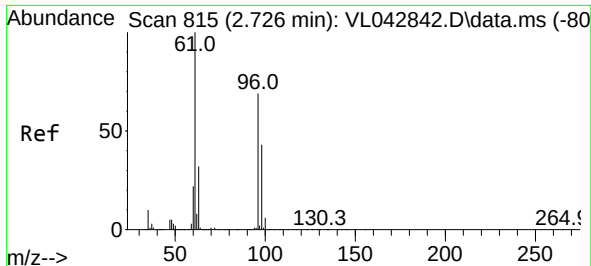
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

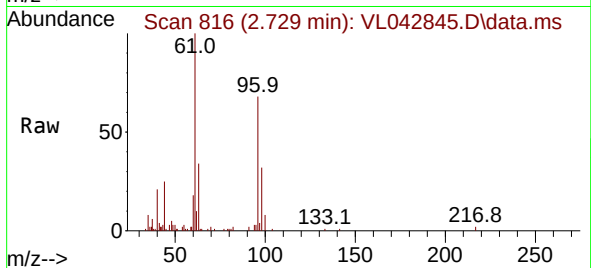
Tgt Ion: 84 Resp: 9037
Ion Ratio Lower Upper
84 100
56 131.1 98.8 148.2
41 80.1 61.3 91.9





#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

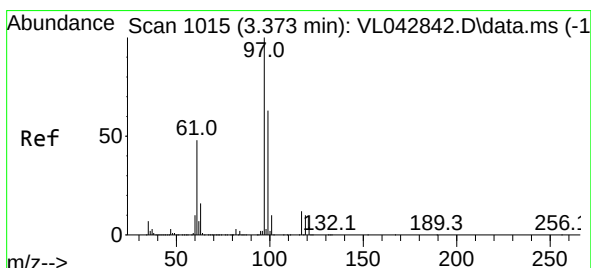
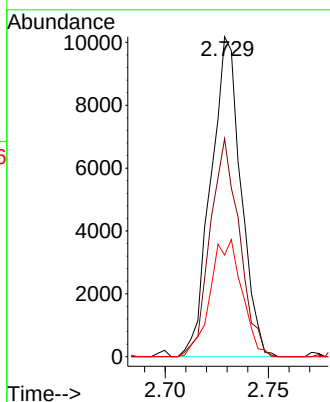
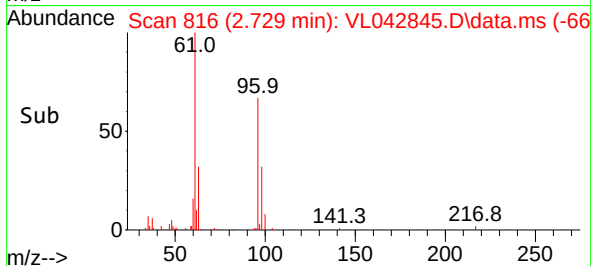
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



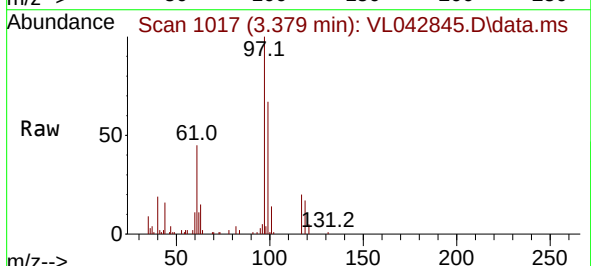
Tgt Ion: 61 Resp: 10308
 Ion Ratio Lower Upper
 61 100
 96 61.7 55.0 82.6
 98 28.7 34.3 51.5

Manual Integrations
 APPROVED

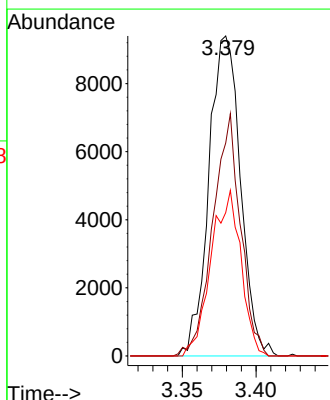
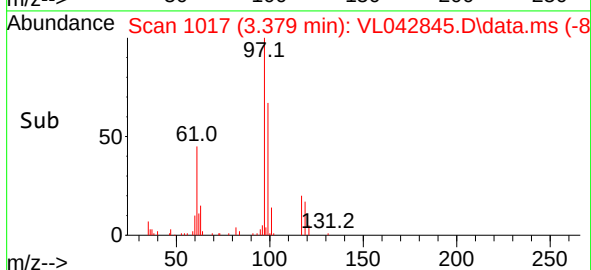
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

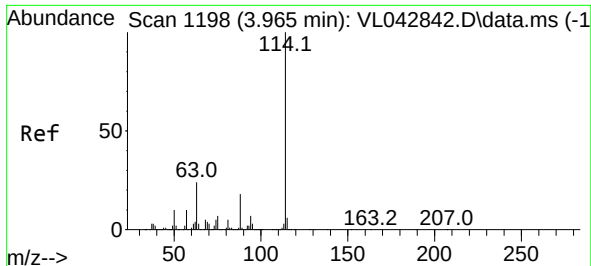


#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.007 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



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 :

VSTDIC0.5

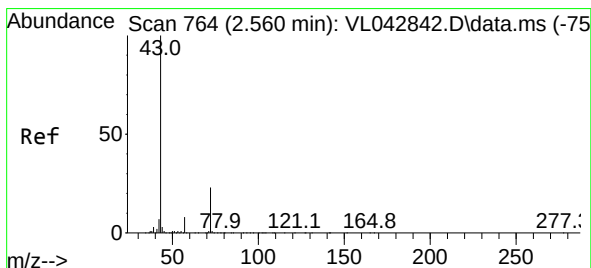
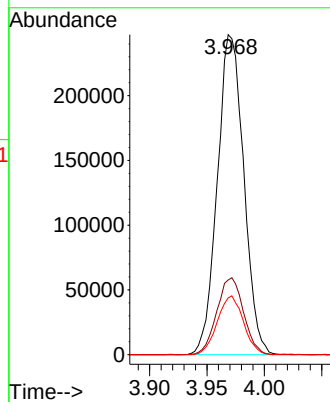
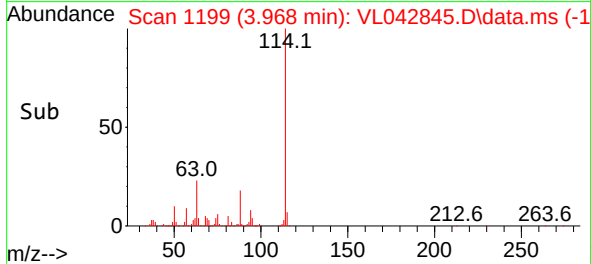
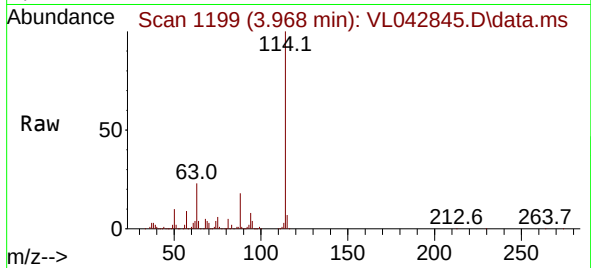
Tgt Ion:	114	Resp:	396264
Ion Ratio	Lower	Upper	
114	100		
63	24.3	19.7	29.5
88	18.1	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 0.558 ppbv

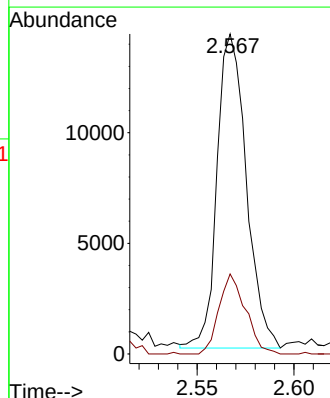
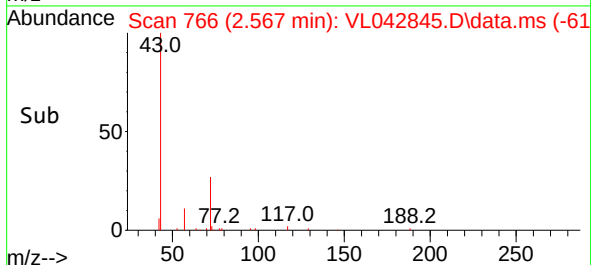
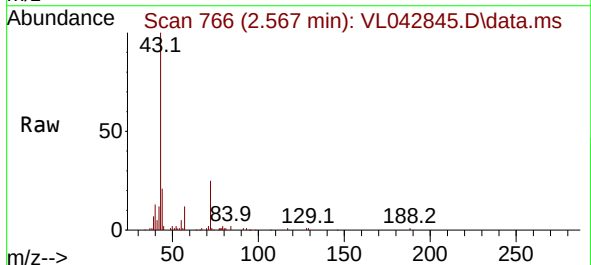
RT: 2.567 min Scan# 766

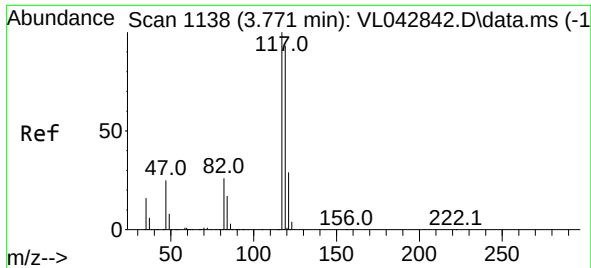
Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

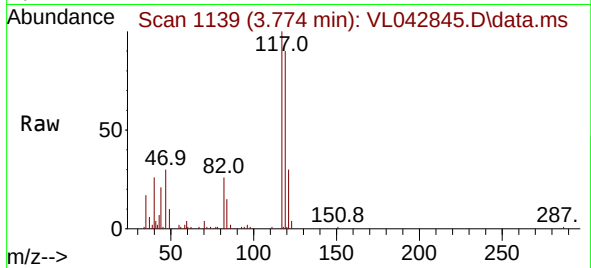
Tgt Ion:	43	Resp:	14923
Ion Ratio	Lower	Upper	
43	100		
72	23.3	18.6	28.0





#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

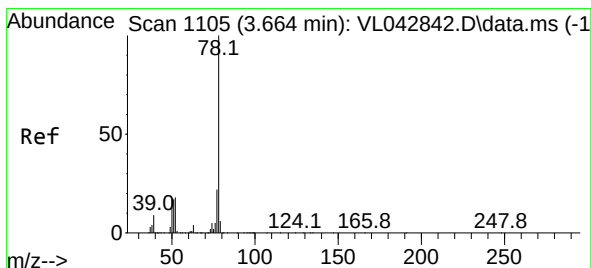
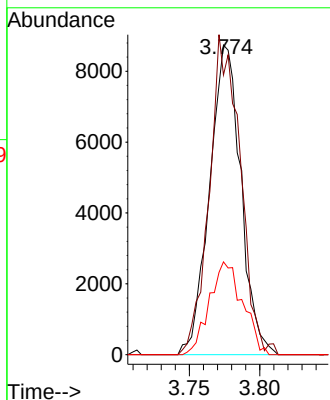
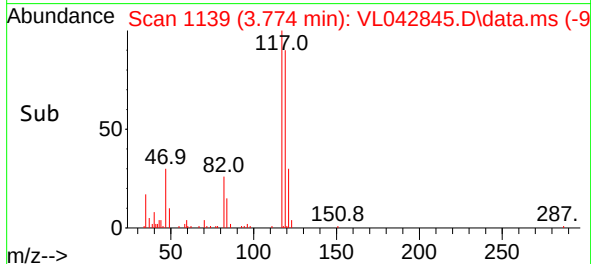
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



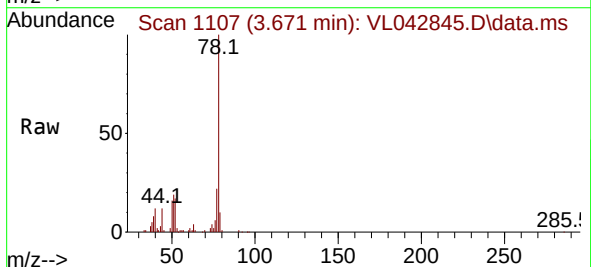
Tgt Ion: 117 Resp: 1350
Ion Ratio Lower Upper
117 100
119 90.3 74.7 112.1
121 30.0 23.2 34.8

Manual Integrations
APPROVED

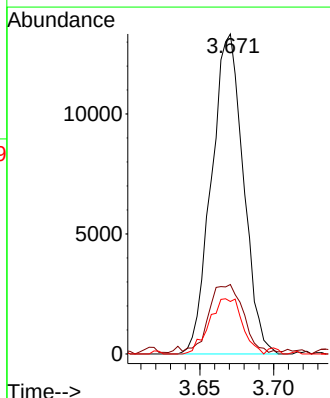
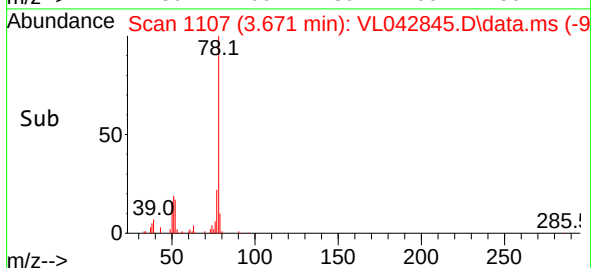
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

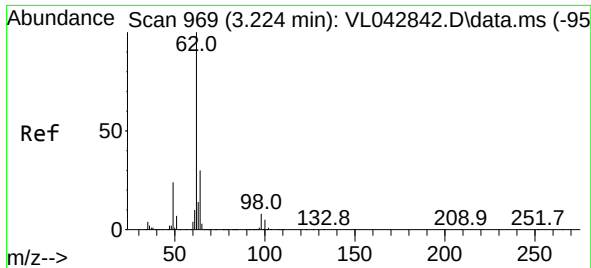


#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



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





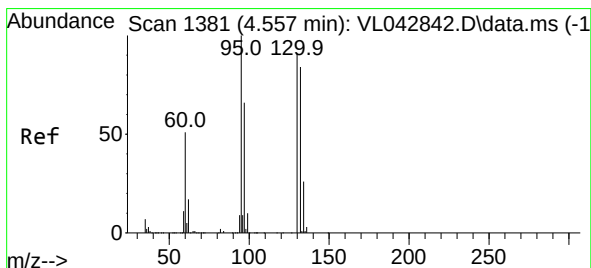
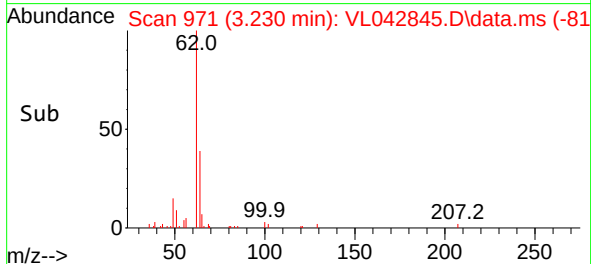
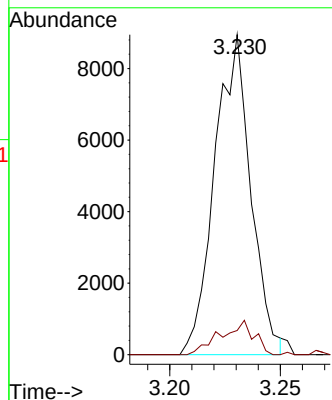
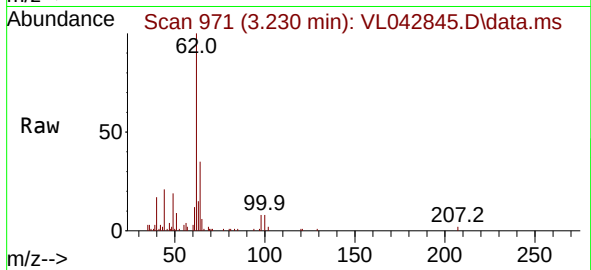
#37
1,2-Dichloroethane
Concen: 0.512 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

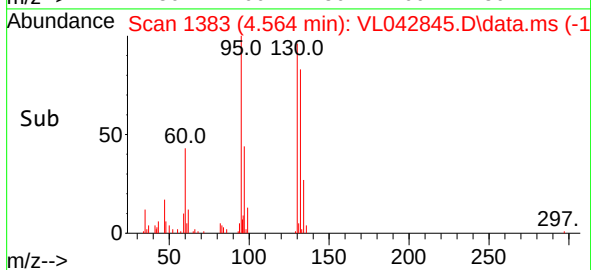
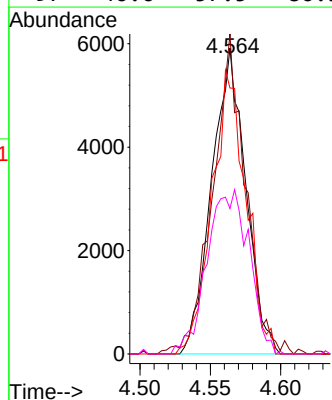
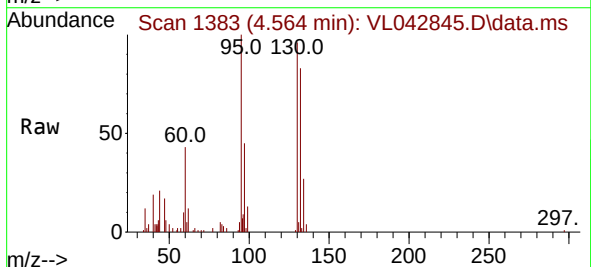
Manual Integrations
APPROVED

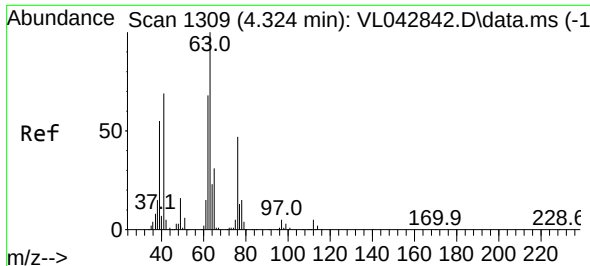
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

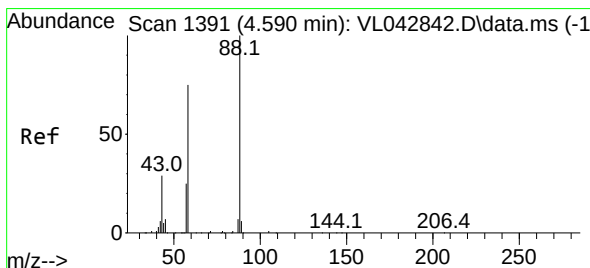
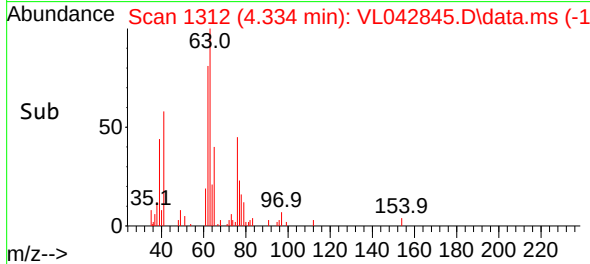
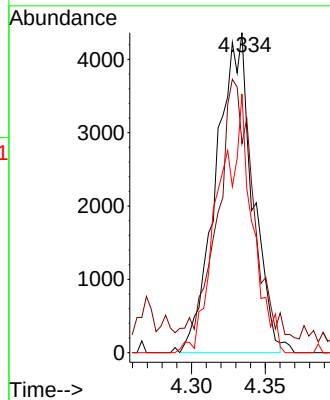
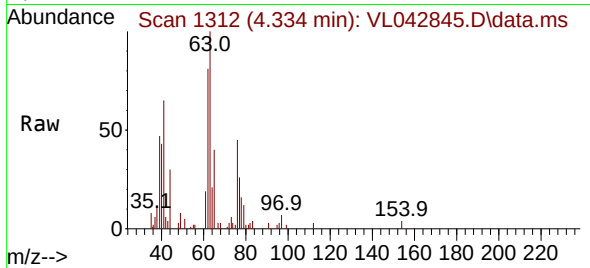
VSTDICC0.5

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

APPROVED

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



#40

1,4-Dioxane

Concen: 0.577 ppbv m

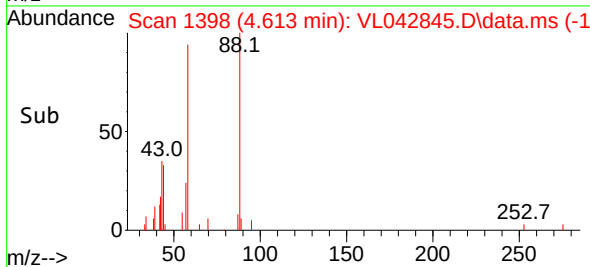
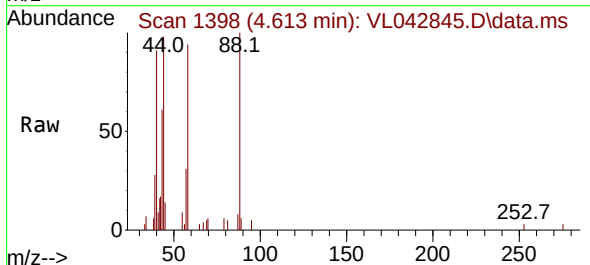
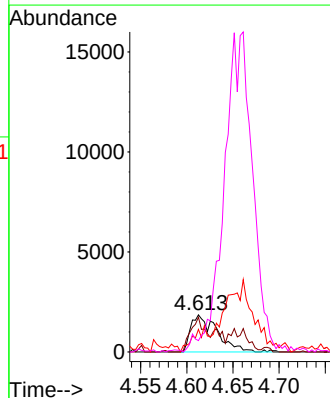
RT: 4.613 min Scan# 1398

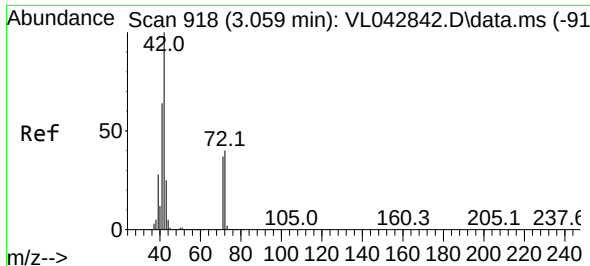
Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

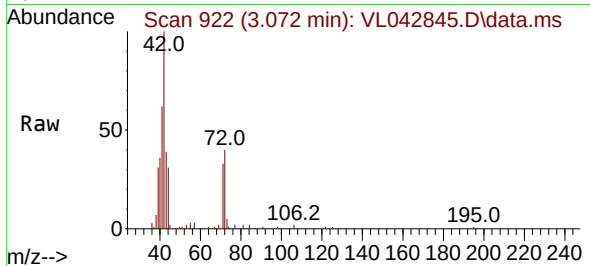
Tgt Ion: 88	Resp: 3743
Ion Ratio	Lower Upper
88 100	
58 118.4	53.8 80.6#
43 0.0	22.8 34.2#
57 0.0	0.0 0.0





#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

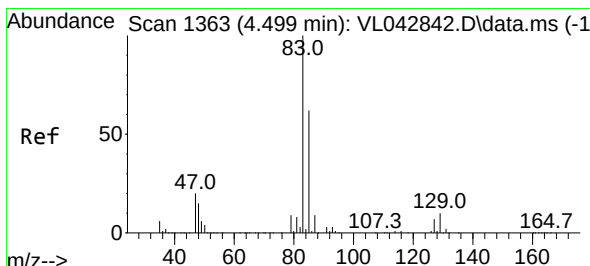
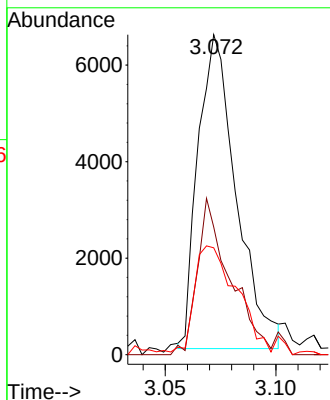
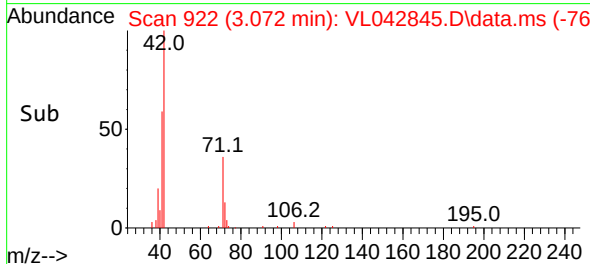
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

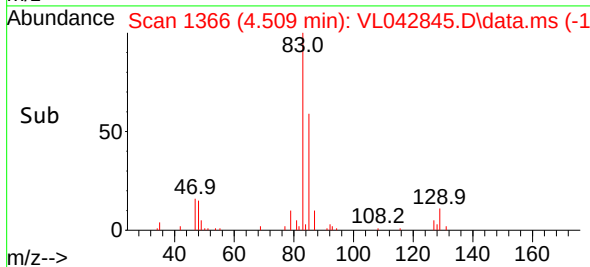
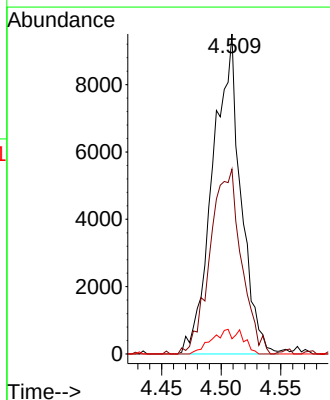
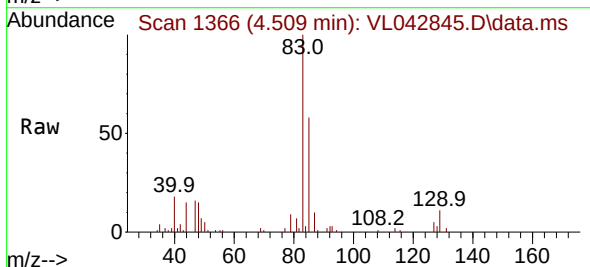
Manual Integrations
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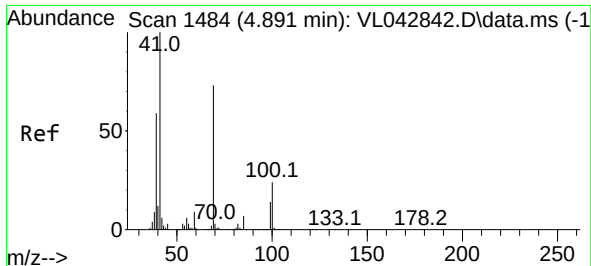
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

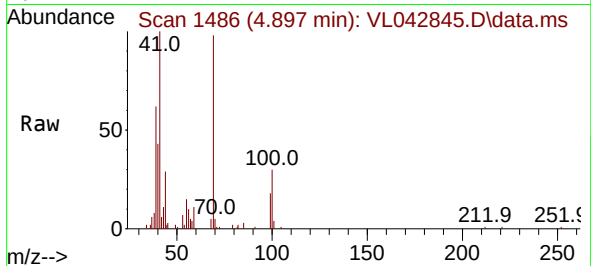
Tgt Ion: 83 Resp: 15580
Ion Ratio Lower Upper
83 100
85 57.7 49.8 74.8
127 4.7 5.8 8.6





#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

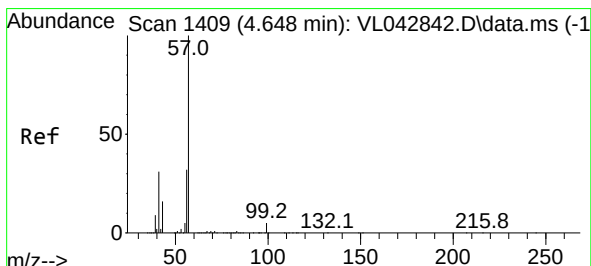
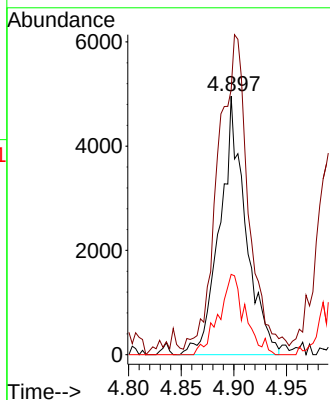
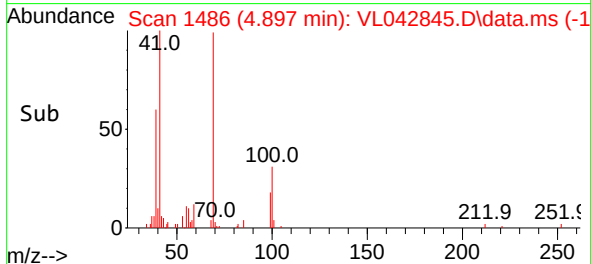
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

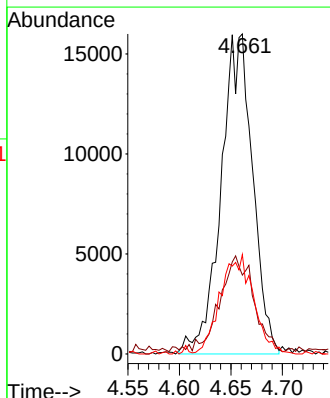
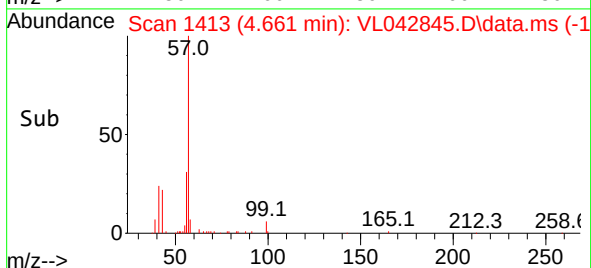
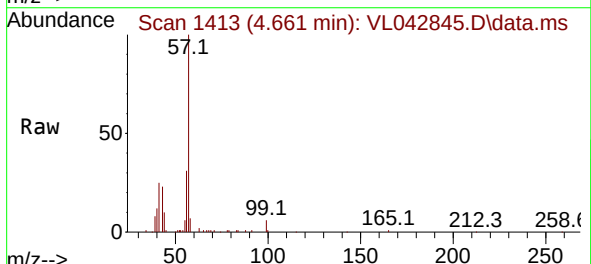
Manual Integrations
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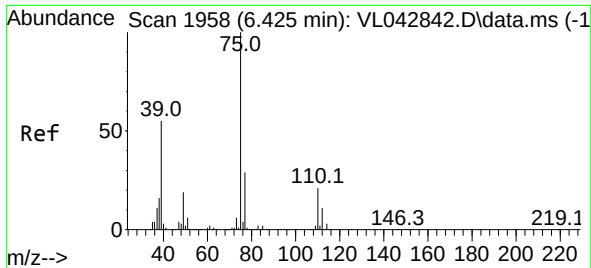
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

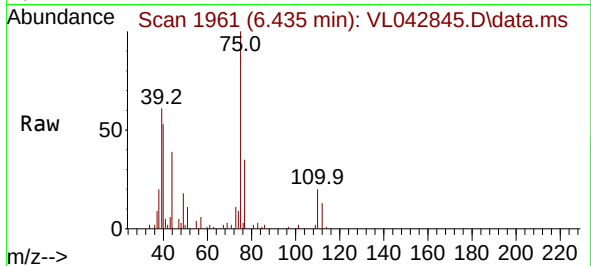
Tgt Ion: 57 Resp: 34237
Ion Ratio Lower Upper
57 100
41 32.2 24.8 37.2
56 0.0 25.5 38.3#





#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

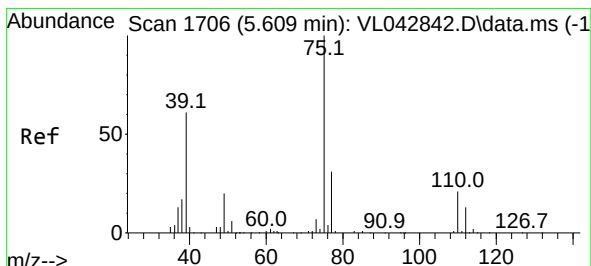
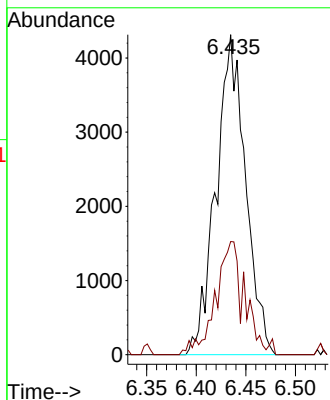
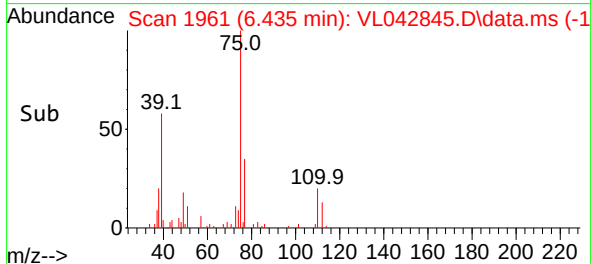
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



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

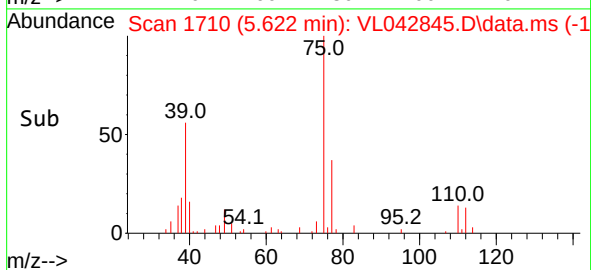
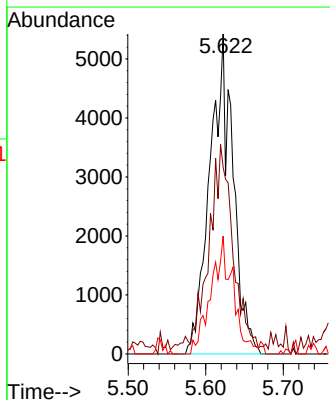
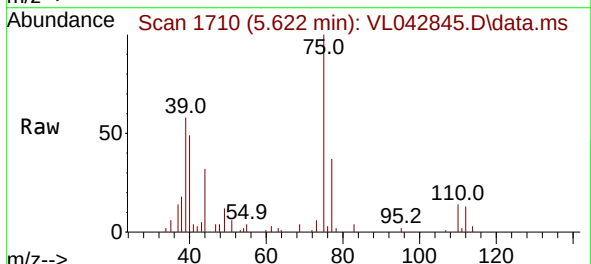
Manual Integrations
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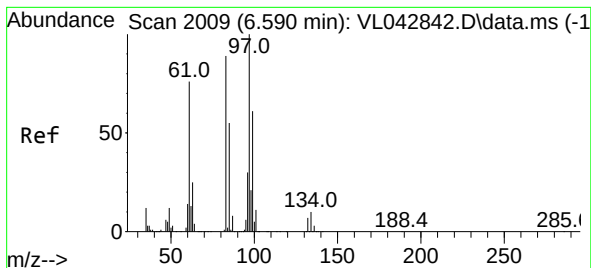
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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

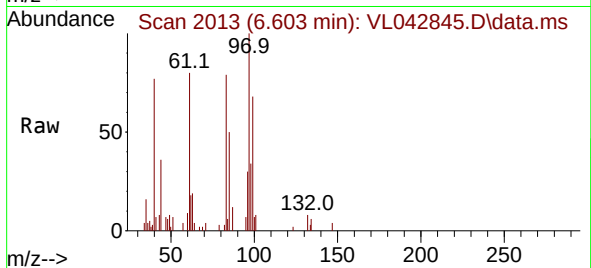
Tgt Ion: 75 Resp: 11259
 Ion Ratio Lower Upper
 75 100
 39 58.3 48.9 73.3
 77 36.9 24.9 37.3





#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

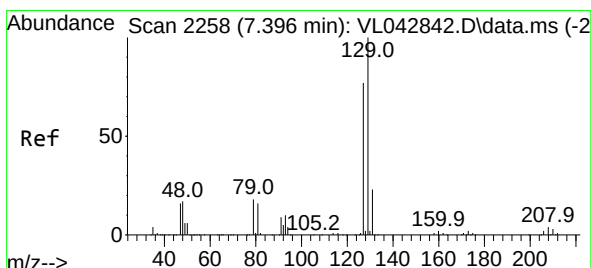
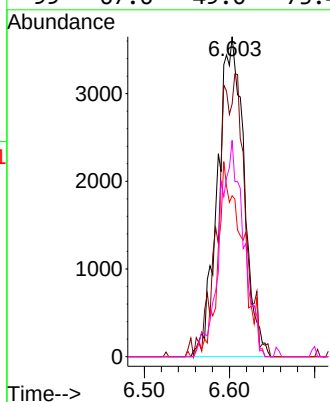
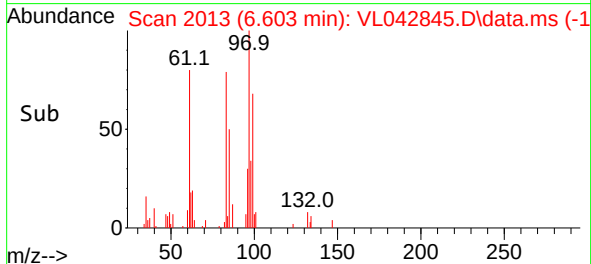
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



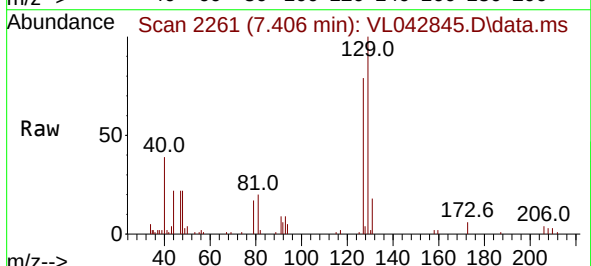
Tgt Ion: 97 Resp: 783
Ion Ratio Lower Upper
97 100
83 78.9 71.0 106.4
85 50.3 43.6 65.4
99 67.6 49.0 73.4

Manual Integrations
APPROVED

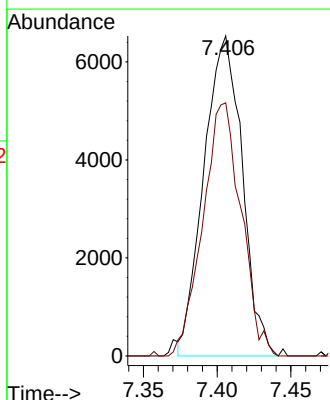
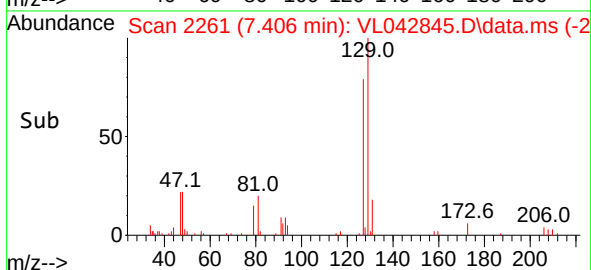
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

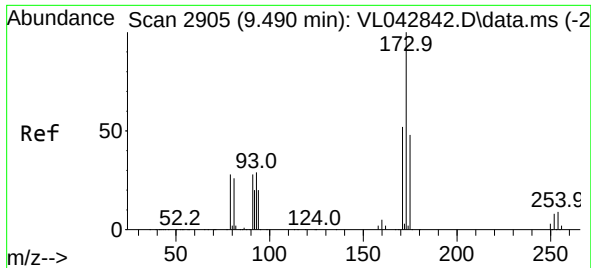


#48
Dibromochloromethane
Concen: 0.497 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



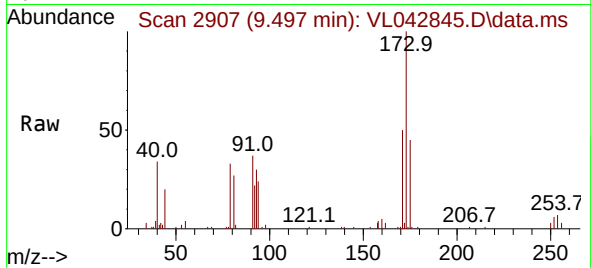
Tgt Ion:129 Resp: 11805
Ion Ratio Lower Upper
129 100
127 79.1 39.4 118.2





#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

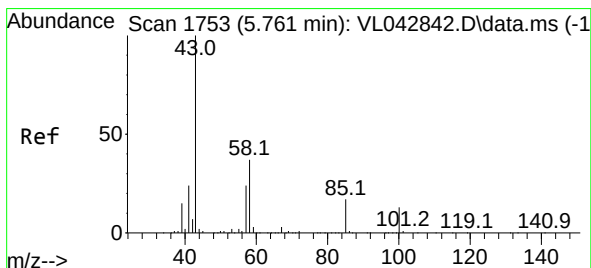
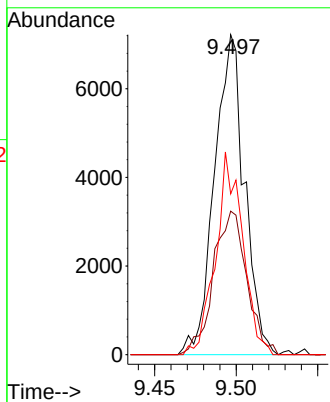
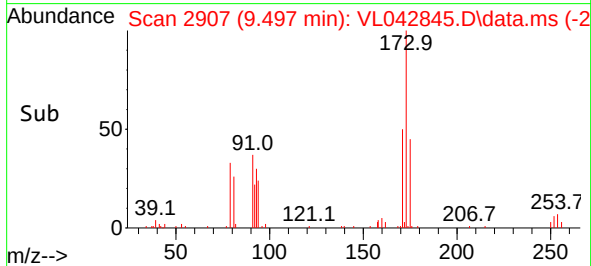
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

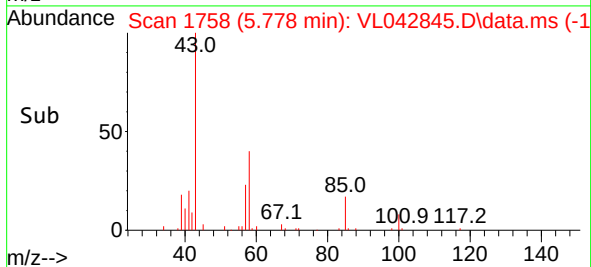
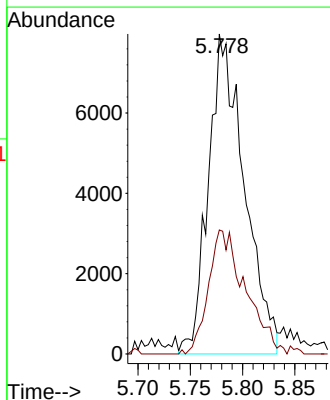
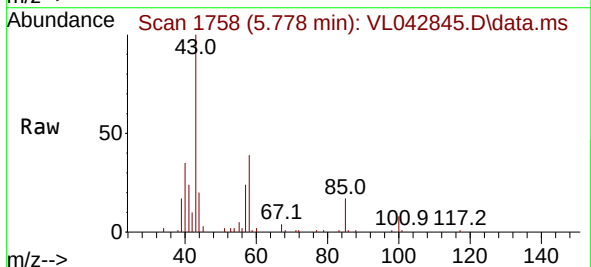
Manual Integrations
APPROVED

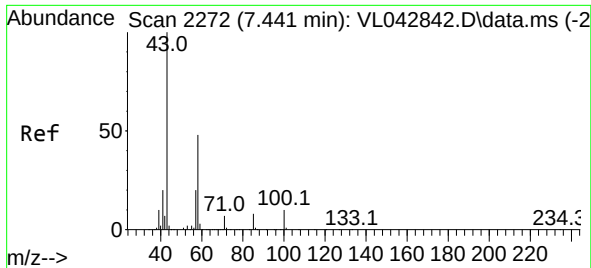
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

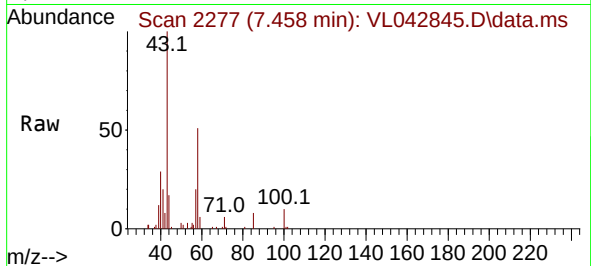
Tgt Ion: 43 Resp: 19028
Ion Ratio Lower Upper
43 100
58 40.4 29.8 44.8





#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

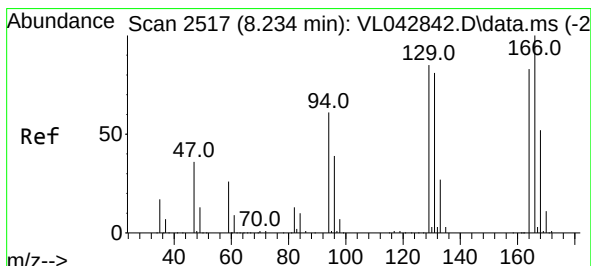
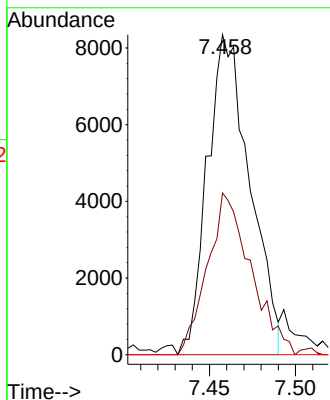
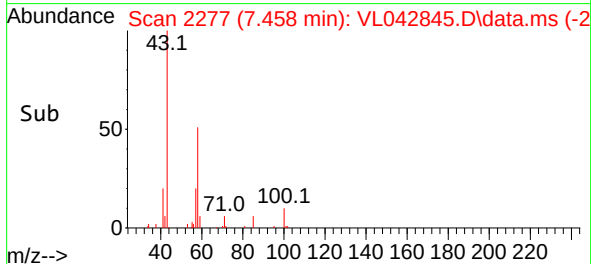
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

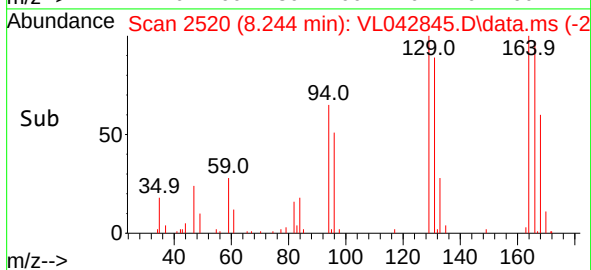
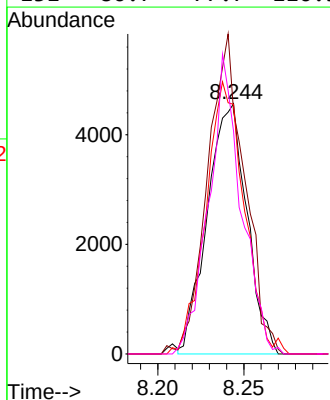
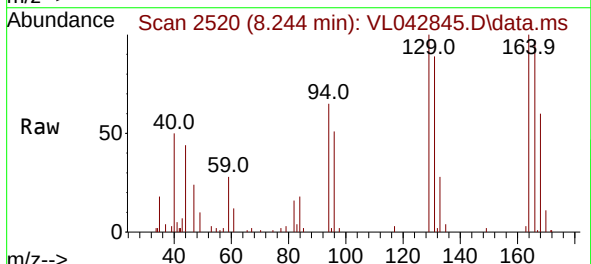
Manual Integrations
APPROVED

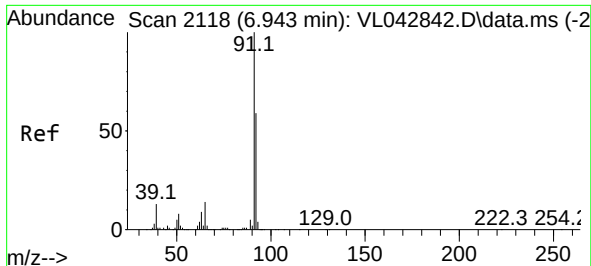
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

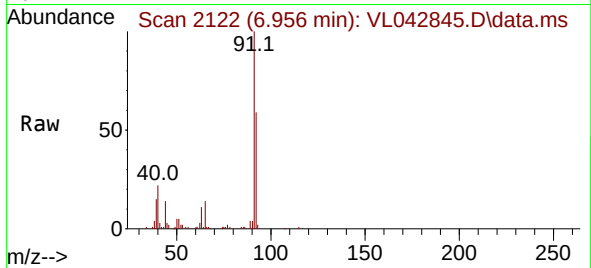
Tgt Ion:164 Resp: 7304
Ion Ratio Lower Upper
164 100
166 95.1 96.5 144.7#
129 98.0 81.8 122.6
131 86.7 77.7 116.5





#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

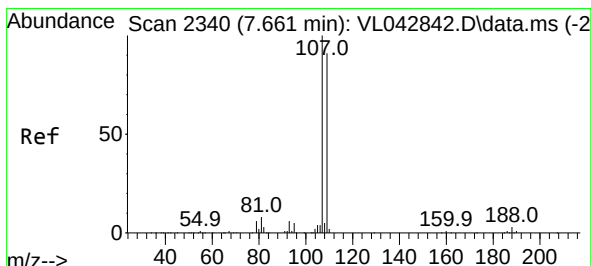
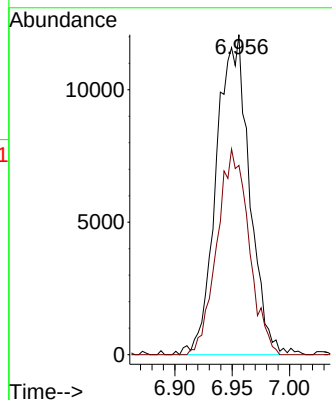
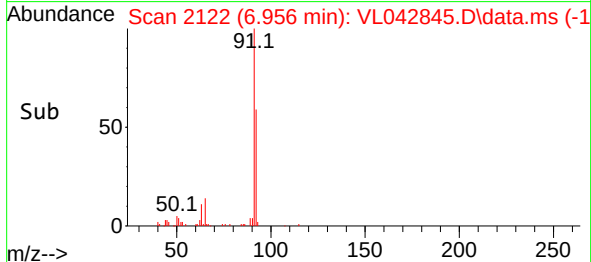
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



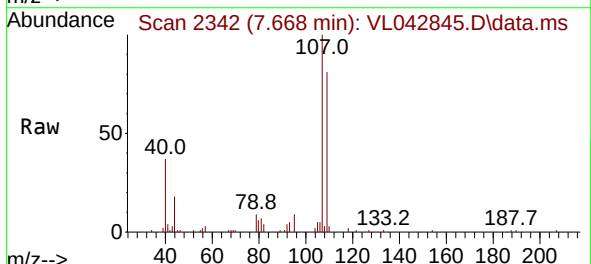
Tgt Ion: 91 Resp: 2415
Ion Ratio Lower Upper
91 100
92 62.1 47.8 71.6

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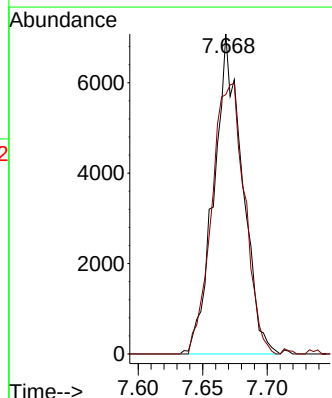
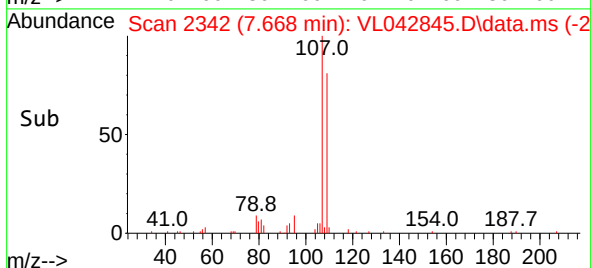
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

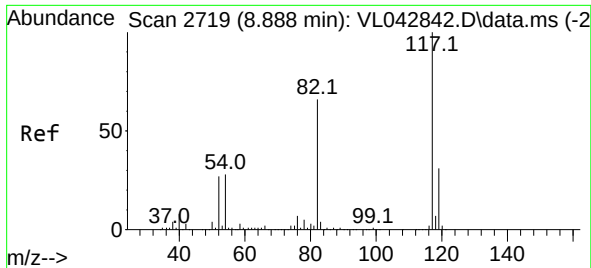


#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:107 Resp: 10873
Ion Ratio Lower Upper
107 100
109 81.0 72.5 108.7





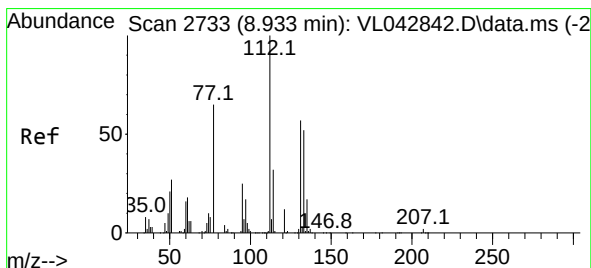
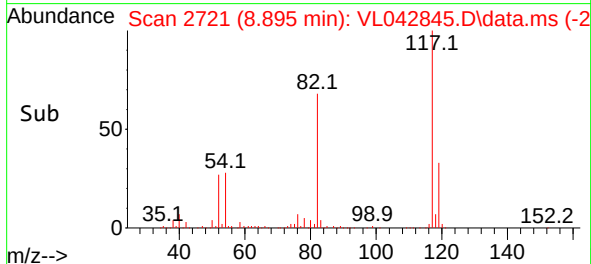
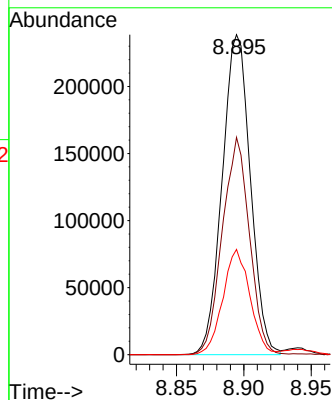
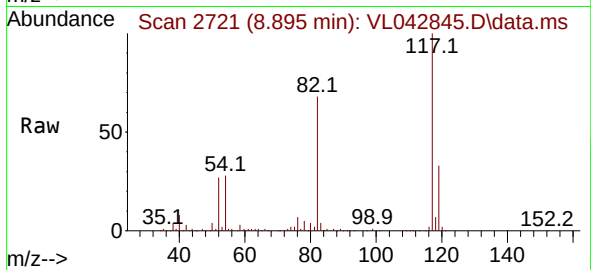
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

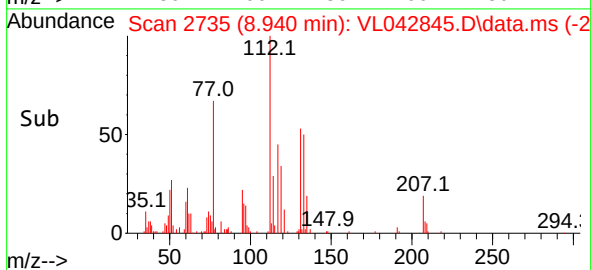
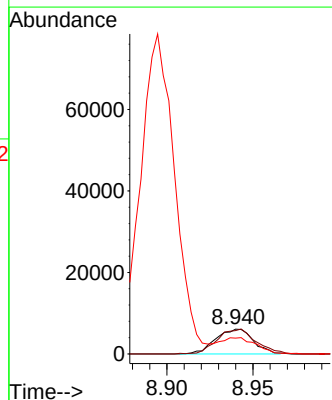
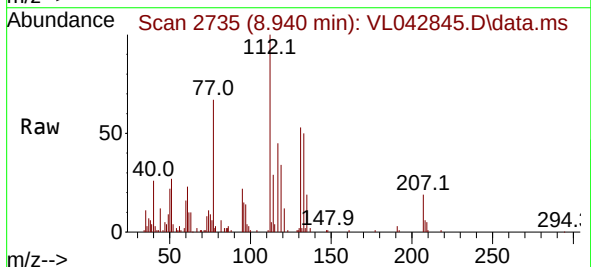
Manual Integrations
APPROVED

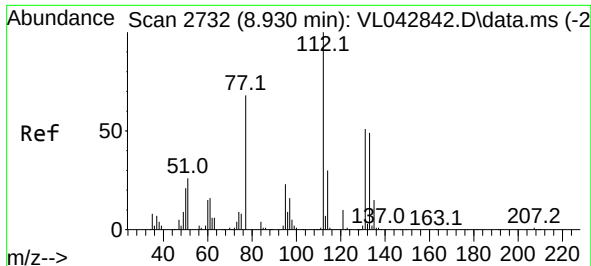
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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#





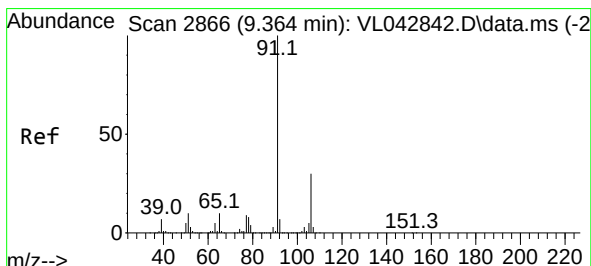
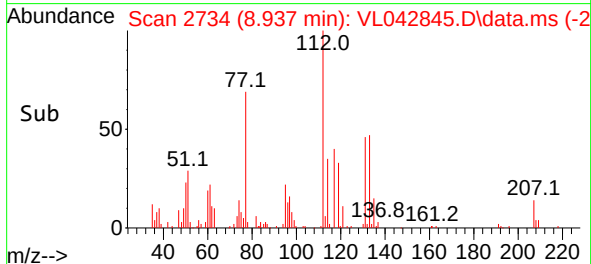
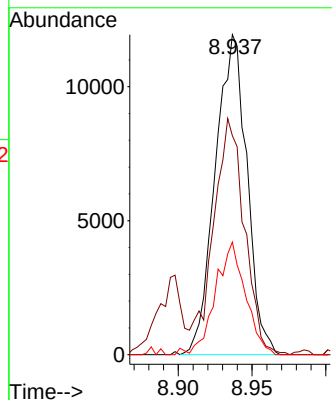
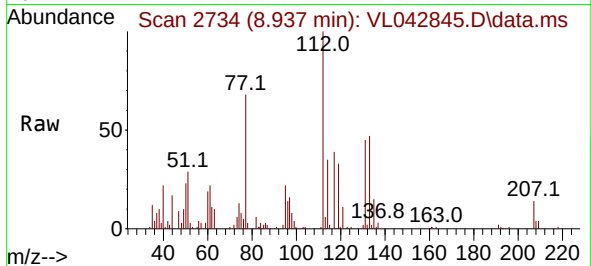
#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

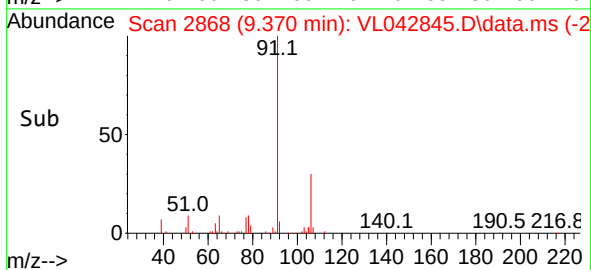
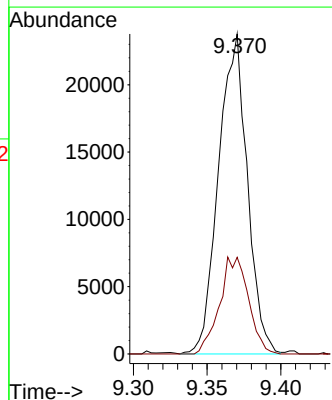
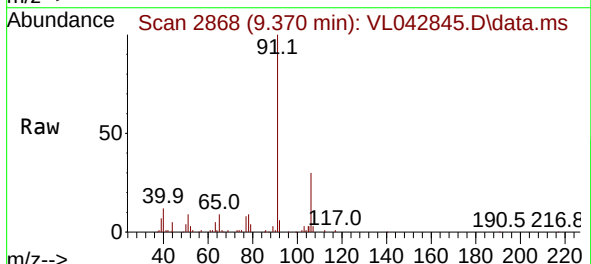
Manual Integrations
APPROVED

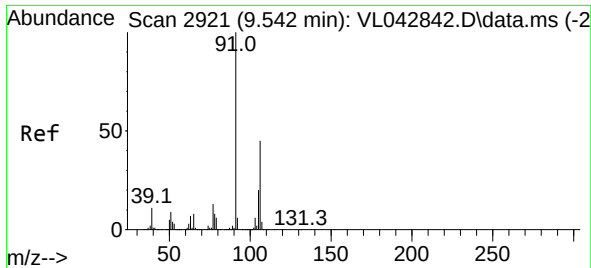
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





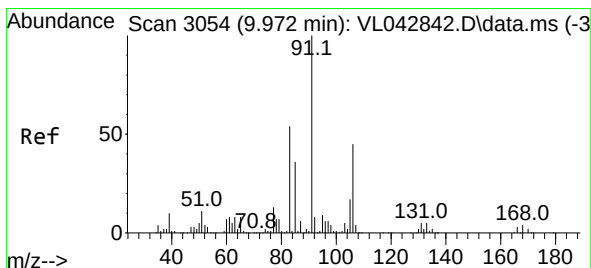
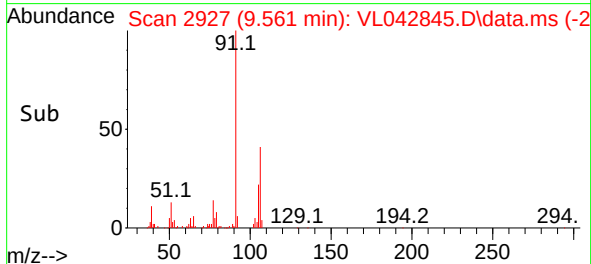
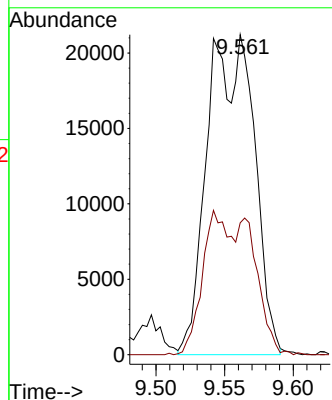
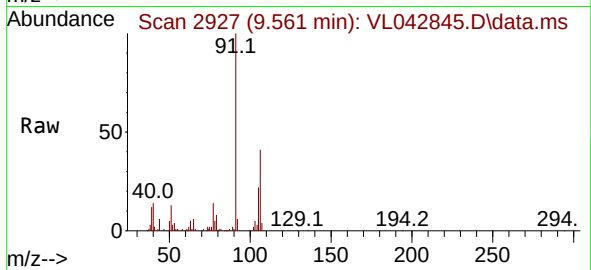
#59
m/p-Xylene
Concen: 1.045 ppbv m
RT: 9.561 min Scan# 2921
Delta R.T. 0.019 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 50372
Ion Ratio Lower Upper
91 100
106 46.9 0.0 0.0

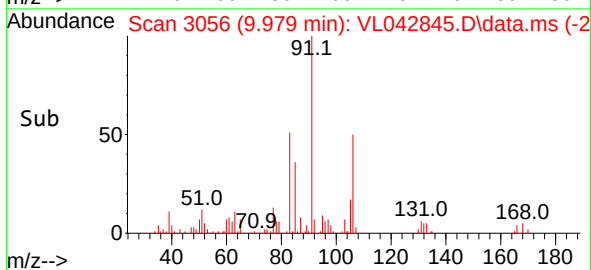
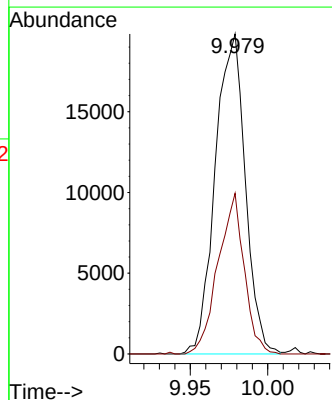
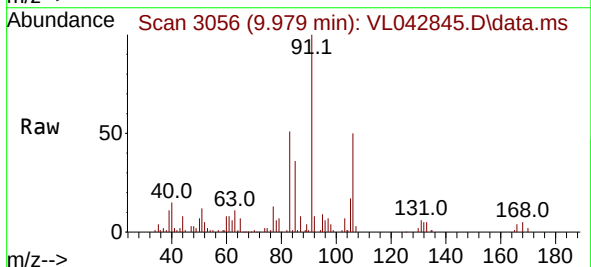
Manual Integrations
APPROVED

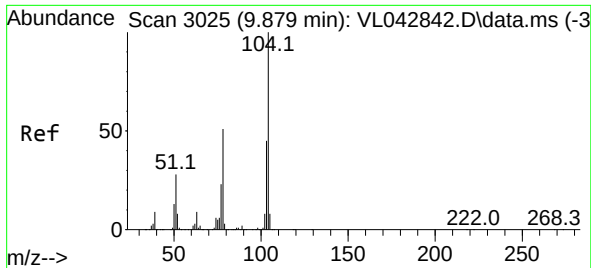
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

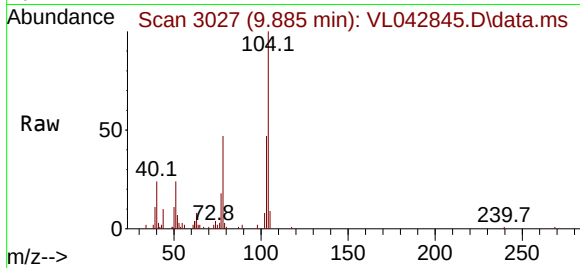
Tgt Ion: 91 Resp: 26662
Ion Ratio Lower Upper
91 100
106 43.8 21.8 65.4





#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

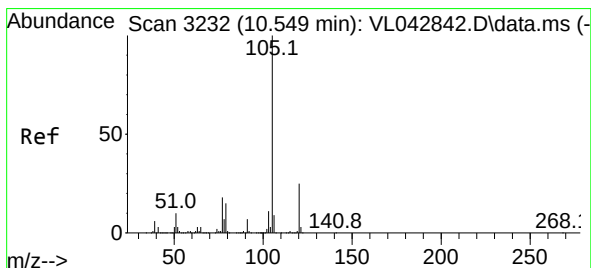
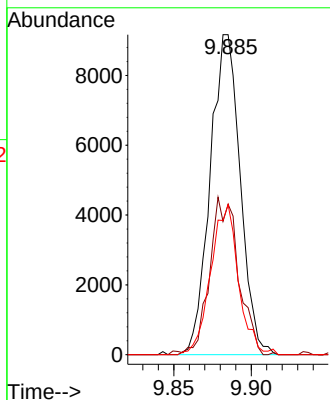
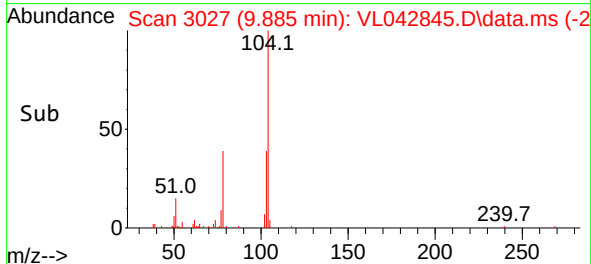
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



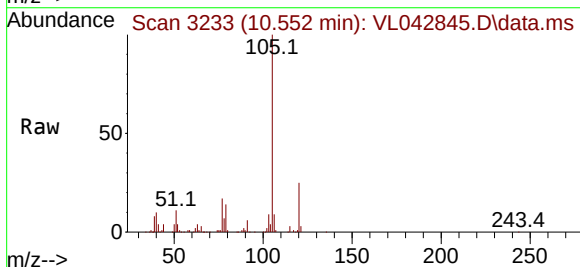
Tgt Ion:104 Resp: 12379
Ion Ratio Lower Upper
104 100
78 47.4 40.6 61.0
103 43.4 37.7 56.5

Manual Integrations
APPROVED

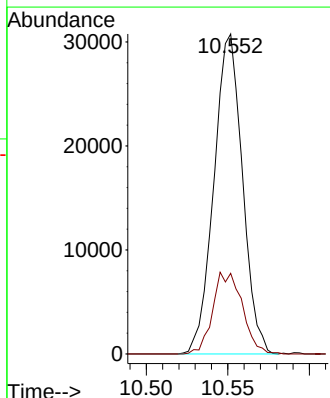
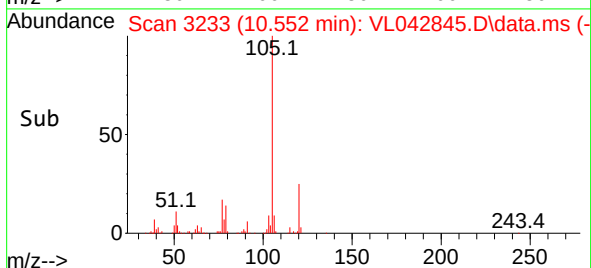
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

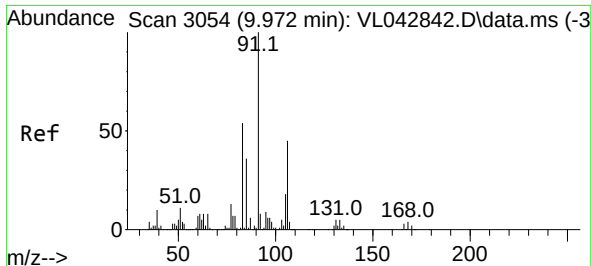


#62
Isopropylbenzene
Concen: 0.529 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:105 Resp: 37401
Ion Ratio Lower Upper
105 100
120 26.5 20.6 30.8





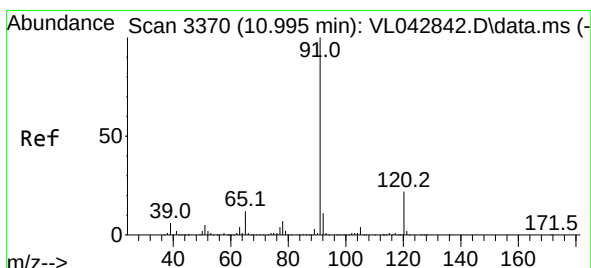
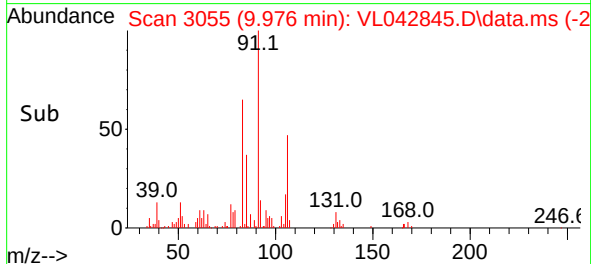
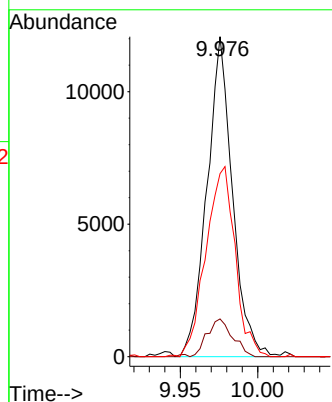
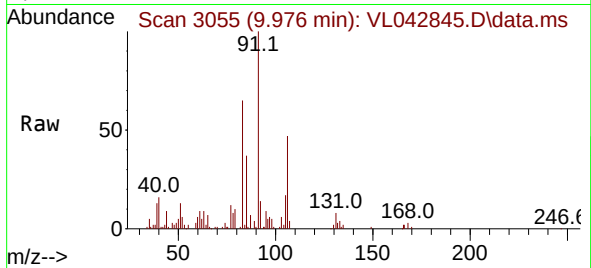
#63
1,1,2,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

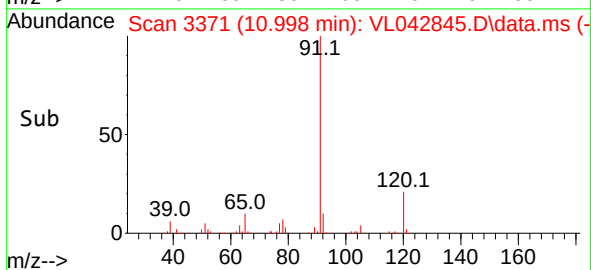
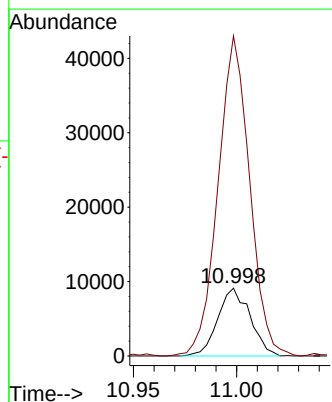
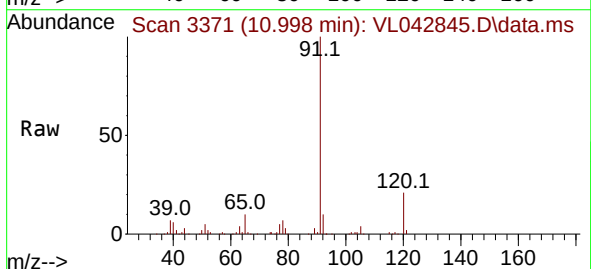
Manual Integrations
APPROVED

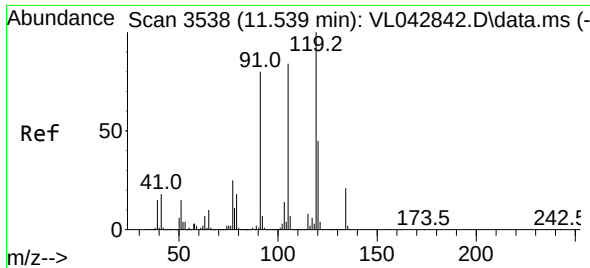
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





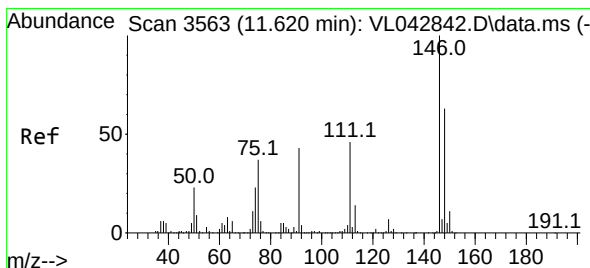
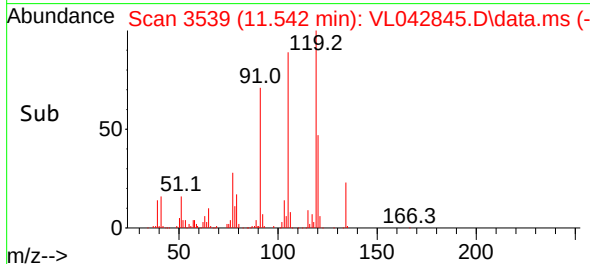
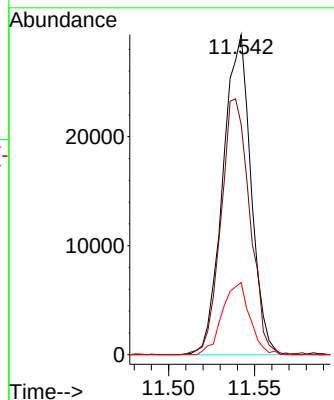
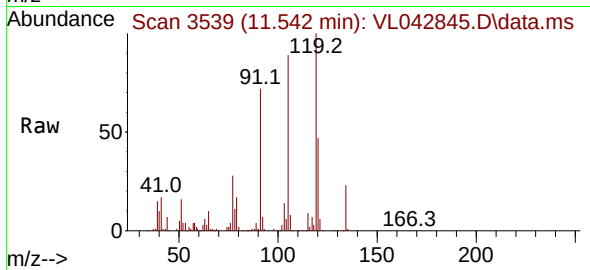
#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

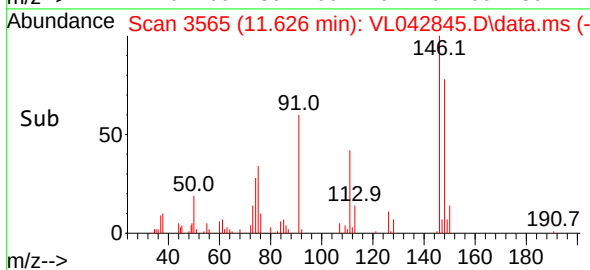
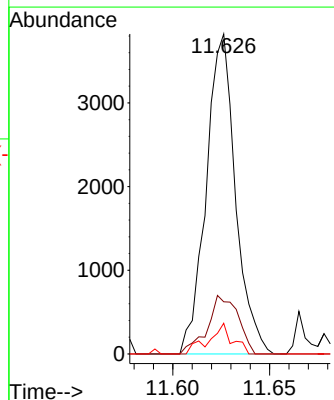
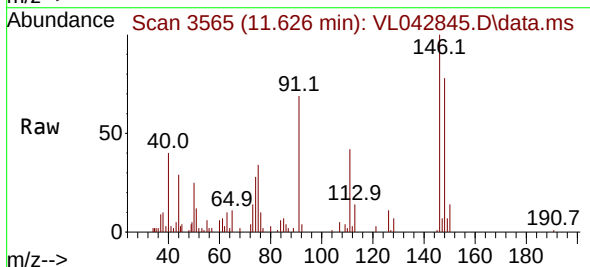
Manual Integrations
APPROVED

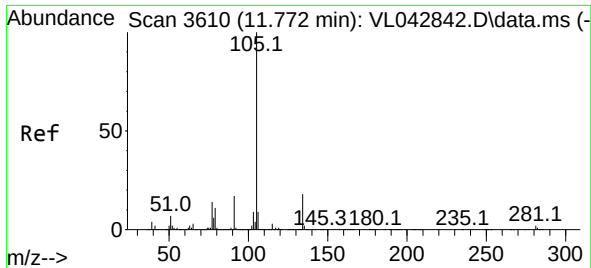
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

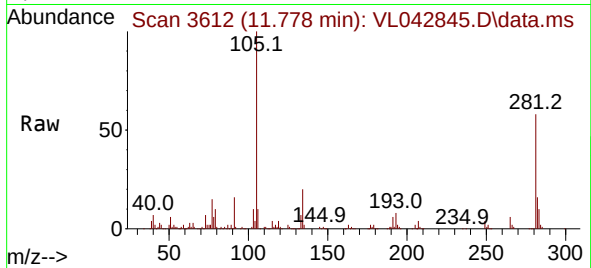
Tgt Ion:	91	Resp:	4039
Ion	Ratio	Lower	Upper
91	100		
126	19.0	14.2	21.4
128	7.6	5.0	7.6#





#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

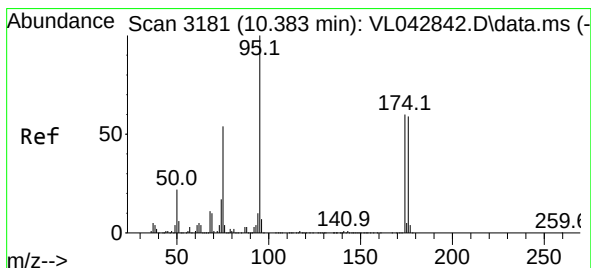
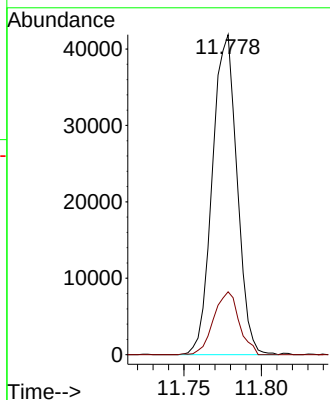
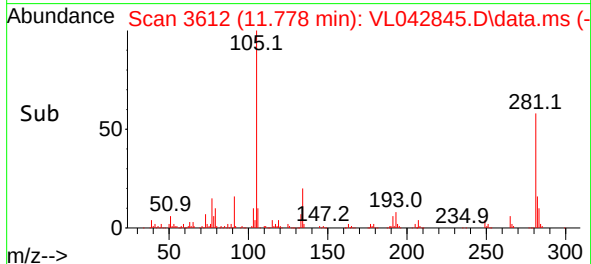
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



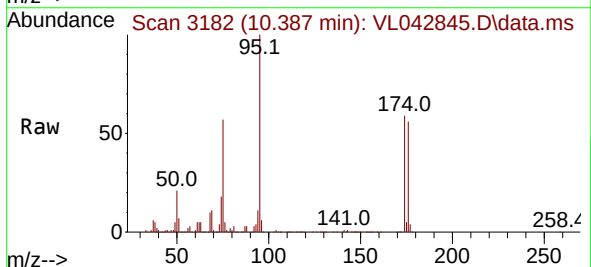
Tgt Ion: 105 Resp: 4643
 Ion Ratio Lower Upper
 105 100
 134 20.3 14.9 22.3

Manual Integrations
 APPROVED

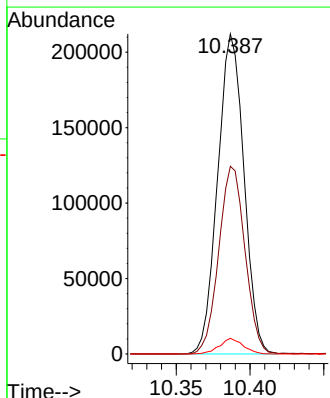
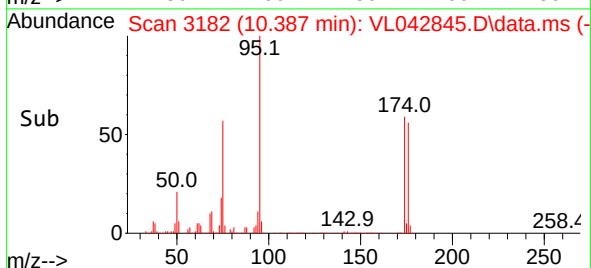
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

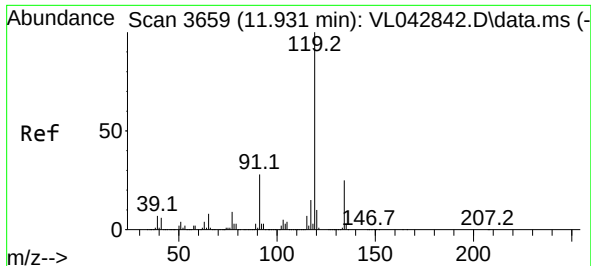


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



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





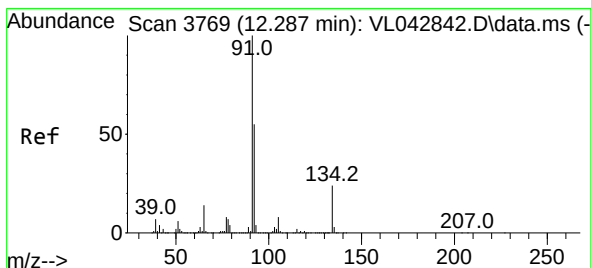
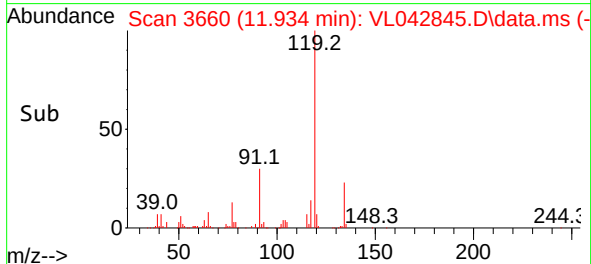
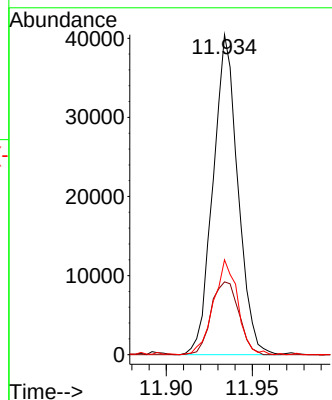
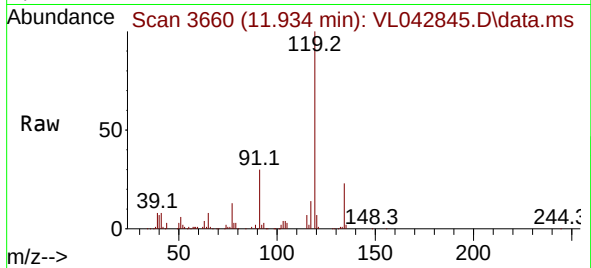
#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.934 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

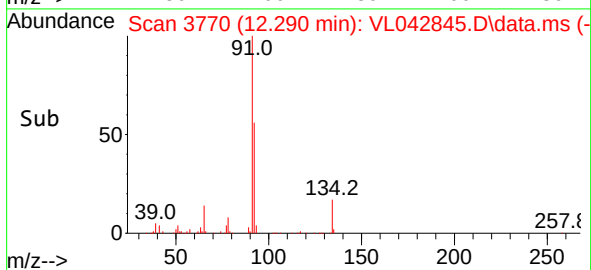
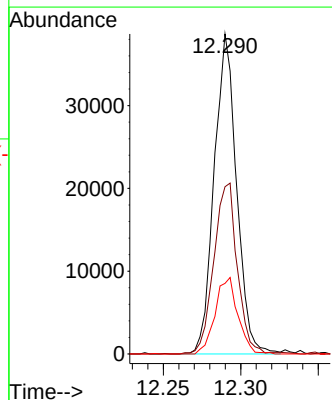
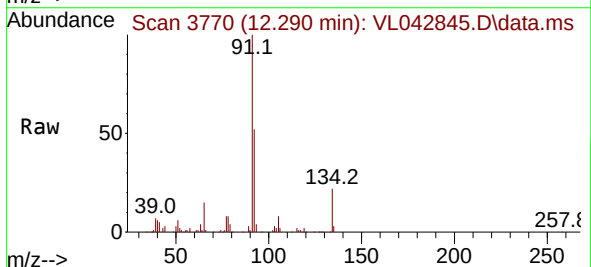
Manual Integrations
APPROVED

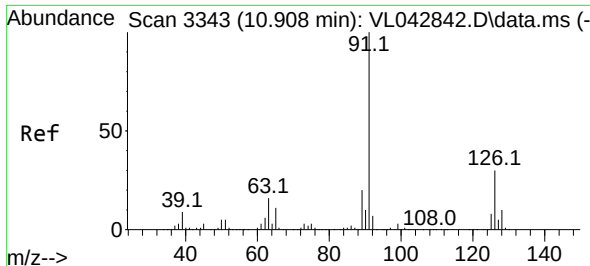
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





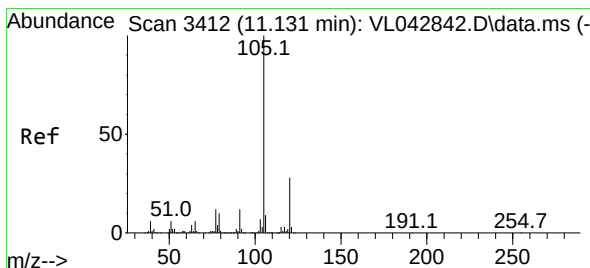
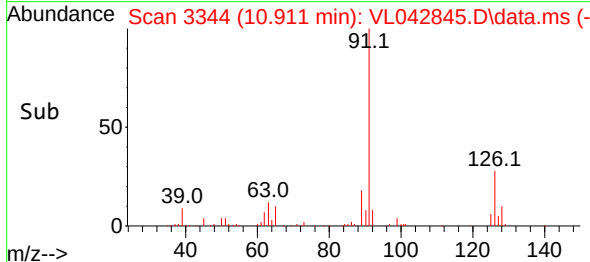
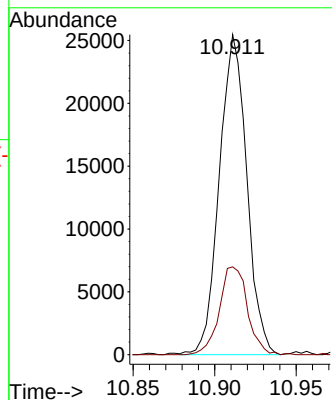
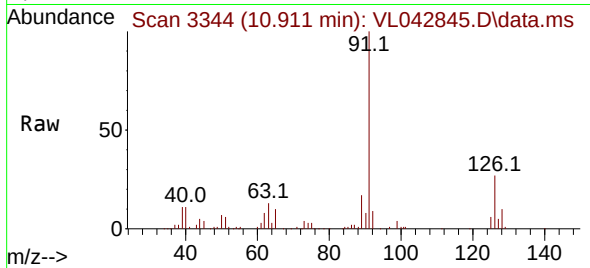
#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 29730
Ion Ratio Lower Upper
91 100
126 28.2 12.0 47.8

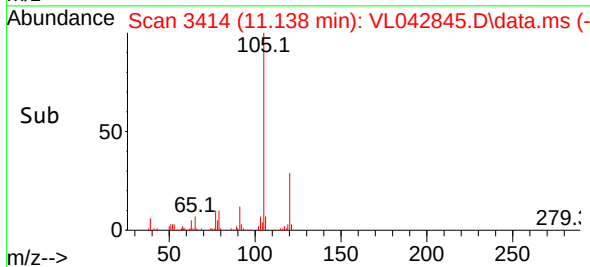
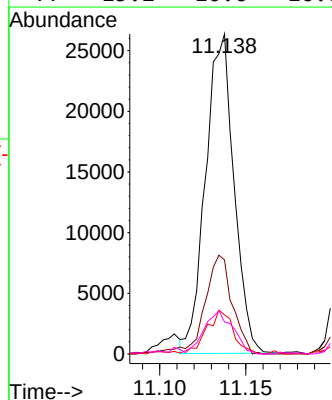
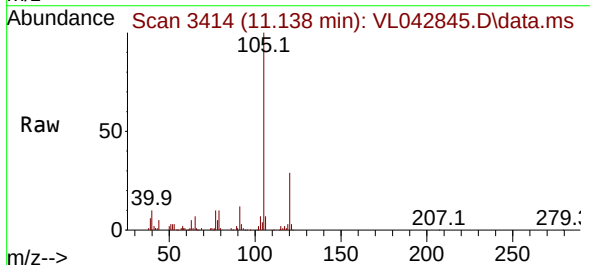
Manual Integrations
APPROVED

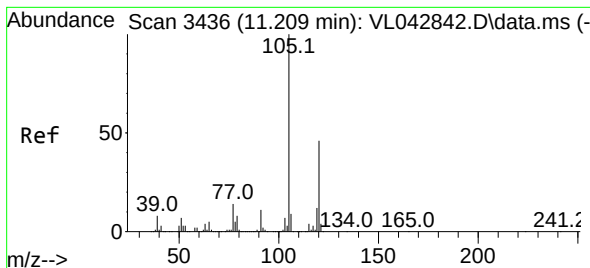
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

VSTDICC0.5

Tgt Ion:105 Resp: 2694

Ion Ratio Lower Upper

105 100

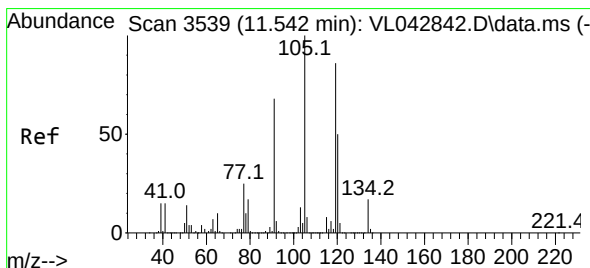
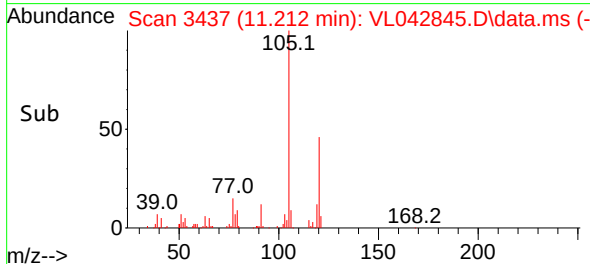
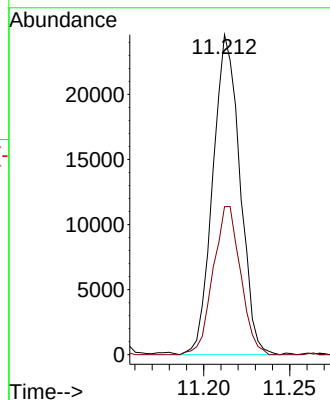
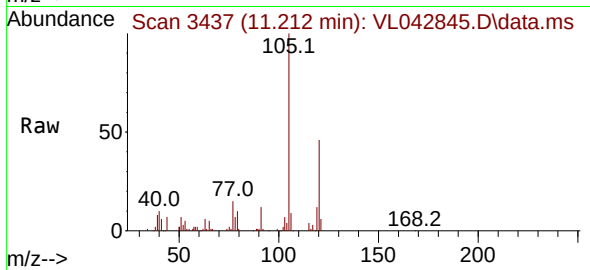
120 46.2 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 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

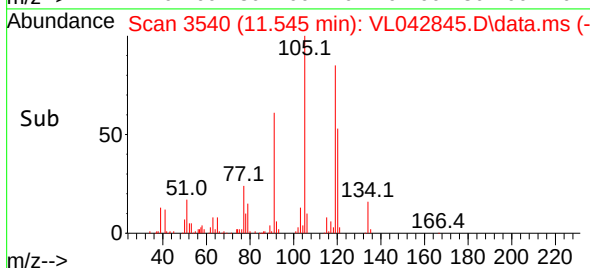
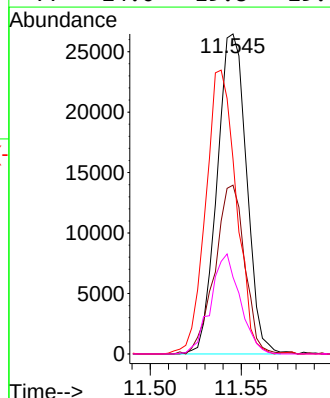
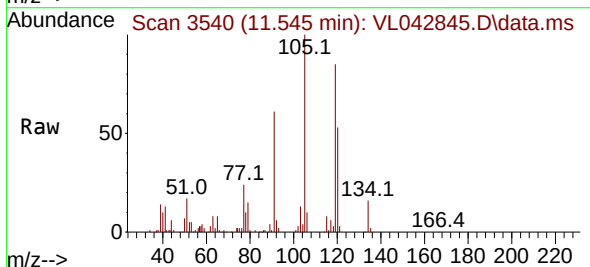
Ion Ratio Lower Upper

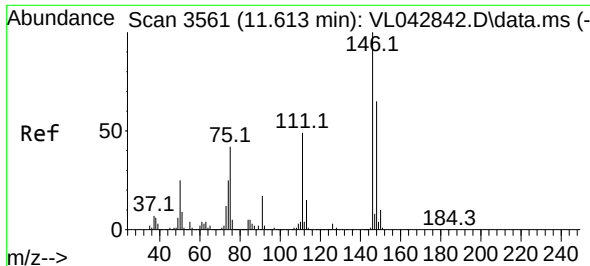
105 100

120 52.4 39.8 59.6

91 60.6 54.2 81.4

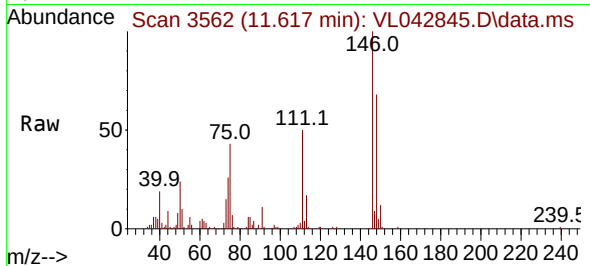
77 24.0 19.8 29.6





#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

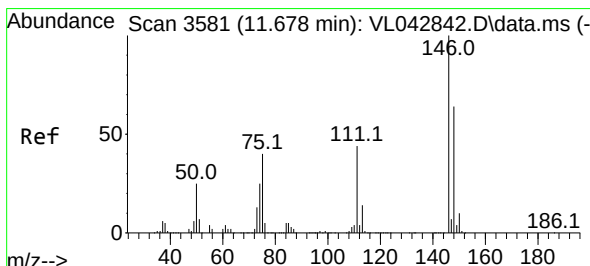
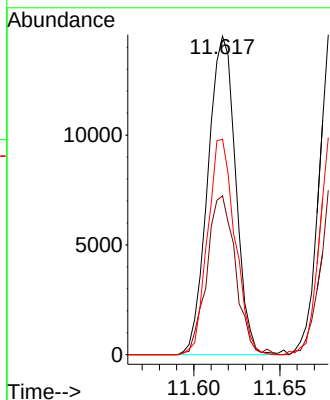
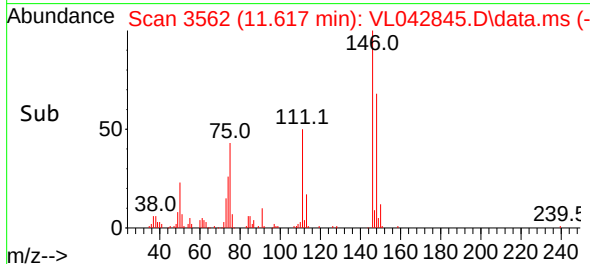
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



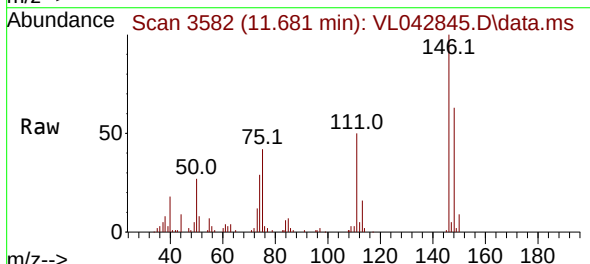
Tgt Ion:146 Resp: 1631
Ion Ratio Lower Upper
146 100
111 51.2 23.9 71.7
148 66.5 31.4 94.0

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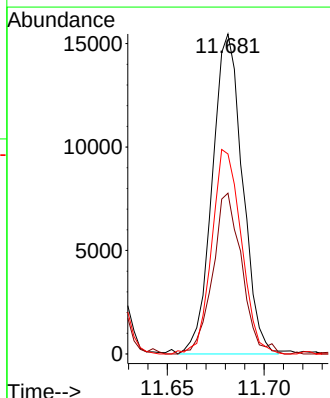
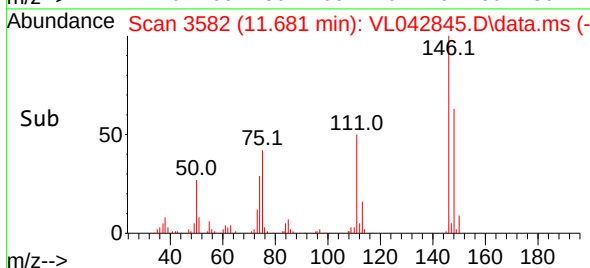
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

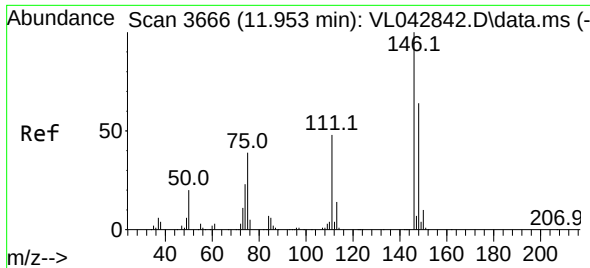


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



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





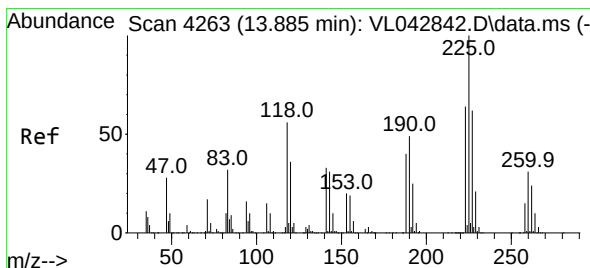
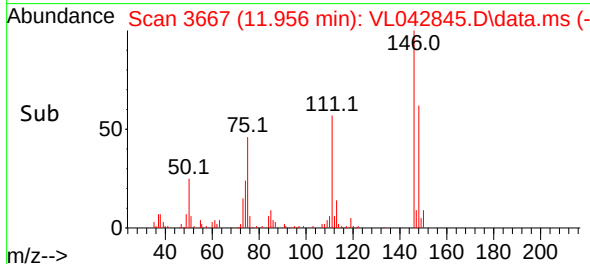
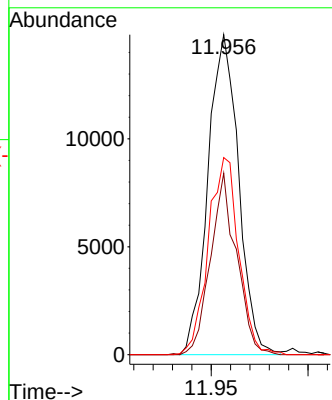
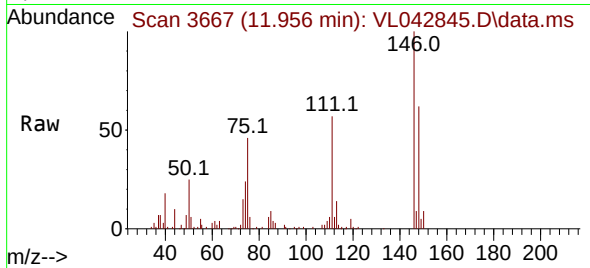
#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3667
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

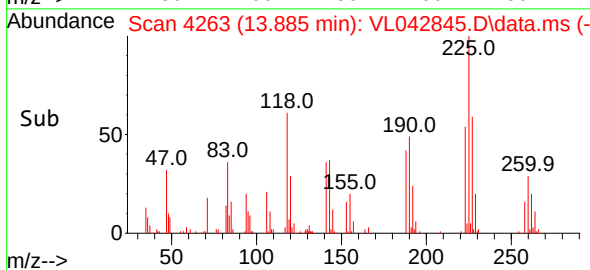
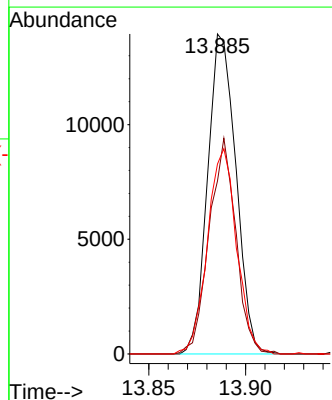
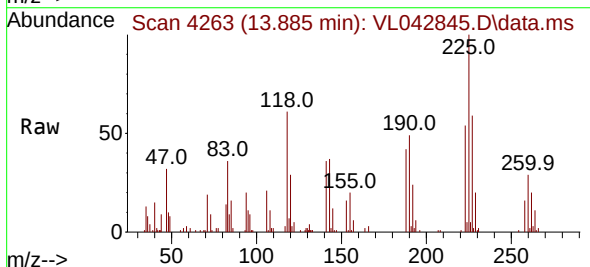
Manual Integrations
APPROVED

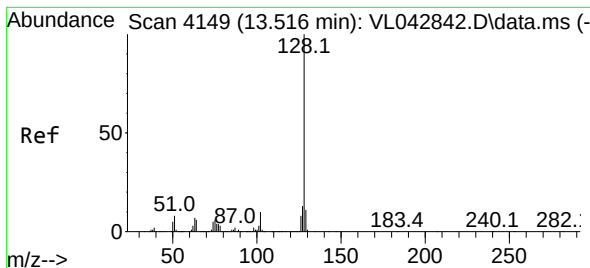
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

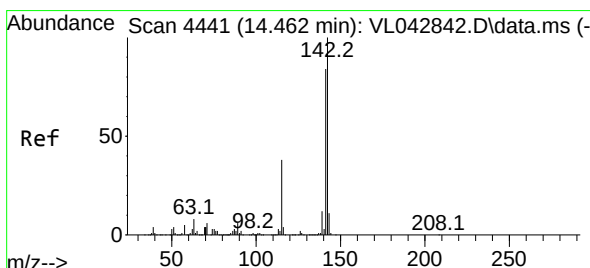
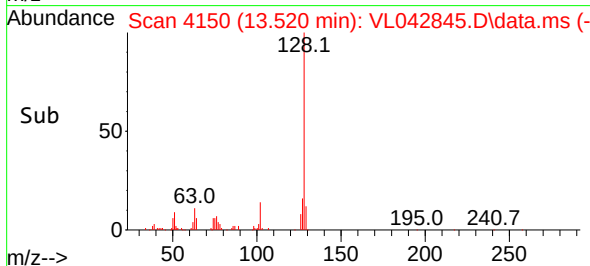
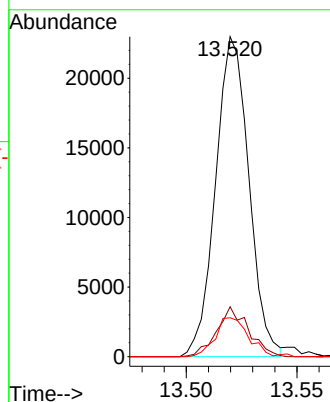
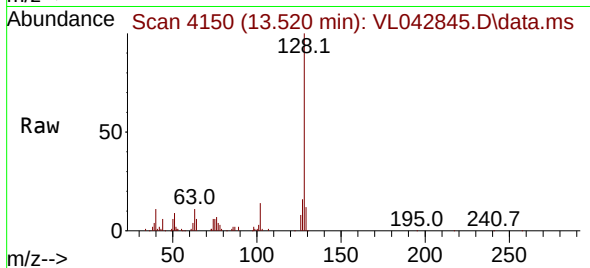
VSTDIC0.5

Tgt Ion:	128	Resp:	2405
Ion Ratio	Lower	Upper	
128	100		
127	15.6	10.6	16.0
129	12.2	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: 0.405 ppbv

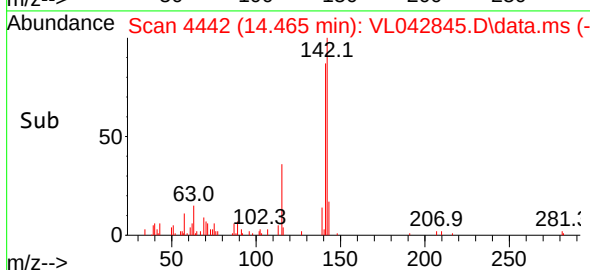
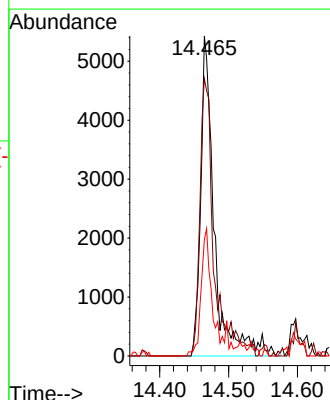
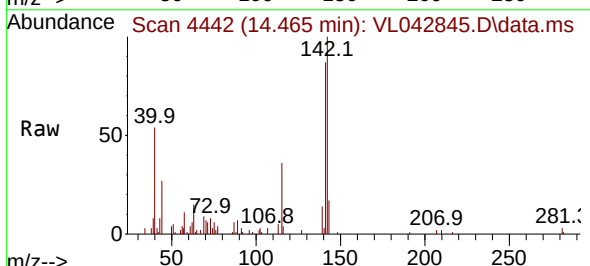
RT: 14.465 min Scan# 4442

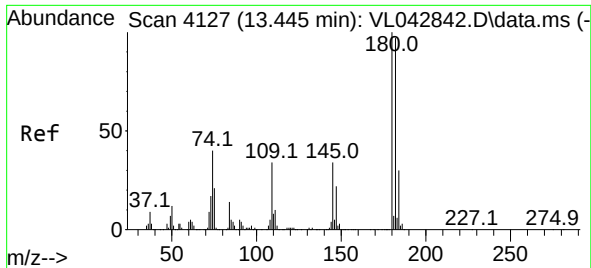
Delta R.T. 0.003 min

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# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

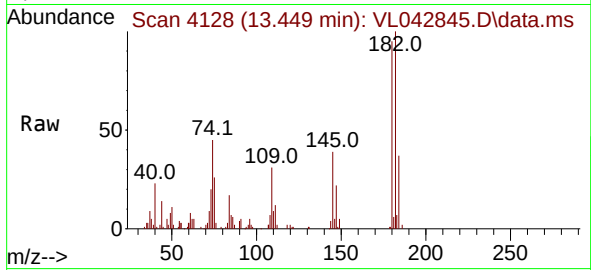
Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

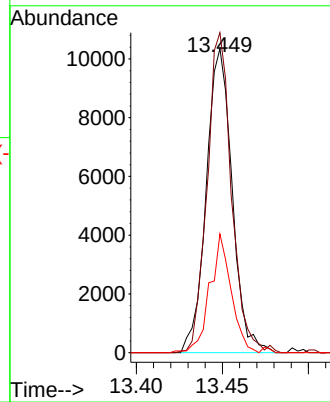
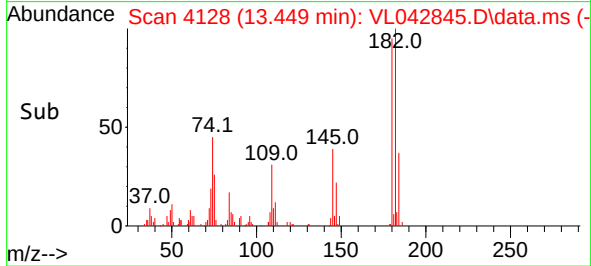


Tgt Ion:	180	Resp:	1084
Ion	Ratio	Lower	Upper
180	100		
182	99.1	76.9	115.3
184	32.6	24.5	36.7

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
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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 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

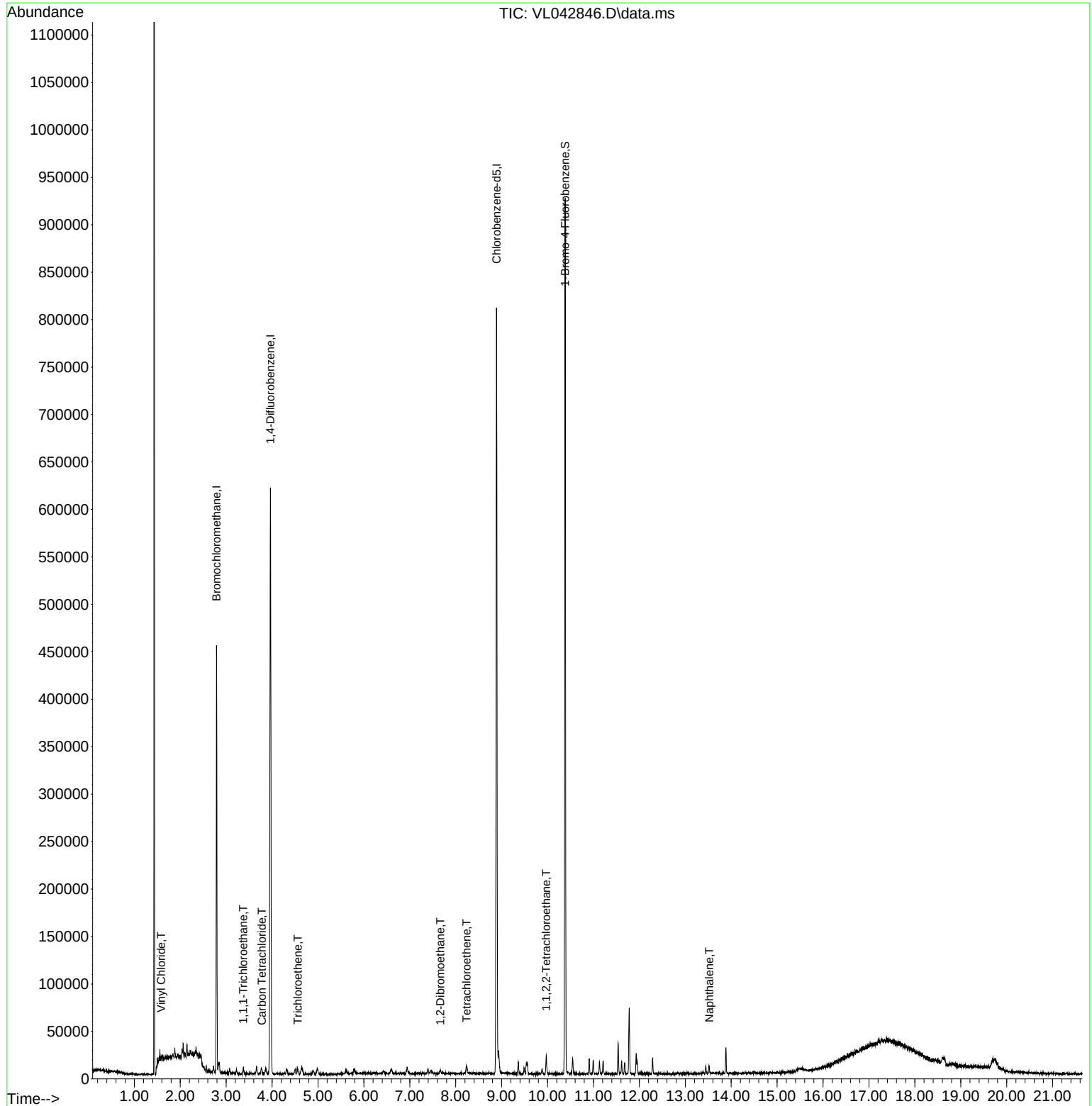
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

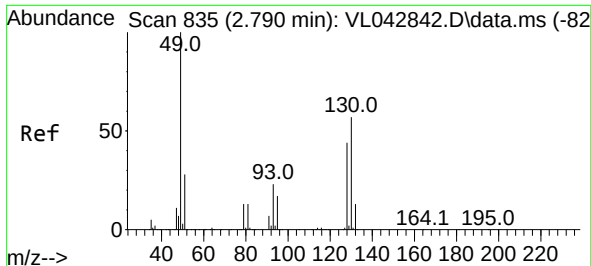
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

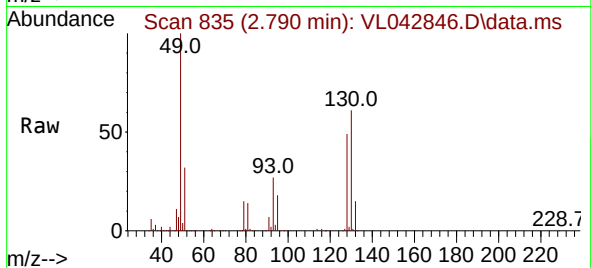
Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration





#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

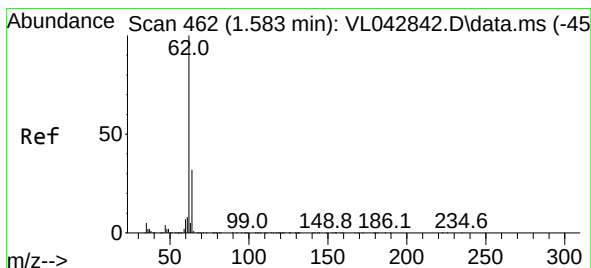
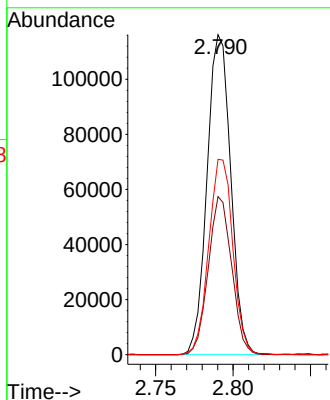
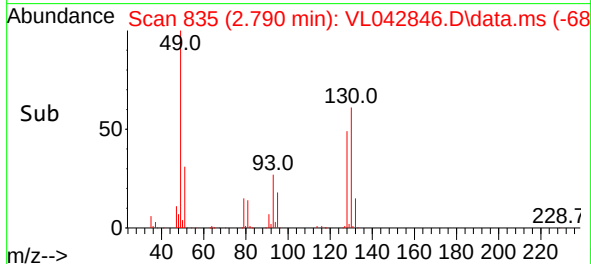
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



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

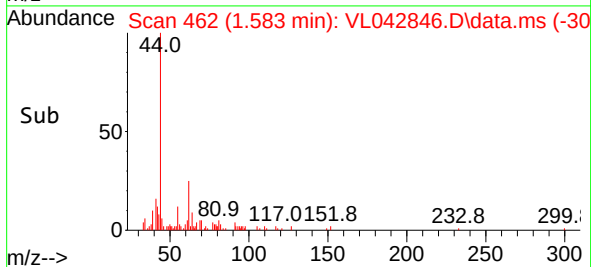
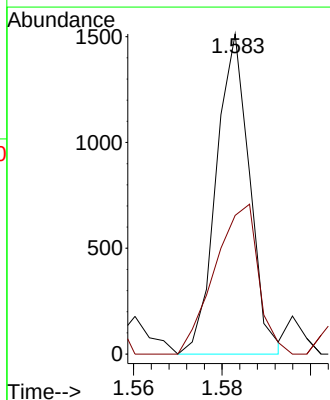
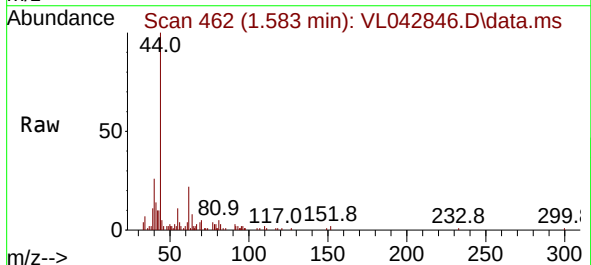
Manual Integrations
APPROVED

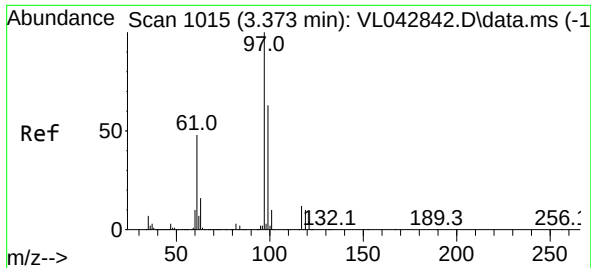
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

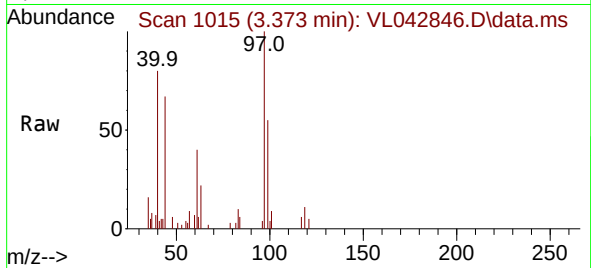
Tgt Ion: 62 Resp: 790
Ion Ratio Lower Upper
62 100
64 39.7 25.4 38.2#





#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

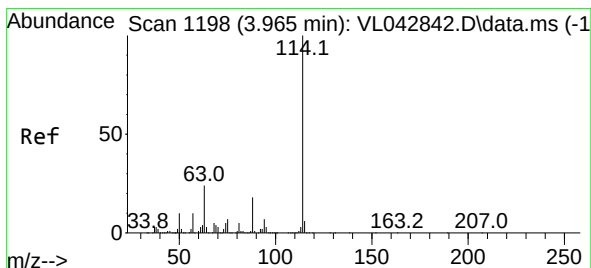
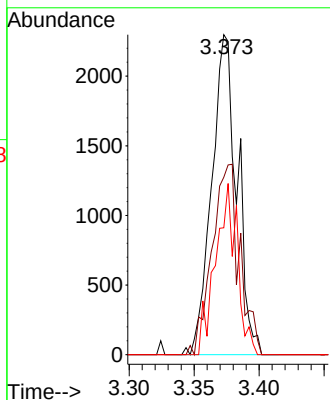
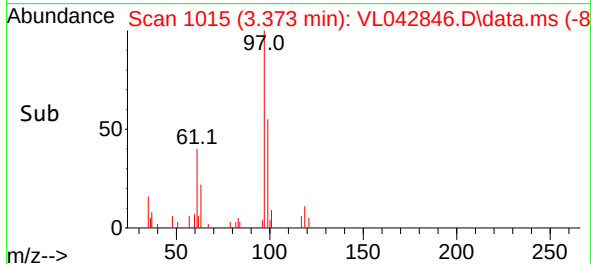
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



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

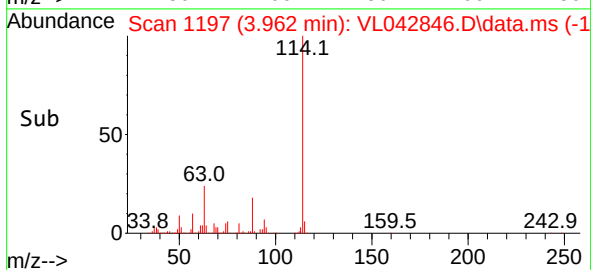
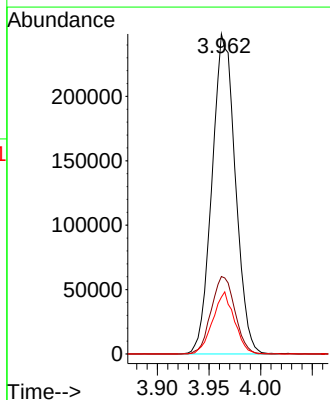
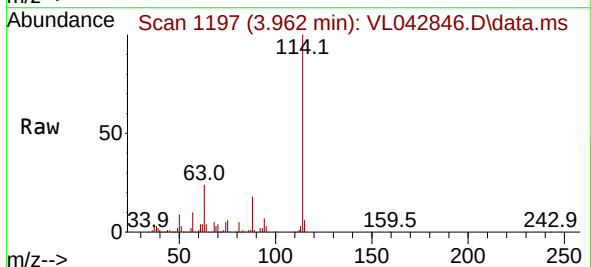
Manual Integrations
APPROVED

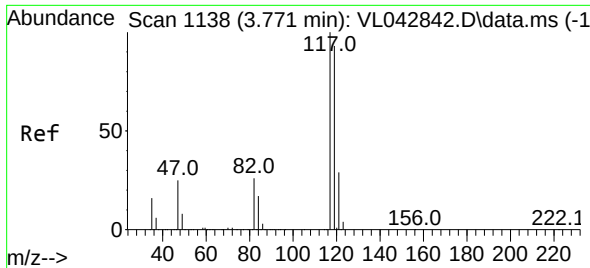
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

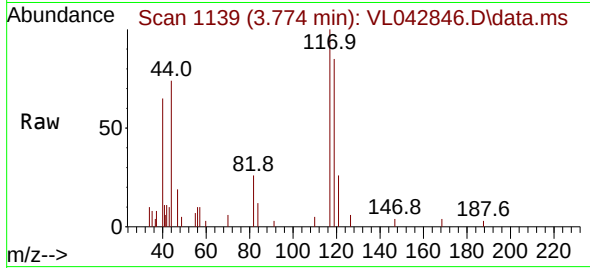
Tgt Ion:114 Resp: 390520
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 18.1 14.4 21.6





#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

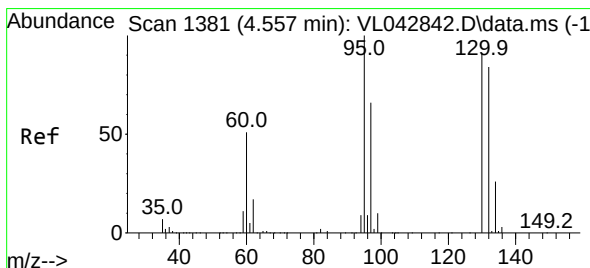
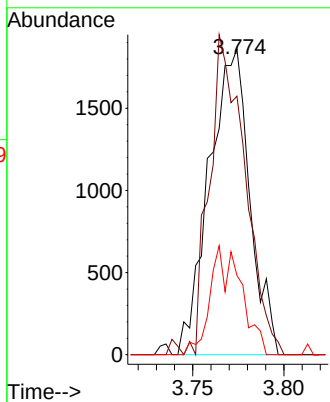
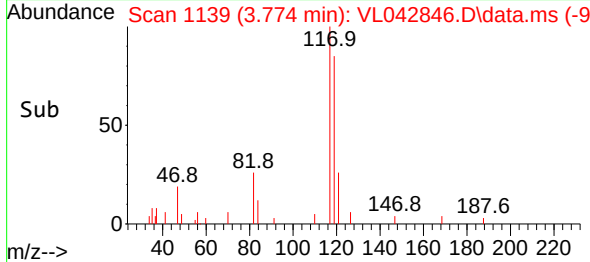
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



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

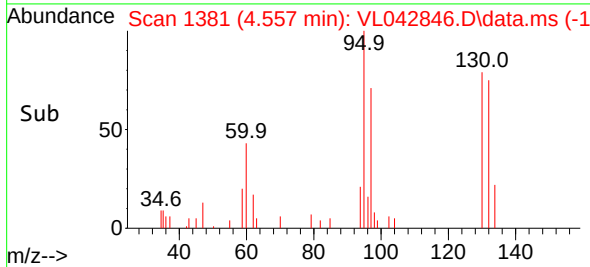
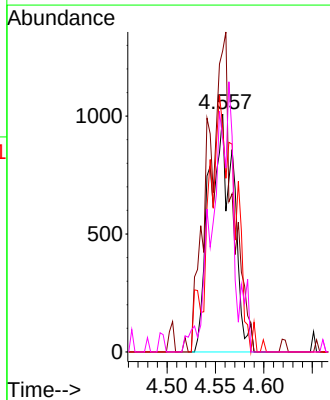
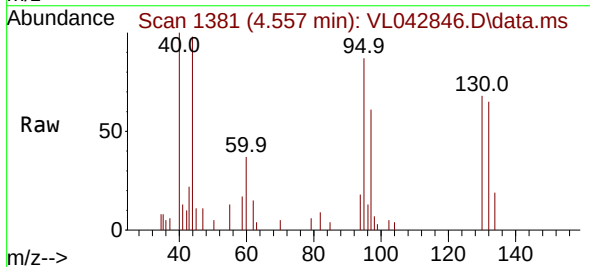
Manual Integrations
APPROVED

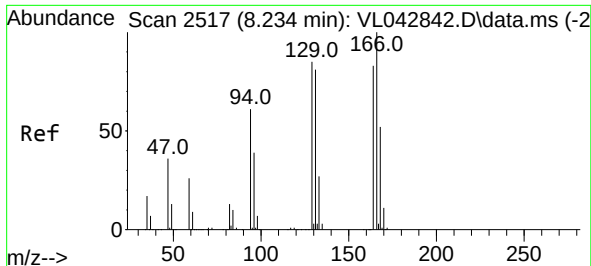
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

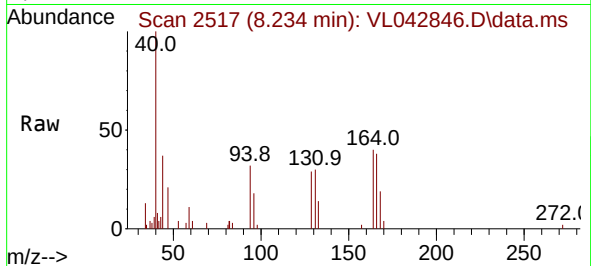
Tgt Ion:130 Resp: 1748
Ion Ratio Lower Upper
130 100
95 126.6 87.6 131.4
132 94.4 73.8 110.8
97 89.5 57.5 86.3#





#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

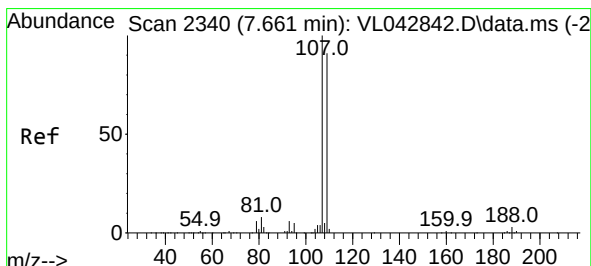
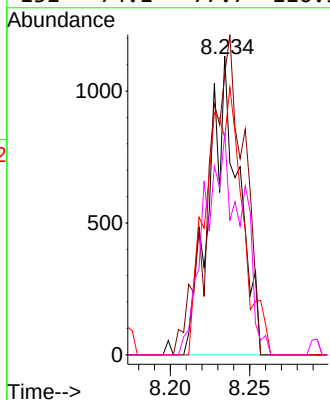
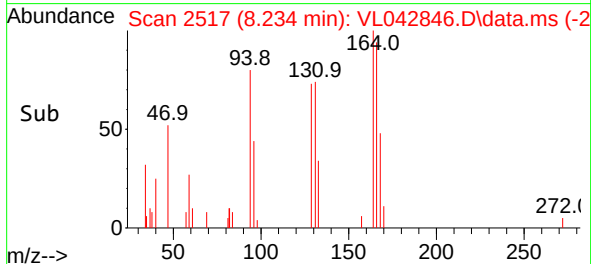
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1



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

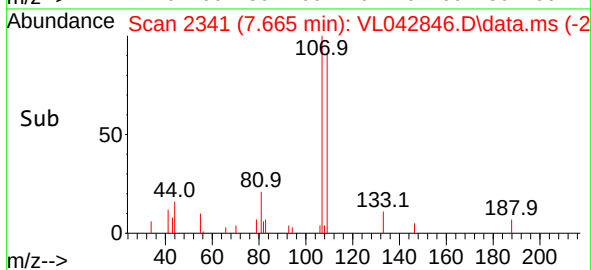
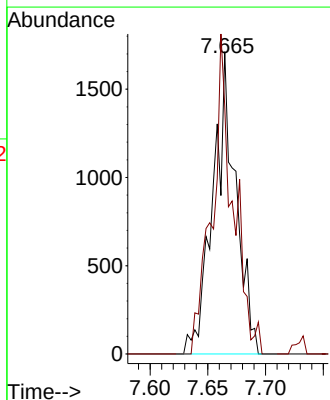
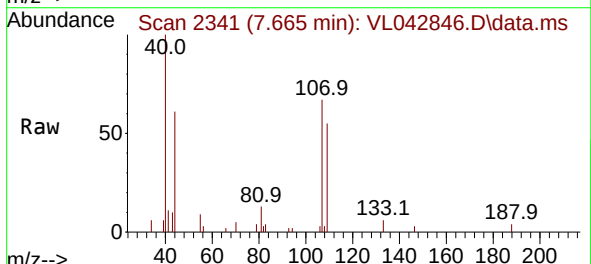
Manual Integrations
APPROVED

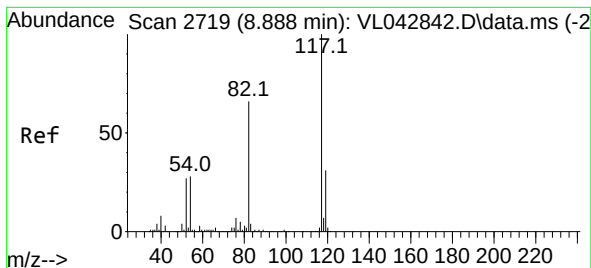
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

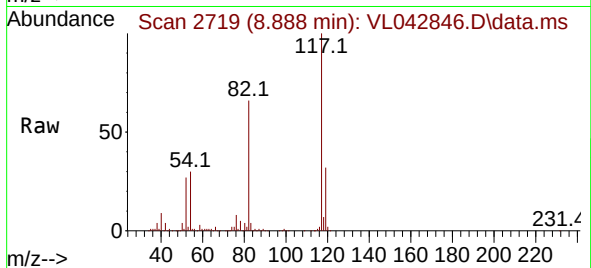
Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1



Tgt Ion: 117 Resp: 34507

Ion Ratio Lower Upper

117 100

82 64.3 54.6 81.8

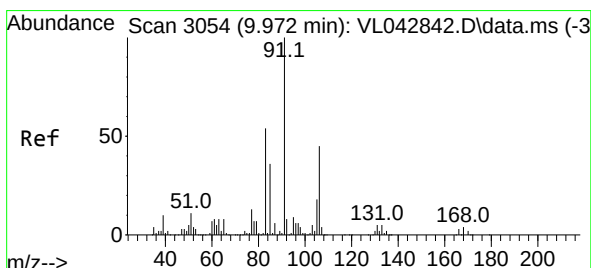
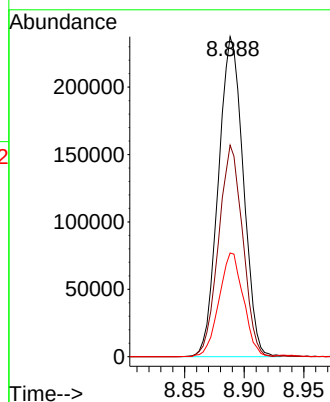
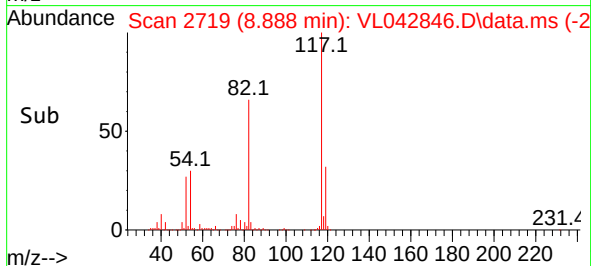
119 32.2 25.9 38.9

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

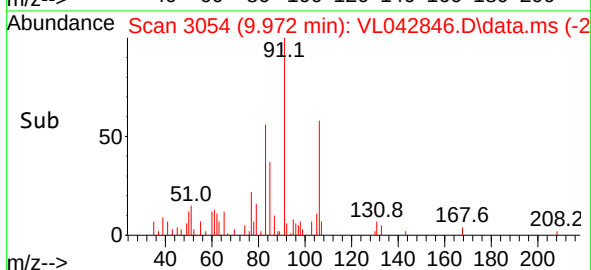
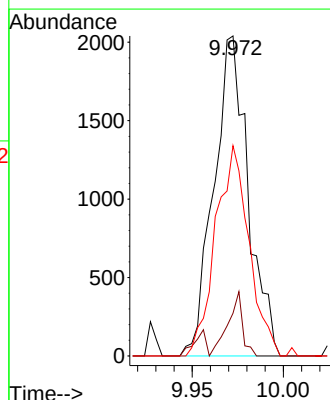
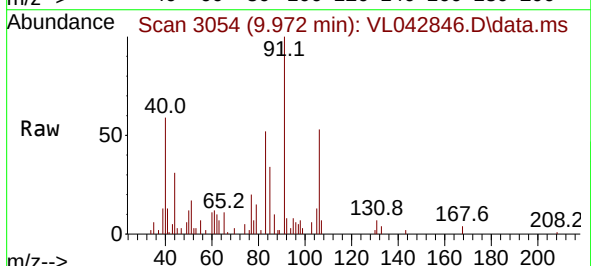
Tgt Ion: 83 Resp: 2672

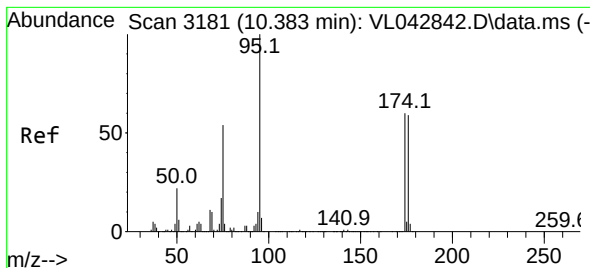
Ion Ratio Lower Upper

83 100

131 11.4 4.8 14.3

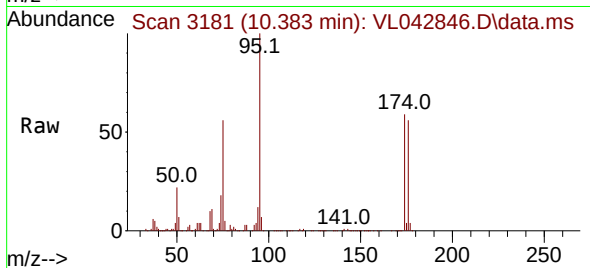
85 64.3 32.3 96.8





#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

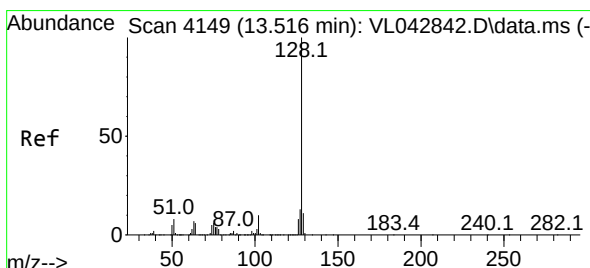
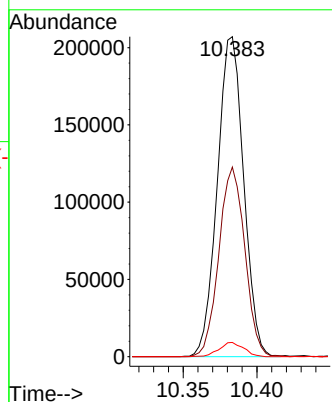
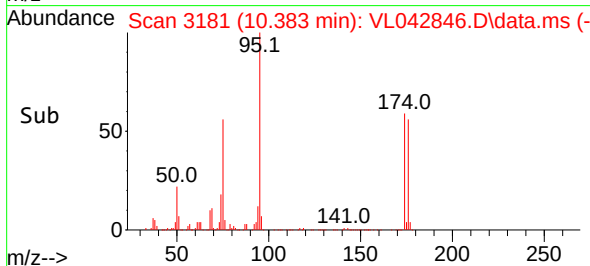
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



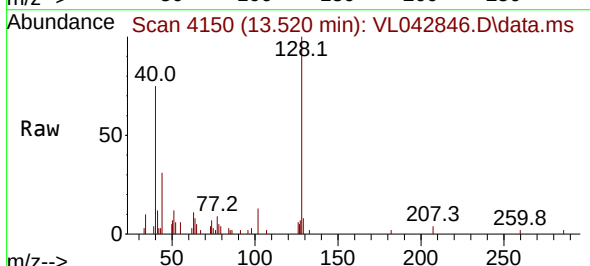
Tgt Ion: 95 Resp: 257439
Ion Ratio Lower Upper
95 100
174 58.3 48.4 72.6
175 4.2 3.8 5.8

Manual Integrations
APPROVED

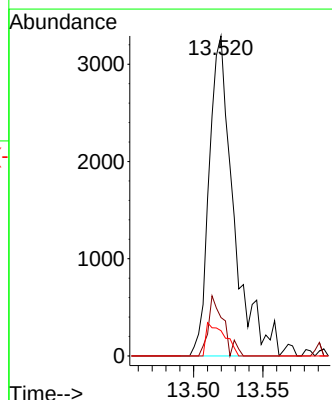
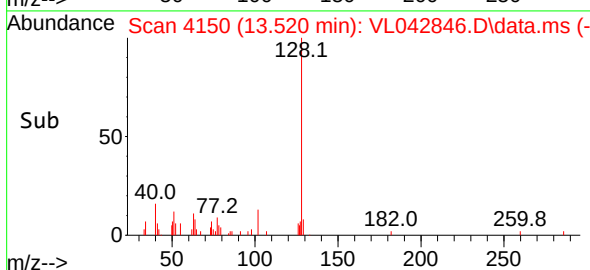
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

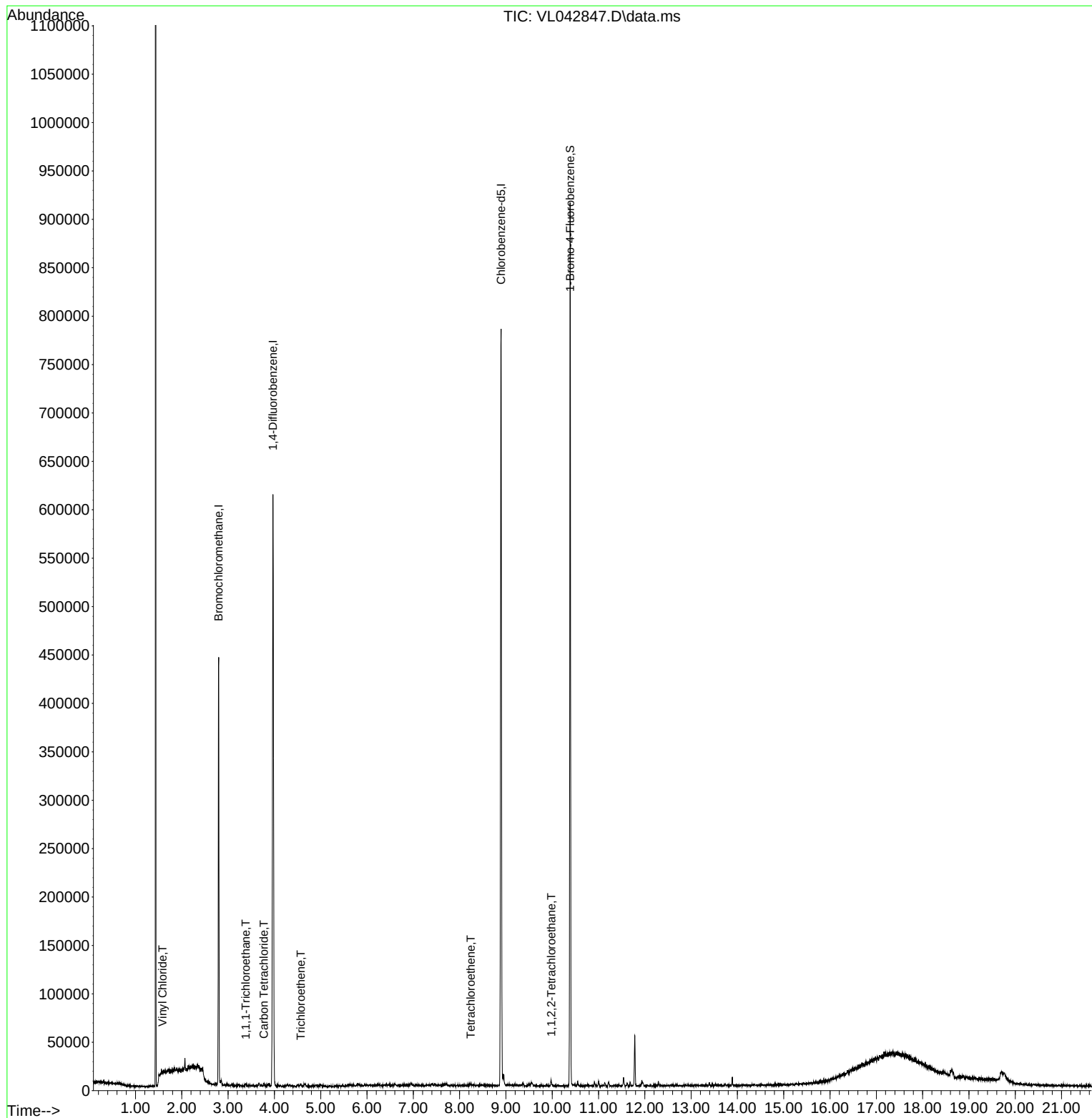
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Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

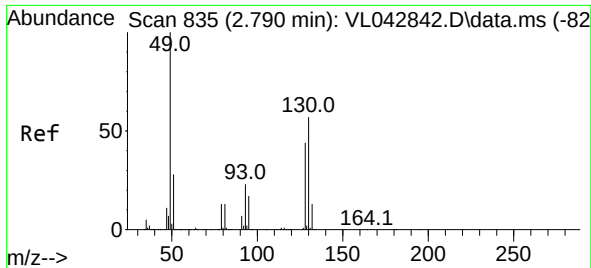
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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





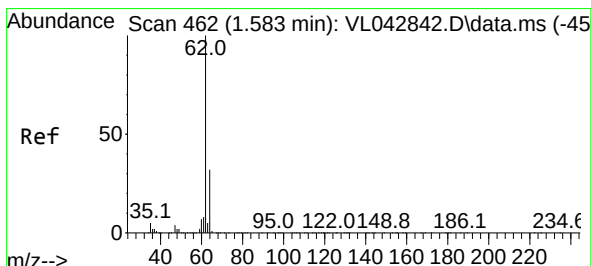
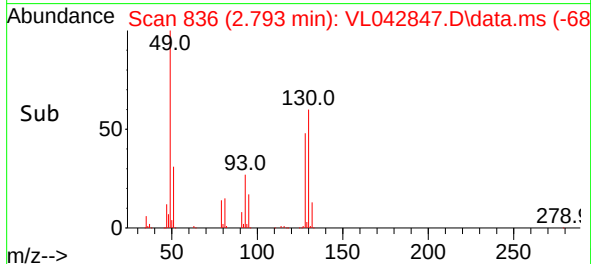
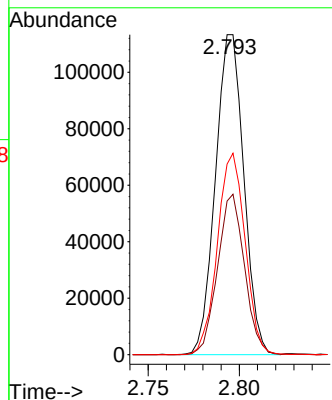
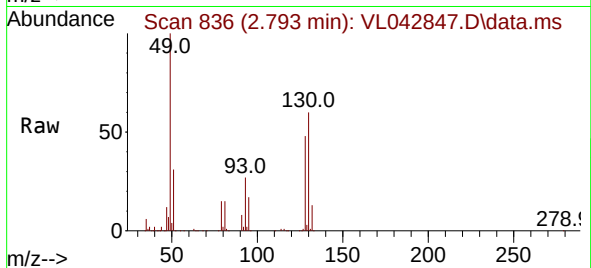
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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

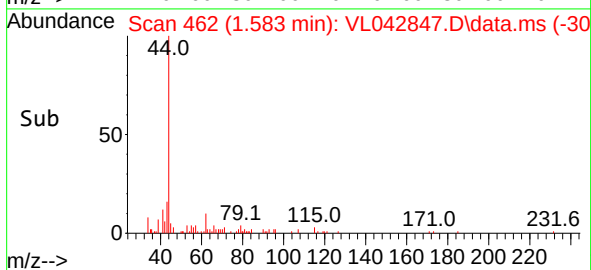
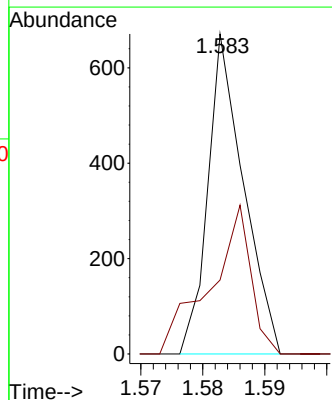
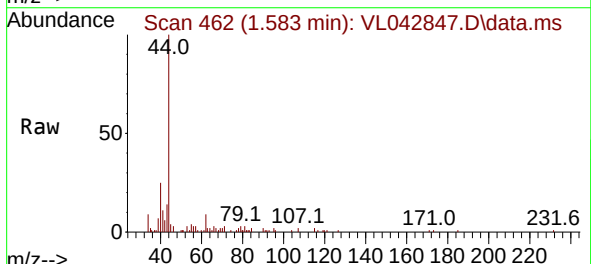
Manual Integrations
APPROVED

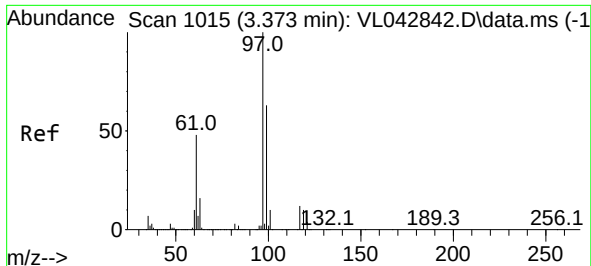
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

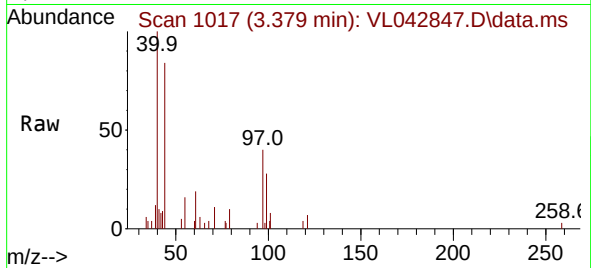
Tgt Ion: 62 Resp: 268
Ion Ratio Lower Upper
62 100
64 21.2 25.4 38.2#





#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

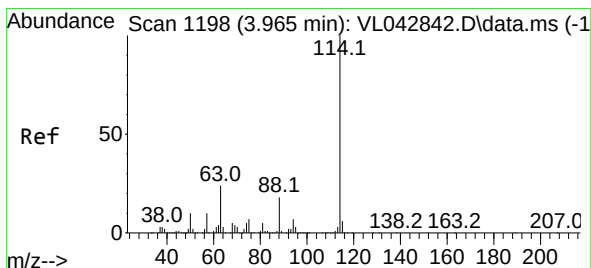
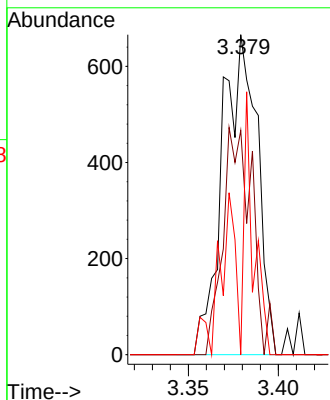
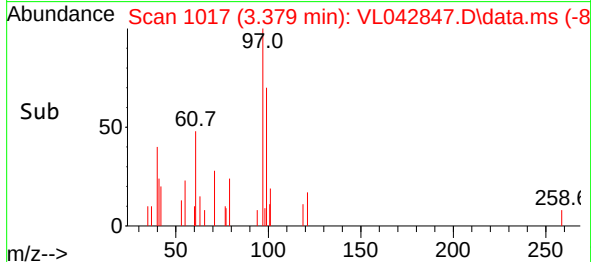
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



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

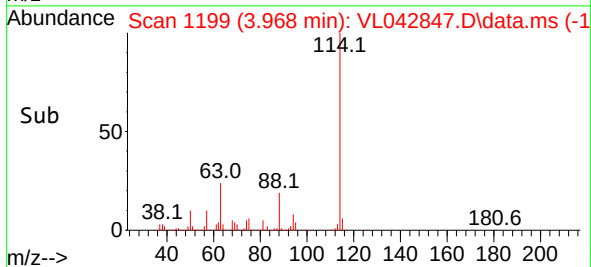
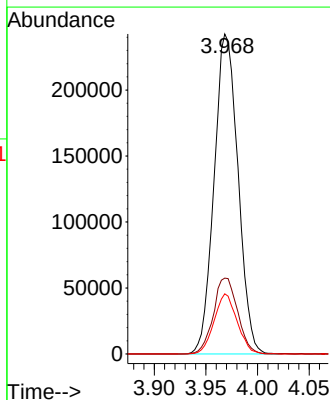
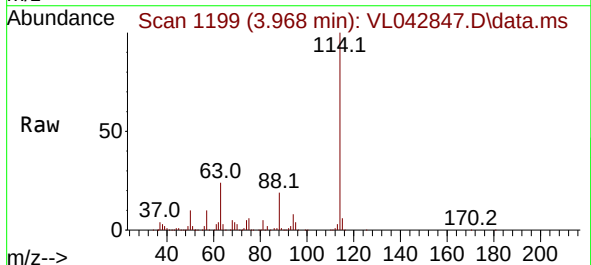
Manual Integrations
APPROVED

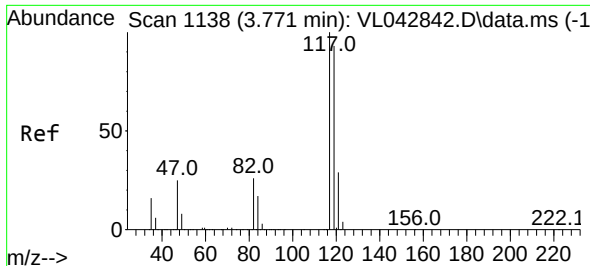
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

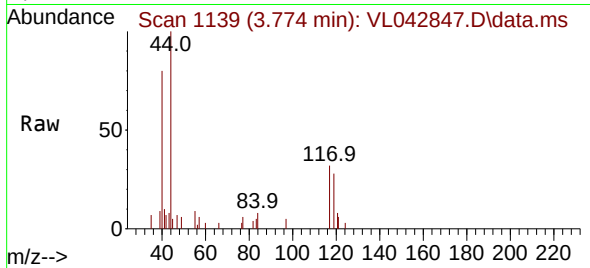
Tgt Ion:114 Resp: 390076
Ion Ratio Lower Upper
114 100
63 24.1 19.7 29.5
88 18.1 14.4 21.6





#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

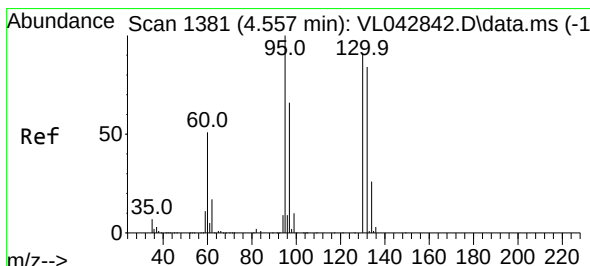
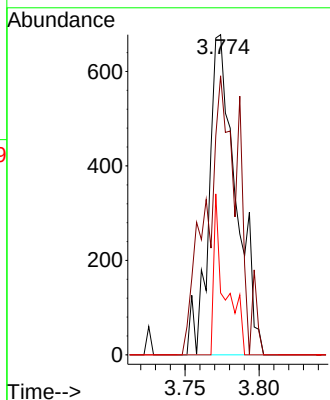
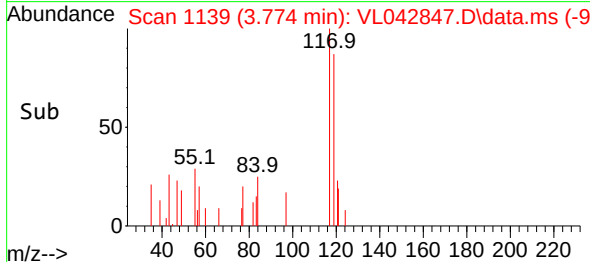
Instrument : MSVOA_L
ClientSampleId : VSTDICC0.03



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

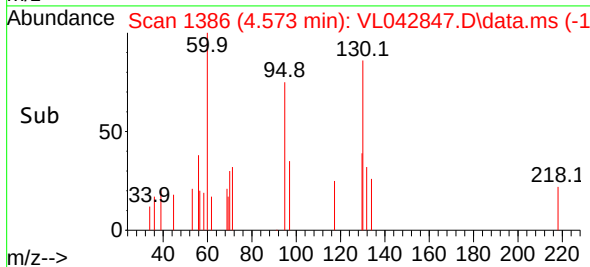
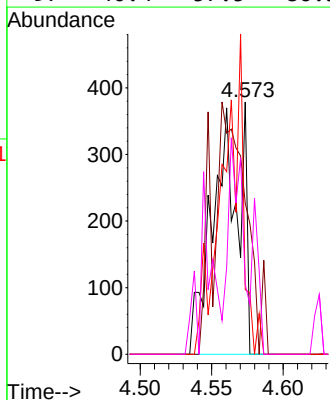
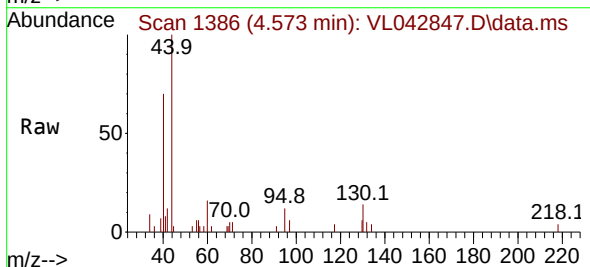
Manual Integrations
APPROVED

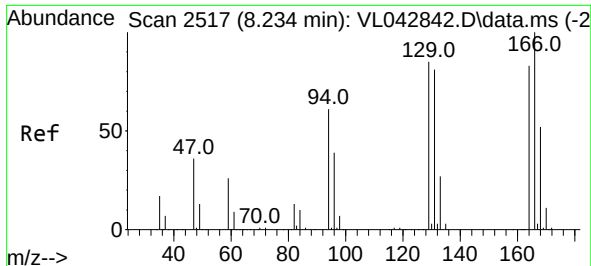
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

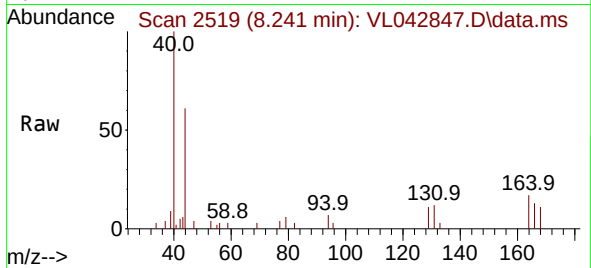
Tgt Ion:130 Resp: 487
Ion Ratio Lower Upper
130 100
95 87.3 87.6 131.4#
132 37.3 73.8 110.8#
97 40.4 57.5 86.3#





#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 8.241 min Scan# 2517
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

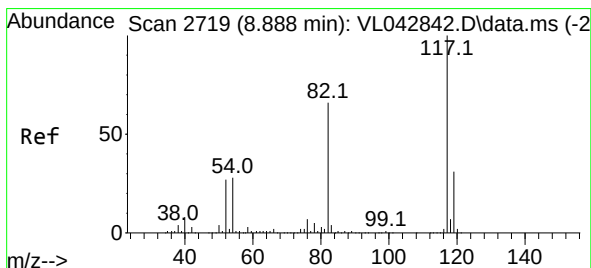
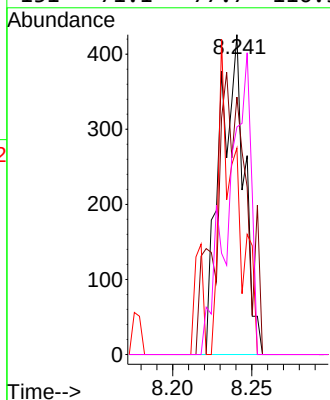
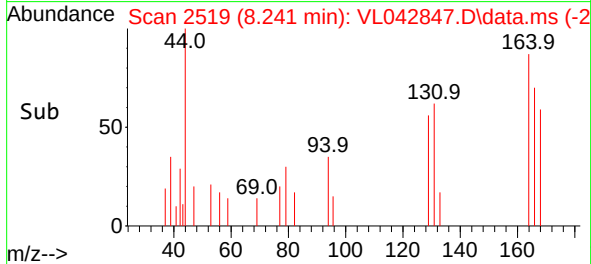
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



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

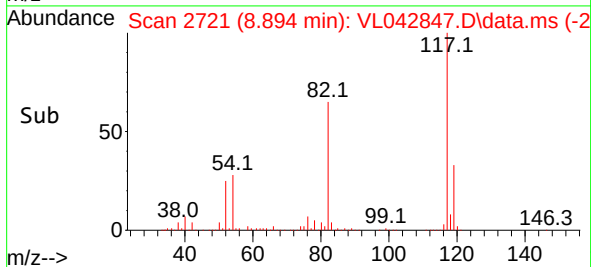
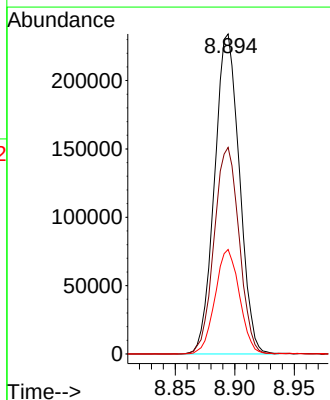
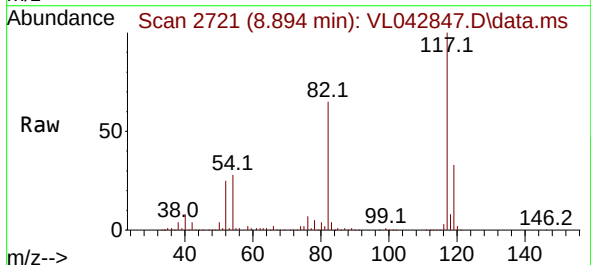
Manual Integrations
APPROVED

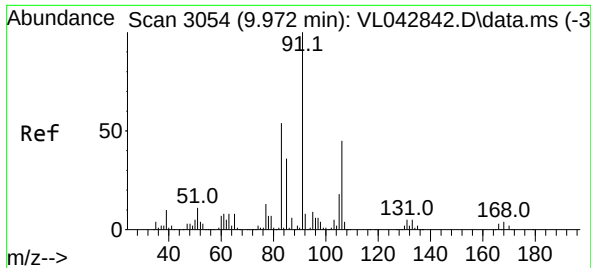
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

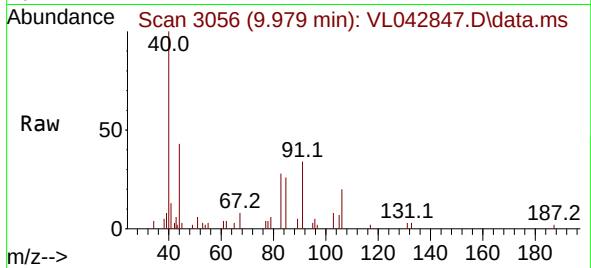
Tgt Ion:117 Resp: 339700
Ion Ratio Lower Upper
117 100
82 65.1 54.6 81.8
119 32.2 25.9 38.9





#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

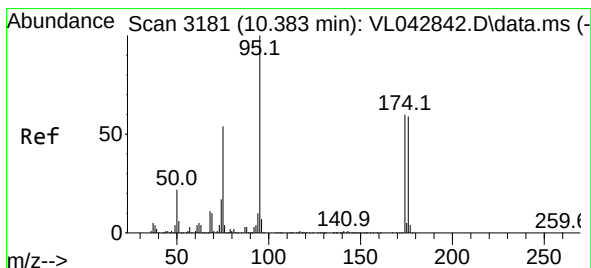
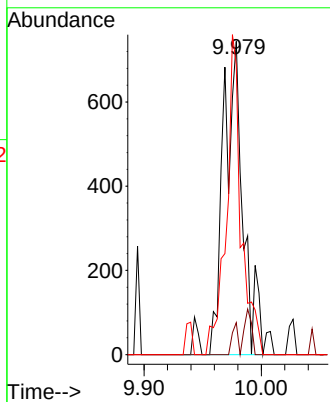
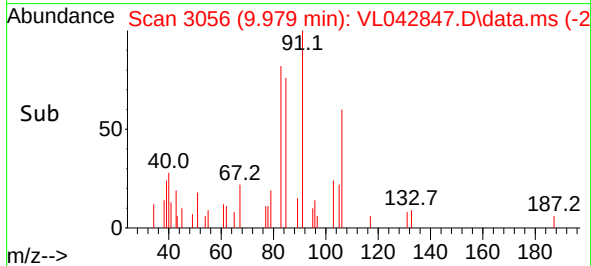
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



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

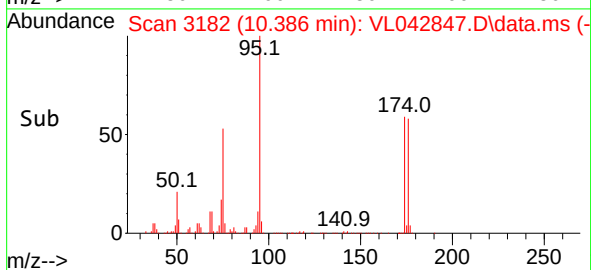
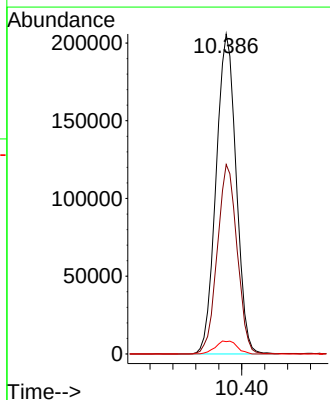
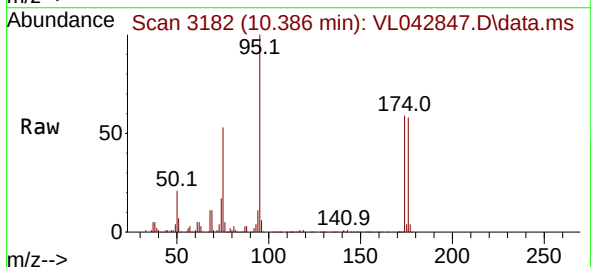
Manual Integrations
APPROVED

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

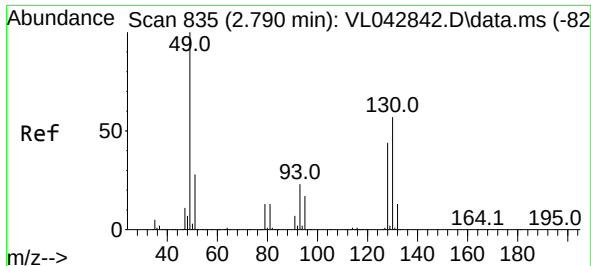
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

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

Response via : Initial Calibration

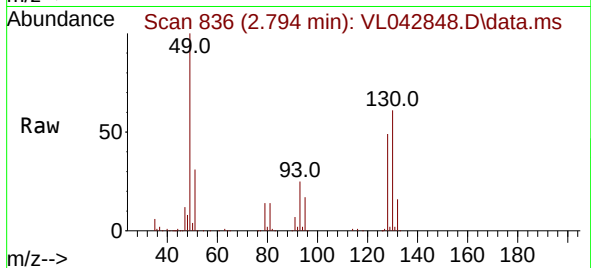
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	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# 81
Delta R.T. 0.004 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

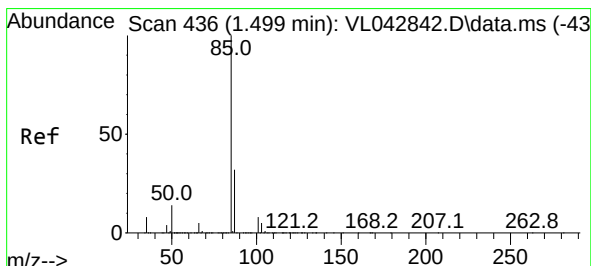
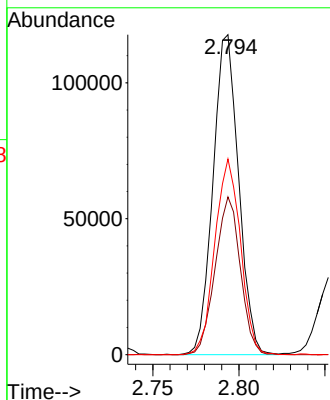
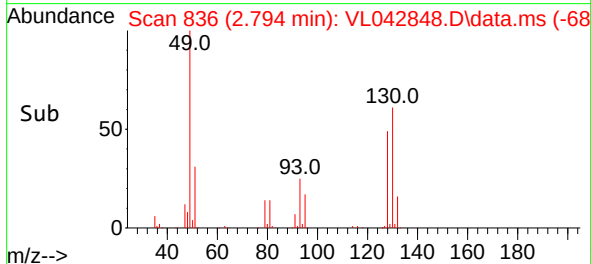
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

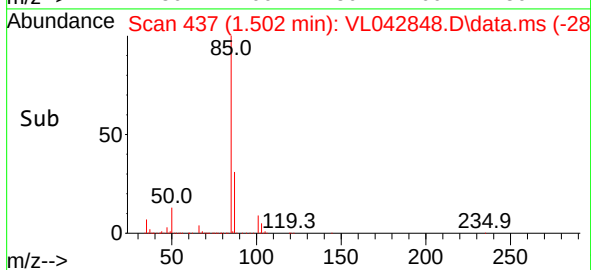
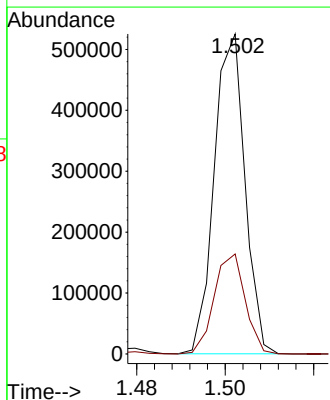
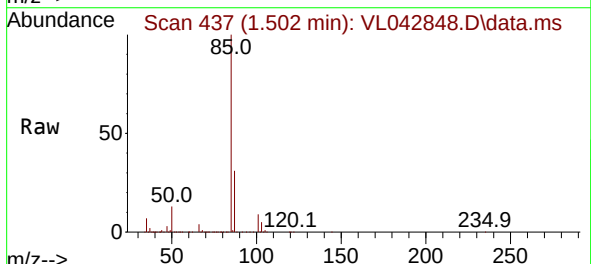
Manual Integrations
APPROVED

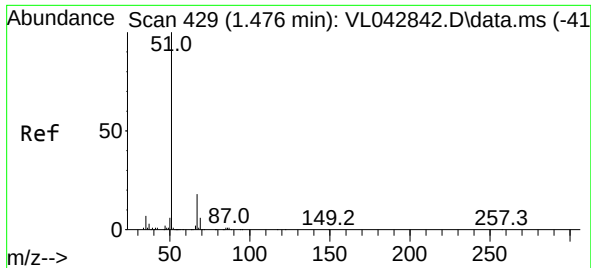
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





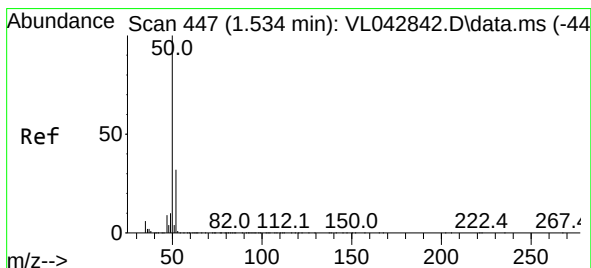
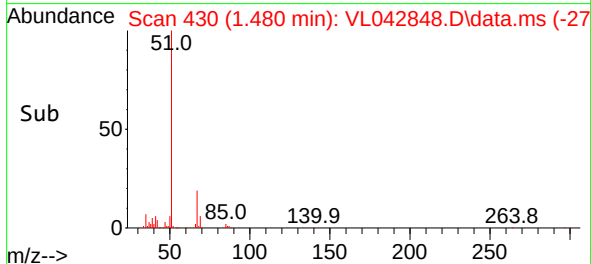
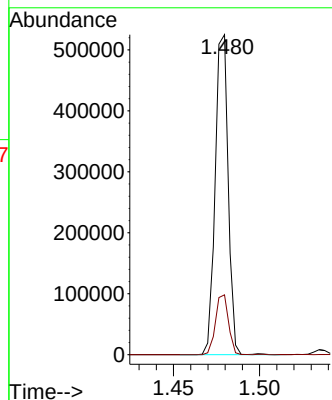
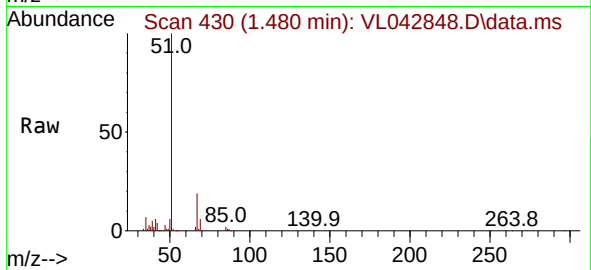
#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 275350
Ion Ratio Lower Upper
51 100
67 18.9 14.9 22.3

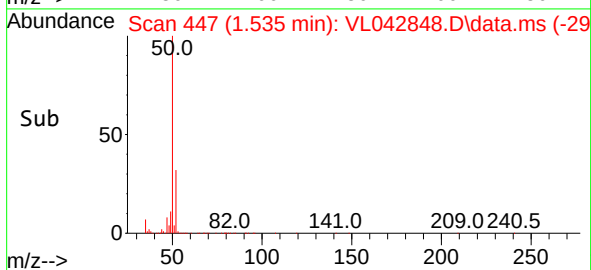
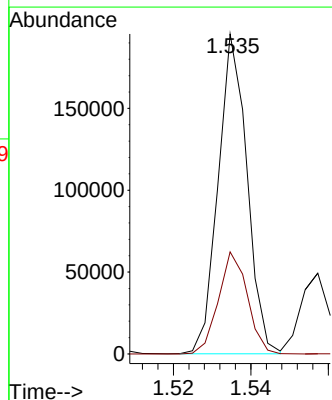
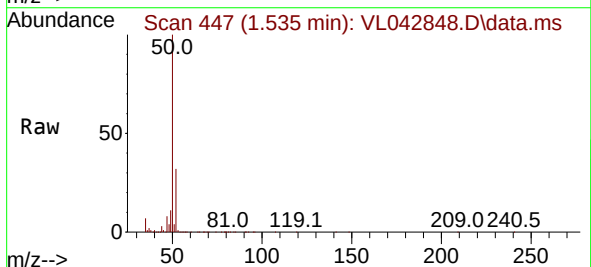
Manual Integrations
APPROVED

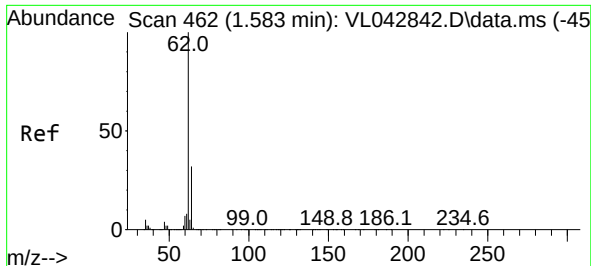
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





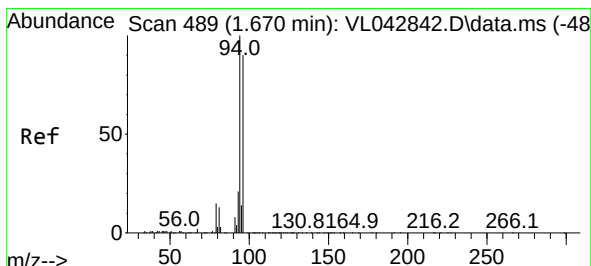
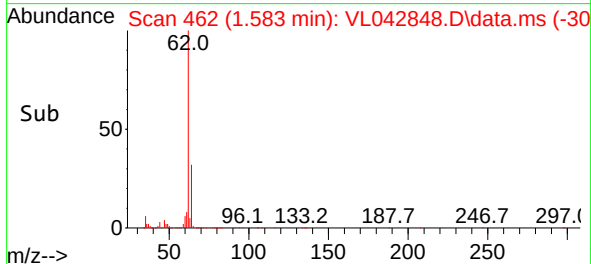
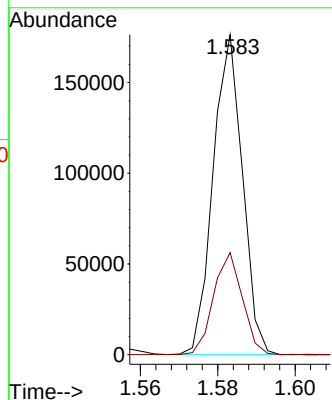
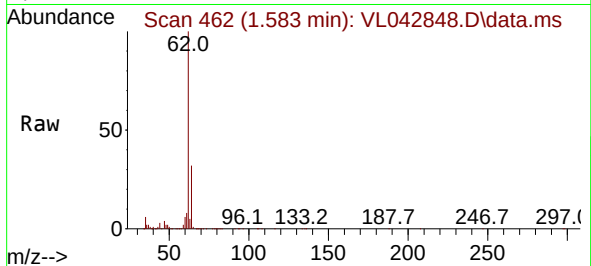
#5
 Vinyl Chloride
 Concen: 13.053 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 92812
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

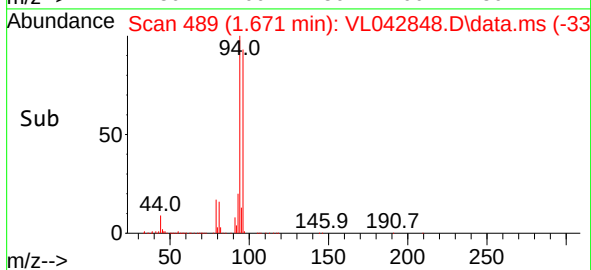
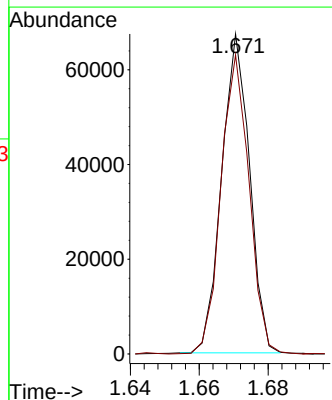
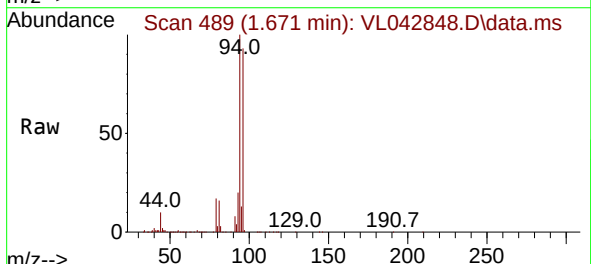
Manual Integrations
 APPROVED

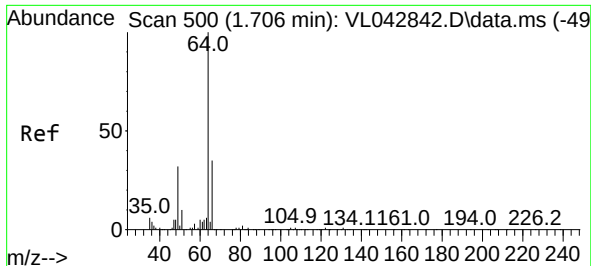
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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

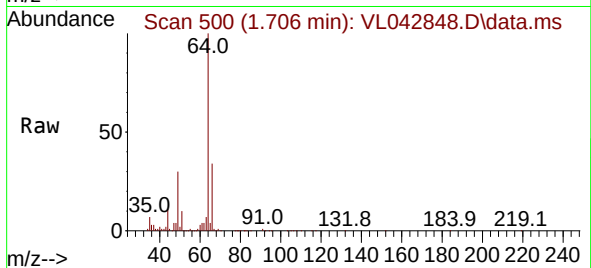
Tgt Ion: 94 Resp: 37740
 Ion Ratio Lower Upper
 94 100
 96 93.7 72.1 108.1





#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

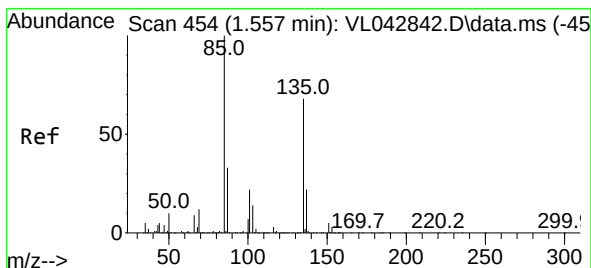
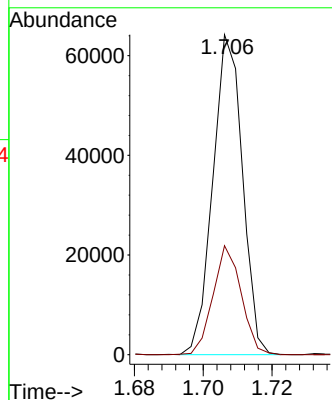
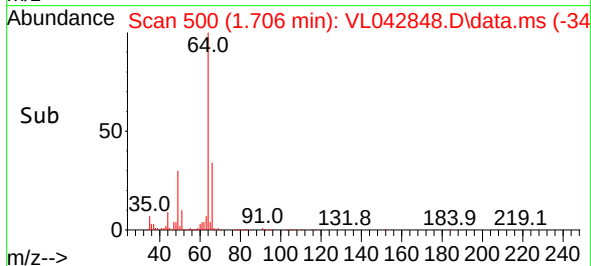
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



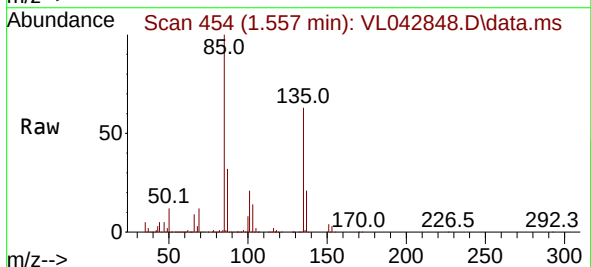
Tgt Ion: 64 Resp: 38398
Ion Ratio Lower Upper
64 100
66 34.1 28.6 42.8

Manual Integrations
APPROVED

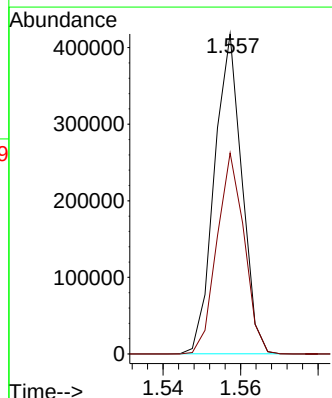
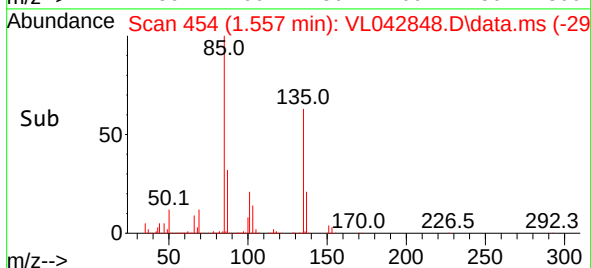
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

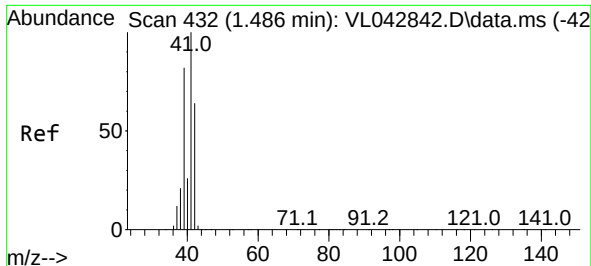


#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



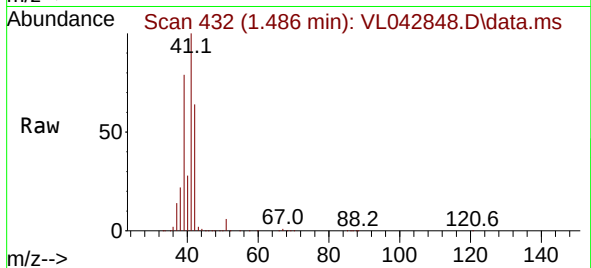
Tgt Ion: 85 Resp: 205386
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#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

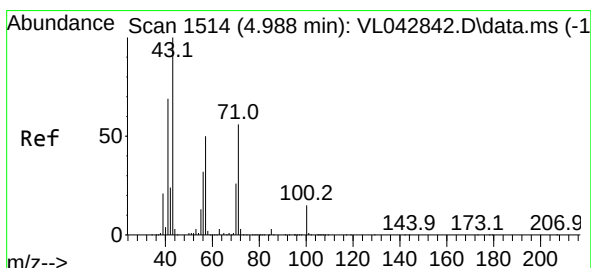
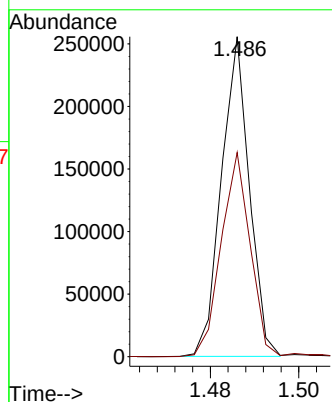
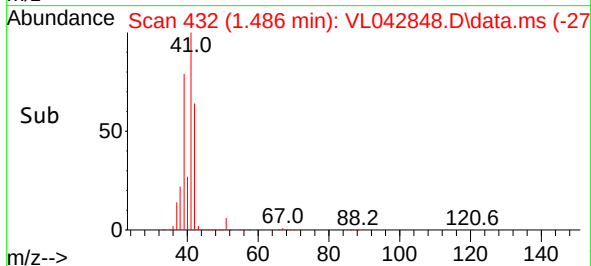
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



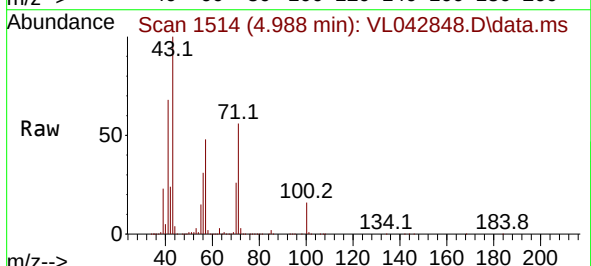
Tgt Ion: 41 Resp: 111824
 Ion Ratio Lower Upper
 41 100
 42 67.0 53.0 79.4

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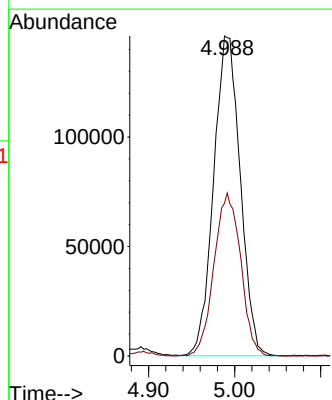
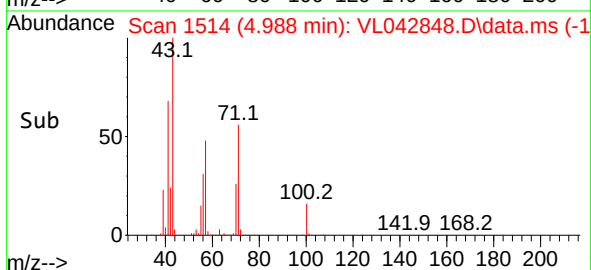
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

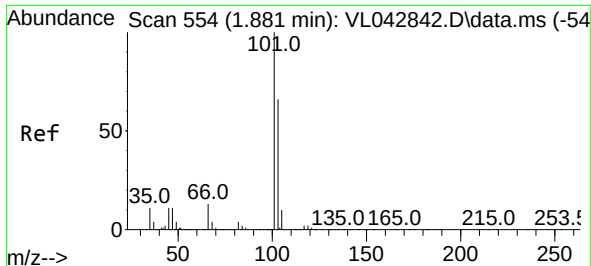


#10
 Heptane
 Concen: 13.742 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



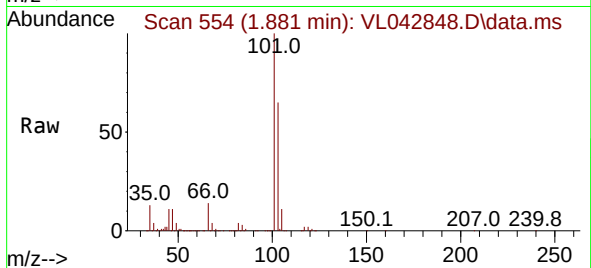
Tgt Ion: 43 Resp: 313734
 Ion Ratio Lower Upper
 43 100
 57 51.0 41.4 62.0





#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

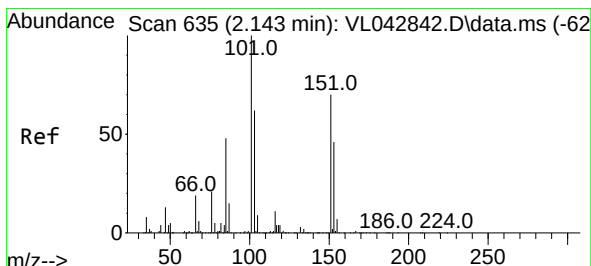
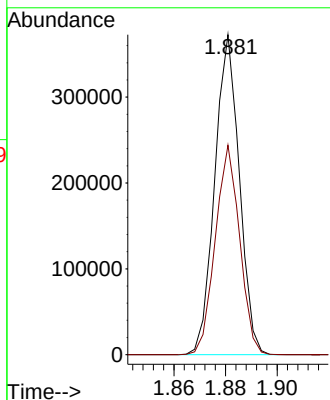
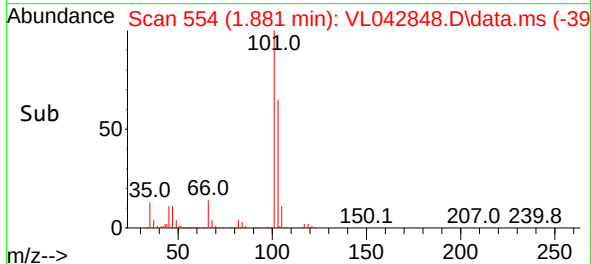
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



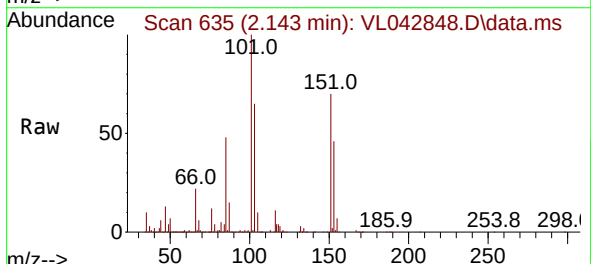
Tgt Ion:101 Resp: 246354
Ion Ratio Lower Upper
101 100
103 65.5 52.5 78.7

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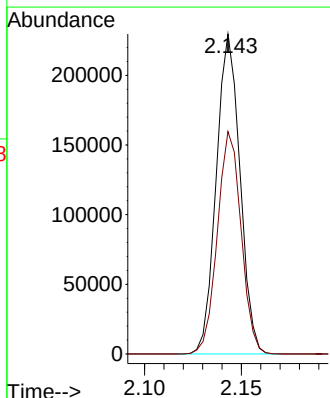
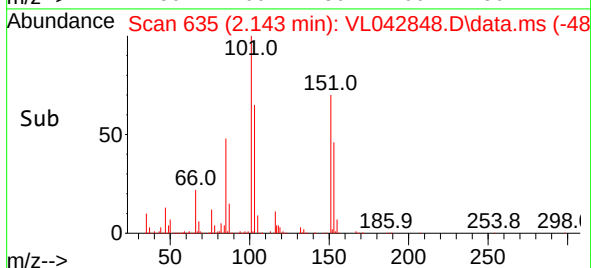
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

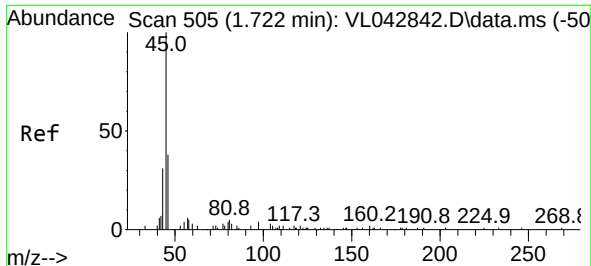


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.877 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



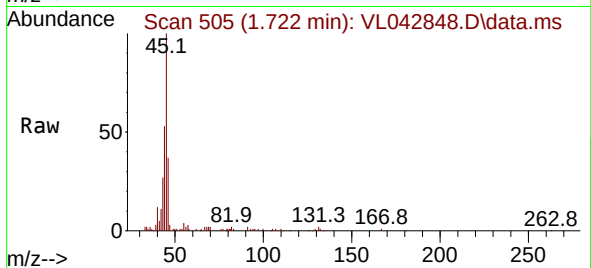
Tgt Ion:101 Resp: 195231
Ion Ratio Lower Upper
101 100
151 69.7 56.4 84.6





#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

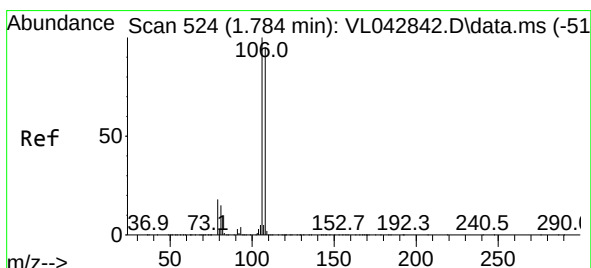
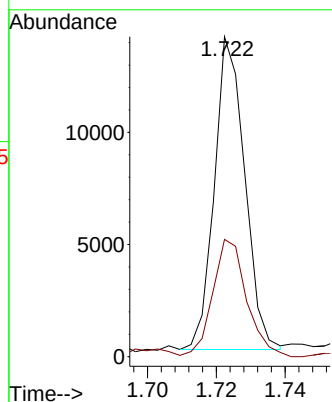
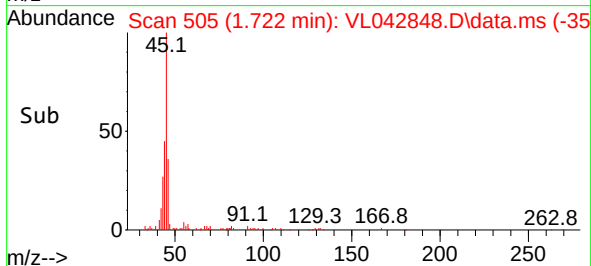
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



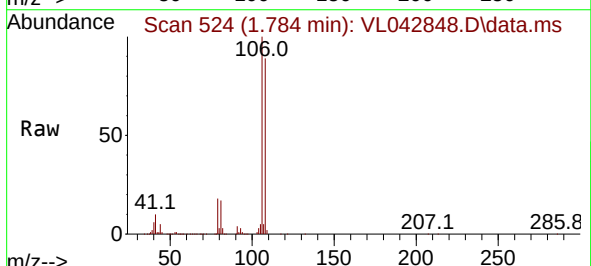
Tgt Ion: 45 Resp: 8534
Ion Ratio Lower Upper
45 100
46 42.3 17.5 69.9

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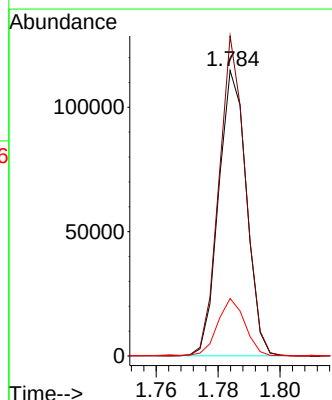
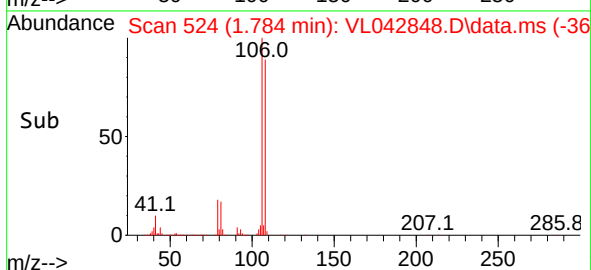
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

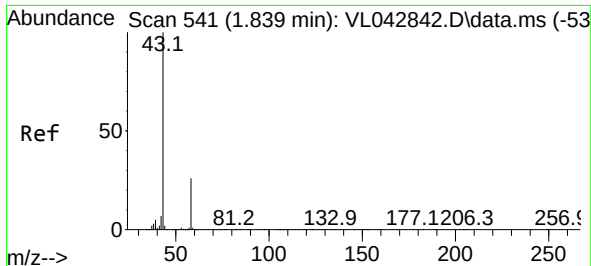


#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



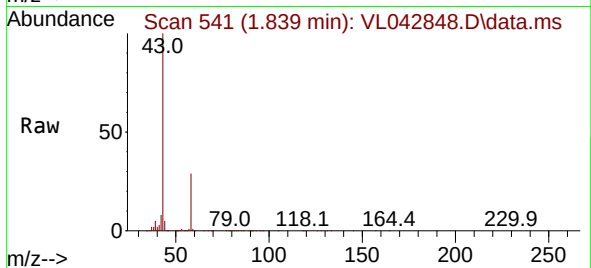
Tgt Ion:108 Resp: 71671
Ion Ratio Lower Upper
108 100
106 106.0 85.1 127.7
79 19.4 16.3 24.5





#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

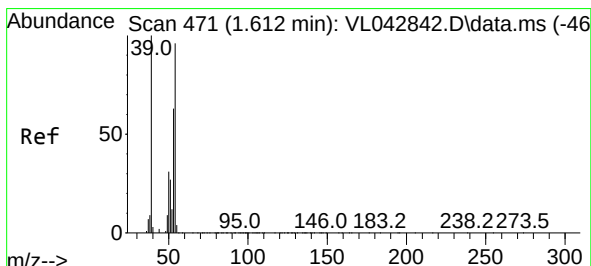
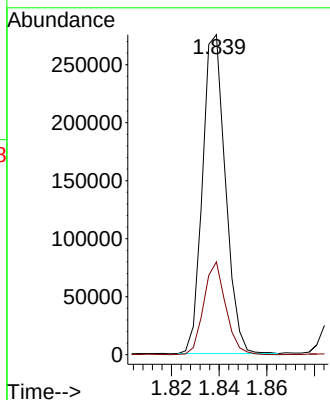
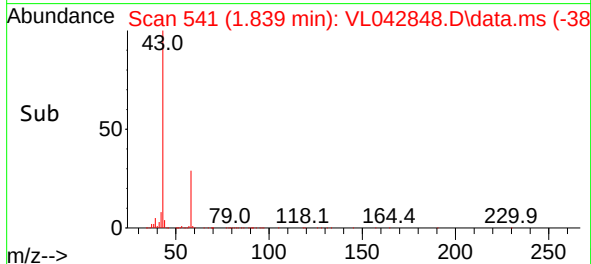
Instrument :
MSVOA_L
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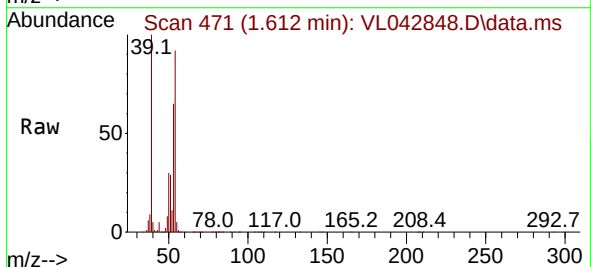
Tgt Ion: 43 Resp: 184110
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

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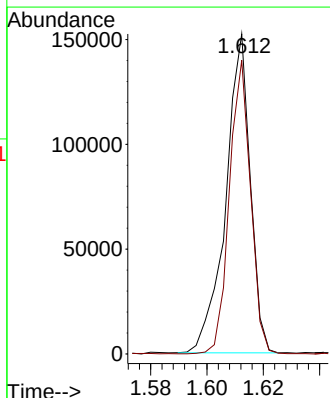
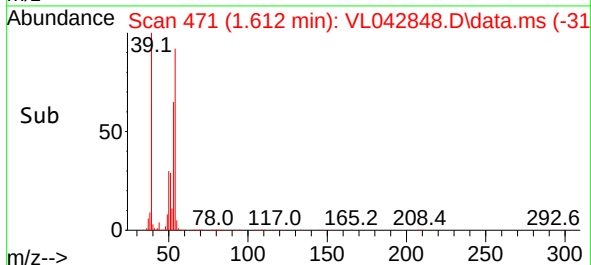
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

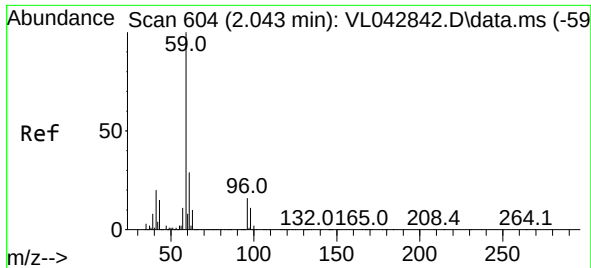


#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 39 Resp: 92068
Ion Ratio Lower Upper
39 100
54 79.7 63.6 95.4





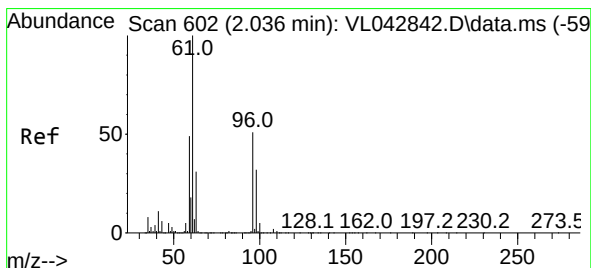
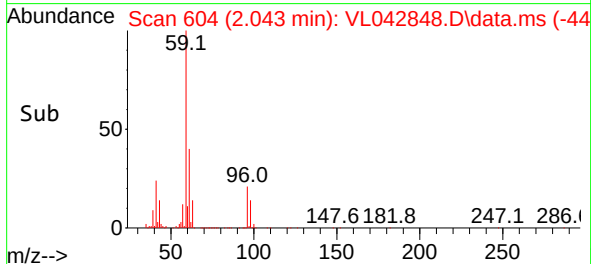
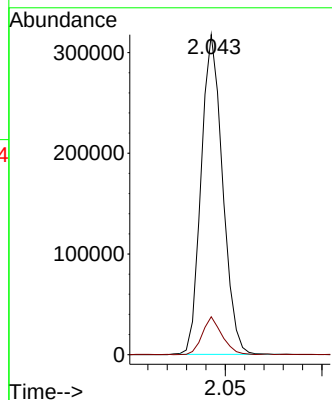
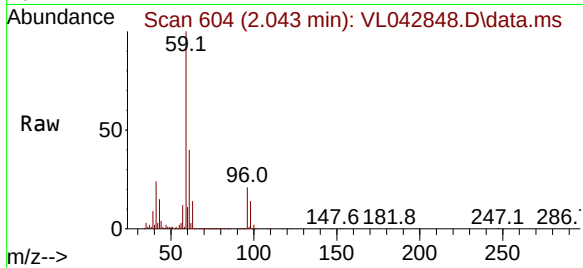
#17
tert-Butyl alcohol
Concen: 12.765 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 24444
Ion Ratio Lower Upper
59 100
57 11.3 9.0 13.4

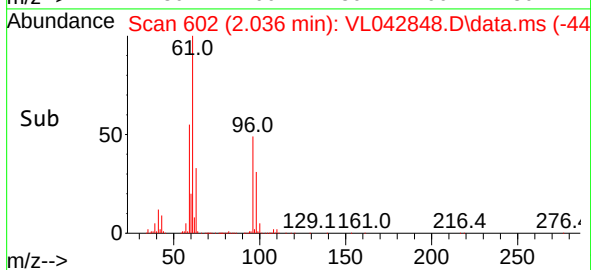
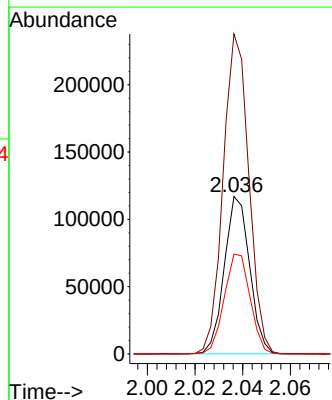
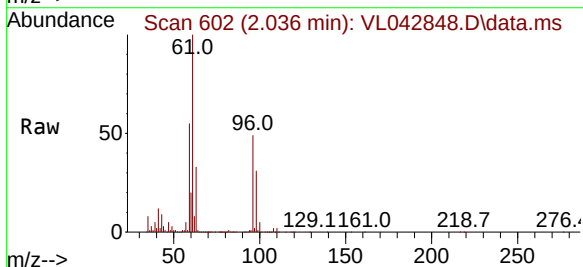
Manual Integrations
APPROVED

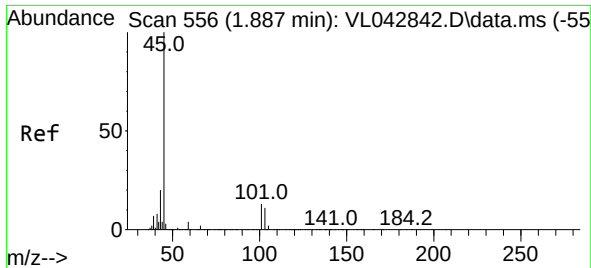
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

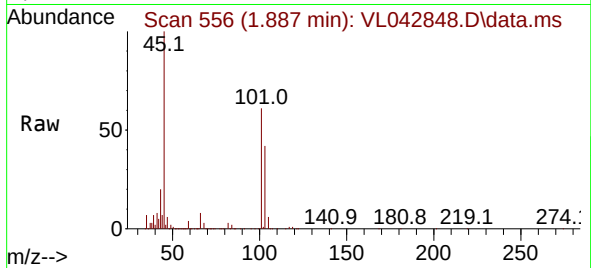
Tgt Ion: 96 Resp: 86349
Ion Ratio Lower Upper
96 100
61 203.3 158.2 237.4
98 63.3 50.6 76.0





#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

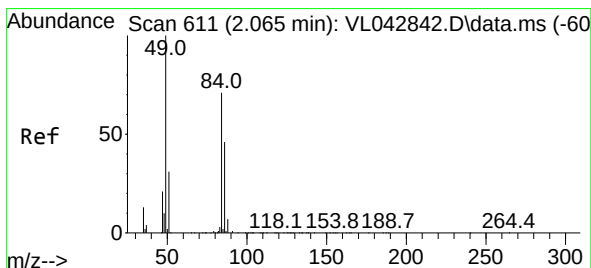
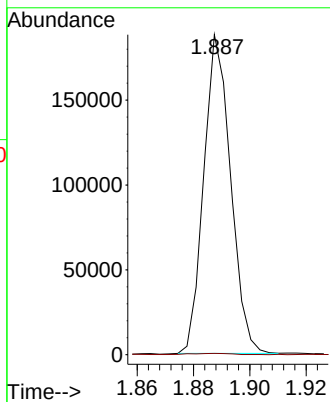
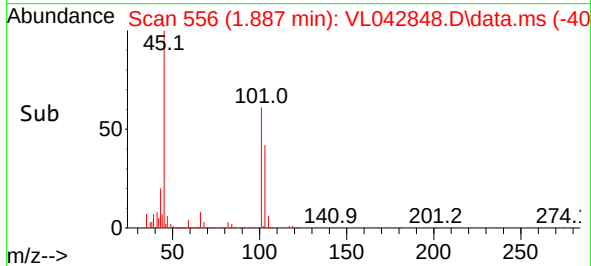
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



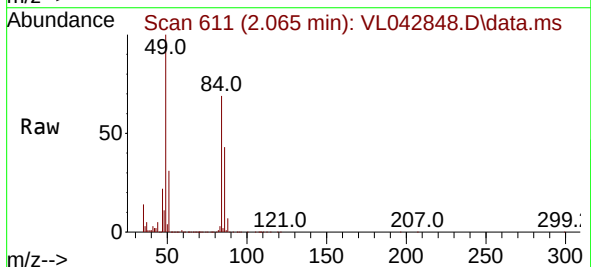
Tgt Ion: 45 Resp: 124270
Ion Ratio Lower Upper
45 100
58 41.3 32.7 49.1

Manual Integrations
APPROVED

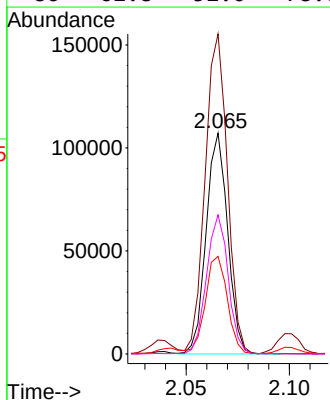
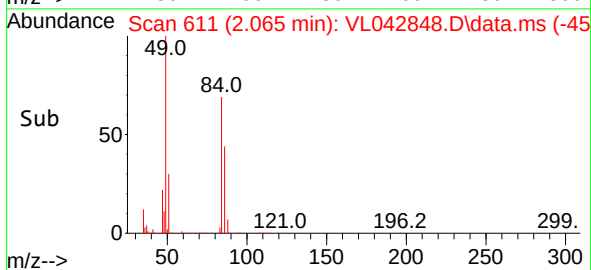
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

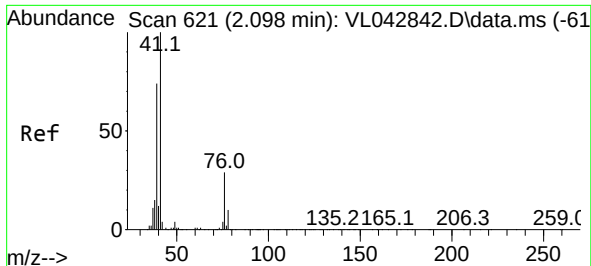


#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



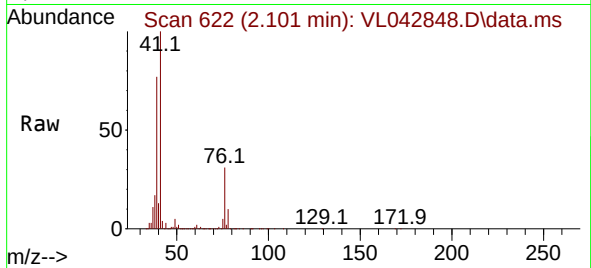
Tgt Ion: 84 Resp: 77749
Ion Ratio Lower Upper
84 100
49 143.1 112.3 168.5
51 42.5 36.0 54.0
86 62.8 52.0 78.0





#21
 Allyl Chloride
 Concen: 13.703 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

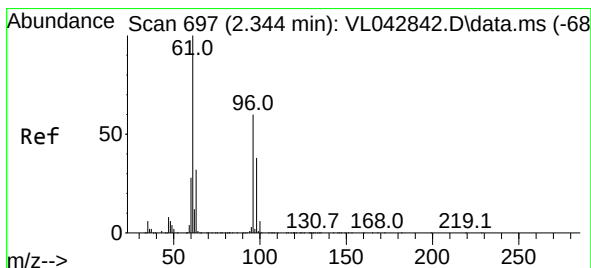
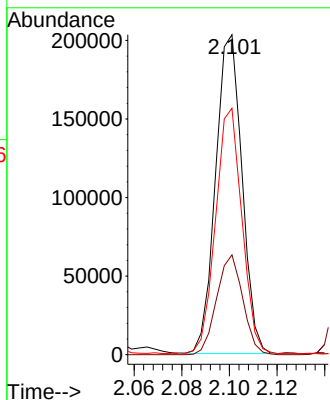
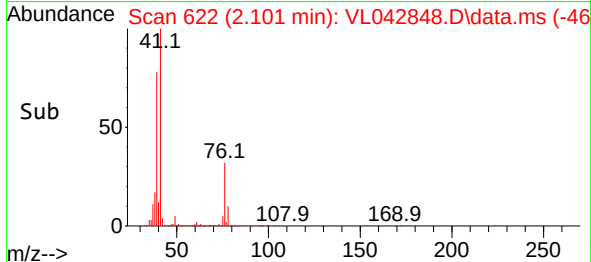
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



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

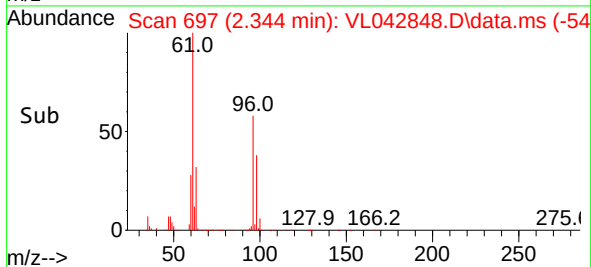
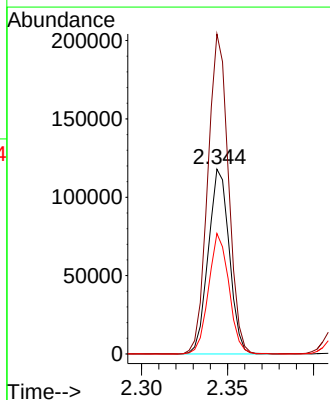
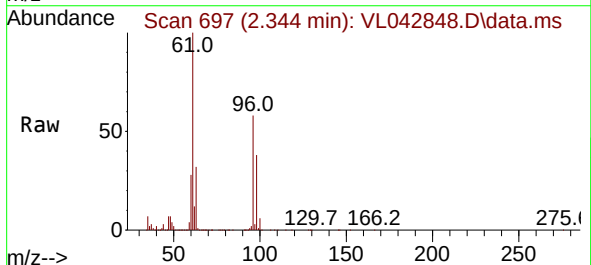
Manual Integrations
 APPROVED

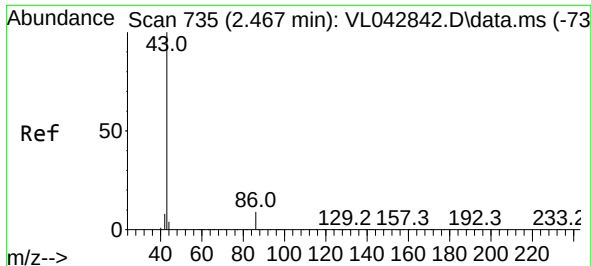
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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





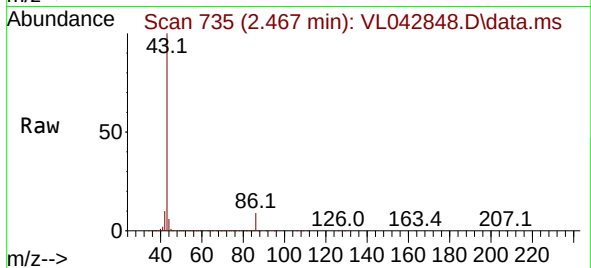
#23
 Vinyl Acetate
 Concen: 14.557 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



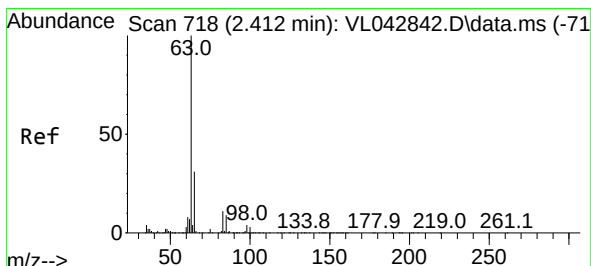
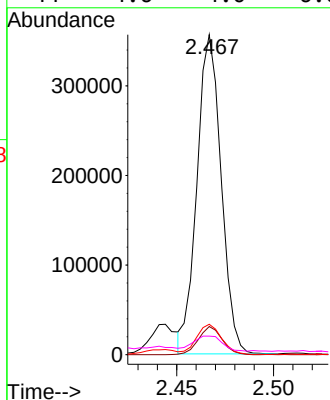
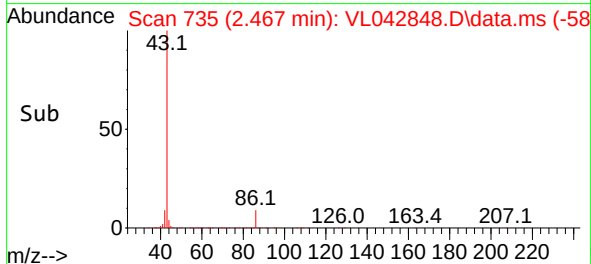
Tgt Ion: 43 Resp: 309230

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

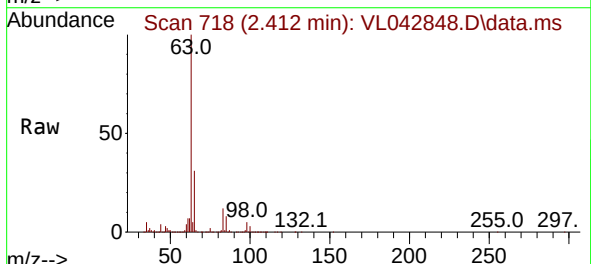
Manual Integrations

APPROVED

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

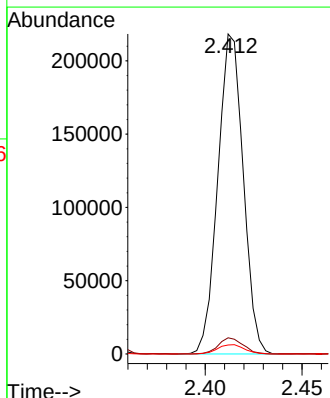
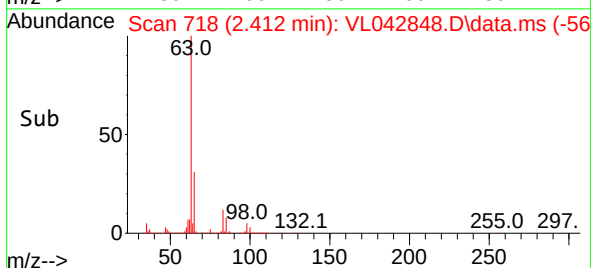


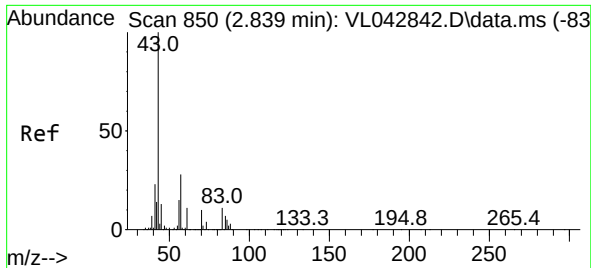
#24
 1,1-Dichloroethane
 Concen: 13.944 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



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





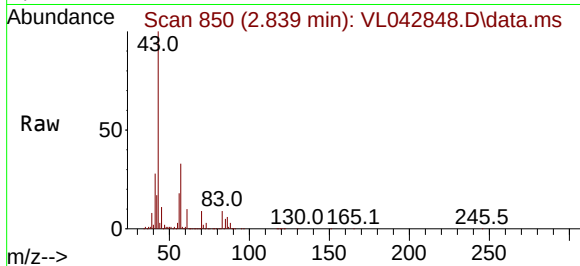
#25
Ethyl Acetate
Concen: 13.653 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

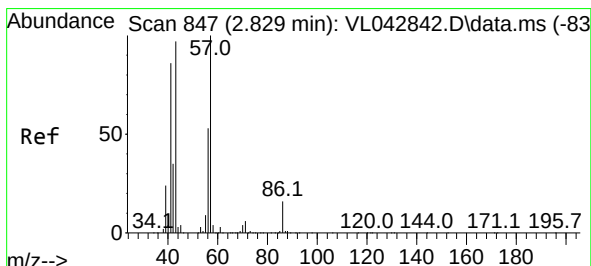
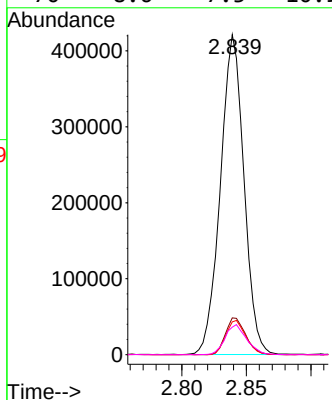
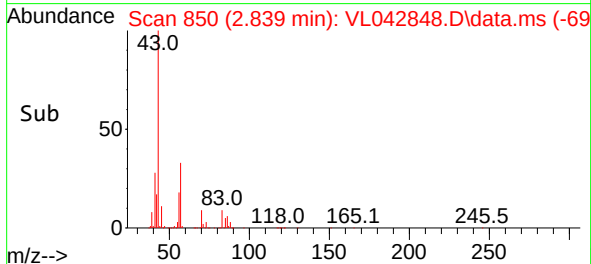


Tgt Ion: 43 Resp: 533600
Ion Ratio Lower Upper
43 100
45 10.0 8.1 12.1
61 9.2 7.4 11.2
70 8.6 7.3 10.9

Manual Integrations

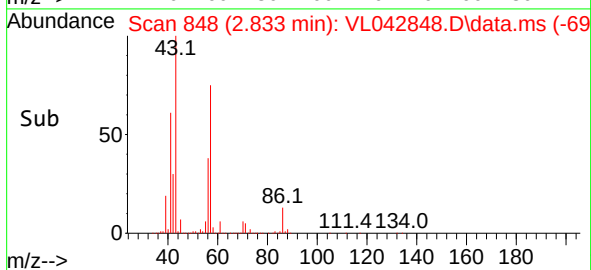
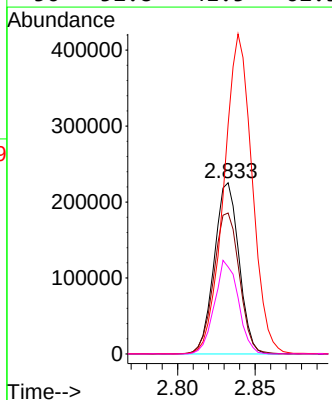
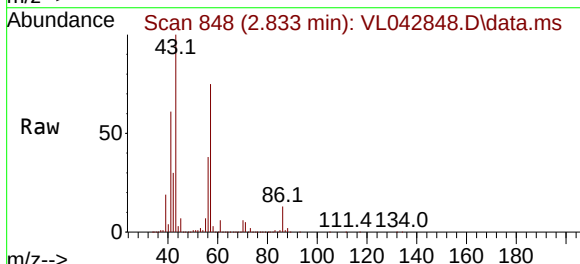
APPROVED

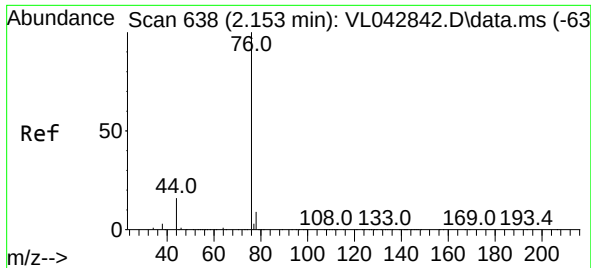
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

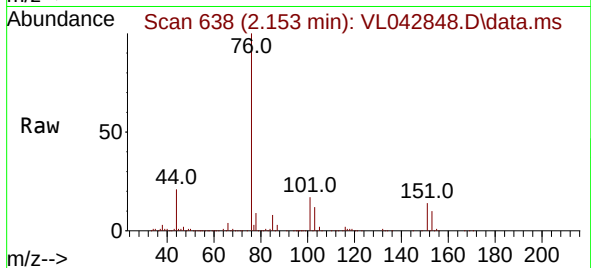
Tgt Ion: 57 Resp: 250189
Ion Ratio Lower Upper
57 100
41 85.8 68.6 103.0
43 214.3 168.5 252.7
56 52.8 41.5 62.3





#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

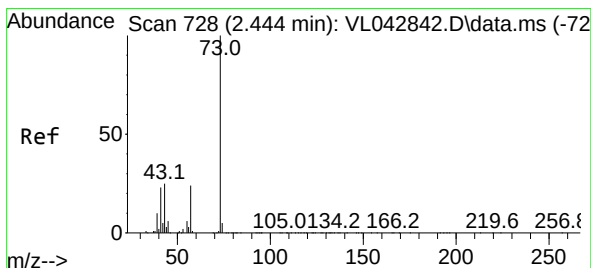
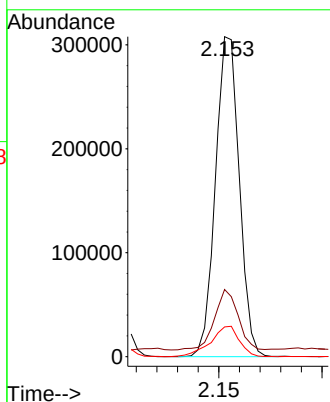
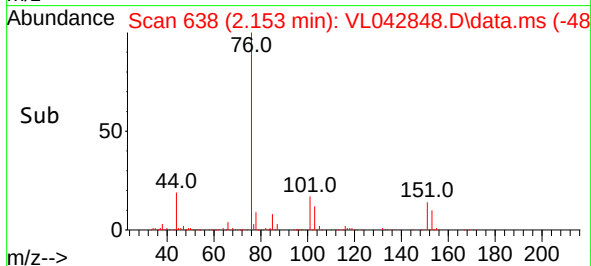
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



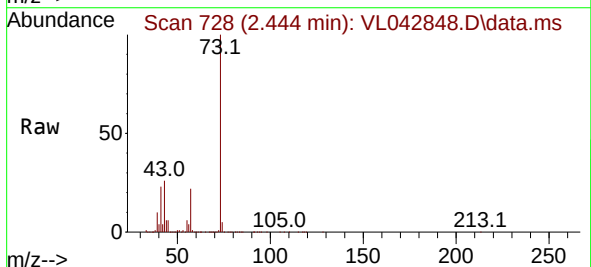
Tgt Ion: 76 Resp: 246868
Ion Ratio Lower Upper
76 100
44 19.7 15.9 23.9
78 11.4 9.5 14.3

Manual Integrations
APPROVED

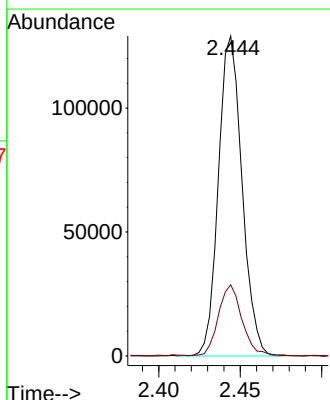
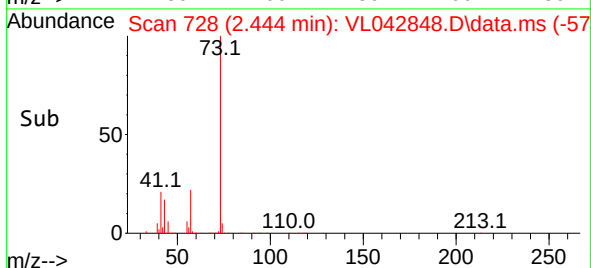
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

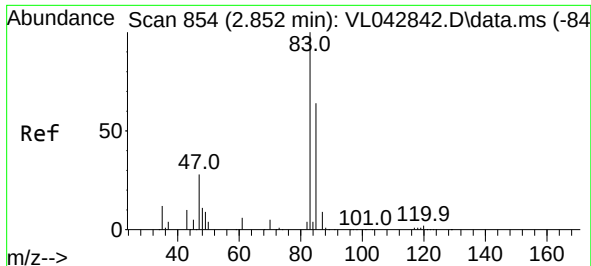


#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 73 Resp: 129978
Ion Ratio Lower Upper
73 100
57 22.5 21.6 32.4





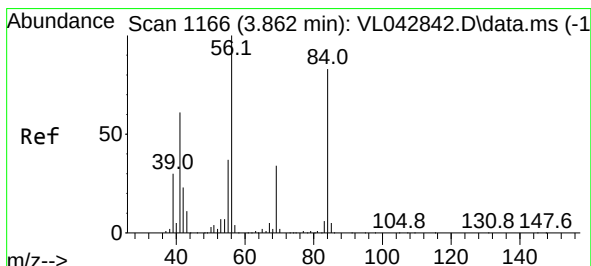
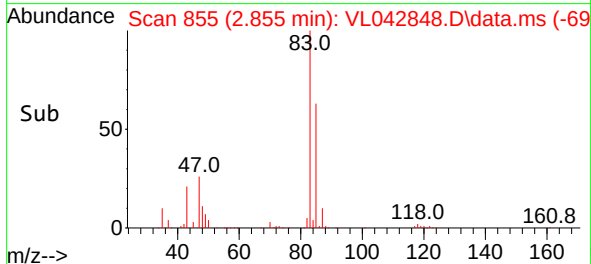
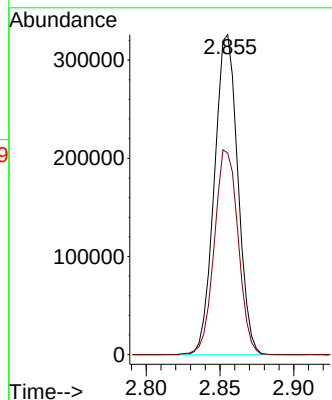
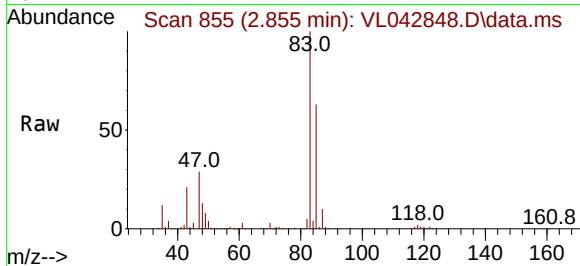
#29
Chloroform
Concen: 14.003 ppbv
RT: 2.855 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 36066
Ion Ratio Lower Upper
83 100
85 63.0 51.1 76.7

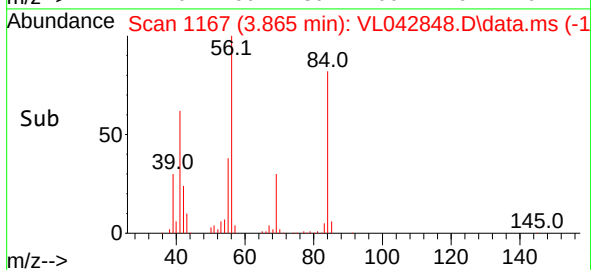
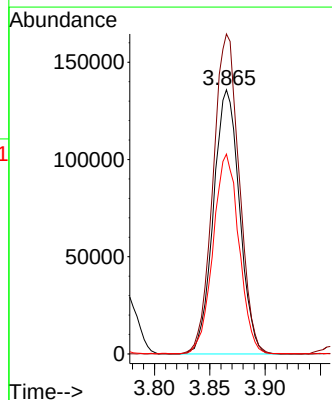
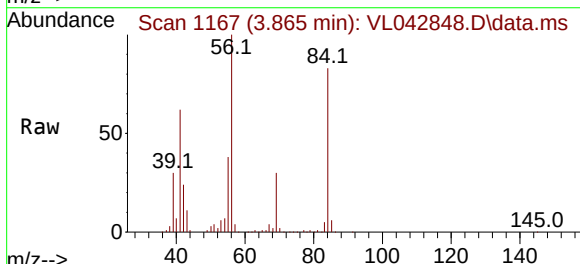
Manual Integrations
APPROVED

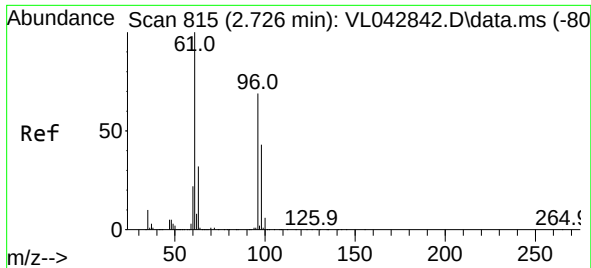
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

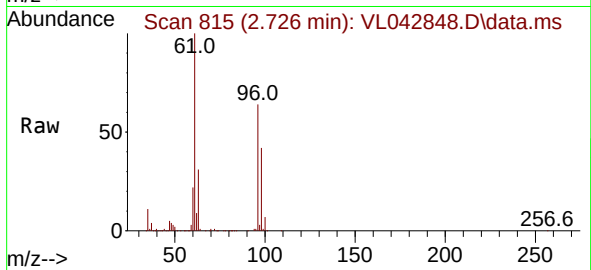
Tgt Ion: 84 Resp: 222820
Ion Ratio Lower Upper
84 100
56 121.5 98.8 148.2
41 75.1 61.3 91.9





#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

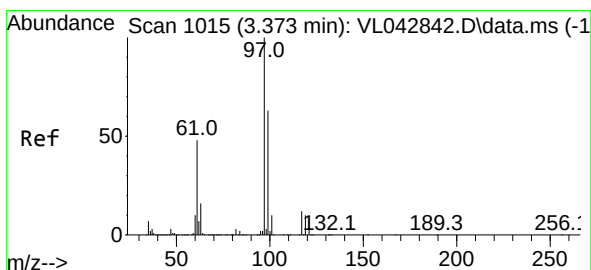
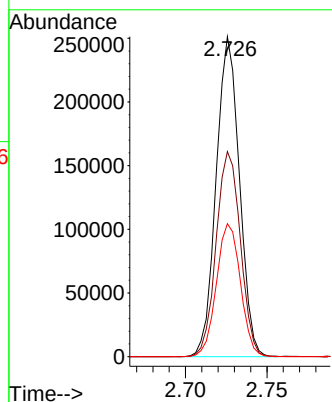
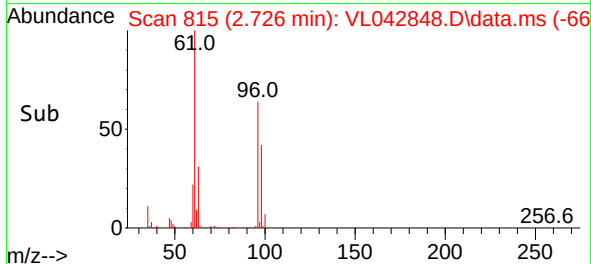
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



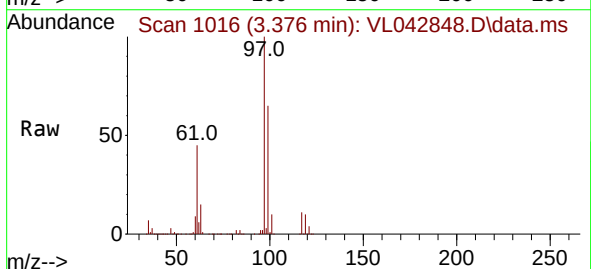
Tgt Ion: 61 Resp: 249370
 Ion Ratio Lower Upper
 61 100
 96 64.1 55.0 82.6
 98 41.6 34.3 51.5

Manual Integrations
 APPROVED

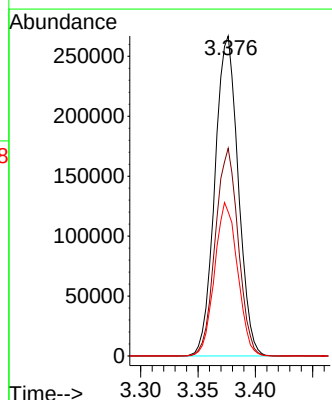
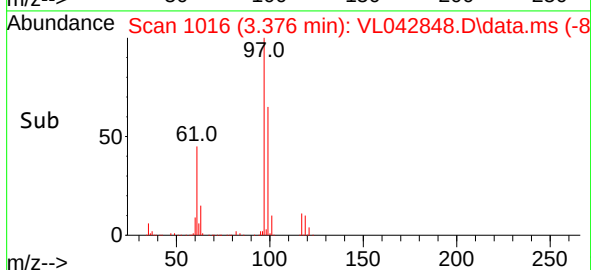
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

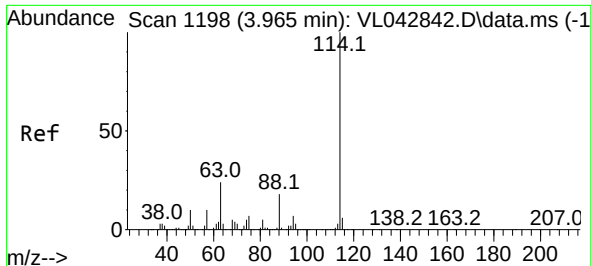


#32
 1,1,1-Trichloroethane
 Concen: 13.851 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



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 :

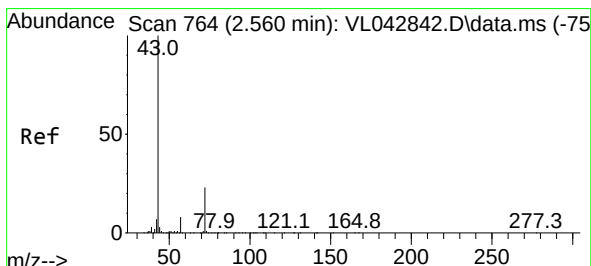
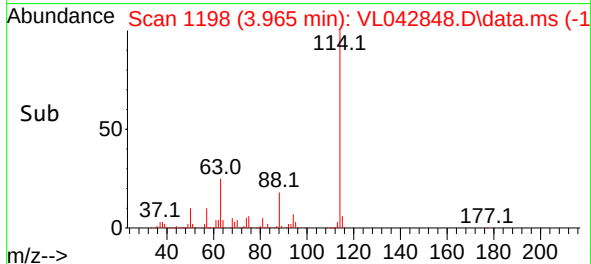
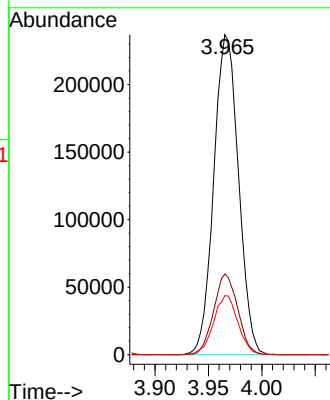
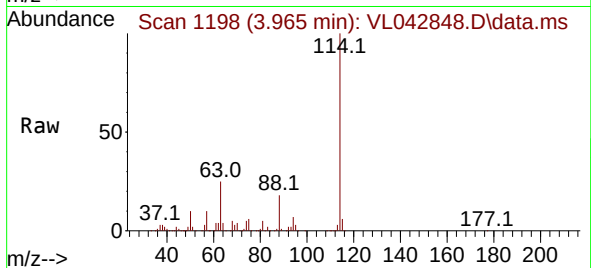
VSTDIC015

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

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



#34

2-Butanone

Concen: 13.563 ppbv

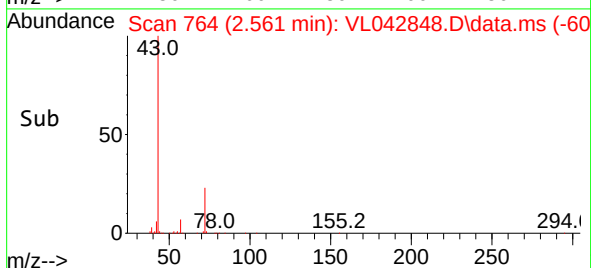
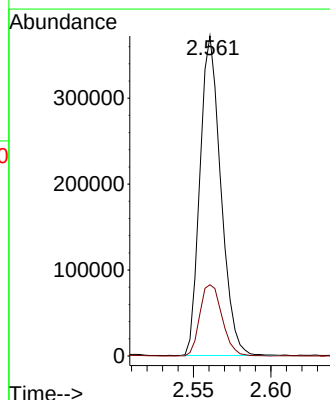
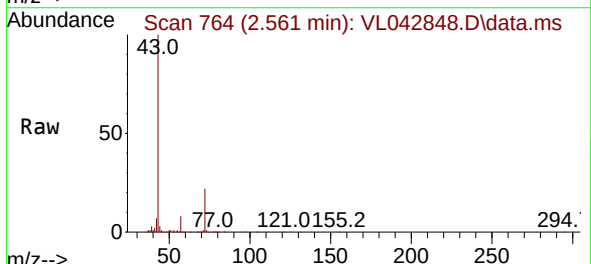
RT: 2.561 min Scan# 764

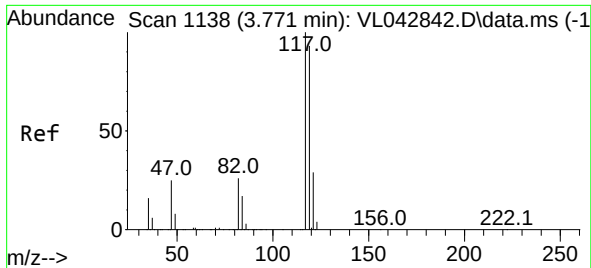
Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

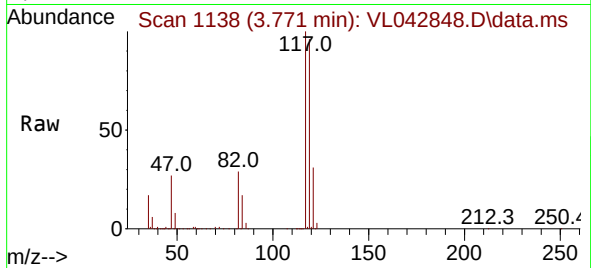
Tgt Ion:	43	Resp:	348815
Ion Ratio	Lower	Upper	
43	100		
72	23.8	18.6	28.0





#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

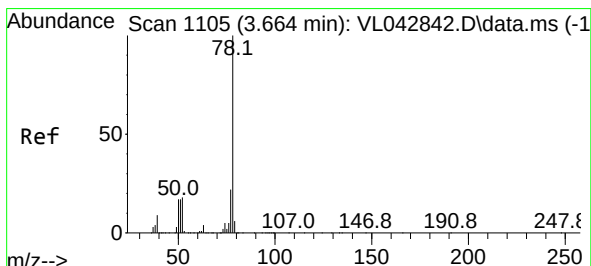
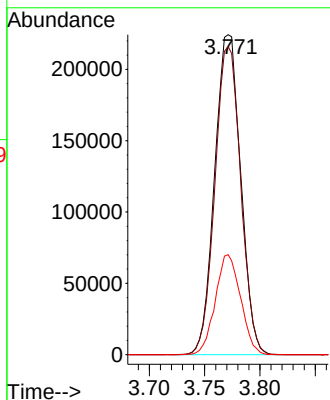
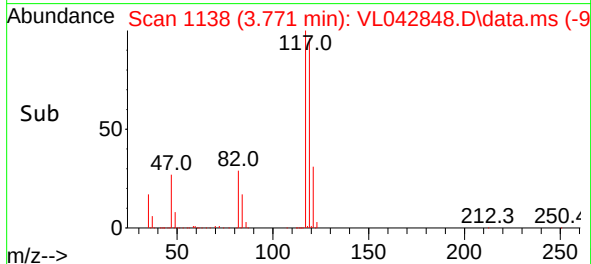
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



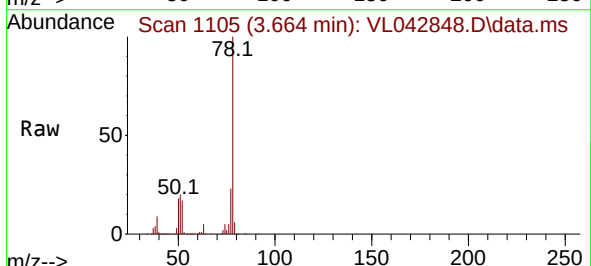
Tgt Ion: 117 Resp: 367354
Ion Ratio Lower Upper
117 100
119 96.3 74.7 112.1
121 31.2 23.2 34.8

Manual Integrations
APPROVED

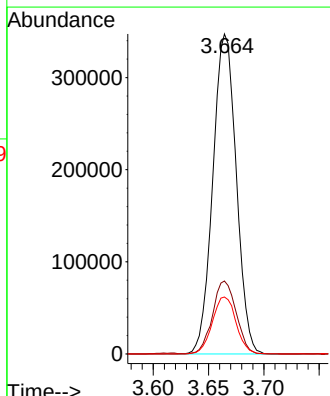
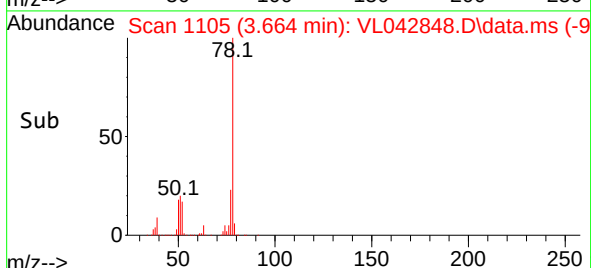
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

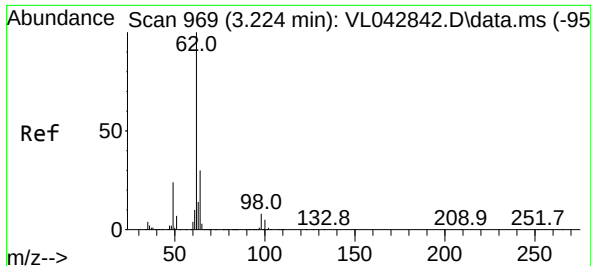


#36
Benzene
Concen: 14.033 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



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





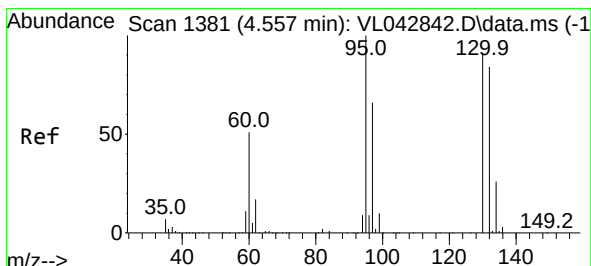
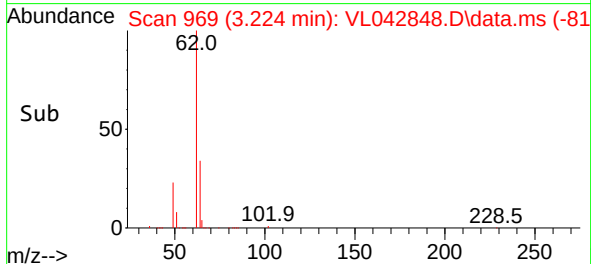
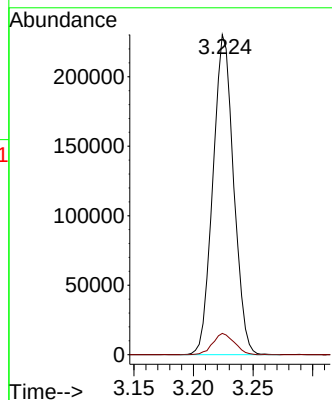
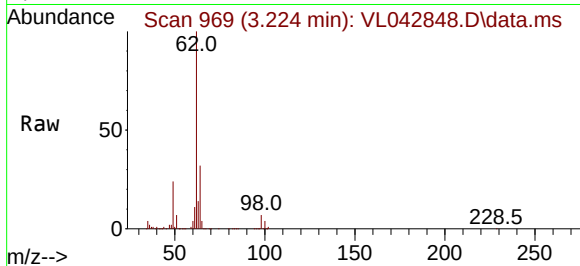
#37
1,2-Dichloroethane
Concen: 14.639 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 278934
Ion Ratio Lower Upper
62 100
98 6.9 5.9 8.9

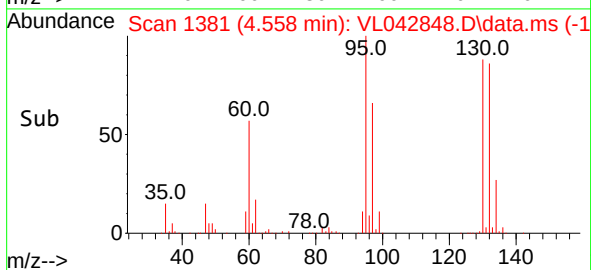
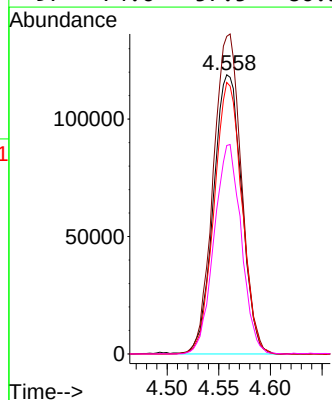
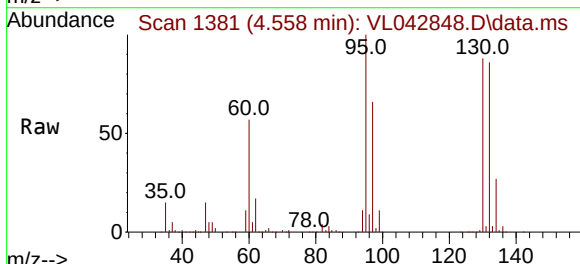
Manual Integrations
APPROVED

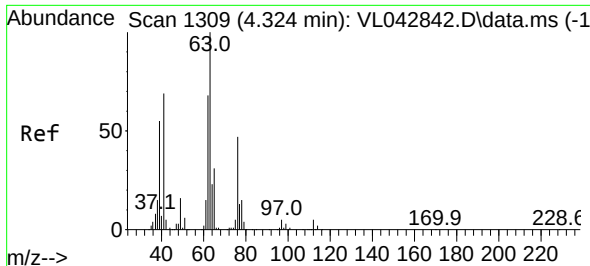
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

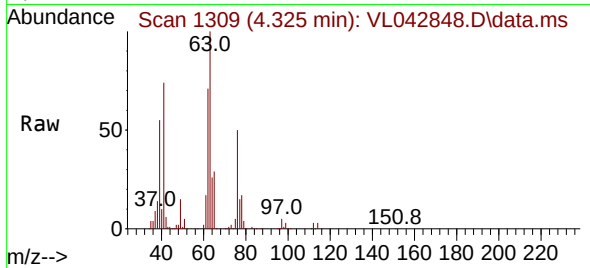
Tgt Ion:130 Resp: 227091
Ion Ratio Lower Upper
130 100
95 113.8 87.6 131.4
132 97.3 73.8 110.8
97 74.6 57.5 86.3





#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

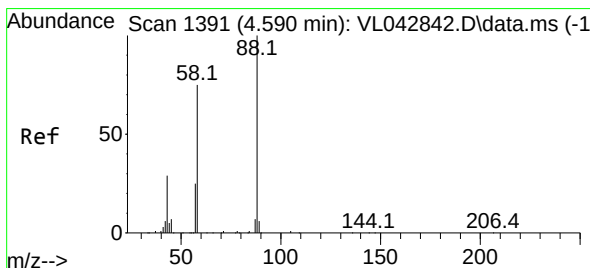
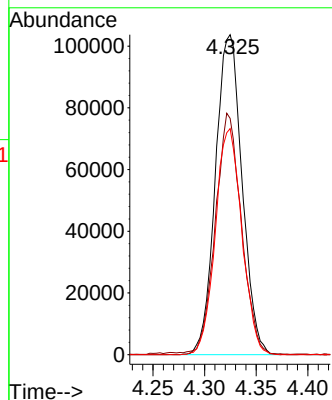
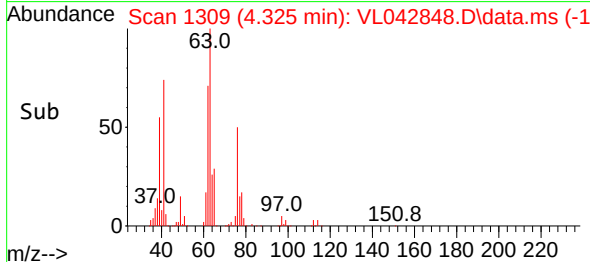
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



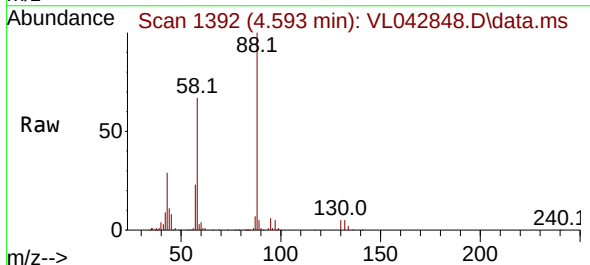
Tgt Ion: 63 Resp: 18627
Ion Ratio Lower Upper
63 100
41 73.5 55.0 82.4
62 70.6 54.4 81.6

Manual Integrations
APPROVED

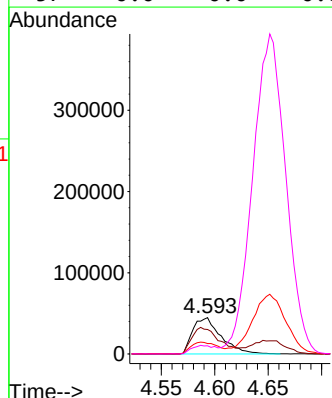
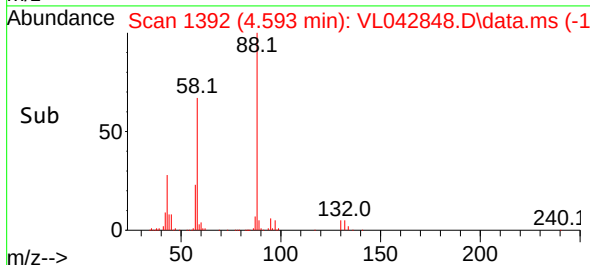
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

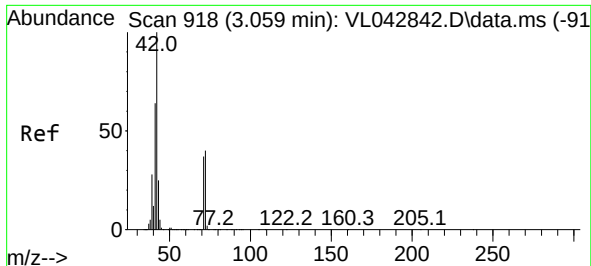


#40
1,4-Dioxane
Concen: 13.212 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



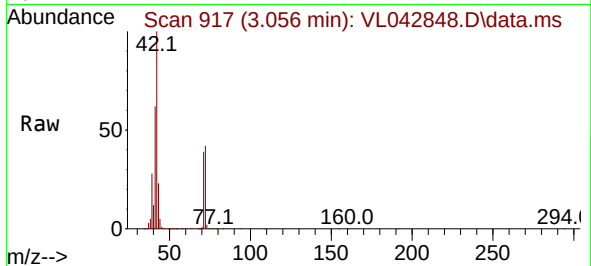
Tgt Ion: 88 Resp: 82385
Ion Ratio Lower Upper
88 100
58 73.5 53.8 80.6
43 33.9 22.8 34.2
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 918
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

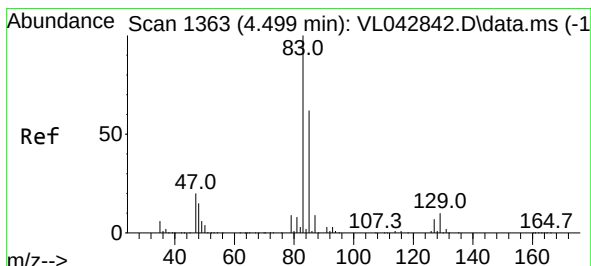
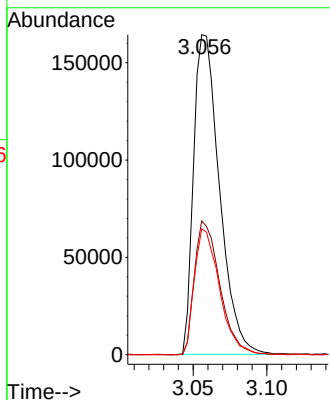
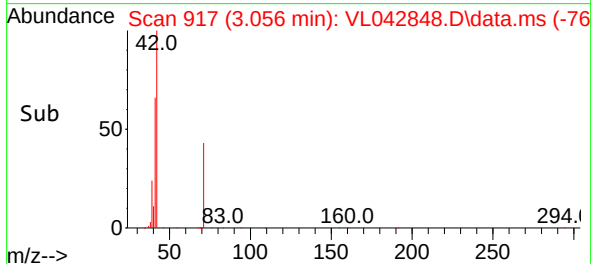
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 42 Resp: 20075
Ion Ratio Lower Upper
42 100
72 41.0 32.6 48.8
71 38.4 30.0 45.0

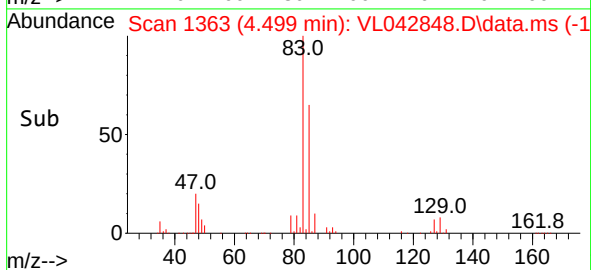
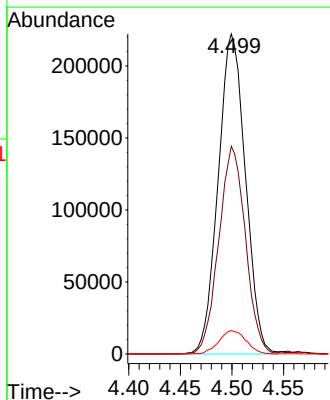
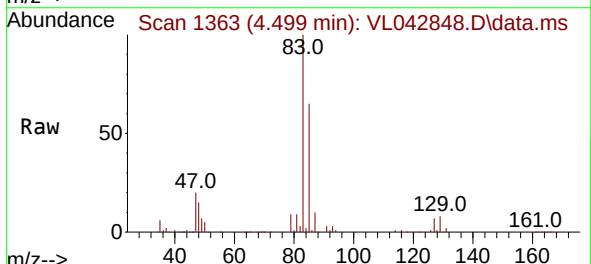
Manual Integrations
APPROVED

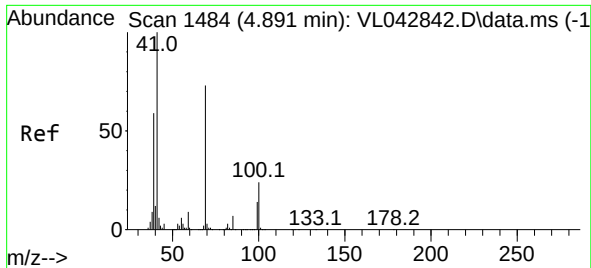
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

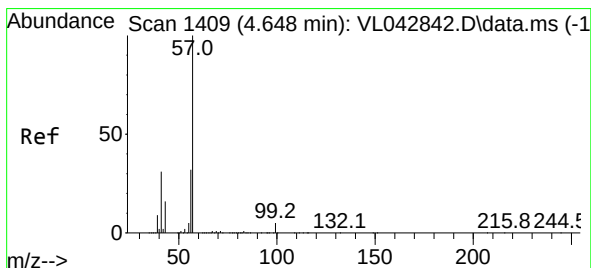
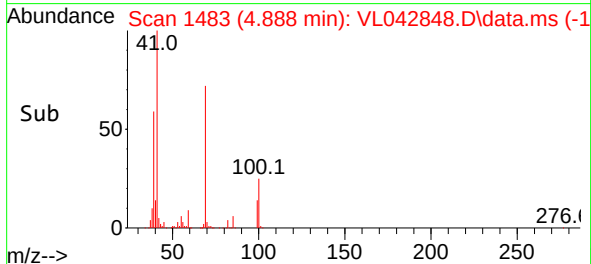
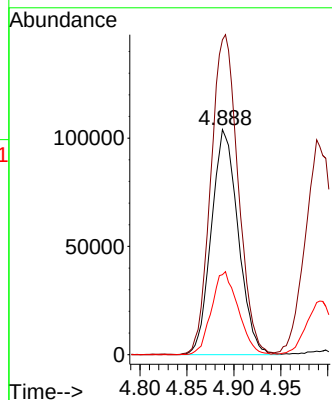
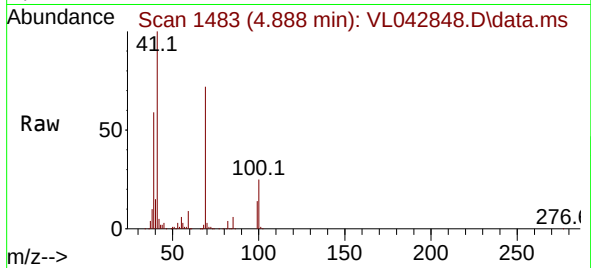
VSTDIC015

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

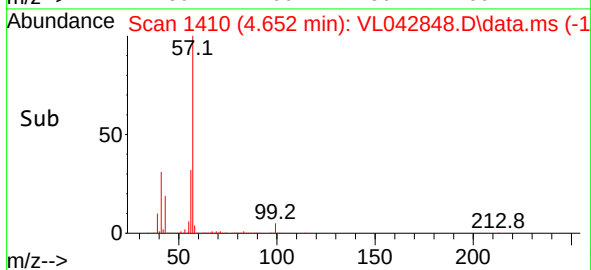
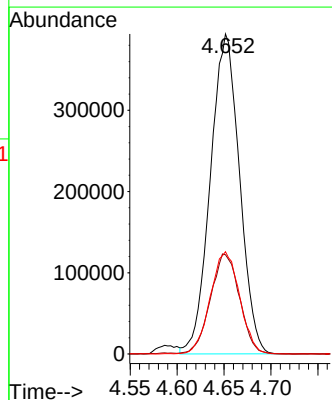
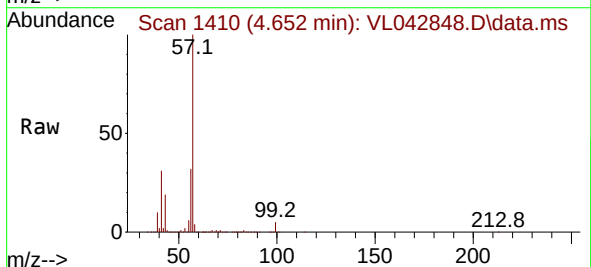
APPROVED

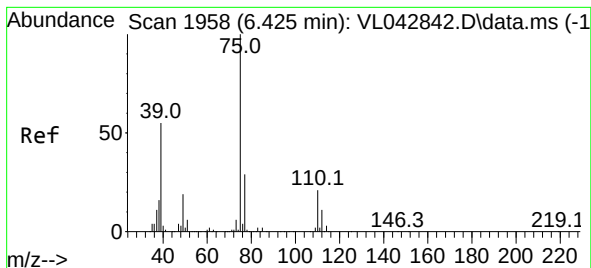
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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: 24411

Ion Ratio Lower Upper

75 100

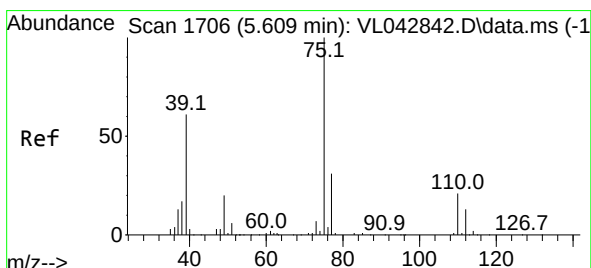
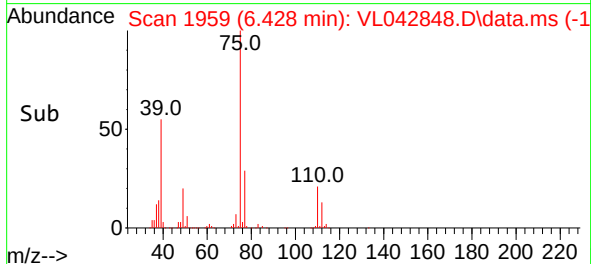
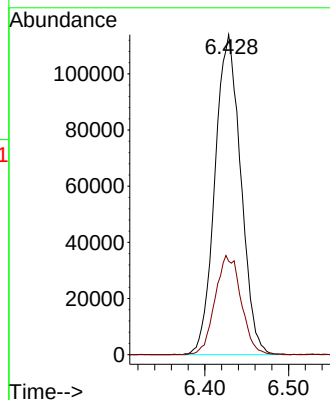
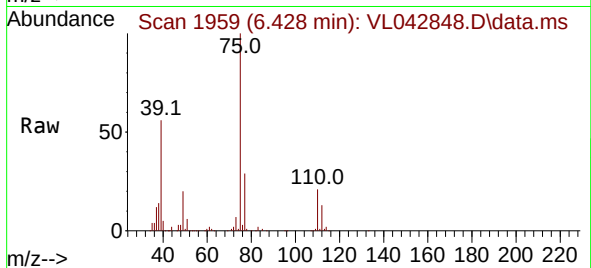
77 29.2 23.8 35.6

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

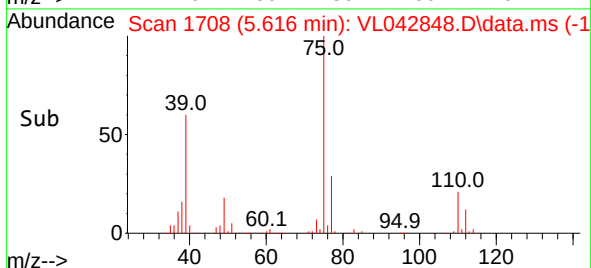
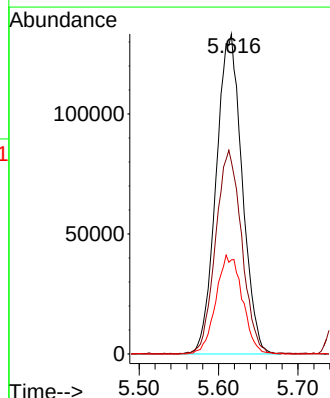
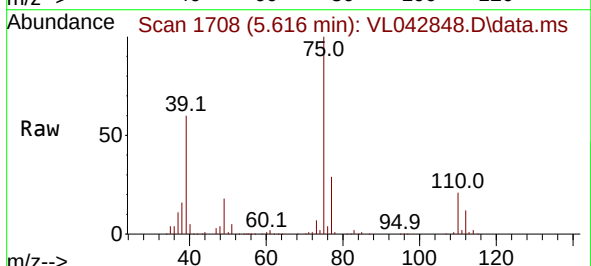
Tgt Ion: 75 Resp: 302339

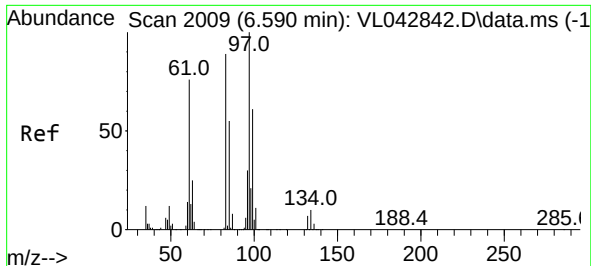
Ion Ratio Lower Upper

75 100

39 59.9 48.9 73.3

77 29.4 24.9 37.3





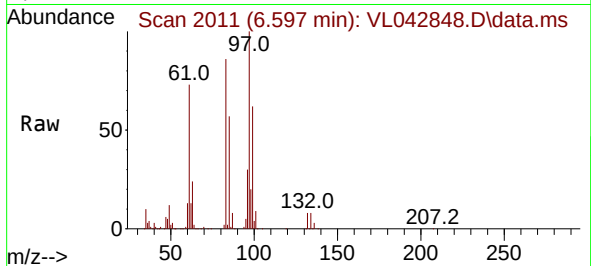
#47
1,1,2-Trichloroethane
Concen: 14.118 ppbv
RT: 6.597 min Scan# 2009
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

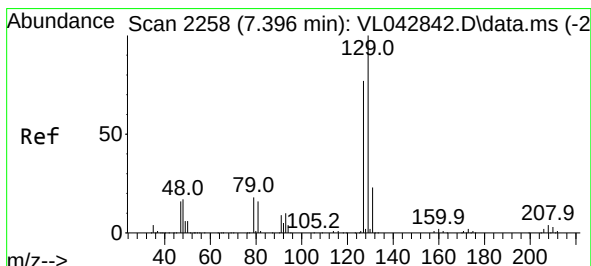
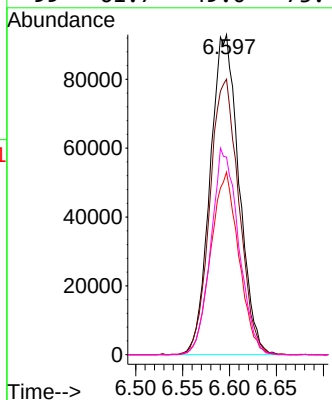
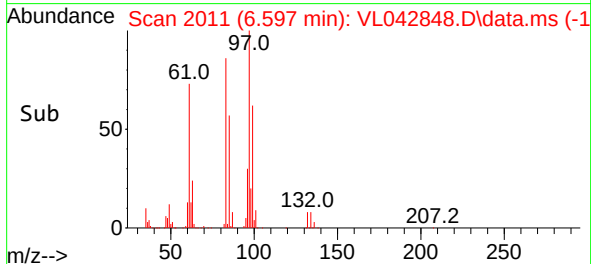


Tgt Ion: 97 Resp: 19906
Ion Ratio Lower Upper
97 100
83 86.0 71.0 106.4
85 57.0 43.6 65.4
99 61.7 49.0 73.4

Manual Integrations

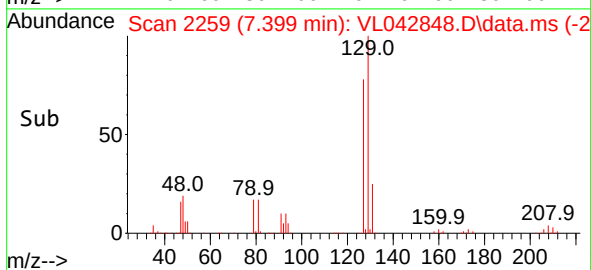
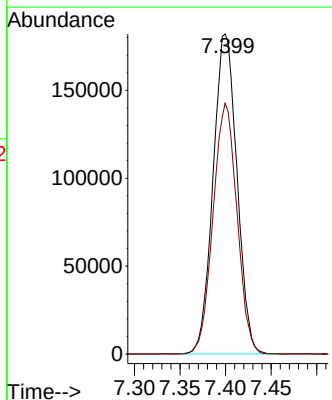
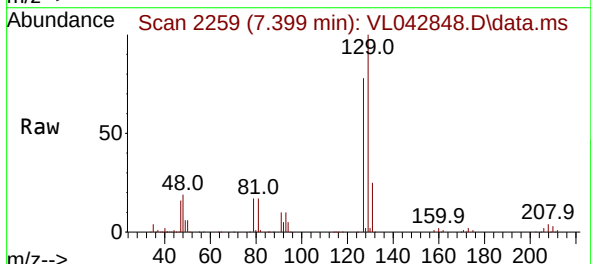
APPROVED

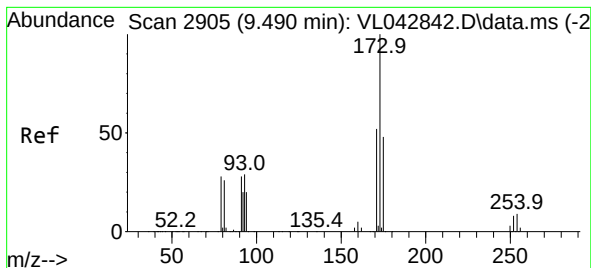
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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: 26673

Ion Ratio Lower Upper

173 100

175 49.2 39.2 58.8

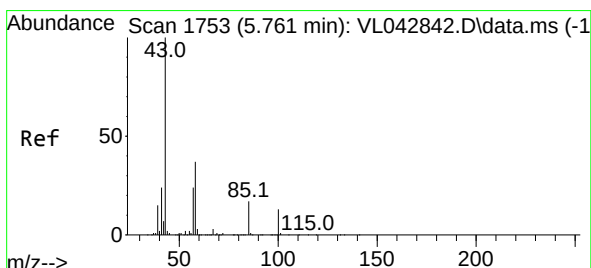
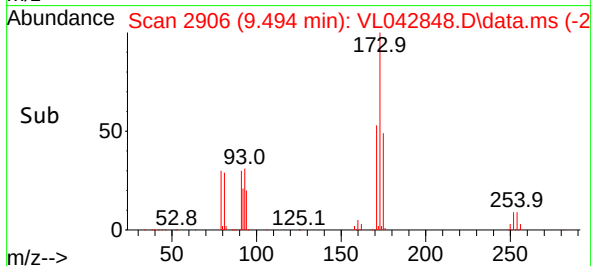
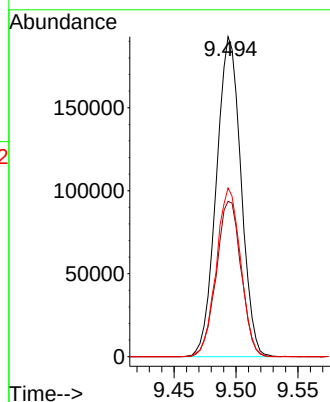
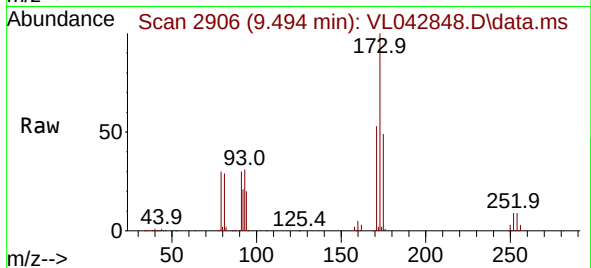
171 52.1 41.3 61.9

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

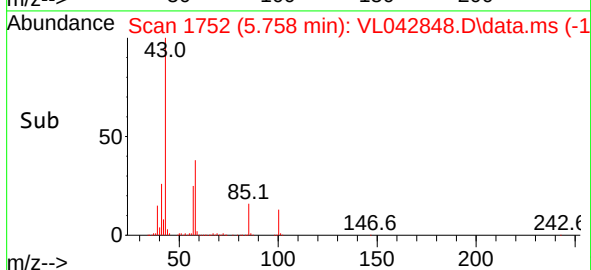
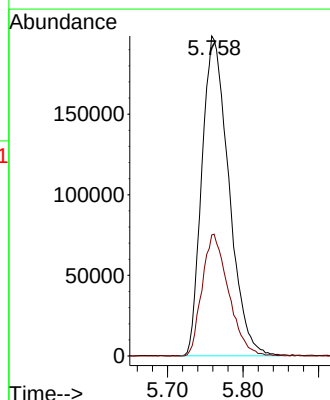
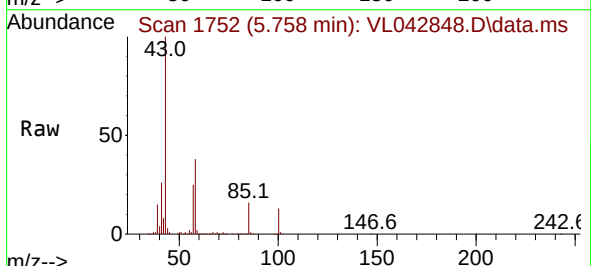
Acq: 13 Aug 2025 12:06

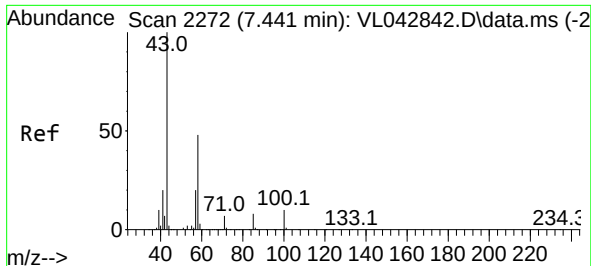
Tgt Ion: 43 Resp: 490917

Ion Ratio Lower Upper

43 100

58 37.5 29.8 44.8





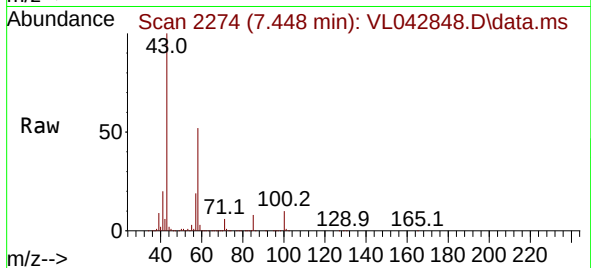
#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

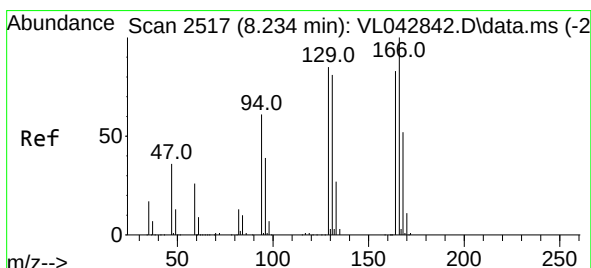
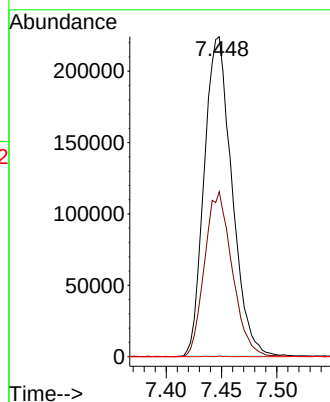
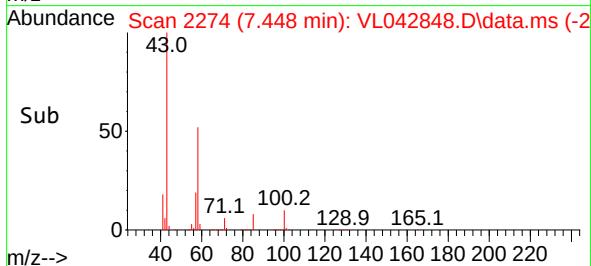


Tgt Ion: 43 Resp: 389940
Ion Ratio Lower Upper
43 100
58 51.6 41.0 61.6
98 0.1 0.1 0.1

Manual Integrations

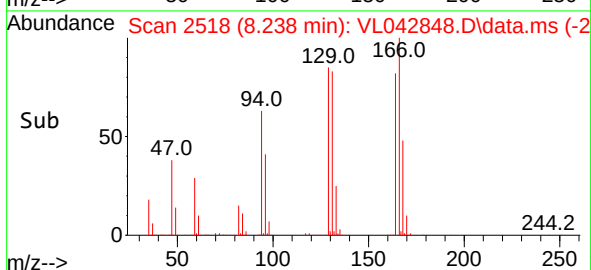
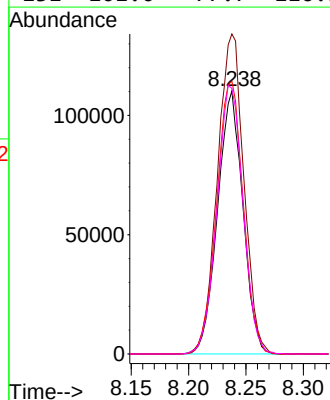
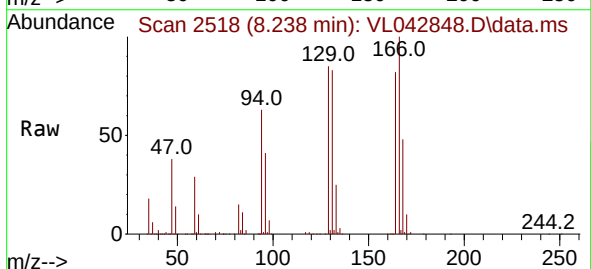
APPROVED

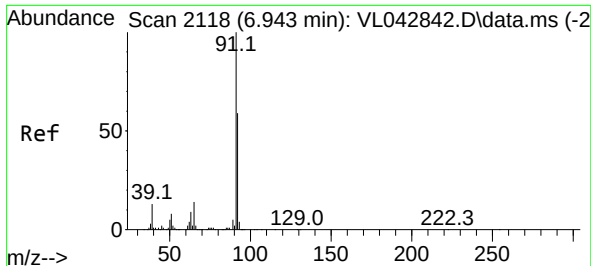
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

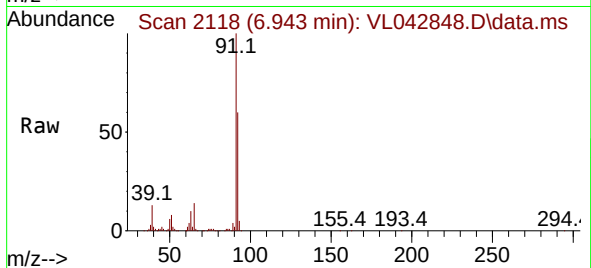
Tgt Ion:164 Resp: 168712
Ion Ratio Lower Upper
164 100
166 121.7 96.5 144.7
129 103.7 81.8 122.6
131 101.0 77.7 116.5





#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

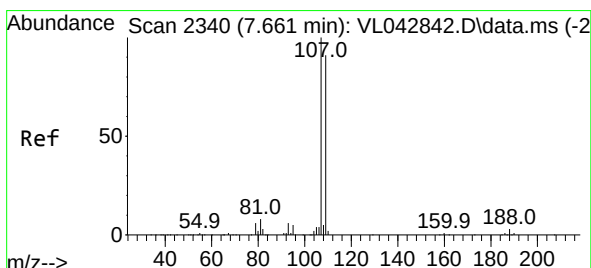
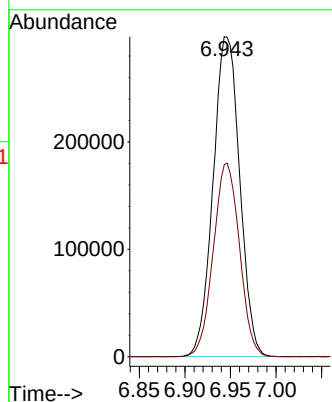
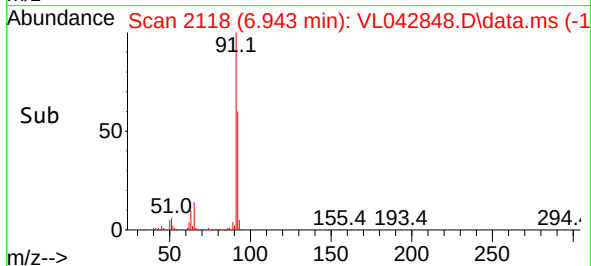
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



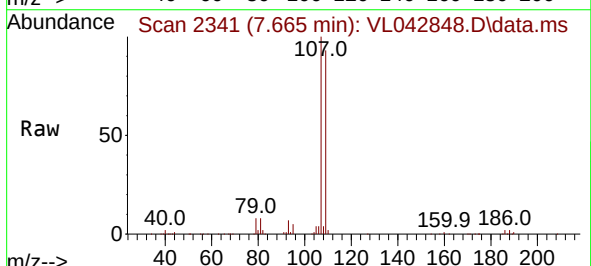
Tgt Ion: 91 Resp: 60594
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6

Manual Integrations
APPROVED

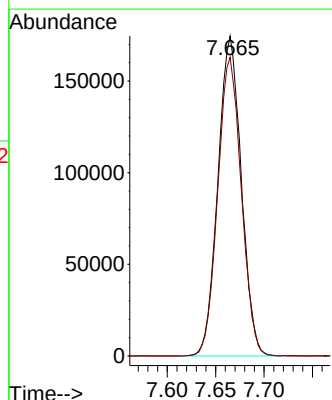
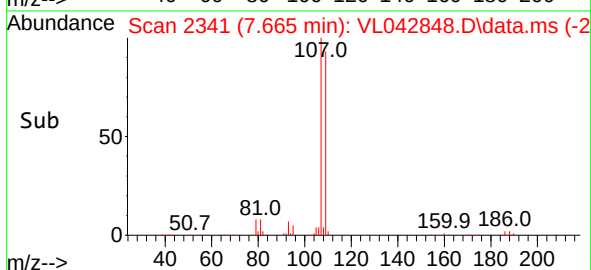
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

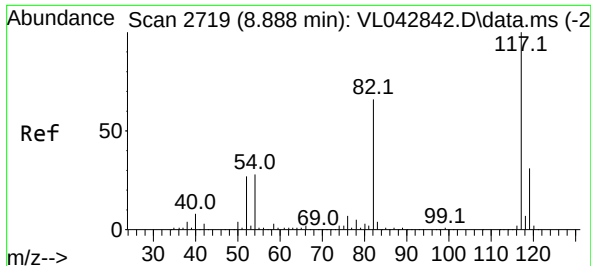


#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



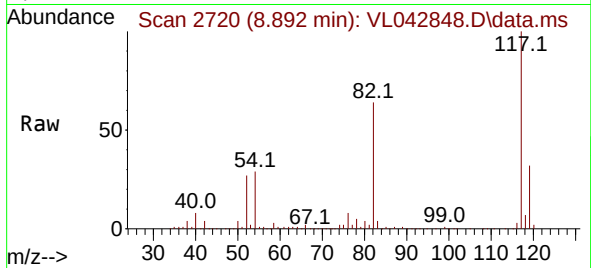
Tgt Ion:107 Resp: 292327
Ion Ratio Lower Upper
107 100
109 93.4 72.5 108.7





#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

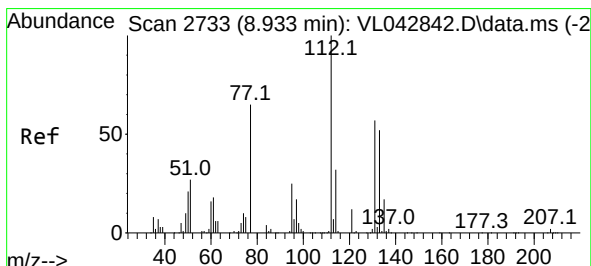
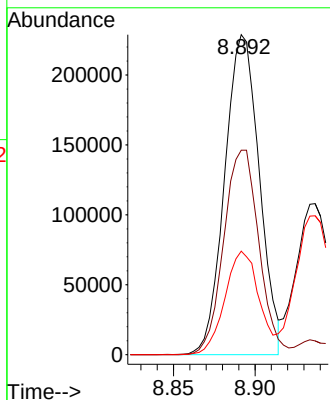
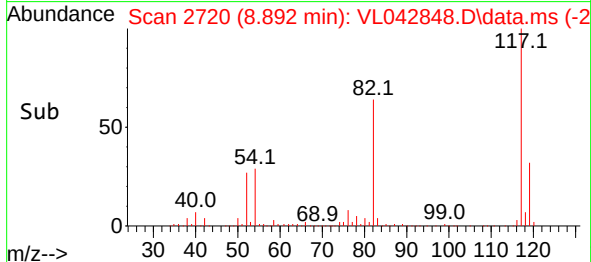
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015



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

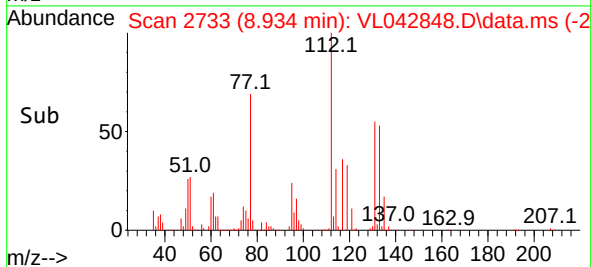
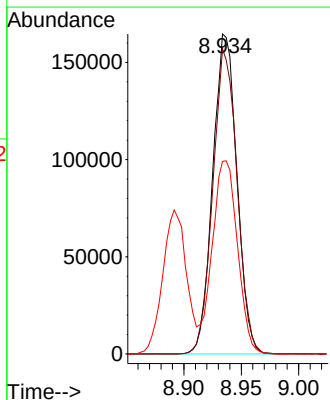
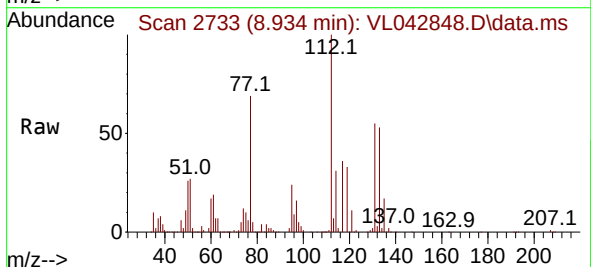
Manual Integrations
APPROVED

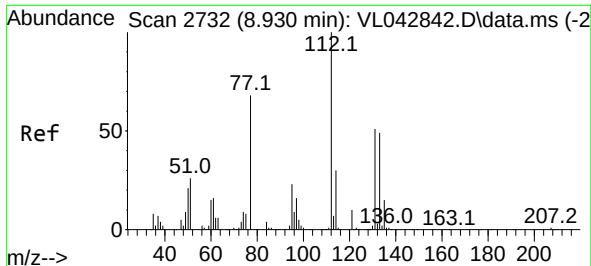
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

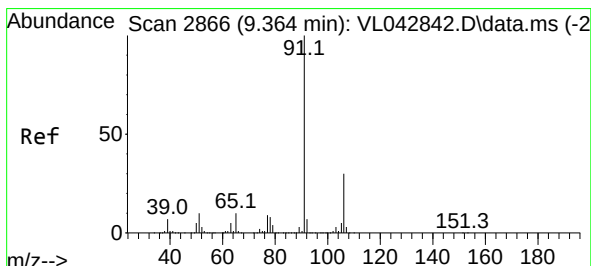
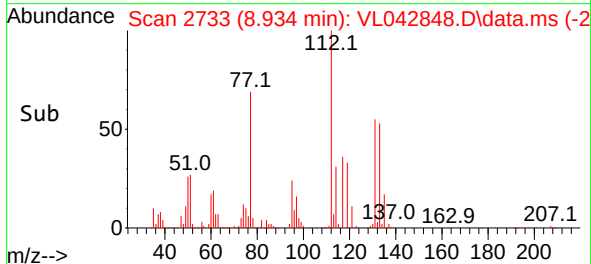
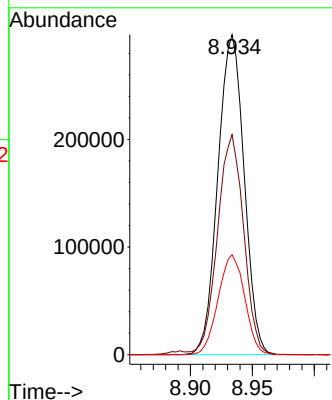
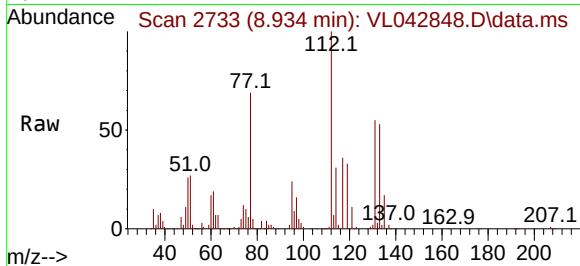
VSTDIC015

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

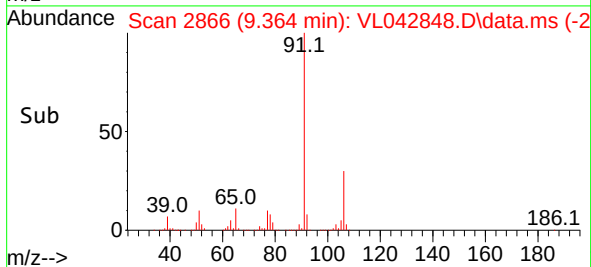
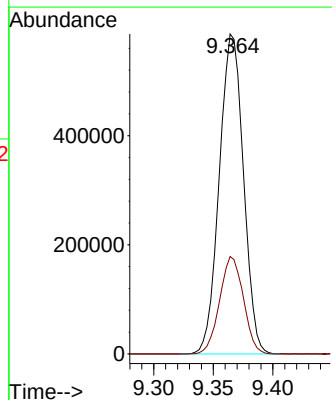
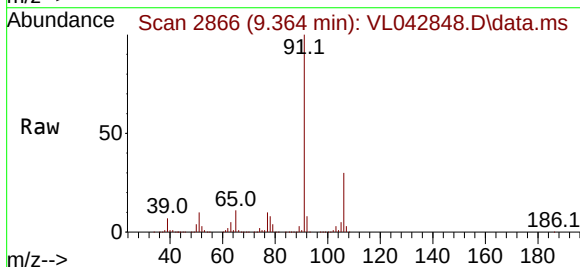
APPROVED

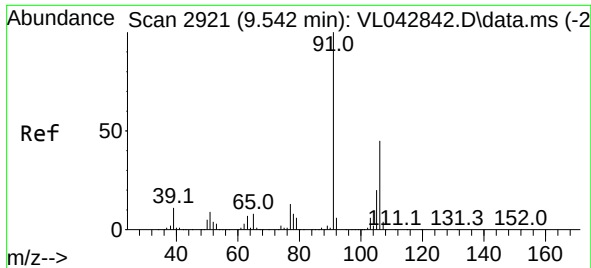
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





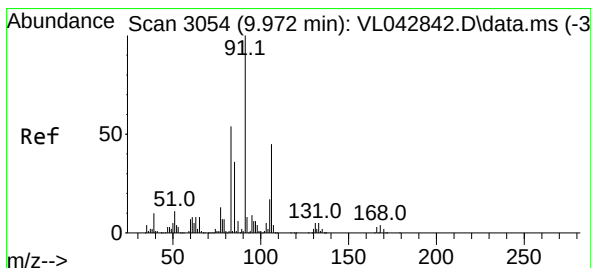
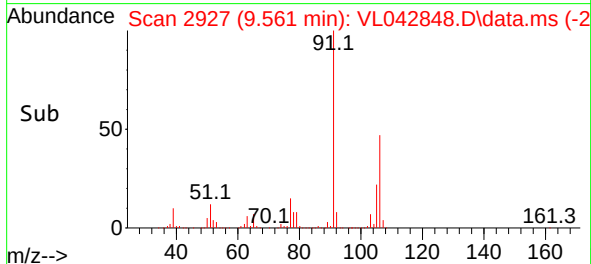
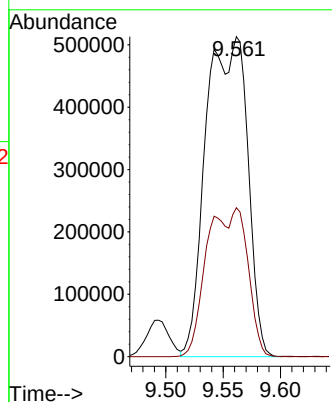
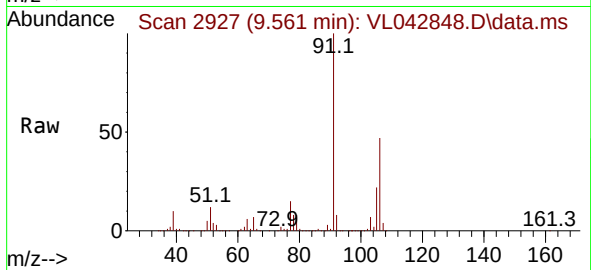
#59
m/p-Xylene
Concen: 27.650 ppbv m
RT: 9.561 min Scan# 2921
Delta R.T. 0.020 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 129438
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

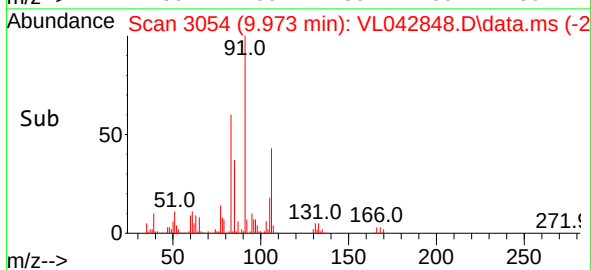
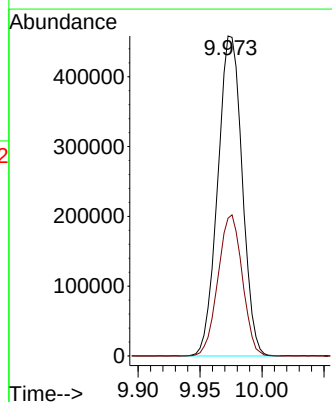
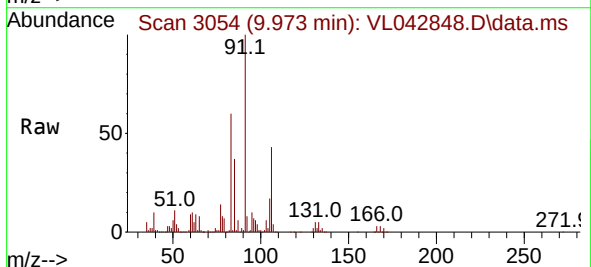
Manual Integrations
APPROVED

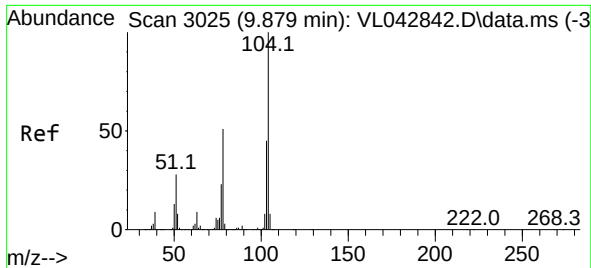
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

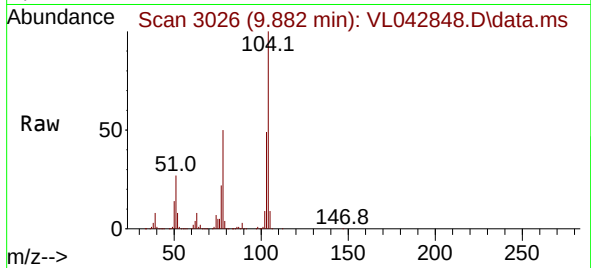
Tgt Ion: 91 Resp: 629445
Ion Ratio Lower Upper
91 100
106 43.9 21.8 65.4





#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

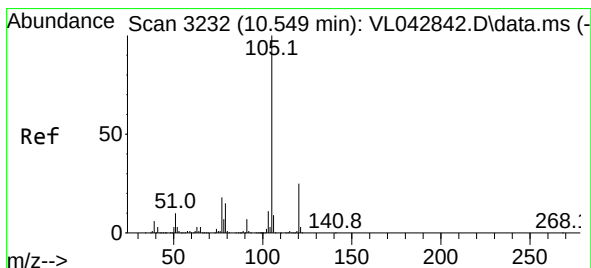
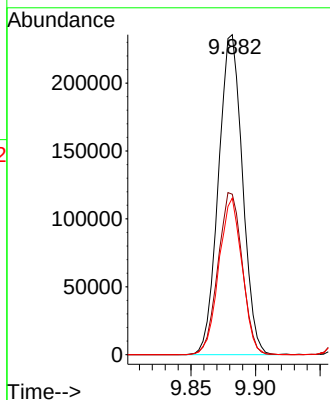
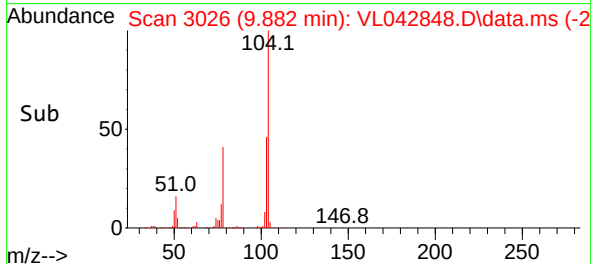
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



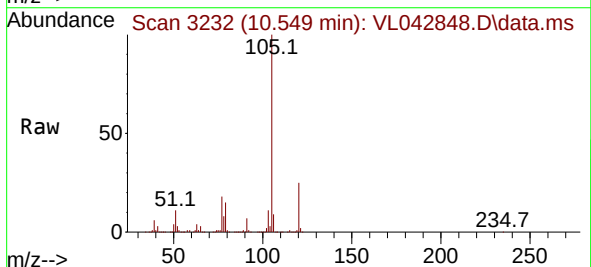
Tgt Ion:104 Resp: 304560
Ion Ratio Lower Upper
104 100
78 51.1 40.6 61.0
103 47.6 37.7 56.5

Manual Integrations
APPROVED

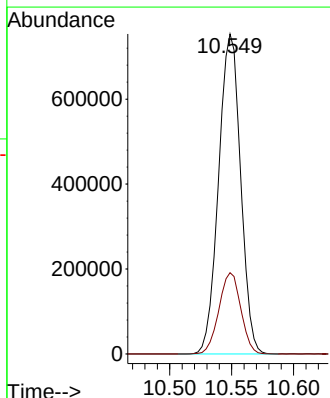
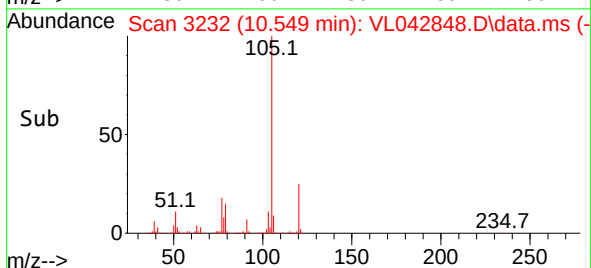
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

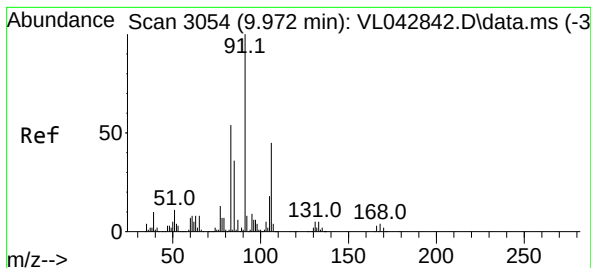


#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



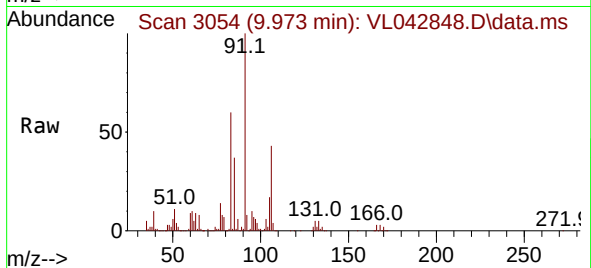
Tgt Ion:105 Resp: 931574
Ion Ratio Lower Upper
105 100
120 25.2 20.6 30.8





#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

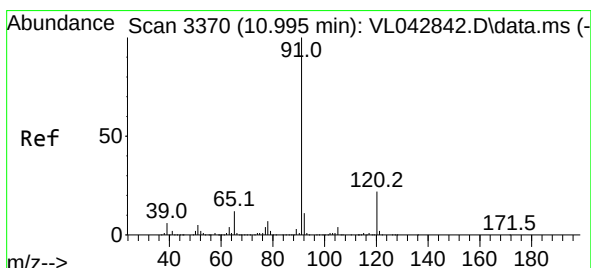
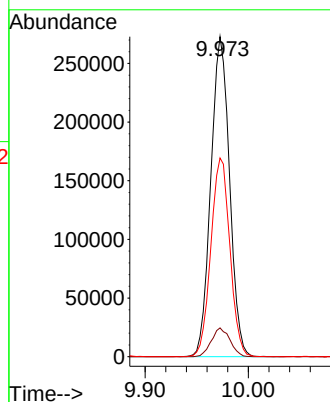
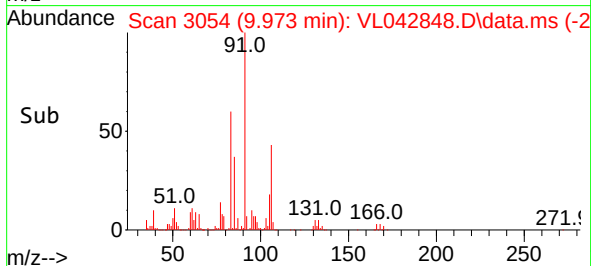
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



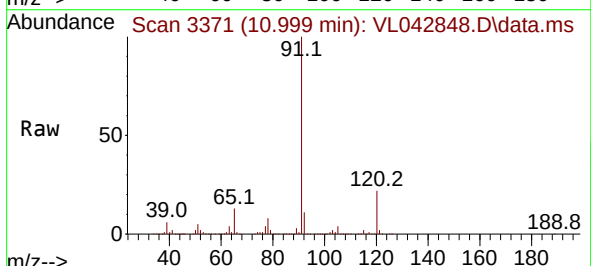
Tgt Ion: 83 Resp: 342890
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 63.0 32.3 96.8

Manual Integrations
APPROVED

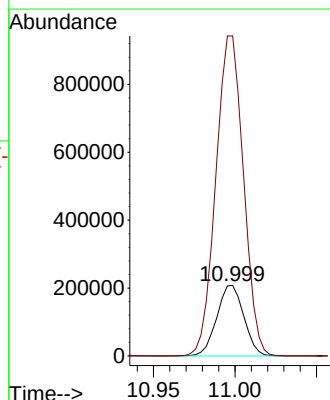
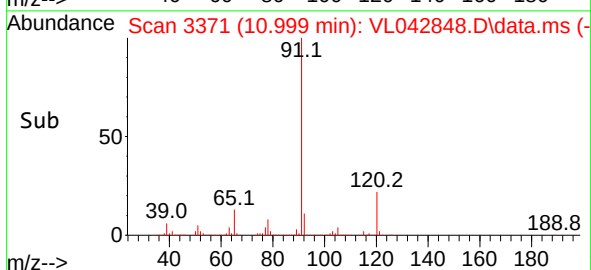
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

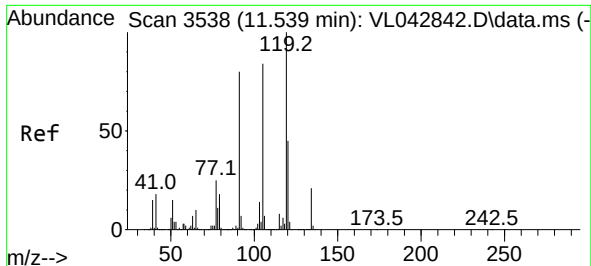


#64
n-propylbenzene
Concen: 13.646 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



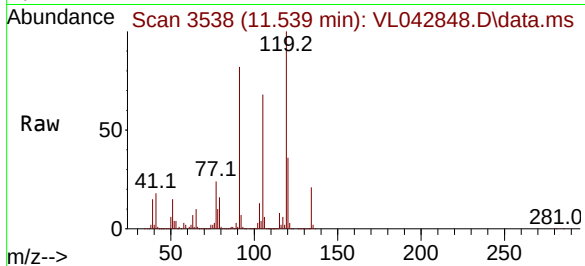
Tgt Ion:120 Resp: 239209
Ion Ratio Lower Upper
120 100
91 465.1 375.8 563.6





#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

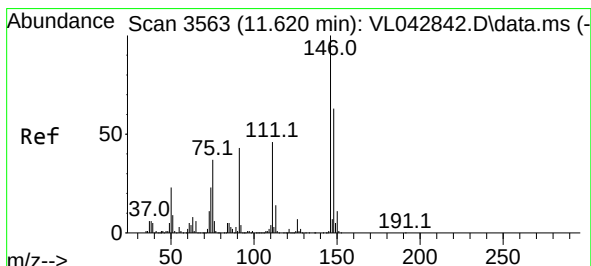
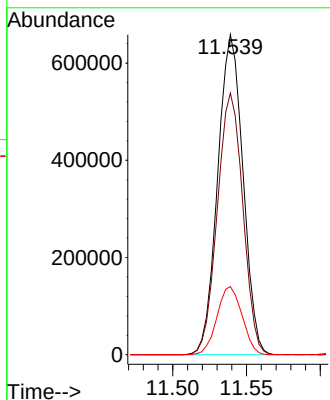
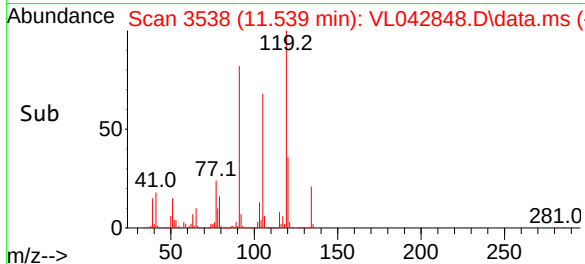
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



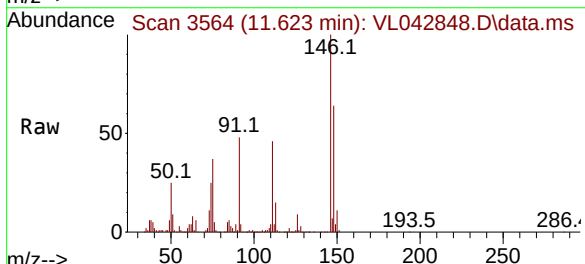
Tgt Ion: 119 Resp: 785250
Ion Ratio Lower Upper
119 100
91 82.4 63.9 95.9
134 21.1 17.0 25.4

Manual Integrations
APPROVED

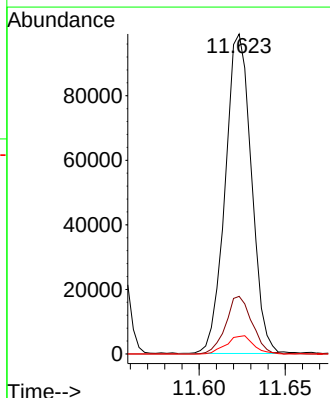
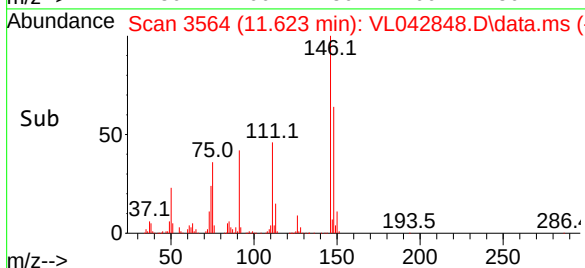
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

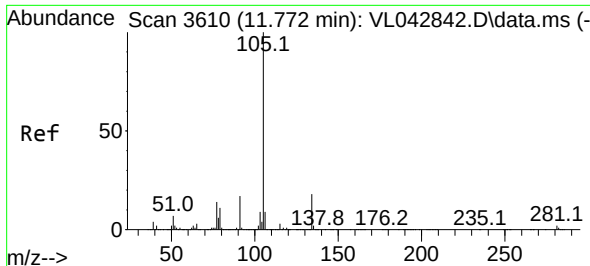


#66
Benzyl Chloride
Concen: 13.617 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



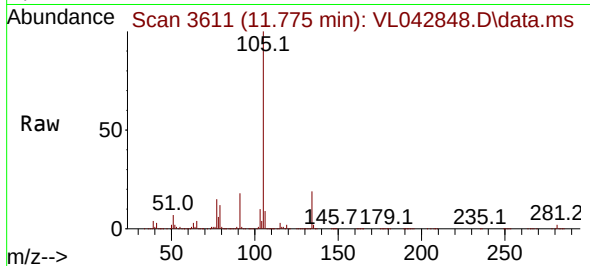
Tgt Ion: 91 Resp: 104698
Ion Ratio Lower Upper
91 100
126 18.1 14.2 21.4
128 5.9 5.0 7.6





#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

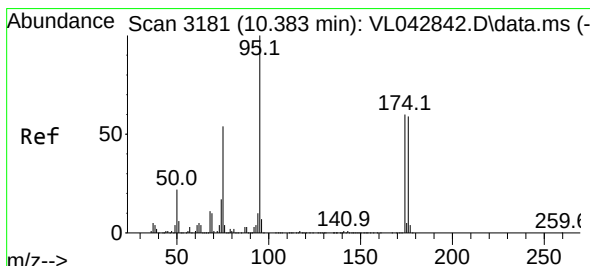
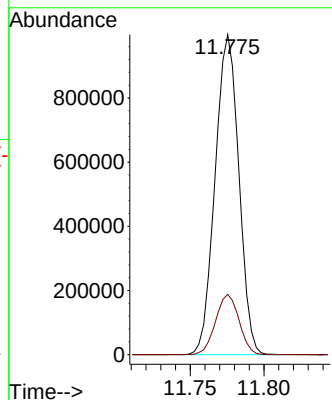
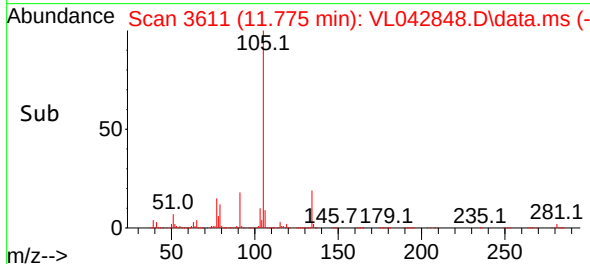
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 1115979
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3

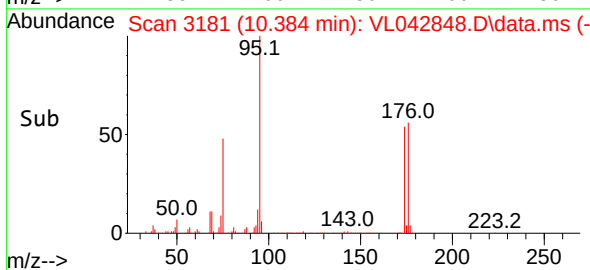
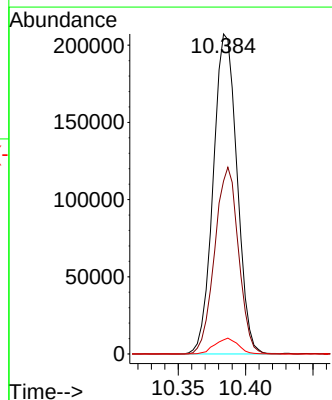
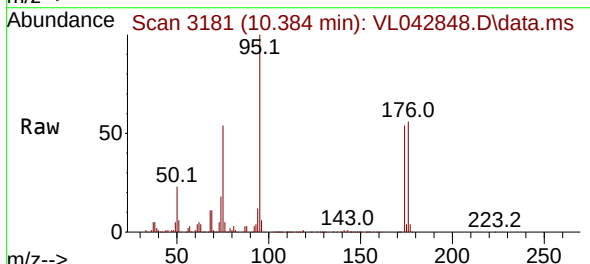
Manual Integrations
 APPROVED

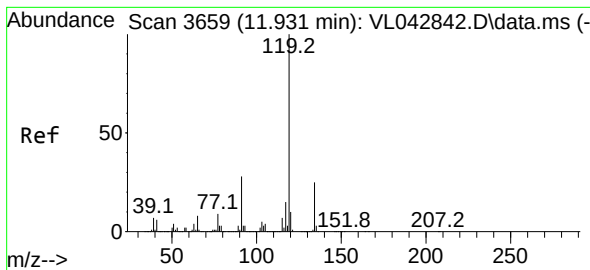
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#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

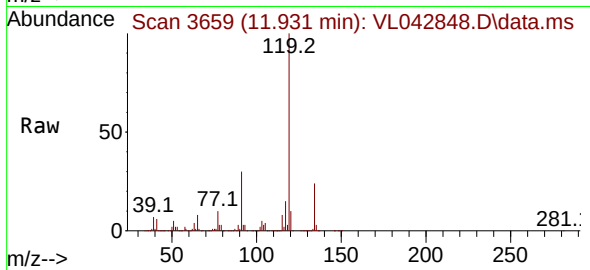
Tgt Ion: 95 Resp: 254655
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.8 3.8 5.8





#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

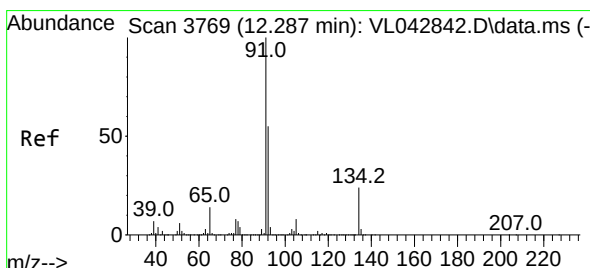
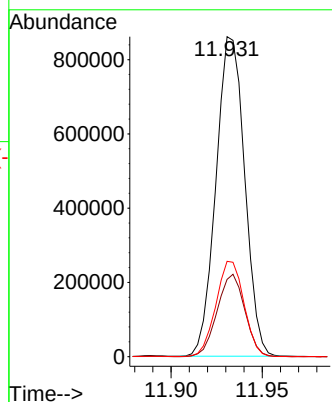
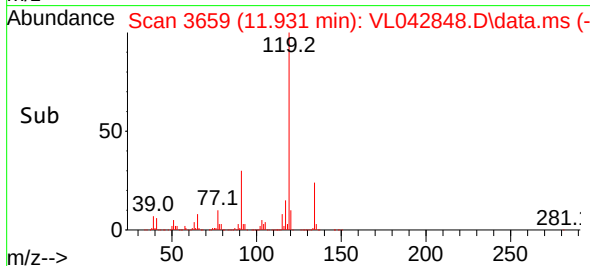
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



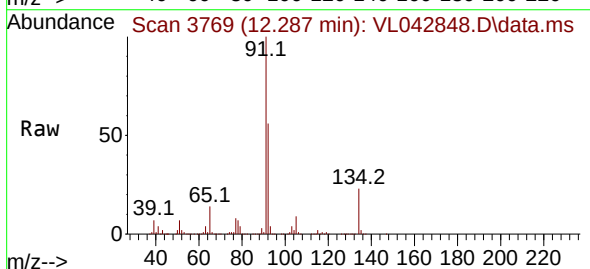
Tgt Ion: 119 Resp: 940888
Ion Ratio Lower Upper
119 100
134 25.0 20.6 30.8
91 29.4 22.6 34.0

Manual Integrations
APPROVED

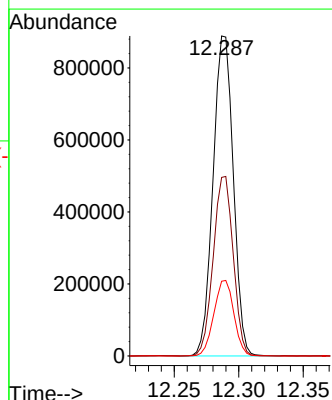
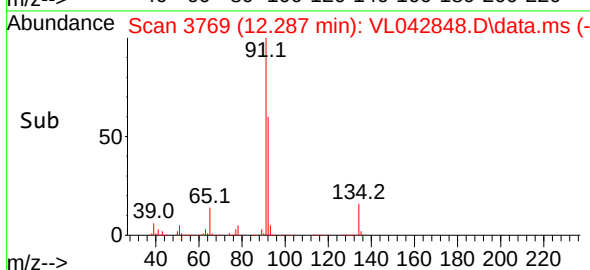
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

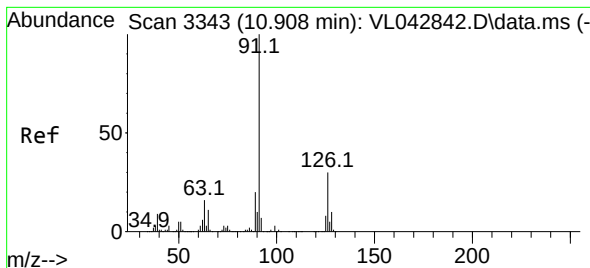


#70
n-Butylbenzene
Concen: 13.410 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



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





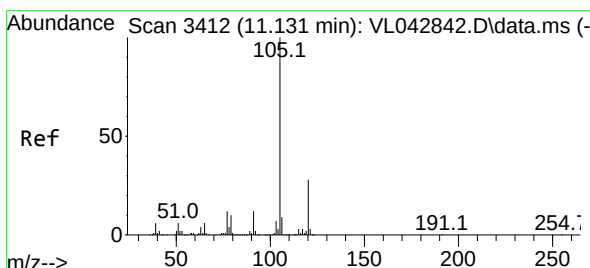
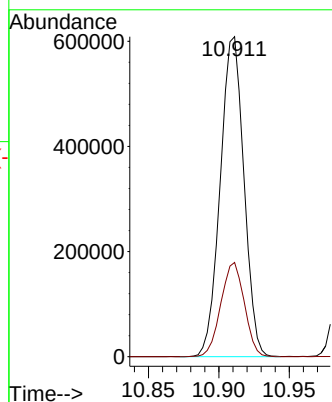
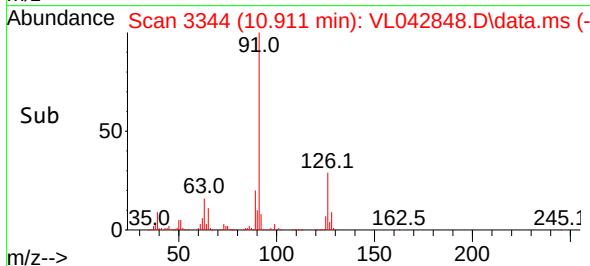
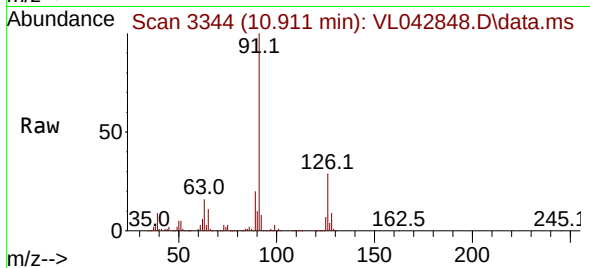
#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 713690
Ion Ratio Lower Upper
91 100
126 29.2 12.0 47.8

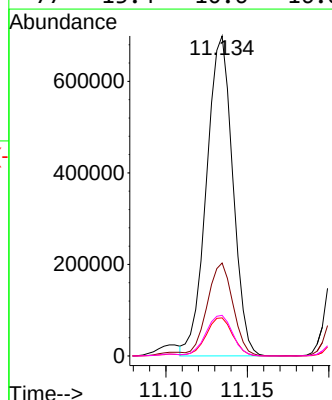
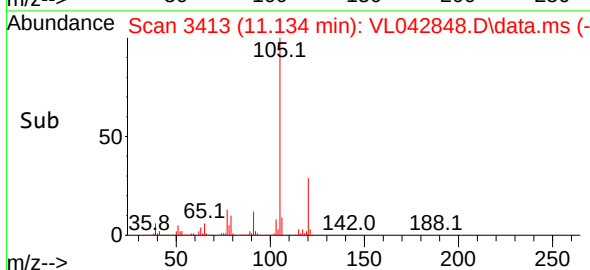
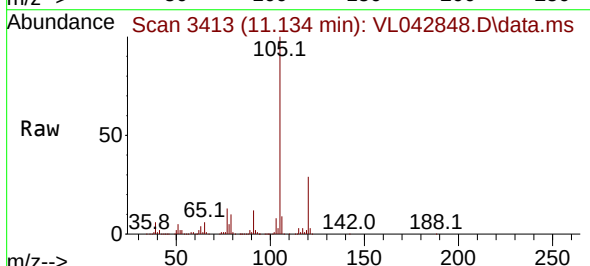
Manual Integrations
APPROVED

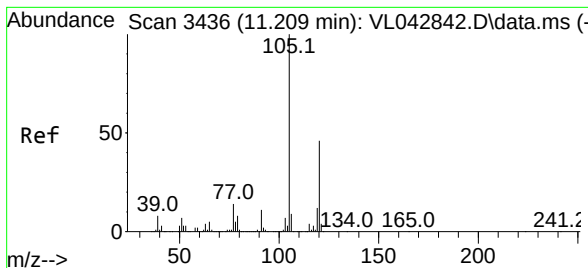
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

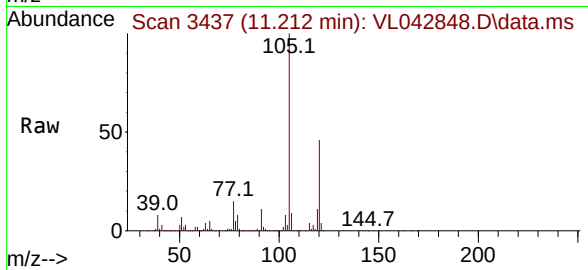
Tgt Ion:105 Resp: 782057
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.2
91 12.5 9.8 14.6
77 13.4 10.6 16.0





#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

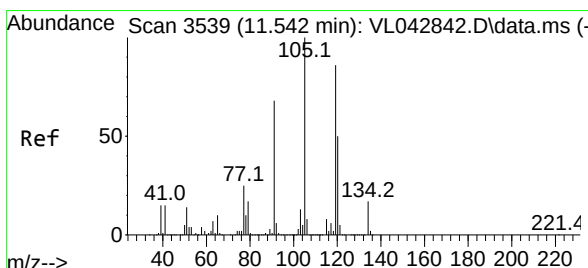
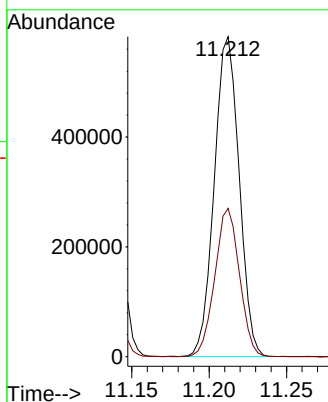
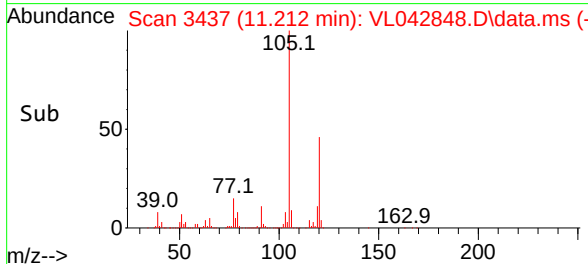
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



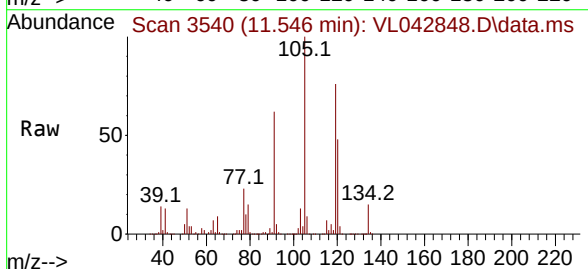
Tgt Ion:105 Resp: 650280
Ion Ratio Lower Upper
105 100
120 46.4 36.6 54.8

Manual Integrations
APPROVED

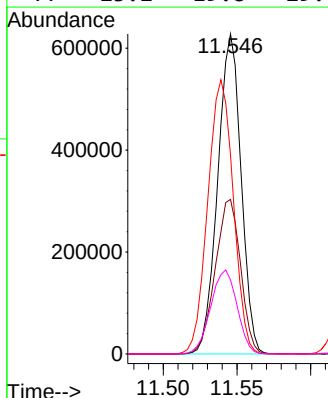
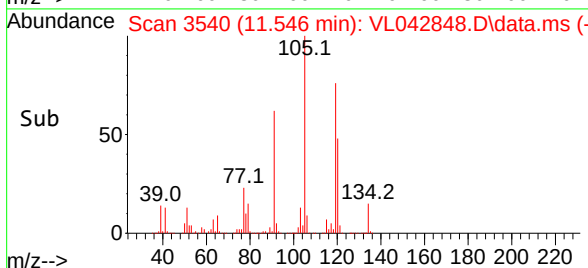
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

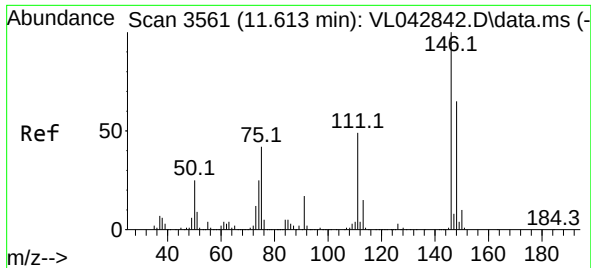


#74
1,2,4-Trimethylbenzene
Concen: 13.003 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



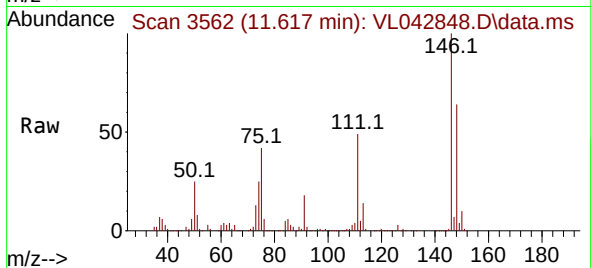
Tgt Ion:105 Resp: 691709
Ion Ratio Lower Upper
105 100
120 48.3 39.8 59.6
91 62.2 54.2 81.4
77 23.2 19.8 29.6





#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

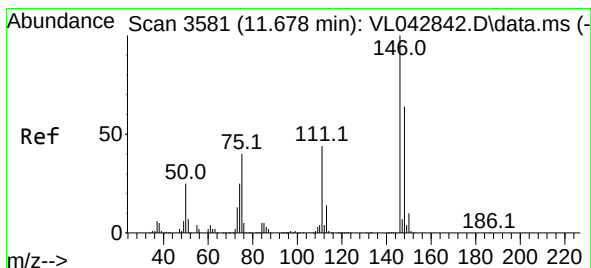
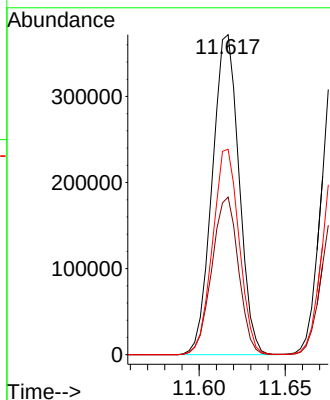
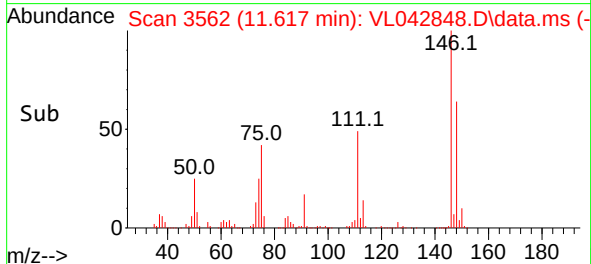
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



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

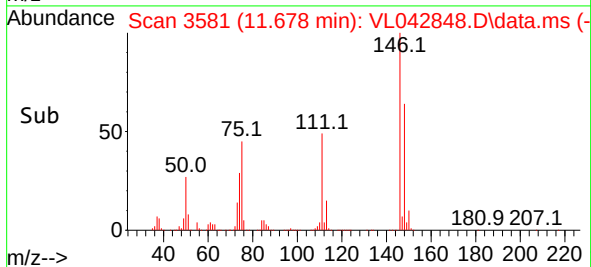
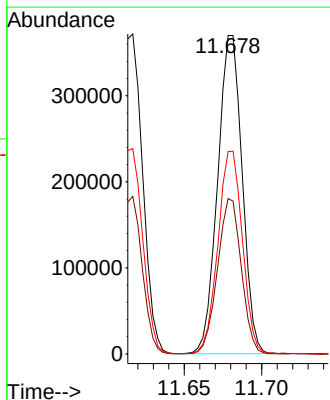
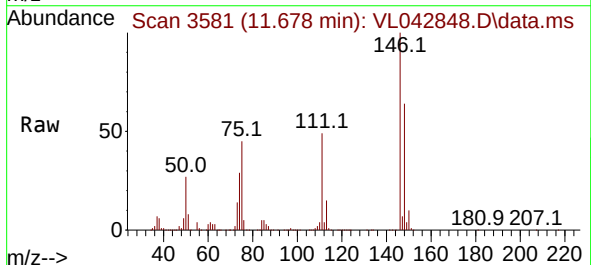
Manual Integrations
APPROVED

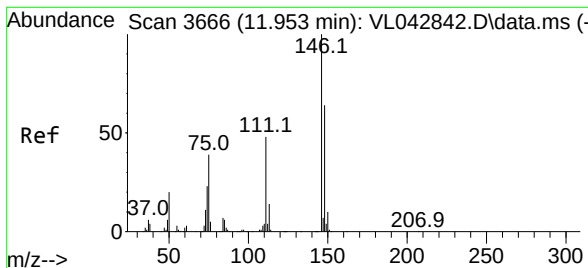
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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# 3666

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: 385860

Ion Ratio Lower Upper

146 100

111 50.2 24.6 74.0

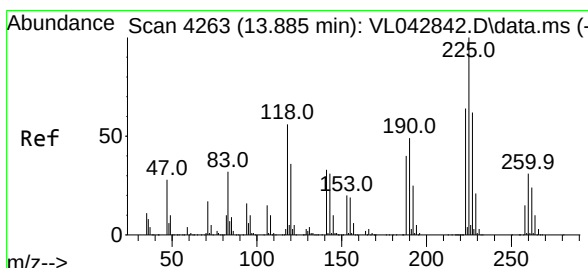
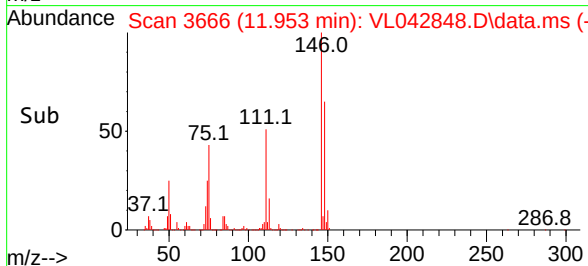
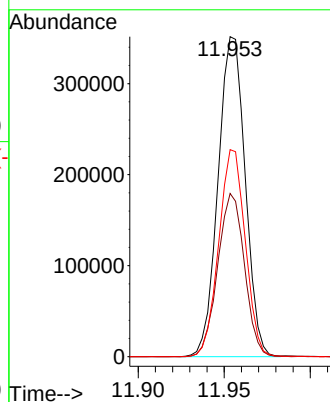
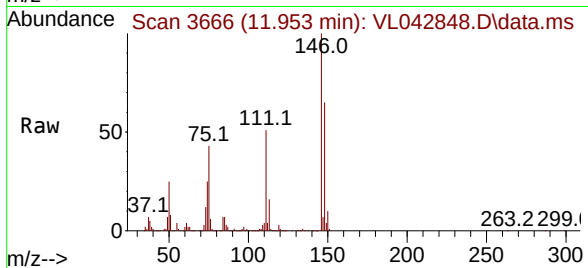
148 63.3 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 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

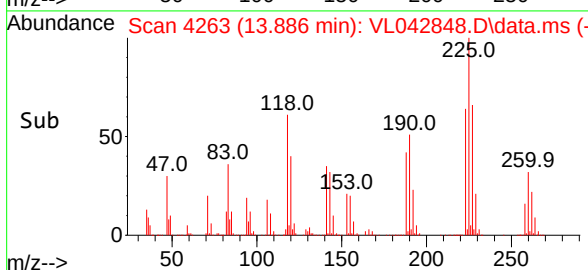
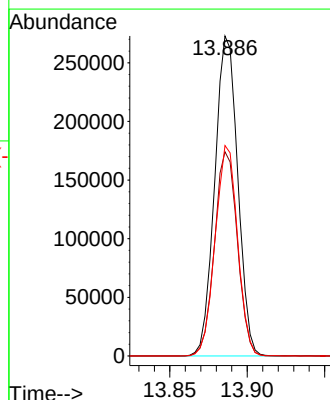
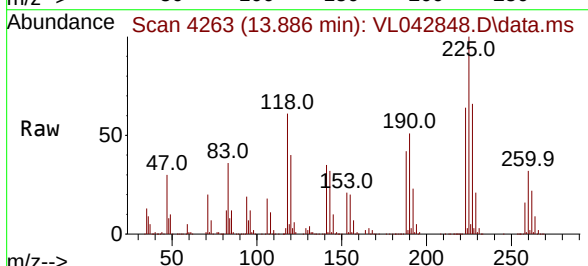
Tgt Ion:225 Resp: 281581

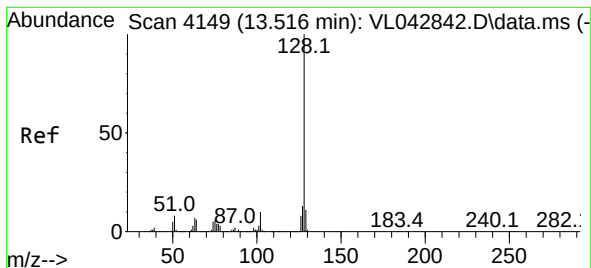
Ion Ratio Lower Upper

225 100

223 63.6 51.4 77.2

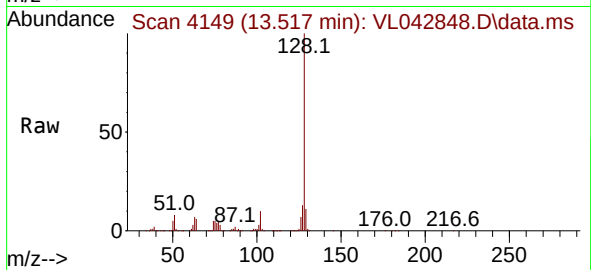
227 64.2 51.9 77.9





#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

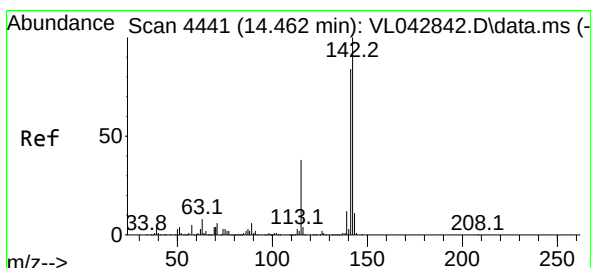
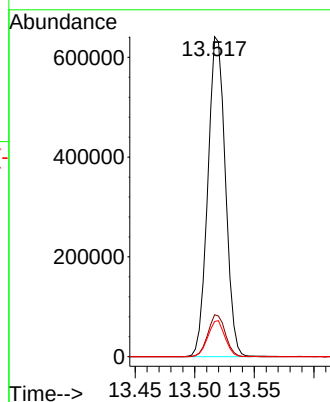
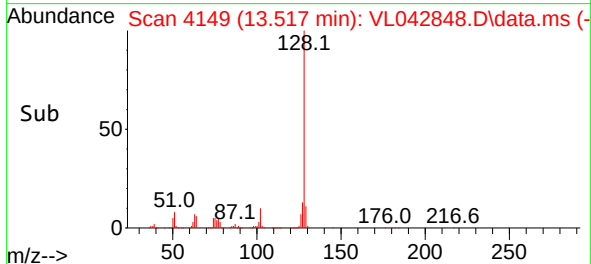
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



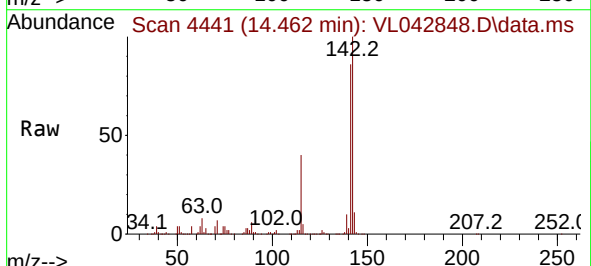
Tgt Ion:128 Resp: 658732
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 11.0 8.9 13.3

Manual Integrations
APPROVED

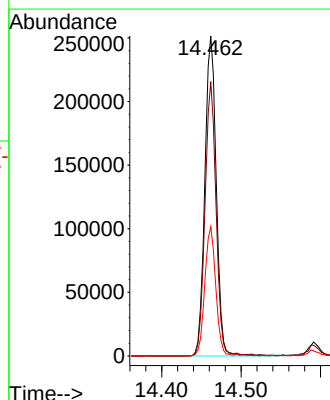
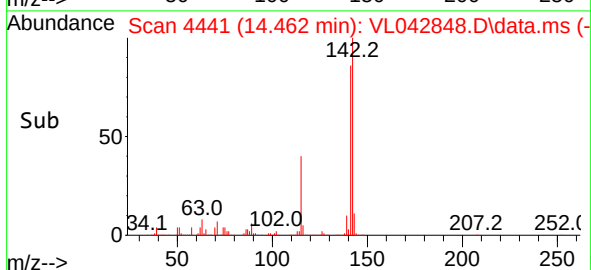
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

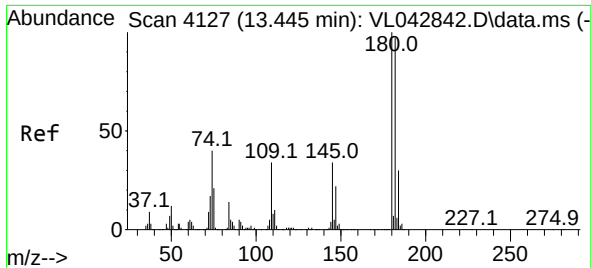


#80
Naphthalene,2-methyl-
Concen: 14.042 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



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

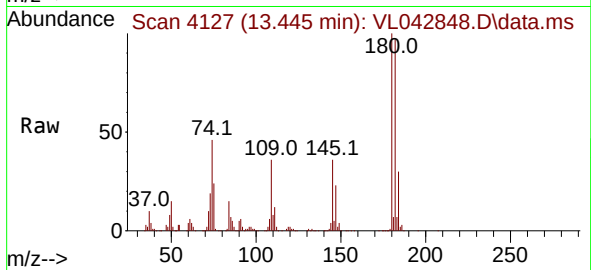
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion:180 Resp: 32964

Ion Ratio Lower Upper

180 100

182 96.2 76.9 115.3

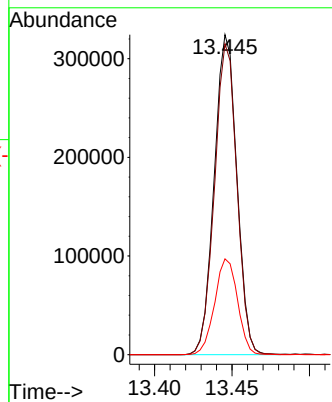
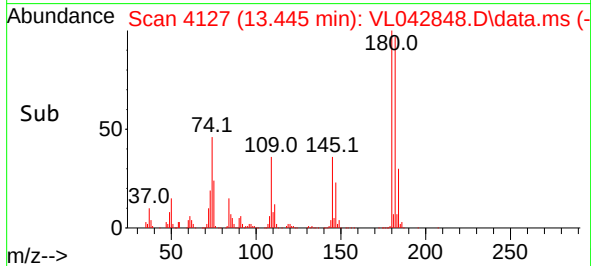
184 30.3 24.5 36.7

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_L Fri 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

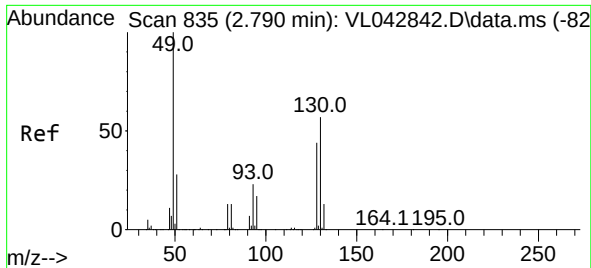
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

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

Response via : Initial Calibration

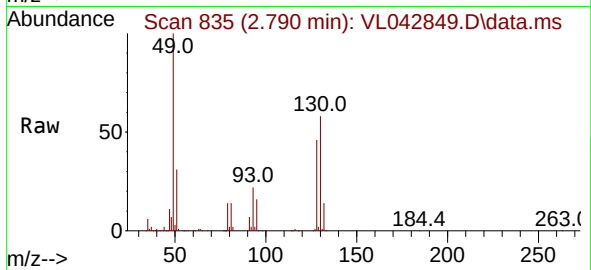
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	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

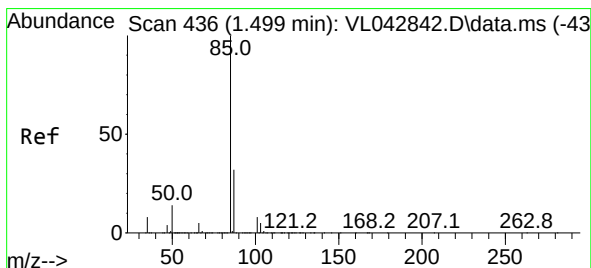
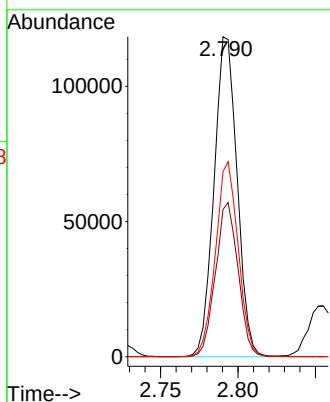
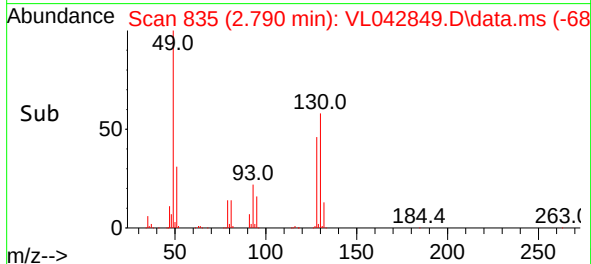
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



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

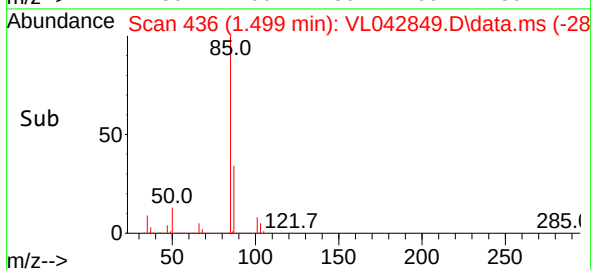
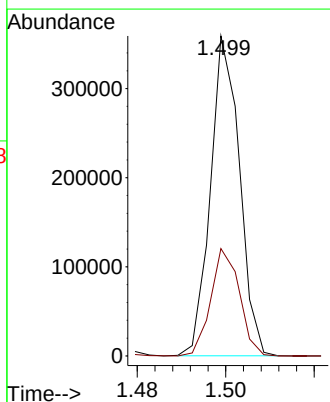
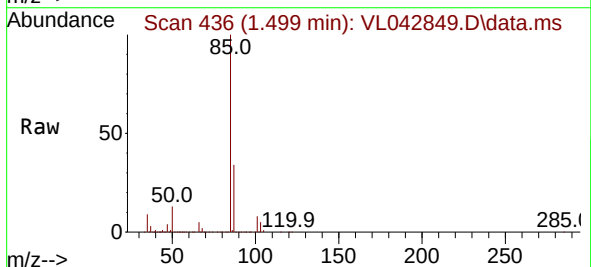
Manual Integrations
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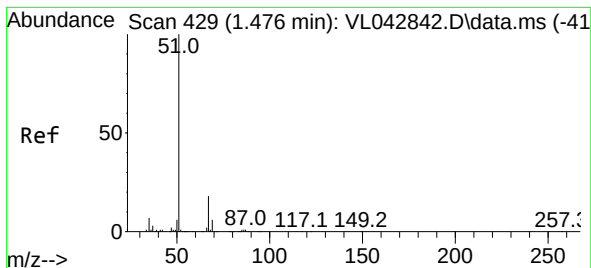
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

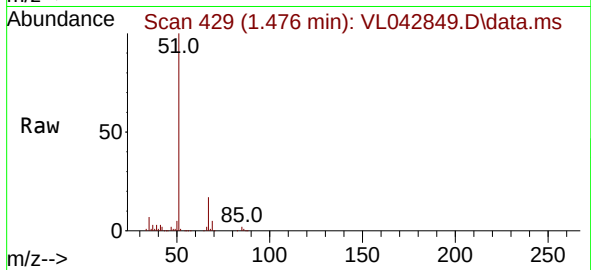
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325



Tgt Ion: 51 Resp: 185078

Ion Ratio Lower Upper

51 100

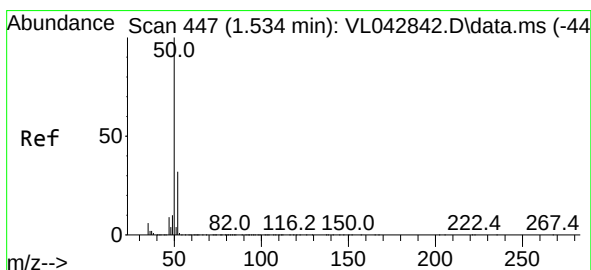
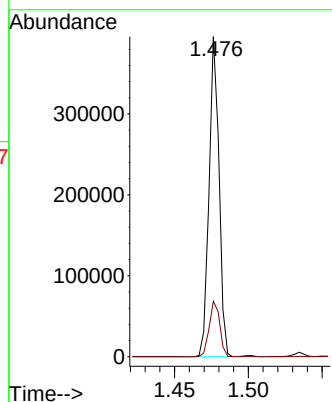
67 18.6 14.9 22.3

Manual Integrations

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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

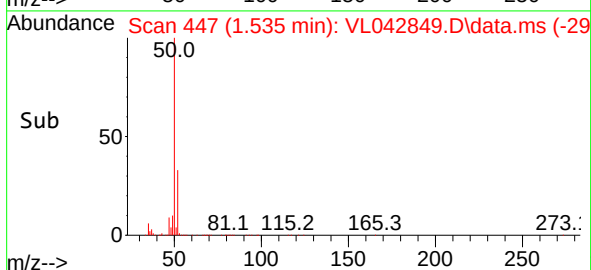
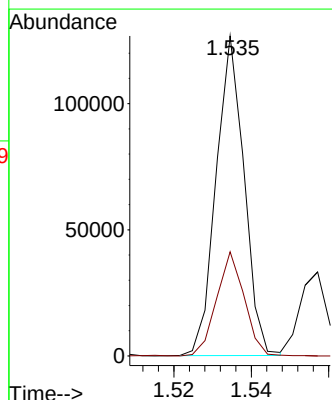
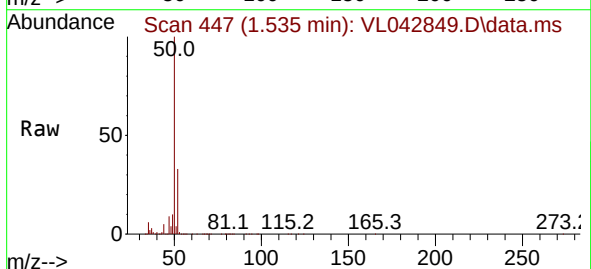
Acq: 13 Aug 2025 12:56

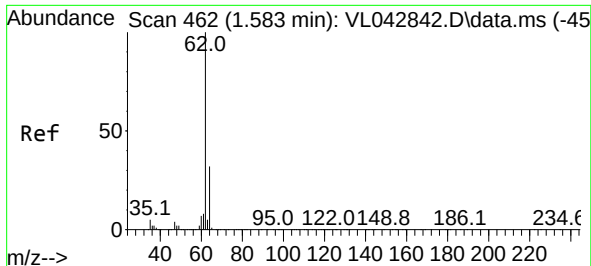
Tgt Ion: 50 Resp: 63634

Ion Ratio Lower Upper

50 100

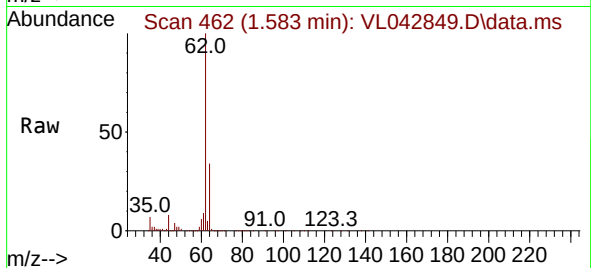
52 32.6 25.9 38.9





#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

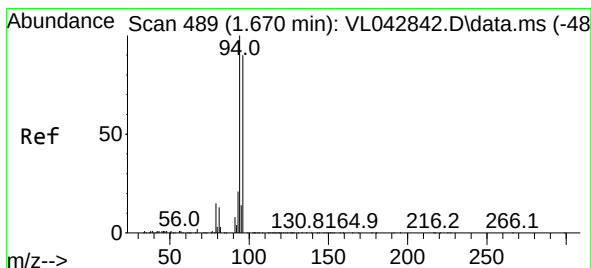
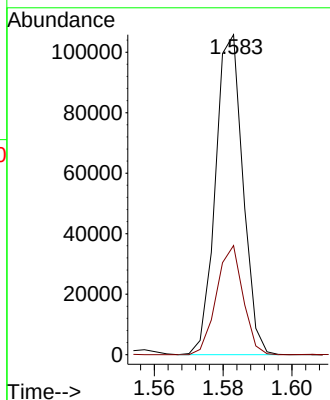
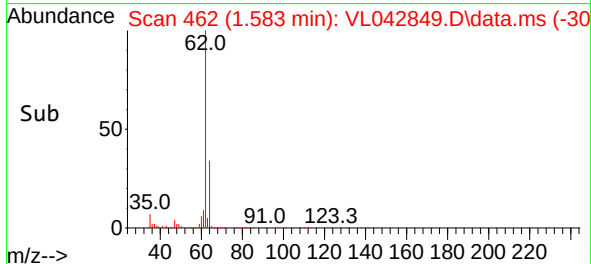
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



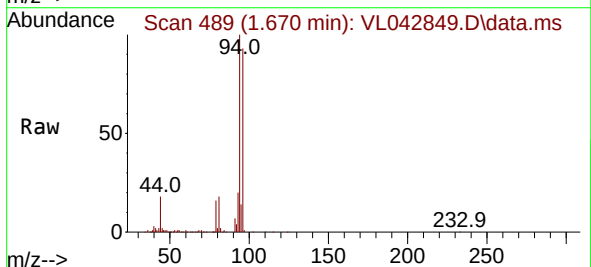
Tgt Ion: 62 Resp: 58729
 Ion Ratio Lower Upper
 62 100
 64 34.1 25.4 38.2

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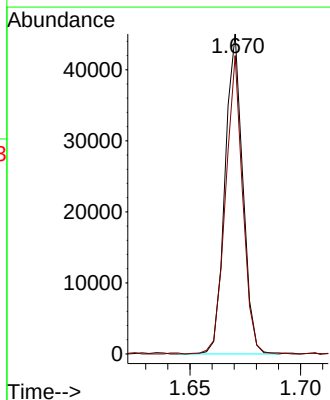
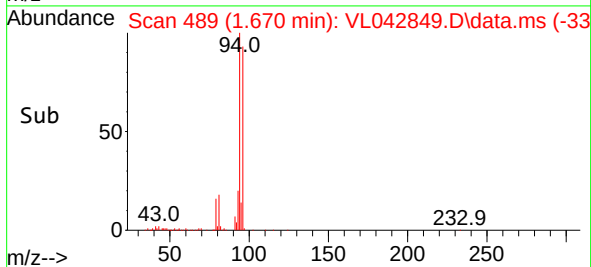
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

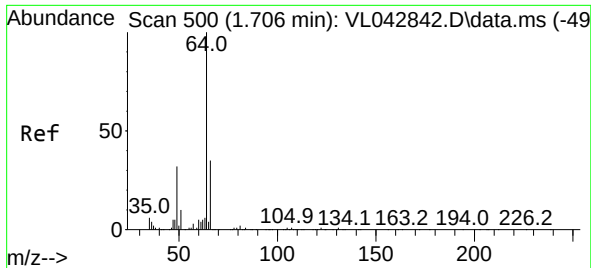


#6
 Bromomethane
 Concen: 8.801 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



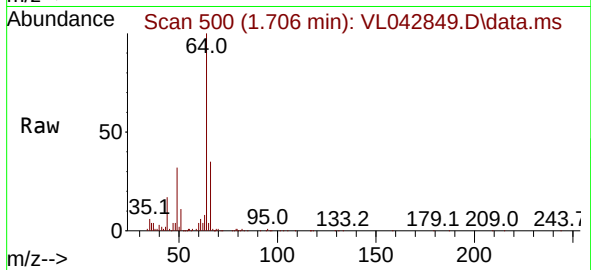
Tgt Ion: 94 Resp: 25105
 Ion Ratio Lower Upper
 94 100
 96 92.9 72.1 108.1





#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

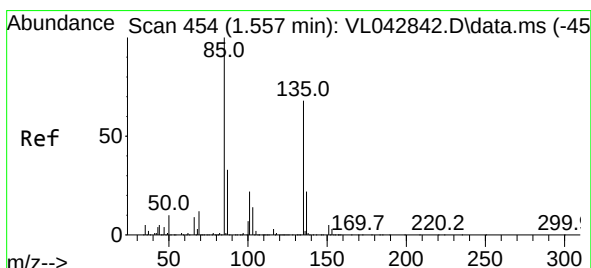
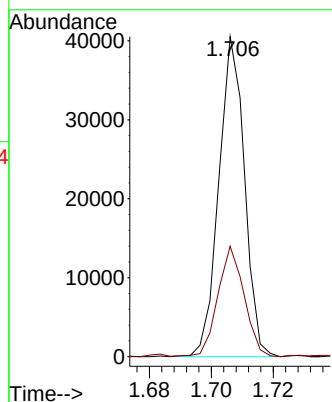
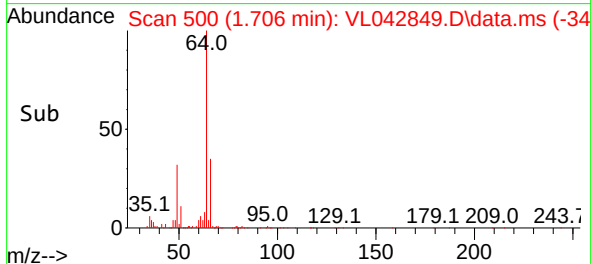
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



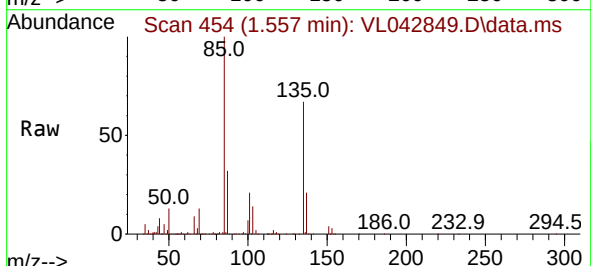
Tgt Ion: 64 Resp: 2329
Ion Ratio Lower Upper
64 100
66 34.5 28.6 42.8

Manual Integrations
APPROVED

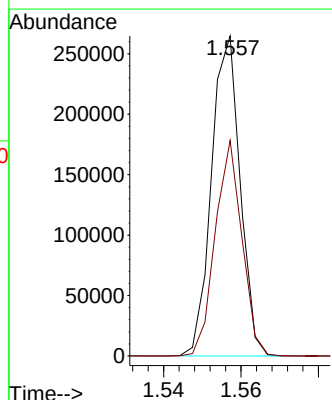
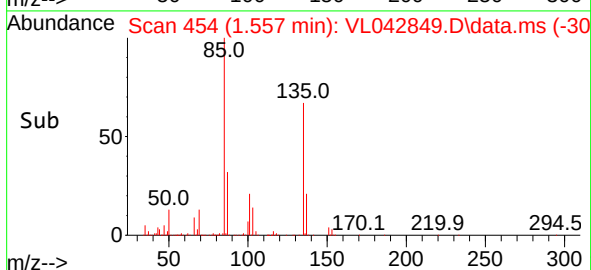
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

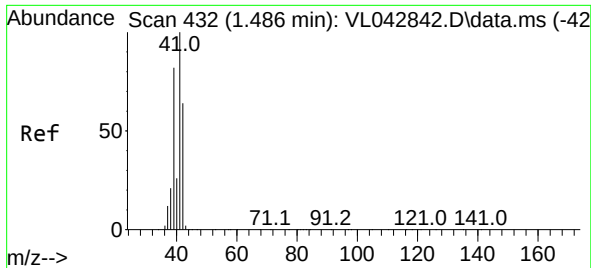


#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



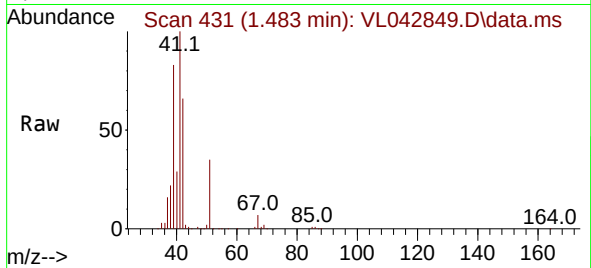
Tgt Ion: 85 Resp: 135845
Ion Ratio Lower Upper
85 100
135 62.9 51.2 76.8





#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

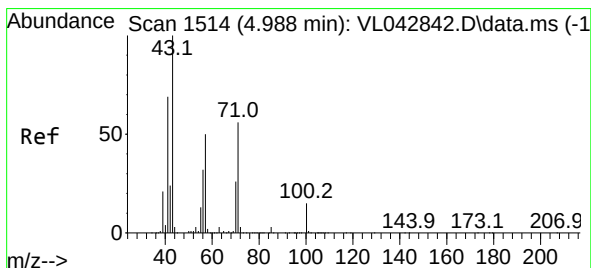
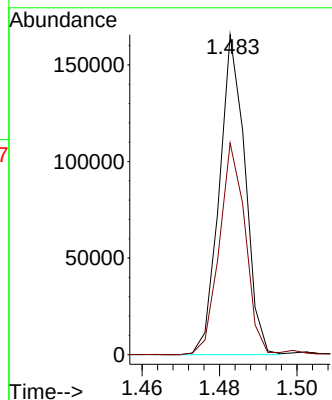
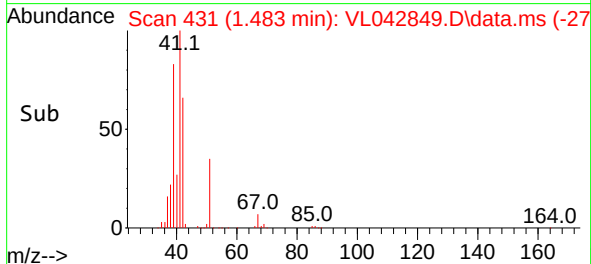
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



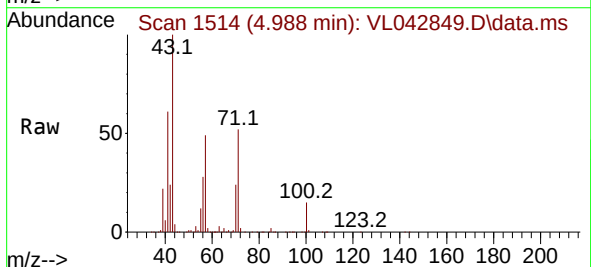
Tgt Ion: 41 Resp: 7645
 Ion Ratio Lower Upper
 41 100
 42 68.4 53.0 79.4

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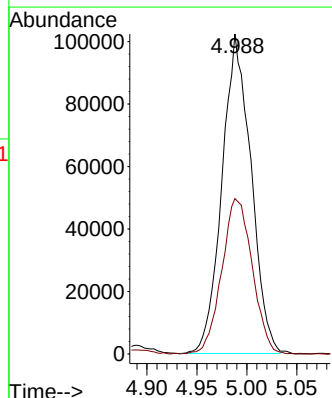
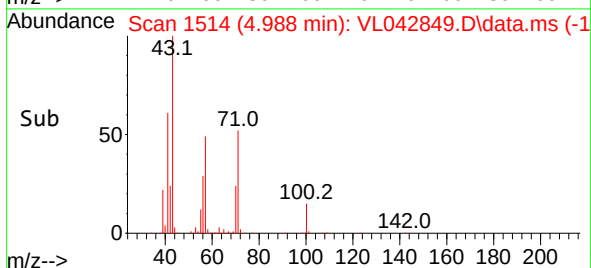
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

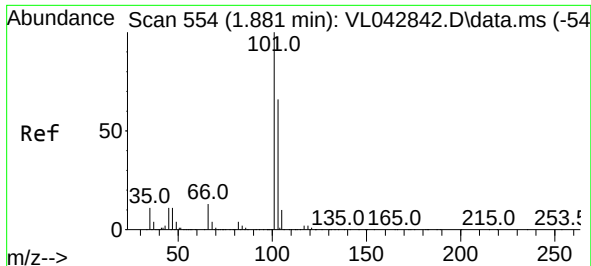


#10
 Heptane
 Concen: 8.990 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



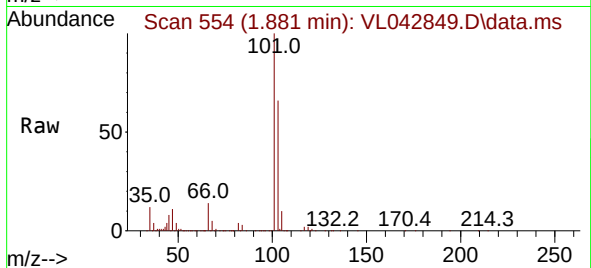
Tgt Ion: 43 Resp: 206333
 Ion Ratio Lower Upper
 43 100
 57 51.2 41.4 62.0





#11
Trichlorofluoromethane
Concen: 8.707 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

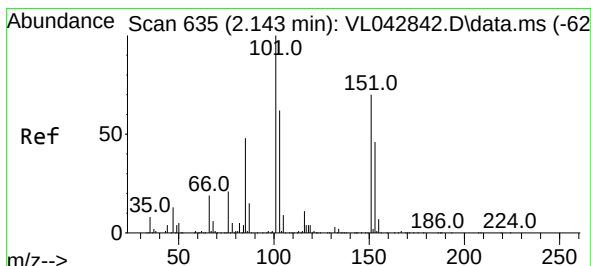
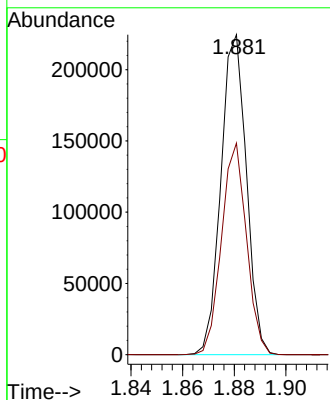
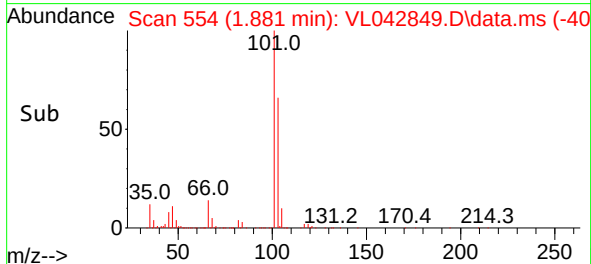
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



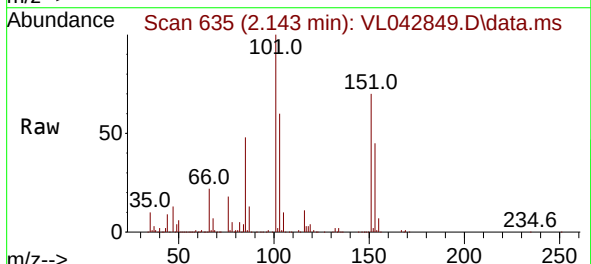
Tgt Ion:101 Resp: 15421
Ion Ratio Lower Upper
101 100
103 66.1 52.5 78.7

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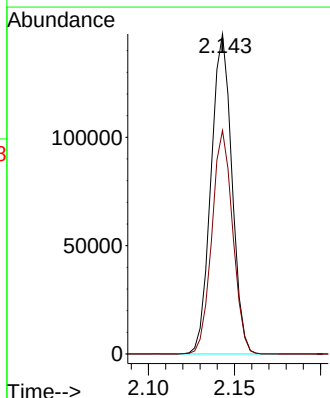
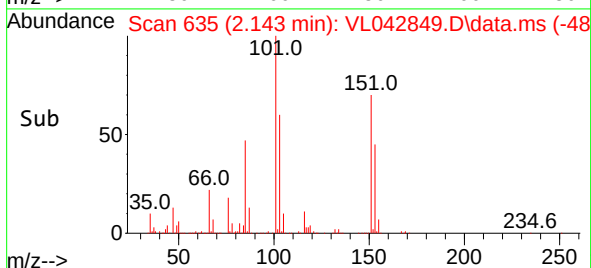
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

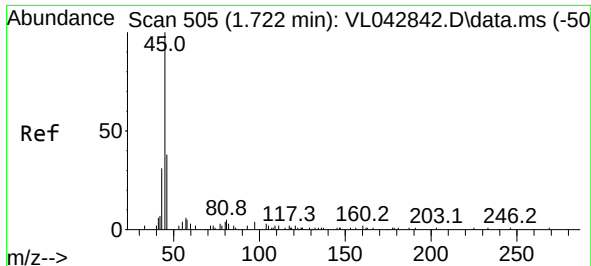


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.824 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion:101 Resp: 124558
Ion Ratio Lower Upper
101 100
151 69.7 56.4 84.6





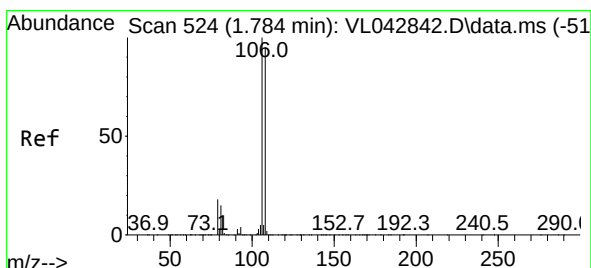
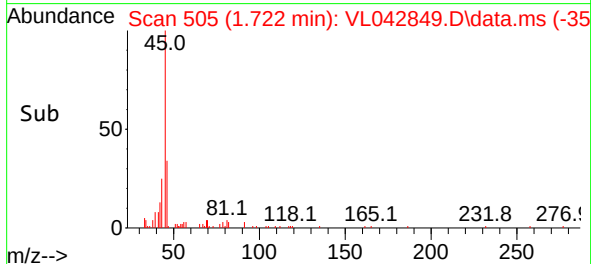
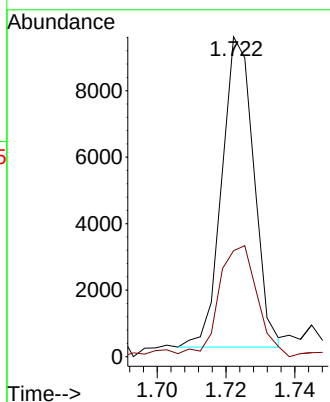
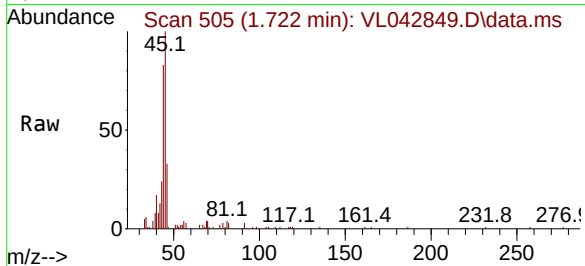
#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument : MSVOA_L
ClientSampleId : ICVVL081325

Tgt Ion: 45 Resp: 6010
Ion Ratio Lower Upper
45 100
46 46.2 17.5 69.9

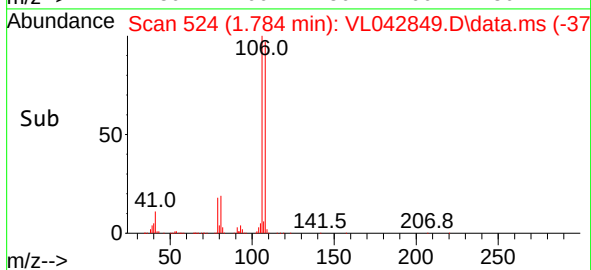
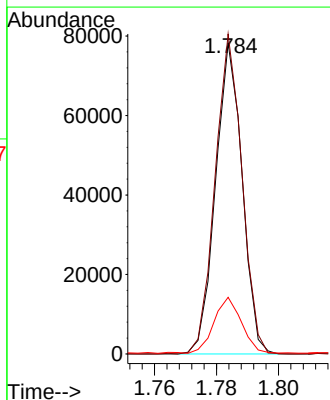
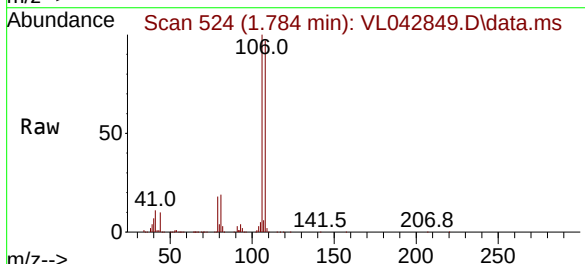
Manual Integrations
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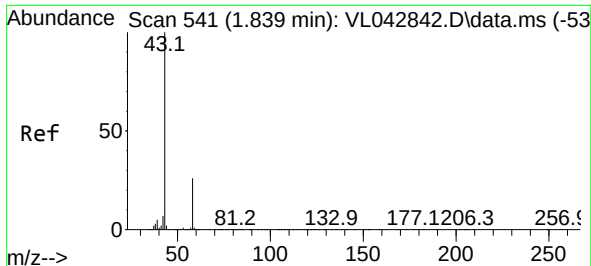
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

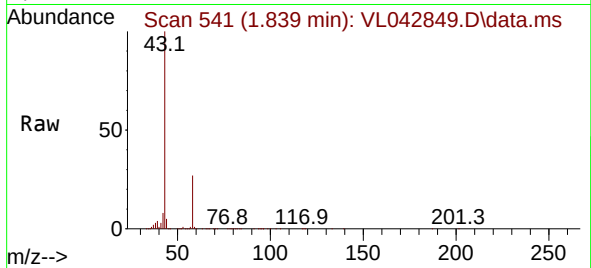
Tgt Ion:108 Resp: 46528
Ion Ratio Lower Upper
108 100
106 104.1 85.1 127.7
79 19.8 16.3 24.5





#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

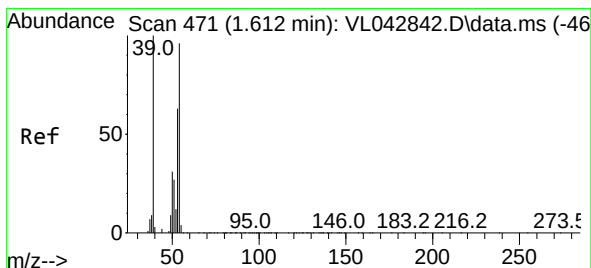
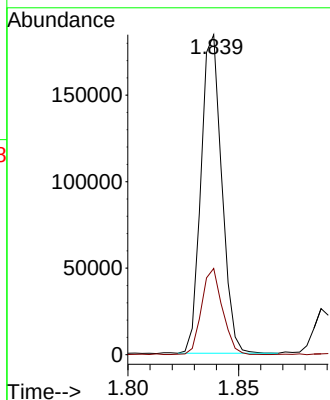
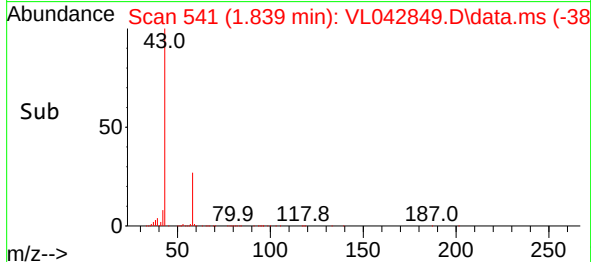
Instrument : MSVOA_L
Client Sample Id : ICVVL081325



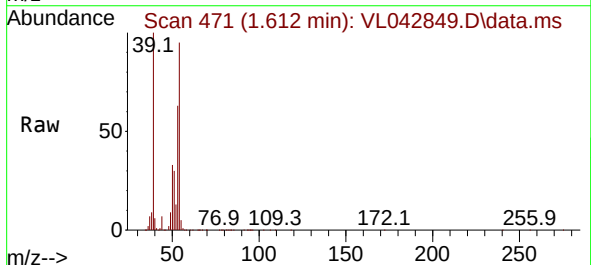
Tgt Ion: 43 Resp: 119723
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

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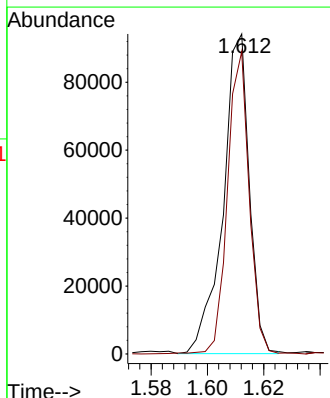
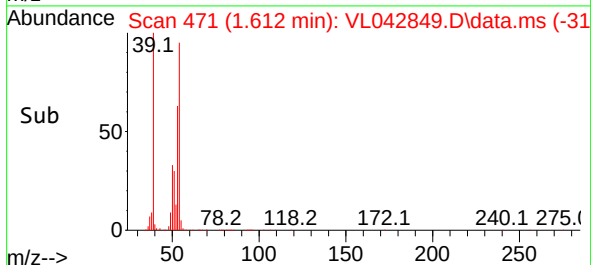
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

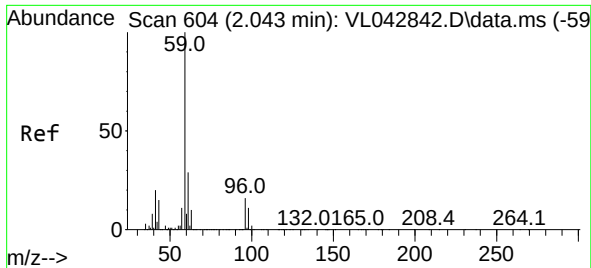


#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



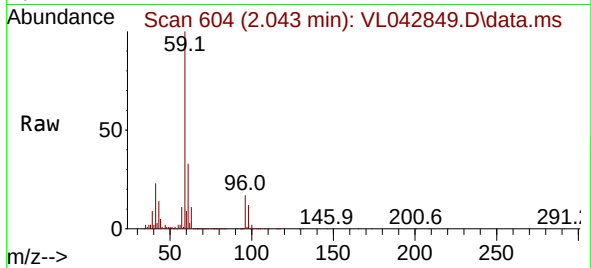
Tgt Ion: 39 Resp: 60853
Ion Ratio Lower Upper
39 100
54 78.9 63.6 95.4





#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

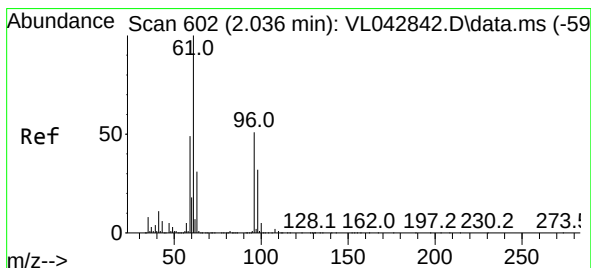
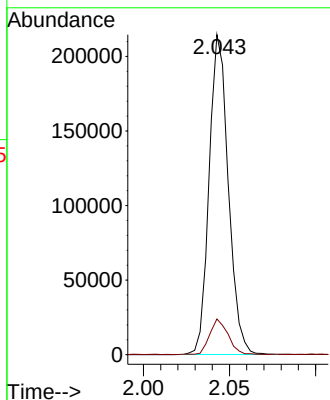
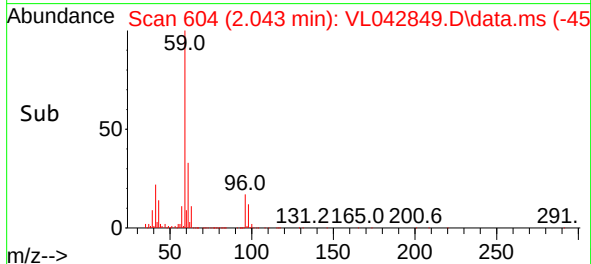
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



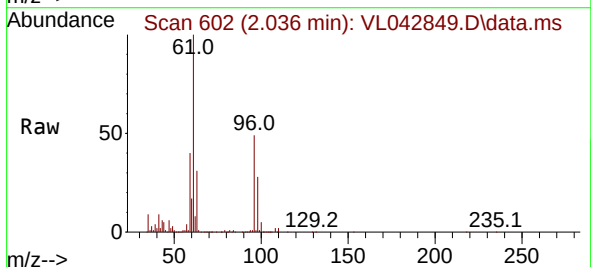
Tgt Ion: 59 Resp: 16645
Ion Ratio Lower Upper
59 100
57 10.7 9.0 13.4

Manual Integrations
APPROVED

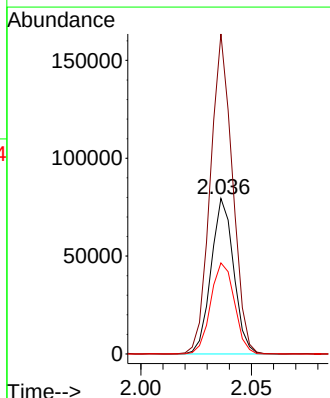
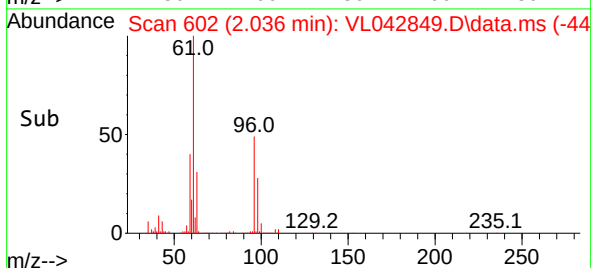
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

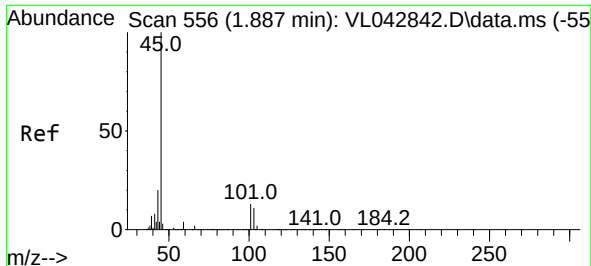


#18
1,1-Dichloroethene
Concen: 9.087 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



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





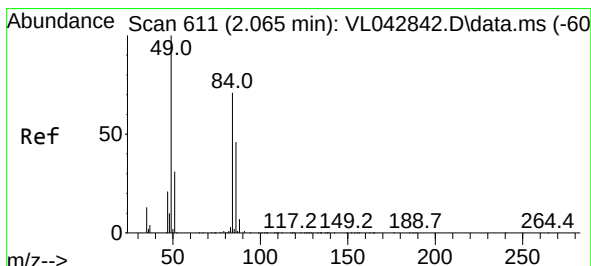
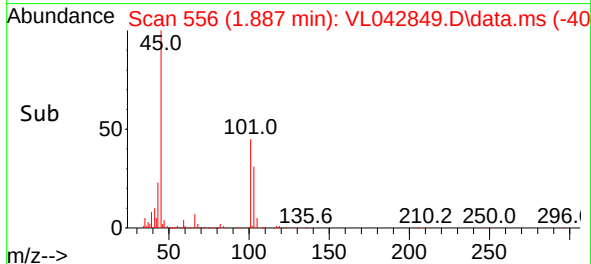
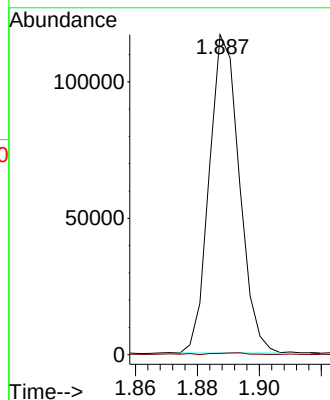
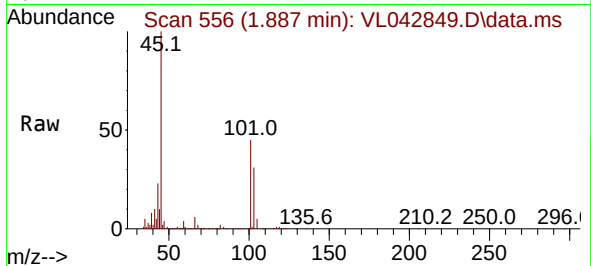
#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 45 Resp: 78832
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

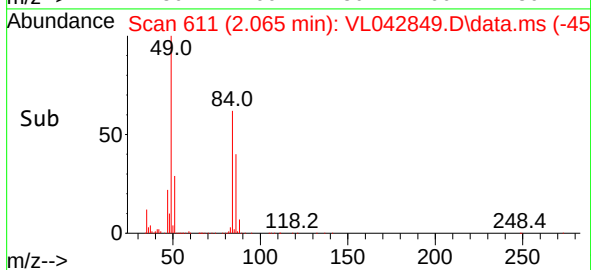
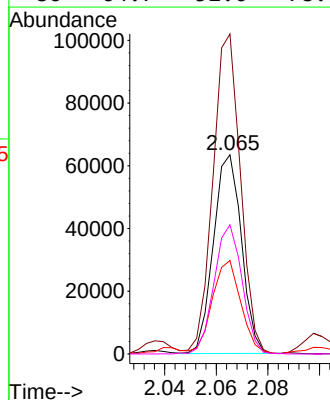
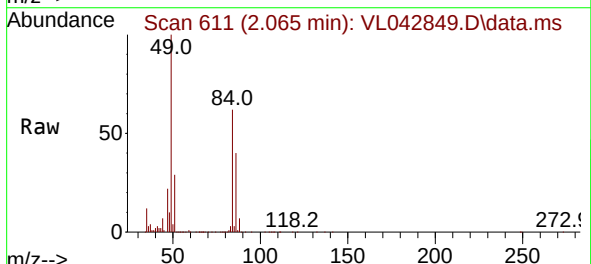
Manual Integrations
APPROVED

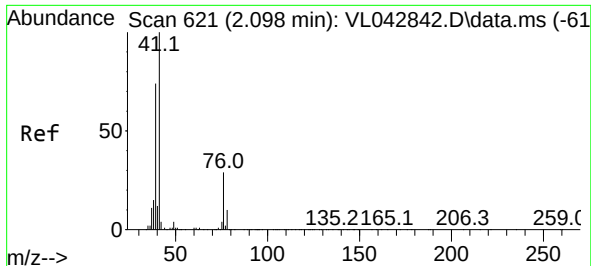
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

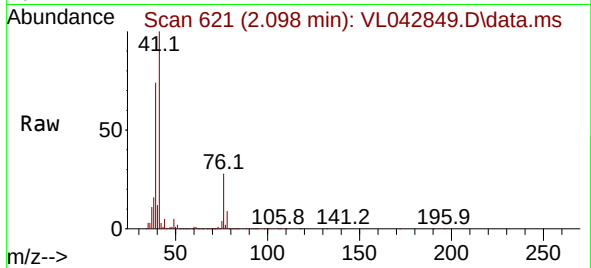
Tgt Ion: 84 Resp: 47793
Ion Ratio Lower Upper
84 100
49 160.7 112.3 168.5
51 46.9 36.0 54.0
86 64.7 52.0 78.0





#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

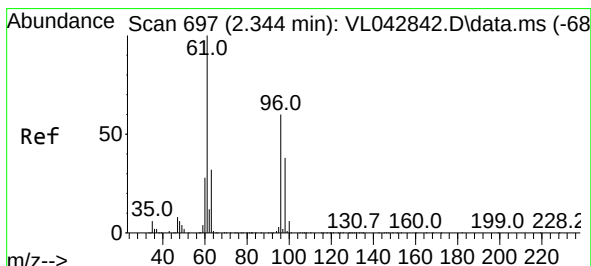
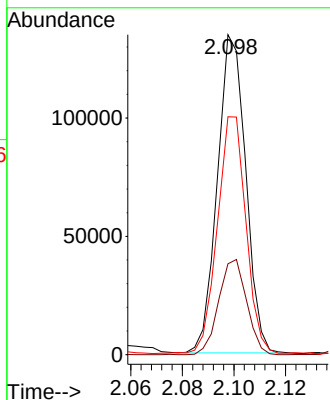
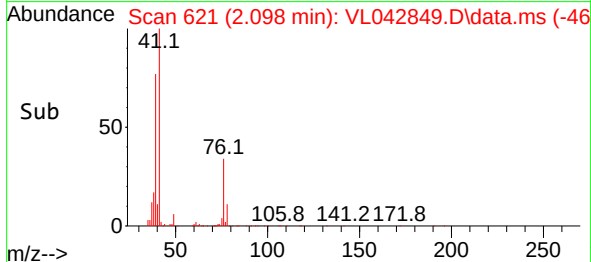
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



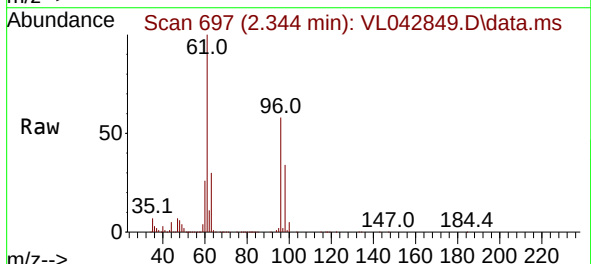
Tgt Ion: 41 Resp: 102514
 Ion Ratio Lower Upper
 41 100
 76 29.5 23.9 35.9
 39 76.1 57.8 86.6

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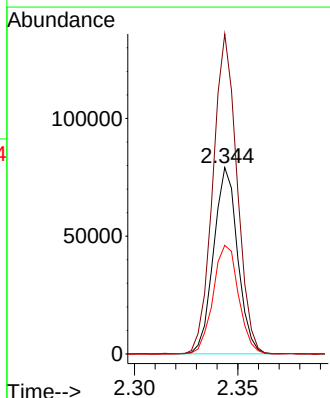
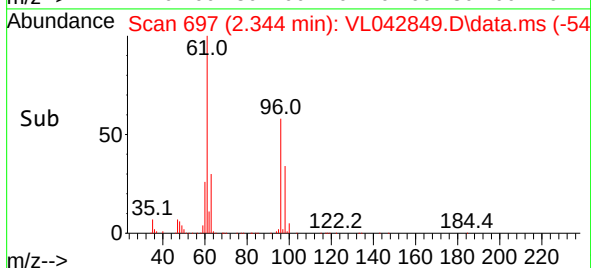
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

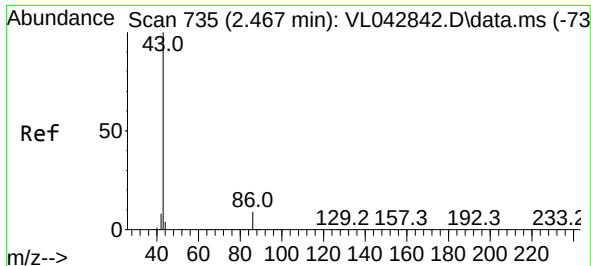


#22
 trans-1,2-Dichloroethene
 Concen: 8.904 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



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





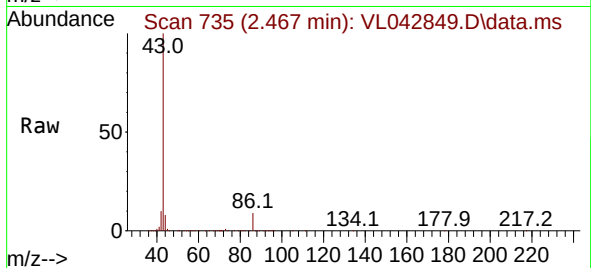
#23
 Vinyl Acetate
 Concen: 8.891 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

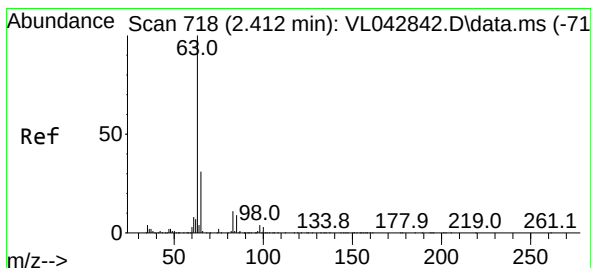
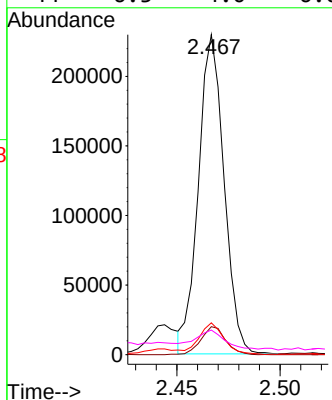
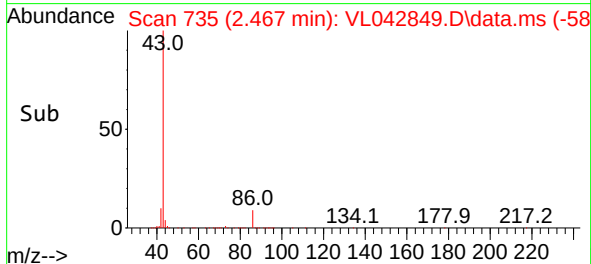
ICVVL081325



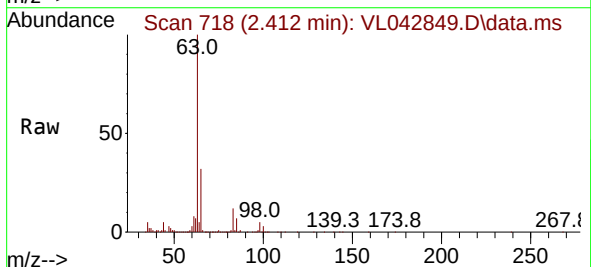
Tgt Ion: 43 Resp: 19808
 Ion Ratio Lower Upper
 43 100
 86 8.8 6.6 9.8
 42 9.8 7.0 10.6
 44 6.3 4.0 6.0#

Manual Integrations
 APPROVED

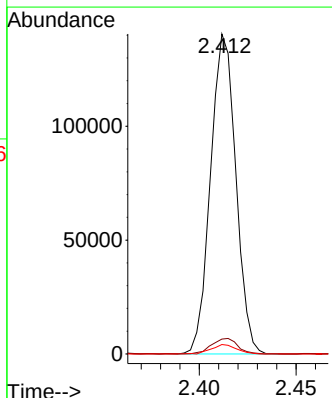
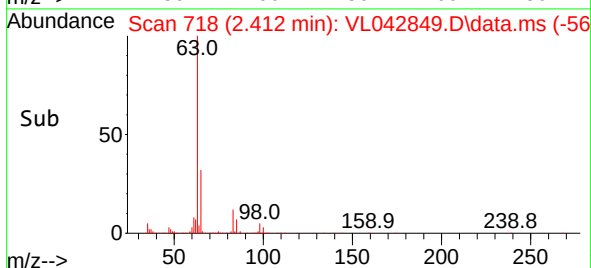
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

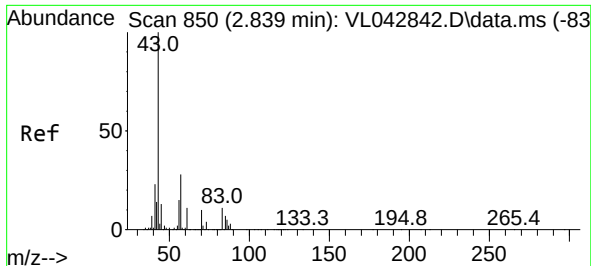


#24
 1,1-Dichloroethane
 Concen: 8.903 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



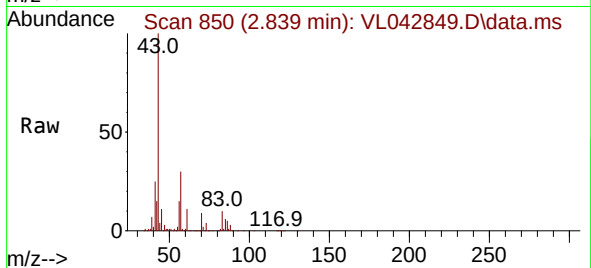
Tgt Ion: 63 Resp: 127660
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.1 6.5
 100 3.0 1.7 5.1





#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

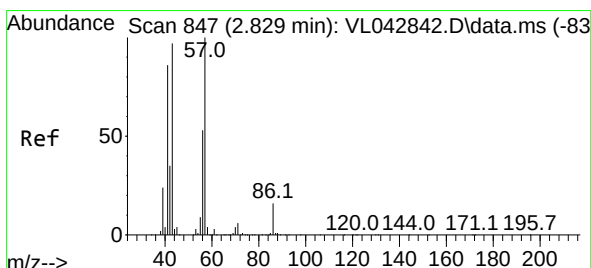
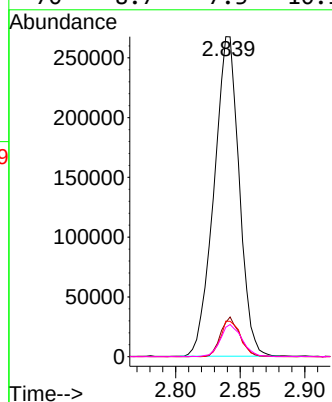
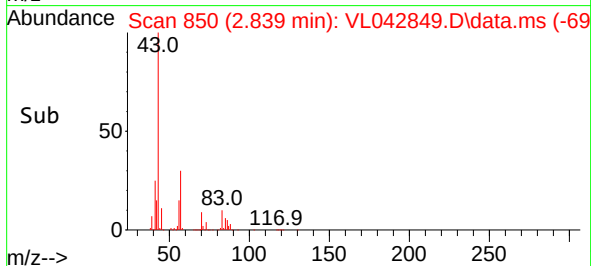
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion	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

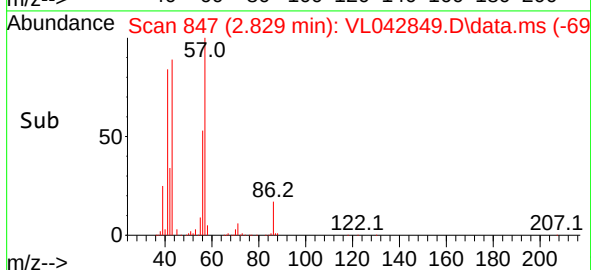
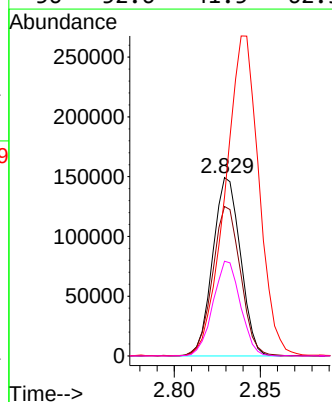
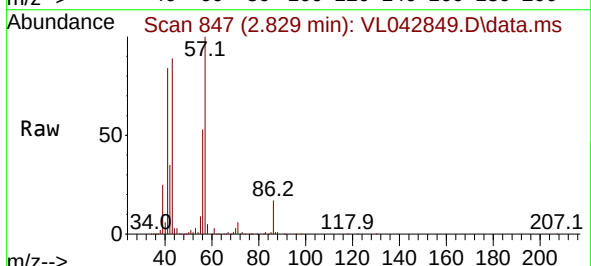
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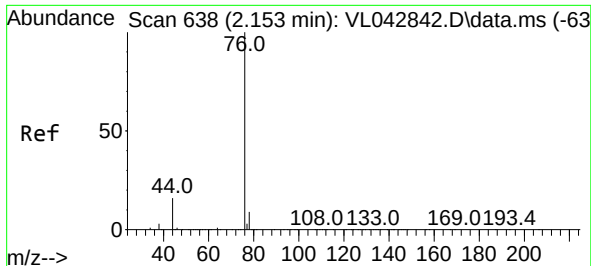
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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	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

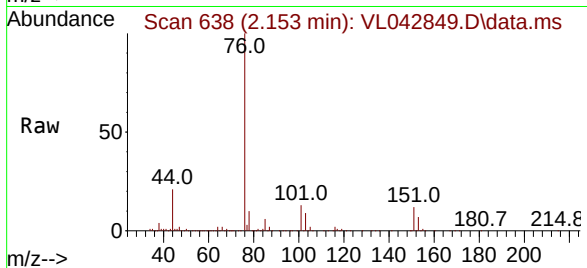
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

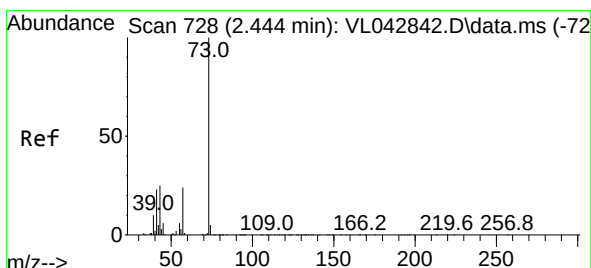
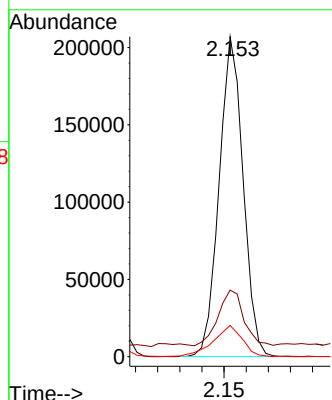
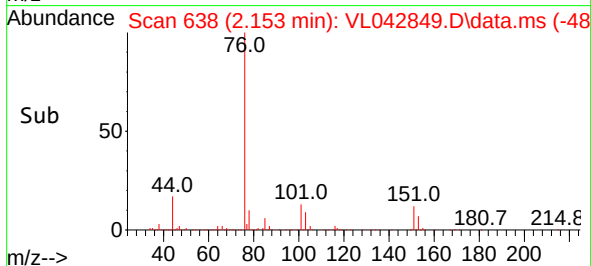


Tgt Ion:	76	Resp:	155729
Ion Ratio	100	Lower	15.9
Upper	23.9		
76	100		
44	19.2		
78	11.9		

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: 8.898 ppbv

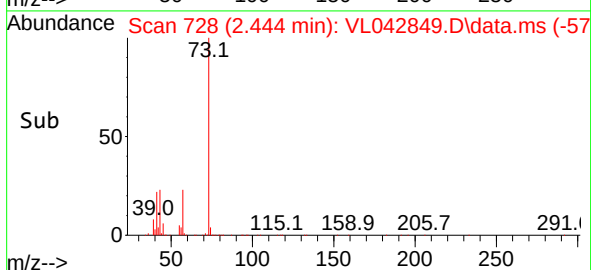
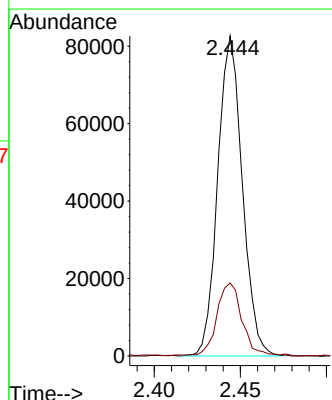
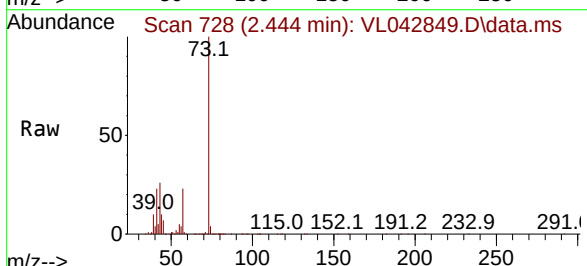
RT: 2.444 min Scan# 728

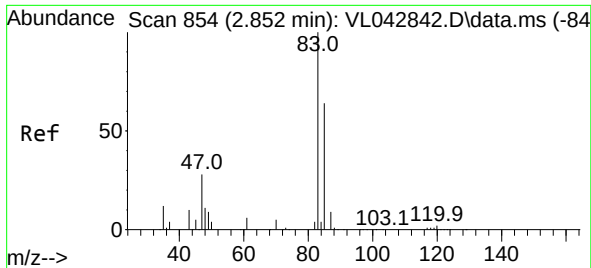
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

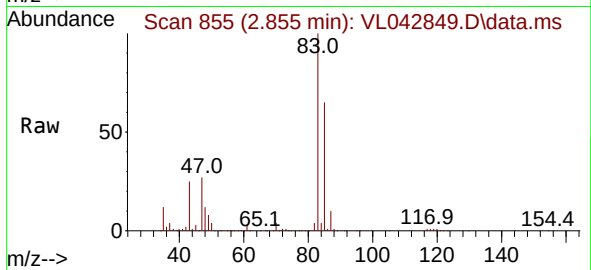
Tgt Ion:	73	Resp:	82126
Ion Ratio	100	Lower	21.6
Upper	32.4		
73	100		
57	22.9		





#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

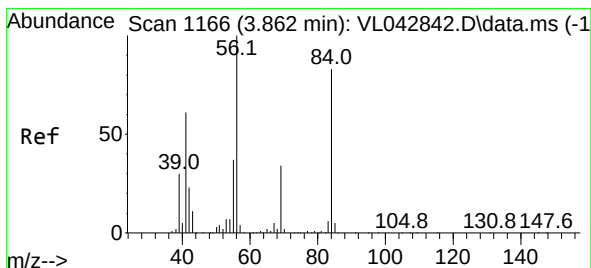
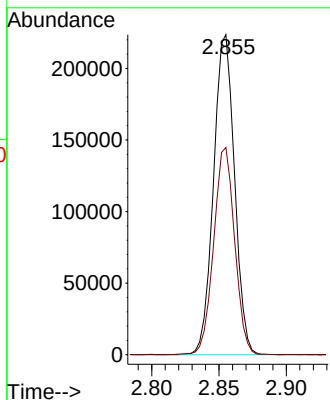
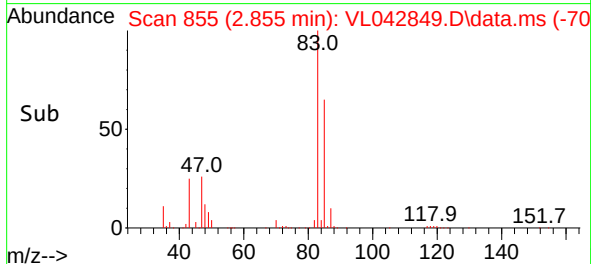
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



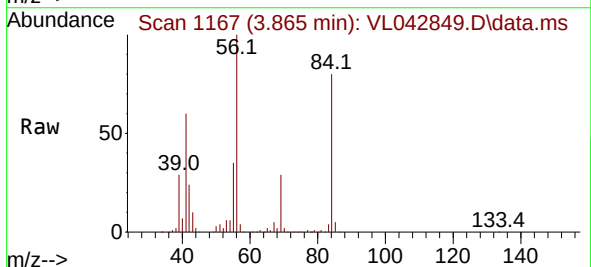
Tgt Ion: 83 Resp: 242320
Ion Ratio Lower Upper
83 100
85 64.8 51.1 76.7

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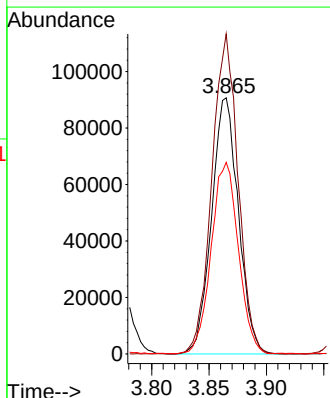
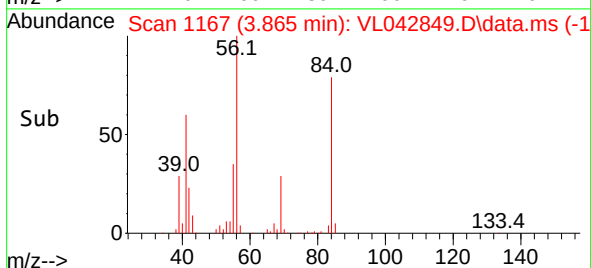
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

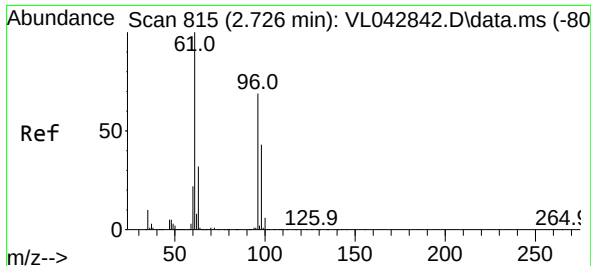


#30
Cyclohexane
Concen: 9.289 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



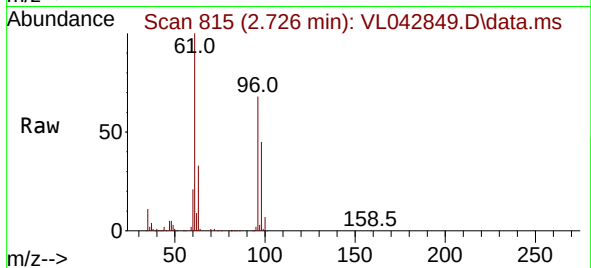
Tgt Ion: 84 Resp: 147417
Ion Ratio Lower Upper
84 100
56 122.1 98.8 148.2
41 75.8 61.3 91.9





#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

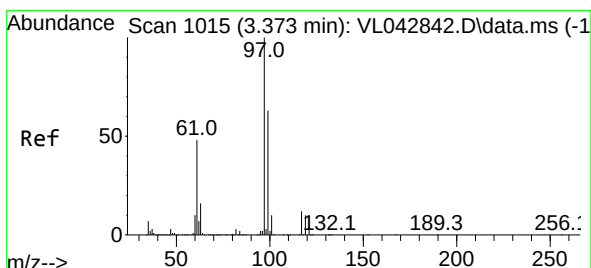
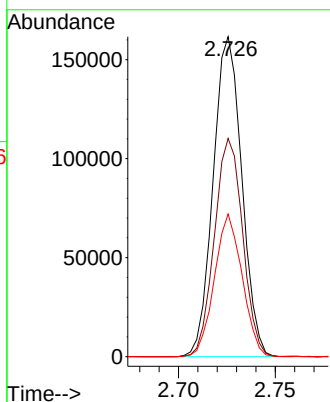
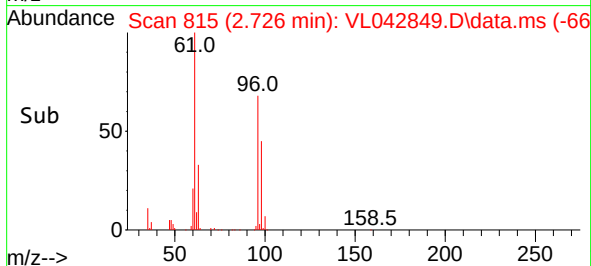
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



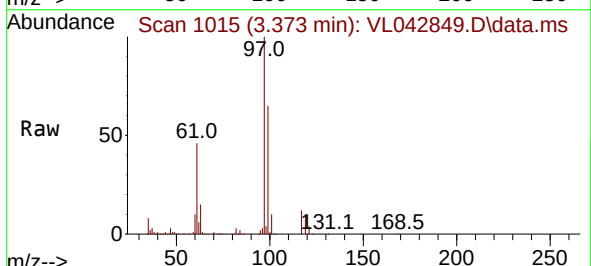
Tgt Ion: 61 Resp: 166268
 Ion Ratio Lower Upper
 61 100
 96 68.2 55.0 82.6
 98 44.5 34.3 51.5

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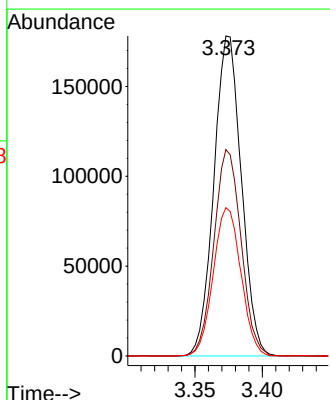
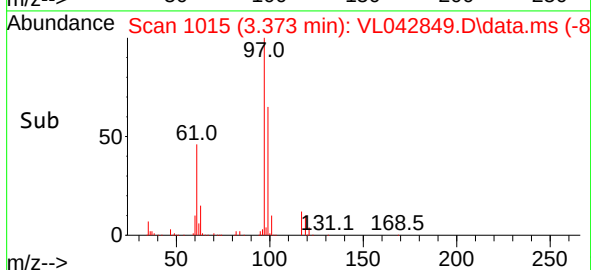
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

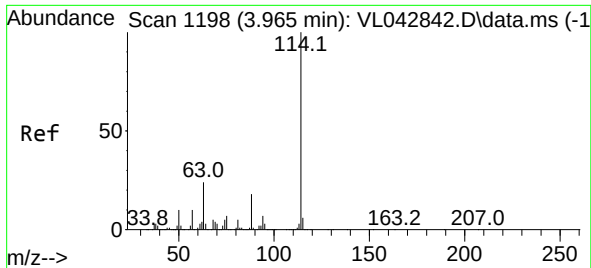


#32
 1,1,1-Trichloroethane
 Concen: 9.256 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



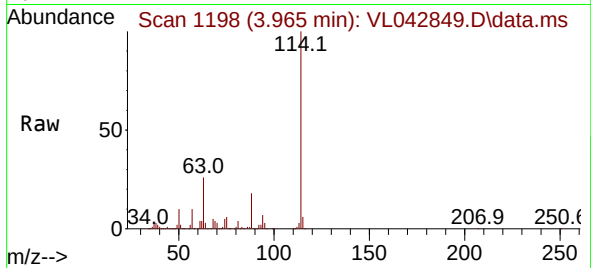
Tgt Ion: 97 Resp: 252813
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 46.7 38.0 57.0





#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

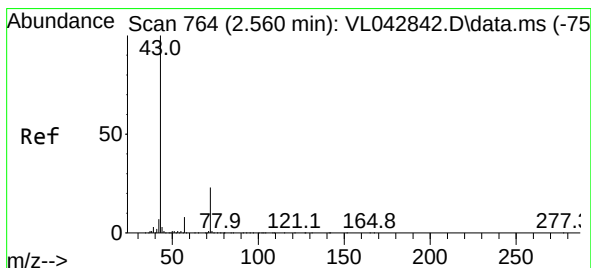
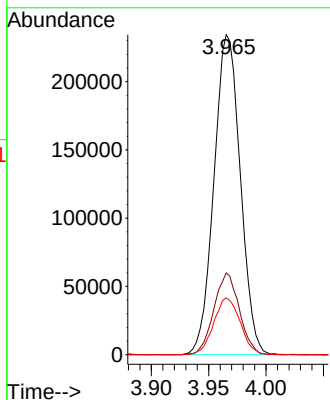
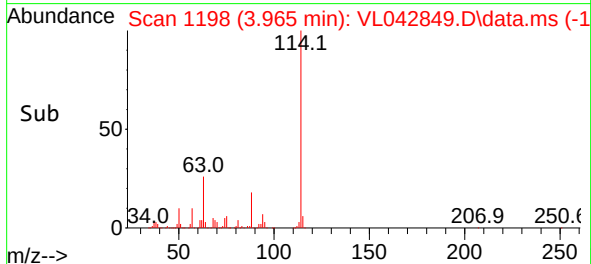
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



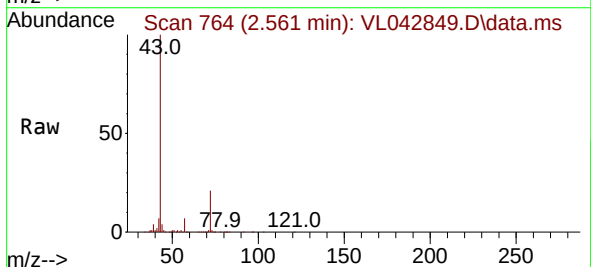
Tgt Ion:114 Resp: 374448
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 17.9 14.4 21.6

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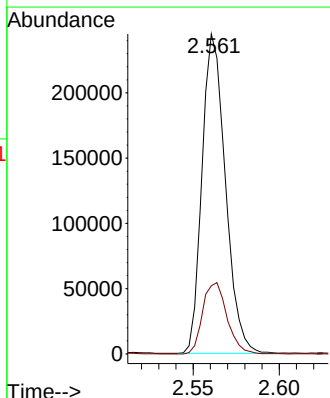
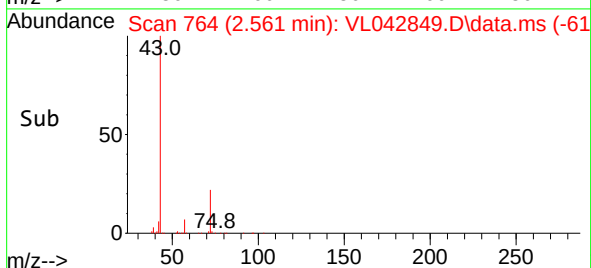
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

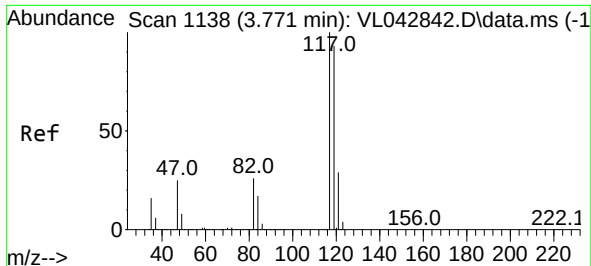


#34
2-Butanone
Concen: 9.135 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



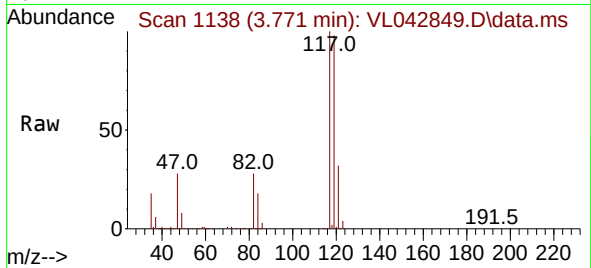
Tgt Ion: 43 Resp: 230961
Ion Ratio Lower Upper
43 100
72 23.4 18.6 28.0





#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

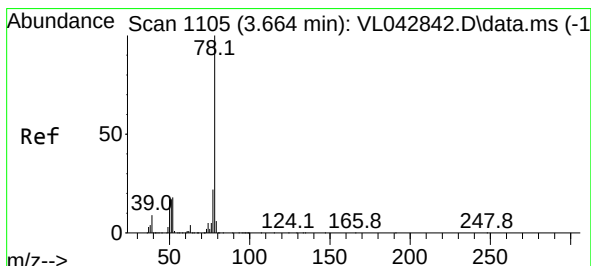
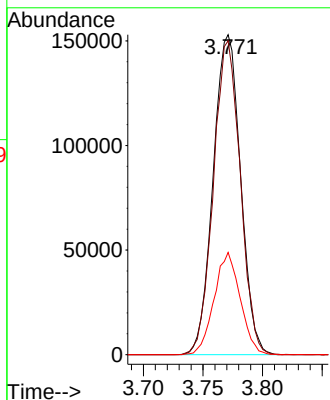
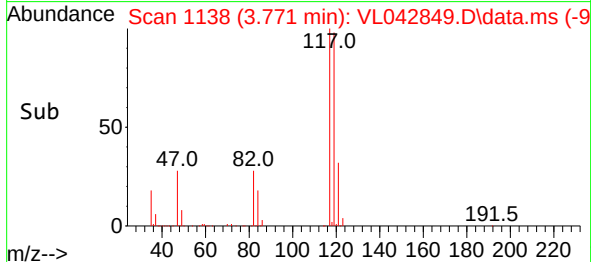
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



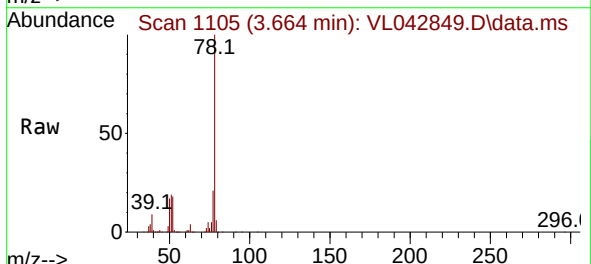
Tgt Ion: 117 Resp: 244672
Ion Ratio Lower Upper
117 100
119 98.1 74.7 112.1
121 32.0 23.2 34.8

Manual Integrations
APPROVED

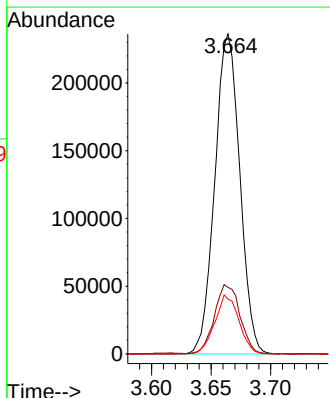
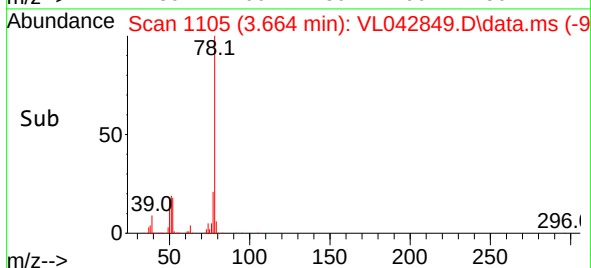
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

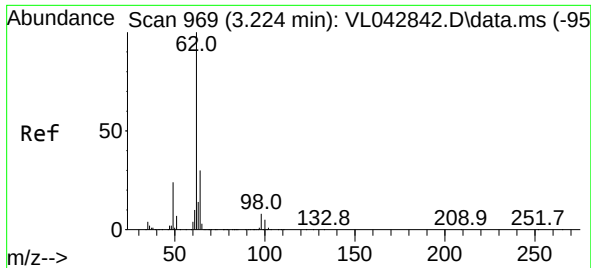


#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



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





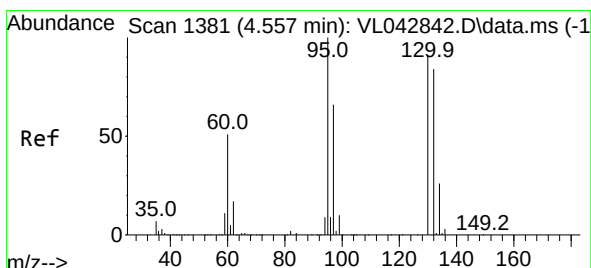
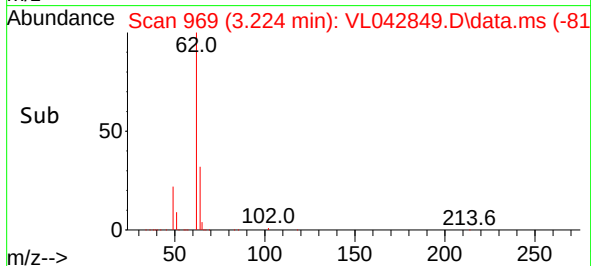
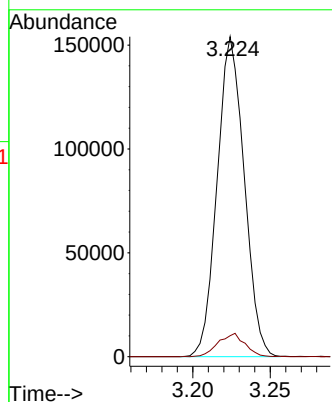
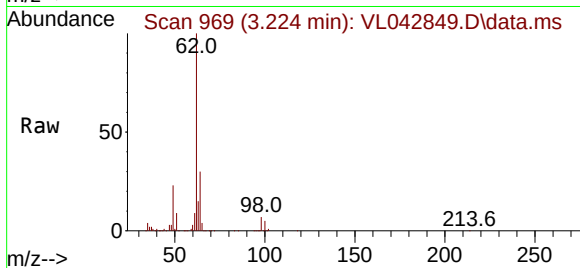
#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 62 Resp: 187160
Ion Ratio Lower Upper
62 100
98 7.2 5.9 8.9

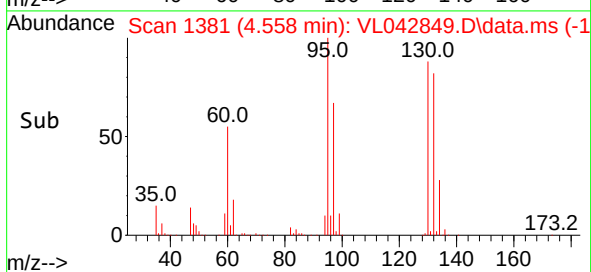
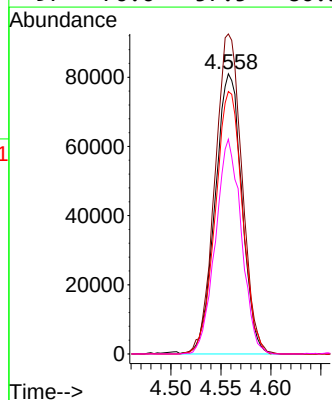
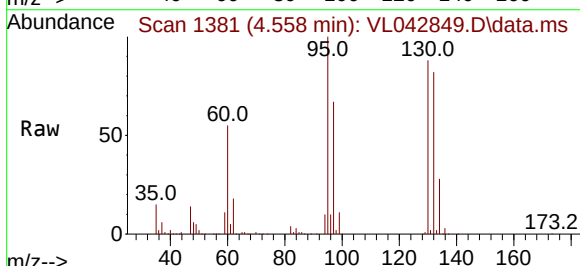
Manual Integrations
APPROVED

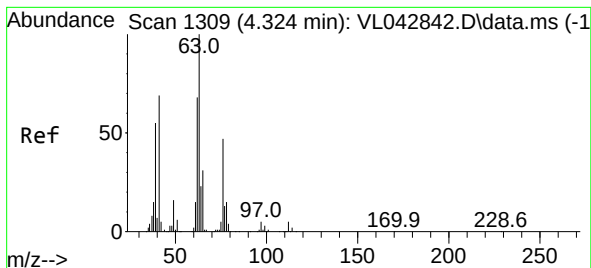
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

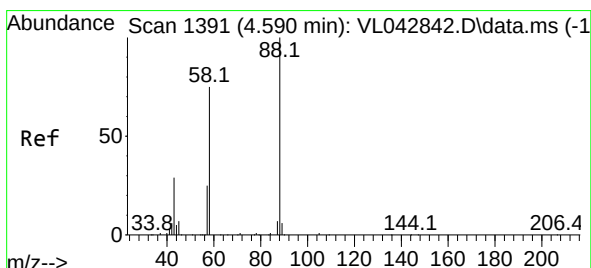
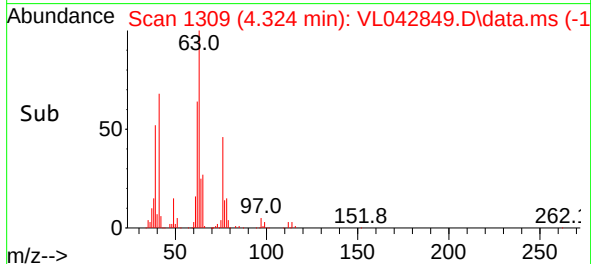
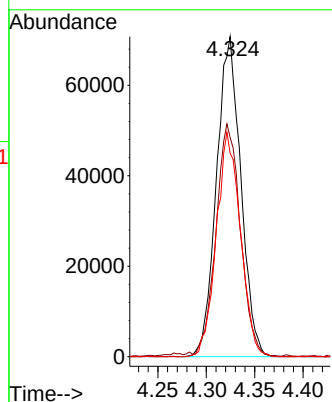
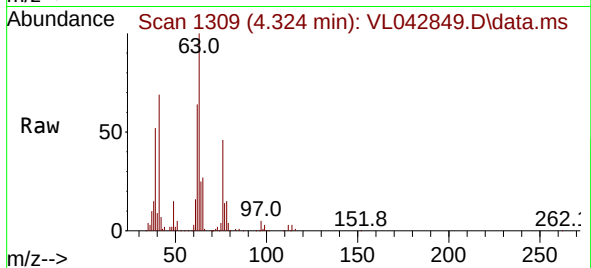
ICVVL081325

Tgt Ion:	63	Resp:	12356
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

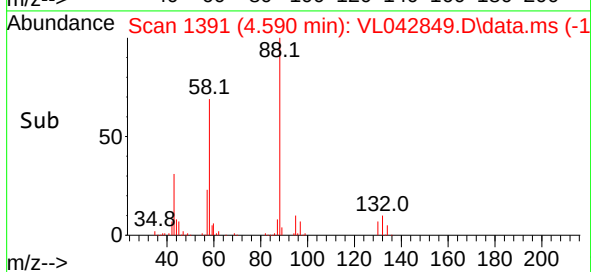
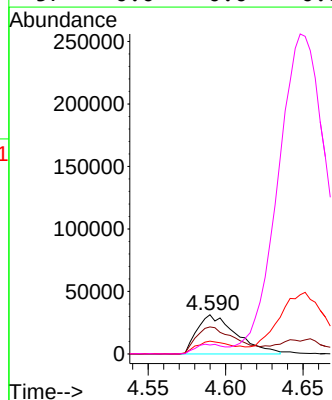
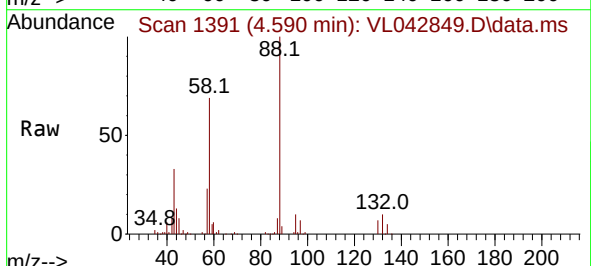
RT: 4.590 min Scan# 1391

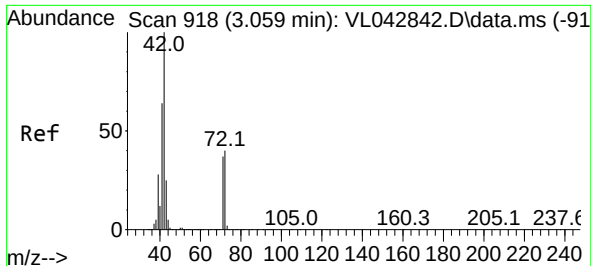
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

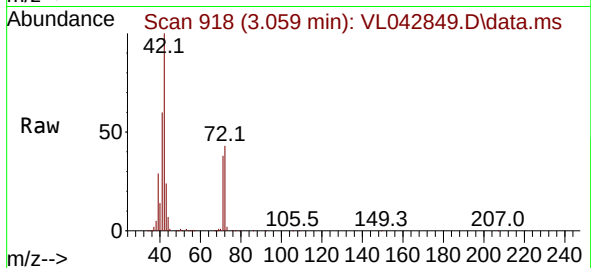
Tgt Ion:	88	Resp:	55292
Ion	Ratio	Lower	Upper
88	100		
58	72.7	53.8	80.6
43	32.4	22.8	34.2
57	0.0	0.0	0.0





#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

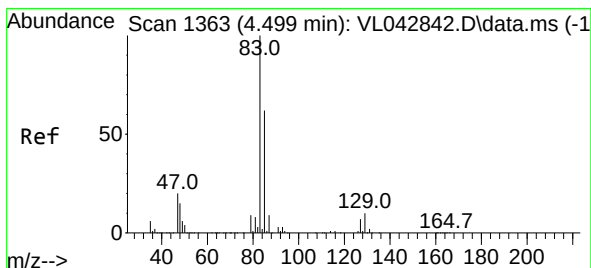
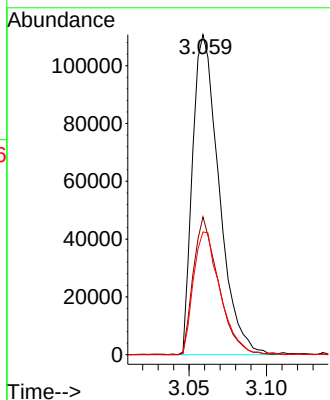
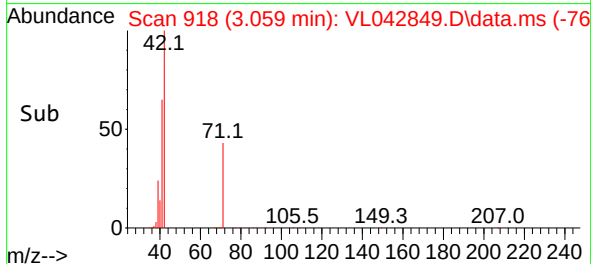
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



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

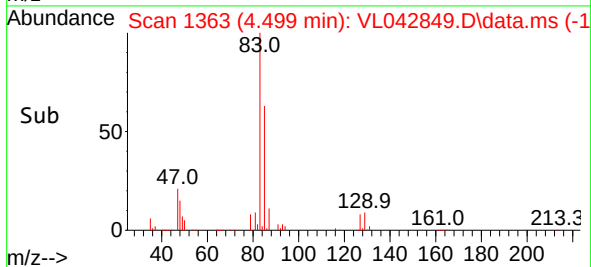
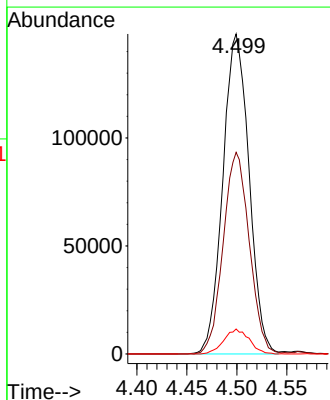
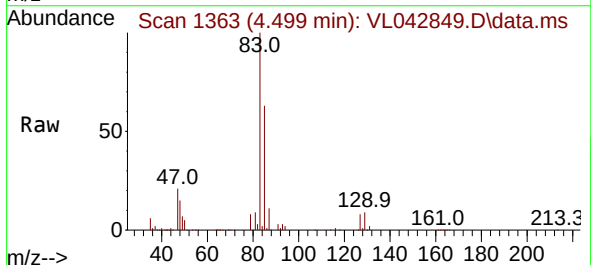
Manual Integrations
APPROVED

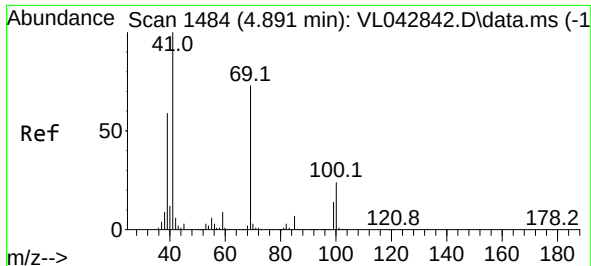
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

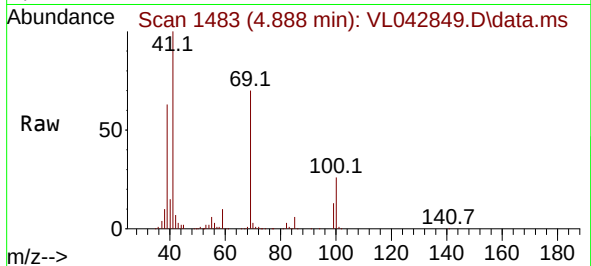
Tgt Ion: 83 Resp: 270154
Ion Ratio Lower Upper
83 100
85 63.0 49.8 74.8
127 7.8 5.8 8.6





#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

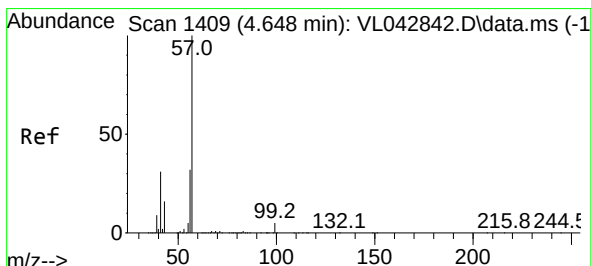
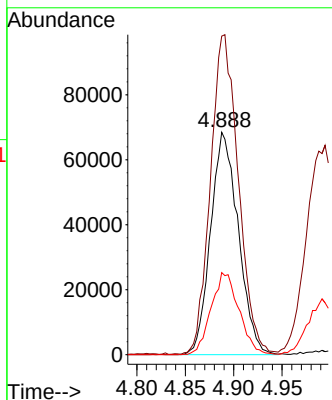
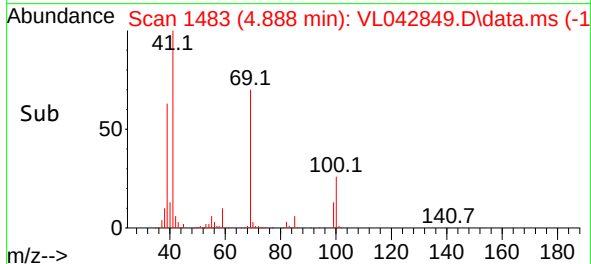
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



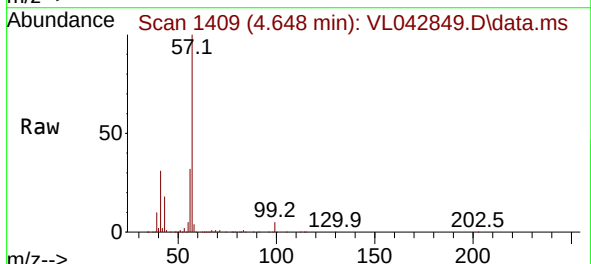
Tgt Ion: 69 Resp: 136329
Ion Ratio Lower Upper
69 100
41 144.9 114.6 172.0
100 37.0 30.2 45.4

Manual Integrations
APPROVED

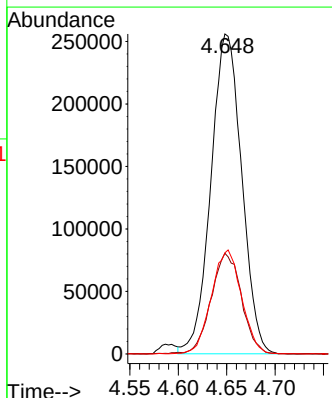
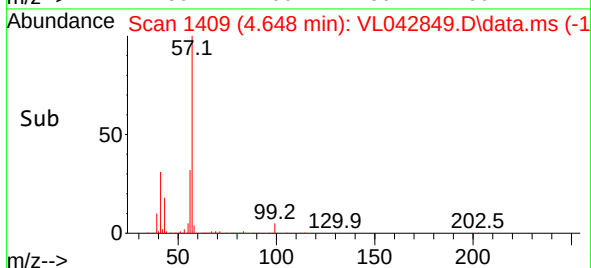
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

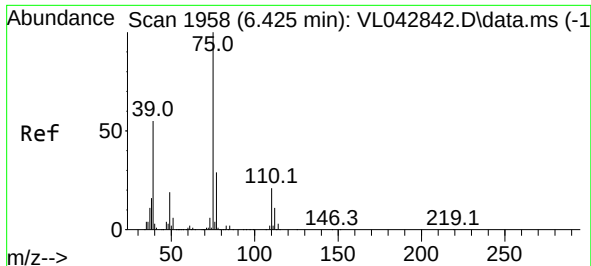


#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



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





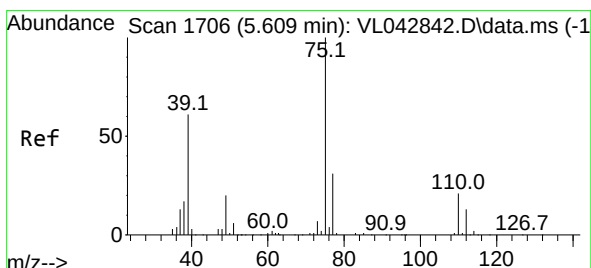
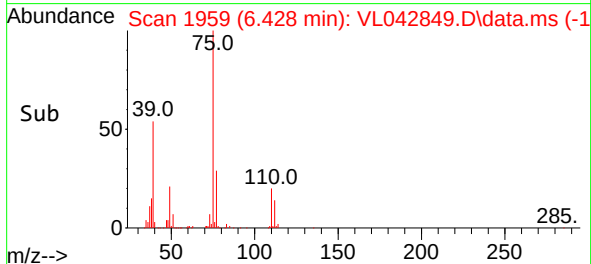
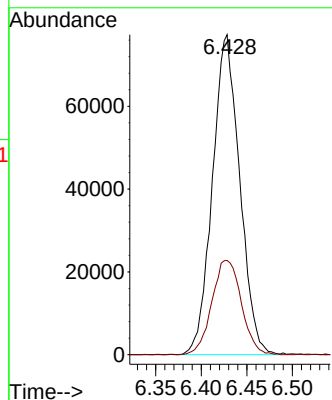
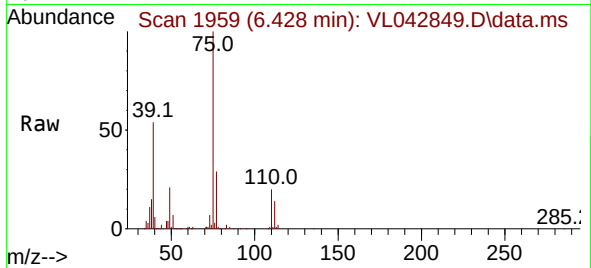
#45
t-1,3-Dichloropropene
Concen: 9.645 ppbv
RT: 6.428 min Scan# 1958
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 75 Resp: 160784
Ion Ratio Lower Upper
75 100
77 29.5 23.8 35.6

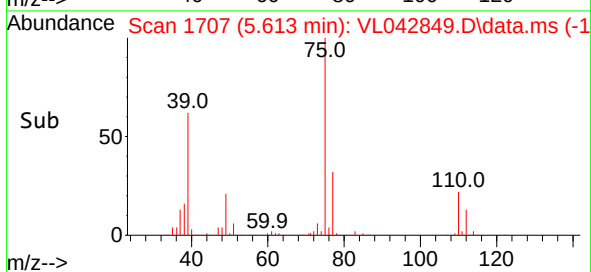
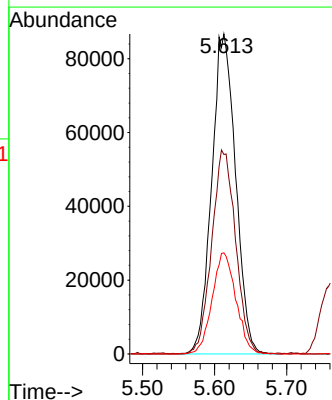
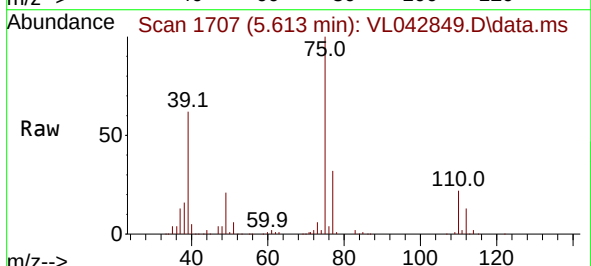
Manual Integrations
APPROVED

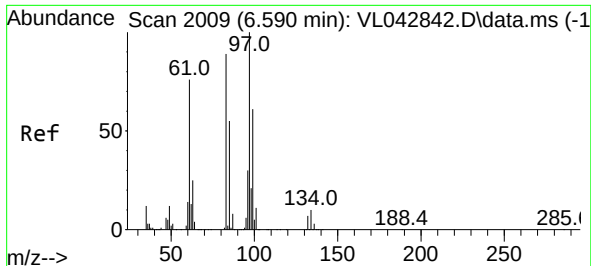
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

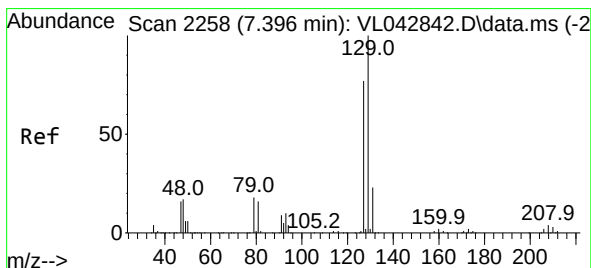
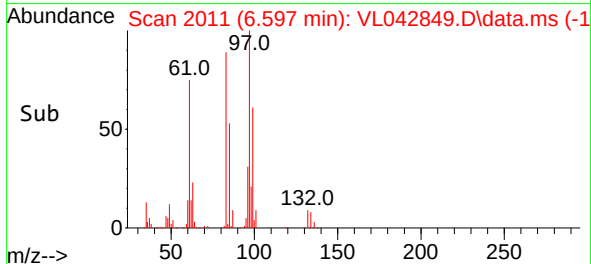
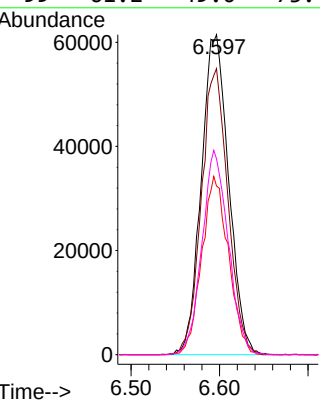
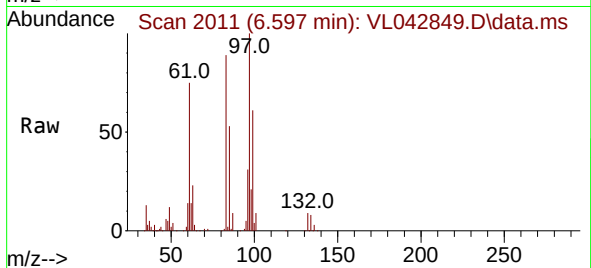
99 61.2 49.0 73.4

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

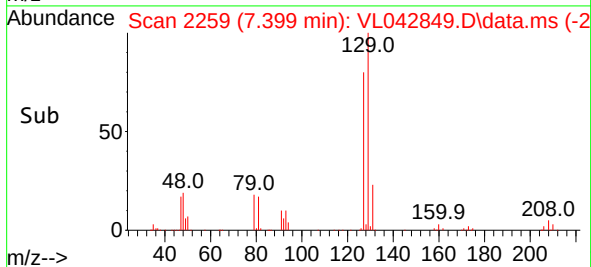
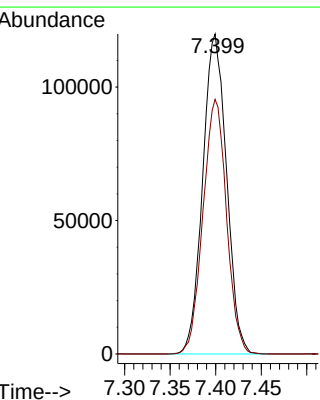
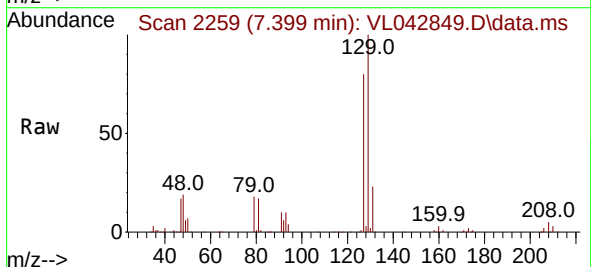
Acq: 13 Aug 2025 12:56

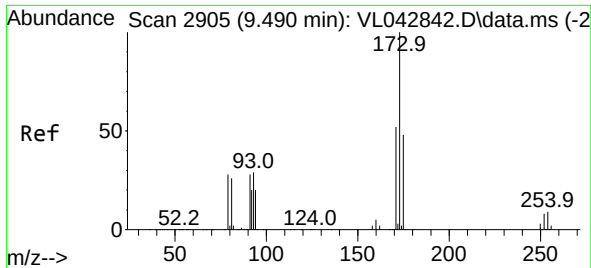
Tgt Ion:129 Resp: 217970

Ion Ratio Lower Upper

129 100

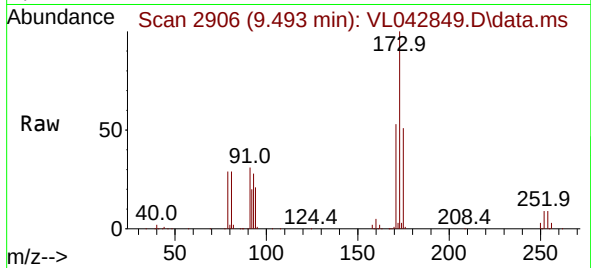
127 78.5 39.4 118.2





#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

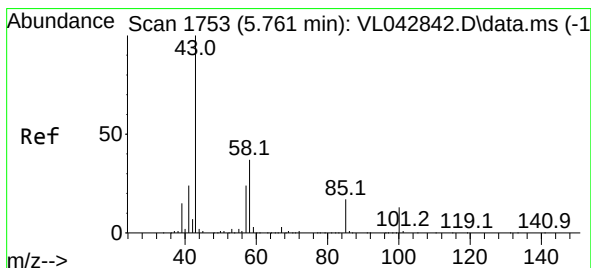
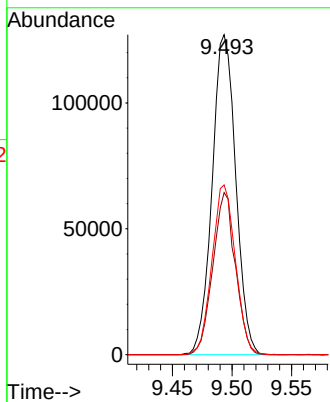
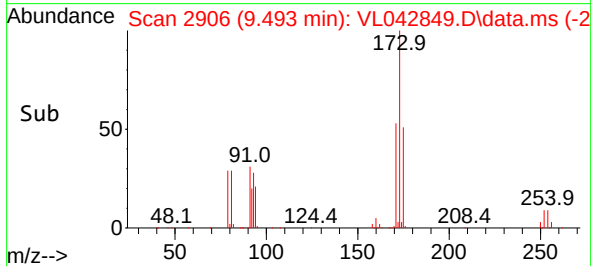
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



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

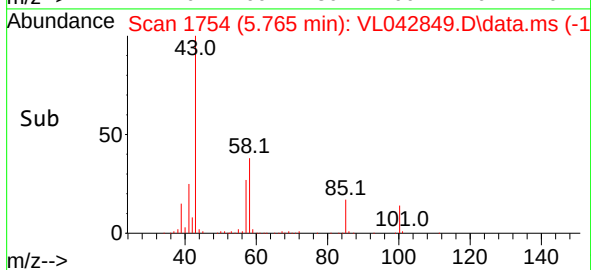
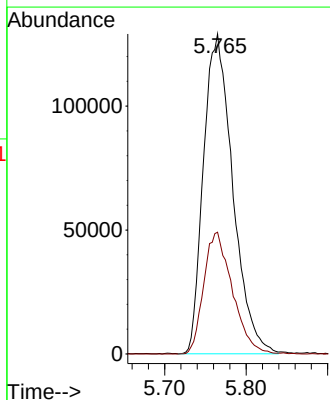
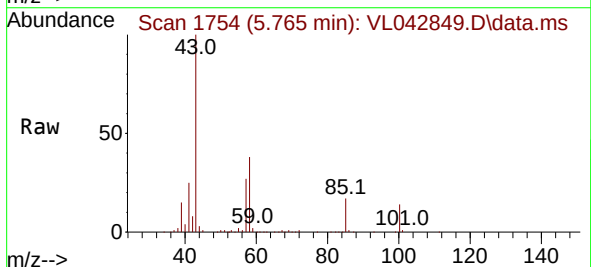
Manual Integrations
APPROVED

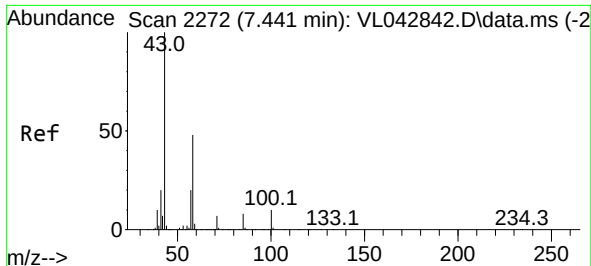
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

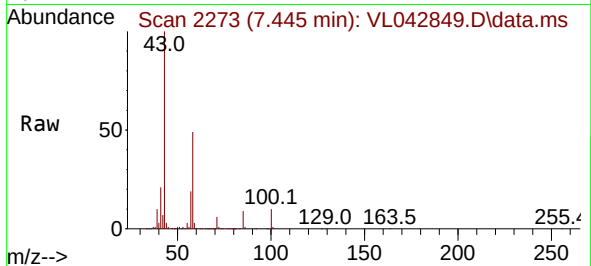
Tgt Ion: 43 Resp: 322264
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8





#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

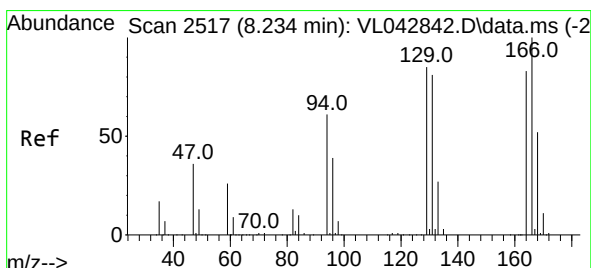
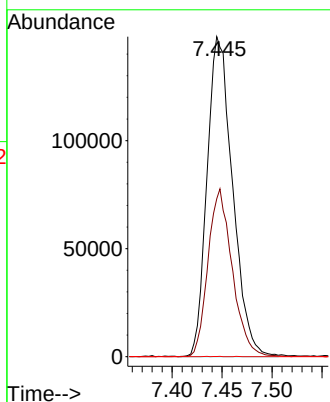
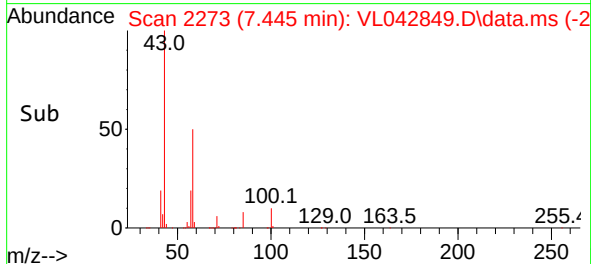
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



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

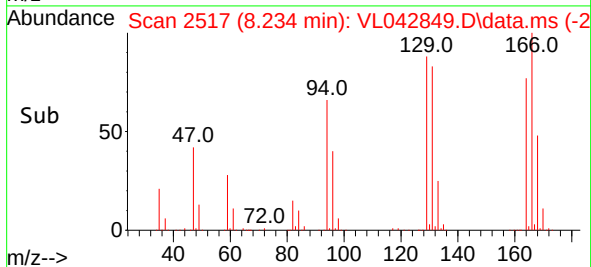
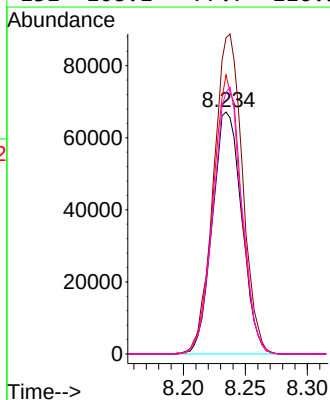
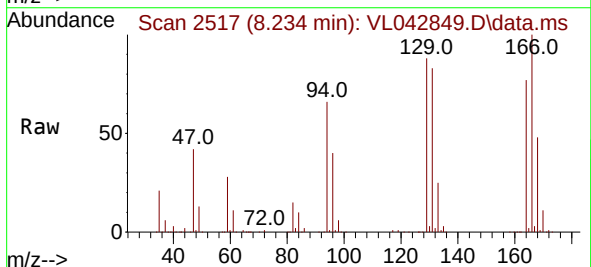
Manual Integrations
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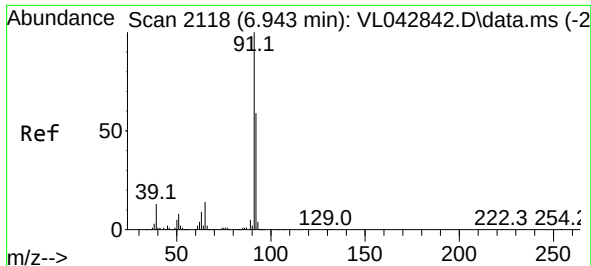
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

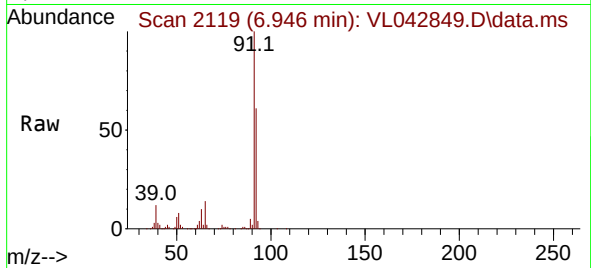
Tgt Ion:164 Resp: 110828
Ion Ratio Lower Upper
164 100
166 130.6 96.5 144.7
129 115.3 81.8 122.6
131 108.1 77.7 116.5





#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

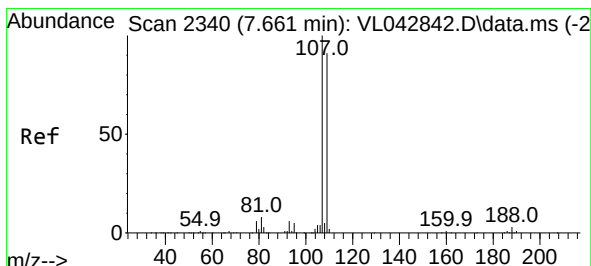
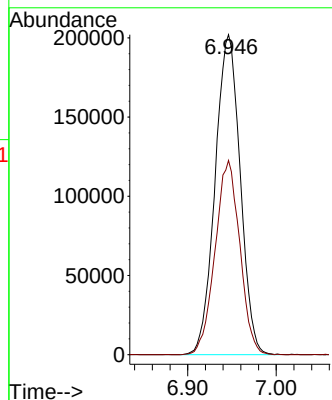
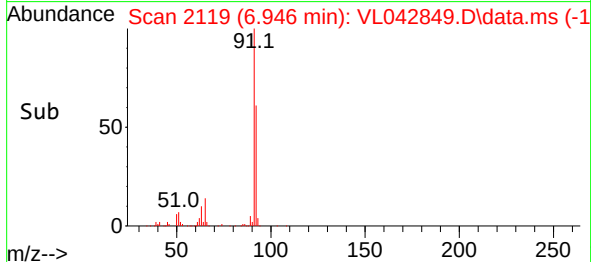
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



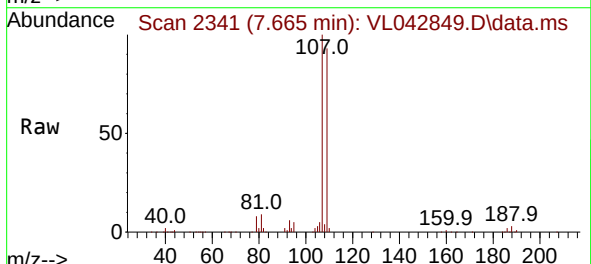
Tgt Ion: 91 Resp: 398138
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

Manual Integrations
APPROVED

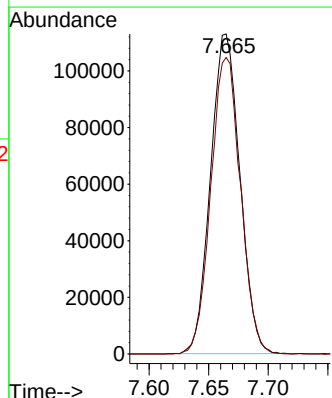
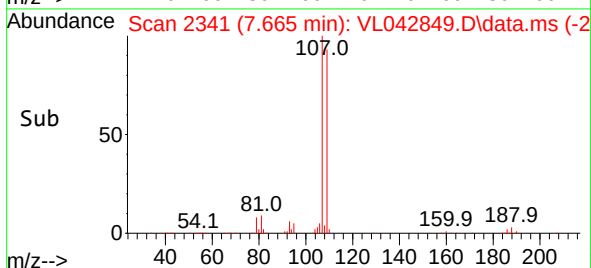
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

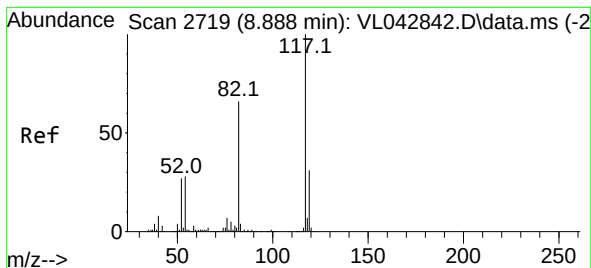


#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



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

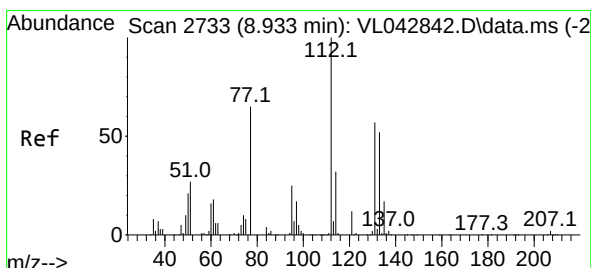
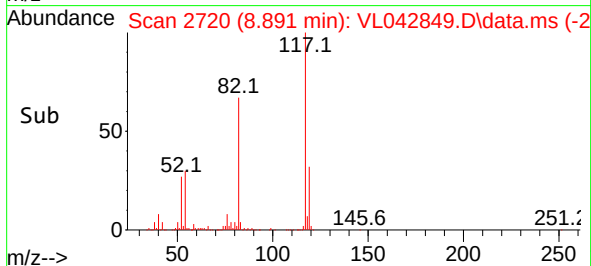
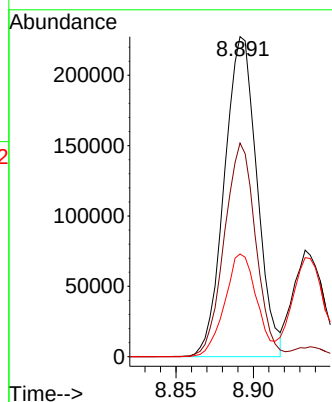
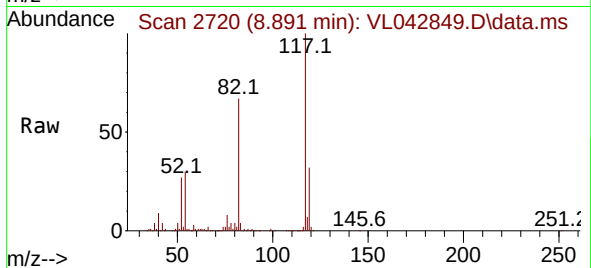
Tgt Ion:117 Resp: 33349

Ion	Ratio	Lower	Upper
117	100		
82	67.3	54.6	81.8
119	31.8	25.9	38.9

Manual Integrations

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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: 9.291 ppbv

RT: 8.937 min Scan# 2734

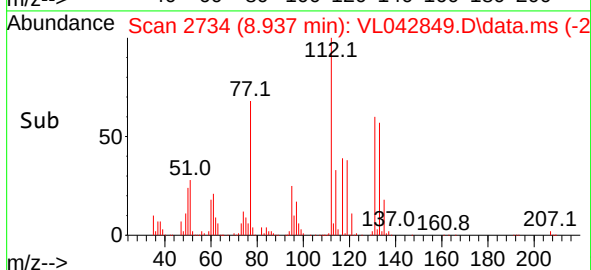
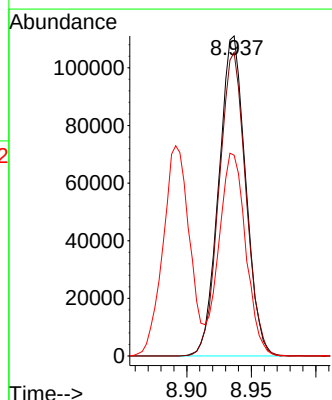
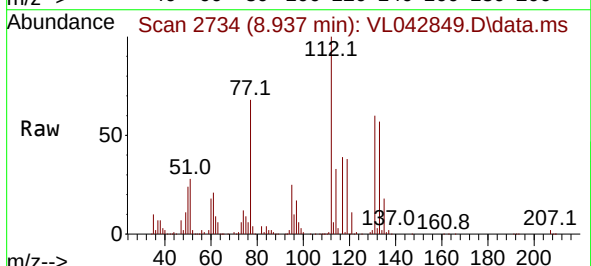
Delta R.T. 0.003 min

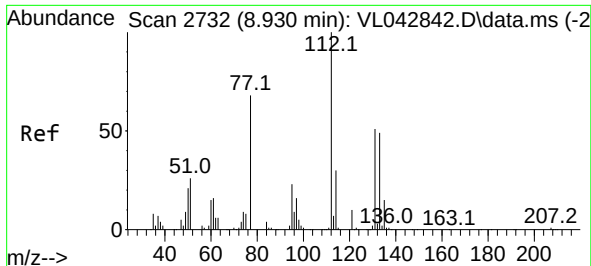
Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:131 Resp: 160225

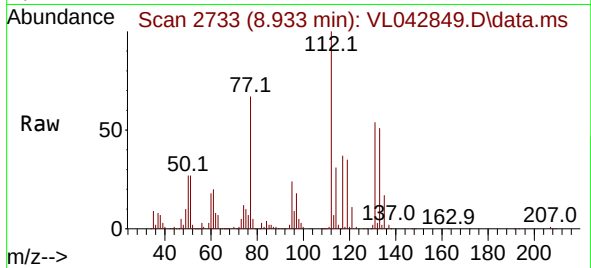
Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.4	116.0
119	64.3	51.2	76.8





#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

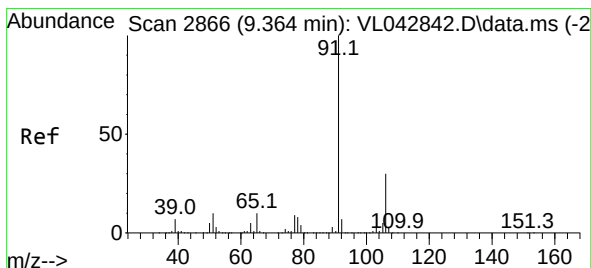
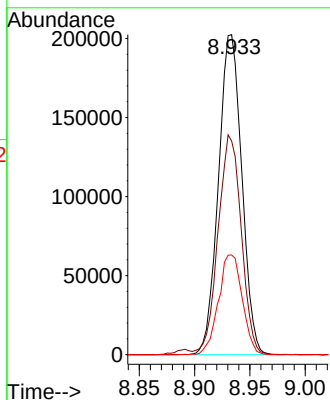
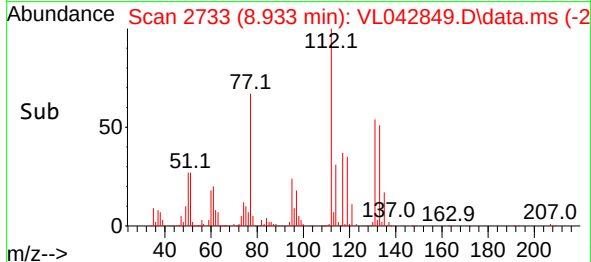
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



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

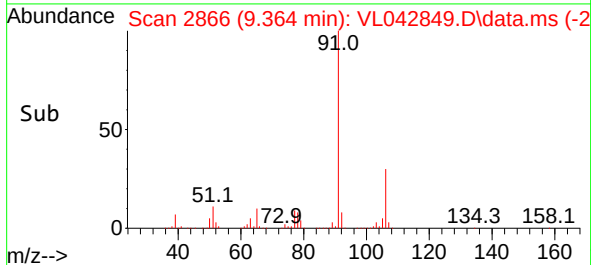
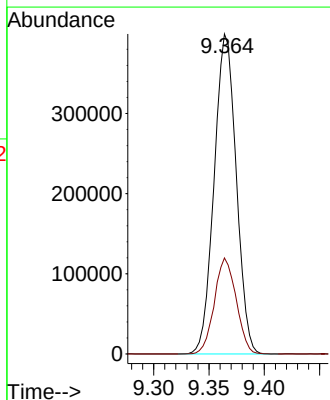
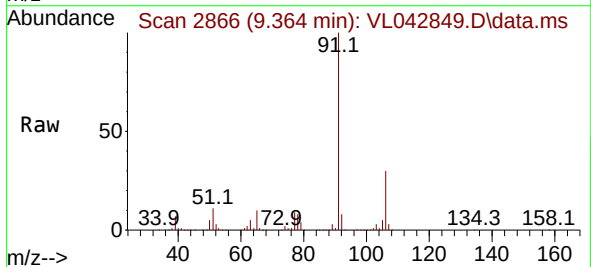
Manual Integrations
APPROVED

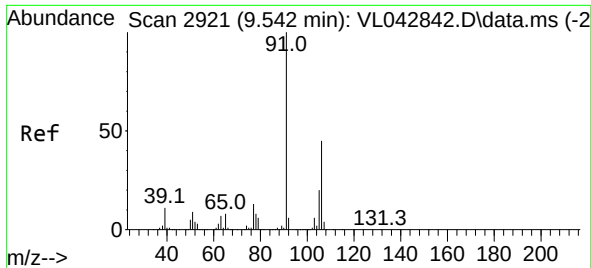
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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





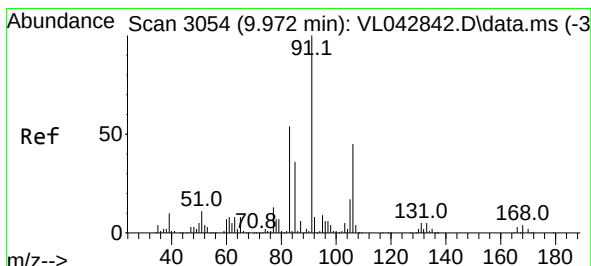
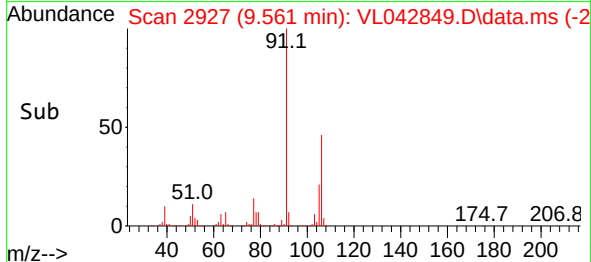
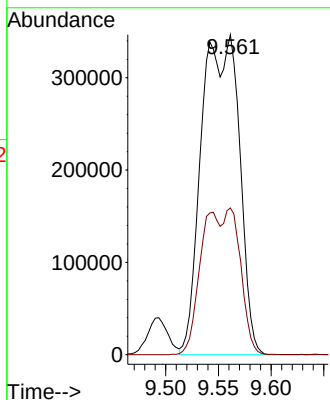
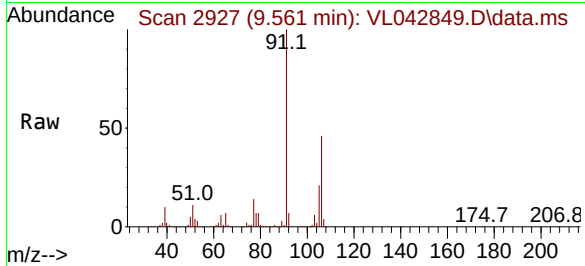
#59
m/p-Xylene
Concen: 18.754 ppbv m
RT: 9.561 min Scan# 2927
Delta R.T. 0.019 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 865100
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

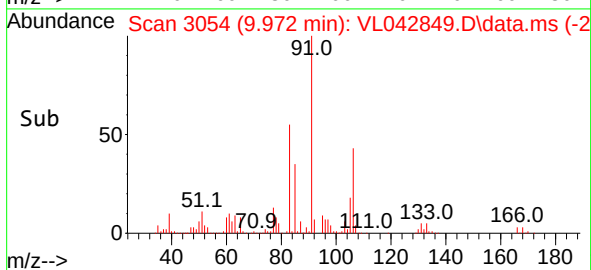
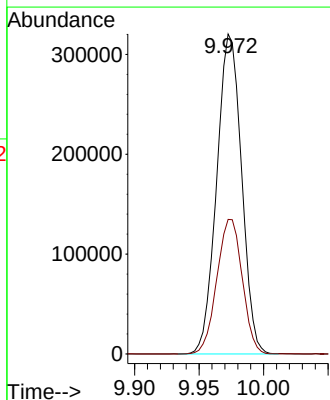
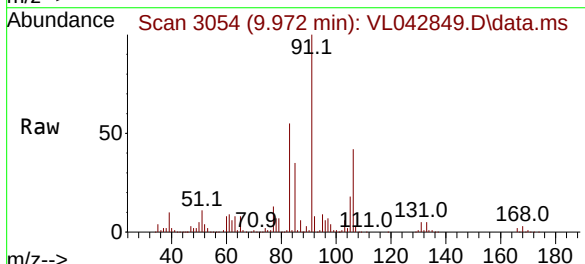
Manual Integrations
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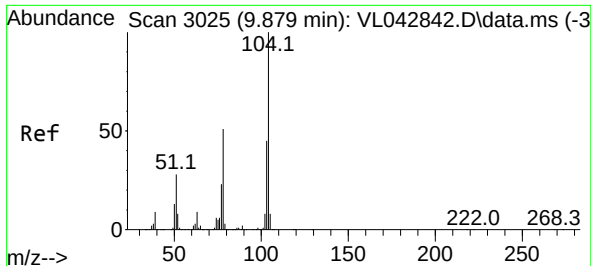
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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

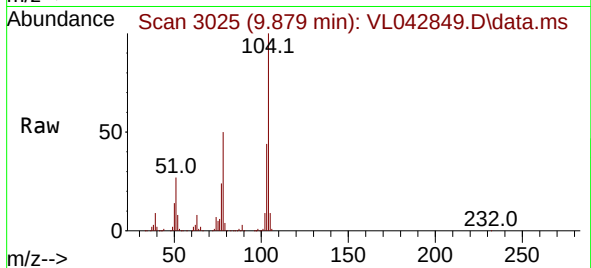
Tgt Ion: 91 Resp: 428721
Ion Ratio Lower Upper
91 100
106 43.0 21.8 65.4





#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

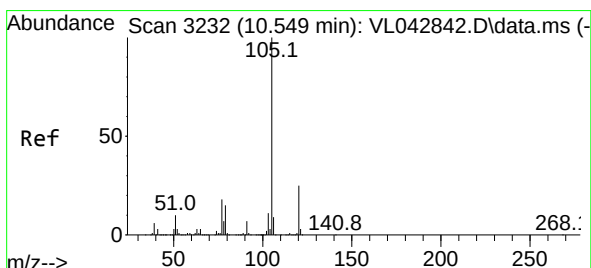
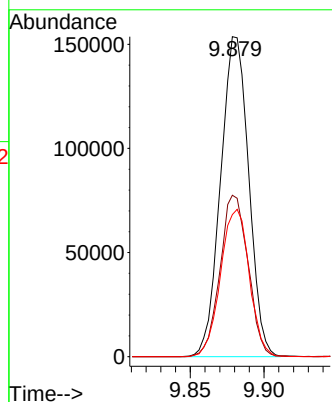
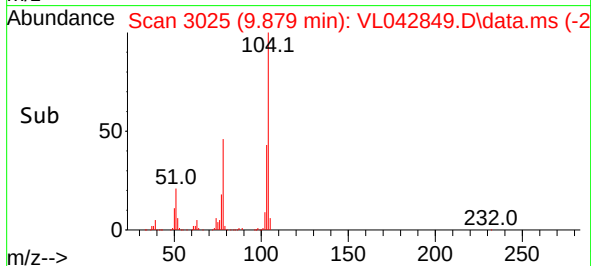
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



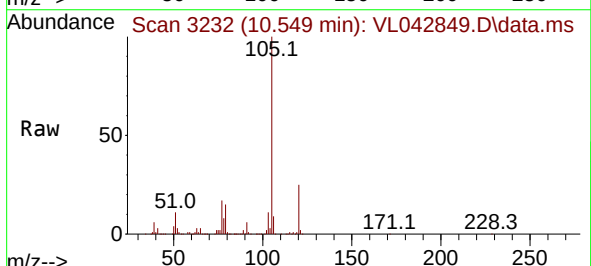
Tgt Ion:104 Resp: 203858
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 47.1 37.7 56.5

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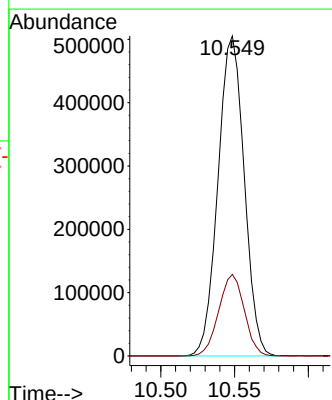
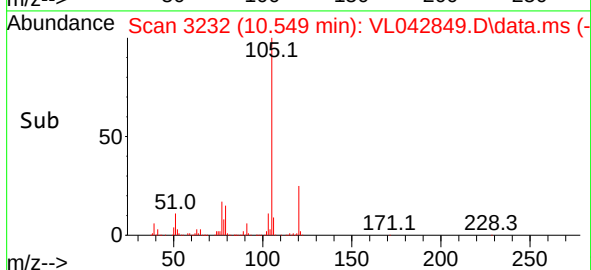
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

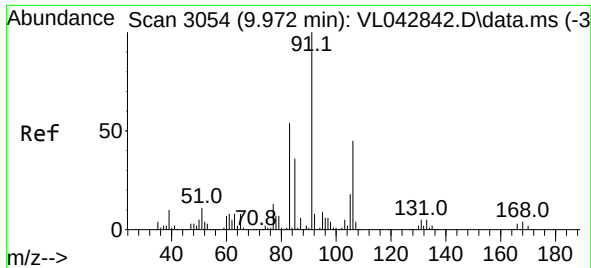


#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



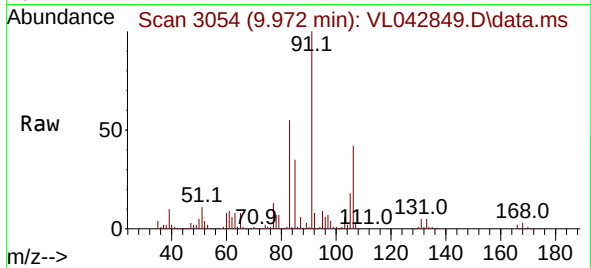
Tgt Ion:105 Resp: 624287
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8





#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

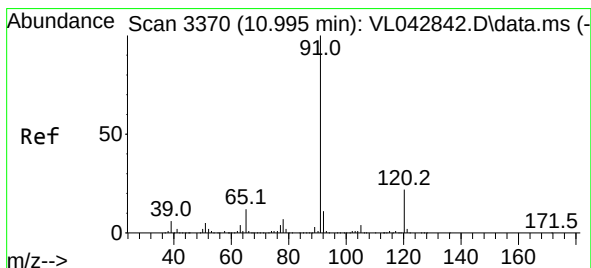
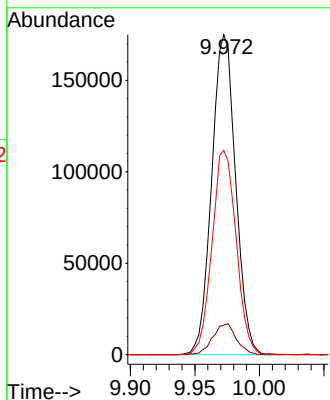
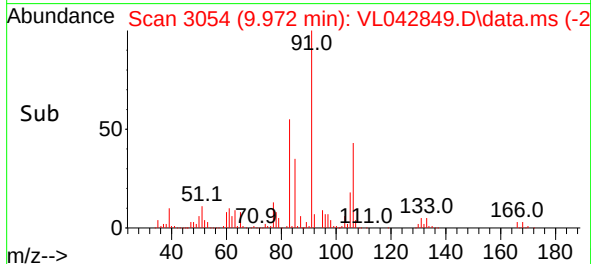
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



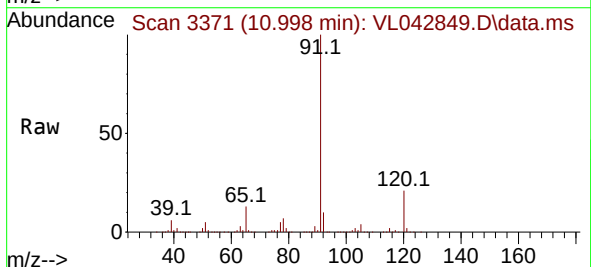
Tgt Ion: 83 Resp: 22523
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.4 32.3 96.8

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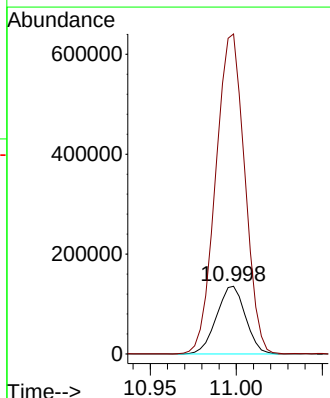
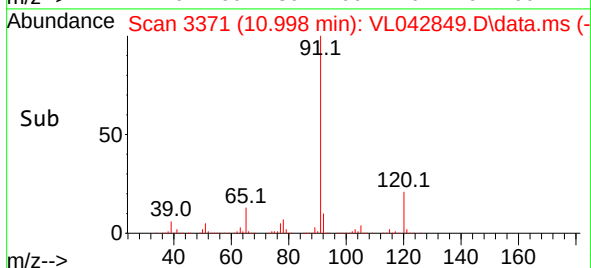
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

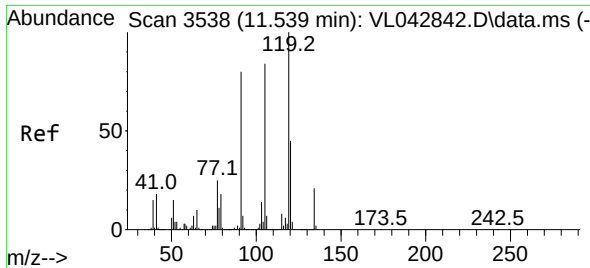


#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion:120 Resp: 158234
Ion Ratio Lower Upper
120 100
91 476.9 375.8 563.6





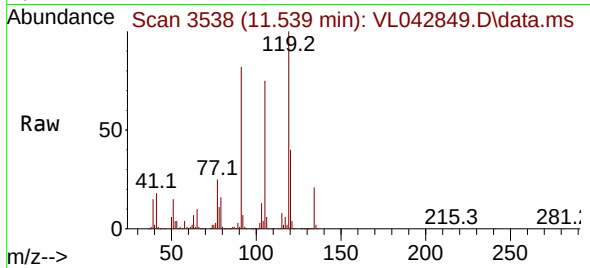
#65
tert-Butylbenzene
Concen: 8.946 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

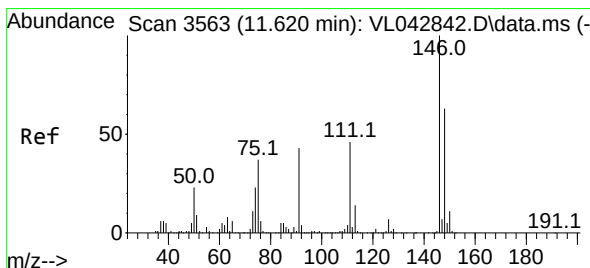
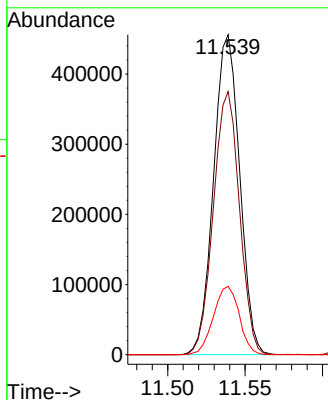
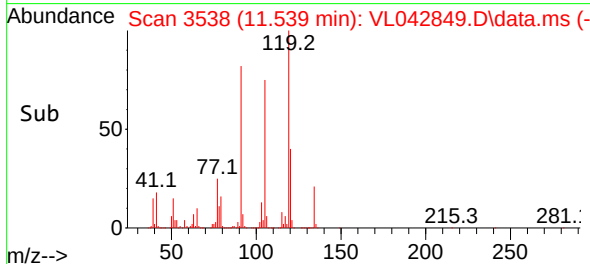


Tgt Ion: 119 Resp: 53479
Ion Ratio Lower Upper
119 100
91 82.2 63.9 95.9
134 21.1 17.0 25.4

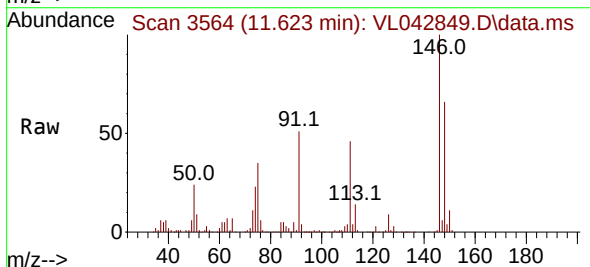
Manual Integrations

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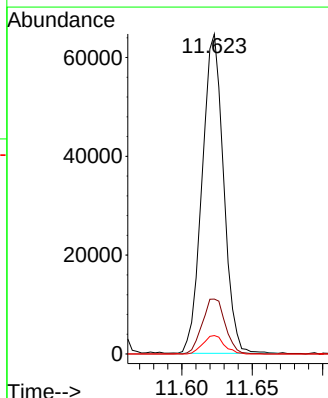
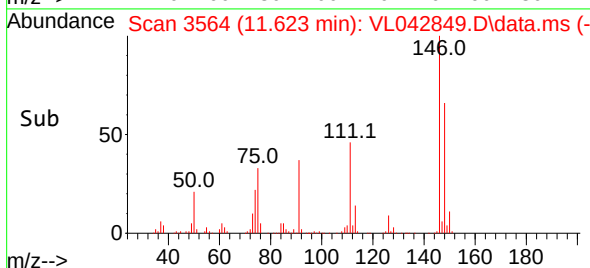
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

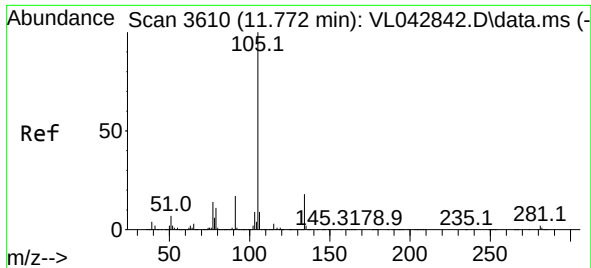


#66
Benzyl Chloride
Concen: 9.031 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



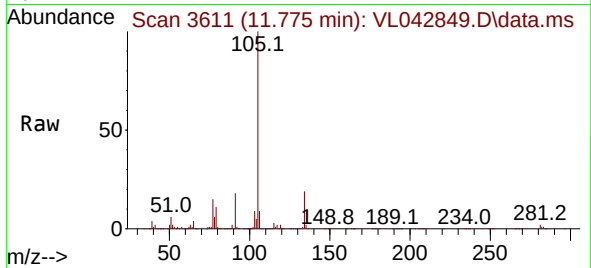
Tgt Ion: 91 Resp: 68533
Ion Ratio Lower Upper
91 100
126 18.4 14.2 21.4
128 5.7 5.0 7.6





#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

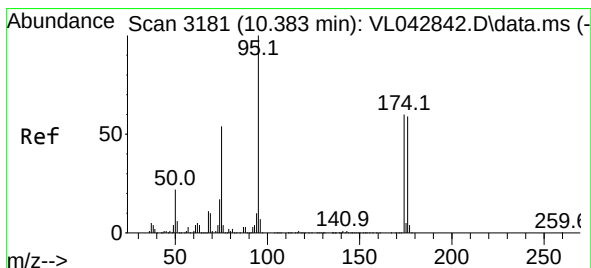
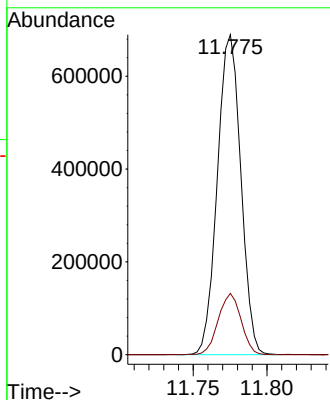
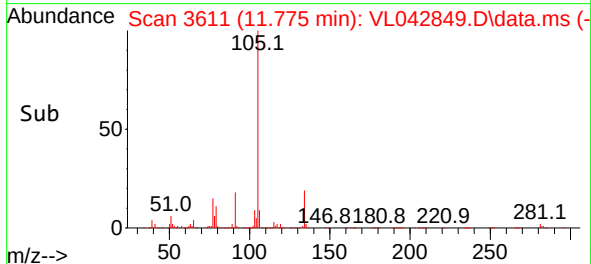
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



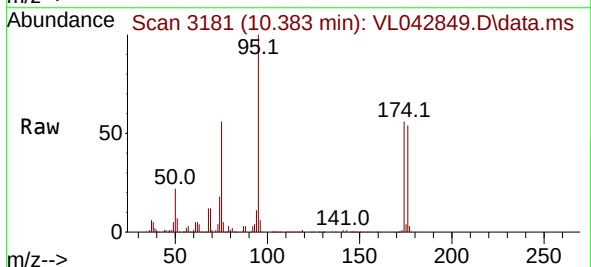
Tgt Ion:105 Resp: 762602
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

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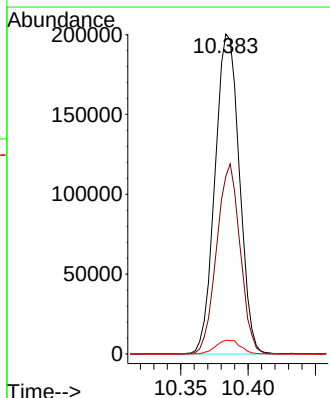
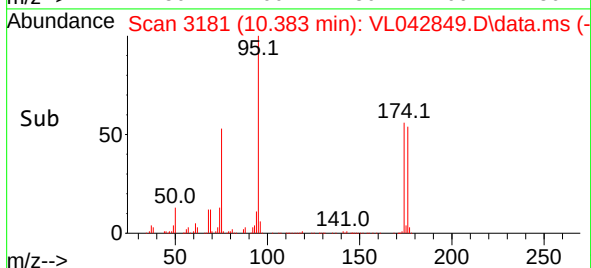
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

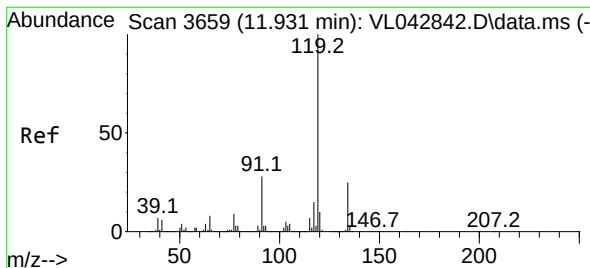


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.086 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



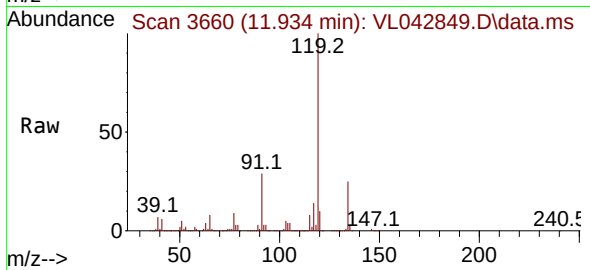
Tgt Ion: 95 Resp: 252268
 Ion Ratio Lower Upper
 95 100
 174 57.2 48.4 72.6
 175 4.4 3.8 5.8





#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

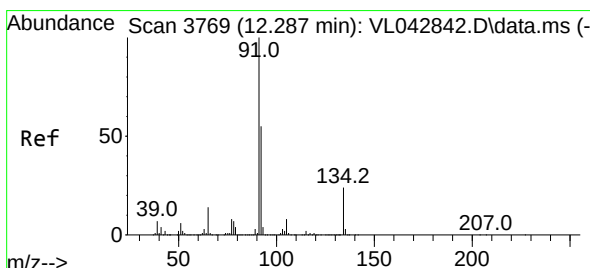
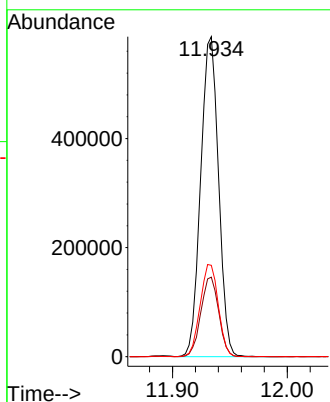
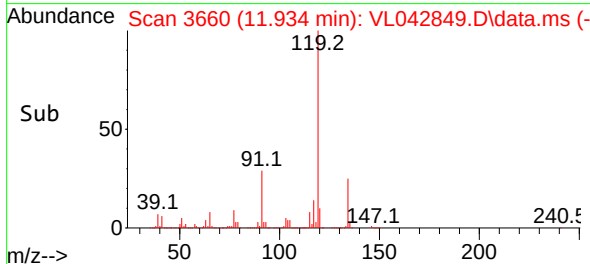
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



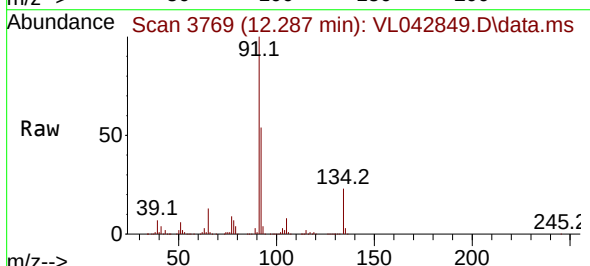
Tgt Ion: 119 Resp: 634670
Ion Ratio Lower Upper
119 100
134 24.9 20.6 30.8
91 29.4 22.6 34.0

Manual Integrations
APPROVED

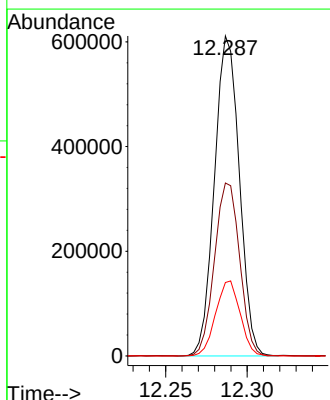
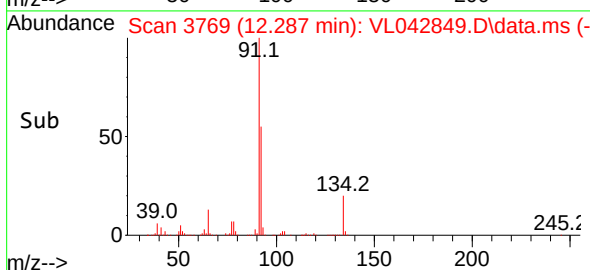
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

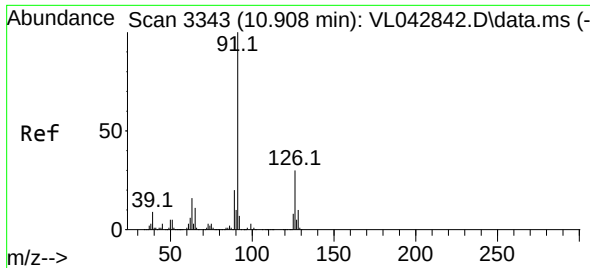


#70
n-Butylbenzene
Concen: 9.062 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



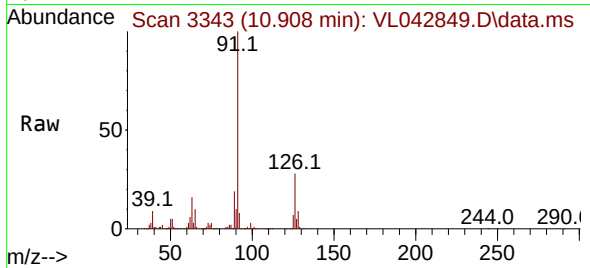
Tgt Ion: 91 Resp: 647453
Ion Ratio Lower Upper
91 100
92 54.8 44.6 66.8
134 23.1 19.0 28.4





#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

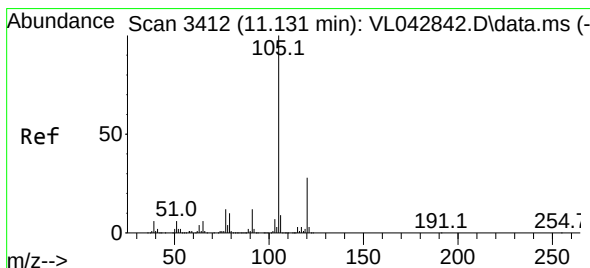
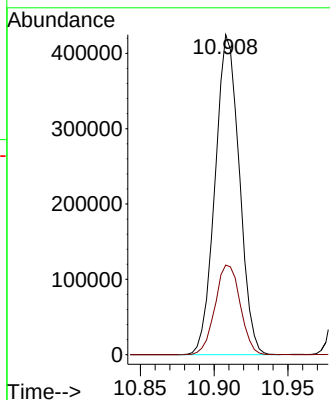
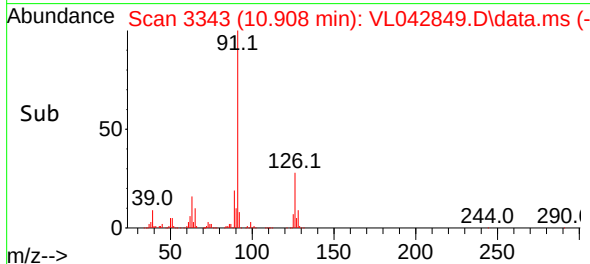
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



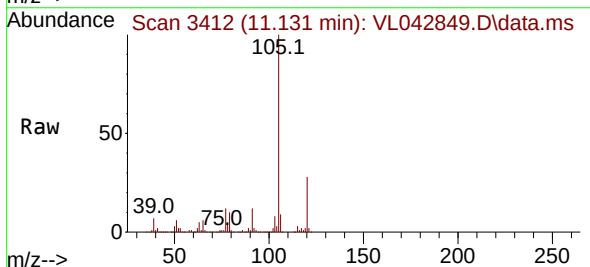
Tgt Ion: 91 Resp: 48517
Ion Ratio Lower Upper
91 100
126 29.1 12.0 47.8

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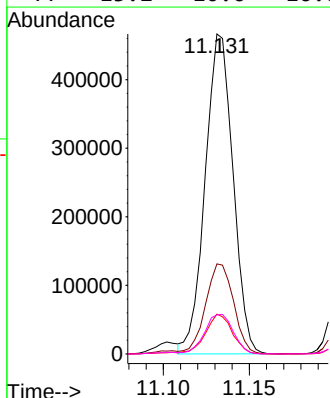
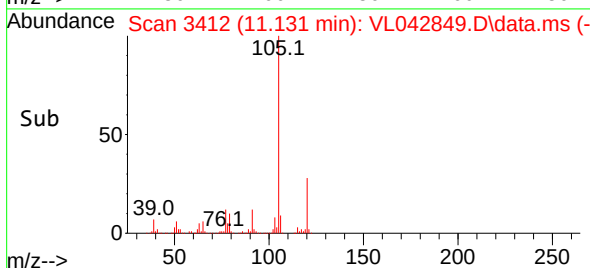
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

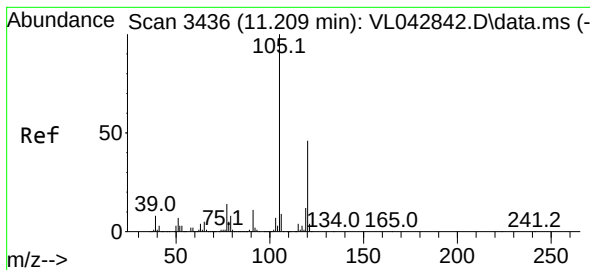


#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



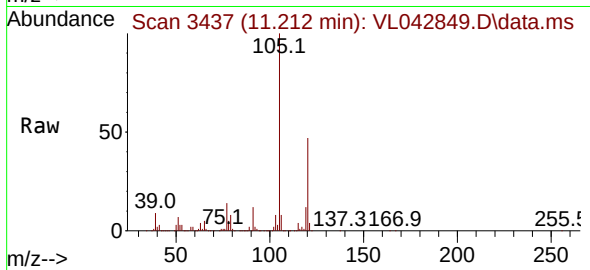
Tgt Ion:105 Resp: 525262
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.2
91 12.5 9.8 14.6
77 13.2 10.6 16.0





#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

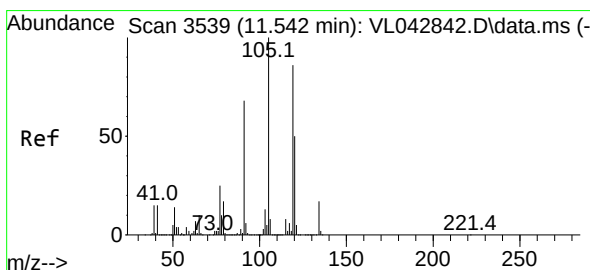
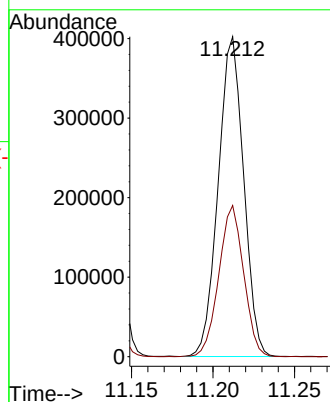
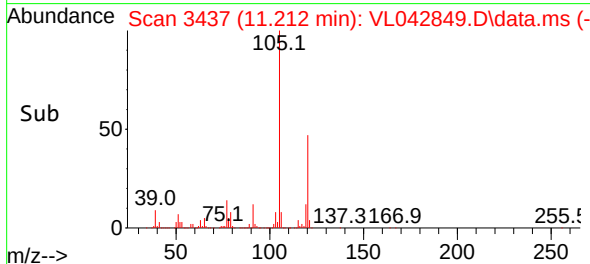
Instrument : MSVOA_L
 ClientSampleId : ICVVL081325



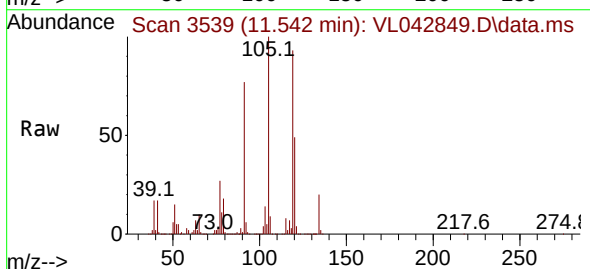
Tgt Ion:105 Resp: 435708
 Ion Ratio Lower Upper
 105 100
 120 47.2 36.6 54.8

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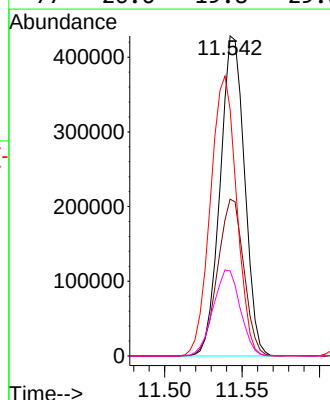
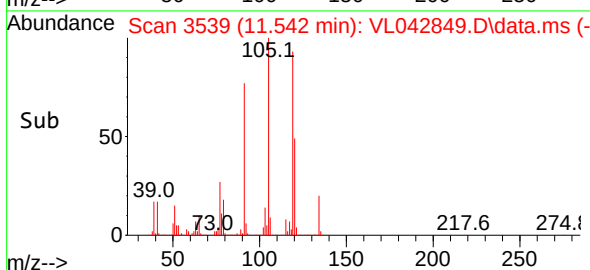
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

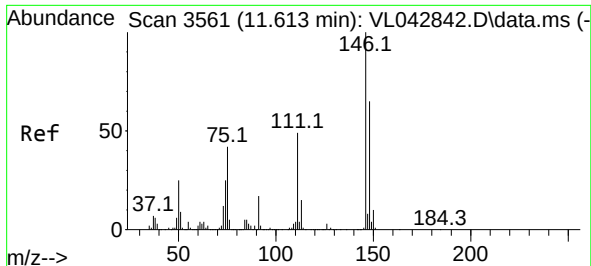


#74
 1,2,4-Trimethylbenzene
 Concen: 8.943 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



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





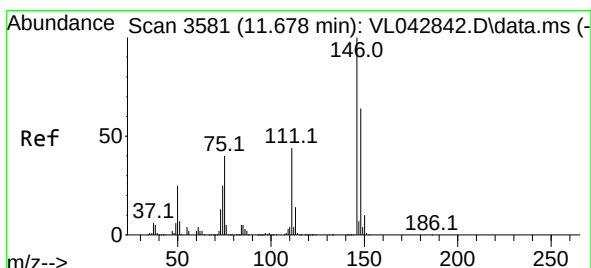
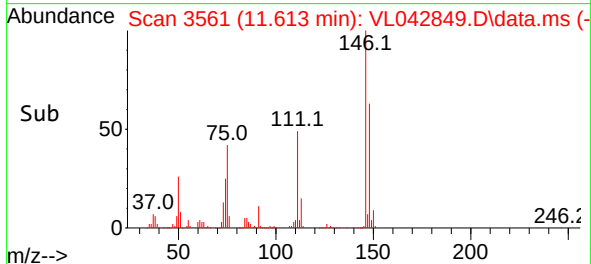
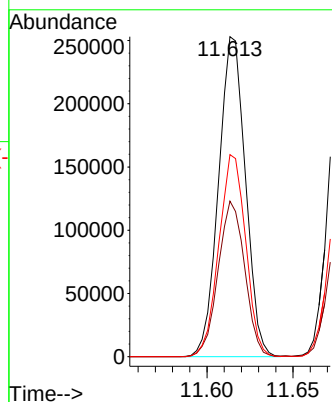
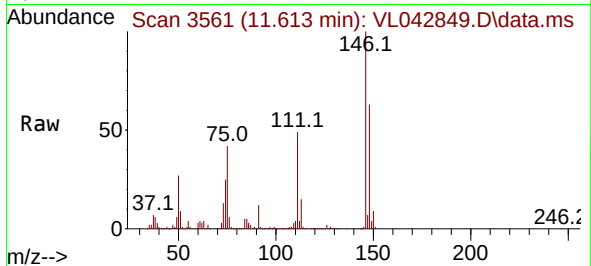
#75
1,3-Dichlorobenzene
Concen: 9.209 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

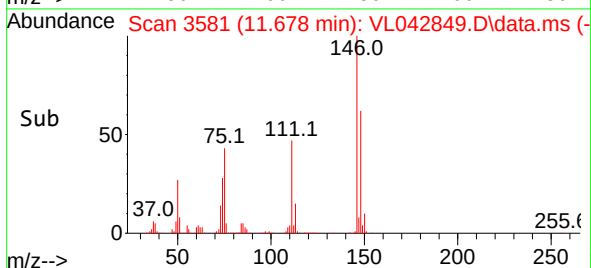
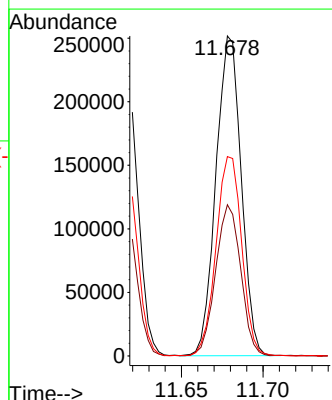
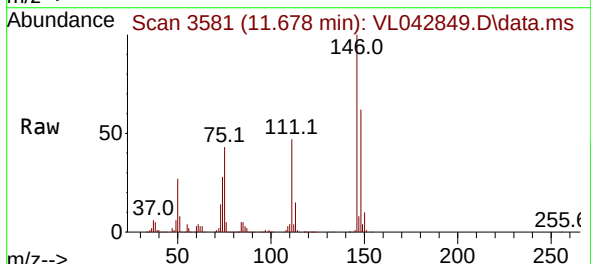
Manual Integrations
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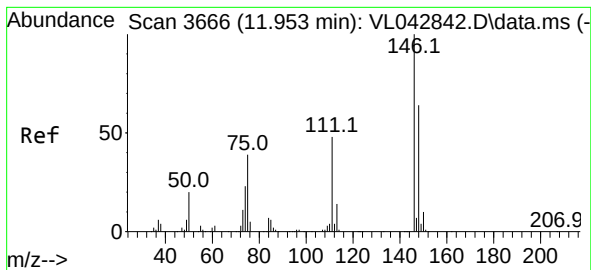
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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 :

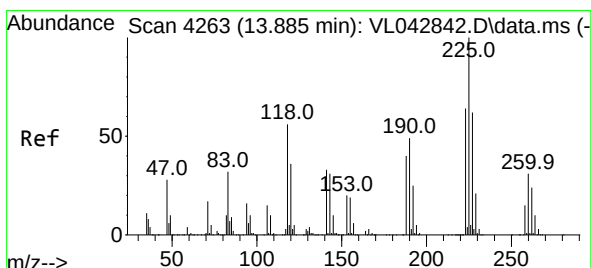
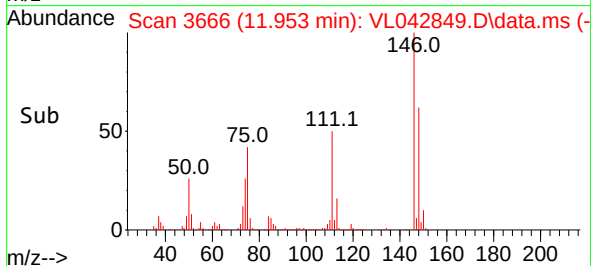
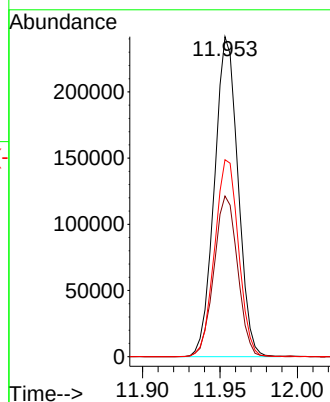
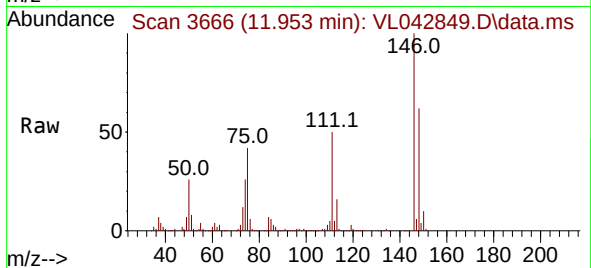
ICVVL081325

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

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



#78

Hexachloro-1,3-Butadiene

Concen: 7.778 ppbv

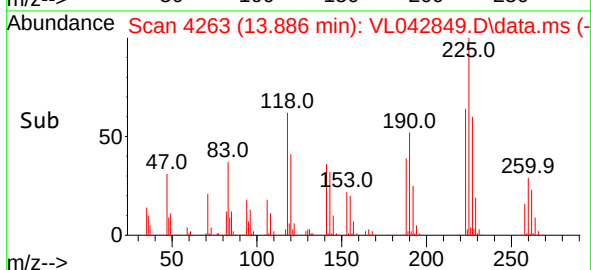
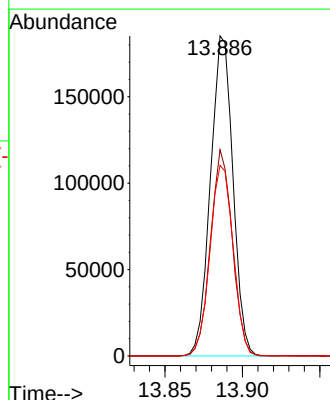
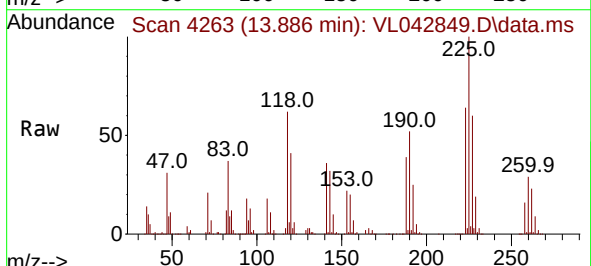
RT: 13.886 min Scan# 4263

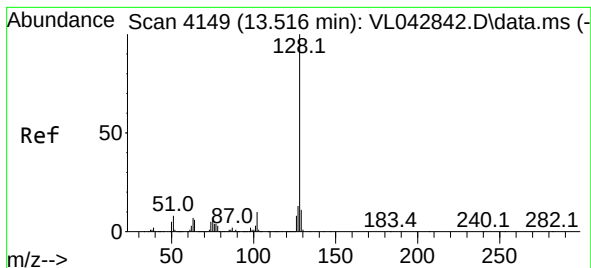
Delta R.T. 0.000 min

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 :

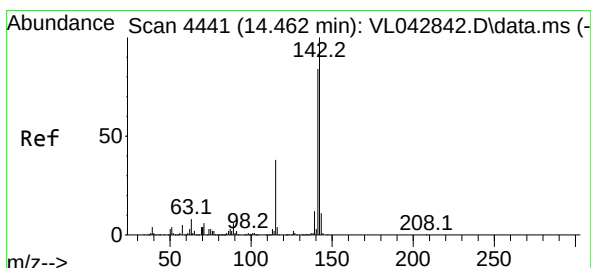
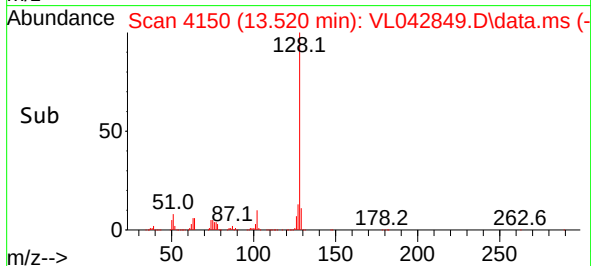
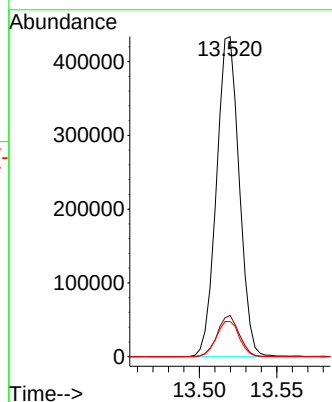
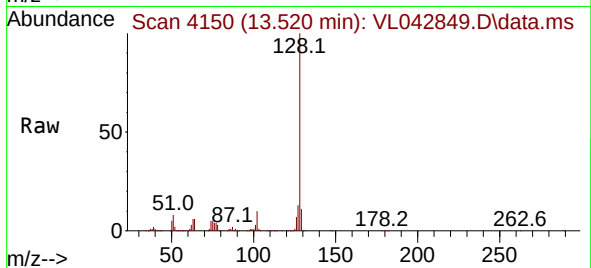
ICVVL081325

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

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



#80

Naphthalene,2-methyl-

Concen: 8.188 ppbv

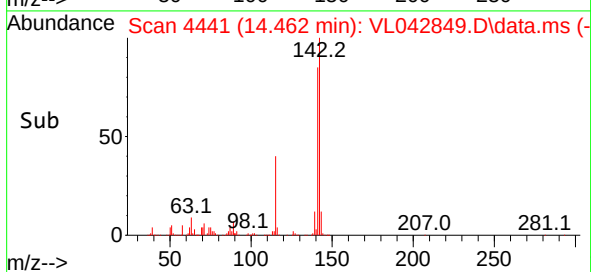
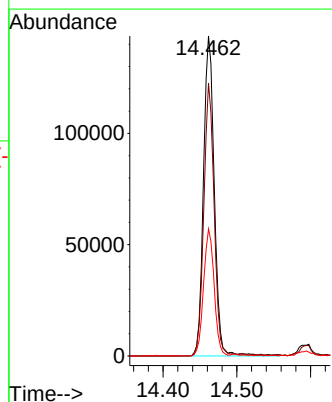
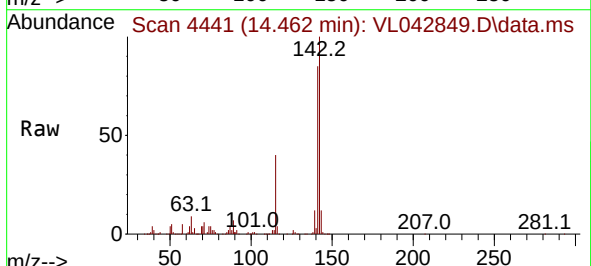
RT: 14.462 min Scan# 4441

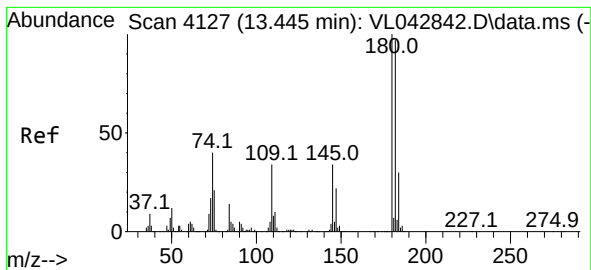
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

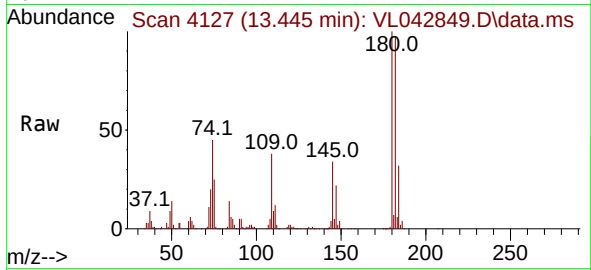
Tgt Ion:142 Resp: 145644
 Ion Ratio Lower Upper
 142 100
 141 81.9 67.0 100.6
 115 40.2 30.9 46.3





#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

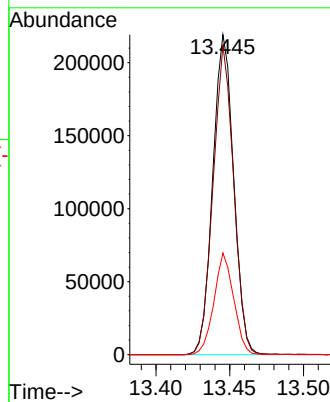
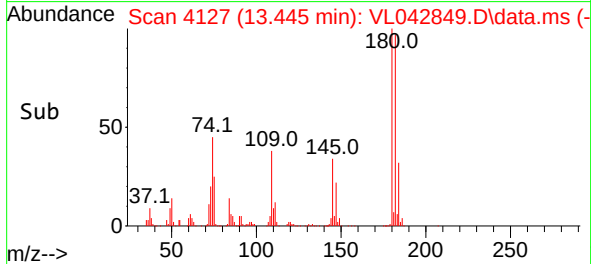
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



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
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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 : 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>Q3037</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 : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

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

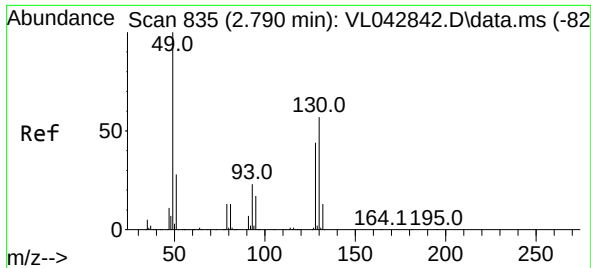
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

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

Response via : Initial Calibration

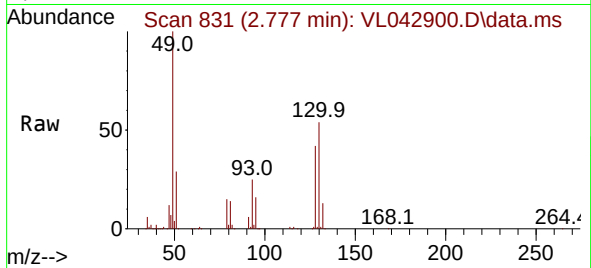
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv	98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv	98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv	100
49) Bromoform	9.471	173	184068	11.158	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	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

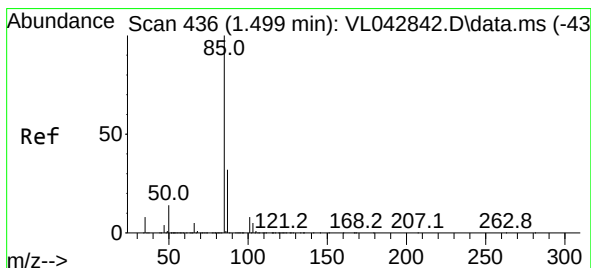
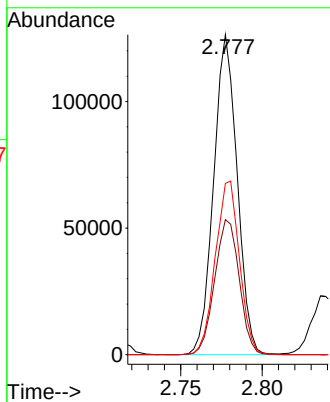
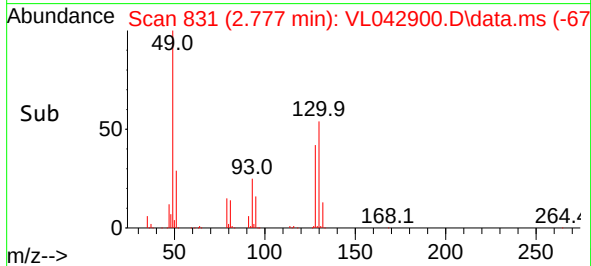
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



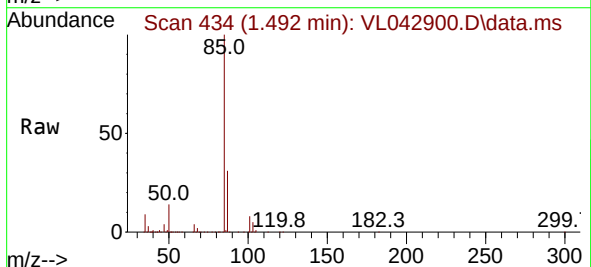
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Ion Ratio Lower Upper
49 100
128 44.1 23.7 71.1
130 55.7 30.6 91.6

Manual Integrations
APPROVED

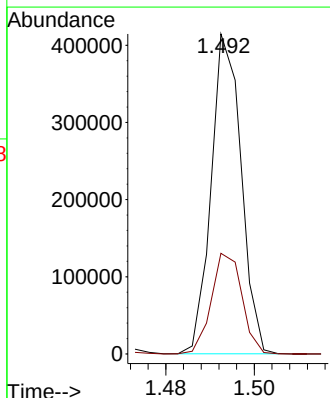
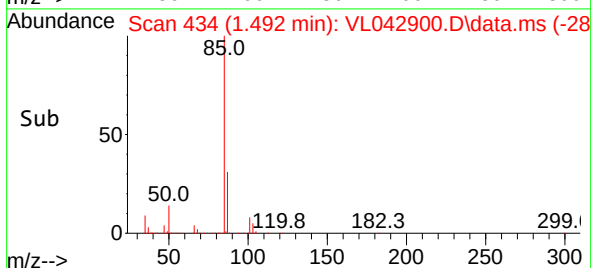
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

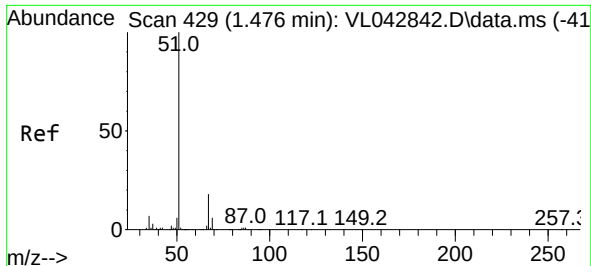


#2
Dichlorodifluoromethane
Concen: 10.511 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



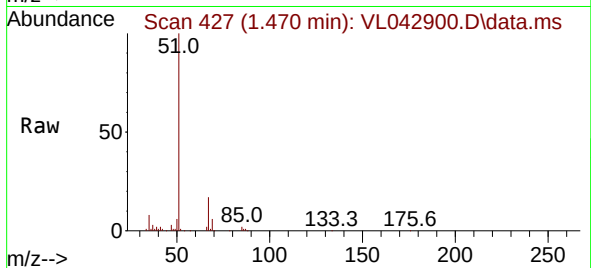
Tgt Ion: 85 Resp: 195136
Ion Ratio Lower Upper
85 100
87 31.4 25.3 37.9





#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

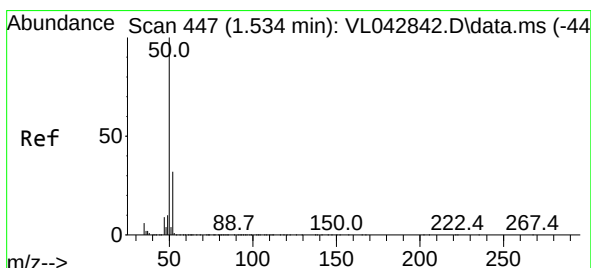
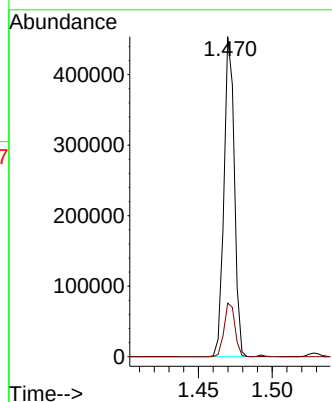
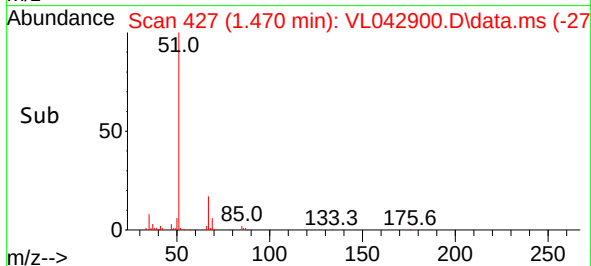
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 51 Resp: 22388
Ion Ratio Lower Upper
51 100
67 17.5 14.9 22.3

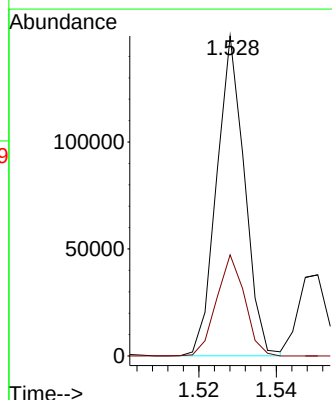
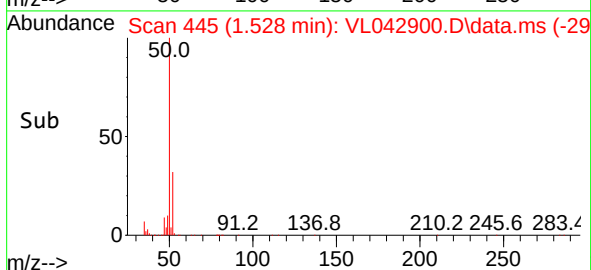
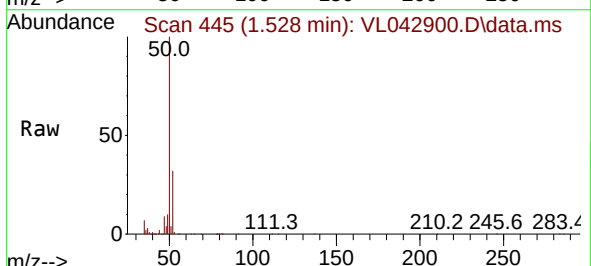
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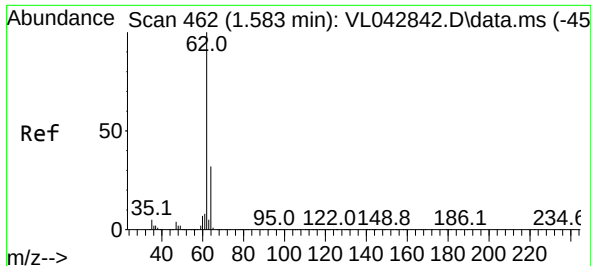
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





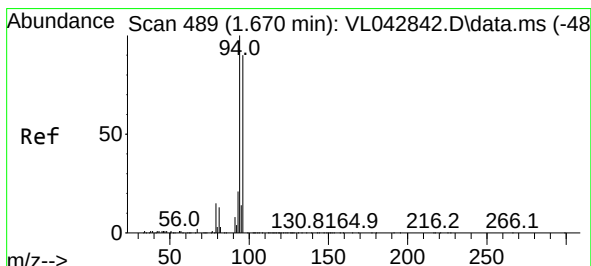
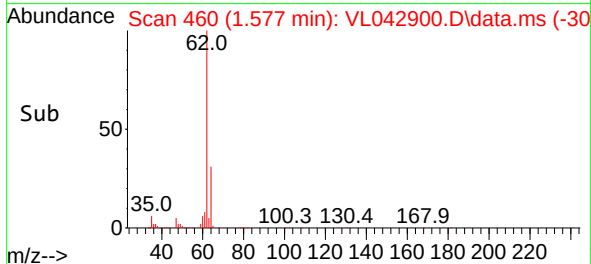
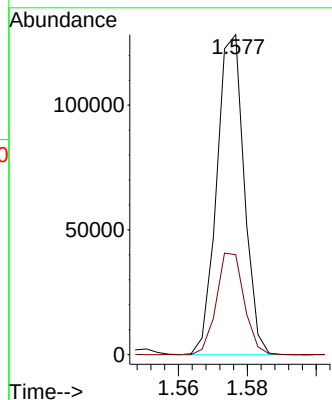
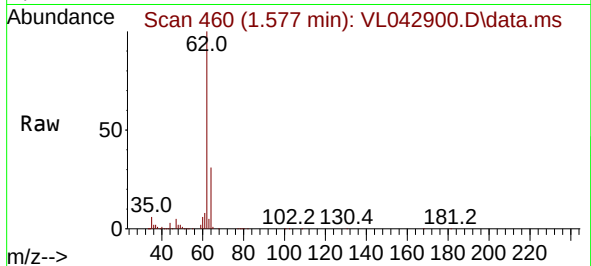
#5
 Vinyl Chloride
 Concen: 9.609 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 70899
 Ion Ratio Lower Upper
 62 100
 64 31.3 25.4 38.2

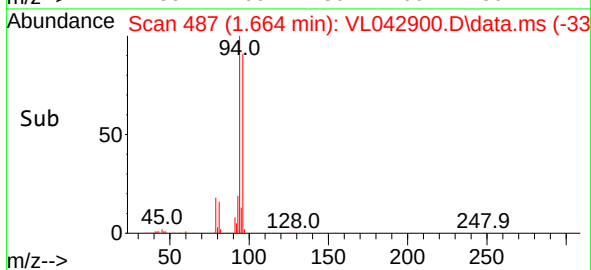
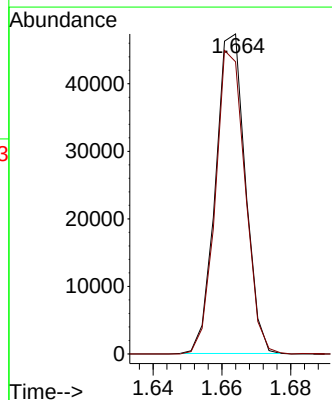
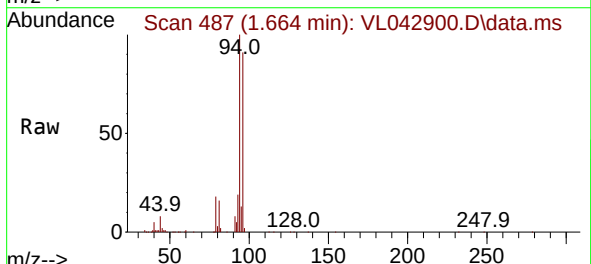
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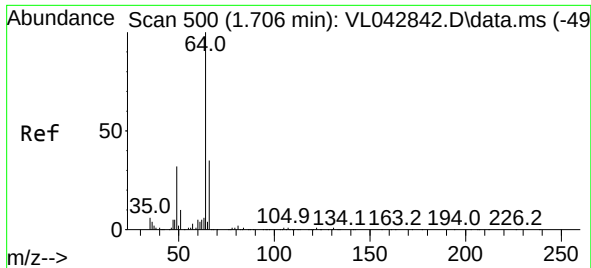
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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





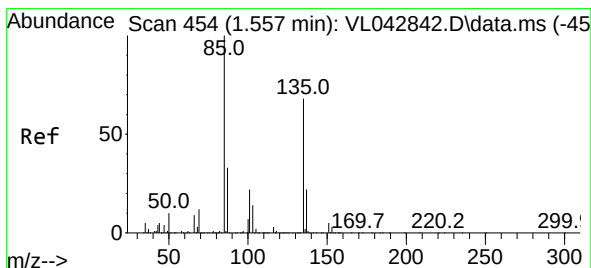
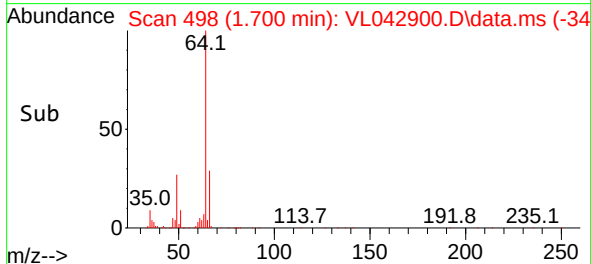
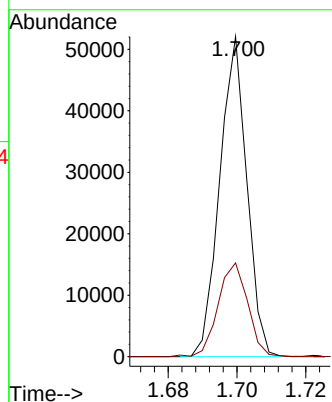
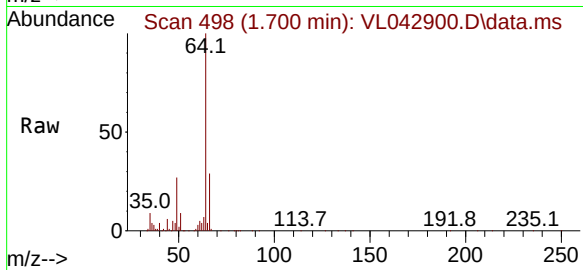
#7
Chloroethane
Concen: 9.889 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 28490
Ion Ratio Lower Upper
64 100
66 29.3 28.6 42.8

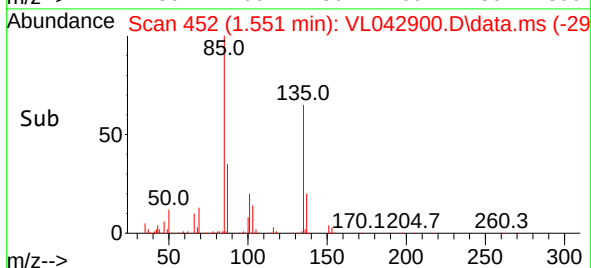
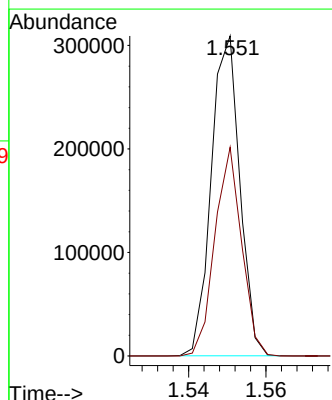
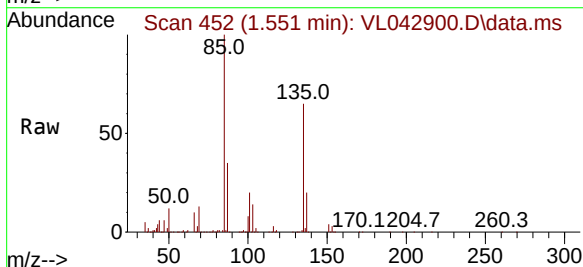
Manual Integrations
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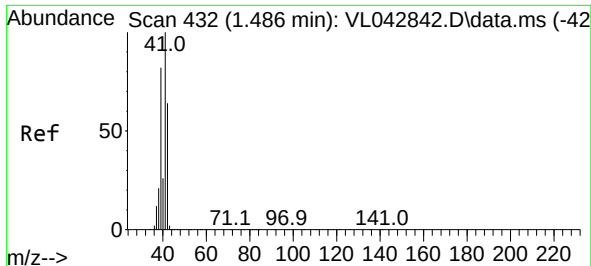
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

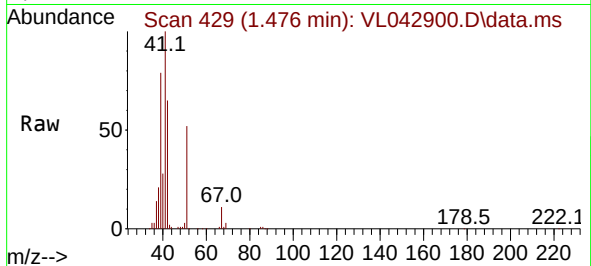
Tgt Ion: 85 Resp: 158303
Ion Ratio Lower Upper
85 100
135 61.2 51.2 76.8





#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

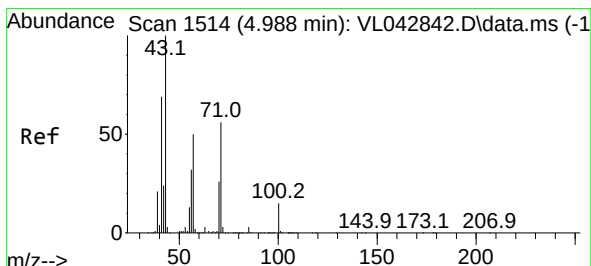
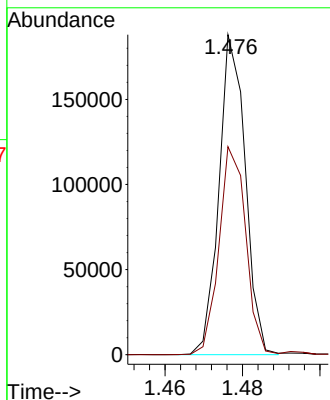
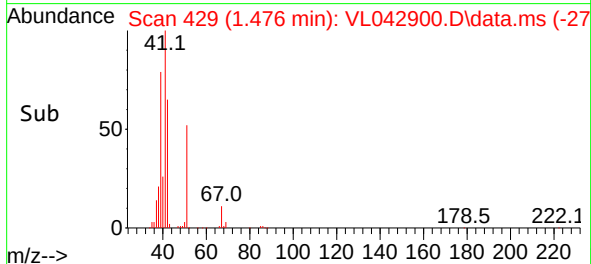
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



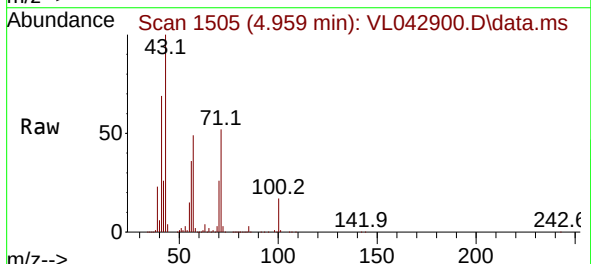
Tgt Ion: 41 Resp: 88702
 Ion Ratio Lower Upper
 41 100
 42 67.1 53.0 79.4

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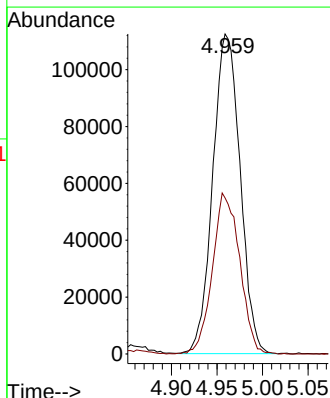
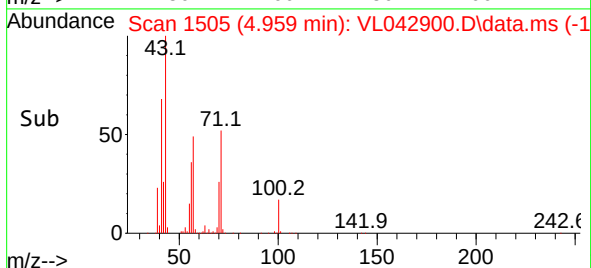
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

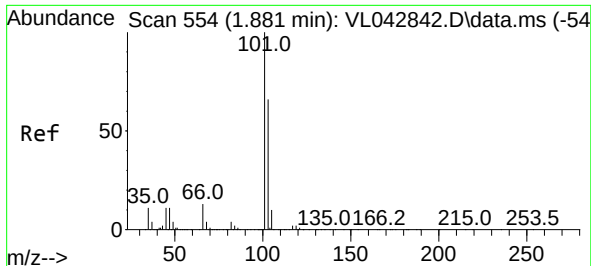


#10
 Heptane
 Concen: 9.898 ppbv
 RT: 4.959 min Scan# 1505
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



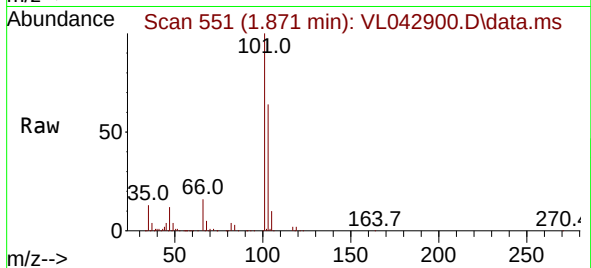
Tgt Ion: 43 Resp: 234952
 Ion Ratio Lower Upper
 43 100
 57 50.2 41.4 62.0





#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

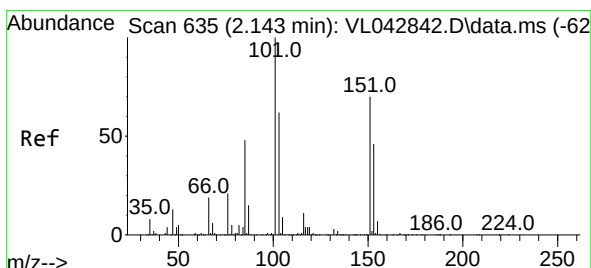
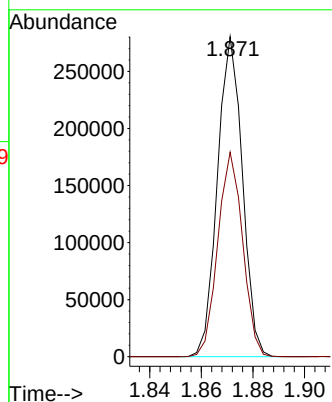
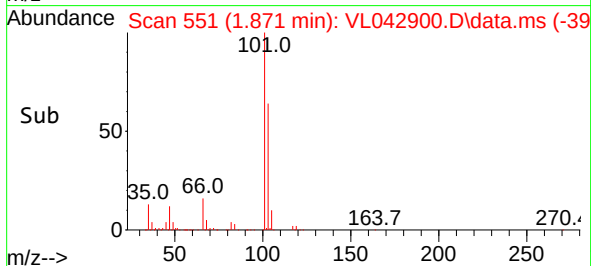
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



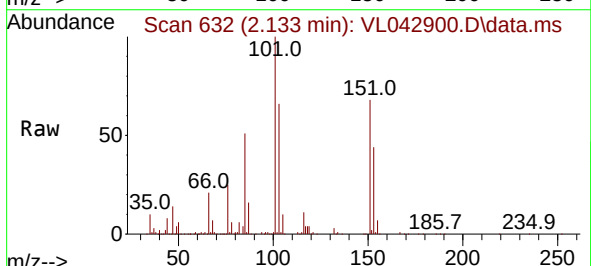
Tgt Ion:101 Resp: 188309
Ion Ratio Lower Upper
101 100
103 63.9 52.5 78.7

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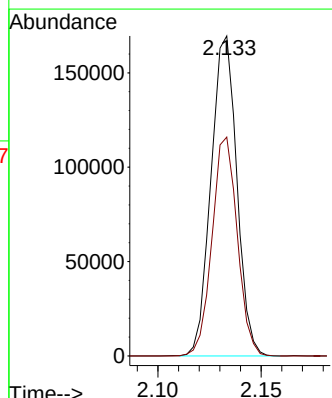
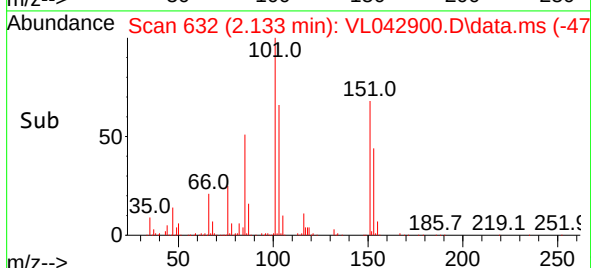
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

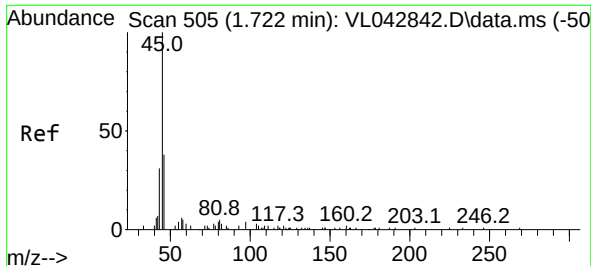


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.089 ppbv
RT: 2.133 min Scan# 632
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



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 :

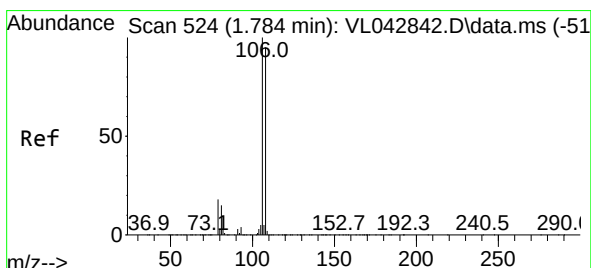
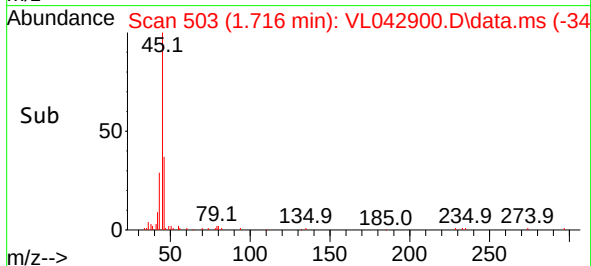
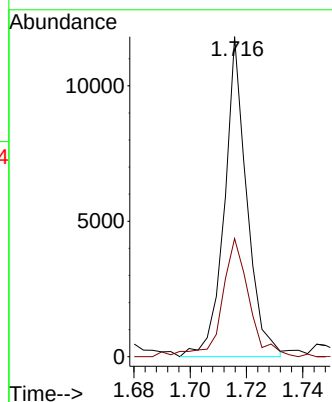
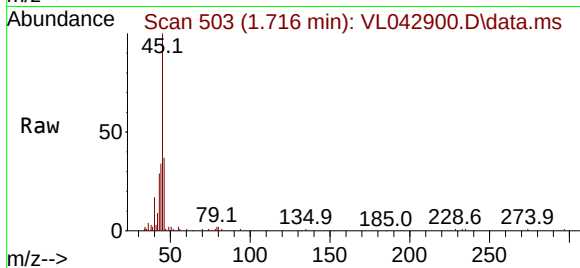
VSTDCCC010

Tgt Ion: 45 Resp: 6529
 Ion Ratio Lower Upper
 45 100
 46 44.8 17.5 69.9

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



#14

Bromoethene

Concen: 10.171 ppbv

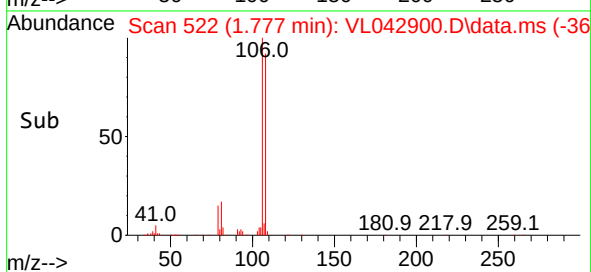
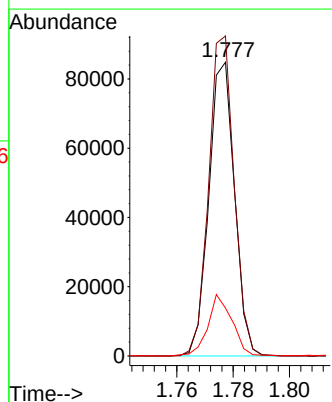
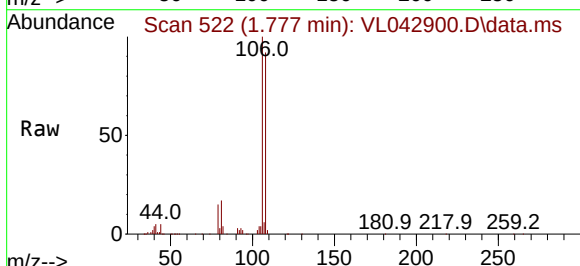
RT: 1.777 min Scan# 522

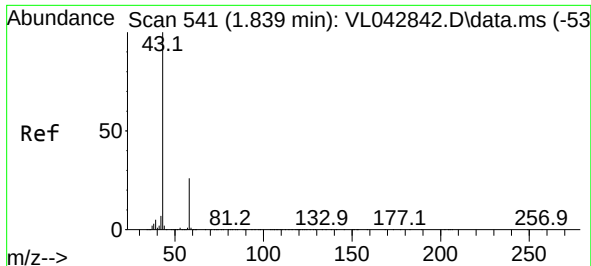
Delta R.T. 0.000 min

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





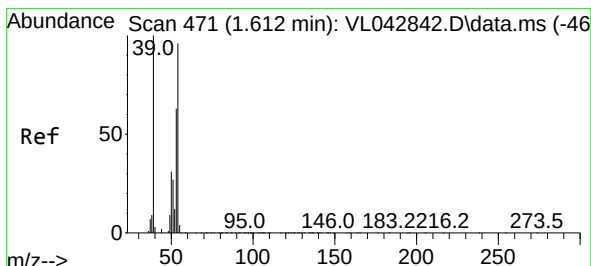
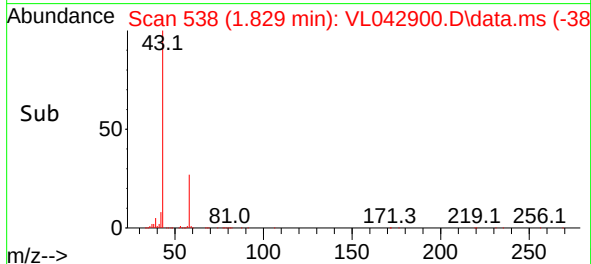
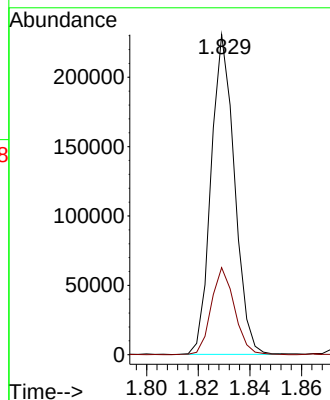
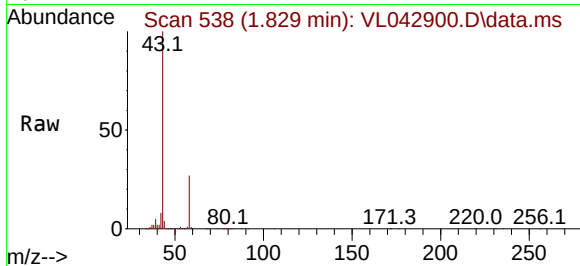
#15
Acetone
Concen: 8.670 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 145289
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

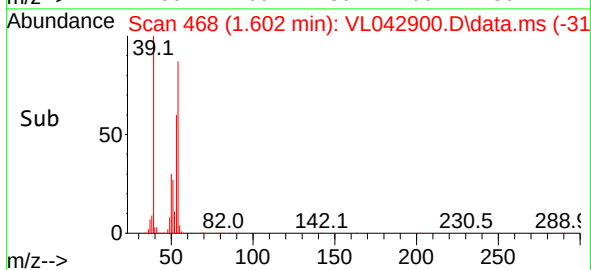
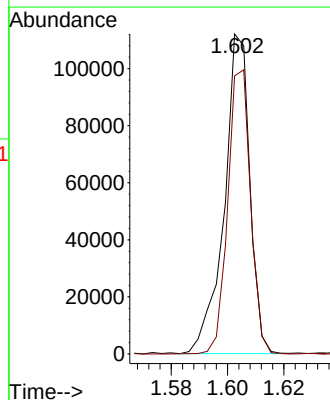
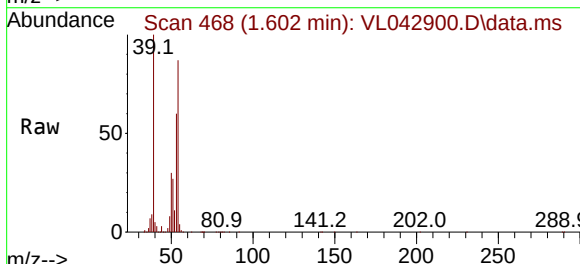
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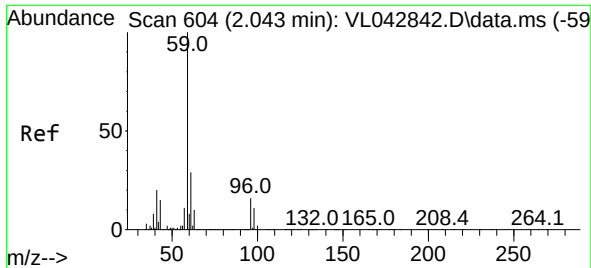
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

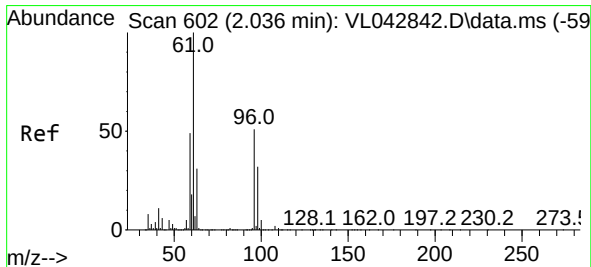
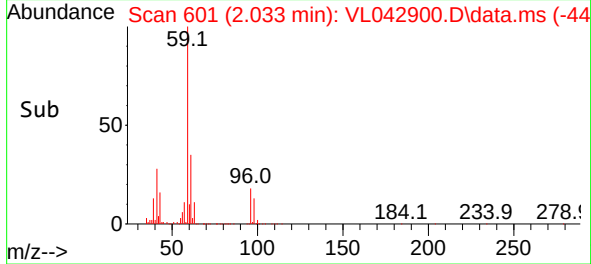
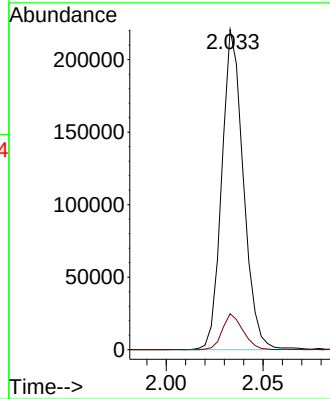
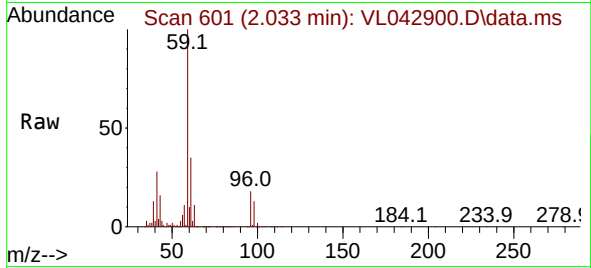
57 10.8 9.0 13.4

Manual Integrations

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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

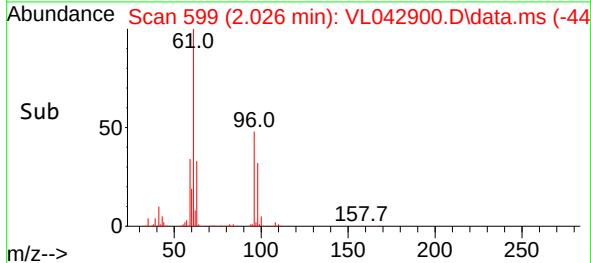
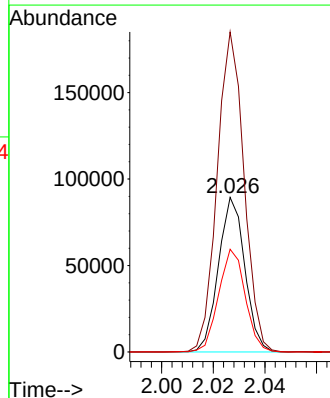
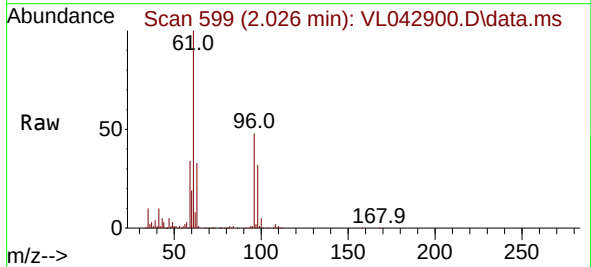
Tgt Ion: 96 Resp: 63544

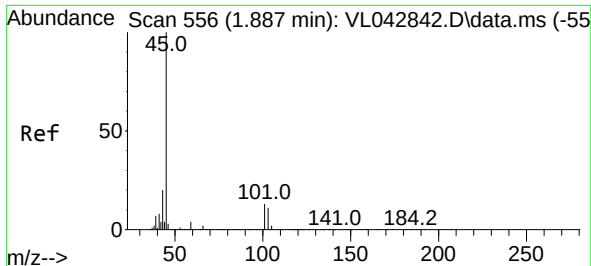
Ion Ratio Lower Upper

96 100

61 207.0 158.2 237.4

98 66.3 50.6 76.0





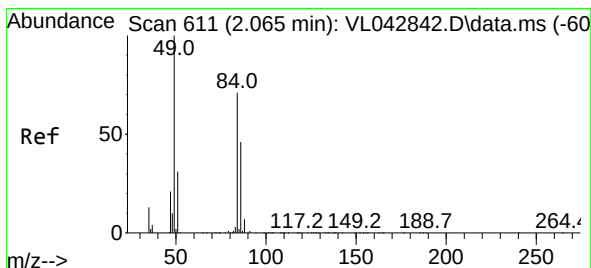
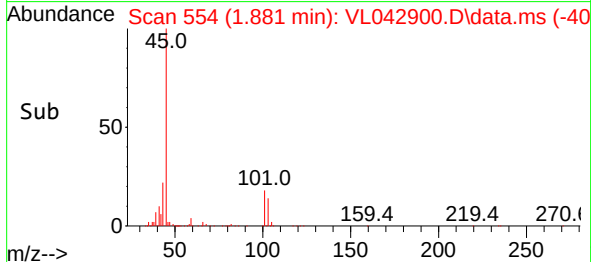
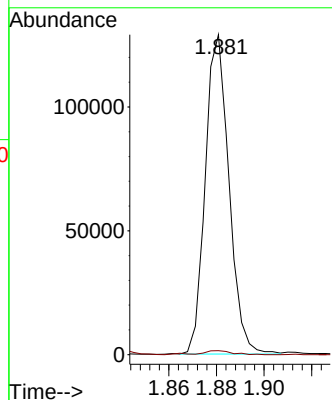
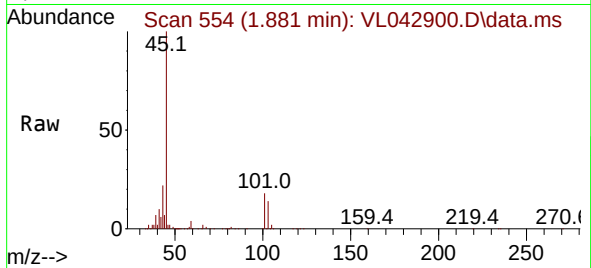
#19
Isopropyl Alcohol
Concen: 8.893 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 89009
Ion Ratio Lower Upper
45 100
58 44.1 32.7 49.1

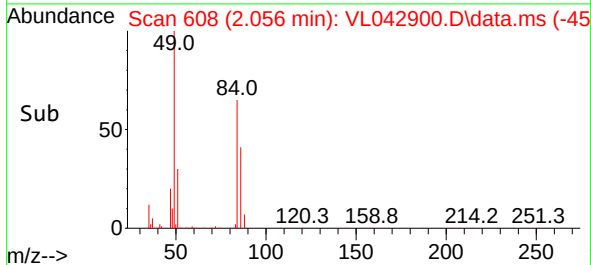
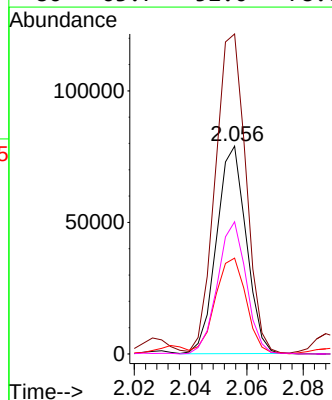
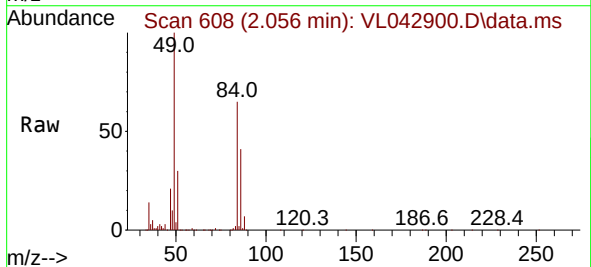
Manual Integrations
APPROVED

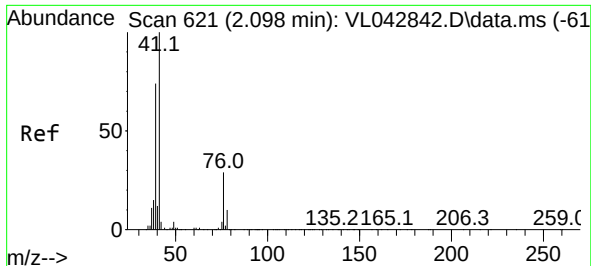
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

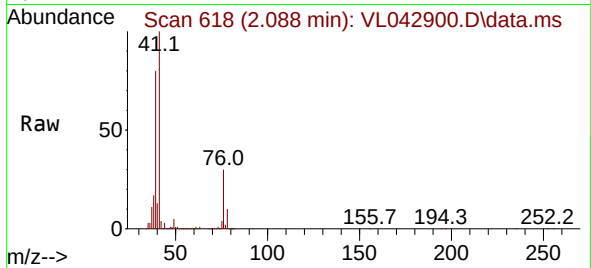
Tgt Ion: 84 Resp: 57698
Ion Ratio Lower Upper
84 100
49 153.6 112.3 168.5
51 45.6 36.0 54.0
86 63.7 52.0 78.0





#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

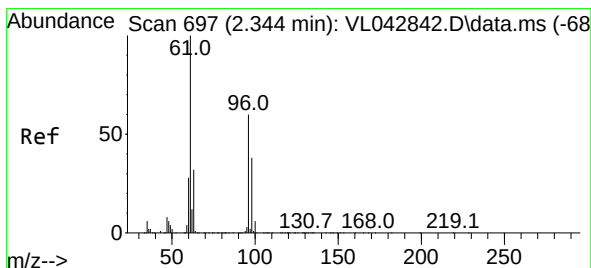
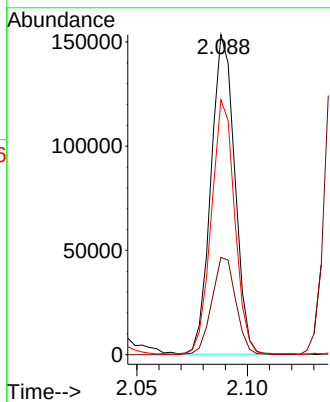
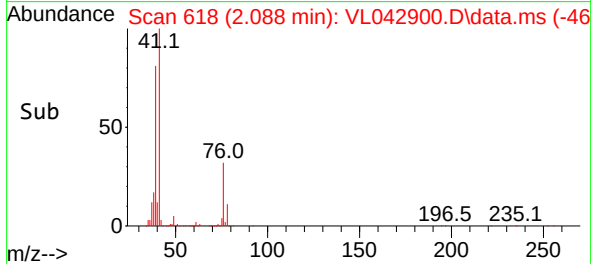
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



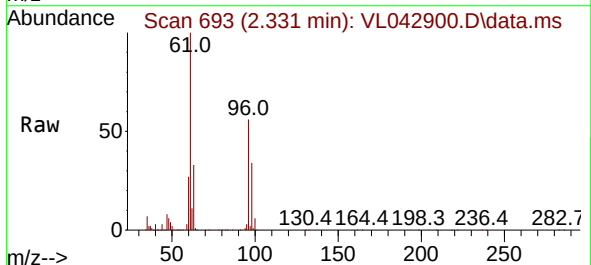
Tgt Ion: 41 Resp: 11433
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 78.4 57.8 86.6

Manual Integrations
 APPROVED

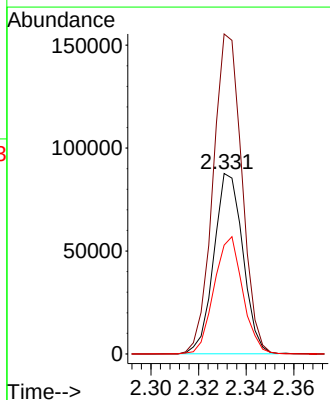
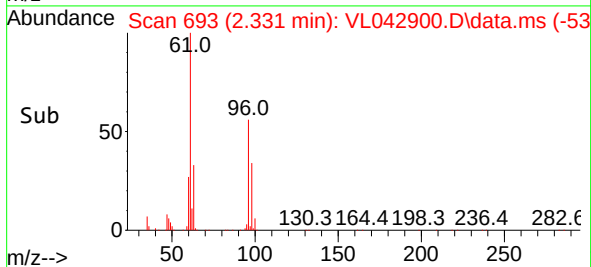
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

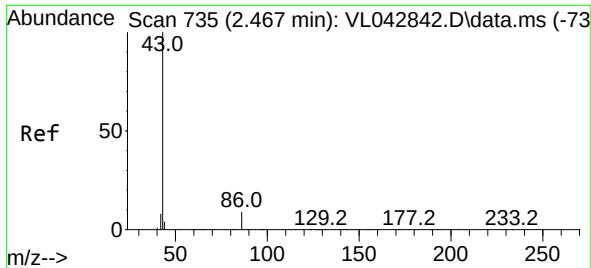


#22
 trans-1,2-Dichloroethene
 Concen: 9.971 ppbv
 RT: 2.331 min Scan# 693
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



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





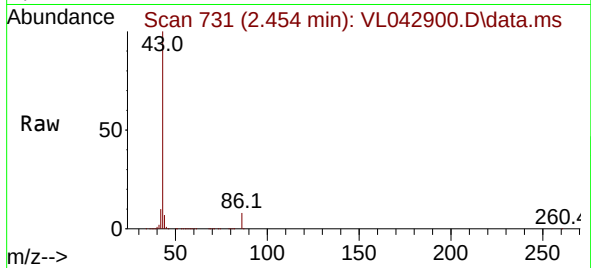
#23
 Vinyl Acetate
 Concen: 9.907 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

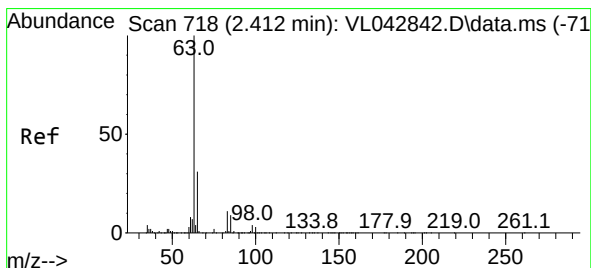
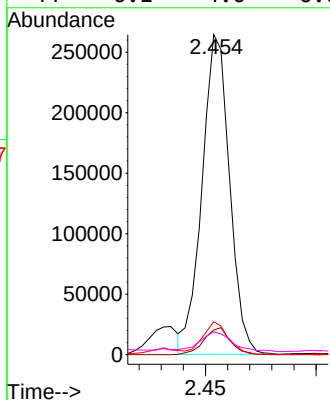
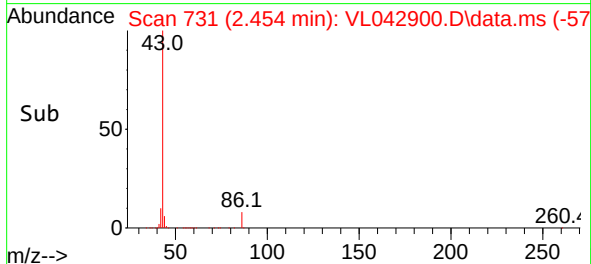


Tgt Ion: 43 Resp: 228268
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.6 9.8
 42 10.3 7.0 10.6
 44 6.1 4.0 6.0#

Manual Integrations

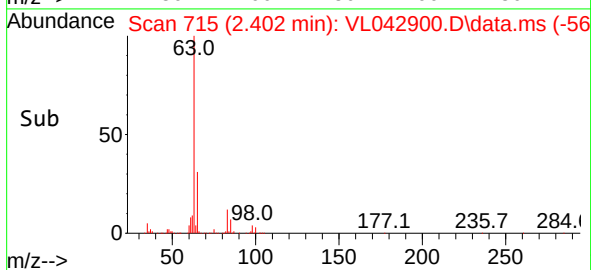
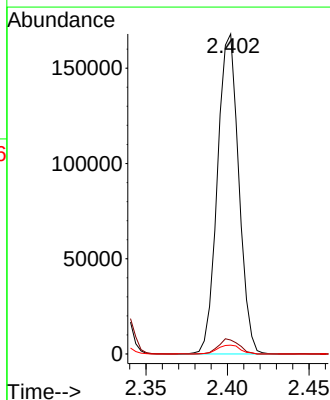
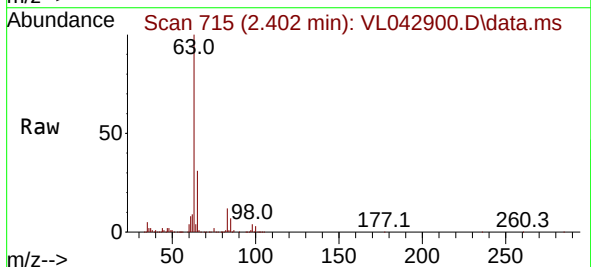
APPROVED

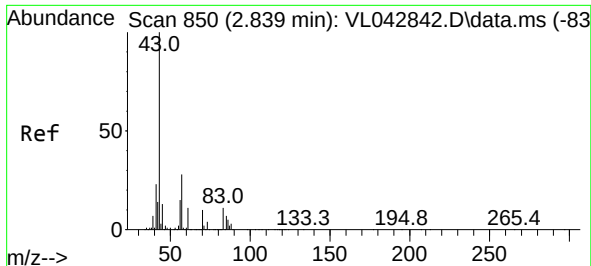
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

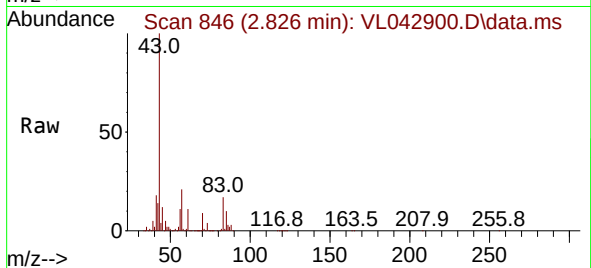
Tgt Ion: 63 Resp: 152618
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.1 6.5
 100 2.7 1.7 5.1





#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

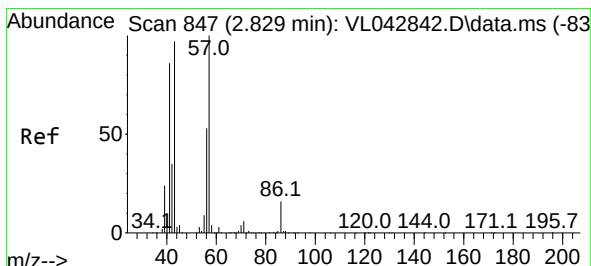
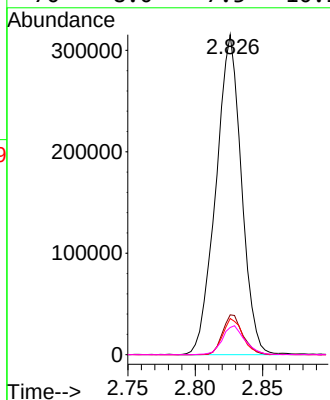
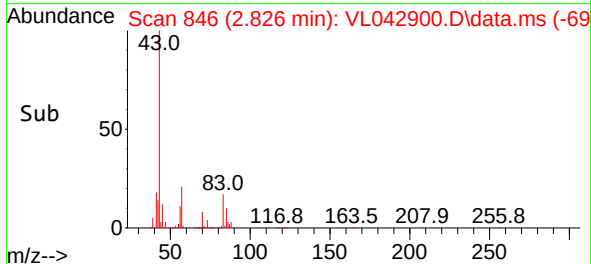
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

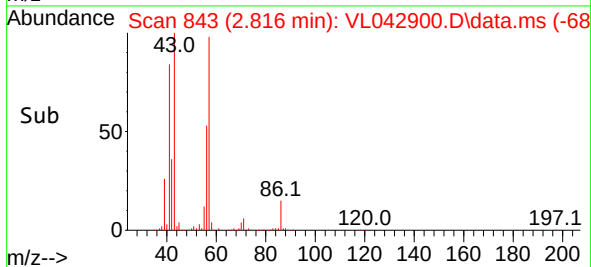
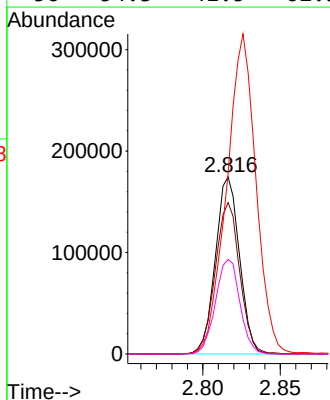
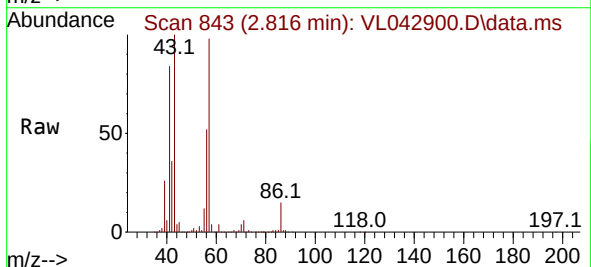
Manual Integrations
APPROVED

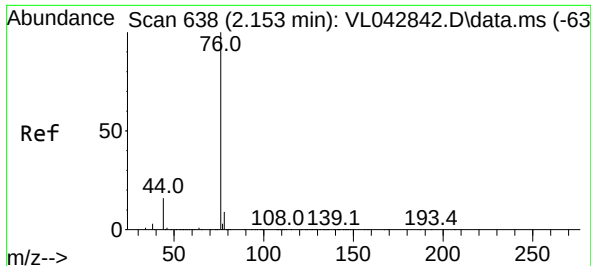
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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 :

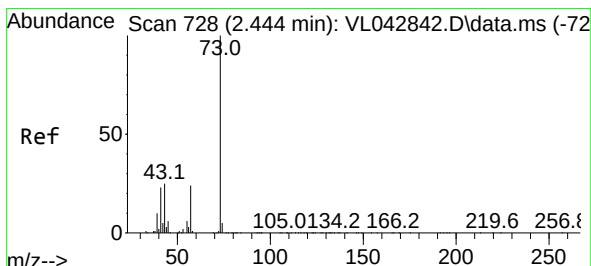
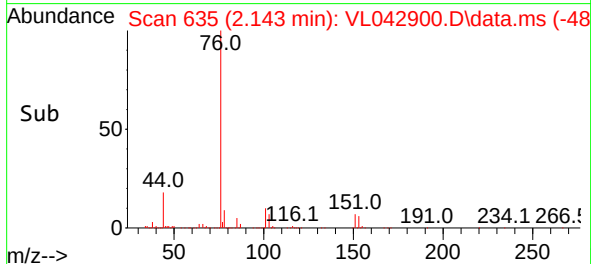
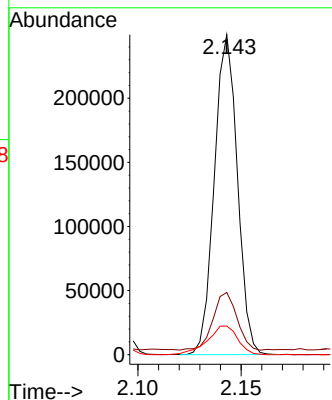
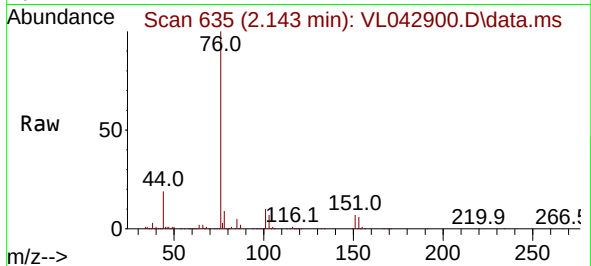
VSTDCCC010

Tgt Ion:	76	Resp:	19326
Ion	Ratio	Lower	Upper
76	100		
44	18.7	15.9	23.9
78	11.8	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: 8.986 ppbv

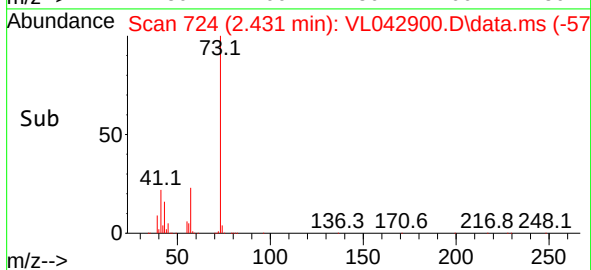
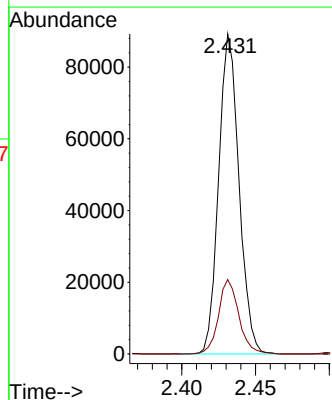
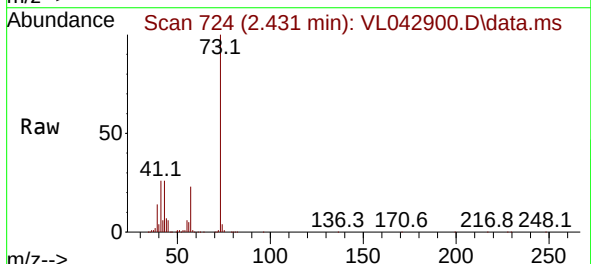
RT: 2.431 min Scan# 724

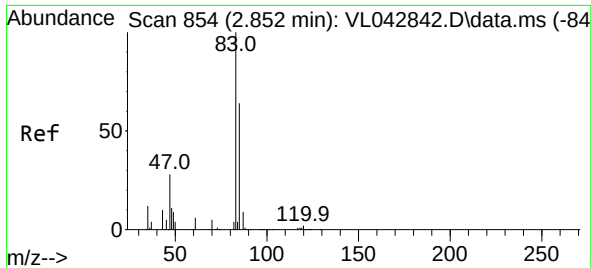
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

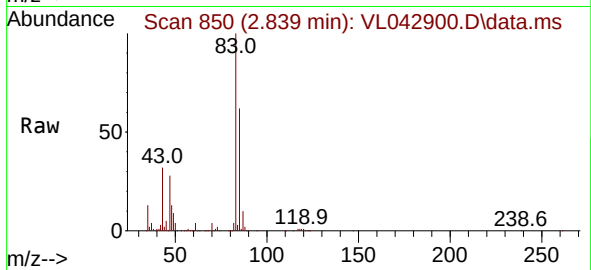
Tgt Ion:	73	Resp:	85774
Ion	Ratio	Lower	Upper
73	100		
57	23.3	21.6	32.4





#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

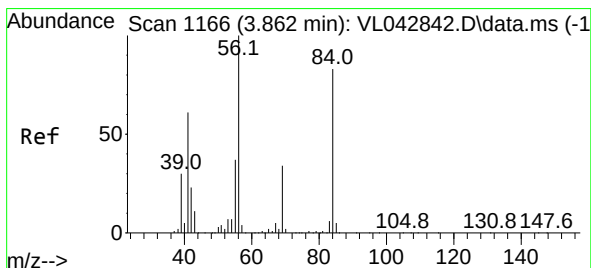
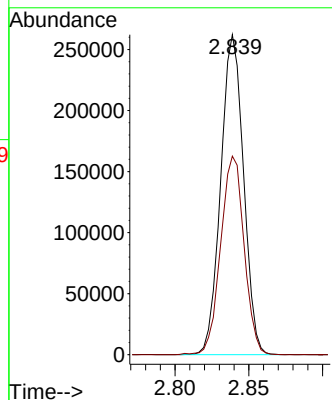
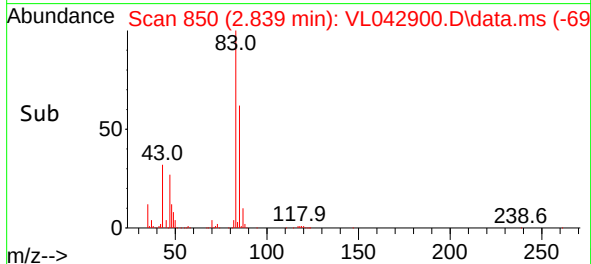
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 83 Resp: 281659
Ion Ratio Lower Upper
83 100
85 62.0 51.1 76.7

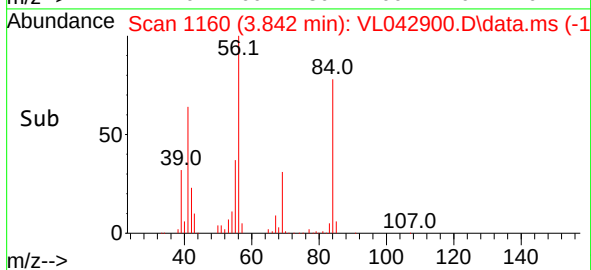
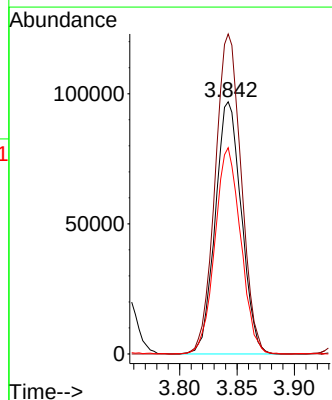
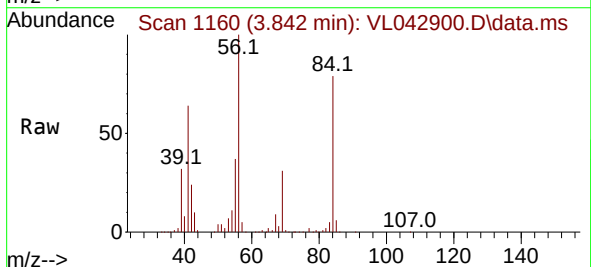
Manual Integrations
APPROVED

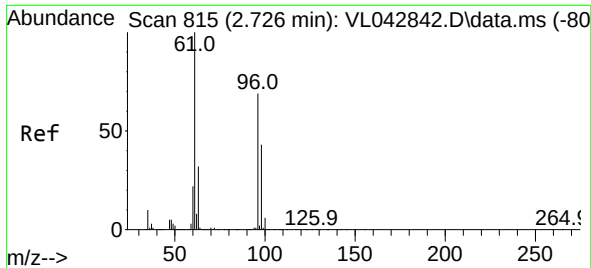
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

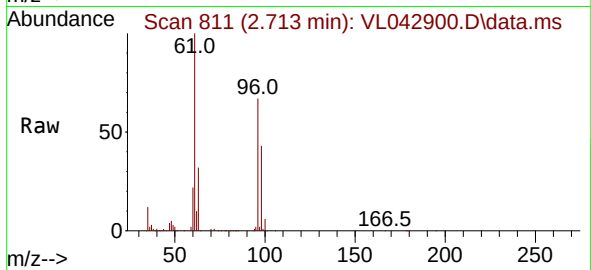
Tgt Ion: 84 Resp: 153066
Ion Ratio Lower Upper
84 100
56 127.0 98.8 148.2
41 81.3 61.3 91.9





#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

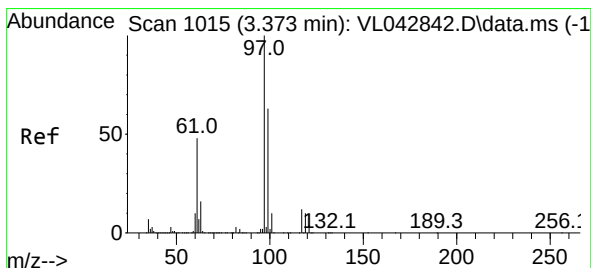
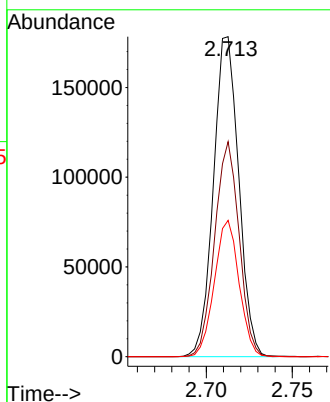
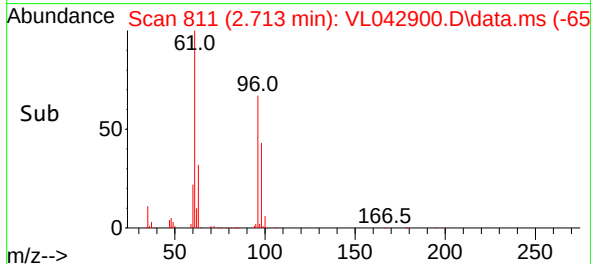
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



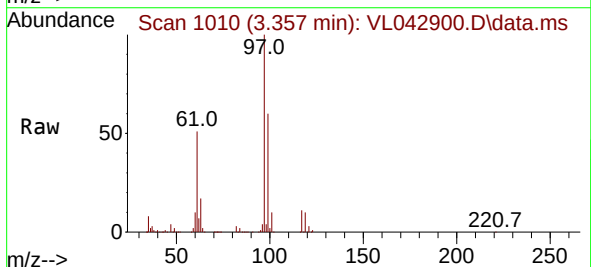
Tgt Ion: 61 Resp: 182592
 Ion Ratio Lower Upper
 61 100
 96 67.1 55.0 82.6
 98 42.6 34.3 51.5

Manual Integrations
 APPROVED

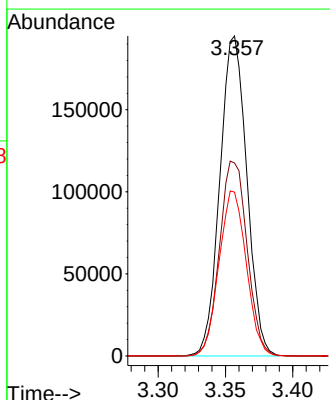
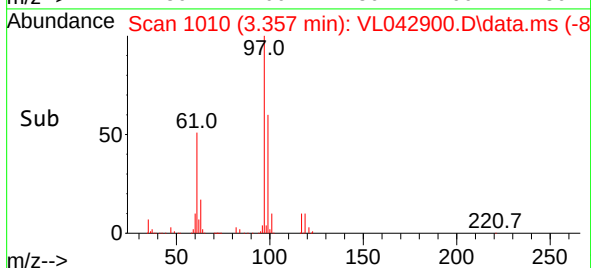
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

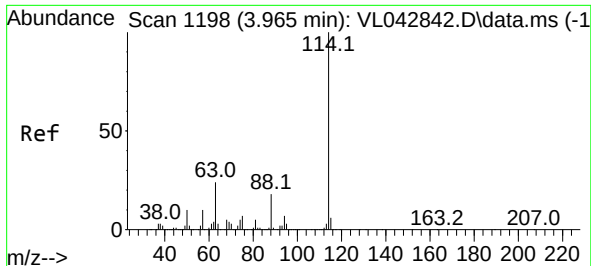


#32
 1,1,1-Trichloroethane
 Concen: 9.609 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



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# 1191

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

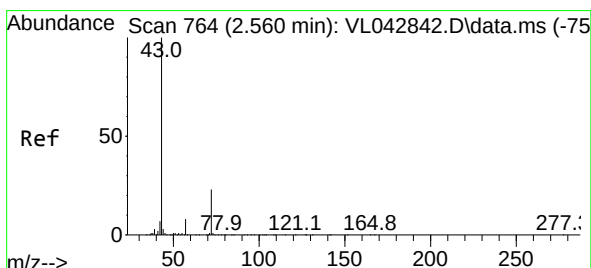
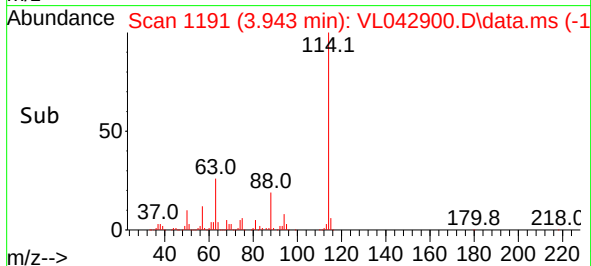
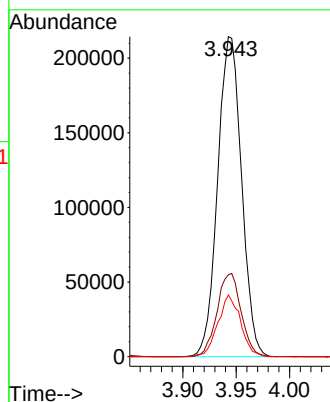
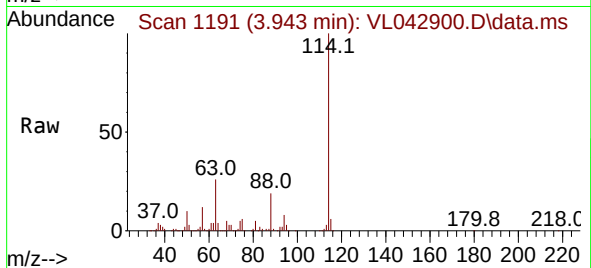
88 18.2 14.4 21.6

Manual Integrations

APPROVED

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

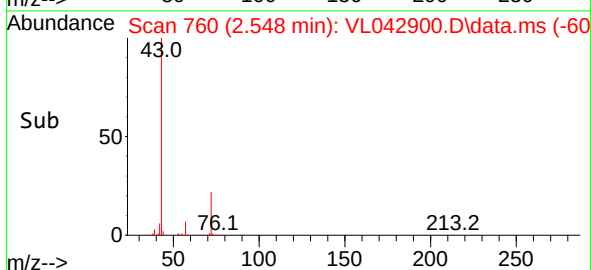
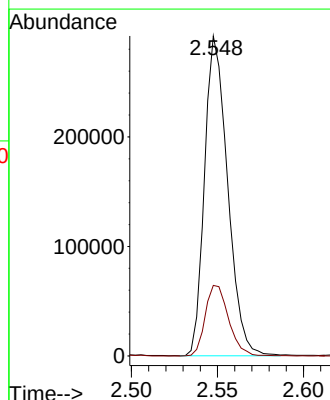
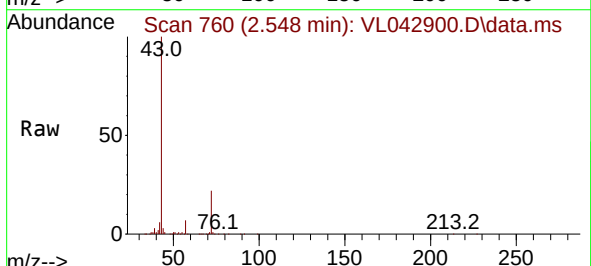
Acq: 08 Sep 2025 11:05

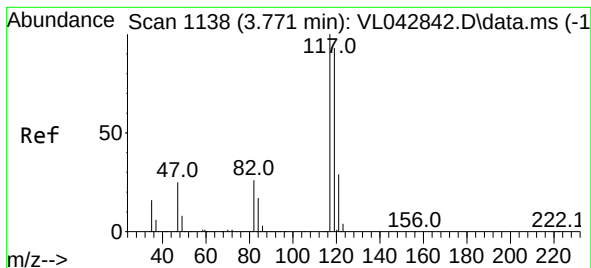
Tgt Ion: 43 Resp: 272735

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

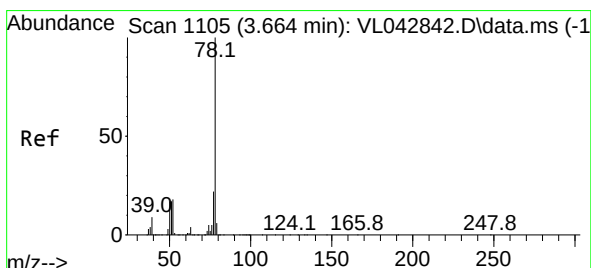
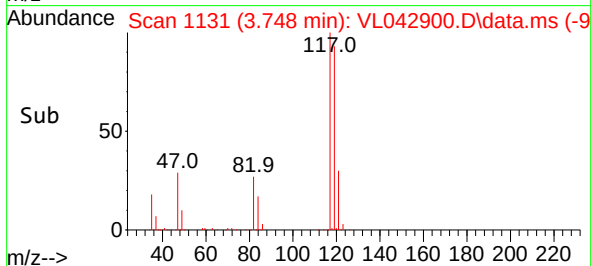
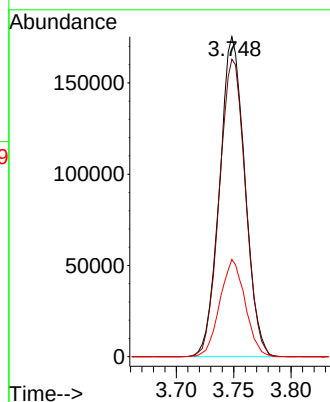
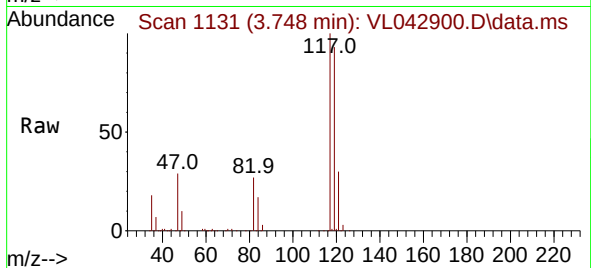
Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.7	112.1
121	30.4	23.2	34.8

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

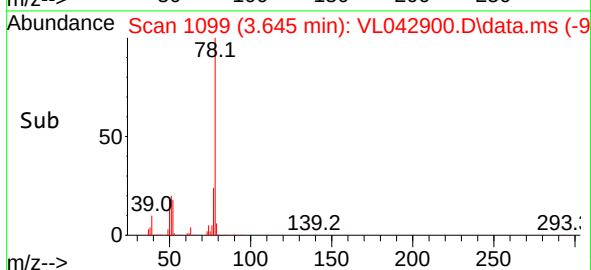
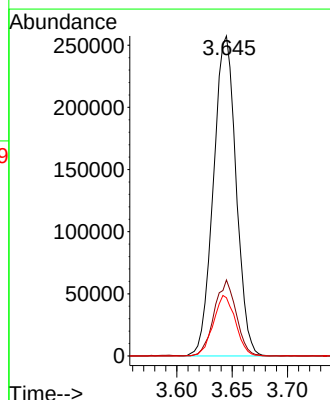
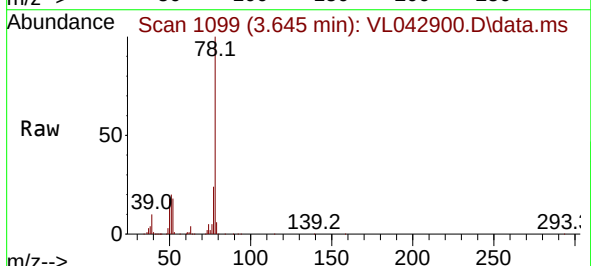
Delta R.T. 0.000 min

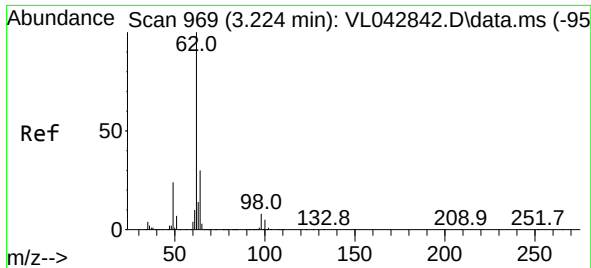
Lab File: VL042900.D

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





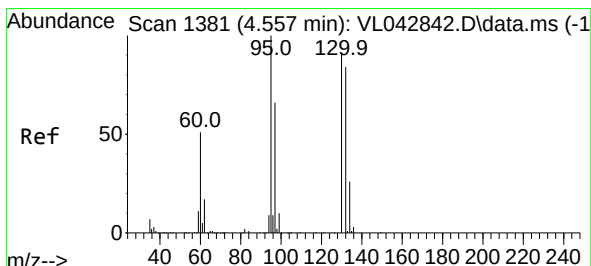
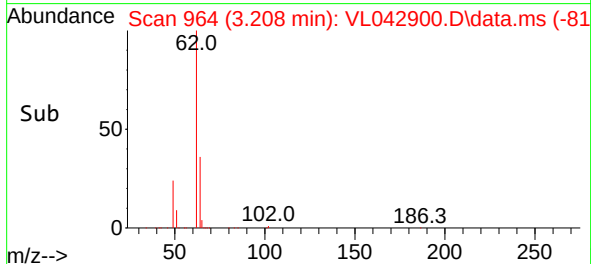
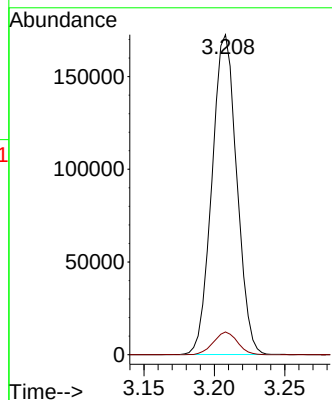
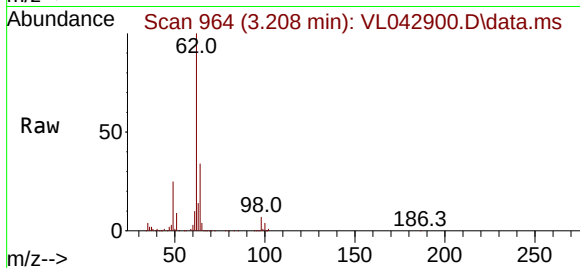
#37
1,2-Dichloroethane
Concen: 12.686 ppbv
RT: 3.208 min Scan# 90
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 211728
Ion Ratio Lower Upper
62 100
98 6.9 5.9 8.9

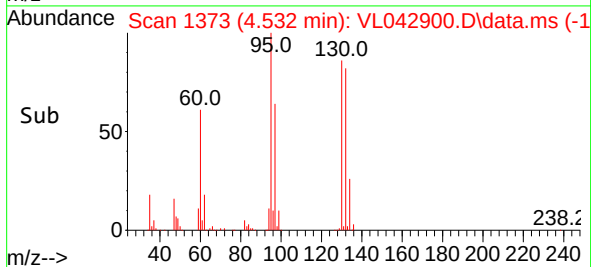
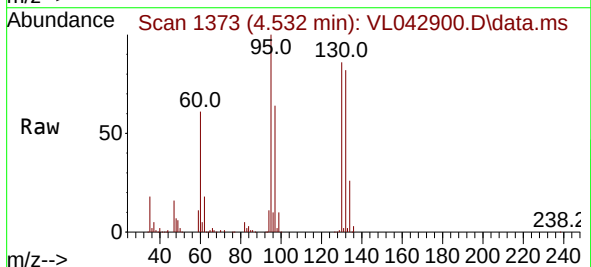
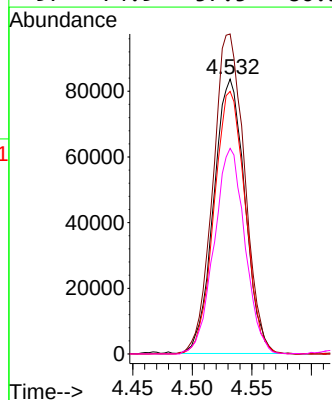
Manual Integrations
APPROVED

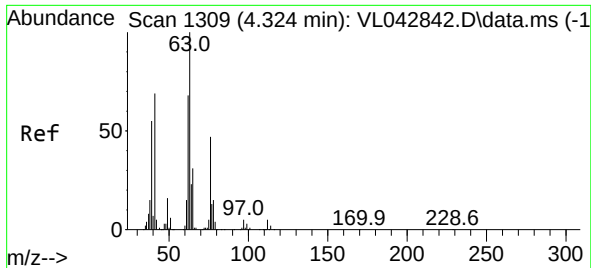
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

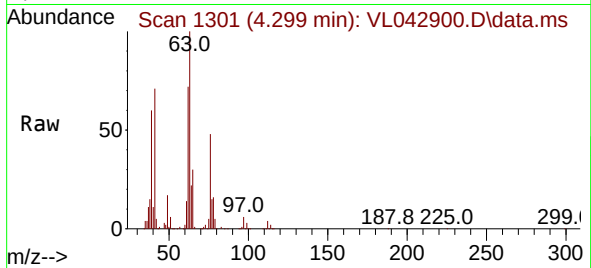
Tgt Ion:130 Resp: 151915
Ion Ratio Lower Upper
130 100
95 116.1 87.6 131.4
132 95.4 73.8 110.8
97 74.9 57.5 86.3





#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

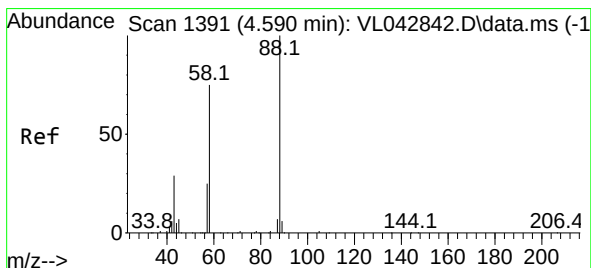
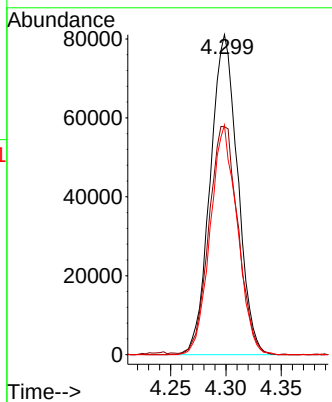
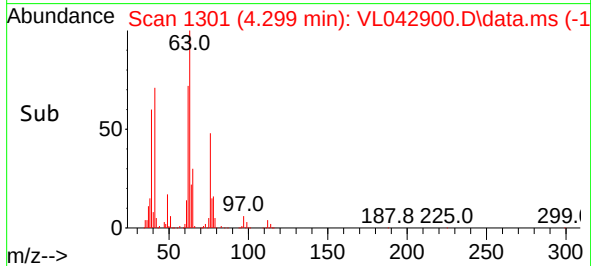
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



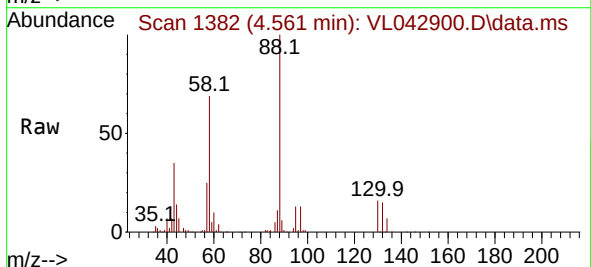
Tgt Ion: 63 Resp: 13965
Ion Ratio Lower Upper
63 100
41 71.2 55.0 82.4
62 71.8 54.4 81.6

Manual Integrations
APPROVED

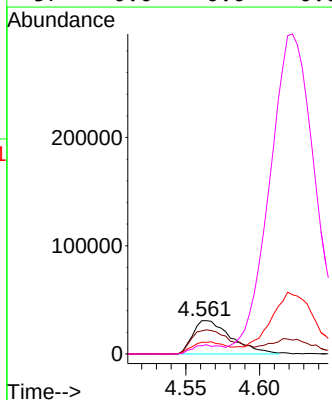
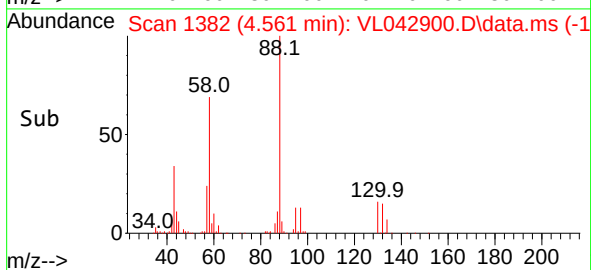
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

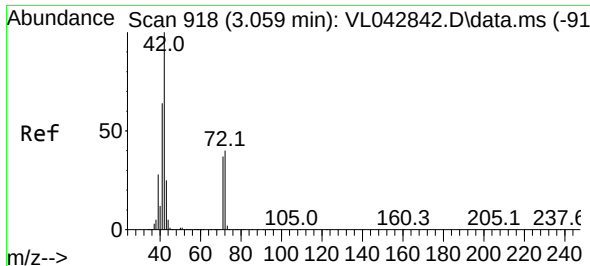


#40
1,4-Dioxane
Concen: 10.096 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



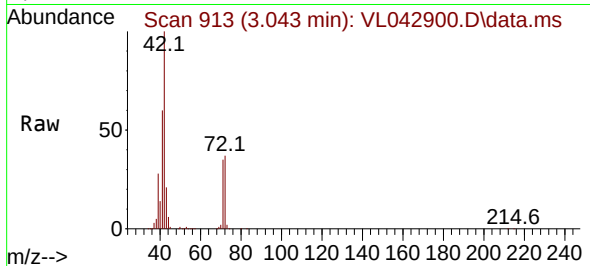
Tgt Ion: 88 Resp: 56013
Ion Ratio Lower Upper
88 100
58 76.6 53.8 80.6
43 35.7 22.8 34.2#
57 0.0 0.0 0.0





#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

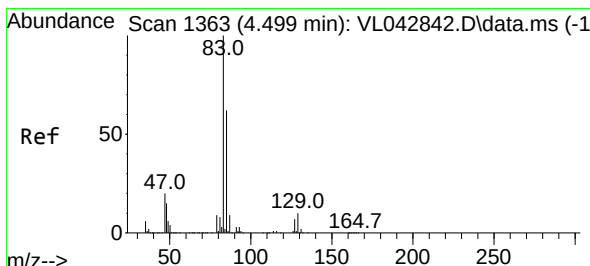
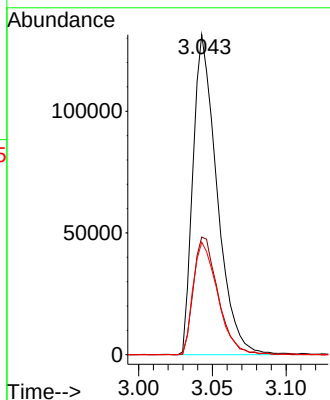
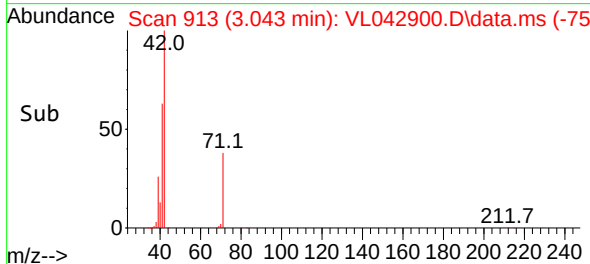
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

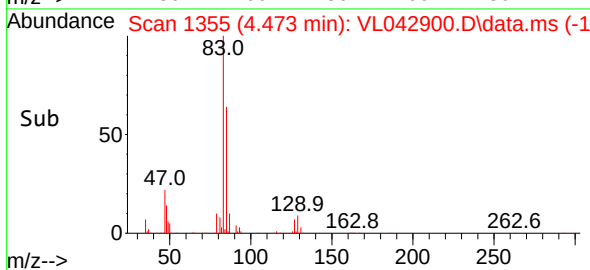
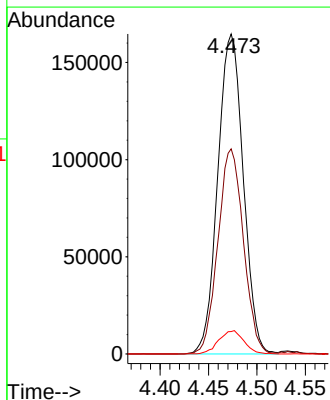
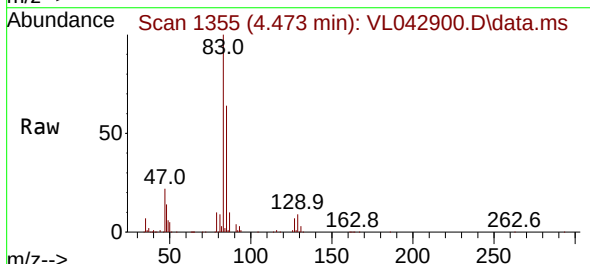
Manual Integrations
APPROVED

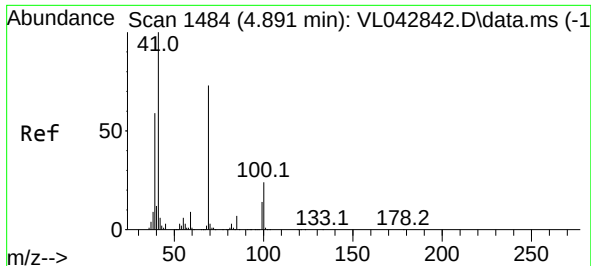
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





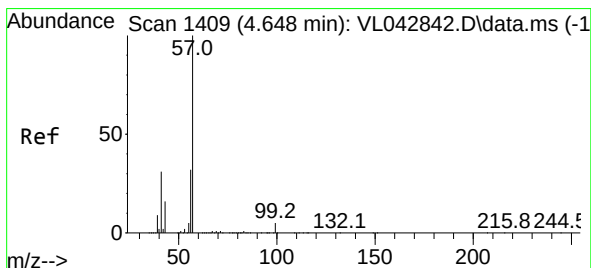
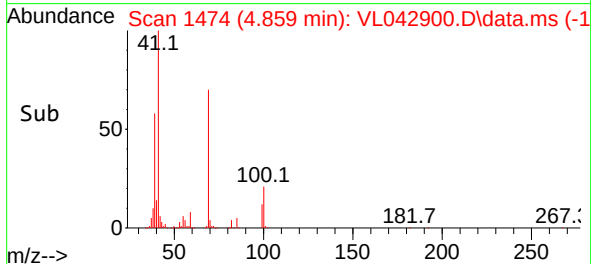
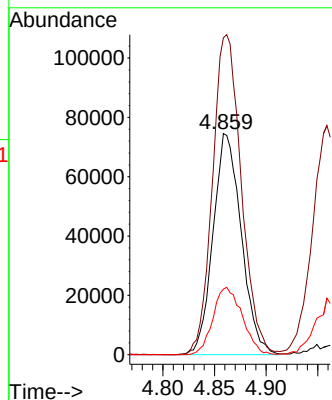
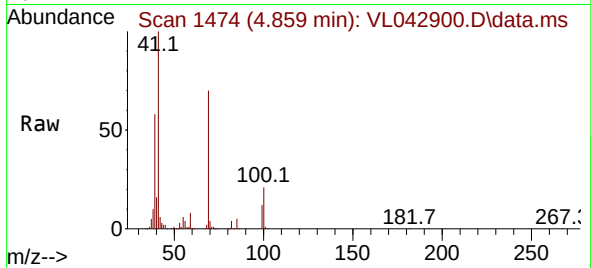
#43
Methyl Methacrylate
Concen: 10.776 ppbv
RT: 4.859 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

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

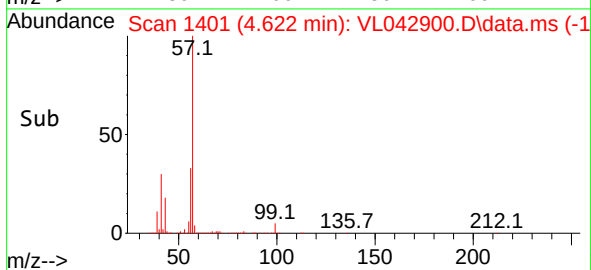
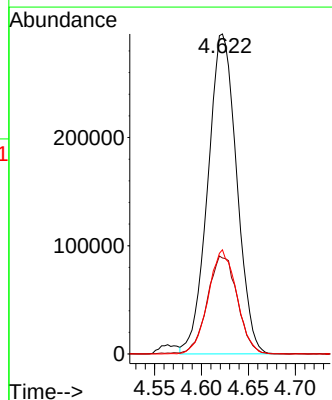
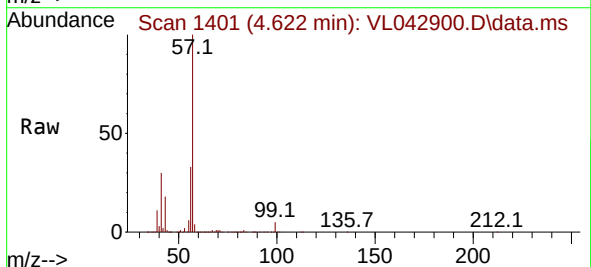
Manual Integrations
APPROVED

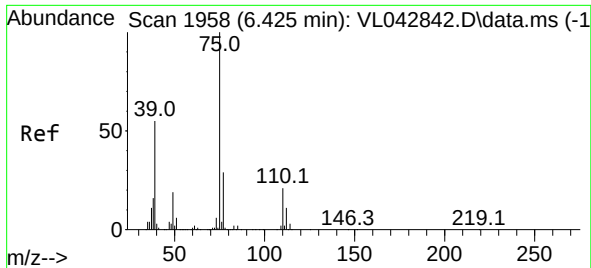
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





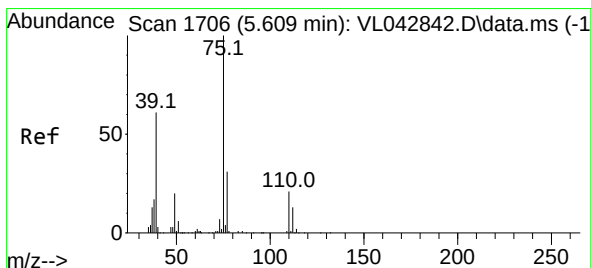
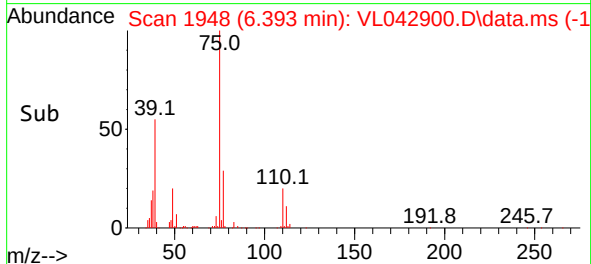
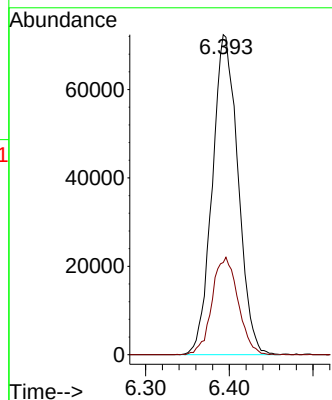
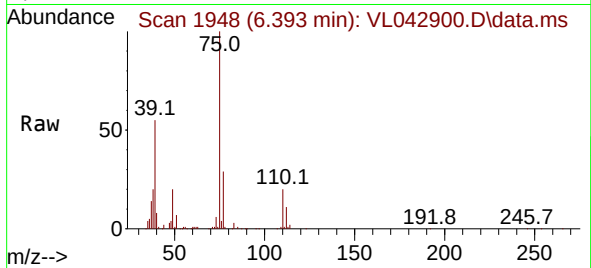
#45
 t-1,3-Dichloropropene
 Concen: 10.411 ppbv
 RT: 6.393 min Scan# 1948
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 75 Resp: 15462
 Ion Ratio Lower Upper
 75 100
 77 28.8 23.8 35.6

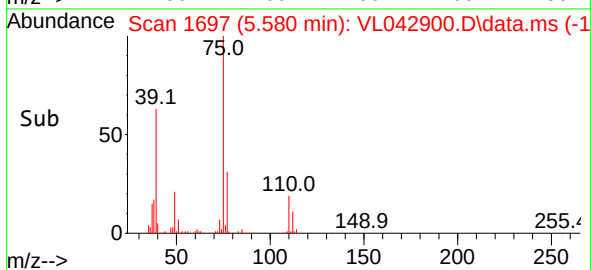
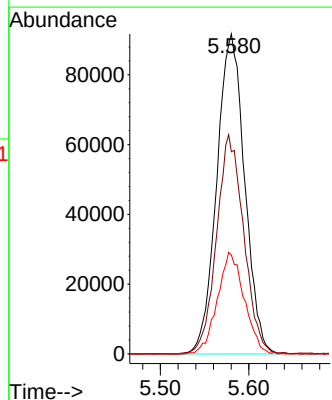
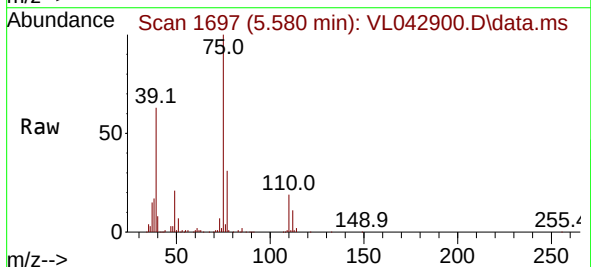
Manual Integrations
 APPROVED

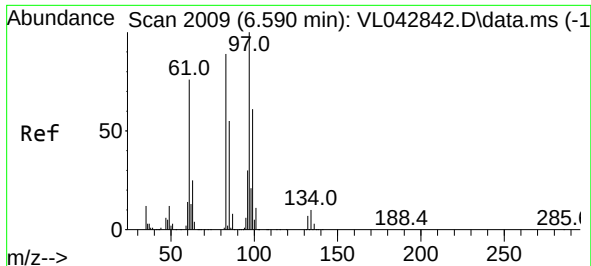
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

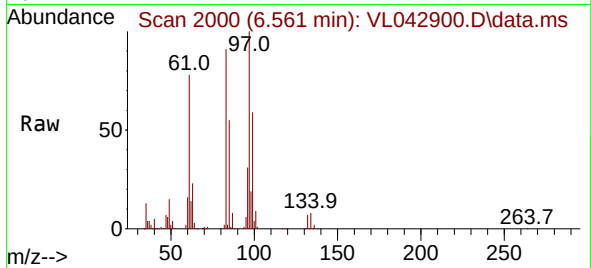
Tgt Ion: 75 Resp: 200797
 Ion Ratio Lower Upper
 75 100
 39 63.0 48.9 73.3
 77 30.9 24.9 37.3





#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

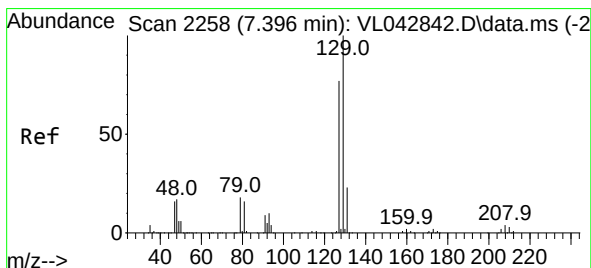
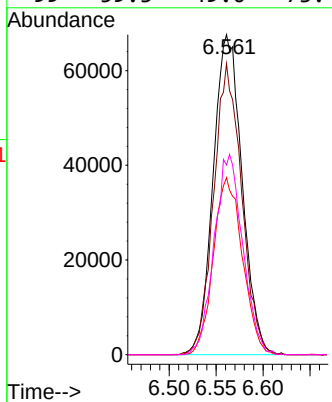
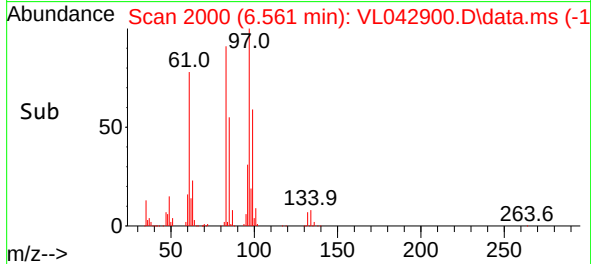
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion	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

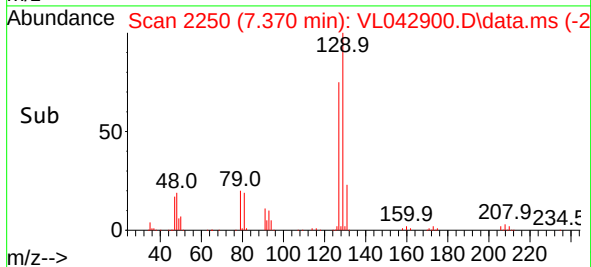
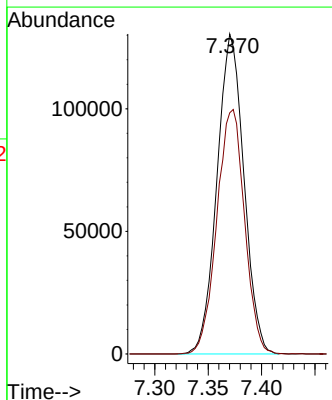
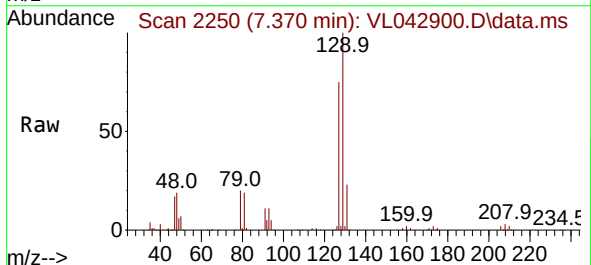
Manual Integrations
APPROVED

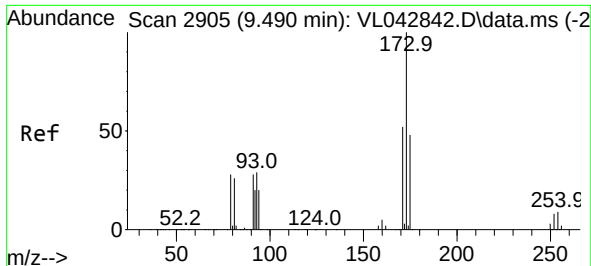
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

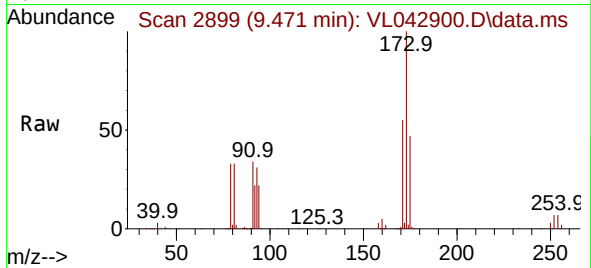
Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.4	118.2





#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

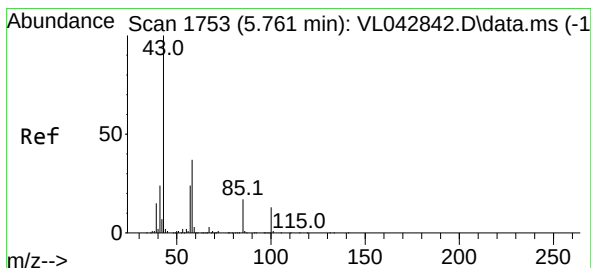
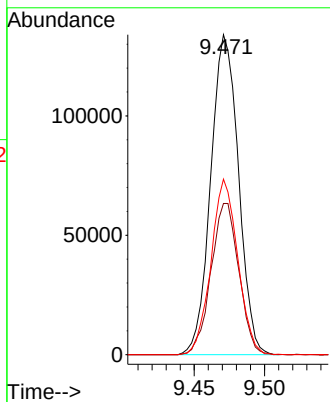
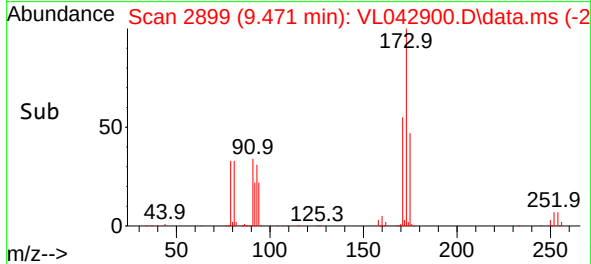
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

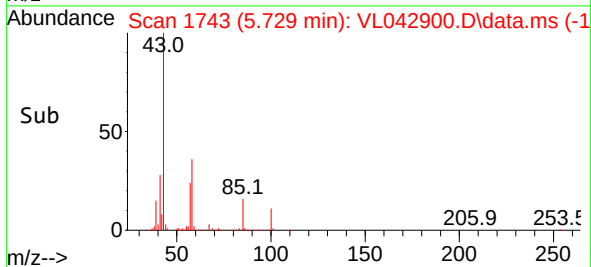
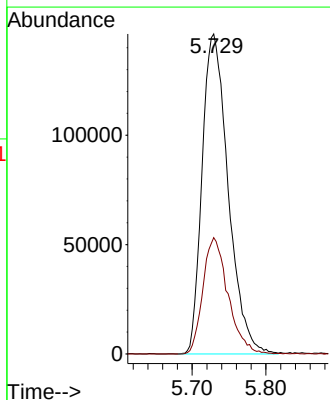
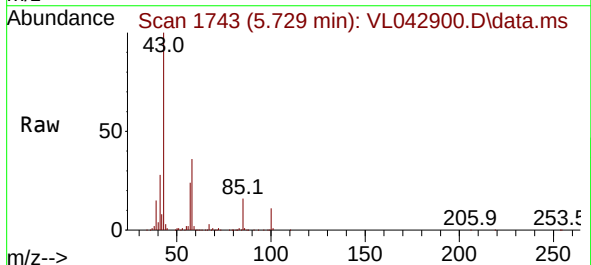
Manual Integrations
APPROVED

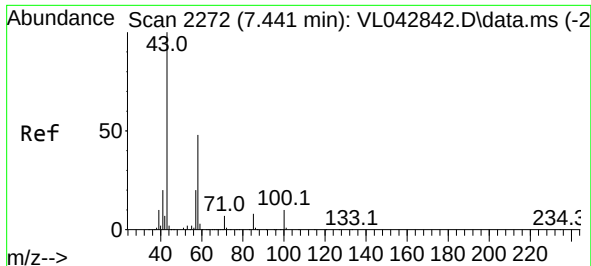
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

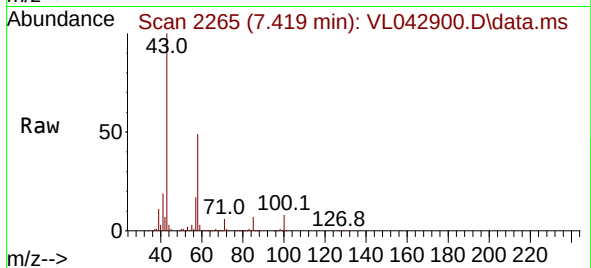
Tgt Ion: 43 Resp: 359329
Ion Ratio Lower Upper
43 100
58 35.0 29.8 44.8





#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

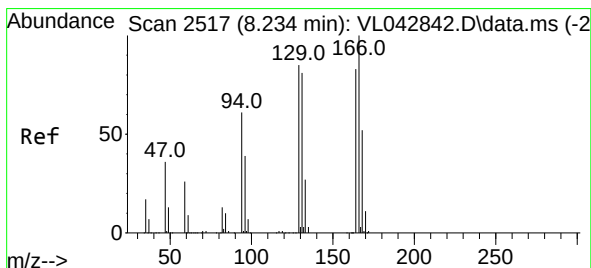
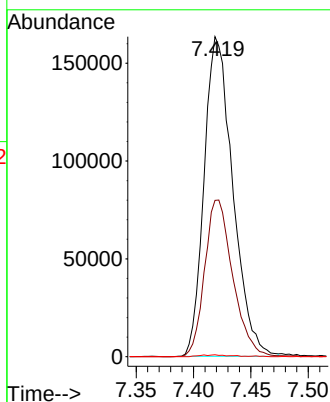
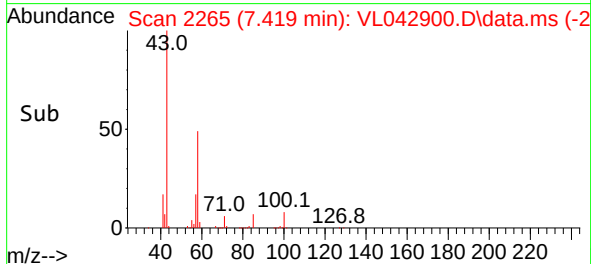
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

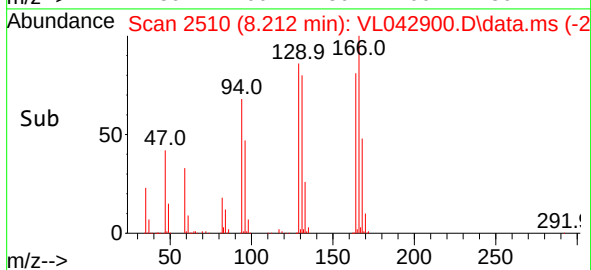
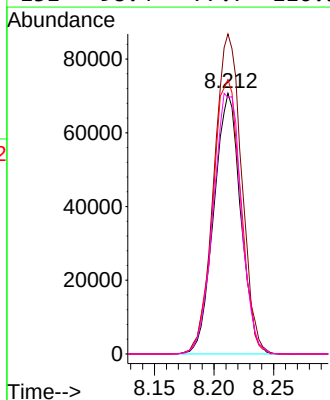
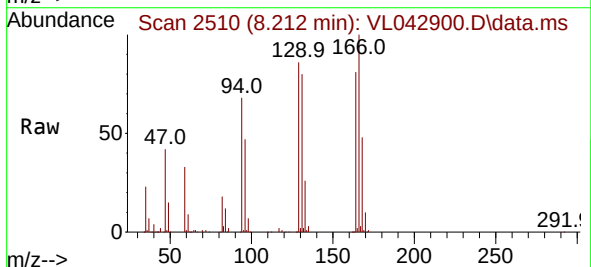
Manual Integrations
APPROVED

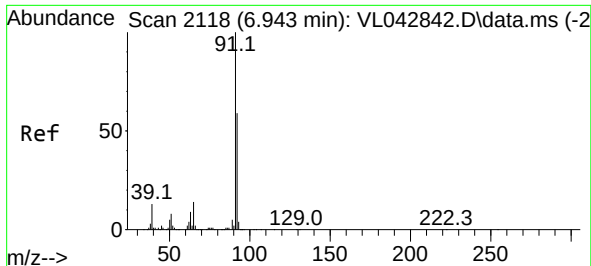
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

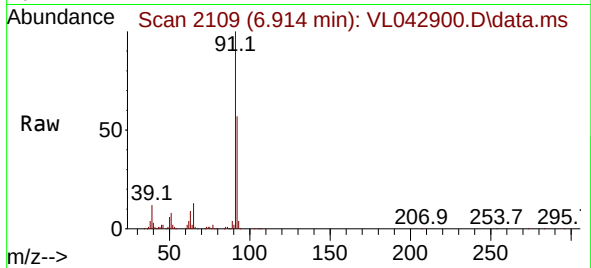
Tgt Ion:164 Resp: 110334
Ion Ratio Lower Upper
164 100
166 122.8 96.5 144.7
129 105.2 81.8 122.6
131 98.4 77.7 116.5





#53
Toluene
Concen: 10.587 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

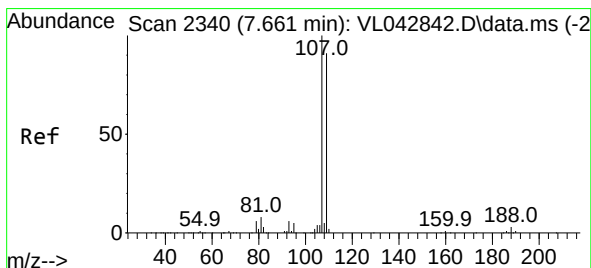
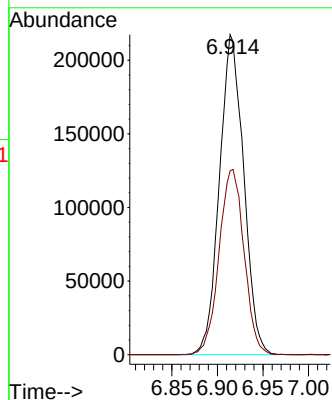
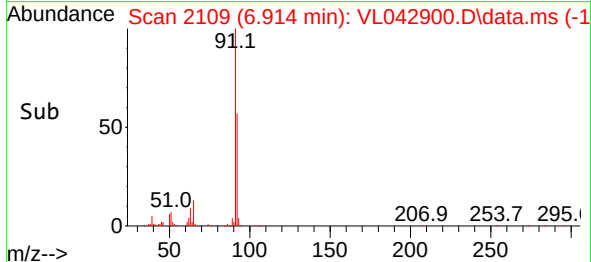
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



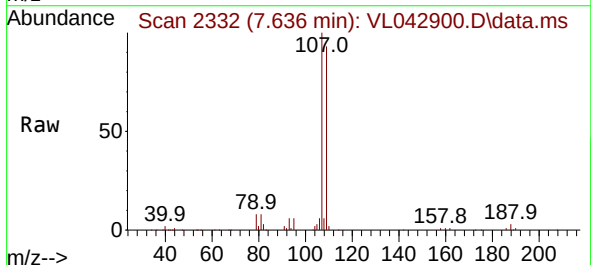
Tgt Ion: 91 Resp: 402080
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

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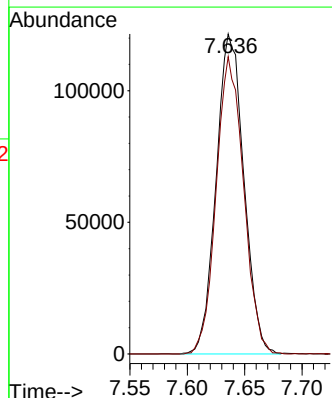
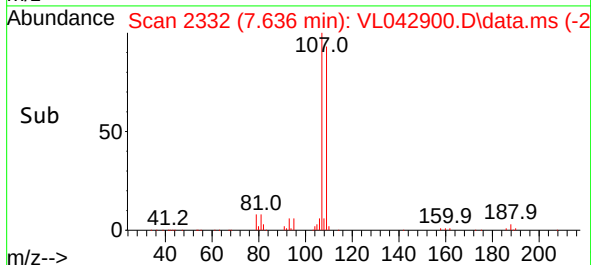
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

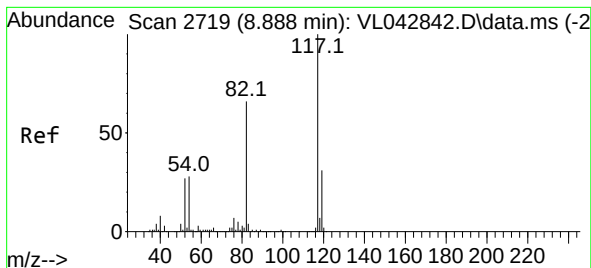


#54
1,2-Dibromoethane
Concen: 11.307 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



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

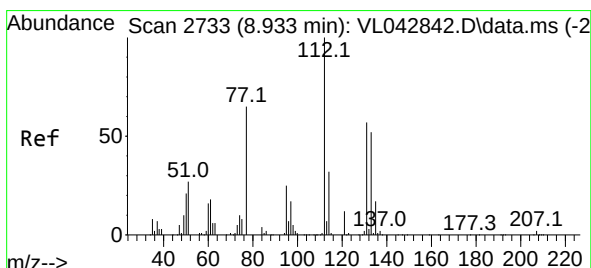
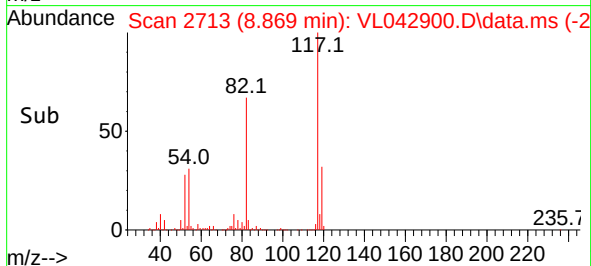
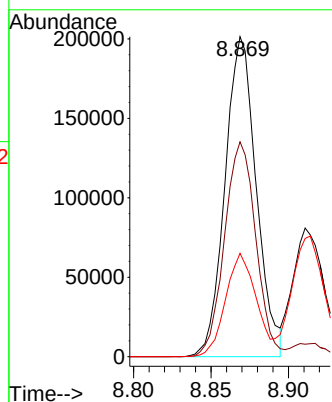
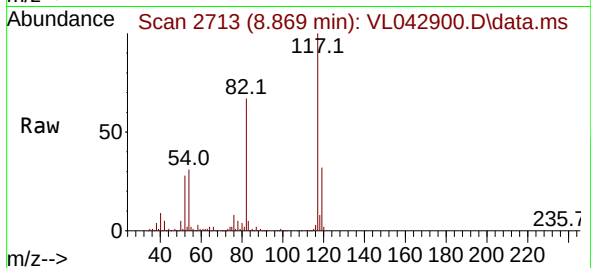
Tgt Ion:117	Resp: 282770
Ion Ratio	Lower Upper
117 100	
82 71.7	54.6 81.8
119 33.1	25.9 38.9

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

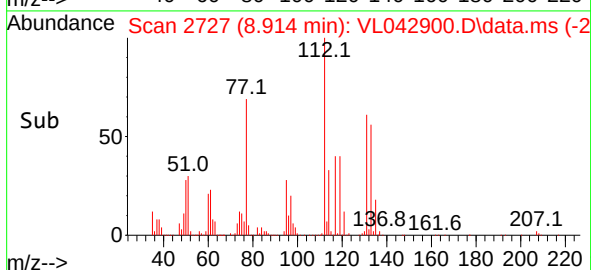
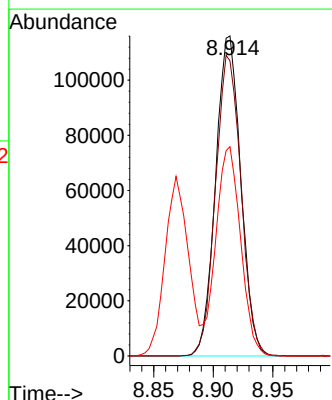
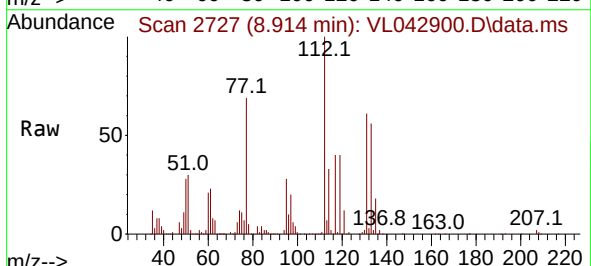
RT: 8.914 min Scan# 2727

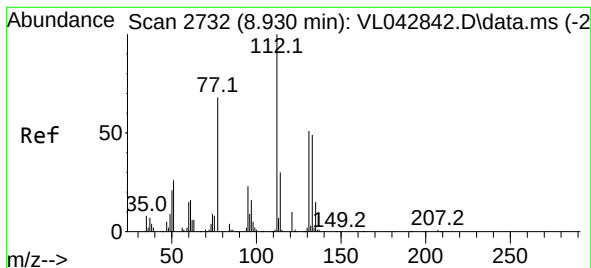
Delta R.T. 0.000 min

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 :

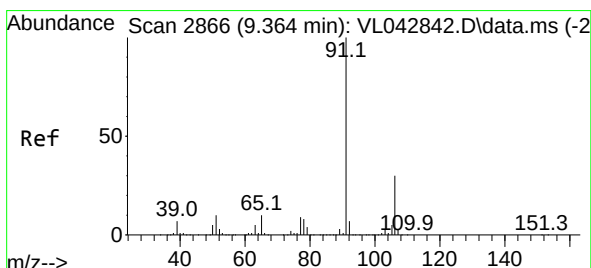
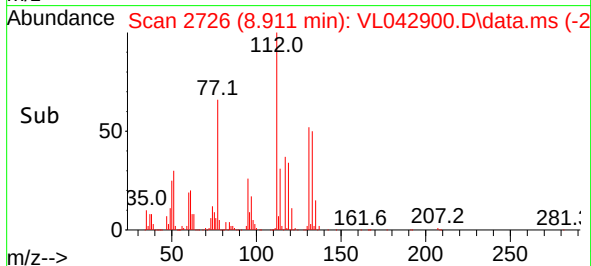
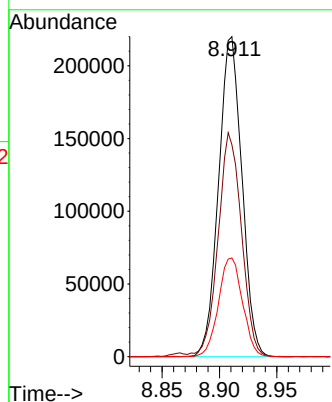
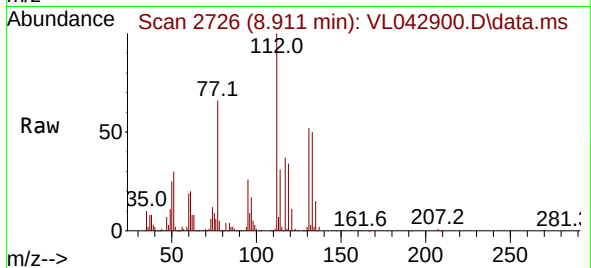
VSTDCCC010

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

APPROVED

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



#58

Ethyl Benzene

Concen: 11.184 ppbv

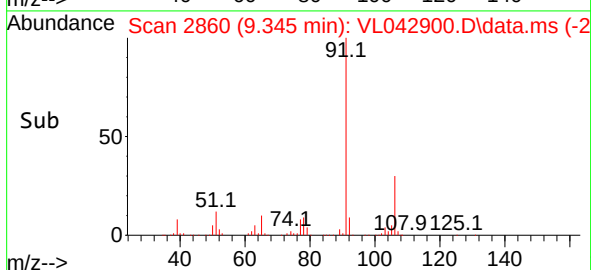
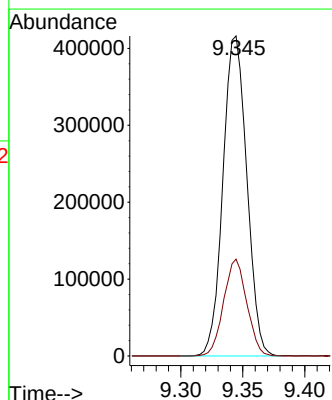
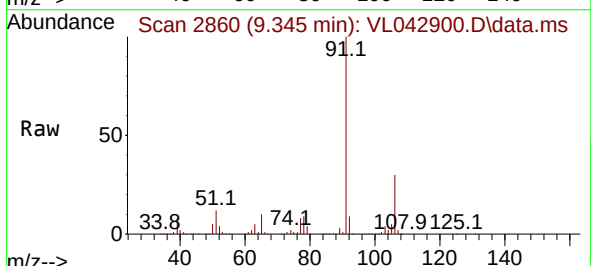
RT: 9.345 min Scan# 2860

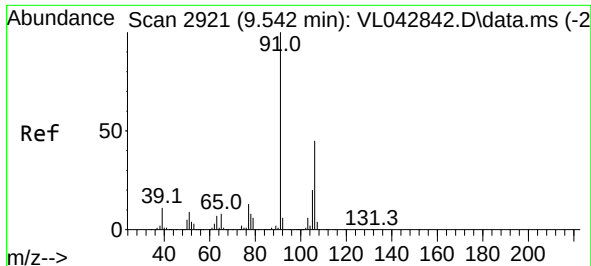
Delta R.T. 0.000 min

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





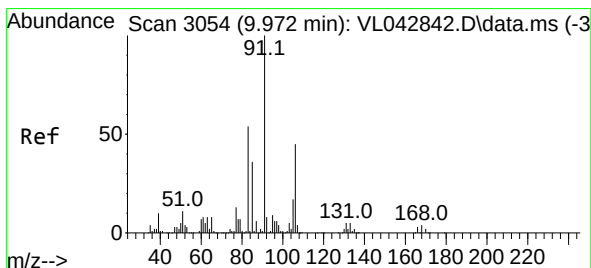
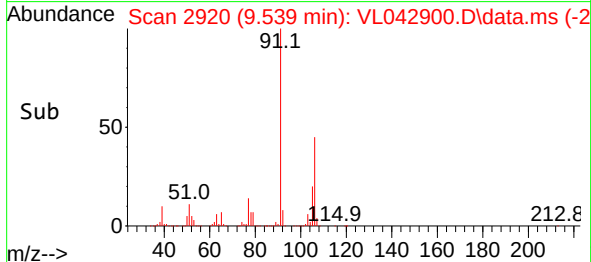
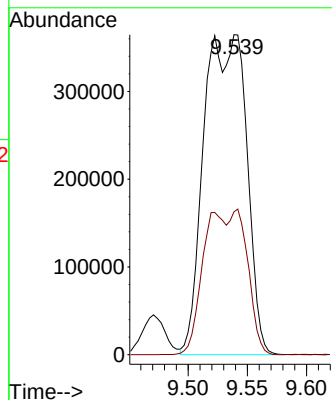
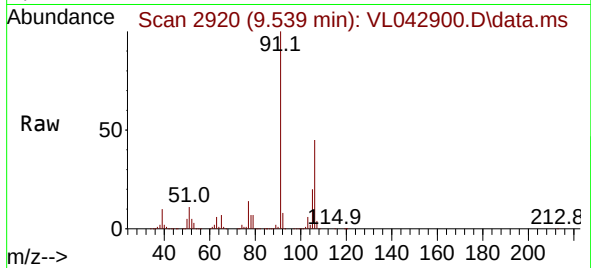
#59
m/p-Xylene
Concen: 23.388 ppbv m
RT: 9.539 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 91478
Ion Ratio Lower Upper
91 100
106 45.8 0.0 0.0

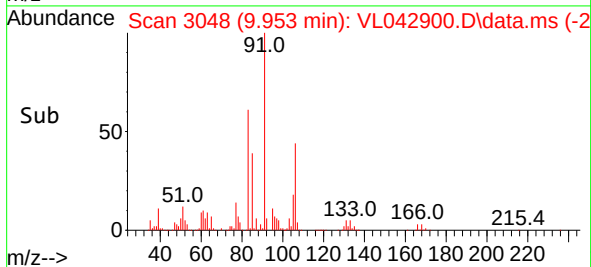
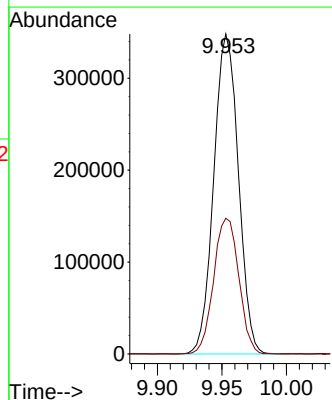
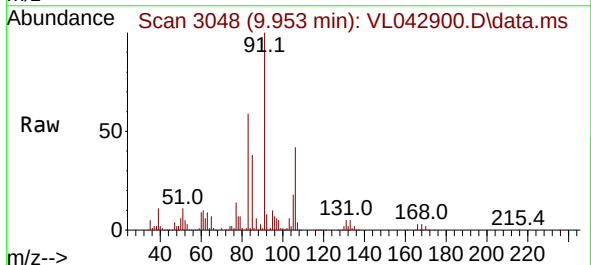
Manual Integrations
APPROVED

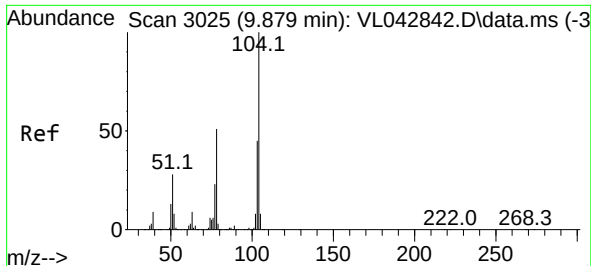
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

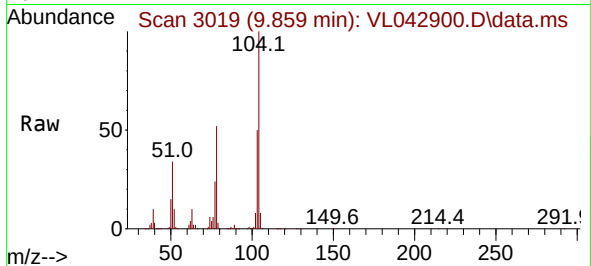
Tgt Ion: 91 Resp: 460968
Ion Ratio Lower Upper
91 100
106 43.4 21.8 65.4





#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

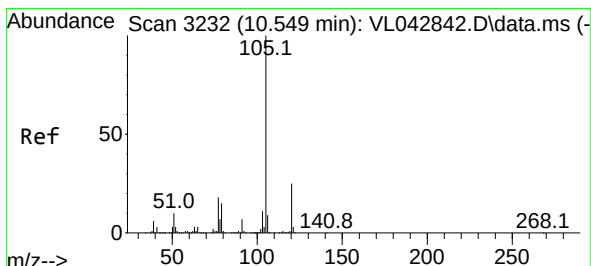
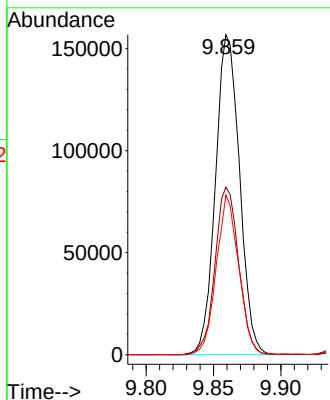
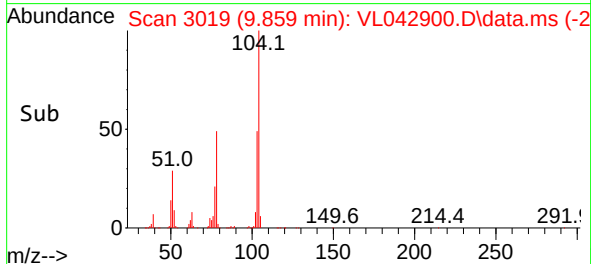
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



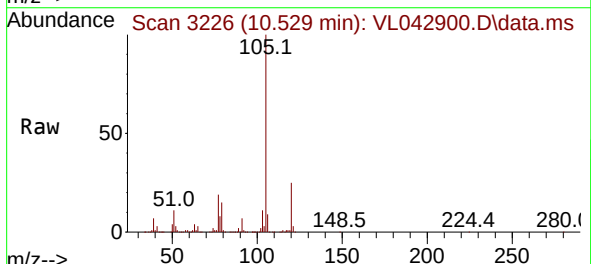
Tgt Ion:104 Resp: 19500
Ion Ratio Lower Upper
104 100
78 51.3 40.6 61.0
103 46.6 37.7 56.5

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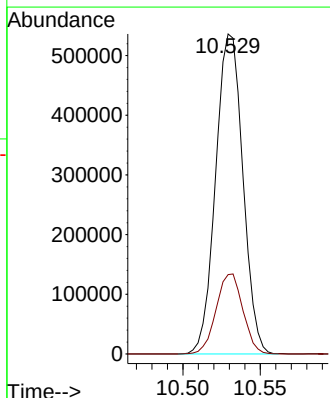
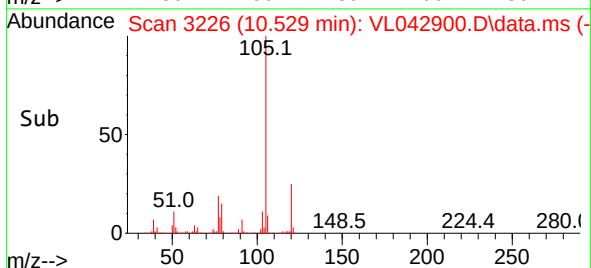
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

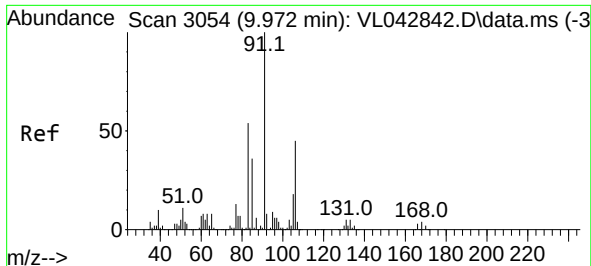


#62
Isopropylbenzene
Concen: 11.394 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



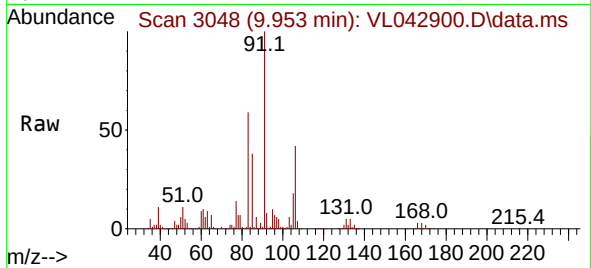
Tgt Ion:105 Resp: 655164
Ion Ratio Lower Upper
105 100
120 24.5 20.6 30.8





#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

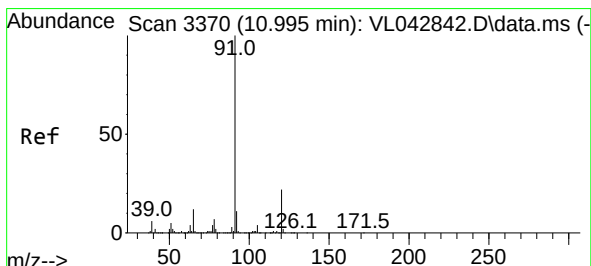
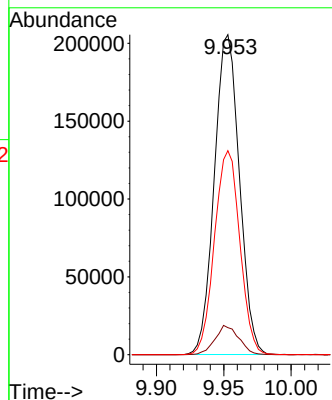
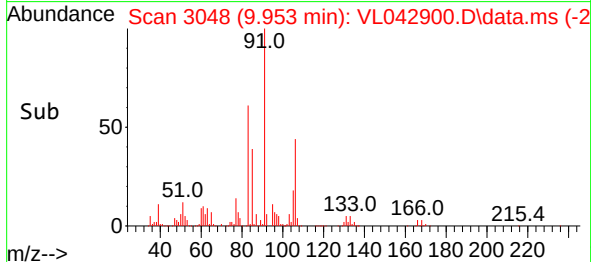
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

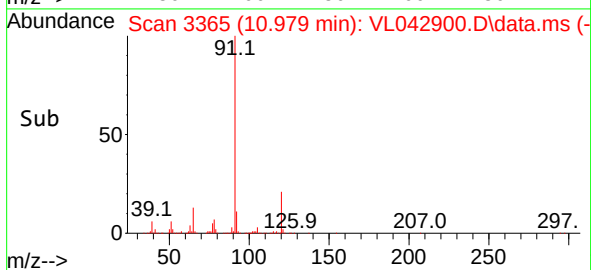
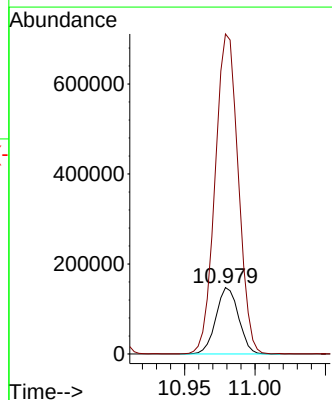
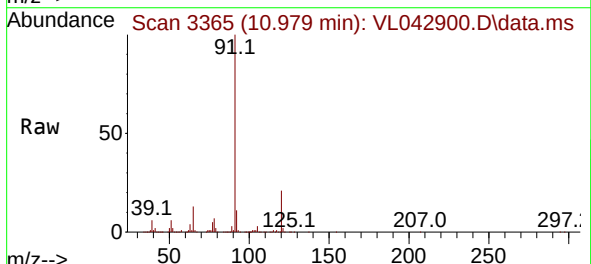
Manual Integrations
APPROVED

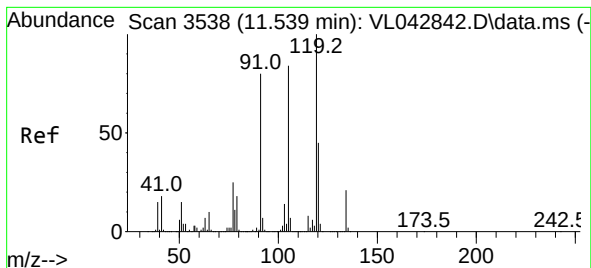
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

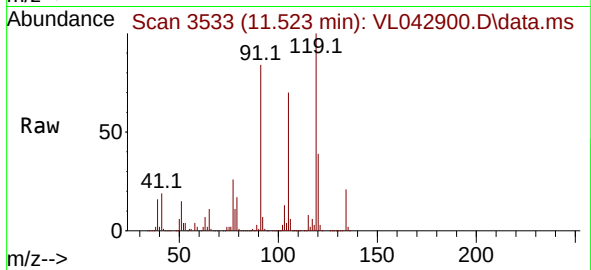
Tgt Ion:120 Resp: 164610
Ion Ratio Lower Upper
120 100
91 495.9 375.8 563.6





#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

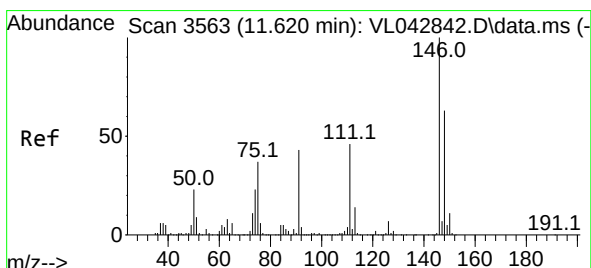
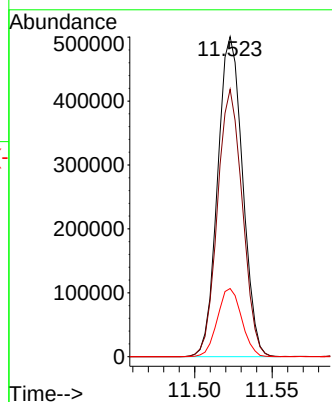
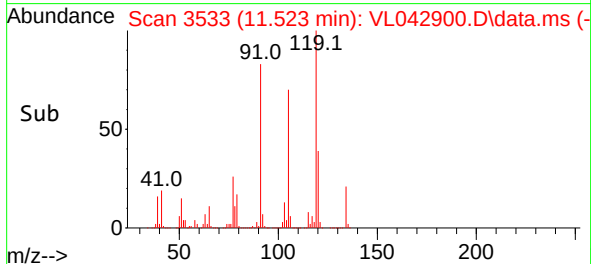
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



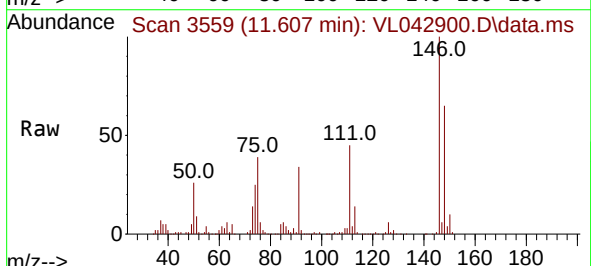
Tgt Ion:119 Resp: 561409
Ion Ratio Lower Upper
119 100
91 83.4 63.9 95.9
134 20.6 17.0 25.4

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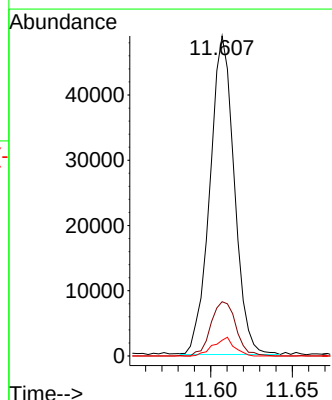
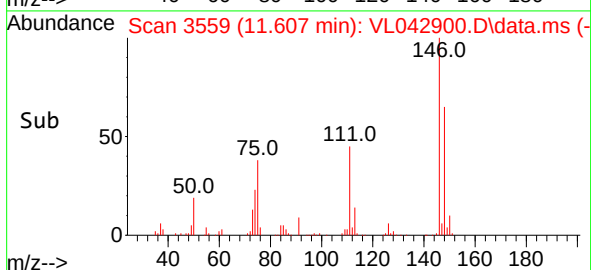
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

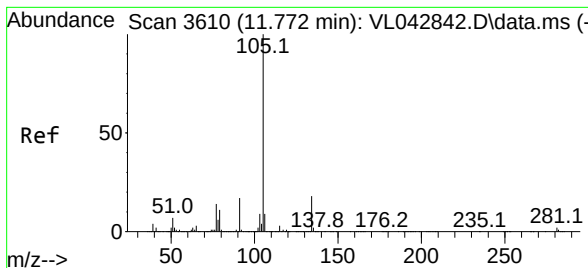


#66
Benzyl Chloride
Concen: 7.895 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



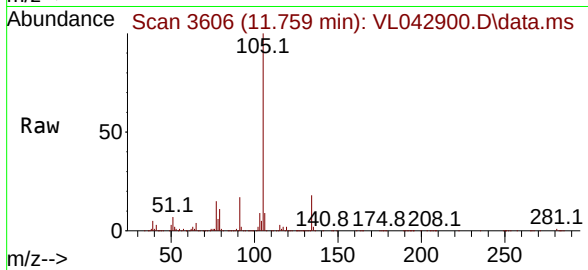
Tgt Ion: 91 Resp: 50803
Ion Ratio Lower Upper
91 100
126 17.5 14.2 21.4
128 5.0 5.0 7.6#





#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

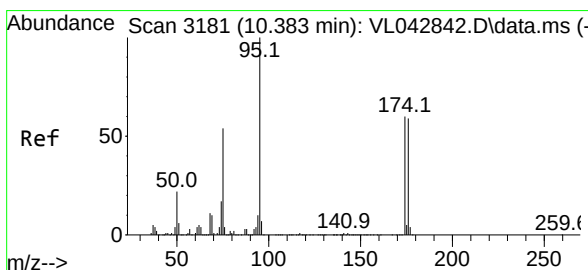
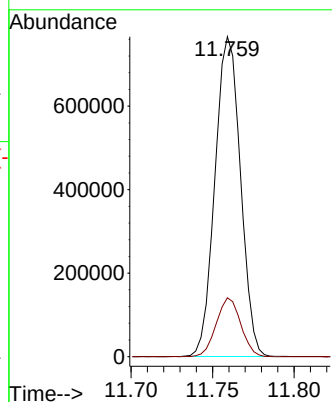
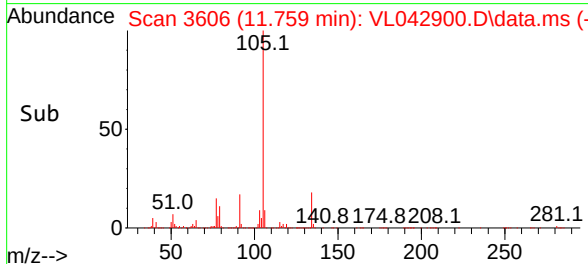
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010



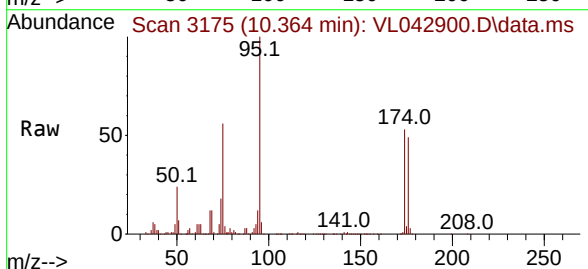
Tgt Ion:105 Resp: 833114
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.9 22.3

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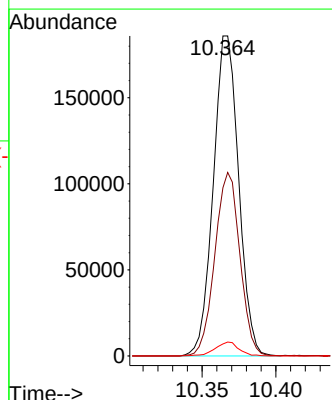
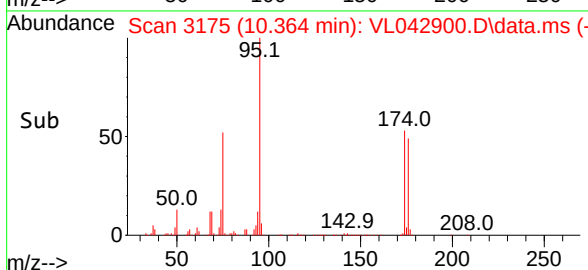
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

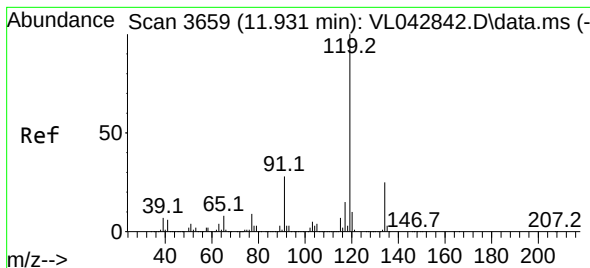


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.483 ppbv
 RT: 10.364 min Scan# 3175
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05



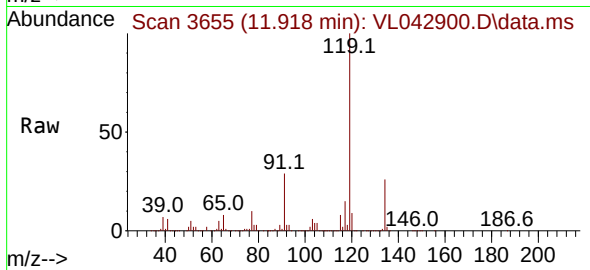
Tgt Ion: 95 Resp: 222314
 Ion Ratio Lower Upper
 95 100
 174 56.8 48.4 72.6
 175 4.1 3.8 5.8





#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

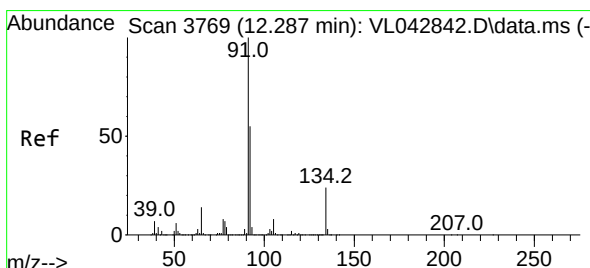
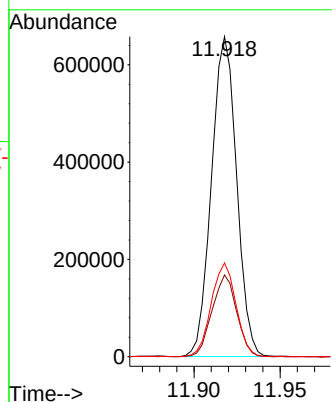
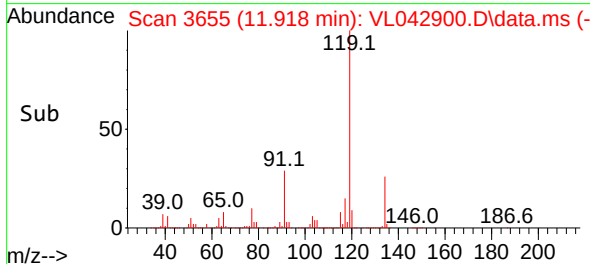
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



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

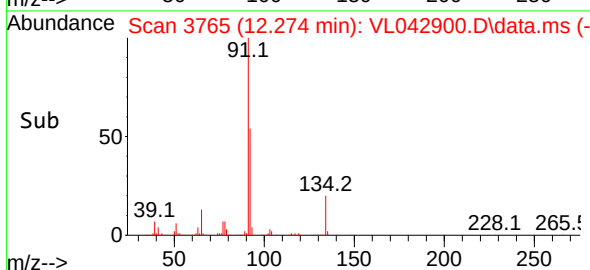
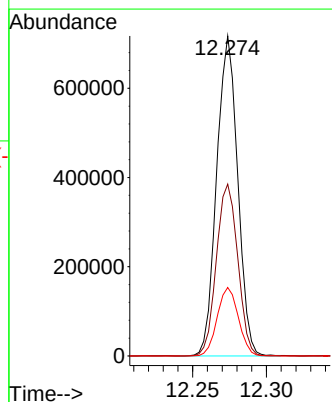
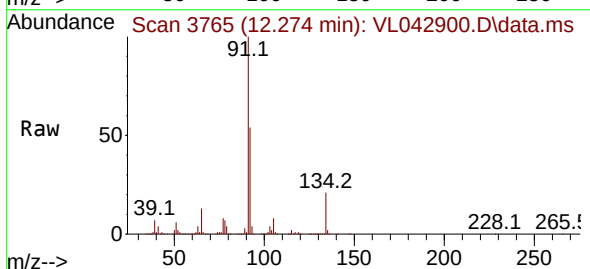
Manual Integrations
 APPROVED

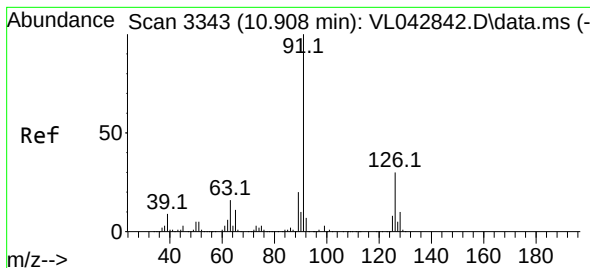
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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





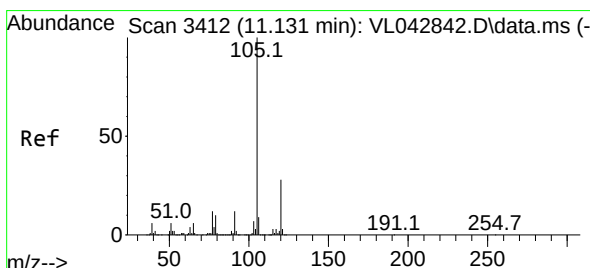
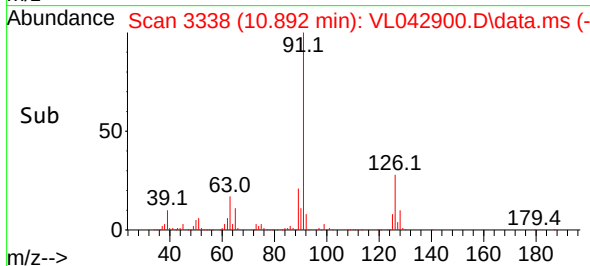
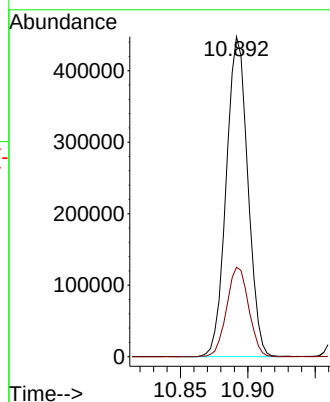
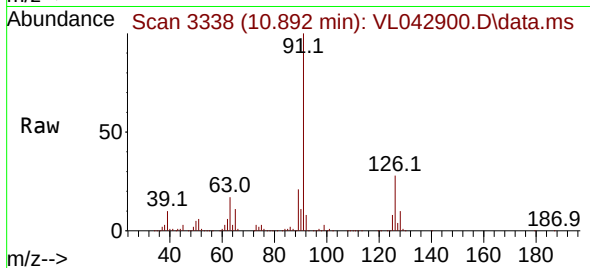
#71
2-Chlorotoluene
Concen: 11.156 ppbv
RT: 10.892 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 498072
Ion Ratio Lower Upper
91 100
126 28.5 12.0 47.8

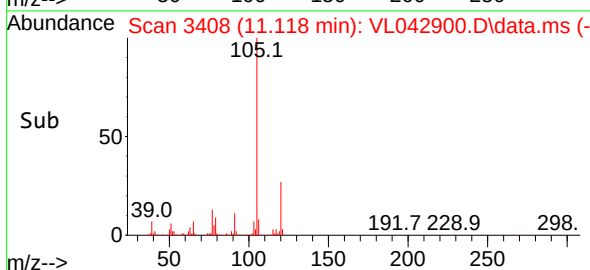
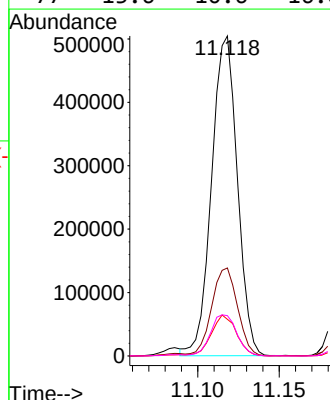
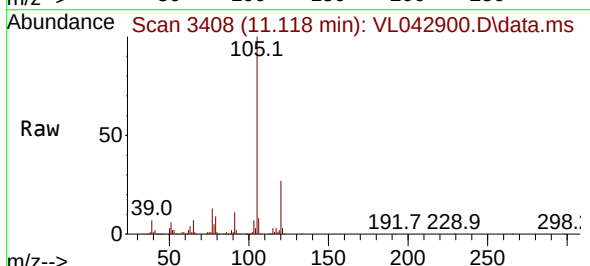
Manual Integrations
APPROVED

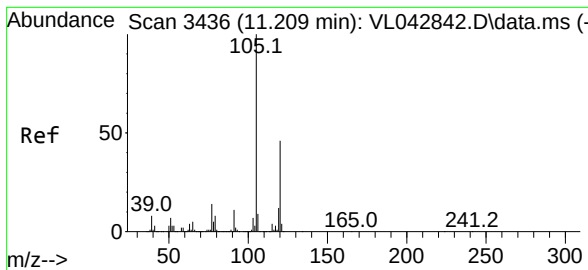
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

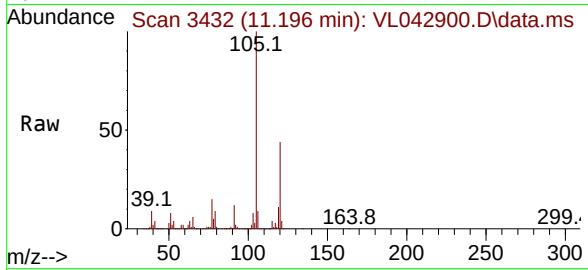
Tgt Ion:105 Resp: 554411
Ion Ratio Lower Upper
105 100
120 28.3 23.4 35.2
91 12.9 9.8 14.6
77 13.6 10.6 16.0





#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

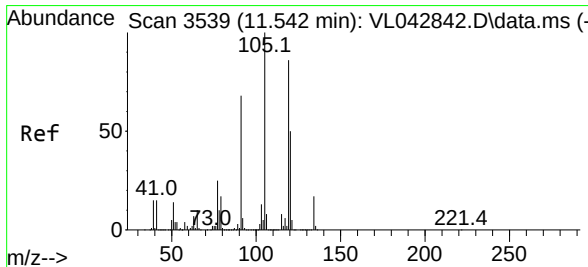
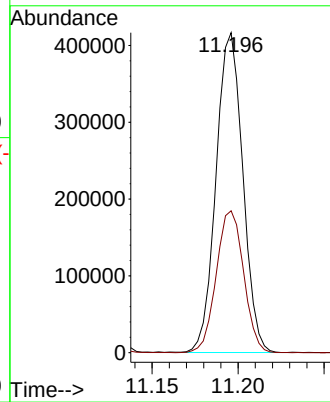
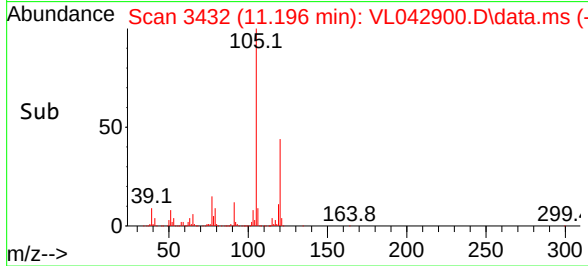
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:105 Resp: 450409
 Ion Ratio Lower Upper
 105 100
 120 44.3 36.6 54.8

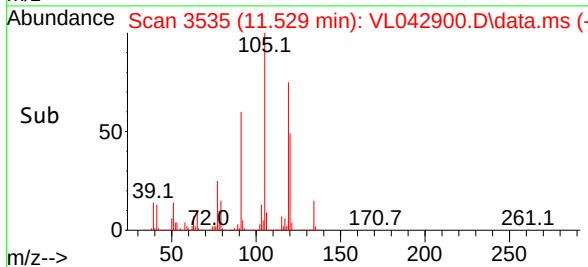
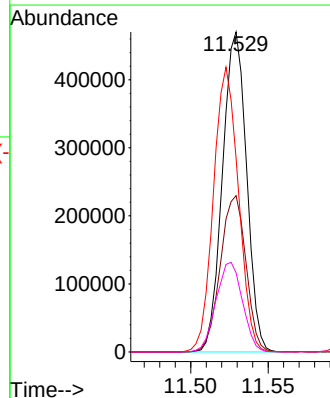
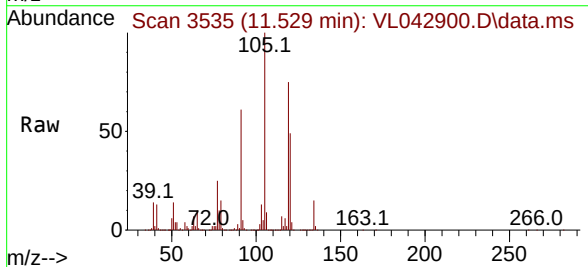
Manual Integrations
 APPROVED

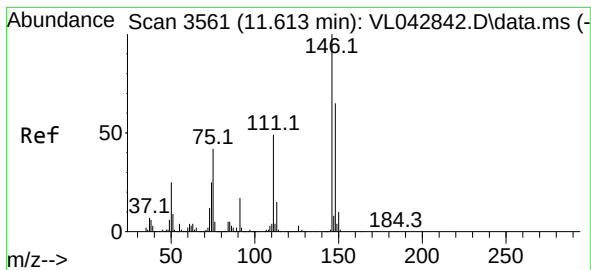
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

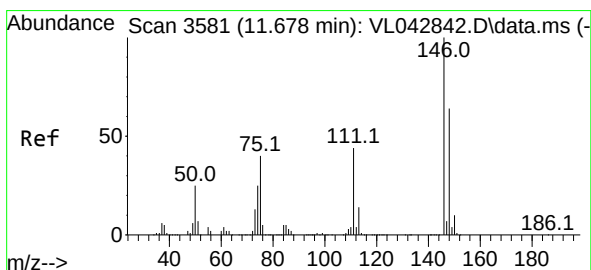
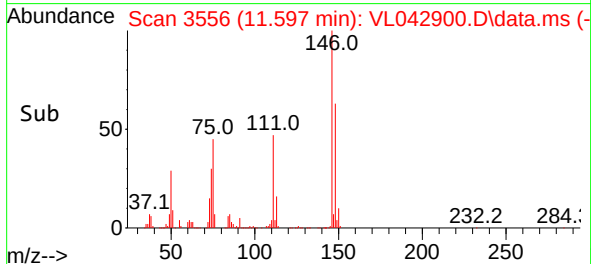
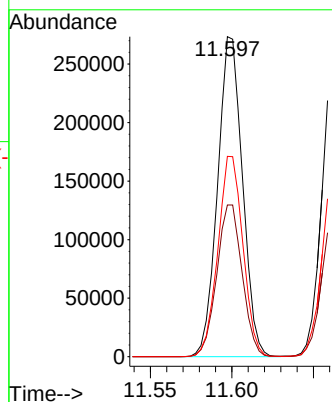
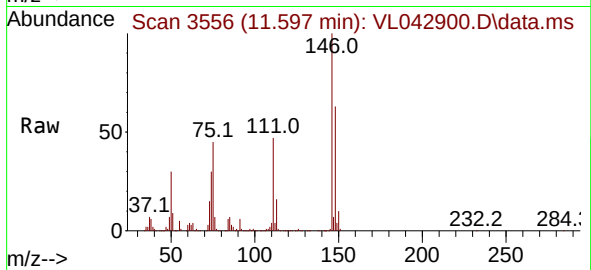
148 63.1 31.4 94.0

Manual Integrations

APPROVED

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

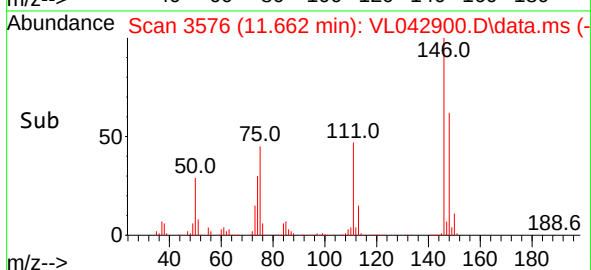
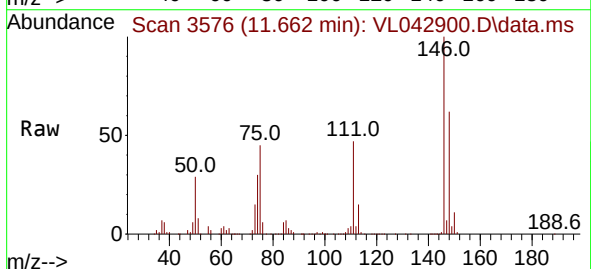
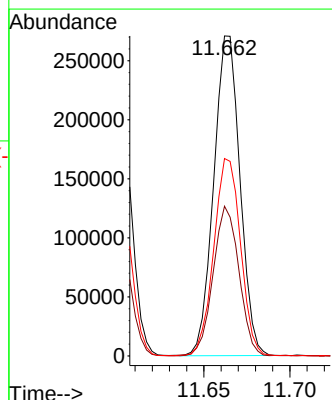
Tgt Ion:146 Resp: 287352

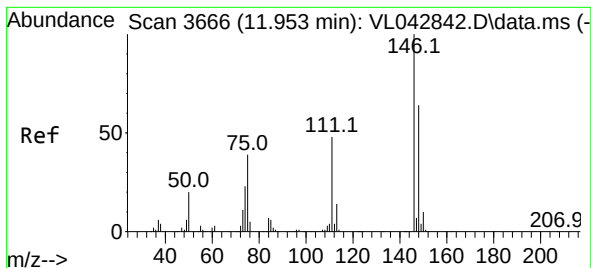
Ion Ratio Lower Upper

146 100

111 46.3 22.7 68.1

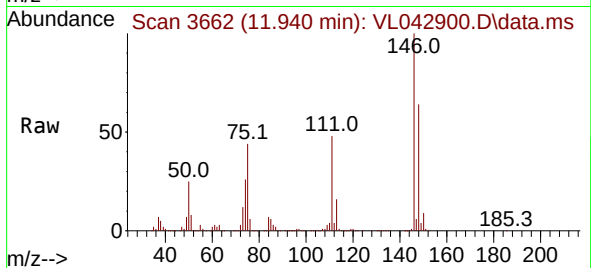
148 63.2 31.8 95.3





#77
1,2-Dichlorobenzene
Concen: 11.351 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

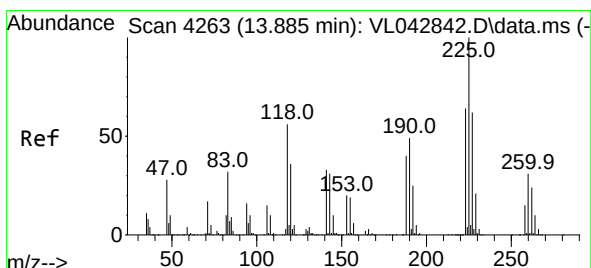
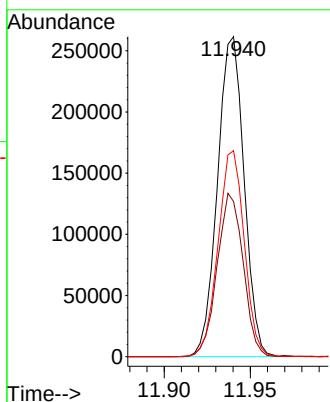
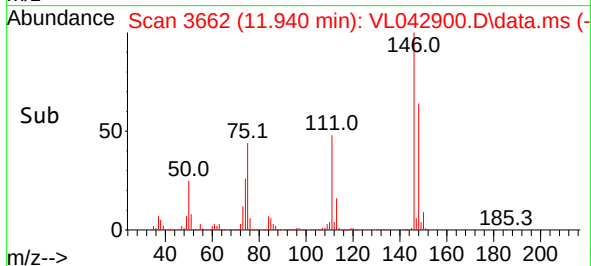
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:146 Resp: 28130
Ion Ratio Lower Upper
146 100
111 50.0 24.6 74.0
148 63.5 32.0 96.0

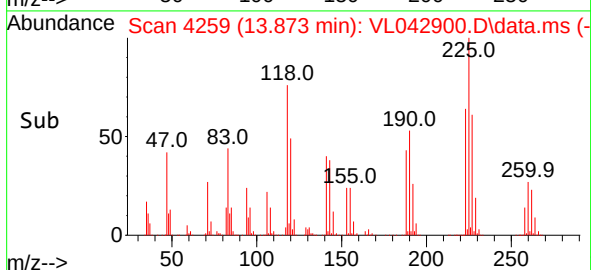
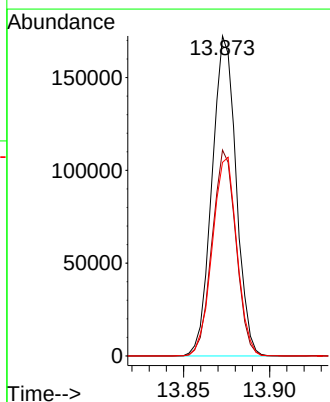
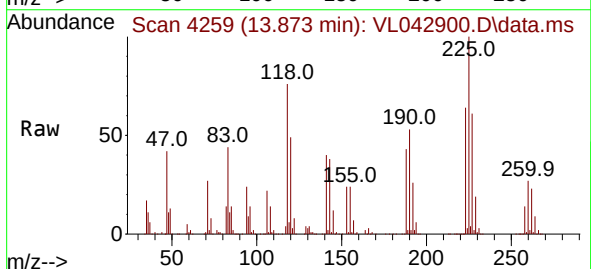
Manual Integrations
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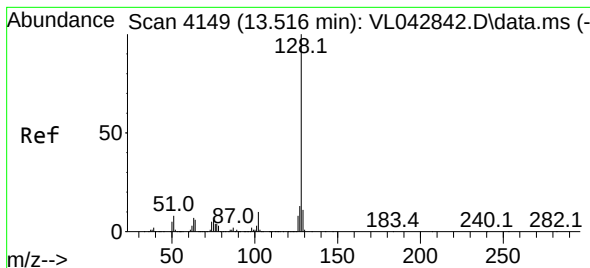
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

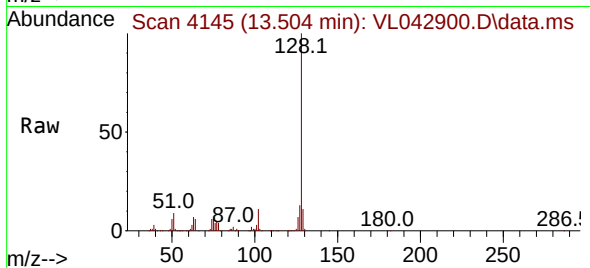
Tgt Ion:225 Resp: 167893
Ion Ratio Lower Upper
225 100
223 63.8 51.4 77.2
227 63.3 51.9 77.9





#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

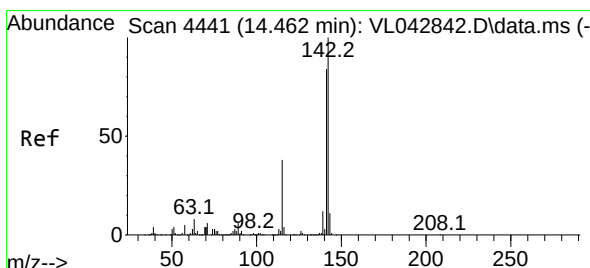
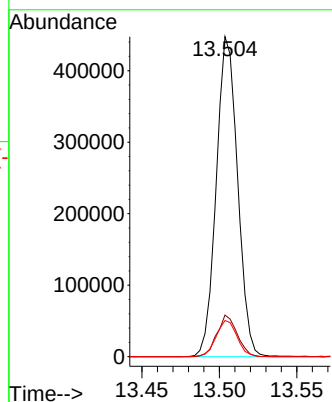
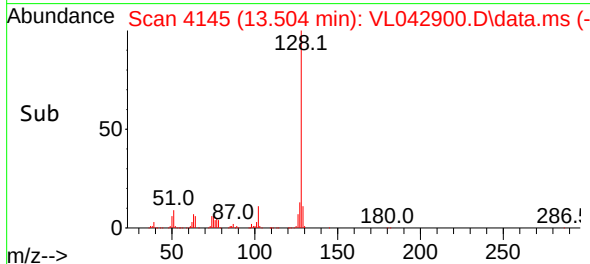
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



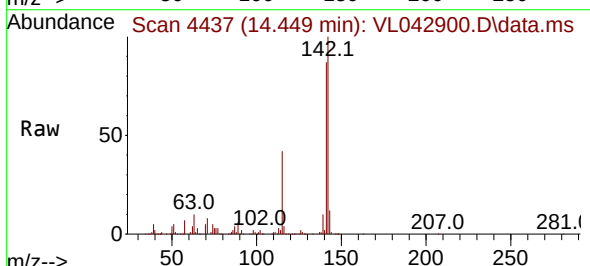
Tgt Ion:128 Resp: 42835
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 11.3 8.9 13.3

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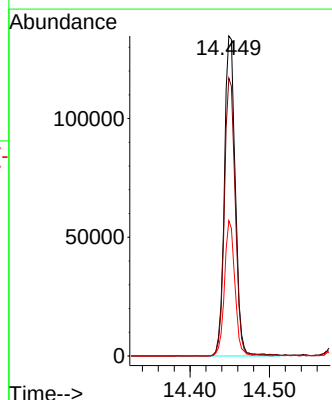
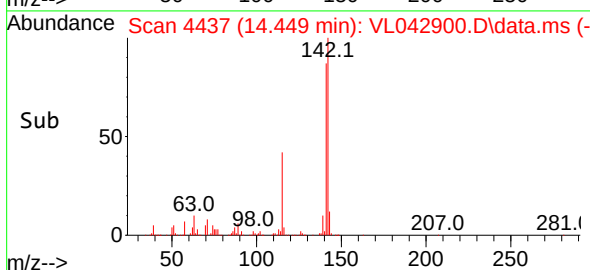
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

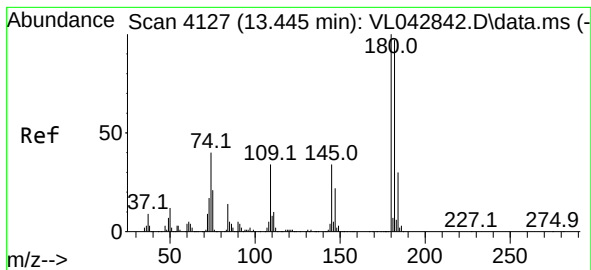


#80
Naphthalene,2-methyl-
Concen: 8.470 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05



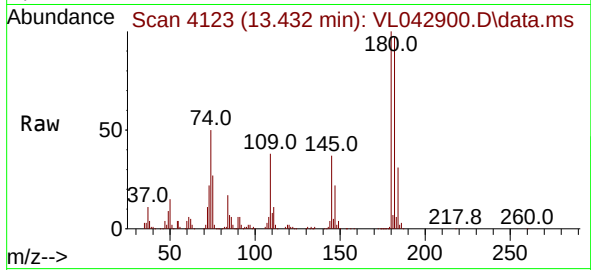
Tgt Ion:142 Resp: 127751
Ion Ratio Lower Upper
142 100
141 87.4 67.0 100.6
115 40.4 30.9 46.3





#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

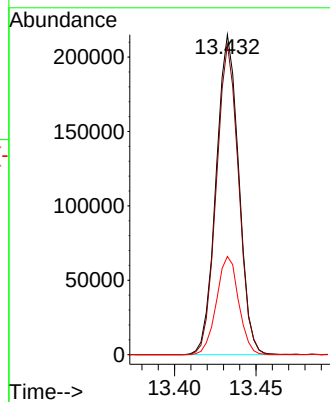
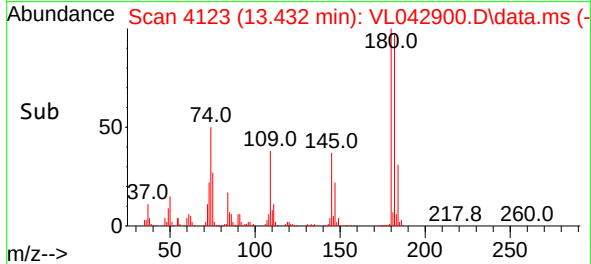
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



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
 APPROVED

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 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

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



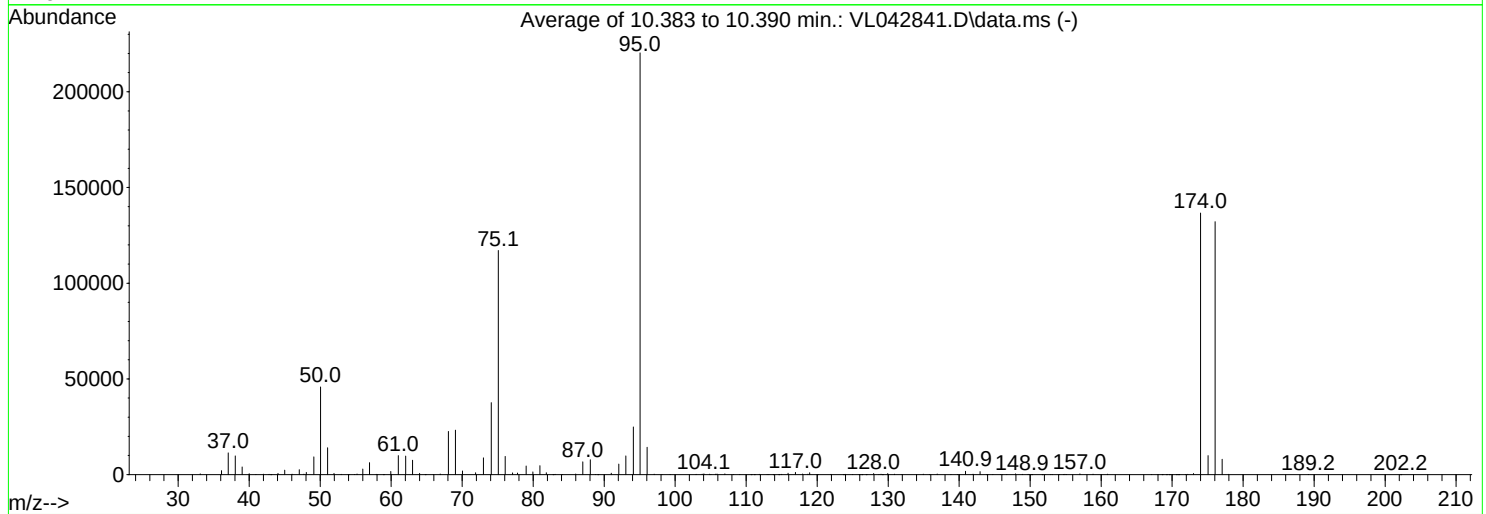
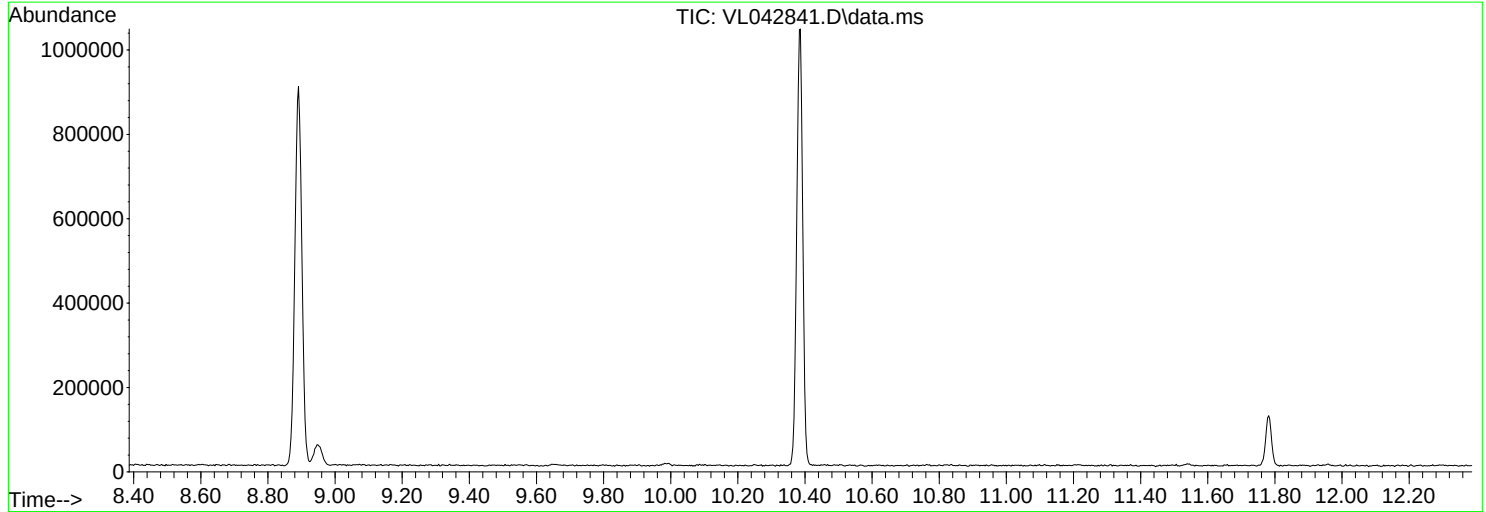
QC SAMPLE DATA

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

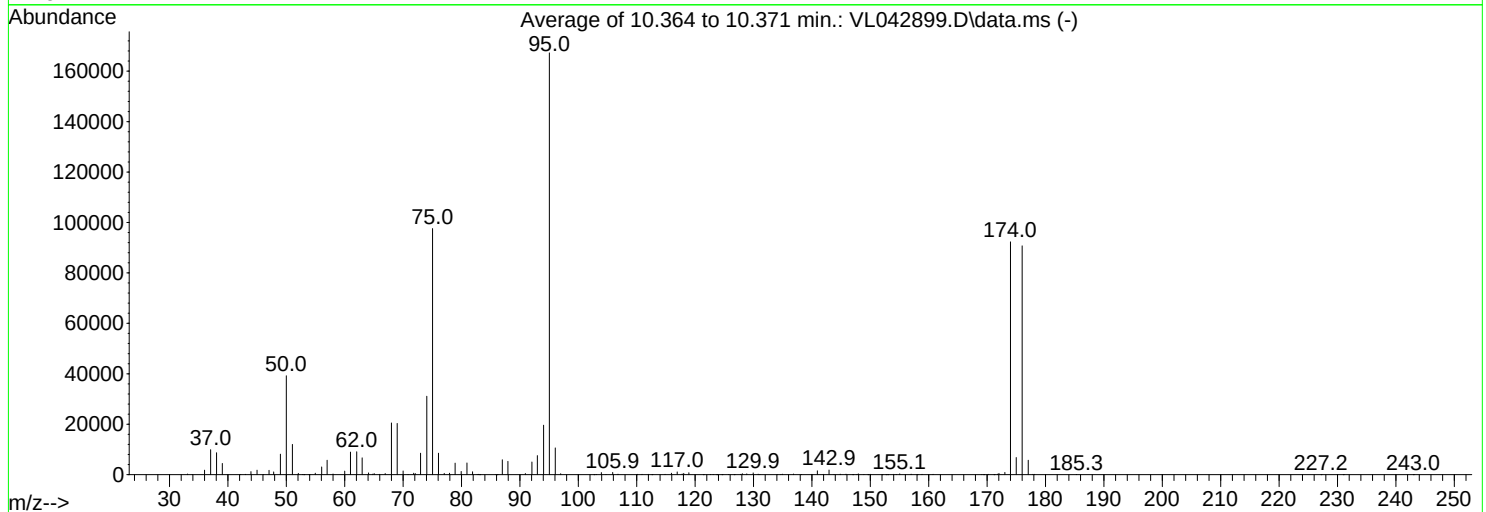
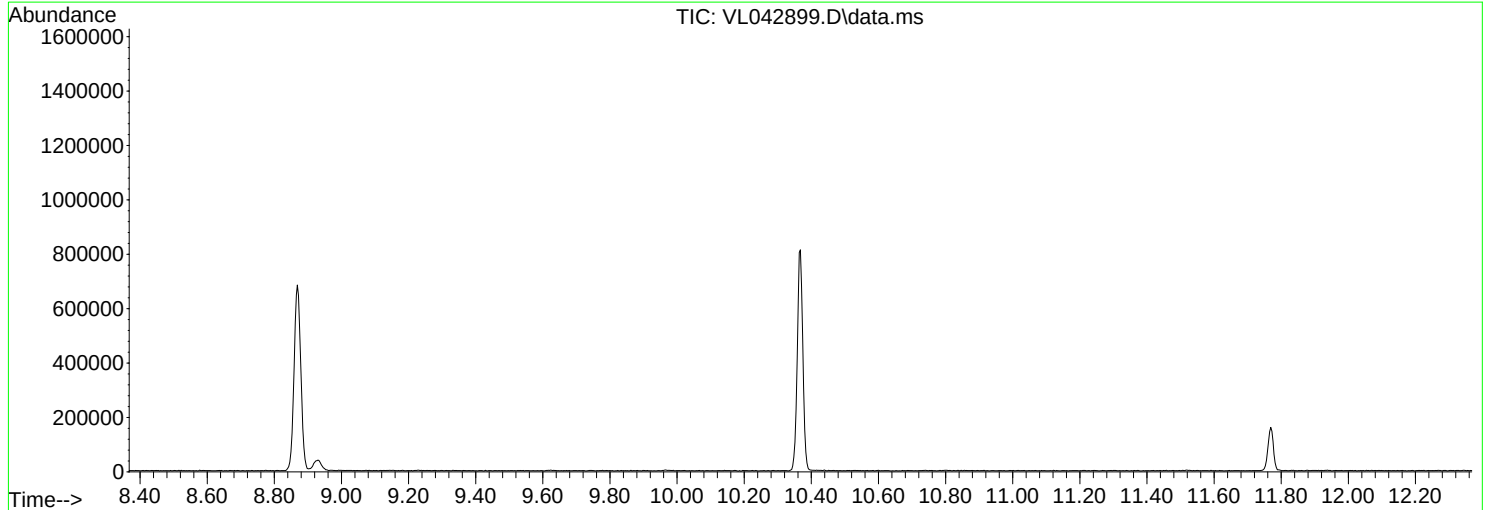
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	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.:	Q3037
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%

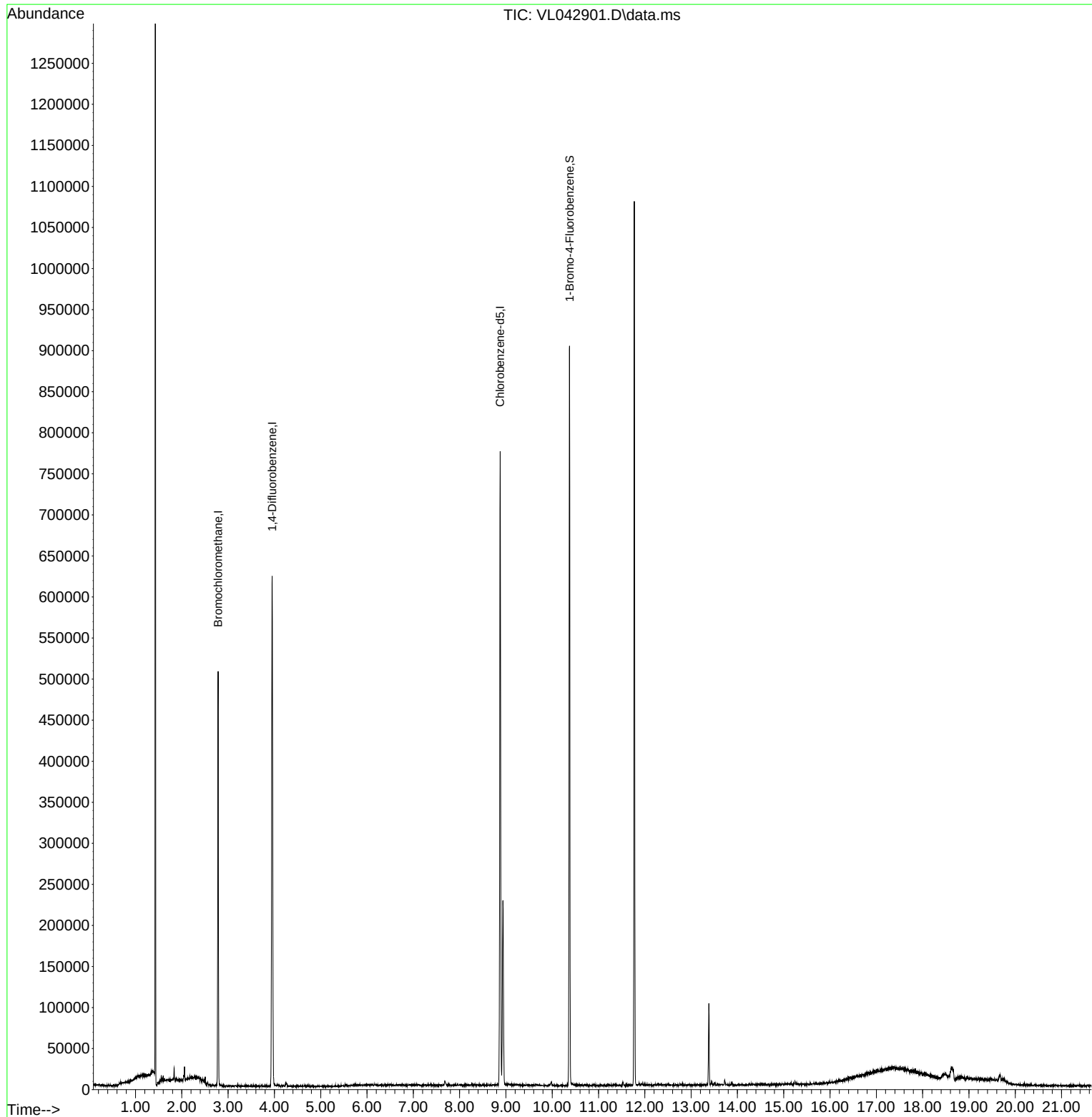
Target Compounds	Qvalue

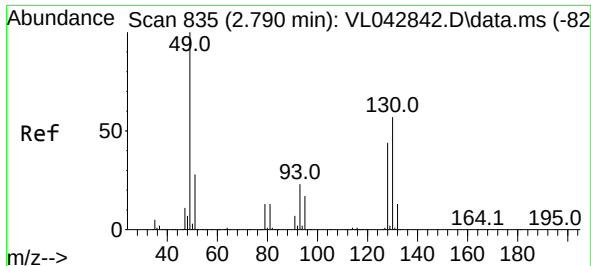
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

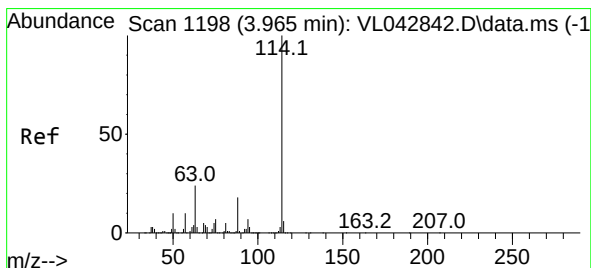
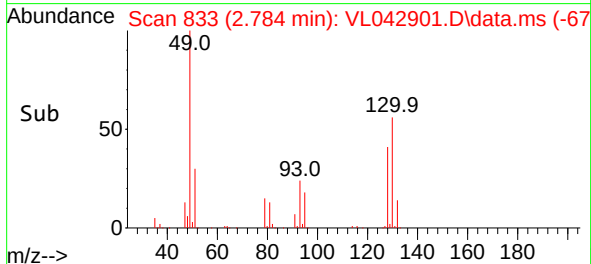
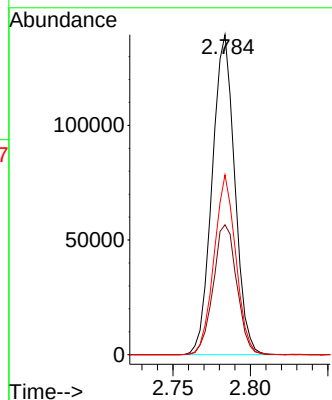
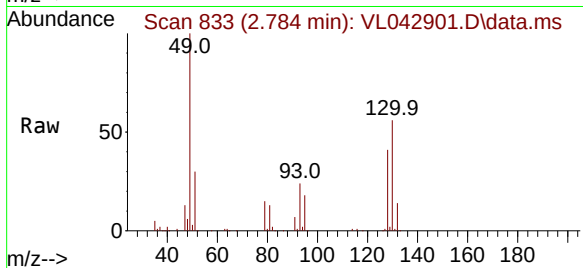




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042901.D
 Acq: 08 Sep 2025 11:55

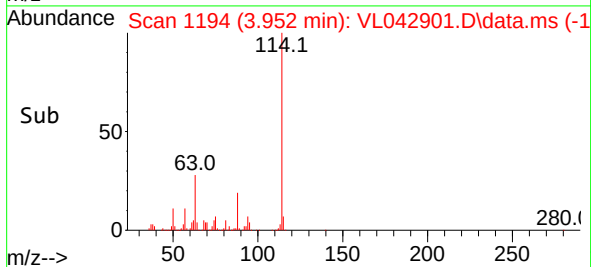
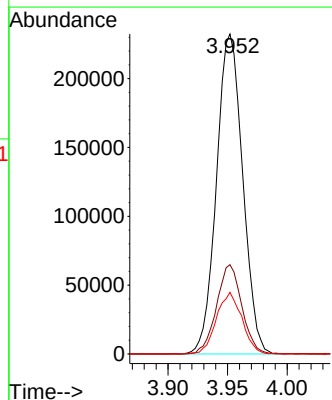
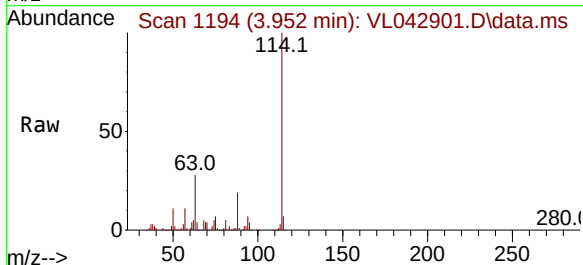
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABL01

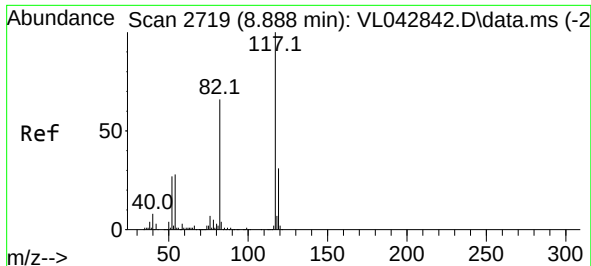
Tgt Ion: 49 Resp: 141293
 Ion Ratio Lower Upper
 49 100
 128 42.4 23.7 71.1
 130 54.2 30.6 91.6



#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

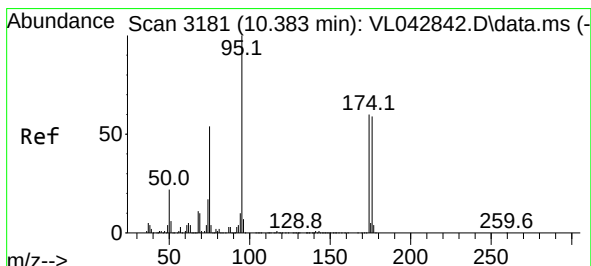
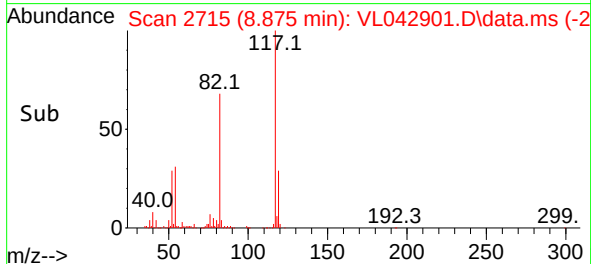
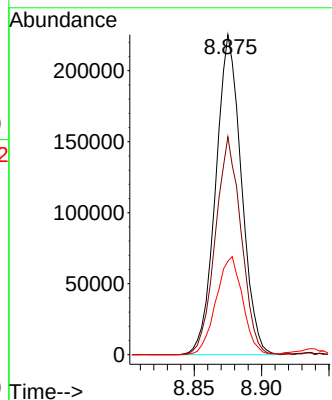
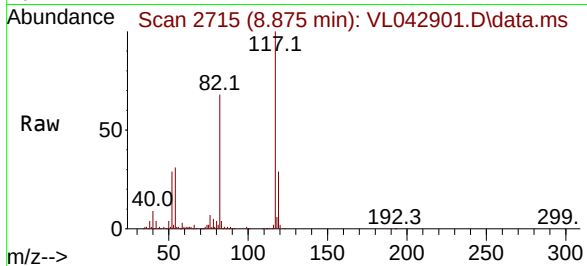




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

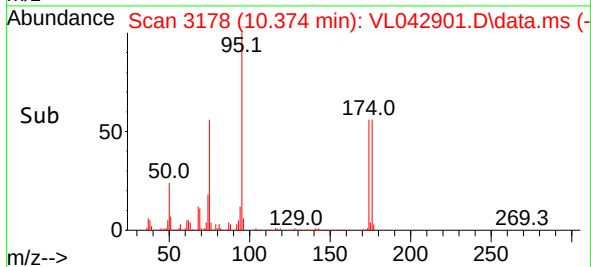
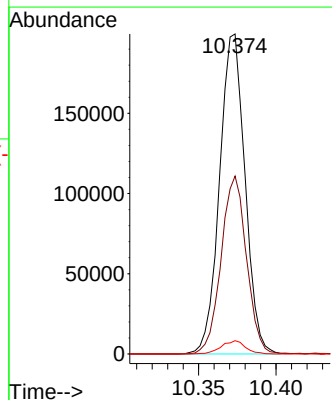
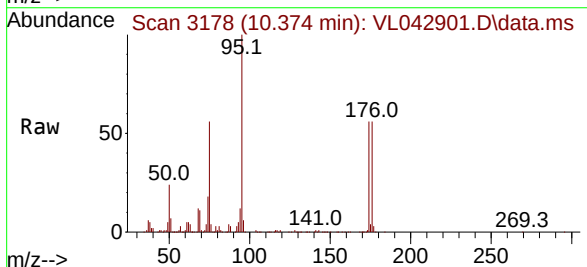
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

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.:	Q3037
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_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	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

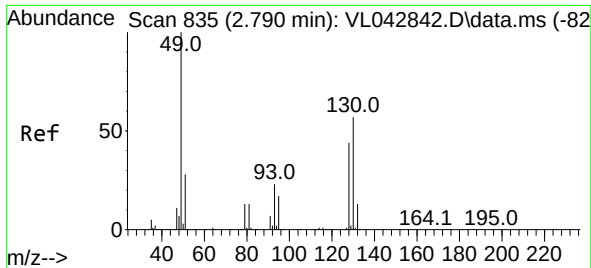
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

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



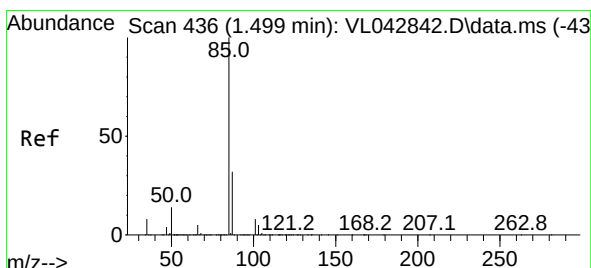
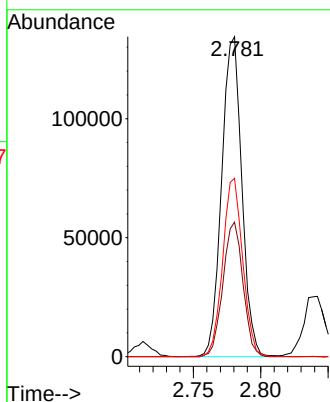
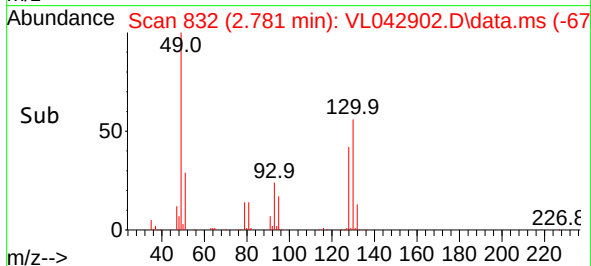
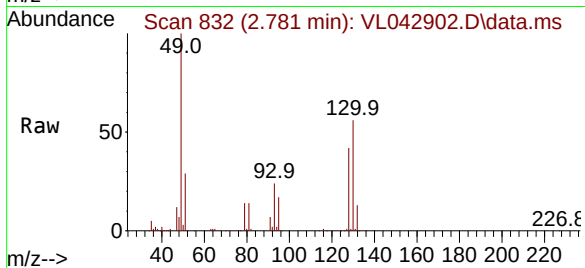
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

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

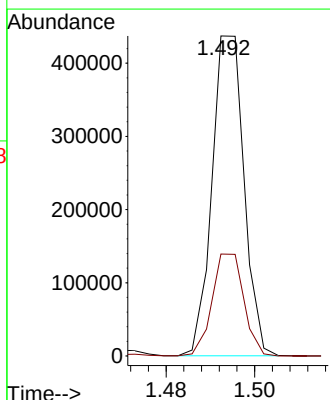
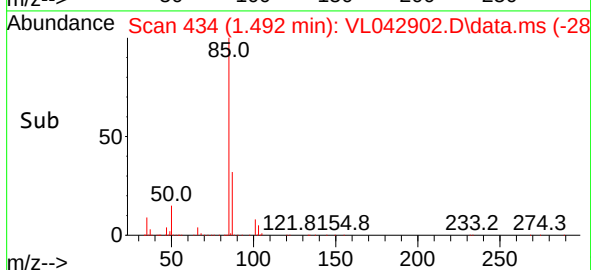
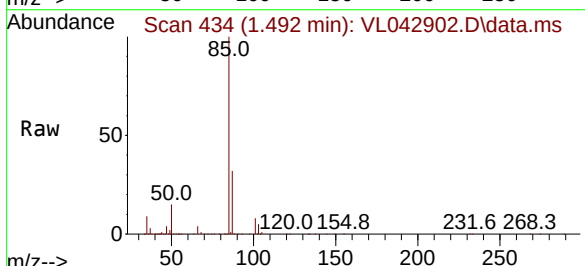
Manual Integrations
APPROVED

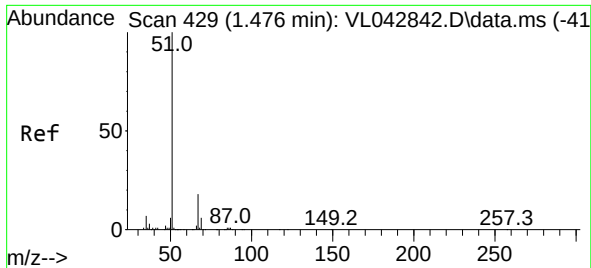
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

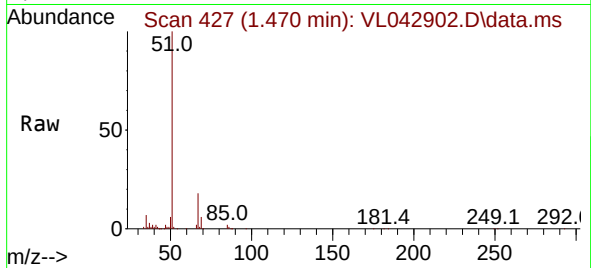
Tgt Ion: 85 Resp: 220085
Ion Ratio Lower Upper
85 100
87 31.9 25.3 37.9





#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

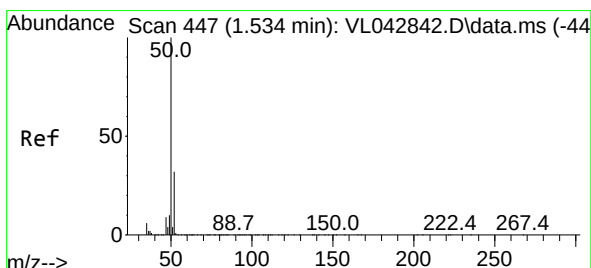
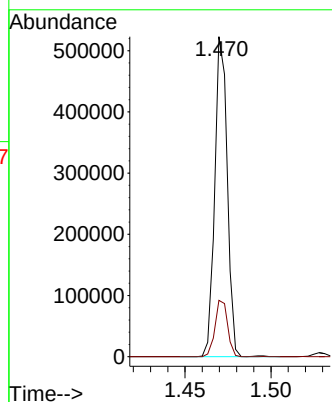
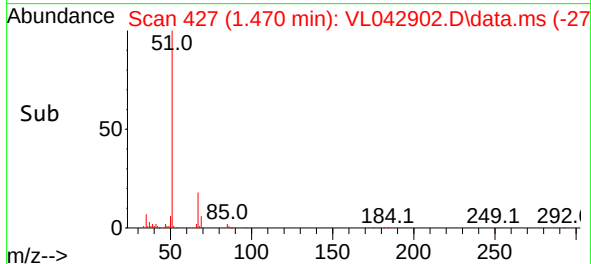
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



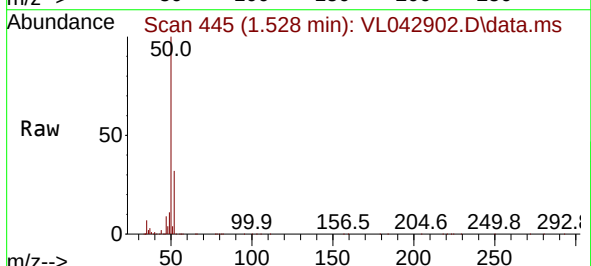
Tgt Ion: 51 Resp: 26359
Ion Ratio Lower Upper
51 100
67 17.8 14.9 22.3

Manual Integrations
APPROVED

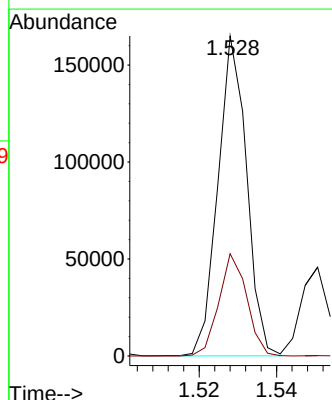
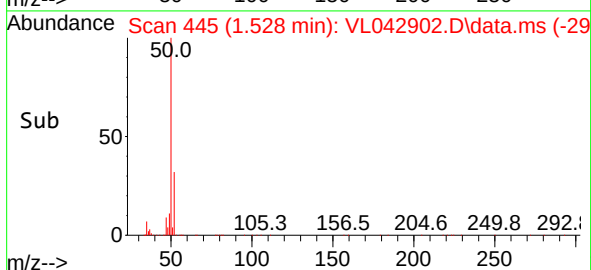
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

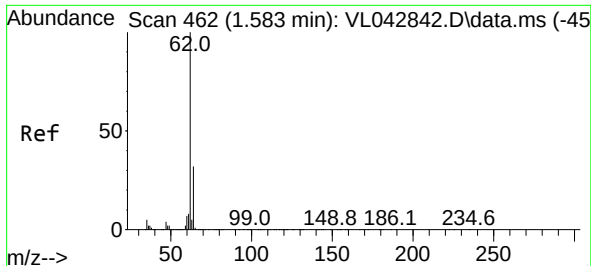


#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



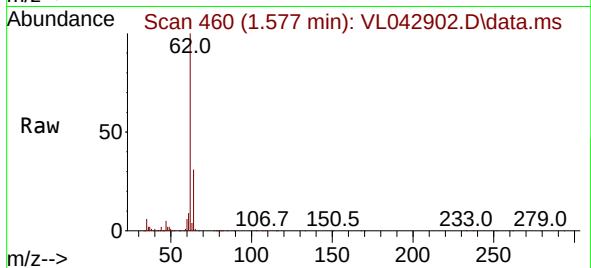
Tgt Ion: 50 Resp: 84783
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9





#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

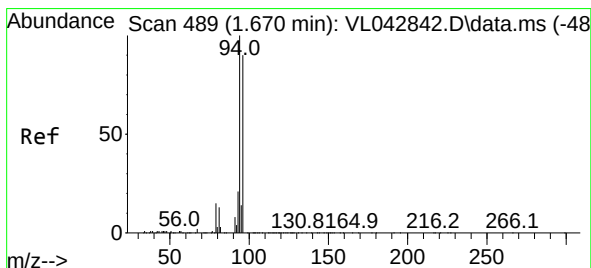
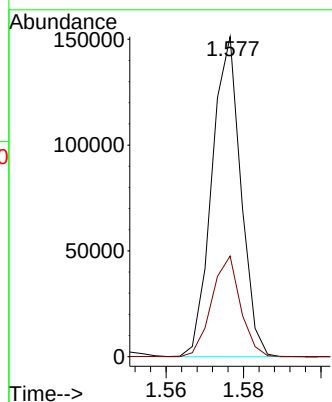
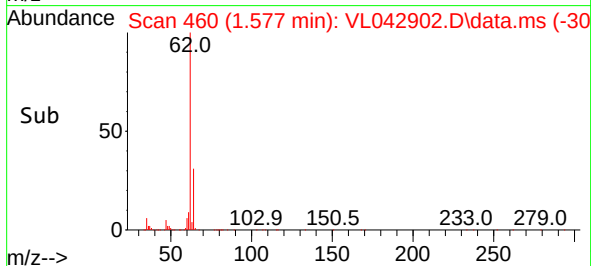
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



Tgt Ion: 62 Resp: 78549
 Ion Ratio Lower Upper
 62 100
 64 31.5 25.4 38.2

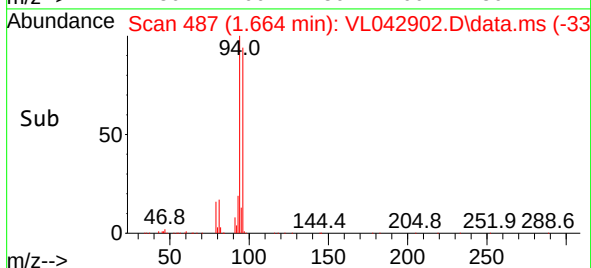
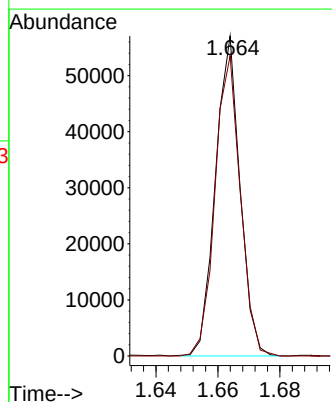
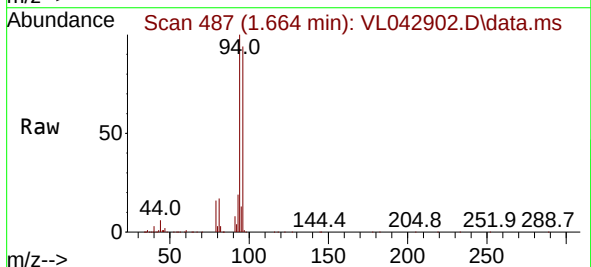
Manual Integrations
 APPROVED

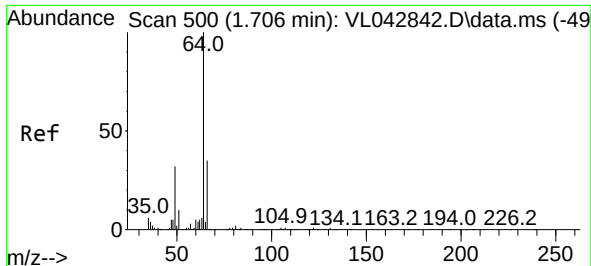
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

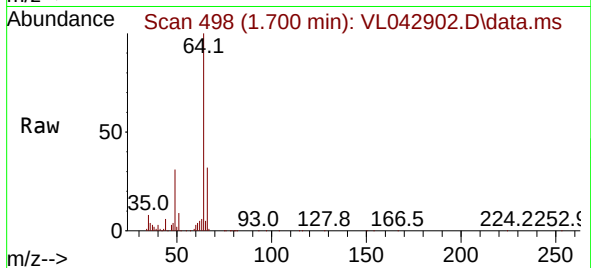
Tgt Ion: 94 Resp: 31405
 Ion Ratio Lower Upper
 94 100
 96 93.8 72.1 108.1





#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

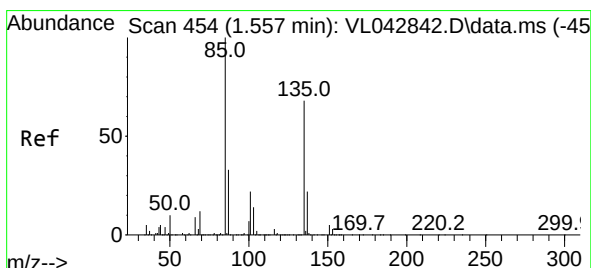
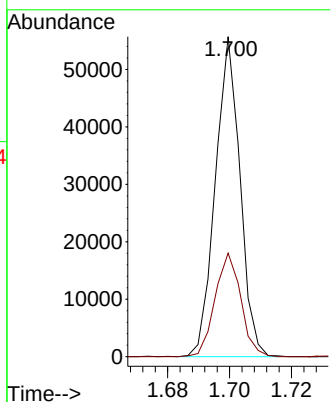
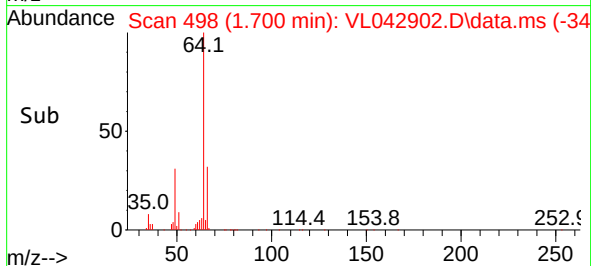
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



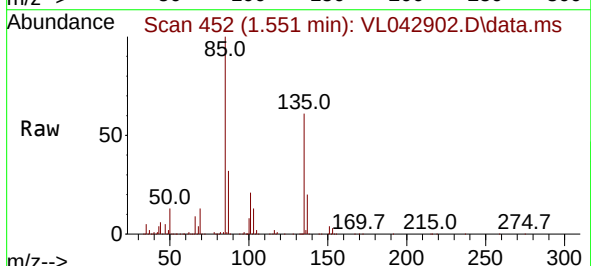
Tgt Ion: 64 Resp: 30810
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8

Manual Integrations
APPROVED

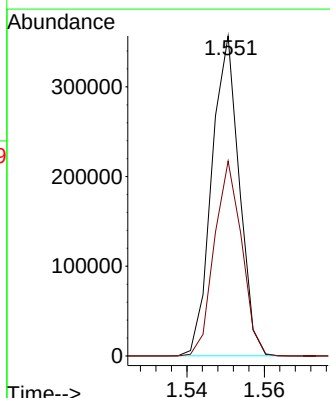
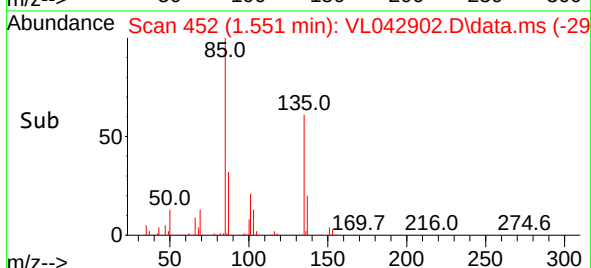
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

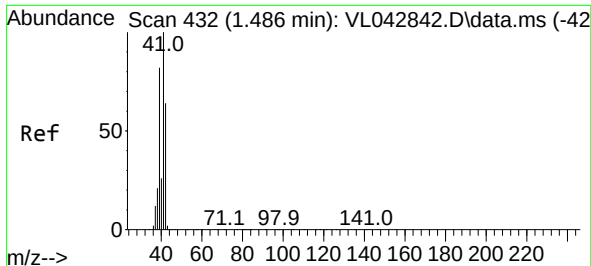


#8
Dichlorotetrafluoroethane
Concen: 10.464 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



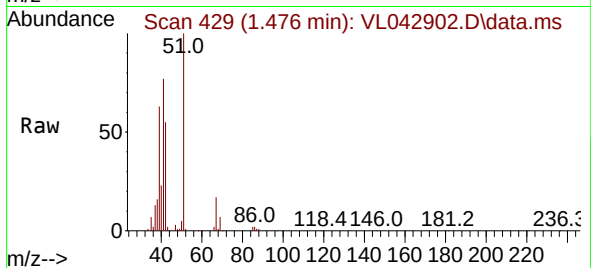
Tgt Ion: 85 Resp: 175617
Ion Ratio Lower Upper
85 100
135 60.9 51.2 76.8





#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

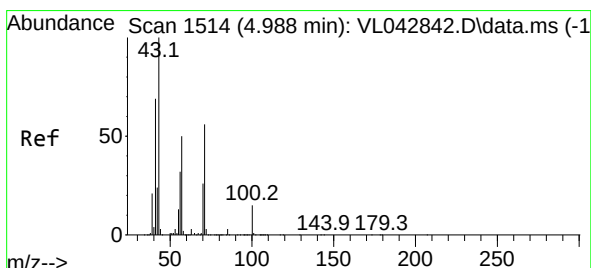
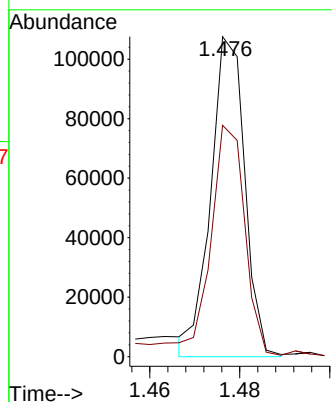
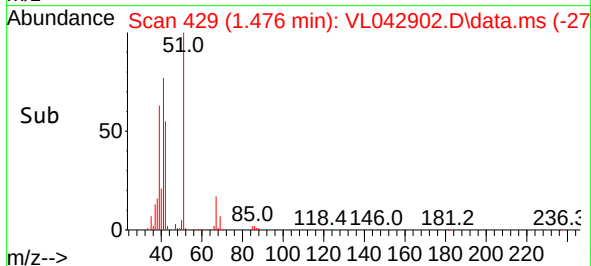
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



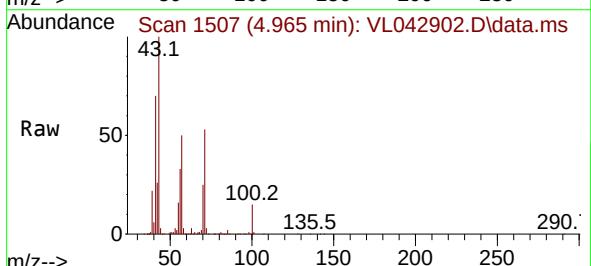
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 Ion Ratio Lower Upper
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 42 10.7 53.0 79.4

Manual Integrations
 APPROVED

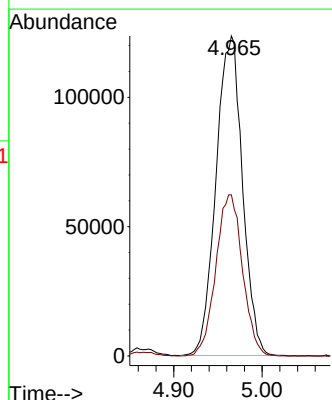
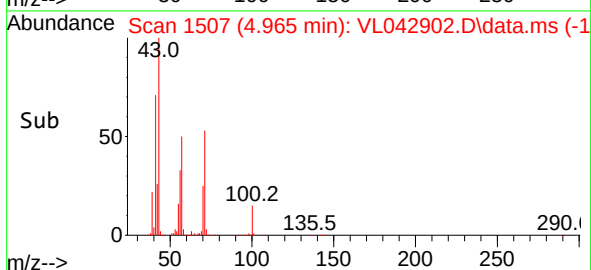
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

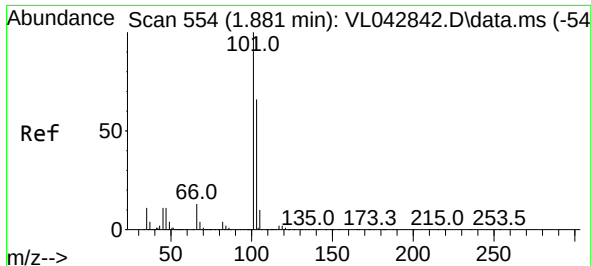


#10
 Heptane
 Concen: 9.785 ppbv
 RT: 4.965 min Scan# 1507
 Delta R.T. 0.006 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



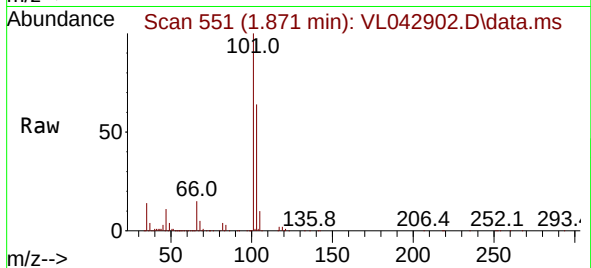
Tgt Ion: 43 Resp: 256593
 Ion Ratio Lower Upper
 43 100
 57 50.9 41.4 62.0





#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

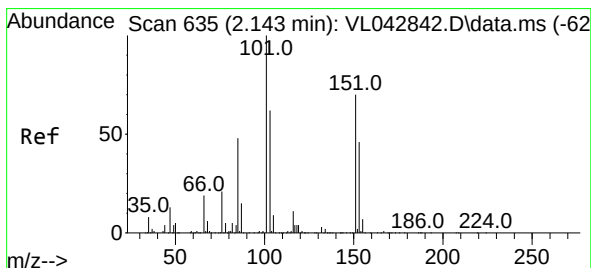
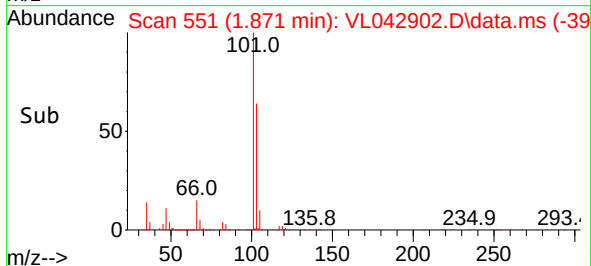
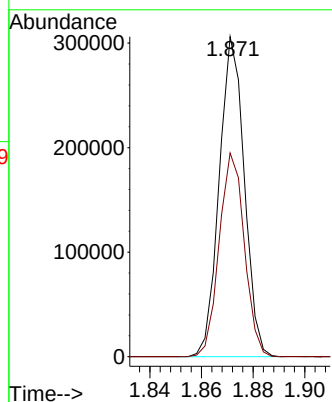
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



Tgt Ion:101 Resp: 206104
Ion Ratio Lower Upper
101 100
103 63.6 52.5 78.7

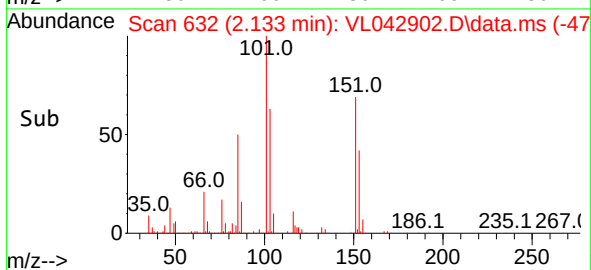
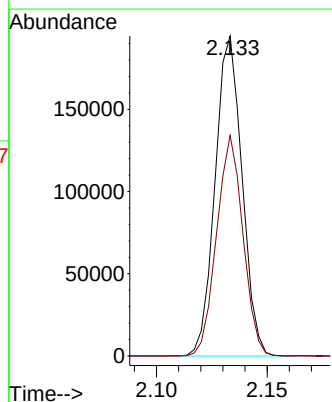
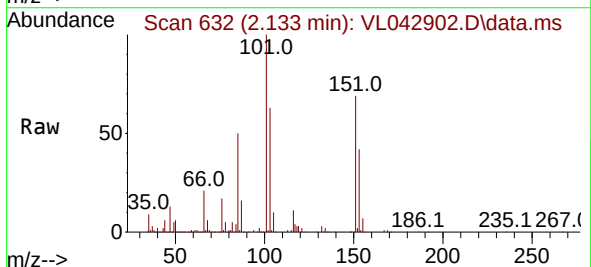
Manual Integrations
APPROVED

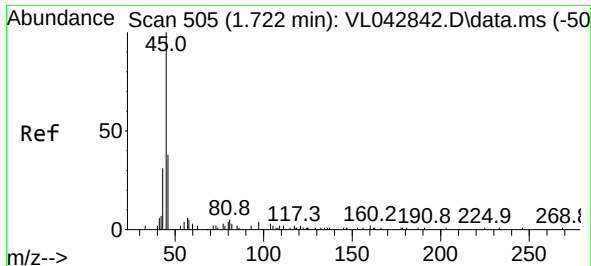
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

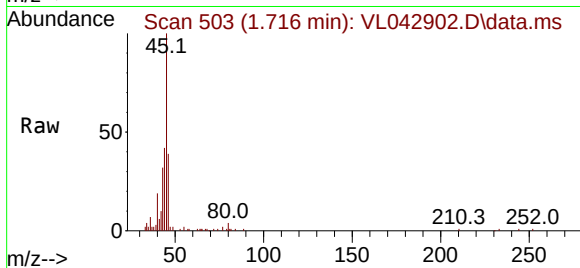
Tgt Ion:101 Resp: 164464
Ion Ratio Lower Upper
101 100
151 67.4 56.4 84.6





#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

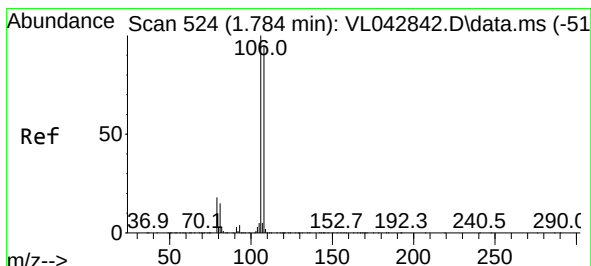
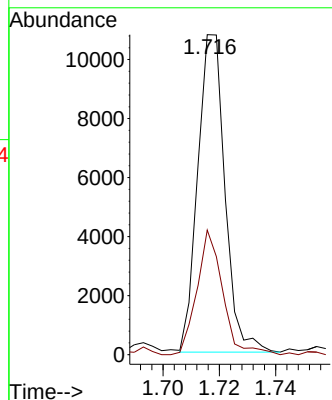
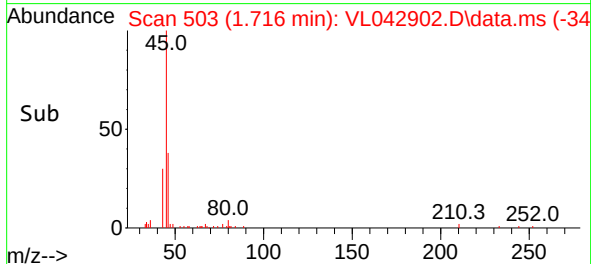
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



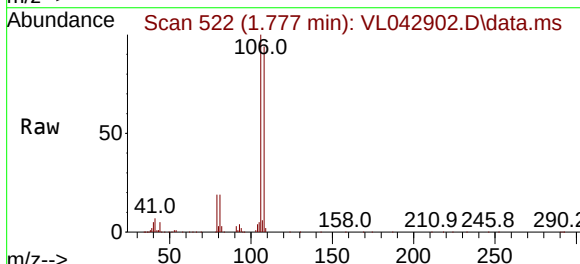
Tgt Ion: 45 Resp: 7225
Ion Ratio Lower Upper
45 100
46 38.4 17.5 69.9

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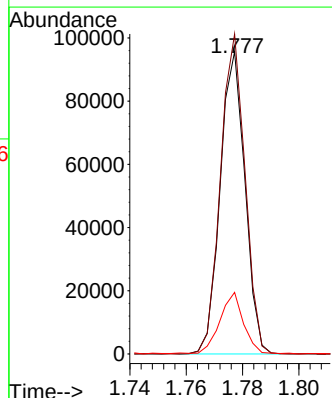
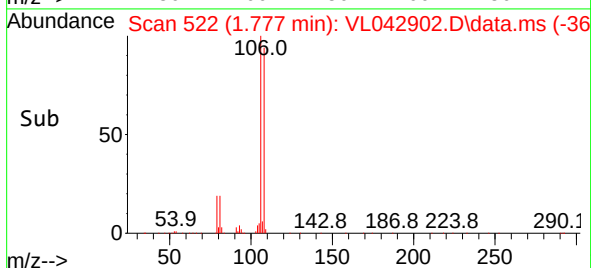
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

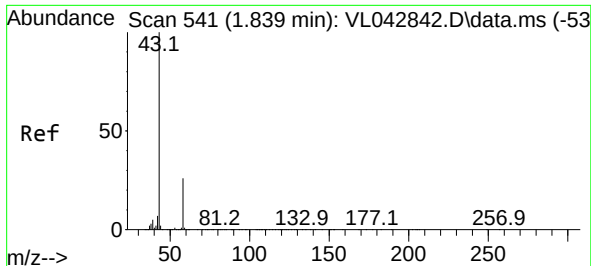


#14
Bromoethene
Concen: 10.009 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



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





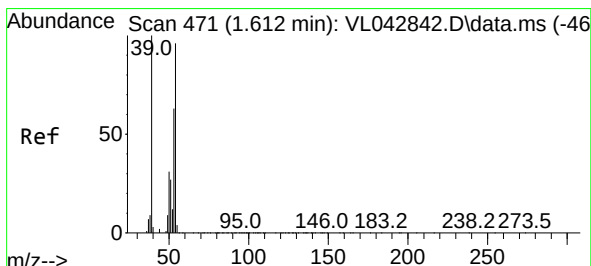
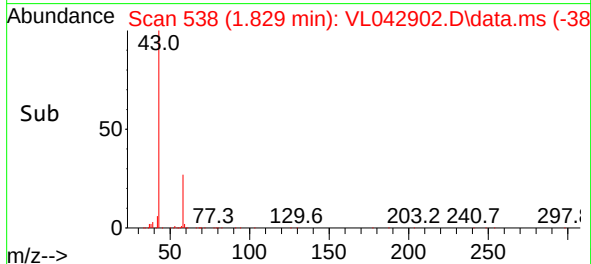
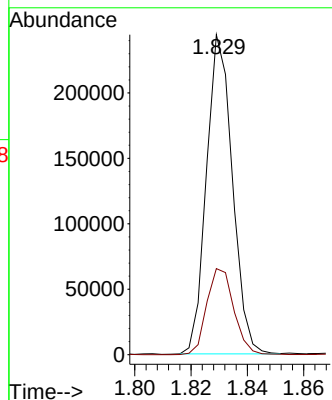
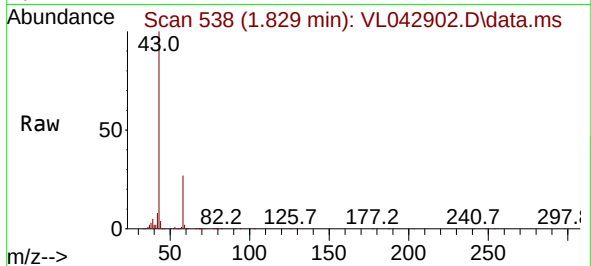
#15
Acetone
Concen: 8.435 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 15614
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6

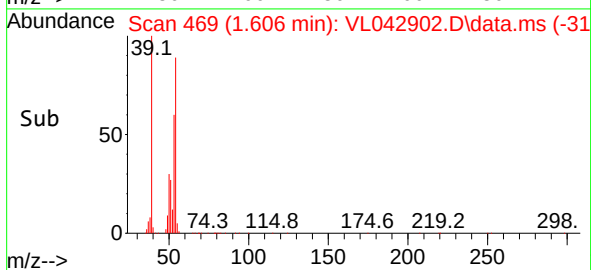
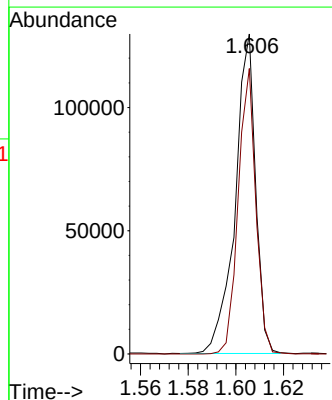
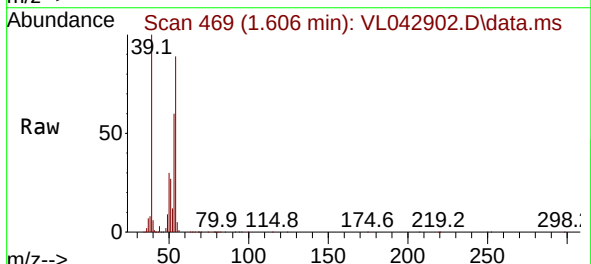
Manual Integrations
APPROVED

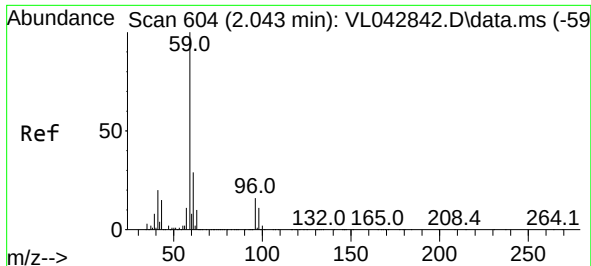
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

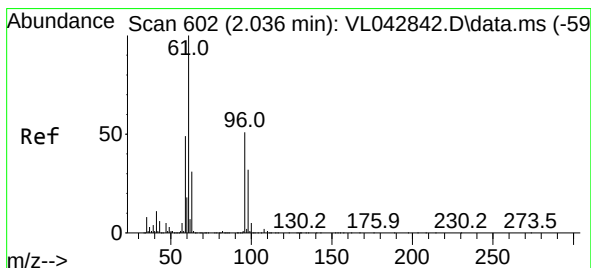
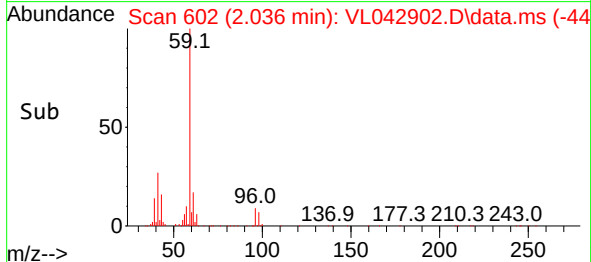
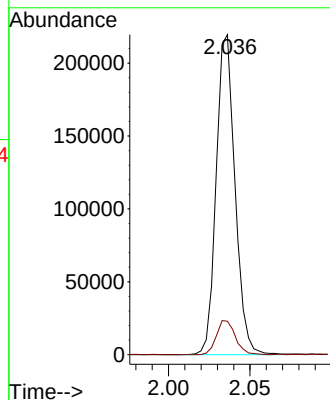
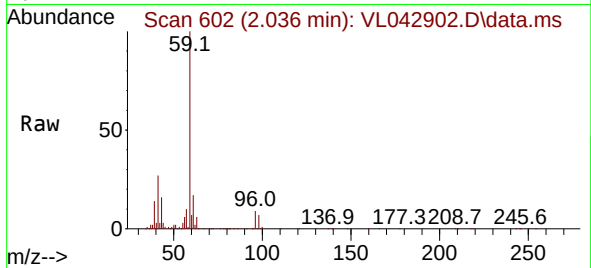
57 10.9 9.0 13.4

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

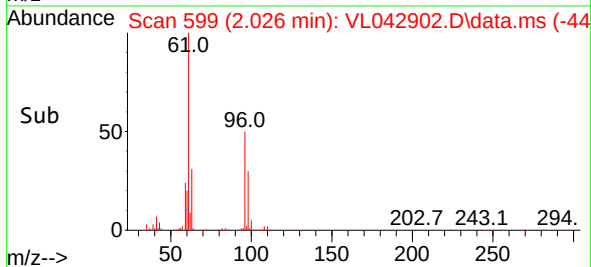
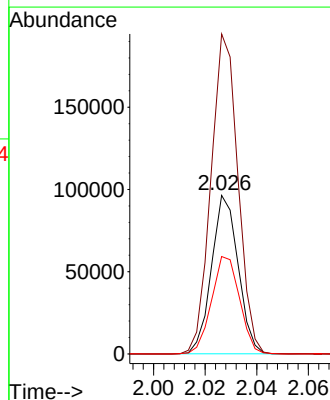
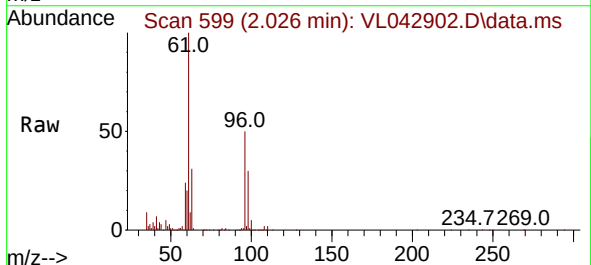
Tgt Ion: 96 Resp: 68830

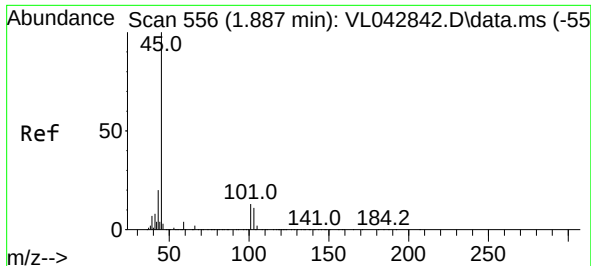
Ion Ratio Lower Upper

96 100

61 201.9 158.2 237.4

98 61.5 50.6 76.0





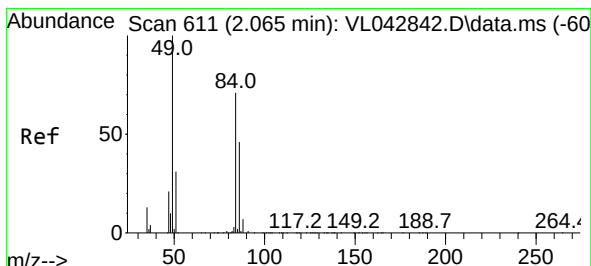
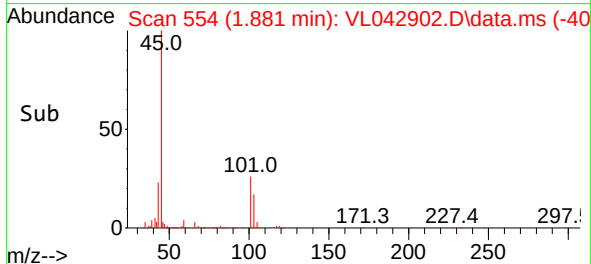
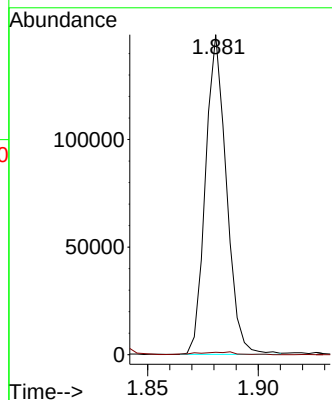
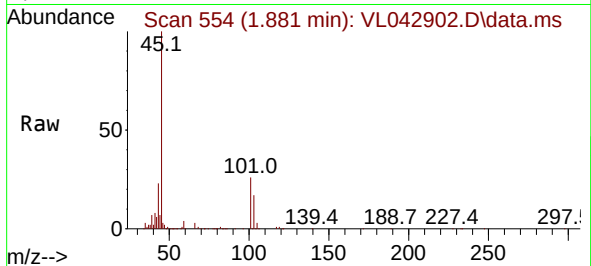
#19
Isopropyl Alcohol
Concen: 8.791 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 45 Resp: 97198
Ion Ratio Lower Upper
45 100
58 45.5 32.7 49.1

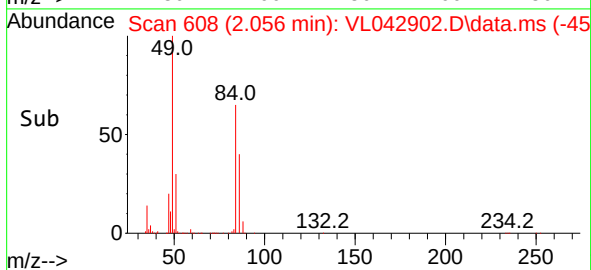
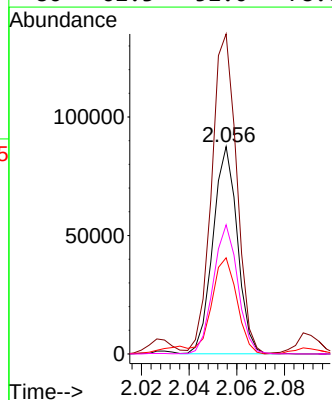
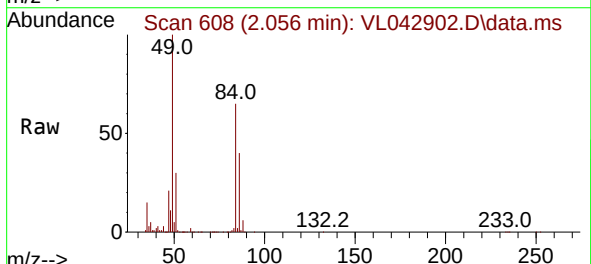
Manual Integrations
APPROVED

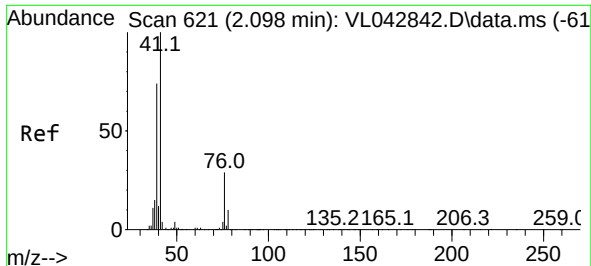
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

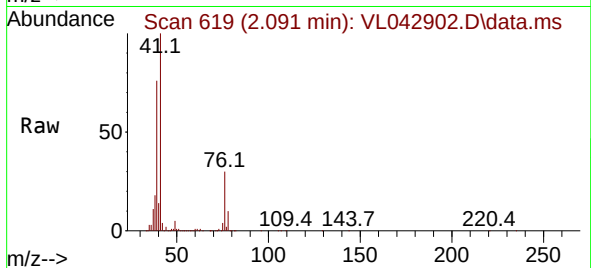
Tgt Ion: 84 Resp: 62334
Ion Ratio Lower Upper
84 100
49 153.6 112.3 168.5
51 46.1 36.0 54.0
86 62.3 52.0 78.0





#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

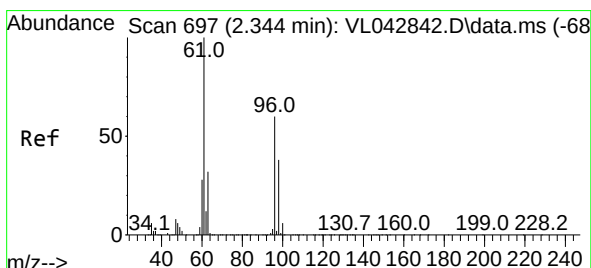
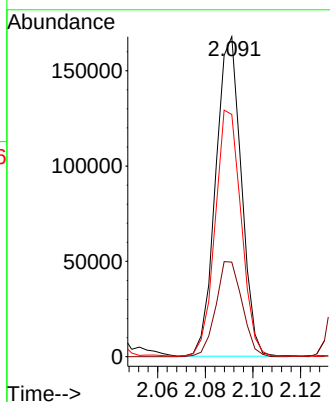
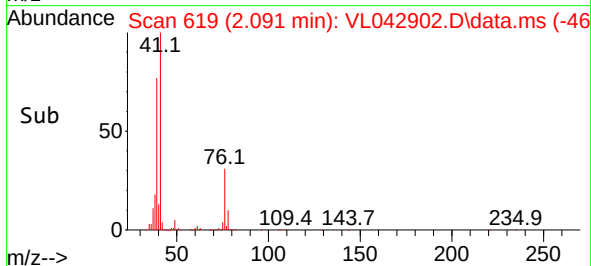
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



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

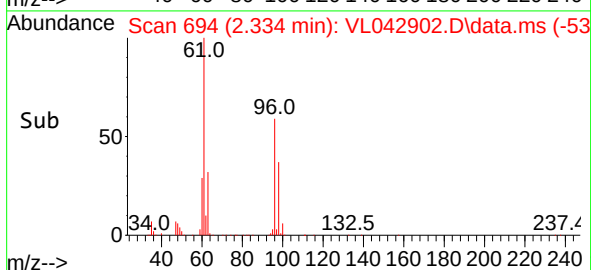
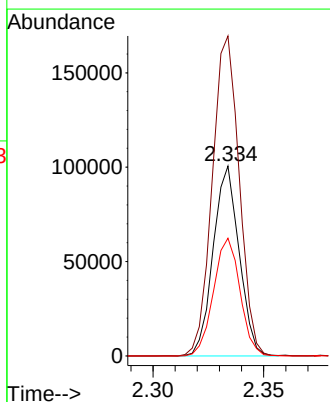
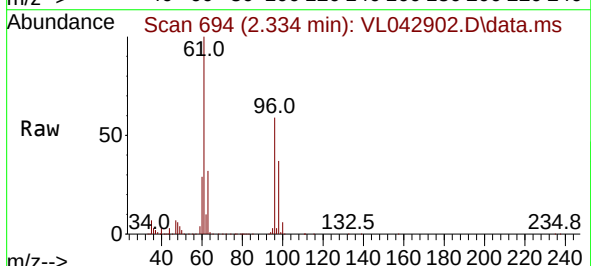
Manual Integrations
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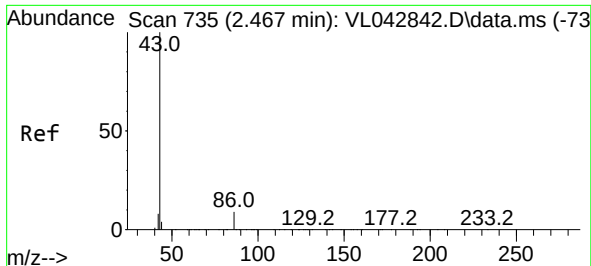
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

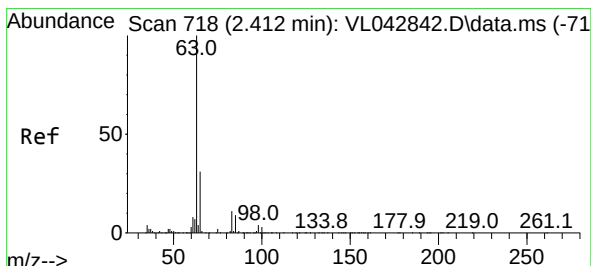
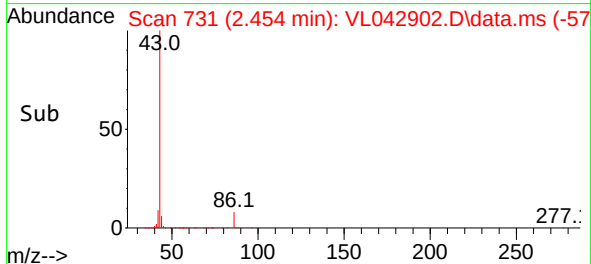
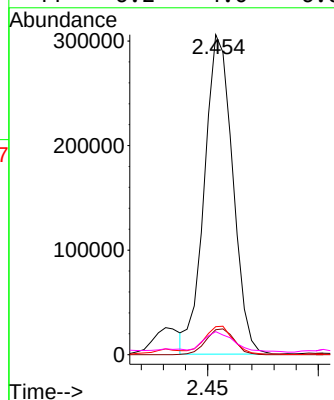
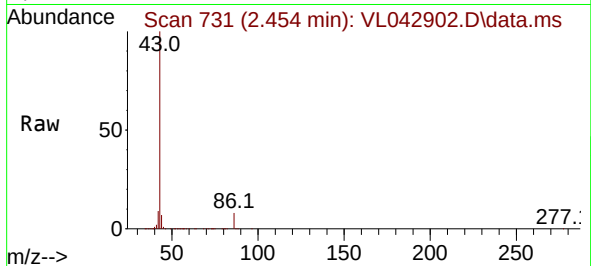
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

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

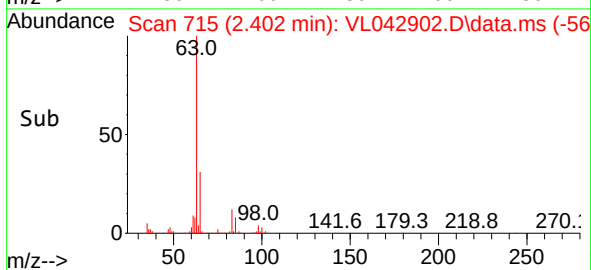
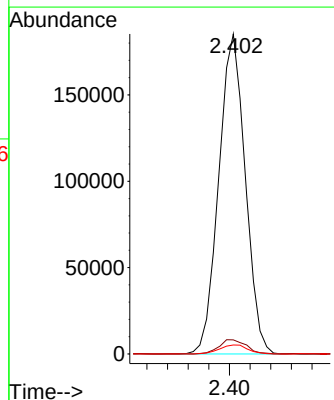
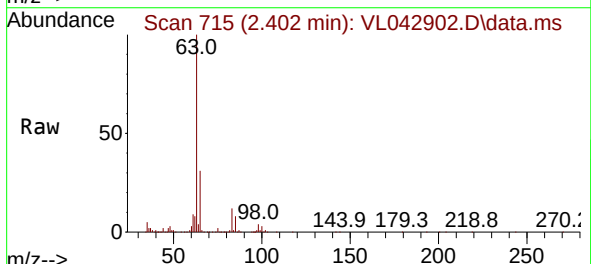
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

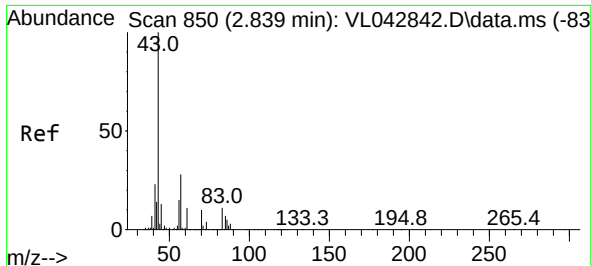


#24
 1,1-Dichloroethane
 Concen: 10.066 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Tgt Ion: 63 Resp: 164910

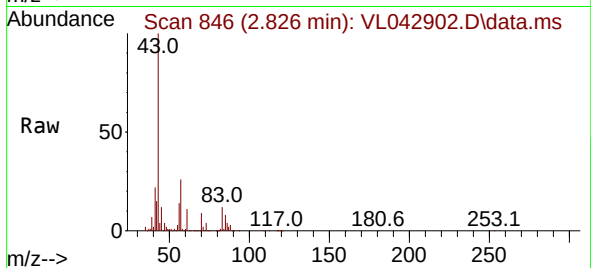
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.8	1.7	5.1





#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

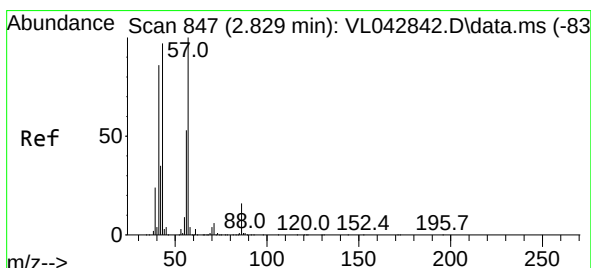
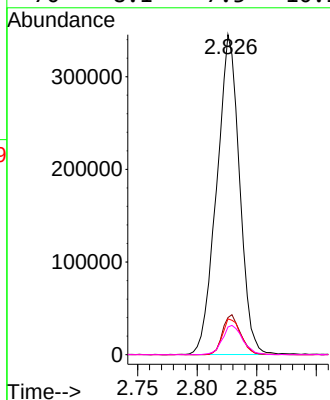
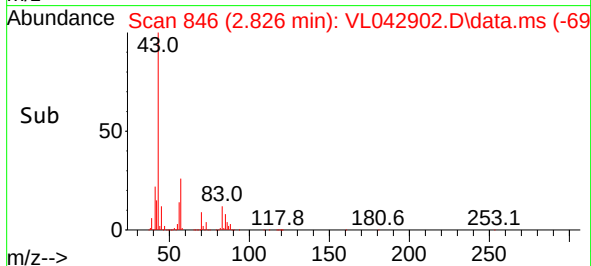
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

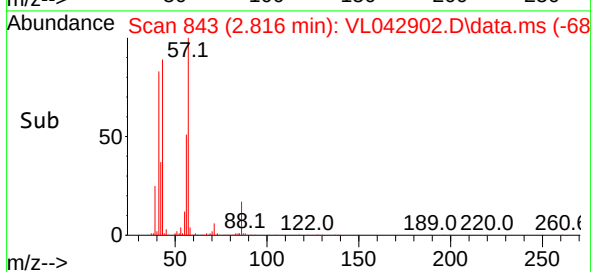
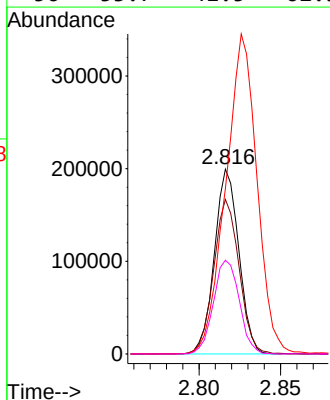
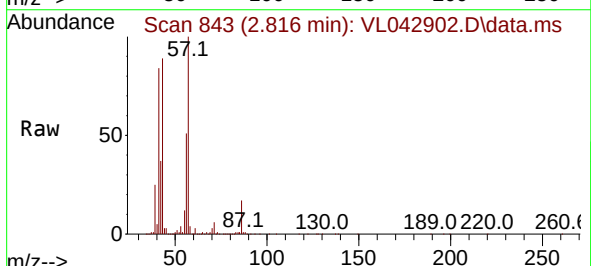
Manual Integrations
APPROVED

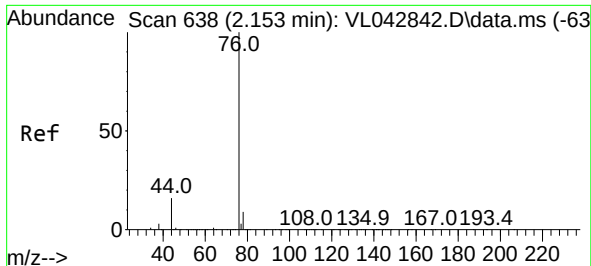
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

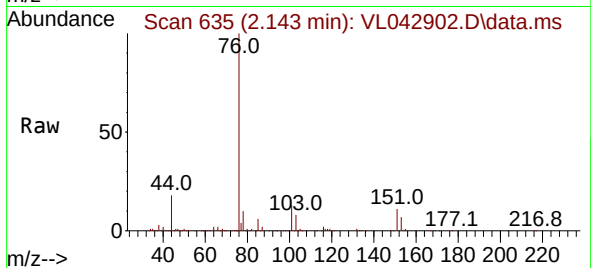
Tgt Ion: 57 Resp: 207705
Ion Ratio Lower Upper
57 100
41 87.5 68.6 103.0
43 221.9 168.5 252.7
56 53.7 41.5 62.3





#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

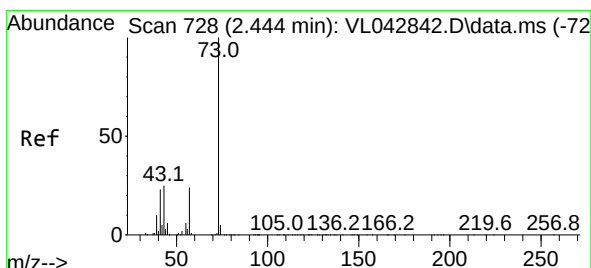
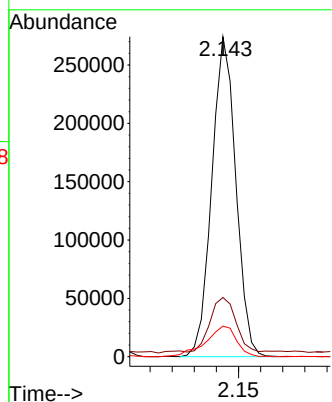
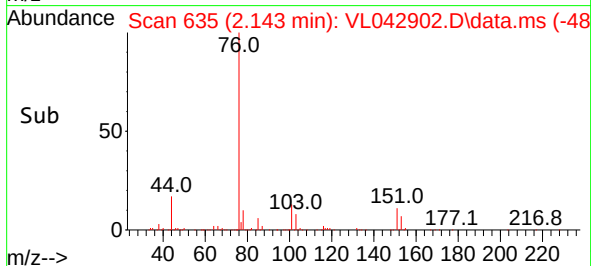
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

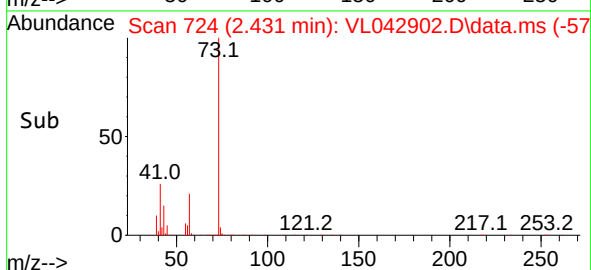
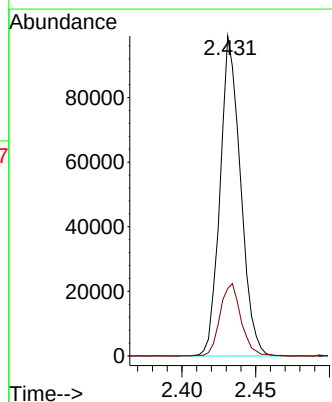
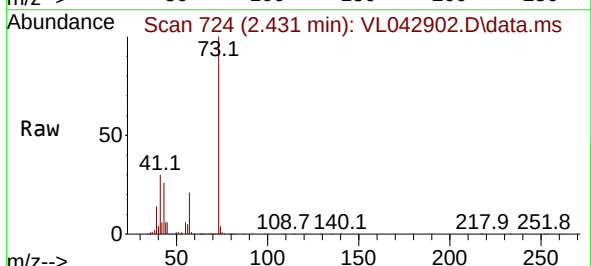
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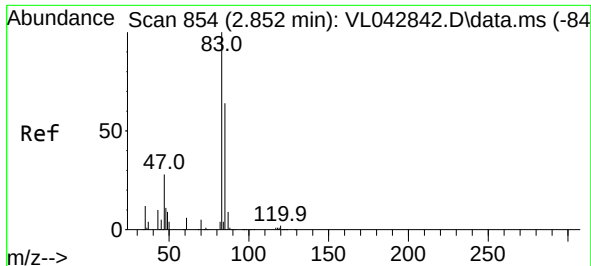
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

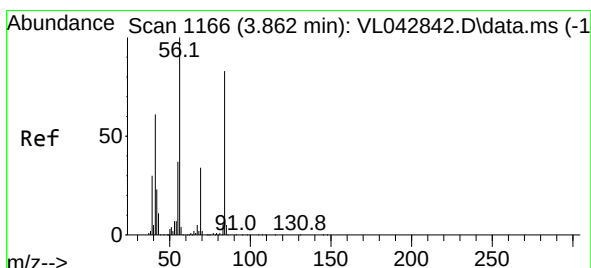
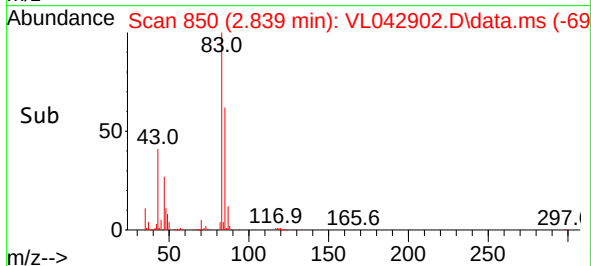
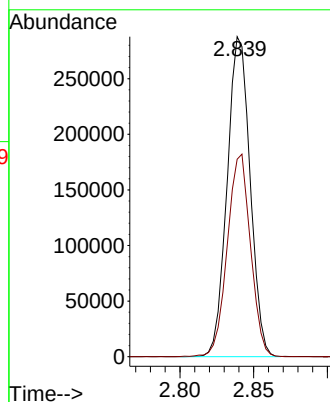
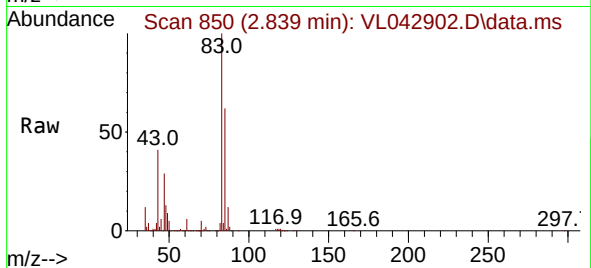
85 61.7 51.1 76.7

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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

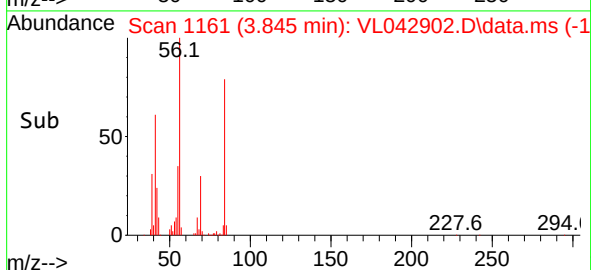
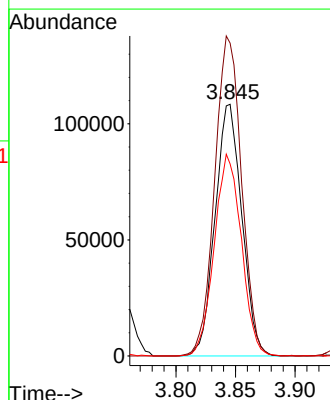
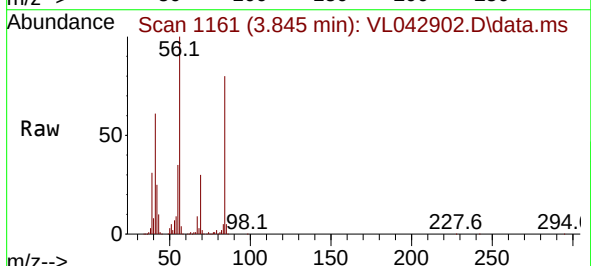
Tgt Ion: 84 Resp: 169353

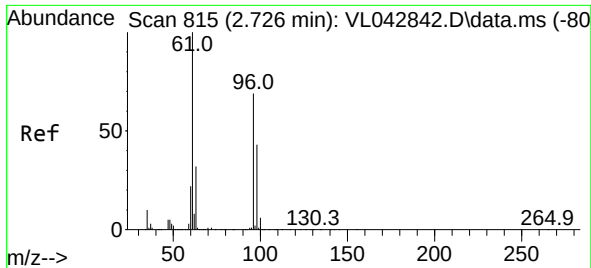
Ion Ratio Lower Upper

84 100

56 127.6 98.8 148.2

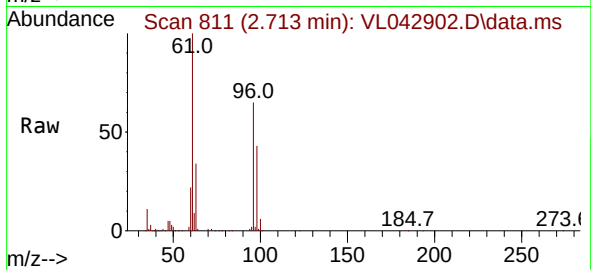
41 81.1 61.3 91.9





#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

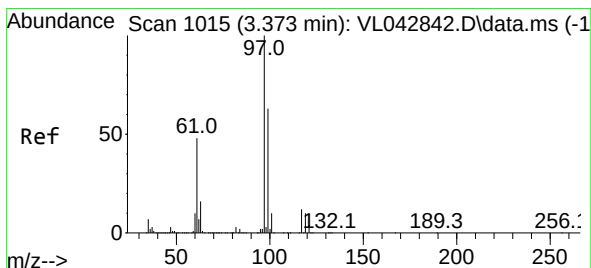
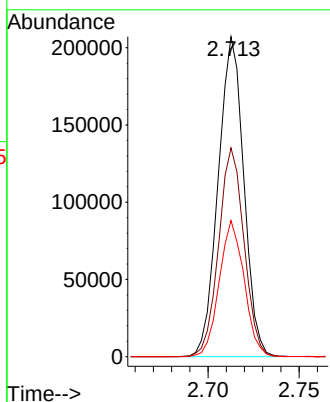
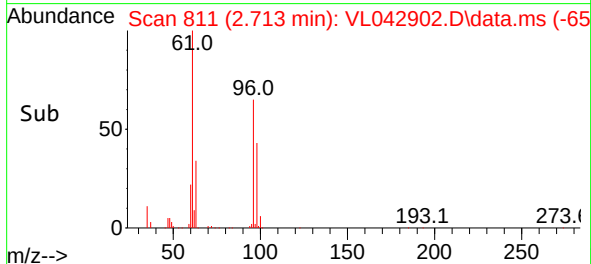
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



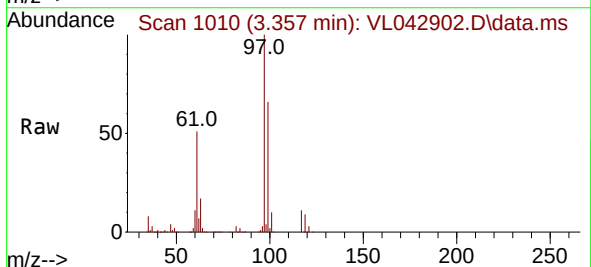
Tgt Ion: 61 Resp: 202349
 Ion Ratio Lower Upper
 61 100
 96 65.2 55.0 82.6
 98 42.5 34.3 51.5

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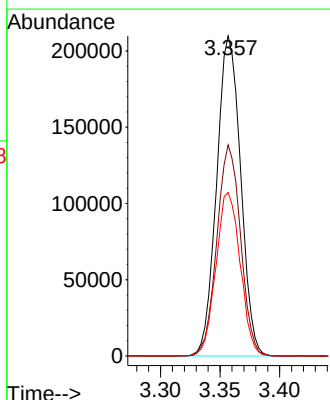
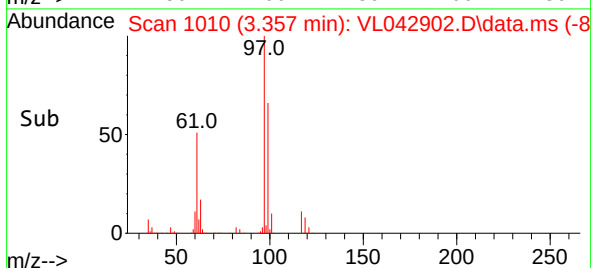
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

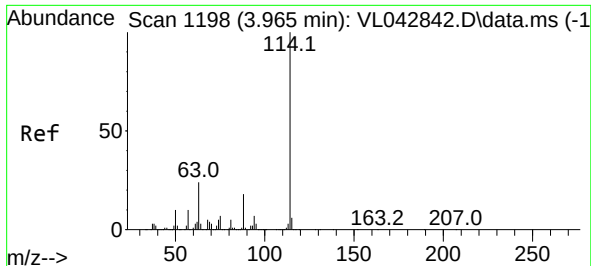


#32
 1,1,1-Trichloroethane
 Concen: 9.409 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



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

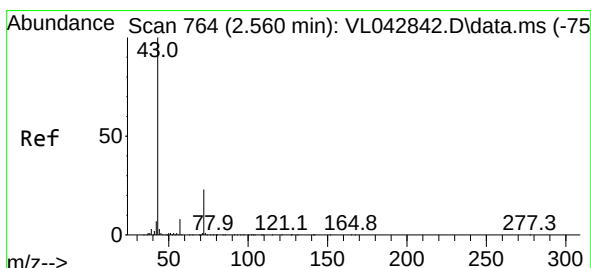
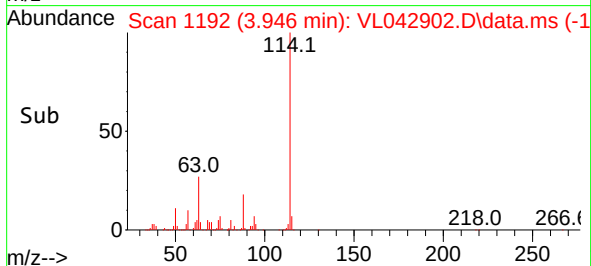
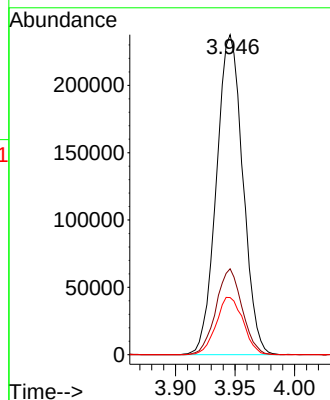
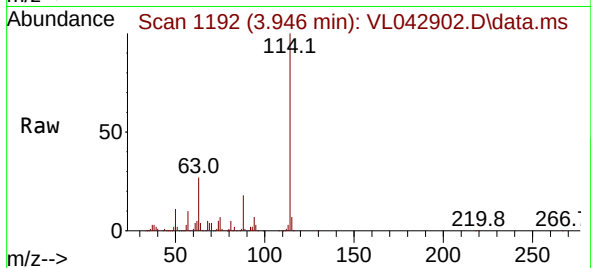
Tgt Ion:	114	Resp:	36585
Ion Ratio	Lower	Upper	
114	100		
63	26.5	19.7	29.5
88	18.3	14.4	21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 12.066 ppbv

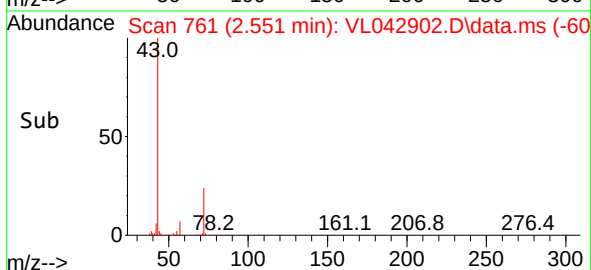
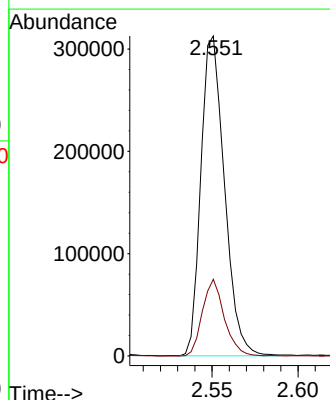
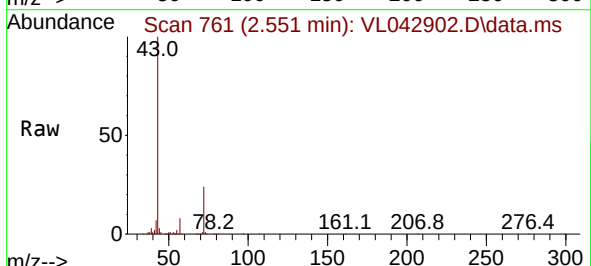
RT: 2.551 min Scan# 761

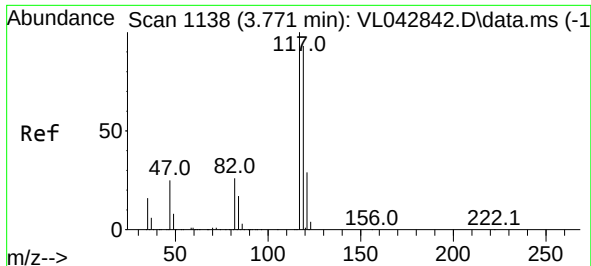
Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

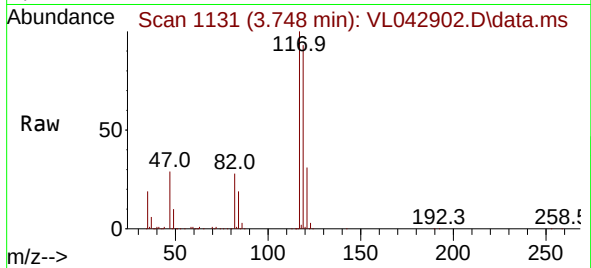
Tgt Ion:	43	Resp:	298071
Ion Ratio	Lower	Upper	
43	100		
72	22.3	18.6	28.0





#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

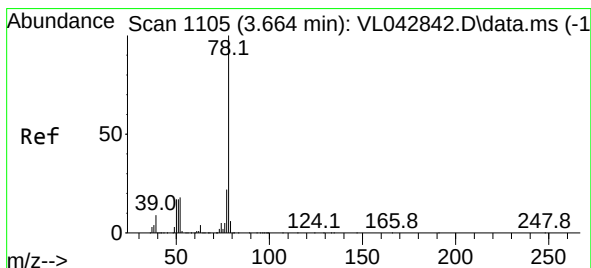
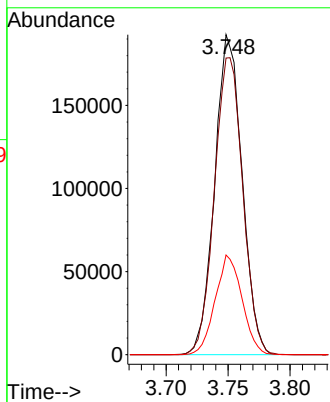
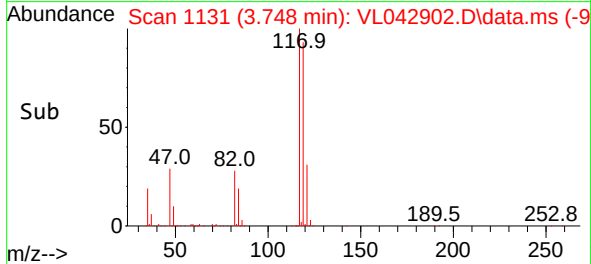
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

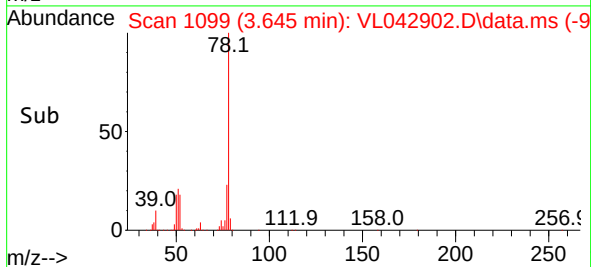
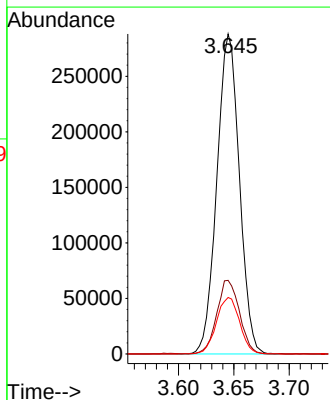
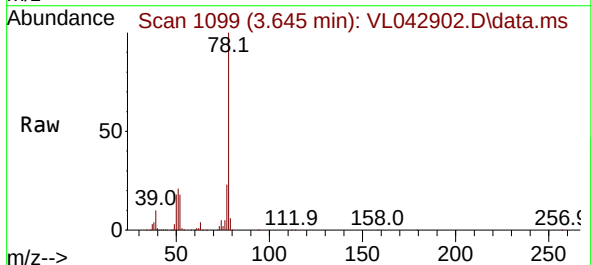
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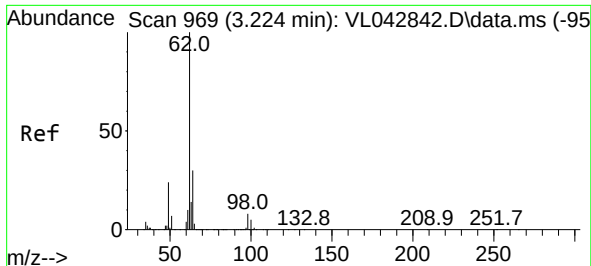
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

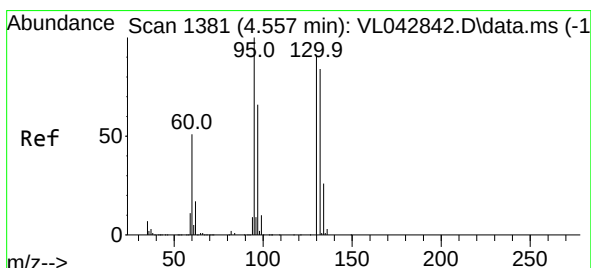
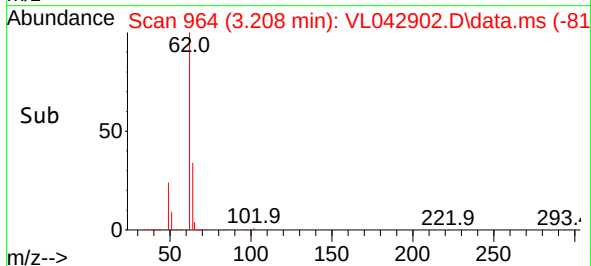
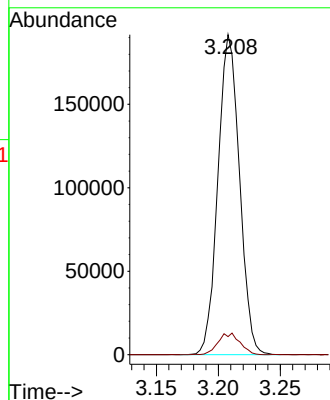
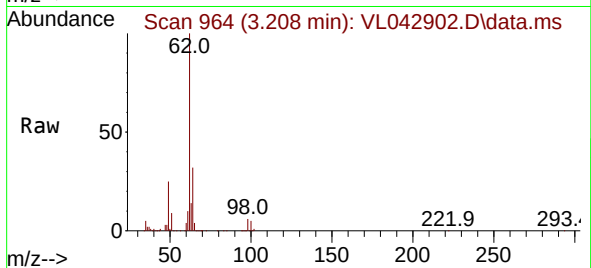
98 6.9 5.9 8.9

Manual Integrations

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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

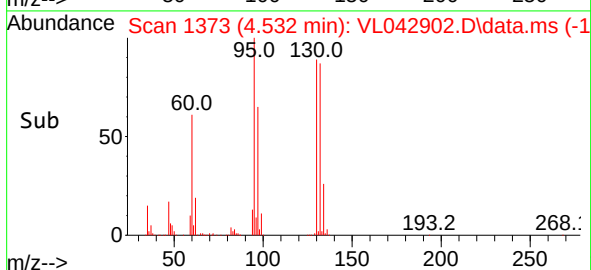
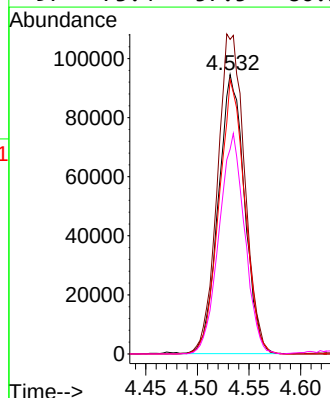
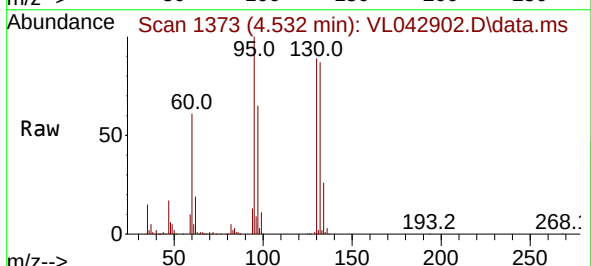
Ion Ratio Lower Upper

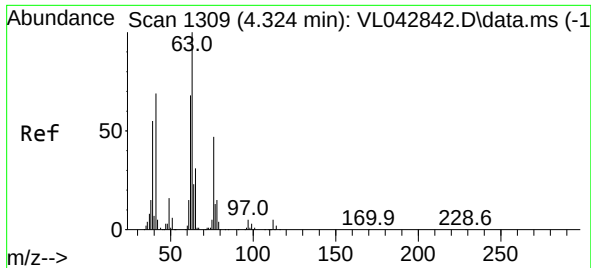
130 100

95 112.8 87.6 131.4

132 98.3 73.8 110.8

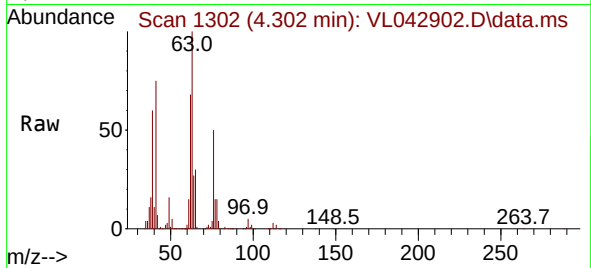
97 73.4 57.5 86.3





#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

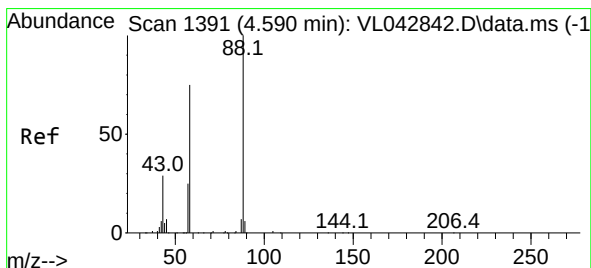
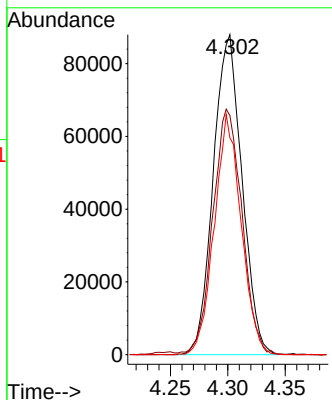
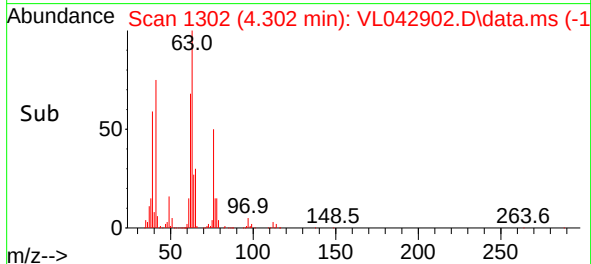
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



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

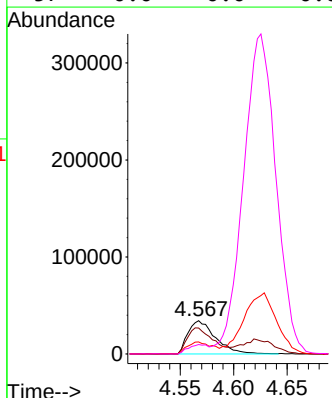
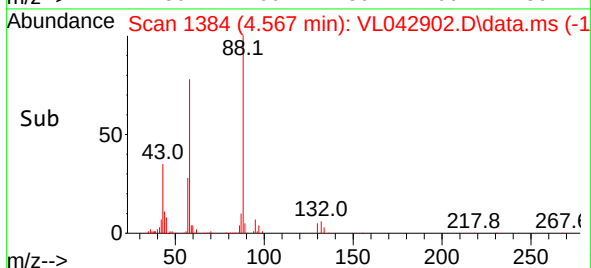
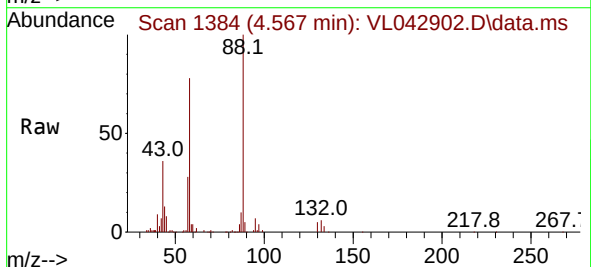
Manual Integrations
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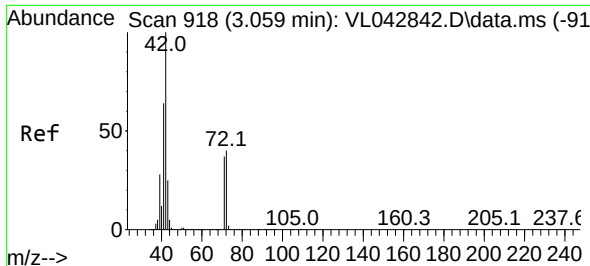
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

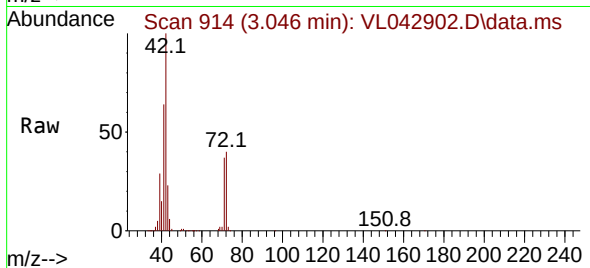
Tgt Ion: 88 Resp: 61682
 Ion Ratio Lower Upper
 88 100
 58 75.9 53.8 80.6
 43 36.0 22.8 34.2#
 57 0.0 0.0 0.0





#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

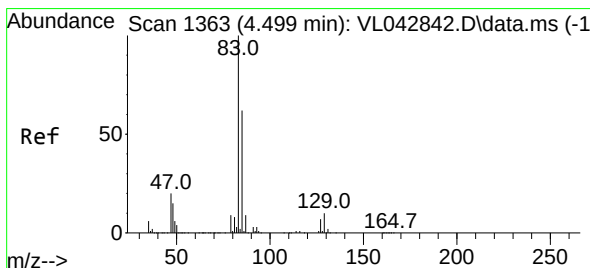
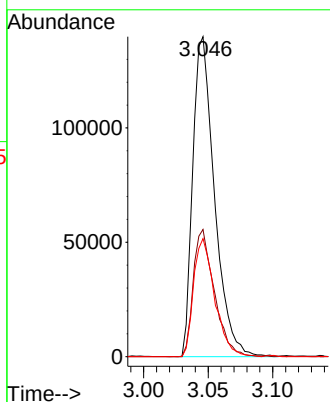
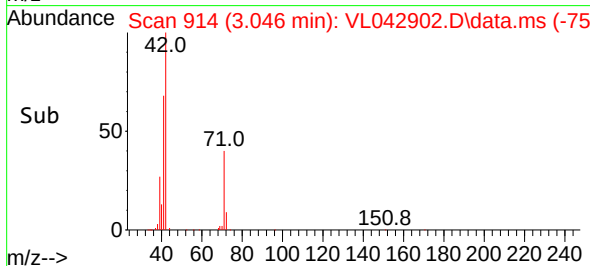
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



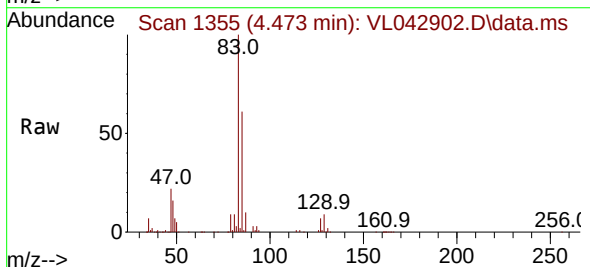
Tgt Ion: 42 Resp: 164268
Ion Ratio Lower Upper
42 100
72 38.6 32.6 48.8
71 36.0 30.0 45.0

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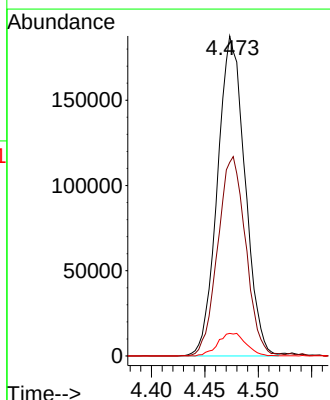
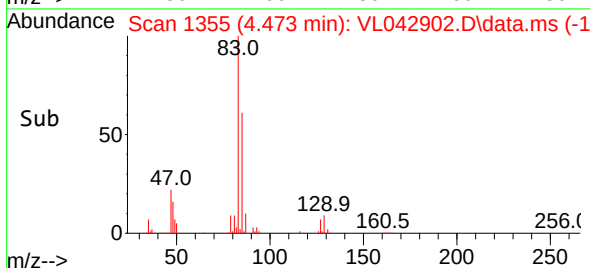
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

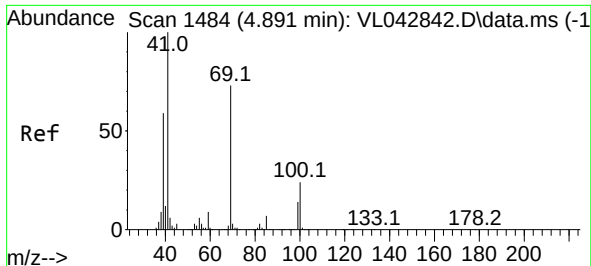


#42
Bromodichloromethane
Concen: 12.351 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



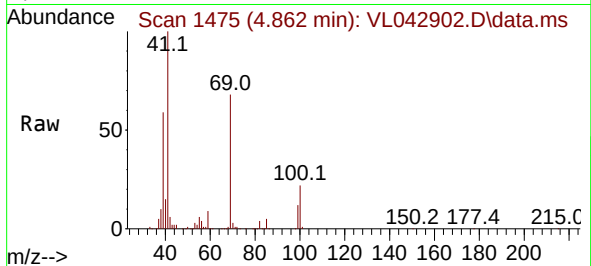
Tgt Ion: 83 Resp: 336858
Ion Ratio Lower Upper
83 100
85 60.5 49.8 74.8
127 7.0 5.8 8.6





#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

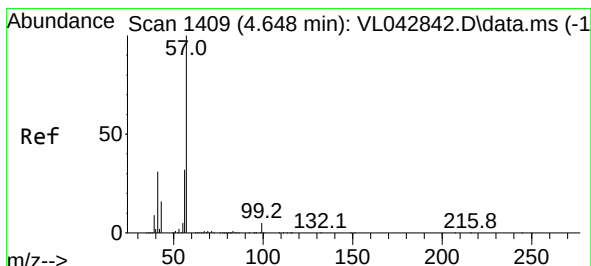
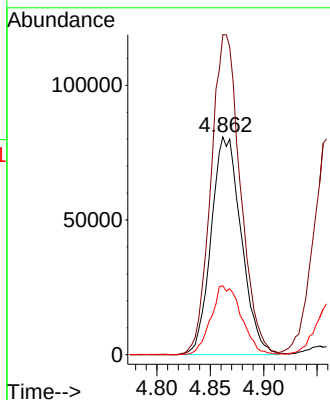
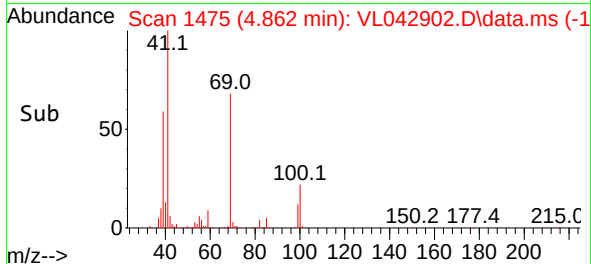
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



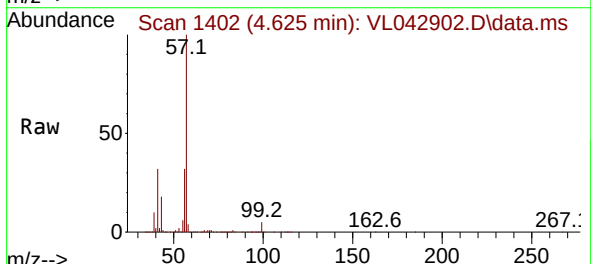
Tgt Ion: 69 Resp: 15845
Ion Ratio Lower Upper
69 100
41 143.9 114.6 172.0
100 32.1 30.2 45.4

Manual Integrations
APPROVED

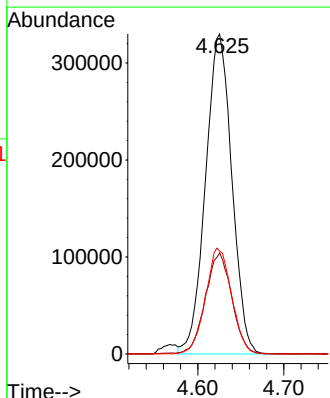
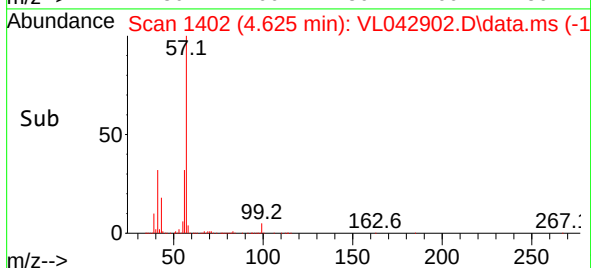
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

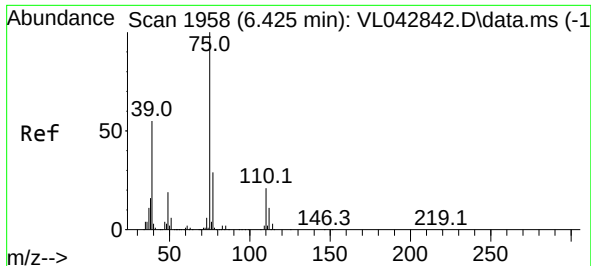


#44
2,2,4-Trimethylpentane
Concen: 11.797 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



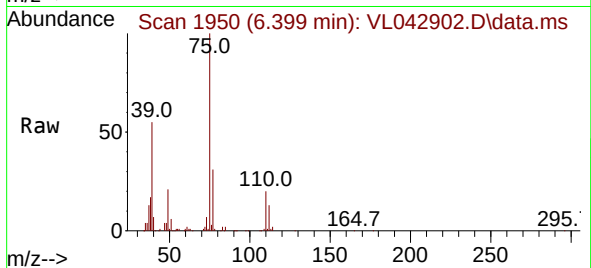
Tgt Ion: 57 Resp: 701486
Ion Ratio Lower Upper
57 100
41 31.8 24.8 37.2
56 32.7 25.5 38.3





#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

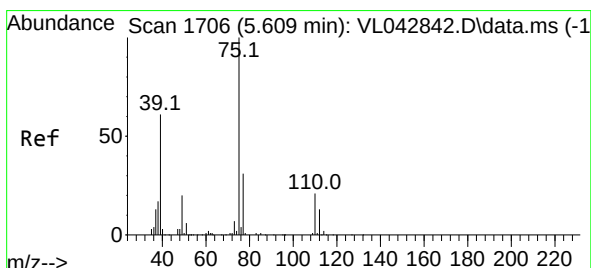
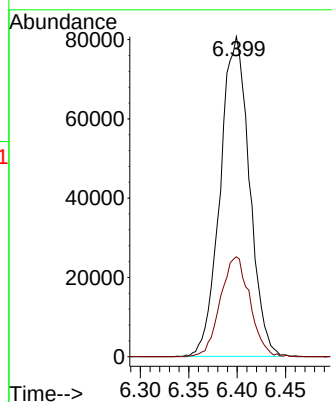
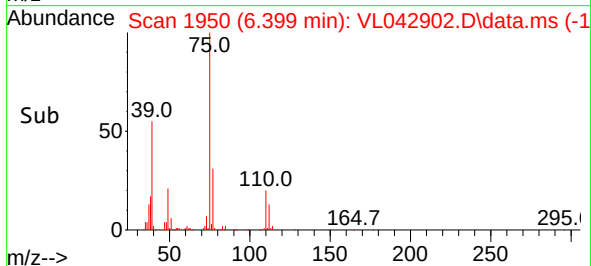
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



Tgt Ion: 75 Resp: 16943
 Ion Ratio Lower Upper
 75 100
 77 31.2 23.8 35.6

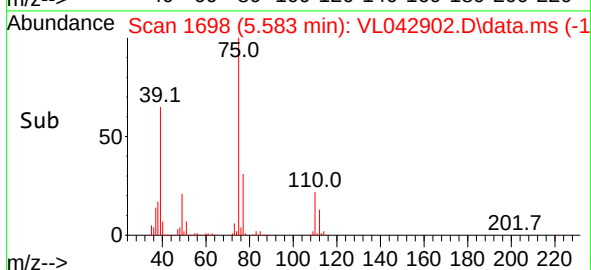
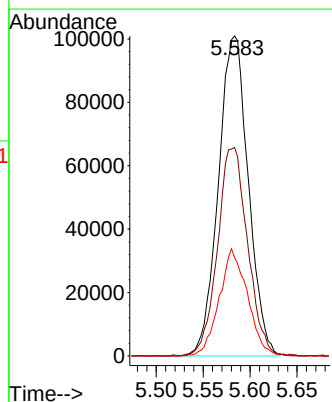
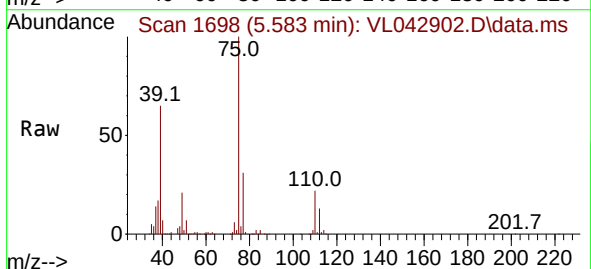
Manual Integrations
 APPROVED

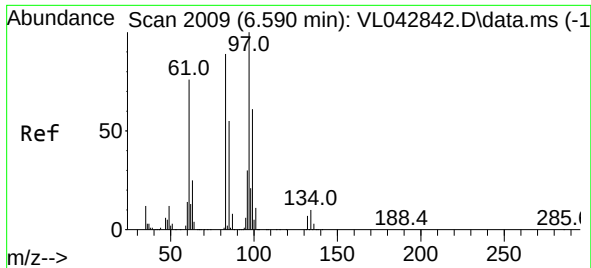
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

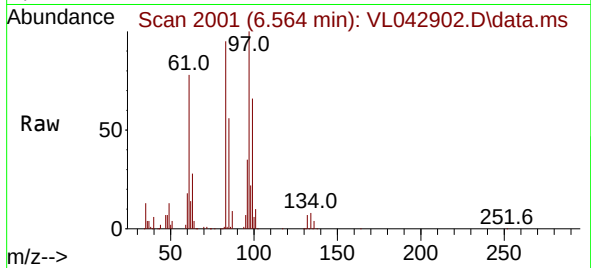
Tgt Ion: 75 Resp: 223871
 Ion Ratio Lower Upper
 75 100
 39 65.0 48.9 73.3
 77 30.8 24.9 37.3





#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

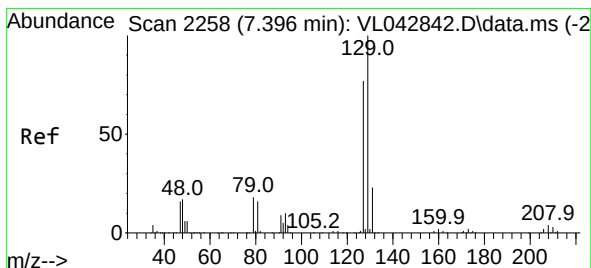
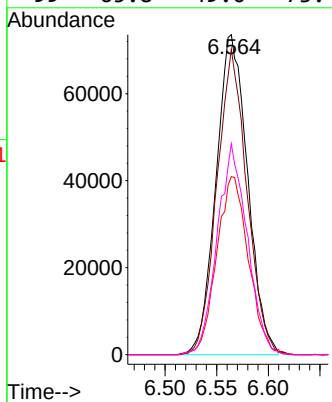
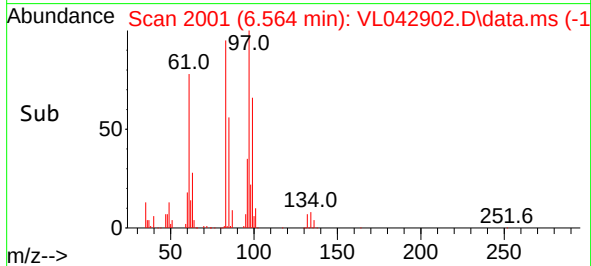
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

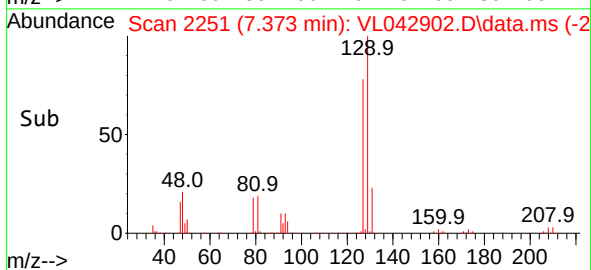
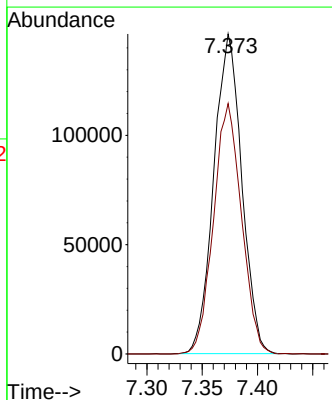
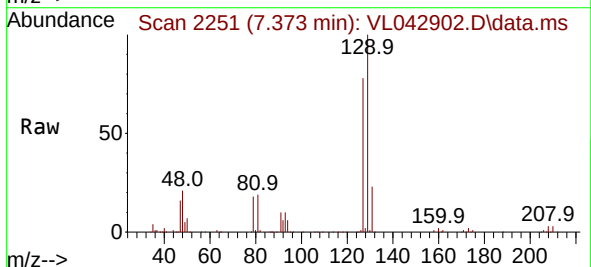
Manual Integrations
APPROVED

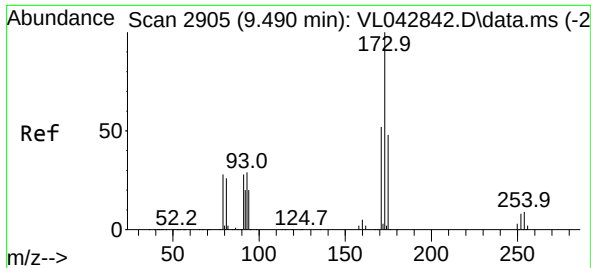
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





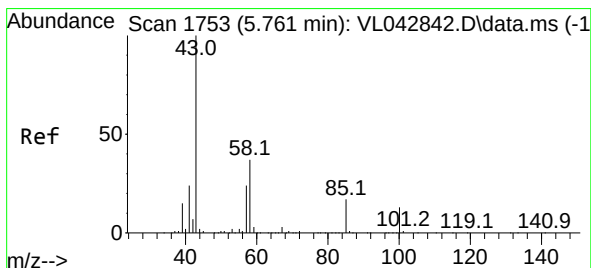
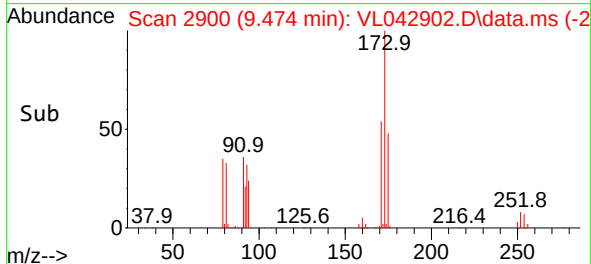
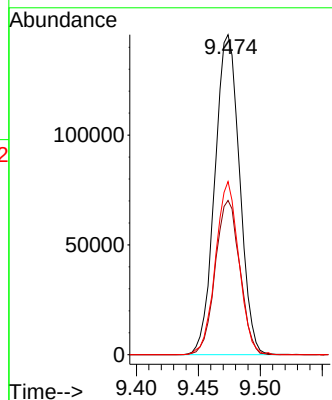
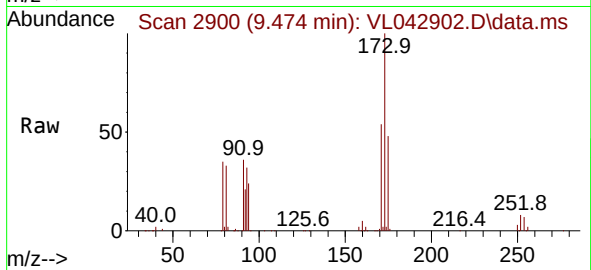
#49
Bromoform
Concen: 11.222 ppbv
RT: 9.474 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

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

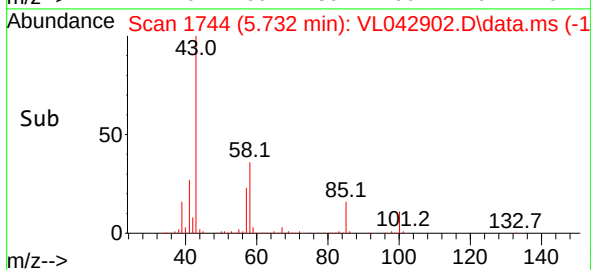
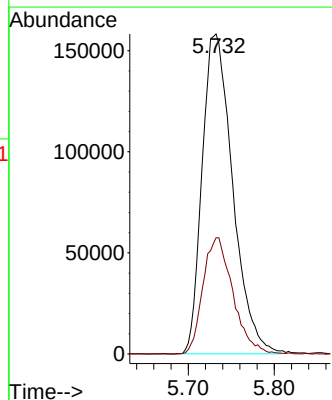
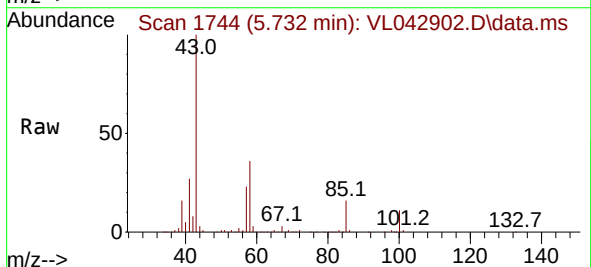
Manual Integrations
APPROVED

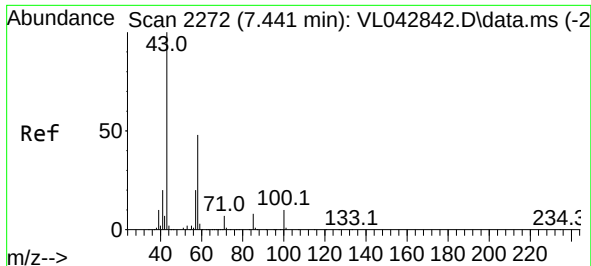
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

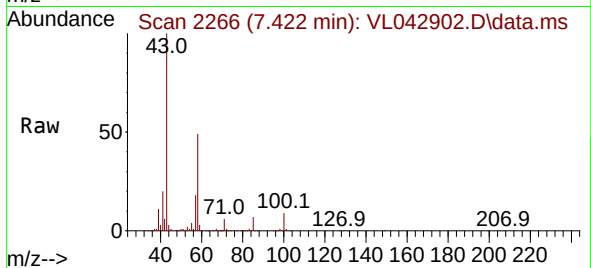
Tgt Ion: 43 Resp: 390291
Ion Ratio Lower Upper
43 100
58 35.7 29.8 44.8





#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

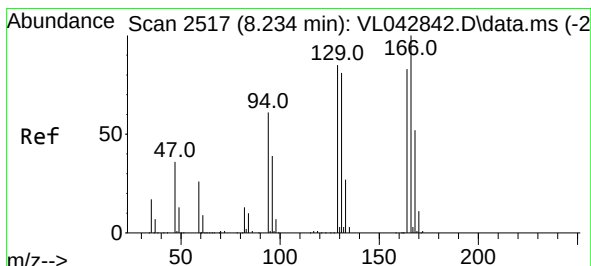
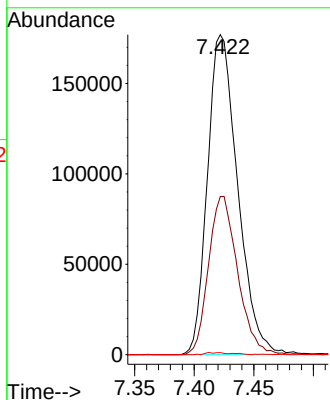
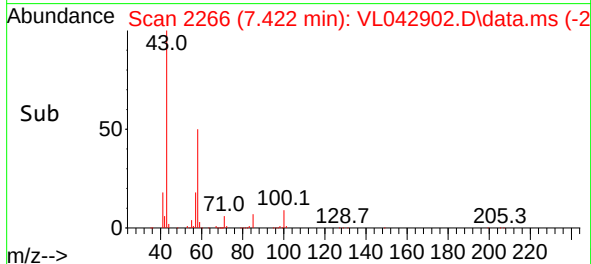
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

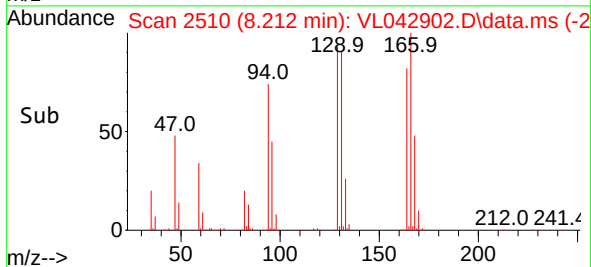
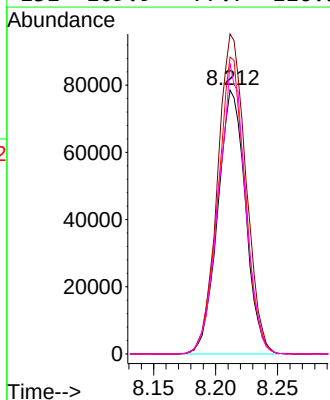
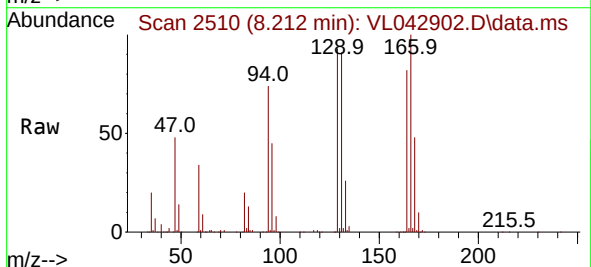
Manual Integrations
APPROVED

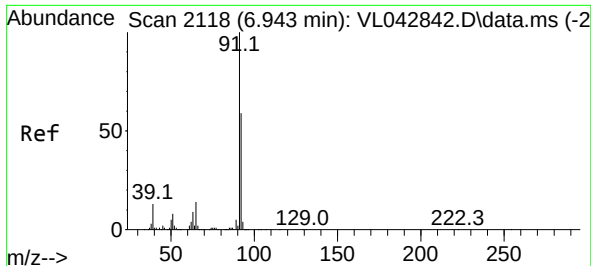
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





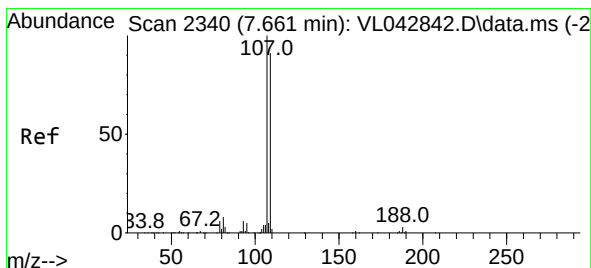
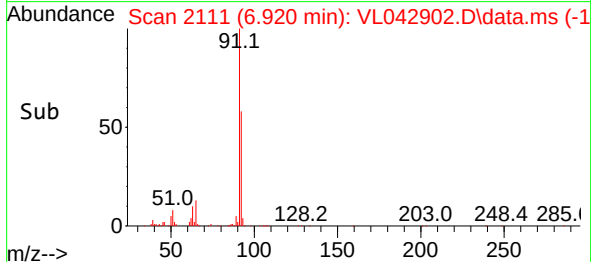
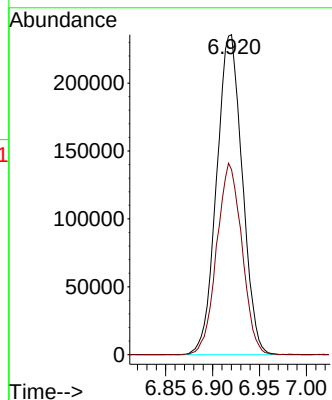
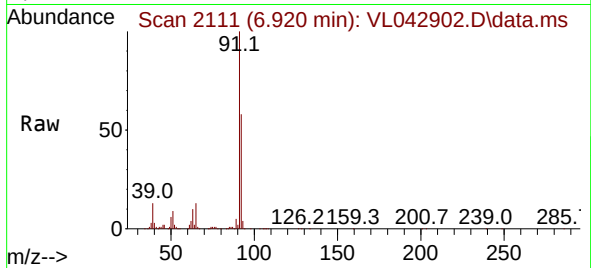
#53
Toluene
Concen: 10.752 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 447844
Ion Ratio Lower Upper
91 100
92 58.9 47.8 71.6

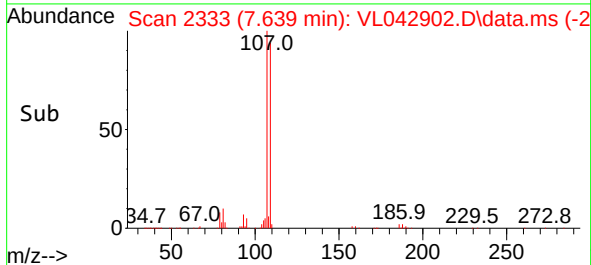
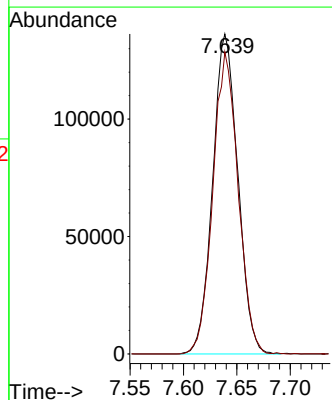
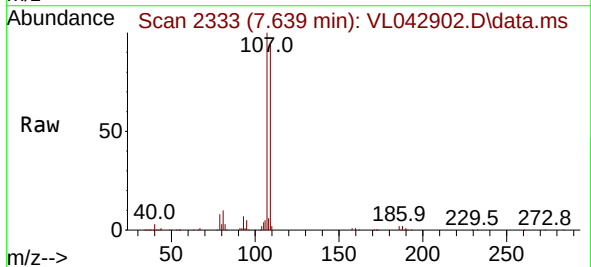
Manual Integrations
APPROVED

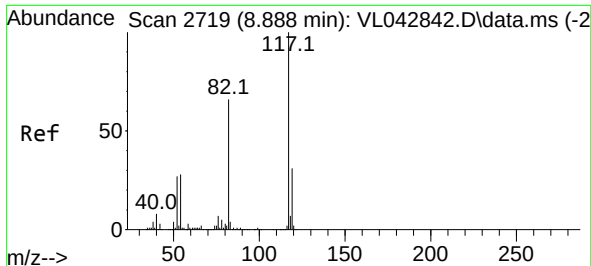
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





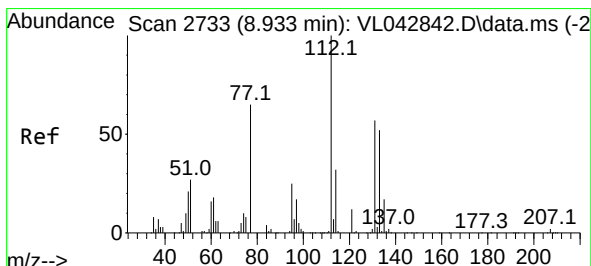
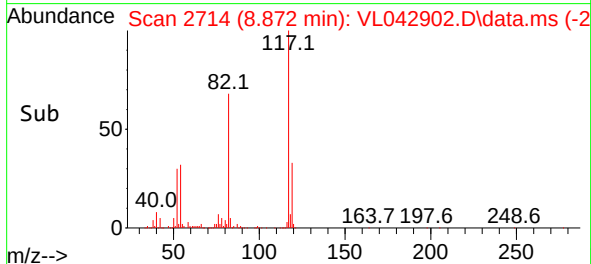
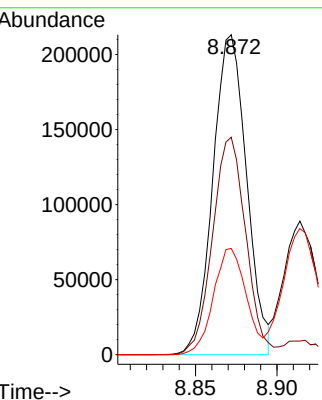
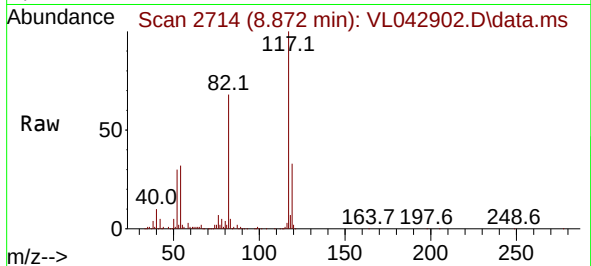
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

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

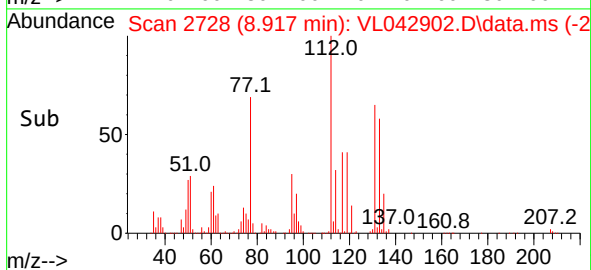
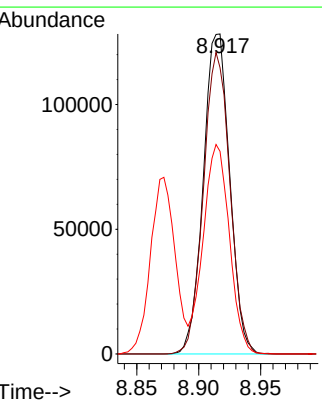
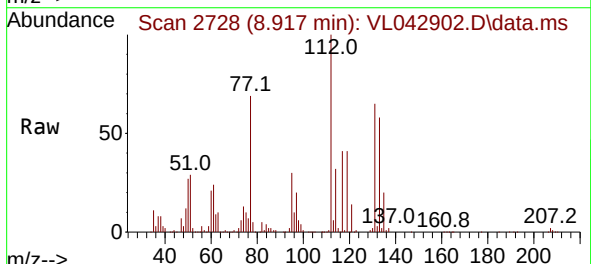
Manual Integrations
APPROVED

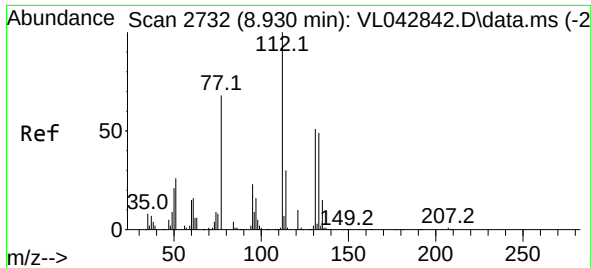
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

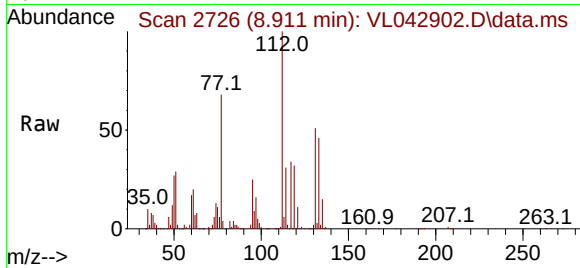
Tgt Ion:131 Resp: 190922
Ion Ratio Lower Upper
131 100
133 94.5 77.4 116.0
119 64.9 51.2 76.8





#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

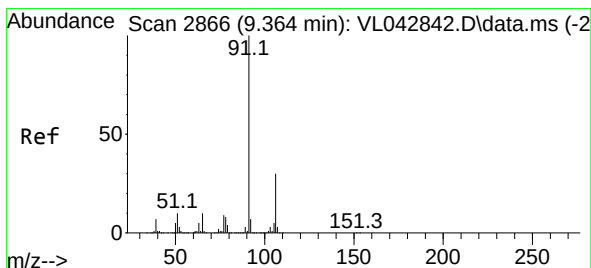
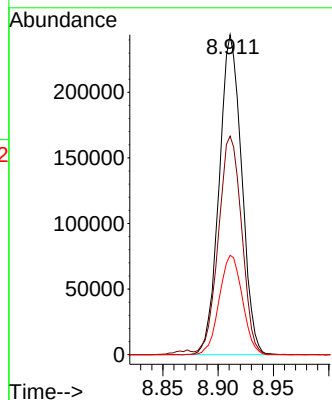
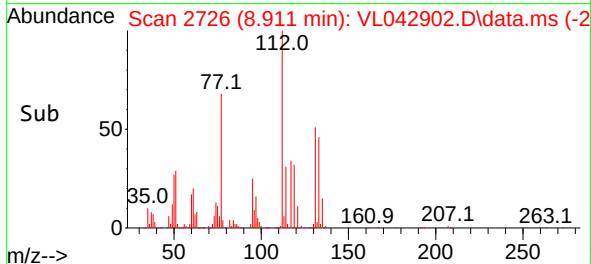
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

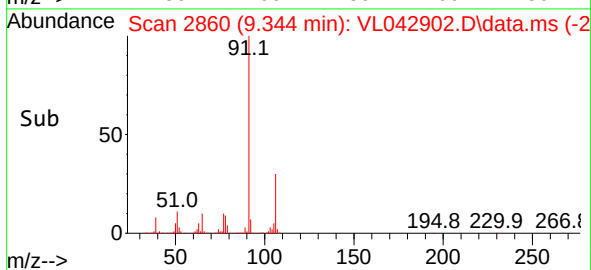
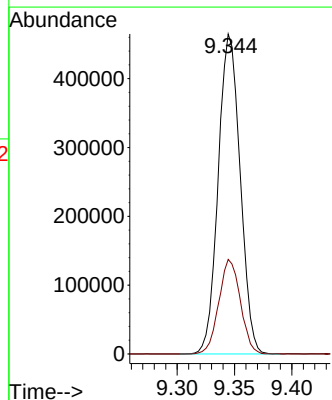
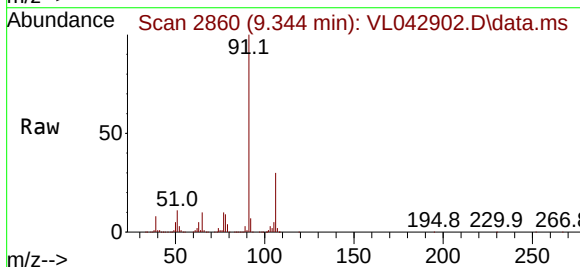
Manual Integrations
APPROVED

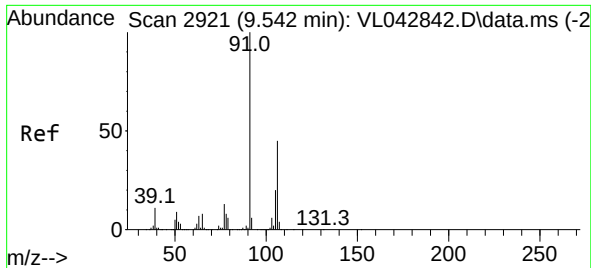
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





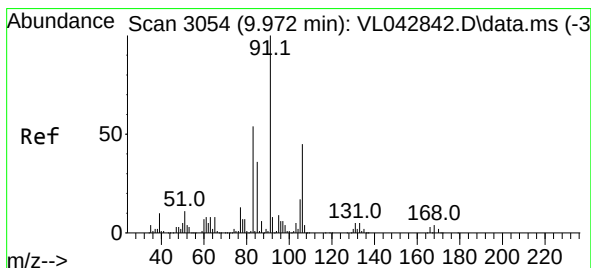
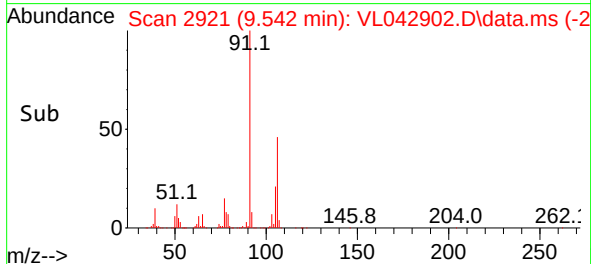
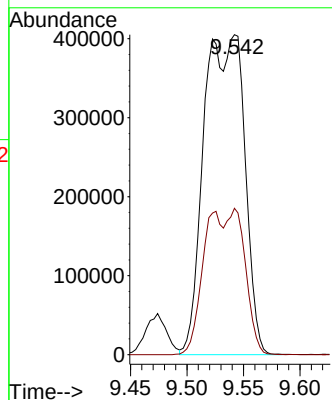
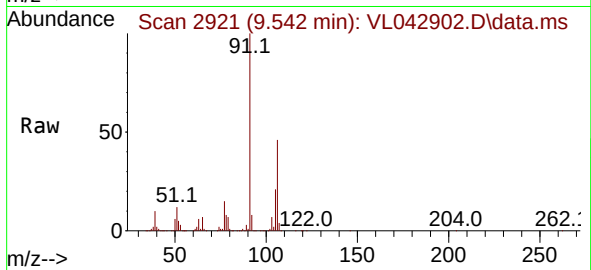
#59
m/p-Xylene
Concen: 23.968 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 1015739
Ion Ratio Lower Upper
91 100
106 45.2 0.0 0.0

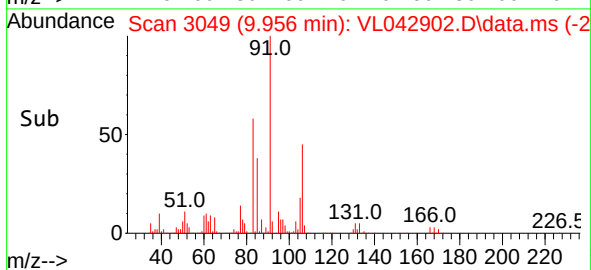
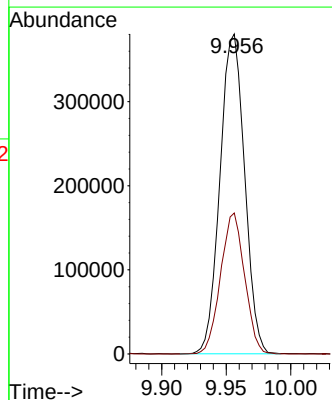
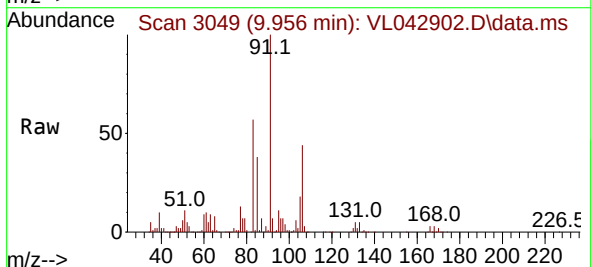
Manual Integrations
APPROVED

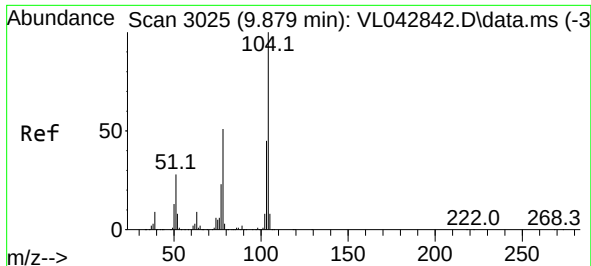
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





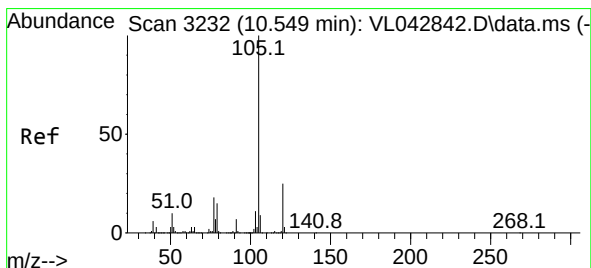
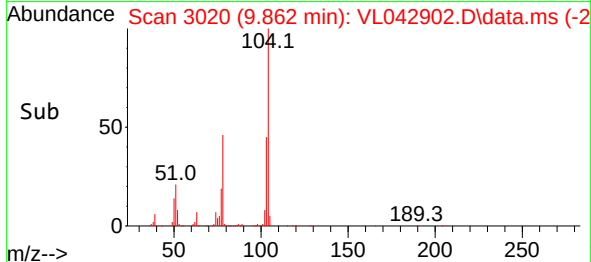
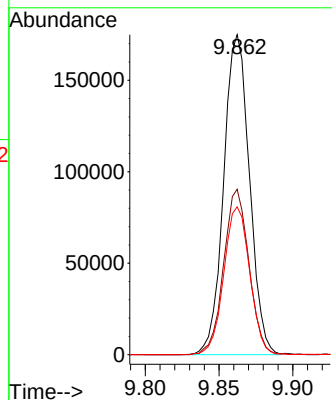
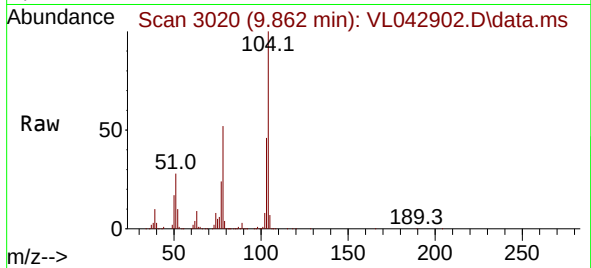
#61
Styrene
Concen: 10.644 ppbv
RT: 9.862 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

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

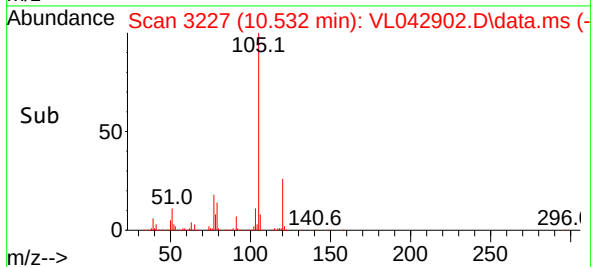
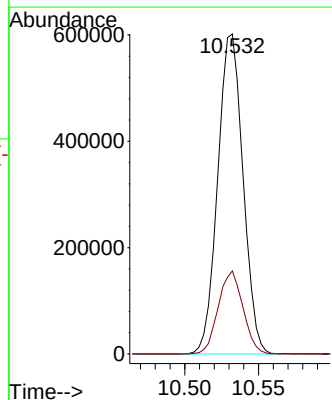
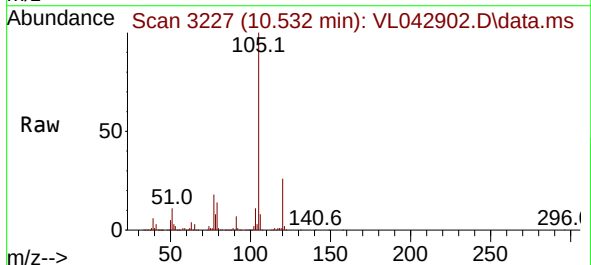
Manual Integrations
APPROVED

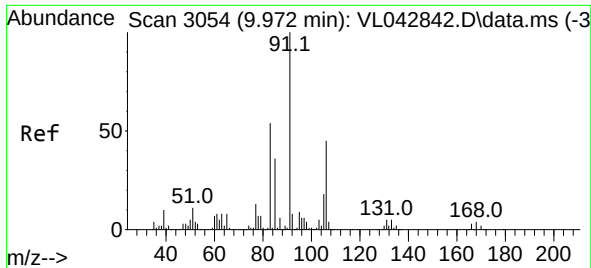
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

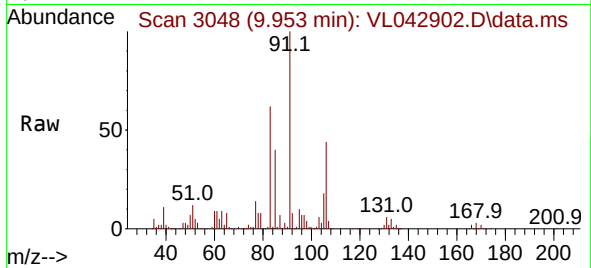
Tgt Ion:105 Resp: 717761
Ion Ratio Lower Upper
105 100
120 25.3 20.6 30.8





#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

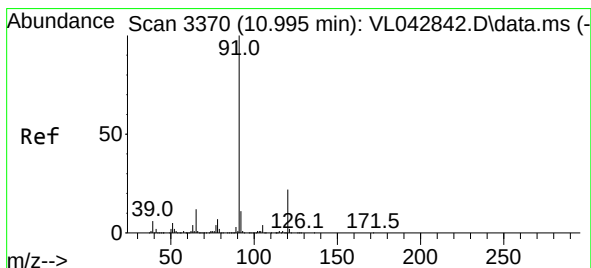
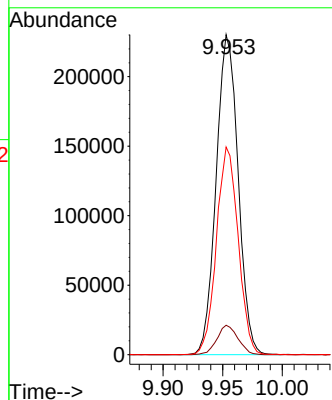
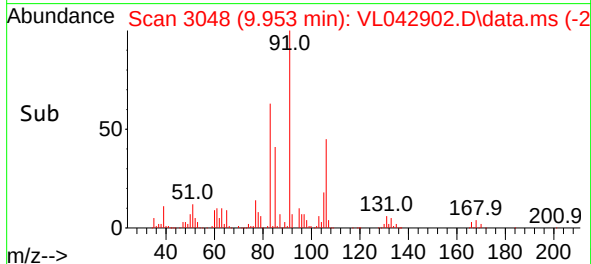
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



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

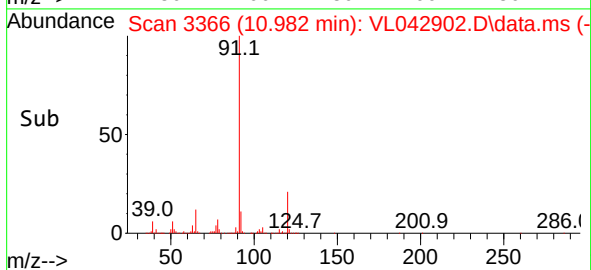
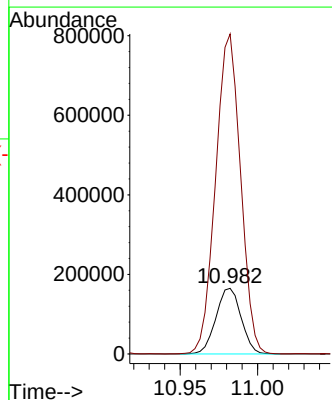
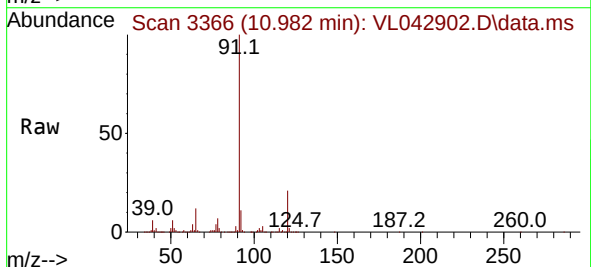
Manual Integrations
APPROVED

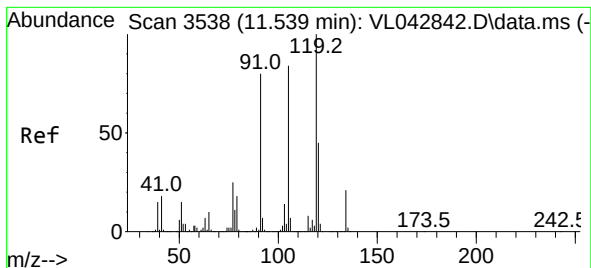
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

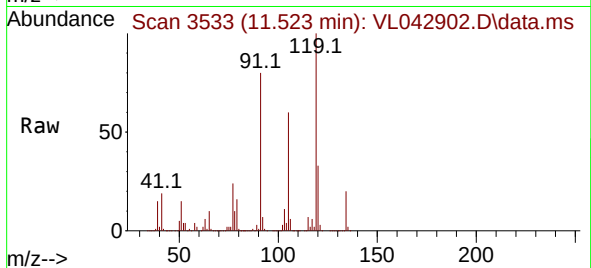
Tgt Ion:120 Resp: 186258
Ion Ratio Lower Upper
120 100
91 484.6 375.8 563.6





#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

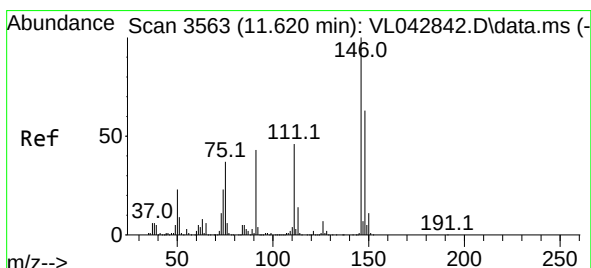
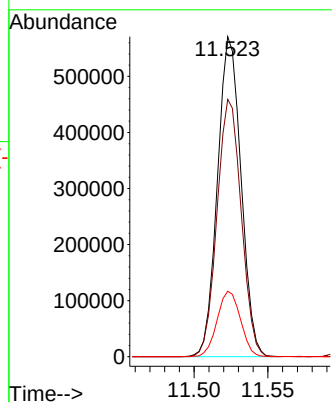
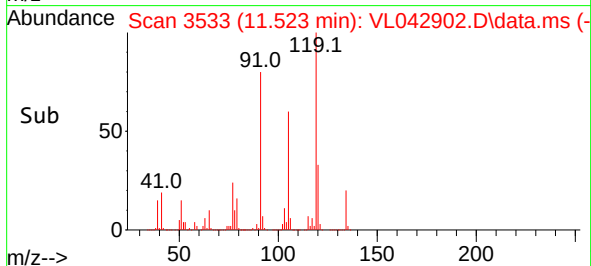
Instrument : MSVOA_L
ClientSampleId : VL0908ABS01



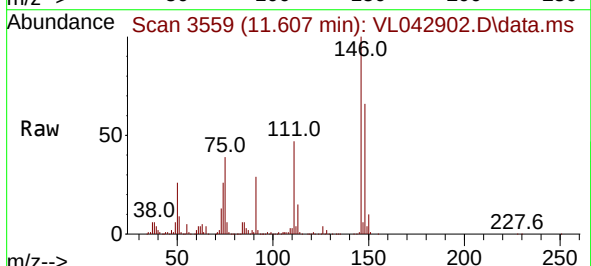
Tgt Ion: 119 Resp: 63384
Ion Ratio Lower Upper
119 100
91 82.5 63.9 95.9
134 20.3 17.0 25.4

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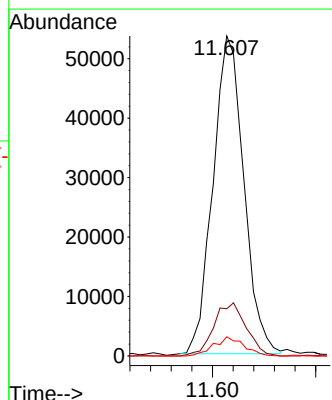
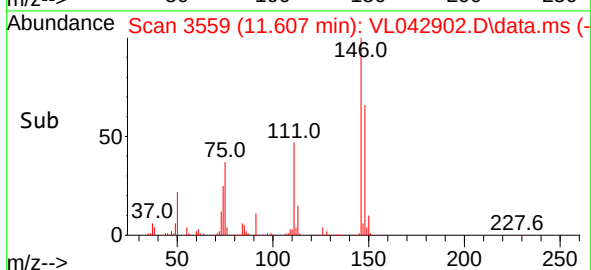
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

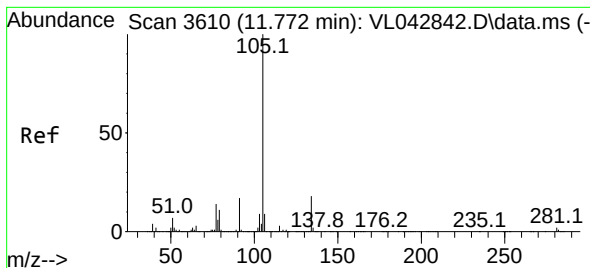


#66
Benzyl Chloride
Concen: 7.954 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



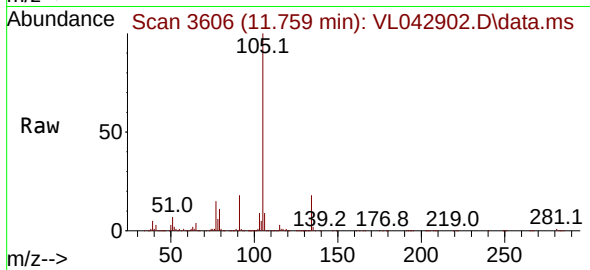
Tgt Ion: 91 Resp: 55458
Ion Ratio Lower Upper
91 100
126 17.6 14.2 21.4
128 5.9 5.0 7.6





#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

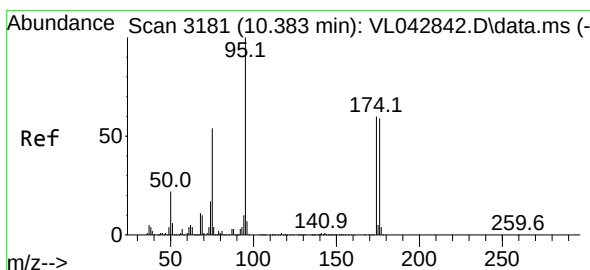
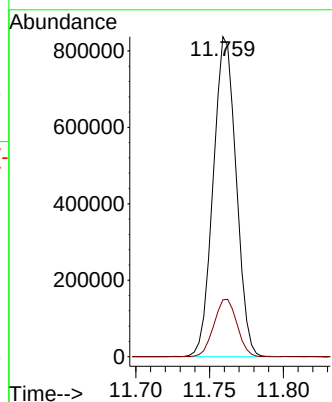
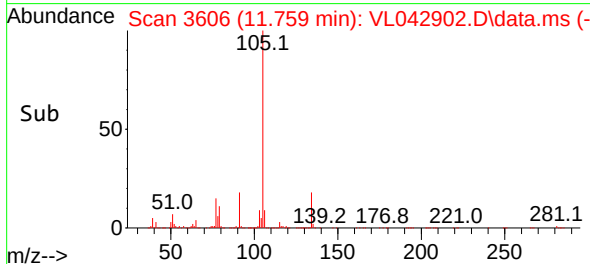
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



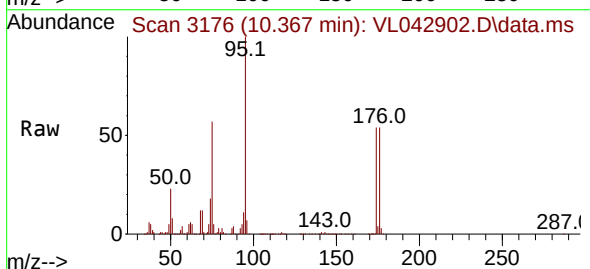
Tgt Ion:105 Resp: 90497
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.9 22.3

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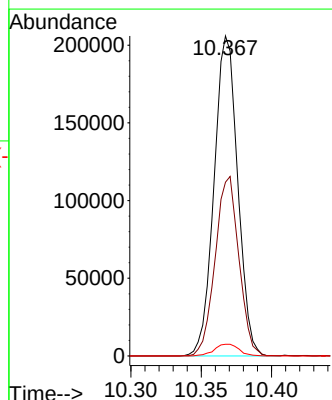
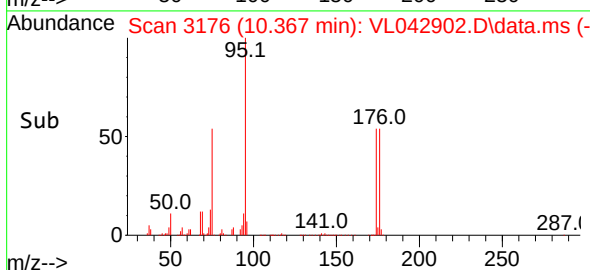
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

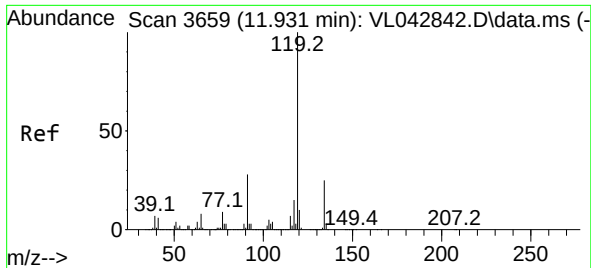


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.481 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35



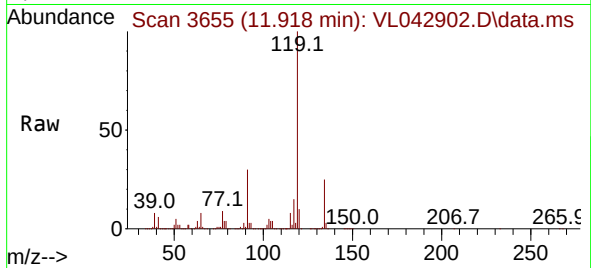
Tgt Ion: 95 Resp: 240840
 Ion Ratio Lower Upper
 95 100
 174 56.6 48.4 72.6
 175 3.8 3.8 5.8





#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

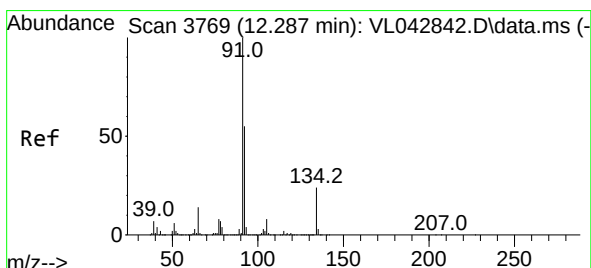
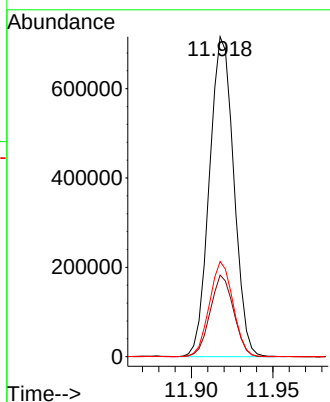
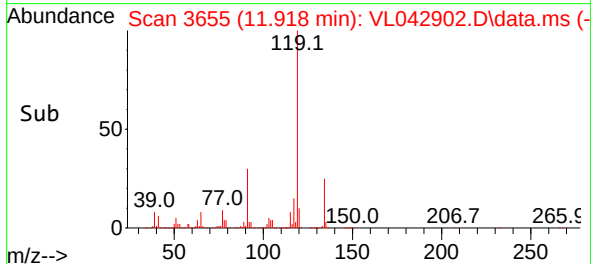
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01



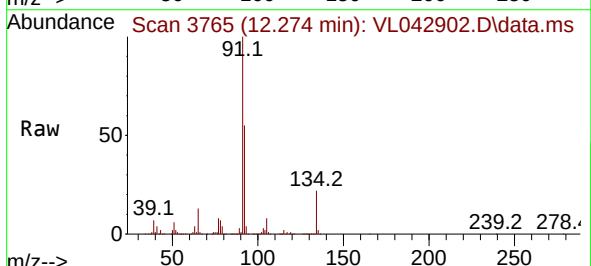
Tgt Ion:119 Resp: 743217
Ion Ratio Lower Upper
119 100
134 24.6 20.6 30.8
91 28.9 22.6 34.0

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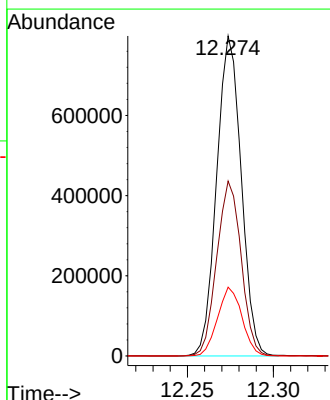
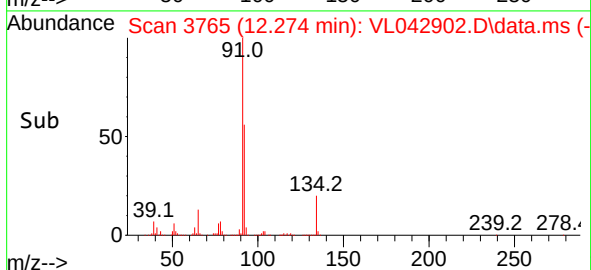
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

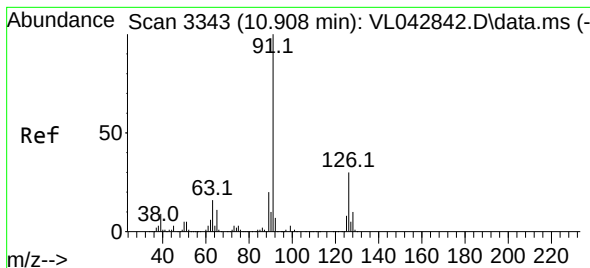


#70
n-Butylbenzene
Concen: 12.084 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35



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





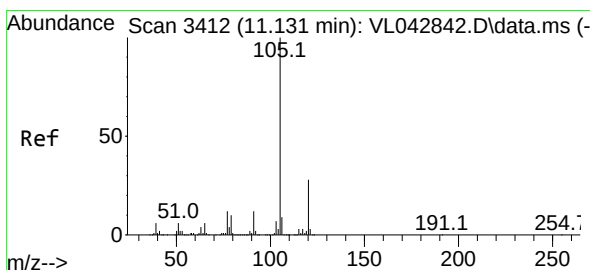
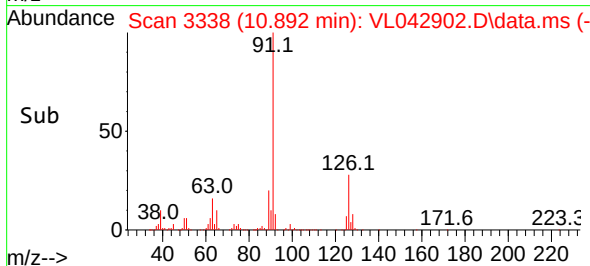
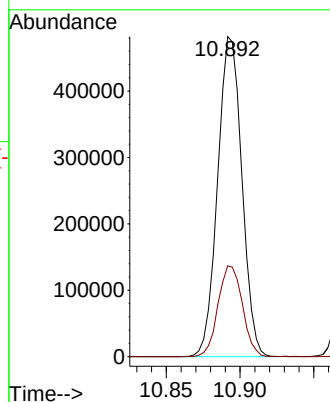
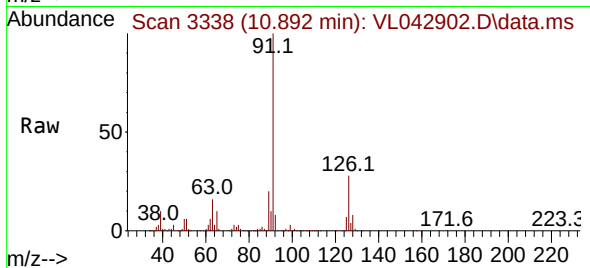
#71
2-Chlorotoluene
Concen: 11.398 ppbv
RT: 10.892 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 551398
Ion Ratio Lower Upper
91 100
126 28.5 12.0 47.8

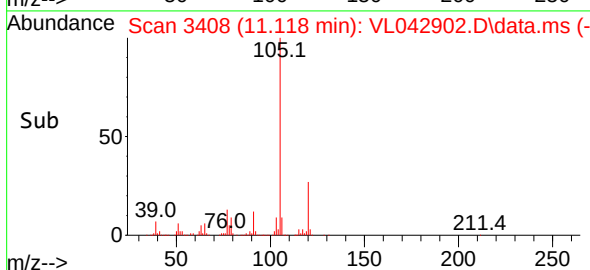
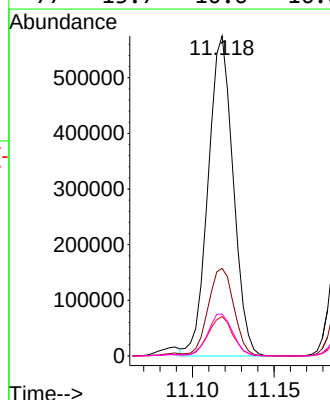
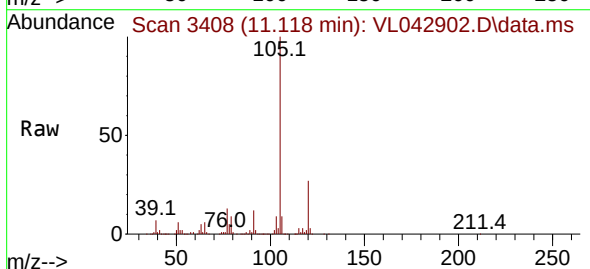
Manual Integrations
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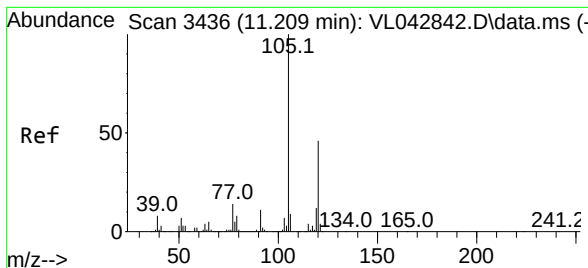
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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: 50522

Ion Ratio Lower Upper

105 100

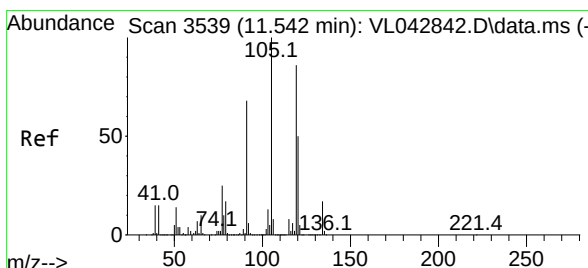
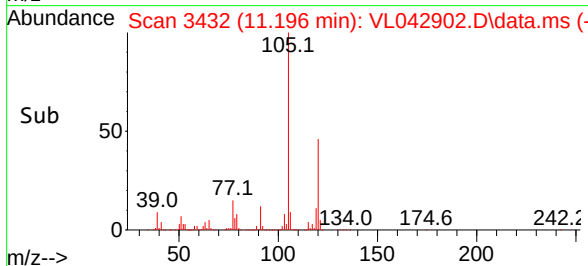
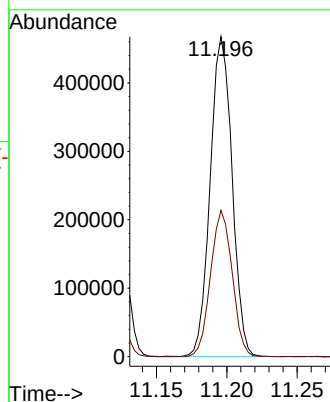
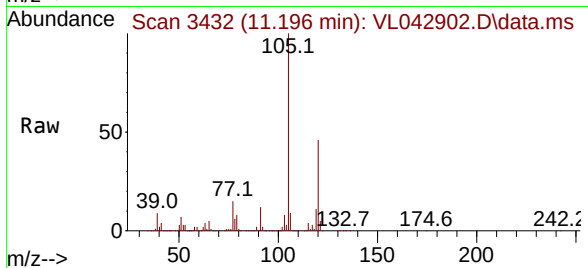
120 45.7 36.6 54.8

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: 11.668 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

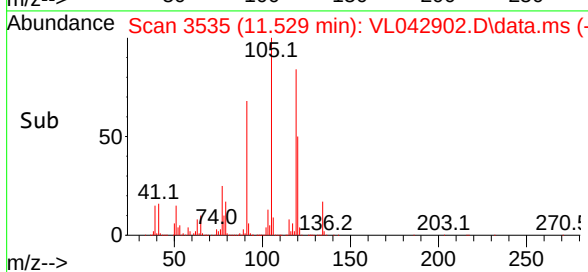
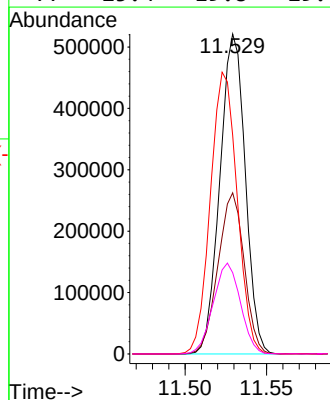
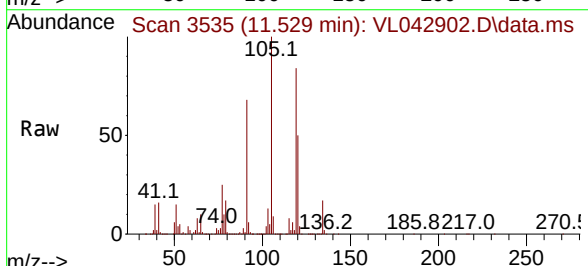
Ion Ratio Lower Upper

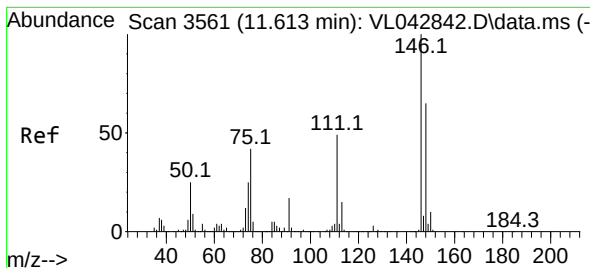
105 100

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 :

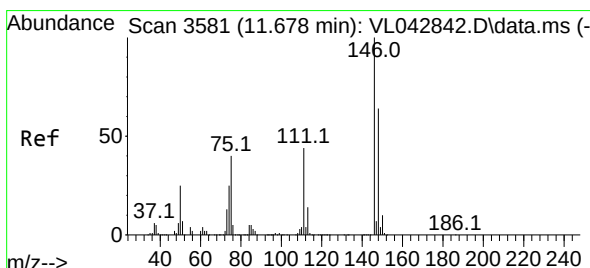
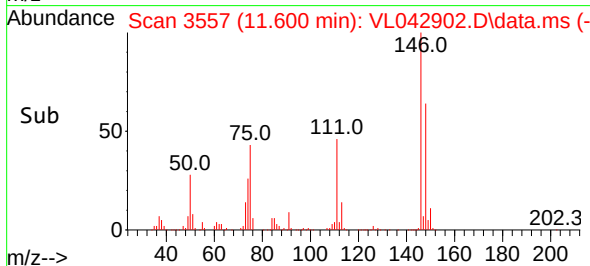
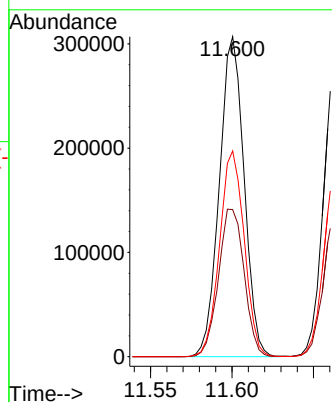
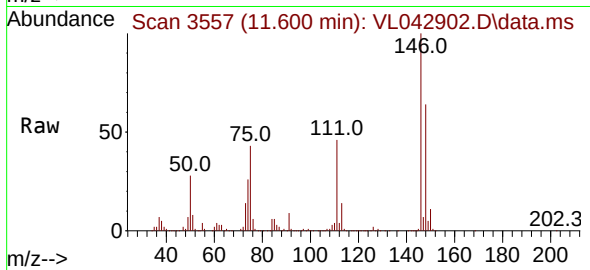
VL0908ABS01

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

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



#76

1,4-Dichlorobenzene

Concen: 11.563 ppbv

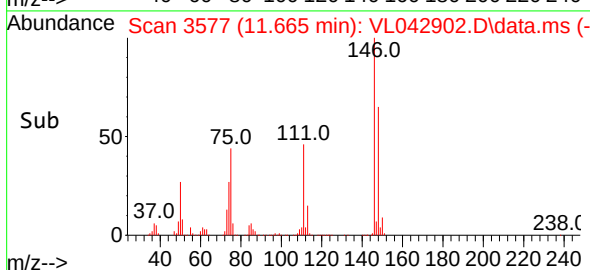
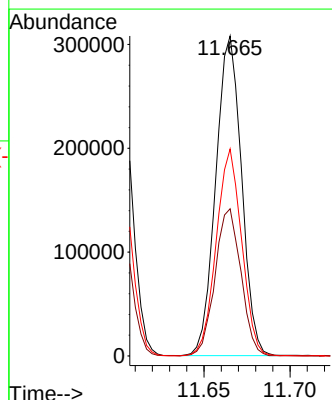
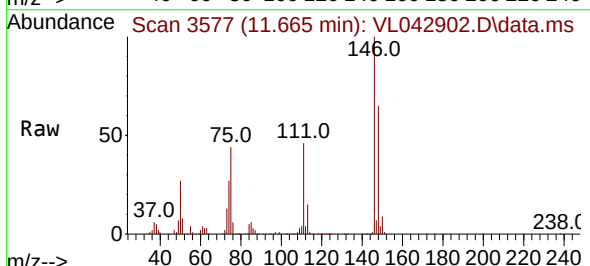
RT: 11.665 min Scan# 3577

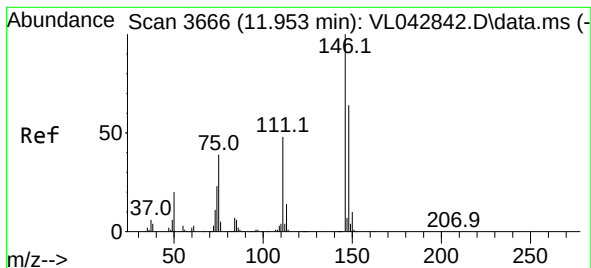
Delta R.T. 0.003 min

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

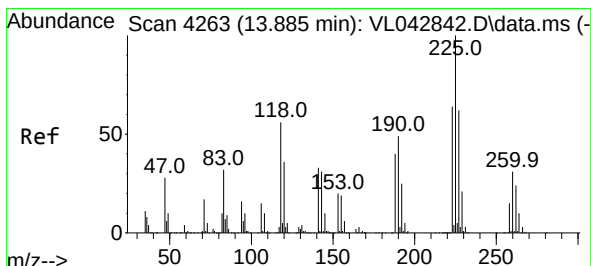
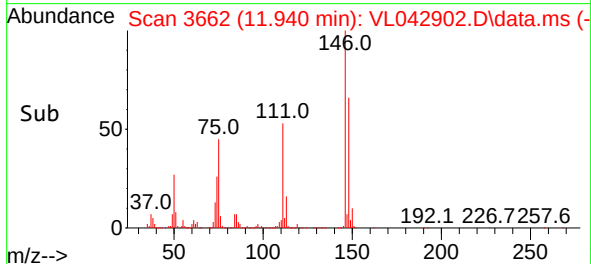
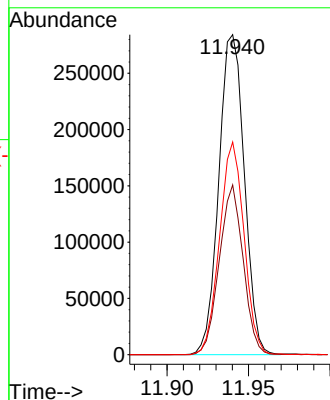
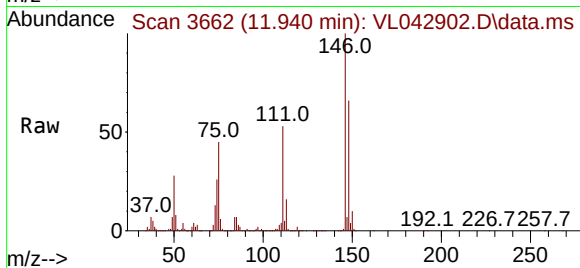
148 63.7 32.0 96.0

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

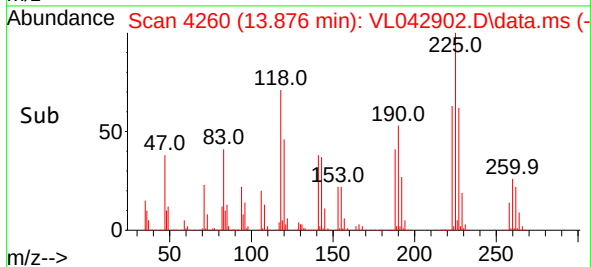
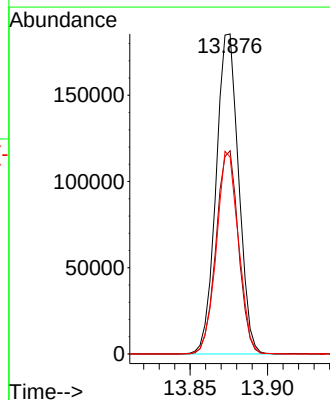
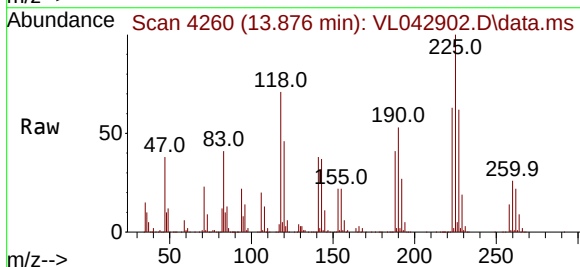
Tgt Ion:225 Resp: 187990

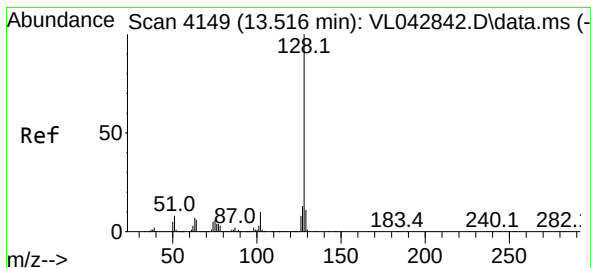
Ion Ratio Lower Upper

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

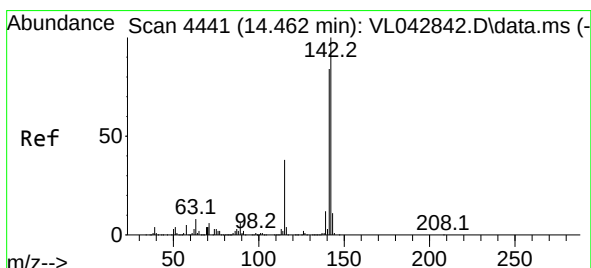
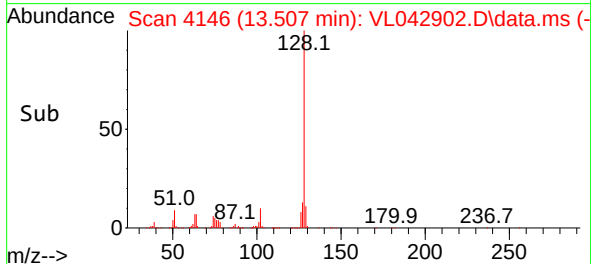
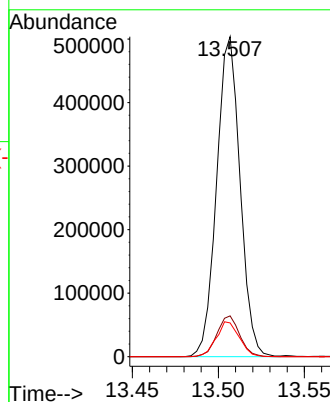
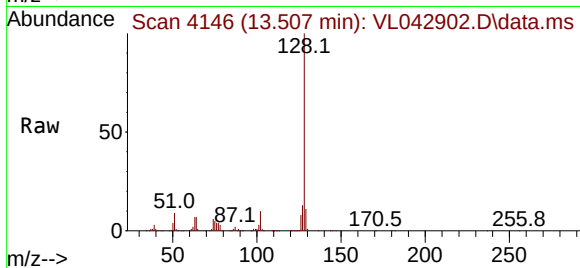
Tgt Ion:128 Resp: 47731

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.6	8.9	13.3

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#80

Naphthalene,2-methyl-

Concen: 8.713 ppbv

RT: 14.449 min Scan# 4437

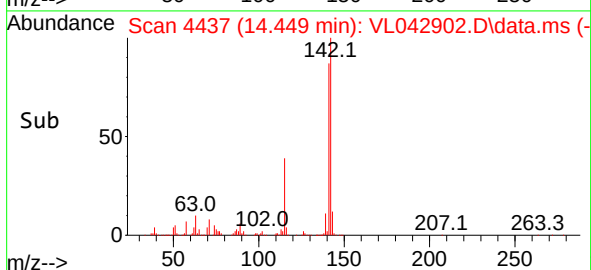
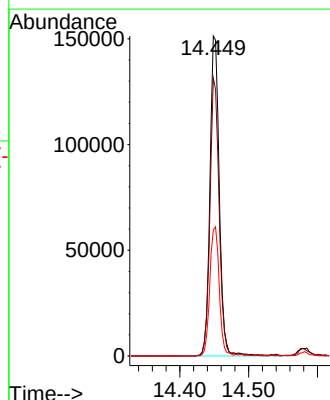
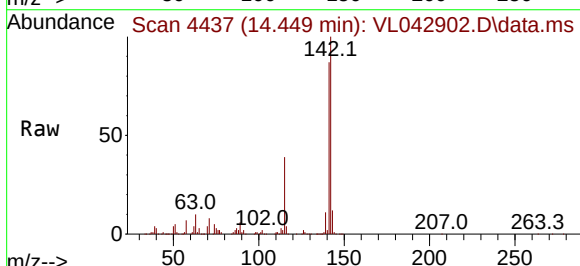
Delta R.T. -0.000 min

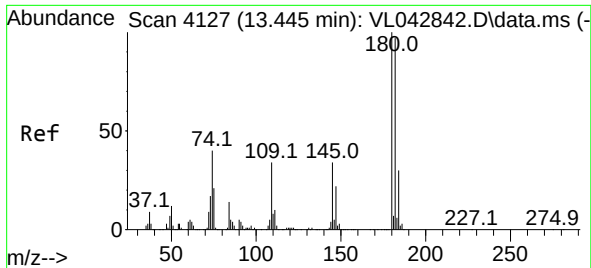
Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:142 Resp: 142381

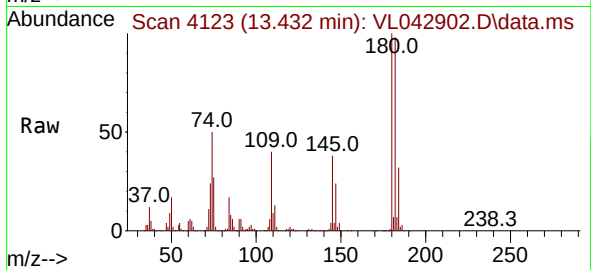
Ion	Ratio	Lower	Upper
142	100		
141	85.9	67.0	100.6
115	41.3	30.9	46.3





#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

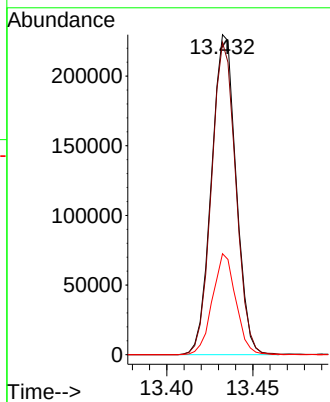
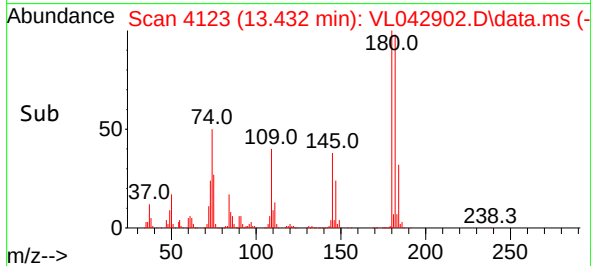
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01



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

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 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.:	Q3037
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
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Reviewed By :Semsettin Yesilyurt 09/09/2025
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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 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

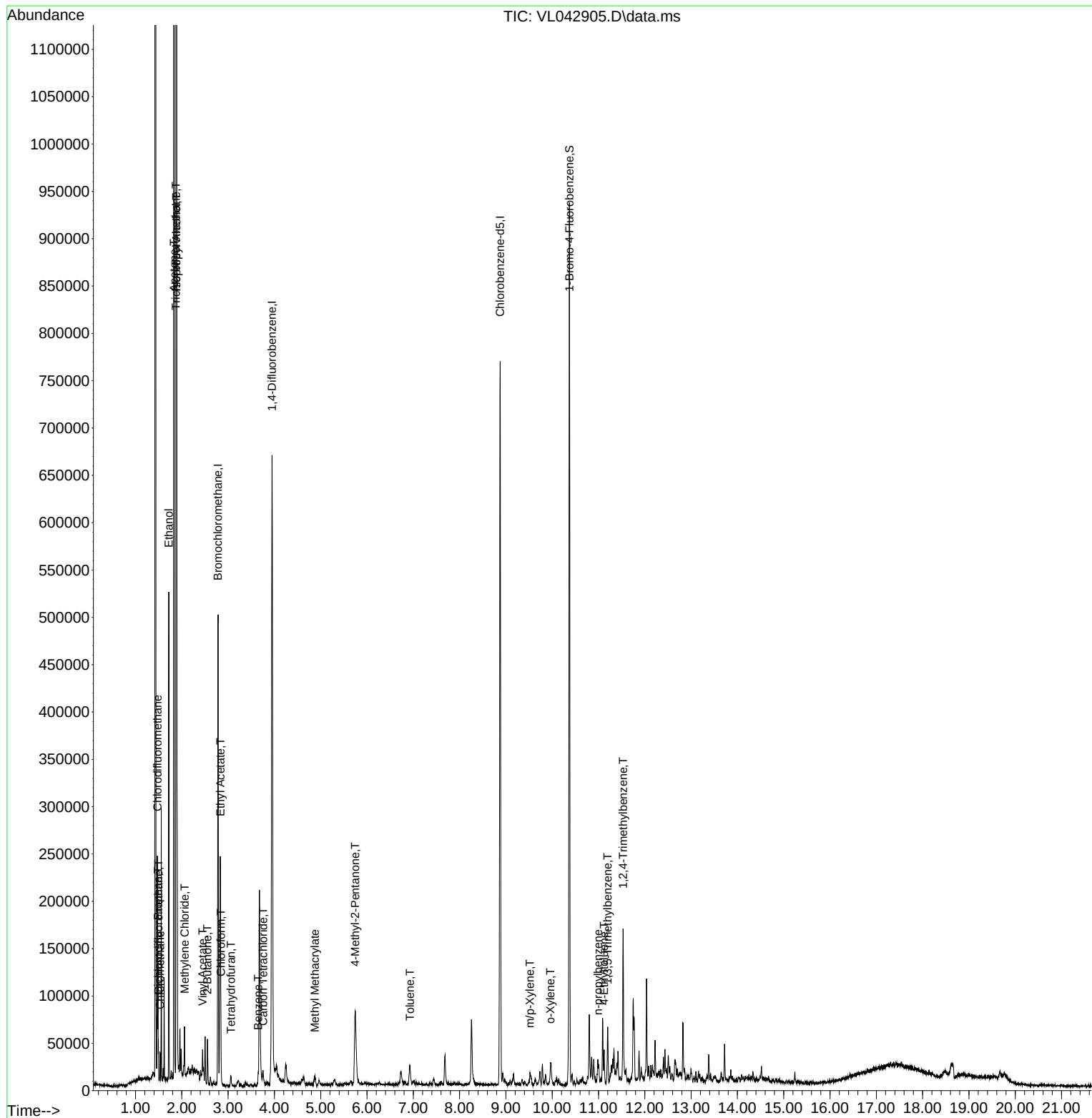
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

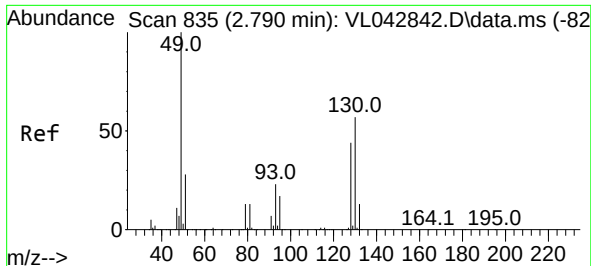
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

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

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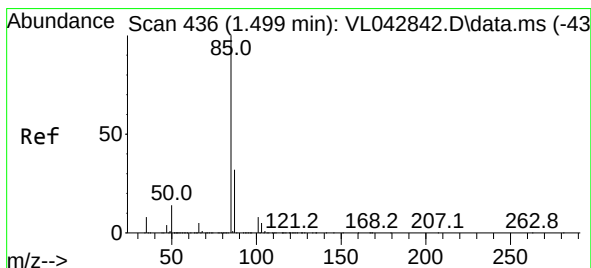
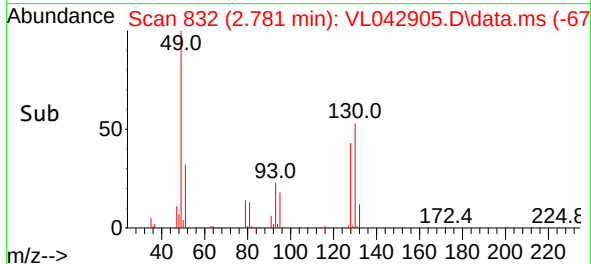
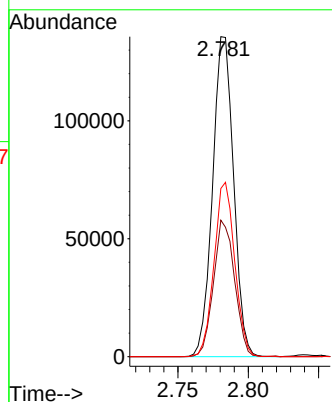
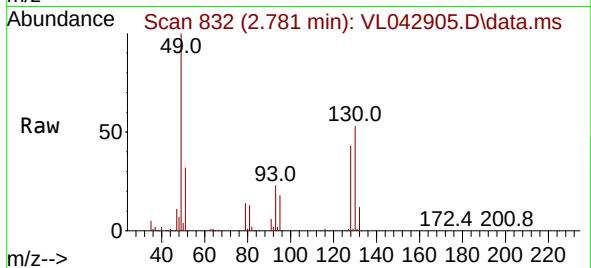
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. 0.004 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

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

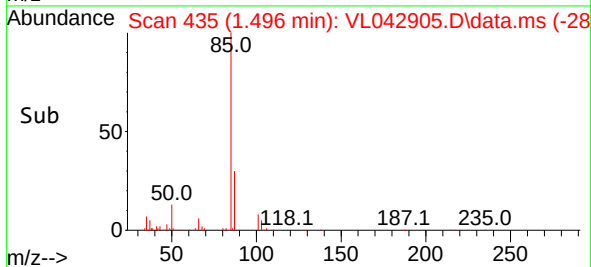
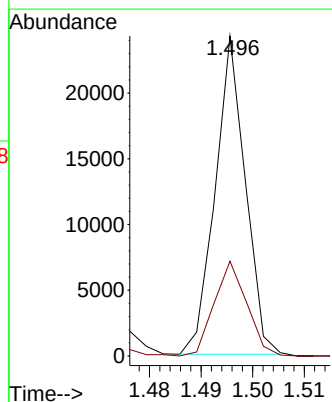
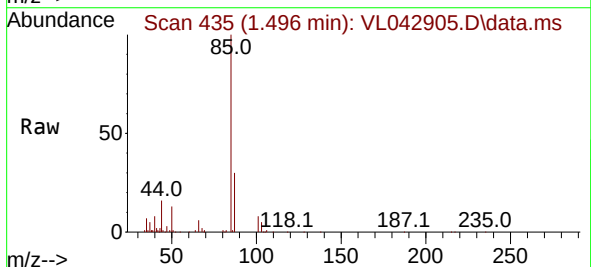
Manual Integrations
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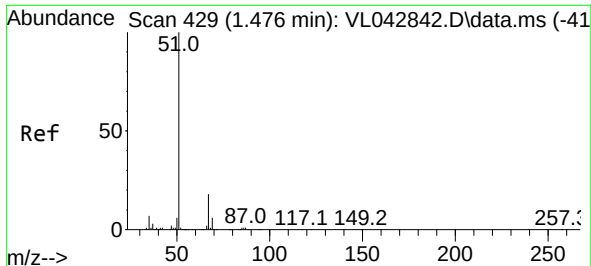
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

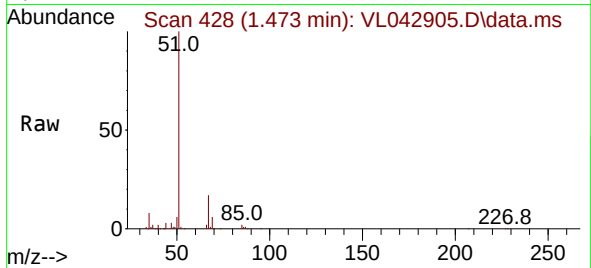
Tgt Ion: 85 Resp: 9819
Ion Ratio Lower Upper
85 100
87 29.8 25.3 37.9





#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

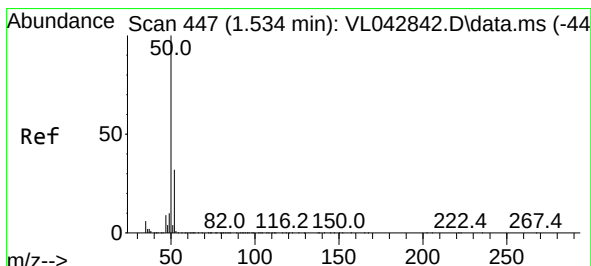
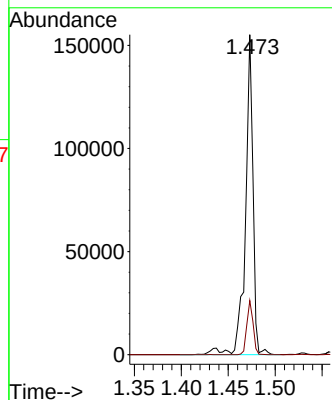
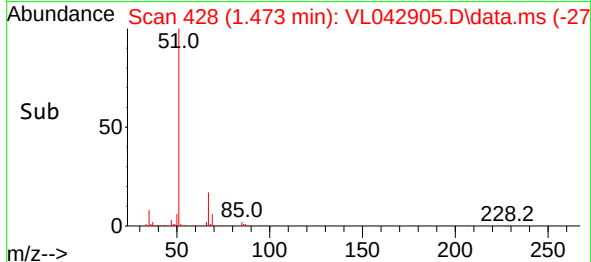
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



Tgt Ion: 51 Resp: 8666
Ion Ratio Lower Upper
51 100
67 14.0 14.9 22.3

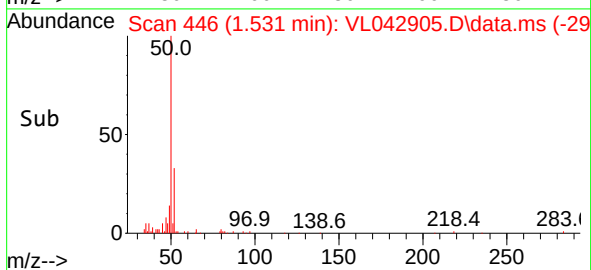
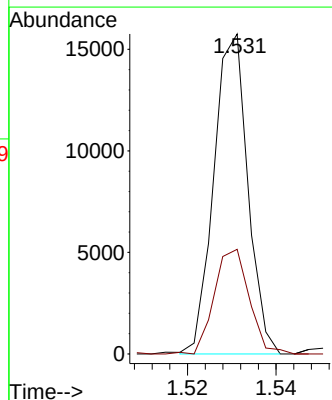
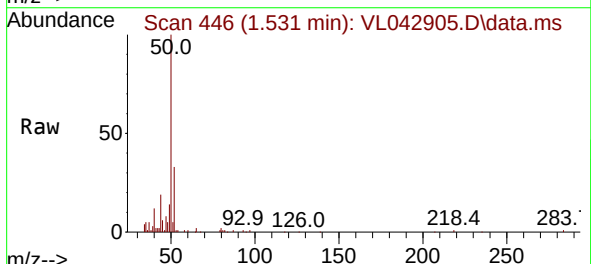
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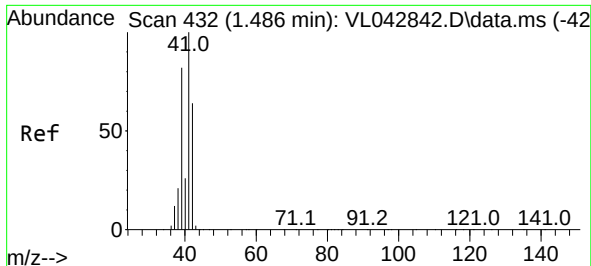
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

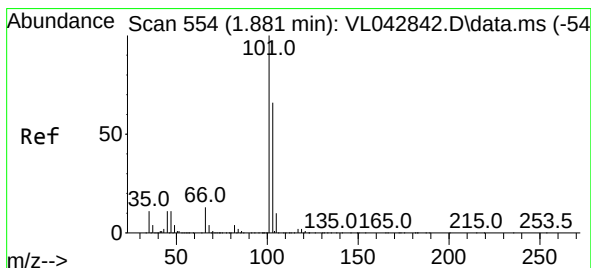
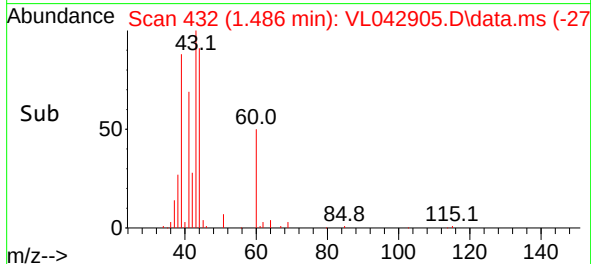
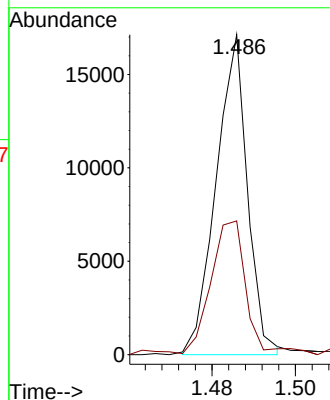
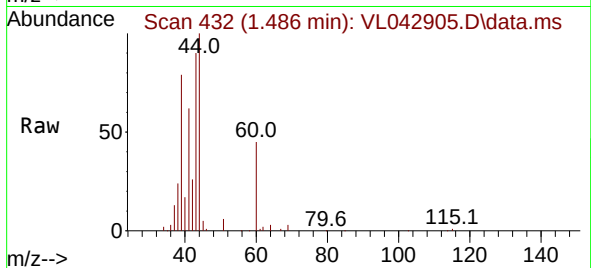
42 1680.7 53.0 79.4

Manual Integrations

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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

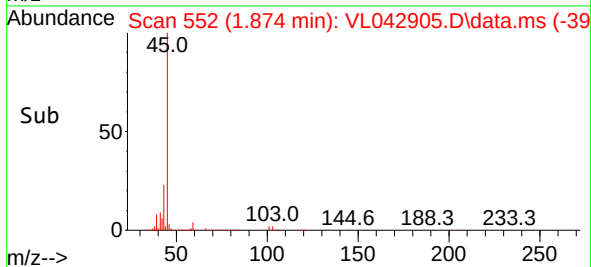
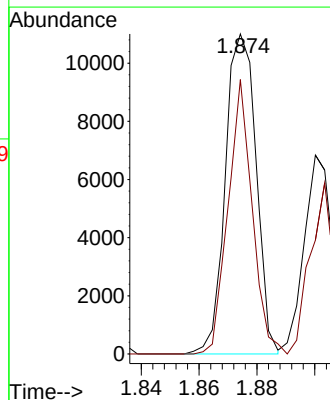
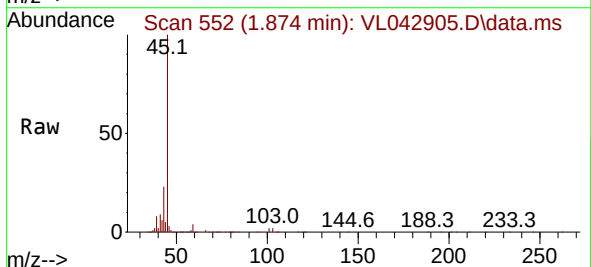
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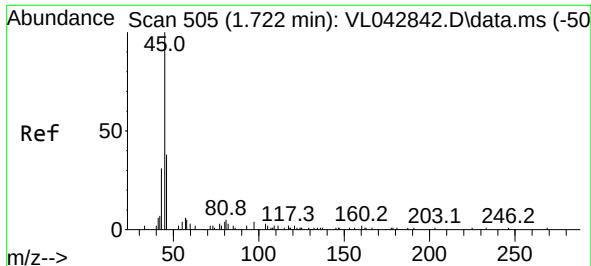
Tgt Ion:101 Resp: 8119

Ion Ratio Lower Upper

101 100

103 85.8 52.5 78.7#





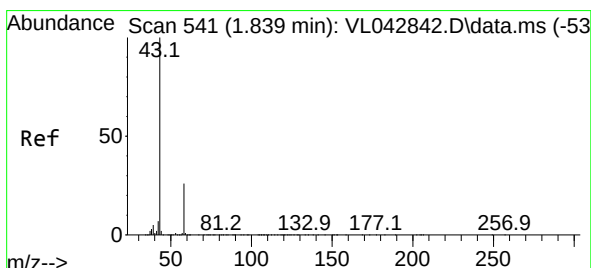
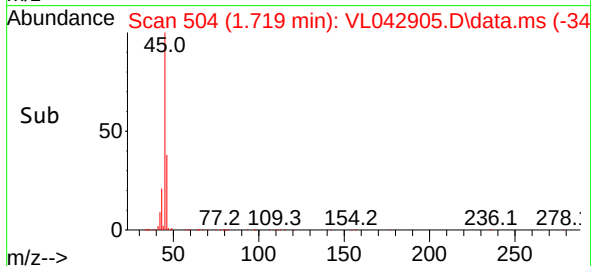
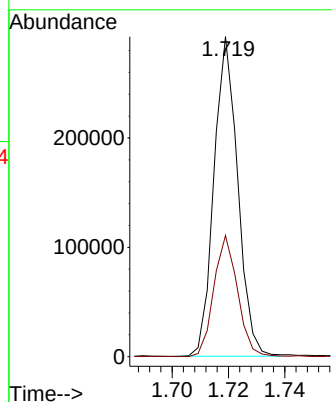
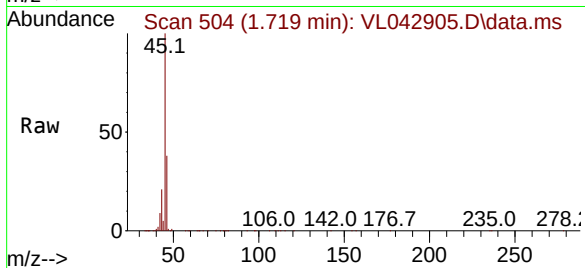
#13
Ethanol
Concen: 189.695 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 45 Resp: 171360
Ion Ratio Lower Upper
45 100
46 38.4 17.5 69.9

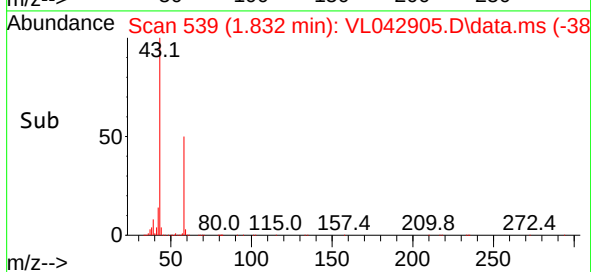
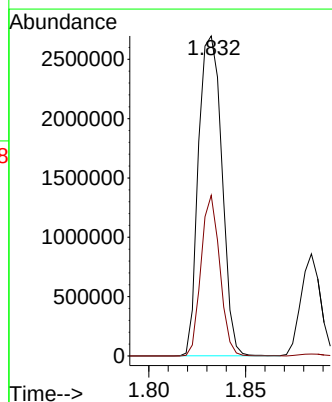
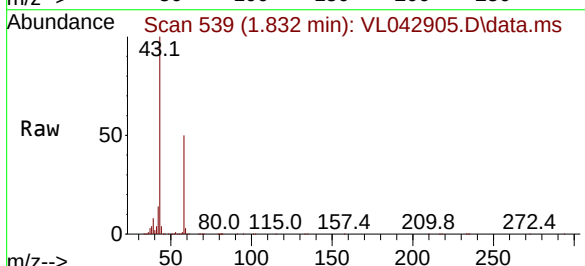
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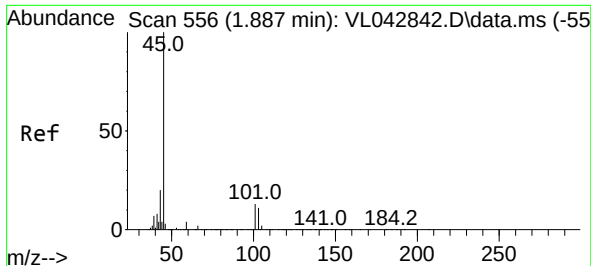
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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#





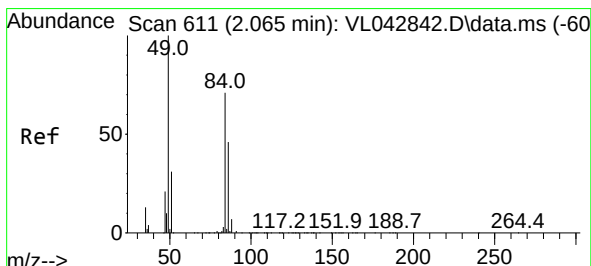
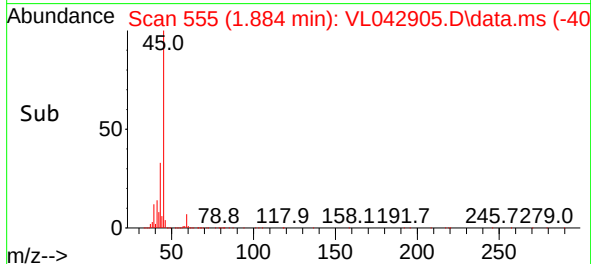
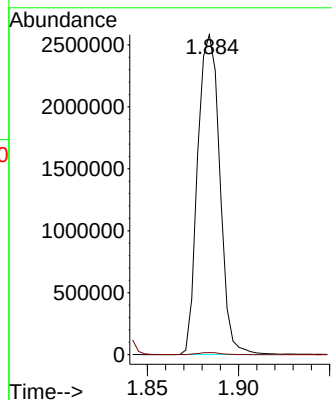
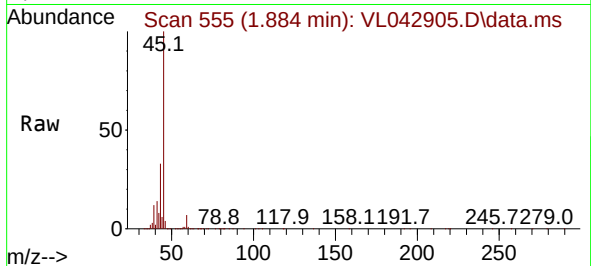
#19
Isopropyl Alcohol
Concen: 195.618 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 45 Resp: 2182649
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

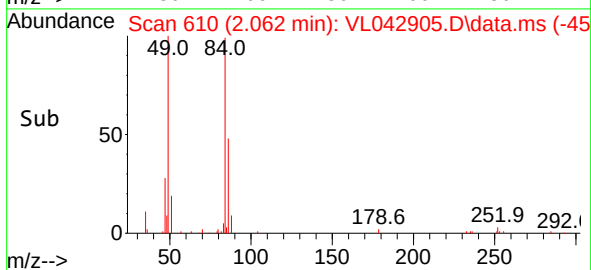
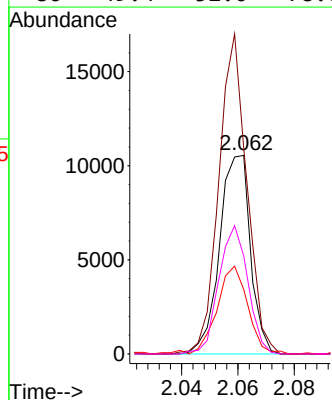
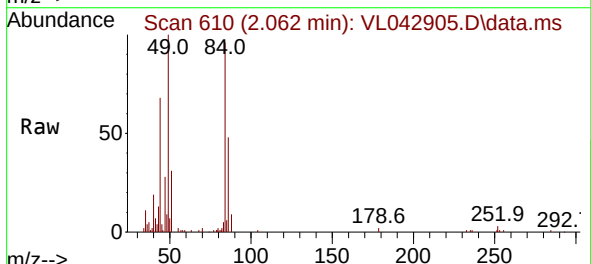
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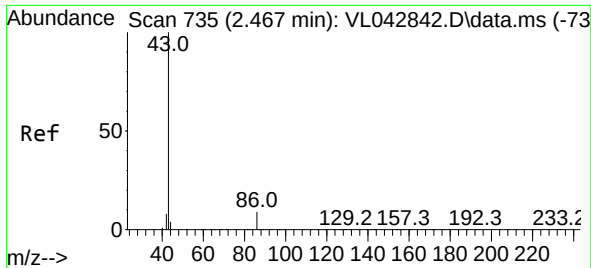
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

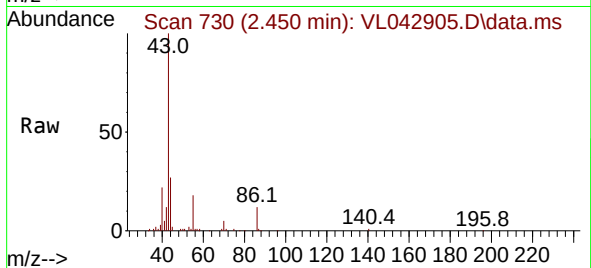
Tgt Ion: 84 Resp: 8047
Ion Ratio Lower Upper
84 100
49 102.7 112.3 168.5#
51 30.7 36.0 54.0#
86 49.4 52.0 78.0#





#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

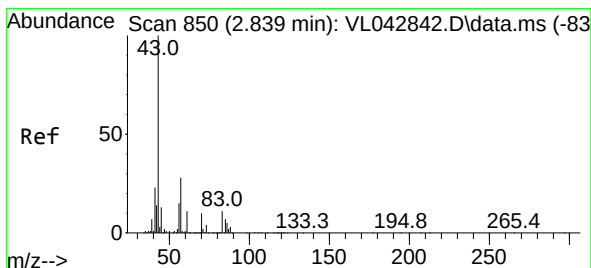
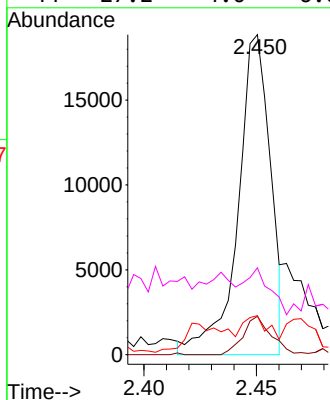
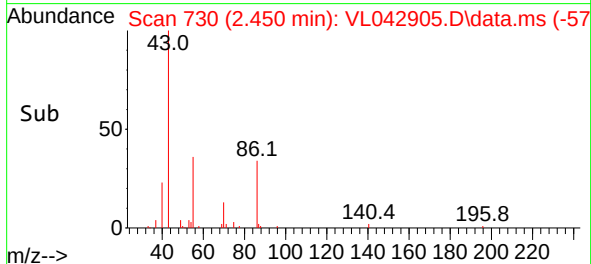
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP



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

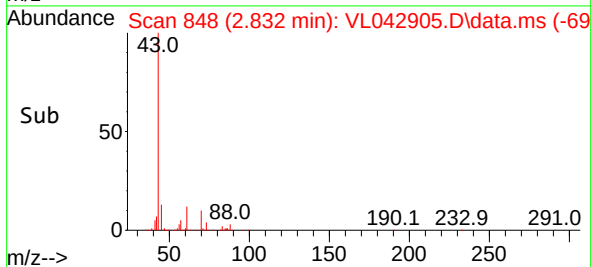
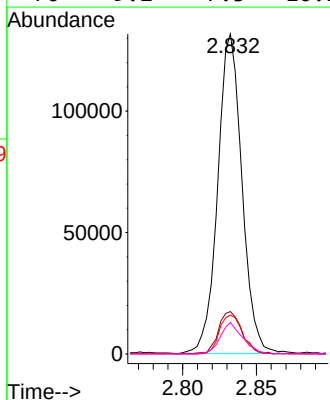
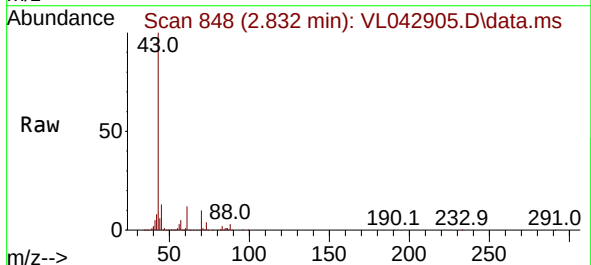
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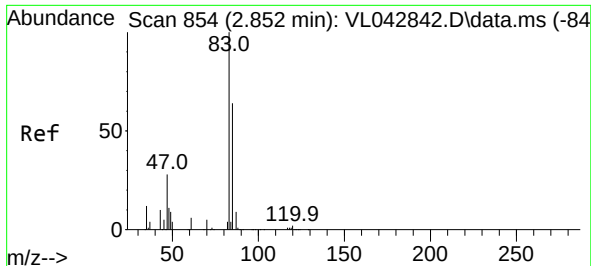
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#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

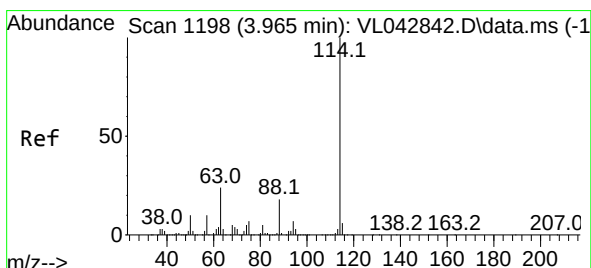
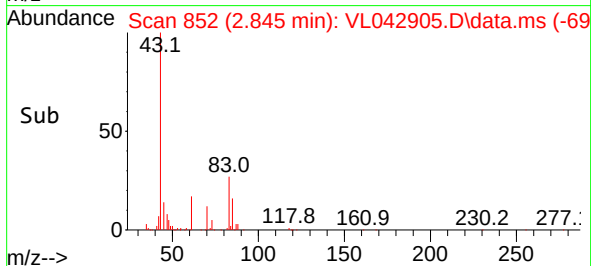
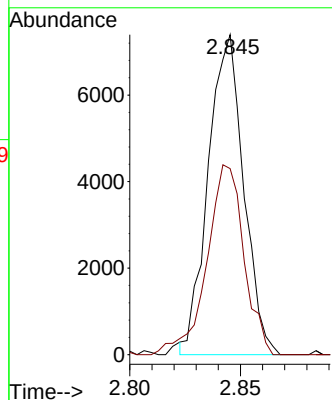
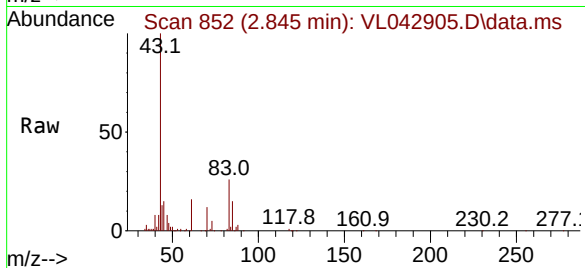
85 58.1 51.1 76.7

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

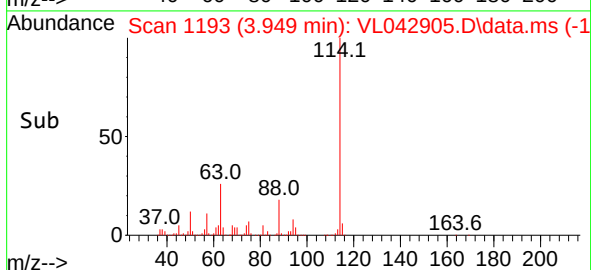
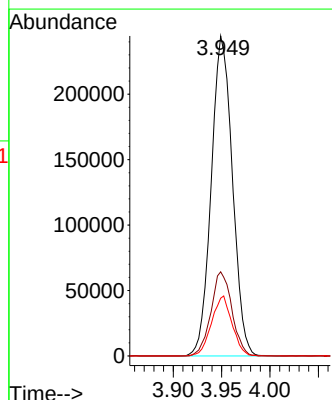
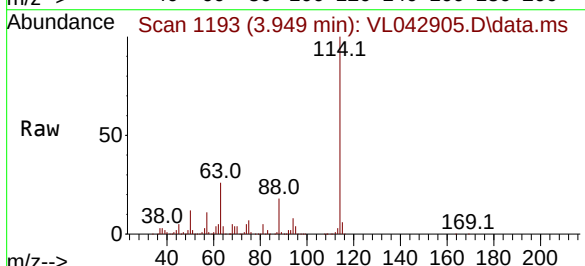
Tgt Ion:114 Resp: 372044

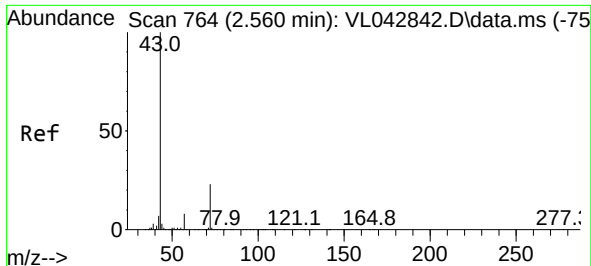
Ion Ratio Lower Upper

114 100

63 26.1 19.7 29.5

88 18.1 14.4 21.6





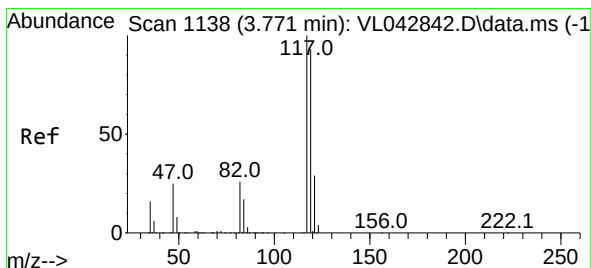
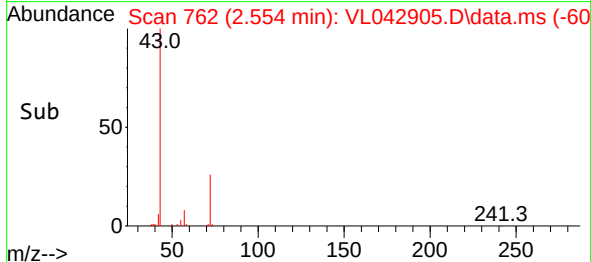
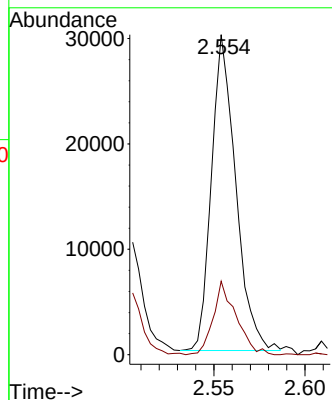
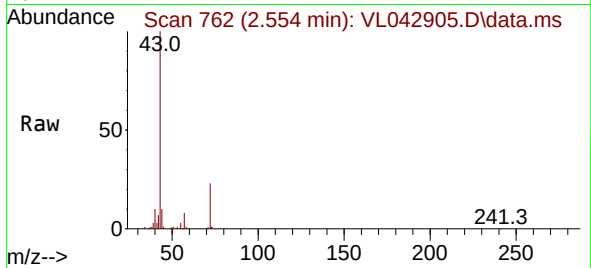
#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 27690
Ion Ratio Lower Upper
43 100
72 21.9 18.6 28.0

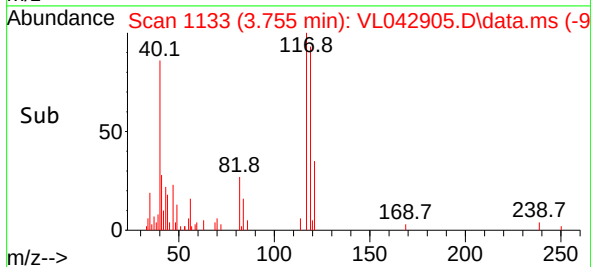
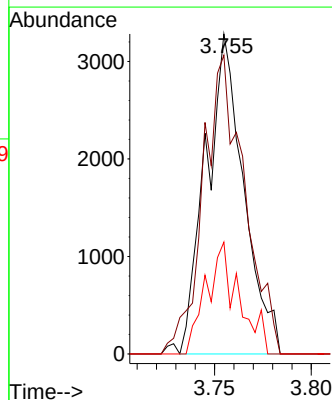
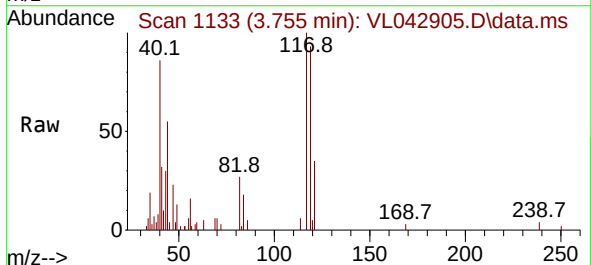
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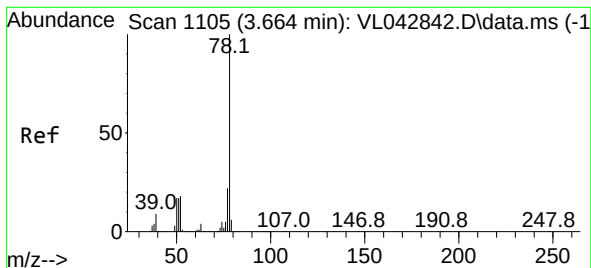
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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 :

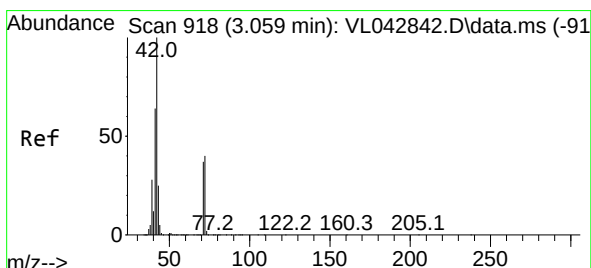
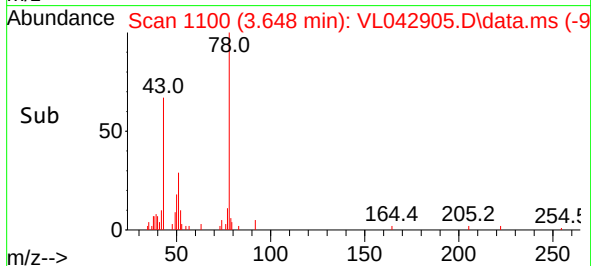
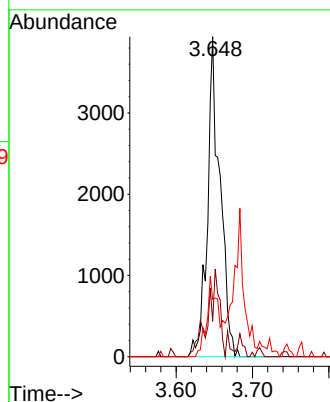
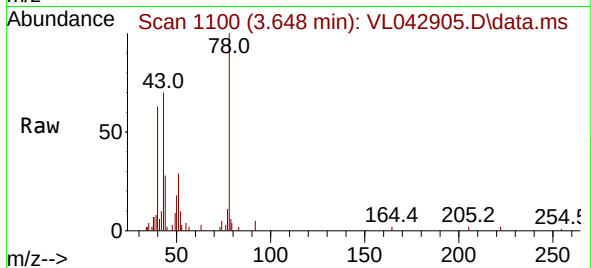
IA-2DUP

Tgt Ion: 78	Resp: 449
Ion Ratio	Lower Upper
78 100	
77 11.0	17.7 26.5
50 17.9	13.9 20.9

Manual Integrations

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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

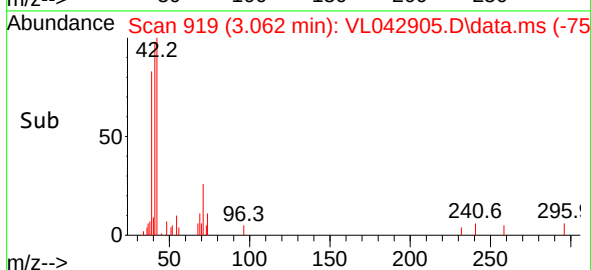
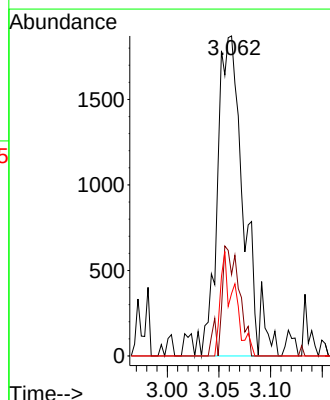
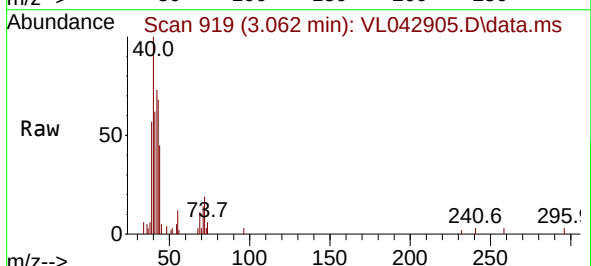
RT: 3.062 min Scan# 919

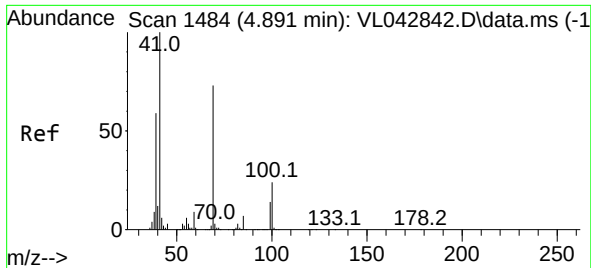
Delta R.T. 0.019 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

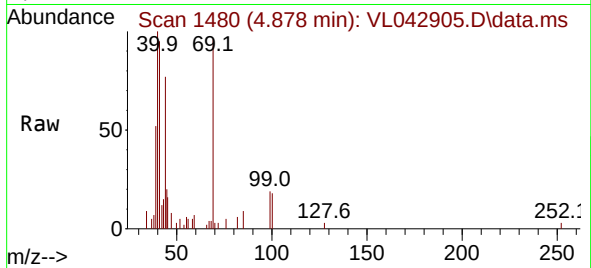
Tgt Ion: 42	Resp: 3374
Ion Ratio	Lower Upper
42 100	
72 22.9	32.6 48.8#
71 17.3	30.0 45.0#





#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

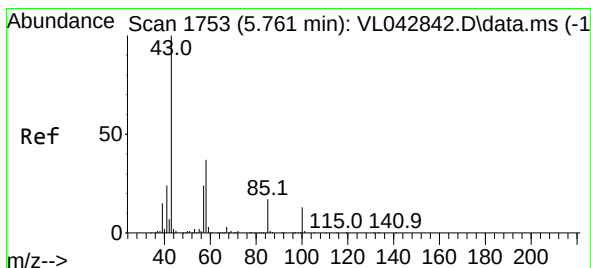
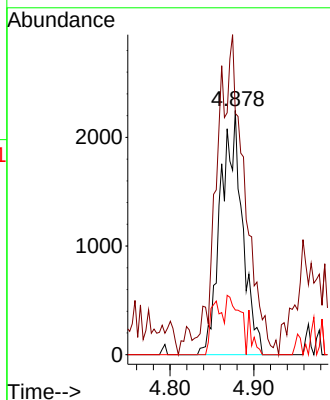
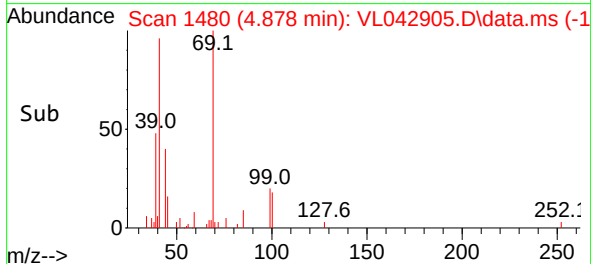
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



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

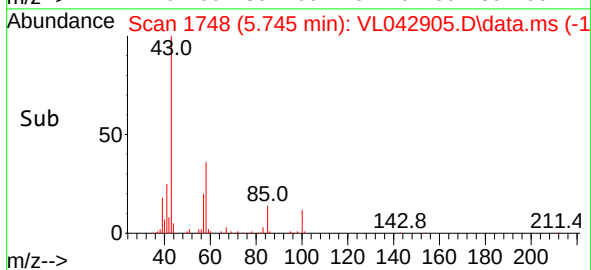
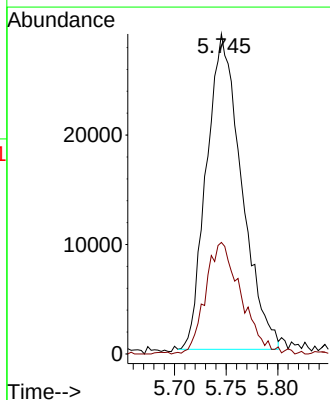
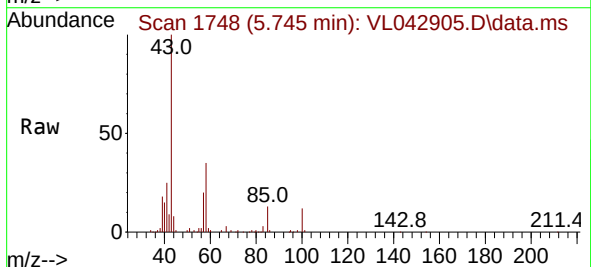
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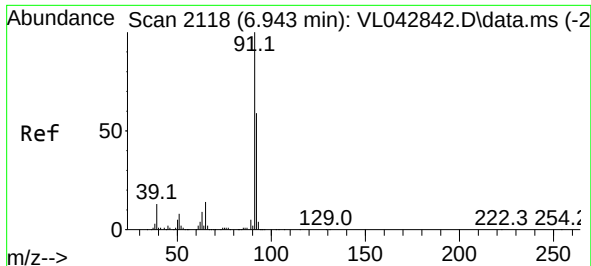
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





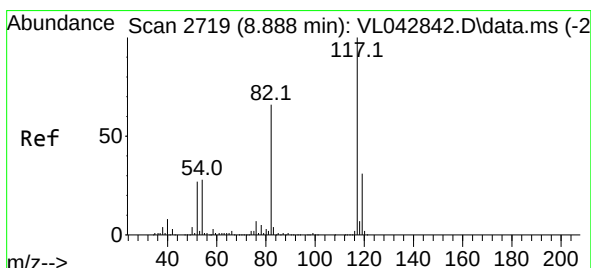
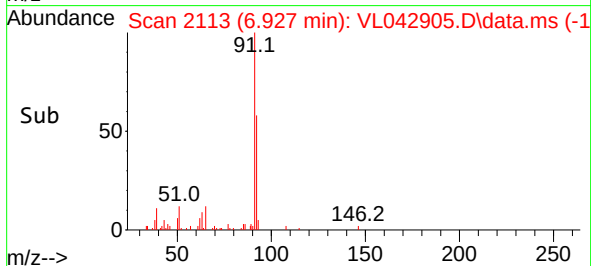
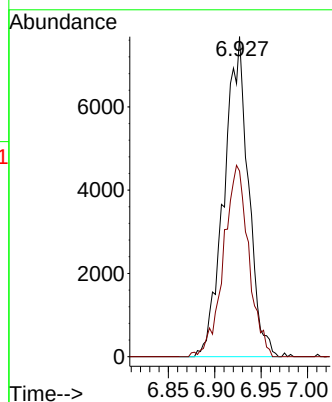
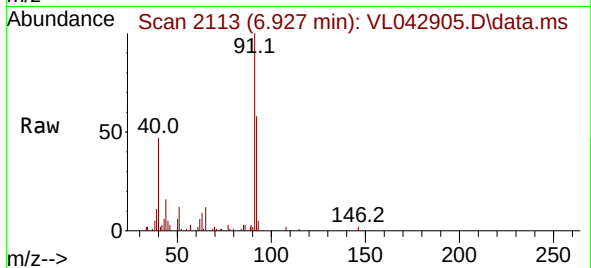
#53
Toluene
Concen: 0.332 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 1404
Ion Ratio Lower Upper
91 100
92 61.8 47.8 71.6

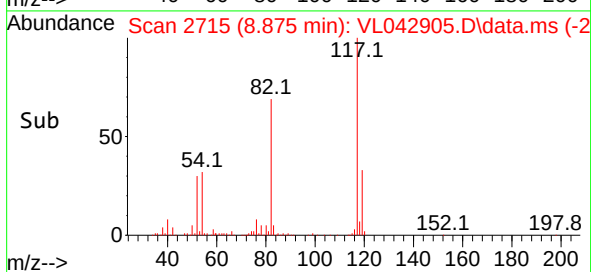
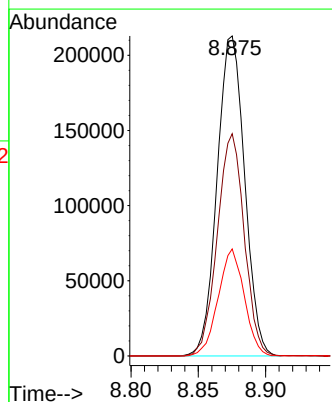
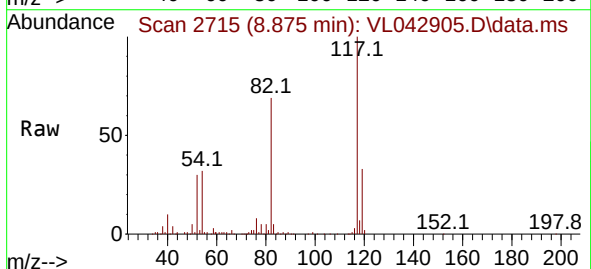
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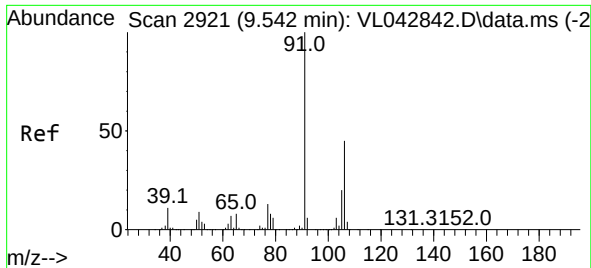
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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





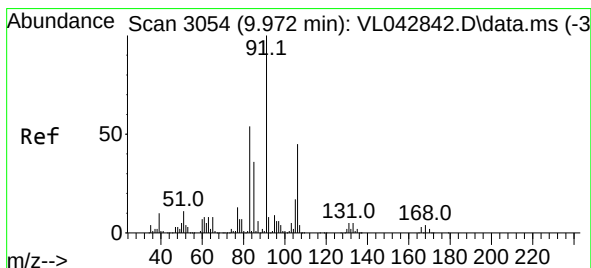
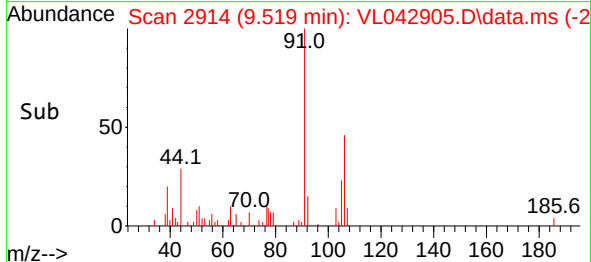
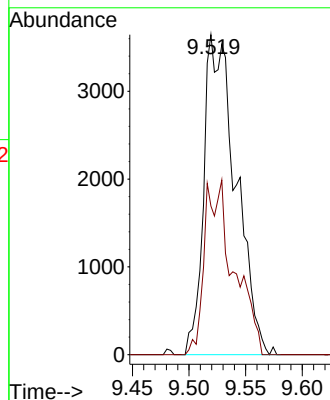
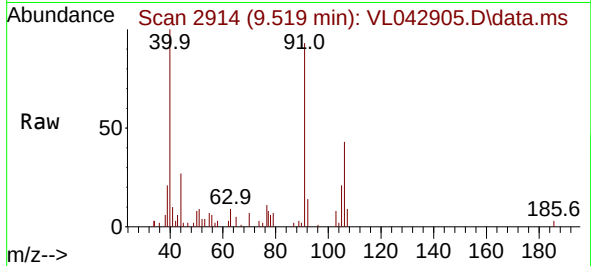
#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 717
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

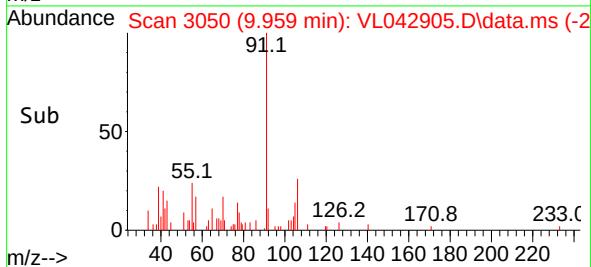
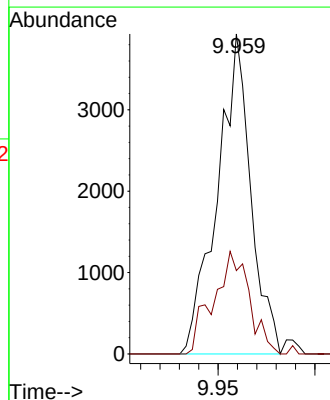
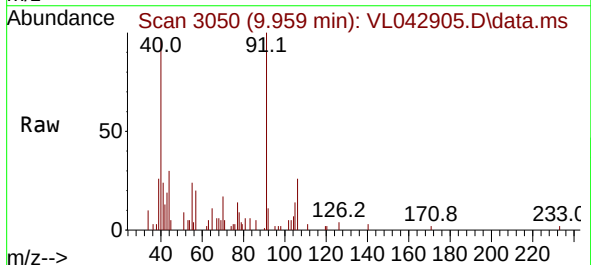
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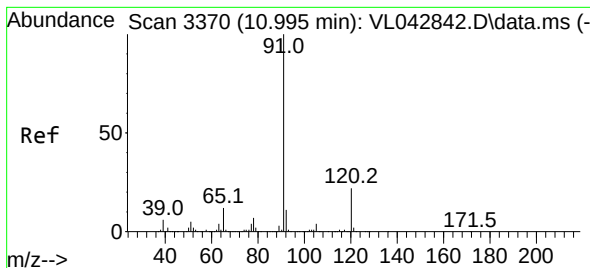
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

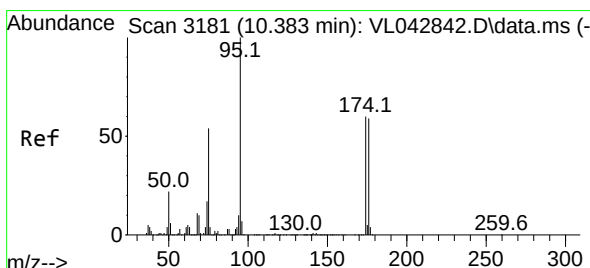
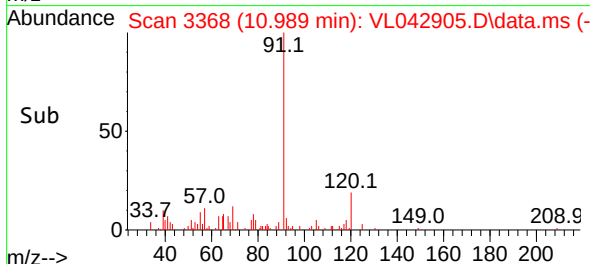
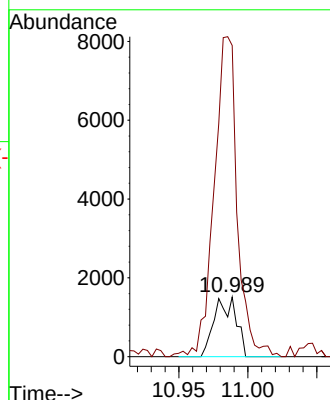
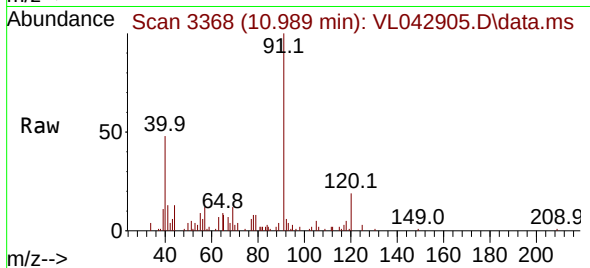
91 573.7 375.8 563.6

Manual Integrations

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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

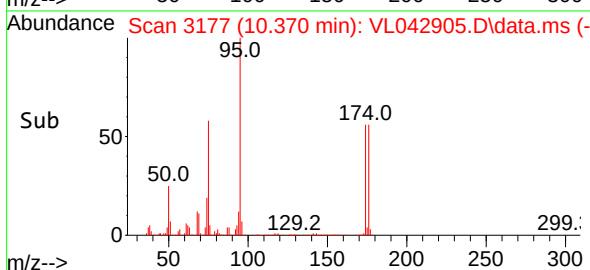
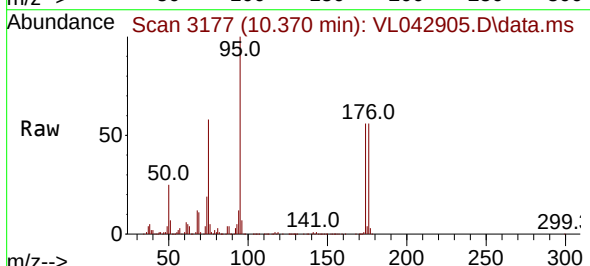
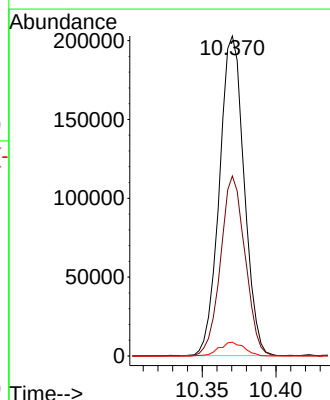
Tgt Ion: 95 Resp: 235889

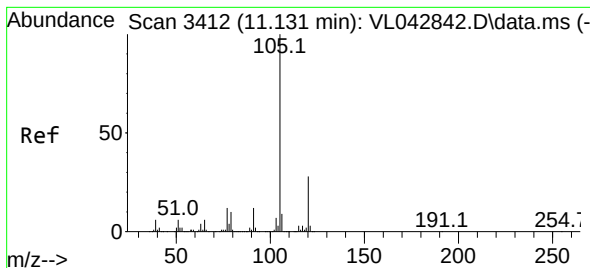
Ion Ratio Lower Upper

95 100

174 56.1 48.4 72.6

175 4.4 3.8 5.8





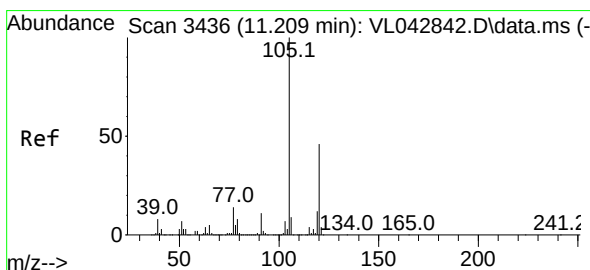
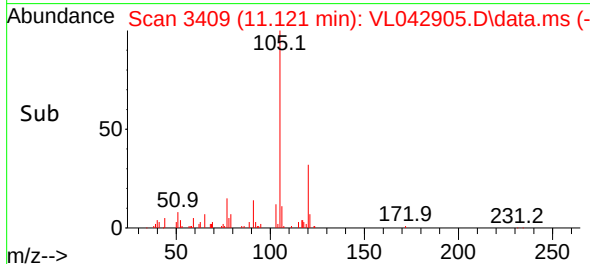
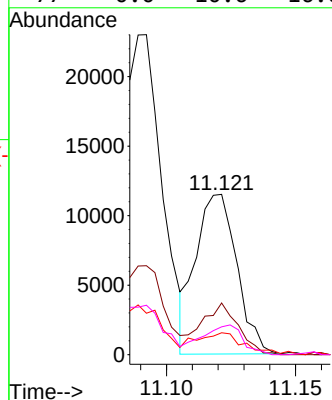
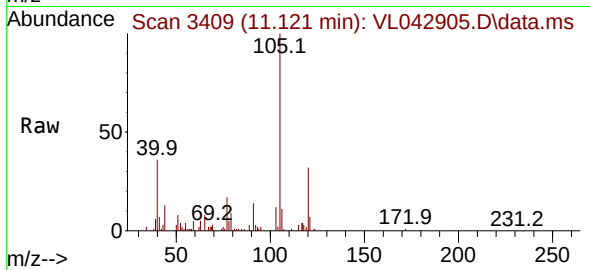
#72
4-Ethyltoluene
Concen: 0.248 ppbv
RT: 11.121 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

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

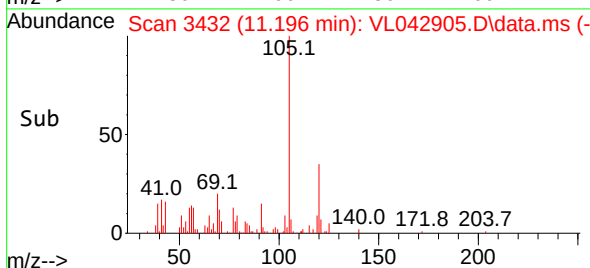
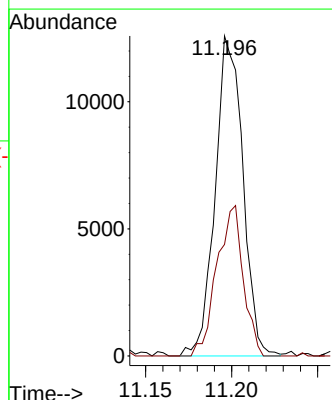
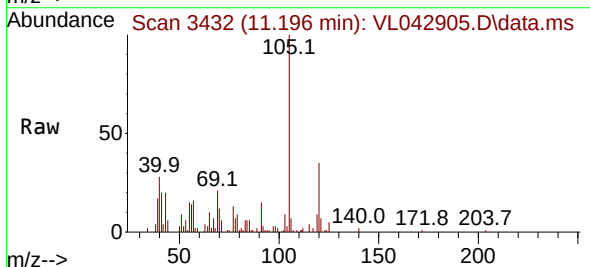
Manual Integrations
APPROVED

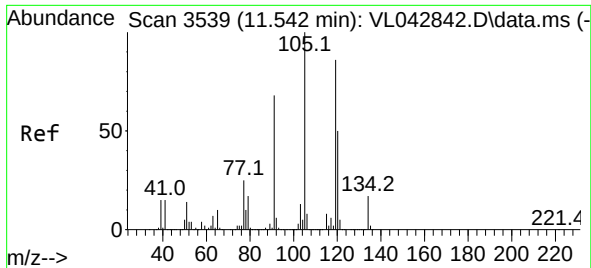
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#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

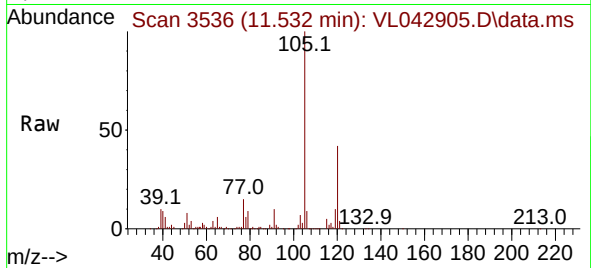
Tgt Ion:105 Resp: 14080
Ion Ratio Lower Upper
105 100
120 34.8 36.6 54.8





#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

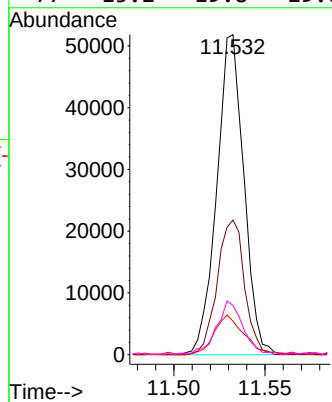
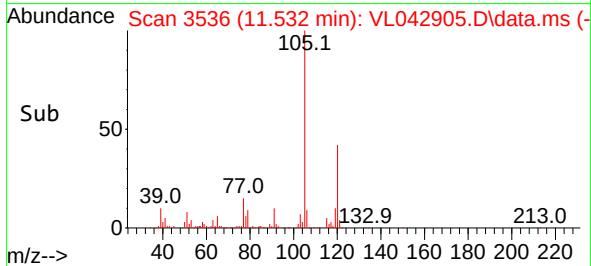
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



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



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

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
VSTDC0010	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
Q3037-01	VL042904.D	4-Methyl-2-Pentanone	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Benzene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Carbon Tetrachloride	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	m/p-Xylene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Methyl Methacrylate	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	n-propylbenzene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Propene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Trichlorofluoromethane	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Vinyl Acetate	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 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

Manual Integration Report

Sequence:

vl090825

Instrument

MSVOA_I

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

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					

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	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					

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	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	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 : Q3037

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

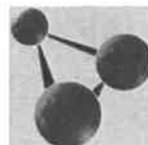
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

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:

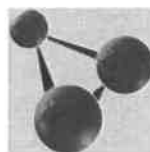
Signature:

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:

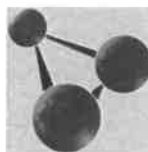
Date: 04/16/2025



*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	

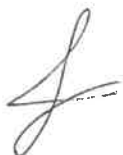
NOTES: **Blend Tolerance:** +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: 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 : Q3037

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/09/2025	B2508049	Q3037-01	-10.8	10608	6 L	10640		C2508001	VL042828.D Seq :VL080725 TUNE : VL042823.D ICAL : VL042752.D CCAL : VL042824.D MB : VL042825.D



Canister Cleaning

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

Canister Batch : C2508001

Type of Canister : 6 L

Cleaning Date : 08/04/2025

Analyst : SAM

Oven Temperature : 125.0 c

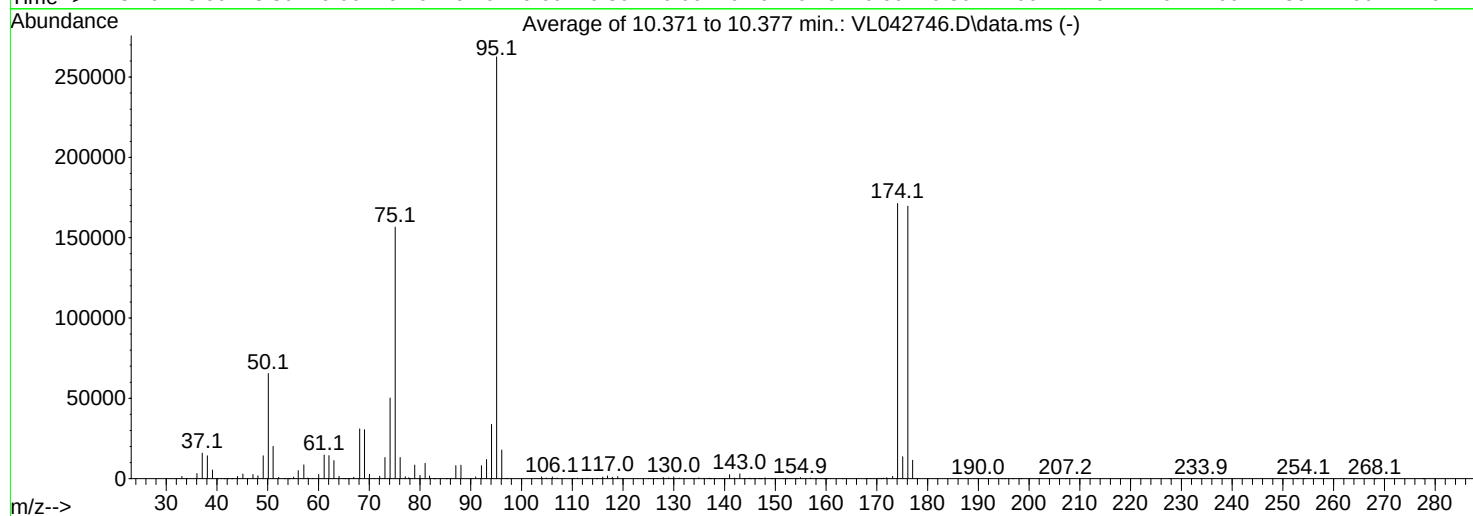
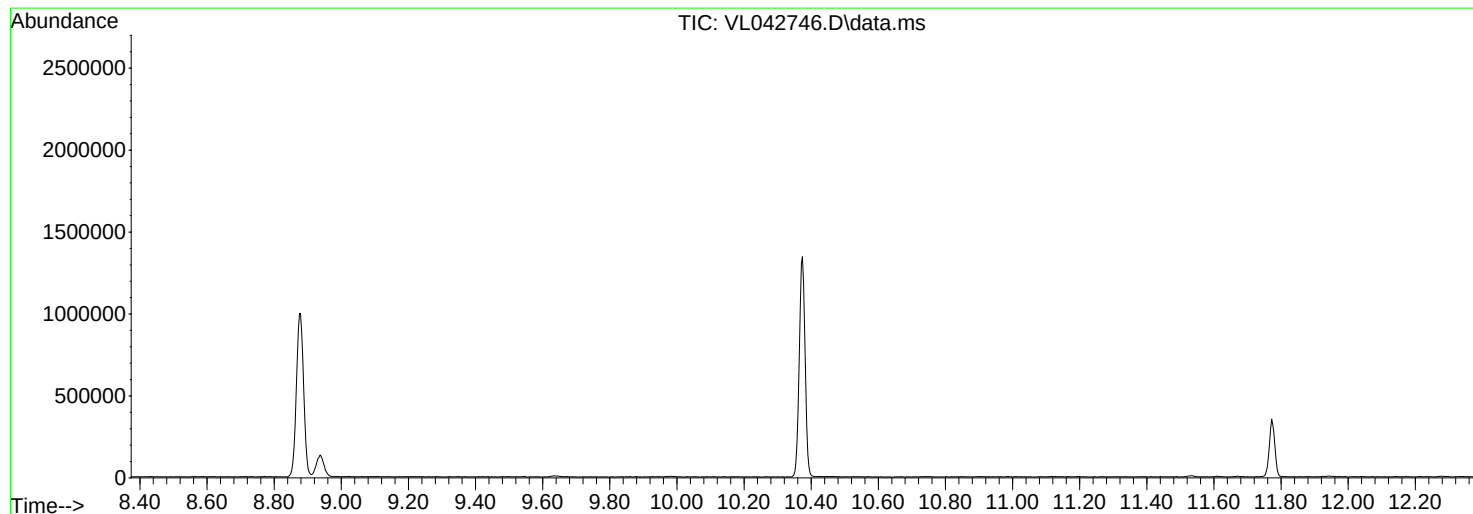
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10332	-30	08/05/2025	08/07/2025	-30	08/06/2025		10608	VL042828.D
10300	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q2887-02	10608	VL042828.D
10608	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q3037-01	10608	VL042828.D
10158	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q2887-01	10608	VL042828.D
10445	-30	08/05/2025	08/07/2025	-30	08/06/2025		10608	VL042828.D
10595	-30	08/05/2025	08/07/2025	-30	08/06/2025		10608	VL042828.D
10320	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q3039-01	10608	VL042828.D
10607	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q2887-03	10608	VL042828.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042746.D
Acq On : 23 Jul 2025 08:00
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\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.9	65392	PASS
75	95	30	66	59.7	156629	PASS
95	95	100	100	100.0	262571	PASS
96	95	5	9	6.8	17820	PASS
173	174	0.00	2	0.8	1428	PASS
174	95	50	120	65.3	171349	PASS
175	174	4	9	8.0	13693	PASS
176	174	93	101	99.0	169621	PASS
177	176	5	9	6.7	11431	PASS

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

Method File : VL072325AIR.M

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

Last Update : Thu Jul 24 05:24:41 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042752.D 0.1 =VL042754.D 0.5 =VL042750.D 1 =VL042749.D 2 =VL042748.D 10 =VL042747.D 15 =VL042753.D

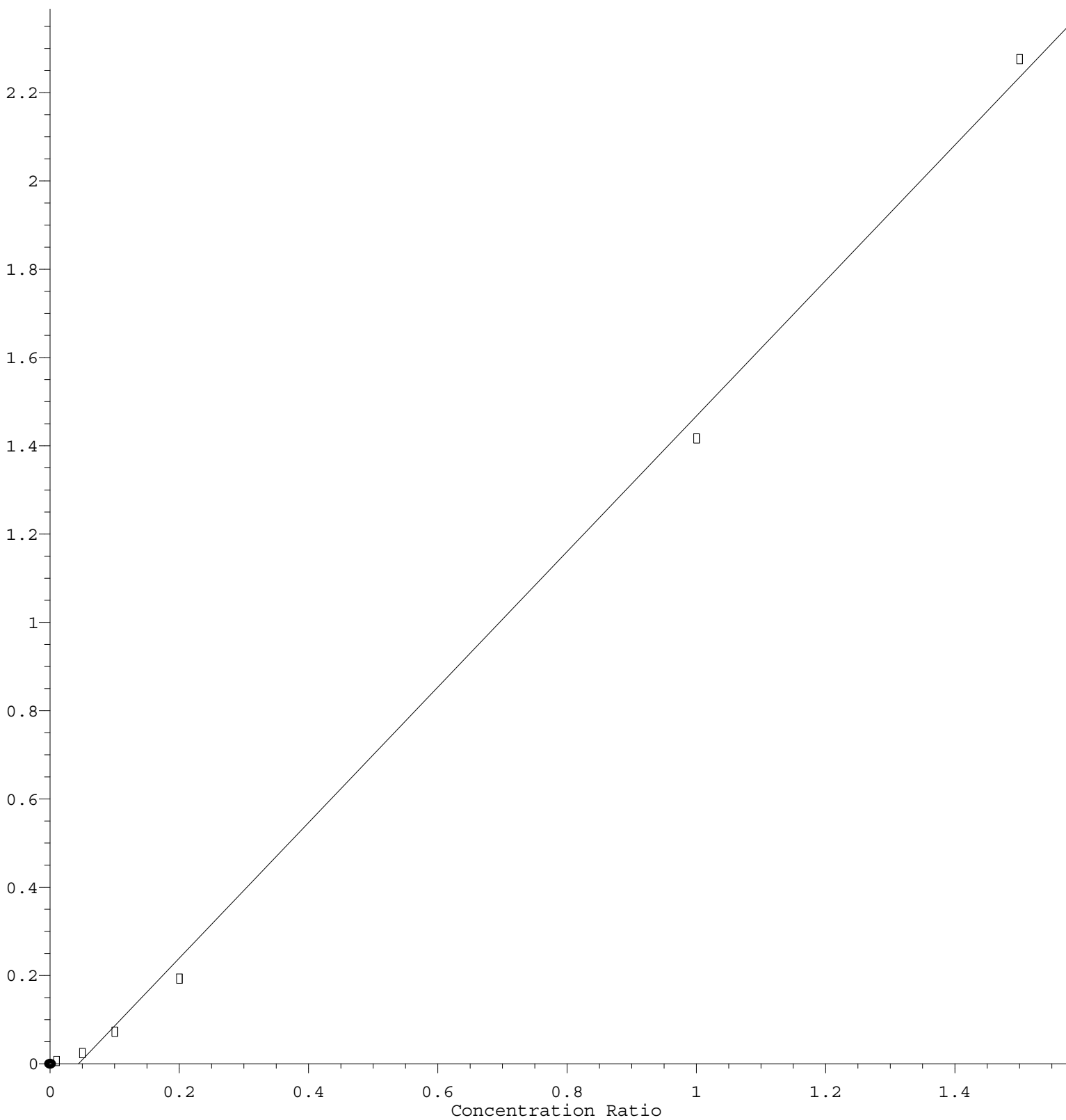
Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
-----ISTD-----									
1) I Bromochloromethane									
2) T Dichlorodifluo...			1.468	1.339	1.377	1.198	1.229	1.322	8.34
3) Chlorodifluoro...			1.890	1.757	1.772	1.625	1.567	1.722	7.41
4) Chloromethane			0.585	0.579	0.531	0.484	0.495	0.535	8.70
5) T Vinyl Chloride	0.825	0.549	0.516	0.476	0.485	0.411	0.437	0.528	26.27
6) T Bromomethane			0.227	0.239	0.181	0.178	0.196	0.204	13.52
7) Chloroethane			0.278	0.196	0.189	0.177	0.181	0.204	20.51
8) T Dichlorotetra...			1.186	1.130	1.123	0.980	1.017	1.087	7.89
9) T Propene			0.621	0.662	0.681	0.594	0.572	0.626	7.25
10) T Heptane			1.719	1.672	1.780	1.633	1.635	1.688	3.68
11) T Trichlorofluor...			1.457	1.435	1.412	1.226	1.285	1.363	7.47
12) T 1,1,2-Trichlor...			1.115	1.063	1.069	0.940	0.991	1.036	6.67
13) Ethanol			0.141	0.104	0.073	0.050	0.049	0.083	46.80
14) T Bromoethene			0.393	0.379	0.381	0.337	0.343	0.367	6.76
15) T Acetone			1.853	1.479	1.521	0.998	1.054	1.381	25.75
16) T 1,3-Butadiene			0.726	0.602	0.583	0.509	0.524	0.589	14.57
17) tert-Butyl alc...			1.366	1.275	1.265	1.165	1.156	1.245	7.01
18) T 1,1-Dichloroet...			0.536	0.530	0.453	0.404	0.417	0.468	13.20
19) T Isopropyl Alcohol			0.857	0.764	0.726	0.659	0.663	0.734	11.12
20) T Methylene Chlo...			0.595	0.458	0.419	0.337	0.367	0.435	23.16
21) T Allyl Chloride			0.903	0.856	0.876	0.798	0.821	0.851	4.92
22) T trans-1,2-Dich...			0.553	0.506	0.523	0.460	0.475	0.503	7.46
23) T Vinyl Acetate			1.643	1.502	1.688	1.704	1.833	1.674	7.14
24) T 1,1-Dichloroet...			1.053	1.117	1.071	0.945	0.981	1.033	6.75
25) T Ethyl Acetate			3.125	3.122	3.212	2.954	2.870	3.056	4.57
26) T Hexane			1.325	1.425	1.433	1.281	1.240	1.341	6.43
27) T Carbon Disulfide			1.146	1.183	1.165	1.088	1.157	1.148	3.13
28) T Methyl tert-Bu...			0.653	0.613	0.650	0.556	0.696	0.633	8.28
29) T Chloroform			2.261	2.104	2.136	1.915	1.943	2.072	6.92
30) T Cyclohexane			1.137	1.140	1.201	1.125	1.083	1.137	3.74
31) T cis-1,2-Dichlo...			1.459	1.406	1.414	1.306	1.304	1.378	5.05
32) T 1,1,1-Trichlor...	2.522	2.330	2.133	2.048	2.132	1.957	1.985	2.158	9.39
-----ISTD-----									
33) I 1,4-Difluorobenzene									
34) T 2-Butanone			0.730	0.713	0.761	0.663	0.675	0.708	5.64
35) T Carbon Tetrach...	0.950	0.692	0.681	0.709	0.735	0.701	0.731	0.743	12.56
36) T Benzene			0.976	0.971	0.995	0.896	0.900	0.948	4.86
37) T 1,2-Dichloroet...			0.595	0.585	0.584	0.537	0.553	0.571	4.34
38) T Trichloroethene	0.511	0.503	0.452	0.459	0.445	0.408	0.409	0.455	8.97
39) T 1,2-Dichloropr...			0.371	0.362	0.363	0.324	0.330	0.350	6.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL072325AIR.M									
40) T	1,4-Dioxane		0.177	0.170	0.174	0.141	0.153	0.163	9.36
41) T	Tetrahydrofuran		0.361	0.350	0.367	0.362	0.362	0.360	1.74
42) T	Bromodichlorom...		0.720	0.761	0.755	0.723	0.759	0.744	2.75
43) T	Methyl Methacr...		0.321	0.324	0.331	0.348	0.361	0.337	5.05
44) T	2,2,4-Trimethy...		1.515	1.585	1.634	1.486	1.503	1.545	4.03
45) T	t-1,3-Dichloro...		0.357	0.340	0.375	0.402	0.415	0.378	8.21
46) T	cis-1,3-Dichlo...		0.435	0.459	0.479	0.507	0.514	0.479	6.95
47) T	1,1,2-Trichlor...		0.393	0.384	0.385	0.347	0.356	0.373	5.41
48) T	Dibromochlorom...		0.569	0.571	0.600	0.600	0.619	0.592	3.61
49) T	Bromoform		0.483	0.502	0.517	0.529	0.549	0.516	4.87
50) T	4-Methyl-2-Pen...		0.876	0.907	0.956	0.895	0.928	0.912	3.39
51) T	2-Hexanone		0.573	0.647	0.744	0.726	0.757	0.690	11.25
52) T	Tetrachloroethene	0.504 0.422	0.374	0.394	0.378	0.339	0.339	0.393	14.53
53) T	Toluene		0.954	0.993	1.074	1.022	1.045	1.018	4.55
54) T	1,2-Dibromoethane	0.498	0.550	0.531	0.539	0.514	0.529	0.527	3.51
-----ISTD-----									
55) I	Chlorobenzene-d5								
56) T	1,1,1,2-Tetrac...		0.548	0.520	0.541	0.484	0.508	0.520	4.96
57) T	Chlorobenzene		1.019	1.019	1.016	0.879	0.905	0.968	7.22
58) T	Ethyl Benzene		1.426	1.548	1.744	1.551	1.627	1.579	7.40
59) T	m/p-Xylene		1.151	1.275	1.354	1.234	1.296	1.262	6.00
60) T	o-Xylene		1.155	1.280	1.381	1.225	1.264	1.261	6.55
61) T	Styrene		0.450	0.495	0.552	0.561	0.594	0.531	10.81
62) T	Isopropylbenzene		1.722	1.885	2.034	1.793	1.866	1.860	6.27
63) T	1,1,2,2-Tetrac...	1.105 0.785	0.761	0.795	0.803	0.693	0.726	0.810	16.82
64) T	n-propylbenzene		0.437	0.490	0.533	0.469	0.496	0.485	7.31
65) T	tert-Butylbenzene		1.496	1.669	1.839	1.606	1.652	1.652	7.52
66) T	Benzyl Chloride		0.114	0.115	0.128	0.159	0.163	0.136	17.43
67) T	sec-Butylbenzene		2.162	2.474	2.592	2.225	2.297	2.350	7.61
68) S	1-Bromo-4-Fluo...	0.780 0.759	0.782	0.799	0.805	0.801	0.818	0.792	2.50
69) T	p-Isopropyltol...		1.620	1.907	2.137	1.928	1.989	1.916	9.83
70) T	n-Butylbenzene		1.422	1.811	2.090	1.939	1.994	1.851	14.06
71) T	2-Chlorotoluene		1.331	1.444	1.522	1.385	1.451	1.426	5.08
72) T	4-Ethyltoluene		1.292	1.493	1.632	1.524	1.589	1.506	8.74
73) T	1,3,5-Trimethy...		1.096	1.193	1.315	1.275	1.321	1.240	7.70
74) T	1,2,4-Trimethy...		1.115	1.345	1.489	1.384	1.432	1.353	10.61
75) T	1,3-Dichlorobe...		0.914	0.970	1.038	0.887	0.933	0.948	6.14
76) T	1,4-Dichlorobe...		0.862	0.927	1.016	0.896	0.940	0.928	6.19
77) T	1,2-Dichlorobe...		0.920	0.996	1.002	0.848	0.894	0.932	7.10
78) T	Hexachloro-1,3...		0.897	0.908	0.953	0.712	0.748	0.844	12.62
79) T	Naphthalene	0.638	0.485	0.727	0.964	1.417	1.517	0.958	44.34
80) T	Naphthalene,2-...		0.036	0.048	0.071	0.685	0.790	0.326	115.91
81) T	1,2,4-Trichlor...		0.365	0.535	0.627	0.800	0.849	0.635	31.11

(#) = Out of Range

Naphthalene

Response Ratio



$$\text{Response} = 1.535\text{e}+000 * \text{Amt} - 6.678\text{e}-002$$

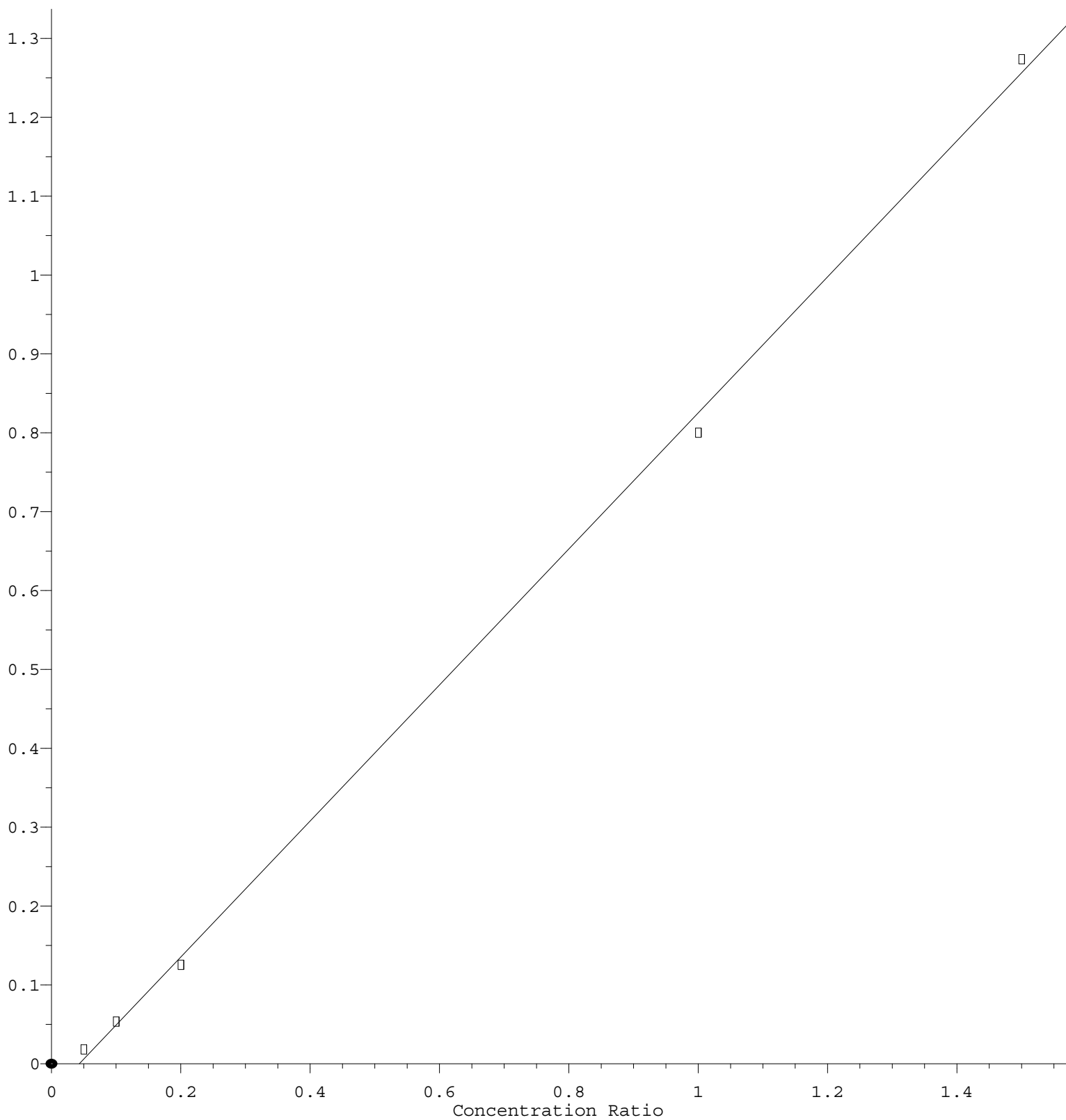
Coef of Det (r^2) = 0.997757 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

1,2,4-Trichlorobenzene

Response Ratio



$$\text{Response} = 8.625\text{e-}001 * \text{Amt} - 3.751\text{e-}002$$

Coef of Det (r^2) = 0.999044 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	159080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	462763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	422206	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 338271 10.117 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	190592	9.062	ppbv	100
3) Chlorodifluoromethane	1.476	51	258542	9.436	ppbv	100
4) Chloromethane	1.531	50	77006	9.050	ppbv	100
5) Vinyl Chloride	1.580	62	65346	7.773	ppbv	100
6) Bromomethane	1.667	94	28292	8.705	ppbv	100
7) Chloroethane	1.703	64	28085	8.646	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	155875	9.011	ppbv	100
9) Propene	1.483	41	94480	9.488	ppbv	100
10) Heptane	4.975	43	259821	9.701	ppbv	100
11) Trichlorofluoromethane	1.878	101	194964	8.992	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	149612	9.081	ppbv	100
13) Ethanol	1.719	45	7949	9.867	ppbv	97
14) Bromoethene	1.780	108	53625	9.193	ppbv	100
15) Acetone	1.835	43	158714	7.225	ppbv	100
16) 1,3-Butadiene	1.609	39	80968	8.642	ppbv	100
17) tert-Butyl alcohol	2.039	59	185262	9.351	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64224	8.627	ppbv	100
19) Isopropyl Alcohol	1.884	45	104903	8.987	ppbv	100
20) Methylene Chloride	2.059	84	53581	7.740	ppbv	100
21) Allyl Chloride	2.094	41	127021	9.382	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	73152	9.148	ppbv	100
23) Vinyl Acetate	2.460	43	271125	10.181	ppbv	100
24) 1,1-Dichloroethane	2.408	63	150257	9.141	ppbv	100
25) Ethyl Acetate	2.832	43	469997	9.666	ppbv	100
26) Hexane	2.826	57	203800	9.555	ppbv	100
27) Carbon Disulfide	2.149	76	173105	9.480	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	88372	8.770	ppbv	100
29) Chloroform	2.845	83	304670	9.244	ppbv	100
30) Cyclohexane	3.852	84	178948	9.892	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	207751	9.479	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	311368	9.069	ppbv	100
34) 2-Butanone	2.554	43	306858	9.361	ppbv	100
35) Carbon Tetrachloride	3.758	117	324501	9.436	ppbv	100
36) Benzene	3.654	78	414863	9.459	ppbv	100
37) 1,2-Dichloroethane	3.217	62	248414	9.403	ppbv	100
38) Trichloroethene	4.545	130	188750	8.926	ppbv	100
39) 1,2-Dichloropropane	4.311	63	149771	9.251	ppbv	100
40) 1,4-Dioxane	4.580	88	65413	8.569	ppbv #	100
41) Tetrahydrofuran	3.049	42	167323	10.160	ppbv	100
42) Bromodichloromethane	4.483	83	334531	9.713	ppbv	100
43) Methyl Methacrylate	4.875	69	161053	10.331	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	687885	9.623	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185965	10.633	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv	100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv	100
49) Bromoform	9.480	173	244997	10.256	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	413966	9.914	ppbv	100
51) 2-Hexanone	7.432	43	336048	10.532	ppbv	100
52) Tetrachloroethene	8.225	164	156930	8.609	ppbv	100
53) Toluene	6.930	91	472953	10.042	ppbv	100
54) 1,2-Dibromoethane	7.648	107	238045	9.745	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	204205	9.302	ppbv	100
57) Chlorobenzene	8.920	112	371117	9.082	ppbv	100
58) Ethyl Benzene	9.354	91	655020	9.824	ppbv	100
59) m/p-Xylene	9.552	91	1042332m	19.555	ppbv	
60) o-Xylene	9.963	91	517292	9.715	ppbv	100
61) Styrene	9.869	104	236709	10.568	ppbv	100
62) Isopropylbenzene	10.539	105	757219	9.641	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	292568	8.434	ppbv	100
64) n-propylbenzene	10.989	120	198109	9.675	ppbv	100
65) tert-Butylbenzene	11.529	119	678174	9.721	ppbv	100
66) Benzyl Chloride	11.617	91	66954	11.691	ppbv	100
67) sec-Butylbenzene	11.765	105	939396	9.468	ppbv	100
69) p-Isopropyltoluene	11.924	119	814010	10.061	ppbv	100
70) n-Butylbenzene	12.280	91	818457	10.473	ppbv	100
71) 2-Chlorotoluene	10.898	91	584629	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	643519	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	538451	10.285	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	584447	10.232	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	374587	9.355	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	378093	9.649	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	358206	9.102	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	300801	8.444	ppbv	100
79) Naphthalene	13.513	128	598108	9.665	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	289412	9.404	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	337776	9.710	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	158575	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 330476 10.160 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv	99
4) Chloromethane	1.531	50	16834	1.985	ppbv	100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv	92
6) Bromomethane	1.664	94	5754	1.776	ppbv	83
7) Chloroethane	1.703	64	6001	1.853	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv	100
9) Propene	1.483	41	21592	2.175	ppbv	97
10) Heptane	4.965	43	56442m	2.114	ppbv	
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv	99
13) Ethanol	1.719	45	2321	2.155	ppbv	78
14) Bromoethene	1.780	108	12078	2.077	ppbv #	96
15) Acetone	1.832	43	48226	2.202	ppbv	100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv	96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv	93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv #	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv	97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv	97
22) trans-1,2-Dichloroethene	2.337	96	16591m	2.081	ppbv	
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv	99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv	99
26) Hexane	2.822	57	45446	2.137	ppbv	99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv #	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv	96
29) Chloroform	2.842	83	67755	2.062	ppbv	97
30) Cyclohexane	3.845	84	38095m	2.113	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv	98
34) 2-Butanone	2.551	43	69674	2.149	ppbv	99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv	97
36) Benzene	3.648	78	91141	2.101	ppbv	94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv	98
38) Trichloroethene	4.538	130	40713	1.946	ppbv	90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv	94
40) 1,4-Dioxane	4.583	88	15890m	2.104	ppbv	
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv	94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv	94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	34331m	1.984	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	43845m	2.000	ppbv	
47) 1,1,2-Trichloroethane	6.567	97	35222m	2.063	ppbv	
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv	96
49) Bromoform	9.477	173	47340	2.003	ppbv	96
50) 4-Methyl-2-Pentanone	5.748	43	87566m	2.120	ppbv	
51) 2-Hexanone	7.431	43	68093	2.157	ppbv #	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv	94
53) Toluene	6.923	91	98346	2.111	ppbv	100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv	92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv #	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv	97
59) m/p-Xylene	9.545	91	222465m	4.290	ppbv	
60) o-Xylene	9.956	91	113462	2.190	ppbv	99
61) Styrene	9.865	104	45351	2.081	ppbv	100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv	100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv	98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv	98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv	98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv	99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv	99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv	99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv	98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv	95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv	99
79) Naphthalene	13.510	128	79191	1.690	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv	90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 327673 10.091 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv	93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv	99
4) Chloromethane	1.531	50	9047	1.082	ppbv	96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv	96
6) Bromomethane	1.667	94	3743	1.172	ppbv #	71
7) Chloroethane	1.703	64	3061	0.959	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv	98
9) Propene	1.483	41	10346	1.057	ppbv	95
10) Heptane	4.975	43	26137m	0.993	ppbv	
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv	97
13) Ethanol	1.719	45	1620m	1.222	ppbv	
14) Bromoethene	1.780	108	5928	1.034	ppbv #	92
15) Acetone	1.832	43	23119	1.071	ppbv	94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv	98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv	95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv #	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv	90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv	92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv	89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv	99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv	97
26) Hexane	2.823	57	22279	1.063	ppbv	98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv	90
29) Chloroform	2.845	83	32880	1.015	ppbv	95
30) Cyclohexane	3.852	84	17824	1.003	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv	97
34) 2-Butanone	2.554	43	32783	1.007	ppbv	98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv	92
36) Benzene	3.651	78	44638	1.024	ppbv	98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv #	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv	93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv	94
40) 1,4-Dioxane	4.587	88	7811m	1.030	ppbv	
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.480	83	34995m	1.023	ppbv	
43) Methyl Methacrylate	4.868	69	14886m	0.961	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	15641m	0.900	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	21088m	0.958	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv #	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv	99
49) Bromoform	9.474	173	23083	0.973	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	41715m	1.006	ppbv	
51) 2-Hexanone	7.435	43	29761	0.939	ppbv #	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv	96
53) Toluene	6.927	91	45645	0.976	ppbv	98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv	94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv #	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv	98
59) m/p-Xylene	9.545	91	104545m	2.020	ppbv	
60) o-Xylene	9.959	91	52499	1.015	ppbv	99
61) Styrene	9.865	104	20313	0.934	ppbv	97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv	100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv	95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv	95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv	96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv	99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv	98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv	98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv	100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv	98
79) Naphthalene	13.510	128	29792	0.907	ppbv	97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151256	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 319353 9.869 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv	98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv	97
4) Chloromethane	1.531	50	4428	0.547	ppbv	96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv	97
6) Bromomethane	1.667	94	1717	0.556	ppbv #	38
7) Chloroethane	1.703	64	2102	0.681	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv	97
9) Propene	1.483	41	4695	0.496	ppbv #	77
10) Heptane	4.978	43	13003m	0.511	ppbv	
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv	98
13) Ethanol	1.719	45	1066m	0.498	ppbv	
14) Bromoethene	1.781	108	2971	0.536	ppbv #	92
15) Acetone	1.836	43	14012	0.671	ppbv #	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv	100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv	77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv #	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv	82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv #	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv	88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv #	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv #	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv	97
26) Hexane	2.823	57	10019	0.494	ppbv	90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv #	79
29) Chloroform	2.849	83	17100	0.546	ppbv #	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv	89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv	97
34) 2-Butanone	2.557	43	16299	0.515	ppbv	94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv	90
36) Benzene	3.651	78	21800	0.515	ppbv	96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv #	95
38) Trichloroethene	4.548	130	10097m	0.494	ppbv	
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv #	90
40) 1,4-Dioxane	4.606	88	3963m	0.538	ppbv	
41) Tetrahydrofuran	3.056	42	8064m	0.507	ppbv	
42) Bromodichloromethane	4.487	83	16080m	0.484	ppbv	
43) Methyl Methacrylate	4.881	69	7162m	0.476	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv	93
45) t-1,3-Dichloropropene	6.412	75	7968m	0.472	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	9709m	0.454	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	8782m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	12723m	0.481	ppbv	
49) Bromoform	9.481	173	10801	0.468	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	19575m	0.486	ppbv	
51) 2-Hexanone	7.448	43	12813m	0.416	ppbv	
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv #	81
53) Toluene	6.924	91	21324	0.469	ppbv	95
54) 1,2-Dibromoethane	7.649	107	12294m	0.521	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv #	1
57) Chlorobenzene	8.921	112	20828	0.527	ppbv #	84
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv	96
59) m/p-Xylene	9.549	91	47028m	0.912	ppbv	
60) o-Xylene	9.963	91	23603	0.458	ppbv	100
61) Styrene	9.872	104	9195	0.424	ppbv	97
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv	99
64) n-propylbenzene	10.989	120	8924	0.450	ppbv	99
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv	95
66) Benzyl Chloride	11.617	91	2336m	0.421	ppbv	
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv	100
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv	99
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv	99
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv	97
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv	96
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv	99
79) Naphthalene	13.514	128	9916	0.592	ppbv	97
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv #	61
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042752.D
 Acq On : 23 Jul 2025 11:50
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:59:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	432802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	387541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302164	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	376	0.047	ppbv	# 68
32) 1,1,1-Trichloroethane	3.366	97	1149m	0.035	ppbv	
35) Carbon Tetrachloride	3.755	117	1233m	0.038	ppbv	
38) Trichloroethene	4.535	130	664m	0.034	ppbv	
52) Tetrachloroethene	8.215	164	654m	0.038	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1285m	0.040	ppbv	

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

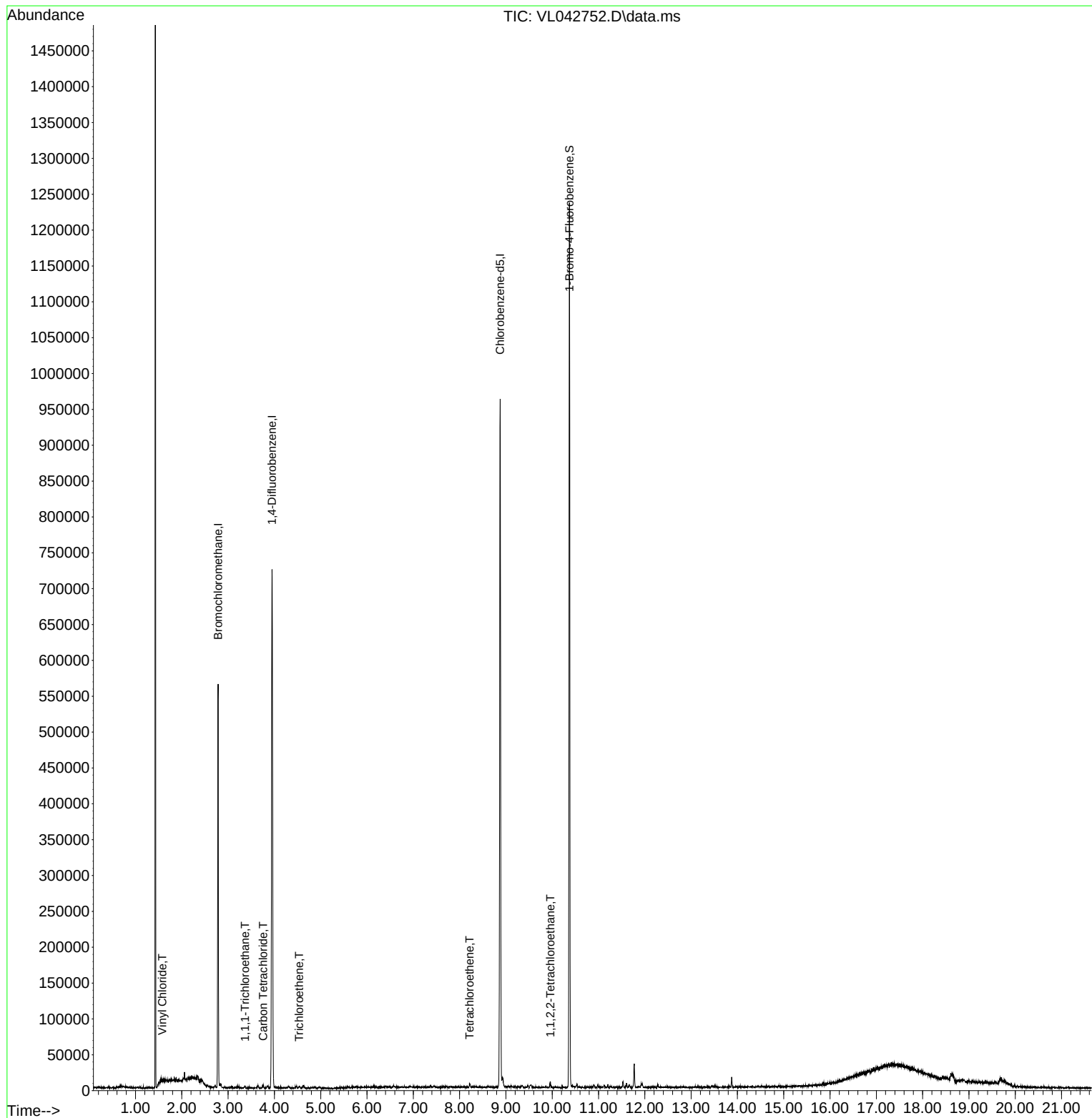
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
Supervised By : Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	150331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	427438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	385223	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 315293 10.335 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	277045	13.938	ppbv	98
3) Chlorodifluoromethane	1.473	51	353451	13.651	ppbv	98
4) Chloromethane	1.531	50	111684	13.889	ppbv	96
5) Vinyl Chloride	1.577	62	98596	12.410	ppbv	96
6) Bromomethane	1.667	94	44144	14.372	ppbv	92
7) Chloroethane	1.703	64	40909	13.327	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	229298	14.028	ppbv	99
9) Propene	1.483	41	129069	13.716	ppbv	99
10) Heptane	4.972	43	368612	14.563	ppbv	99
11) Trichlorofluoromethane	1.874	101	289764	14.143	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	223552	14.358	ppbv	99
13) Ethanol	1.719	45	11145	15.142	ppbv	86
14) Bromoethene	1.780	108	77435	14.047	ppbv	98
15) Acetone	1.832	43	237665	11.449	ppbv	98
16) 1,3-Butadiene	1.606	39	118252	13.355	ppbv	99
17) tert-Butyl alcohol	2.036	59	260587	13.919	ppbv	98
18) 1,1-Dichloroethene	2.030	96	94140	13.382	ppbv	93
19) Isopropyl Alcohol	1.881	45	149463	13.549	ppbv	99
20) Methylene Chloride	2.059	84	82755	12.651	ppbv	97
21) Allyl Chloride	2.094	41	185201	14.476	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	107003	14.160	ppbv	92
23) Vinyl Acetate	2.457	43	413378	16.426	ppbv	99
24) 1,1-Dichloroethane	2.405	63	221175	14.239	ppbv	100
25) Ethyl Acetate	2.829	43	647150	14.084	ppbv	99
26) Hexane	2.819	57	279549	13.869	ppbv	99
27) Carbon Disulfide	2.146	76	260884	15.119	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	156895	16.477	ppbv	97
29) Chloroform	2.842	83	438155	14.067	ppbv	100
30) Cyclohexane	3.849	84	244116	14.280	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	293947	14.192	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	447592	13.796	ppbv	100
34) 2-Butanone	2.551	43	432873	14.297	ppbv	100
35) Carbon Tetrachloride	3.755	117	468957	14.764	ppbv	98
36) Benzene	3.651	78	577153	14.247	ppbv	99
37) 1,2-Dichloroethane	3.211	62	354637	14.533	ppbv	100
38) Trichloroethene	4.541	130	262041	13.416	ppbv	97
39) 1,2-Dichloropropane	4.305	63	211594	14.150	ppbv	99
40) 1,4-Dioxane	4.567	88	98196	13.926	ppbv #	99
41) Tetrahydrofuran	3.046	42	232393	15.278	ppbv	99
42) Bromodichloromethane	4.480	83	486831	15.303	ppbv	99
43) Methyl Methacrylate	4.868	69	231227	16.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	963867	14.598	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	266194	16.478	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	329850	16.115	ppbv	99
47) 1,1,2-Trichloroethane	6.567	97	228492	14.335	ppbv	96
48) Dibromochloromethane	7.380	129	397179	15.695	ppbv	99
49) Bromoform	9.477	173	352050	15.955	ppbv	97
50) 4-Methyl-2-Pentanone	5.732	43	594973	15.427	ppbv	100
51) 2-Hexanone	7.428	43	485325	16.467	ppbv #	100
52) Tetrachloroethene	8.221	164	217184	12.899	ppbv	95
53) Toluene	6.923	91	670142	15.405	ppbv	99
54) 1,2-Dibromoethane	7.645	107	338867	15.019	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.920	131	293384	14.648	ppbv	99
57) Chlorobenzene	8.917	112	522894	14.025	ppbv	98
58) Ethyl Benzene	9.351	91	940159	15.454	ppbv	99
59) m/p-Xylene	9.545	91	1497932m	30.800	ppbv	
60) o-Xylene	9.959	91	730161	15.030	ppbv	100
61) Styrene	9.866	104	343429	16.805	ppbv	100
62) Isopropylbenzene	10.536	105	1078393	15.049	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	419734	13.261	ppbv	98
64) n-propylbenzene	10.985	120	286724	15.348	ppbv	97
65) tert-Butylbenzene	11.529	119	954459	14.995	ppbv	98
66) Benzyl Chloride	11.610	91	94218	18.031	ppbv	98
67) sec-Butylbenzene	11.762	105	1327393	14.662	ppbv	99
69) p-Isopropyltoluene	11.921	119	1149418	15.571	ppbv	99
70) n-Butylbenzene	12.277	91	1152207	16.159	ppbv	100
71) 2-Chlorotoluene	10.898	91	838335	15.257	ppbv	99
72) 4-Ethyltoluene	11.121	105	918453	15.830	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	763212	15.977	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	827222	15.873	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	539284	14.761	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	542998	15.188	ppbv	100
77) 1,2-Dichlorobenzene	11.943	146	516714	14.390	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	432138	13.296	ppbv	99
79) Naphthalene	13.507	128	876734	15.265	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	456529	15.438	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	490575	15.200	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:01:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
35) Carbon Tetrachloride	3.758	117	3035m	0.093	ppbv	
38) Trichloroethene	4.555	130	2207m	0.110	ppbv	
52) Tetrachloroethene	8.222	164	1852m	0.107	ppbv	
54) 1,2-Dibromoethane	7.665	107	2184m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	3084m	0.095	ppbv	
79) Naphthalene	13.514	128	2509	0.475	ppbv #	96

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

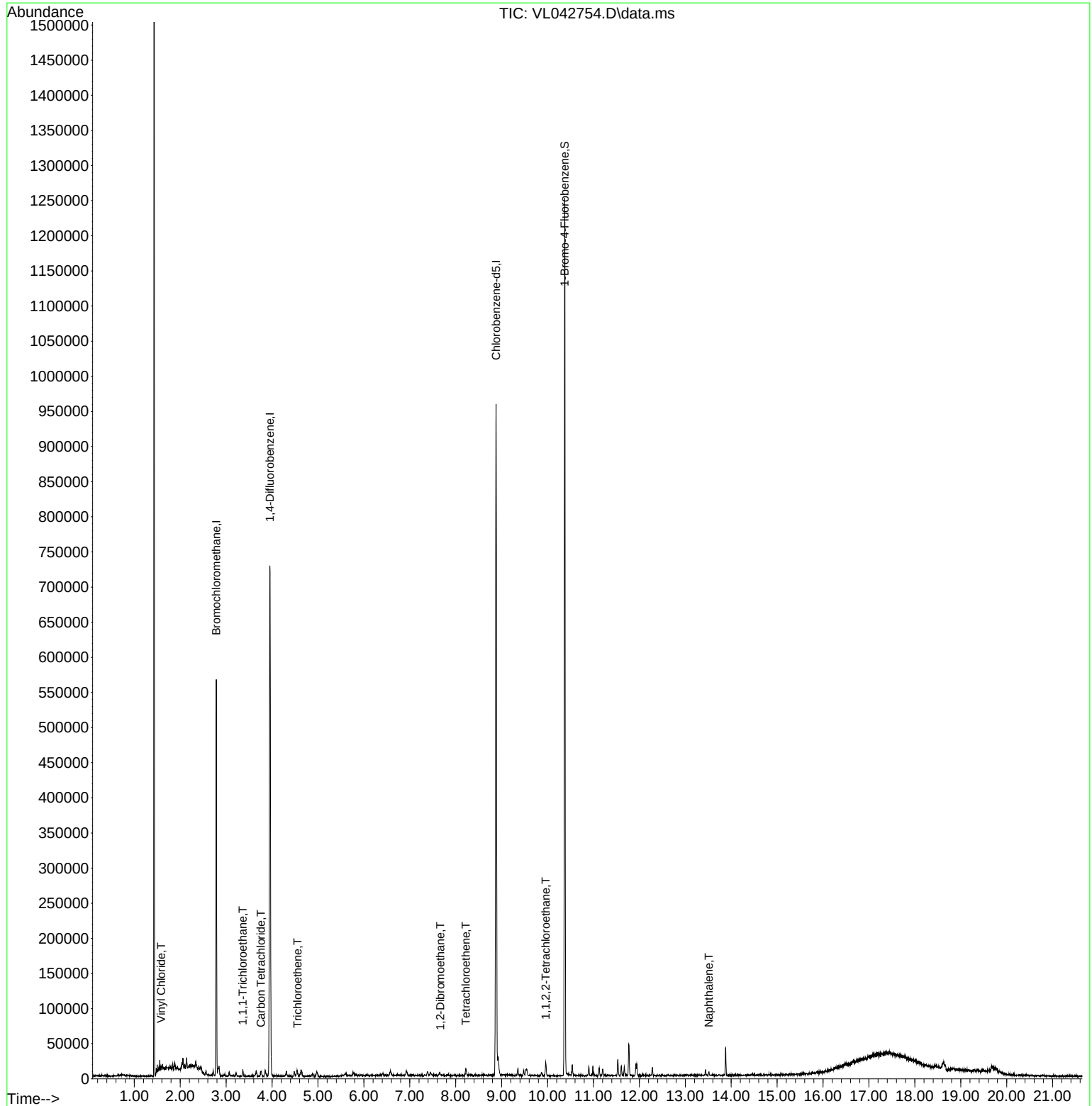
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	148064	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	421747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	380539	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 313324 10.397 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	185425	9.472	ppbv	99
3) Chlorodifluoromethane	1.473	51	242908	9.525	ppbv	99
4) Chloromethane	1.531	50	72221	9.119	ppbv	98
5) Vinyl Chloride	1.577	62	64673	8.265	ppbv	100
6) Bromomethane	1.664	94	27096	8.957	ppbv	99
7) Chloroethane	1.700	64	26125	8.641	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	148833	9.244	ppbv	100
9) Propene	1.479	41	86343	9.316	ppbv	95
10) Heptane	4.965	43	247934	9.921	ppbv	99
11) Trichlorofluoromethane	1.874	101	179643	8.902	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	138363	9.023	ppbv	98
13) Ethanol	1.719	45	7690	10.243	ppbv	92
14) Bromoethene	1.777	108	48972	9.020	ppbv	98
15) Acetone	1.832	43	149742	7.324	ppbv	99
16) 1,3-Butadiene	1.606	39	79112	9.072	ppbv	98
17) tert-Butyl alcohol	2.036	59	170096	9.225	ppbv	98
18) 1,1-Dichloroethene	2.030	96	62149	8.970	ppbv	96
19) Isopropyl Alcohol	1.881	45	97844	9.006	ppbv	99
20) Methylene Chloride	2.056	84	53608	8.320	ppbv	98
21) Allyl Chloride	2.091	41	118958	9.441	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	69482	9.322	ppbv	97
23) Vinyl Acetate	2.457	43	261938	10.568	ppbv	98
24) 1,1-Dichloroethane	2.402	63	137586	8.993	ppbv	99
25) Ethyl Acetate	2.829	43	444208	9.816	ppbv	99
26) Hexane	2.819	57	190523	9.597	ppbv	98
27) Carbon Disulfide	2.146	76	164040	9.652	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	85480	9.114	ppbv	98
29) Chloroform	2.842	83	295808	9.643	ppbv	99
30) Cyclohexane	3.849	84	164554	9.773	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	199970	9.802	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	293074	9.172	ppbv	100
34) 2-Butanone	2.551	43	294837	9.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	310129	9.900	ppbv	96
36) Benzene	3.648	78	393085	9.834	ppbv	99
37) 1,2-Dichloroethane	3.211	62	238249	9.895	ppbv	100
38) Trichloroethene	4.538	130	178600	9.301	ppbv	97
39) 1,2-Dichloropropane	4.305	63	141316	9.578	ppbv	95
40) 1,4-Dioxane	4.570	88	65204	9.481	ppbv #	94
41) Tetrahydrofuran	3.046	42	158159	10.404	ppbv	99
42) Bromodichloromethane	4.477	83	321549	10.254	ppbv	98
43) Methyl Methacrylate	4.865	69	152551	10.738	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	649720	9.973	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	169563	10.643	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv	97
47) 1,1,2-Trichloroethane	6.564	97	154882m	9.848	ppbv	
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv	98
49) Bromoform	9.477	173	233573	10.729	ppbv	99
50) 4-Methyl-2-Pentanone	5.736	43	396506	10.303	ppbv	100
51) 2-Hexanone	7.428	43	320740	11.029	ppbv #	100
52) Tetrachloroethene	8.218	164	151810	9.163	ppbv	98
53) Toluene	6.927	91	441829	10.294	ppbv	100
54) 1,2-Dibromoethane	7.645	107	229563	10.331	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.920	131	193089	9.759	ppbv	99
57) Chlorobenzene	8.914	112	354412	9.623	ppbv	96
58) Ethyl Benzene	9.348	91	631247	10.504	ppbv	99
59) m/p-Xylene	9.545	91	1016249m	21.160	ppbv	
60) o-Xylene	9.959	91	503849	10.499	ppbv	99
61) Styrene	9.866	104	225799	11.185	ppbv	99
62) Isopropylbenzene	10.536	105	736044	10.398	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	287775	9.340	ppbv	99
64) n-propylbenzene	10.982	120	193034	10.460	ppbv	98
65) tert-Butylbenzene	11.526	119	660966	10.512	ppbv	99
66) Benzyl Chloride	11.610	91	60055	11.634	ppbv	99
67) sec-Butylbenzene	11.762	105	914046	10.221	ppbv	100
69) p-Isopropyltoluene	11.921	119	778601	10.677	ppbv	99
70) n-Butylbenzene	12.277	91	788734	11.197	ppbv	99
71) 2-Chlorotoluene	10.895	91	563193	10.376	ppbv	99
72) 4-Ethyltoluene	11.121	105	617355	10.772	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	516735	10.951	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	567186	11.017	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	366855	10.165	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	364937	10.333	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	348999	9.839	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	291861	9.091	ppbv	99
79) Naphthalene	13.510	128	578563	10.342	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	277798	9.951	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	319897	10.181	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

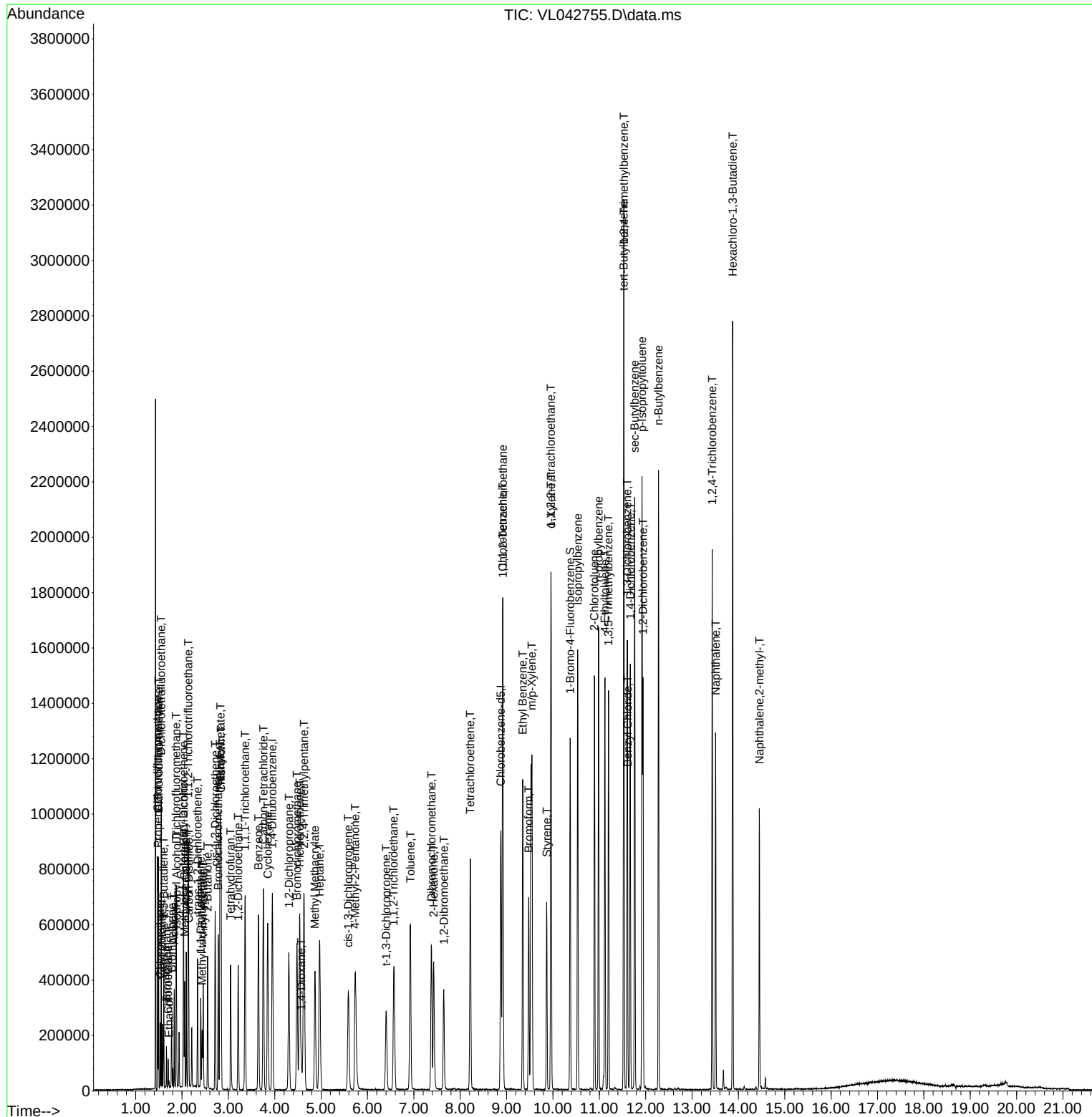
Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.322	1.252	5.3	97	0.00
3	Chlorodifluoromethane	1.722	1.641	4.7	94	0.00
4	Chloromethane	0.535	0.488	8.8	94	0.00
5 T	Vinyl Chloride	0.528	0.437	17.2	99	0.00
6 T	Bromomethane	0.204	0.183	10.3	96	0.00
7	Chloroethane	0.204	0.176	13.7	93	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.005	7.5	95	0.00
9 T	Propene	0.626	0.583	6.9	91	0.00
10 T	Heptane	1.688	1.675	0.8	95	0.00
11 T	Trichlorofluoromethane	1.363	1.213	11.0	92	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	0.934	9.8	92	0.00
13	Ethanol	0.083	0.052	37.3#	97	0.00
14 T	Bromoethene	0.367	0.331	9.8	91	0.00
15 T	Acetone	1.381	1.011	26.8	94	0.00
16 T	1,3-Butadiene	0.589	0.534	9.3	98	0.00
17	tert-Butyl alcohol	1.245	1.149	7.7	92	0.00
18 T	1,1-Dichloroethene	0.468	0.420	10.3	97	0.00
19 T	Isopropyl Alcohol	0.734	0.661	9.9	93	0.00
20 T	Methylene Chloride	0.435	0.362	16.8	100	0.00
21 T	Allyl Chloride	0.851	0.803	5.6	94	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.469	6.8	95	0.00
23 T	Vinyl Acetate	1.674	1.769	-5.7	97	0.00
24 T	1,1-Dichloroethane	1.033	0.929	10.1	92	0.00
25 T	Ethyl Acetate	3.056	3.000	1.8	95	0.00
26 T	Hexane	1.341	1.287	4.0	93	0.00
27 T	Carbon Disulfide	1.148	1.108	3.5	95	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.577	8.8	97	0.00
29 T	Chloroform	2.072	1.998	3.6	97	0.00
30 T	Cyclohexane	1.137	1.111	2.3	92	0.00
31 T	cis-1,2-Dichloroethene	1.378	1.351	2.0	96	0.00
32 T	1,1,1-Trichloroethane	2.158	1.979	8.3	94	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.708	0.699	1.3	96	0.00
35 T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
36 T	Benzene	0.948	0.932	1.7	95	0.00
37 T	1,2-Dichloroethane	0.571	0.565	1.1	96	0.00
38 T	Trichloroethene	0.455	0.423	7.0	95	0.00
39 T	1,2-Dichloropropane	0.350	0.335	4.3	94	0.00
40 T	1,4-Dioxane	0.163	0.155	4.9	100	0.00
41 T	Tetrahydrofuran	0.360	0.375	-4.2	95	0.00
42 T	Bromodichloromethane	0.744	0.762	-2.4	96	0.00
43	Methyl Methacrylate	0.337	0.362	-7.4	95	0.00
44 T	2,2,4-Trimethylpentane	1.545	1.541	0.3	94	0.00
45 T	t-1,3-Dichloropropene	0.378	0.402	-6.3	91	0.00
46 T	cis-1,3-Dichloropropene	0.479	0.511	-6.7	92	0.00
47 T	1,1,2-Trichloroethane	0.373	0.367	1.6	97	-0.02
48 T	Dibromochloromethane	0.592	0.619	-4.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	0.516	0.554	-7.4	95	0.00
50 T	4-Methyl-2-Pentanone	0.912	0.940	-3.1	96	0.00
51 T	2-Hexanone	0.690	0.761	-10.3	95	0.00
52 T	Tetrachloroethene	0.393	0.360	8.4	97	0.00
53 T	Toluene	1.018	1.048	-2.9	93	0.00
54 T	1,2-Dibromoethane	0.527	0.544	-3.2	96	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.520	0.507	2.5	95	0.00
57 T	Chlorobenzene	0.968	0.931	3.8	95	0.00
58 T	Ethyl Benzene	1.579	1.659	-5.1	96	0.00
59 T	m/p-Xylene	1.262	1.335	-5.8	97	0.00
60 T	o-Xylene	1.261	1.324	-5.0	97	0.00
61 T	Styrene	0.531	0.593	-11.7	95	0.00
62	Isopropylbenzene	1.860	1.934	-4.0	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.756	6.7	98	0.00
64	n-propylbenzene	0.485	0.507	-4.5	97	0.00
65	tert-Butylbenzene	1.652	1.737	-5.1	97	0.00
66 T	Benzyl Chloride	0.136	0.158	-16.2	90	0.00
67	sec-Butylbenzene	2.350	2.402	-2.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.823	-3.9	93	0.00
69	p-Isopropyltoluene	1.916	2.046	-6.8	96	0.00
70	n-Butylbenzene	1.851	2.073	-12.0	96	0.00
71	2-Chlorotoluene	1.426	1.480	-3.8	96	0.00
72 T	4-Ethyltoluene	1.506	1.622	-7.7	96	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.358	-9.5	96	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.490	-10.1	97	0.00
75 T	1,3-Dichlorobenzene	0.948	0.964	-1.7	98	0.00
76 T	1,4-Dichlorobenzene	0.928	0.959	-3.3	97	0.00
77 T	1,2-Dichlorobenzene	0.932	0.917	1.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.767	9.1	97	0.00
79 T	Naphthalene	0.958	1.520	-58.7#	97	0.00
80 T	Naphthalene,2-methyl-	0.326	0.730	-123.9#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.841	-32.4#	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.472	5.3	97	0.00
3	Chlorodifluoromethane	10.000	9.525	4.7	94	0.00
4	Chloromethane	10.000	9.119	8.8	94	0.00
5 T	Vinyl Chloride	10.000	8.265	17.3	99	0.00
6 T	Bromomethane	10.000	8.957	10.4	96	0.00
7	Chloroethane	10.000	8.641	13.6	93	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.244	7.6	95	0.00
9 T	Propene	10.000	9.316	6.8	91	0.00
10 T	Heptane	10.000	9.921	0.8	95	0.00
11 T	Trichlorofluoromethane	10.000	8.902	11.0	92	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.023	9.8	92	0.00
13	Ethanol	10.000	10.243	-2.4	97	0.00
14 T	Bromoethene	10.000	9.020	9.8	91	0.00
15 T	Acetone	10.000	7.324	26.8	94	0.00
16 T	1,3-Butadiene	10.000	9.072	9.3	98	0.00
17	tert-Butyl alcohol	10.000	9.225	7.8	92	0.00
18 T	1,1-Dichloroethene	10.000	8.970	10.3	97	0.00
19 T	Isopropyl Alcohol	10.000	9.006	9.9	93	0.00
20 T	Methylene Chloride	10.000	8.320	16.8	100	0.00
21 T	Allyl Chloride	10.000	9.441	5.6	94	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.322	6.8	95	0.00
23 T	Vinyl Acetate	10.000	10.568	-5.7	97	0.00
24 T	1,1-Dichloroethane	10.000	8.993	10.1	92	0.00
25 T	Ethyl Acetate	10.000	9.816	1.8	95	0.00
26 T	Hexane	10.000	9.597	4.0	93	0.00
27 T	Carbon Disulfide	10.000	9.652	3.5	95	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.114	8.9	97	0.00
29 T	Chloroform	10.000	9.643	3.6	97	0.00
30 T	Cyclohexane	10.000	9.773	2.3	92	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.802	2.0	96	0.00
32 T	1,1,1-Trichloroethane	10.000	9.172	8.3	94	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.869	1.3	96	0.00
35 T	Carbon Tetrachloride	10.000	9.900	1.0	96	0.00
36 T	Benzene	10.000	9.834	1.7	95	0.00
37 T	1,2-Dichloroethane	10.000	9.895	1.1	96	0.00
38 T	Trichloroethene	10.000	9.301	7.0	95	0.00
39 T	1,2-Dichloropropane	10.000	9.578	4.2	94	0.00
40 T	1,4-Dioxane	10.000	9.481	5.2	100	0.00
41 T	Tetrahydrofuran	10.000	10.404	-4.0	95	0.00
42 T	Bromodichloromethane	10.000	10.254	-2.5	96	0.00
43	Methyl Methacrylate	10.000	10.738	-7.4	95	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.973	0.3	94	0.00
45 T	t-1,3-Dichloropropene	10.000	10.643	-6.4	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.679	-6.8	92	0.00
47 T	1,1,2-Trichloroethane	10.000	9.848	1.5	97	-0.02
48 T	Dibromochloromethane	10.000	10.460	-4.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	10.729	-7.3	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.303	-3.0	96	0.00
51 T	2-Hexanone	10.000	11.029	-10.3	95	0.00
52 T	Tetrachloroethene	10.000	9.163	8.4	97	0.00
53 T	Toluene	10.000	10.294	-2.9	93	0.00
54 T	1,2-Dibromoethane	10.000	10.331	-3.3	96	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.759	2.4	95	0.00
57 T	Chlorobenzene	10.000	9.623	3.8	95	0.00
58 T	Ethyl Benzene	10.000	10.504	-5.0	96	0.00
59 T	m/p-Xylene	20.000	21.160	-5.8	97	0.00
60 T	o-Xylene	10.000	10.499	-5.0	97	0.00
61 T	Styrene	10.000	11.185	-11.9	95	0.00
62	Isopropylbenzene	10.000	10.398	-4.0	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.340	6.6	98	0.00
64	n-propylbenzene	10.000	10.460	-4.6	97	0.00
65	tert-Butylbenzene	10.000	10.512	-5.1	97	0.00
66 T	Benzyl Chloride	10.000	11.634	-16.3	90	0.00
67	sec-Butylbenzene	10.000	10.221	-2.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.397	-4.0	93	0.00
69	p-Isopropyltoluene	10.000	10.677	-6.8	96	0.00
70	n-Butylbenzene	10.000	11.197	-12.0	96	0.00
71	2-Chlorotoluene	10.000	10.376	-3.8	96	0.00
72 T	4-Ethyltoluene	10.000	10.772	-7.7	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.951	-9.5	96	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.017	-10.2	97	0.00
75 T	1,3-Dichlorobenzene	10.000	10.165	-1.6	98	0.00
76 T	1,4-Dichlorobenzene	10.000	10.333	-3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.839	1.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.091	9.1	97	0.00
79 T	Naphthalene	10.000	10.342	-3.4	97	0.00
80 T	Naphthalene,2-methyl-	10.000	9.951	0.5	96	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.181	-1.8	95	0.00

(#) = Out of Range

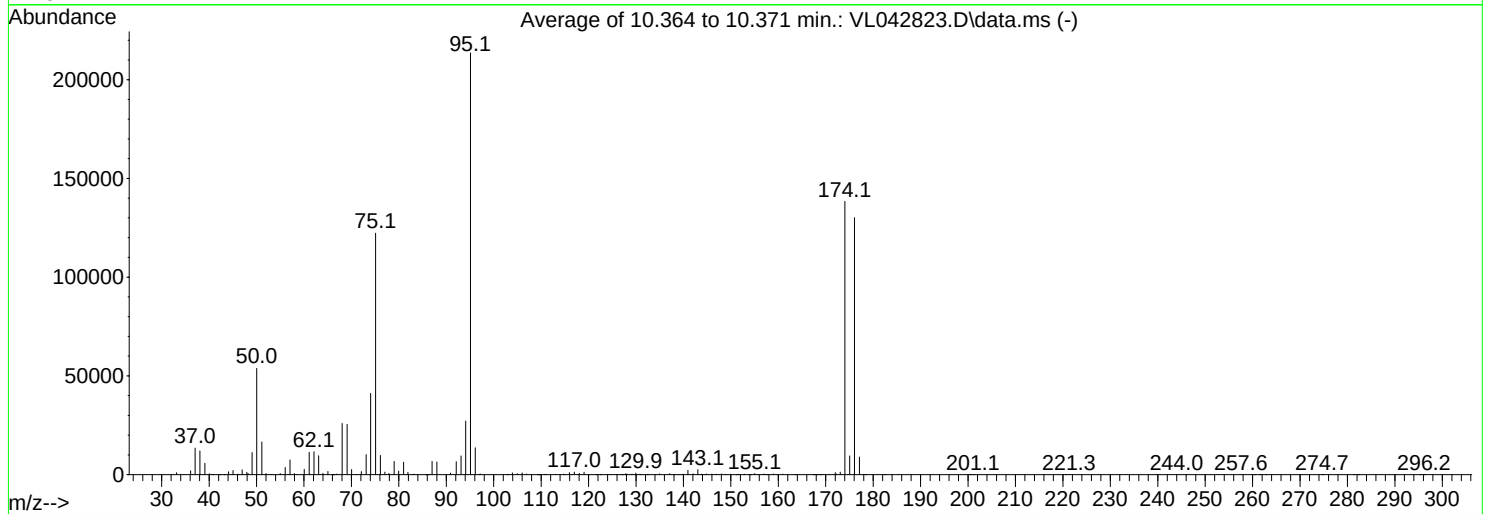
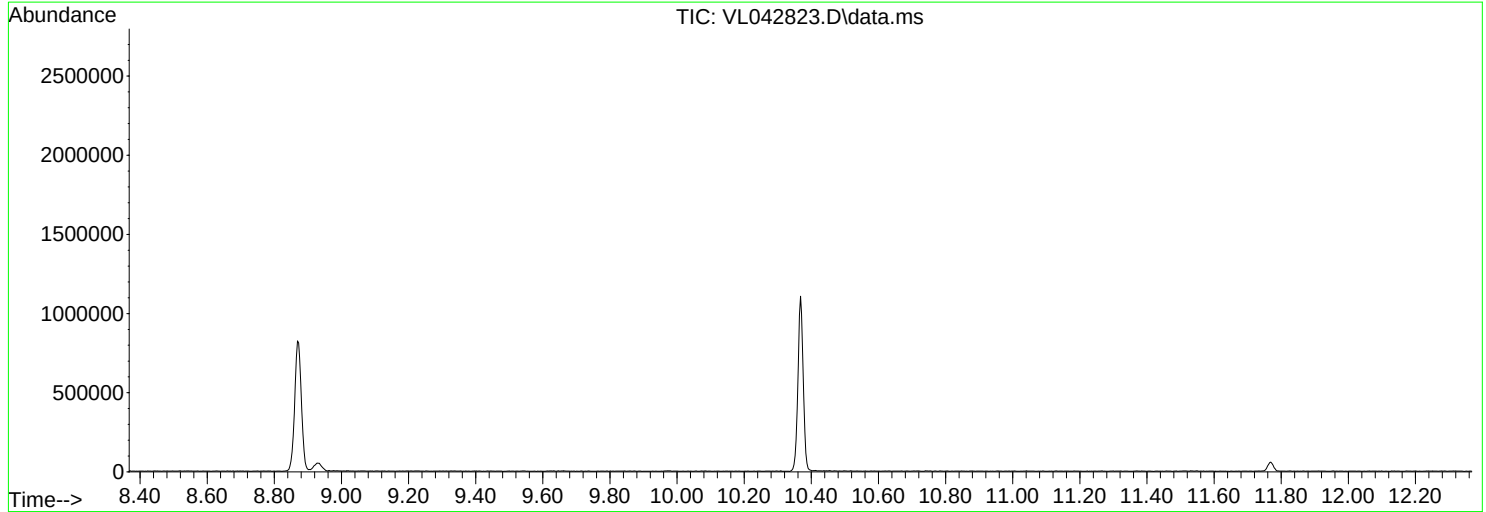
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042823.D
Acq On : 07 Aug 2025 07:42
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025



AutoFind: Scans 3175, 3176, 3177; 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	25.2	53840	PASS
75	95	30	66	57.2	122251	PASS
95	95	100	100	100.0	213589	PASS
96	95	5	9	6.4	13653	PASS
173	174	0.00	2	1.0	1322	PASS
174	95	50	120	64.8	138379	PASS
175	174	4	9	6.9	9520	PASS
176	174	93	101	94.0	130096	PASS
177	176	5	9	6.8	8909	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042824.D
 Acq On : 07 Aug 2025 08:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2025
 Supervised By : Mahesh Dadoda 08/11/2025

Quant Time: Aug 08 01:12:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 8 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	152875	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	409968	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	350615	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 289682 10.433 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	198002	9.796	ppbv	99
3) Chlorodifluoromethane	1.473	51	259636	9.861	ppbv	99
4) Chloromethane	1.531	50	81057	9.913	ppbv	99
5) Vinyl Chloride	1.576	62	69415	8.592	ppbv	97
6) Bromomethane	1.664	94	29967	9.594	ppbv	100
7) Chloroethane	1.703	64	29394	9.416	ppbv	97
8) Dichlorotetrafluoroethane	1.550	85	160036	9.627	ppbv	99
9) Propene	1.482	41	84574	8.838	ppbv	100
10) Heptane	4.965	43	266506	10.328	ppbv	99
11) Trichlorofluoromethane	1.874	101	202046	9.697	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	154906	9.784	ppbv	99
13) Ethanol	1.719	45	6698	8.461	ppbv	96
14) Bromoethene	1.777	108	54097	9.650	ppbv	99
15) Acetone	1.832	43	168703	7.992	ppbv	98
16) 1,3-Butadiene	1.605	39	83330	9.255	ppbv	99
17) tert-Butyl alcohol	2.036	59	172327	9.051	ppbv	98
18) 1,1-Dichloroethene	2.029	96	64871	9.068	ppbv	99
19) Isopropyl Alcohol	1.881	45	103955	9.267	ppbv	98
20) Methylene Chloride	2.055	84	58299	8.764	ppbv	97
21) Allyl Chloride	2.091	41	127987	9.837	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	75249	9.778	ppbv	92
23) Vinyl Acetate	2.457	43	276849	10.818	ppbv	99
24) 1,1-Dichloroethane	2.405	63	157224	9.953	ppbv	100
25) Ethyl Acetate	2.829	43	470307	10.065	ppbv	99
26) Hexane	2.819	57	199330	9.725	ppbv	96
27) Carbon Disulfide	2.146	76	181651	10.352	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	96685	9.985	ppbv	99
29) Chloroform	2.842	83	325268	10.269	ppbv	96
30) Cyclohexane	3.845	84	162874	9.369	ppbv	94
31) cis-1,2-Dichloroethene	2.712	61	193169	9.171	ppbv	94
32) 1,1,1-Trichloroethane	3.360	97	310277	9.404	ppbv	99
34) 2-Butanone	2.551	43	304692	10.492	ppbv	99
35) Carbon Tetrachloride	3.751	117	332414	10.916	ppbv	98
36) Benzene	3.648	78	396745	10.211	ppbv	98
37) 1,2-Dichloroethane	3.211	62	246983	10.552	ppbv	99
38) Trichloroethene	4.538	130	179403	9.611	ppbv	95
39) 1,2-Dichloropropane	4.298	63	147118	10.258	ppbv	99
40) 1,4-Dioxane	4.564	88	63053	9.432	ppbv #	93
41) Tetrahydrofuran	3.046	42	159238	10.776	ppbv	96
42) Bromodichloromethane	4.476	83	338249	11.096	ppbv	95
43) Methyl Methacrylate	4.868	69	144407	10.456	ppbv	98
44) 2,2,4-Trimethylpentane	4.628	57	693154	10.945	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	156600	10.112	ppbv #	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042824.D
 Acq On : 07 Aug 2025 08:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2025
 Supervised By : Mahesh Dadoda 08/11/2025

Quant Time: Aug 08 01:12:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 8 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	202323	10.309	ppbv	98
47) 1,1,2-Trichloroethane	6.567	97	159326	10.421	ppbv	96
48) Dibromochloromethane	7.376	129	272360	11.222	ppbv	99
49) Bromoform	9.474	173	244228	11.540	ppbv	99
50) 4-Methyl-2-Pentanone	5.735	43	407716	10.899	ppbv	97
51) 2-Hexanone	7.425	43	326255	11.541	ppbv #	96
52) Tetrachloroethene	8.215	164	145788	9.052	ppbv	98
53) Toluene	6.920	91	432808m	10.373	ppbv	
54) 1,2-Dibromoethane	7.642	107	233457	10.808	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.917	131	211408	11.597	ppbv	99
57) Chlorobenzene	8.914	112	371449	10.947	ppbv	97
58) Ethyl Benzene	9.348	91	615869	11.123	ppbv	98
59) m/p-Xylene	9.542	91	1060554m	23.967	ppbv	
60) o-Xylene	9.956	91	524632	11.865	ppbv	100
61) Styrene	9.865	104	207723	11.168	ppbv	99
62) Isopropylbenzene	10.532	105	750824	11.512	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	318926	11.235	ppbv	99
64) n-propylbenzene	10.982	120	203161	11.948	ppbv	99
65) tert-Butylbenzene	11.526	119	685288	11.829	ppbv	99
66) Benzyl Chloride	11.610	91	67529	14.199	ppbv	98
67) sec-Butylbenzene	11.762	105	963413	11.692	ppbv	99
69) p-Isopropyltoluene	11.921	119	822590	12.243	ppbv	100
70) n-Butylbenzene	12.277	91	841132	12.960	ppbv	99
71) 2-Chlorotoluene	10.895	91	575639	11.510	ppbv	99
72) 4-Ethyltoluene	11.118	105	644350	12.202	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	541834	12.462	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	608776	12.834	ppbv	92
75) 1,3-Dichlorobenzene	11.600	146	386529	11.624	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	391456	12.030	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	380829	11.653	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	302640	10.231	ppbv	99
79) Naphthalene	13.507	128	563249	10.903	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	203706	8.150	ppbv	98
81) 1,2,4-Trichlorobenzene	13.435	180	313518	10.802	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042824.D
 Acq On : 07 Aug 2025 08:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 08 01:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	96	0.00
2 T	Dichlorodifluoromethane	1.322	1.295	2.0	104	0.00
3	Chlorodifluoromethane	1.722	1.698	1.4	100	0.00
4	Chloromethane	0.535	0.530	0.9	105	0.00
5 T	Vinyl Chloride	0.528	0.454	14.0	106	0.00
6 T	Bromomethane	0.204	0.196	3.9	106	0.00
7	Chloroethane	0.204	0.192	5.9	105	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.047	3.7	103	0.00
9 T	Propene	0.626	0.553	11.7	90	0.00
10 T	Heptane	1.688	1.743	-3.3	103	0.00
11 T	Trichlorofluoromethane	1.363	1.322	3.0	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	1.013	2.2	104	0.00
13	Ethanol	0.083	0.044#	47.0#	84	0.00
14 T	Bromoethene	0.367	0.354	3.5	101	0.00
15 T	Acetone	1.381	1.104	20.1	106	0.00
16 T	1,3-Butadiene	0.589	0.545	7.5	103	0.00
17	tert-Butyl alcohol	1.245	1.127	9.5	93	0.00
18 T	1,1-Dichloroethene	0.468	0.424	9.4	101	0.00
19 T	Isopropyl Alcohol	0.734	0.680	7.4	99	0.00
20 T	Methylene Chloride	0.435	0.381	12.4	109	0.00
21 T	Allyl Chloride	0.851	0.837	1.6	101	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.492	2.2	103	0.00
23 T	Vinyl Acetate	1.674	1.811	-8.2	102	0.00
24 T	1,1-Dichloroethane	1.033	1.028	0.5	105	0.00
25 T	Ethyl Acetate	3.056	3.076	-0.7	100	0.00
26 T	Hexane	1.341	1.304	2.8	98	0.00
27 T	Carbon Disulfide	1.148	1.188	-3.5	105	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.632	0.2	109	0.00
29 T	Chloroform	2.072	2.128	-2.7	107	0.00
30 T	Cyclohexane	1.137	1.065	6.3	91	0.00
31 T	cis-1,2-Dichloroethene	1.378	1.264	8.3	93	0.00
32 T	1,1,1-Trichloroethane	2.158	2.030	5.9	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34 T	2-Butanone	0.708	0.743	-4.9	99	0.00
35 T	Carbon Tetrachloride	0.743	0.811	-9.2	102	0.00
36 T	Benzene	0.948	0.968	-2.1	96	0.00
37 T	1,2-Dichloroethane	0.571	0.602	-5.4	99	0.00
38 T	Trichloroethene	0.455	0.438	3.7	95	0.00
39 T	1,2-Dichloropropane	0.350	0.359	-2.6	98	-0.01
40 T	1,4-Dioxane	0.163	0.154	5.5	96	-0.02
41 T	Tetrahydrofuran	0.360	0.388	-7.8	95	0.00
42 T	Bromodichloromethane	0.744	0.825	-10.9	101	0.00
43	Methyl Methacrylate	0.337	0.352	-4.5	90	0.00
44 T	2,2,4-Trimethylpentane	1.545	1.691	-9.4	101	0.00
45 T	t-1,3-Dichloropropene	0.378	0.382	-1.1	84	-0.01
46 T	cis-1,3-Dichloropropene	0.479	0.494	-3.1	86	0.00
47 T	1,1,2-Trichloroethane	0.373	0.389	-4.3	99	-0.01
48 T	Dibromochloromethane	0.592	0.664	-12.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042824.D
 Acq On : 07 Aug 2025 08:27
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 08 01:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	0.516	0.596	-15.5	100	0.00
50 T	4-Methyl-2-Pentanone	0.912	0.995	-9.1	98	0.00
51 T	2-Hexanone	0.690	0.796	-15.4	97	0.00
52 T	Tetrachloroethene	0.393	0.356	9.4	93	0.00
53 T	Toluene	1.018	1.056	-3.7	92	0.00
54 T	1,2-Dibromoethane	0.527	0.569	-8.0	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
56	1,1,1,2-Tetrachloroethane	0.520	0.603	-16.0	104	0.00
57 T	Chlorobenzene	0.968	1.059	-9.4	100	0.00
58 T	Ethyl Benzene	1.579	1.757	-11.3	94	0.00
59 T	m/p-Xylene	1.262	1.512	-19.8	102	0.00
60 T	o-Xylene	1.261	1.496	-18.6	101	0.00
61 T	Styrene	0.531	0.592	-11.5	88	0.00
62	Isopropylbenzene	1.860	2.141	-15.1	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.910	-12.3	109	0.00
64	n-propylbenzene	0.485	0.579	-19.4	103	0.00
65	tert-Butylbenzene	1.652	1.955	-18.3	101	0.00
66 T	Benzyl Chloride	0.136	0.193	-41.9#	101	0.00
67	sec-Butylbenzene	2.350	2.748	-16.9	103	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.826	-4.3	86	0.00
69	p-Isopropyltoluene	1.916	2.346	-22.4	101	0.00
70	n-Butylbenzene	1.851	2.399	-29.6	103	0.00
71	2-Chlorotoluene	1.426	1.642	-15.1	98	0.00
72 T	4-Ethyltoluene	1.506	1.838	-22.0	100	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.545	-24.6	101	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.736	-28.3	104	0.00
75 T	1,3-Dichlorobenzene	0.948	1.102	-16.2	103	0.00
76 T	1,4-Dichlorobenzene	0.928	1.116	-20.3	104	0.00
77 T	1,2-Dichlorobenzene	0.932	1.086	-16.5	106	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.863	-2.3	101	0.00
79 T	Naphthalene	0.958	1.606	-67.6#	94	0.00
80 T	Naphthalene,2-methyl-	0.326	0.581	-78.2#	70	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.894	-40.8#	93	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042825.D
 Acq On : 07 Aug 2025 09:53
 Operator : SY/MD
 Sample : VL0807ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0807ABL01

Quant Time: Aug 08 01:13:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	143339	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	368987	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.869	117	317212	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	239316	9.526	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%

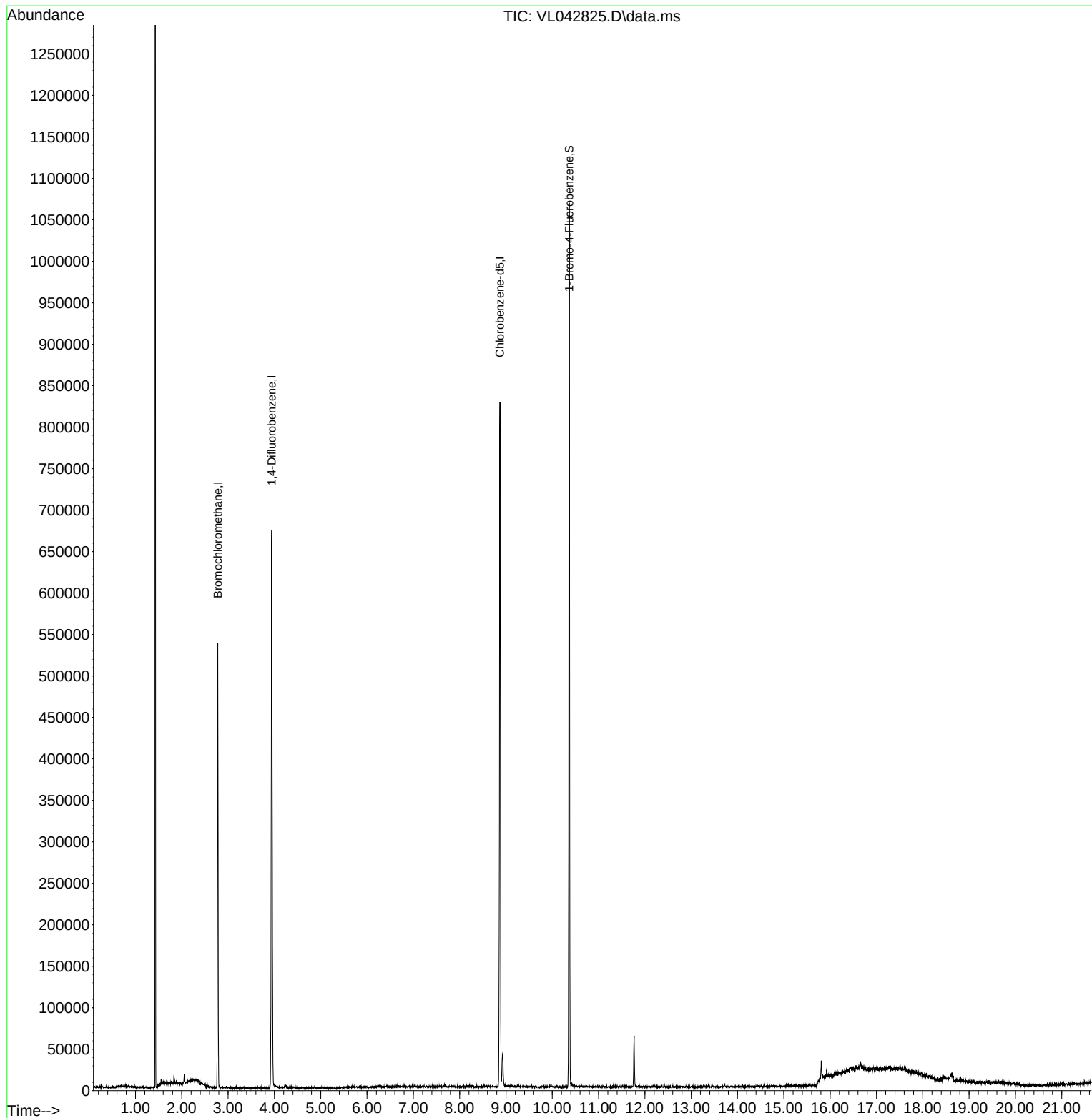
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042825.D
Acq On : 07 Aug 2025 09:53
Operator : SY/MD
Sample : VL0807ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0807ABL01

Quant Time: Aug 08 01:13:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042826.D
 Acq On : 07 Aug 2025 10:28
 Operator : SY/MD
 Sample : VL0807ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0807ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2025
 Supervised By : Mahesh Dadoda 08/11/2025

Quant Time: Aug 08 01:14:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 8 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	163078	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	435612	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	401123	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 317585 9.998 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	221327	10.265	ppbv	100
3) Chlorodifluoromethane	1.473	51	282700	10.065	ppbv	99
4) Chloromethane	1.531	50	91182	10.453	ppbv	96
5) Vinyl Chloride	1.576	62	75928	8.810	ppbv	96
6) Bromomethane	1.664	94	34195	10.263	ppbv	97
7) Chloroethane	1.703	64	31294	9.398	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	178331	10.057	ppbv	95
9) Propene	1.483	41	89987	8.815	ppbv	99
10) Heptane	4.968	43	287803	10.456	ppbv	98
11) Trichlorofluoromethane	1.874	101	225426	10.143	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	172568	10.217	ppbv	100
13) Ethanol	1.719	45	8069	9.704	ppbv	97
14) Bromoethene	1.780	108	58076	9.712	ppbv	98
15) Acetone	1.832	43	187111	8.309	ppbv	99
16) 1,3-Butadiene	1.606	39	94575	9.846	ppbv	98
17) tert-Butyl alcohol	2.036	59	189179	9.315	ppbv	99
18) 1,1-Dichloroethene	2.030	96	72759	9.534	ppbv	93
19) Isopropyl Alcohol	1.881	45	112862	9.431	ppbv	96
20) Methylene Chloride	2.059	84	63646	8.969	ppbv	93
21) Allyl Chloride	2.091	41	140315	10.110	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	84334	10.273	ppbv	97
23) Vinyl Acetate	2.457	43	296210	10.850	ppbv	99
24) 1,1-Dichloroethane	2.405	63	171053	10.151	ppbv	99
25) Ethyl Acetate	2.826	43	515118	10.335	ppbv	100
26) Hexane	2.819	57	218093	9.974	ppbv	96
27) Carbon Disulfide	2.146	76	200363	10.704	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	96403	9.333	ppbv	99
29) Chloroform	2.842	83	357107	10.569	ppbv	99
30) Cyclohexane	3.849	84	182334	9.832	ppbv	95
31) cis-1,2-Dichloroethene	2.716	61	209844	9.339	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	336916	9.573	ppbv	99
34) 2-Butanone	2.551	43	332116	10.763	ppbv	100
35) Carbon Tetrachloride	3.755	117	368245	11.381	ppbv	96
36) Benzene	3.648	78	433049	10.489	ppbv	99
37) 1,2-Dichloroethane	3.211	62	270211	10.865	ppbv	99
38) Trichloroethene	4.538	130	193655	9.764	ppbv	94
39) 1,2-Dichloropropane	4.305	63	161290	10.584	ppbv	98
40) 1,4-Dioxane	4.574	88	63503	8.940	ppbv #	93
41) Tetrahydrofuran	3.046	42	171292	10.909	ppbv	97
42) Bromodichloromethane	4.480	83	372605	11.504	ppbv	99
43) Methyl Methacrylate	4.865	69	158894	10.828	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	761571	11.318	ppbv	97
45) t-1,3-Dichloropropene	6.402	75	169903	10.325	ppbv #	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042826.D
 Acq On : 07 Aug 2025 10:28
 Operator : SY/MD
 Sample : VL0807ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0807ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2025
 Supervised By : Mahesh Dadoda 08/11/2025

Quant Time: Aug 08 01:14:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 8 2025

QLast Update : Thu Jul 24 05:24:41 2025

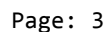
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	217713	10.441	ppbv	97
47) 1,1,2-Trichloroethane	6.571	97	177555	10.930	ppbv	98
48) Dibromochloromethane	7.377	129	297112	11.521	ppbv	99
49) Bromoform	9.477	173	272013	12.097	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	450417	11.332	ppbv	98
51) 2-Hexanone	7.425	43	364529	12.136	ppbv #	96
52) Tetrachloroethene	8.215	164	161270	9.424	ppbv	97
53) Toluene	6.920	91	472628	10.661	ppbv	100
54) 1,2-Dibromoethane	7.645	107	253899	11.062	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.917	131	232289	11.138	ppbv	99
57) Chlorobenzene	8.914	112	413000	10.639	ppbv #	96
58) Ethyl Benzene	9.348	91	689053	10.878	ppbv	97
59) m/p-Xylene	9.526	91	1184650m	23.401	ppbv	
60) o-Xylene	9.959	91	585863	11.581	ppbv	100
61) Styrene	9.866	104	231979	10.901	ppbv	100
62) Isopropylbenzene	10.532	105	849097	11.379	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	352721	10.861	ppbv	100
64) n-propylbenzene	10.985	120	230126	11.830	ppbv	98
65) tert-Butylbenzene	11.526	119	773412	11.669	ppbv	100
66) Benzyl Chloride	11.610	91	75088	13.800	ppbv	98
67) sec-Butylbenzene	11.762	105	1086111	11.522	ppbv	100
69) p-Isopropyltoluene	11.921	119	913994	11.891	ppbv	100
70) n-Butylbenzene	12.277	91	930859	12.537	ppbv	99
71) 2-Chlorotoluene	10.895	91	644792	11.270	ppbv	99
72) 4-Ethyltoluene	11.118	105	721006	11.935	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	604864	12.160	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	681545	12.559	ppbv	95
75) 1,3-Dichlorobenzene	11.600	146	431639	11.346	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	432007	11.605	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	425471	11.379	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	341222	10.083	ppbv	99
79) Naphthalene	13.507	128	630516	10.677	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	218244	7.704	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	346617	10.453	ppbv	99

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

Manual Integrations

Quant Time: Aug 08 01:14:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042828.D
 Acq On : 07 Aug 2025 11:34
 Operator : SY/MD
 Sample : QC080425 CAN 10608
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC080425 CAN 10608

Quant Time: Aug 08 01:15:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	159509	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	409935	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	347427	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	258713	9.403	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.000%

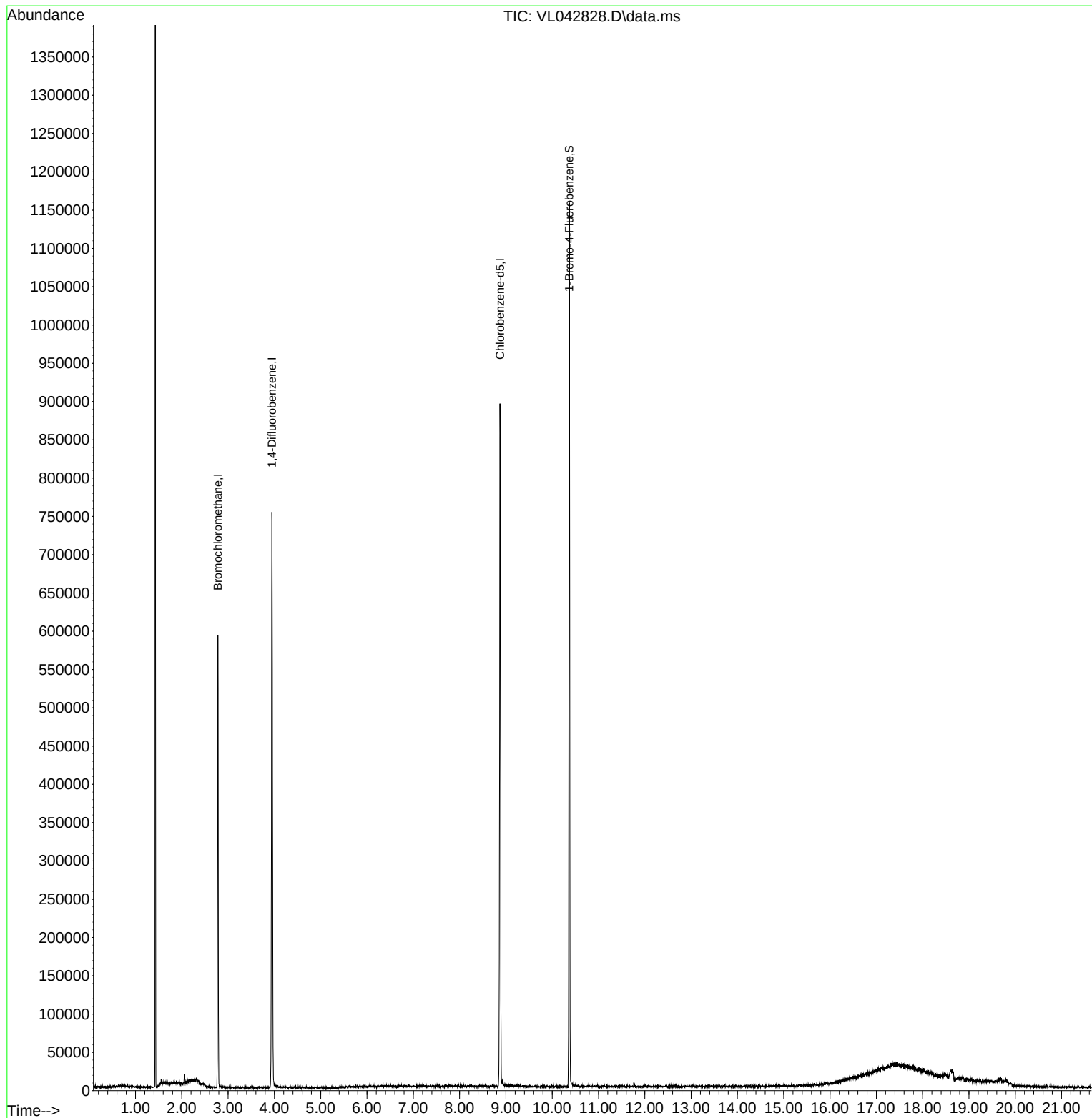
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042828.D
Acq On : 07 Aug 2025 11:34
Operator : SY/MD
Sample : QC080425 CAN 10608
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC080425 CAN 10608

Quant Time: Aug 08 01:15:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM		
Supervise By	Maresh Dadoda	Supervise On	7/24/2025 2:21:30 PM		
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2645			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2645			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042746.D	23 Jul 2025 08:00	SY/MD	Ok
2	VSTDICCC010	VL042747.D	23 Jul 2025 08:58	SY/MD	Ok,M
3	VSTDICCC002	VL042748.D	23 Jul 2025 09:34	SY/MD	Ok,M
4	VSTDICCC001	VL042749.D	23 Jul 2025 10:08	SY/MD	Ok,M
5	VSTDICCC0.5	VL042750.D	23 Jul 2025 10:42	SY/MD	Ok,M
6	VSTDICCC0.1	VL042751.D	23 Jul 2025 11:16	SY/MD	Not Ok
7	VSTDICCC0.03	VL042752.D	23 Jul 2025 11:50	SY/MD	Ok,M
8	VSTDICCC015	VL042753.D	23 Jul 2025 12:26	SY/MD	Ok,M
9	VSTDICCC0.1	VL042754.D	23 Jul 2025 13:00	SY/MD	Ok,M
10	VSTDICCV010	VL042755.D	23 Jul 2025 14:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL080725

Review By	Semsettin Yesilyurt	Review On	8/8/2025 3:06:52 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/11/2025 3:17:11 PM		
SubDirectory	VL080725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2645			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2645			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042823.D	07 Aug 2025 07:42	SY/MD	Ok
2	VSTDCCC010	VL042824.D	07 Aug 2025 08:27	SY/MD	Ok,M
3	VL0807ABL01	VL042825.D	07 Aug 2025 09:53	SY/MD	Ok
4	VL0807ABS01	VL042826.D	07 Aug 2025 10:28	SY/MD	Ok,M
5	VIBLK	VL042827.D	07 Aug 2025 11:01	SY/MD	Ok
6	QC080425 CAN 10608	VL042828.D	07 Aug 2025 11:34	SY/MD	Ok
7	QC072925 CAN 10283	VL042829.D	07 Aug 2025 12:07	SY/MD	Ok
8	CAN 10604	VL042830.D	07 Aug 2025 12:39	SY/MD	Ok

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

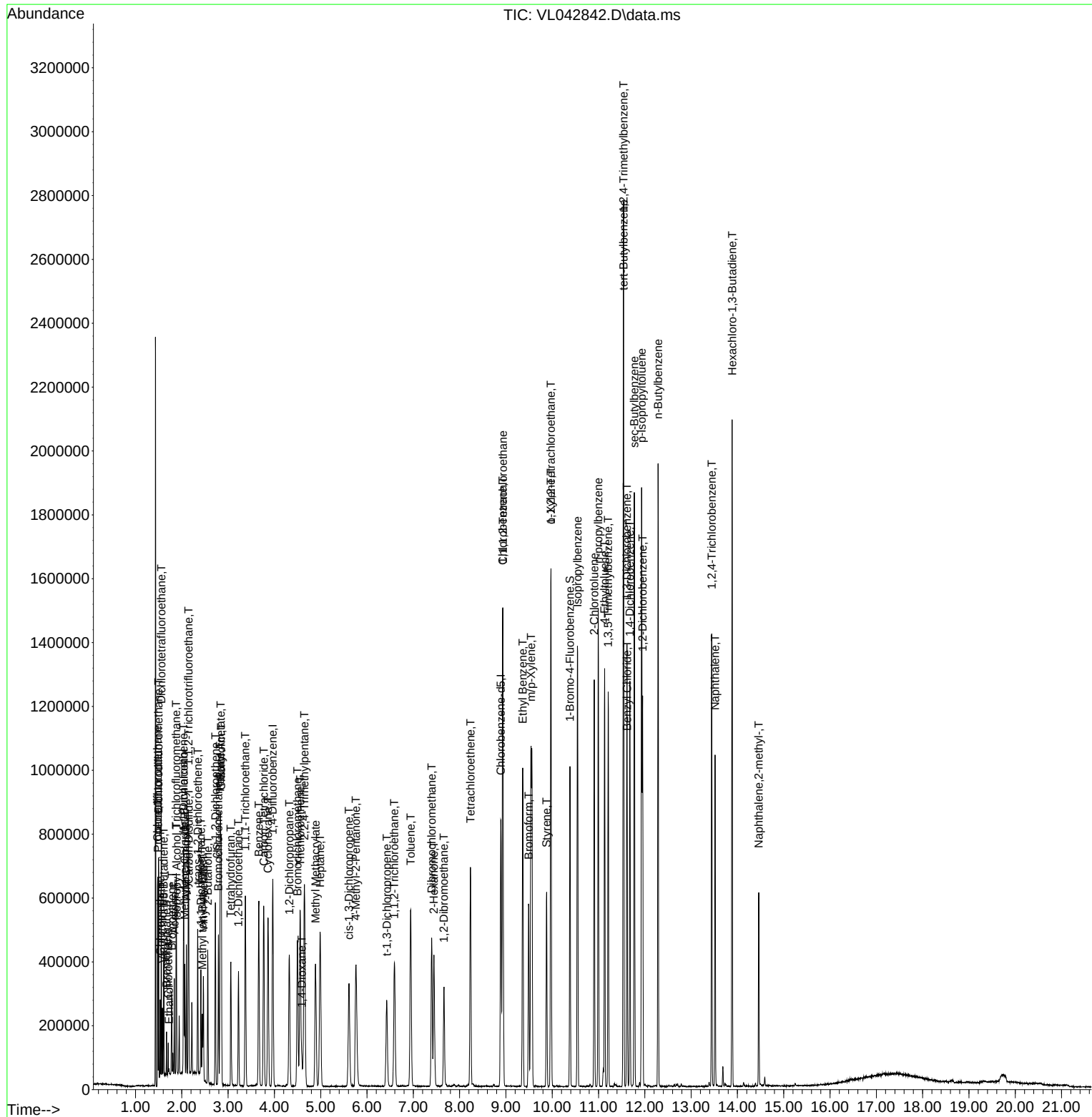
Quant Time: Aug 14 01:45:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

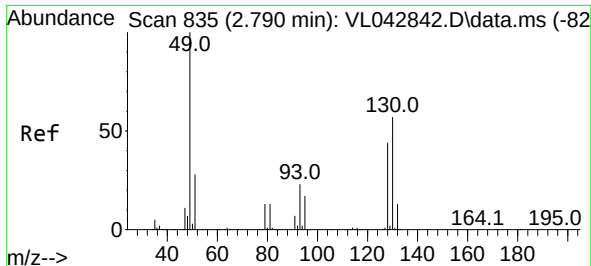
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	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

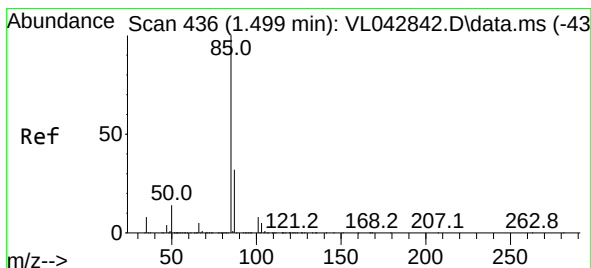
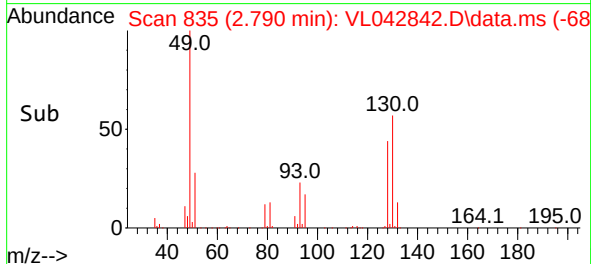
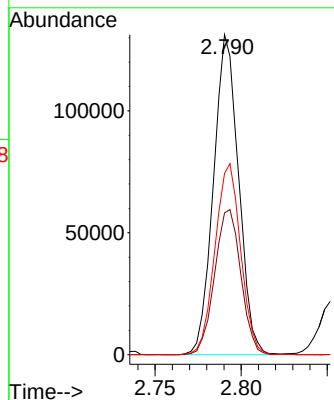
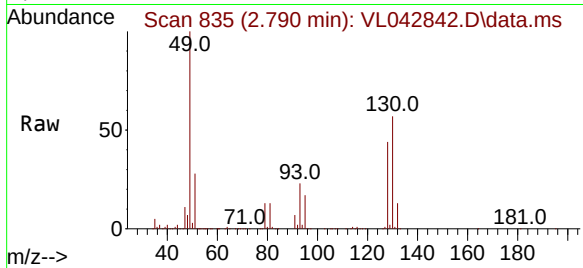




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

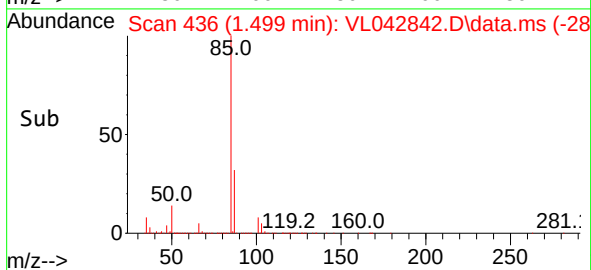
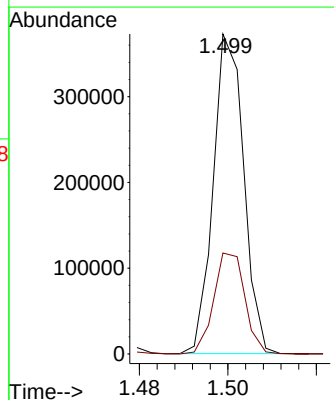
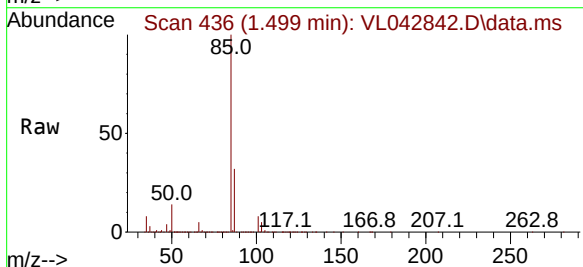
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

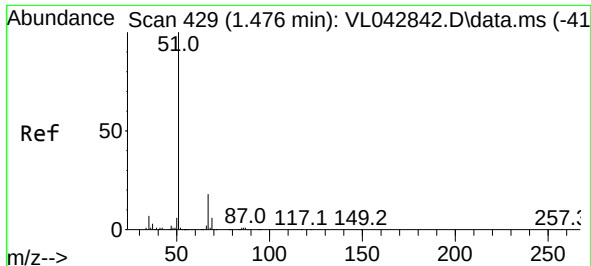
Tgt Ion: 49 Resp: 133104
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.7 71.1
 130 61.1 30.6 91.6



#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

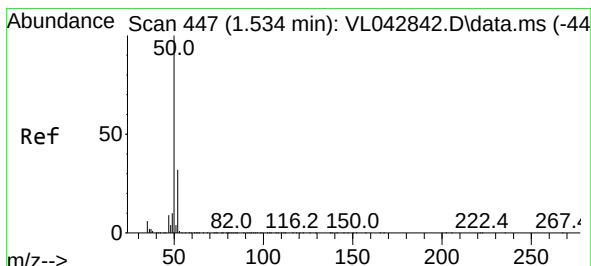
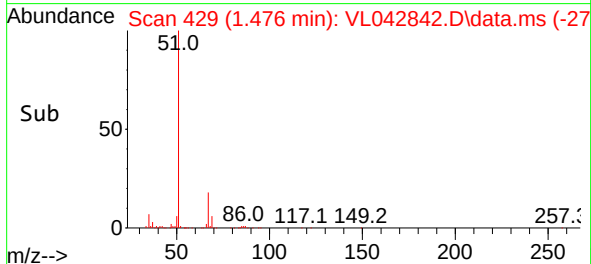
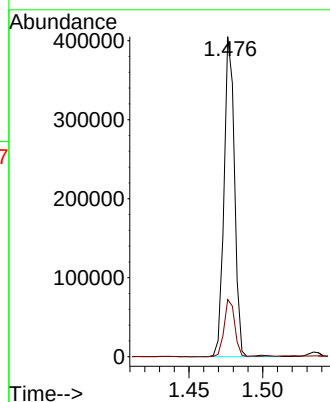
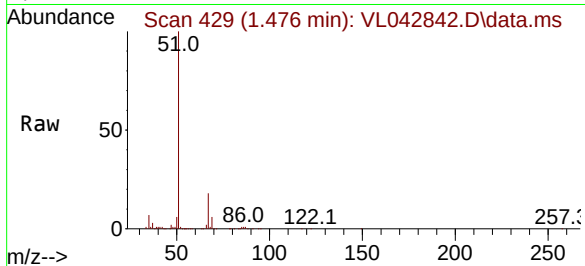




#3
 Chlorodifluoromethane
 Concen: 9.306 ppbv
 RT: 1.476 min Scan# 429
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

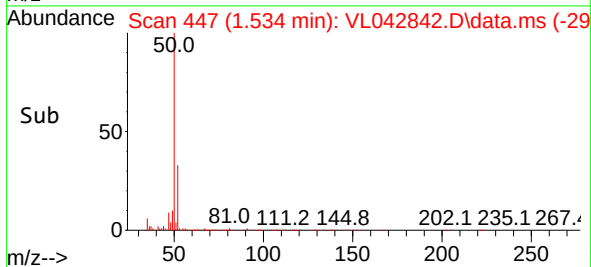
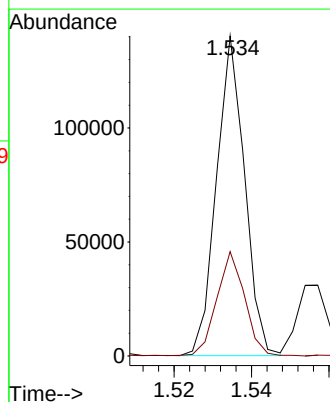
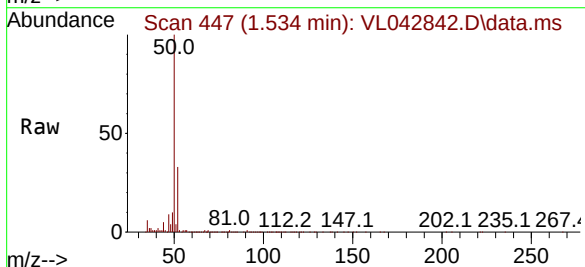
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

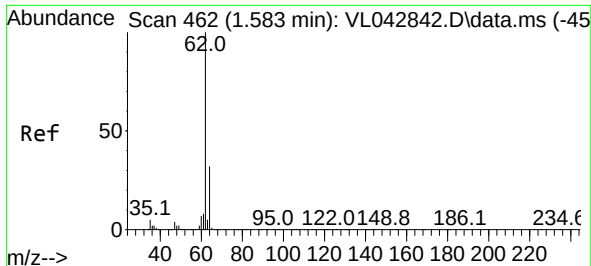
Tgt Ion: 51 Resp: 200866
 Ion Ratio Lower Upper
 51 100
 67 18.6 14.9 22.3



#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

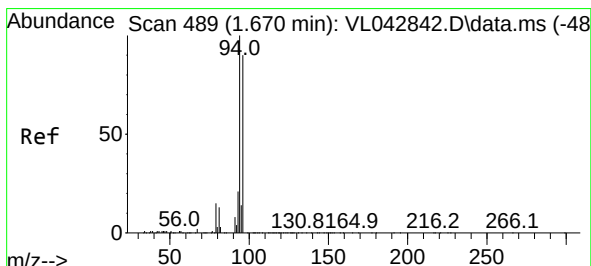
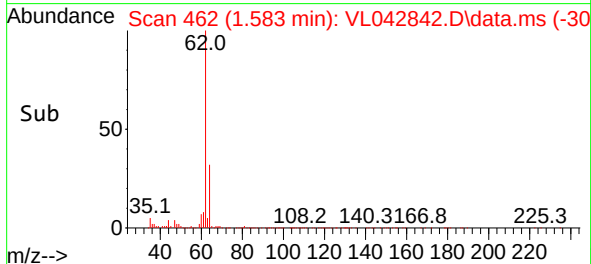
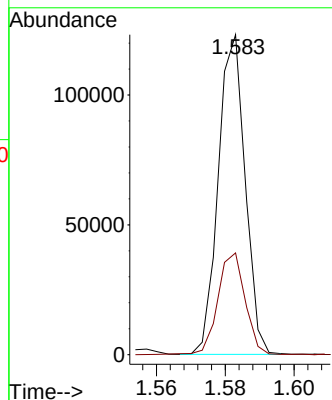
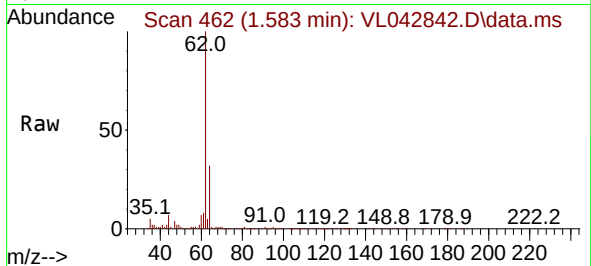




#5
 Vinyl Chloride
 Concen: 8.612 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

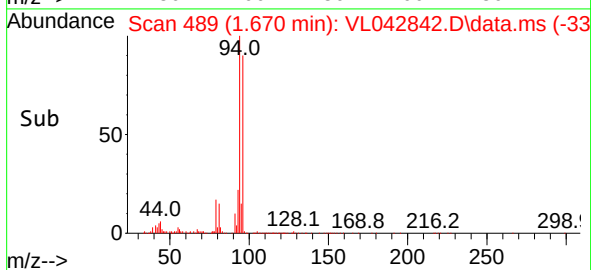
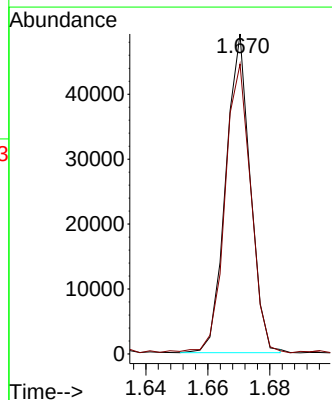
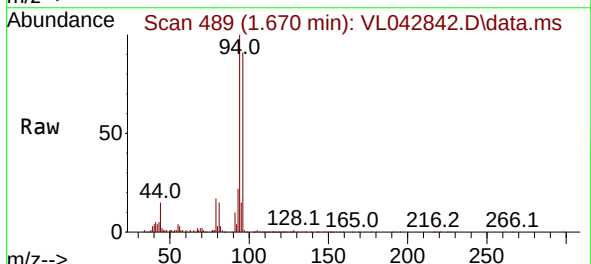
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

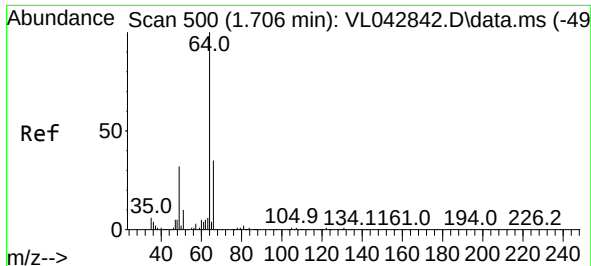
Tgt Ion: 62 Resp: 66768
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2



#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

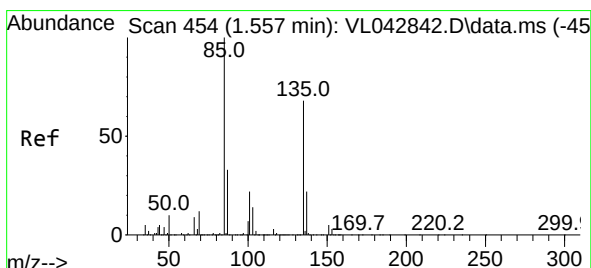
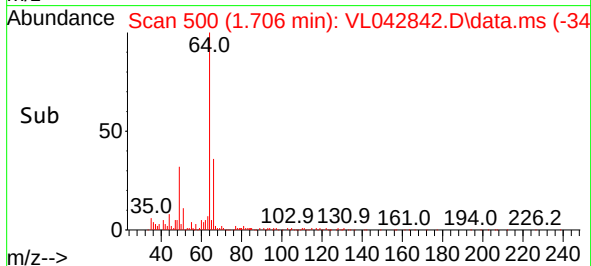
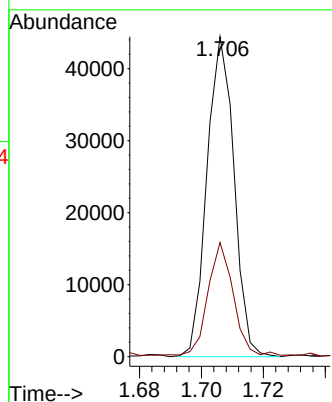
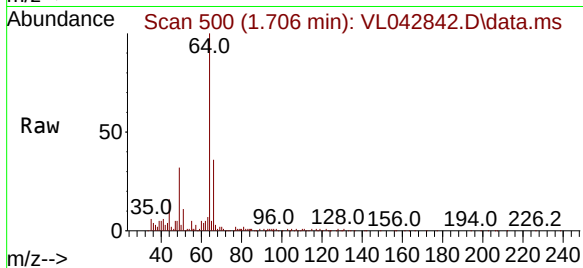




#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

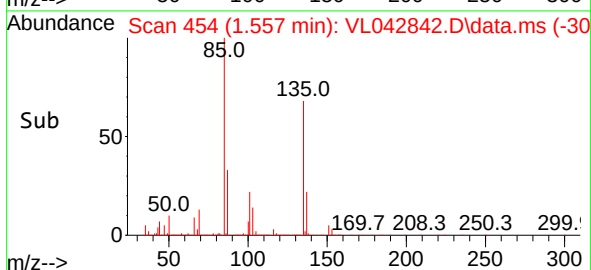
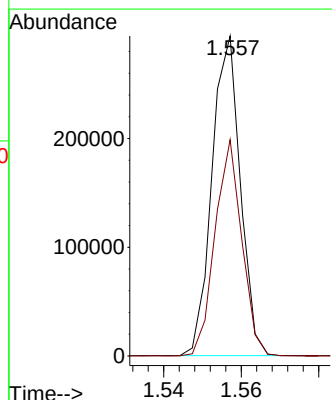
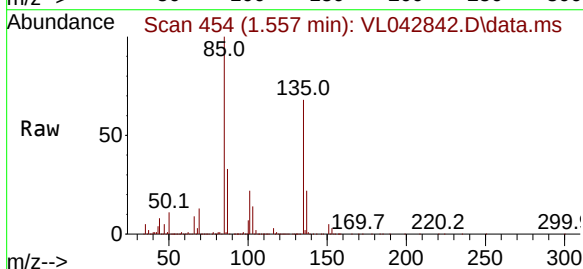
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

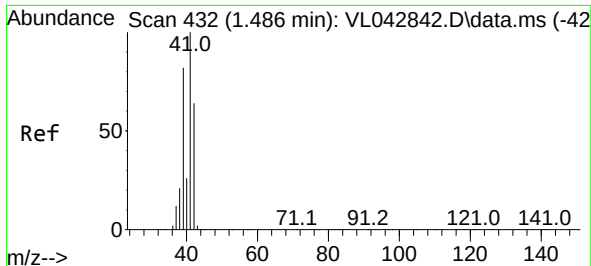
Tgt Ion: 64 Resp: 26884
Ion Ratio Lower Upper
64 100
66 35.7 28.6 42.8



#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 :

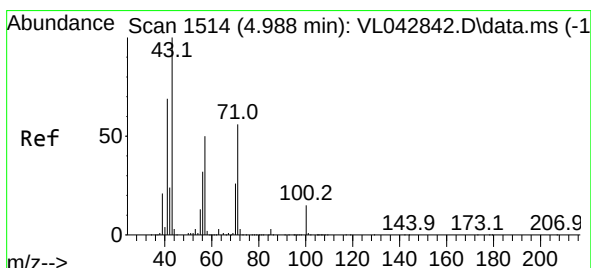
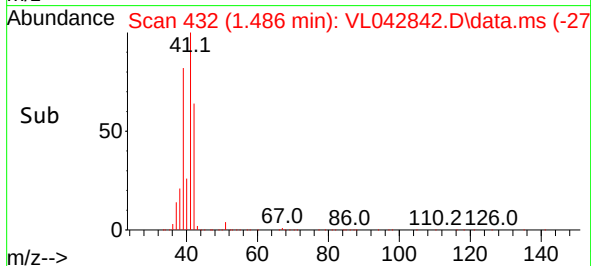
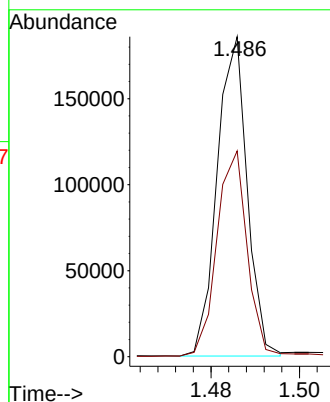
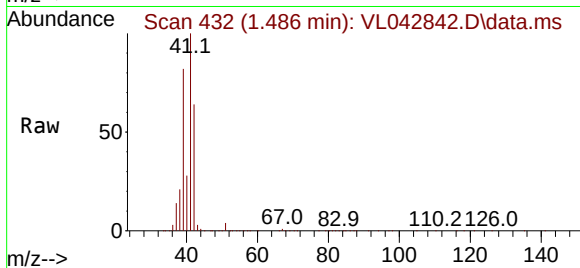
VSTDICCC010

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

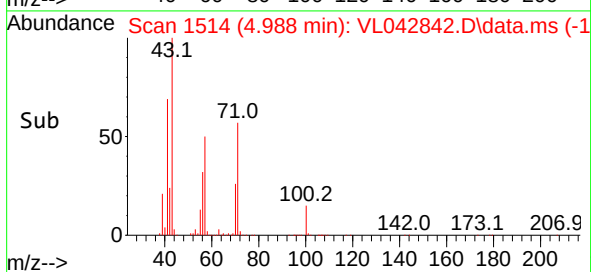
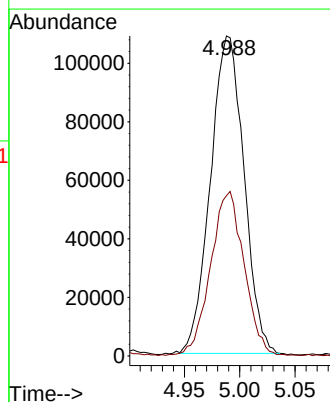
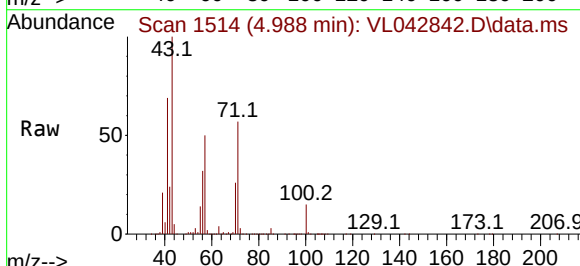
Acq: 13 Aug 2025 08:30

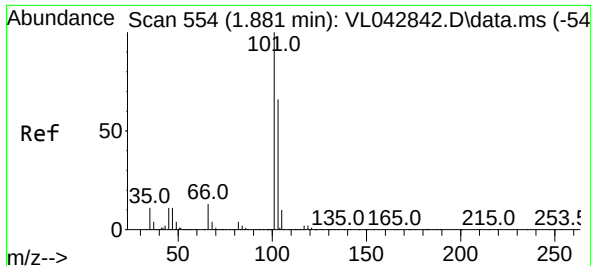
Tgt Ion: 43 Resp: 228679

Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0

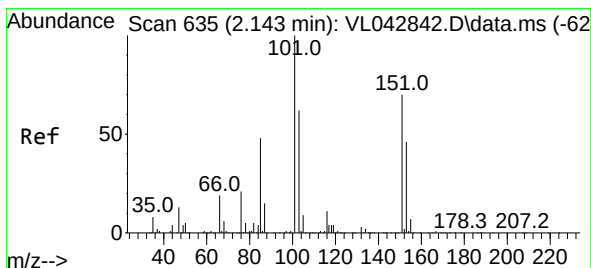
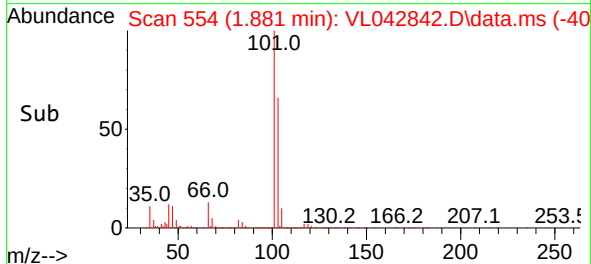
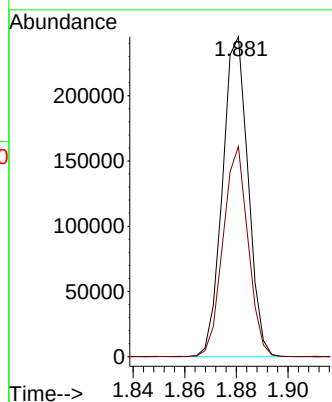
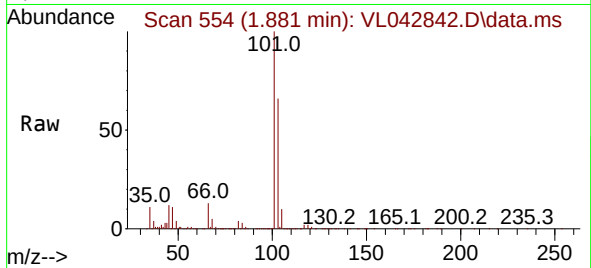




#11
 Trichlorofluoromethane
 Concen: 8.789 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

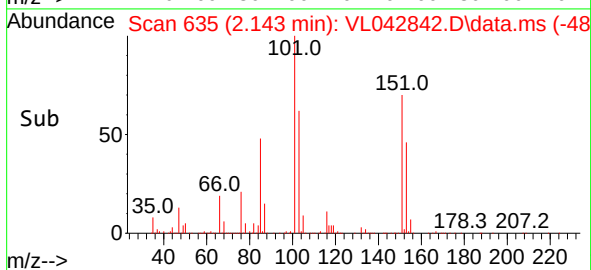
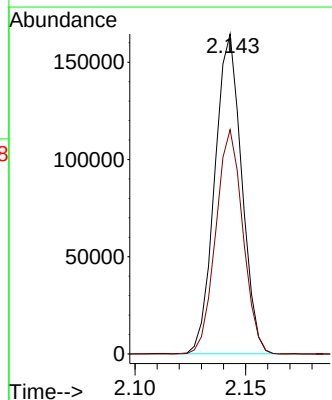
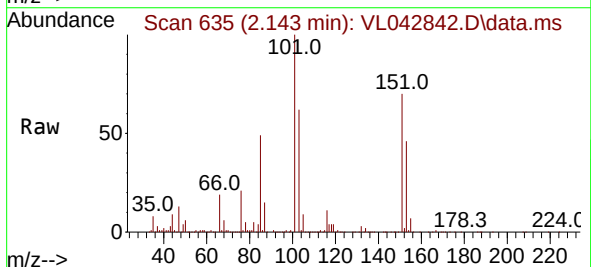
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

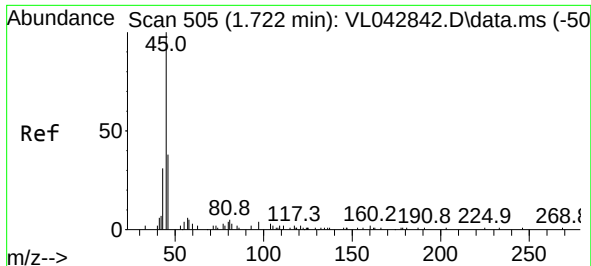
Tgt Ion:101 Resp: 169157
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.5 78.7



#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

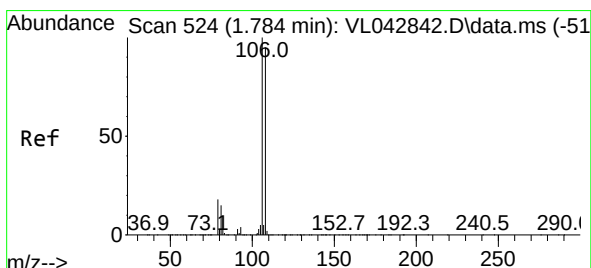
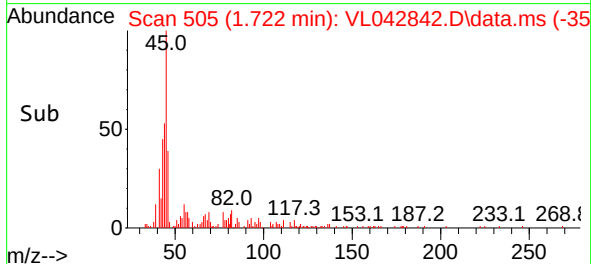
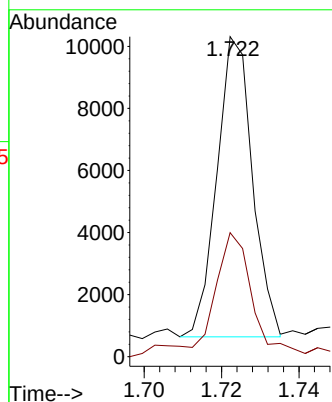
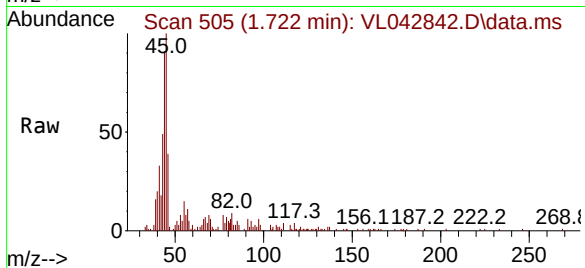




#13
Ethanol
Concen: 6.690 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

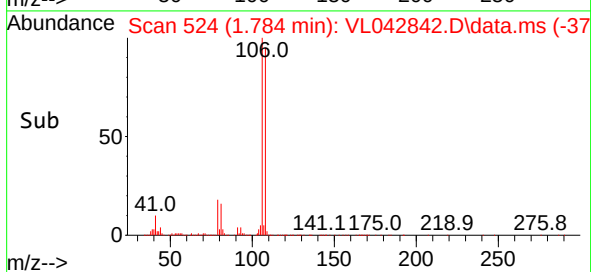
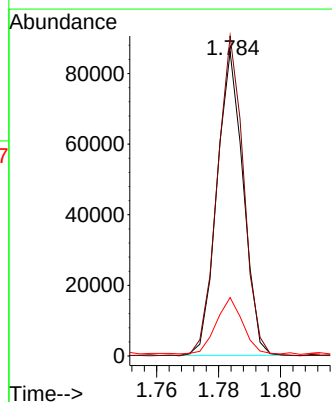
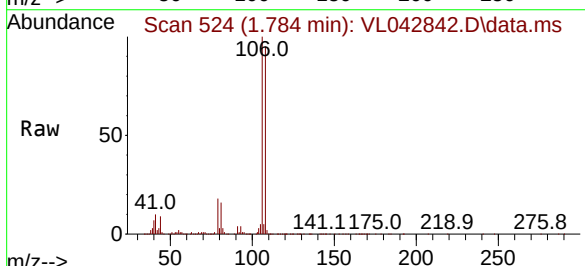
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

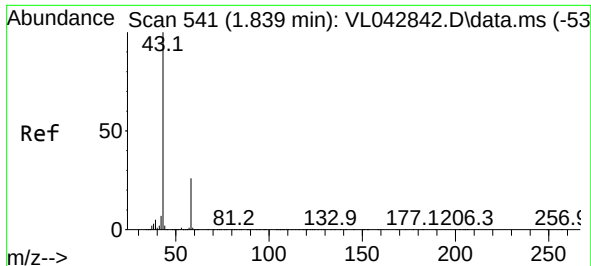
Tgt Ion: 45 Resp: 6172
Ion Ratio Lower Upper
45 100
46 43.7 17.5 69.9



#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

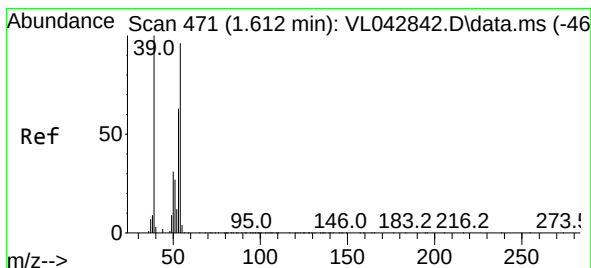
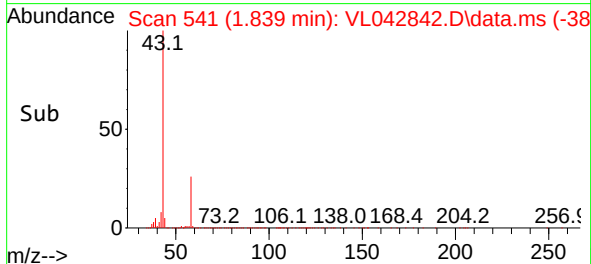
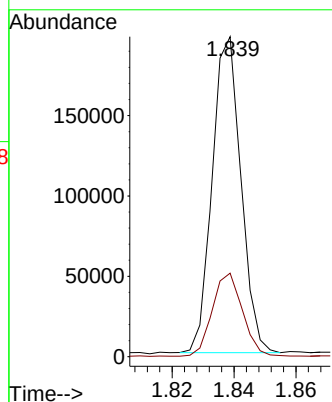
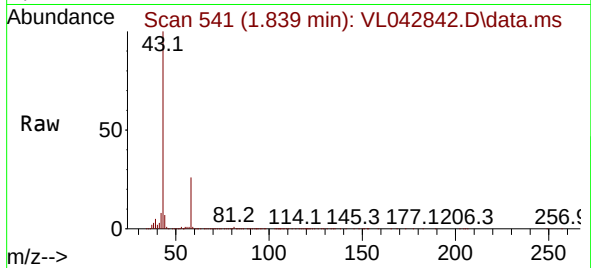




#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

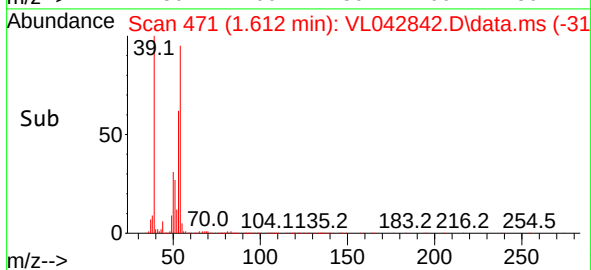
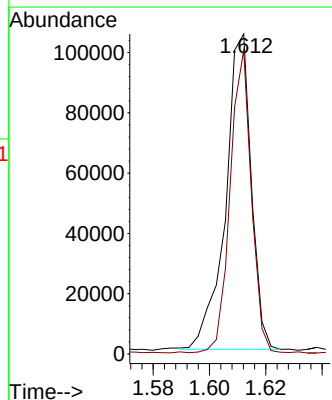
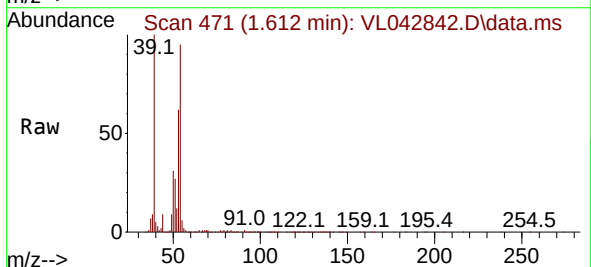
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MSVOA_L
ClientSampleId :
VSTDICCC010

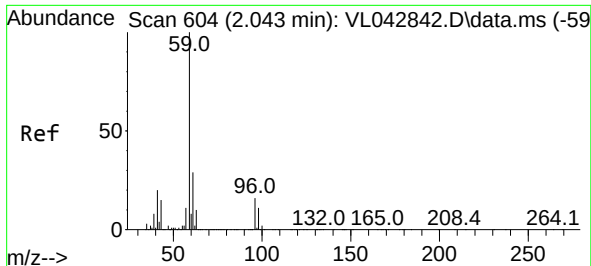
Tgt Ion: 43 Resp: 126419
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#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

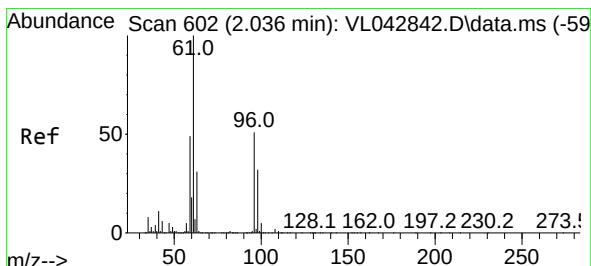
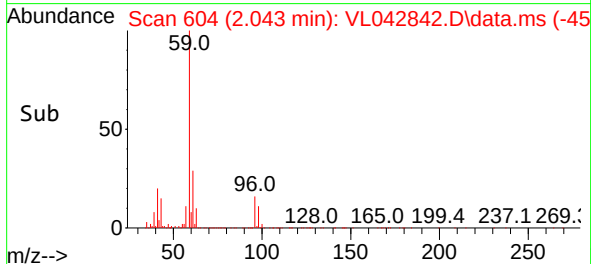
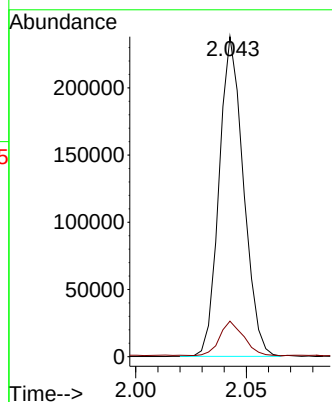
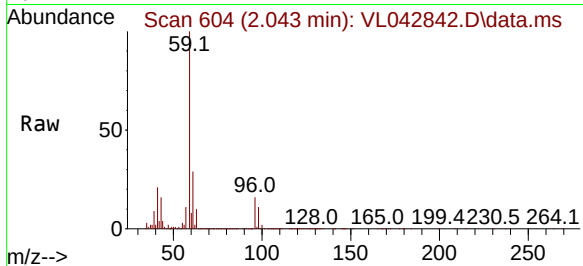




#17
tert-Butyl alcohol
Concen: 8.741 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

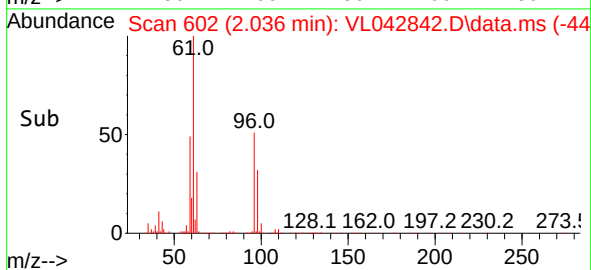
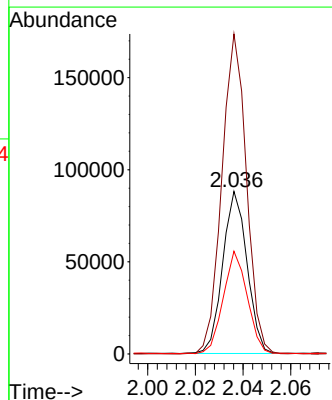
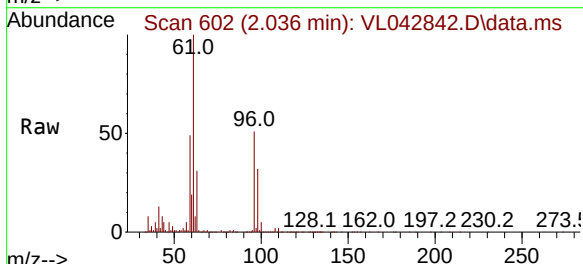
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

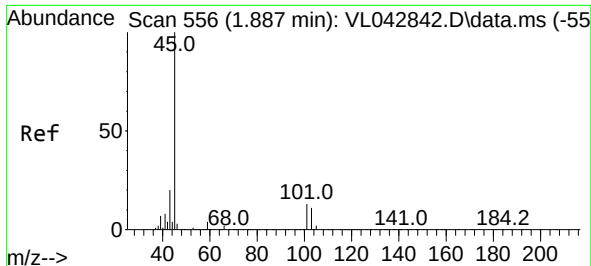
Tgt Ion: 59 Resp: 182511
Ion Ratio Lower Upper
59 100
57 11.2 9.0 13.4



#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

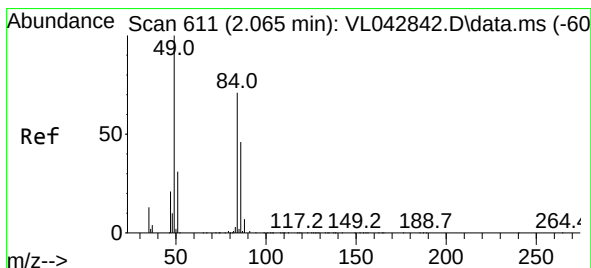
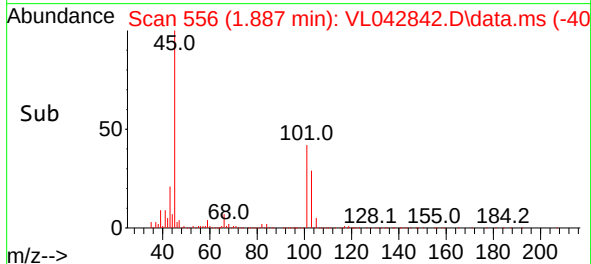
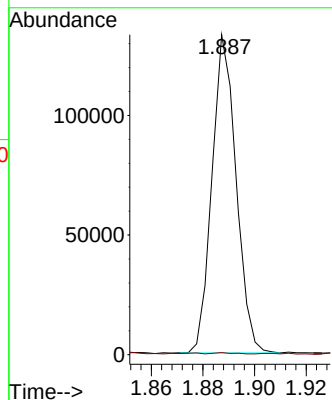
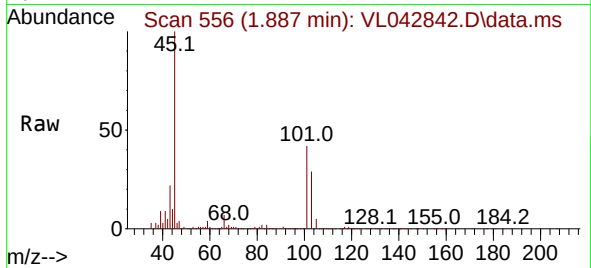




#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

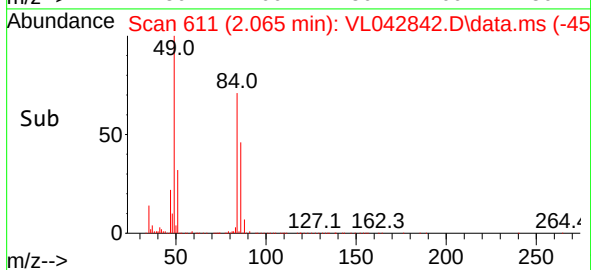
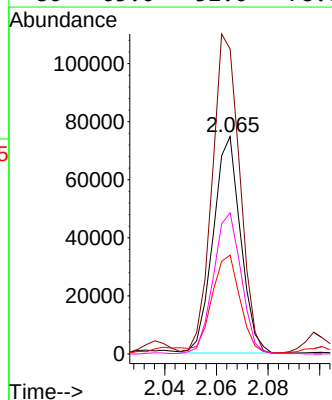
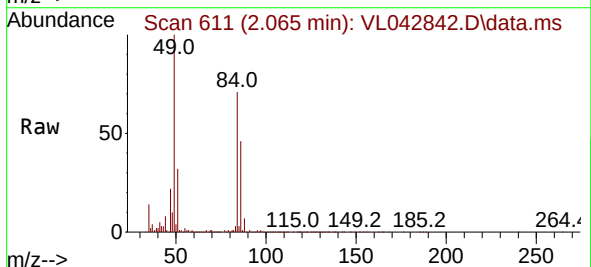
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

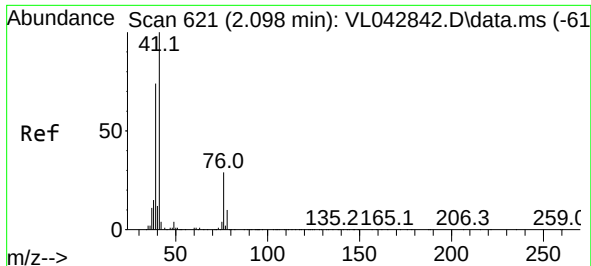
Tgt Ion: 45 Resp: 86367
Ion Ratio Lower Upper
45 100
58 40.9 32.7 49.1



#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

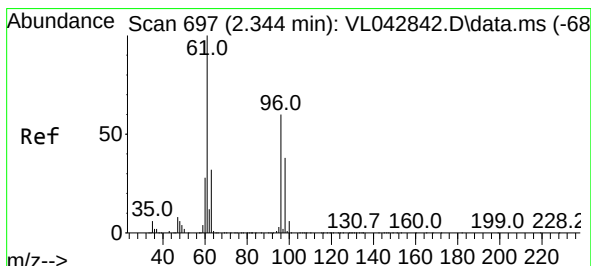
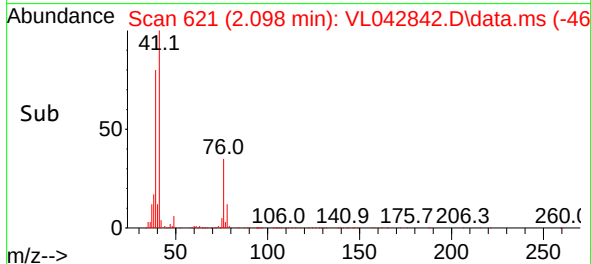
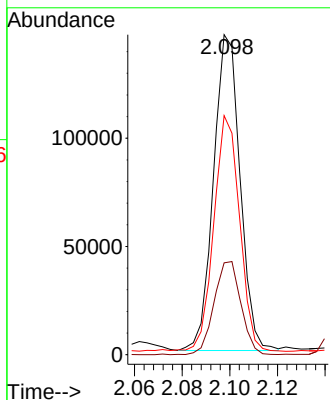
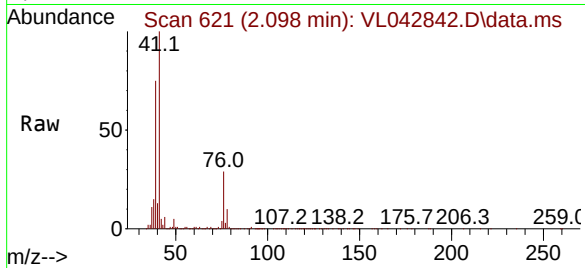




#21
 Allyl Chloride
 Concen: 9.093 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

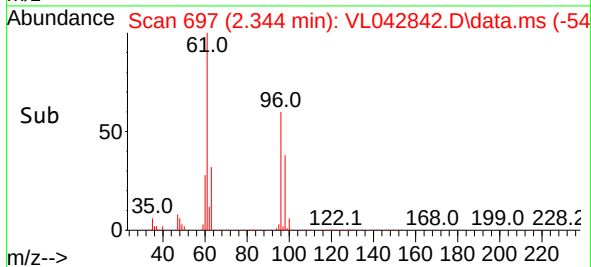
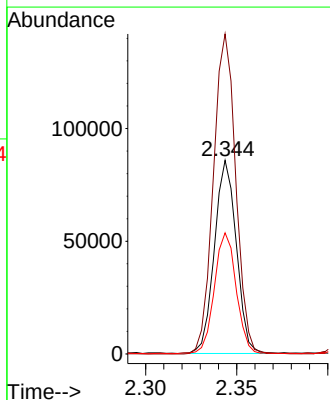
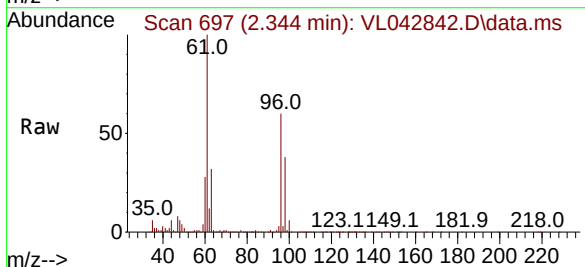
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

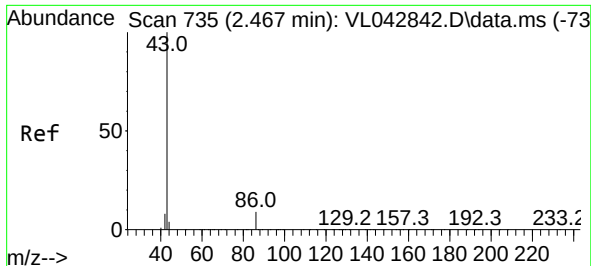
Tgt Ion: 41 Resp: 113105
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.9 35.9
 39 72.2 57.8 86.6



#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



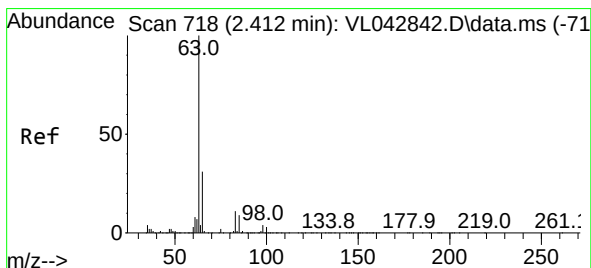
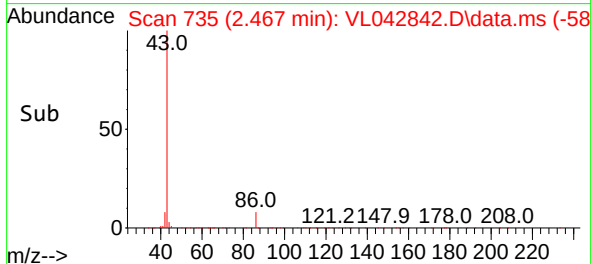
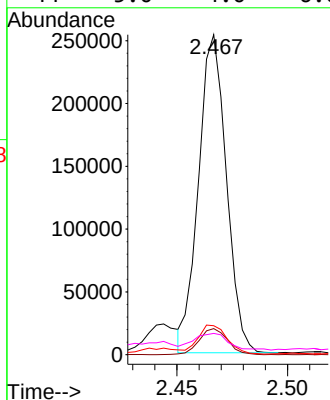
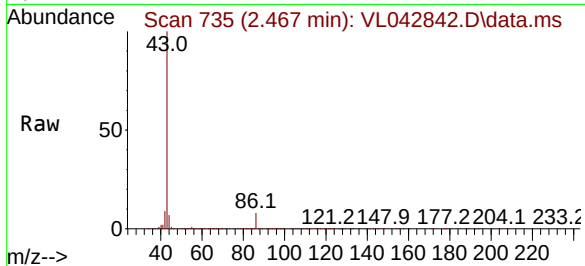


#23
 Vinyl Acetate
 Concen: 9.558 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 221395

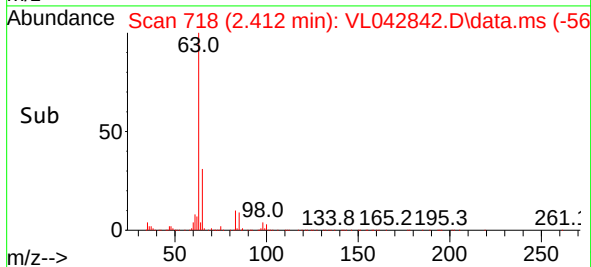
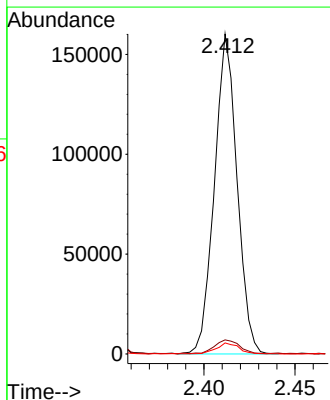
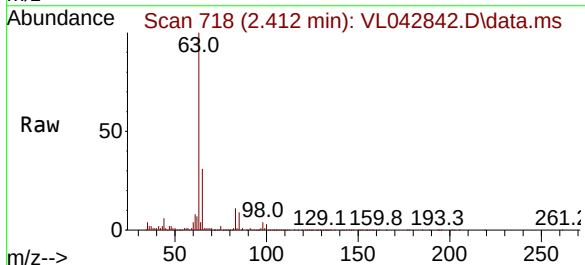
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.8	7.0	10.6
44	5.0	4.0	6.0

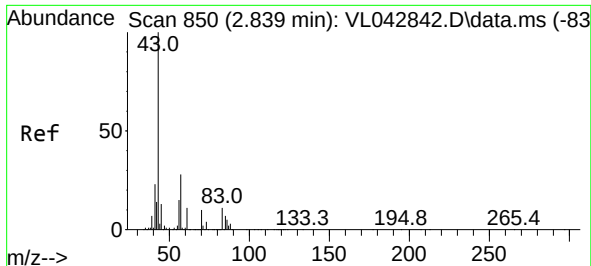


#24
 1,1-Dichloroethane
 Concen: 8.885 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

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

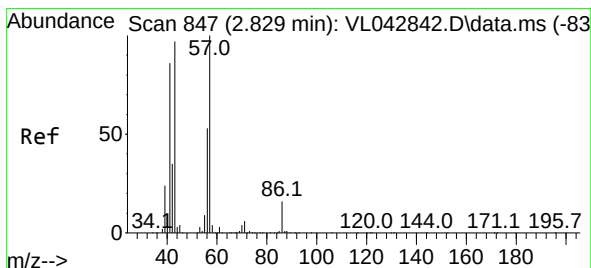
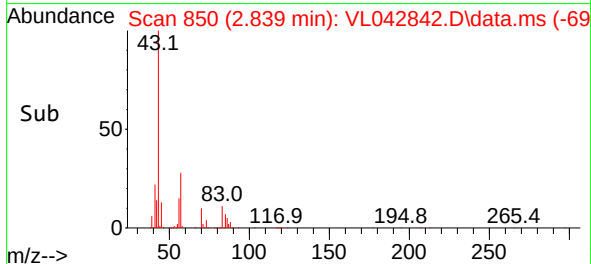
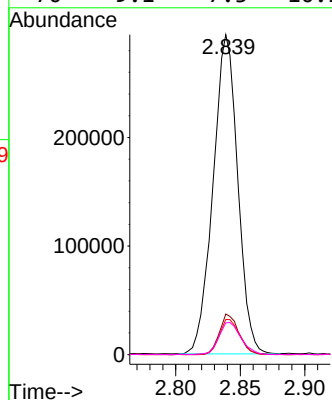
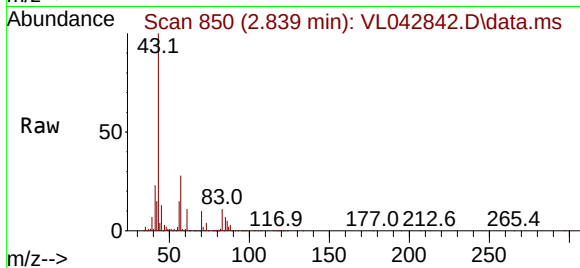




#25
Ethyl Acetate
Concen: 9.159 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

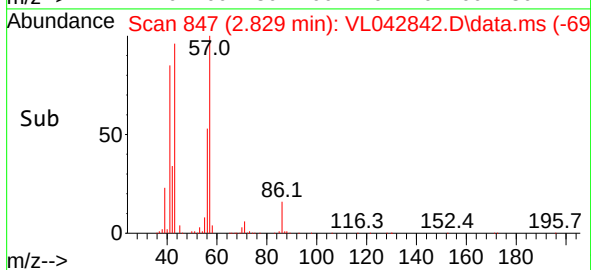
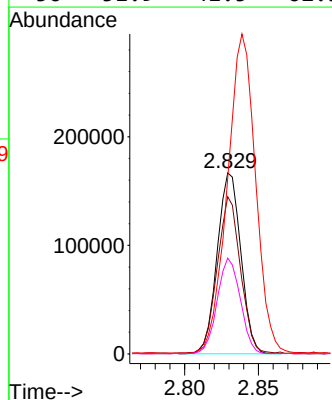
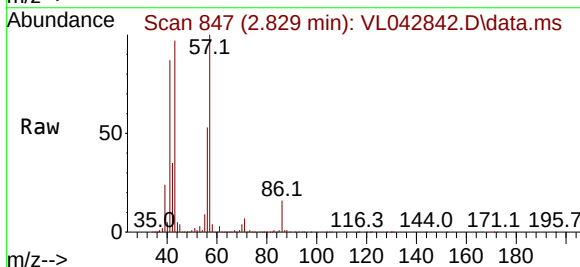
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

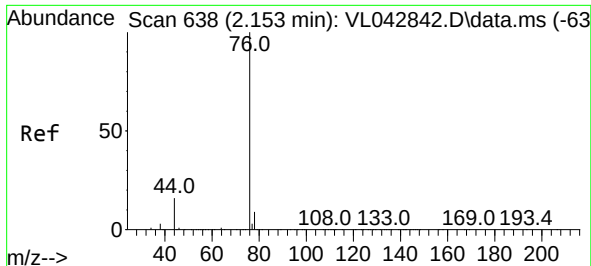
Tgt Ion:	43	Resp:	390295
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.3	7.4	11.2
70	9.1	7.3	10.9



#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

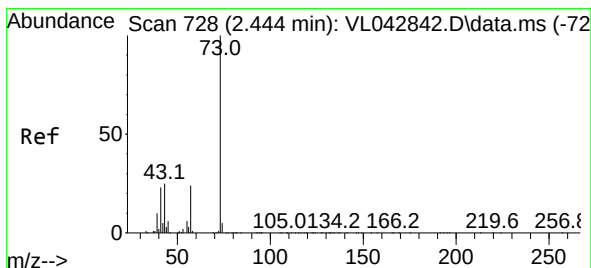
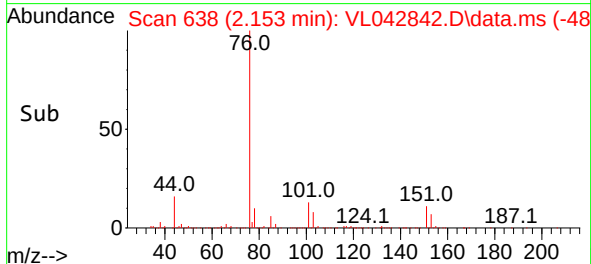
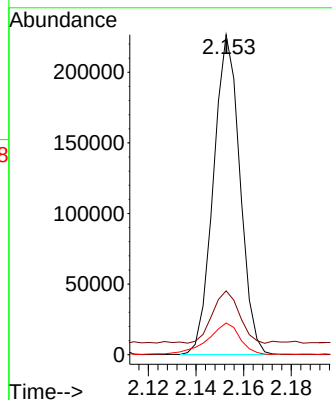
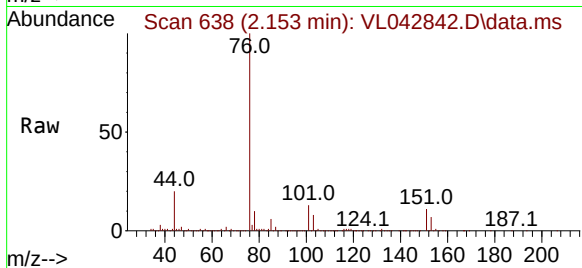
Tgt Ion: 76 Resp: 174928

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

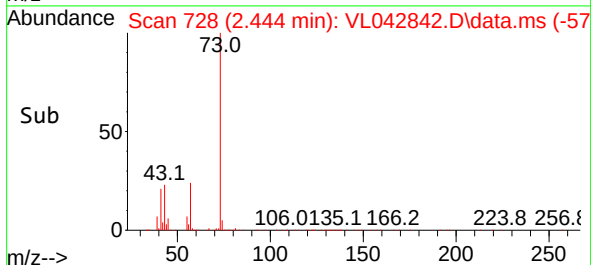
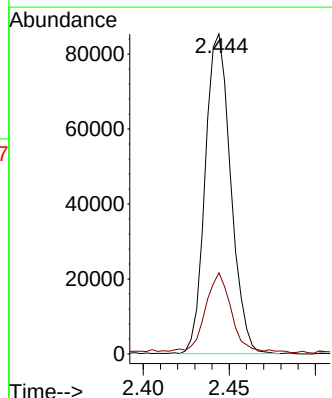
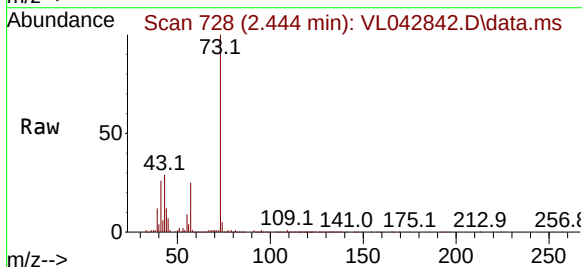
Acq: 13 Aug 2025 08:30

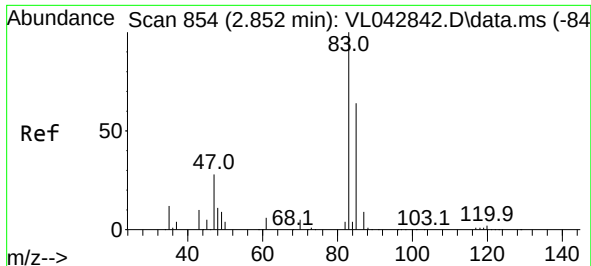
Tgt Ion: 73 Resp: 87929

Ion Ratio Lower Upper

73 100

57 27.0 21.6 32.4

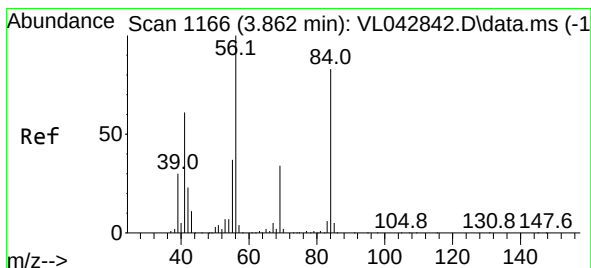
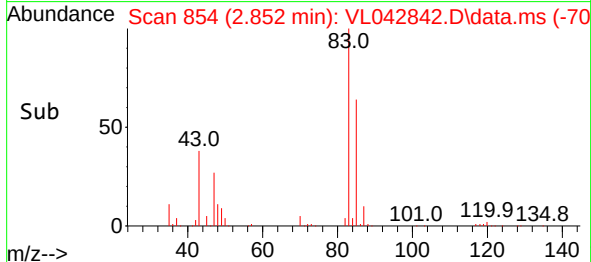
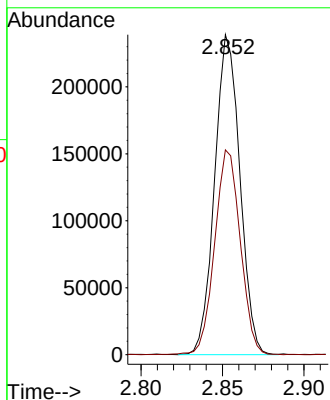
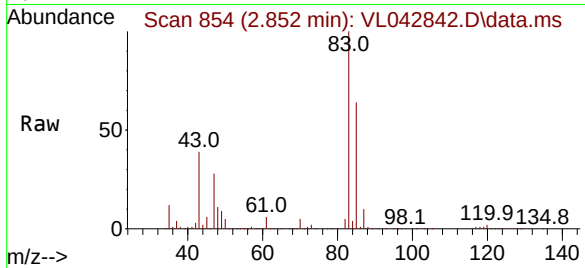




#29
Chloroform
Concen: 9.158 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

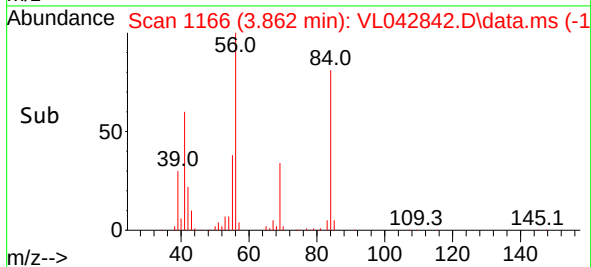
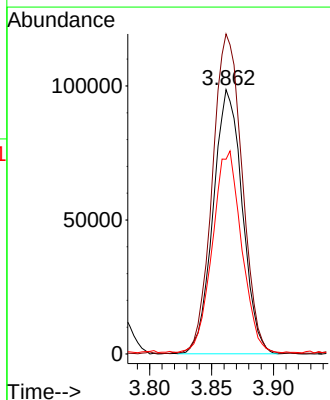
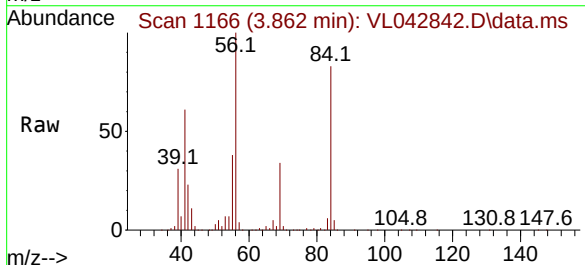
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

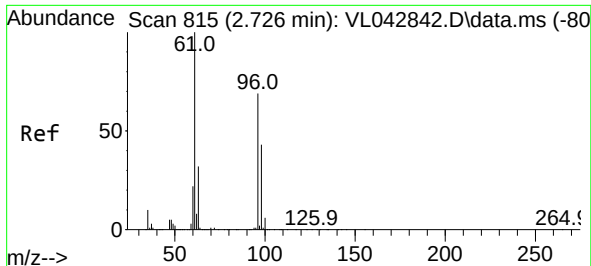
Tgt Ion: 83 Resp: 257176
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7



#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

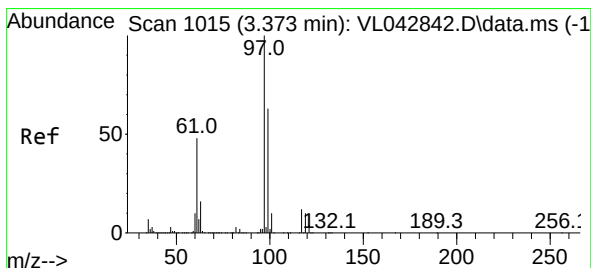
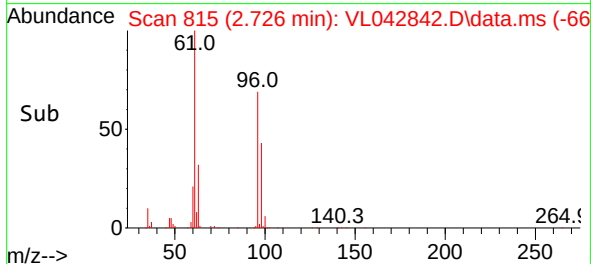
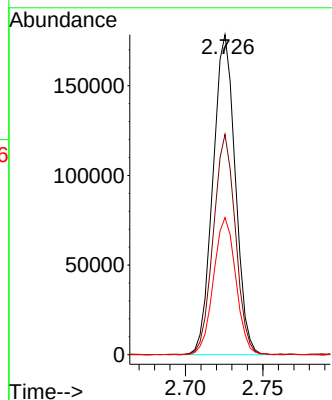
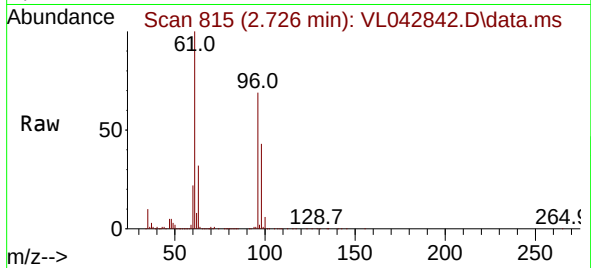




#31
 cis-1,2-Dichloroethene
 Concen: 9.107 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

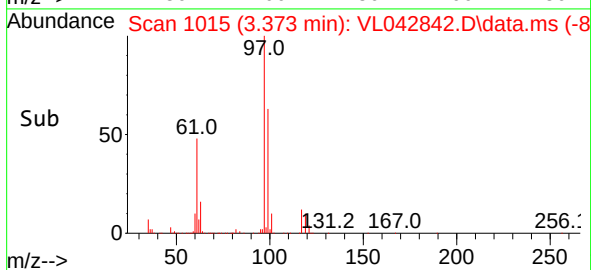
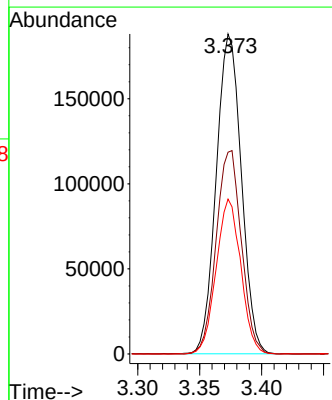
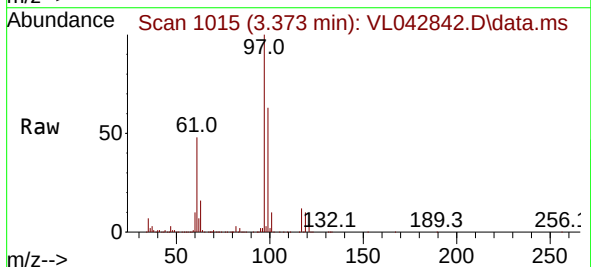
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

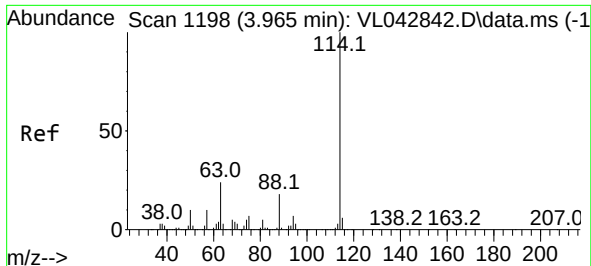
Tgt Ion: 61 Resp: 179162
 Ion Ratio Lower Upper
 61 100
 96 68.8 55.0 82.6
 98 42.9 34.3 51.5



#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

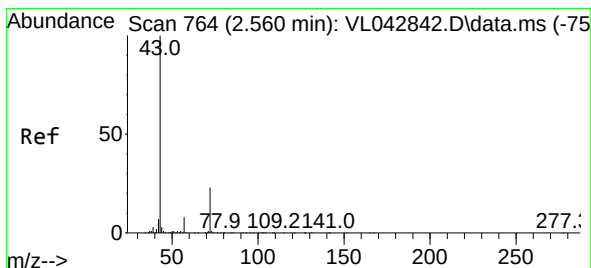
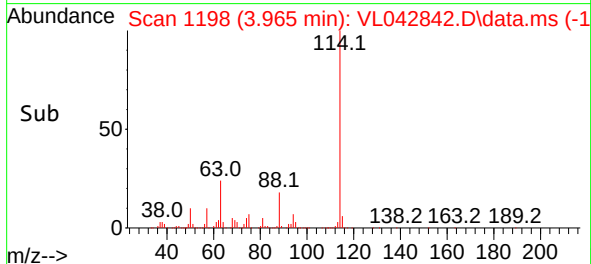
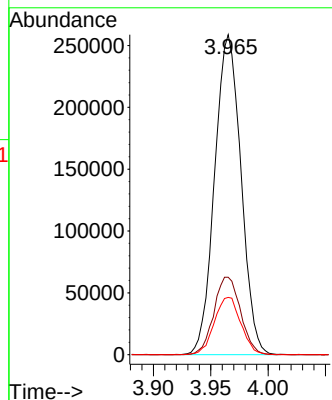
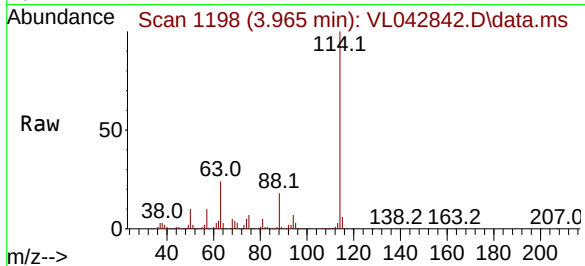




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

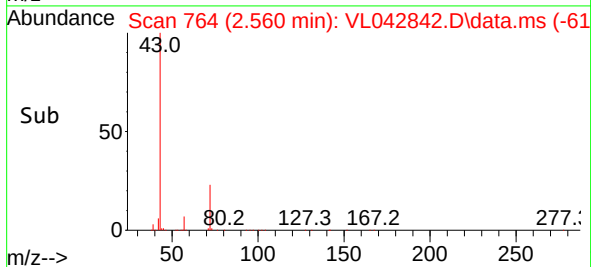
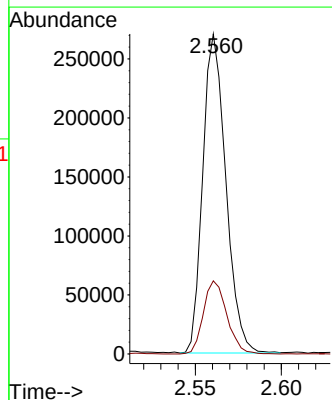
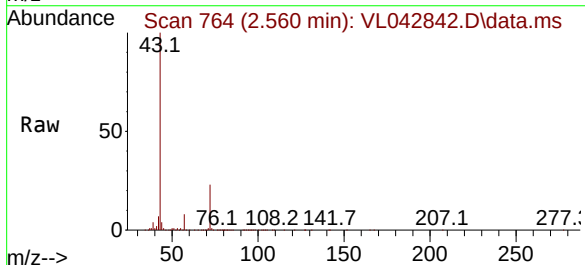
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

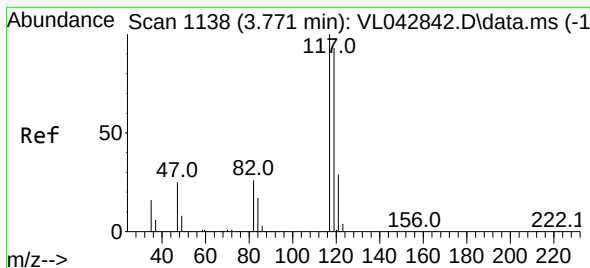
Tgt Ion:114 Resp: 413632
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.7 29.5
 88 18.0 14.4 21.6



#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

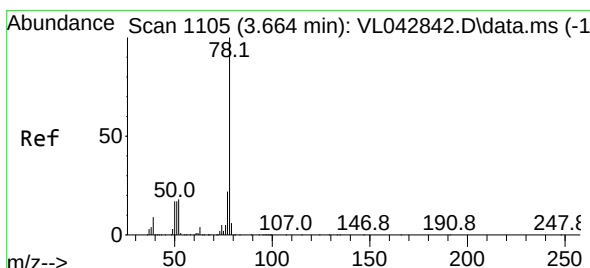
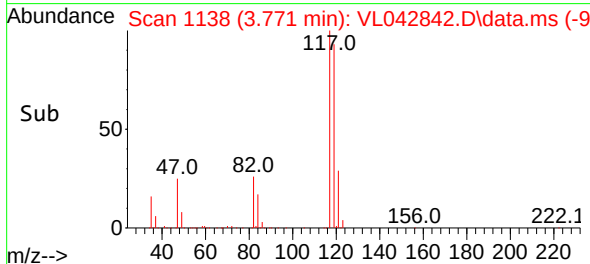
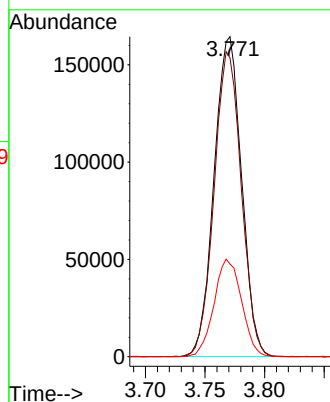
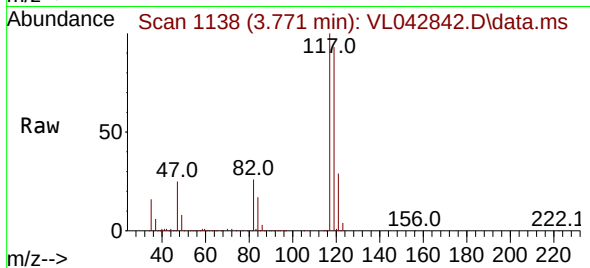
Tgt Ion:117 Resp: 262983

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

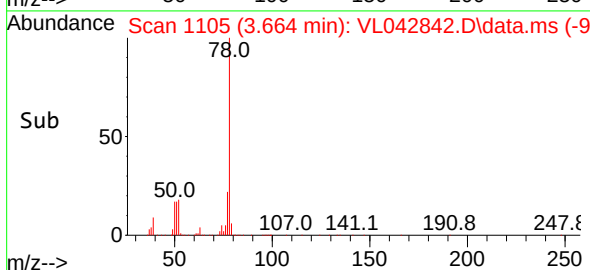
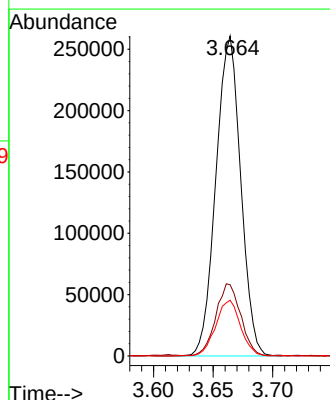
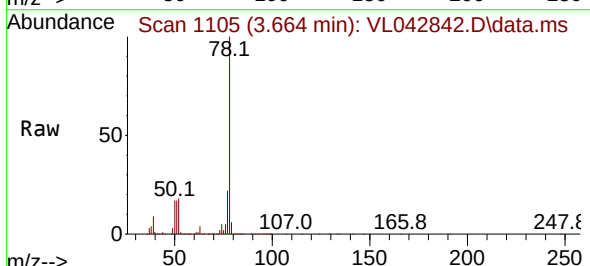
Tgt Ion: 78 Resp: 377113

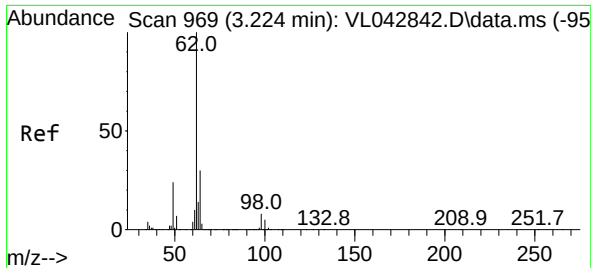
Ion Ratio Lower Upper

78 100

77 22.1 17.7 26.5

50 17.4 13.9 20.9

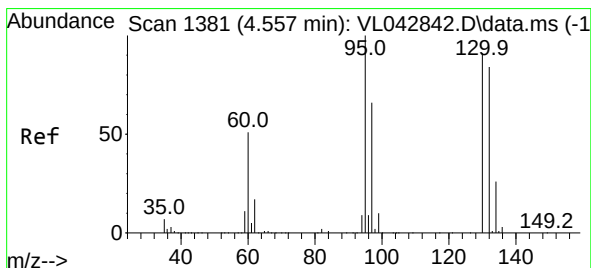
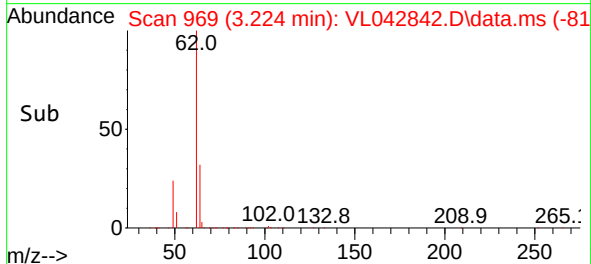
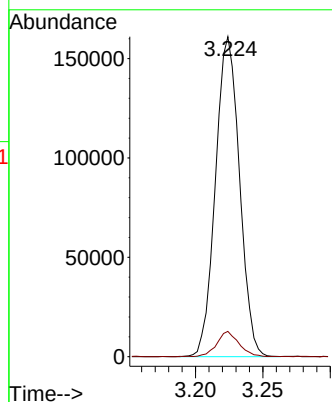
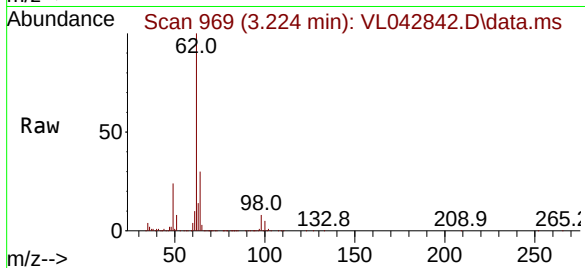




#37
1,2-Dichloroethane
Concen: 9.653 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

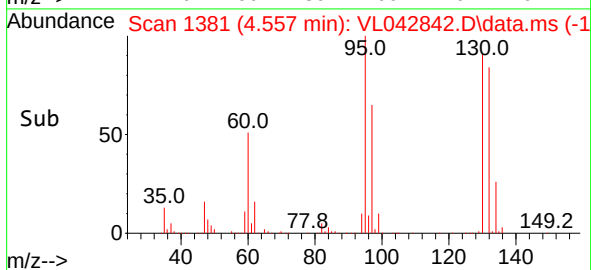
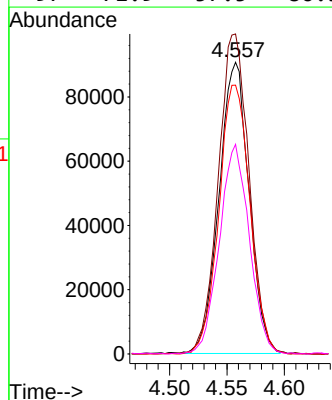
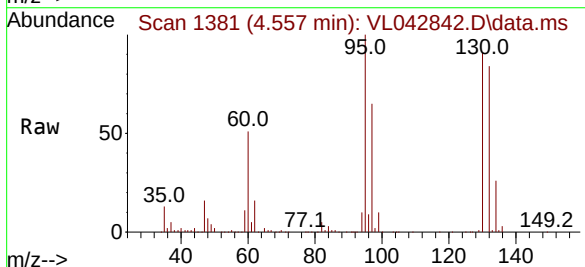
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

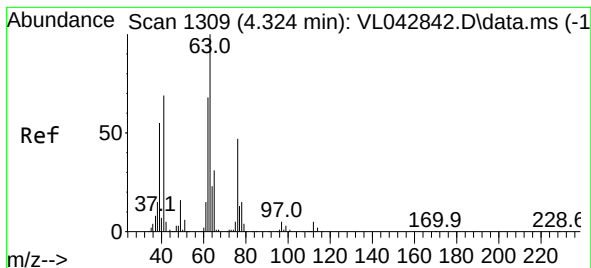
Tgt Ion: 62 Resp: 199762
Ion Ratio Lower Upper
62 100
98 7.4 5.9 8.9



#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

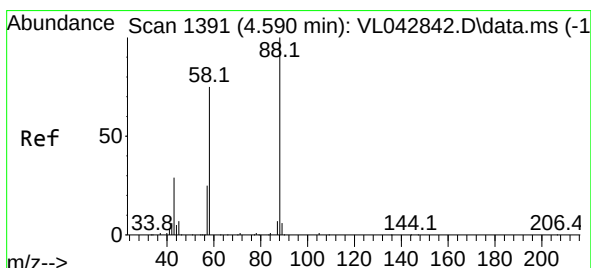
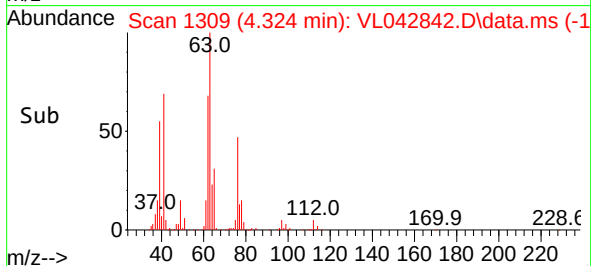
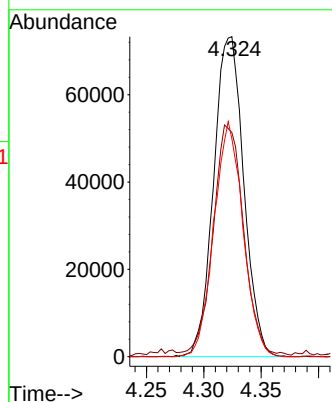
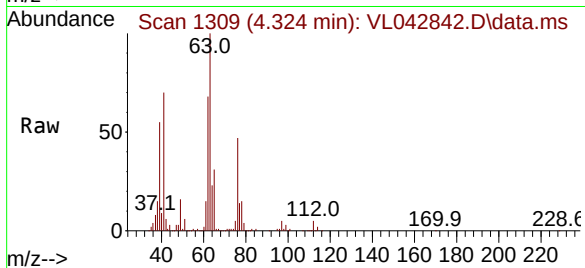
Tgt Ion: 63 Resp: 133996

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

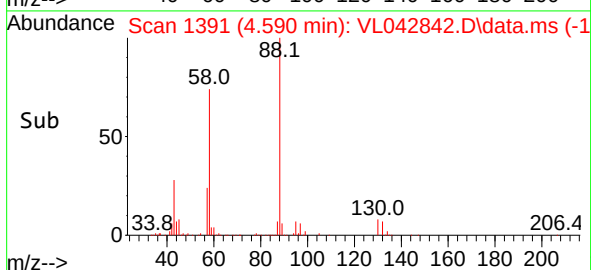
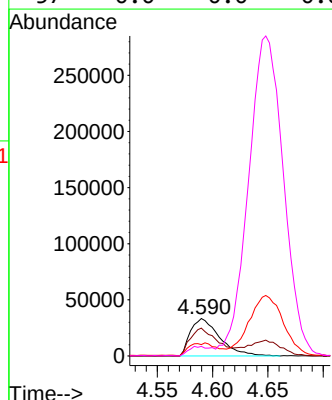
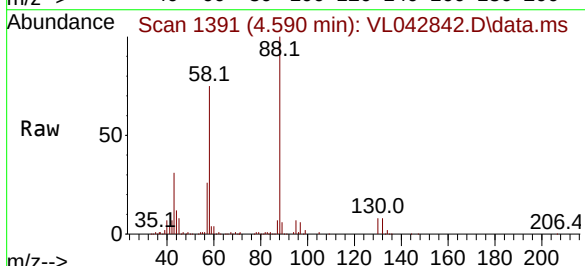
Ion Ratio Lower Upper

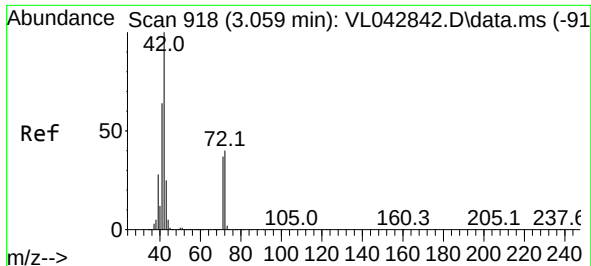
88 100

58 67.2 53.8 80.6

43 28.5 22.8 34.2

57 0.0 0.0 0.0

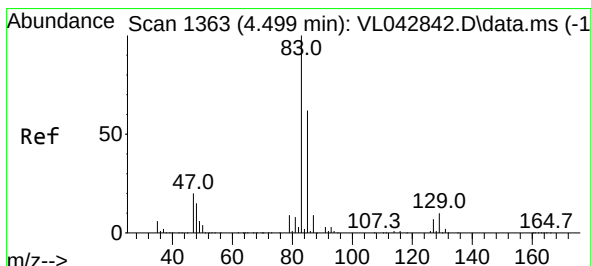
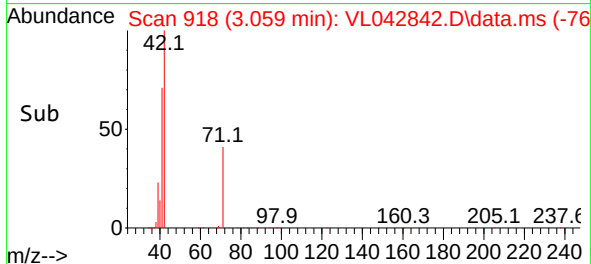
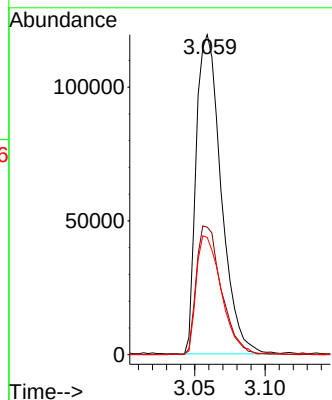
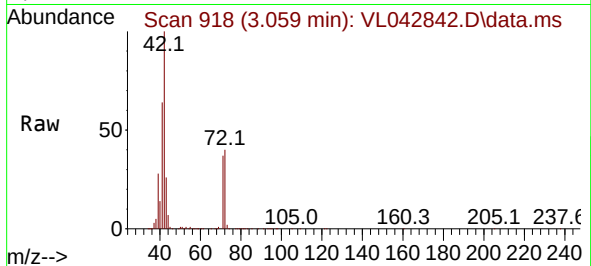




#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

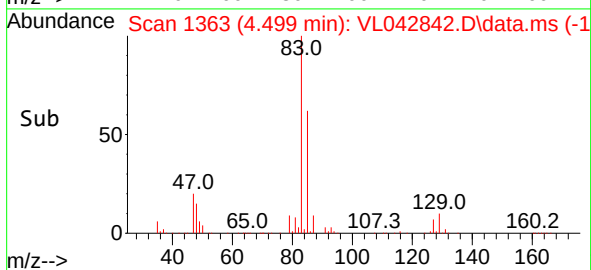
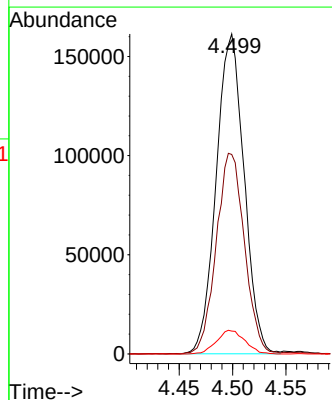
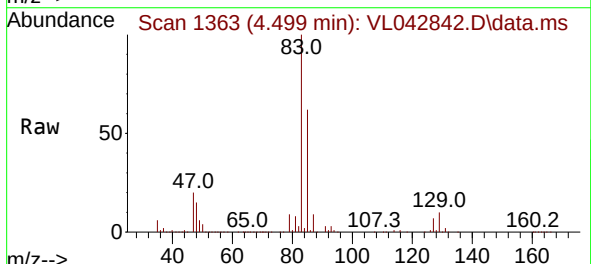
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

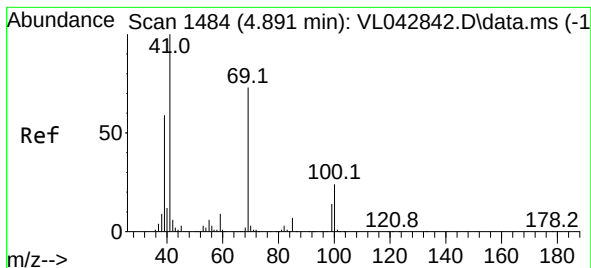
Tgt Ion: 42 Resp: 147025
Ion Ratio Lower Upper
42 100
72 40.7 32.6 48.8
71 37.5 30.0 45.0



#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

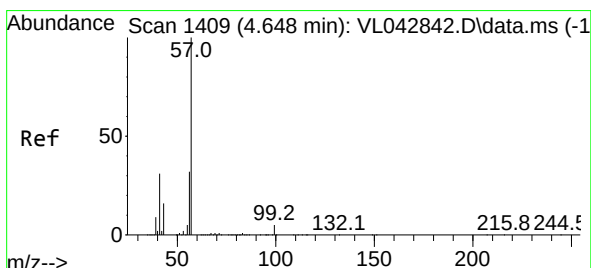
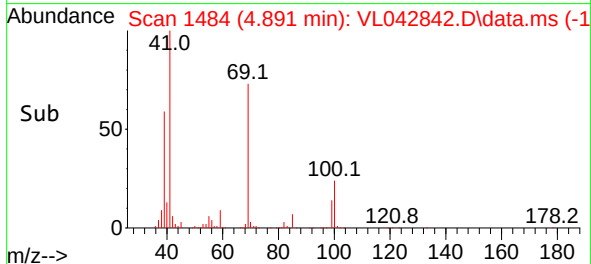
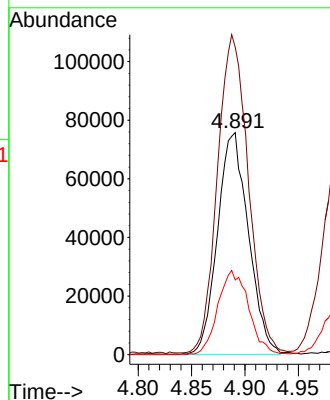
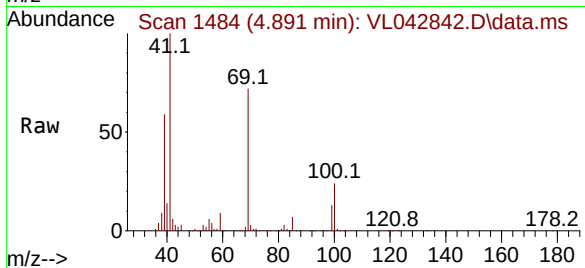
Tgt Ion: 69 Resp: 152035

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

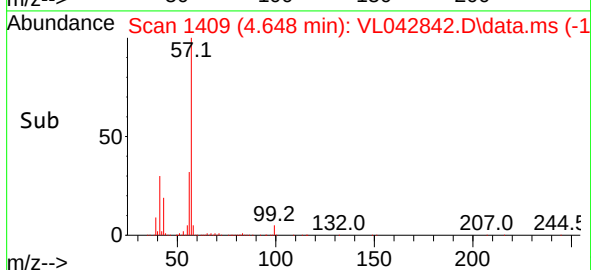
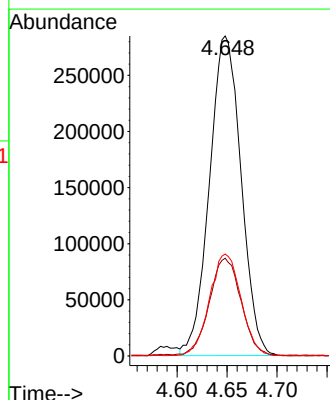
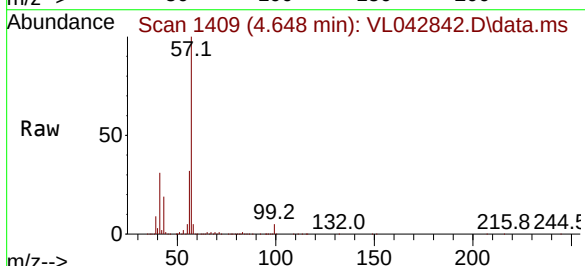
Tgt Ion: 57 Resp: 626465

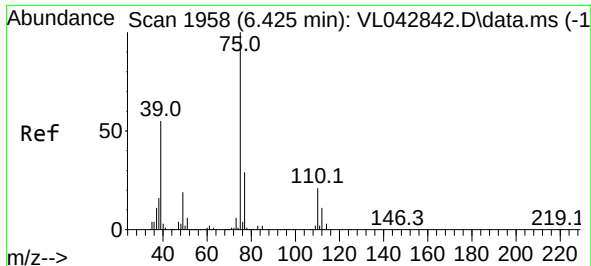
Ion Ratio Lower Upper

57 100

41 31.0 24.8 37.2

56 31.9 25.5 38.3

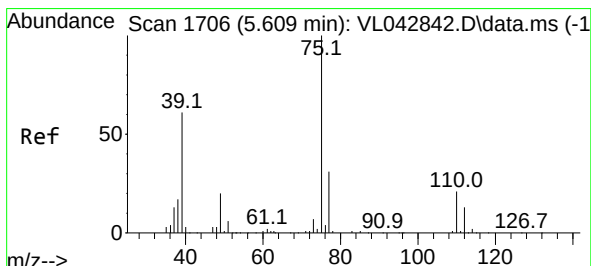
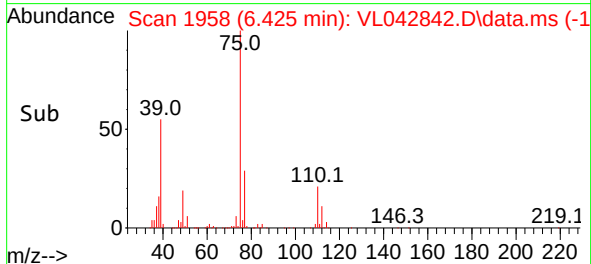
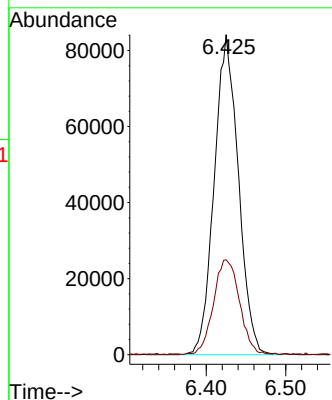
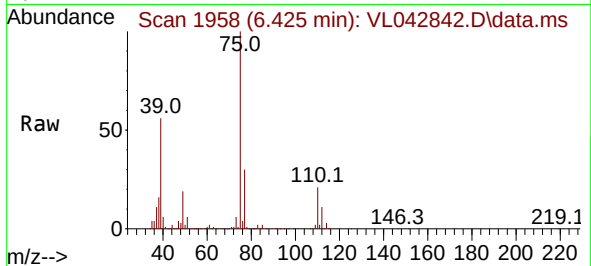




#45
 t-1,3-Dichloropropene
 Concen: 9.616 ppbv
 RT: 6.425 min Scan# 1958
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

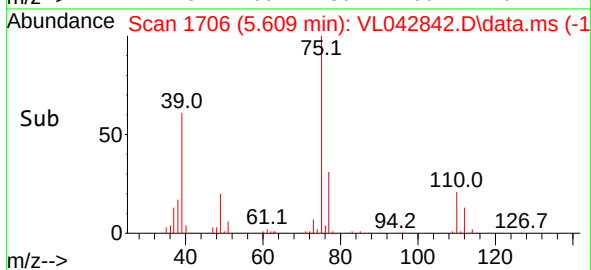
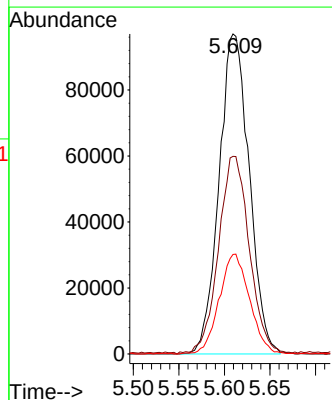
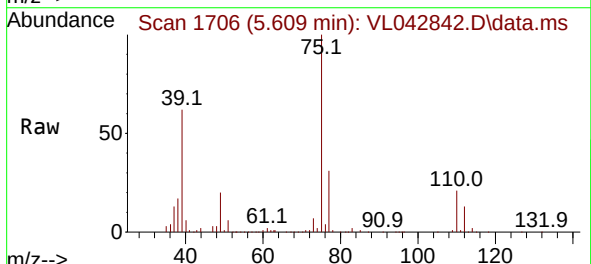
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

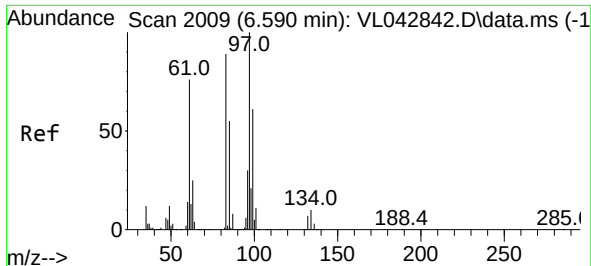
Tgt Ion: 75 Resp: 177207
 Ion Ratio Lower Upper
 75 100
 77 29.7 23.8 35.6



#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

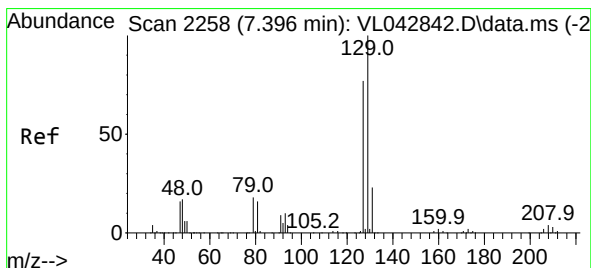
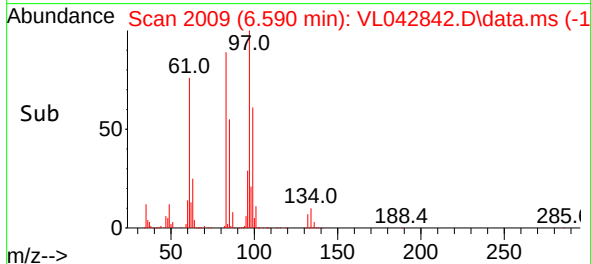
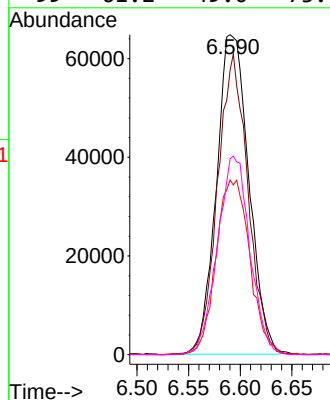
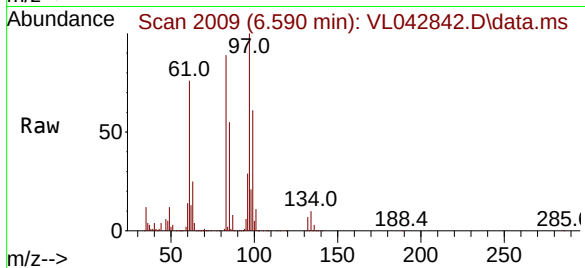
Ion Ratio Lower Upper

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

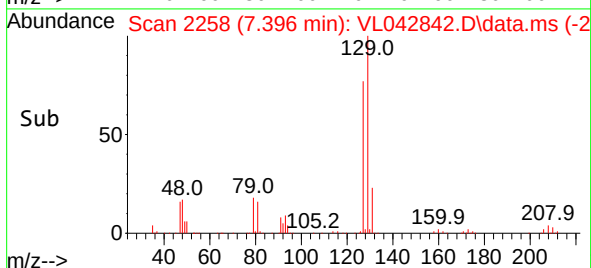
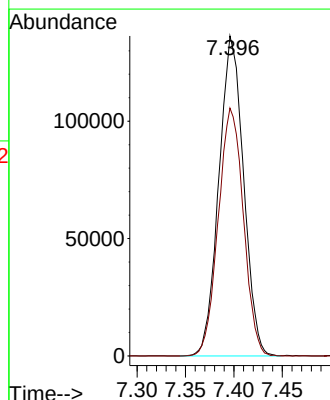
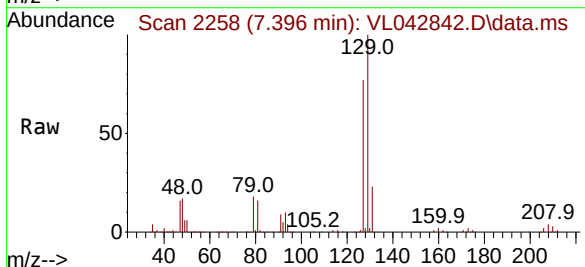
Acq: 13 Aug 2025 08:30

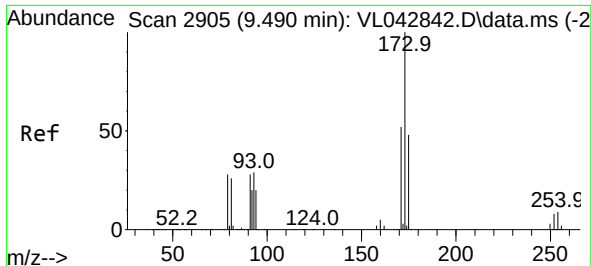
Tgt Ion: 129 Resp: 241553

Ion Ratio Lower Upper

129 100

127 78.8 39.4 118.2

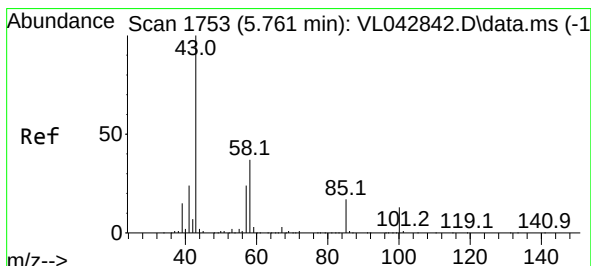
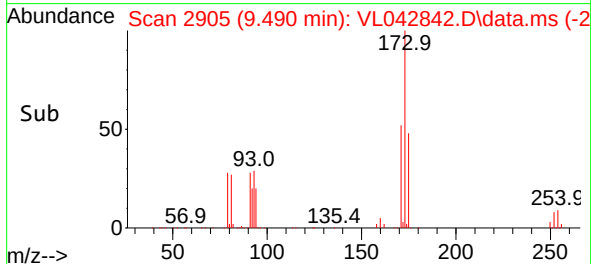
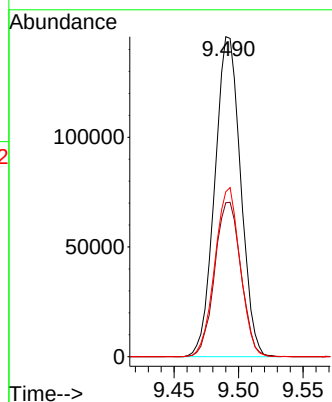
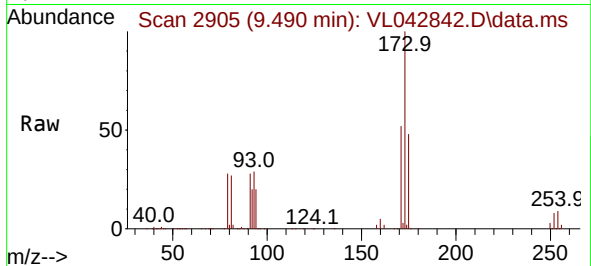




#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

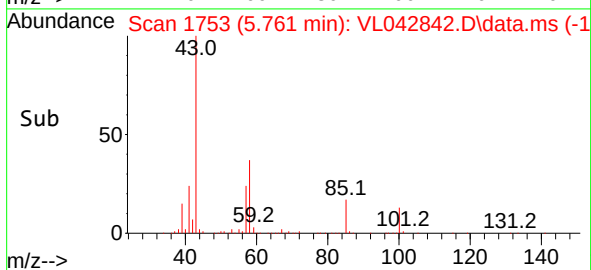
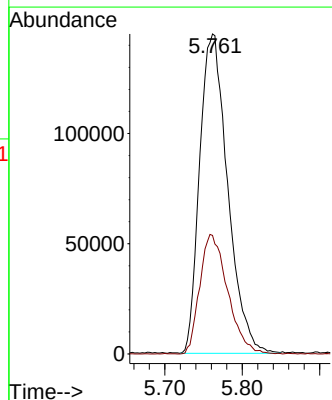
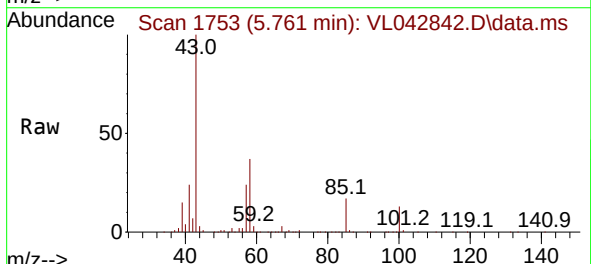
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

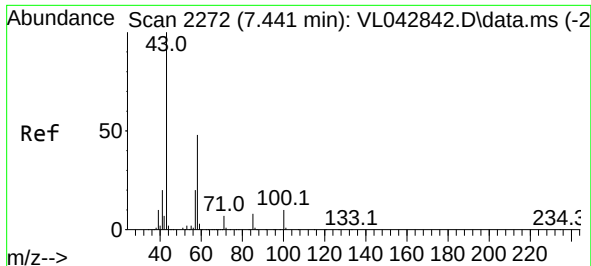
Tgt Ion:173 Resp: 202975
Ion Ratio Lower Upper
173 100
175 49.0 39.2 58.8
171 51.6 41.3 61.9



#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

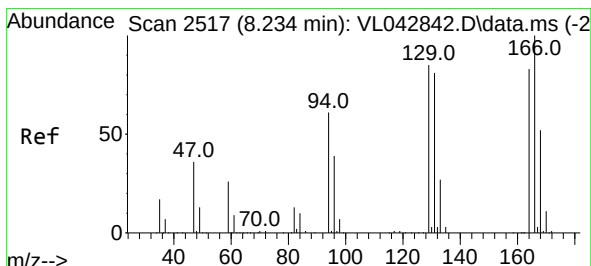
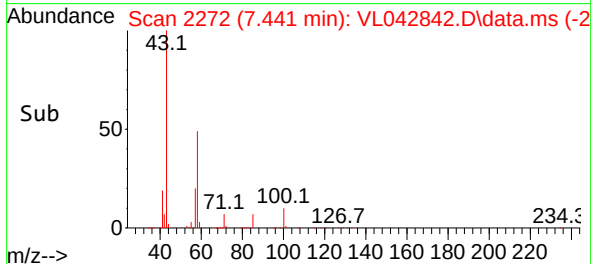
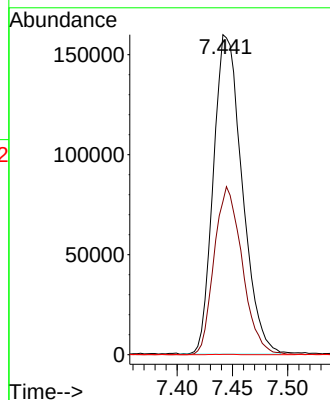
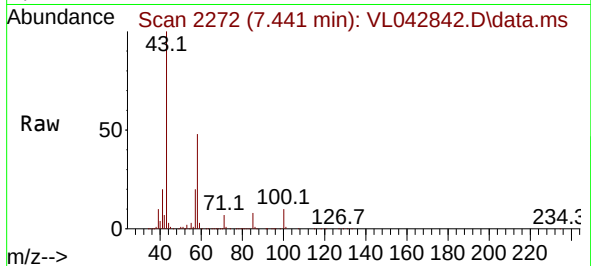




#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

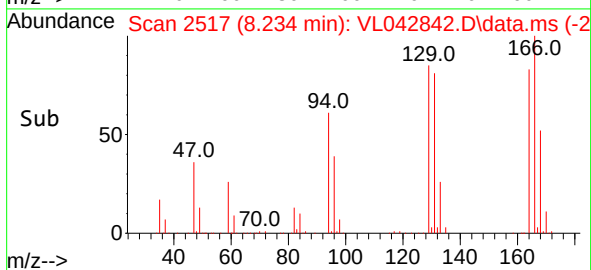
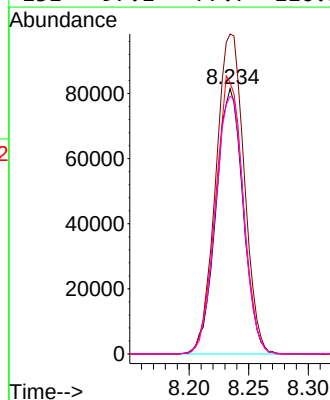
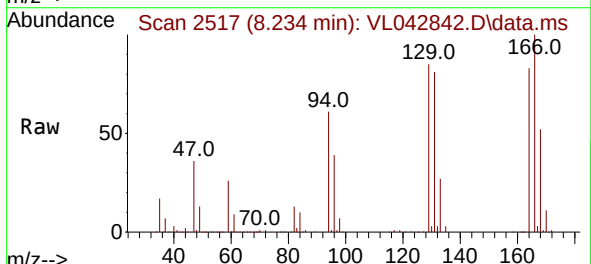
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

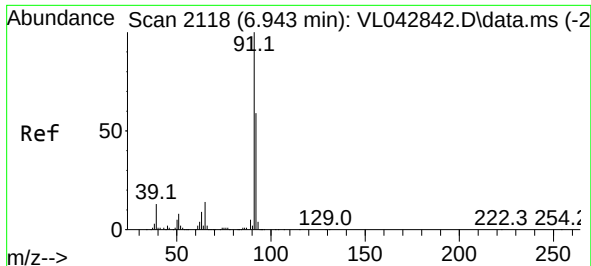
Tgt Ion: 43 Resp: 289052
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
98 0.1 0.1 0.1#



#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

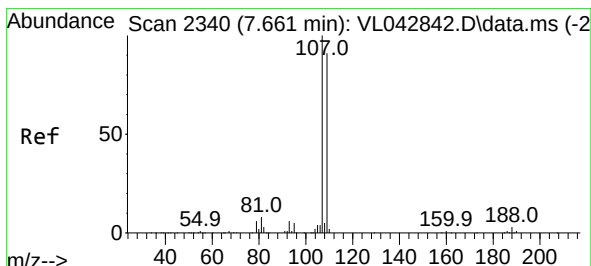
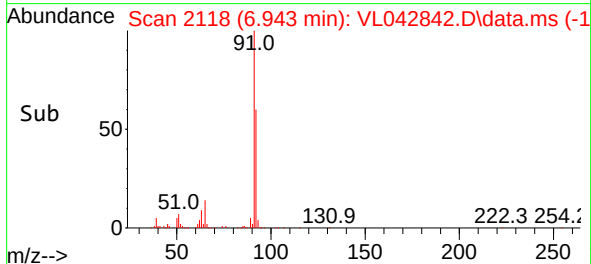
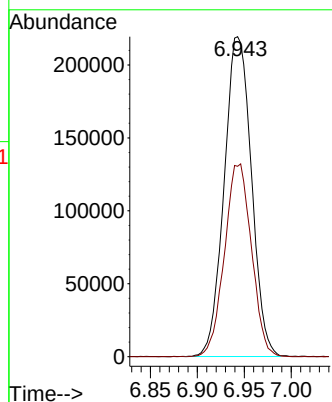
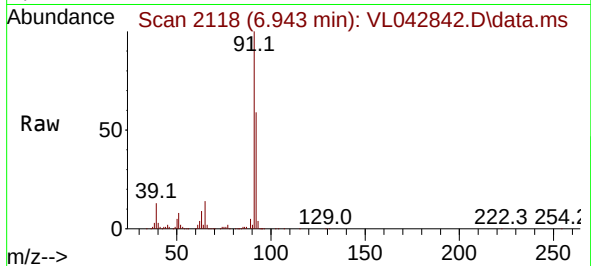




#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

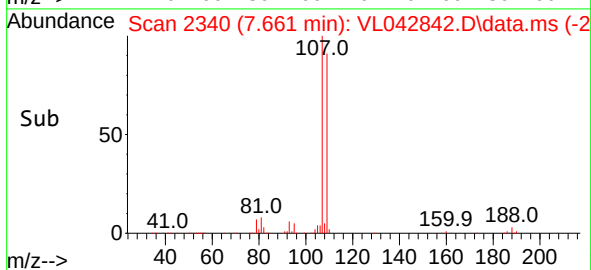
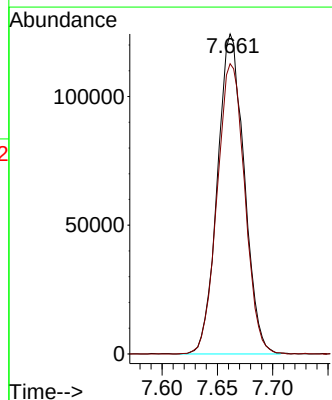
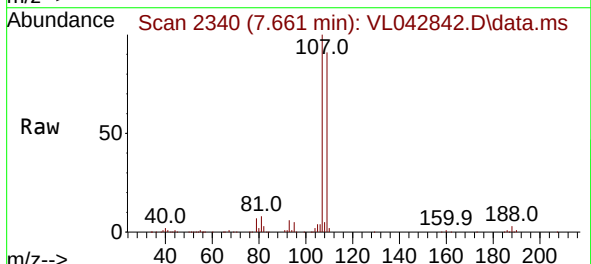
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

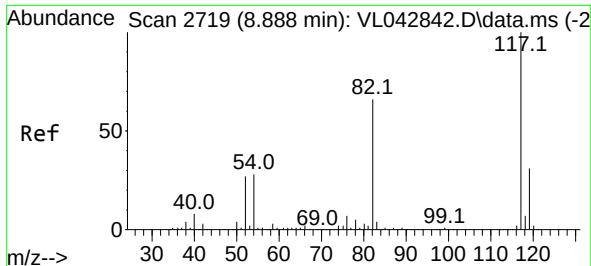
Tgt Ion: 91 Resp: 443400
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#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

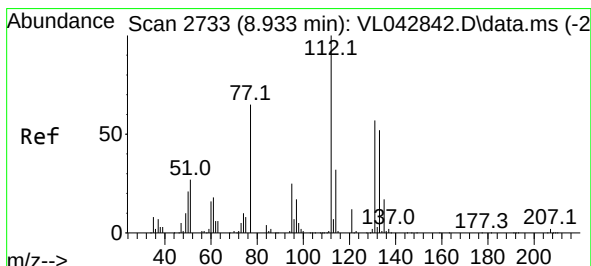
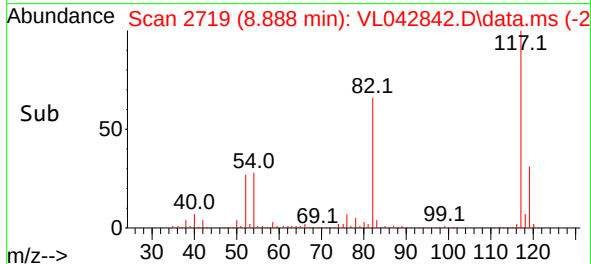
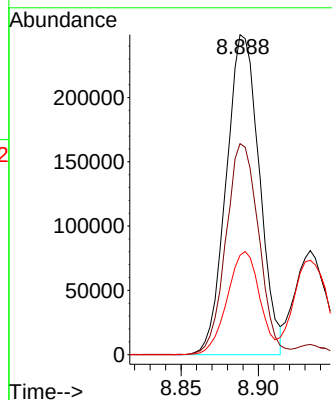
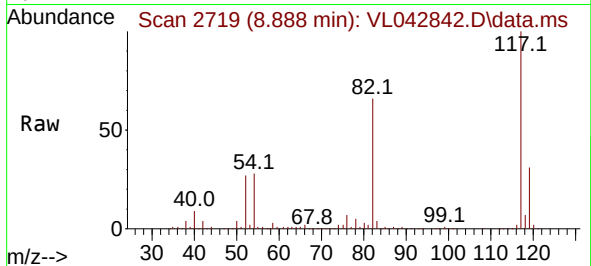




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

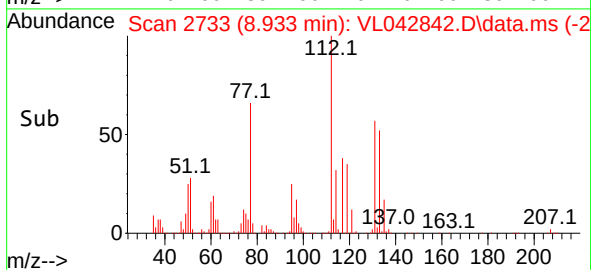
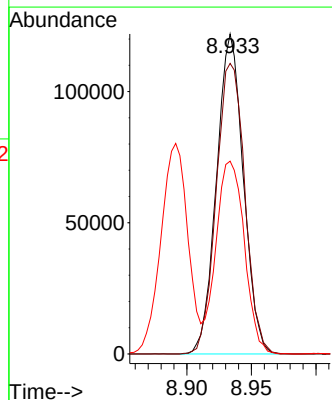
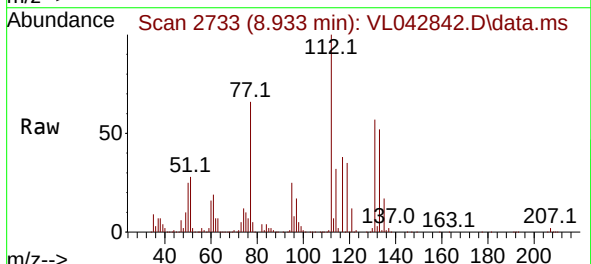
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

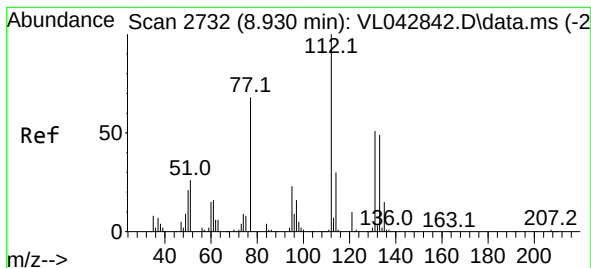
Tgt Ion:117 Resp: 370372
Ion Ratio Lower Upper
117 100
82 68.2 54.6 81.8
119 32.4 25.9 38.9



#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

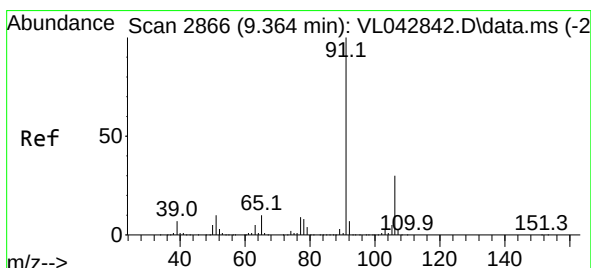
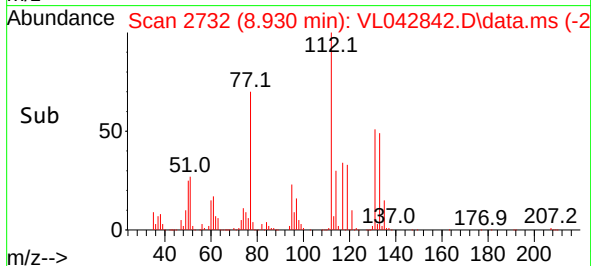
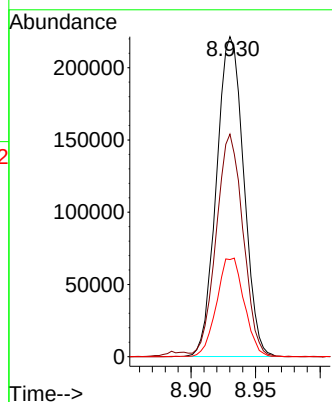
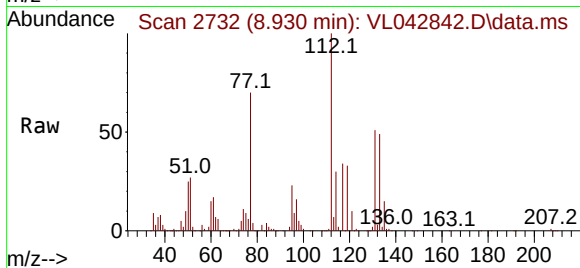
Tgt Ion:112 Resp: 325303

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

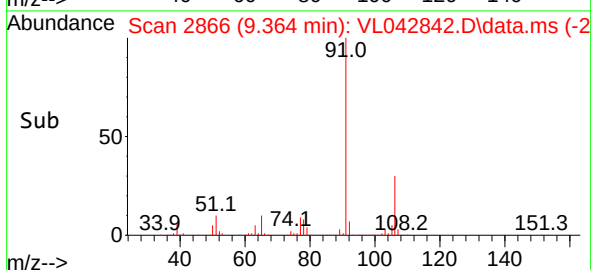
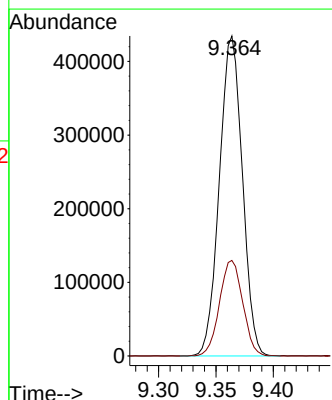
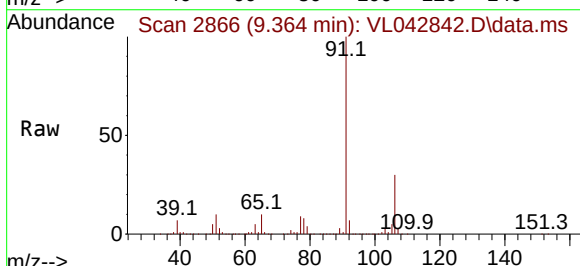
Acq: 13 Aug 2025 08:30

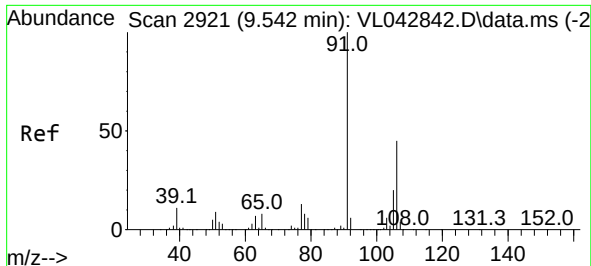
Tgt Ion: 91 Resp: 605785

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 :

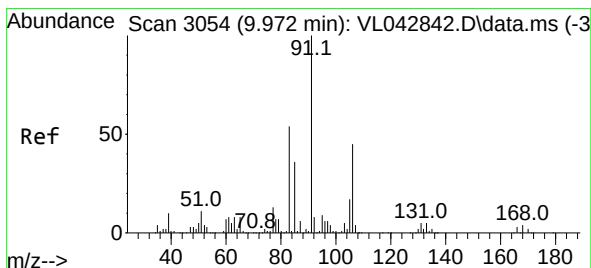
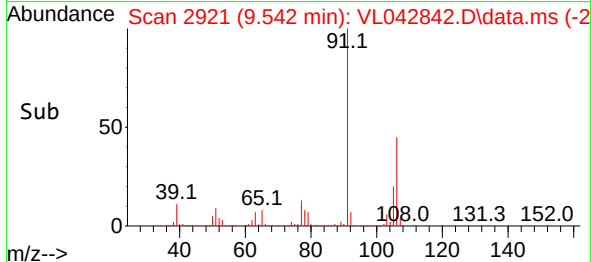
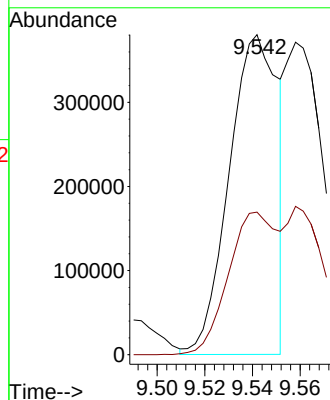
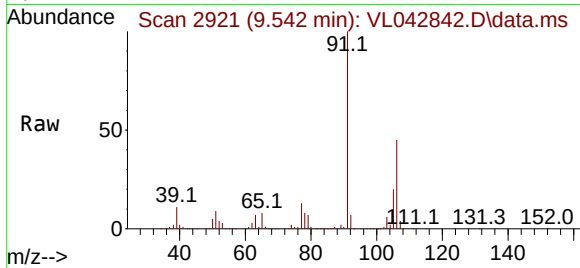
VSTDICCC010

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

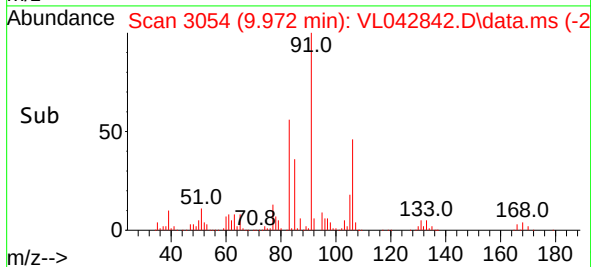
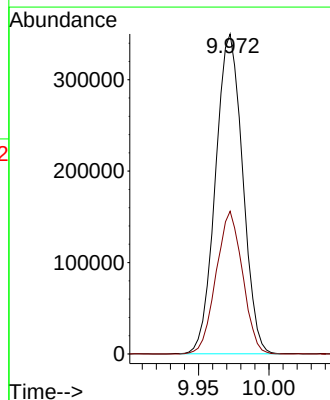
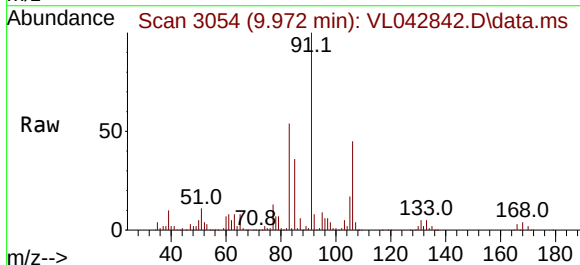
Acq: 13 Aug 2025 08:30

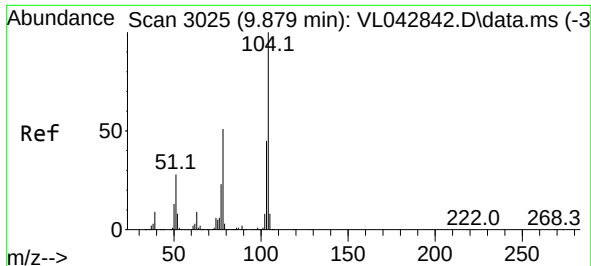
Tgt Ion: 91 Resp: 469073

Ion Ratio Lower Upper

91 100

106 43.6 21.8 65.4

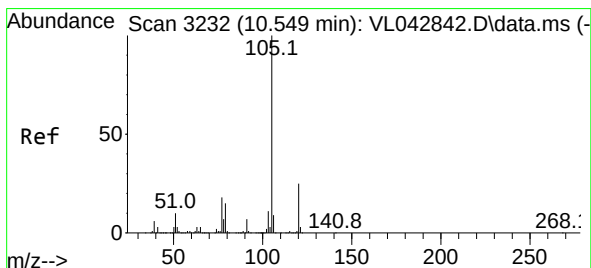
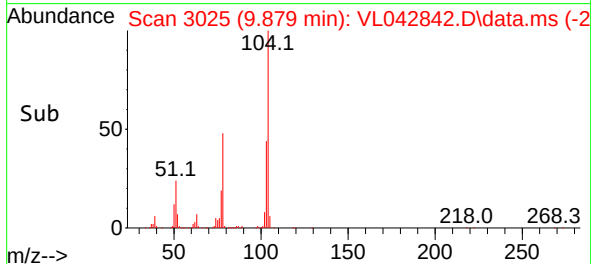
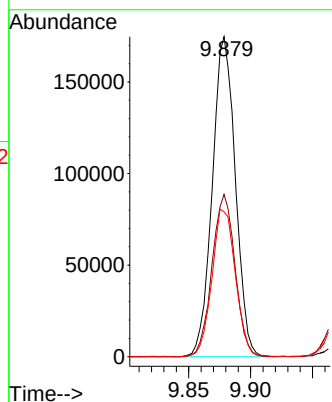
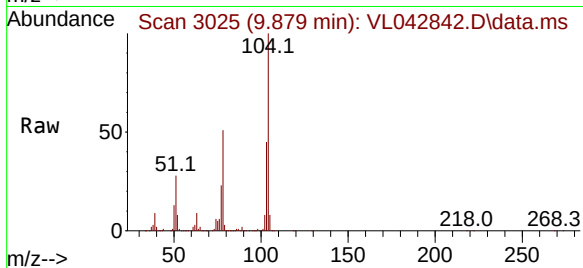




#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

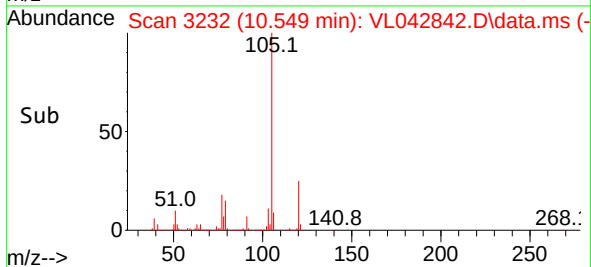
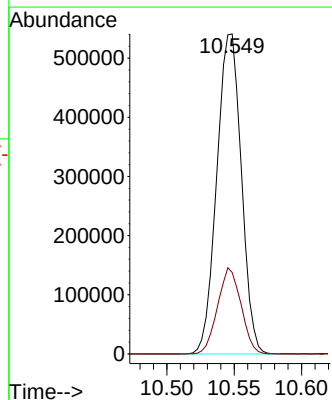
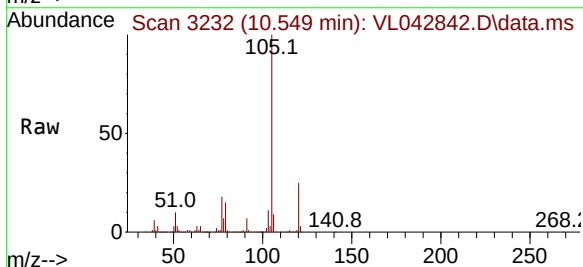
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

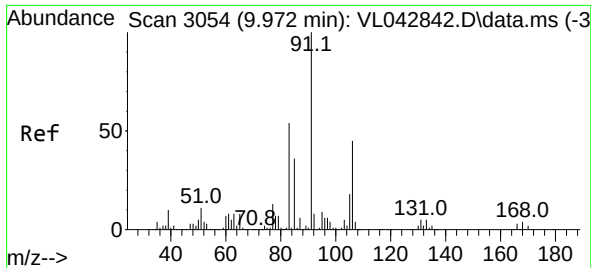
Tgt Ion:104 Resp: 226056
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 47.1 37.7 56.5



#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

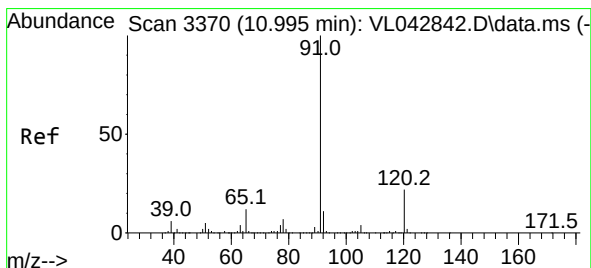
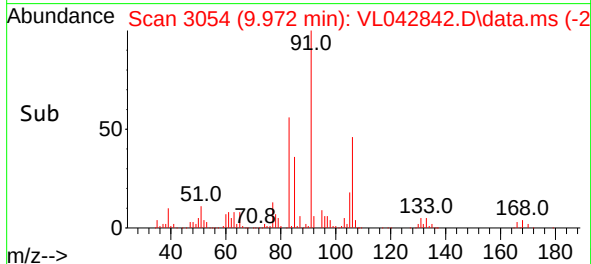
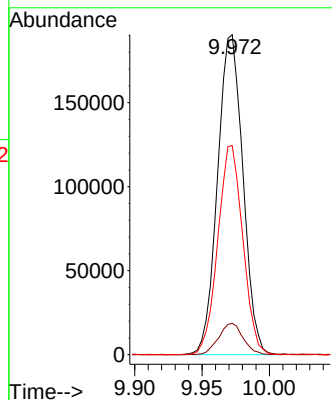
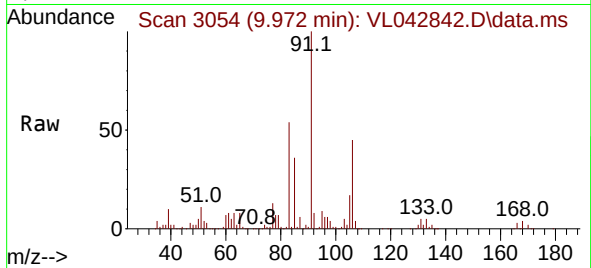




#63
1,1,2,2-Tetrachloroethane
Concen: 8.870 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

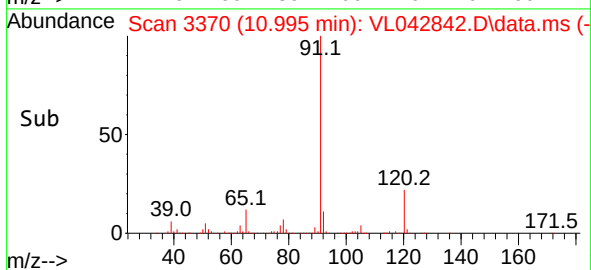
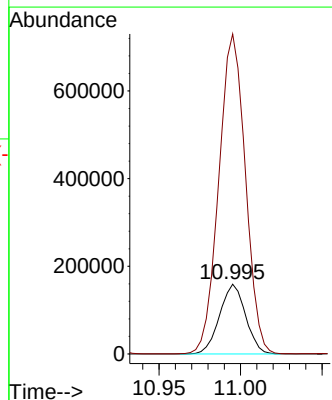
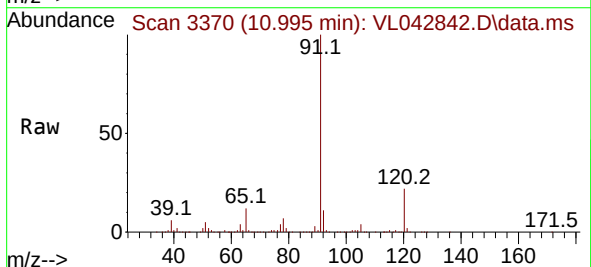
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

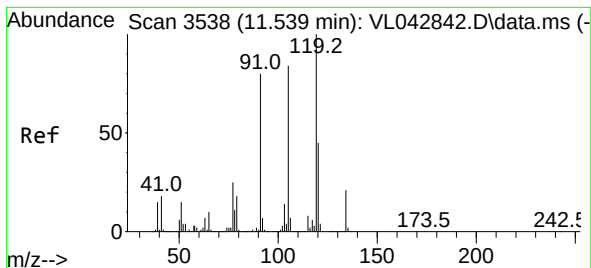
Tgt Ion: 83 Resp: 249621
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.5 32.3 96.8



#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

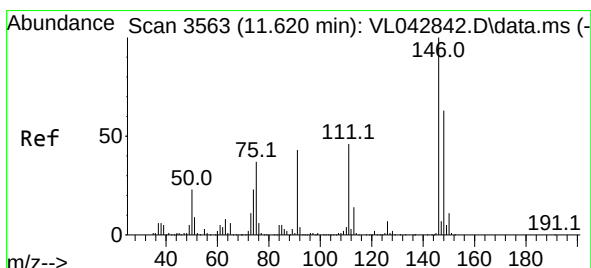
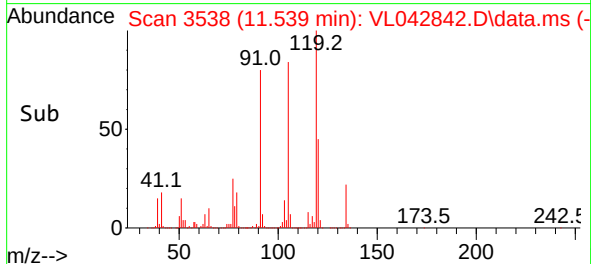
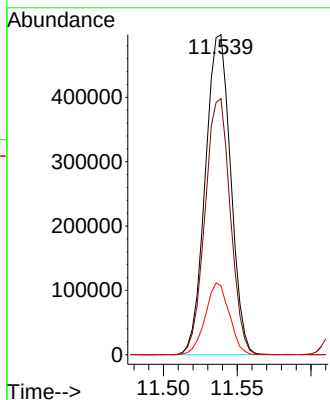
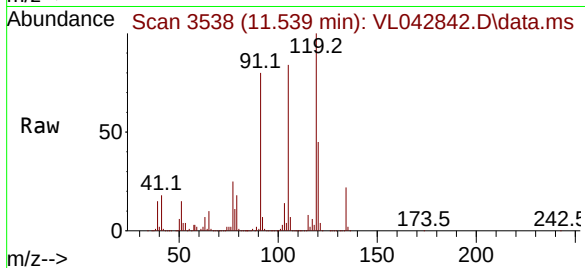




#65
tert-Butylbenzene
Concen: 8.951 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

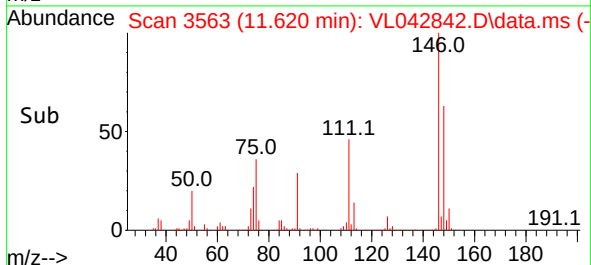
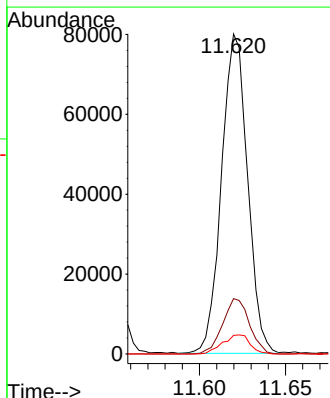
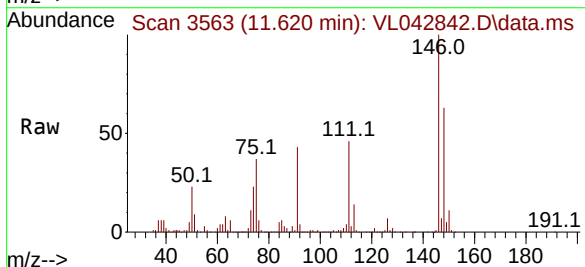
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

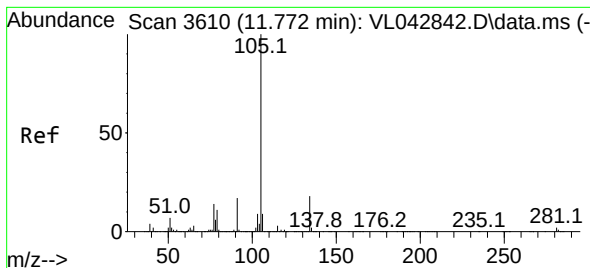
Tgt Ion:119 Resp: 594314
Ion Ratio Lower Upper
119 100
91 79.9 63.9 95.9
134 21.2 17.0 25.4



#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

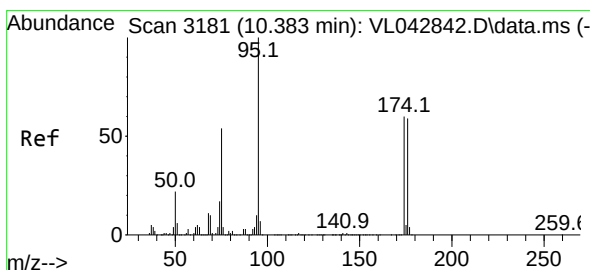
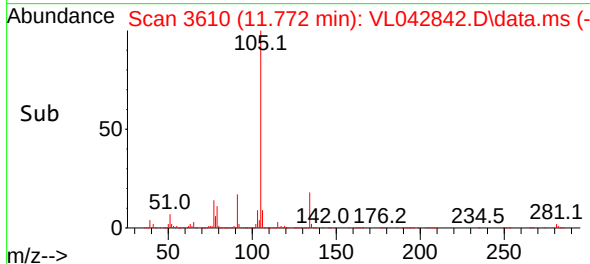
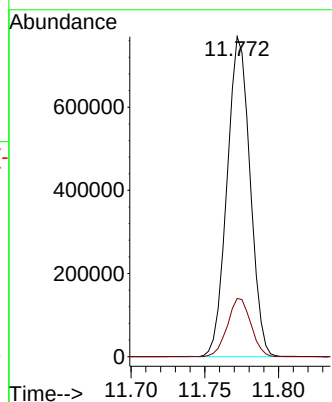
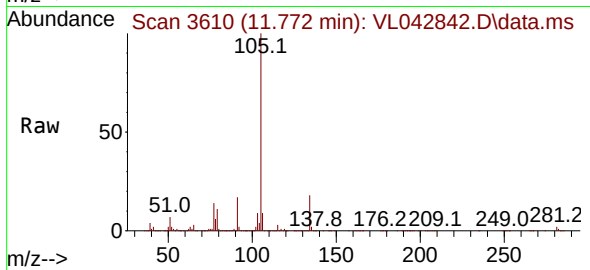




#67
 sec-Butylbenzene
 Concen: 8.943 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

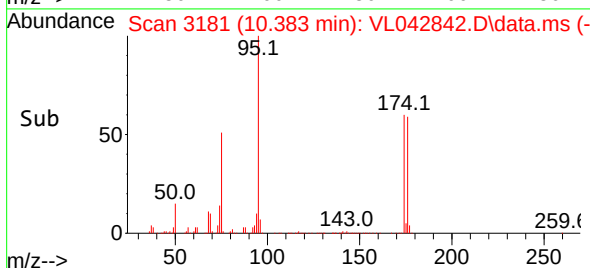
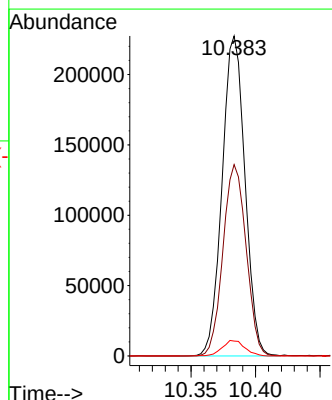
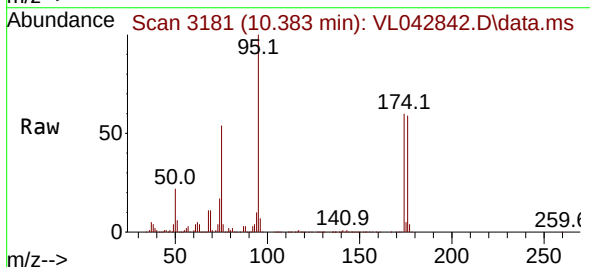
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

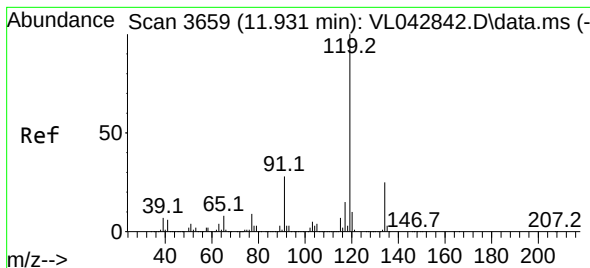
Tgt Ion:105 Resp: 833378
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3



#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

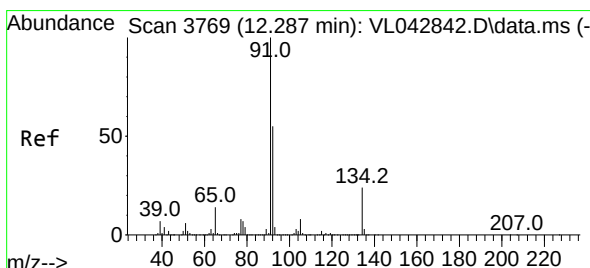
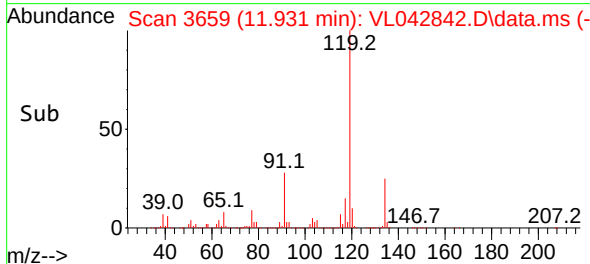
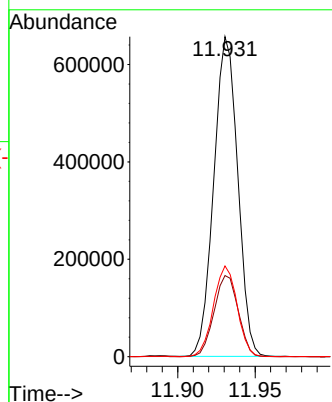
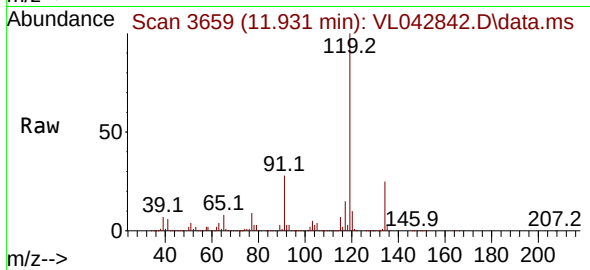




#69
 p-Isopropyltoluene
 Concen: 8.820 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

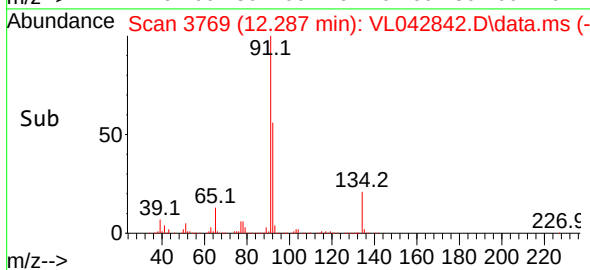
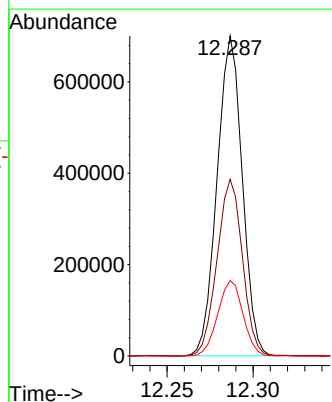
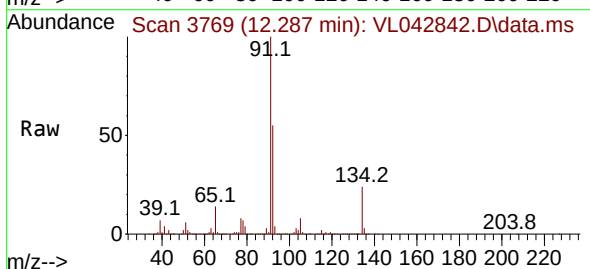
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

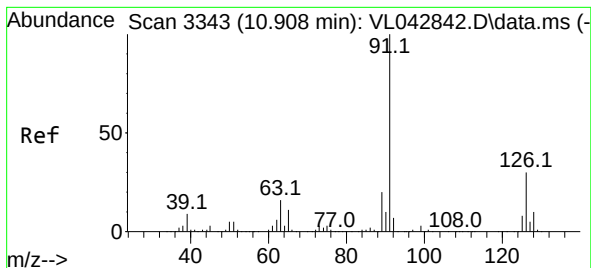
Tgt Ion:119 Resp: 705700
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.6 30.8
 91 28.3 22.6 34.0



#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 :

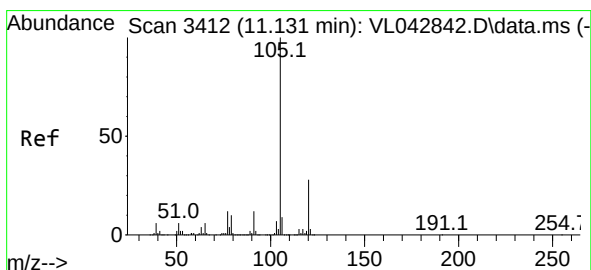
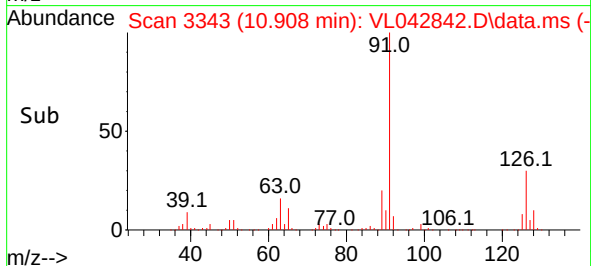
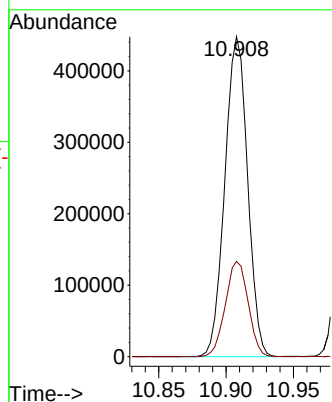
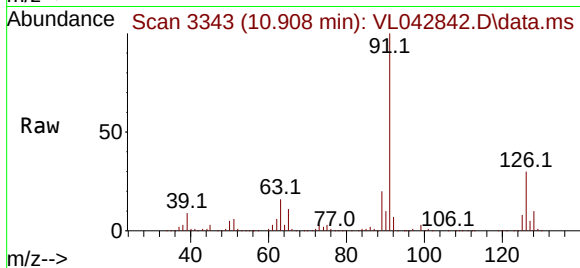
VSTDICCC010

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

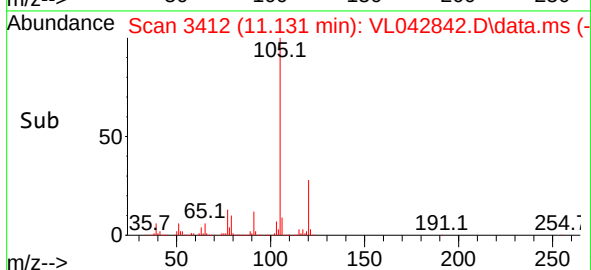
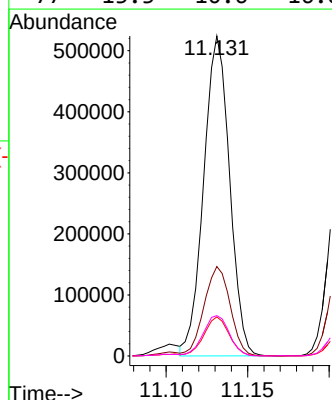
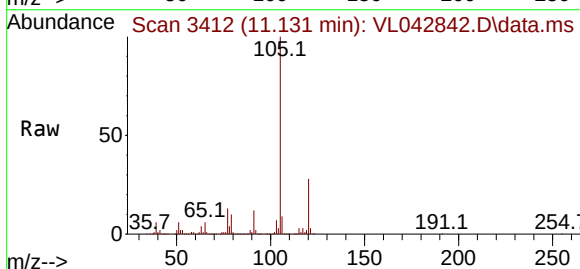
Ion Ratio Lower Upper

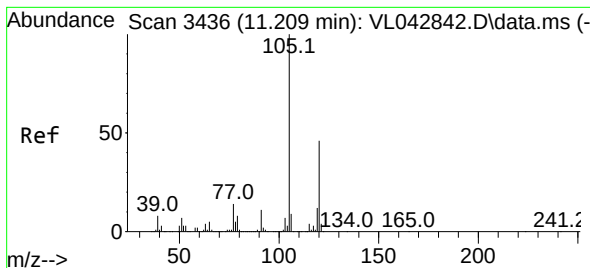
105 100

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 :

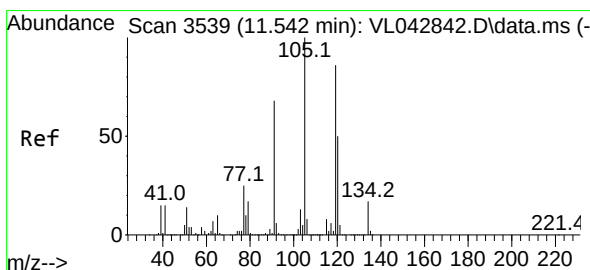
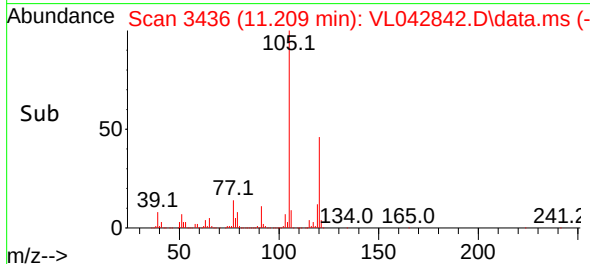
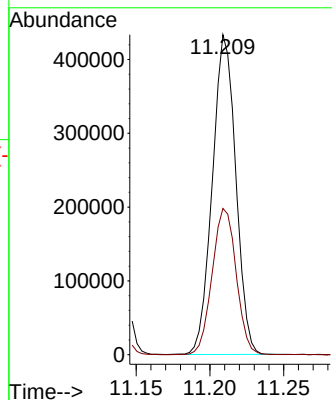
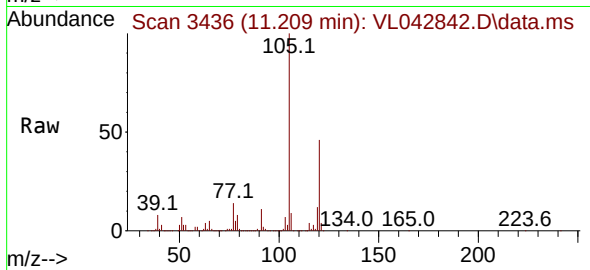
VSTDICCC010

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

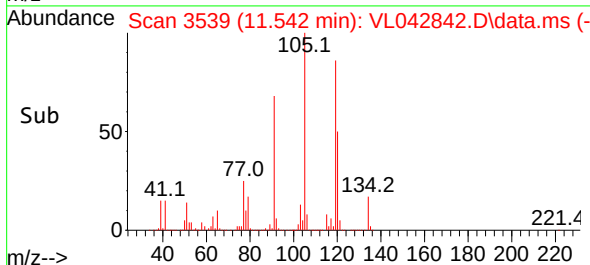
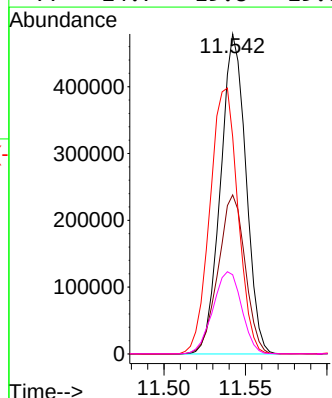
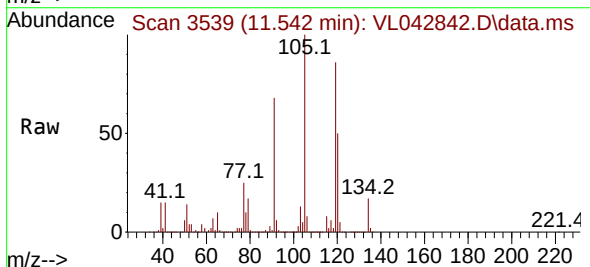
Ion Ratio Lower Upper

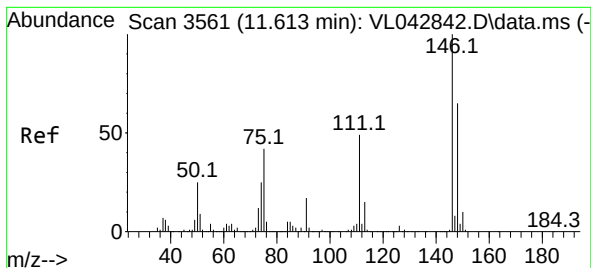
105 100

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

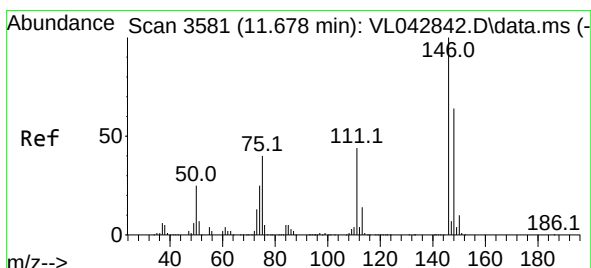
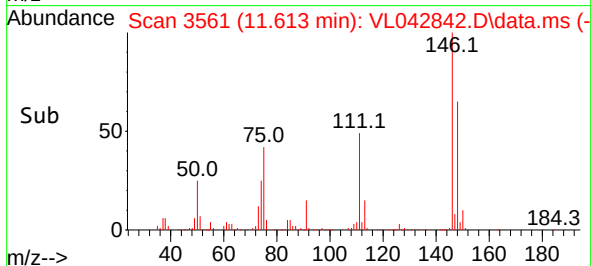
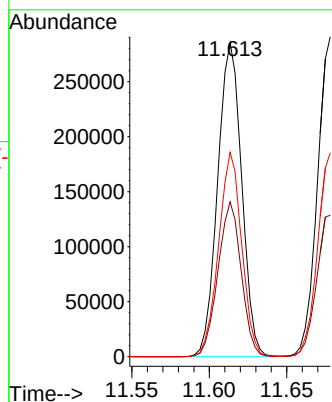
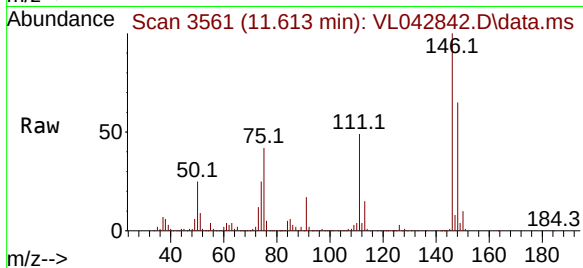
Tgt Ion:146 Resp: 307640

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

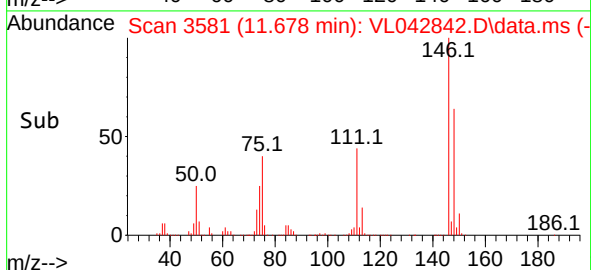
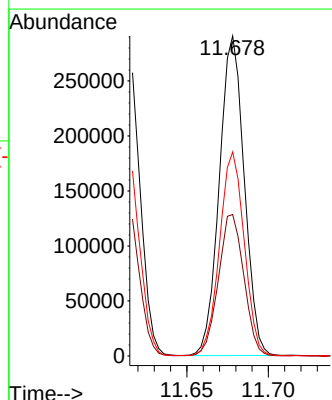
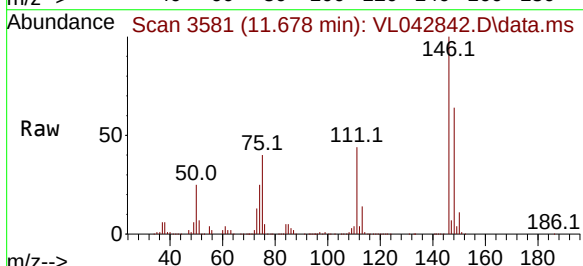
Tgt Ion:146 Resp: 308542

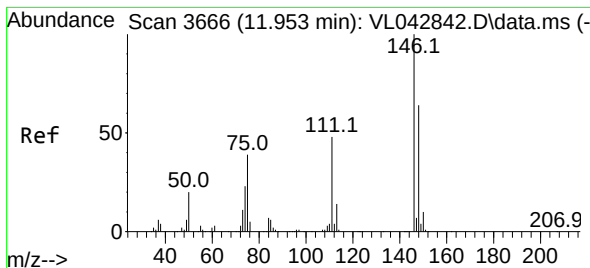
Ion Ratio Lower Upper

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

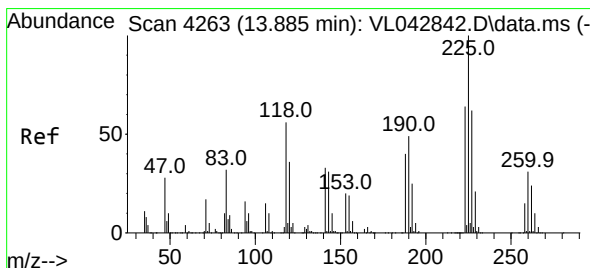
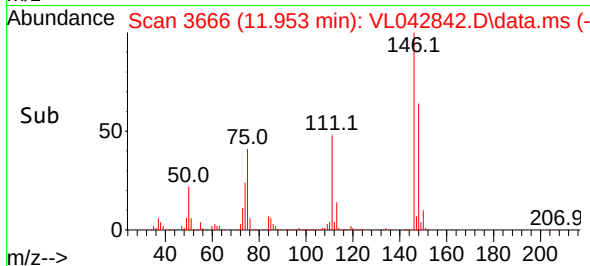
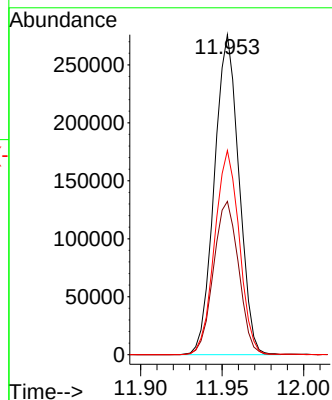
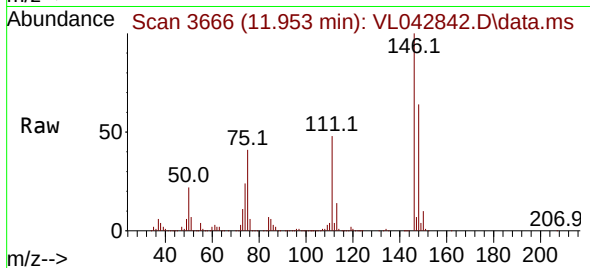
Tgt Ion:146 Resp: 289119

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

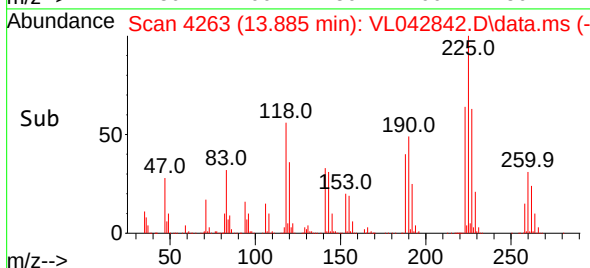
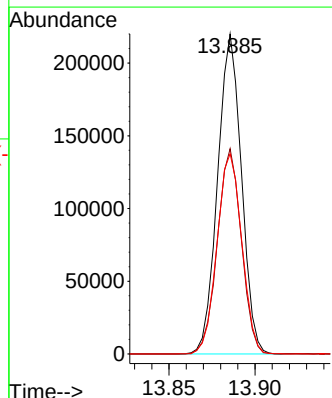
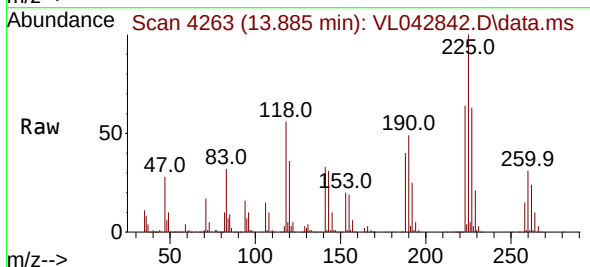
Tgt Ion:225 Resp: 211996

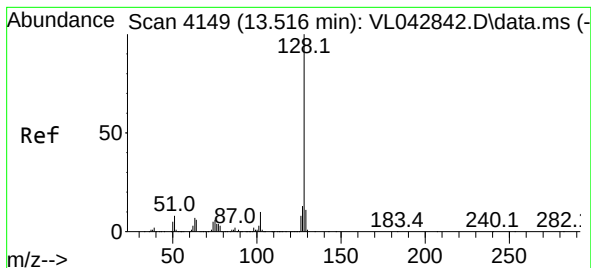
Ion Ratio Lower Upper

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

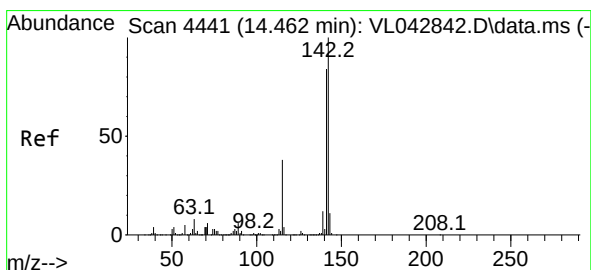
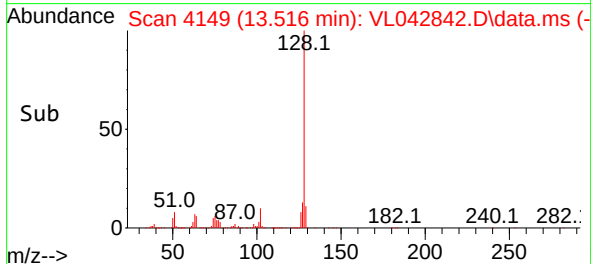
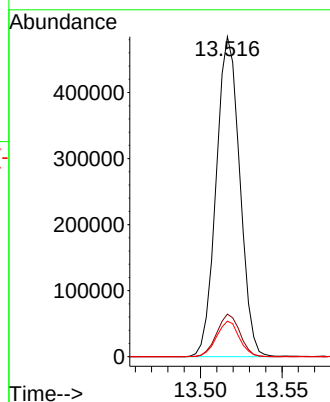
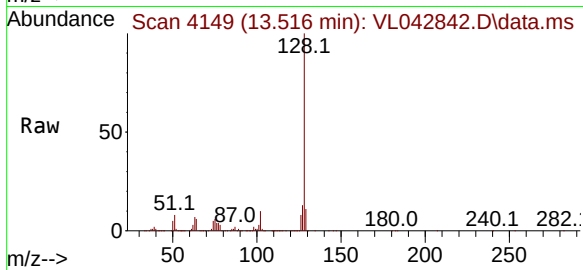
Tgt Ion:128 Resp: 487174

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

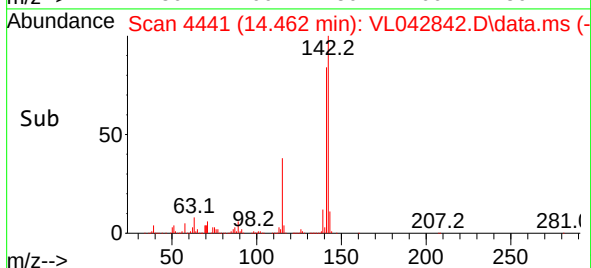
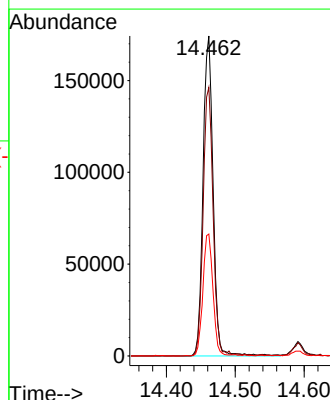
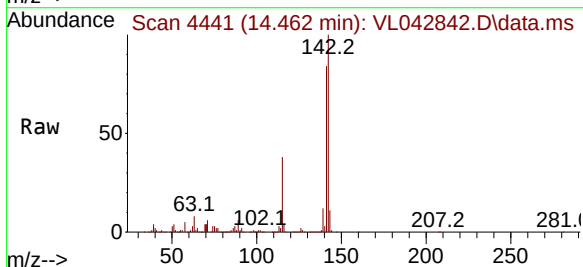
Tgt Ion:142 Resp: 176880

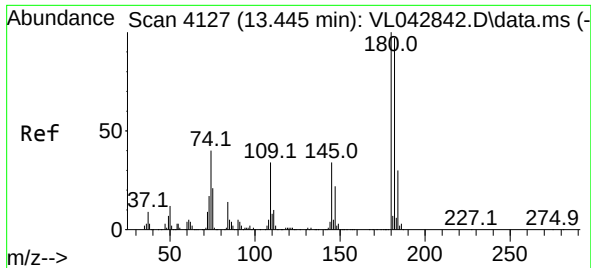
Ion Ratio Lower Upper

142 100

141 83.8 67.0 100.6

115 38.6 30.9 46.3

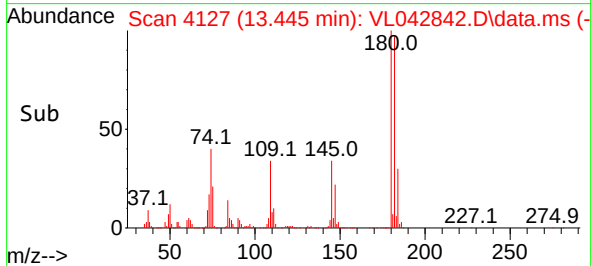
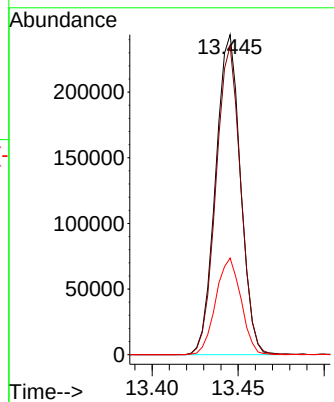
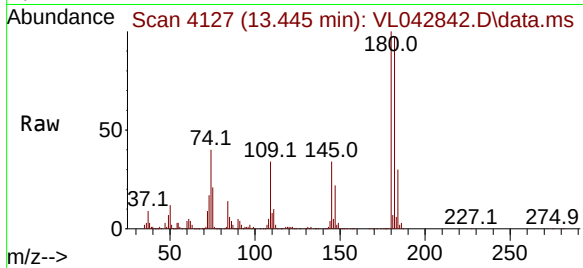




#81
 1,2,4-Trichlorobenzene
 Concen: 9.220 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

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

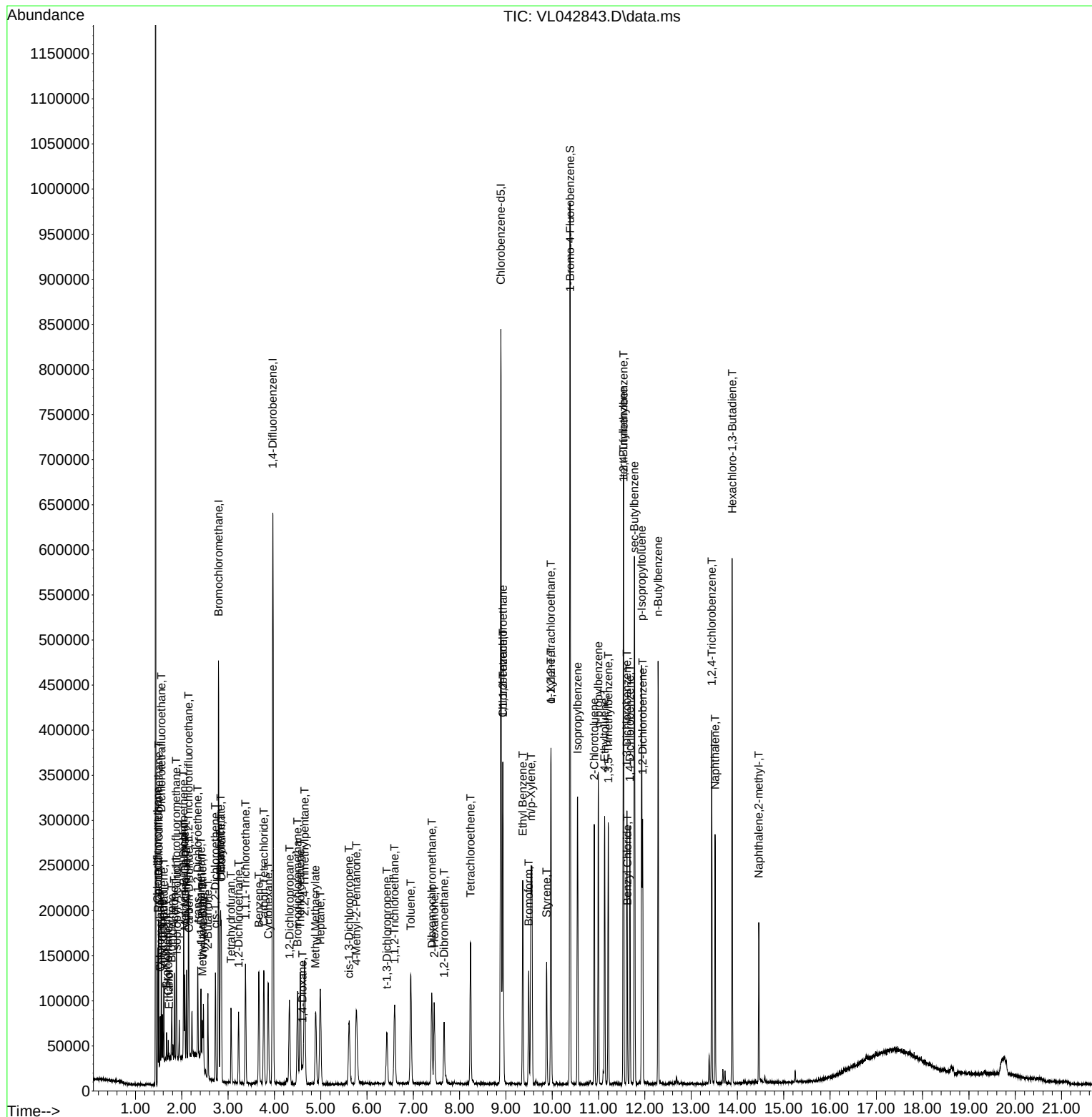
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

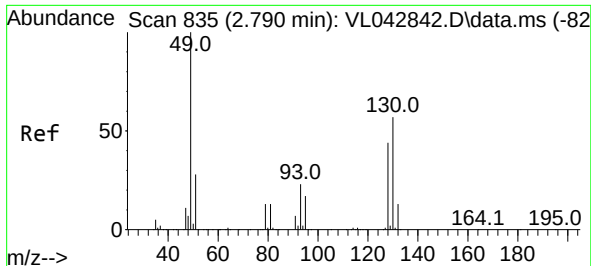
Quant Time: Aug 14 01:46:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

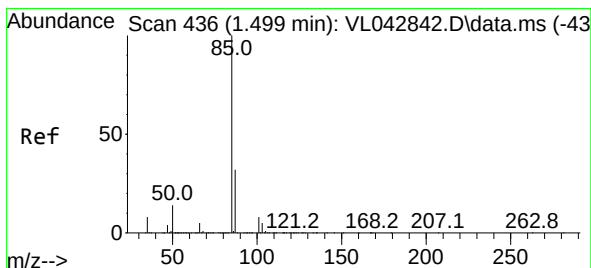
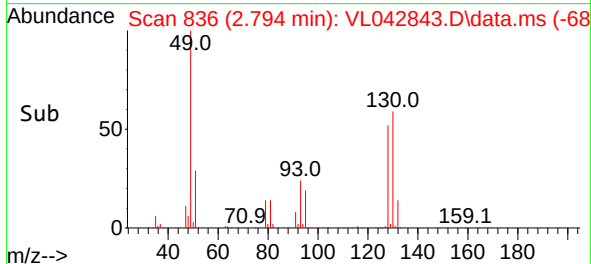
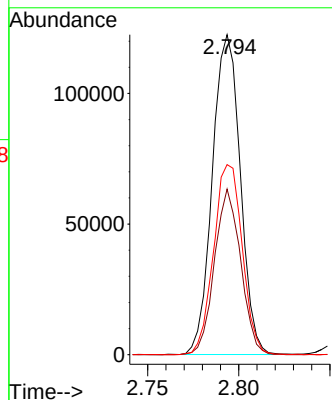
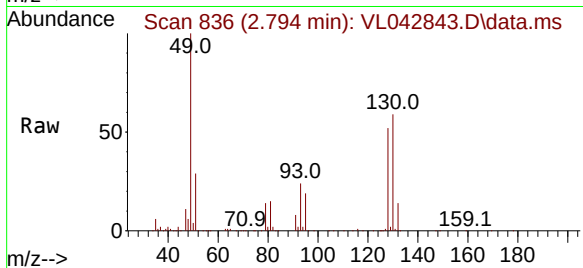




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. 0.004 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

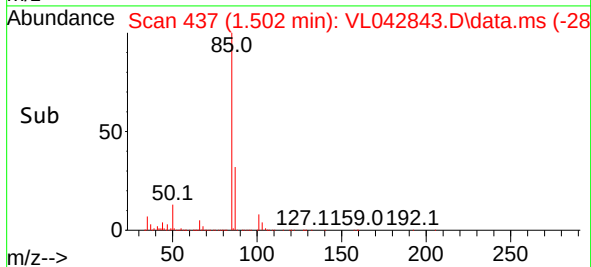
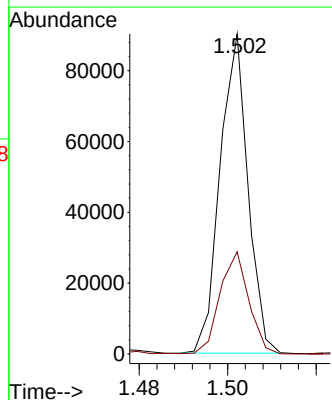
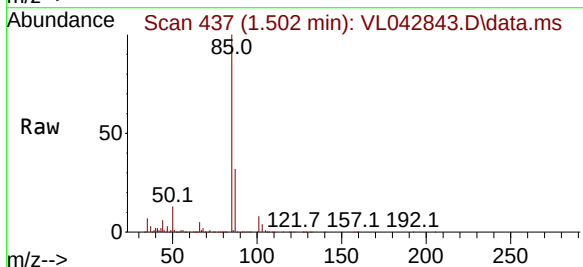
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

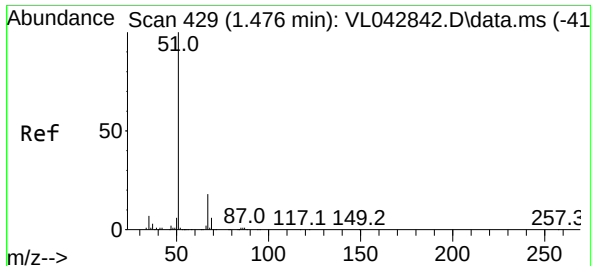
Tgt Ion: 49 Resp: 130555
 Ion Ratio Lower Upper
 49 100
 128 48.7 23.7 71.1
 130 61.3 30.6 91.6



#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

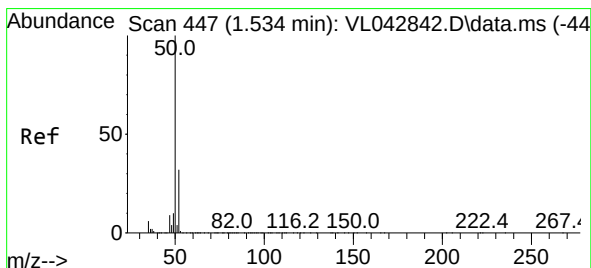
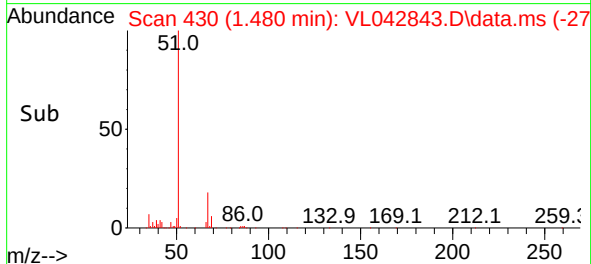
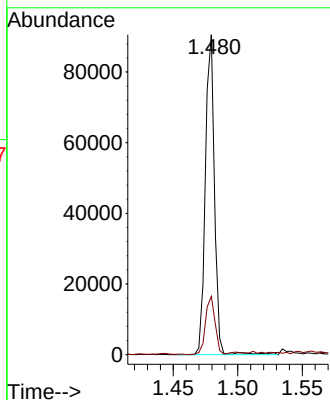
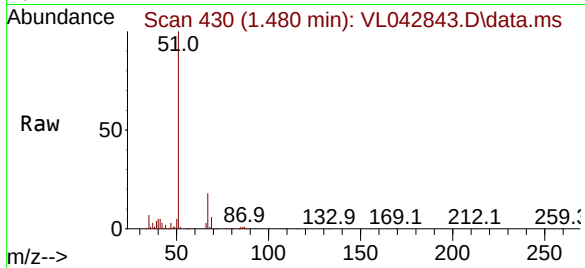




#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

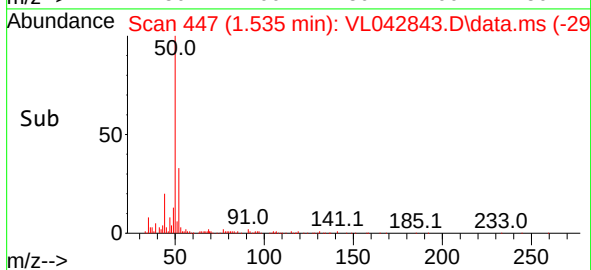
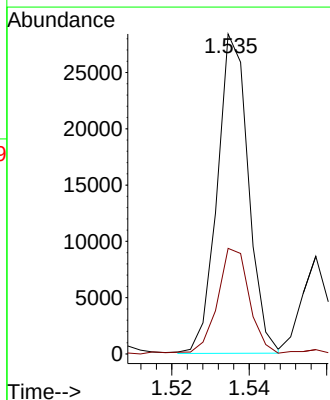
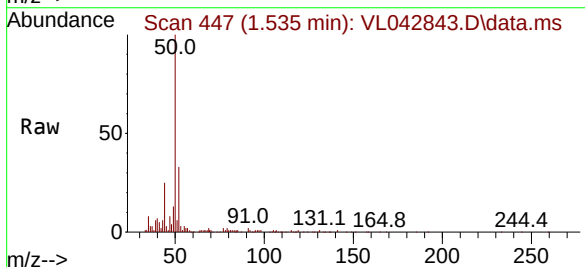
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

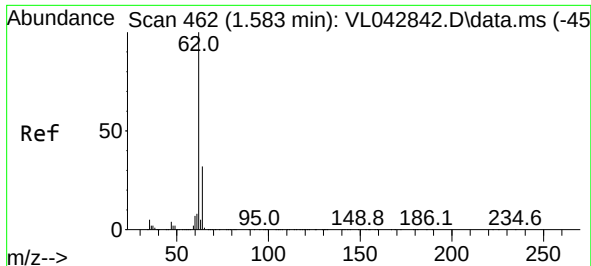
Tgt Ion: 51 Resp: 44759
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3



#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

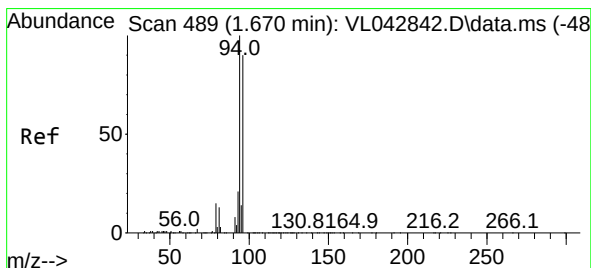
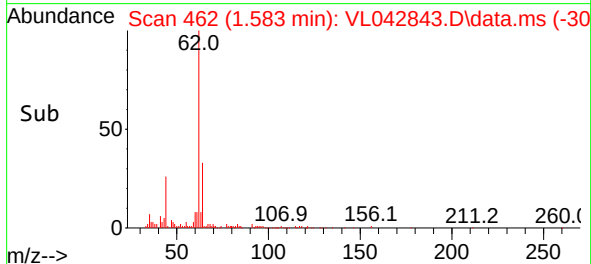
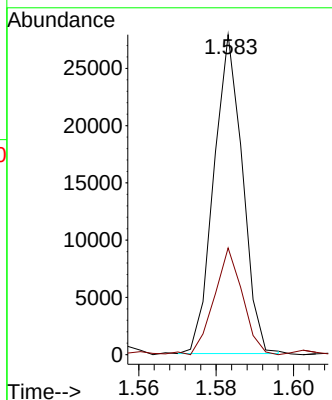
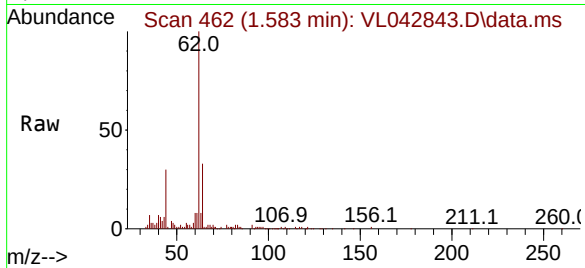




#5
 Vinyl Chloride
 Concen: 1.888 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

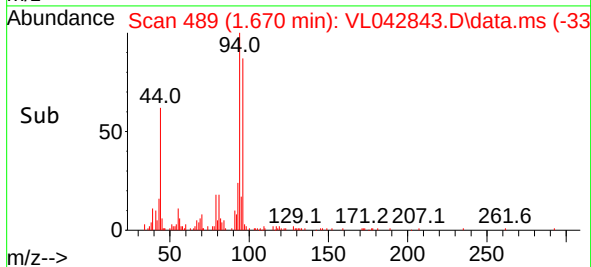
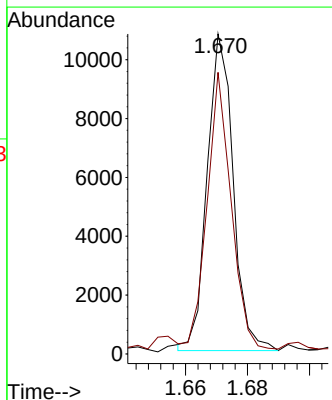
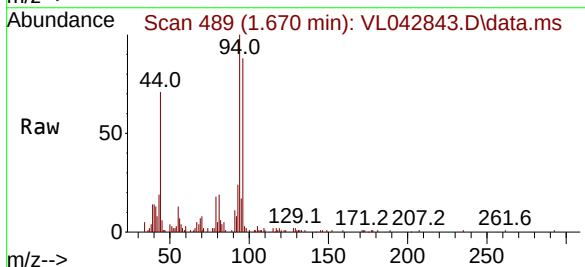
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

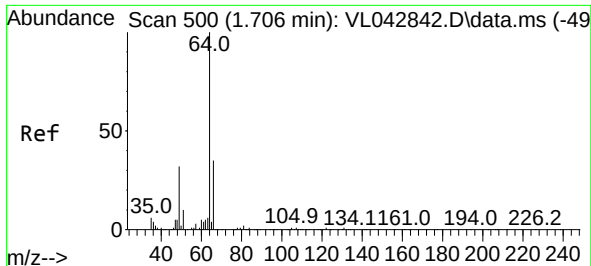
Tgt Ion: 62 Resp: 14358
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.2



#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

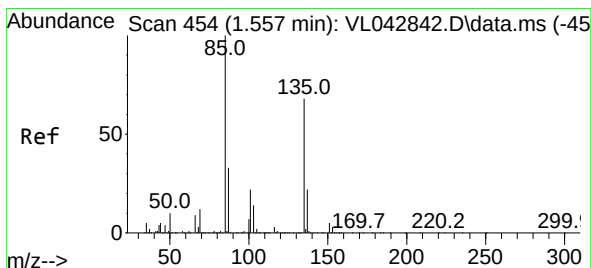
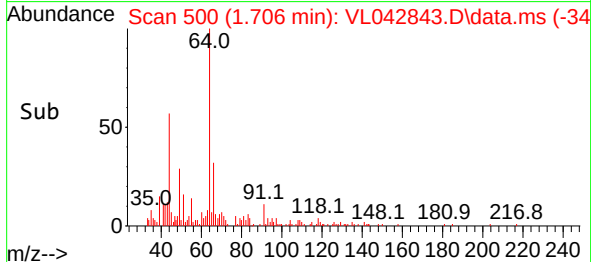
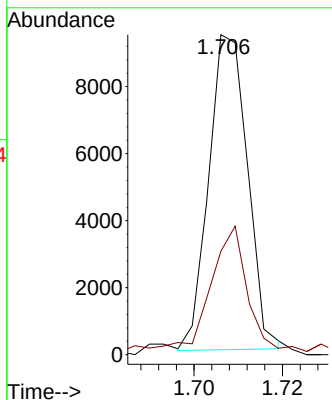
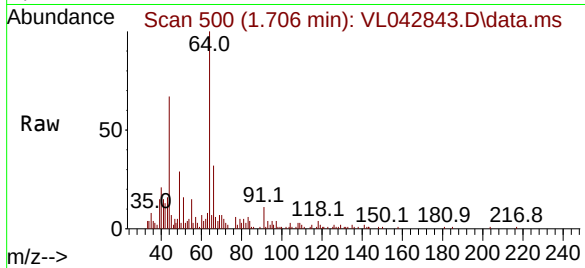




#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

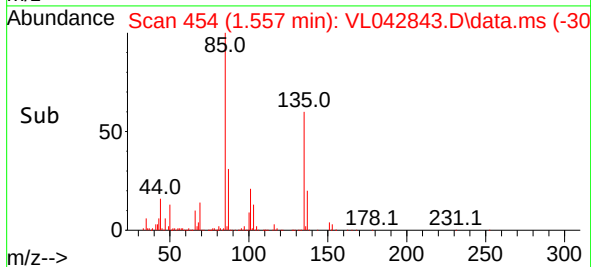
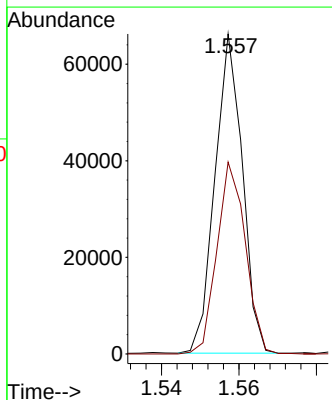
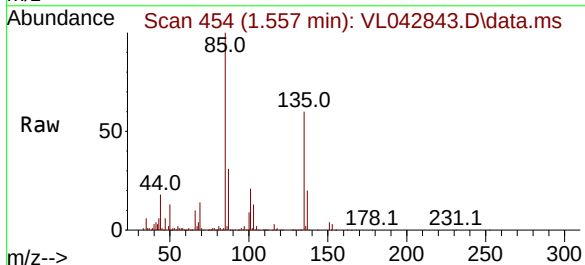
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

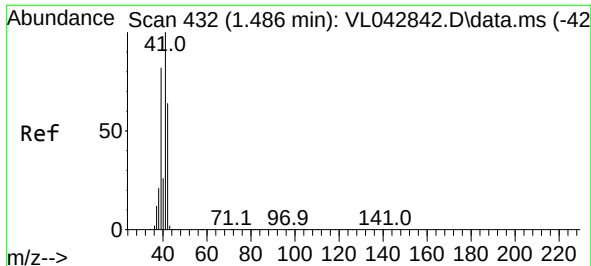
Tgt Ion: 64 Resp: 5717
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8



#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 :

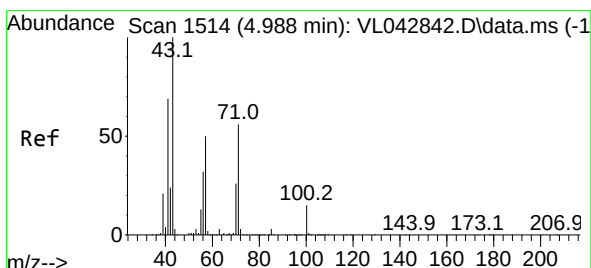
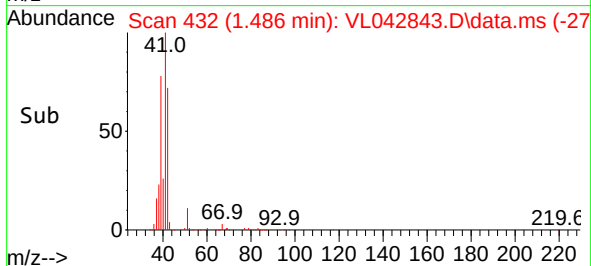
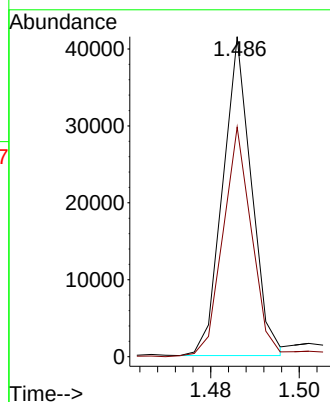
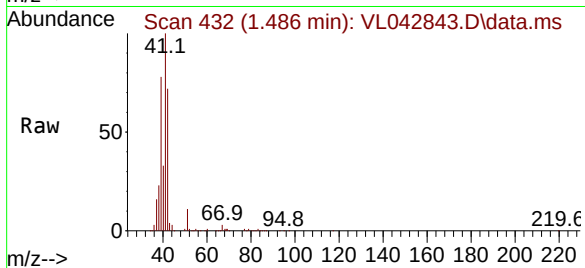
VSTDIC002

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

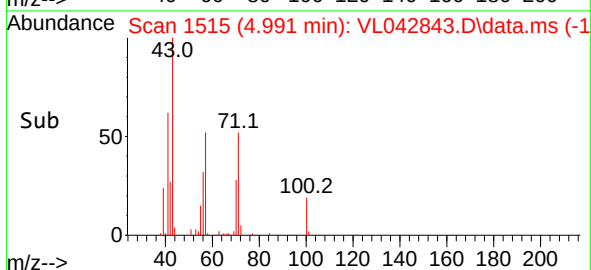
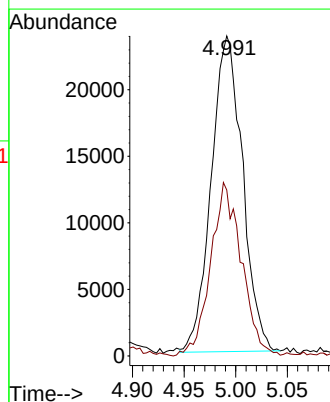
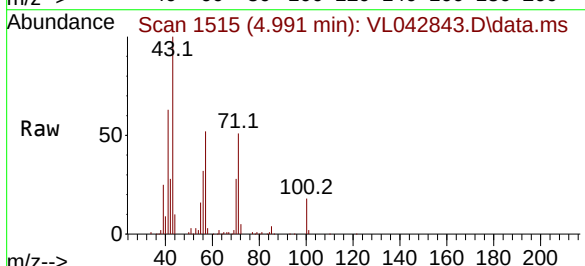
Acq: 13 Aug 2025 09:06

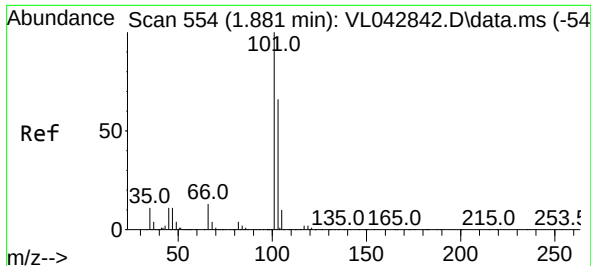
Tgt Ion: 43 Resp: 50062

Ion Ratio Lower Upper

43 100

57 54.1 41.4 62.0

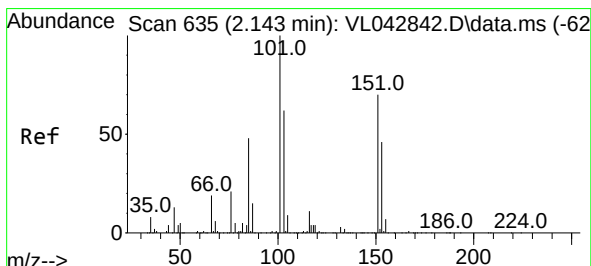
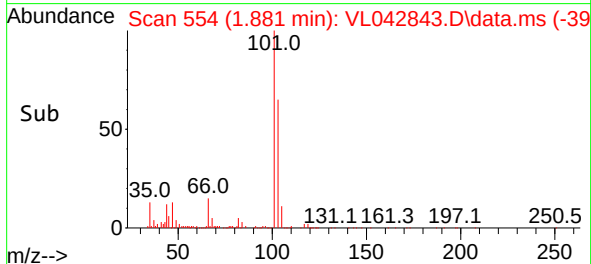
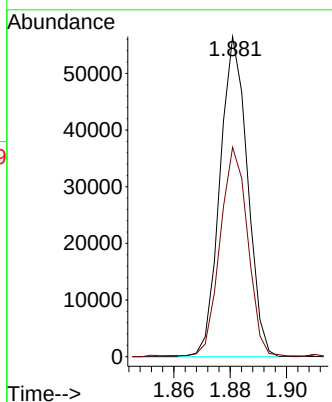
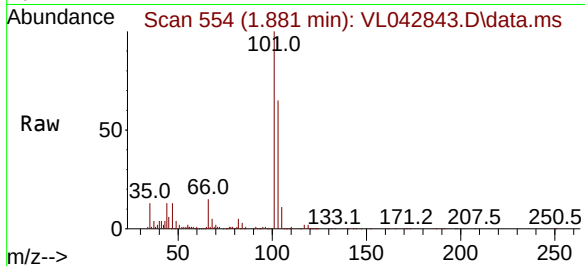




#11
 Trichlorofluoromethane
 Concen: 2.029 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

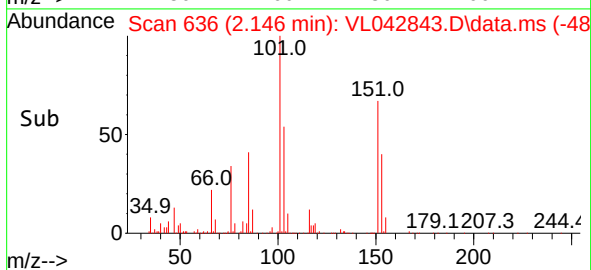
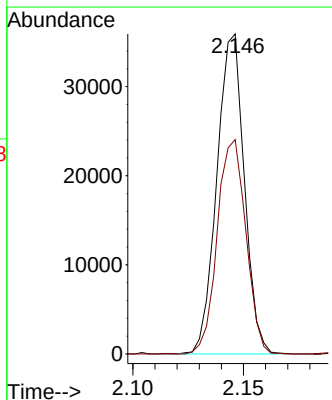
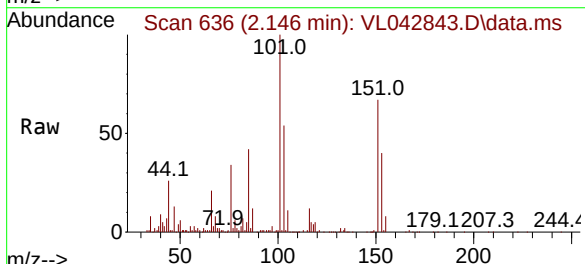
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

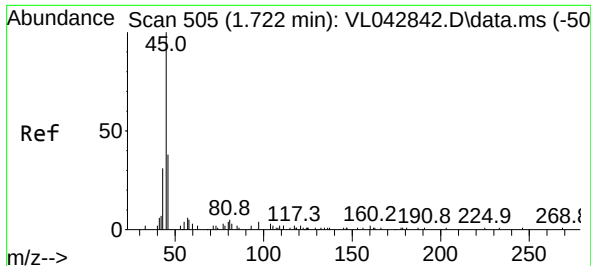
Tgt Ion:101 Resp: 38308
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.5 78.7



#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

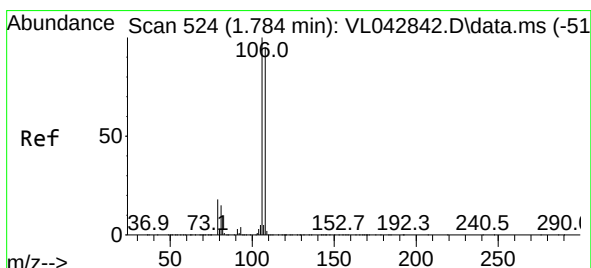
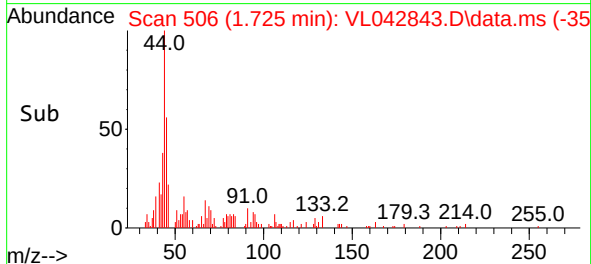
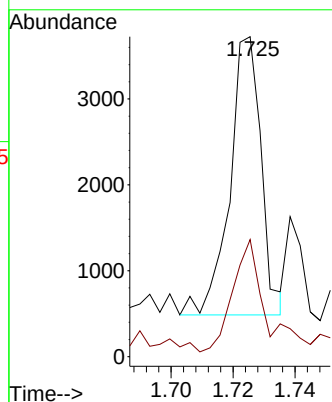
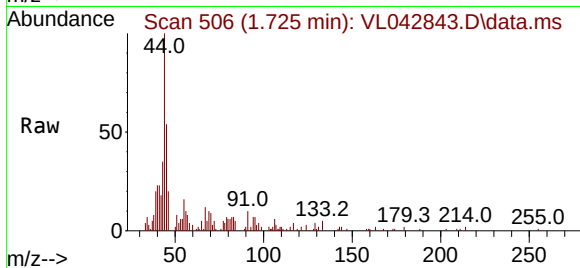




#13
Ethanol
Concen: 2.516 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

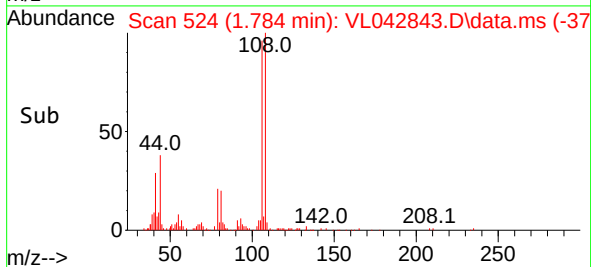
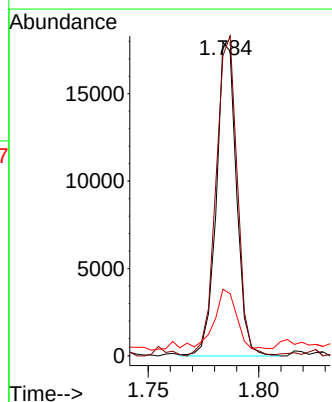
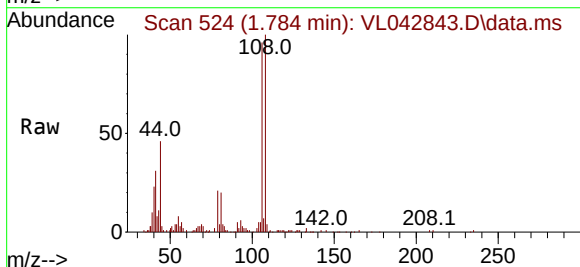
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

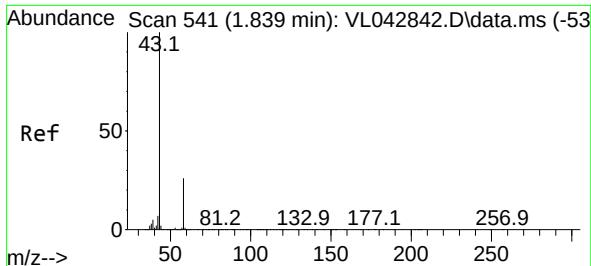
Tgt Ion: 45 Resp: 2277
Ion Ratio Lower Upper
45 100
46 48.3 17.5 69.9



#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 :

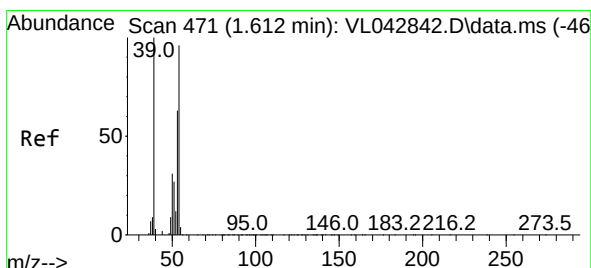
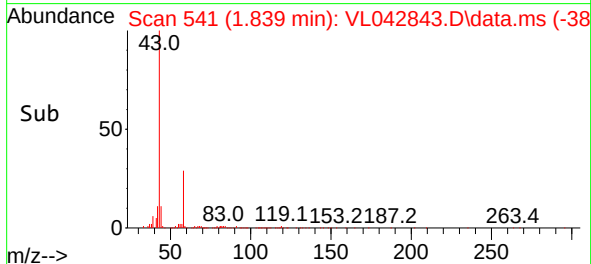
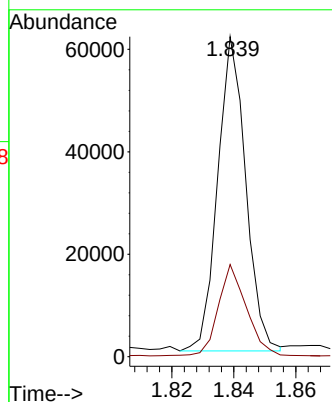
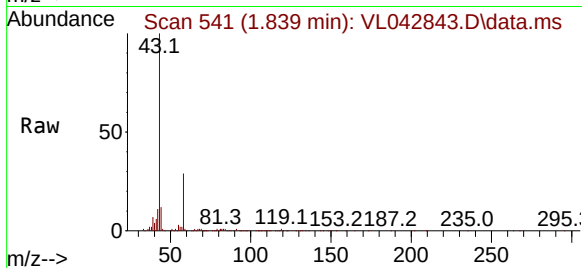
VSTDIC002

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

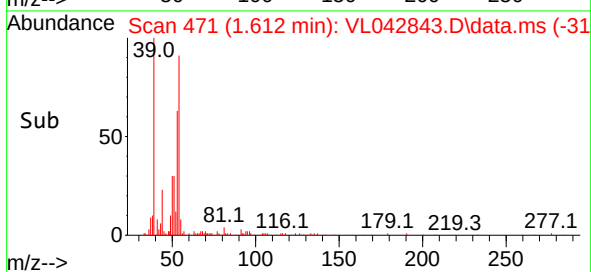
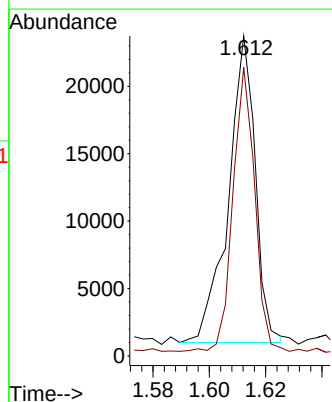
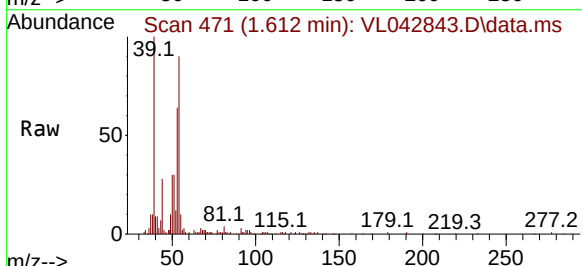
Acq: 13 Aug 2025 09:06

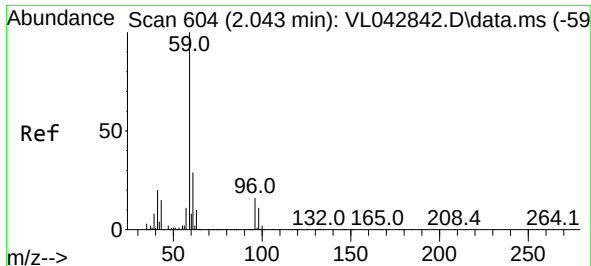
Tgt Ion: 39 Resp: 15122

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 :

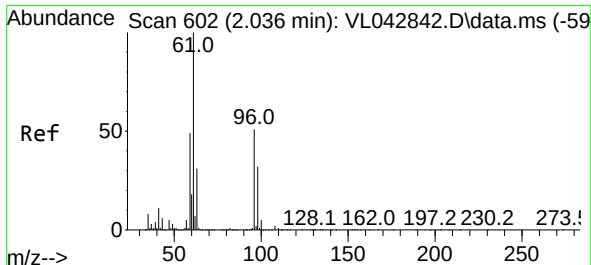
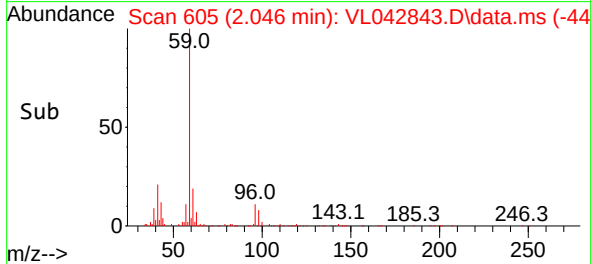
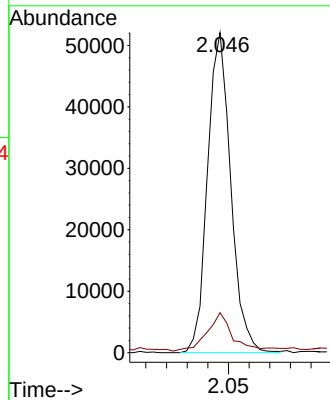
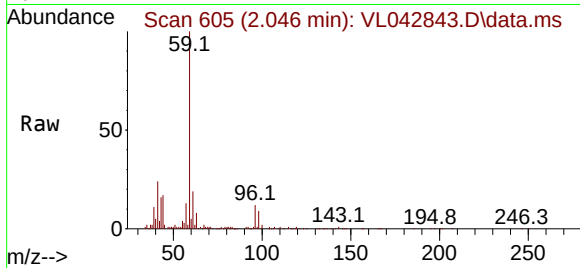
VSTDIC002

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

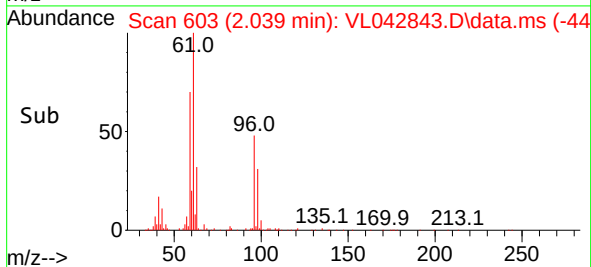
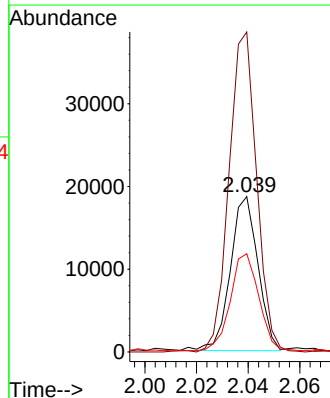
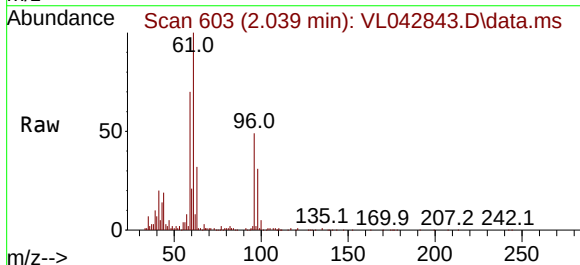
Tgt Ion: 96 Resp: 13883

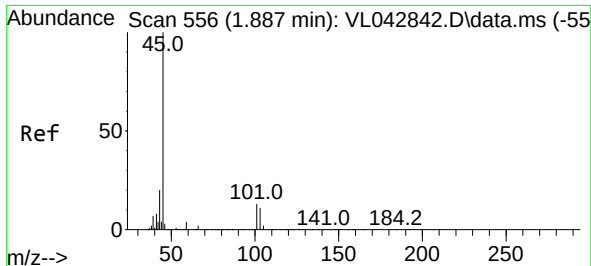
Ion Ratio Lower Upper

96 100

61 207.1 158.2 237.4

98 62.6 50.6 76.0

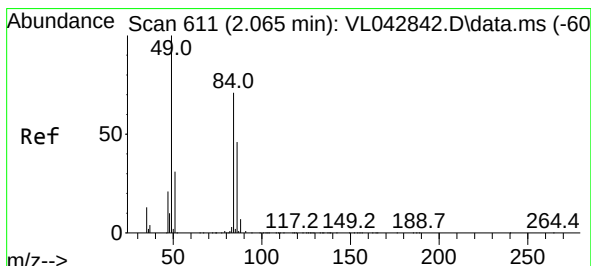
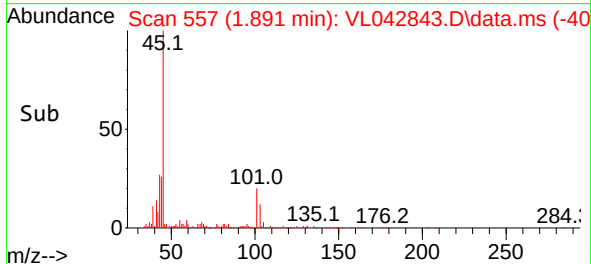
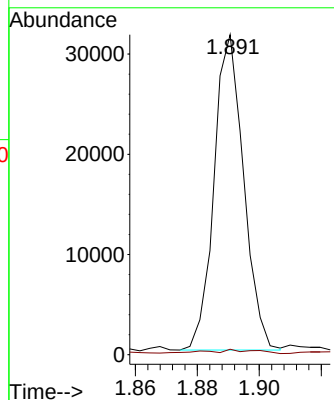
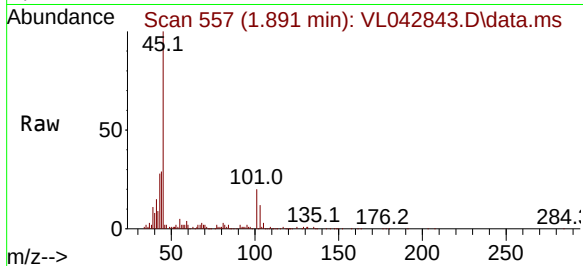




#19
Isopropyl Alcohol
Concen: 2.023 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

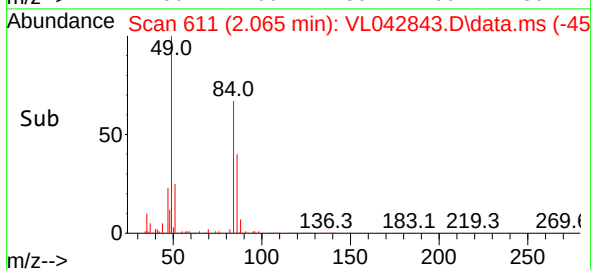
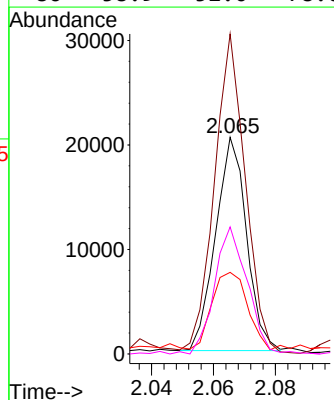
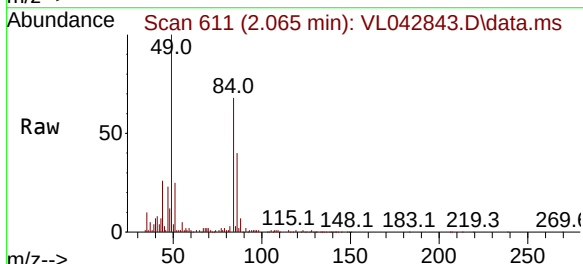
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

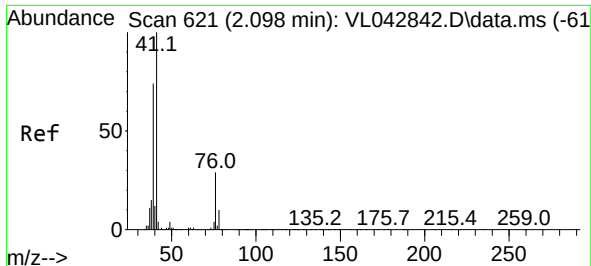
Tgt Ion: 45 Resp: 20866
Ion Ratio Lower Upper
45 100
58 3.1 32.7 49.1#



#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

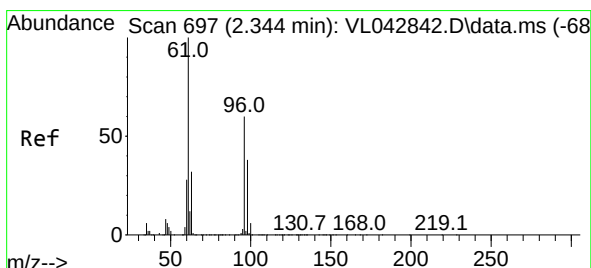
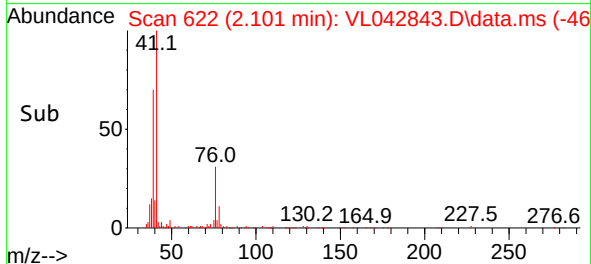
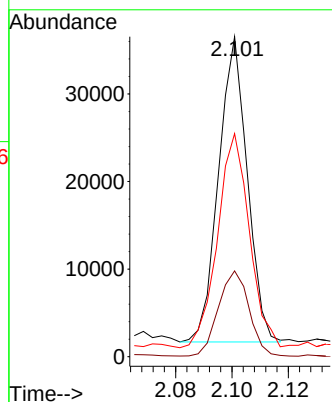
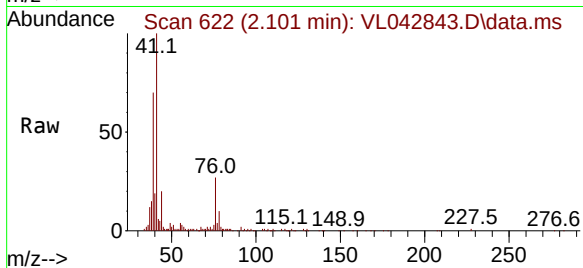
Tgt Ion: 41 Resp: 24662

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

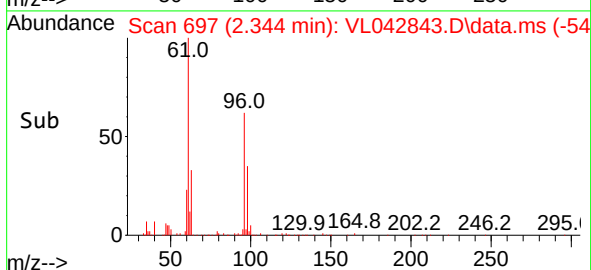
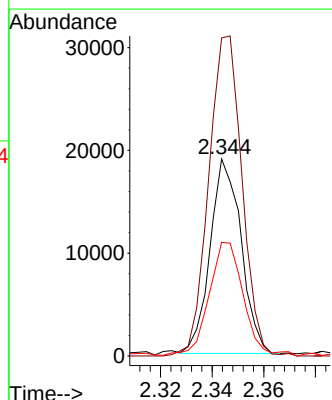
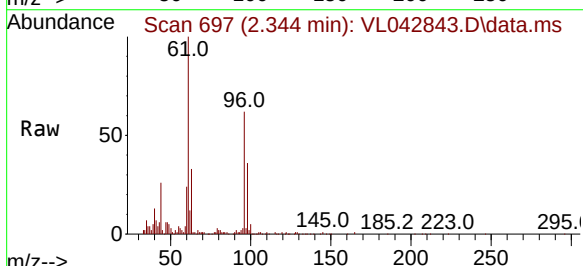
Tgt Ion: 96 Resp: 15773

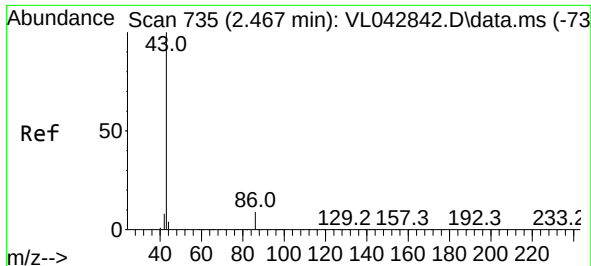
Ion Ratio Lower Upper

96 100

61 162.8 132.6 199.0

98 56.7 50.0 75.0

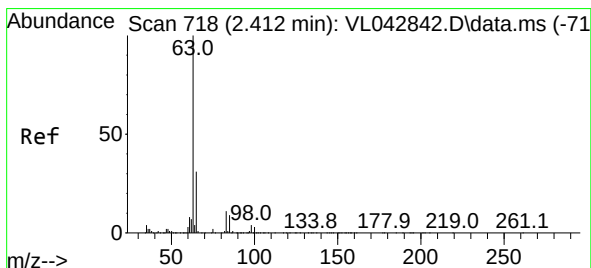
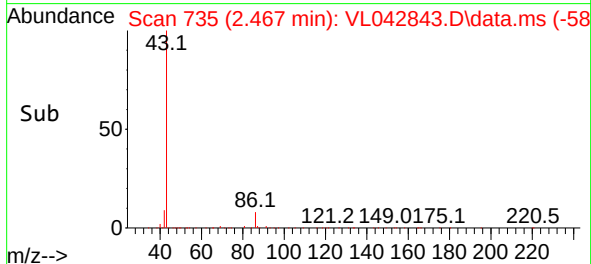
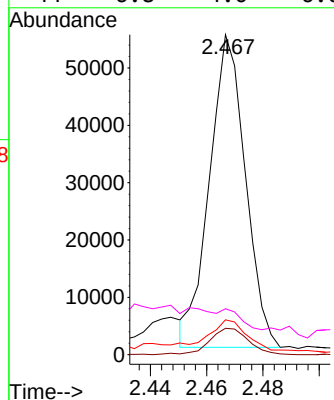
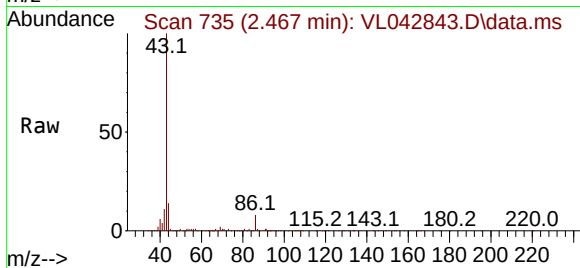




#23
 Vinyl Acetate
 Concen: 2.125 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

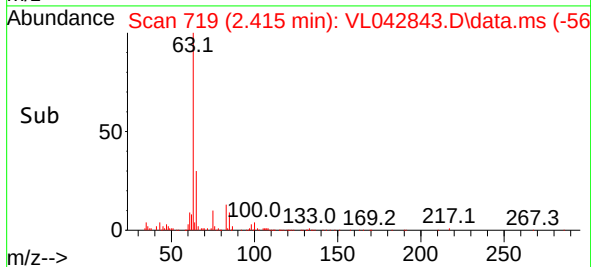
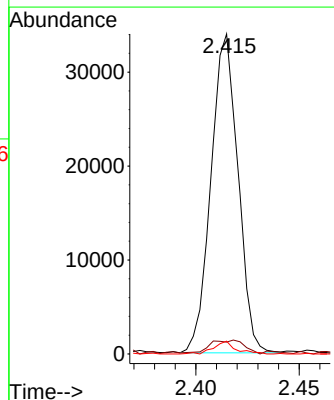
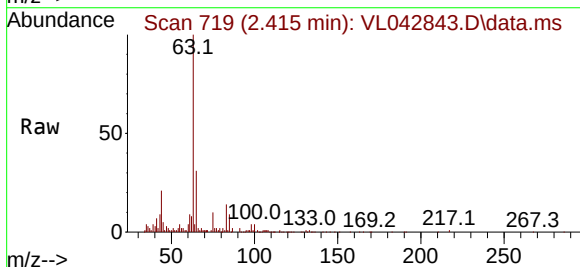
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

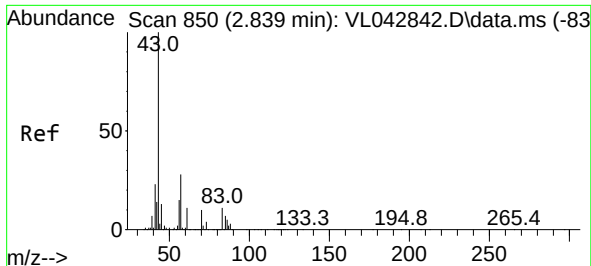
Tgt Ion:	43	Resp:	48269
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	9.7	7.0	10.6
44	6.8	4.0	6.0



#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



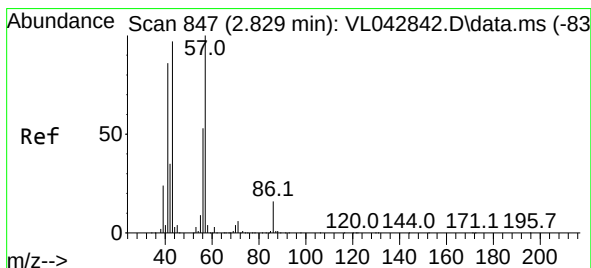
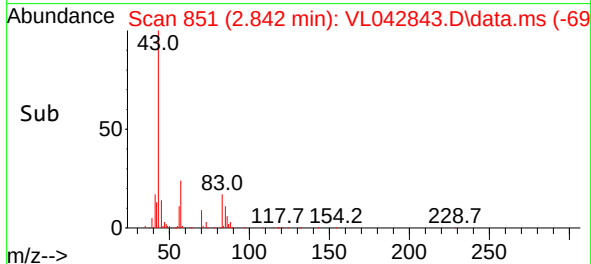
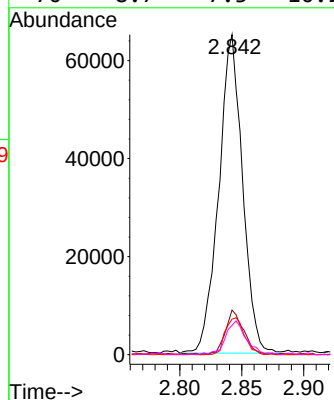
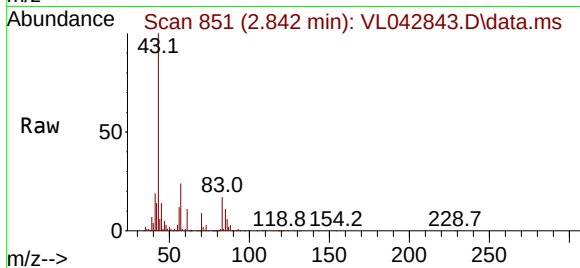


#25
Ethyl Acetate
Concen: 2.077 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 86804

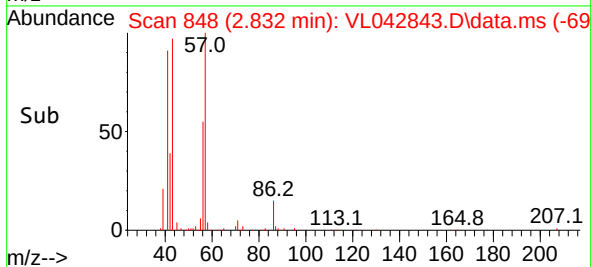
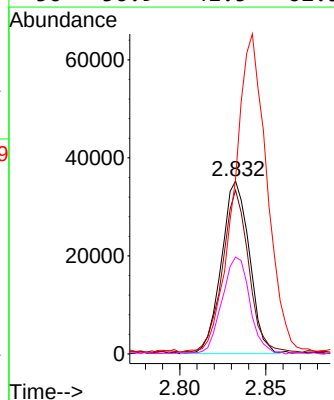
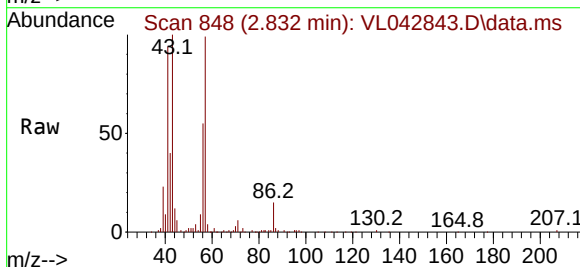
Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.1	12.1
61	9.4	7.4	11.2
70	8.7	7.3	10.9

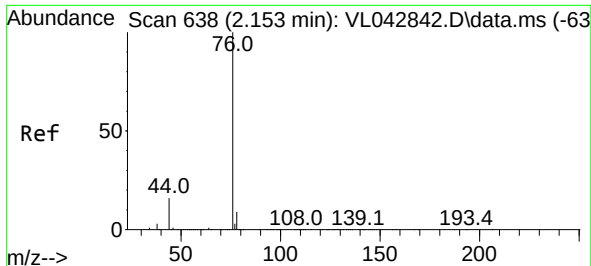


#26
Hexane
Concen: 2.060 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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_1

ClientSampleId :

VSTDIC002

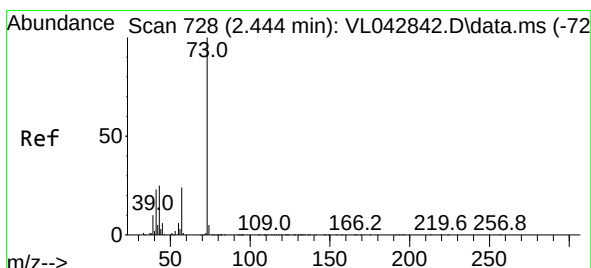
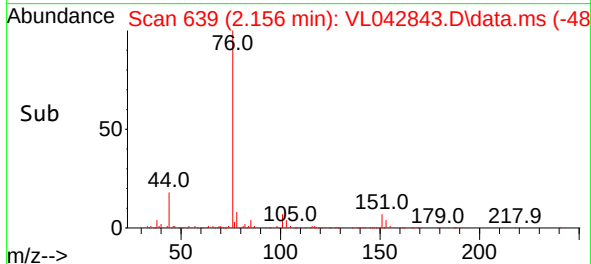
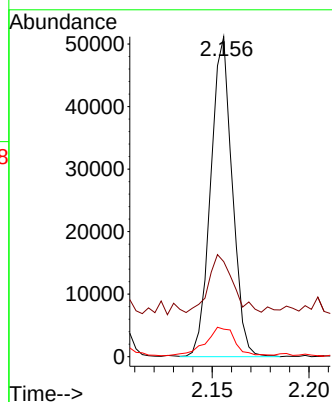
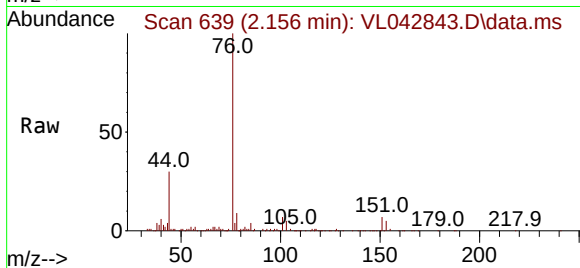
Tgt Ion: 76 Resp: 39466

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

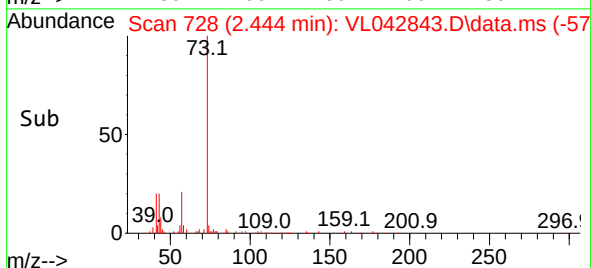
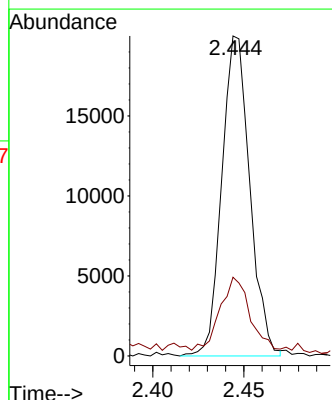
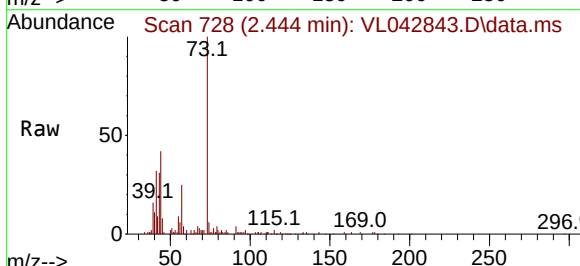
Acq: 13 Aug 2025 09:06

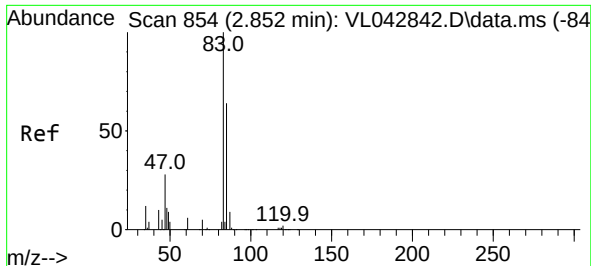
Tgt Ion: 73 Resp: 21341

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 :

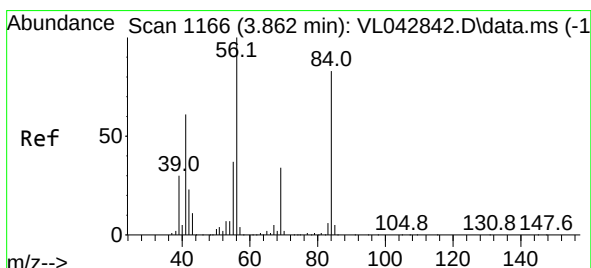
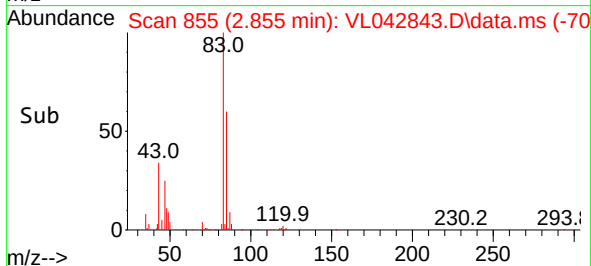
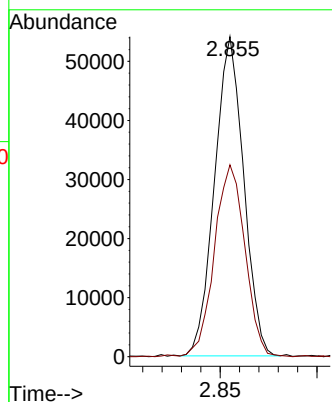
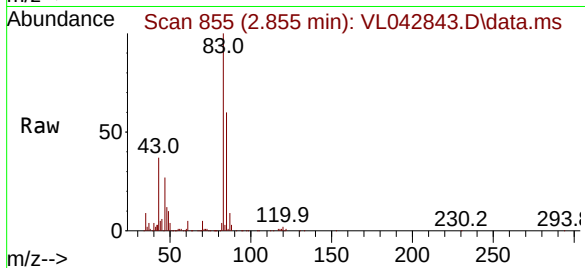
VSTDIC002

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

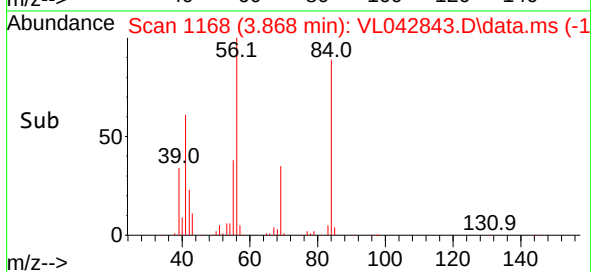
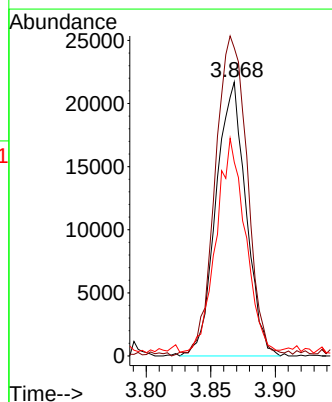
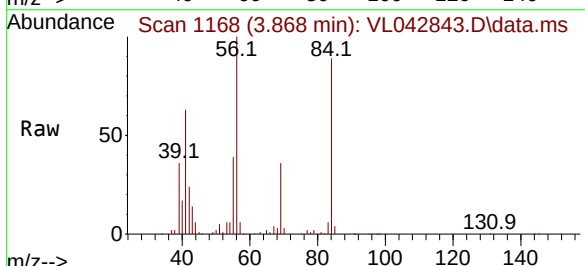
Tgt Ion: 84 Resp: 34992

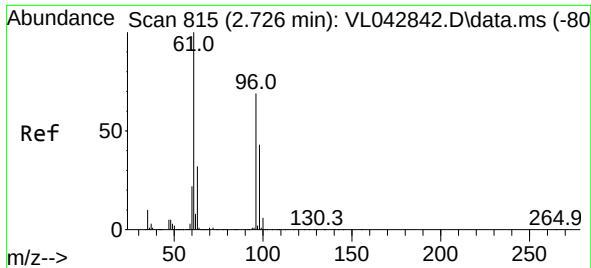
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

41 79.6 61.3 91.9

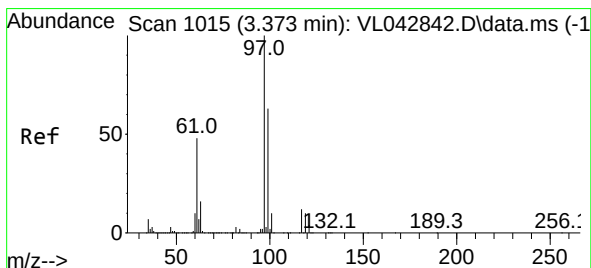
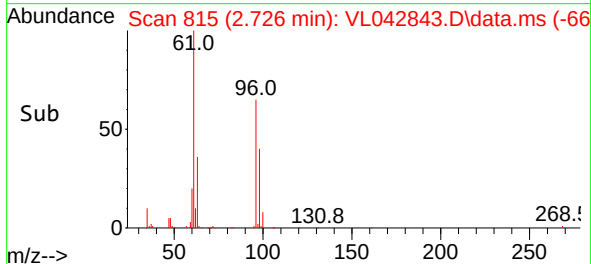
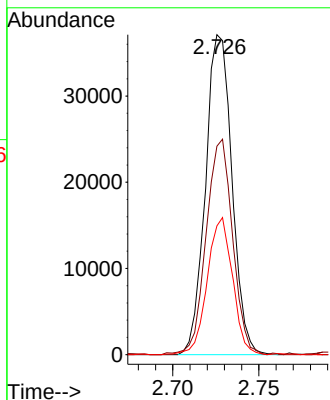
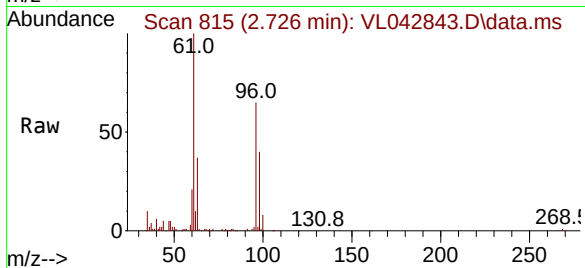




#31
 cis-1,2-Dichloroethene
 Concen: 2.062 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

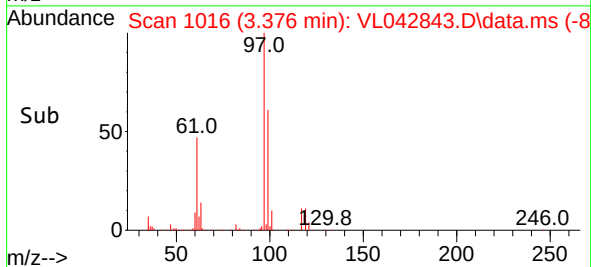
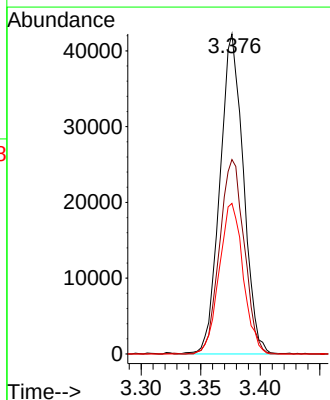
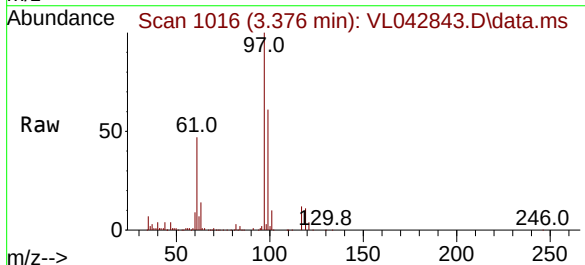
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

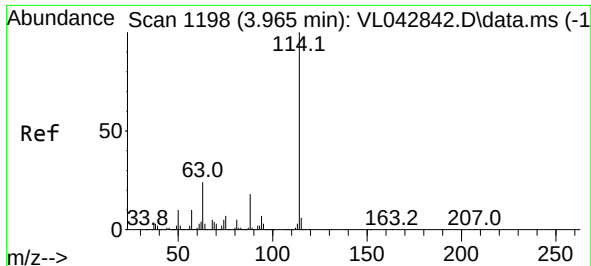
Tgt Ion:	61	Resp:	39783
Ion	Ratio	Lower	Upper
61	100		
96	64.8	55.0	82.6
98	39.9	34.3	51.5



#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

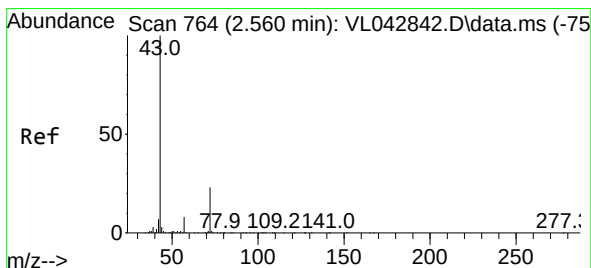
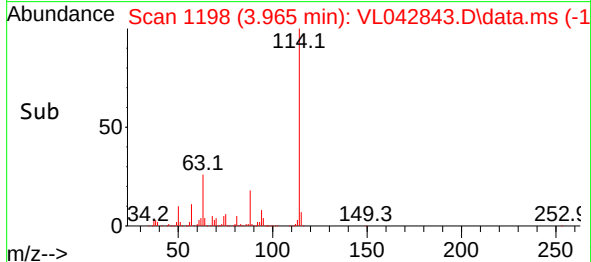
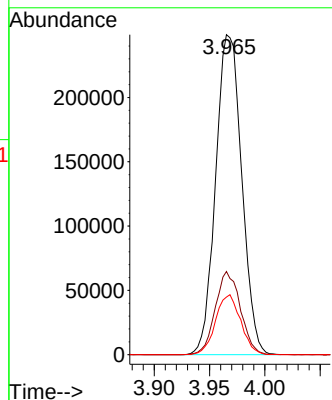
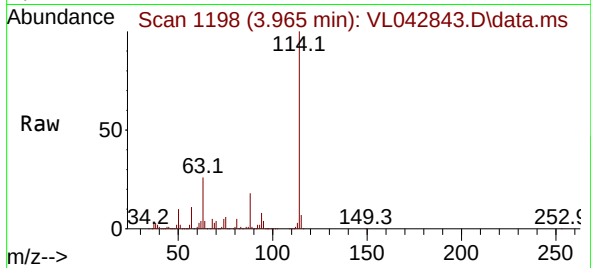




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

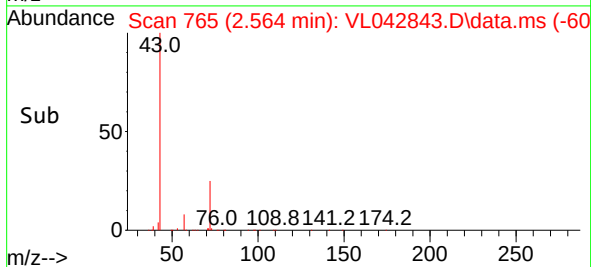
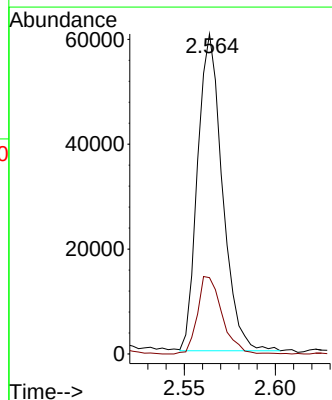
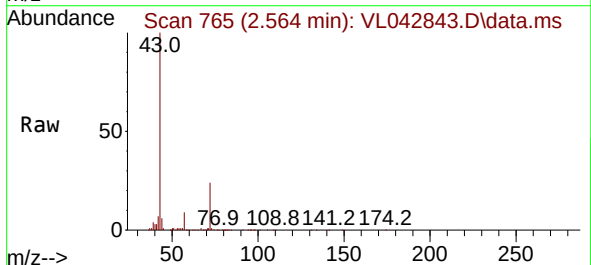
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

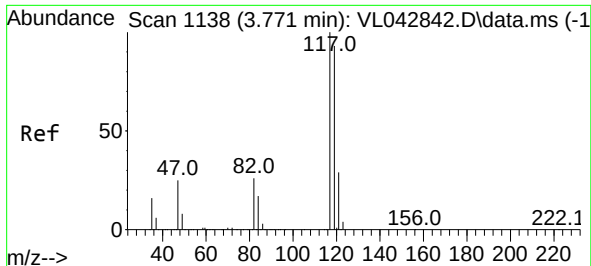
Tgt Ion:114 Resp: 408144
 Ion Ratio Lower Upper
 114 100
 63 25.0 19.7 29.5
 88 18.1 14.4 21.6



#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

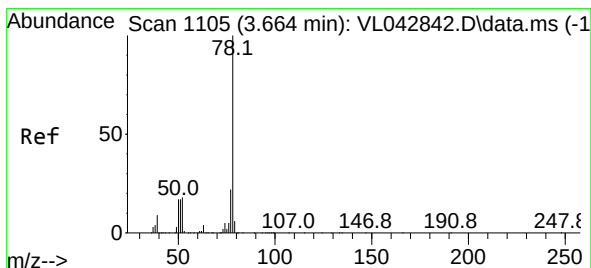
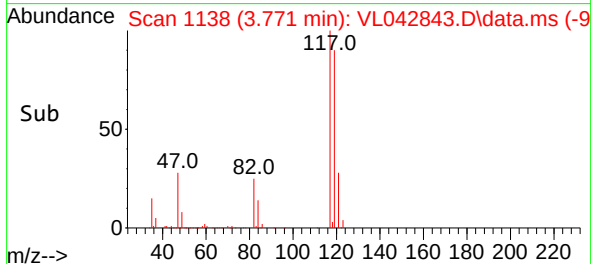
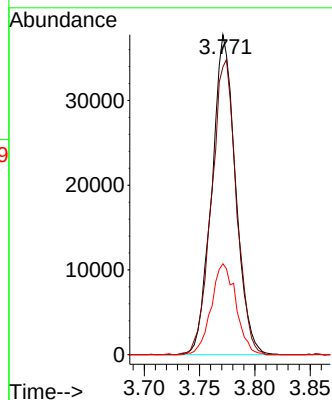
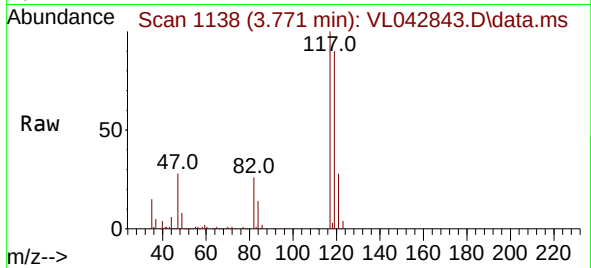




#35
Carbon Tetrachloride
Concen: 2.007 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

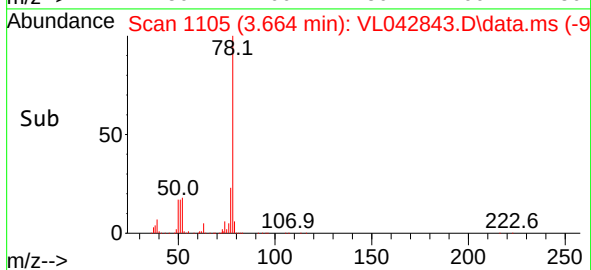
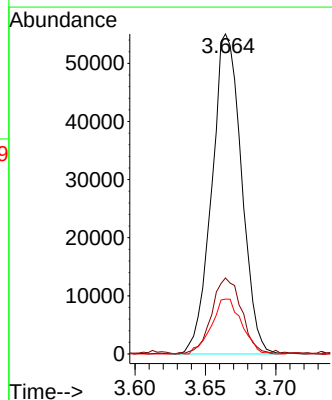
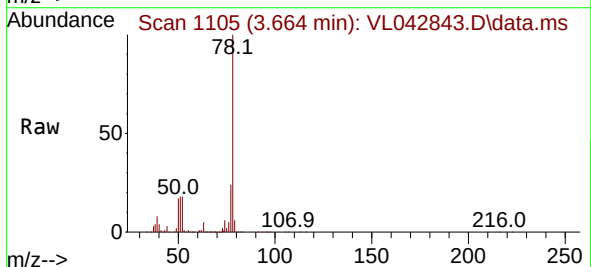
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

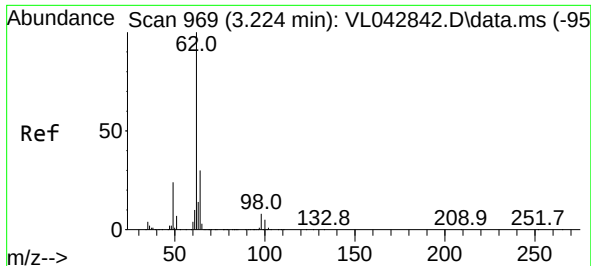
Tgt Ion:117 Resp: 56459
Ion Ratio Lower Upper
117 100
119 89.9 74.7 112.1
121 28.4 23.2 34.8



#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

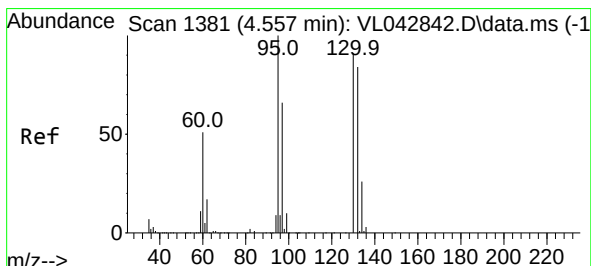
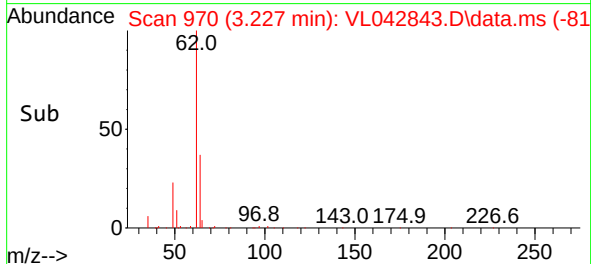
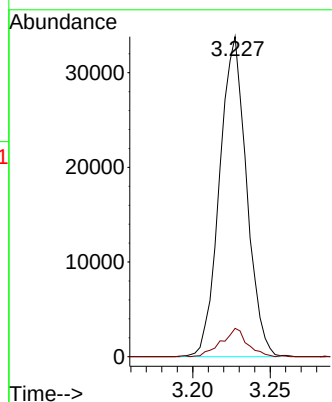
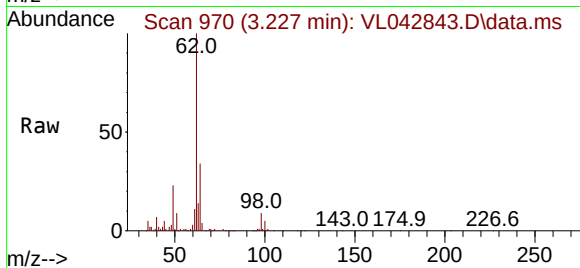




#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

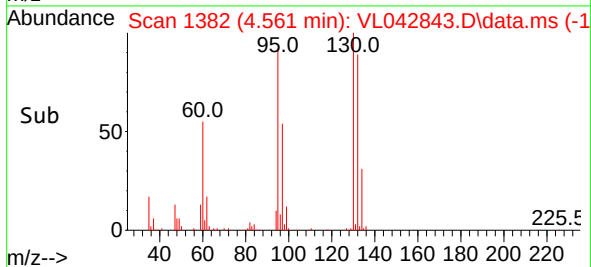
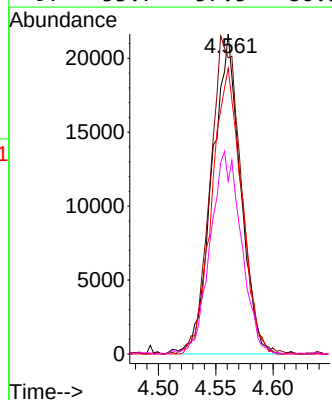
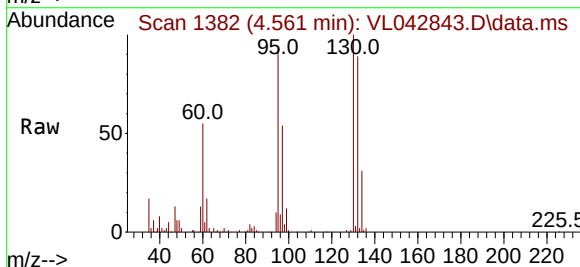
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

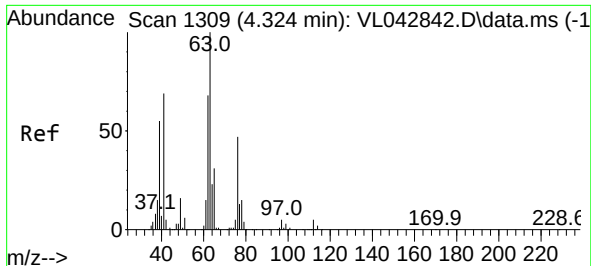
Tgt Ion: 62 Resp: 41034
Ion Ratio Lower Upper
62 100
98 8.6 5.9 8.9



#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

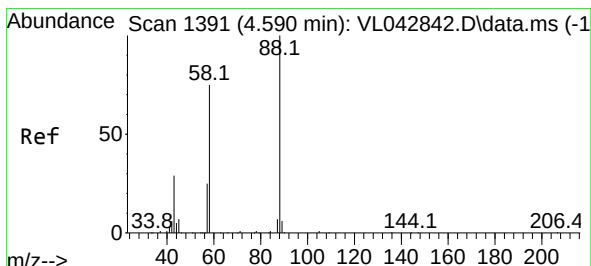
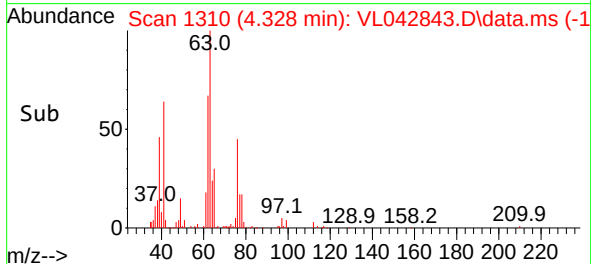
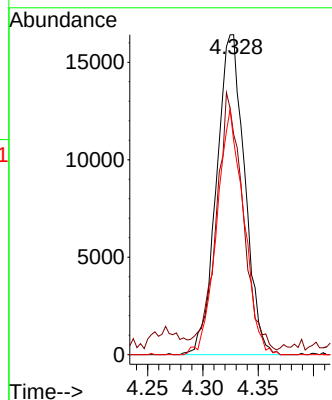
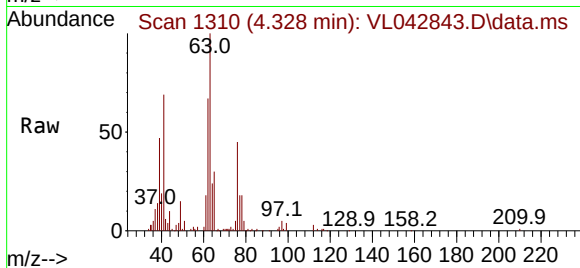
Tgt Ion: 63 Resp: 29059

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

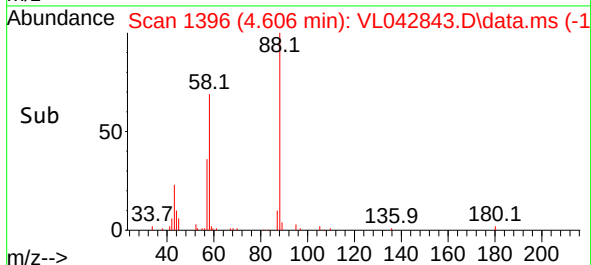
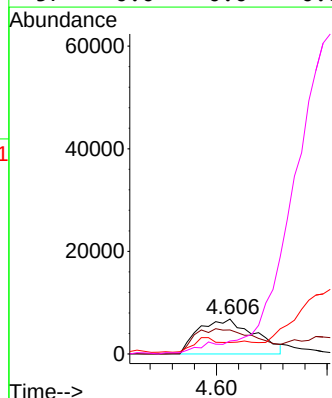
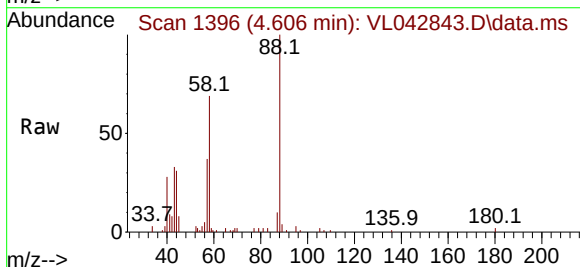
Ion Ratio Lower Upper

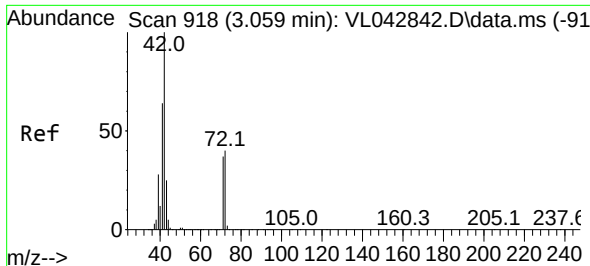
88 100

58 78.4 53.8 80.6

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

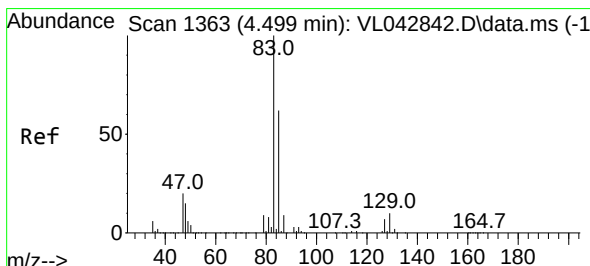
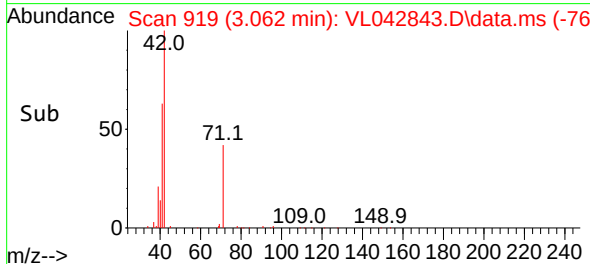
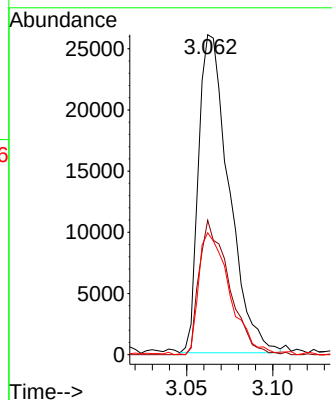
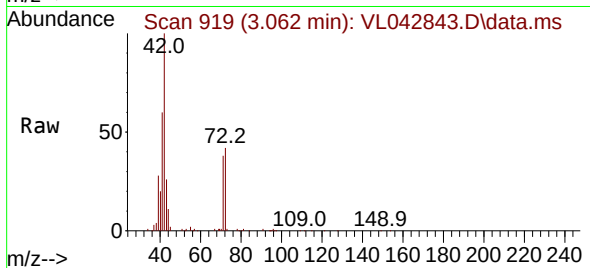




#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

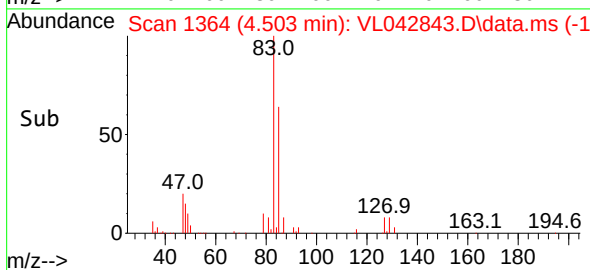
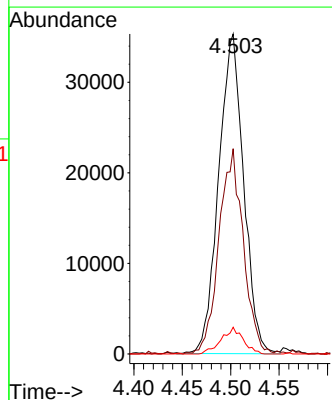
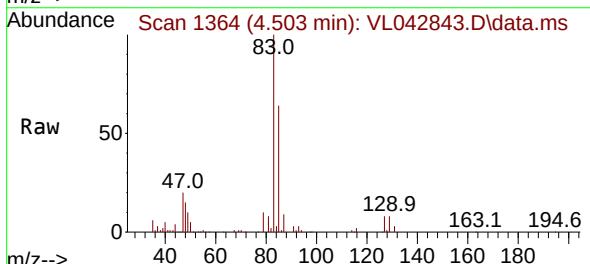
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

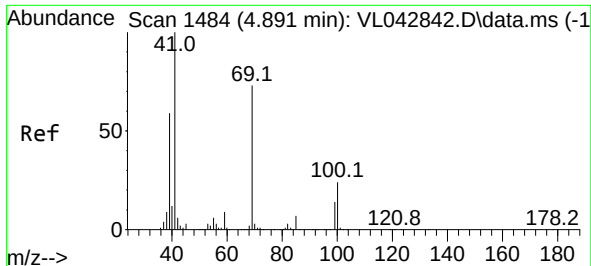
Tgt Ion:	42	Resp:	31994
Ion	Ratio	Lower	Upper
42	100		
72	41.3	32.6	48.8
71	40.1	30.0	45.0



#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

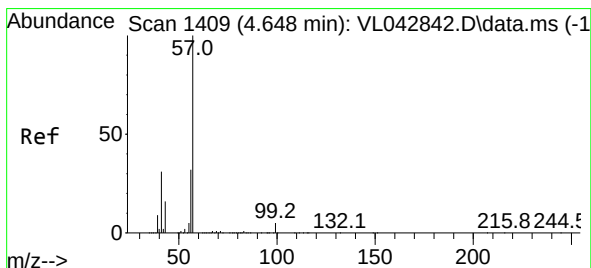
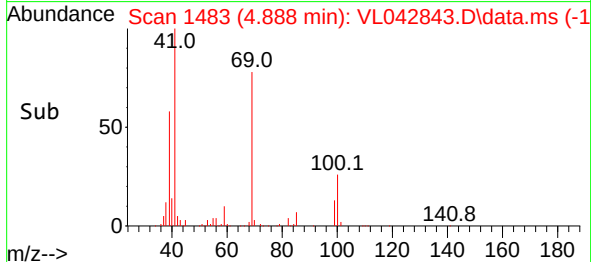
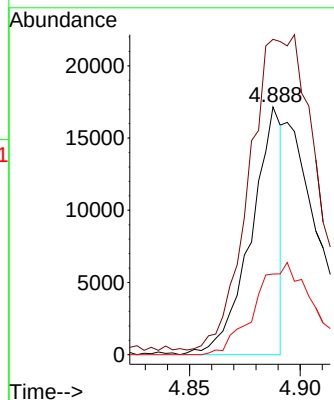
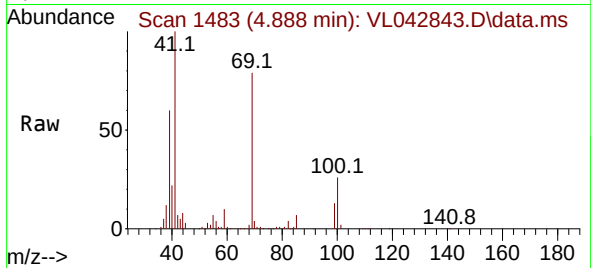




#43
Methyl Methacrylate
Concen: 1.030 ppbv
RT: 4.888 min Scan# 1411
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

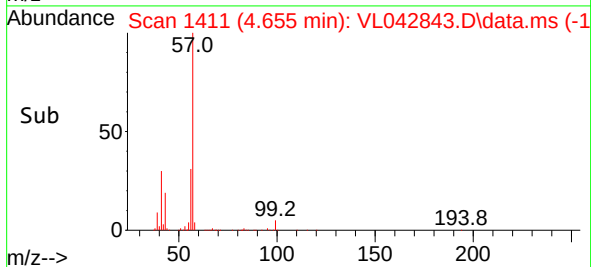
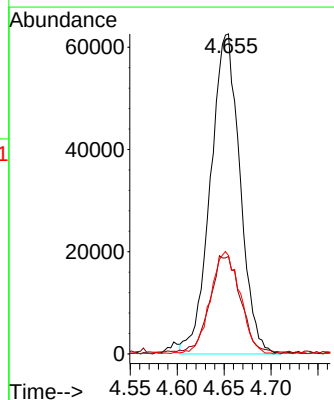
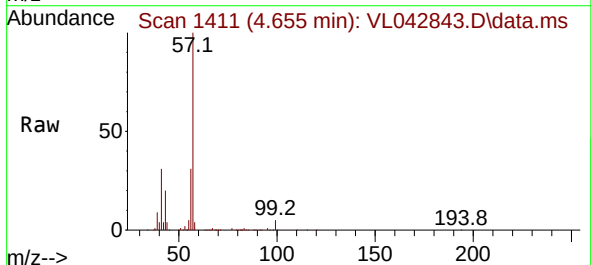
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

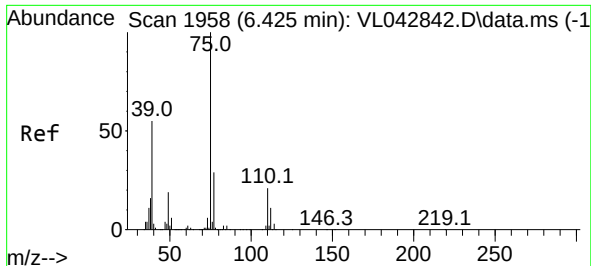
Tgt Ion: 69 Resp: 16511
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0#
100 0.0 30.2 45.4#



#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

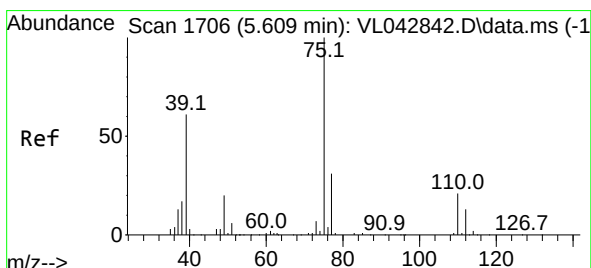
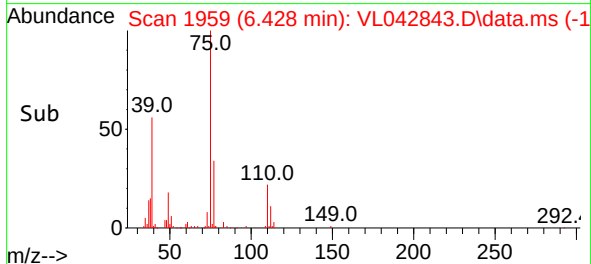
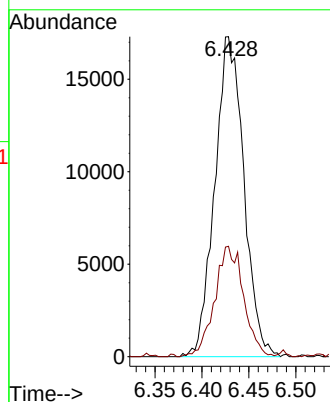
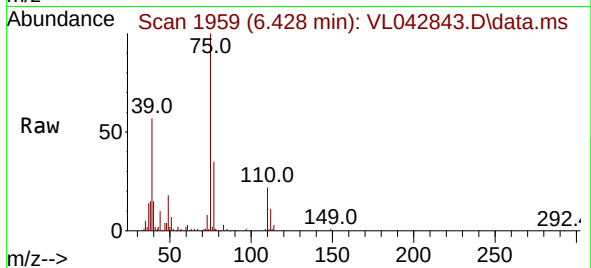




#45
 t-1,3-Dichloropropene
 Concen: 2.048 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

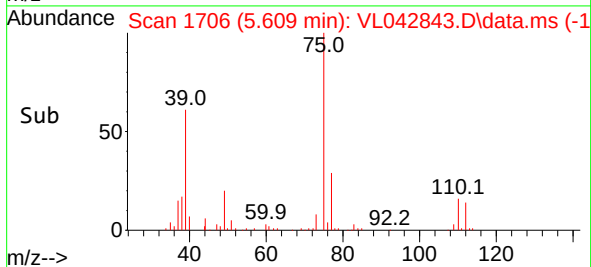
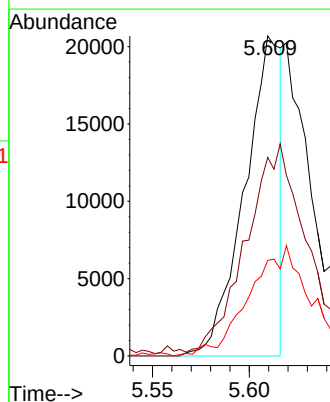
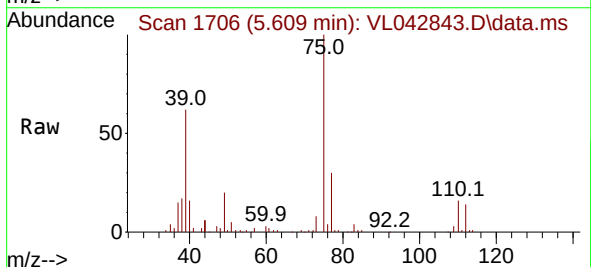
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

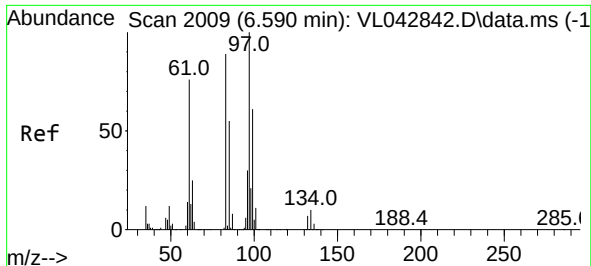
Tgt Ion: 75 Resp: 37248
 Ion Ratio Lower Upper
 75 100
 77 35.2 23.8 35.6



#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



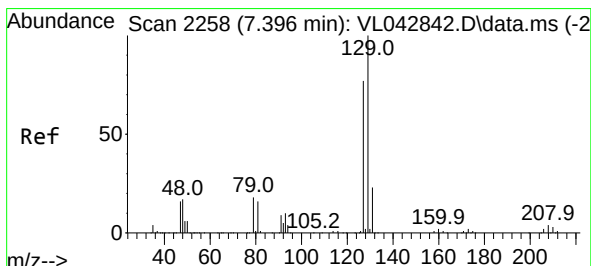
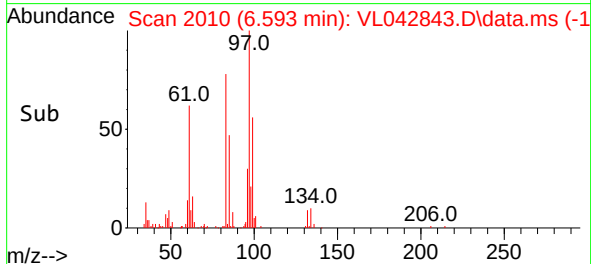
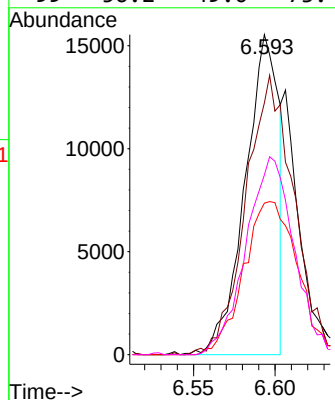
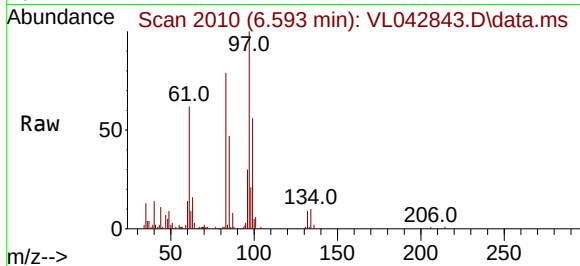


#47
 1,1,2-Trichloroethane
 Concen: 1.466 ppbv
 RT: 6.593 min Scan# 2009
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 97 Resp: 22158

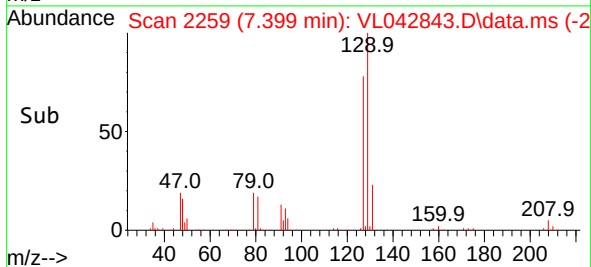
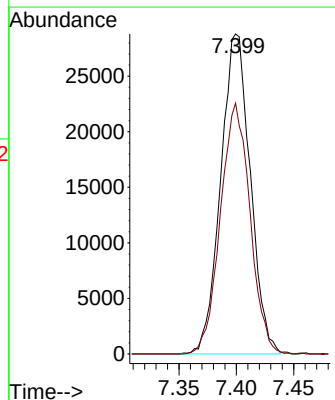
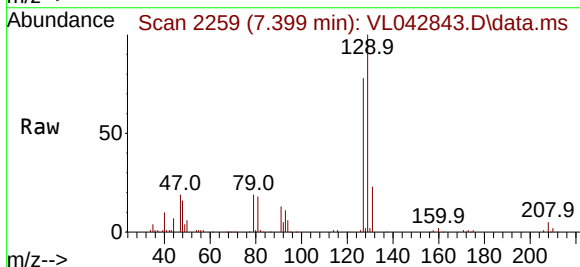
Ion	Ratio	Lower	Upper
97	100		
83	78.7	71.0	106.4
85	47.3	43.6	65.4
99	56.2	49.0	73.4

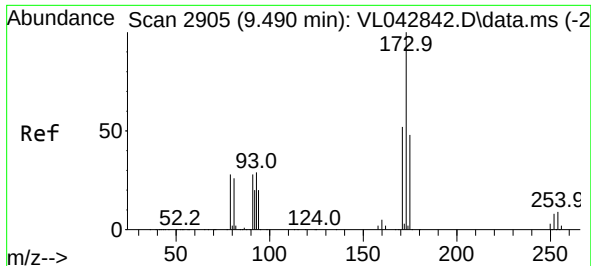


#48
 Dibromochloromethane
 Concen: 2.109 ppbv
 RT: 7.399 min Scan# 2259
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 129 Resp: 51620

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.4	118.2

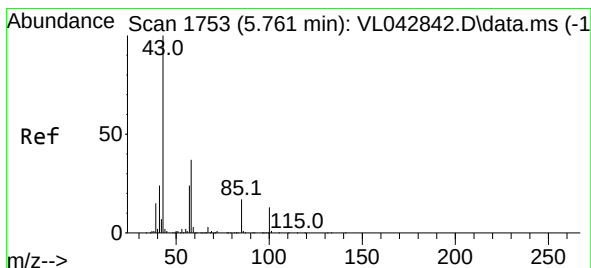
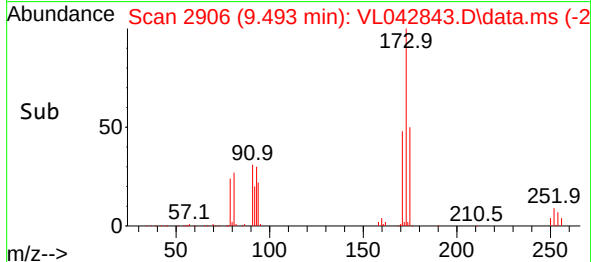
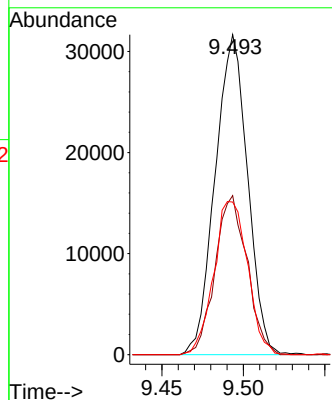
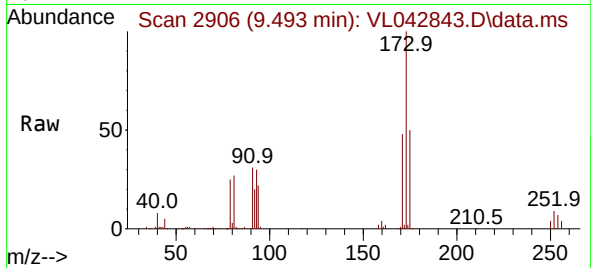




#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

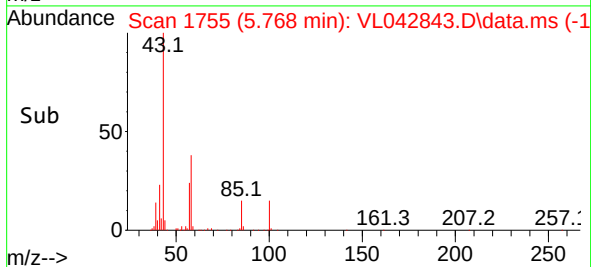
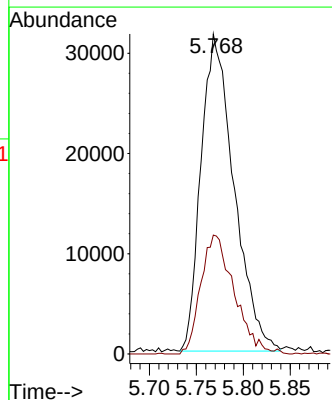
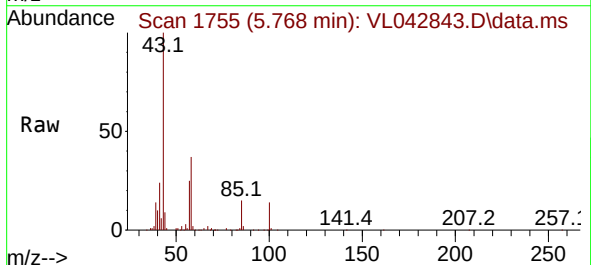
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

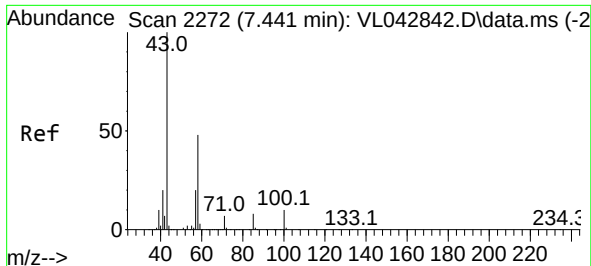
Tgt Ion:173 Resp: 43662
Ion Ratio Lower Upper
173 100
175 49.1 39.2 58.8
171 50.0 41.3 61.9



#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

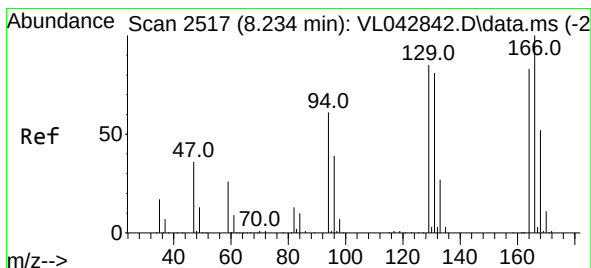
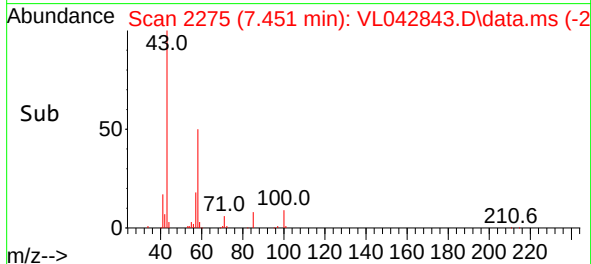
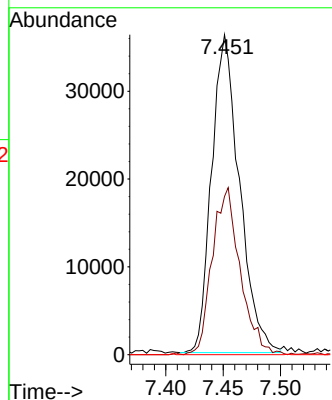
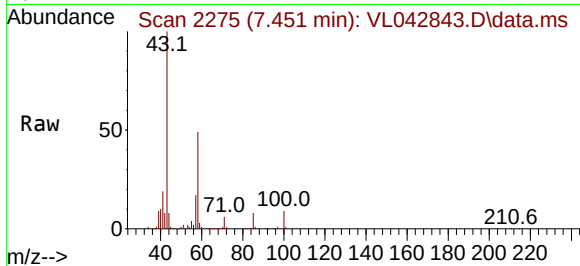




#51
2-Hexanone
Concen: 2.088 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

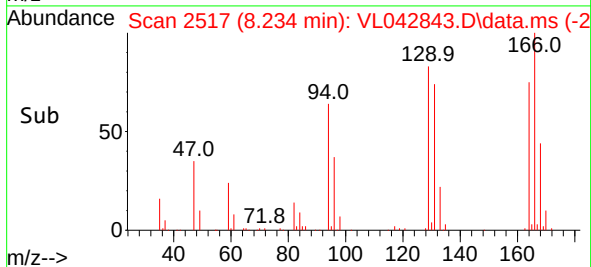
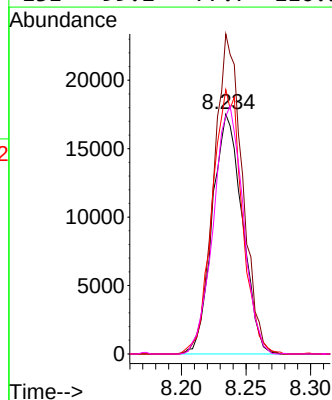
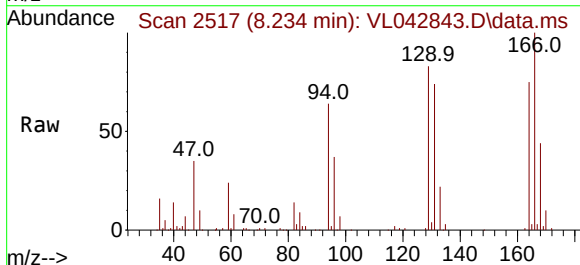
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

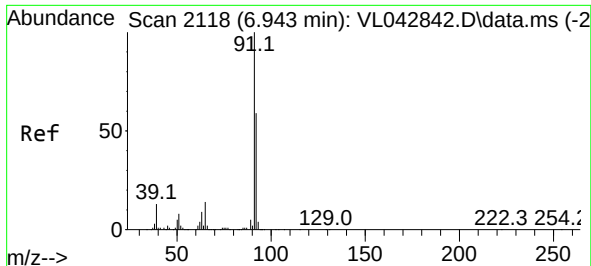
Tgt Ion: 43 Resp: 61210
Ion Ratio Lower Upper
43 100
58 52.9 41.0 61.6
98 0.0 0.1 0.1#



#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

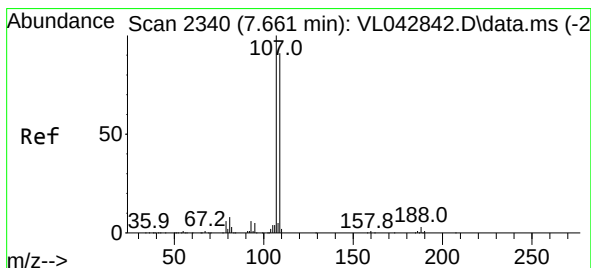
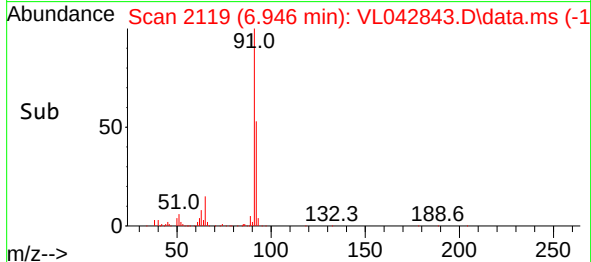
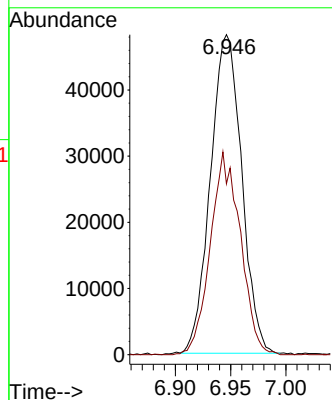
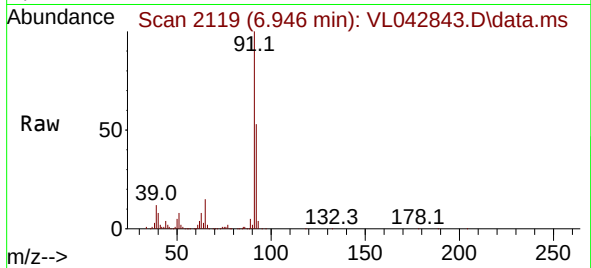




#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

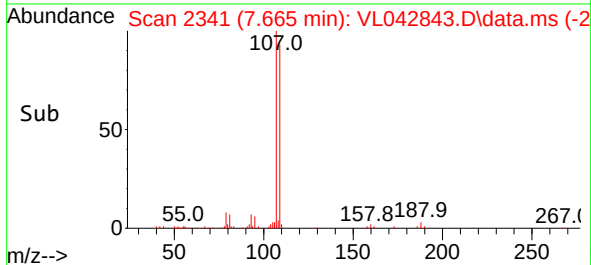
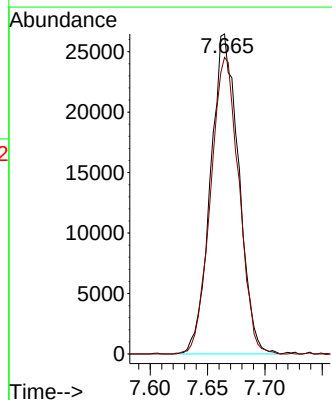
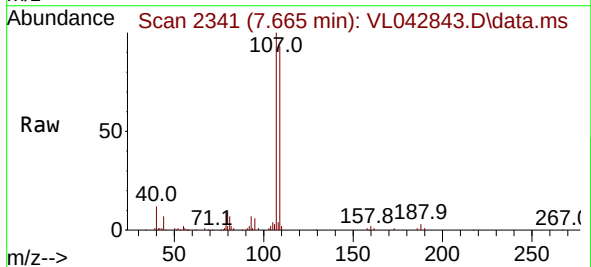
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

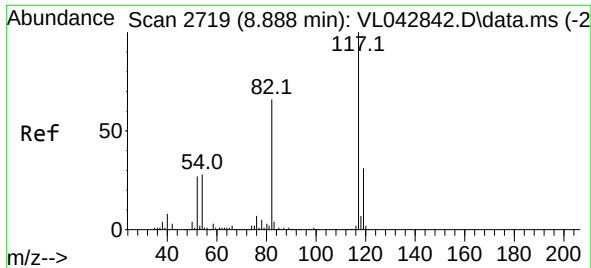
Tgt Ion: 91 Resp: 94690
Ion Ratio Lower Upper
91 100
92 61.1 47.8 71.6



#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

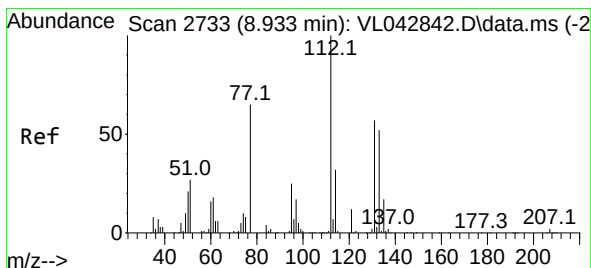
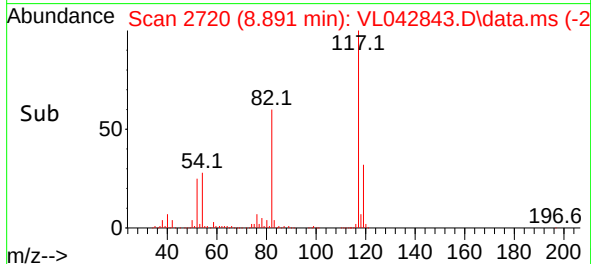
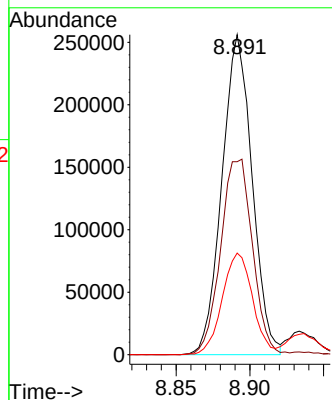
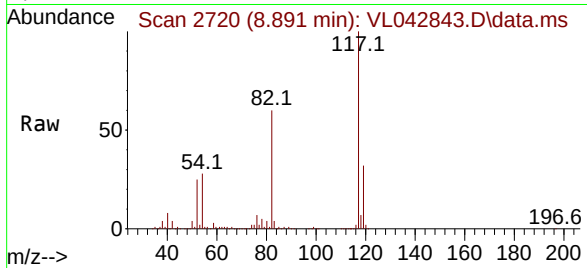




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

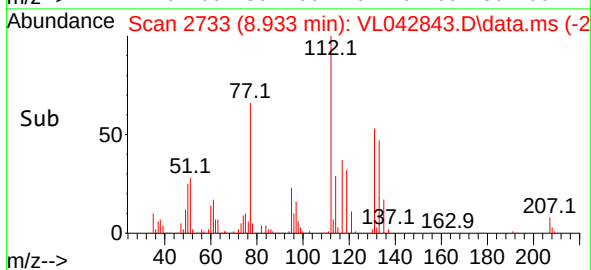
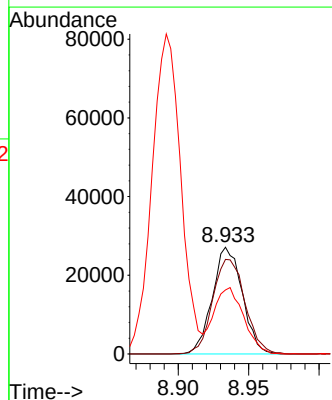
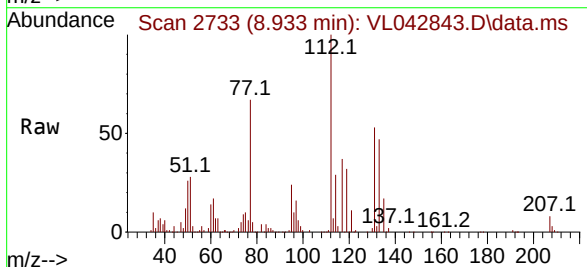
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

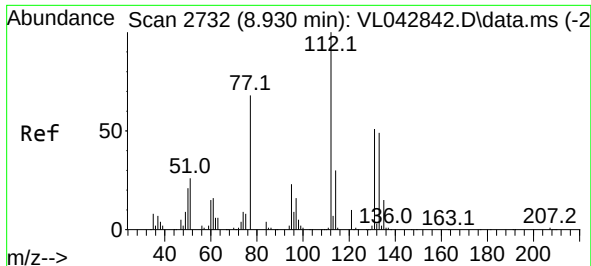
Tgt Ion:117 Resp: 363830
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 32.8 25.9 38.9



#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_L

ClientSampleId :

VSTDIC002

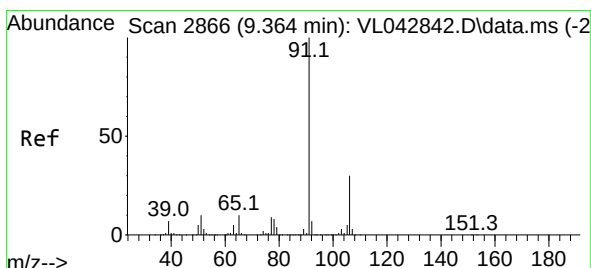
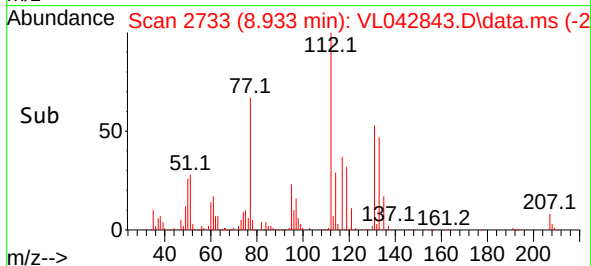
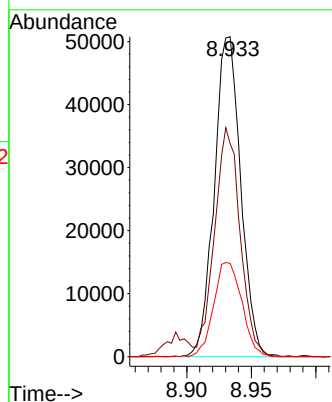
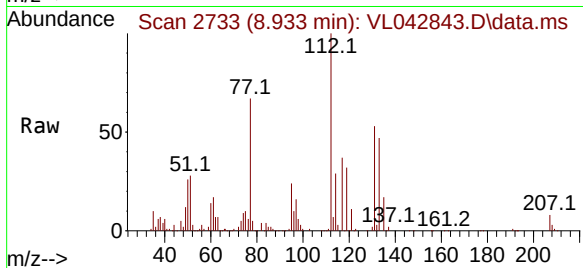
Tgt Ion:112 Resp: 72296

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

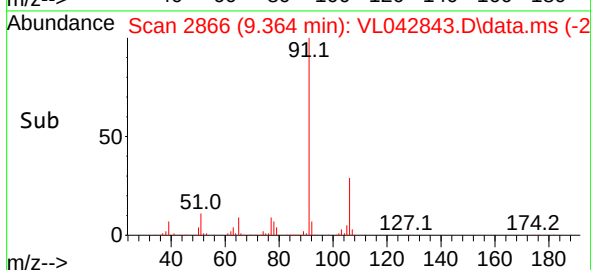
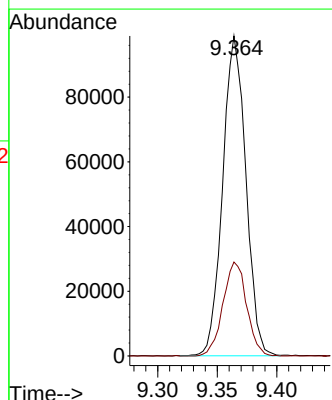
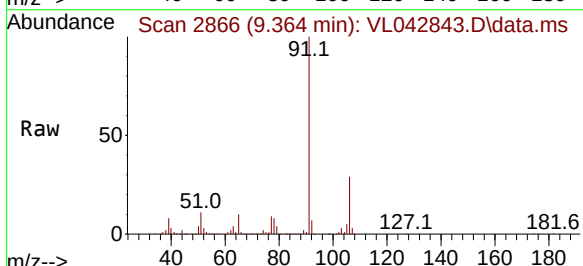
Acq: 13 Aug 2025 09:06

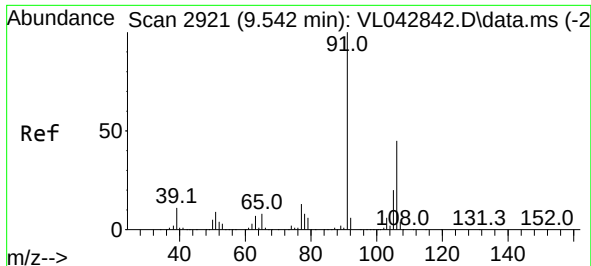
Tgt Ion: 91 Resp: 133719

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 :

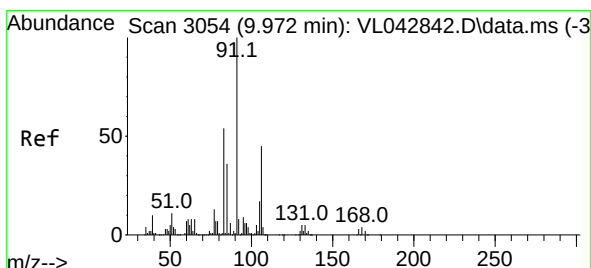
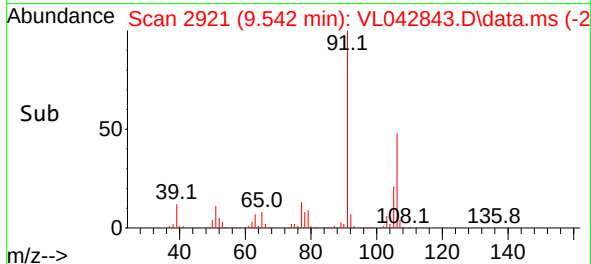
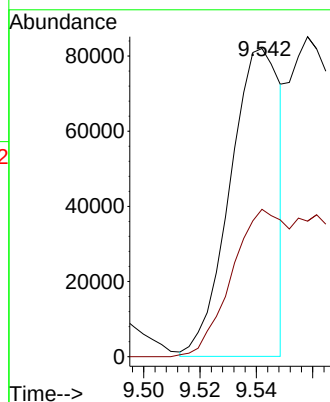
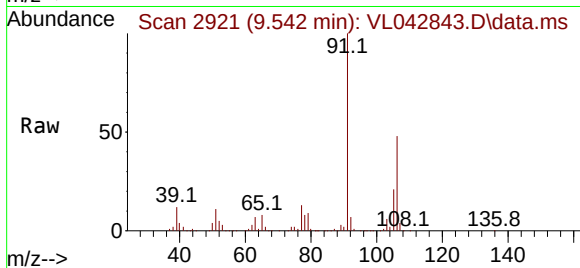
VSTDIC002

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

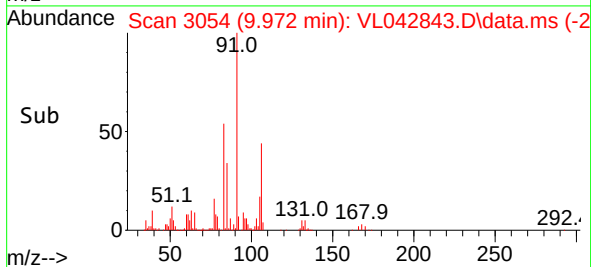
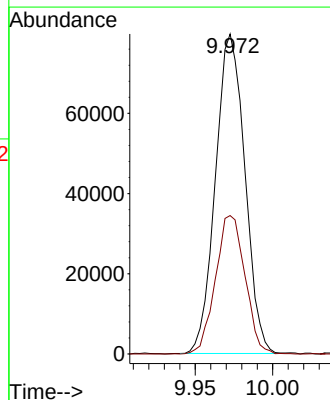
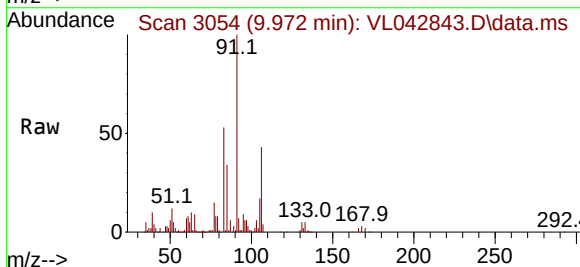
Acq: 13 Aug 2025 09:06

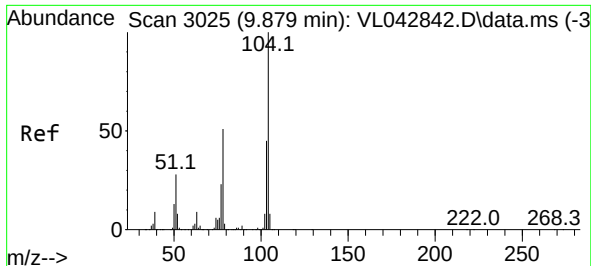
Tgt Ion: 91 Resp: 105125

Ion Ratio Lower Upper

91 100

106 43.5 21.8 65.4

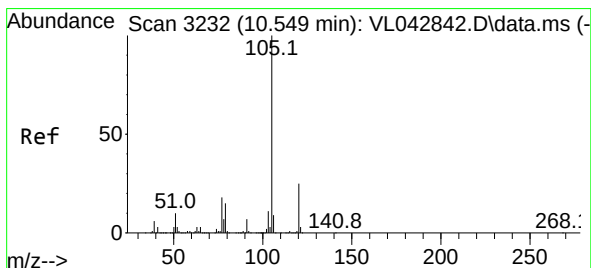
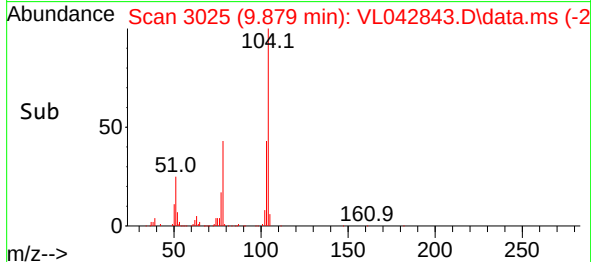
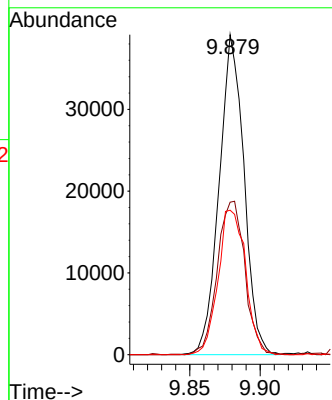
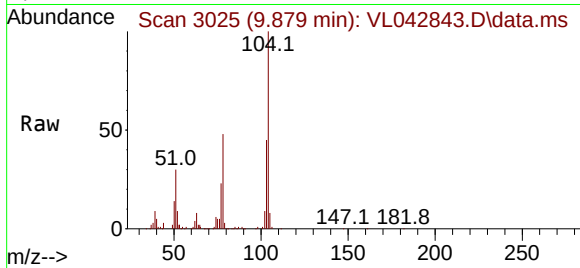




#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

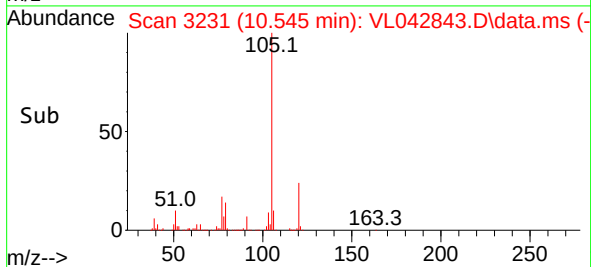
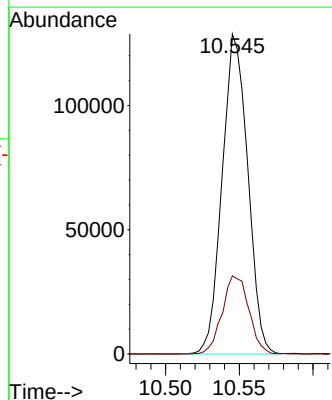
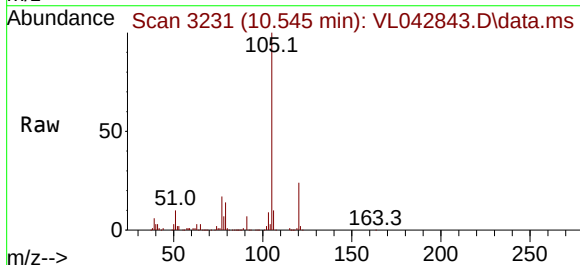
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

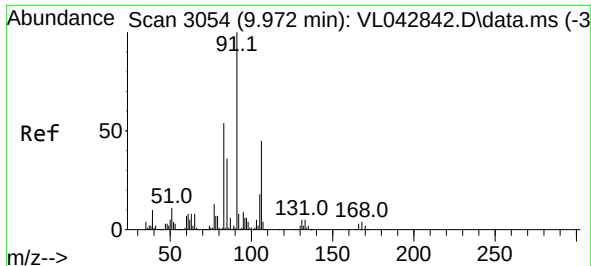
Tgt Ion:104 Resp: 48027
Ion Ratio Lower Upper
104 100
78 53.4 40.6 61.0
103 50.1 37.7 56.5



#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

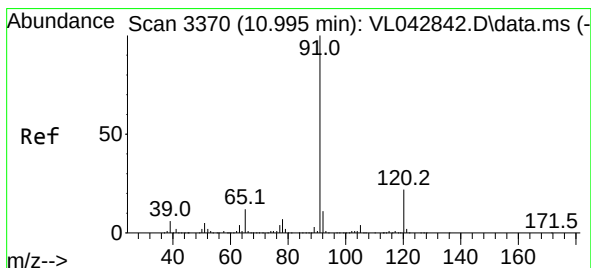
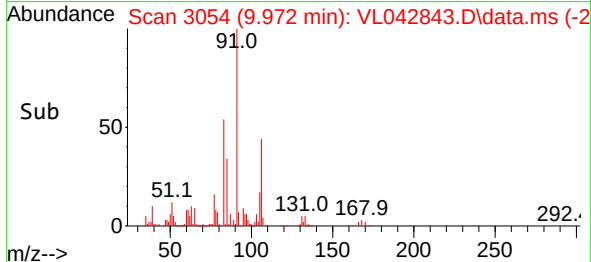
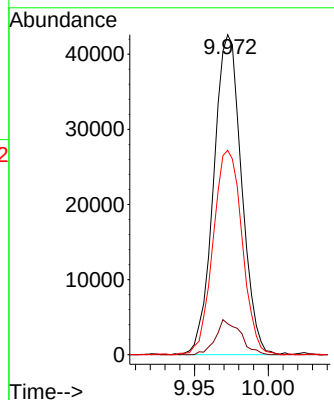
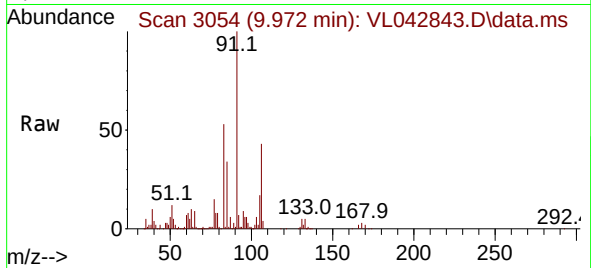




#63
1,1,2,2-Tetrachloroethane
Concen: 2.031 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

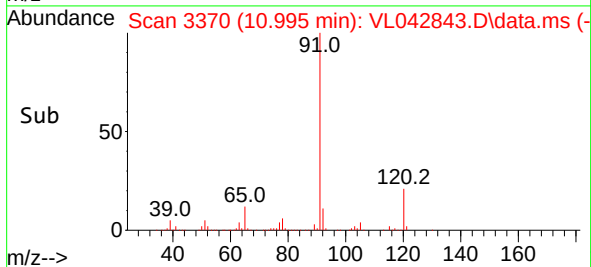
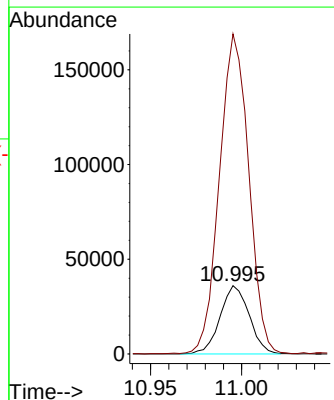
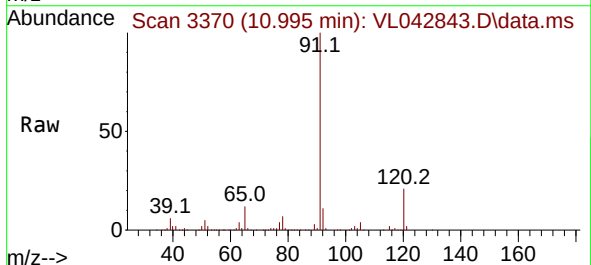
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

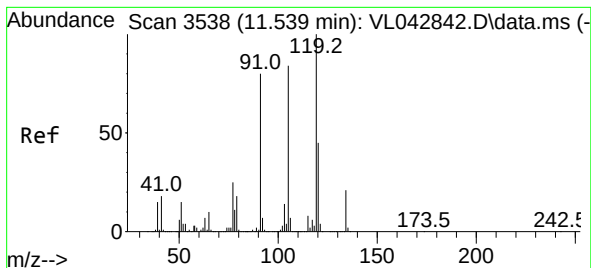
Tgt Ion: 83 Resp: 56139
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 66.5 32.3 96.8



#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

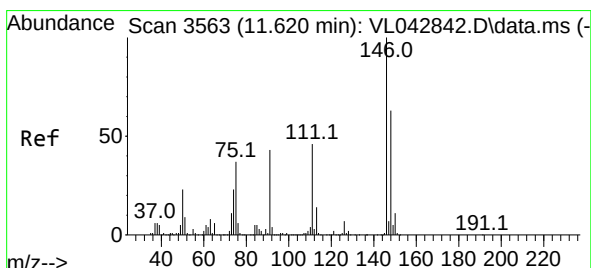
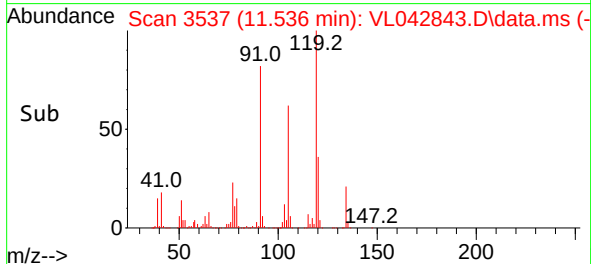
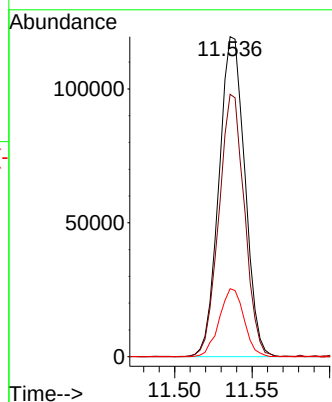
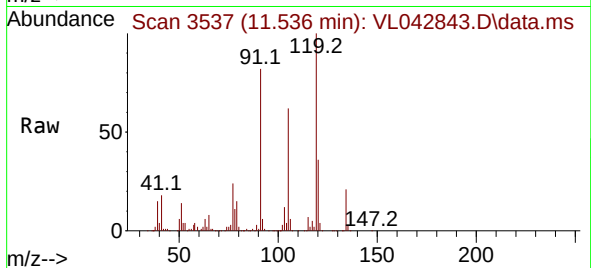




#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

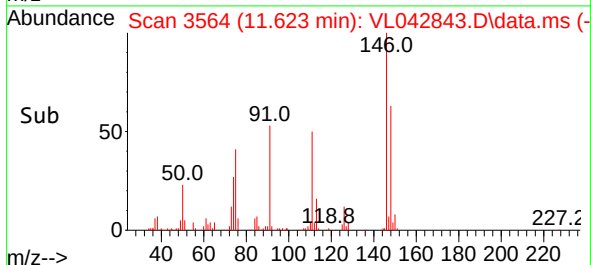
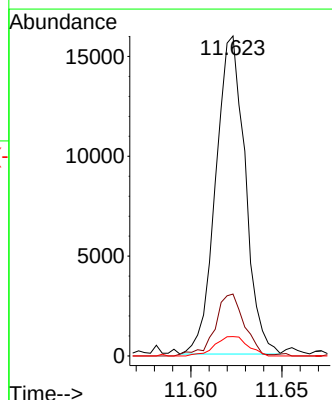
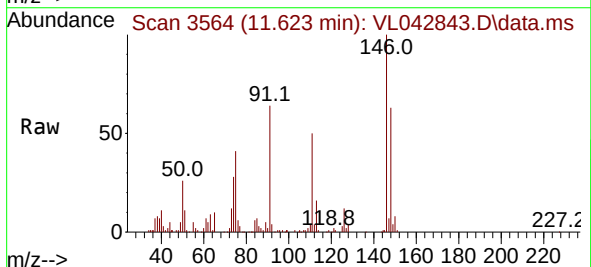
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

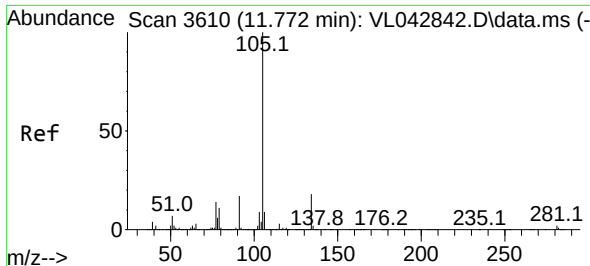
Tgt Ion:119 Resp: 139019
Ion Ratio Lower Upper
119 100
91 80.9 63.9 95.9
134 20.3 17.0 25.4



#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

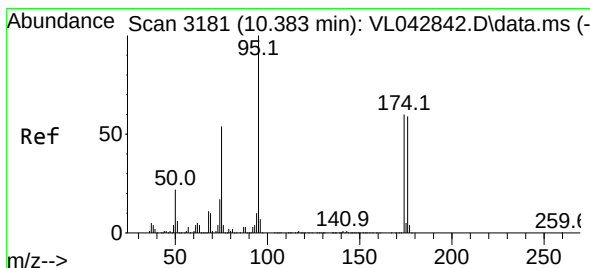
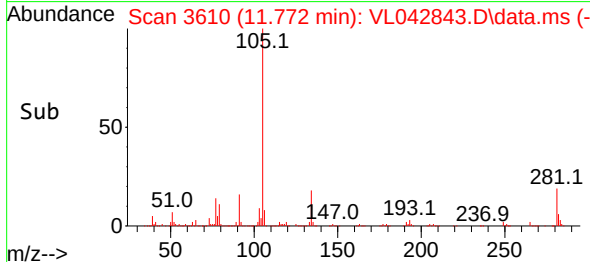
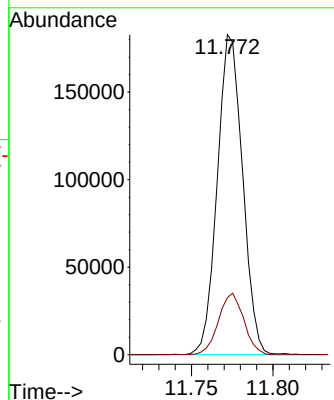
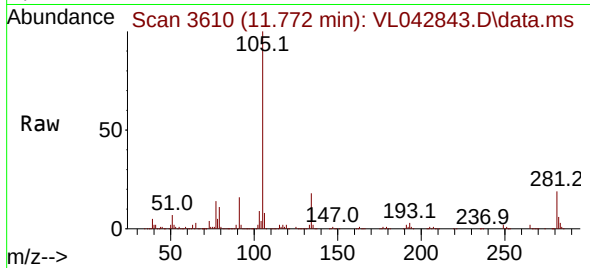




#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

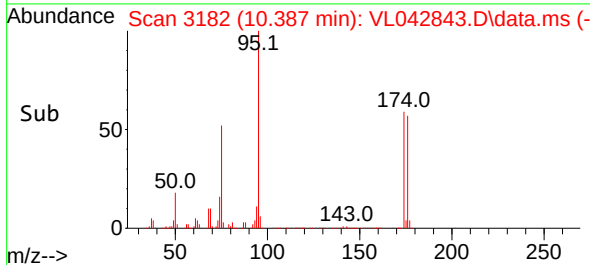
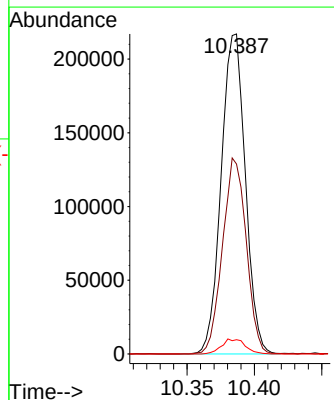
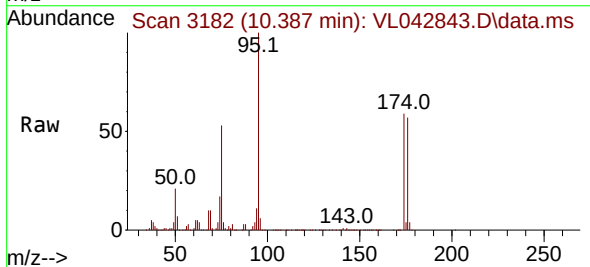
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

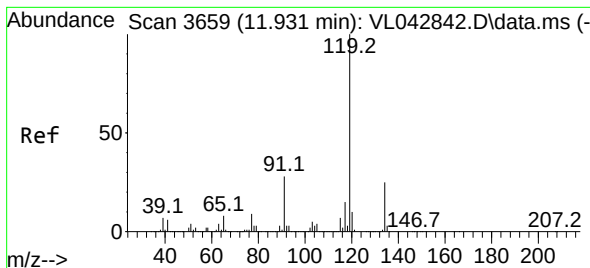
Tgt Ion:105 Resp: 196899
 Ion Ratio Lower Upper
 105 100
 134 19.3 14.9 22.3



#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

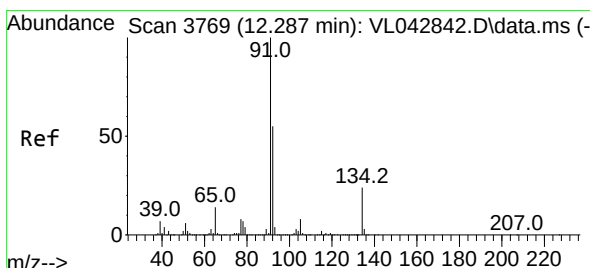
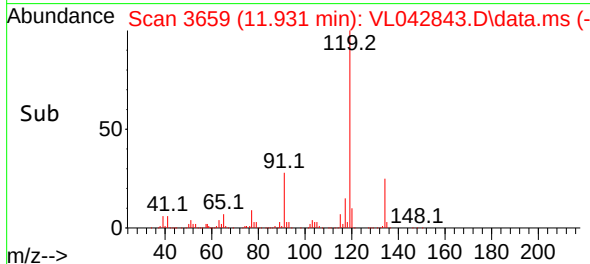
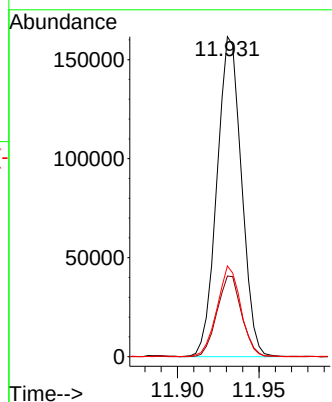
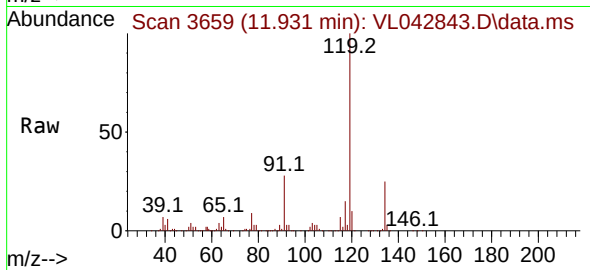




#69
 p-Isopropyltoluene
 Concen: 2.156 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

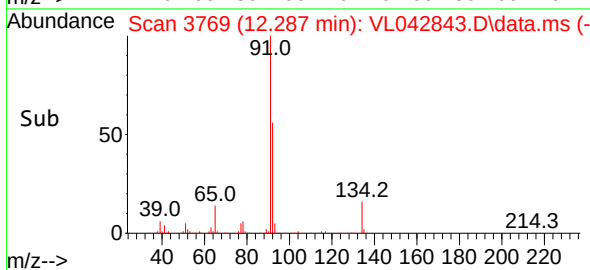
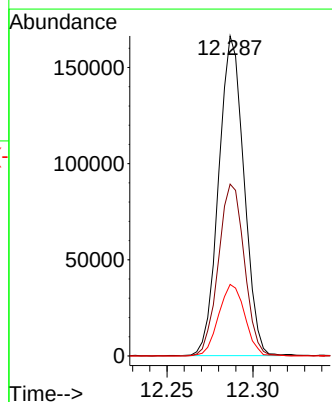
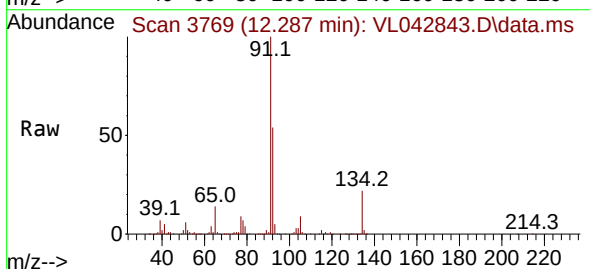
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

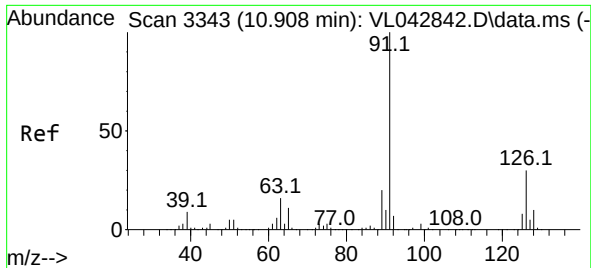
Tgt Ion: 119 Resp: 169429
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 30.8
 91 27.4 22.6 34.0



#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

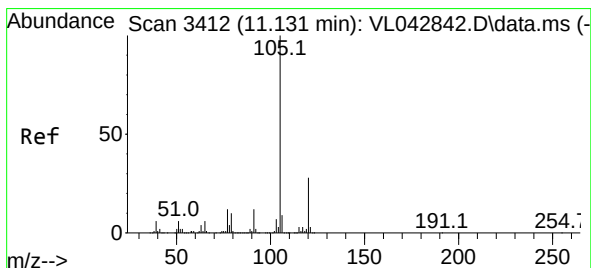
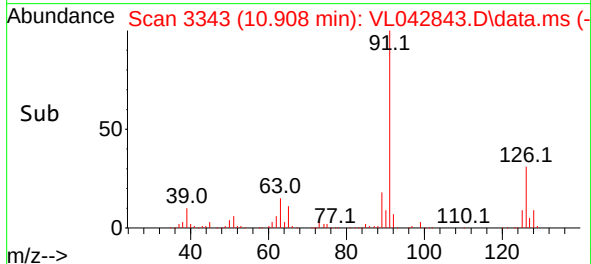
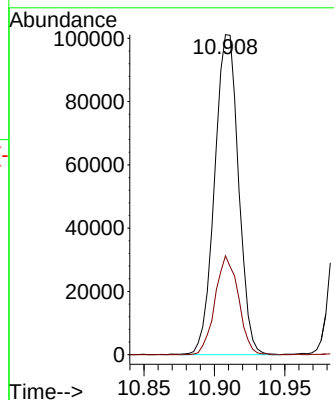
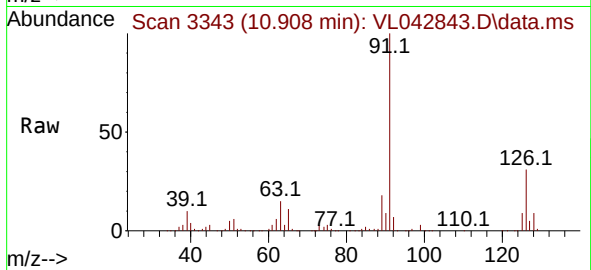




#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

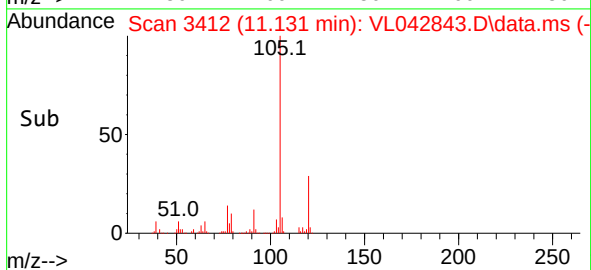
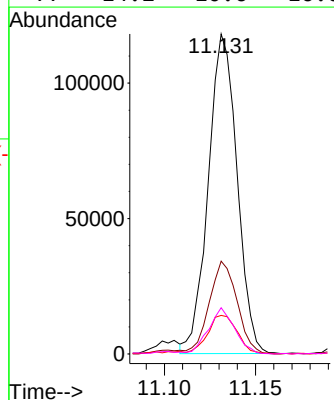
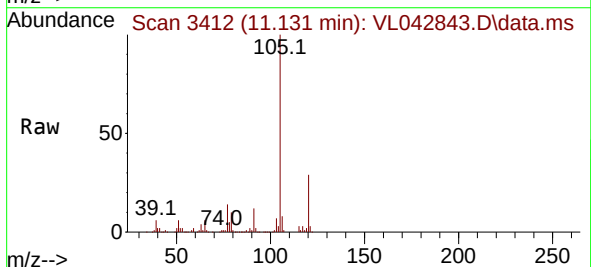
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

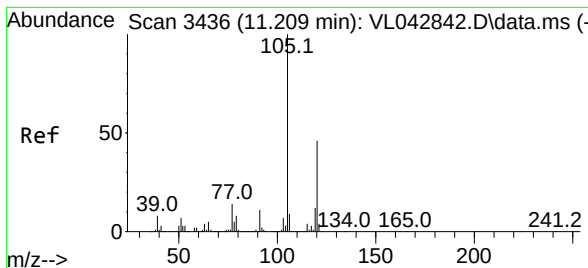
Tgt Ion: 91 Resp: 119382
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8



#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 :

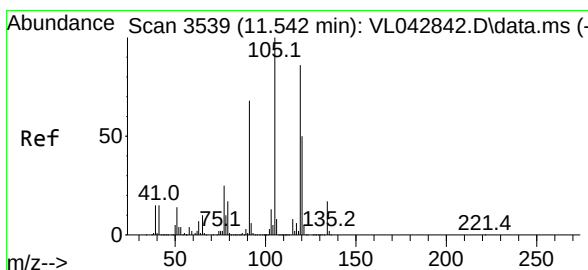
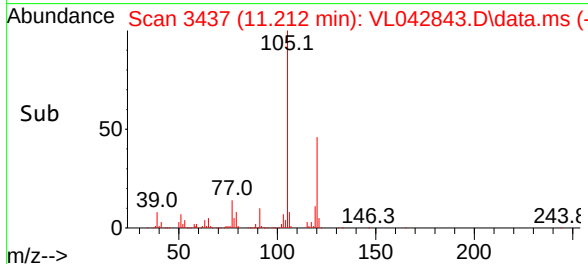
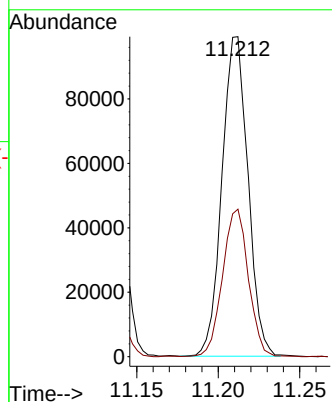
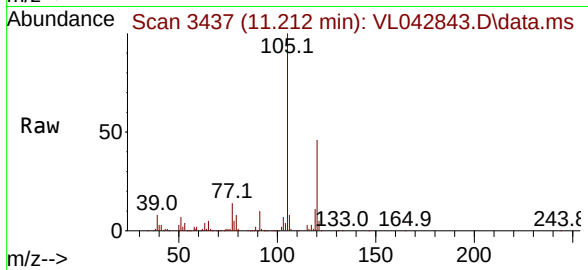
VSTDICC002

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

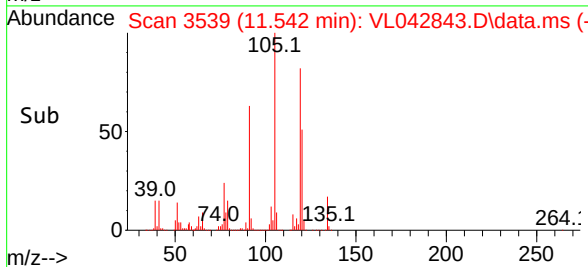
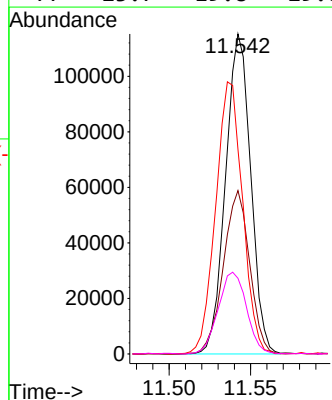
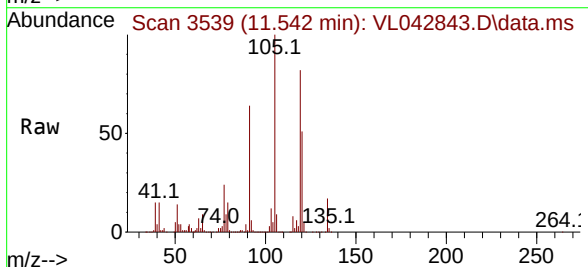
Ion Ratio Lower Upper

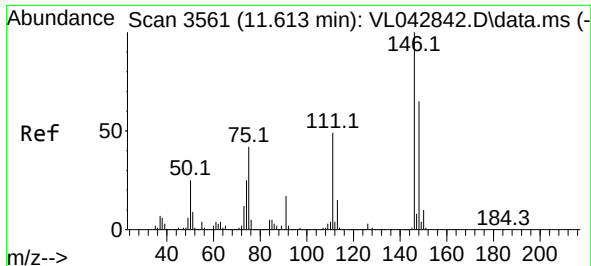
105 100

120 51.0 39.8 59.6

91 63.9 54.2 81.4

77 23.7 19.8 29.6

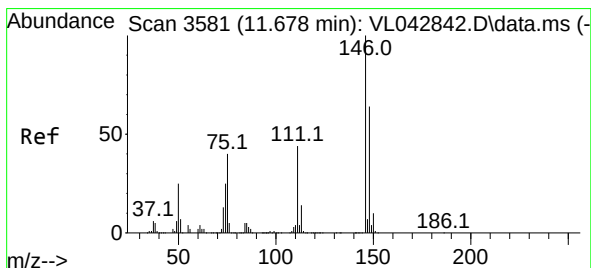
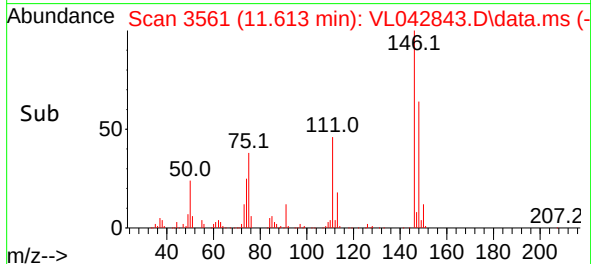
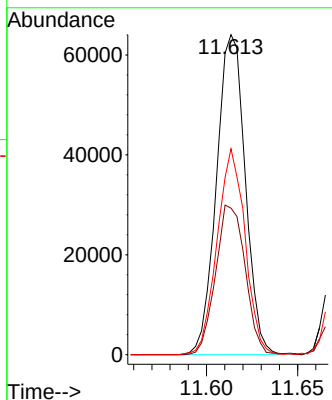
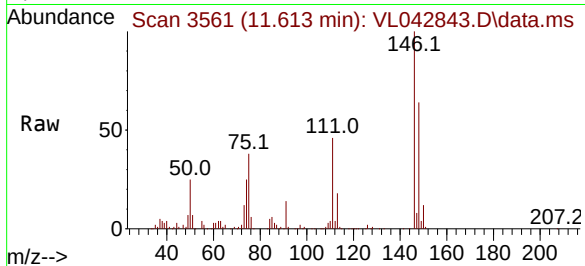




#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

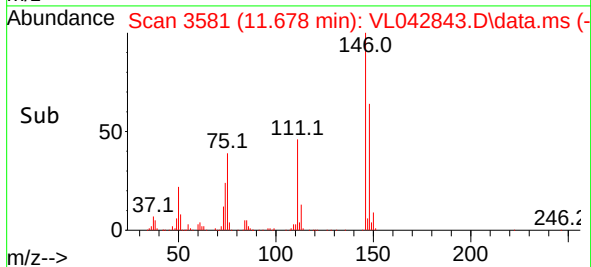
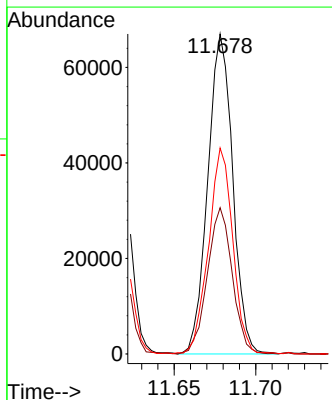
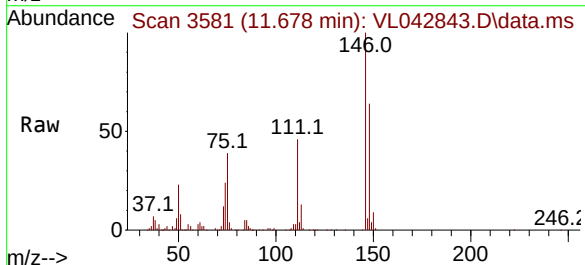
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

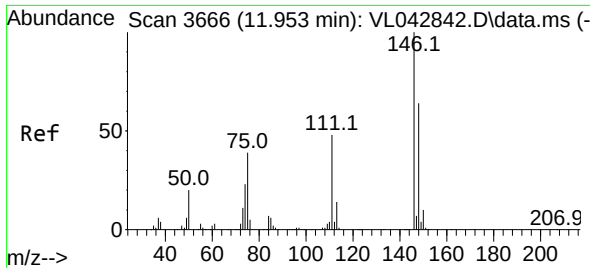
Tgt Ion:146 Resp: 70330
Ion Ratio Lower Upper
146 100
111 48.0 23.9 71.7
148 62.5 31.4 94.0



#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

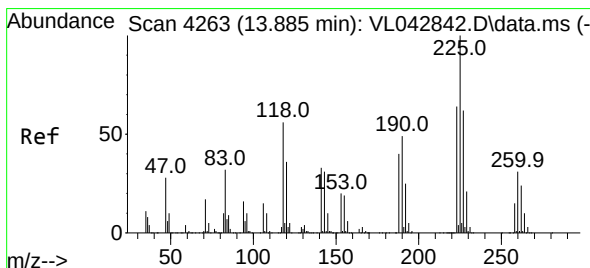
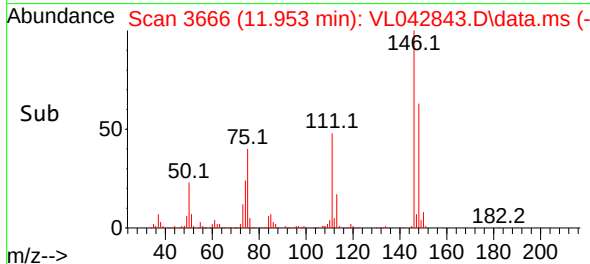
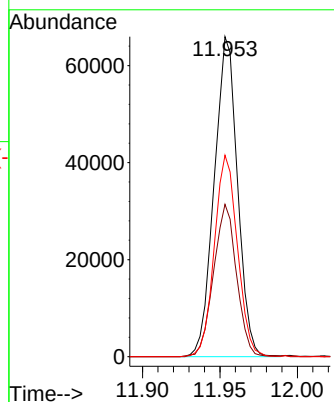
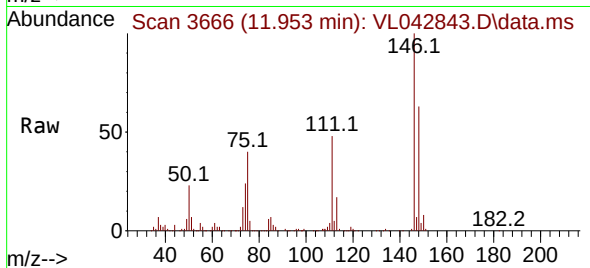




#77
 1,2-Dichlorobenzene
 Concen: 2.162 ppbv
 RT: 11.953 min Scan# 3666
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

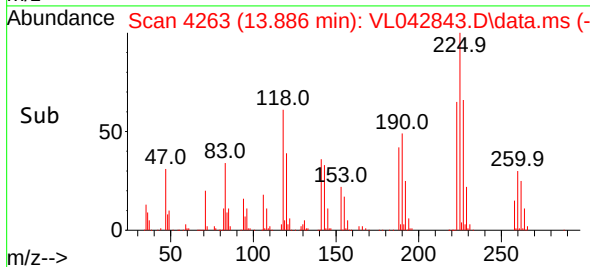
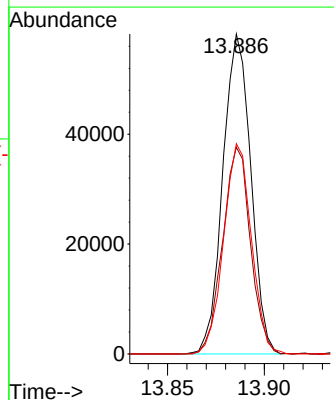
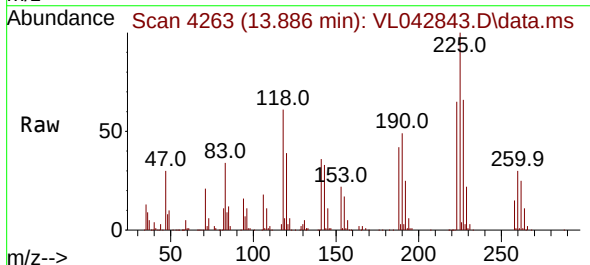
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

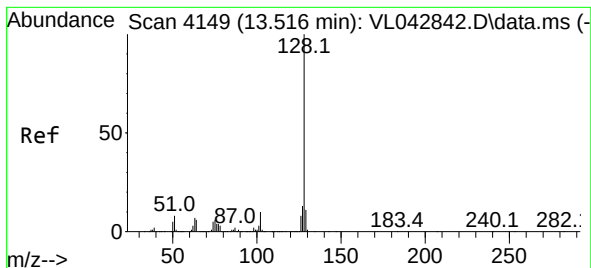
Tgt Ion:146 Resp: 68944
 Ion Ratio Lower Upper
 146 100
 111 47.1 24.6 74.0
 148 62.5 32.0 96.0



#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

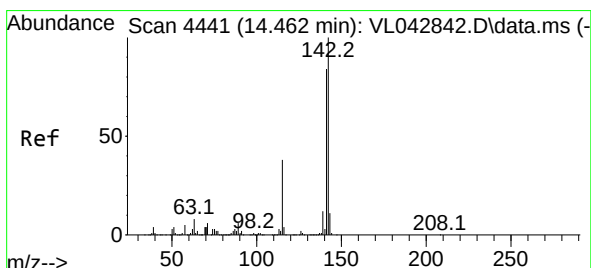
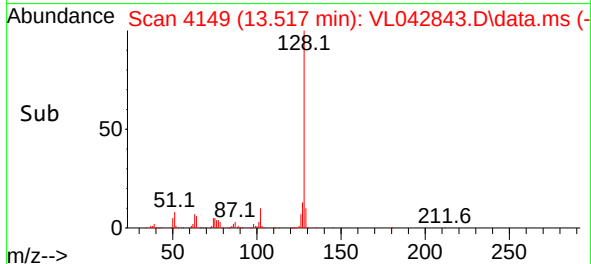
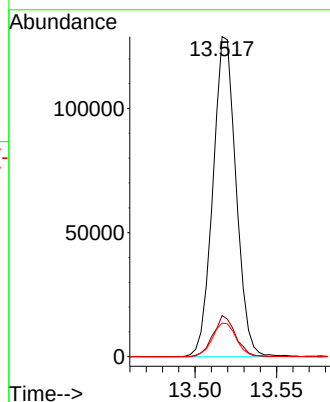
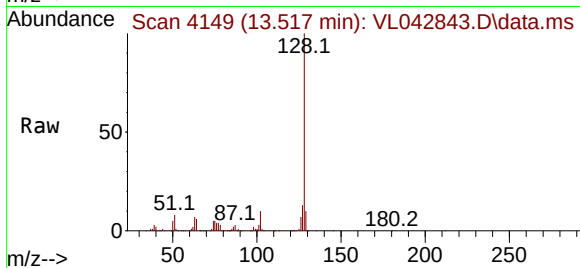
Tgt Ion:128 Resp: 127025

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

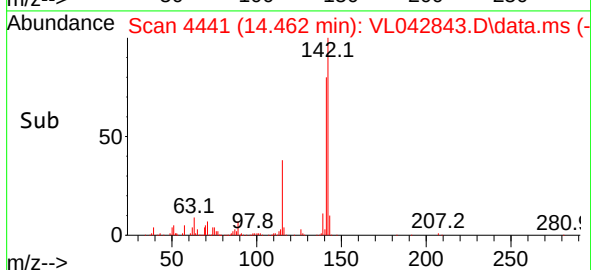
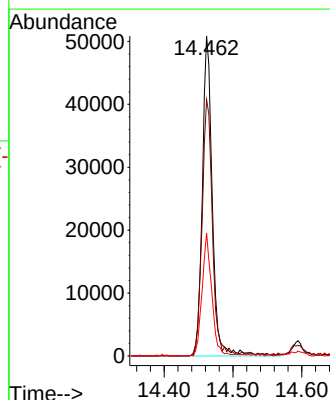
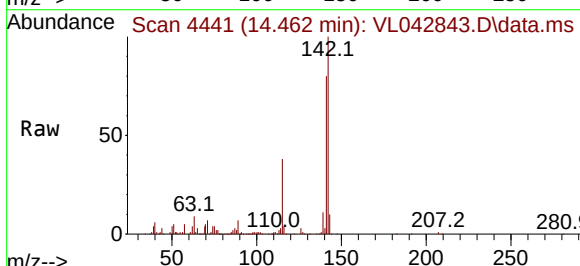
Tgt Ion:142 Resp: 51541

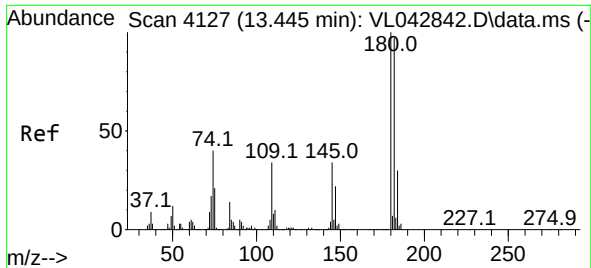
Ion Ratio Lower Upper

142 100

141 83.9 67.0 100.6

115 37.8 30.9 46.3

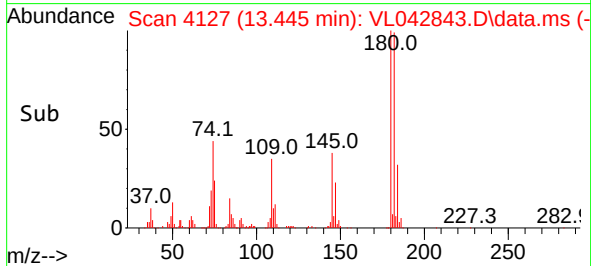
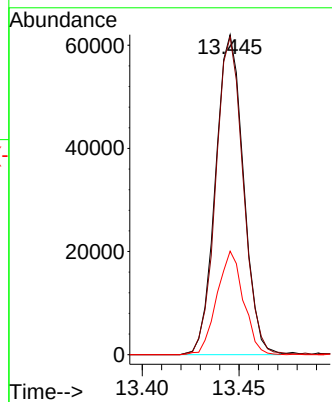
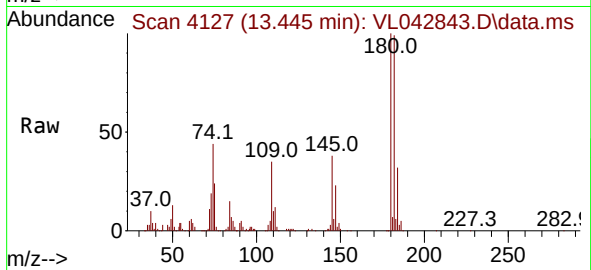




#81
 1,2,4-Trichlorobenzene
 Concen: 2.384 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

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

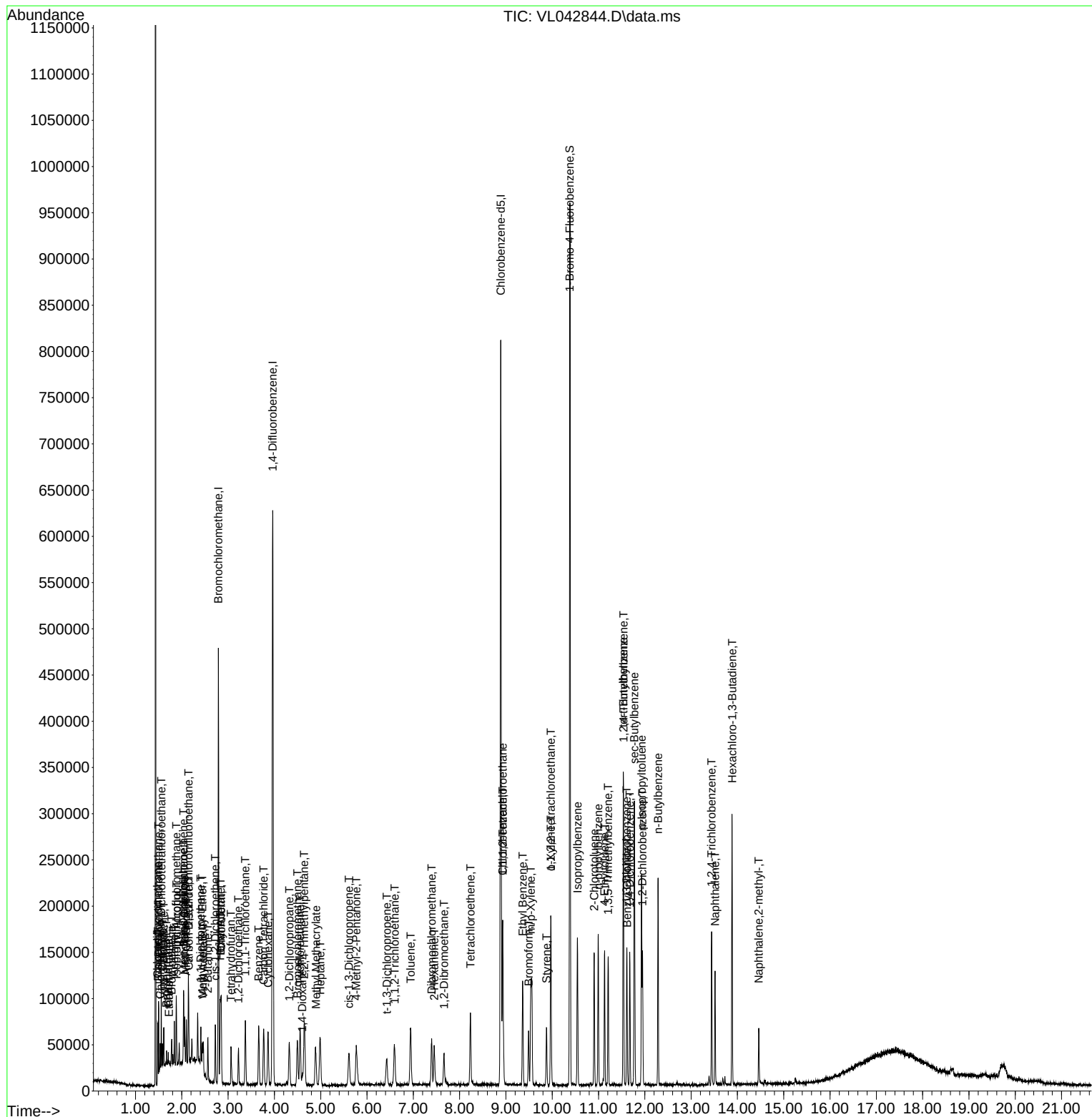
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

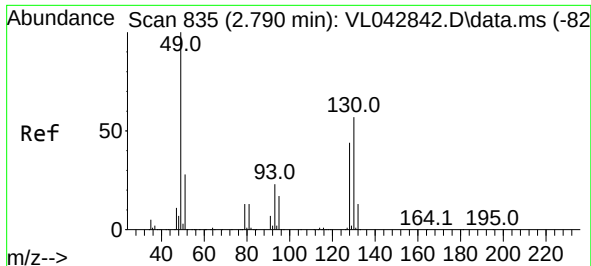
Quant Time: Aug 14 01:47:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	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

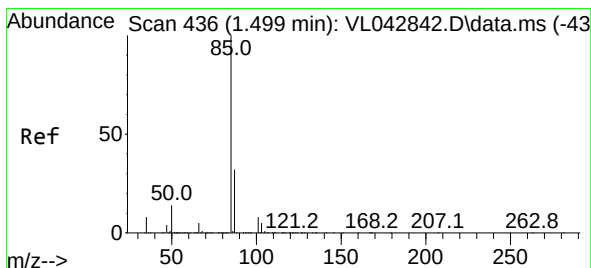
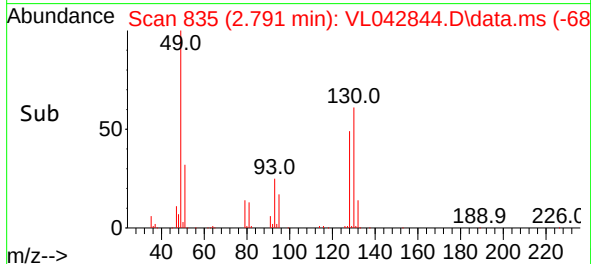
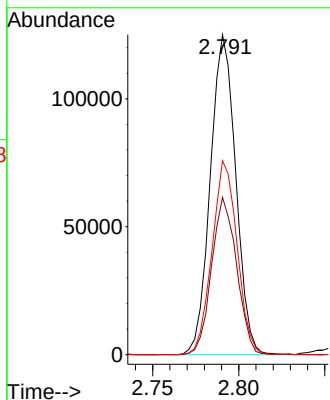
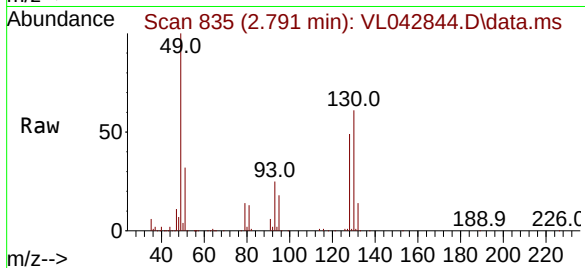




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.791 min Scan# 835
 Delta R.T. 0.001 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

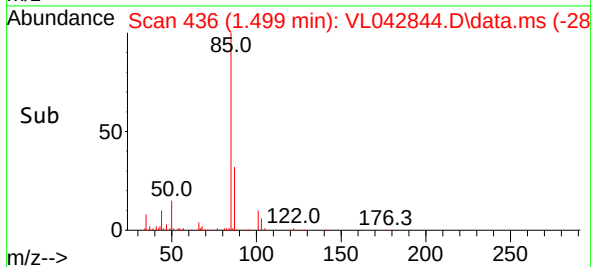
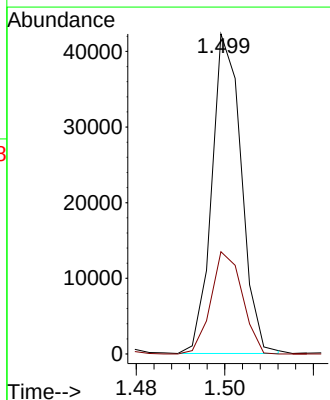
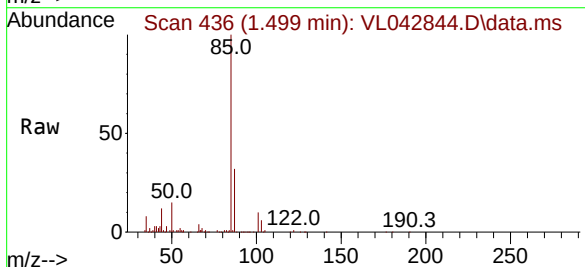
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

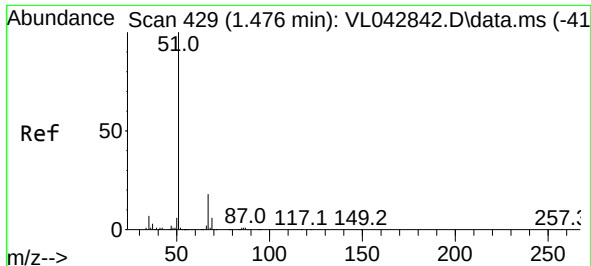
Tgt Ion: 49 Resp: 128542
 Ion Ratio Lower Upper
 49 100
 128 48.4 23.7 71.1
 130 59.9 30.6 91.6



#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

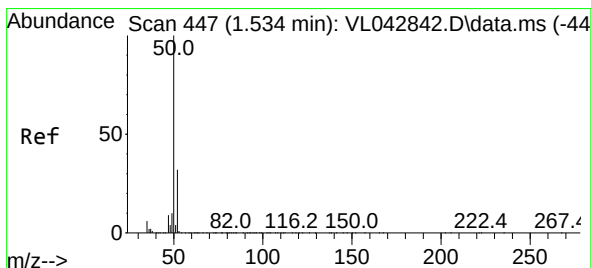
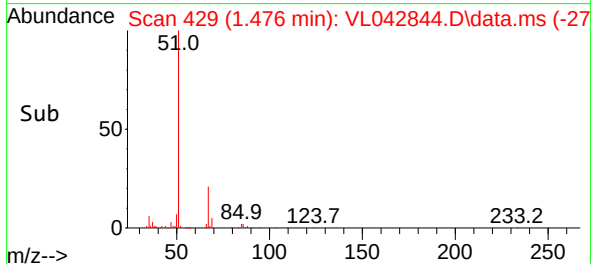
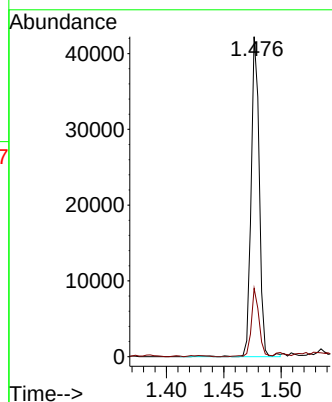
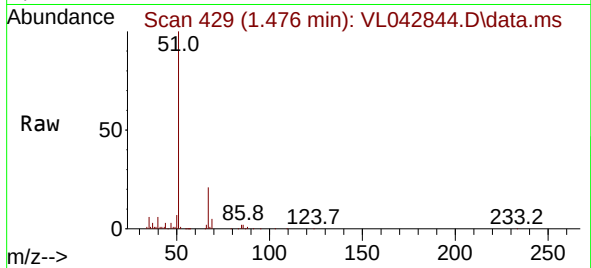




#3
Chlorodifluoromethane
Concen: 0.999 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

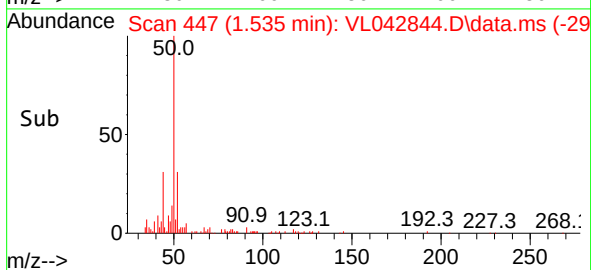
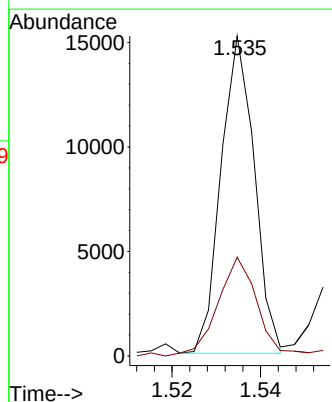
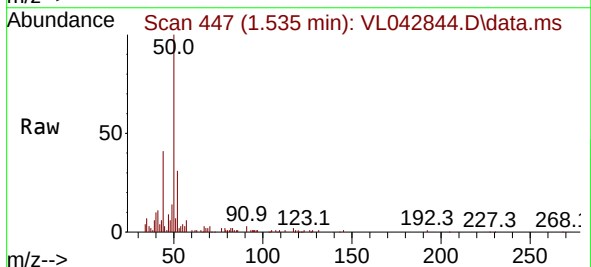
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

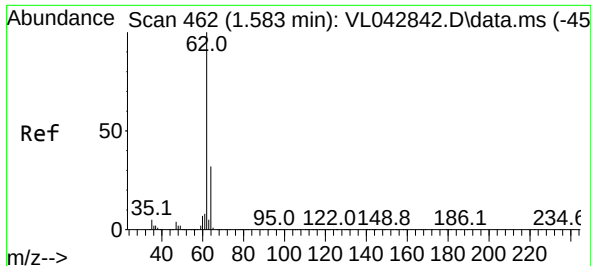
Tgt Ion: 51 Resp: 20833
Ion Ratio Lower Upper
51 100
67 21.9 14.9 22.3



#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

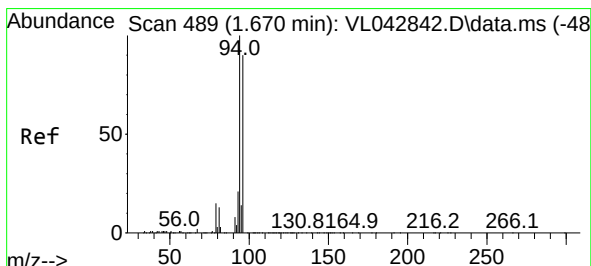
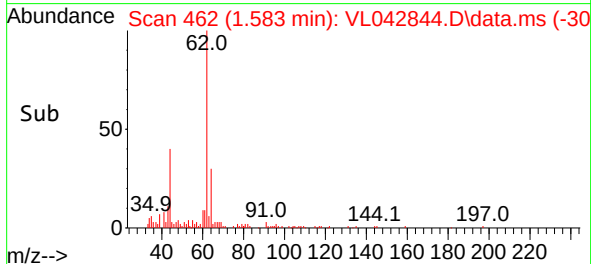
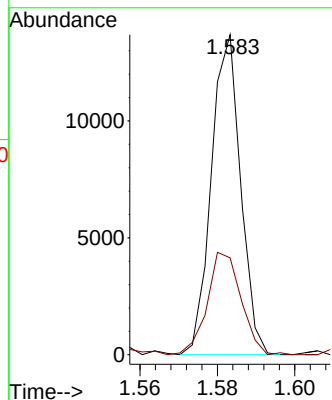
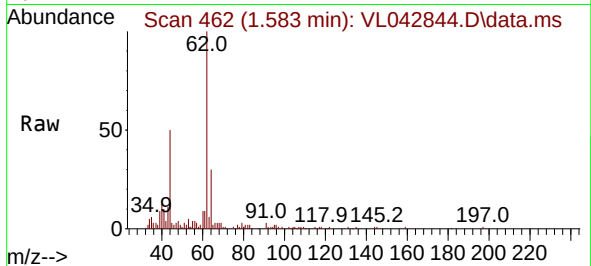




#5
 Vinyl Chloride
 Concen: 0.960 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

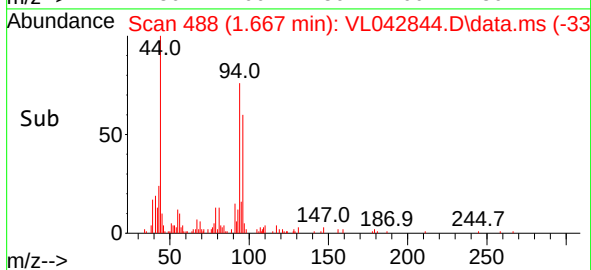
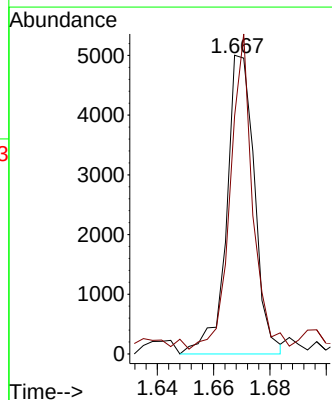
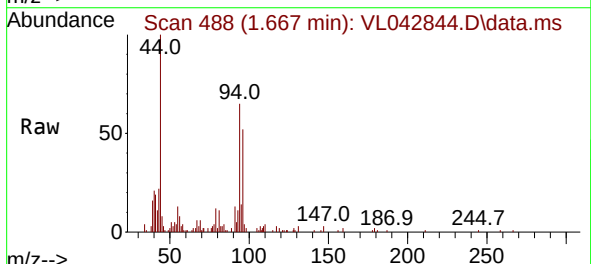
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

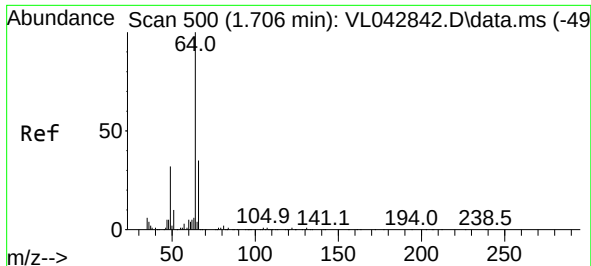
Tgt Ion: 62 Resp: 7189
 Ion Ratio Lower Upper
 62 100
 64 29.7 25.4 38.2



#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

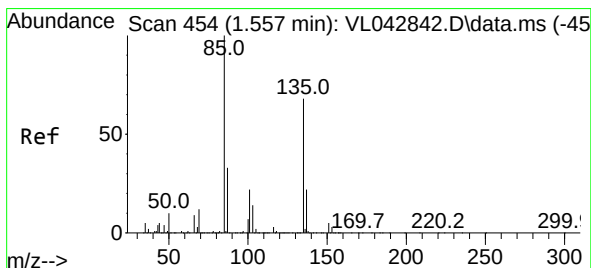
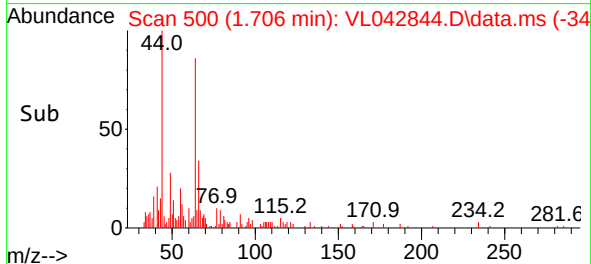
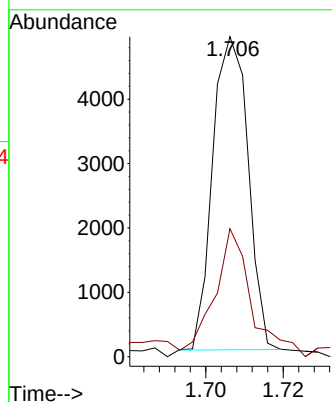
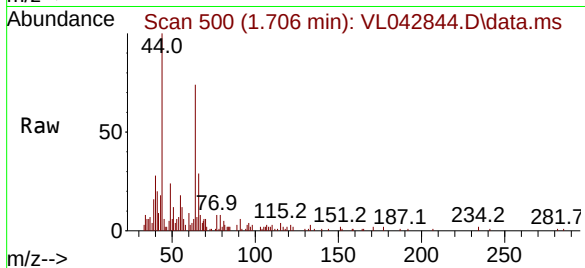




#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

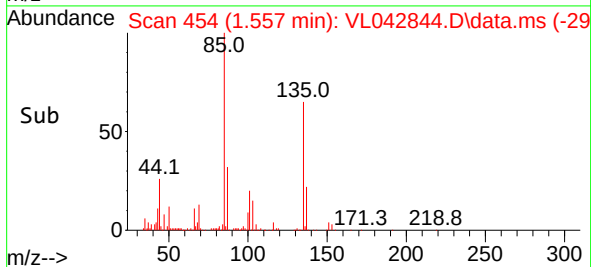
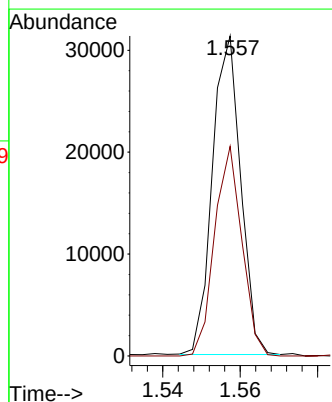
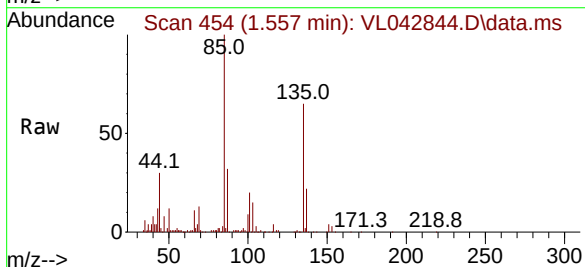
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

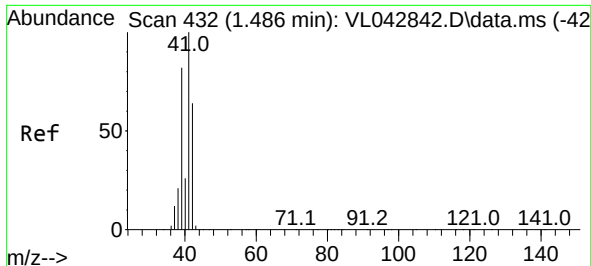
Tgt Ion: 64 Resp: 3089
Ion Ratio Lower Upper
64 100
66 40.0 28.6 42.8



#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 :

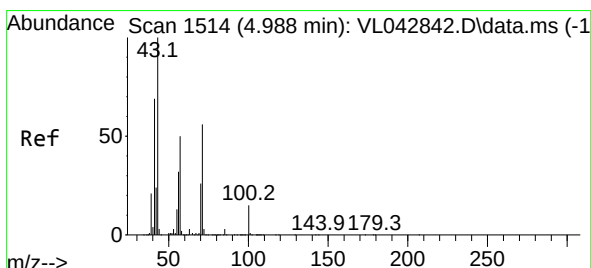
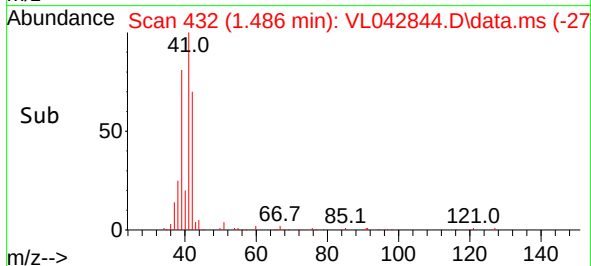
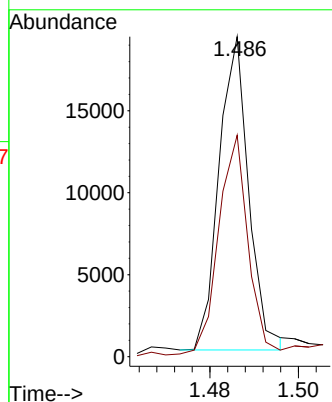
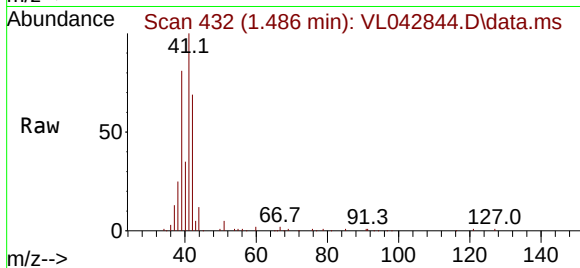
VSTDIC001

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

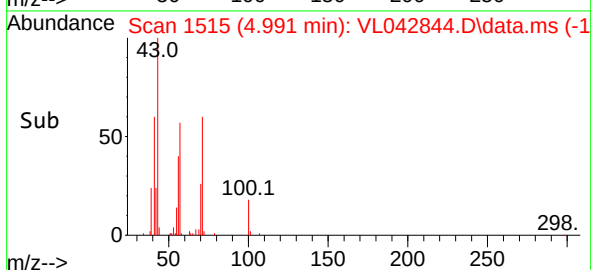
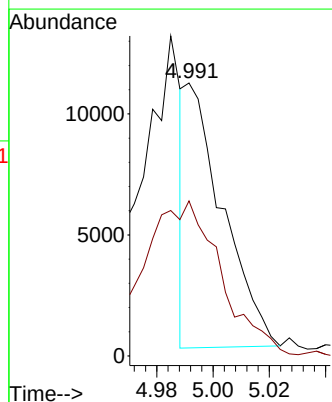
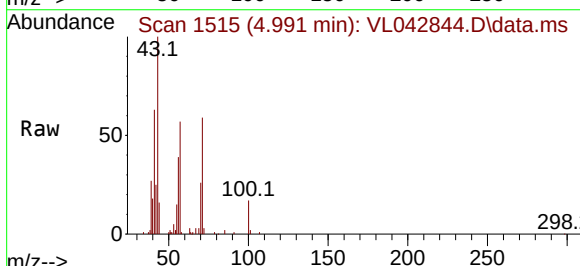
Acq: 13 Aug 2025 09:41

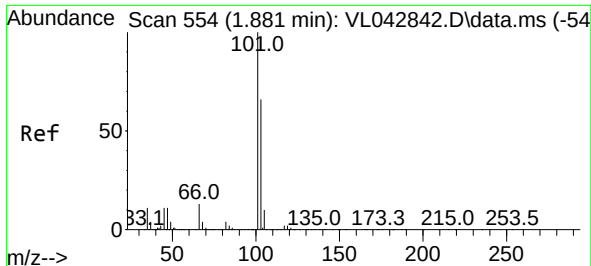
Tgt Ion: 43 Resp: 10068

Ion Ratio Lower Upper

43 100

57 133.5 41.4 62.0#

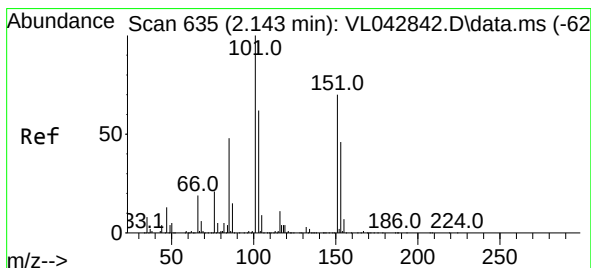
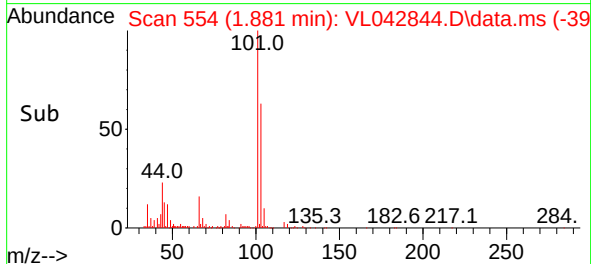
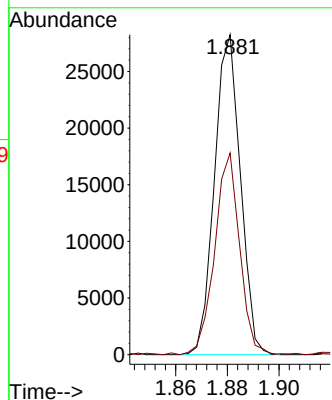
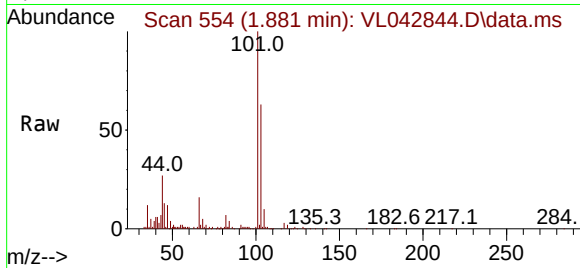




#11
 Trichlorofluoromethane
 Concen: 1.060 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

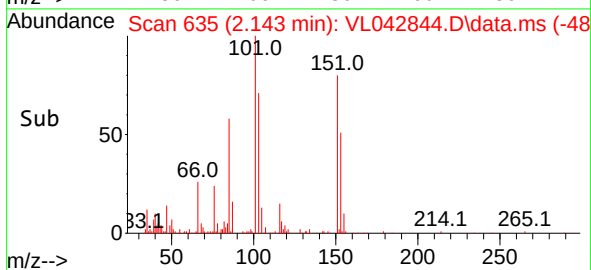
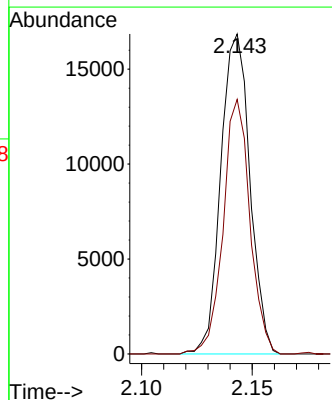
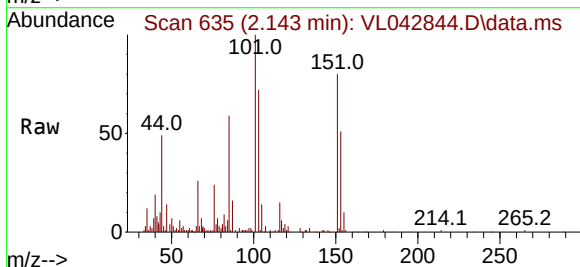
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

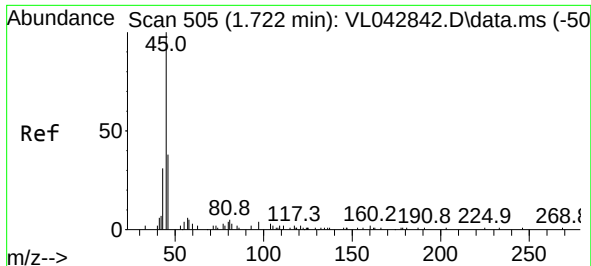
Tgt Ion:101 Resp: 19701
 Ion Ratio Lower Upper
 101 100
 103 62.8 52.5 78.7



#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

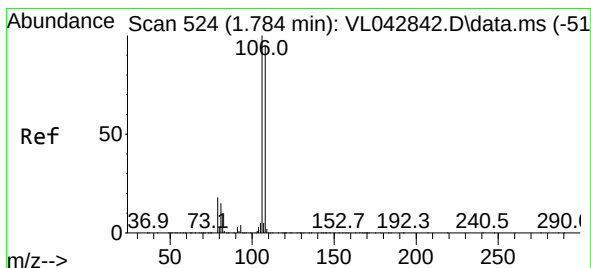
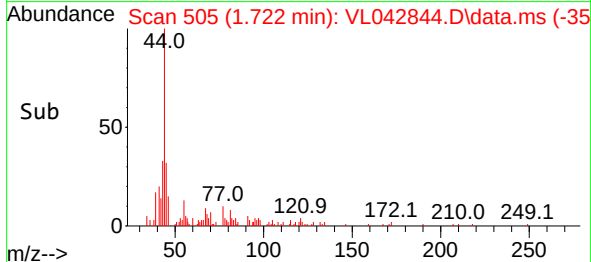
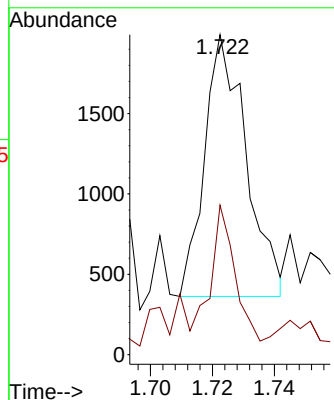
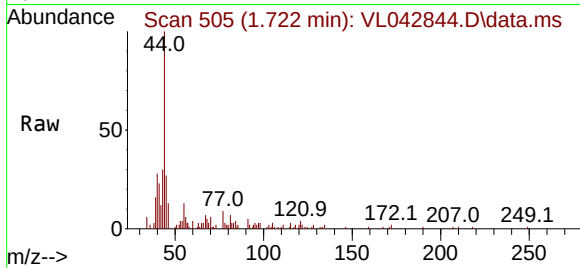




#13
Ethanol
Concen: 1.705 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

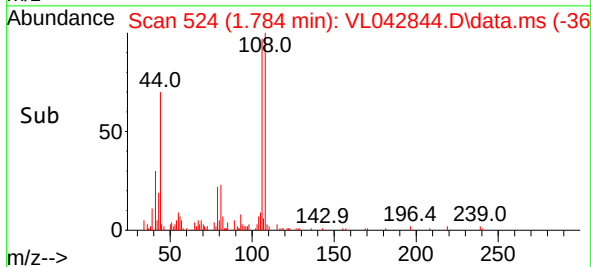
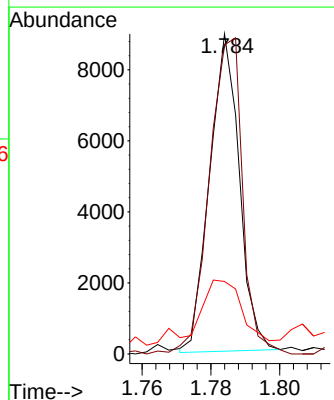
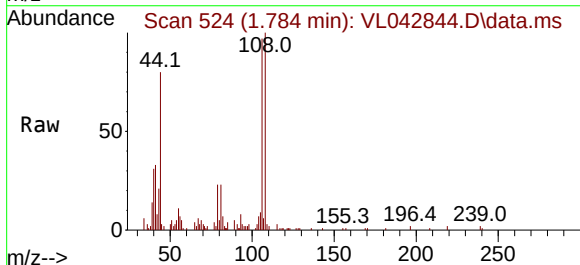
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

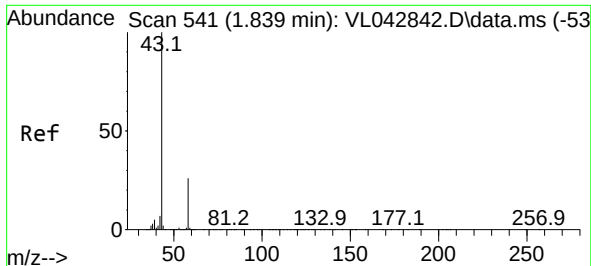
Tgt Ion: 45 Resp: 1519
Ion Ratio Lower Upper
45 100
46 53.5 17.5 69.9



#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

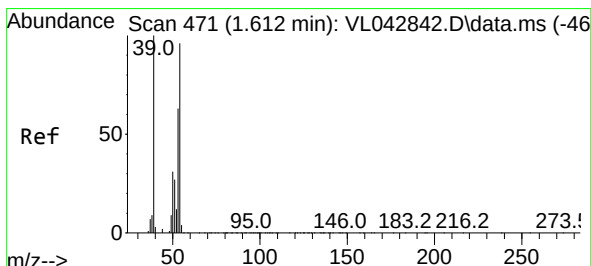
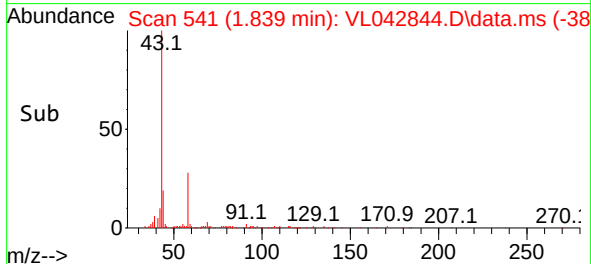
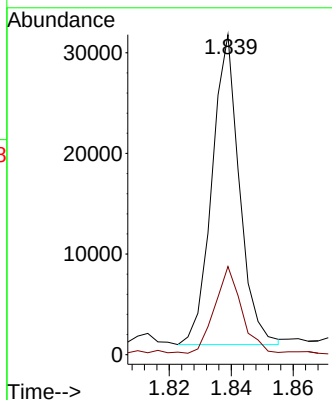
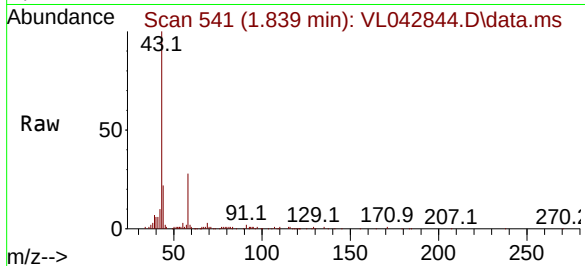




#15
Acetone
Concen: 1.115 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

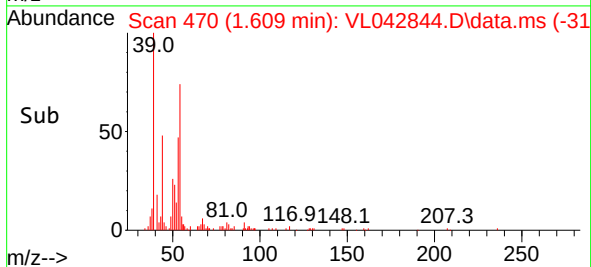
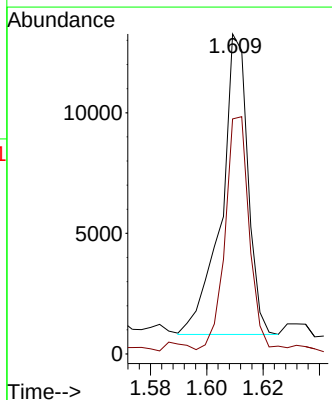
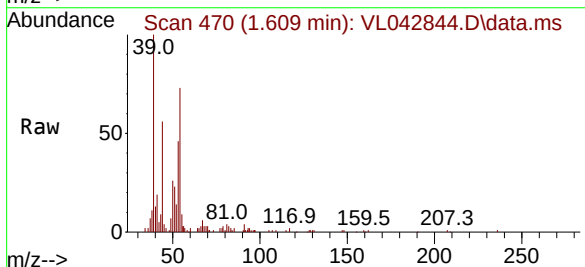
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

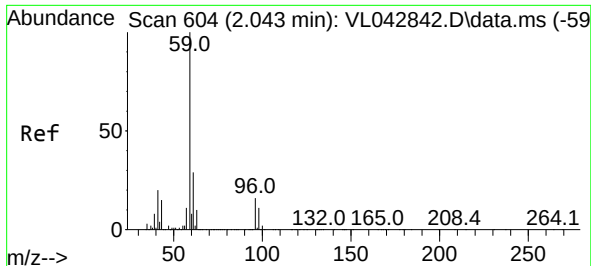
Tgt Ion: 43 Resp: 18961
Ion Ratio Lower Upper
43 100
58 29.1 22.4 33.6



#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 :

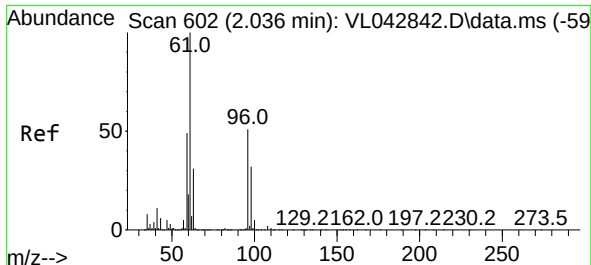
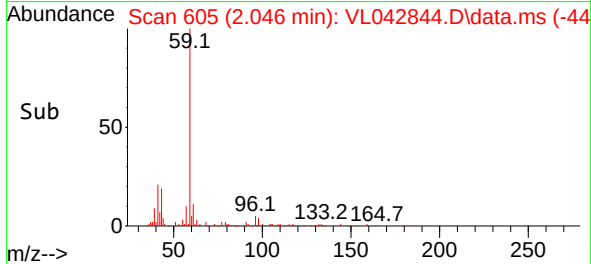
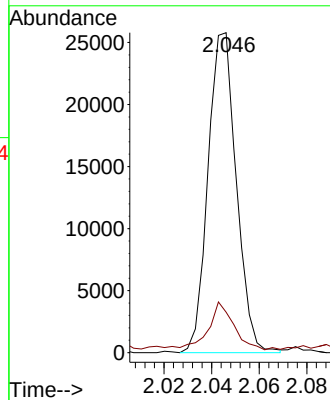
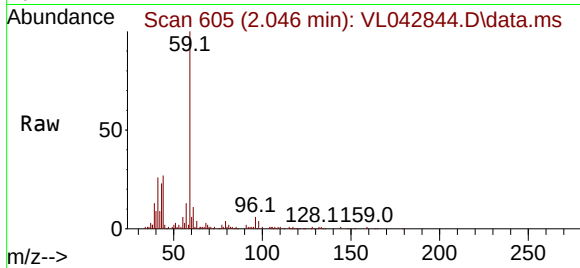
VSTDIC001

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

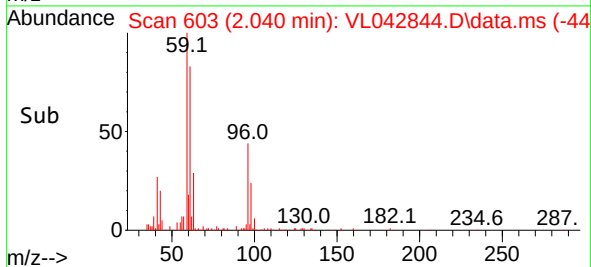
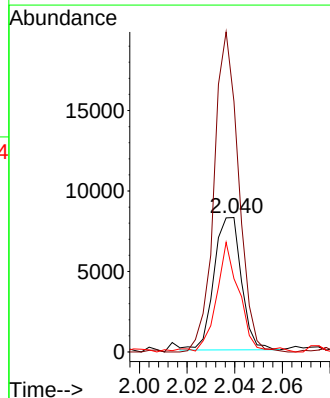
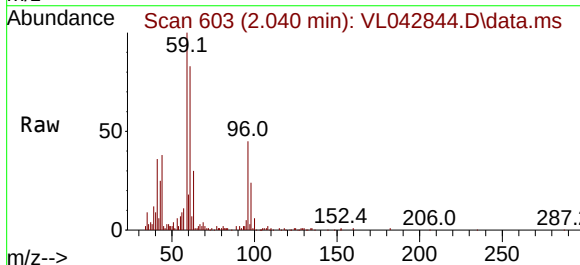
Tgt Ion: 96 Resp: 6549

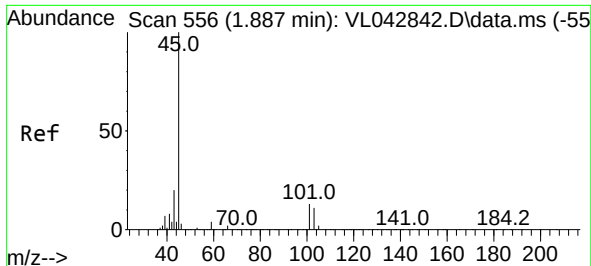
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0

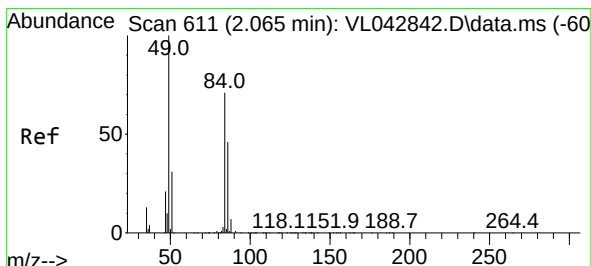
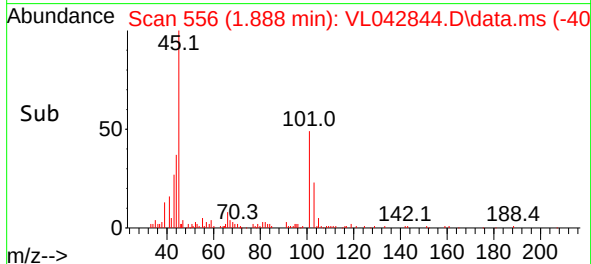
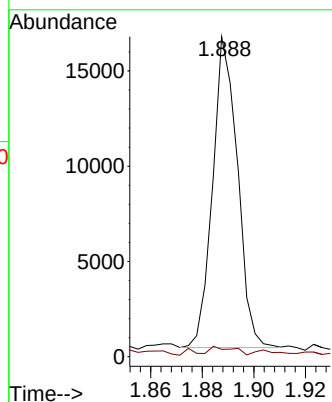
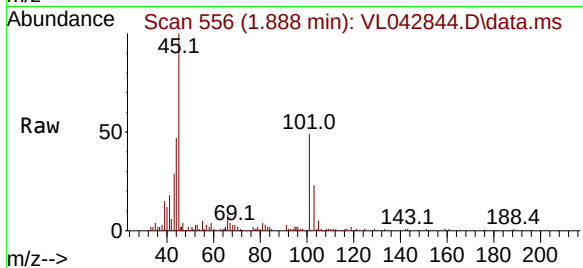




#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

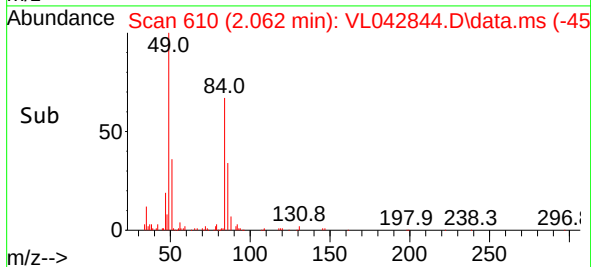
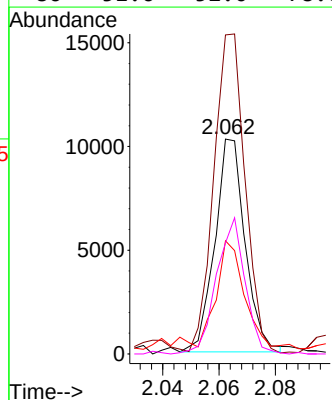
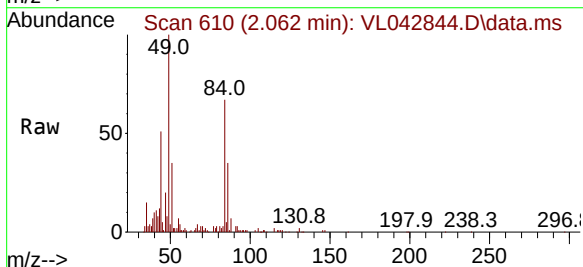
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

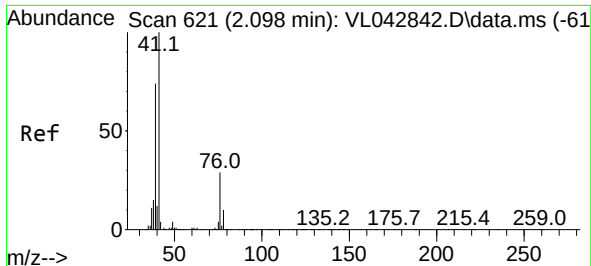
Tgt Ion: 45 Resp: 10893
Ion Ratio Lower Upper
45 100
58 2.9 32.7 49.1#



#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#

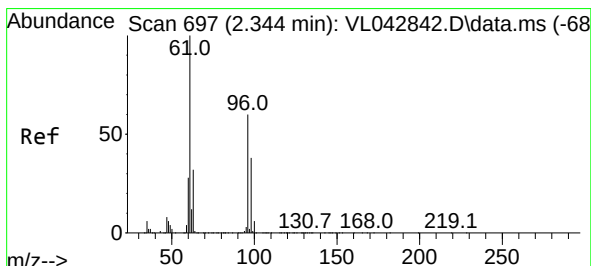
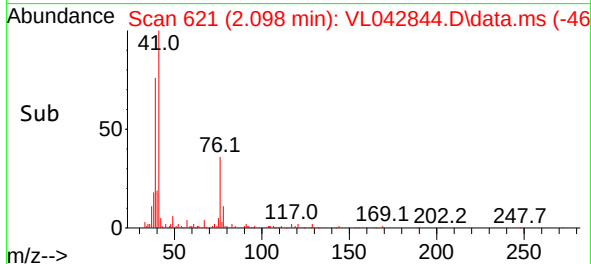
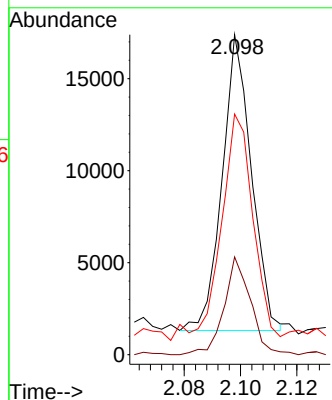
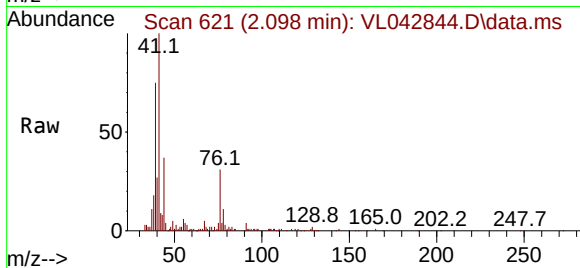




#21
 Allyl Chloride
 Concen: 0.966 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

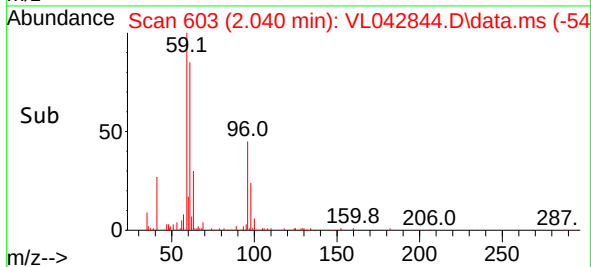
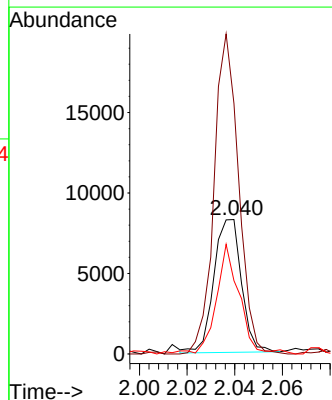
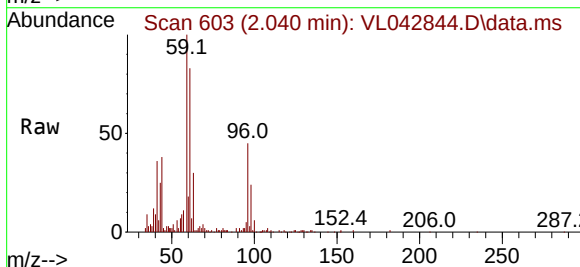
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

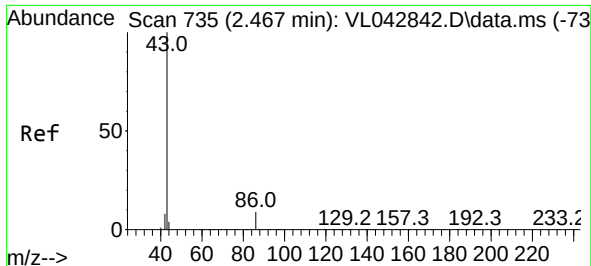
Tgt Ion: 41	Resp: 11598
Ion Ratio	Lower Upper
41	100
76	30.9 23.9 35.9
39	86.2 57.8 86.6



#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

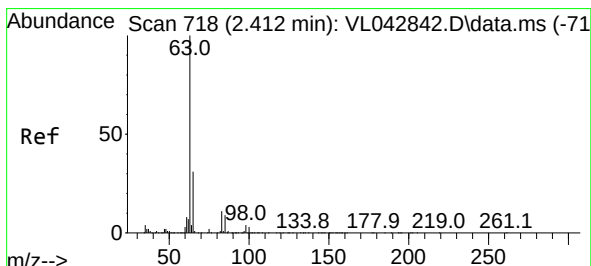
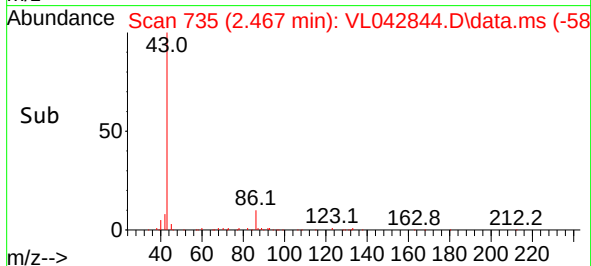
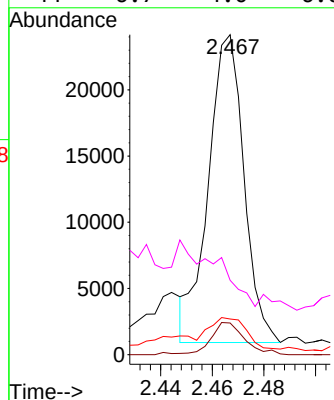
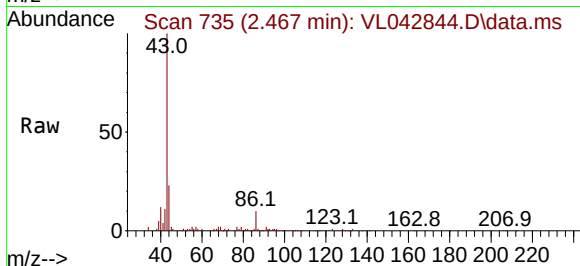




#23
 Vinyl Acetate
 Concen: 0.996 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

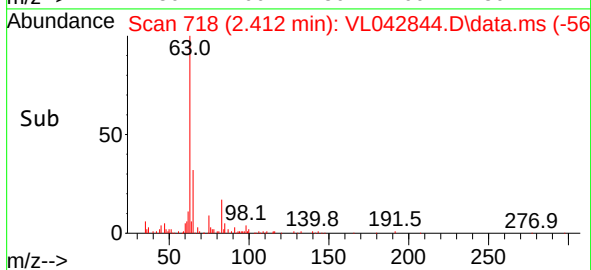
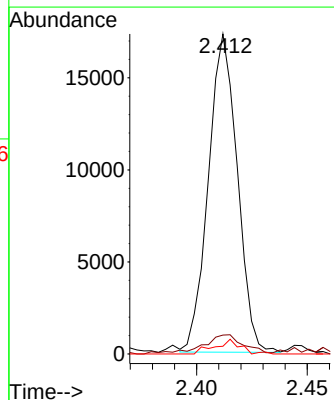
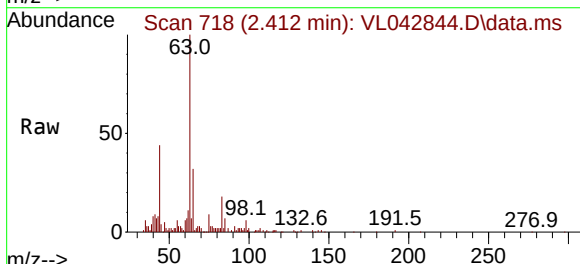
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

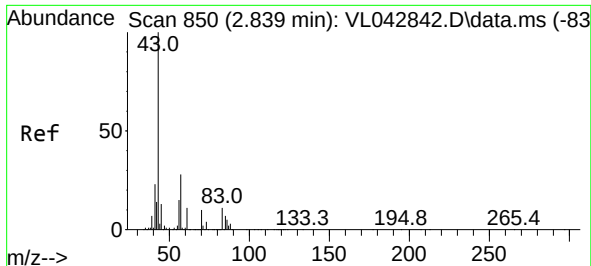
Tgt Ion:	43	Resp:	22270
Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.6	9.8#
42	9.8	7.0	10.6
44	6.7	4.0	6.0#



#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

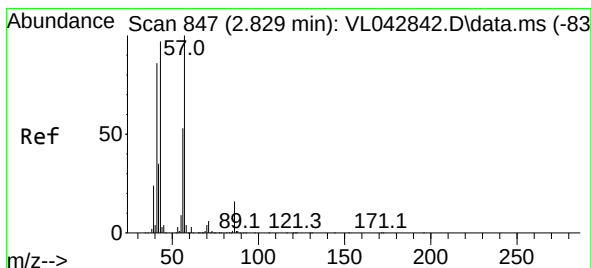
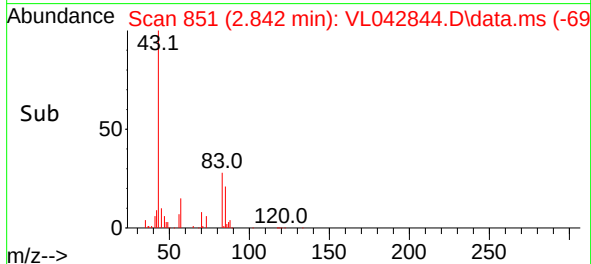
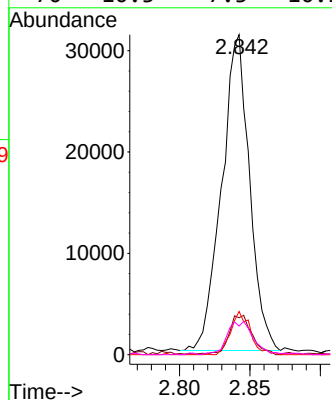
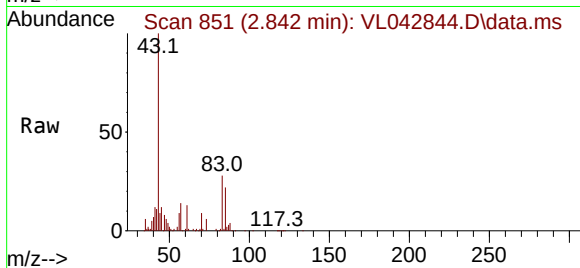




#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

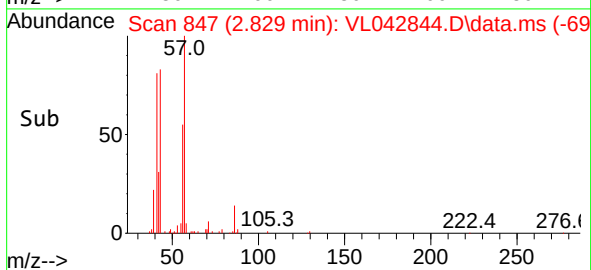
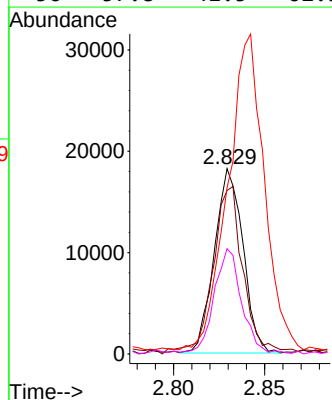
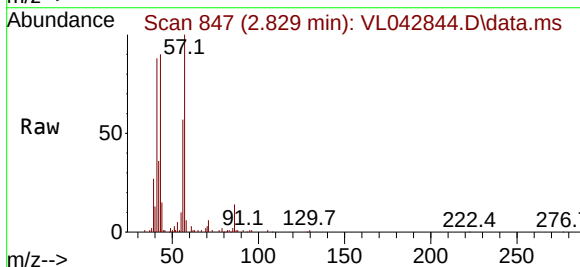
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

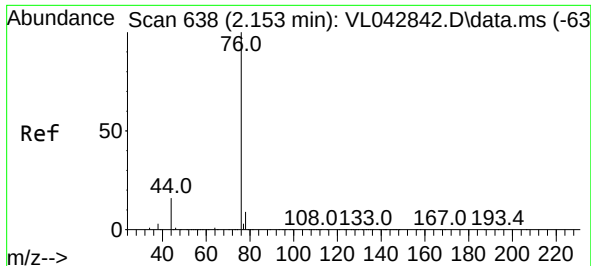
Tgt Ion:	43	Resp:	43007
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.7	7.4	11.2
70	10.3	7.3	10.9



#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_1

ClientSampleId :

VSTDIC001

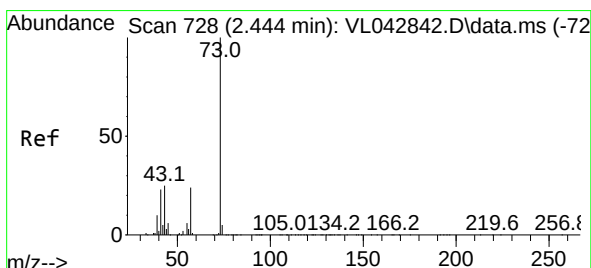
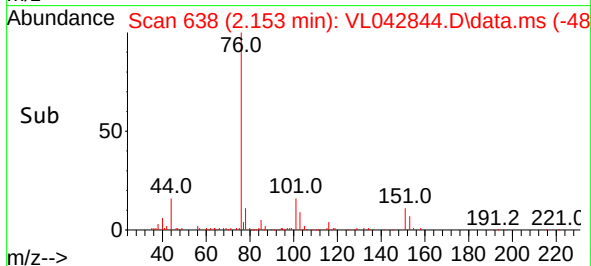
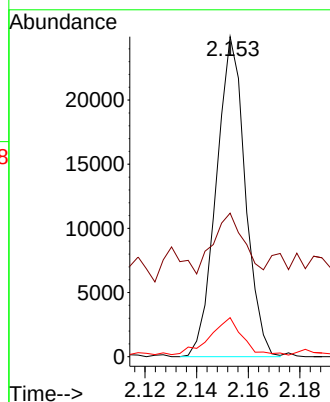
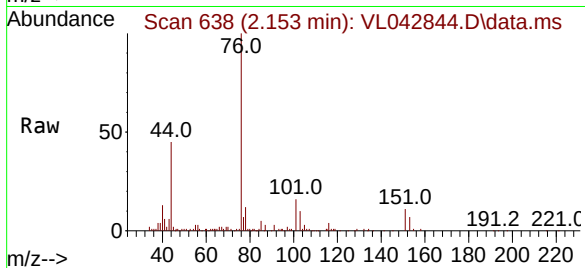
Tgt Ion: 76 Resp: 19450

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

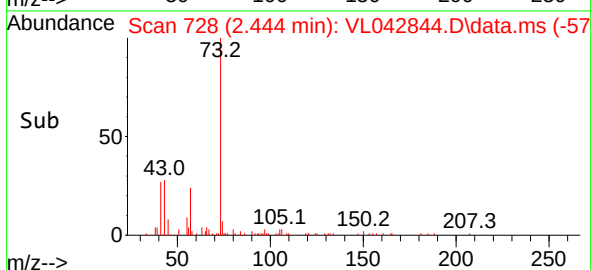
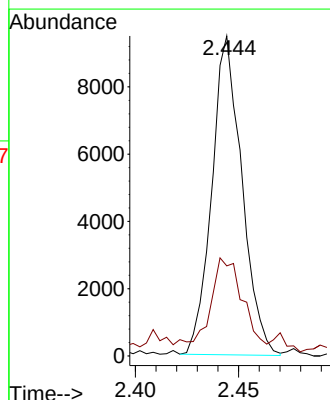
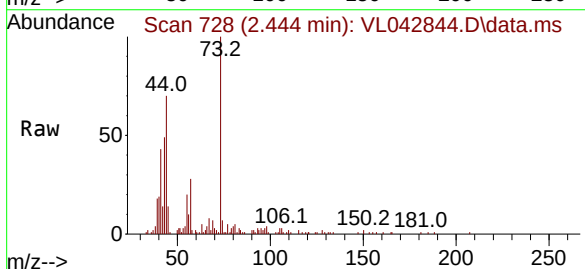
Acq: 13 Aug 2025 09:41

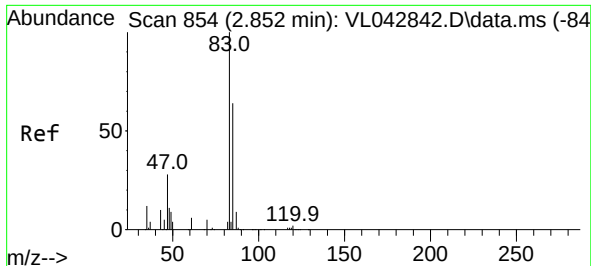
Tgt Ion: 73 Resp: 9600

Ion Ratio Lower Upper

73 100

57 33.4 21.6 32.4#

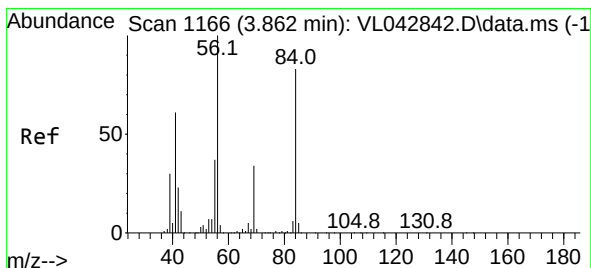
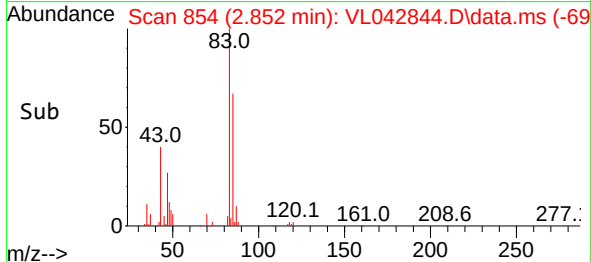
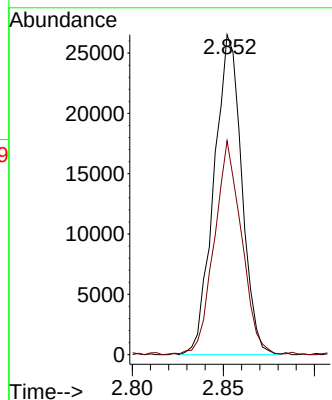
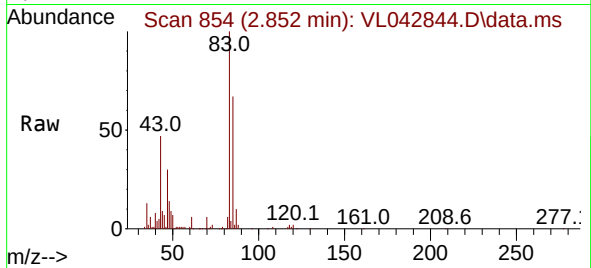




#29
Chloroform
Concen: 1.034 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

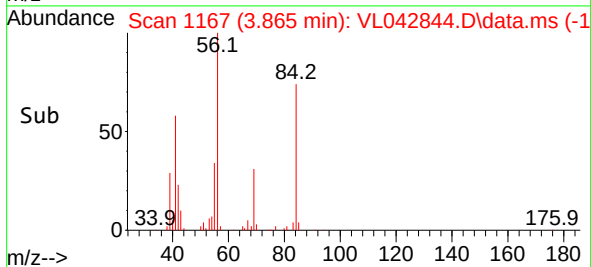
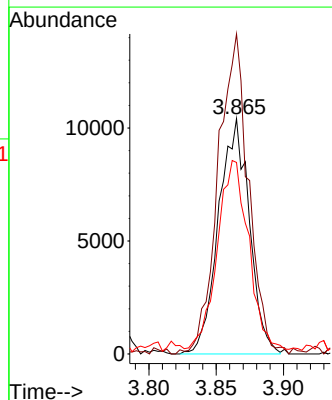
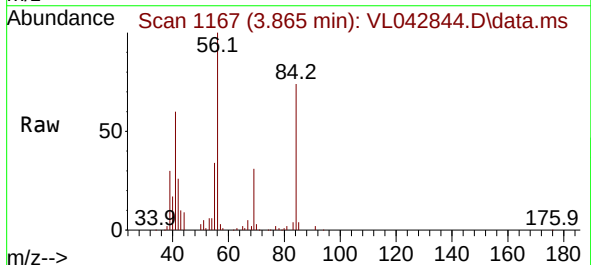
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

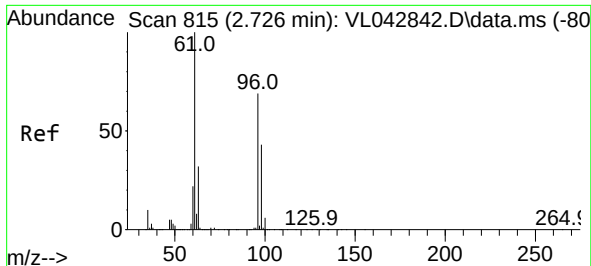
Tgt Ion: 83 Resp: 28055
Ion Ratio Lower Upper
83 100
85 66.6 51.1 76.7



#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

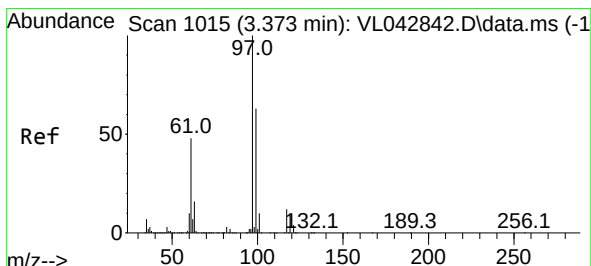
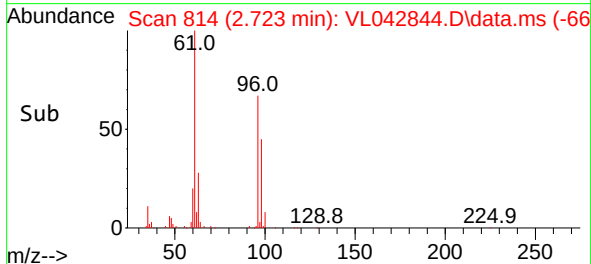
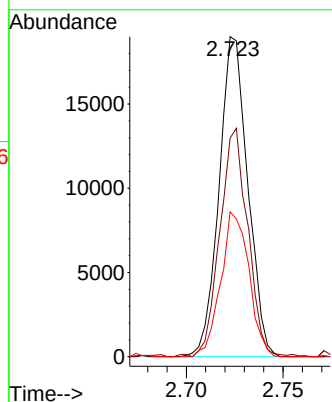
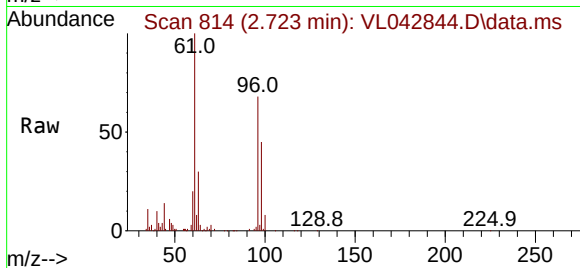




#31
 cis-1,2-Dichloroethene
 Concen: 1.031 ppbv
 RT: 2.723 min Scan# 815
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

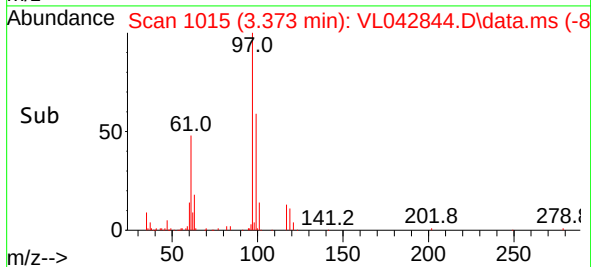
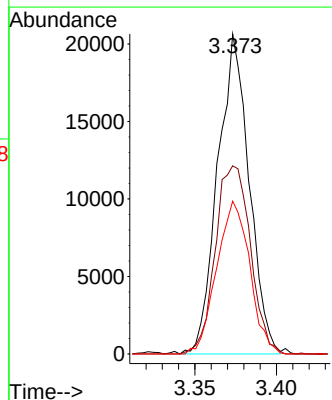
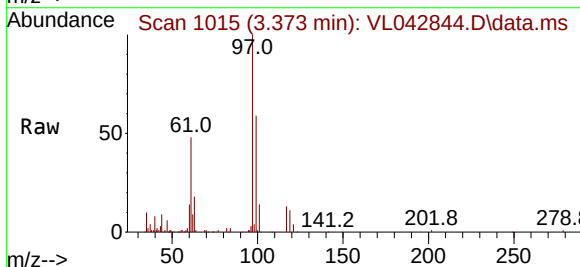
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

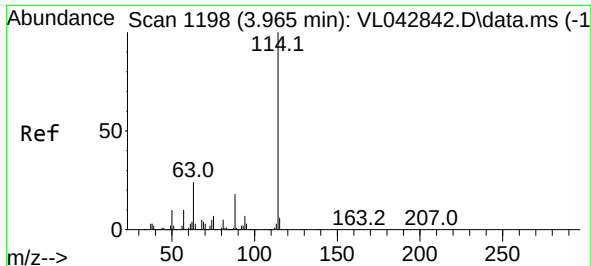
Tgt Ion: 61 Resp: 19591
 Ion Ratio Lower Upper
 61 100
 96 67.7 55.0 82.6
 98 45.2 34.3 51.5



#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

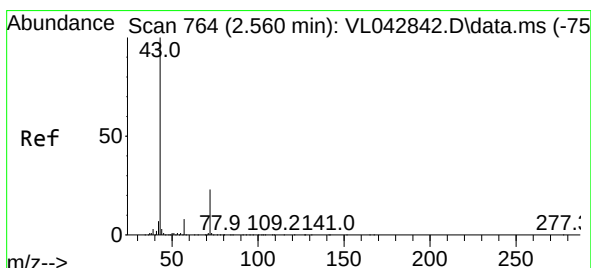
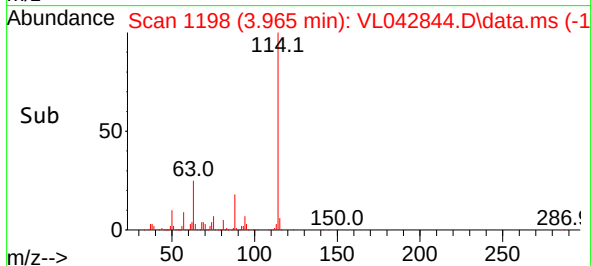
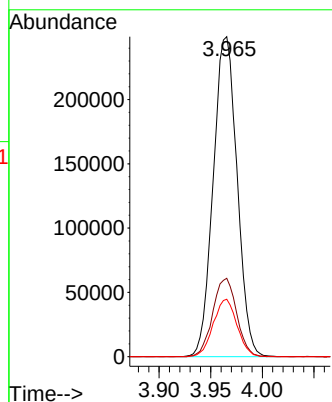
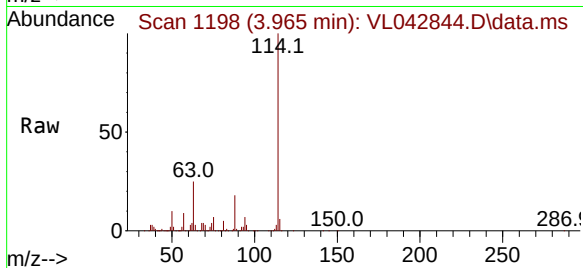
Tgt Ion:114 Resp: 400305

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

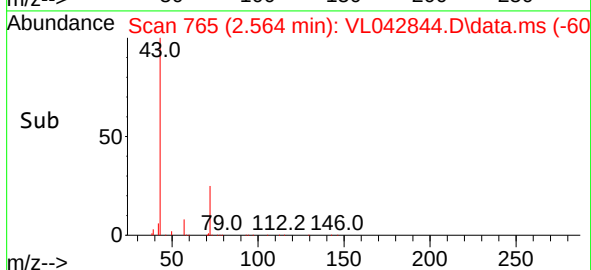
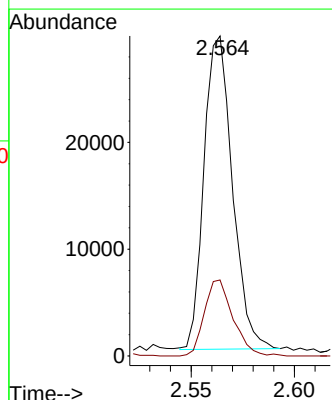
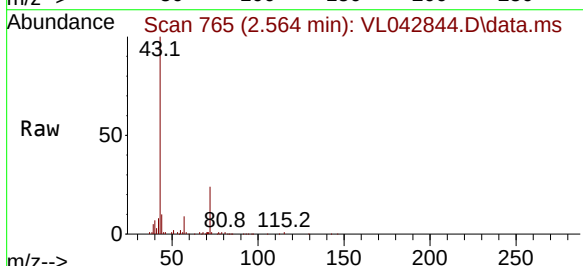
Acq: 13 Aug 2025 09:41

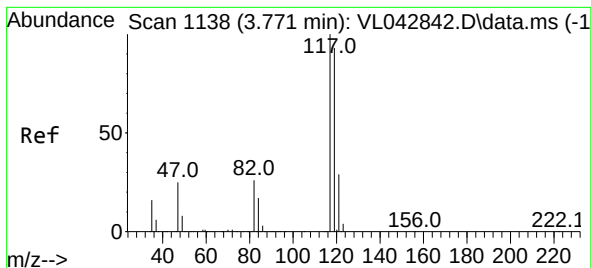
Tgt Ion: 43 Resp: 28105

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_L

ClientSampleId :

VSTDIC001

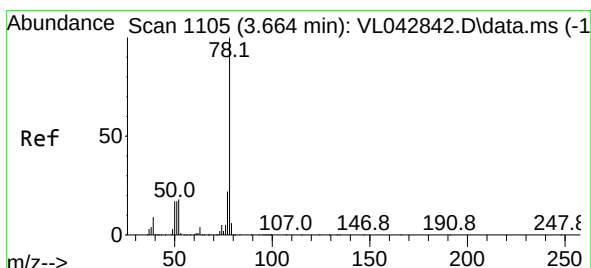
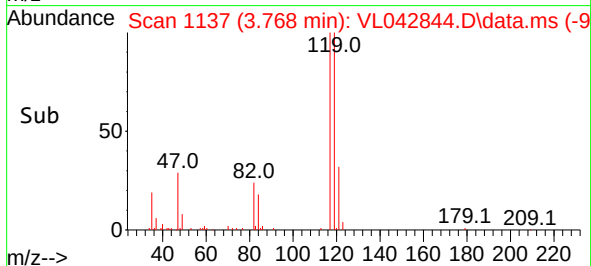
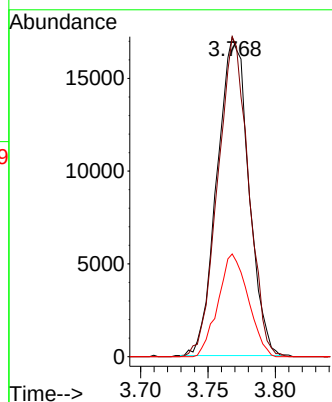
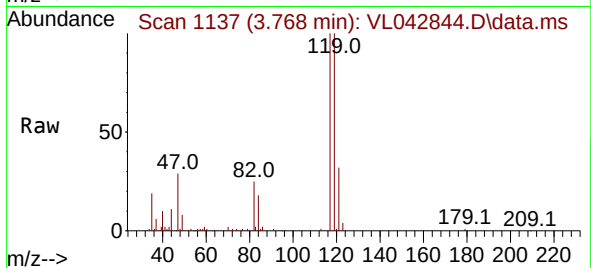
Tgt Ion:117 Resp: 28008

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

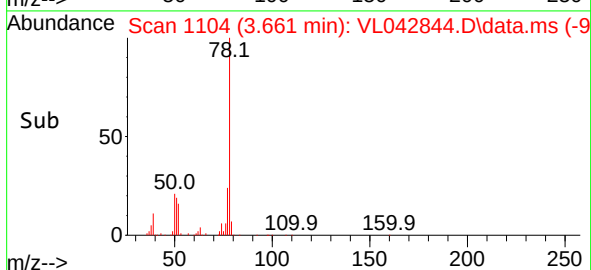
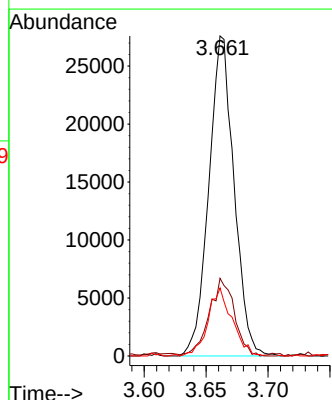
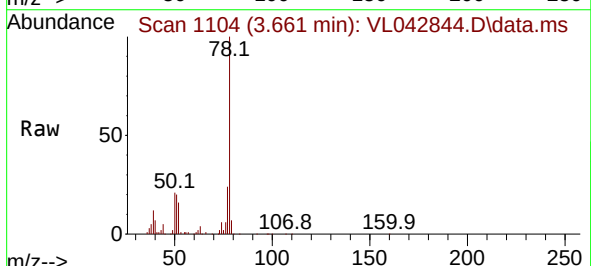
Tgt Ion: 78 Resp: 39137

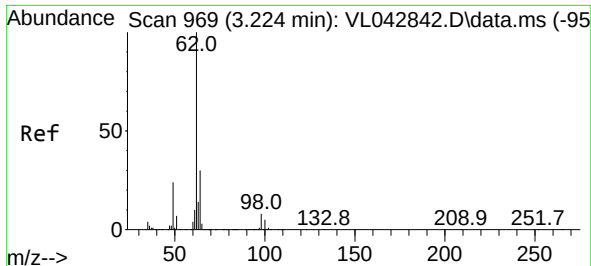
Ion Ratio Lower Upper

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 :

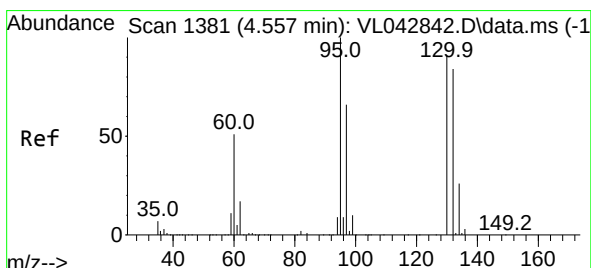
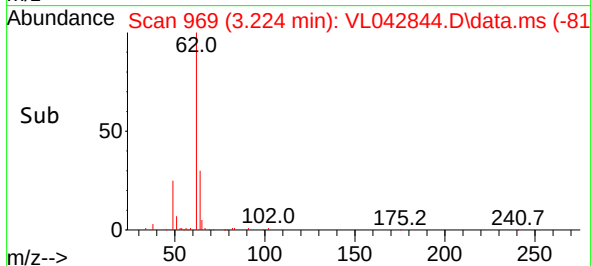
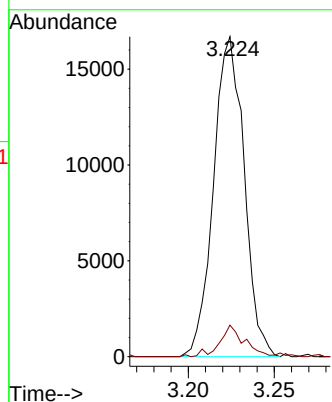
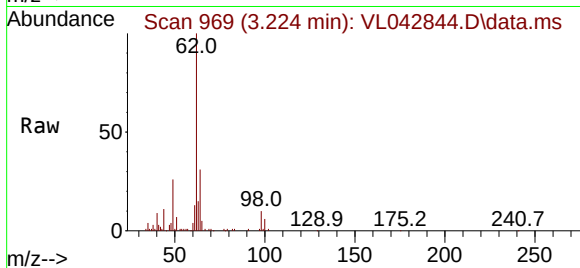
VSTDIC001

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

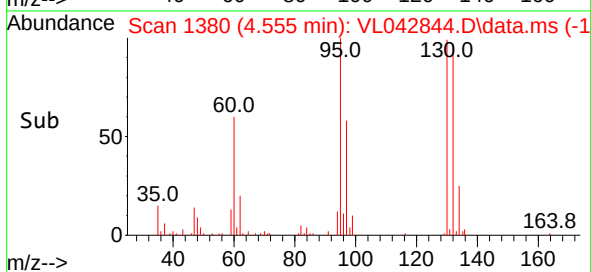
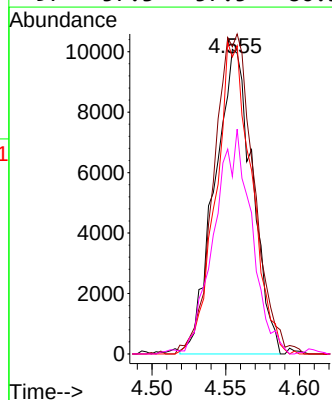
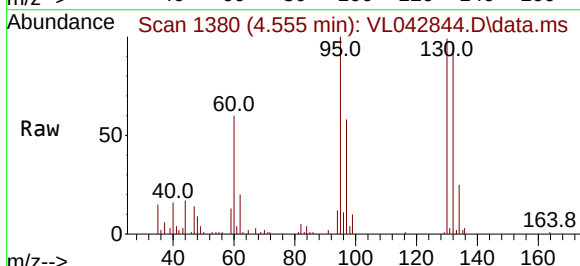
Ion Ratio Lower Upper

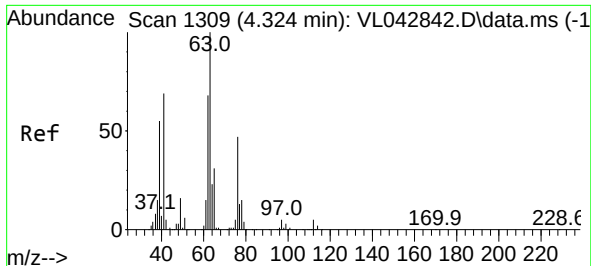
130 100

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

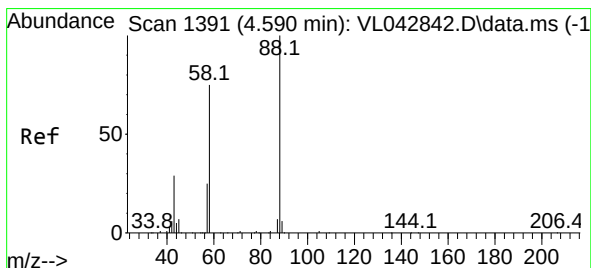
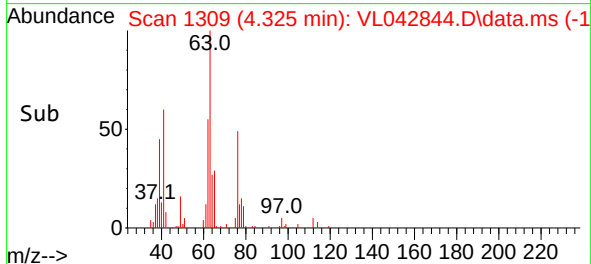
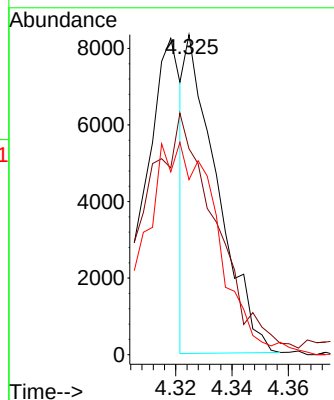
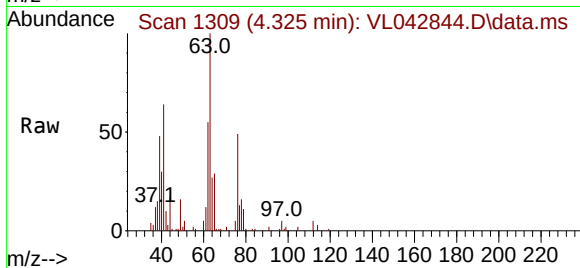
Tgt Ion: 63 Resp: 6572

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

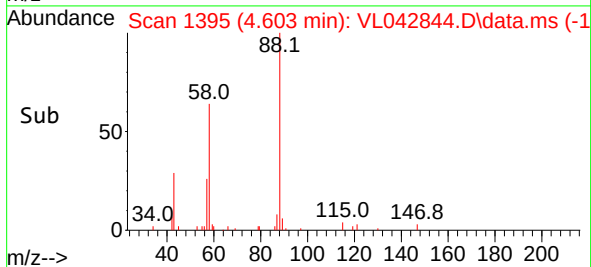
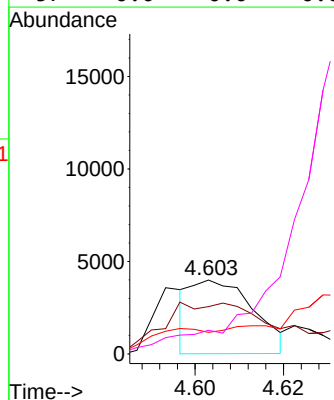
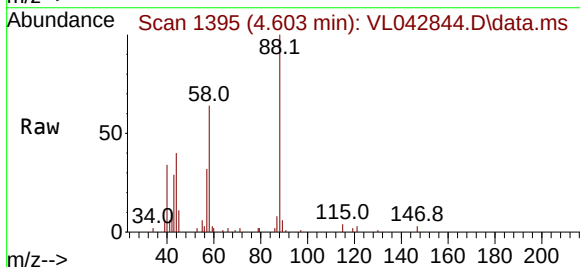
Ion Ratio Lower Upper

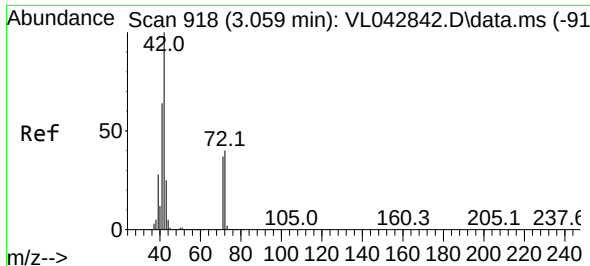
88 100

58 0.0 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

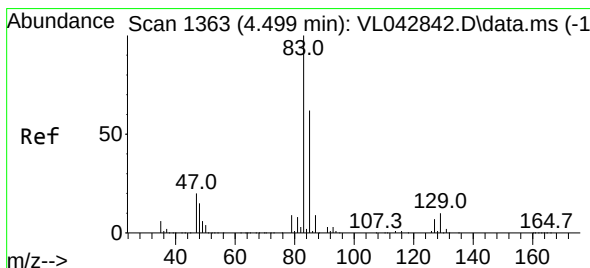
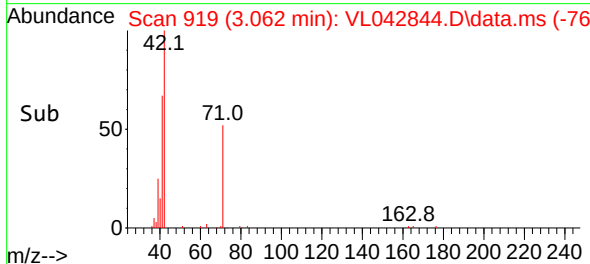
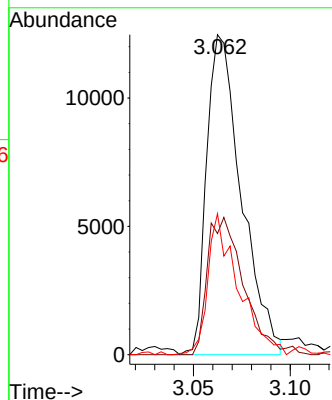
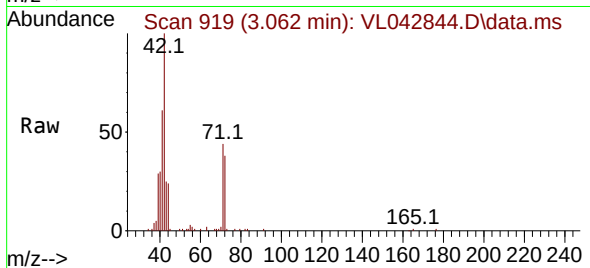




#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

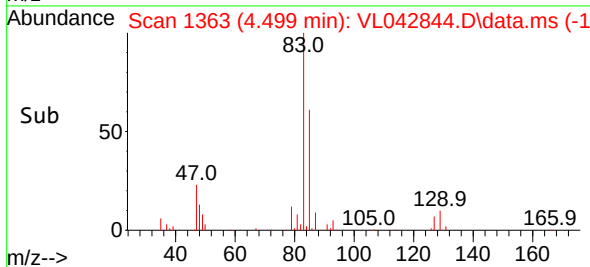
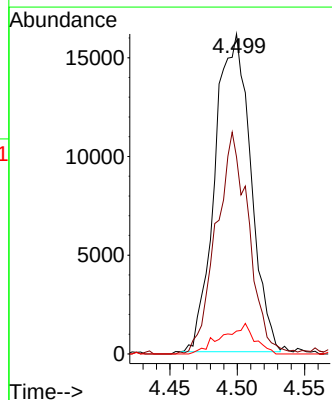
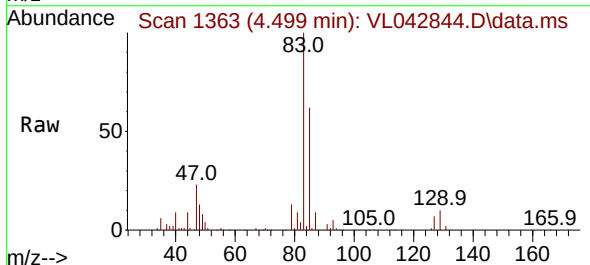
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

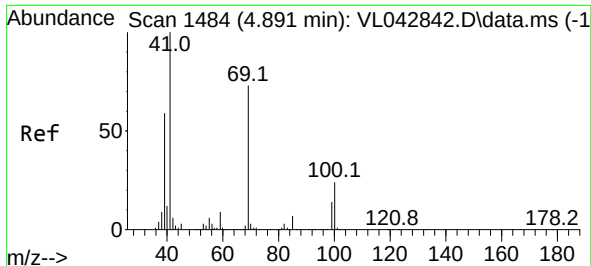
Tgt Ion: 42 Resp: 15552
Ion Ratio Lower Upper
42 100
72 45.4 32.6 48.8
71 40.1 30.0 45.0



#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_1

ClientSampleId :

VSTDIC001

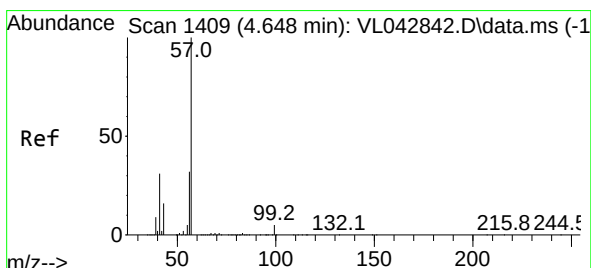
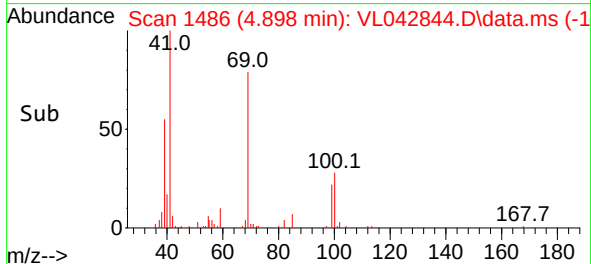
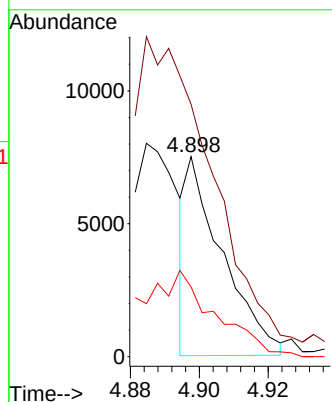
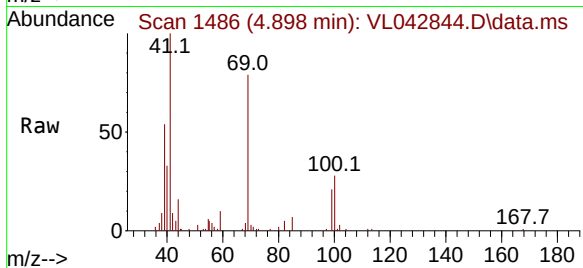
Tgt Ion: 69 Resp: 5494

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

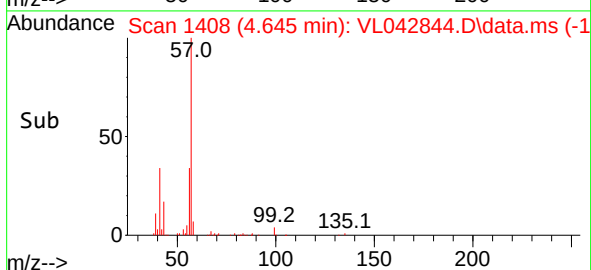
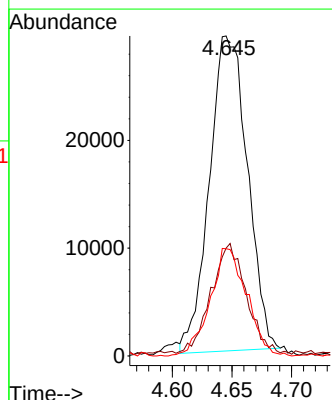
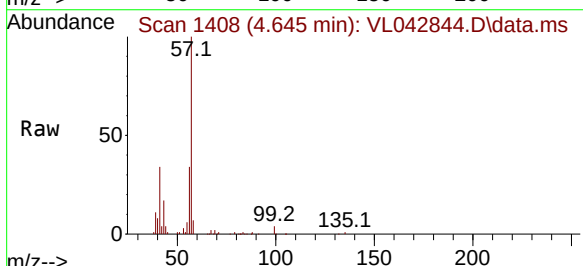
Tgt Ion: 57 Resp: 64930

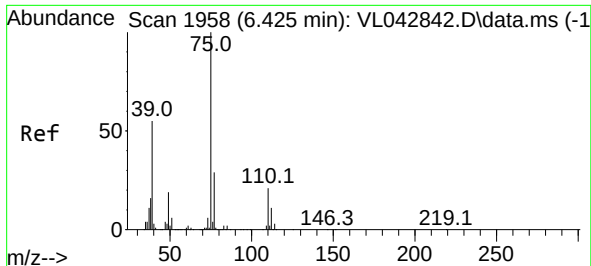
Ion Ratio Lower Upper

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 :

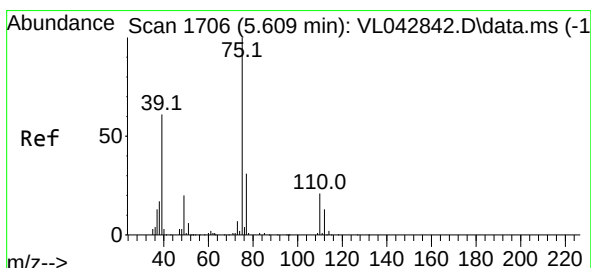
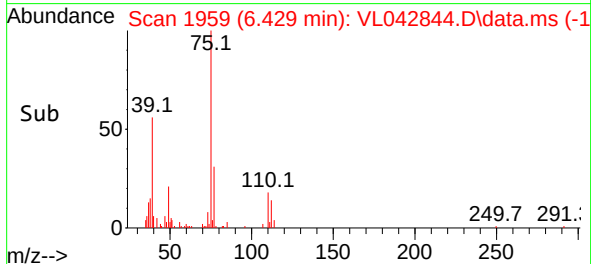
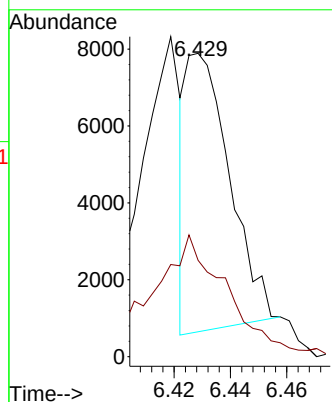
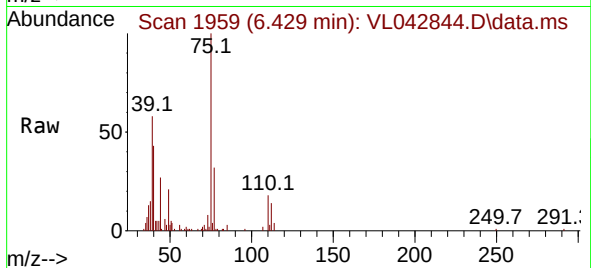
VSTDIC001

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

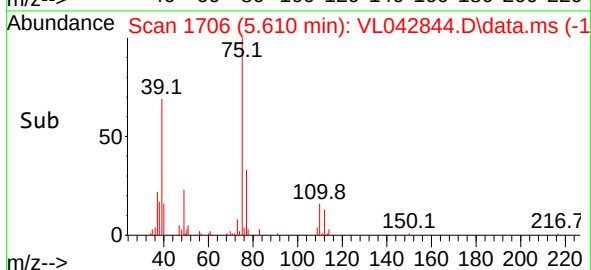
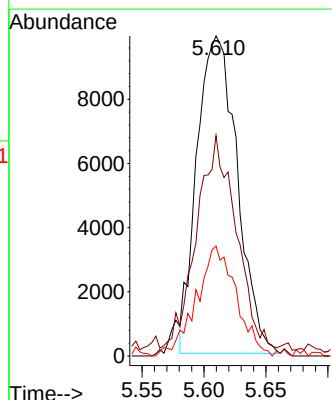
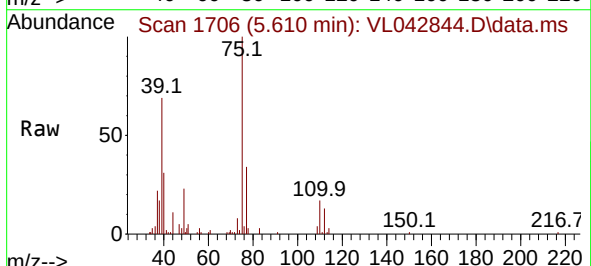
Tgt Ion: 75 Resp: 22372

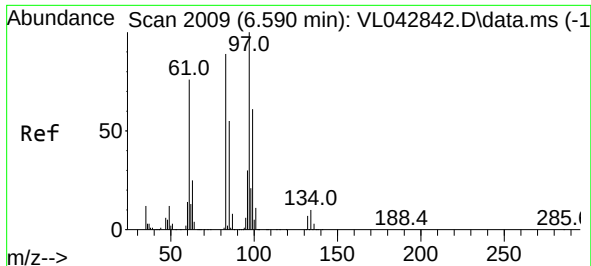
Ion Ratio Lower Upper

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

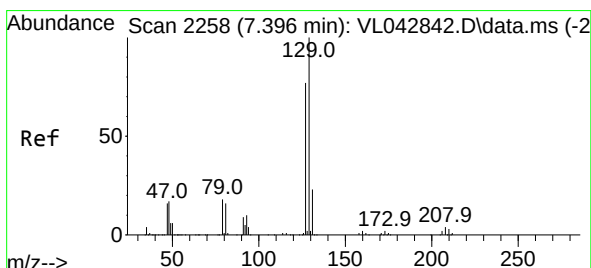
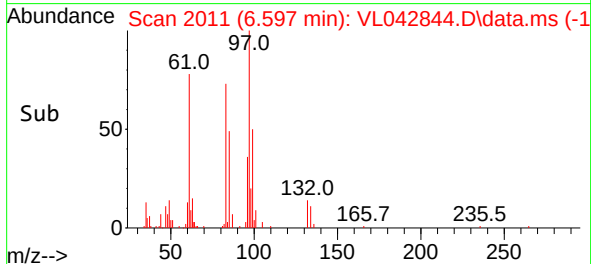
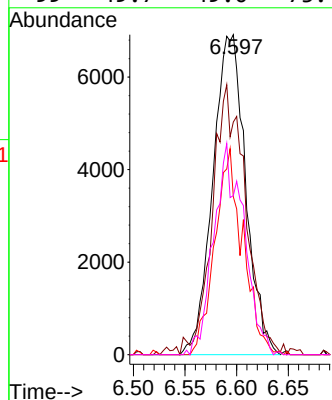
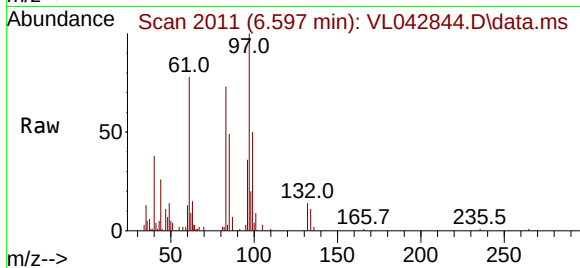
Ion Ratio Lower Upper

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

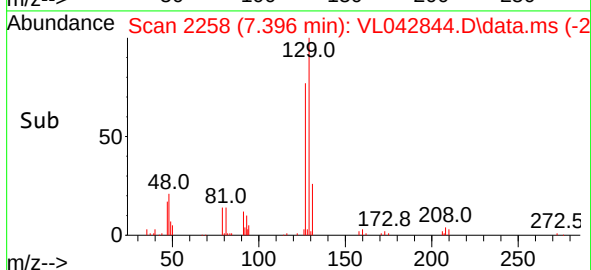
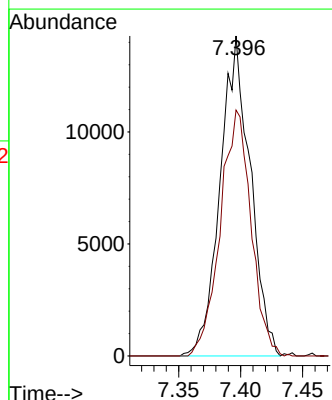
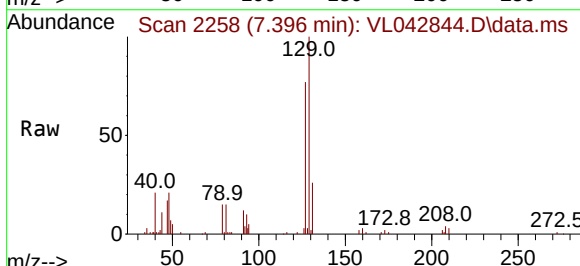
Acq: 13 Aug 2025 09:41

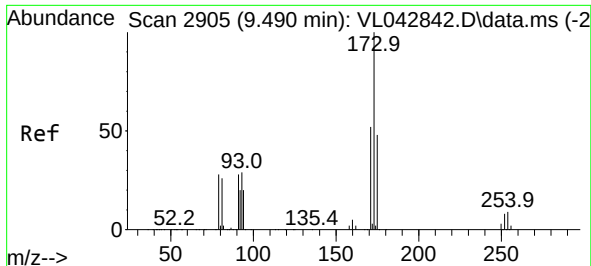
Tgt Ion: 129 Resp: 24214

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

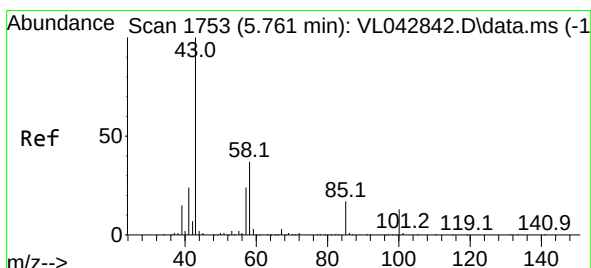
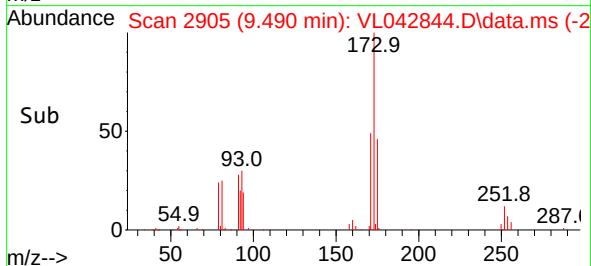
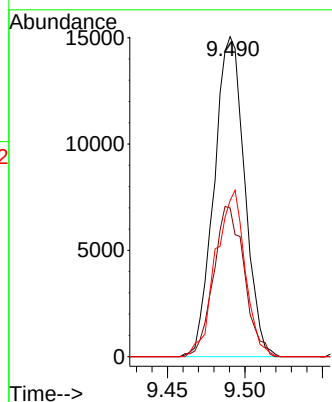
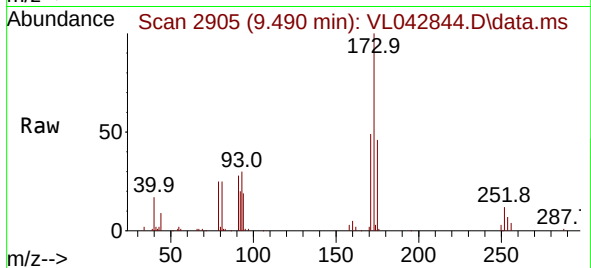
Tgt Ion:173 Resp: 20579

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

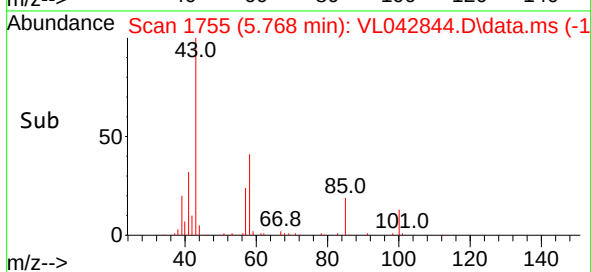
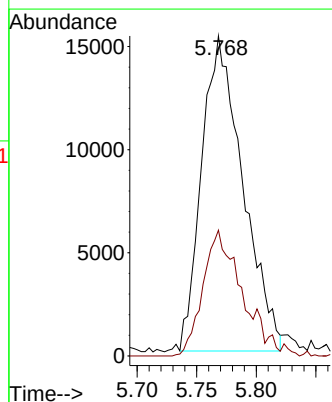
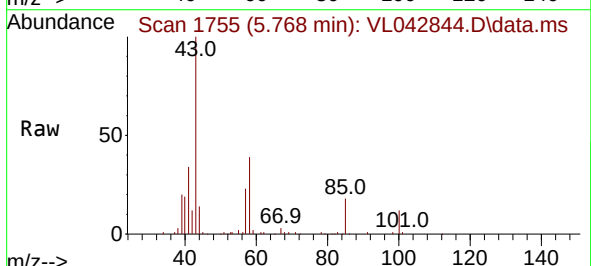
Acq: 13 Aug 2025 09:41

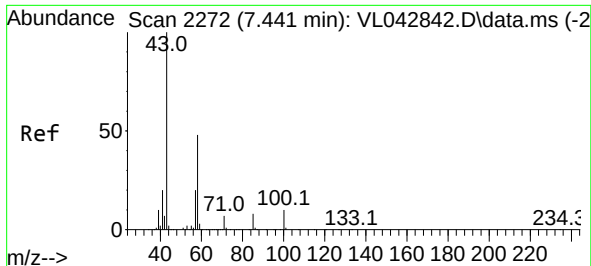
Tgt Ion: 43 Resp: 36710

Ion Ratio Lower Upper

43 100

58 38.3 29.8 44.8

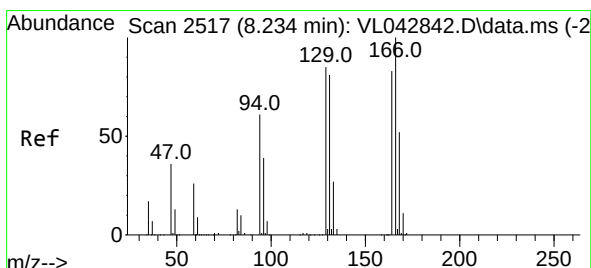
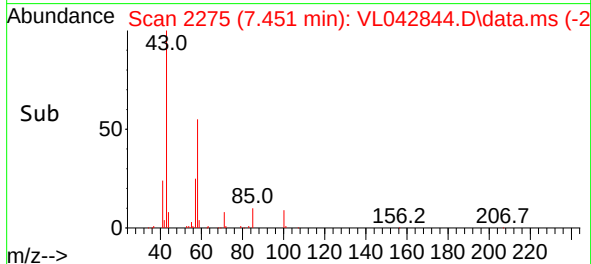
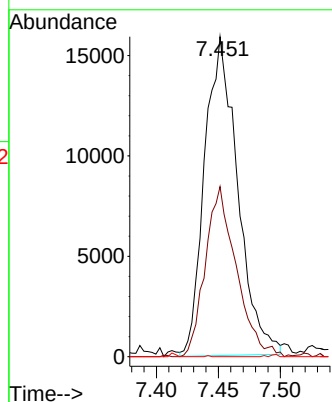
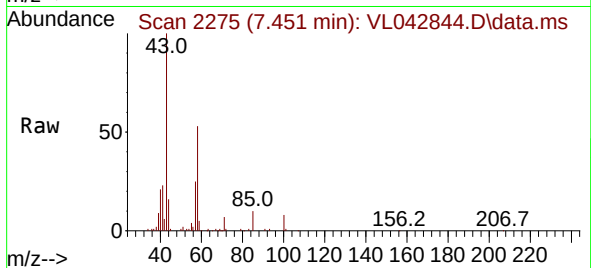




#51
2-Hexanone
Concen: 1.026 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

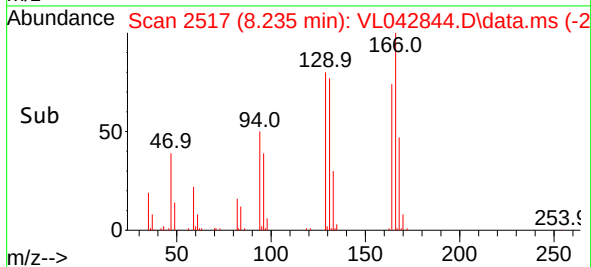
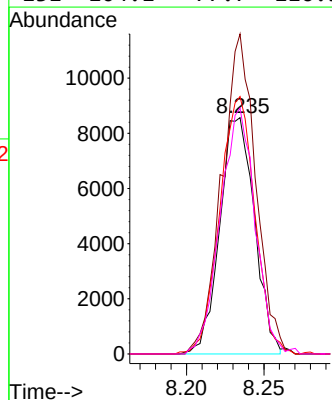
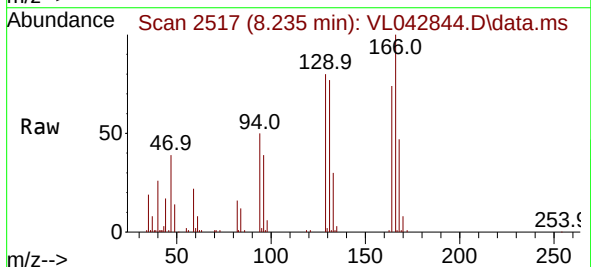
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

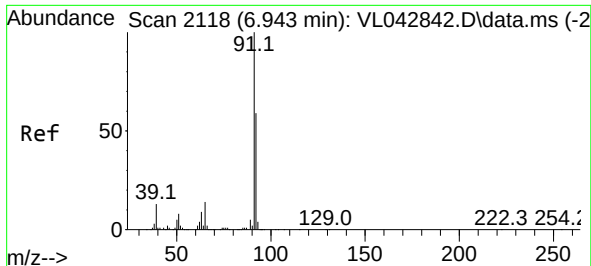
Tgt Ion: 43 Resp: 29487
Ion Ratio Lower Upper
43 100
58 50.6 41.0 61.6
98 0.2 0.1 0.1#



#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

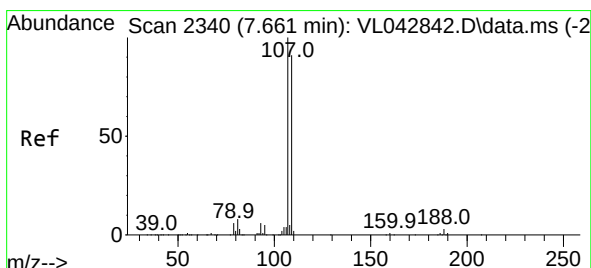
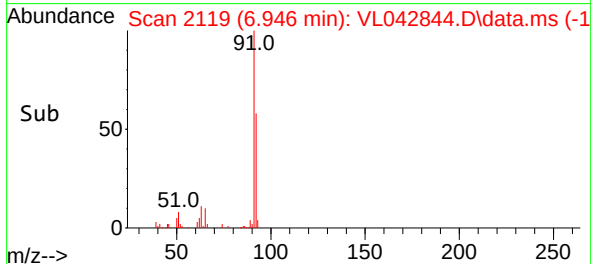
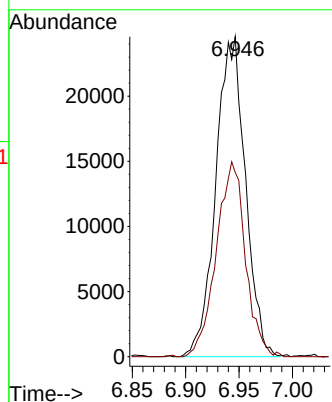
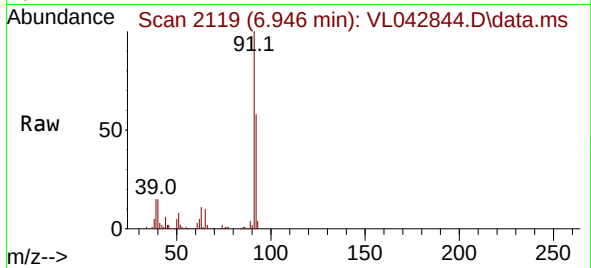




#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

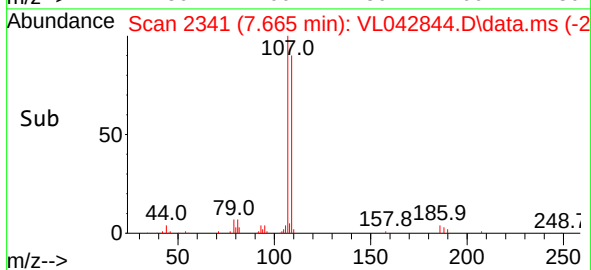
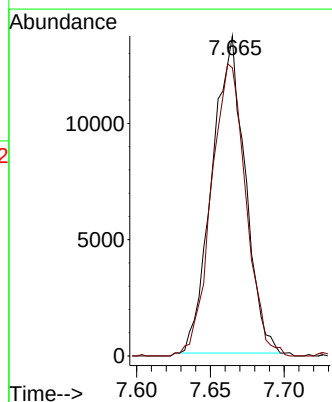
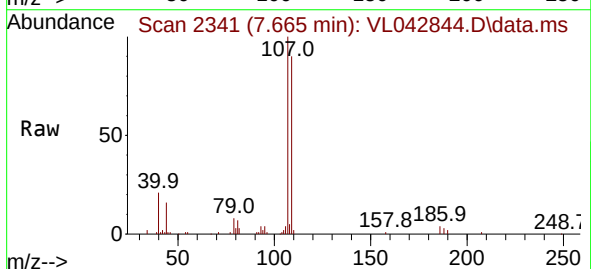
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

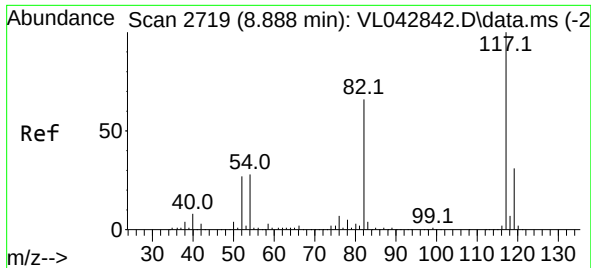
Tgt Ion: 91 Resp: 47256
Ion Ratio Lower Upper
91 100
92 60.1 47.8 71.6



#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

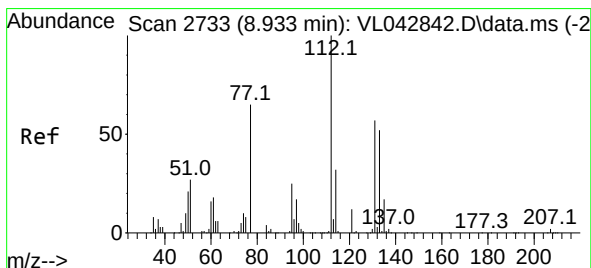
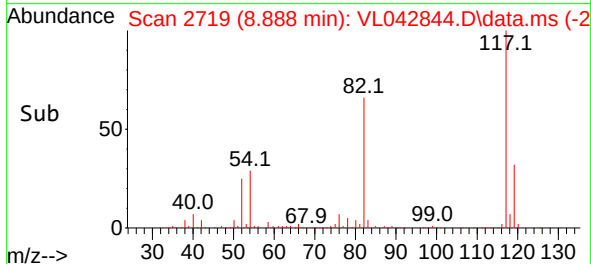
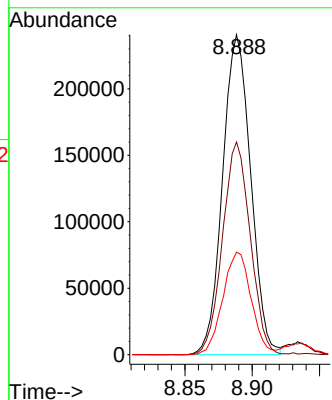
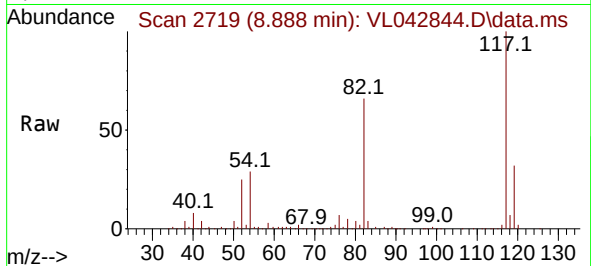




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

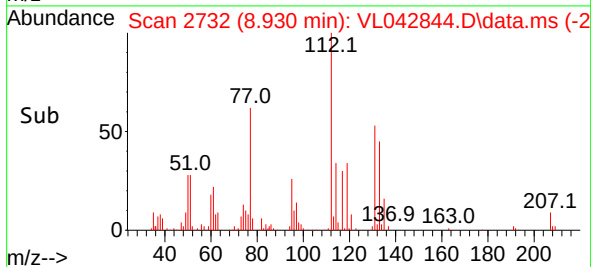
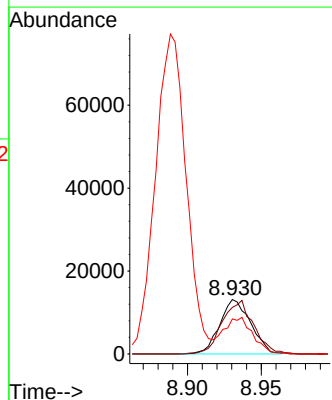
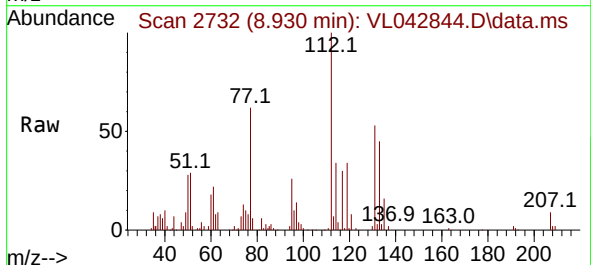
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

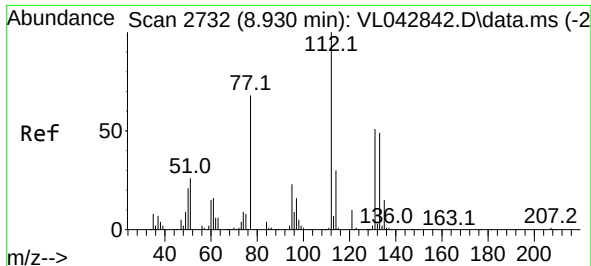
Tgt Ion:117 Resp: 349577
Ion Ratio Lower Upper
117 100
82 65.9 54.6 81.8
119 32.9 25.9 38.9



#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

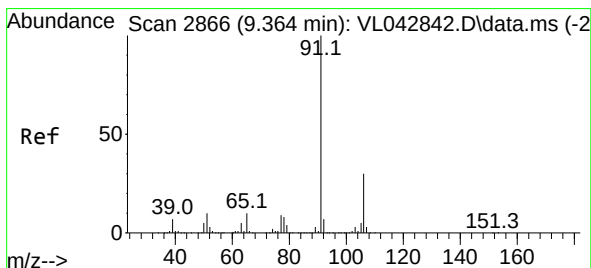
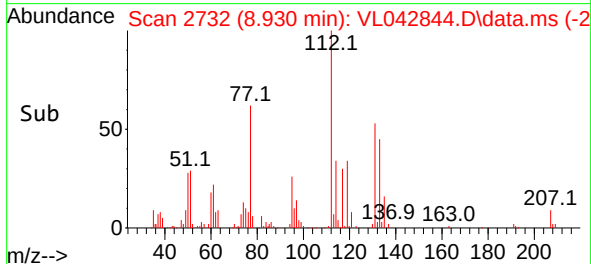
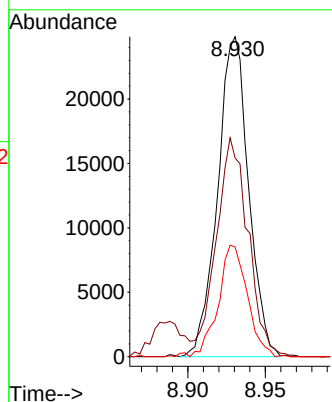
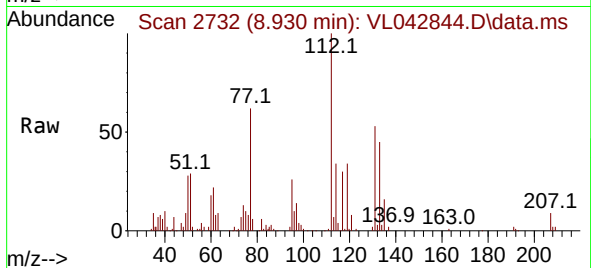




#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

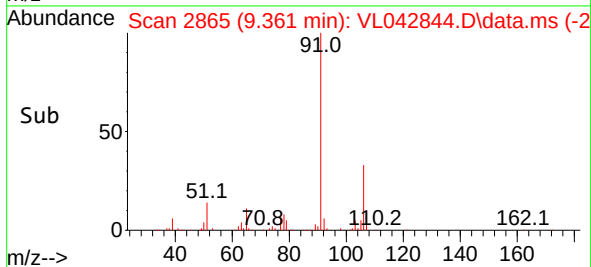
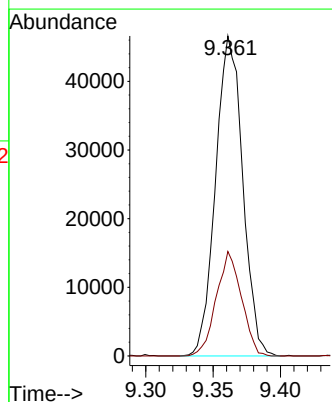
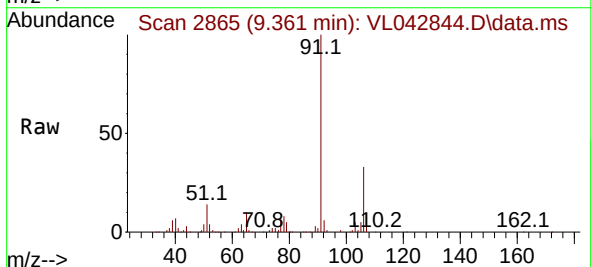
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

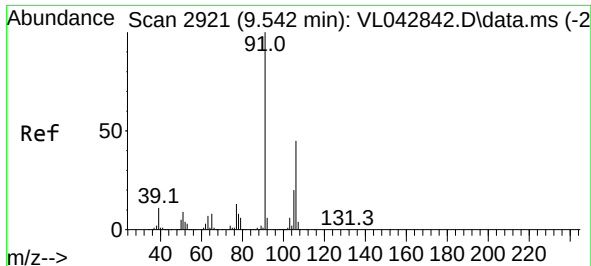
Tgt Ion:112 Resp: 34617
Ion Ratio Lower Upper
112 100
77 61.0 55.5 83.3
114 34.0 27.2 33.2#



#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 :

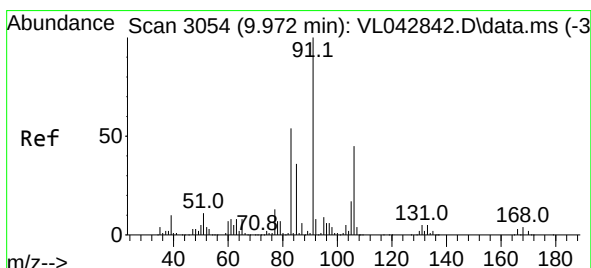
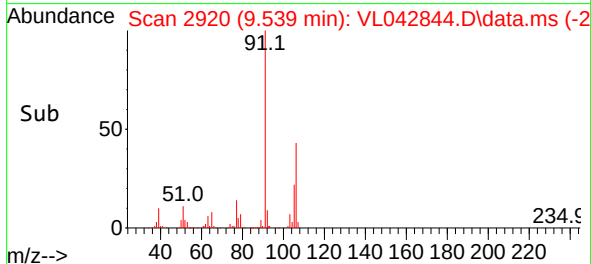
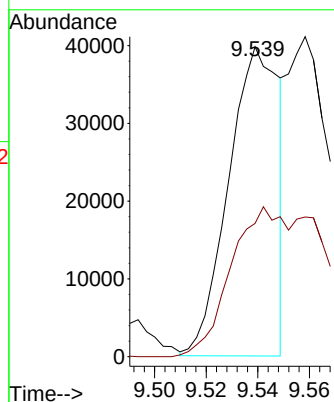
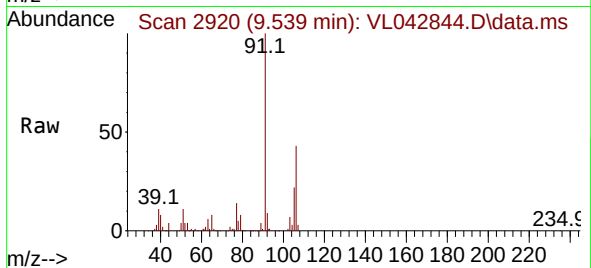
VSTDIC001

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

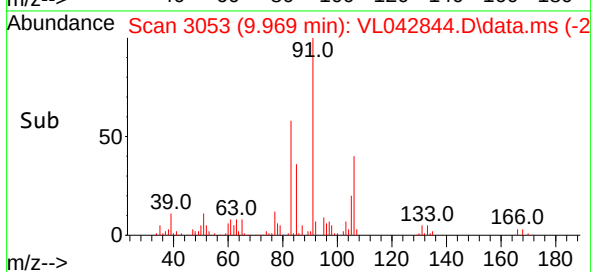
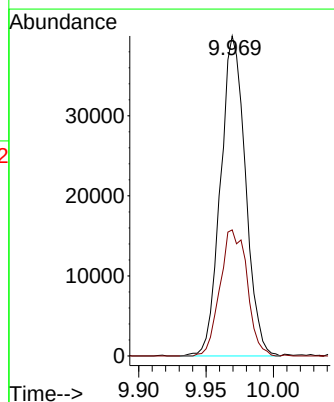
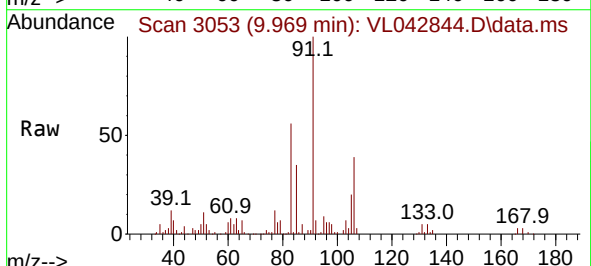
Acq: 13 Aug 2025 09:41

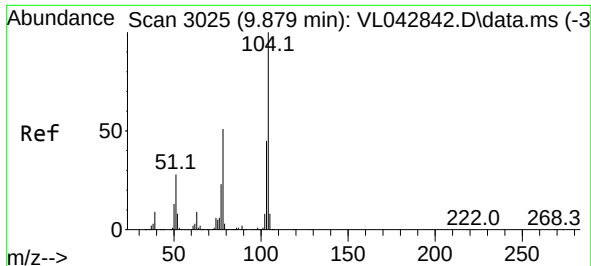
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4

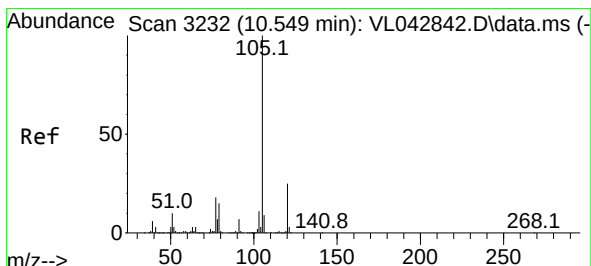
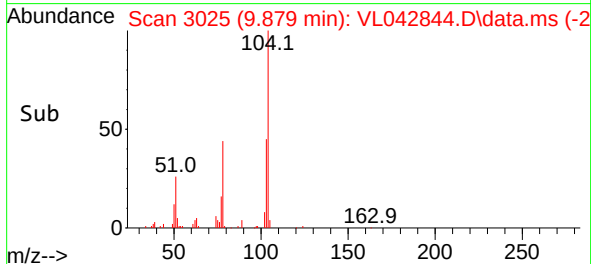
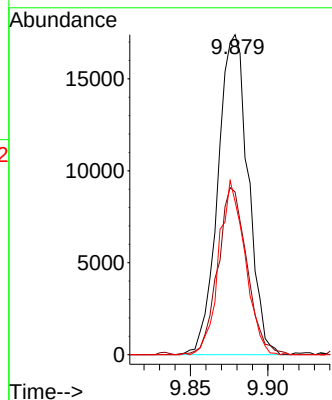
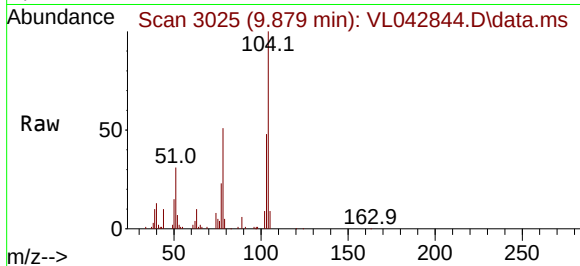




#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

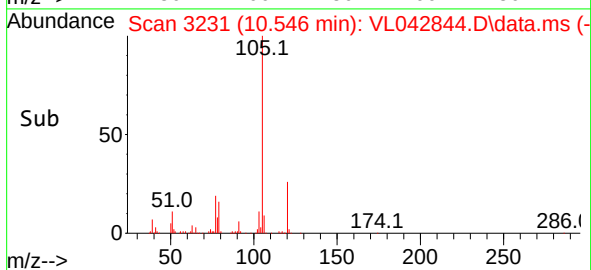
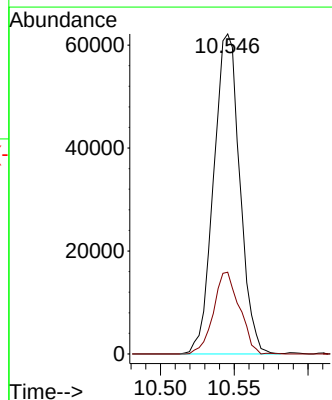
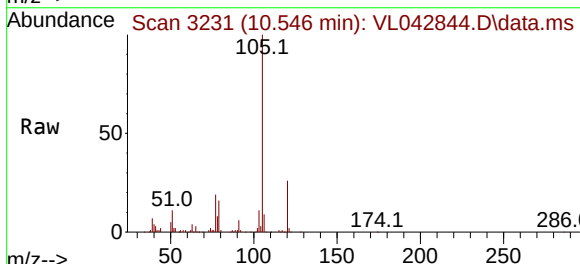
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

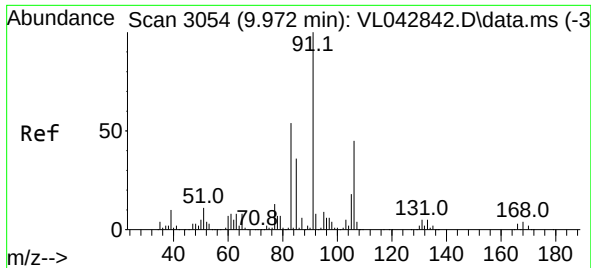
Tgt Ion:104 Resp: 23660
Ion Ratio Lower Upper
104 100
78 50.4 40.6 61.0
103 47.3 37.7 56.5



#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

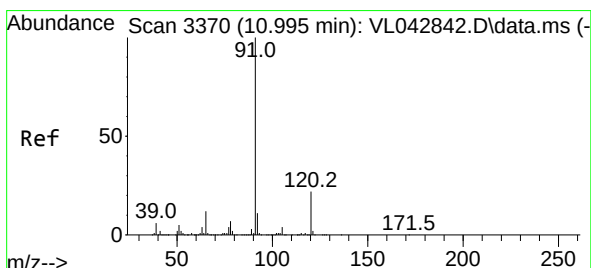
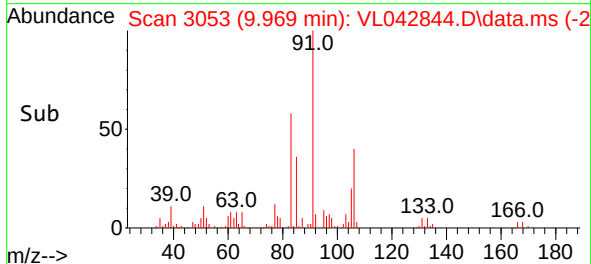
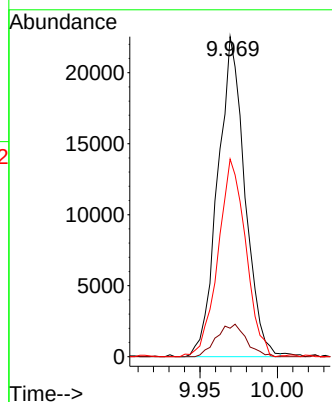
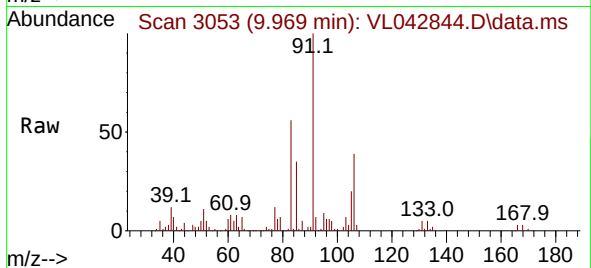




#63
1,1,2,2-Tetrachloroethane
Concen: 1.032 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

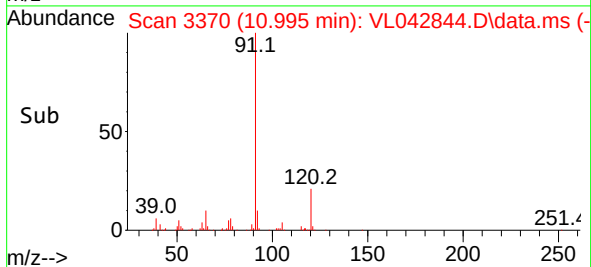
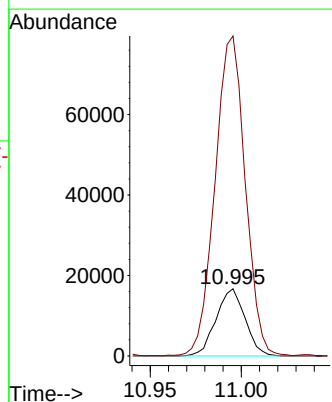
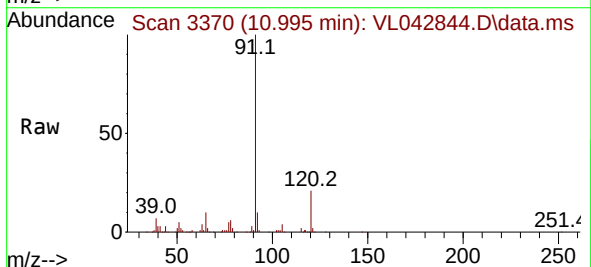
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

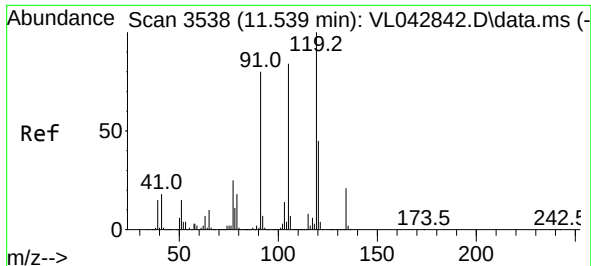
Tgt Ion: 83 Resp: 27410
Ion Ratio Lower Upper
83 100
131 11.2 4.8 14.3
85 63.5 32.3 96.8



#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

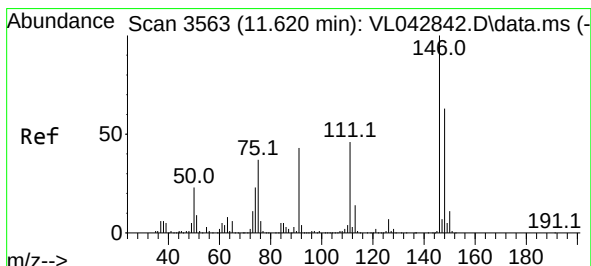
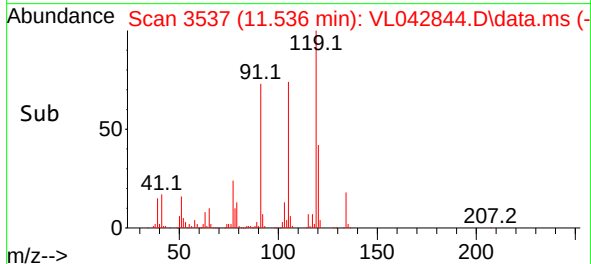
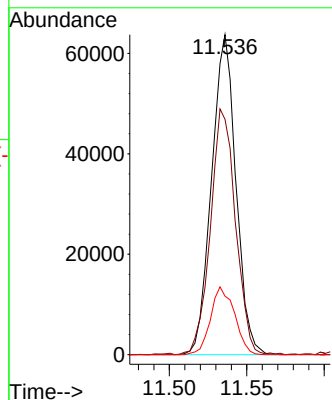
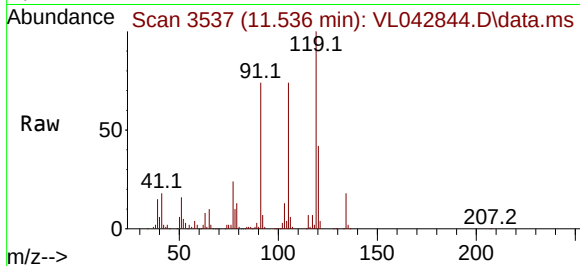




#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

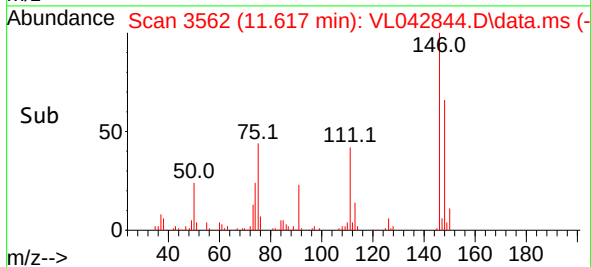
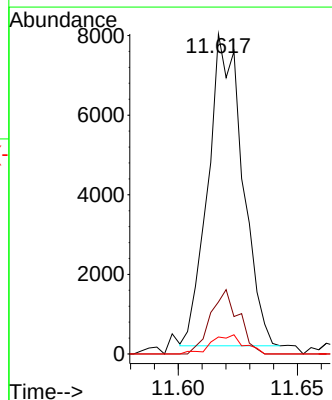
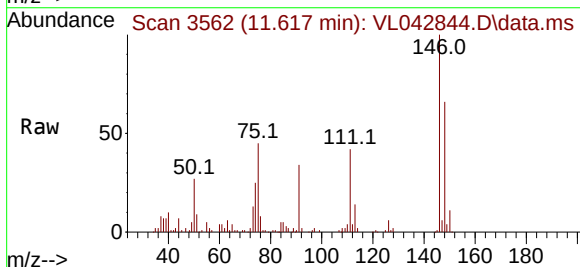
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

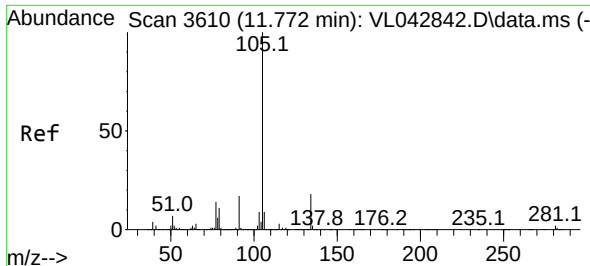
Tgt Ion:119 Resp: 69617
Ion Ratio Lower Upper
119 100
91 79.3 63.9 95.9
134 20.9 17.0 25.4



#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

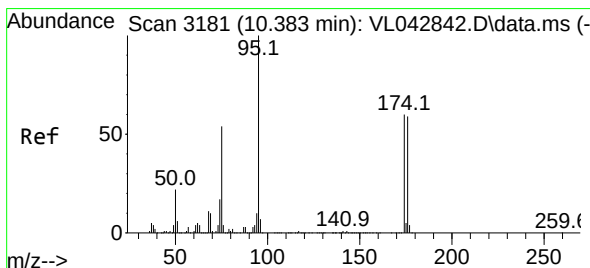
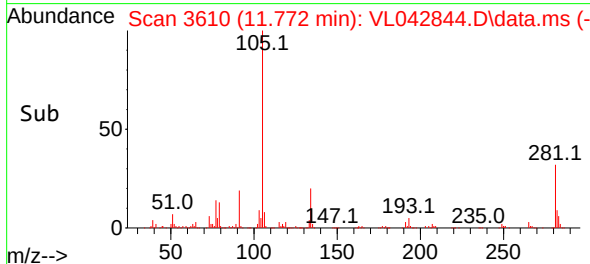
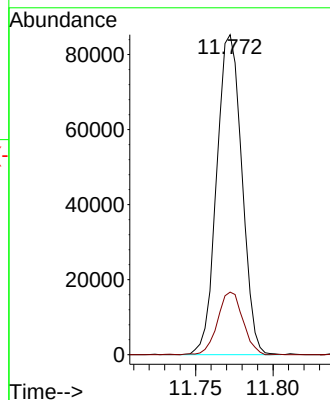
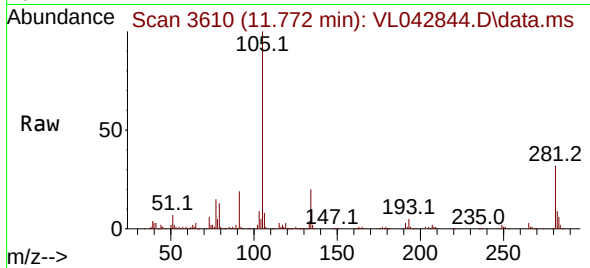




#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

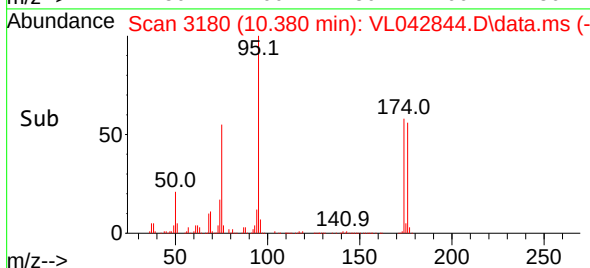
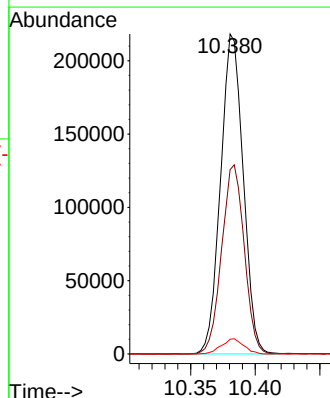
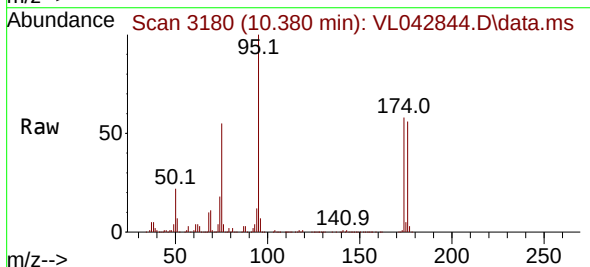
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

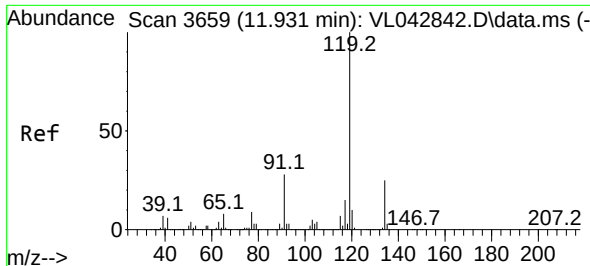
Tgt Ion:105 Resp: 96288
 Ion Ratio Lower Upper
 105 100
 134 19.7 14.9 22.3



#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

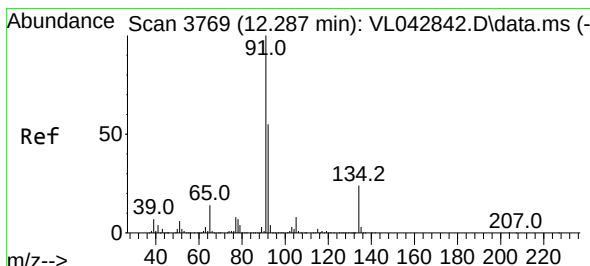
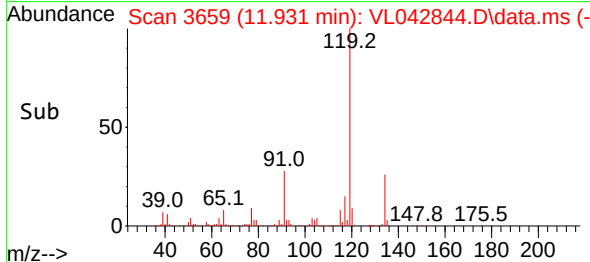
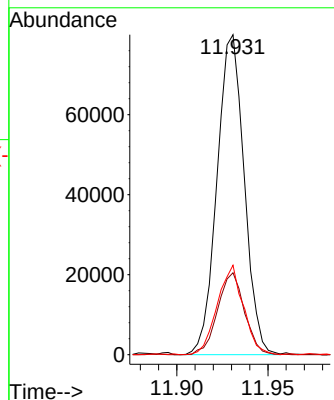
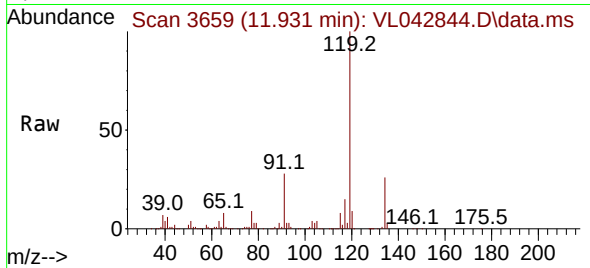




#69
 p-Isopropyltoluene
 Concen: 1.098 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

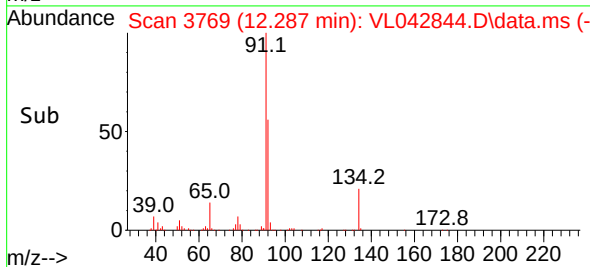
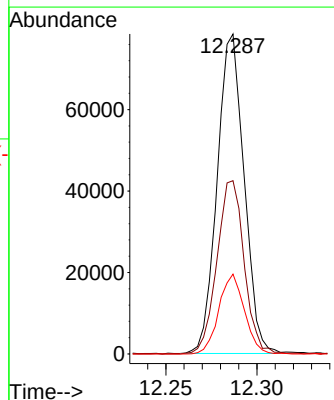
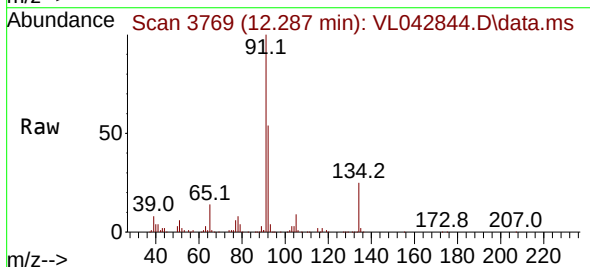
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

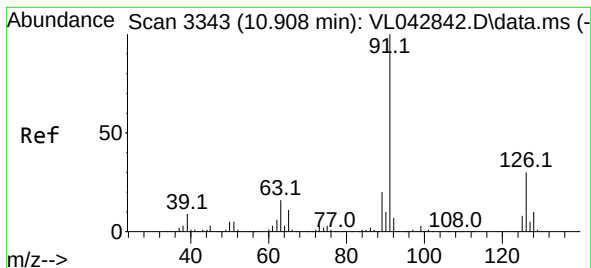
Tgt Ion:	119	Resp:	82934
Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	30.8
91	27.2	22.6	34.0



#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

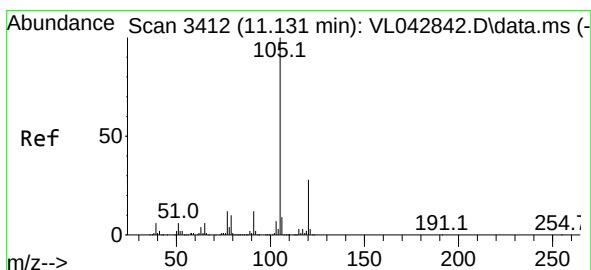
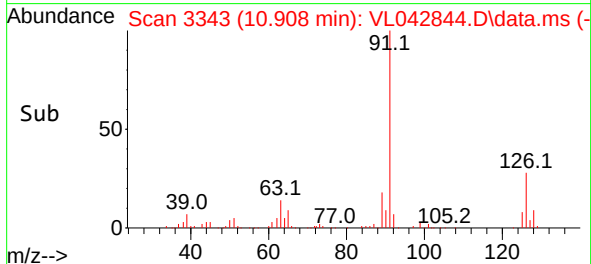
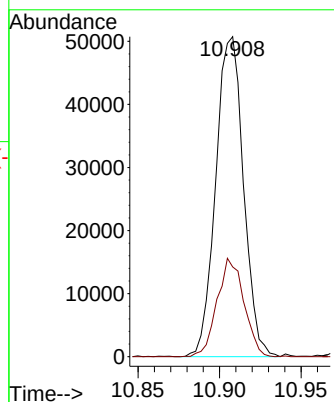
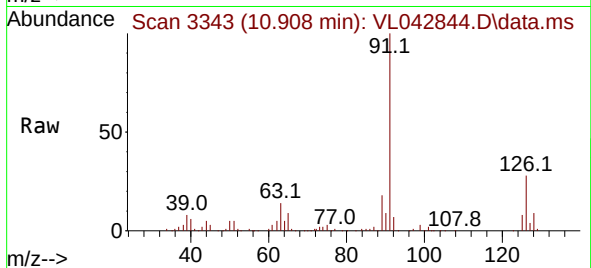




#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

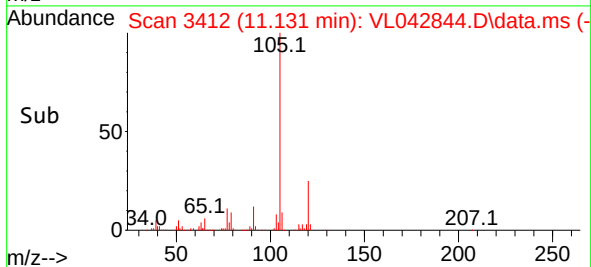
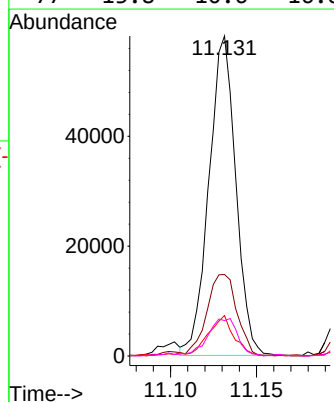
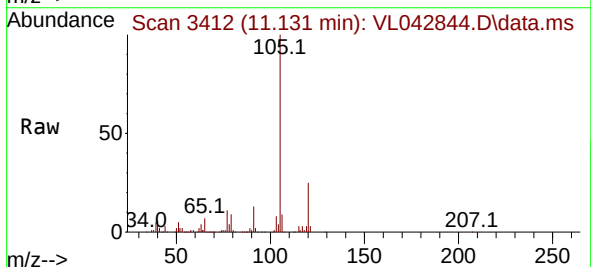
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

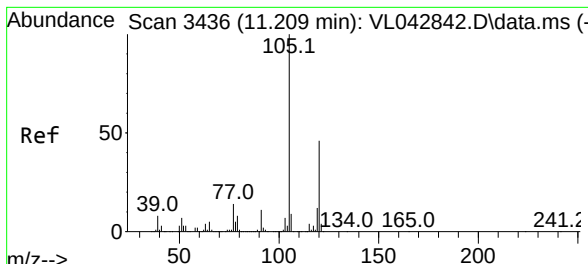
Tgt Ion: 91 Resp: 60086
Ion Ratio Lower Upper
91 100
126 29.7 12.0 47.8



#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

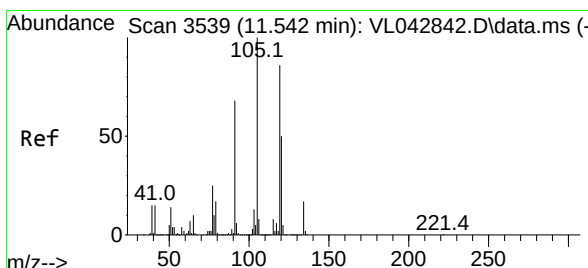
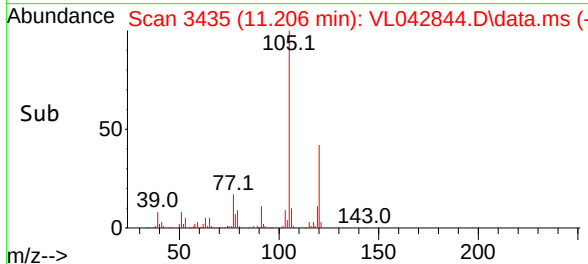
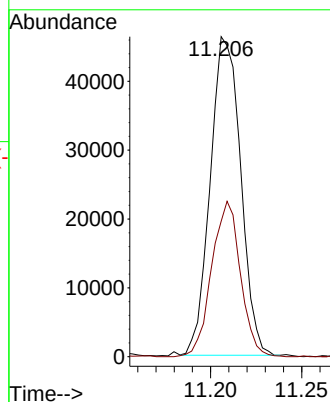
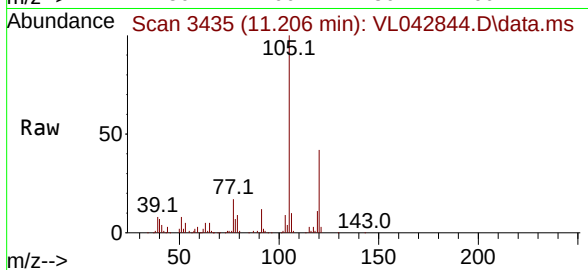




#73
 1,3,5-Trimethylbenzene
 Concen: 1.070 ppbv
 RT: 11.206 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

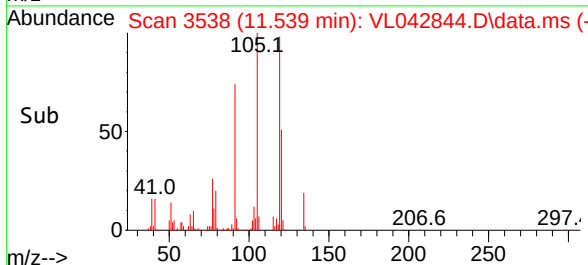
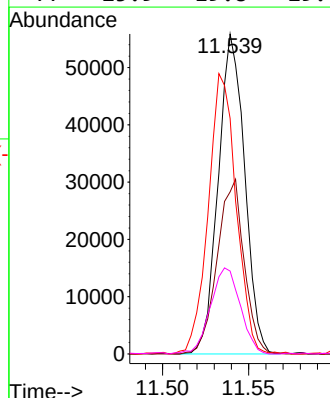
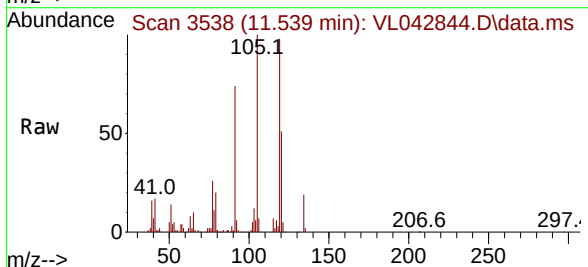
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

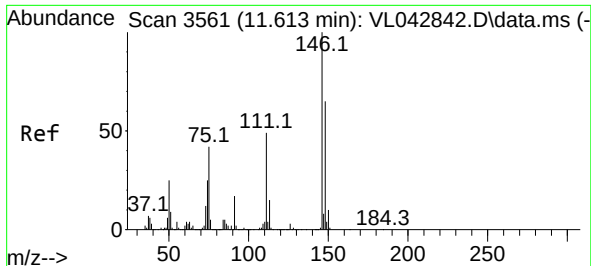
Tgt Ion:105 Resp: 53676
 Ion Ratio Lower Upper
 105 100
 120 42.3 36.6 54.8



#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

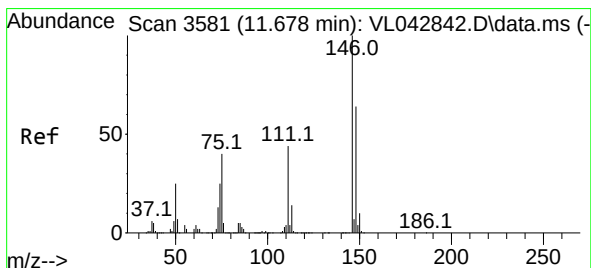
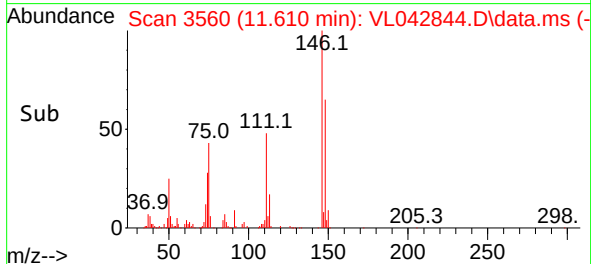
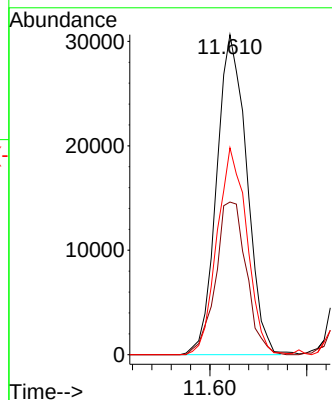
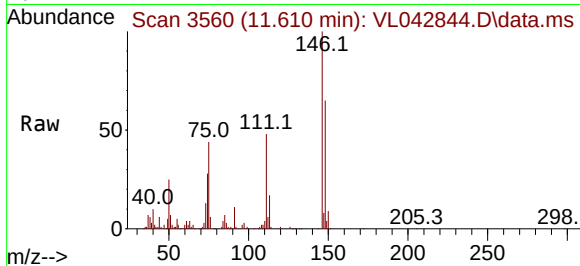




#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

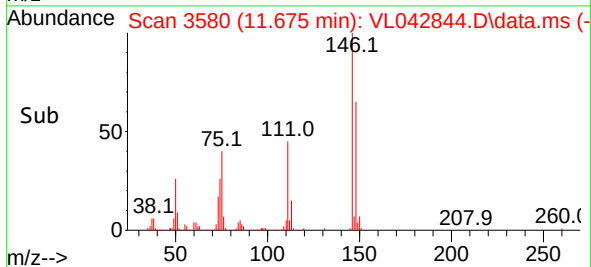
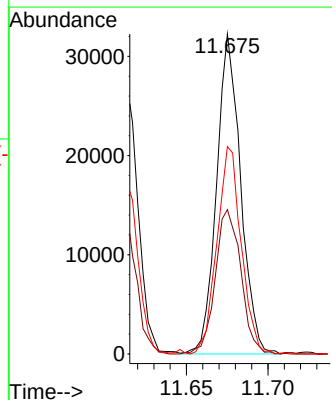
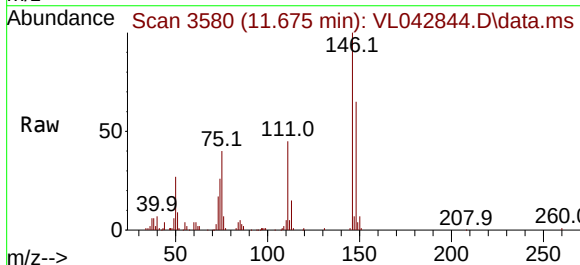
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

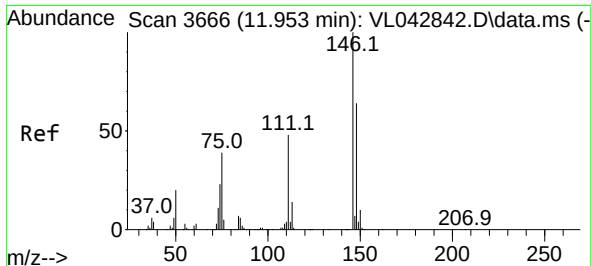
Tgt Ion:146 Resp: 33061
Ion Ratio Lower Upper
146 100
111 48.6 23.9 71.7
148 64.1 31.4 94.0



#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# 3666

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

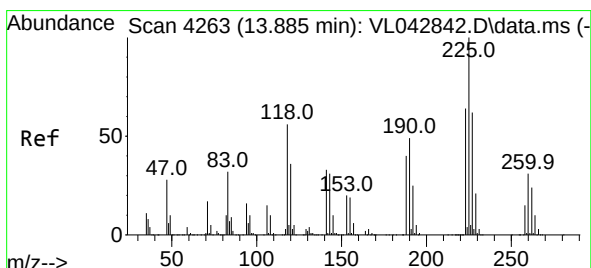
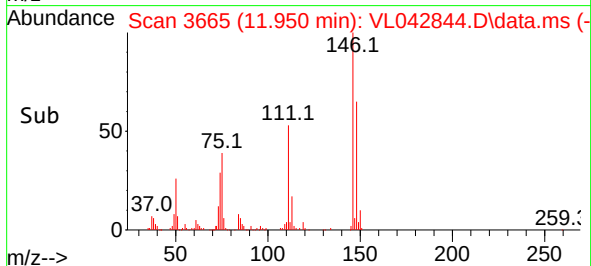
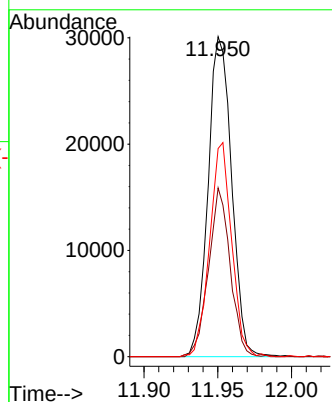
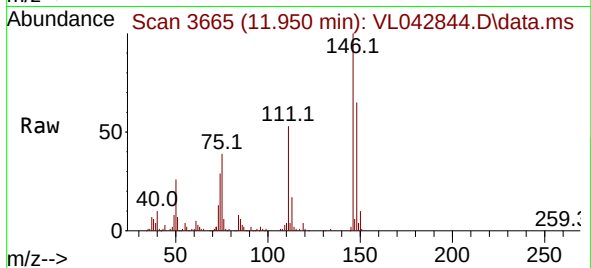
Tgt Ion:146 Resp: 33404

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

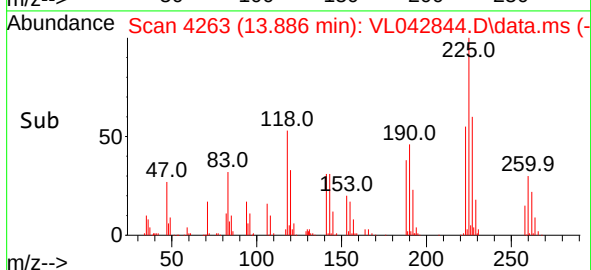
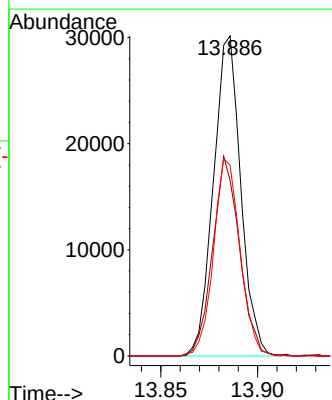
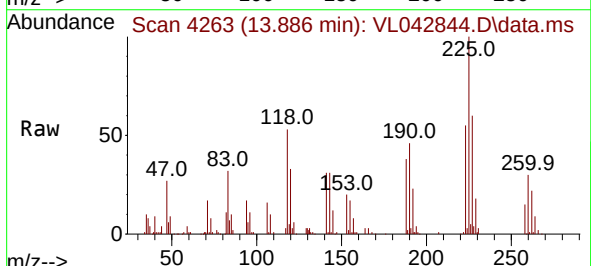
Tgt Ion:225 Resp: 29555

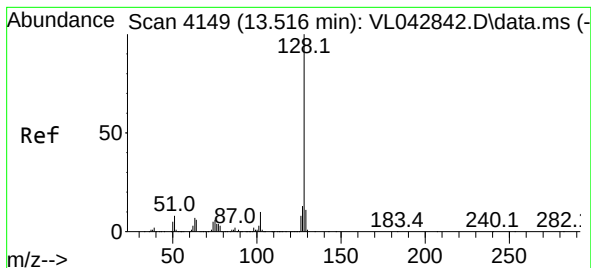
Ion Ratio Lower Upper

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

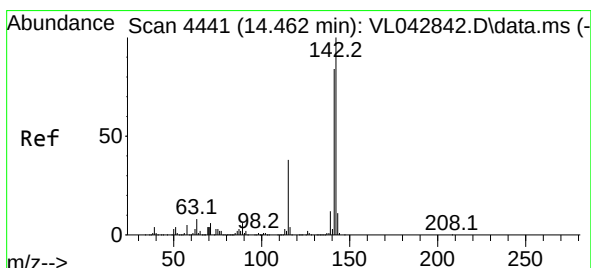
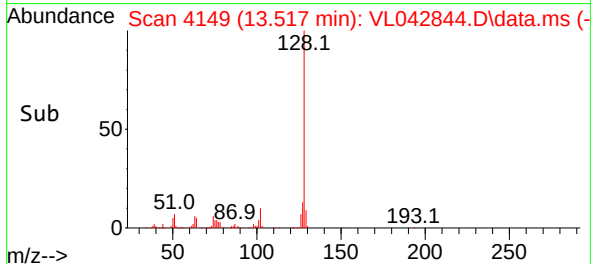
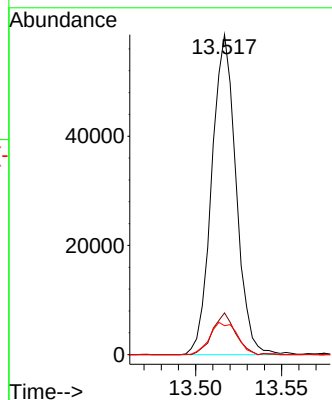
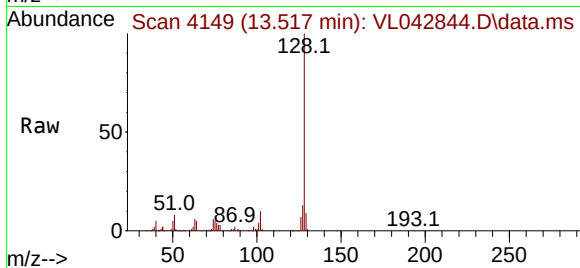
Tgt Ion:128 Resp: 57580

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

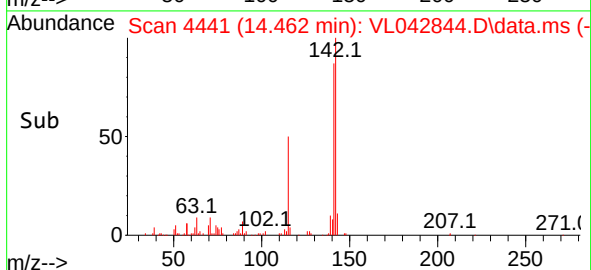
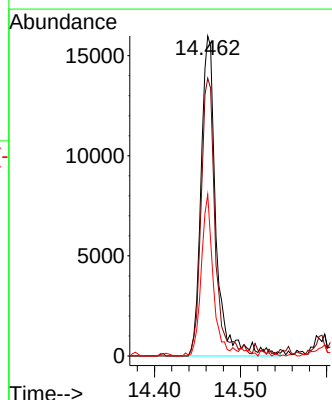
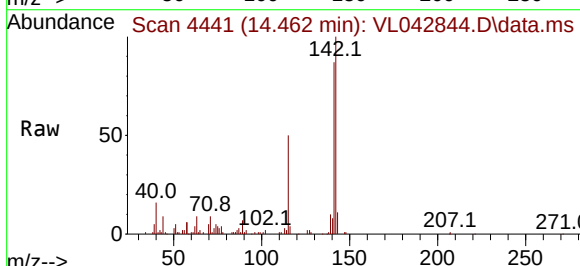
Tgt Ion:142 Resp: 19375

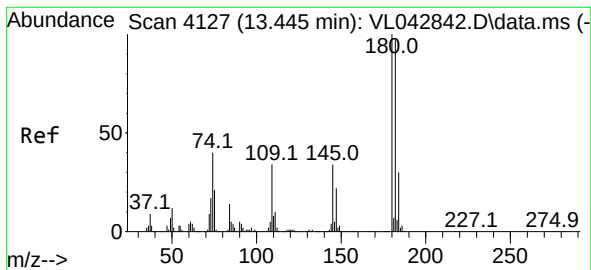
Ion Ratio Lower Upper

142 100

141 81.6 67.0 100.6

115 43.2 30.9 46.3

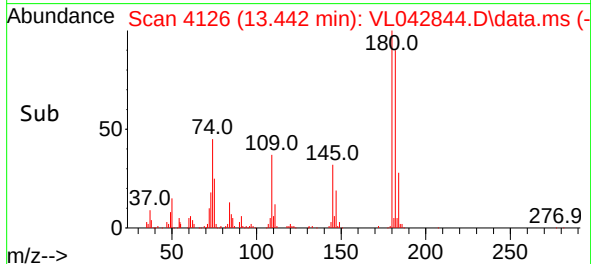
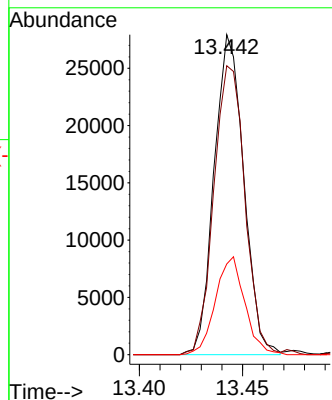
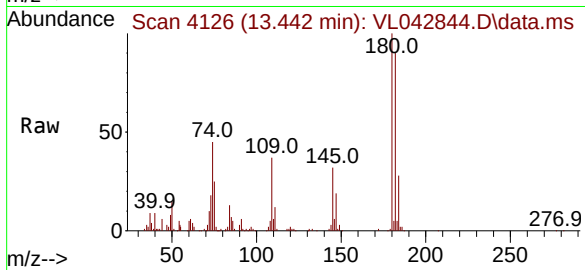




#81
 1,2,4-Trichlorobenzene
 Concen: 1.111 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

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

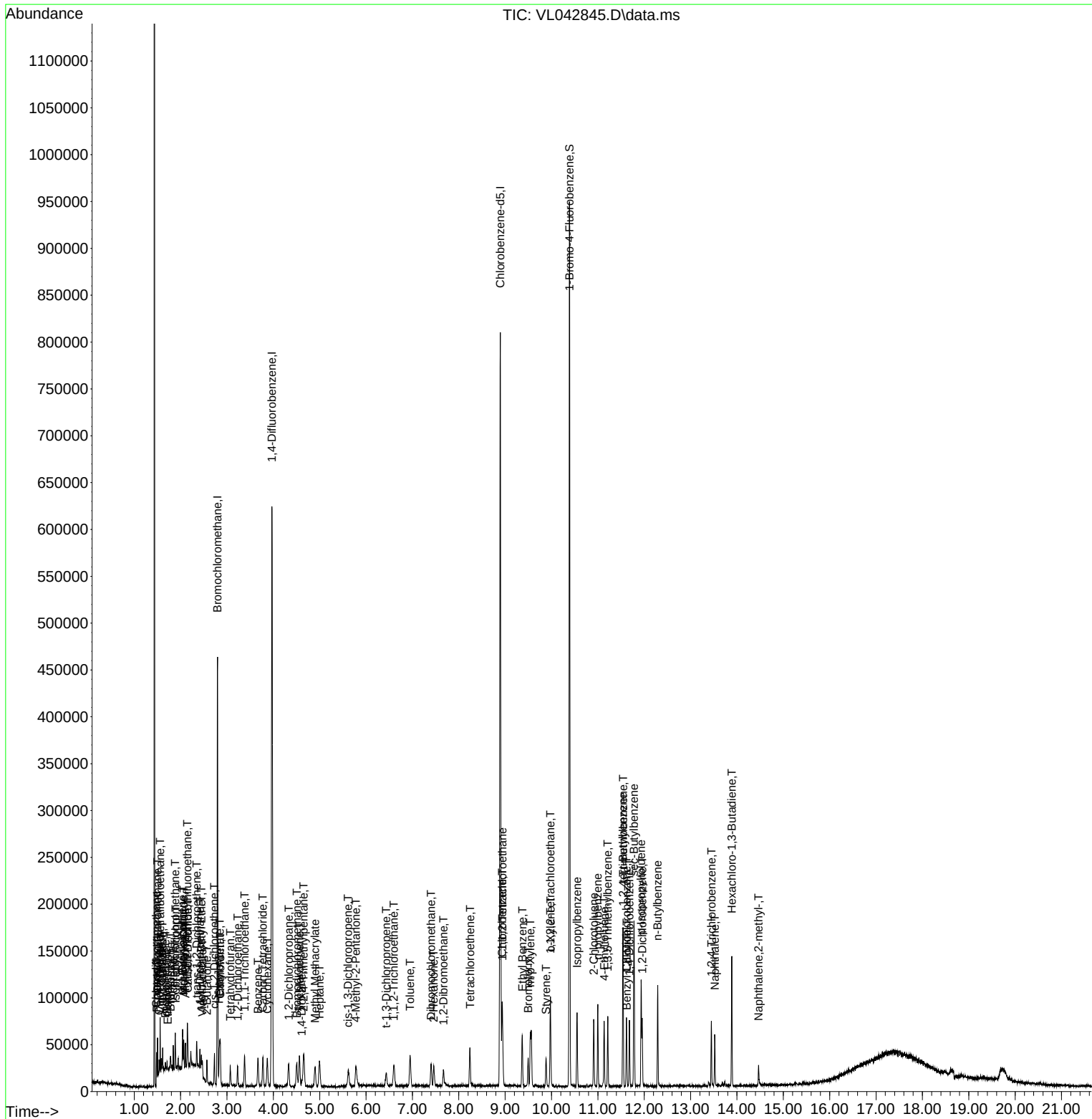
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

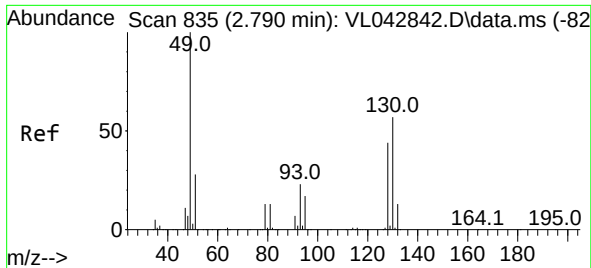
Quant Time: Aug 14 01:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	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

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 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

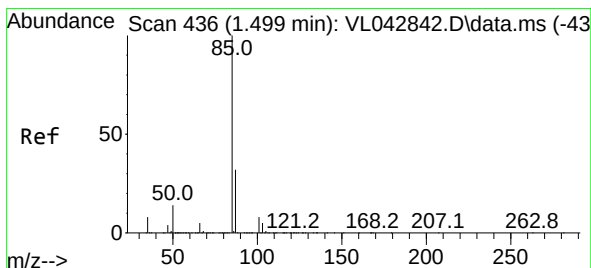
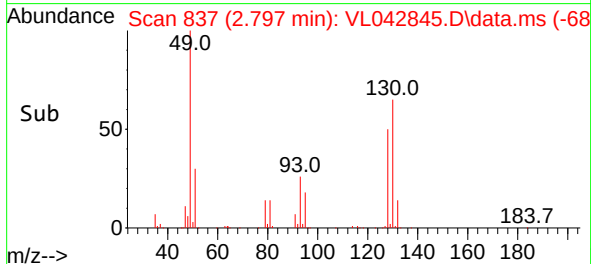
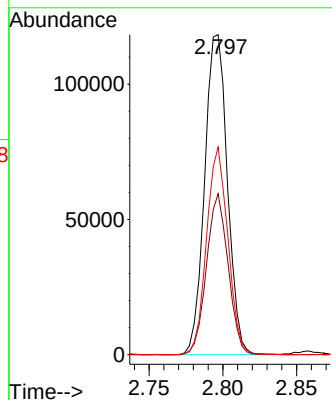
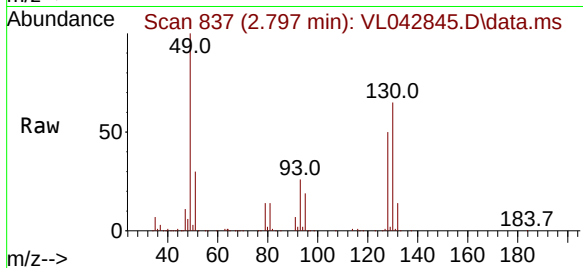




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

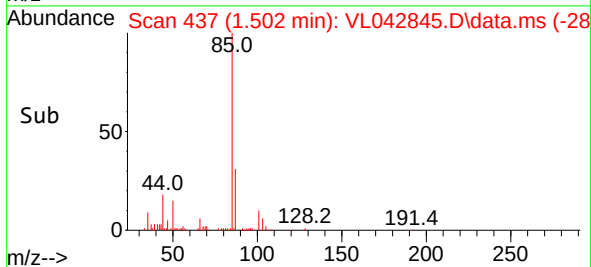
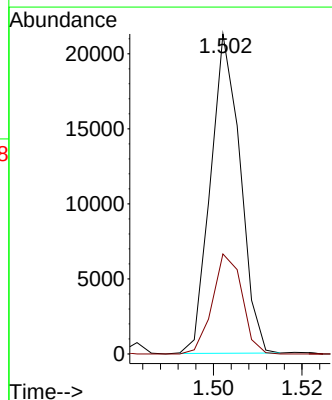
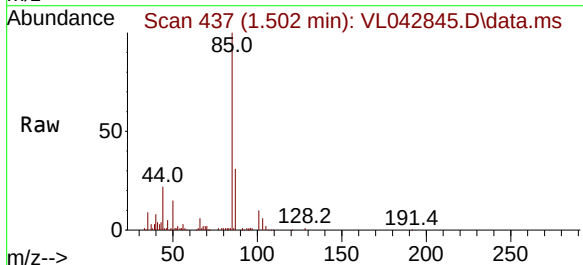
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

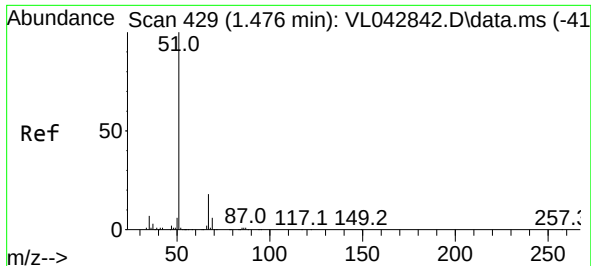
Tgt Ion: 49 Resp: 126879
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 60.9 30.6 91.6



#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

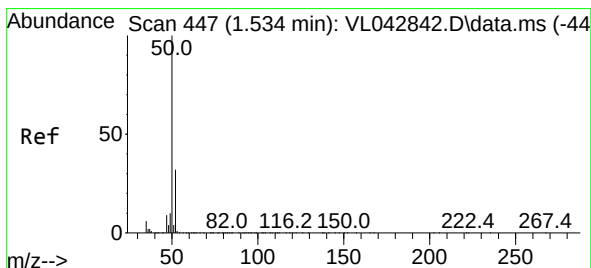
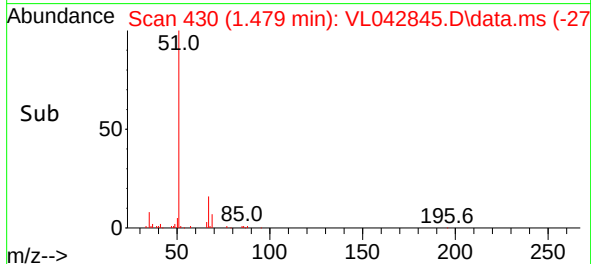
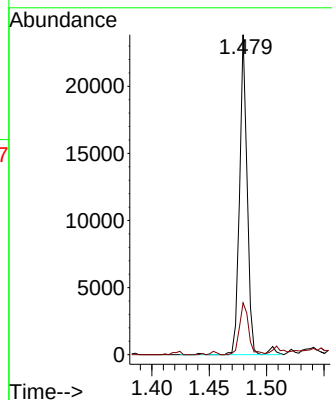
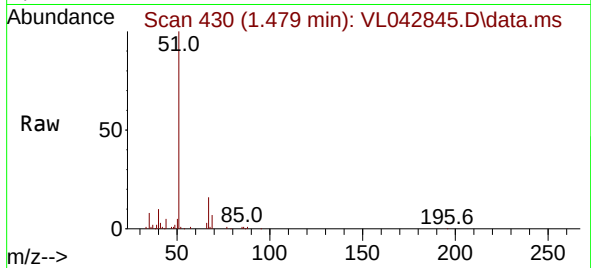




#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

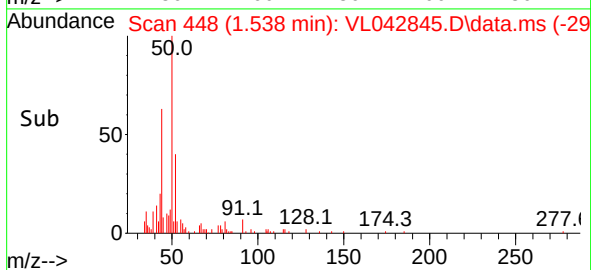
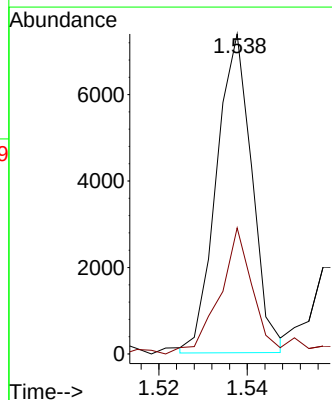
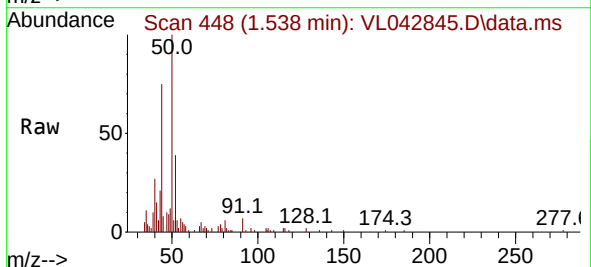
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

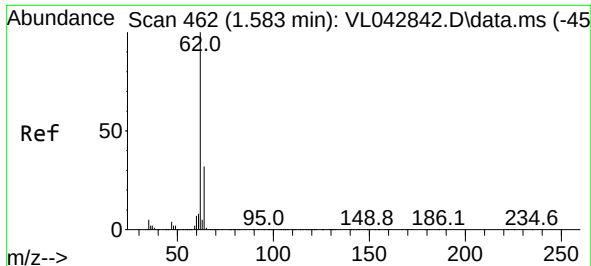
Tgt Ion: 51 Resp: 11115
Ion Ratio Lower Upper
51 100
67 20.5 14.9 22.3



#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

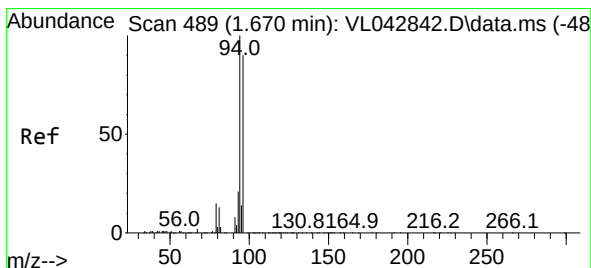
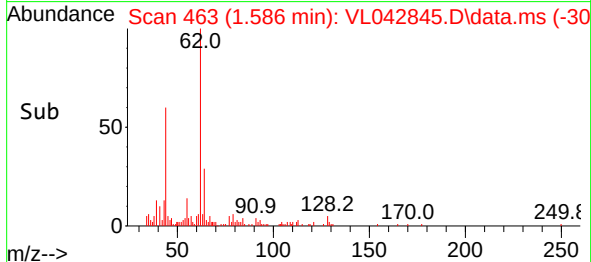
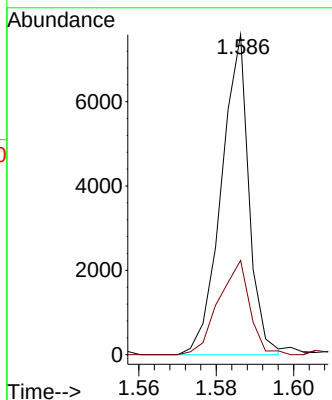
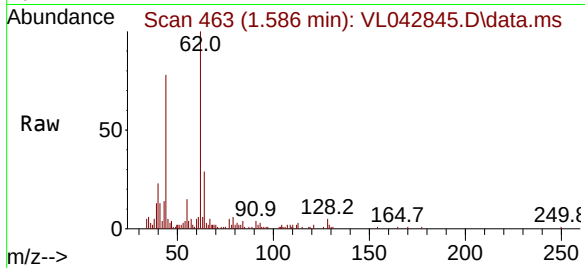




#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.586 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

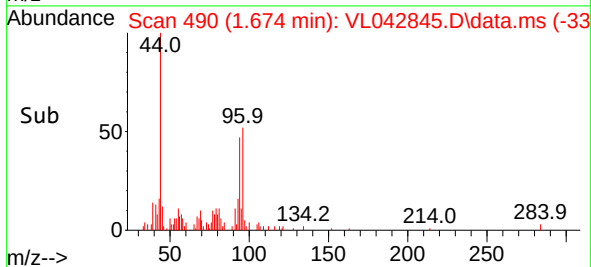
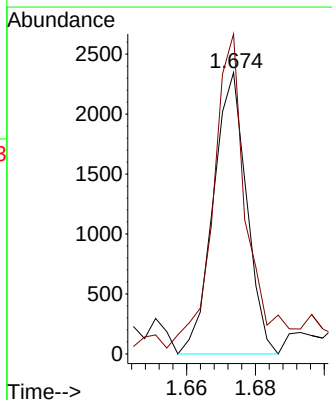
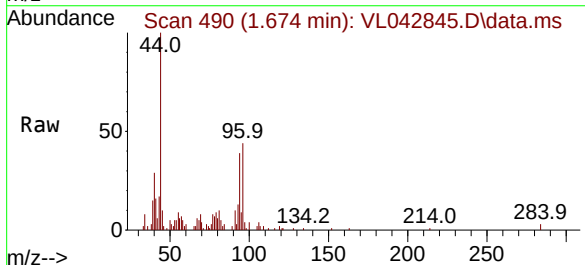
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

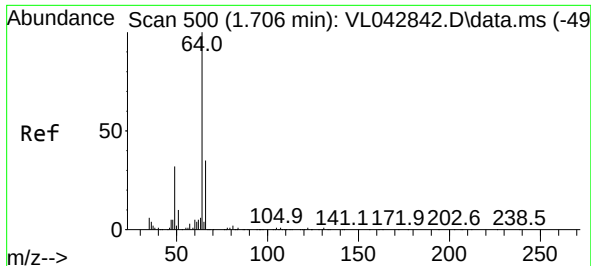
Tgt Ion: 62 Resp: 3762
 Ion Ratio Lower Upper
 62 100
 64 28.3 25.4 38.2



#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

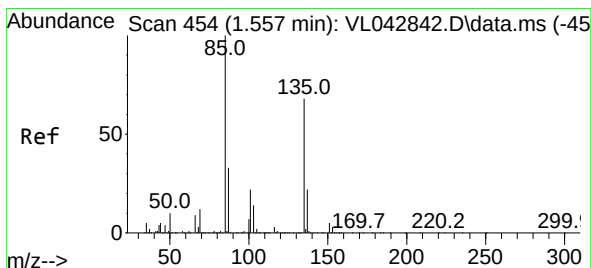
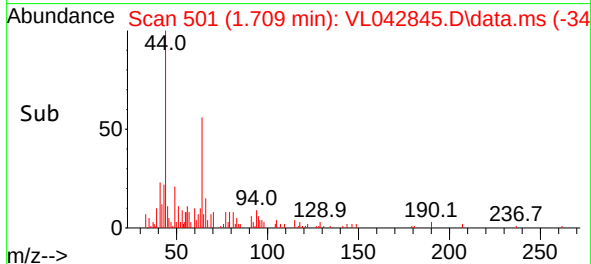
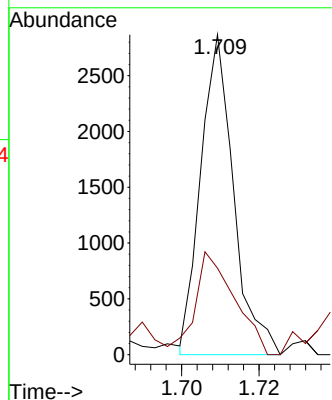
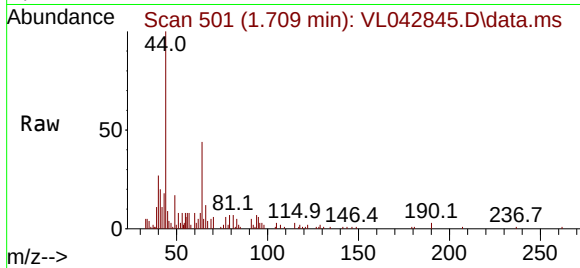




#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

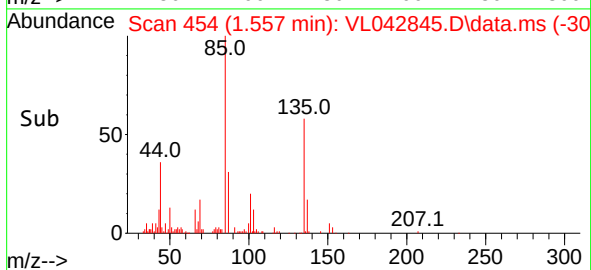
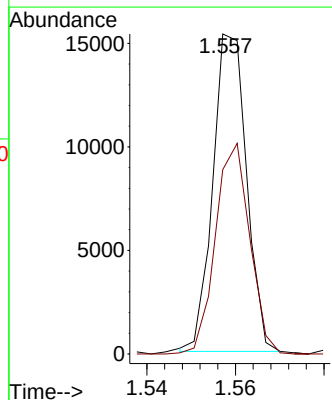
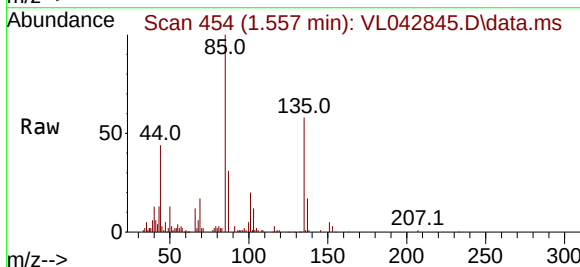
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

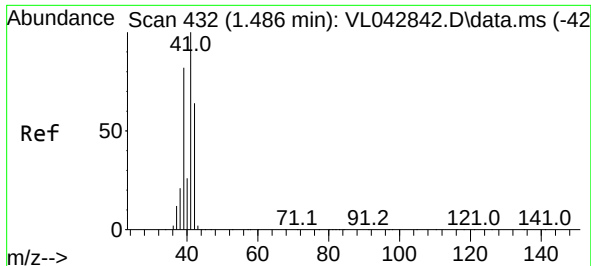
Tgt Ion: 64 Resp: 1690
Ion Ratio Lower Upper
64 100
66 27.0 28.6 42.8#



#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 :

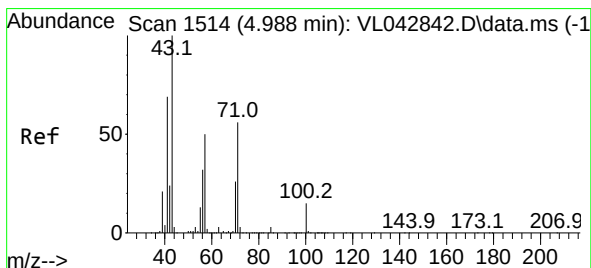
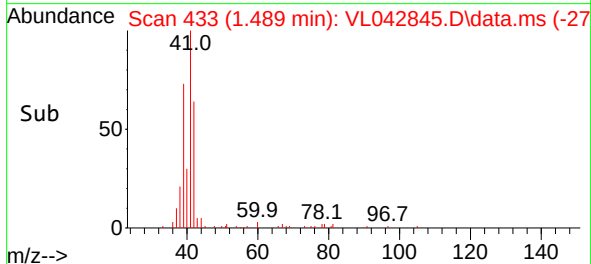
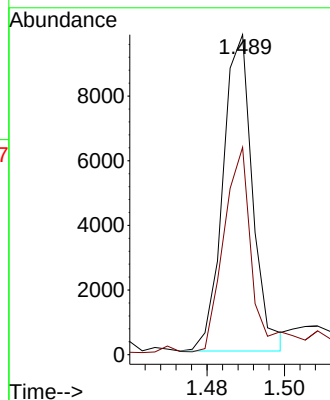
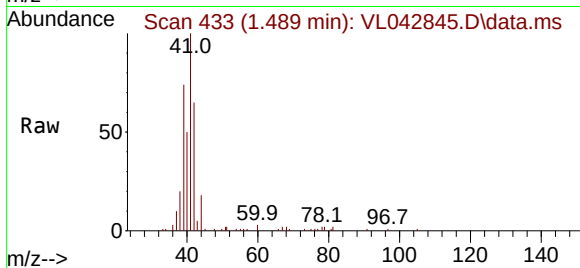
VSTDIC0.5

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

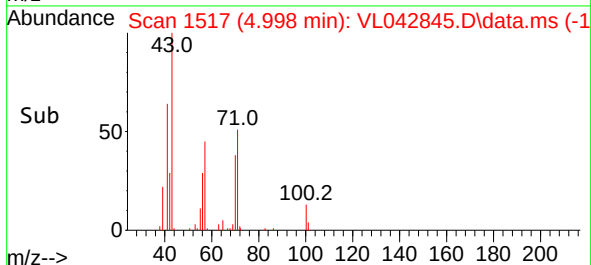
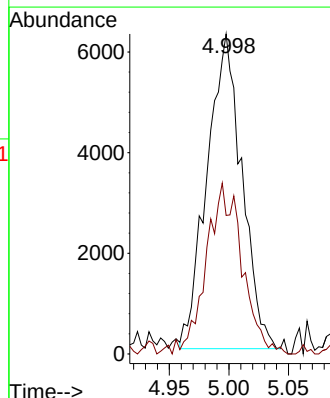
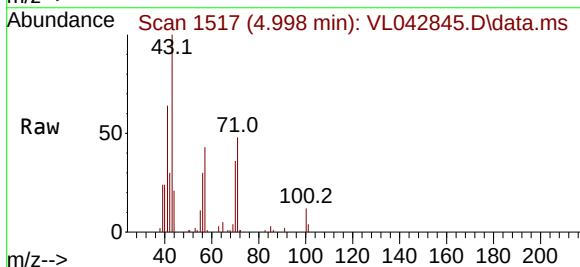
Acq: 13 Aug 2025 10:17

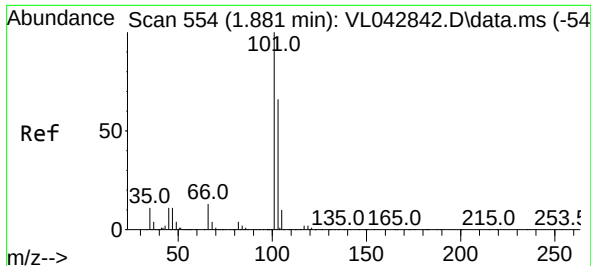
Tgt Ion: 43 Resp: 12747

Ion Ratio Lower Upper

43 100

57 56.9 41.4 62.0





#11

Trichlorofluoromethane

Concen: 0.558 ppbv

RT: 1.884 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

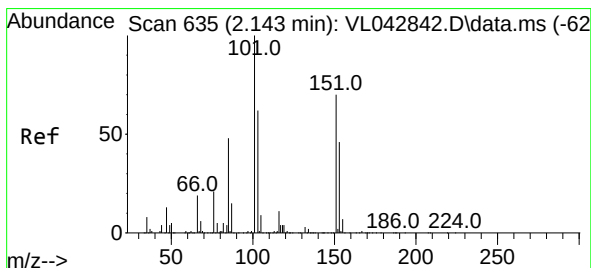
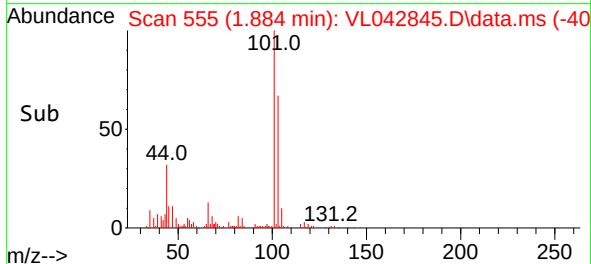
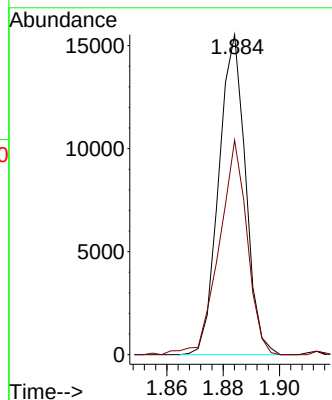
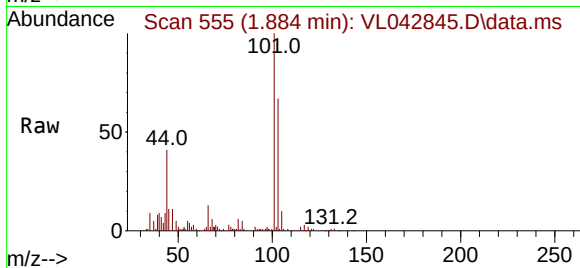
VSTDIC0.5

Tgt Ion: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

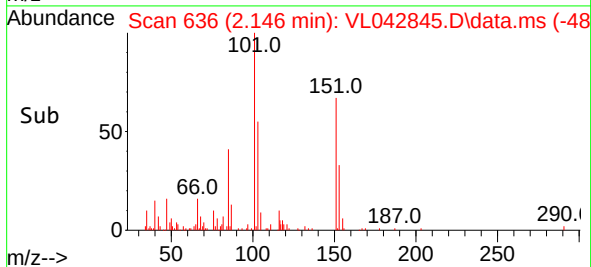
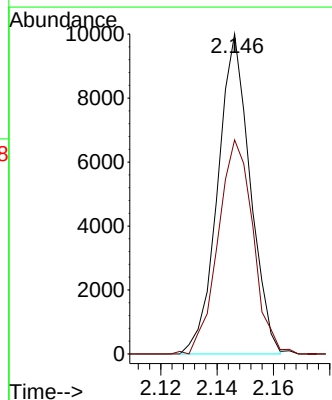
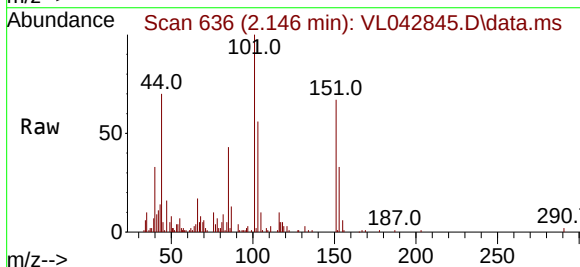
Acq: 13 Aug 2025 10:17

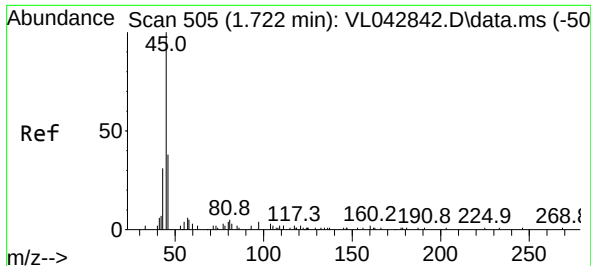
Tgt Ion:101 Resp: 7984

Ion Ratio Lower Upper

101 100

151 72.3 56.4 84.6

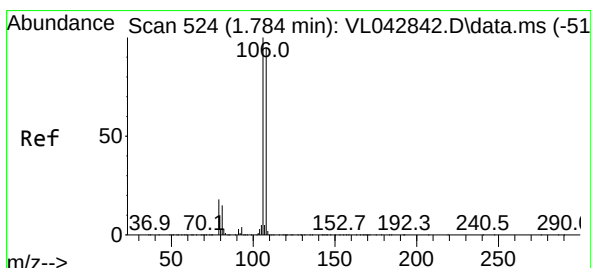
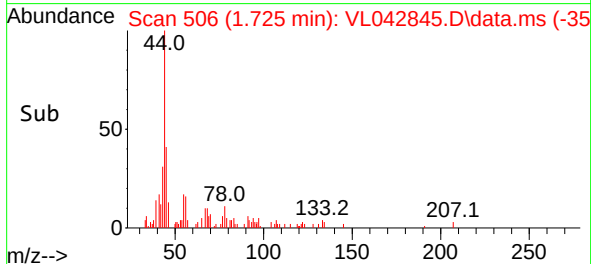
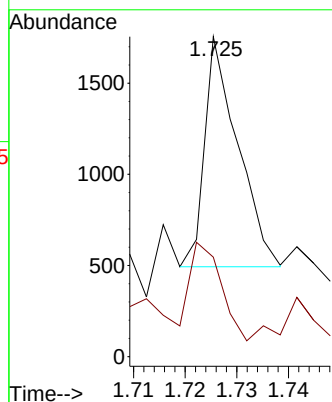
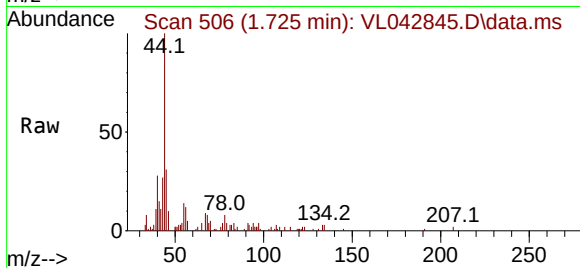




#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

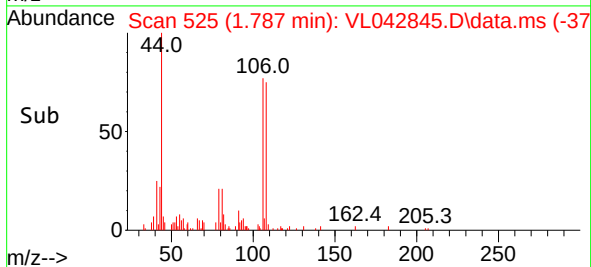
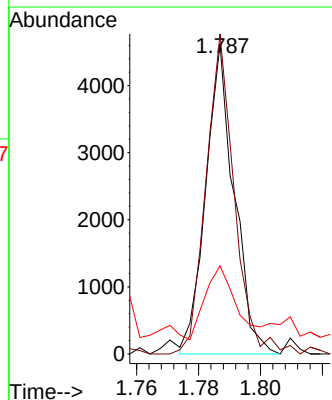
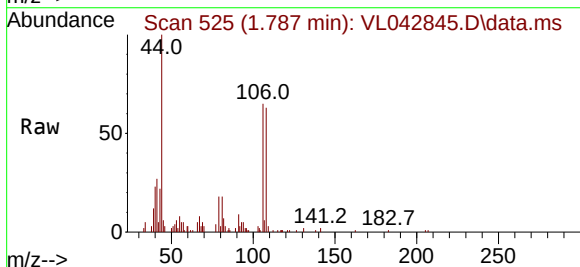
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

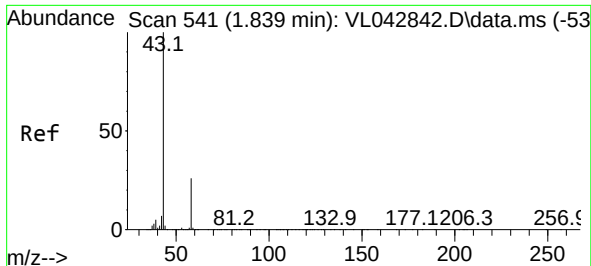
Tgt Ion: 45 Resp: 562
Ion Ratio Lower Upper
45 100
46 131.5 17.5 69.9#



#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#

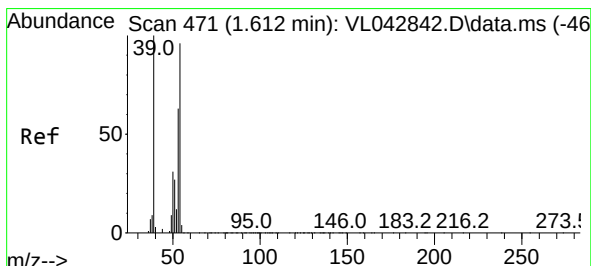
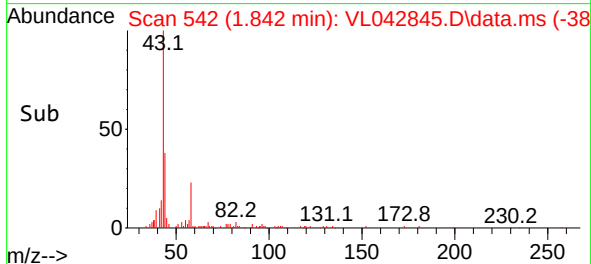
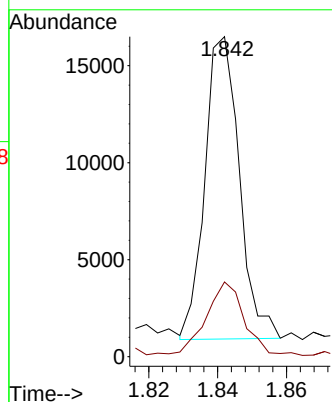
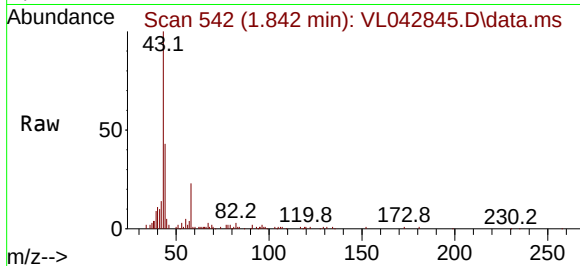




#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

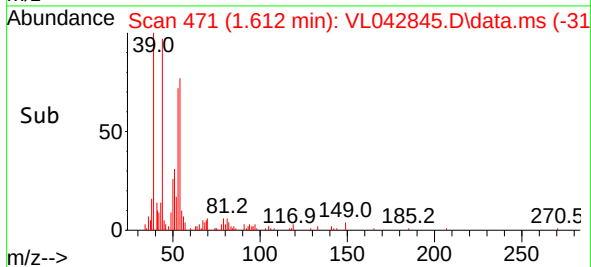
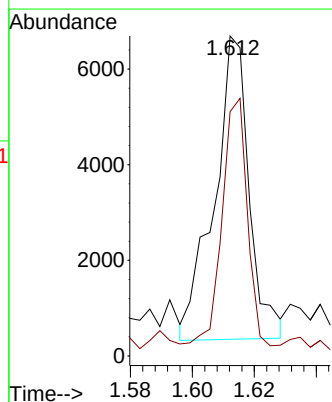
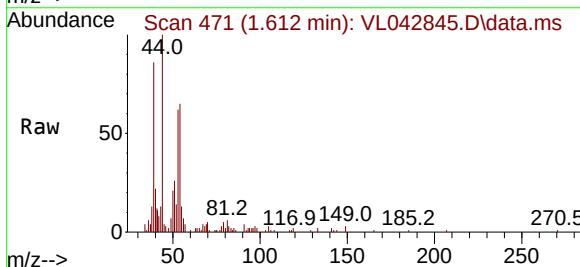
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

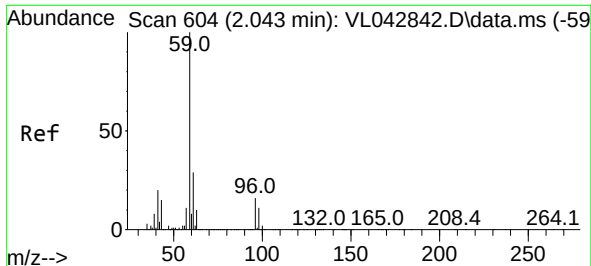
Tgt Ion: 43 Resp: 10836
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6



#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

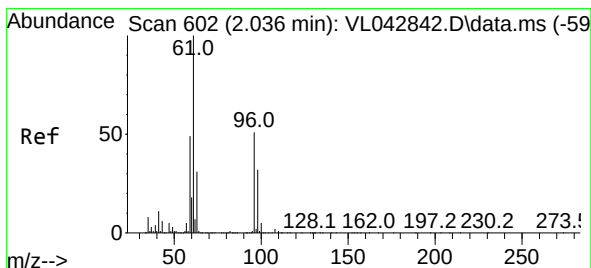
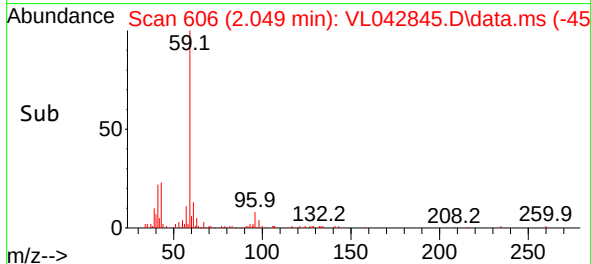
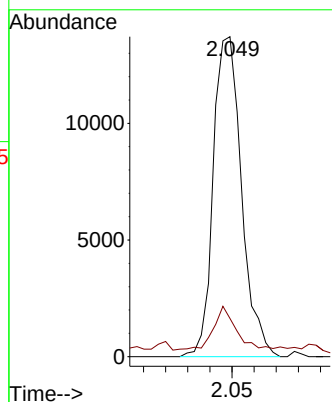
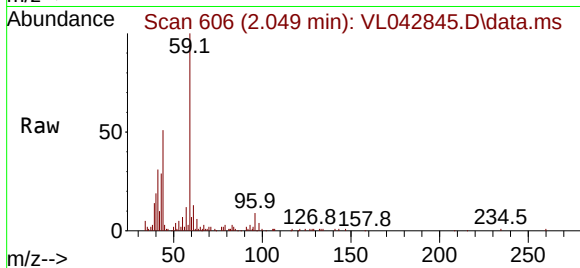




#17
tert-Butyl alcohol
Concen: 0.612 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

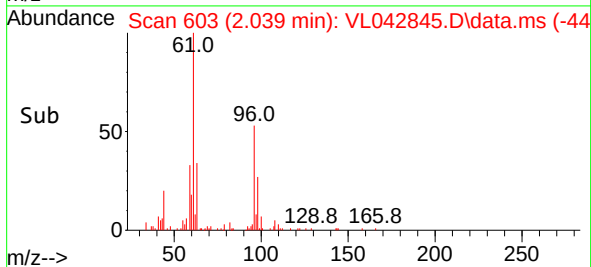
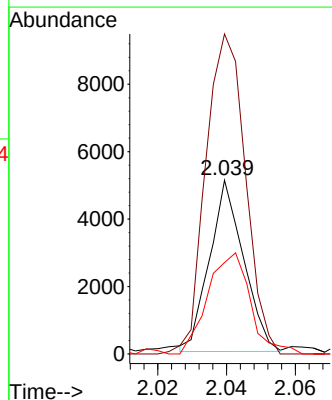
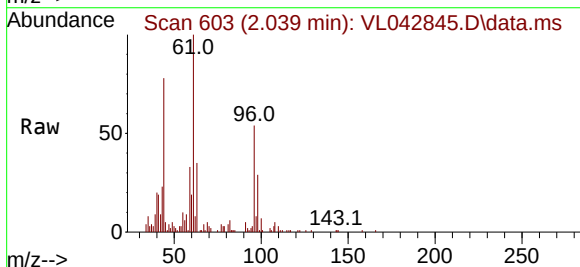
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

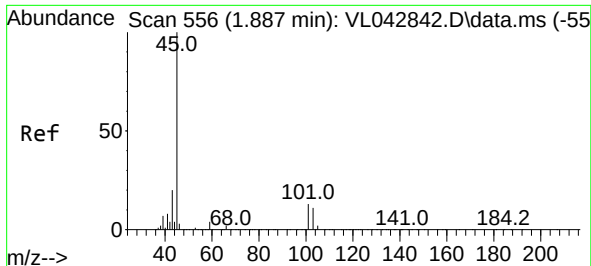
Tgt Ion: 59 Resp: 12182
Ion Ratio Lower Upper
59 100
57 15.3 9.0 13.4#



#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

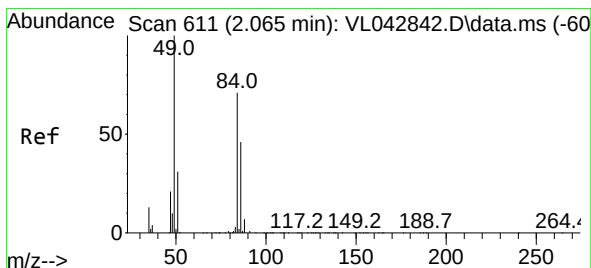
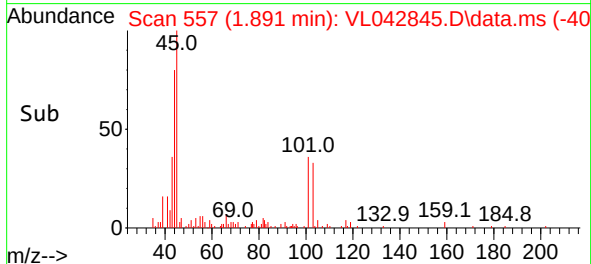
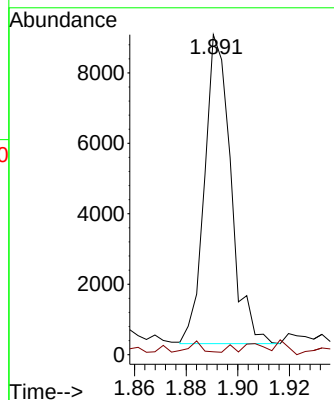
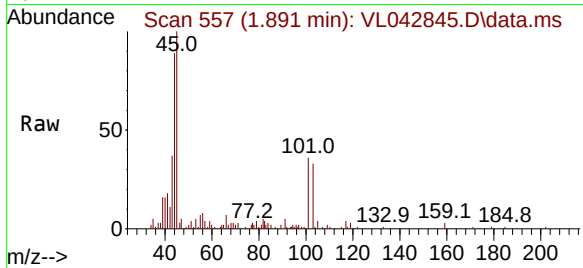




#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 519
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

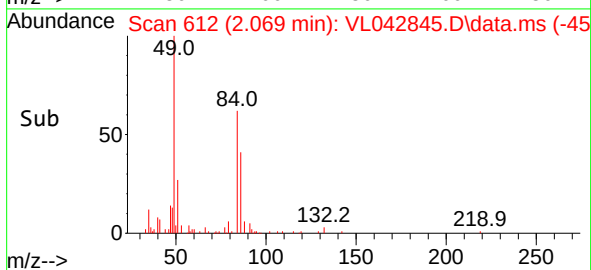
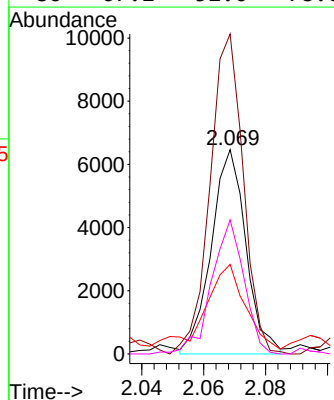
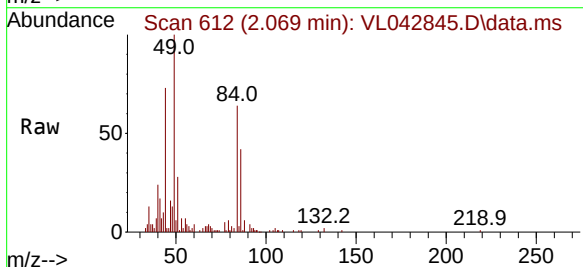
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

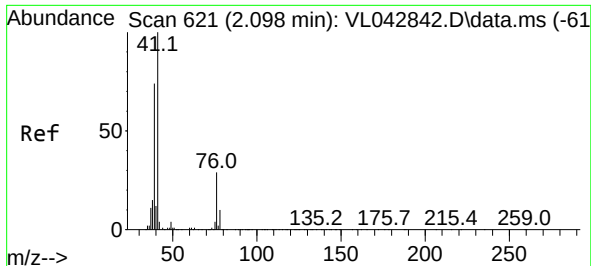
Tgt Ion: 45 Resp: 6194
Ion Ratio Lower Upper
45 100
58 13.3 32.7 49.1#



#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

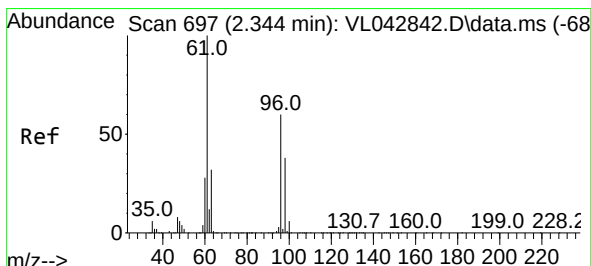
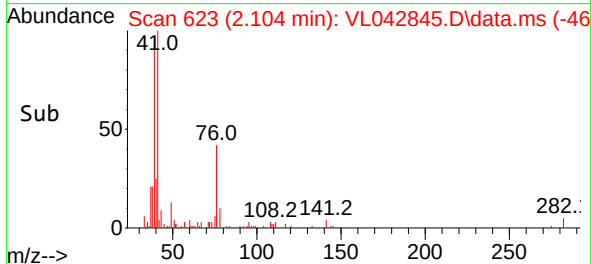
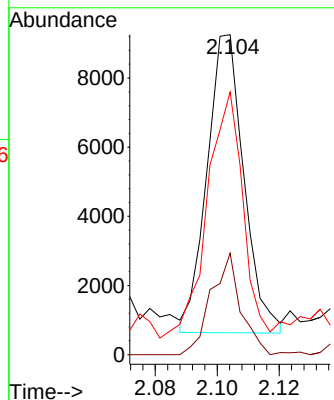
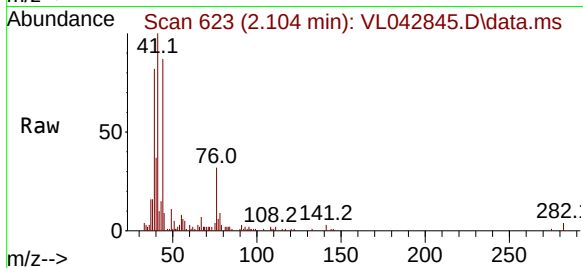




#21
 Allyl Chloride
 Concen: 0.600 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

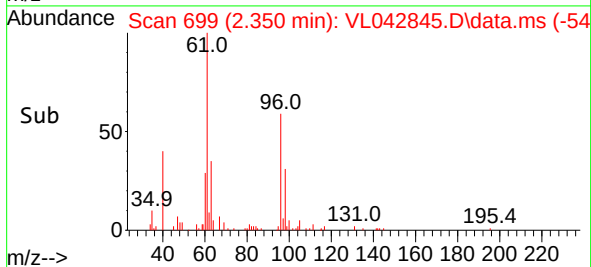
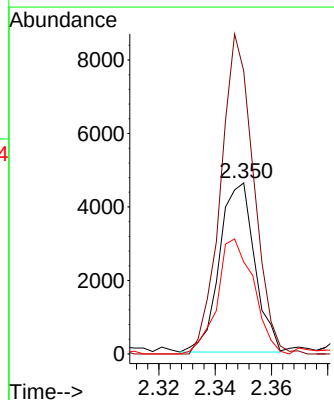
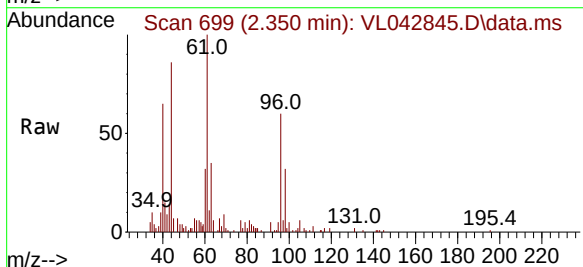
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

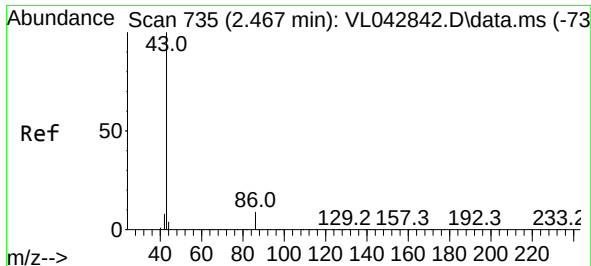
Tgt Ion: 41 Resp: 7120
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.9 35.9
 39 98.9 57.8 86.6#



#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

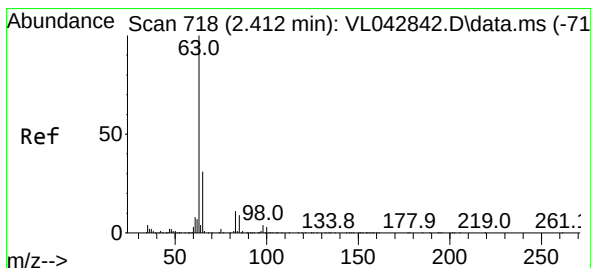
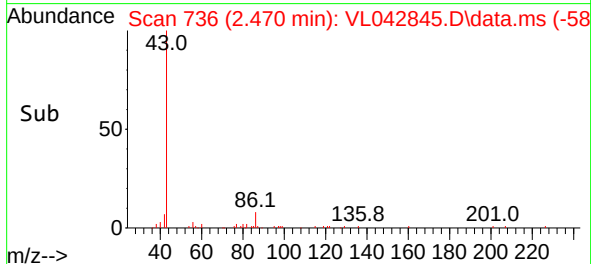
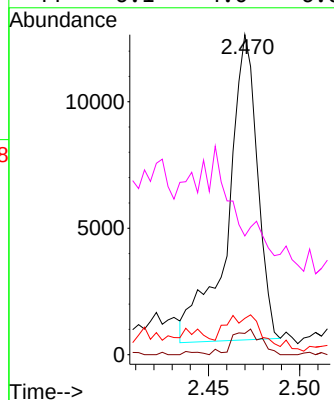
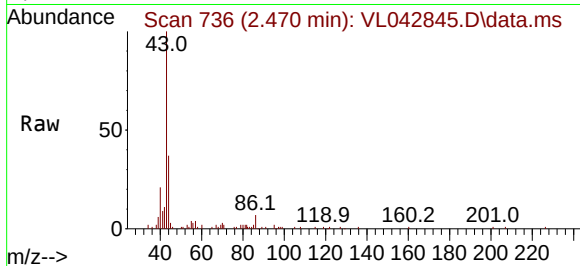




#23
 Vinyl Acetate
 Concen: 0.621 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

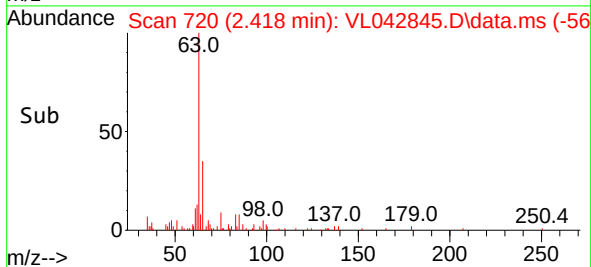
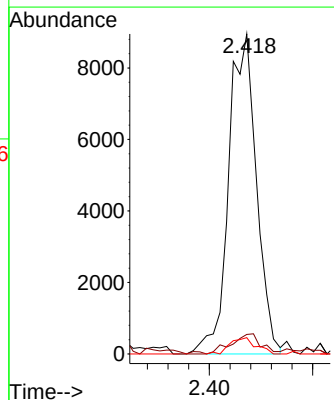
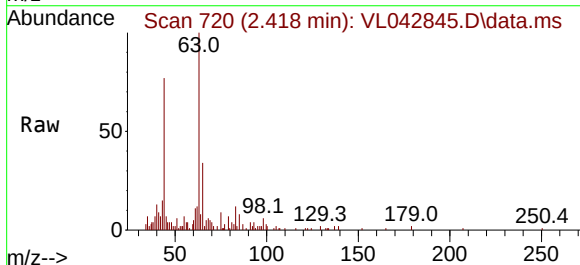
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

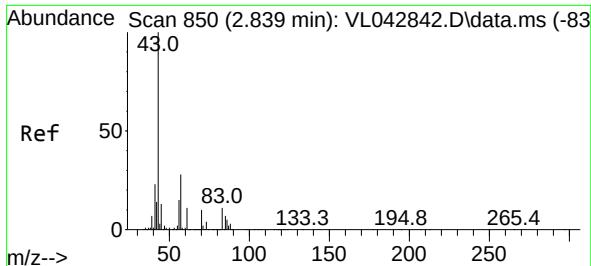
Tgt Ion:	43	Resp:	13709
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.6	9.8
42	9.3	7.0	10.6
44	6.1	4.0	6.0



#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

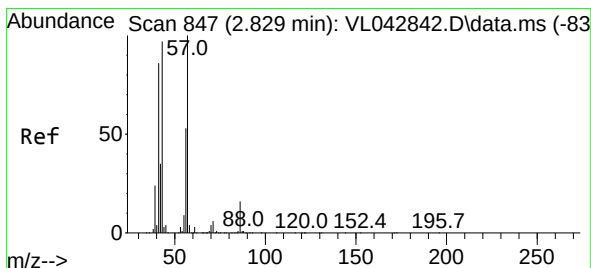
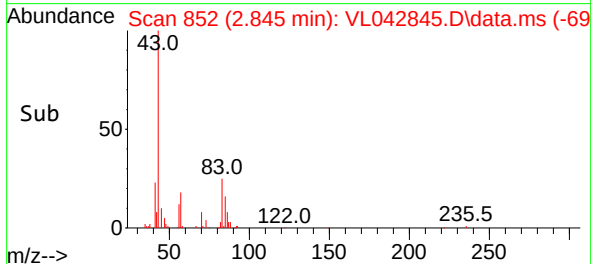
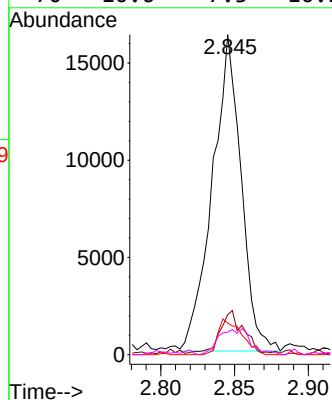
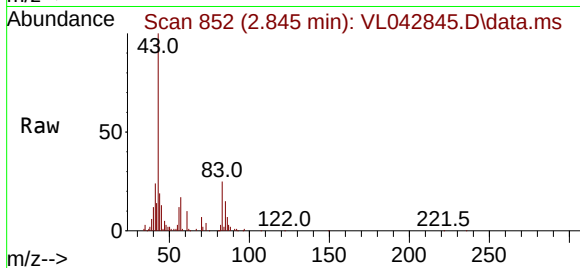




#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

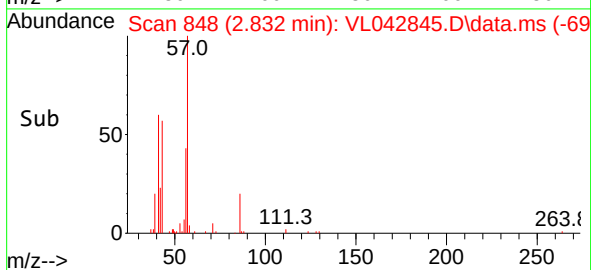
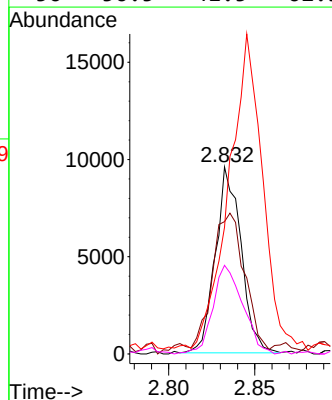
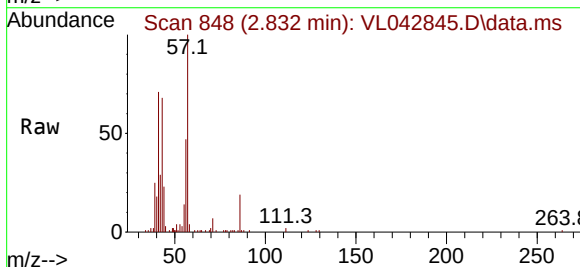
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

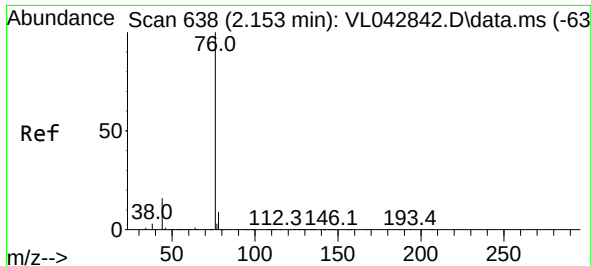
Tgt Ion:	43	Resp:	22148
Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.1	12.1#
61	9.4	7.4	11.2
70	10.6	7.3	10.9



#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

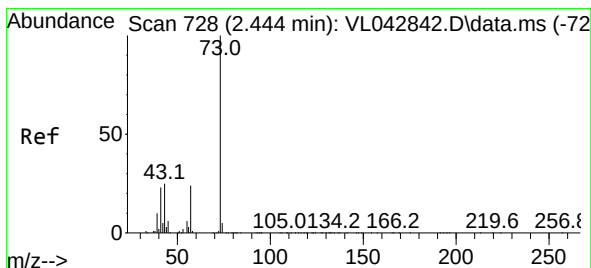
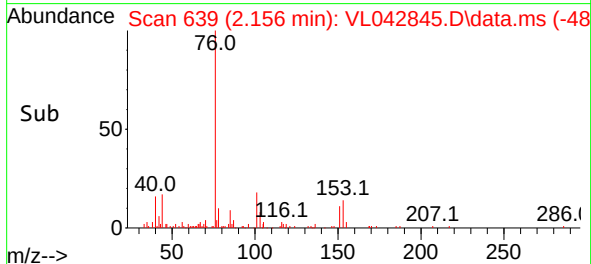
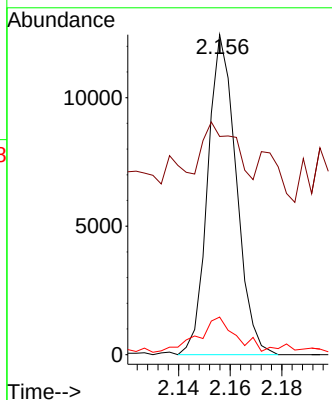
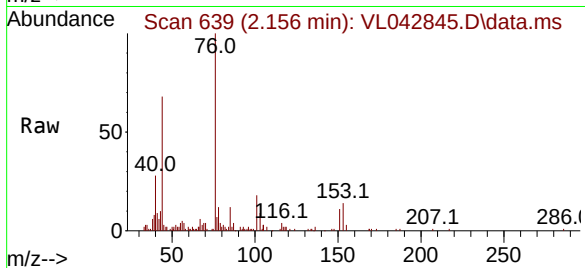




#27
Carbon Disulfide
Concen: 0.523 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

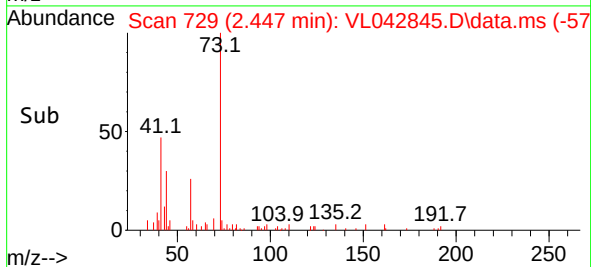
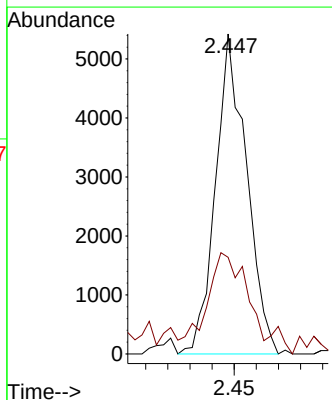
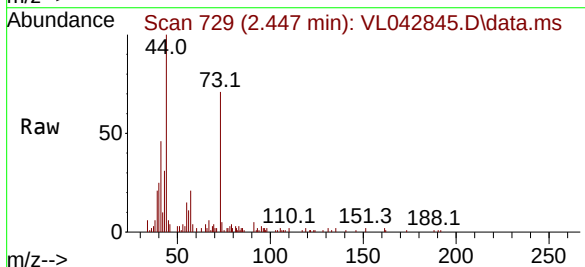
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

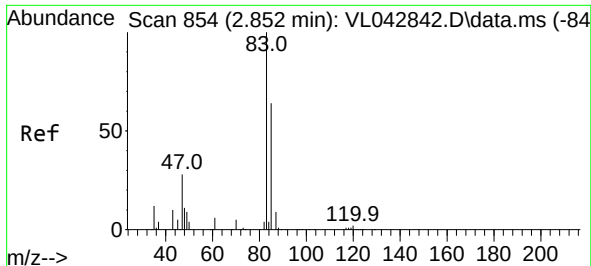
Tgt Ion: 76 Resp: 9539
Ion Ratio Lower Upper
76 100
44 136.8 15.9 23.9#
78 22.2 9.5 14.3#



#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_L

ClientSampleId :

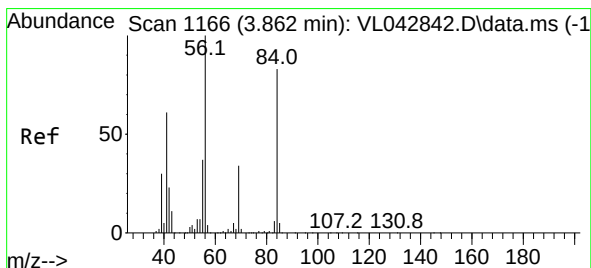
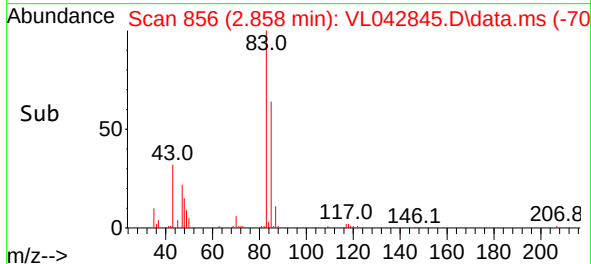
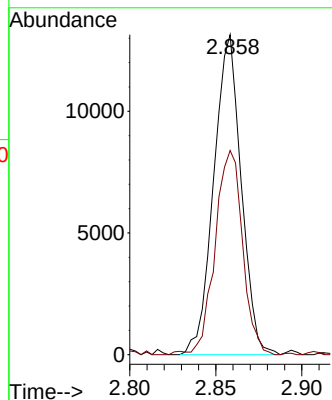
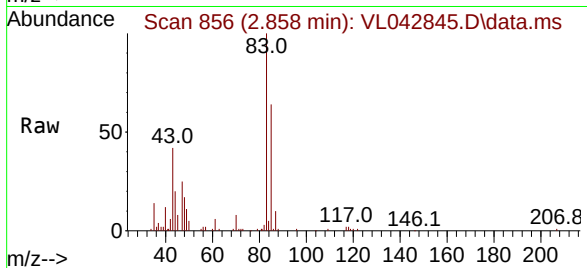
VSTDICC0.5

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

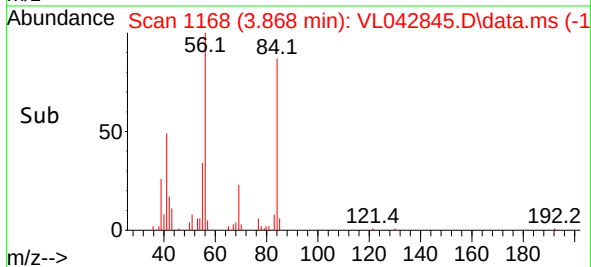
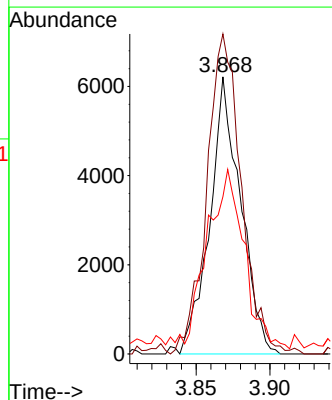
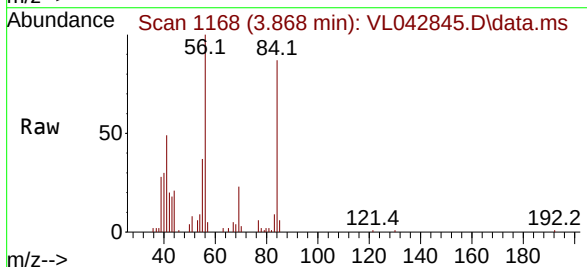
Tgt Ion: 84 Resp: 9037

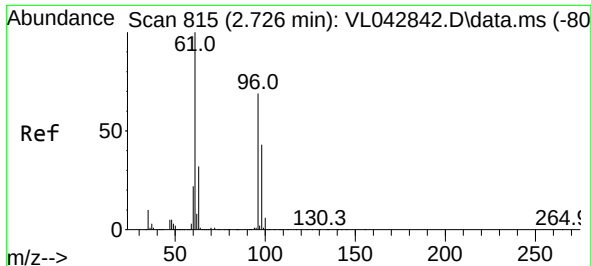
Ion Ratio Lower Upper

84 100

56 131.1 98.8 148.2

41 80.1 61.3 91.9

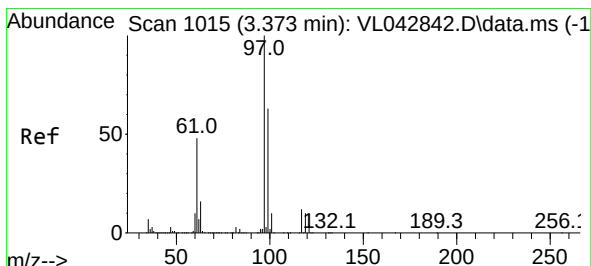
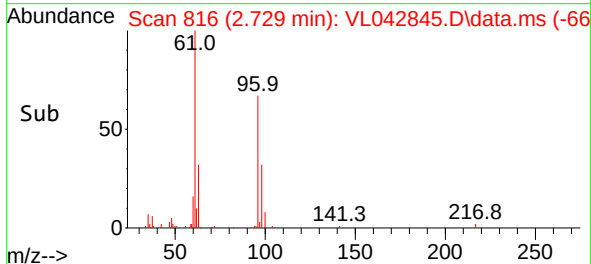
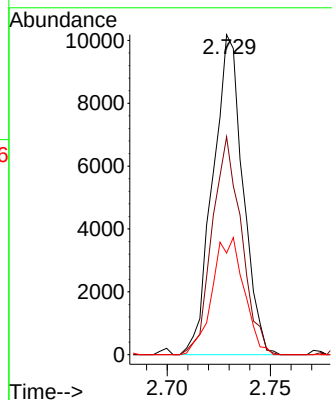
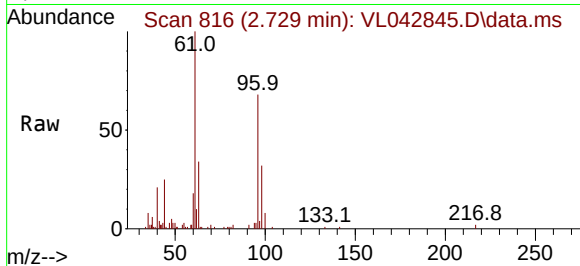




#31
 cis-1,2-Dichloroethene
 Concen: 0.550 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

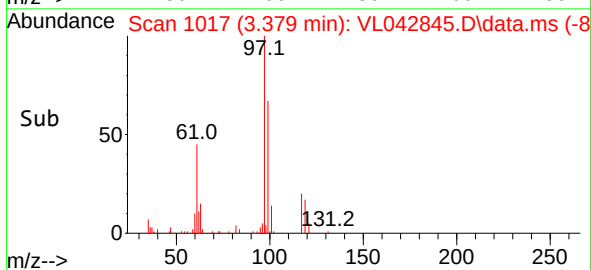
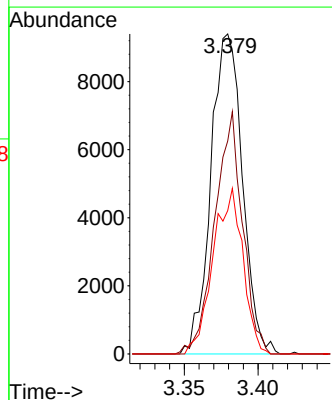
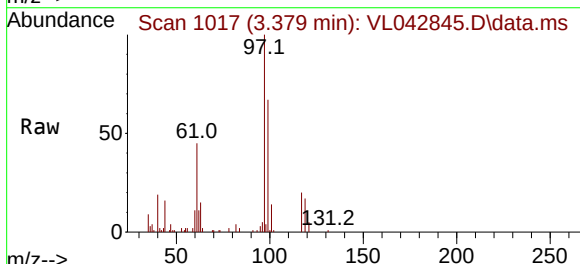
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

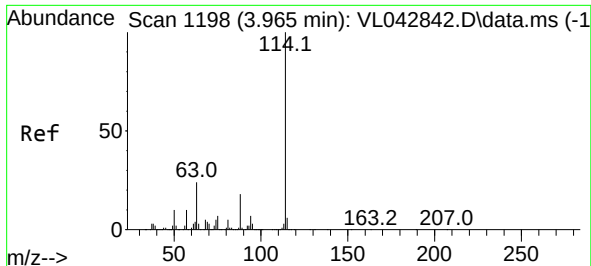
Tgt Ion: 61 Resp: 10308
 Ion Ratio Lower Upper
 61 100
 96 61.7 55.0 82.6
 98 28.7 34.3 51.5#



#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

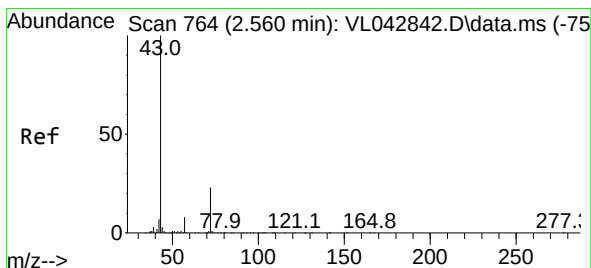
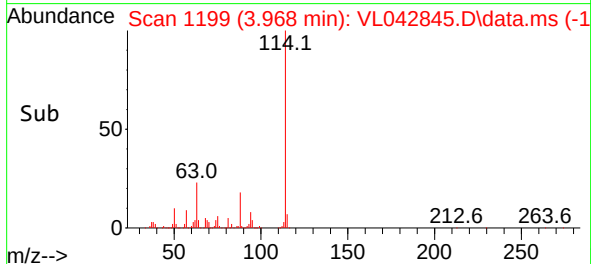
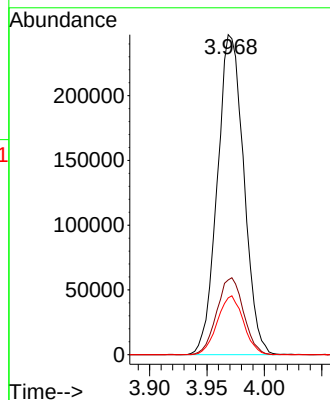
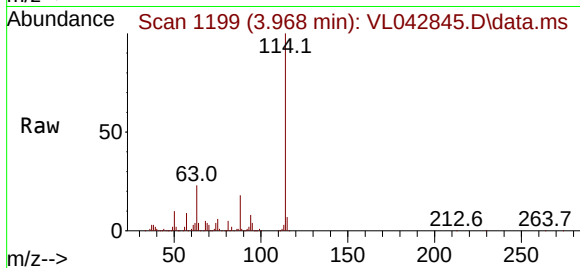
Tgt Ion:114 Resp: 396264

Ion Ratio Lower Upper

114 100

63 24.3 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.558 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042845.D

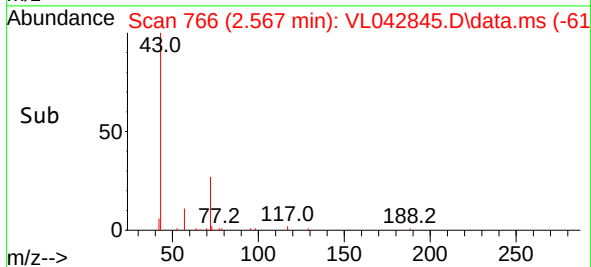
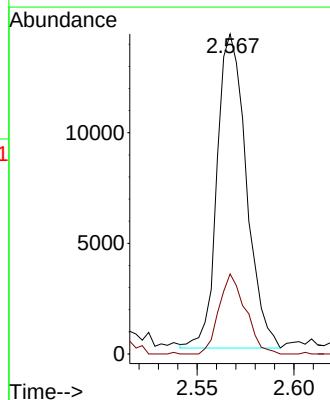
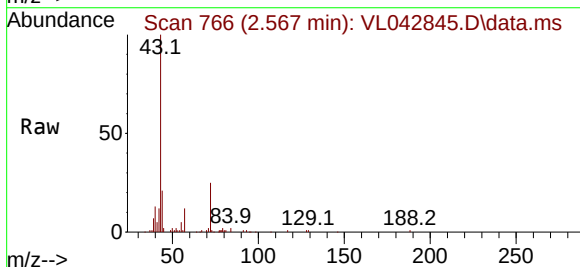
Acq: 13 Aug 2025 10:17

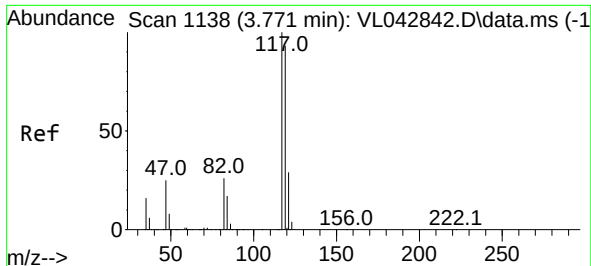
Tgt Ion: 43 Resp: 14923

Ion Ratio Lower Upper

43 100

72 23.3 18.6 28.0

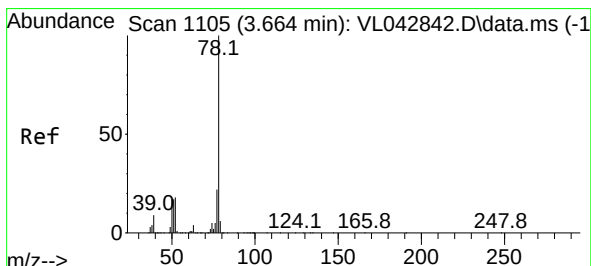
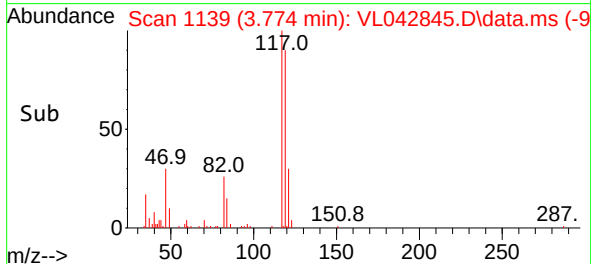
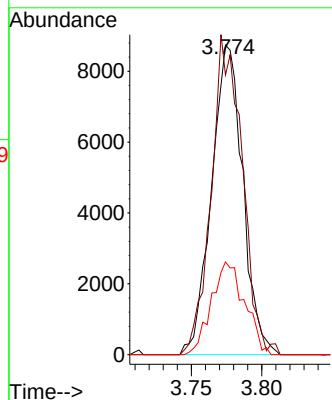
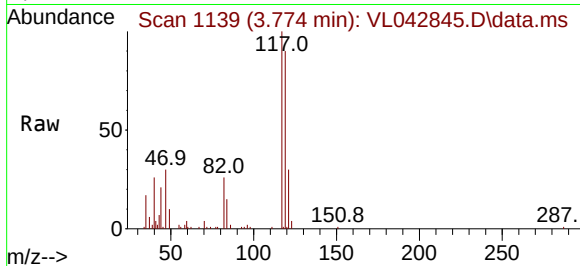




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

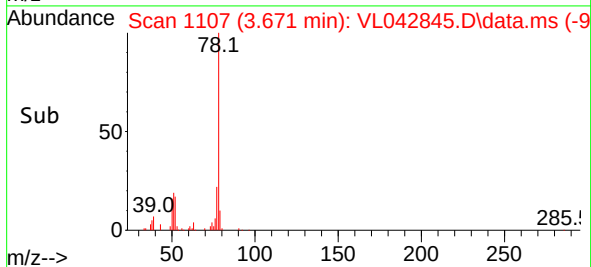
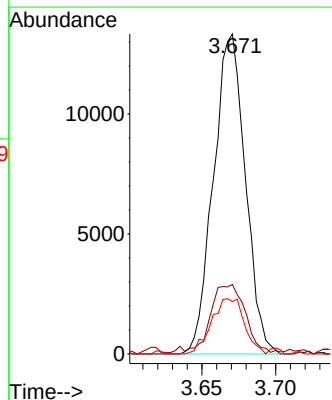
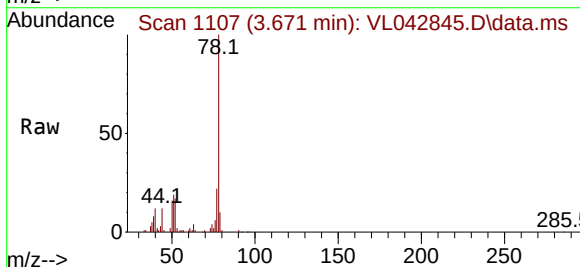
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

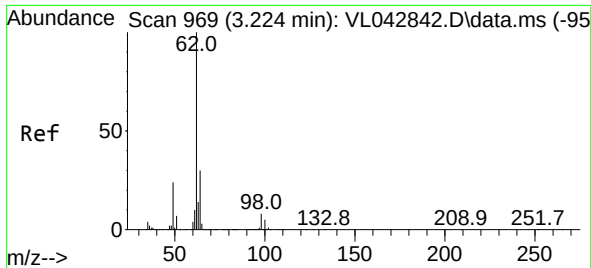
Tgt Ion:117 Resp: 13507
Ion Ratio Lower Upper
117 100
119 90.3 74.7 112.1
121 30.0 23.2 34.8



#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

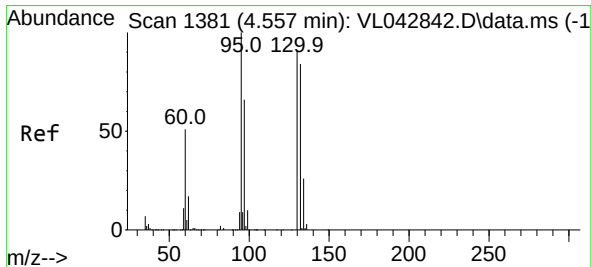
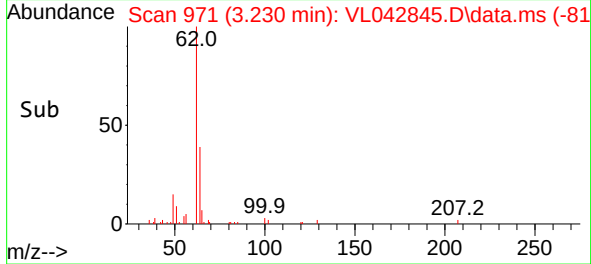
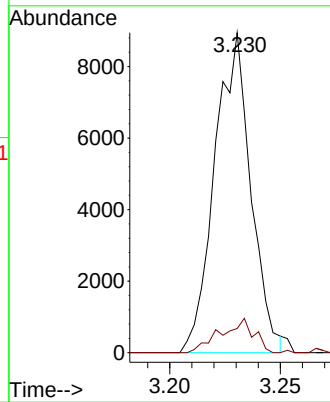
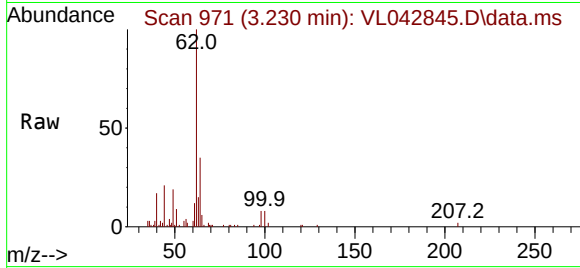




#37
1,2-Dichloroethane
Concen: 0.512 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

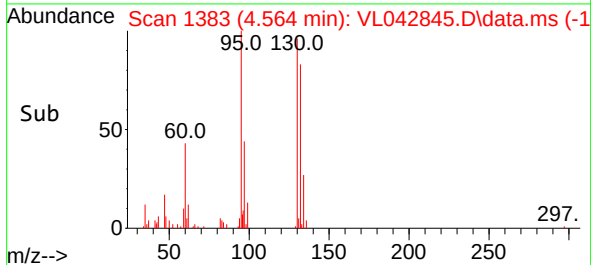
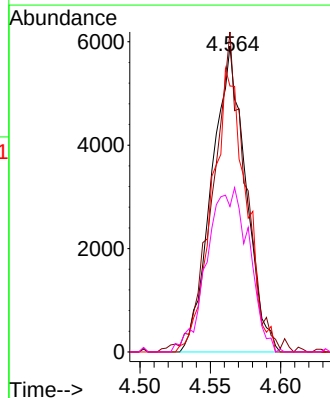
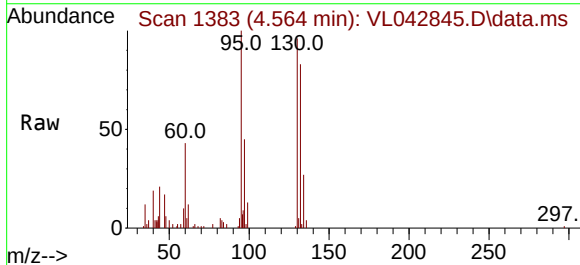
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

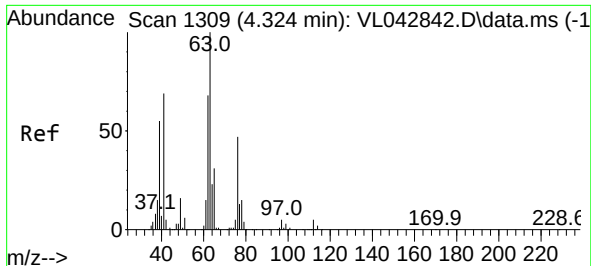
Tgt Ion: 62 Resp: 10141
Ion Ratio Lower Upper
62 100
98 10.0 5.9 8.9#



#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

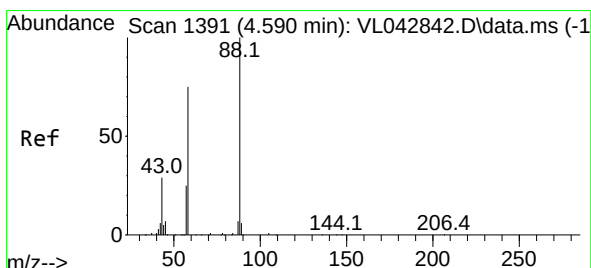
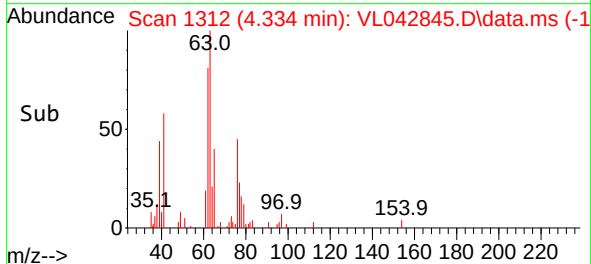
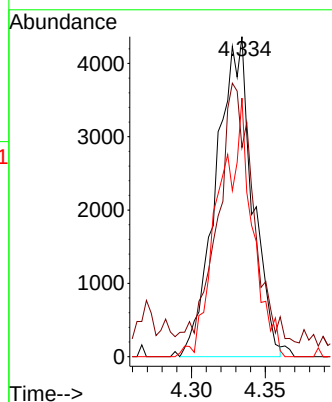
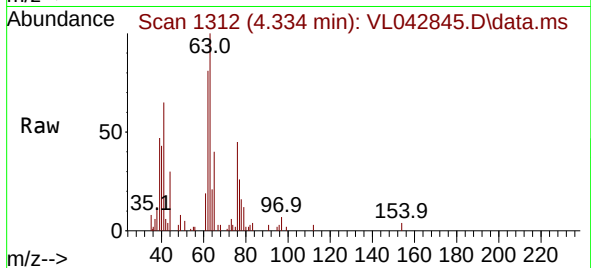
Tgt Ion: 63 Resp: 7491

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

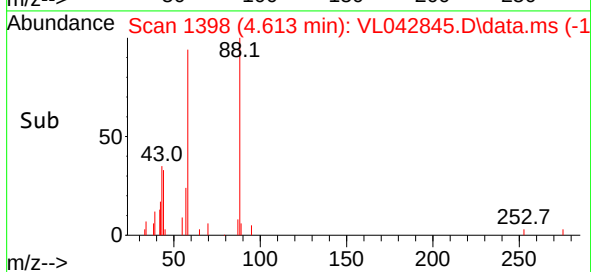
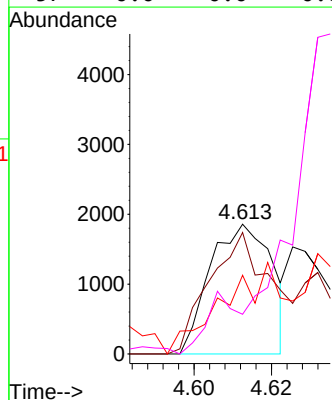
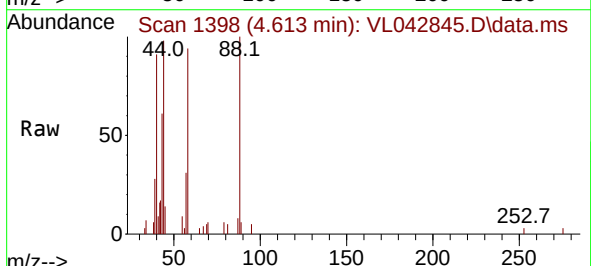
Ion Ratio Lower Upper

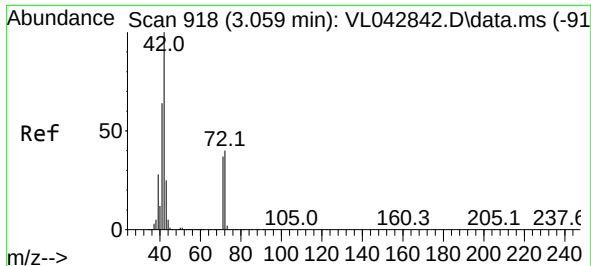
88 100

58 214.7 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

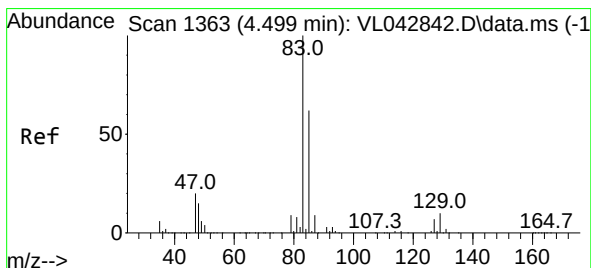
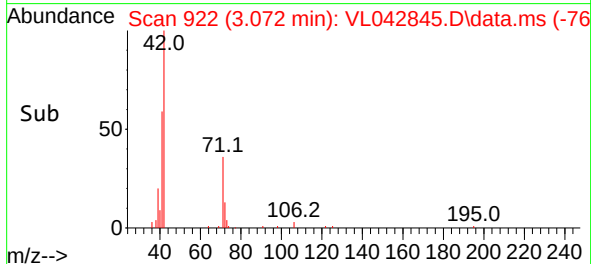
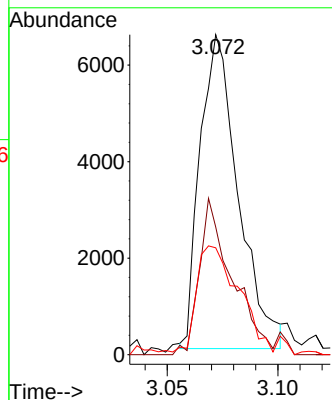
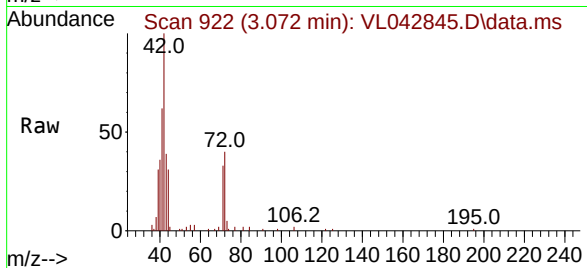




#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

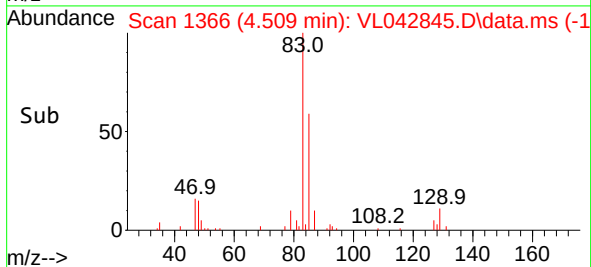
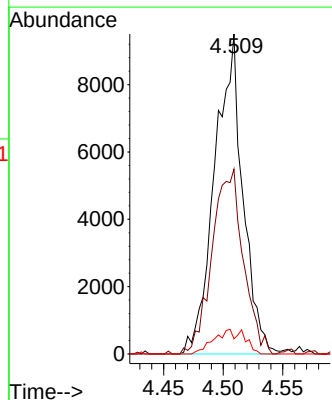
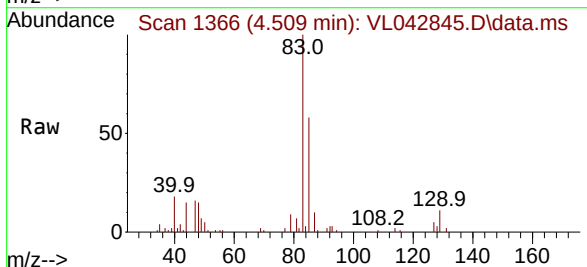
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

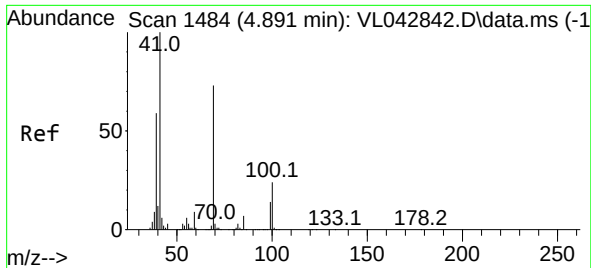
Tgt Ion:	42	Resp:	7827
Ion	Ratio	Lower	Upper
42	100		
72	44.5	32.6	48.8
71	42.0	30.0	45.0



#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

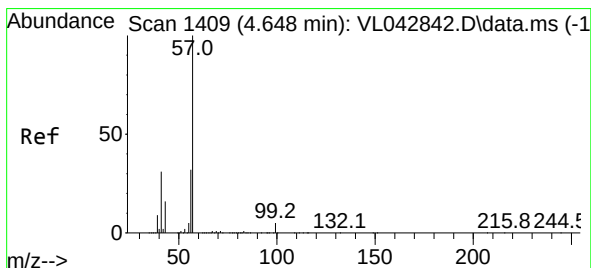
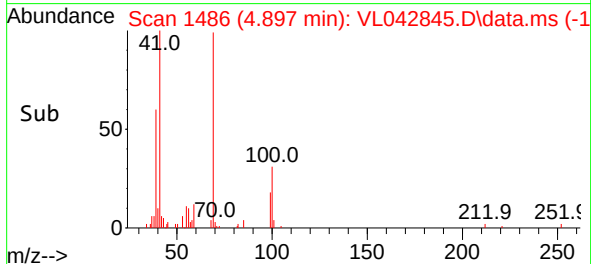
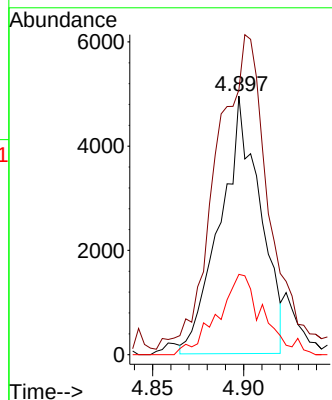
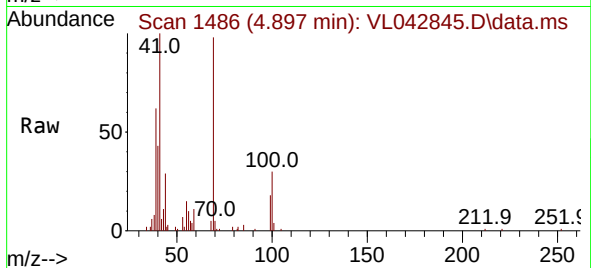




#43
Methyl Methacrylate
Concen: 0.484 ppbv
RT: 4.897 min Scan# 1410
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

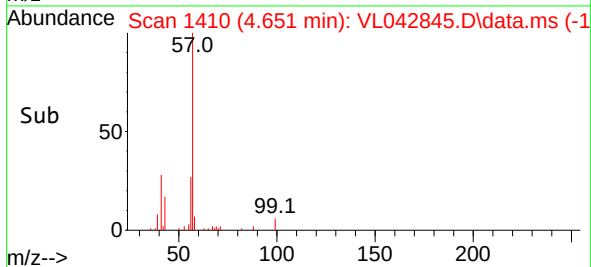
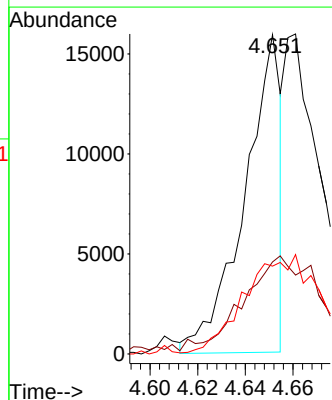
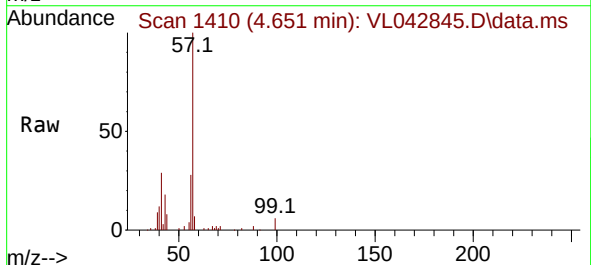
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

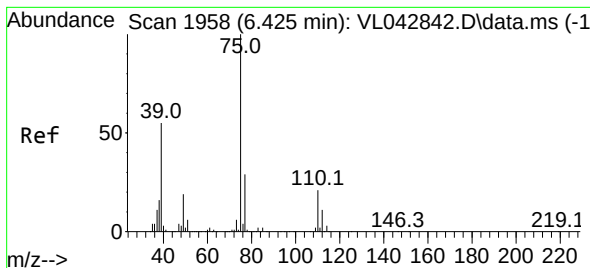
Tgt Ion: 69 Resp: 7529
Ion Ratio Lower Upper
69 100
41 158.8 114.6 172.0
100 35.6 30.2 45.4



#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_1

ClientSampleId :

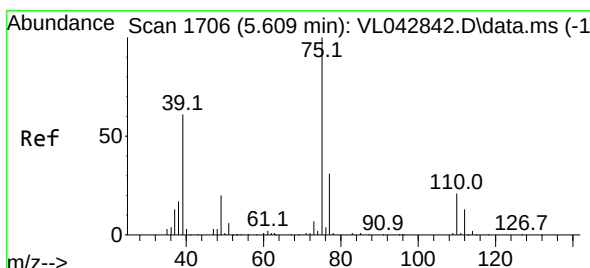
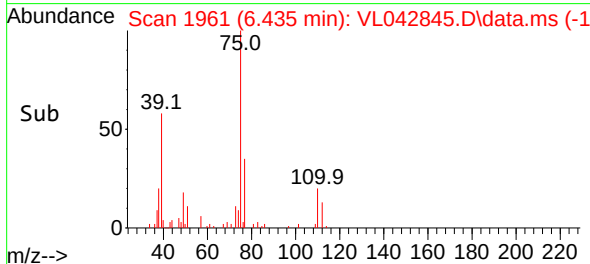
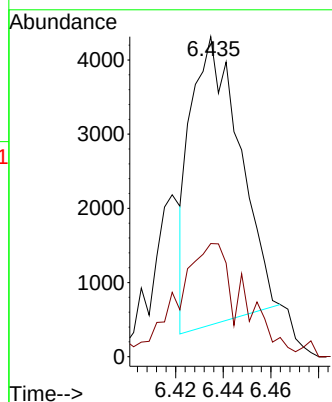
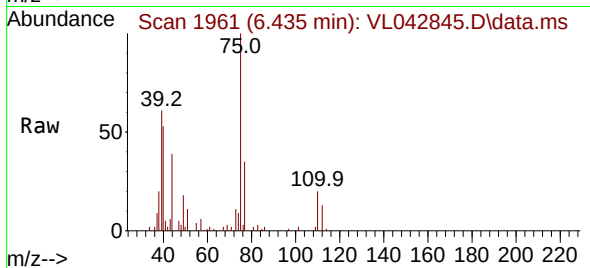
VSTDICC0.5

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

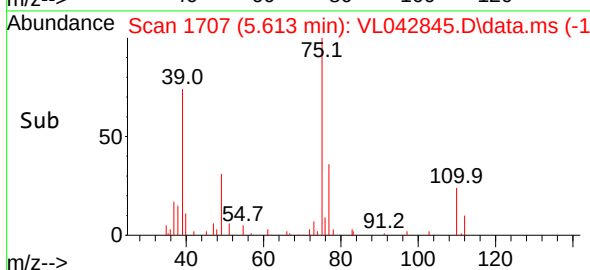
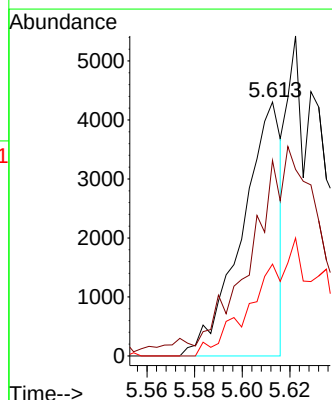
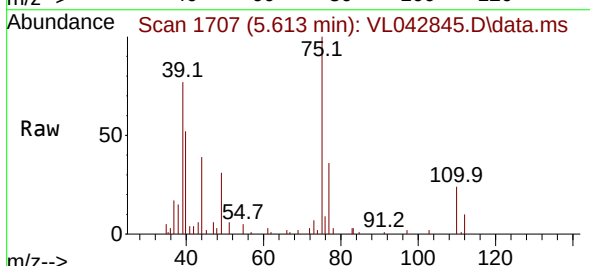
Tgt Ion: 75 Resp: 4895

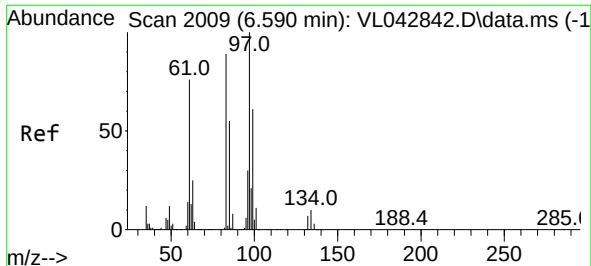
Ion Ratio Lower Upper

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

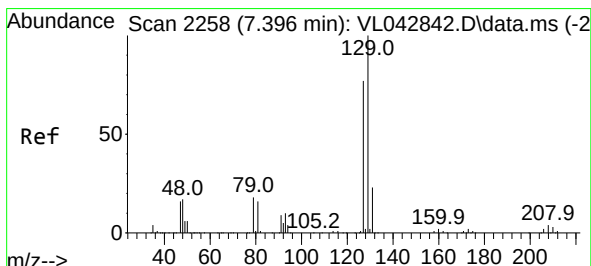
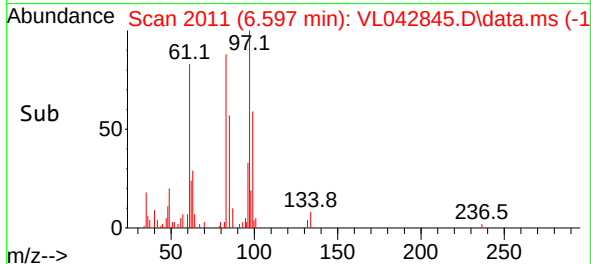
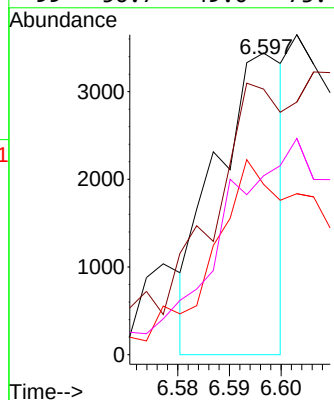
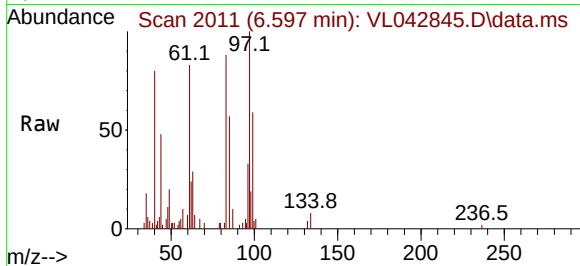
Ion Ratio Lower Upper

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

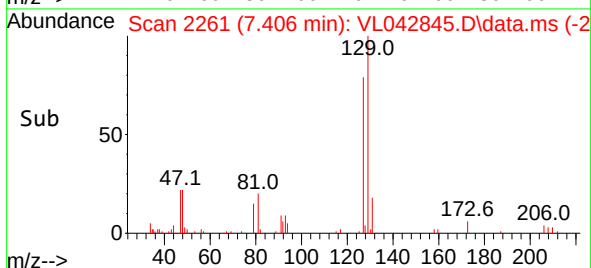
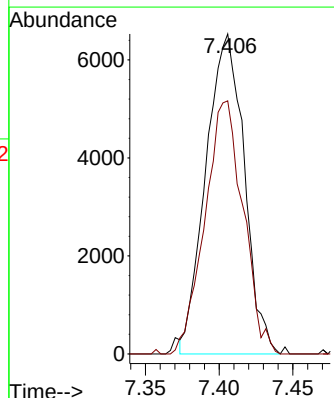
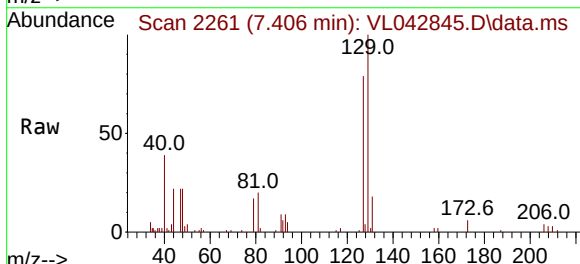
Acq: 13 Aug 2025 10:17

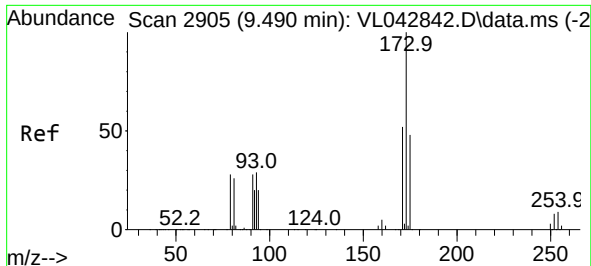
Tgt Ion: 129 Resp: 11805

Ion Ratio Lower Upper

129 100

127 79.1 39.4 118.2

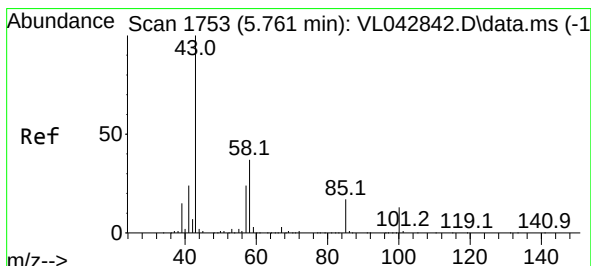
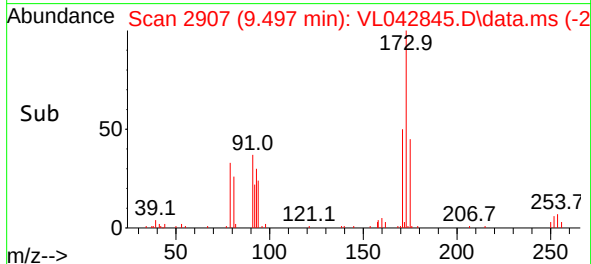
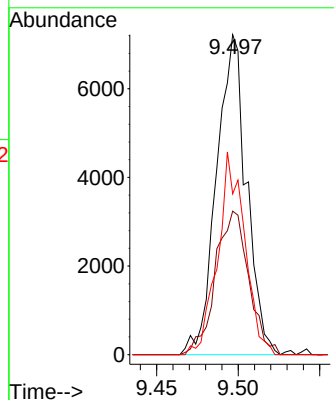
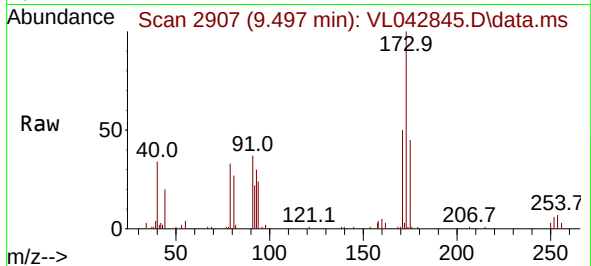




#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2905
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

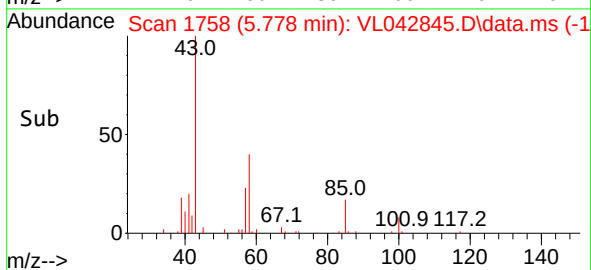
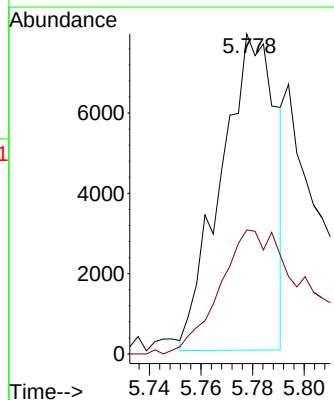
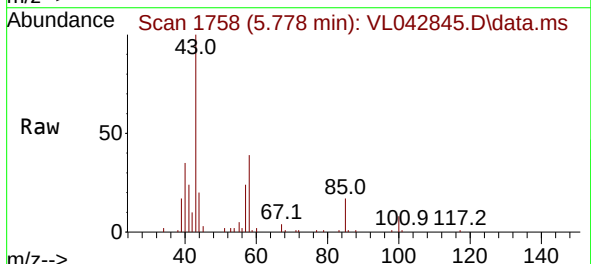
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

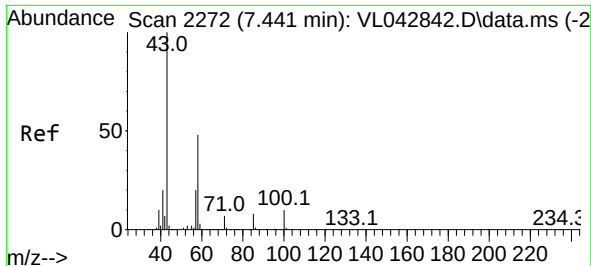
Tgt Ion:	173	Resp:	9232
Ion Ratio	Lower	Upper	
173	100		
175	49.9	39.2	58.8
171	57.0	41.3	61.9



#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#

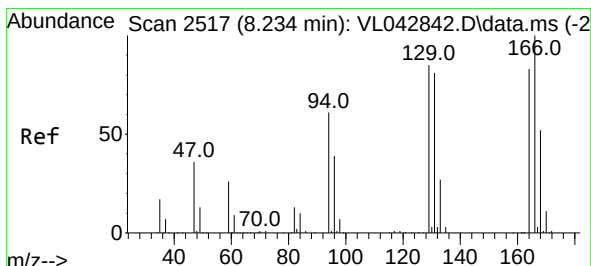
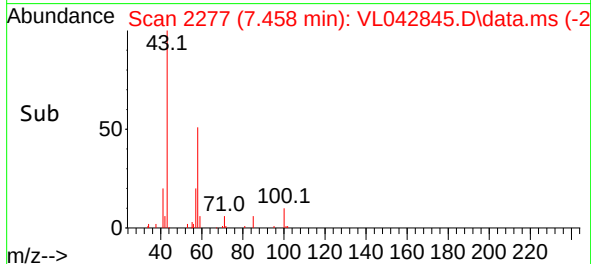
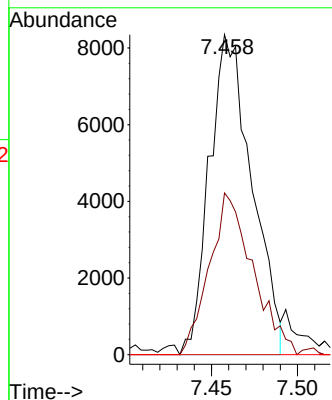
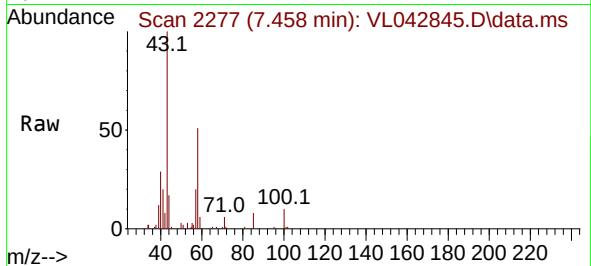




#51
2-Hexanone
Concen: 0.503 ppbv
RT: 7.458 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

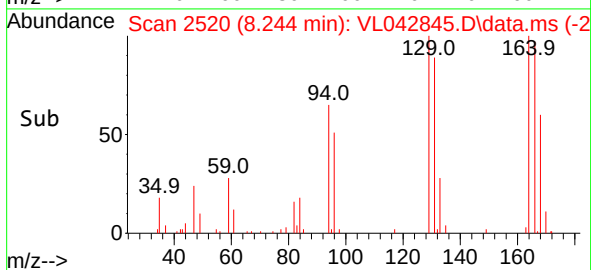
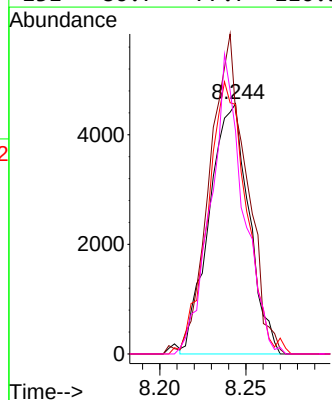
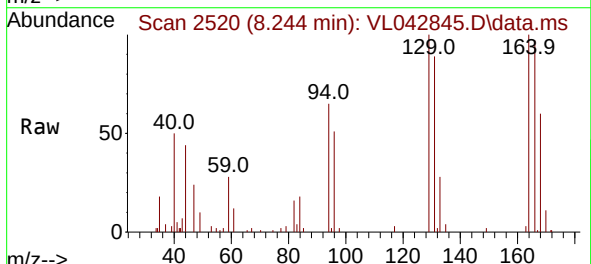
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

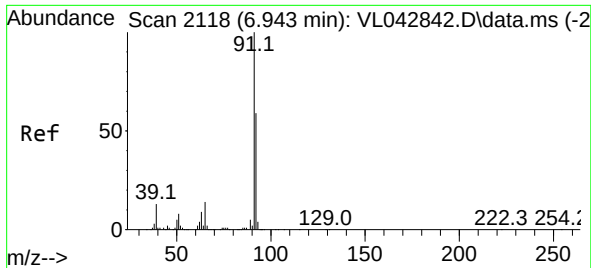
Tgt Ion: 43 Resp: 14329
Ion Ratio Lower Upper
43 100
58 52.3 41.0 61.6
98 0.0 0.1 0.1#



#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

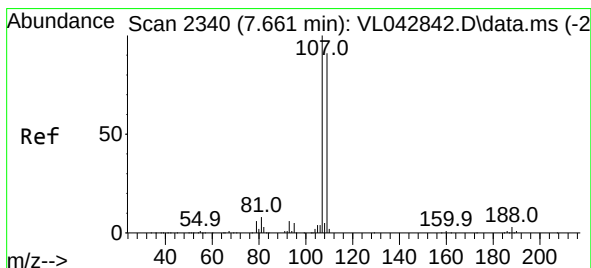
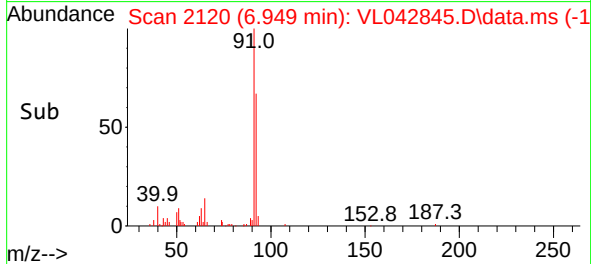
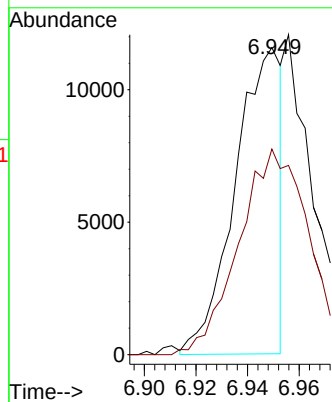
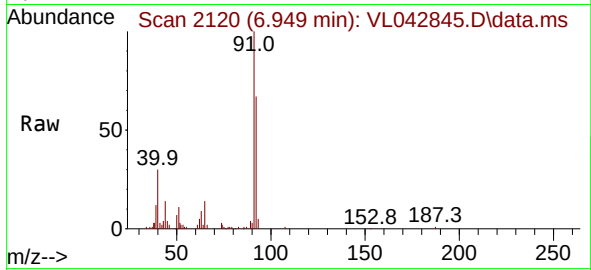




#53
Toluene
Concen: 0.318 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

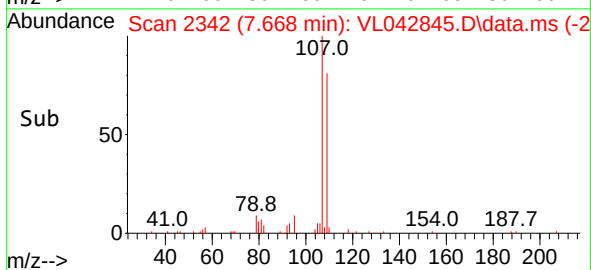
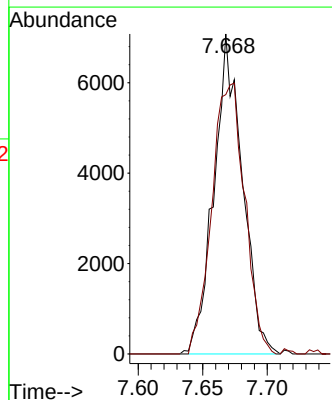
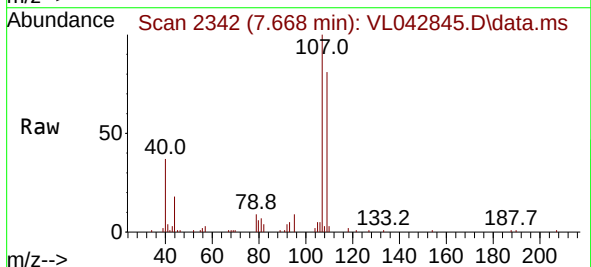
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

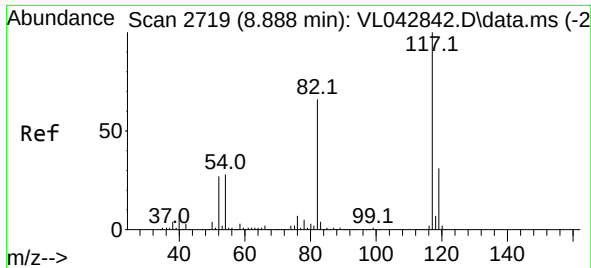
Tgt Ion: 91 Resp: 14358
Ion Ratio Lower Upper
91 100
92 104.5 47.8 71.6#



#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

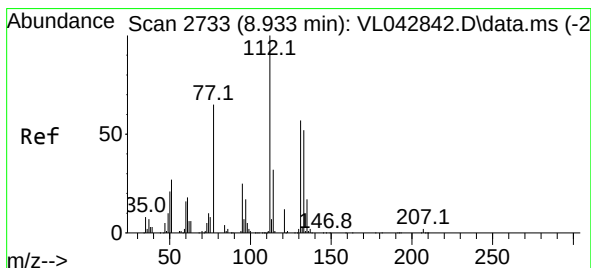
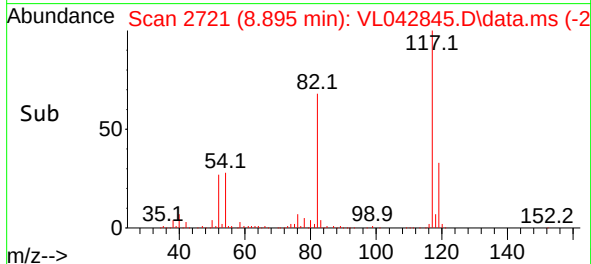
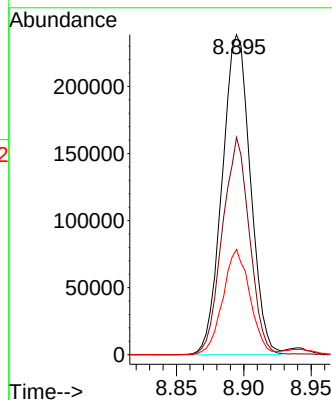
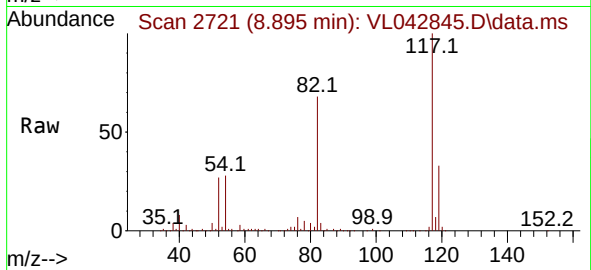




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

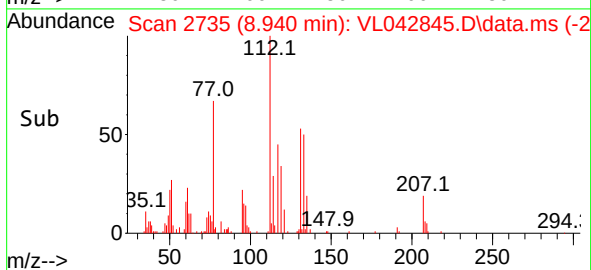
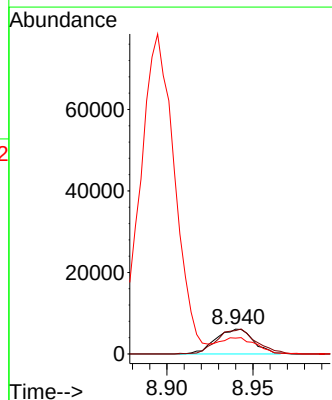
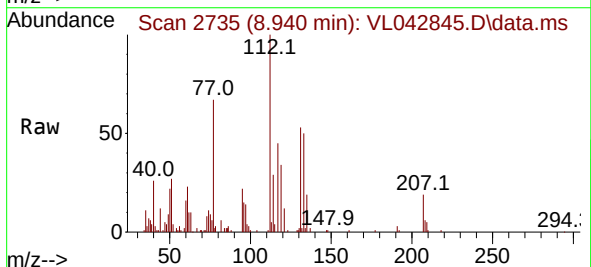
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

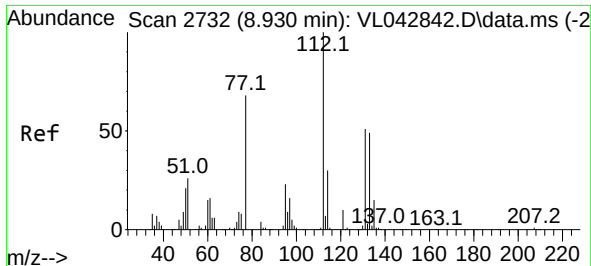
Tgt Ion:117 Resp: 348005
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 33.4 25.9 38.9



#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#

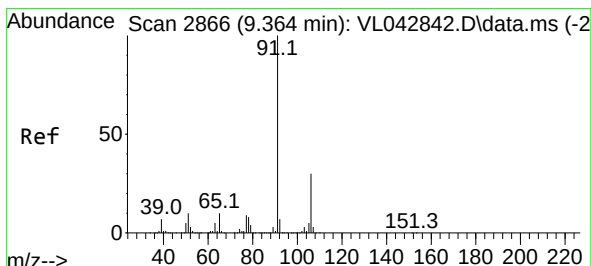
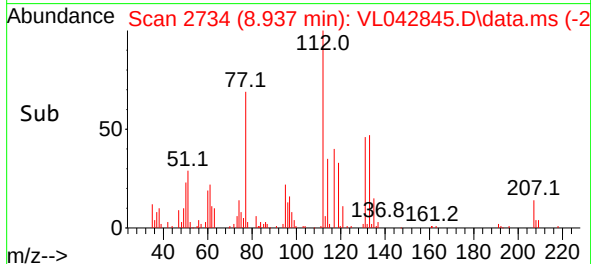
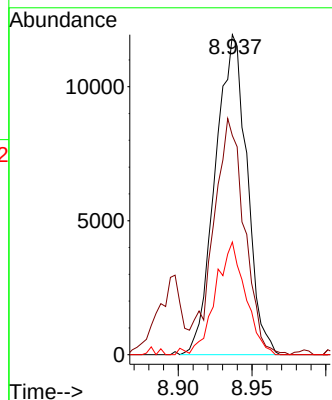
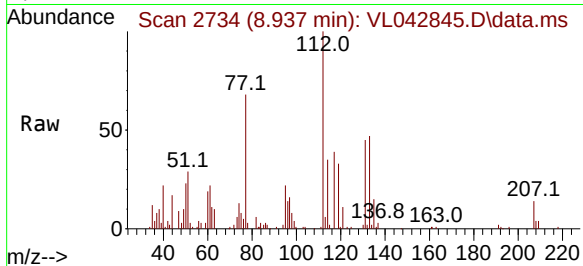




#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

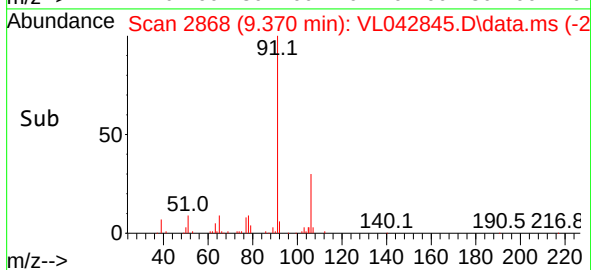
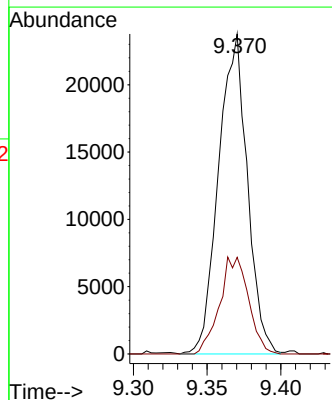
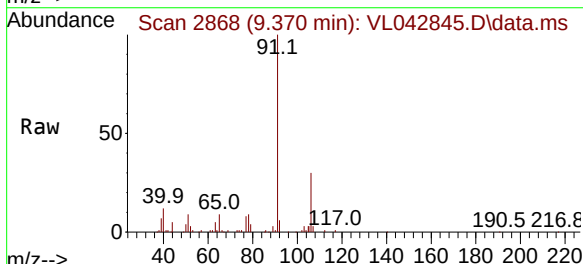
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

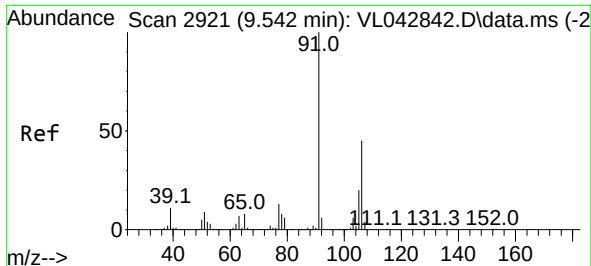
Tgt Ion:112 Resp: 17845
Ion Ratio Lower Upper
112 100
77 67.8 55.5 83.3
114 35.2 27.2 33.2#



#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_L

ClientSampleId :

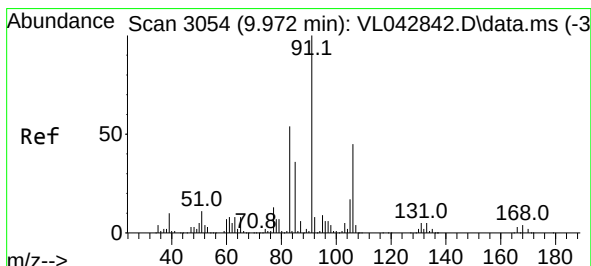
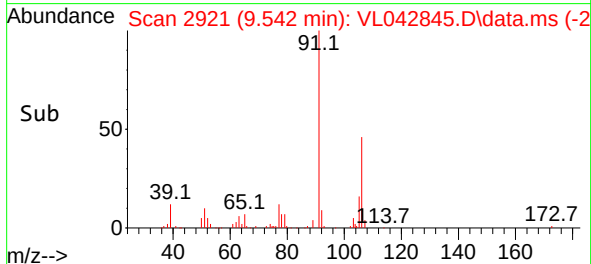
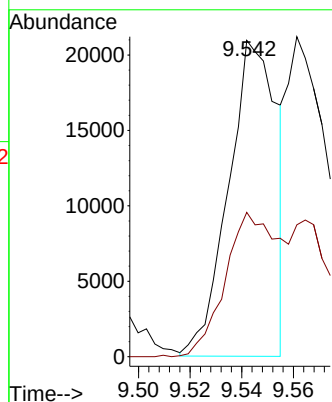
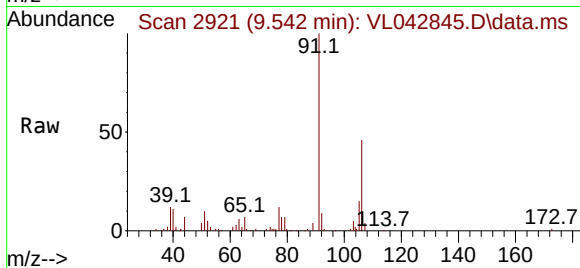
VSTDIC0.5

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

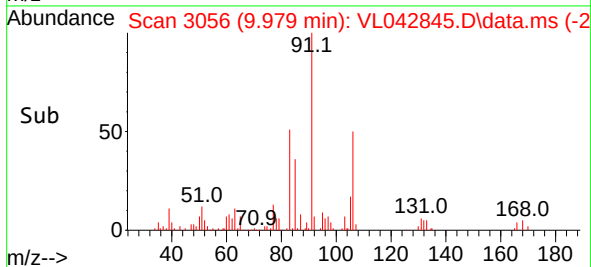
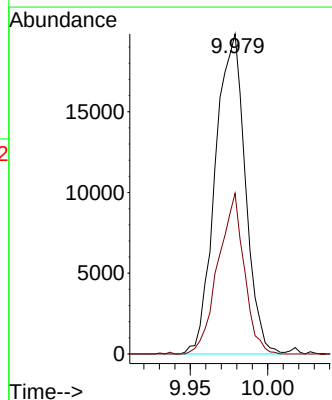
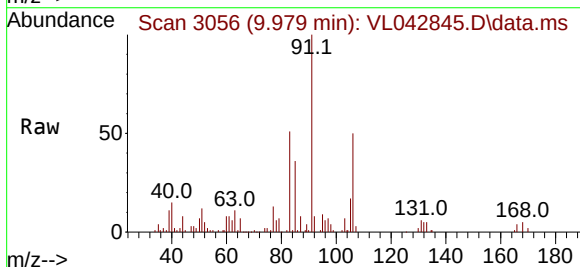
Acq: 13 Aug 2025 10:17

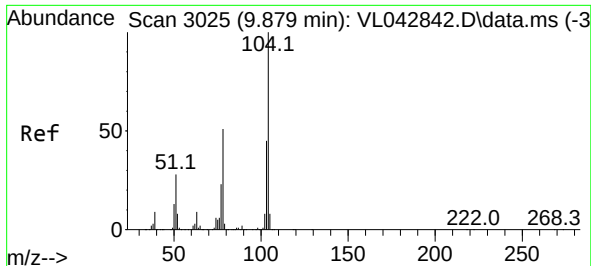
Tgt Ion: 91 Resp: 26662

Ion Ratio Lower Upper

91 100

106 43.8 21.8 65.4

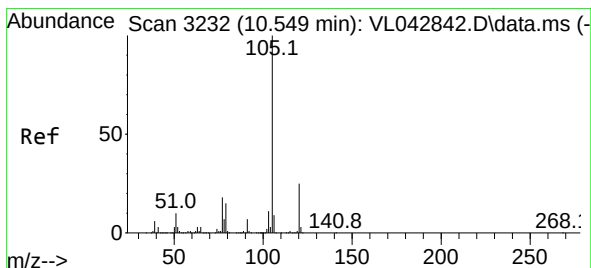
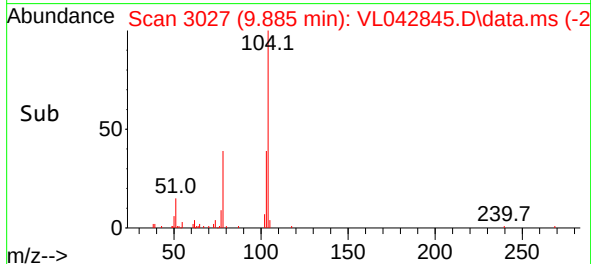
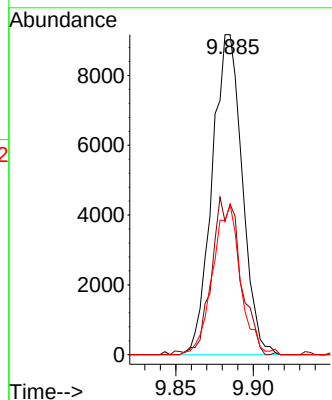
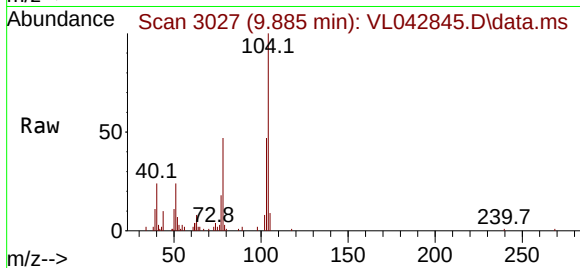




#61
Styrene
Concen: 0.546 ppbv
RT: 9.885 min Scan# 3025
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

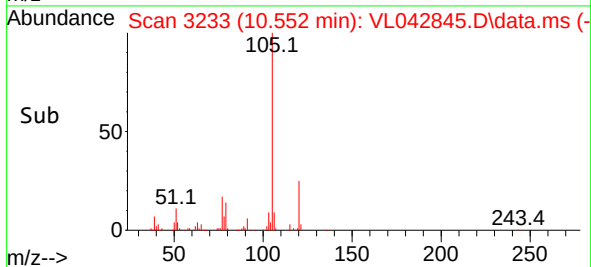
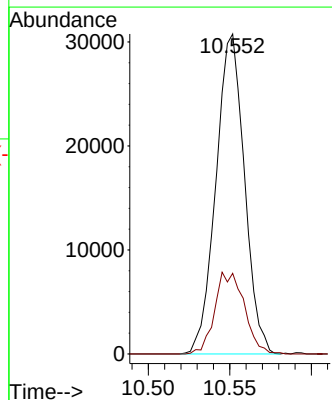
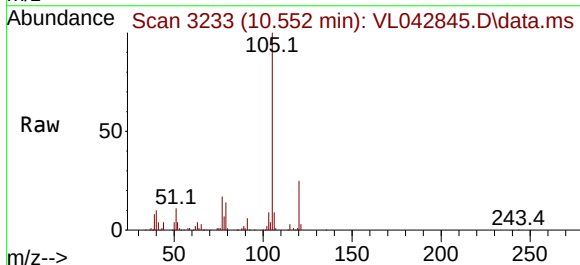
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

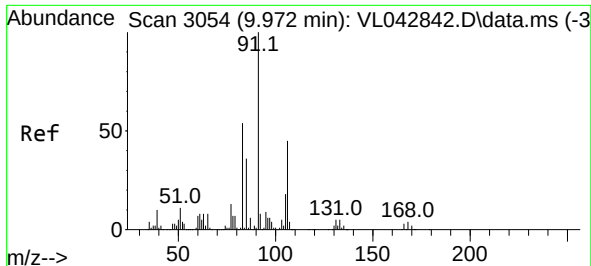
Tgt Ion:104 Resp: 12379
Ion Ratio Lower Upper
104 100
78 47.4 40.6 61.0
103 43.4 37.7 56.5



#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# 3054

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

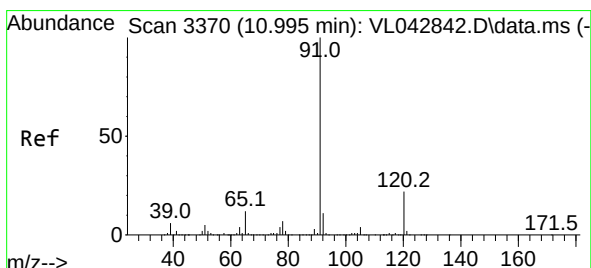
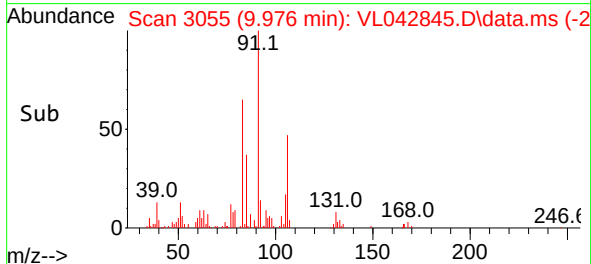
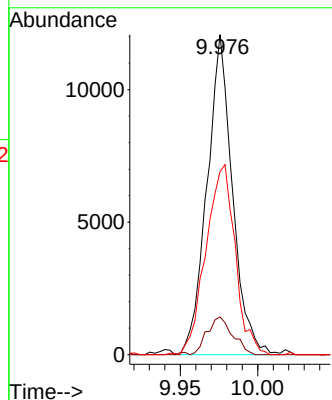
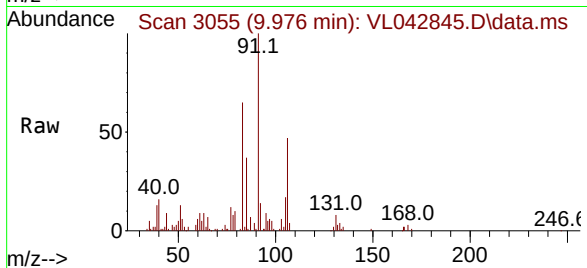
Tgt Ion: 83 Resp: 13828

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

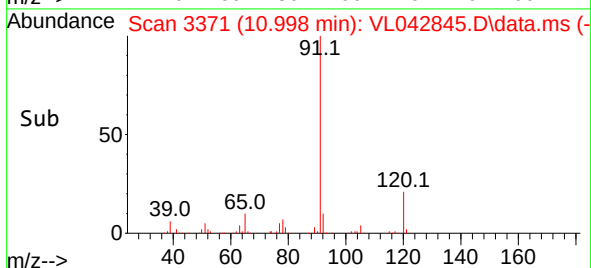
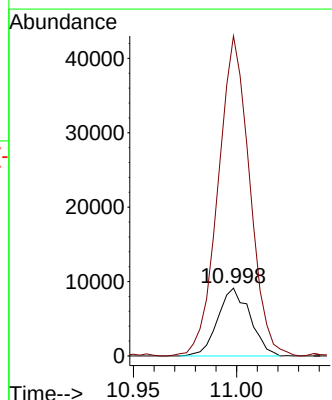
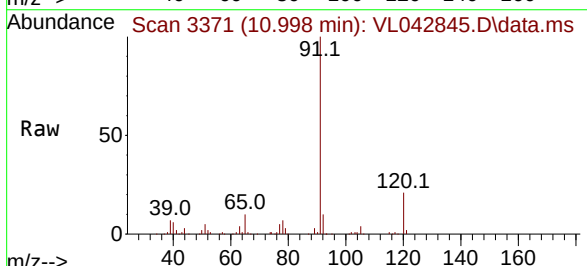
Acq: 13 Aug 2025 10:17

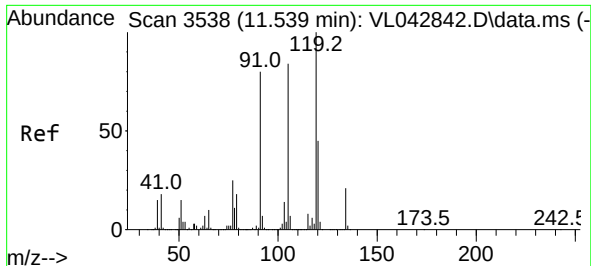
Tgt Ion: 120 Resp: 9922

Ion Ratio Lower Upper

120 100

91 463.3 375.8 563.6

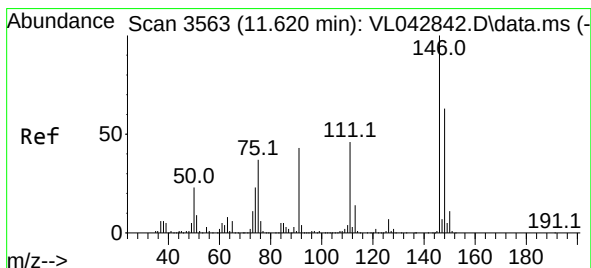
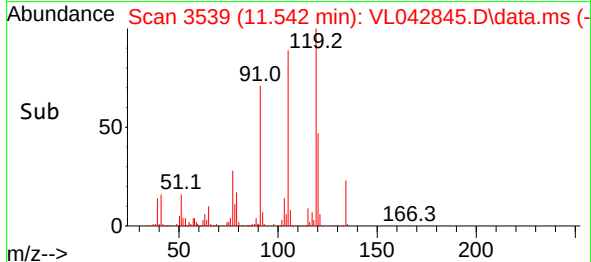
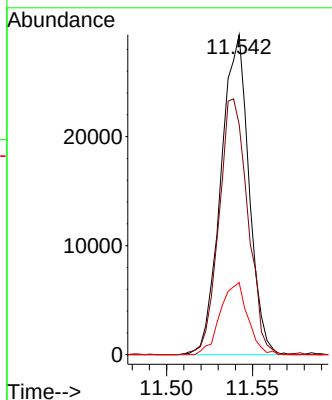
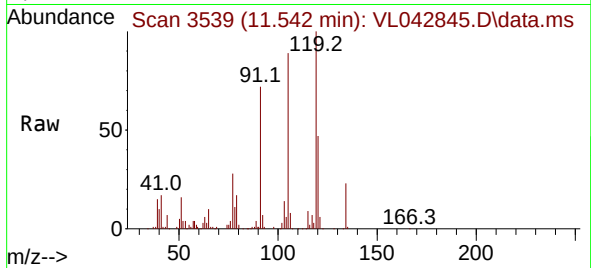




#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

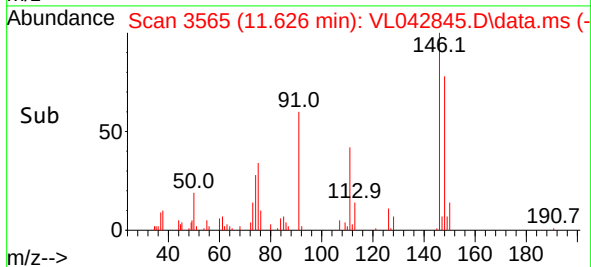
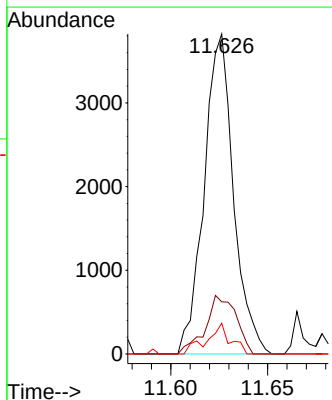
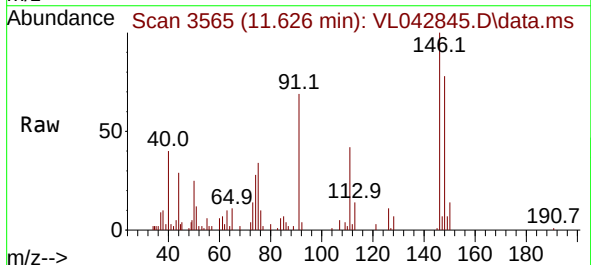
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

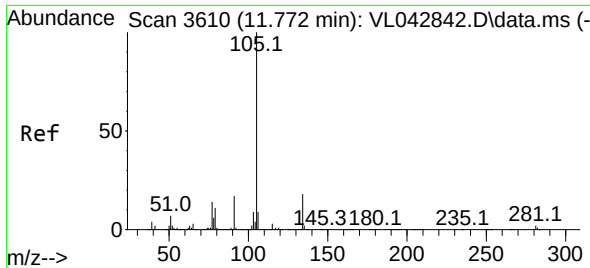
Tgt Ion:119 Resp: 33183
Ion Ratio Lower Upper
119 100
91 82.8 63.9 95.9
134 22.1 17.0 25.4



#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#

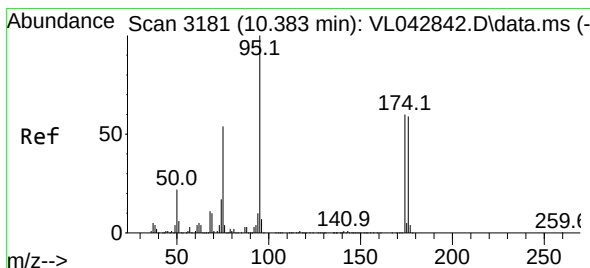
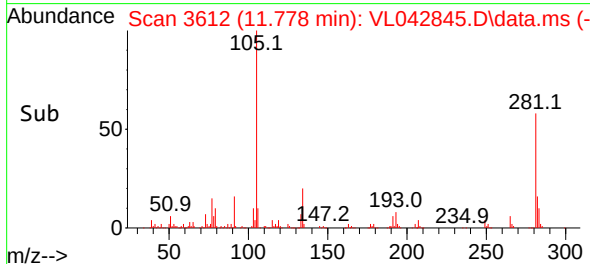
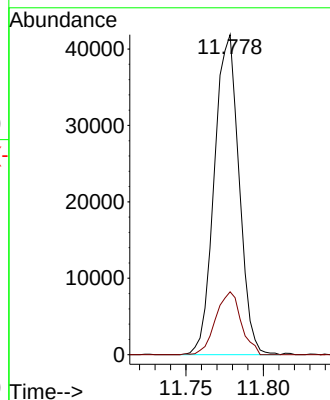
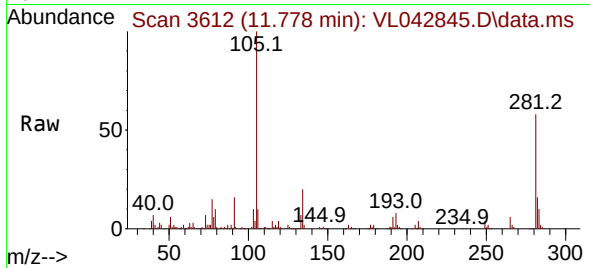




#67
 sec-Butylbenzene
 Concen: 0.530 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

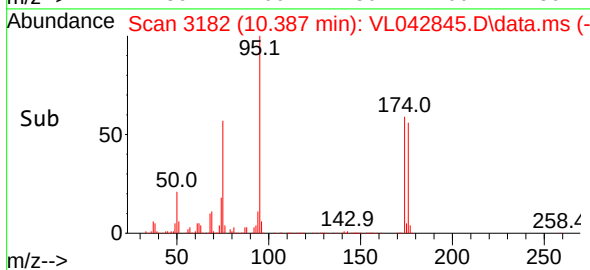
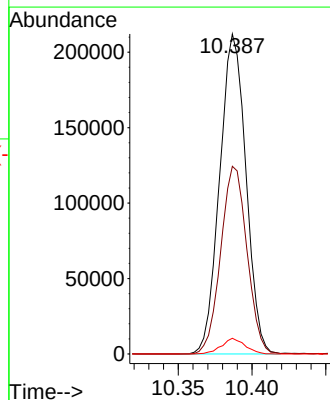
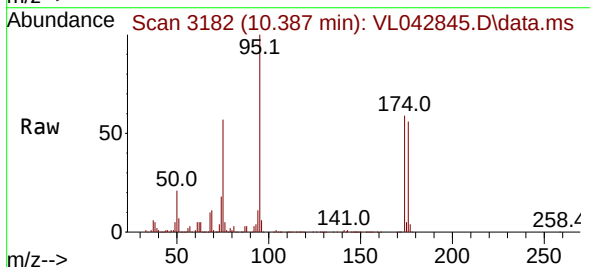
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

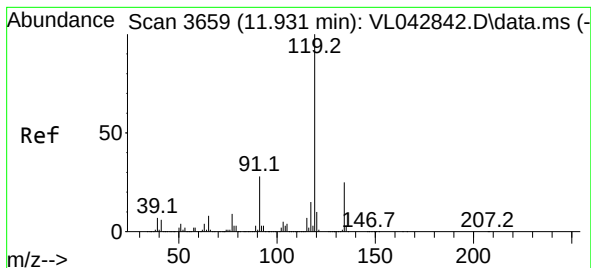
Tgt Ion:105 Resp: 46433
 Ion Ratio Lower Upper
 105 100
 134 20.3 14.9 22.3



#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

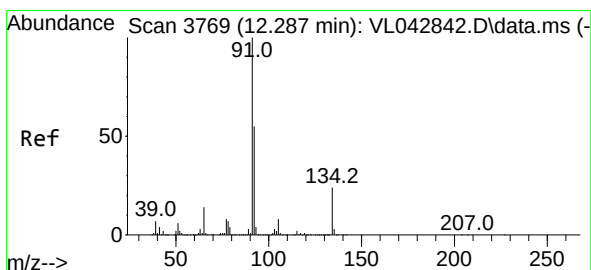
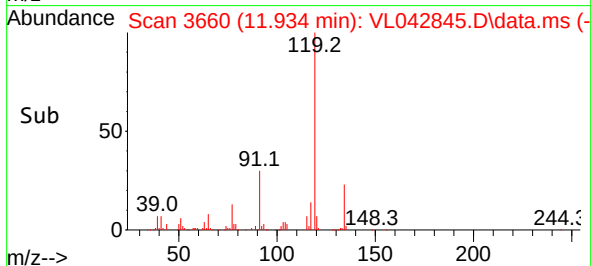
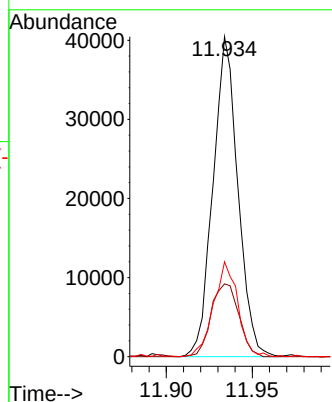
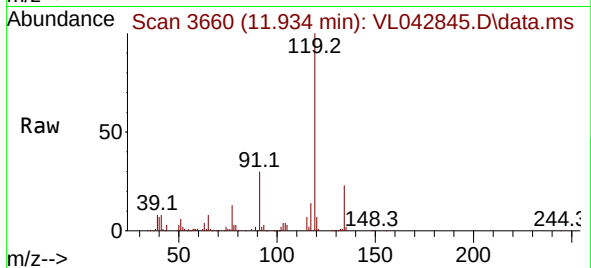
Tgt Ion:119 Resp: 40686

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

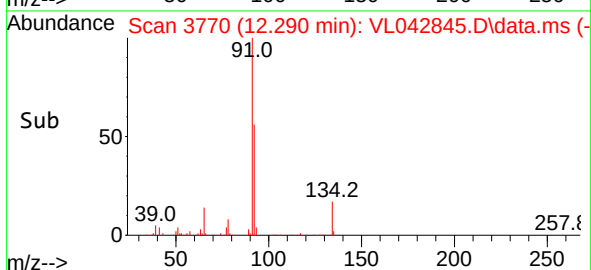
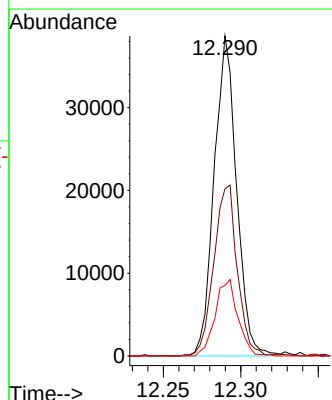
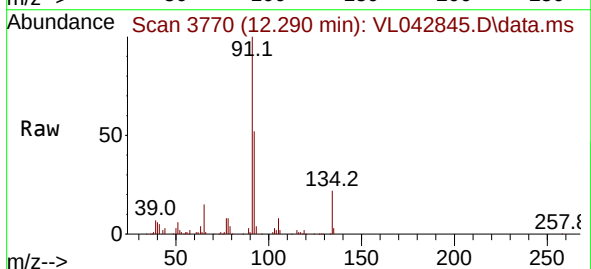
Tgt Ion: 91 Resp: 38867

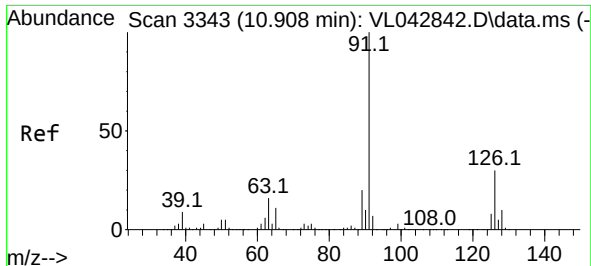
Ion Ratio Lower Upper

91 100

92 56.1 44.6 66.8

134 24.2 19.0 28.4

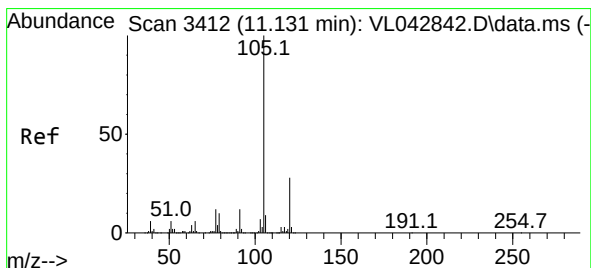
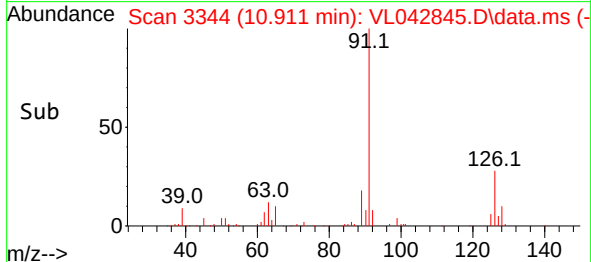
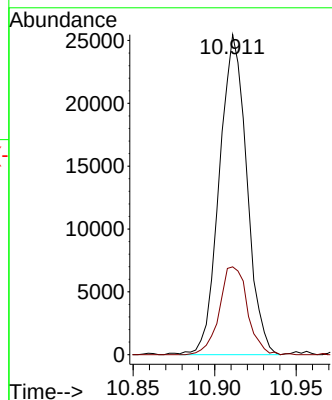
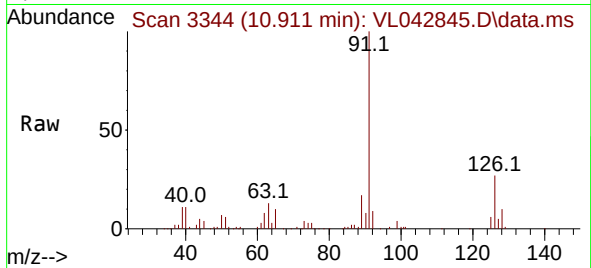




#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

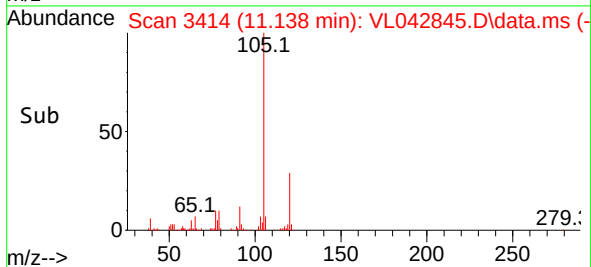
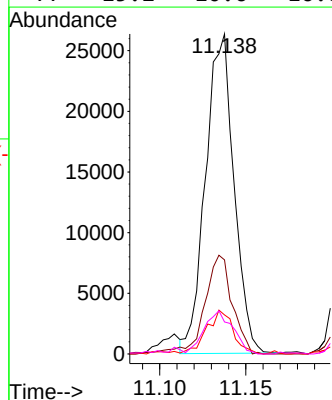
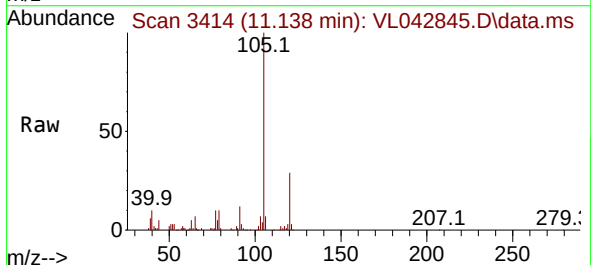
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

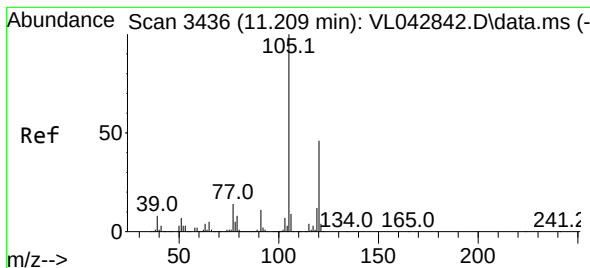
Tgt Ion: 91 Resp: 29736
Ion Ratio Lower Upper
91 100
126 28.2 12.0 47.8



#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 :

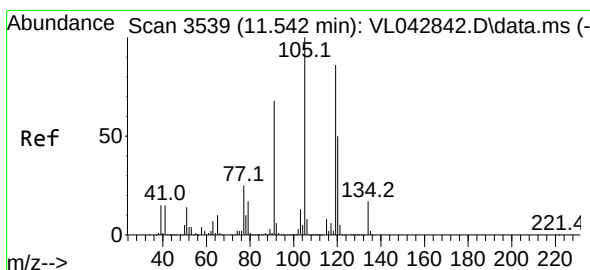
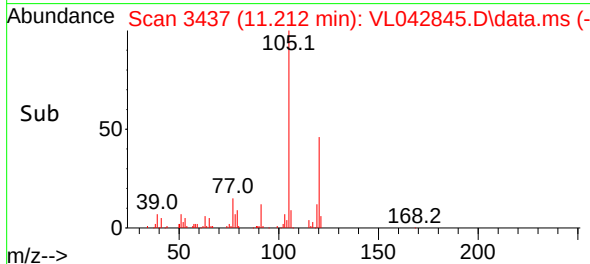
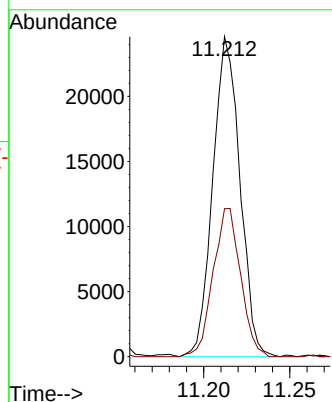
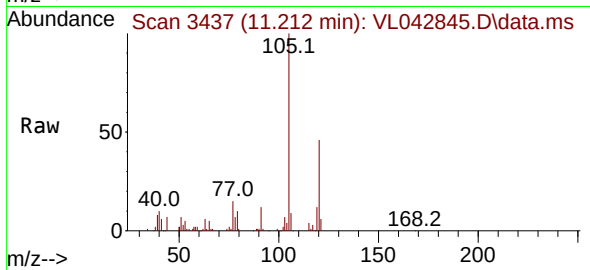
VSTDIC0.5

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

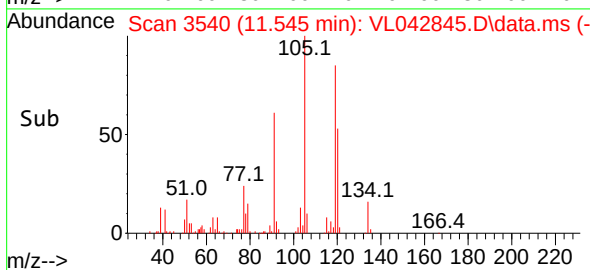
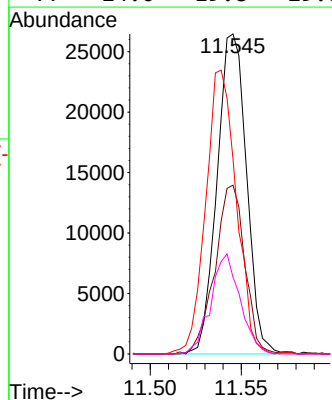
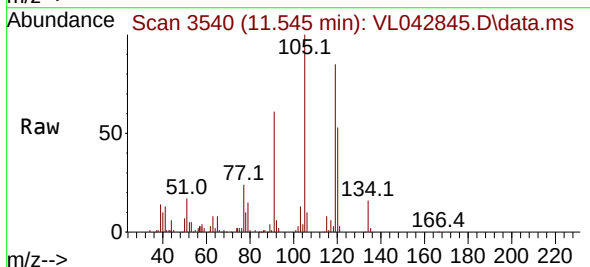
Ion Ratio Lower Upper

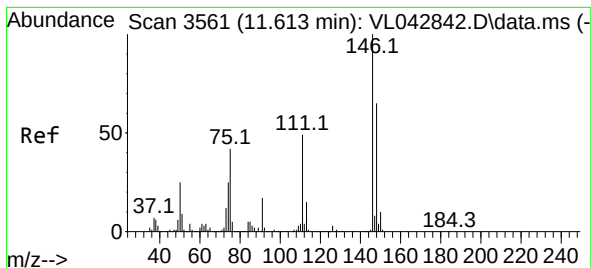
105 100

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 :

VSTDICC0.5

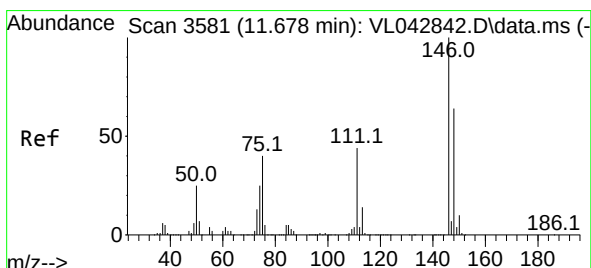
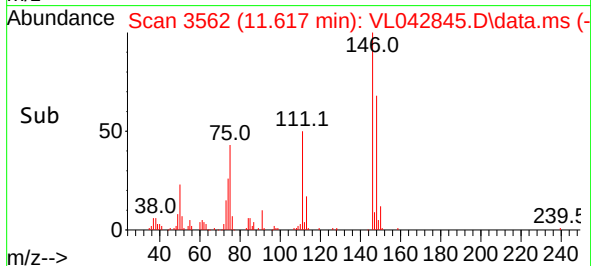
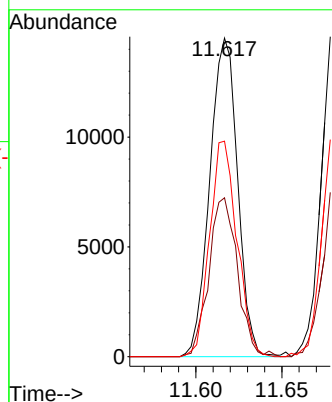
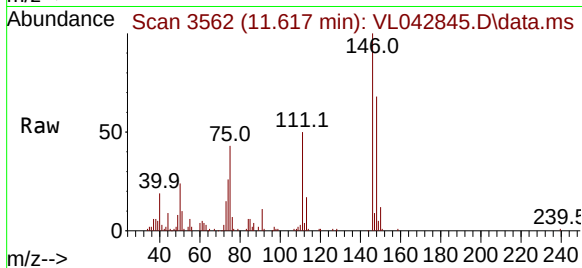
Tgt Ion:146 Resp: 16311

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

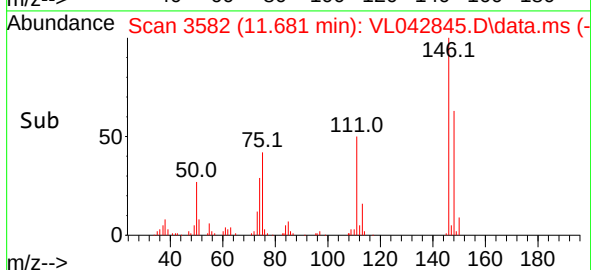
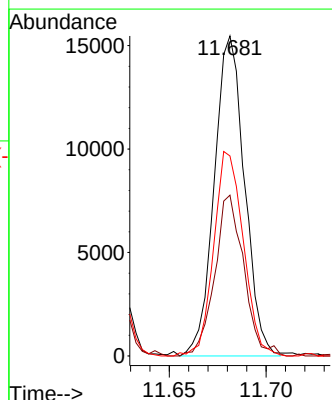
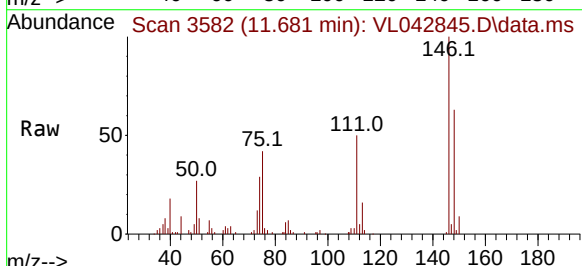
Tgt Ion:146 Resp: 16803

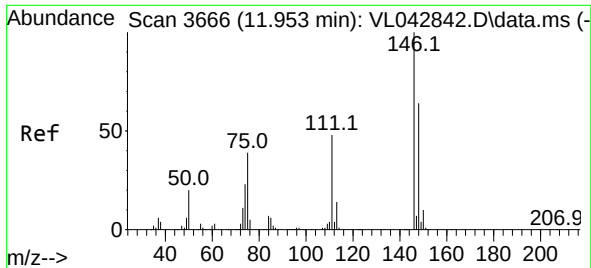
Ion Ratio Lower Upper

146 100

111 48.3 22.7 68.1

148 62.7 31.8 95.3

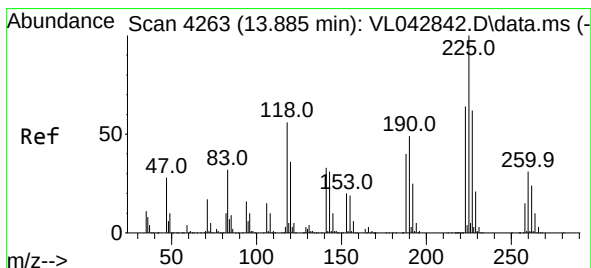
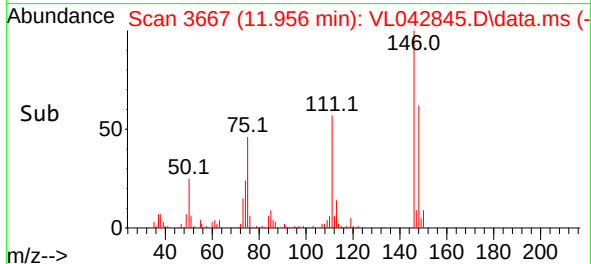
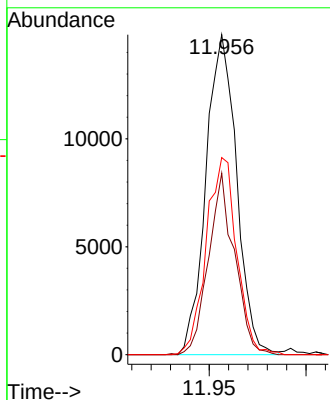
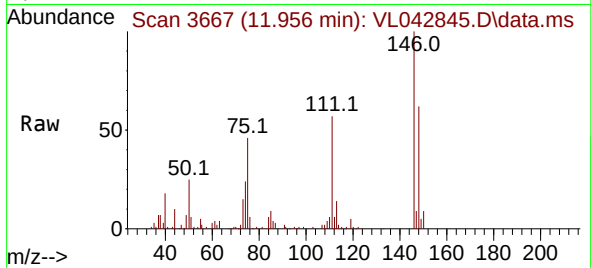




#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3667
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

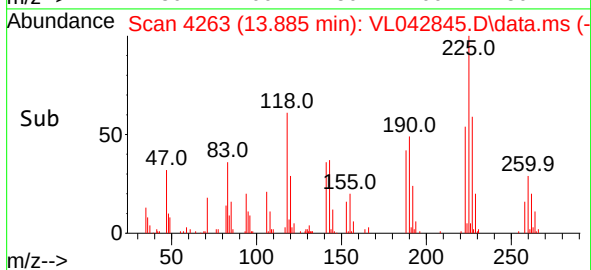
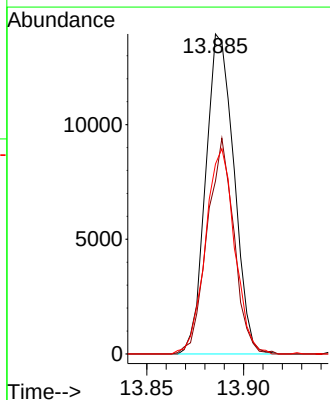
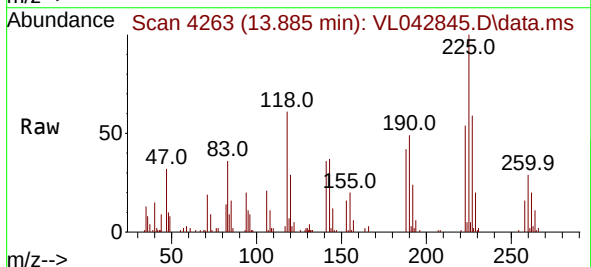
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

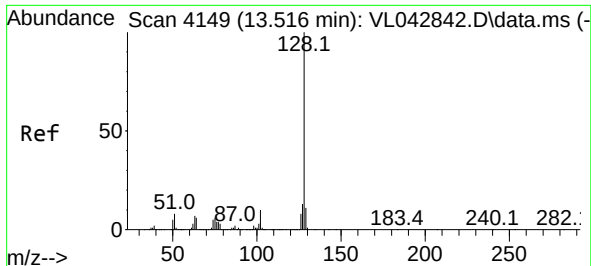
Tgt Ion:	146	Resp:	16306
Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.6	74.0
148	61.1	32.0	96.0



#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

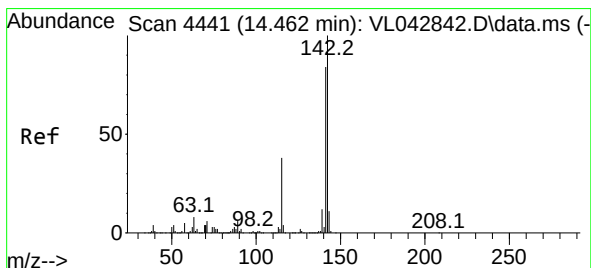
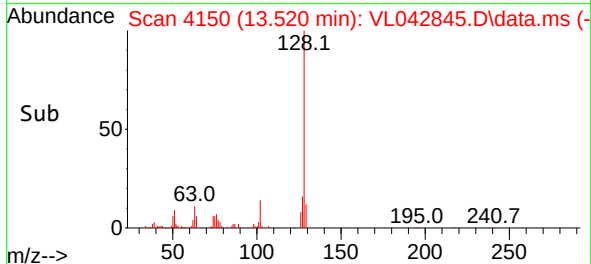
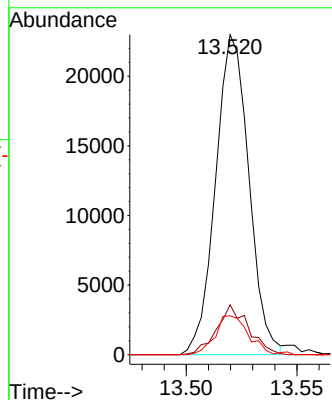
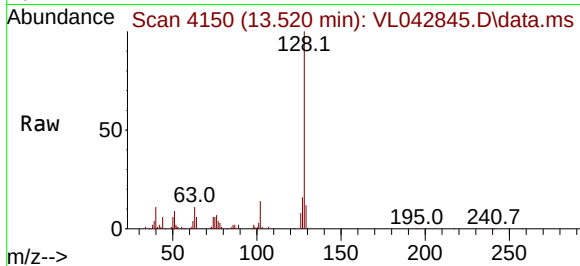




#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

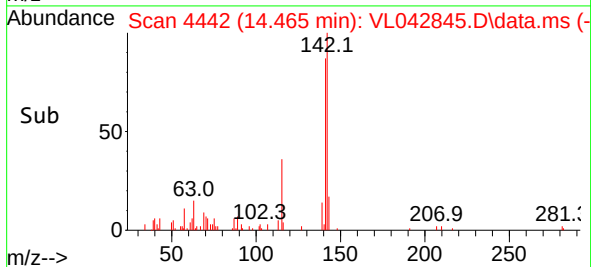
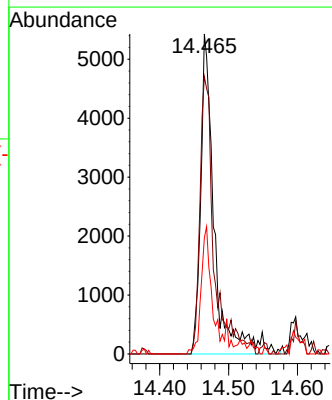
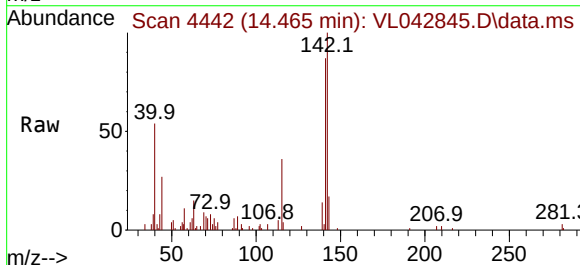
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

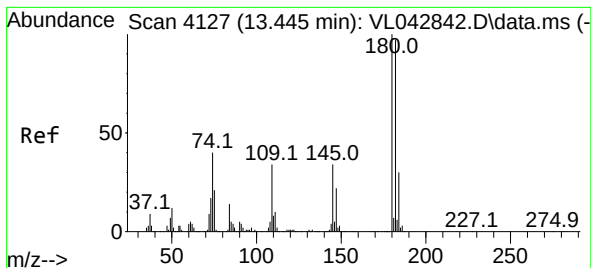
Tgt Ion:	128	Resp:	24056
Ion Ratio	Lower	Upper	
128	100		
127	15.6	10.6	16.0
129	12.2	8.9	13.3



#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# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

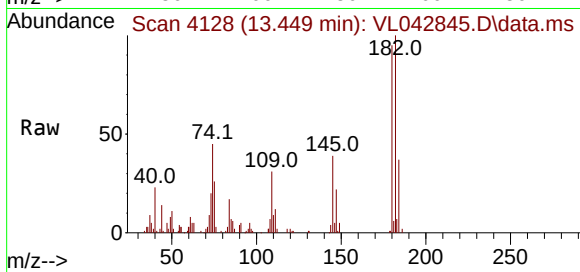
Acq: 13 Aug 2025 10:17

Instrument :

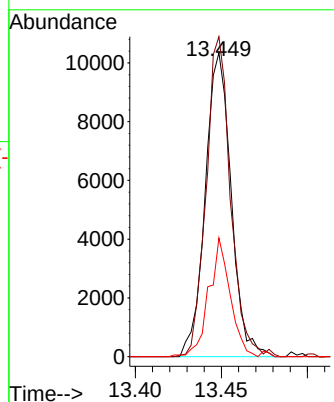
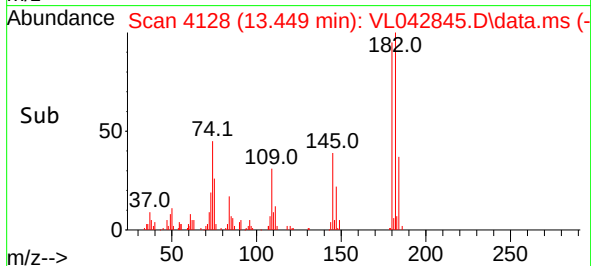
MSVOA_L

ClientSampleId :

VSTDICC0.5



Tgt Ion:	180	Resp:	10844
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

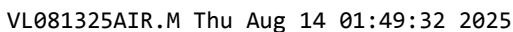
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

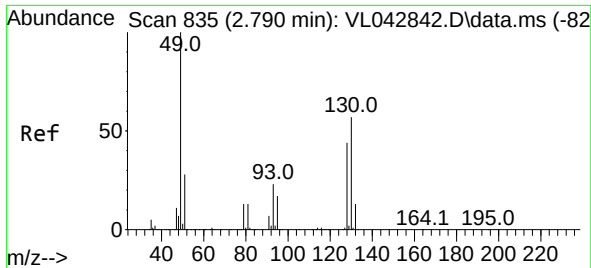
Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

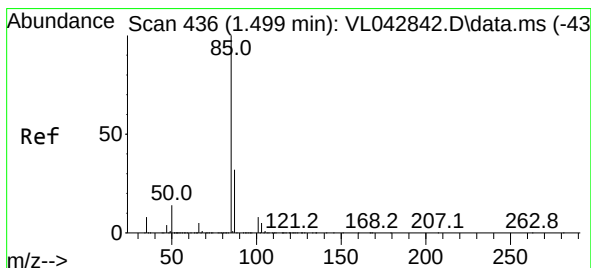
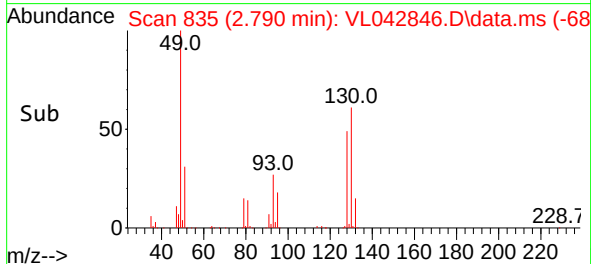
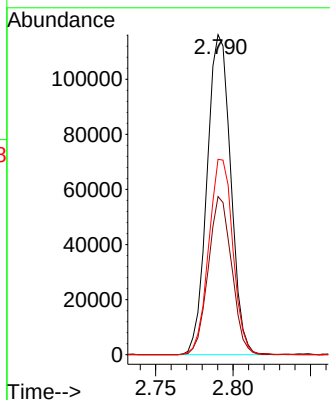
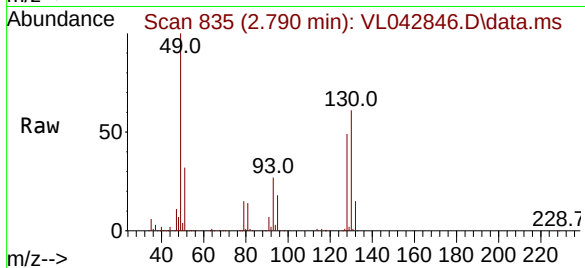




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

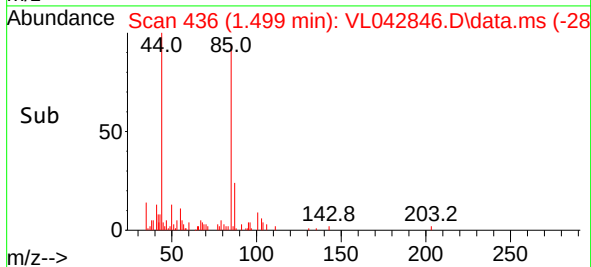
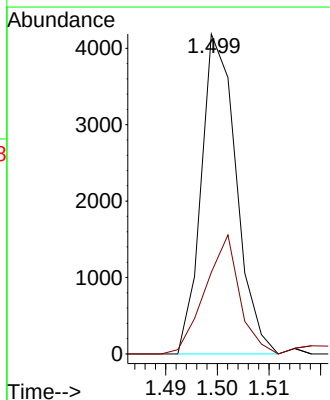
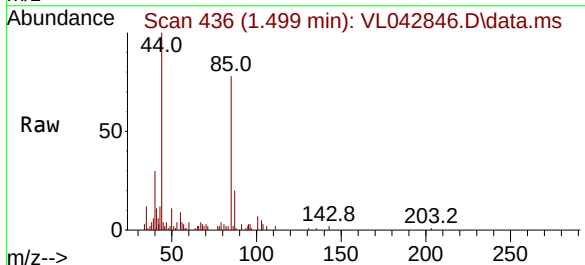
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

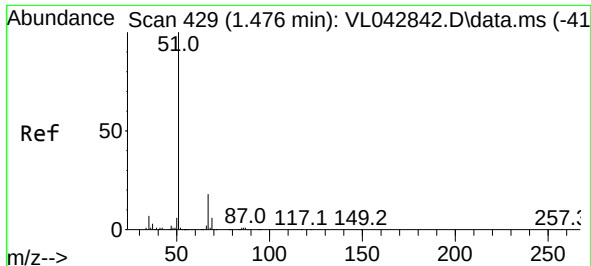
Tgt Ion: 49 Resp: 123711
Ion Ratio Lower Upper
49 100
128 48.6 23.7 71.1
130 62.1 30.6 91.6



#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

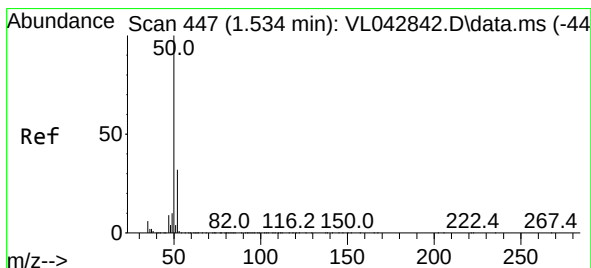
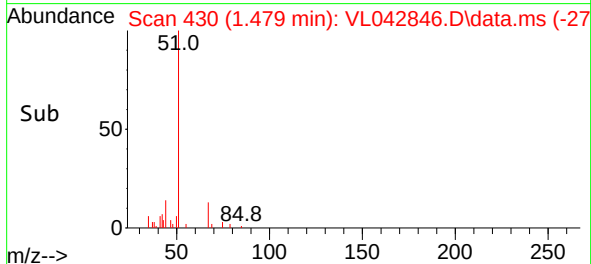
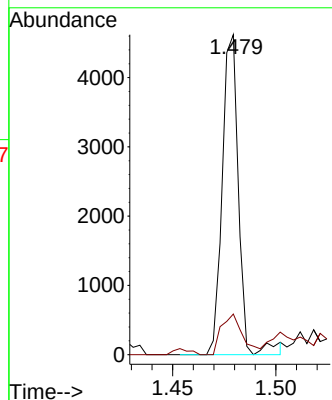
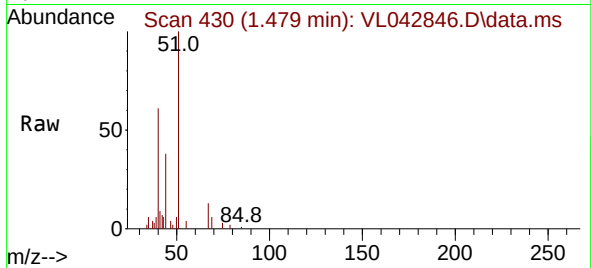




#3
Chlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

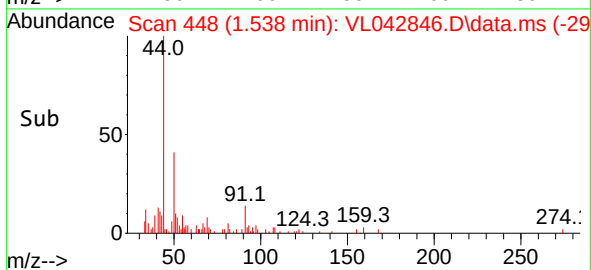
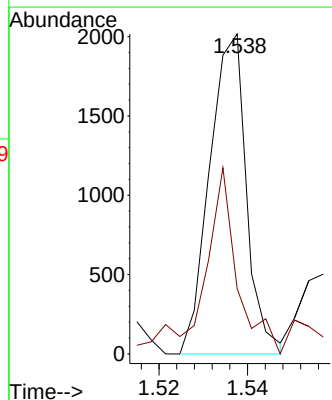
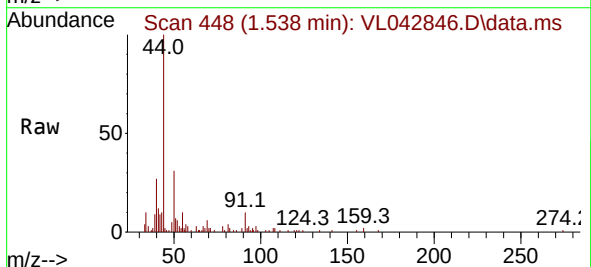
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

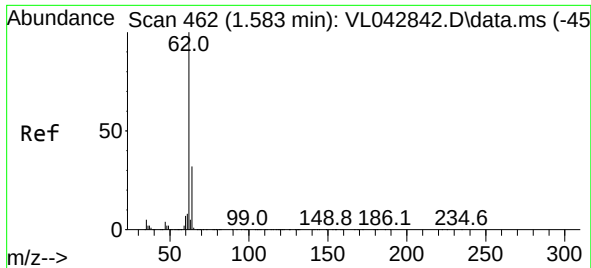
Tgt Ion: 51 Resp: 2553
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#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#

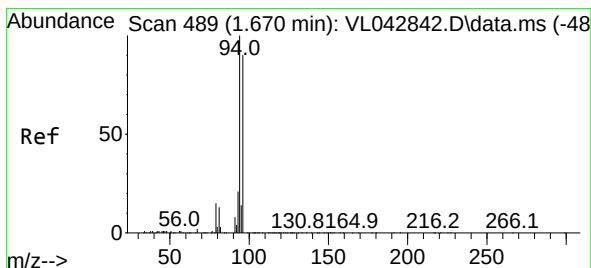
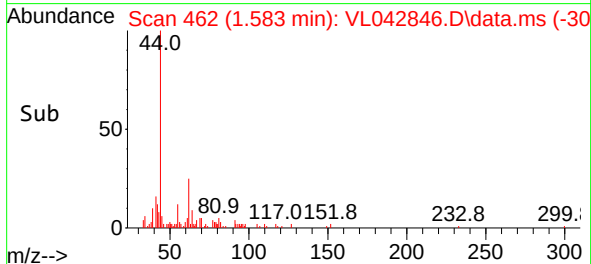
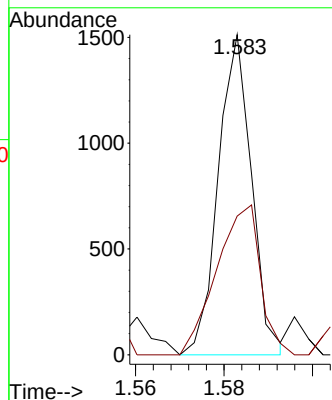
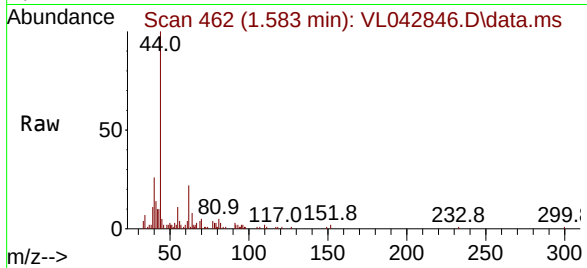




#5
 Vinyl Chloride
 Concen: 0.110 ppbv
 RT: 1.583 min Scan# 410
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

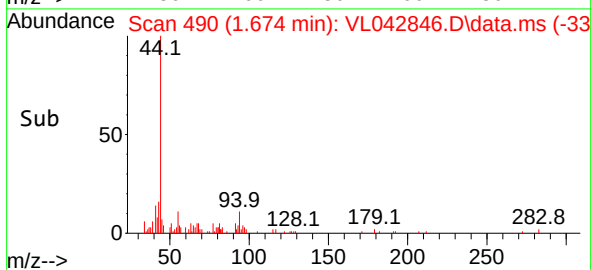
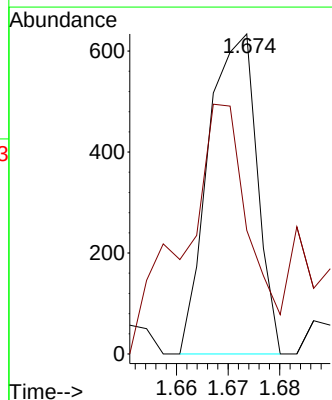
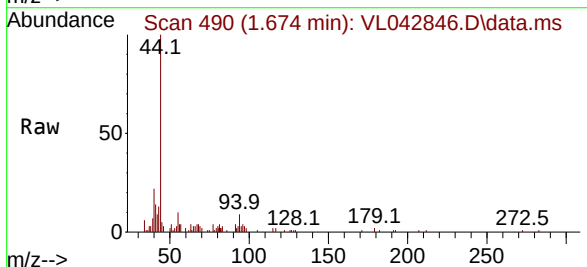
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

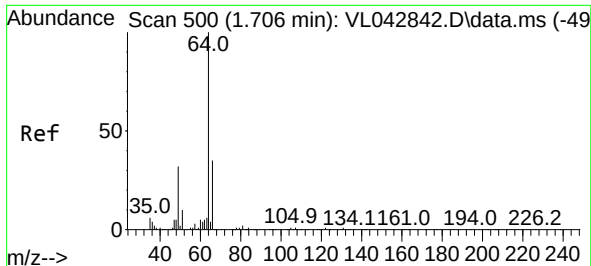
Tgt Ion: 62 Resp: 790
 Ion Ratio Lower Upper
 62 100
 64 39.7 25.4 38.2#



#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#

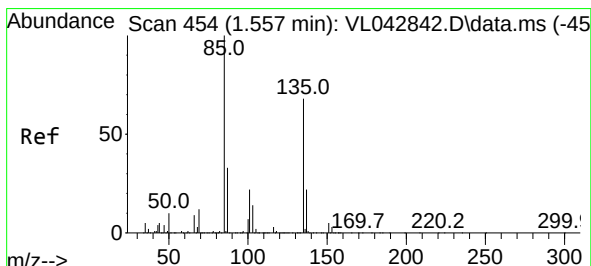
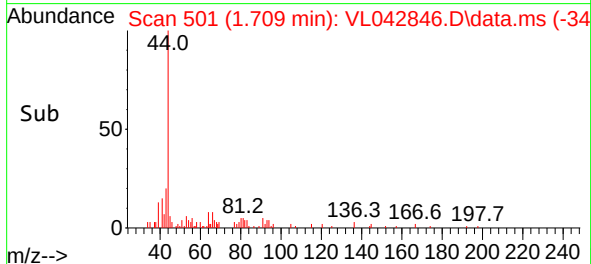
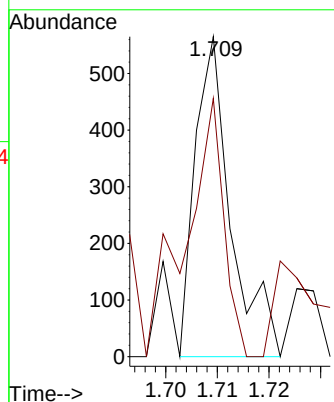
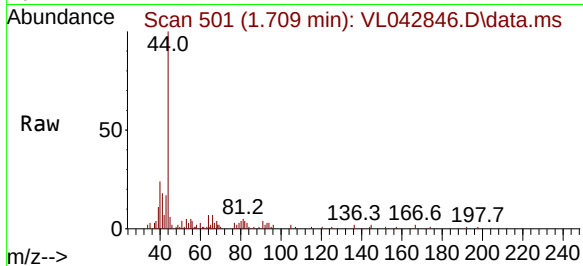




#7
Chloroethane
Concen: 0.097 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

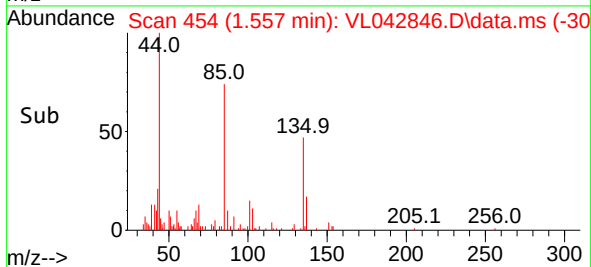
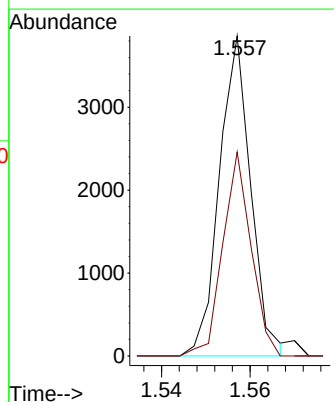
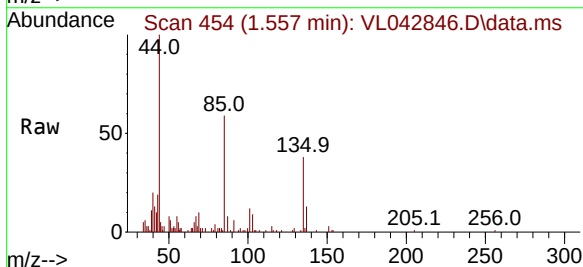
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

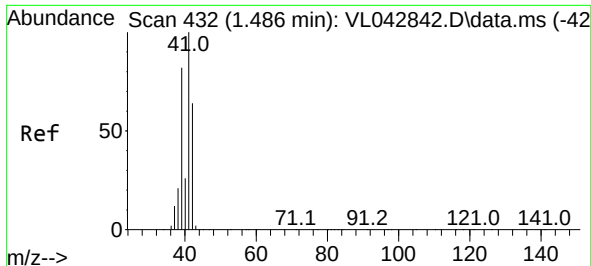
Tgt Ion: 64 Resp: 272
Ion Ratio Lower Upper
64 100
66 80.7 28.6 42.8#



#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

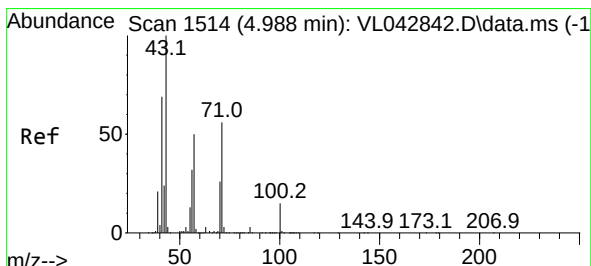
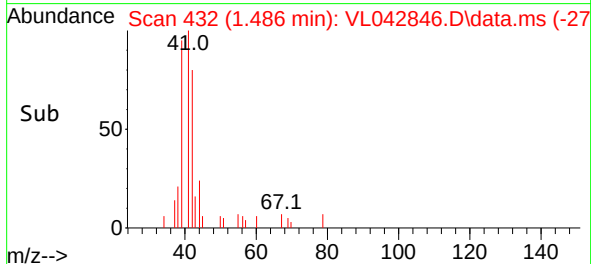
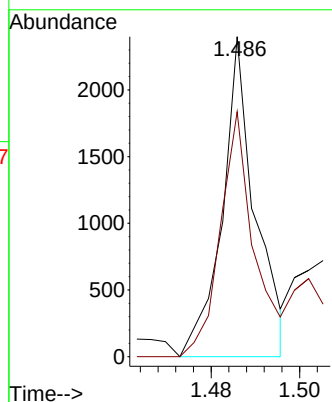
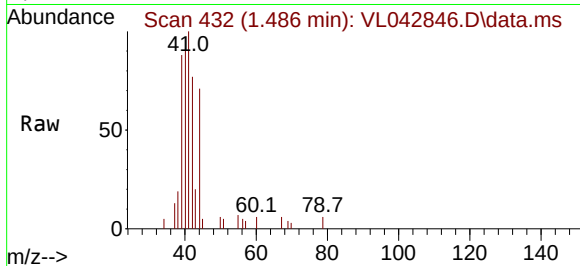




#9
 Propene
 Concen: 0.142 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

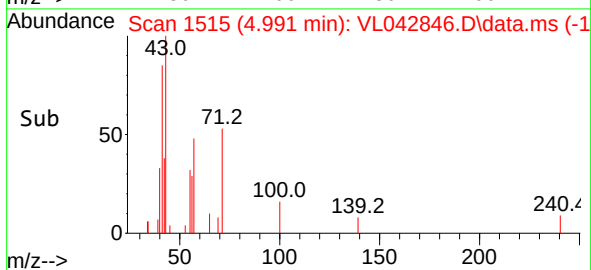
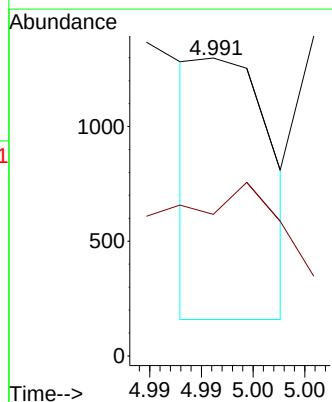
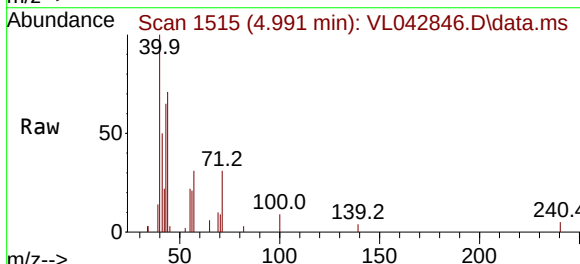
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

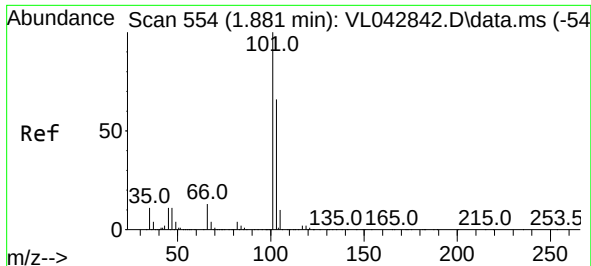
Tgt Ion: 41 Resp: 1233
 Ion Ratio Lower Upper
 41 100
 42 148.2 53.0 79.4#



#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#

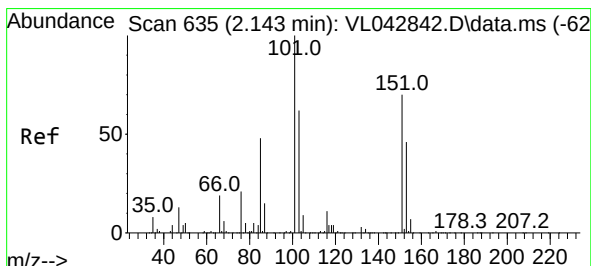
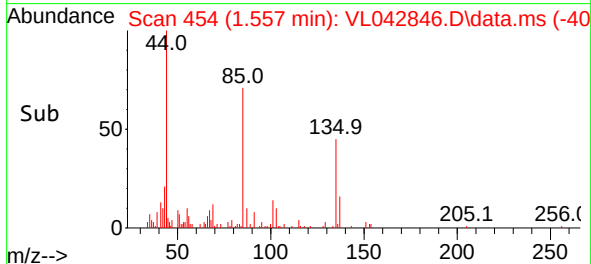
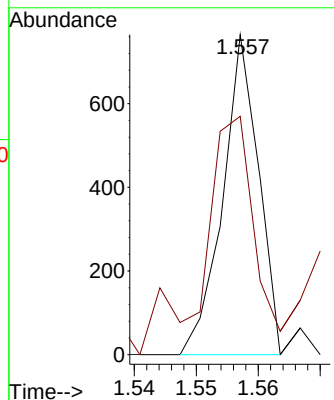
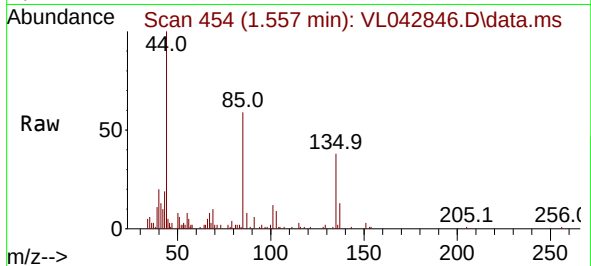




#11
 Trichlorofluoromethane
 Concen: 0.017 ppbv
 RT: 1.557 min Scan# 411
 Delta R.T. -0.324 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

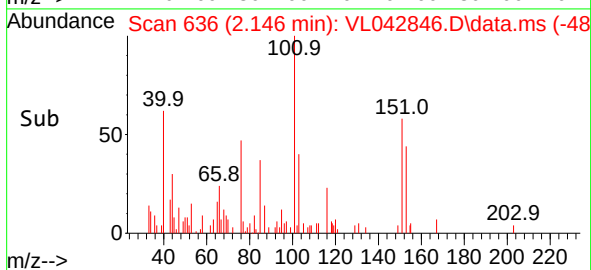
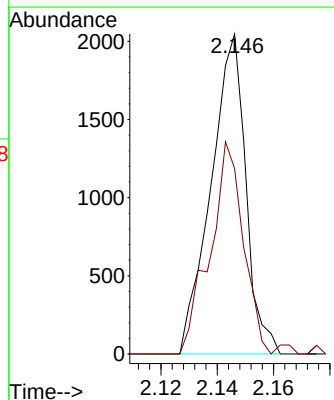
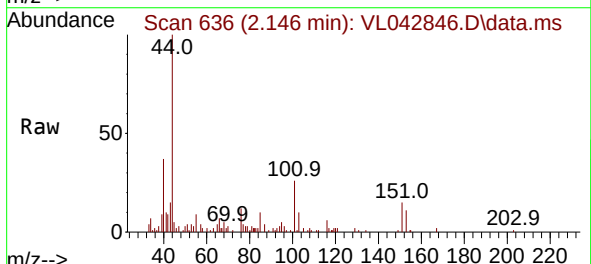
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

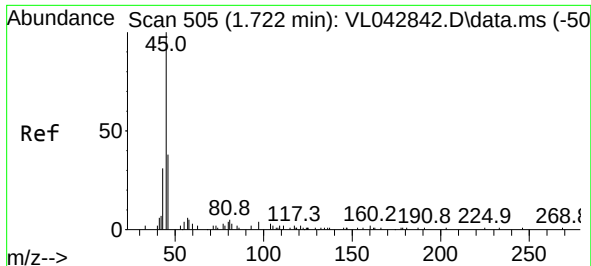
Tgt Ion:101 Resp: 307
 Ion Ratio Lower Upper
 101 100
 103 67.2 52.5 78.7



#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

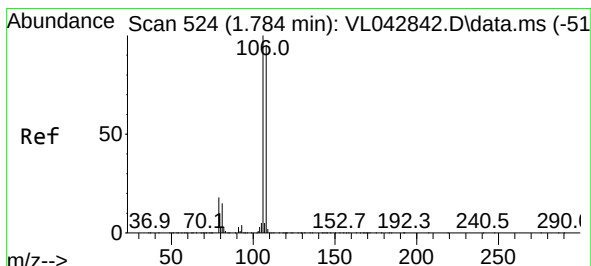
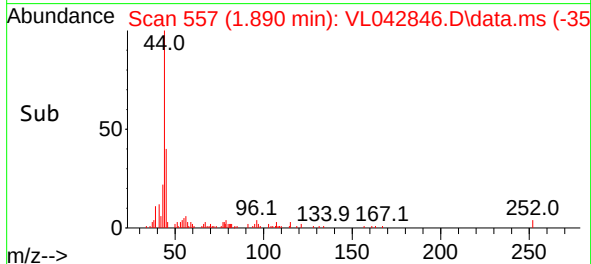
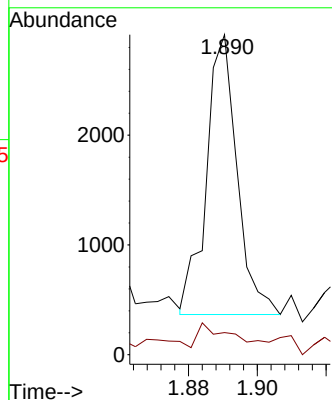
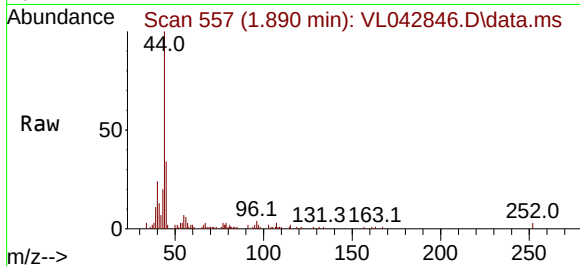




#13
Ethanol
Concen: 1.847 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.168 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

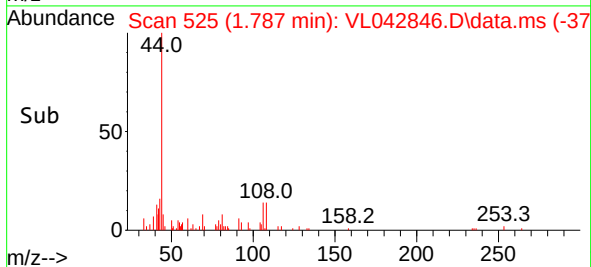
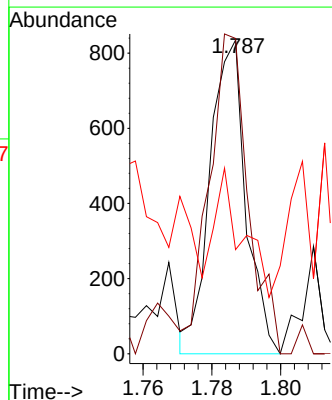
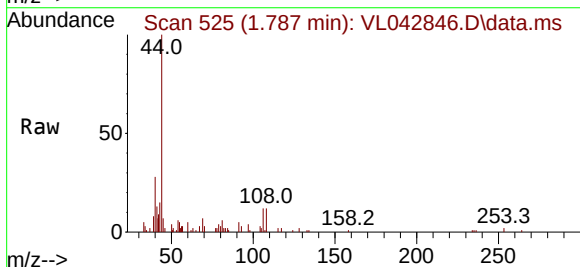
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

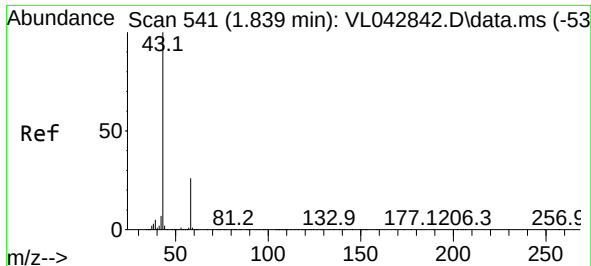
Tgt Ion: 45 Resp: 1584
Ion Ratio Lower Upper
45 100
46 30.6 17.5 69.9



#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#

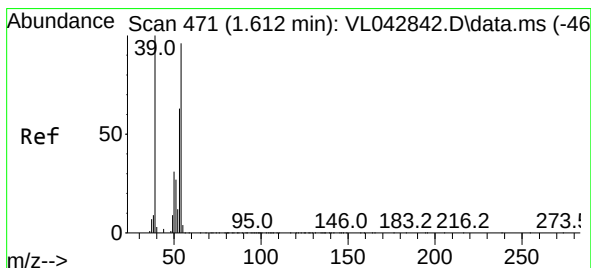
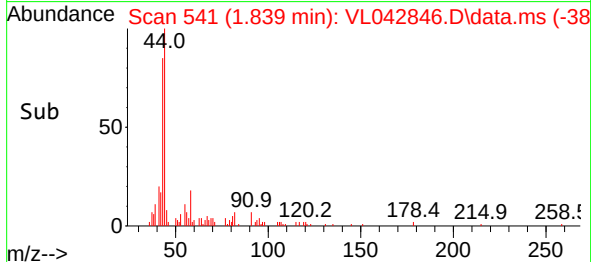
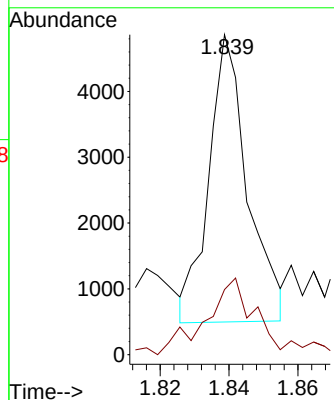
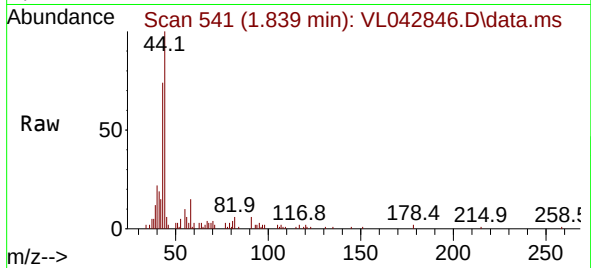




#15
Acetone
Concen: 0.208 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

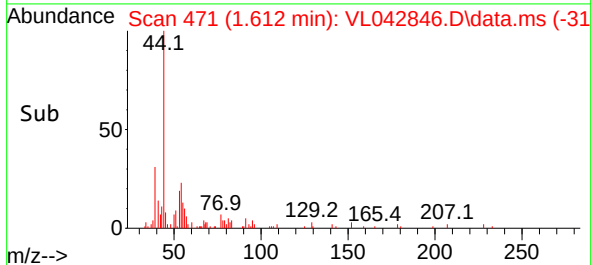
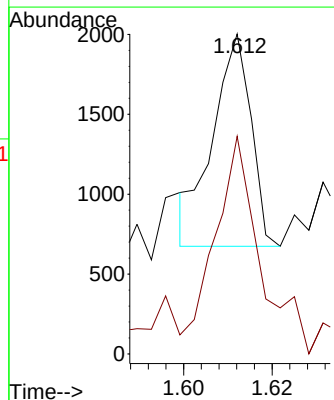
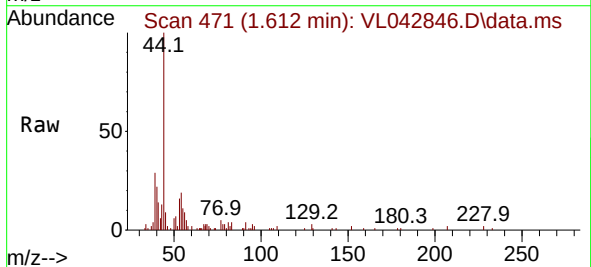
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

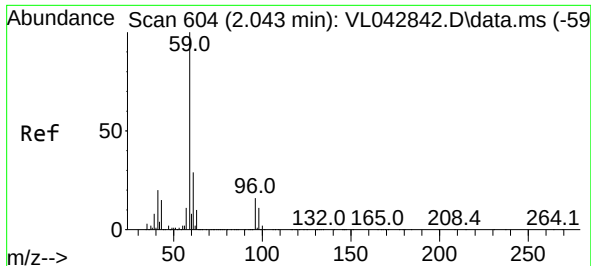
Tgt Ion: 43 Resp: 3411
Ion Ratio Lower Upper
43 100
58 42.9 22.4 33.6#



#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 :

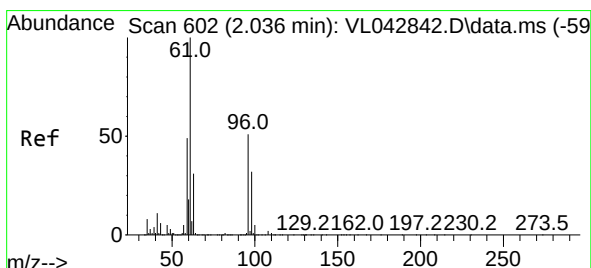
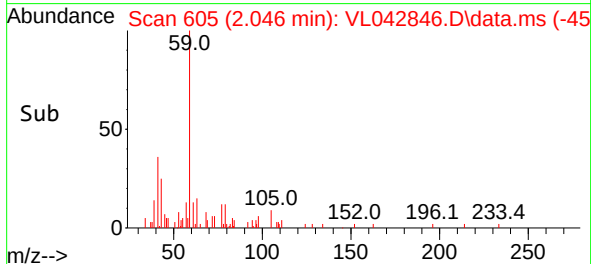
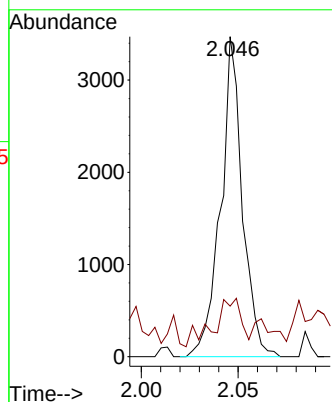
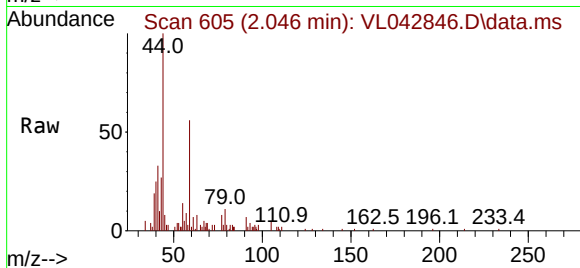
VSTDIC0.1

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

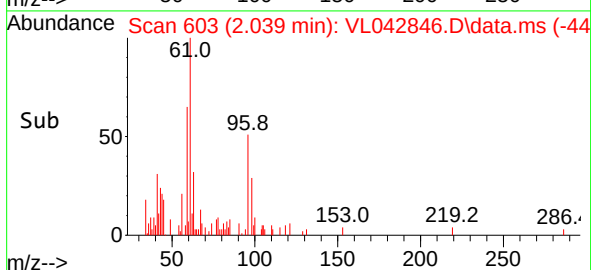
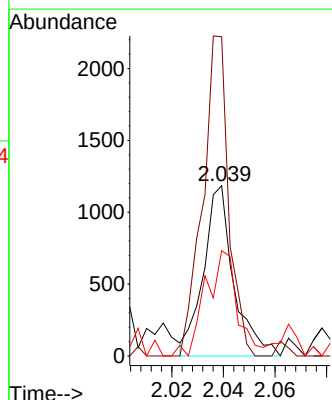
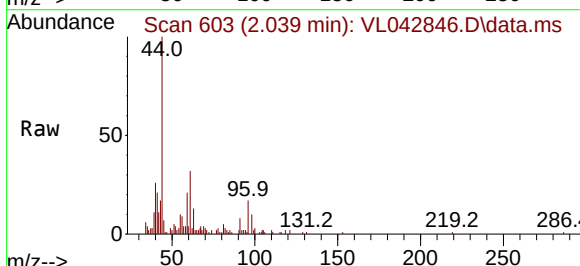
Tgt Ion: 96 Resp: 964

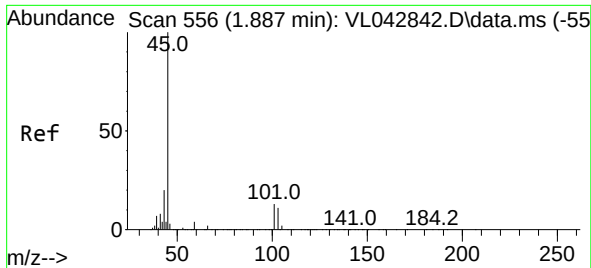
Ion Ratio Lower Upper

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 :

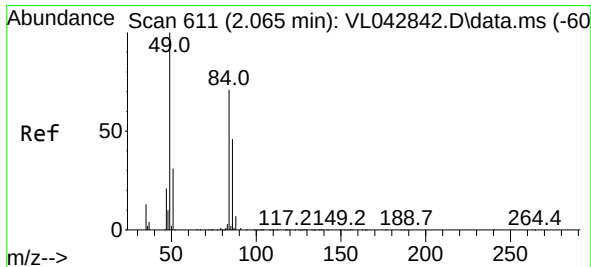
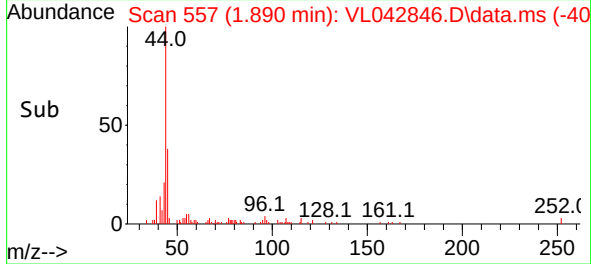
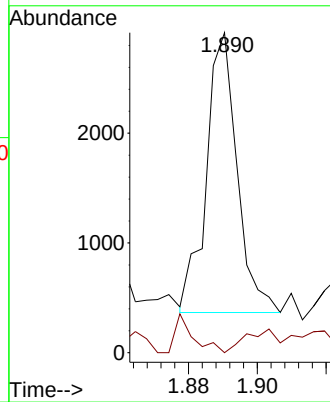
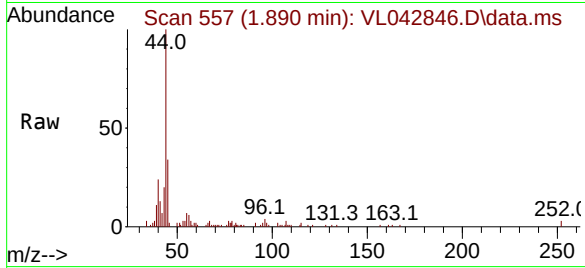
VSTDIC0.1

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

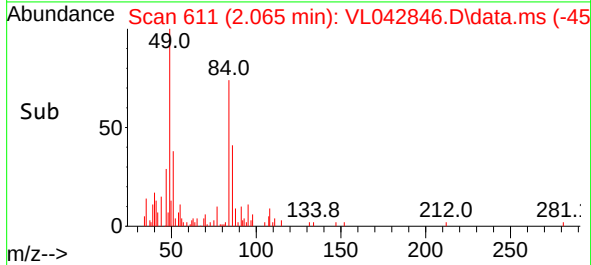
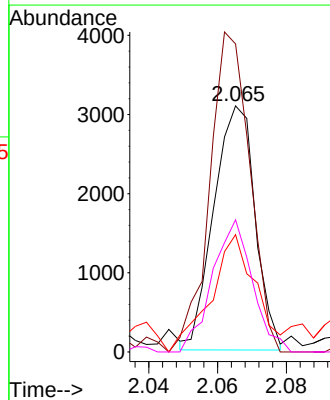
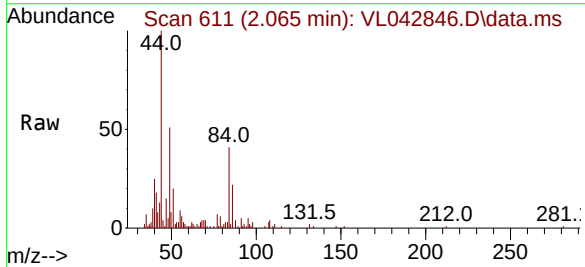
Ion Ratio Lower Upper

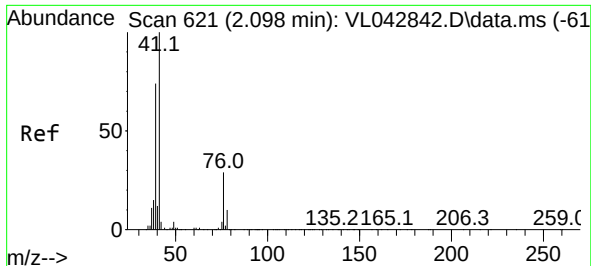
84 100

49 149.4 112.3 168.5

51 42.1 36.0 54.0

86 55.4 52.0 78.0

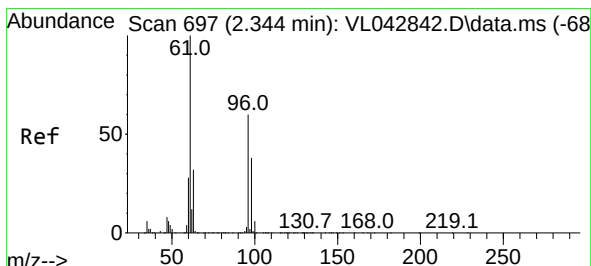
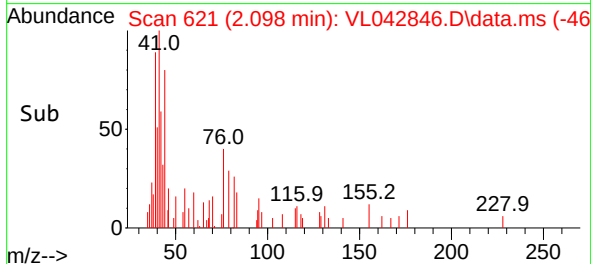
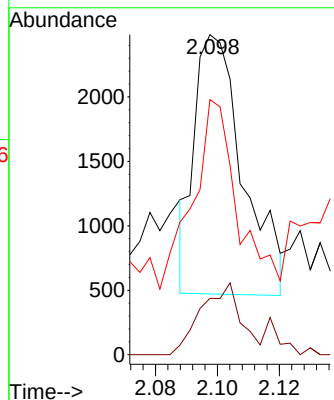
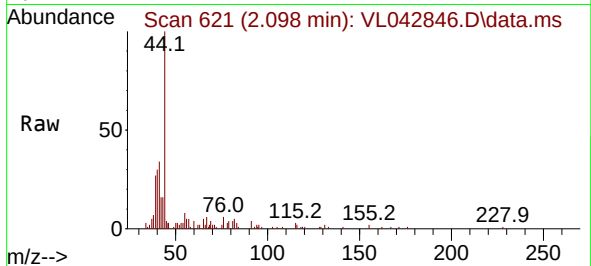




#21
 Allyl Chloride
 Concen: 0.190 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

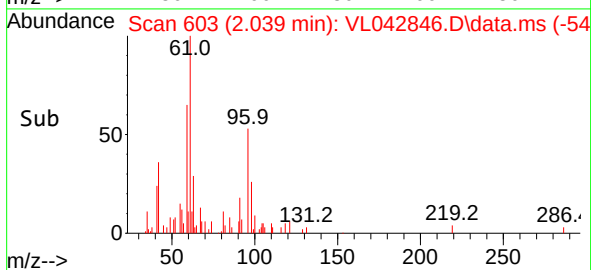
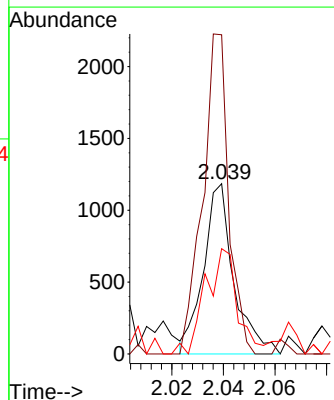
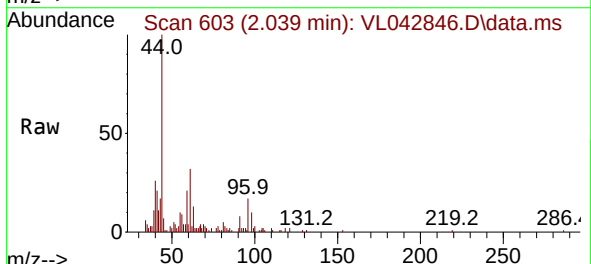
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

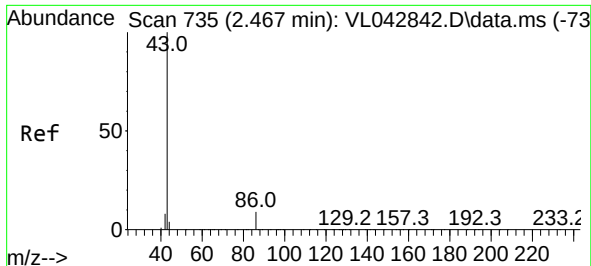
Tgt Ion: 41	Resp:	2198
Ion	Ratio	Lower Upper
41	100	
76	27.2	23.9 35.9
39	109.1	57.8 86.6#



#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

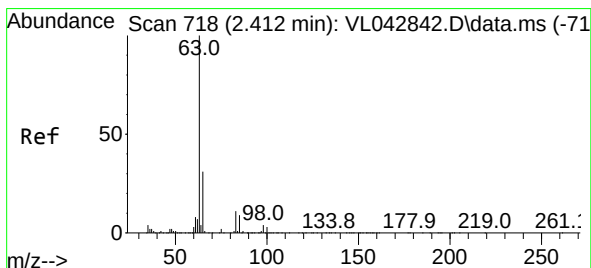
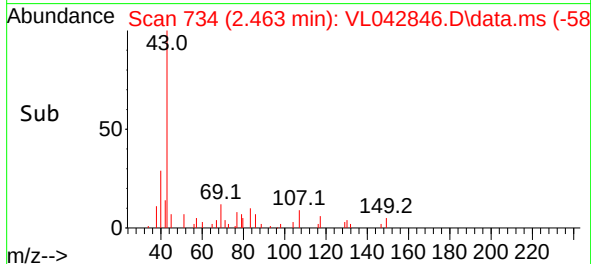
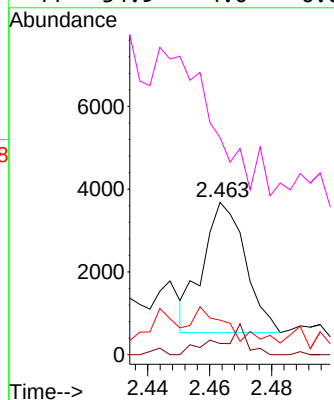
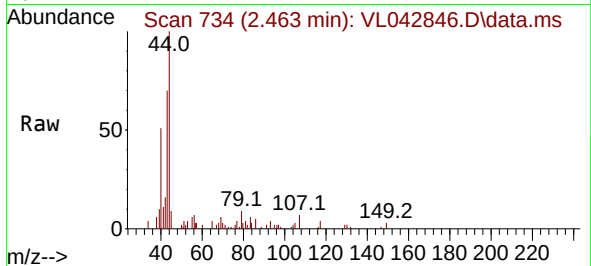




#23
 Vinyl Acetate
 Concen: 0.139 ppbv
 RT: 2.463 min Scan# 719
 Delta R.T. -0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

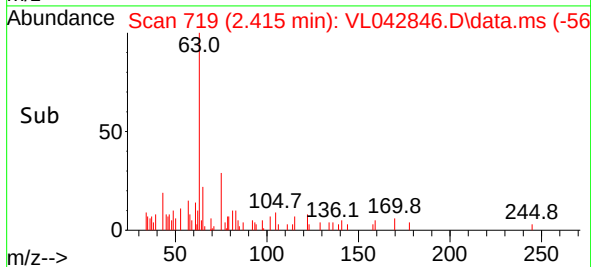
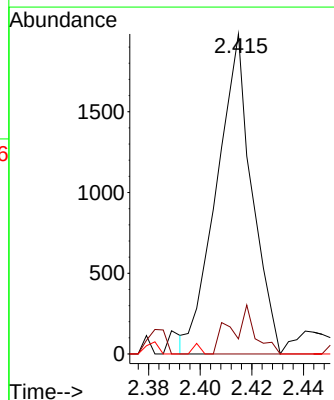
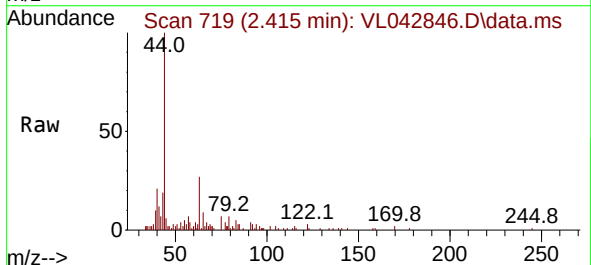
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

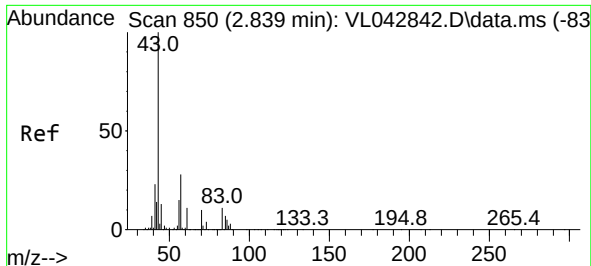
Tgt Ion: 43	Resp: 3002
Ion Ratio	Lower Upper
43 100	
86 8.6	6.6 9.8
42 17.6	7.0 10.6#
44 34.9	4.0 6.0#



#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_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 1206

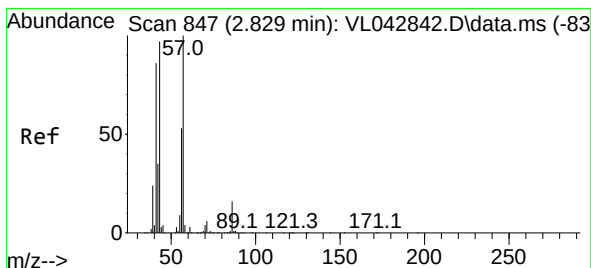
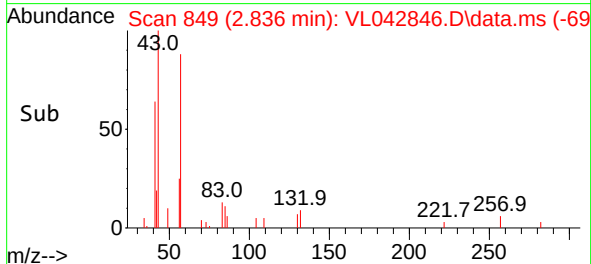
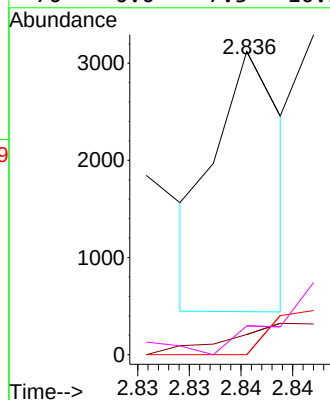
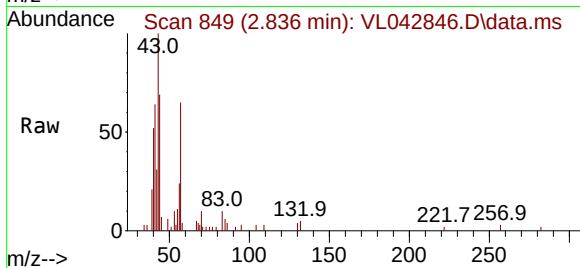
Ion Ratio Lower Upper

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

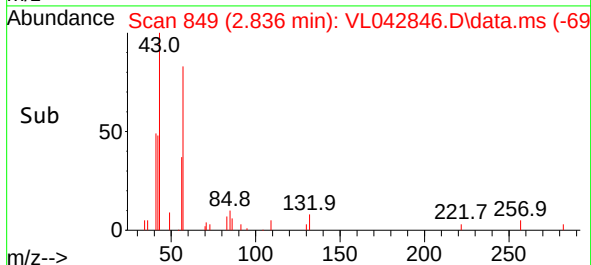
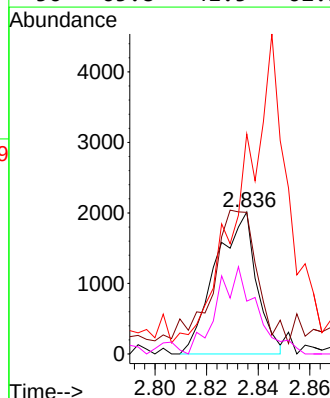
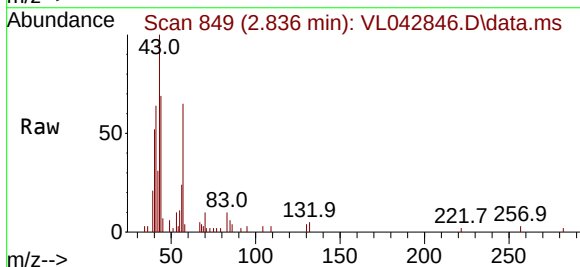
Ion Ratio Lower Upper

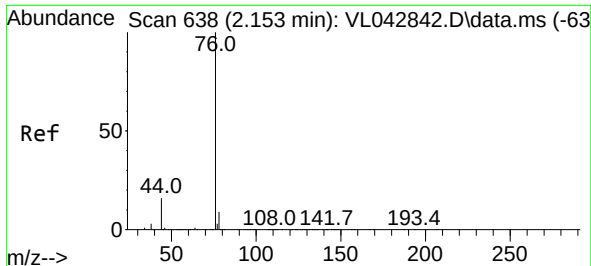
57 100

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

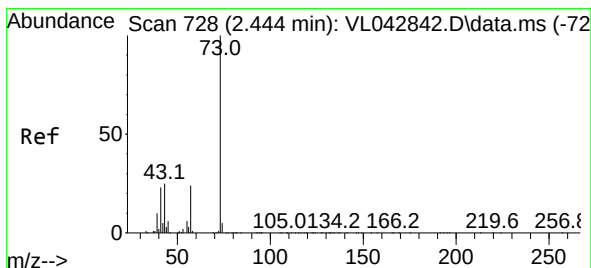
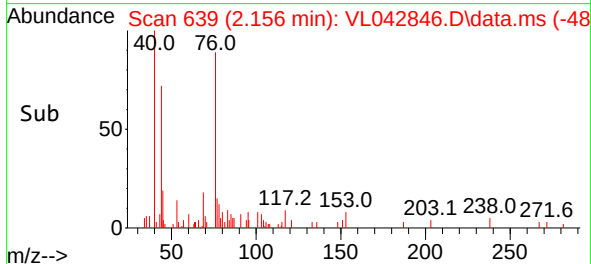
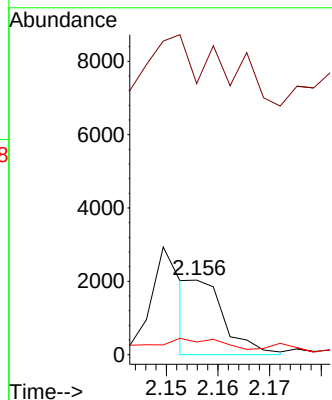
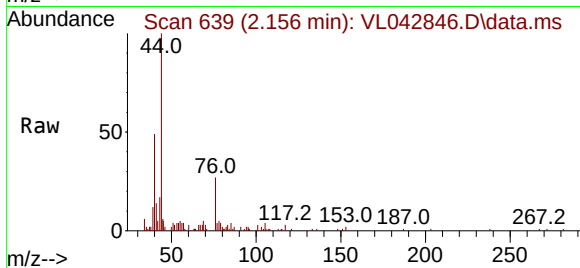
Tgt Ion: 76 Resp: 965

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

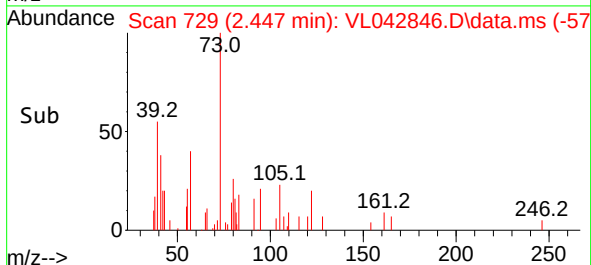
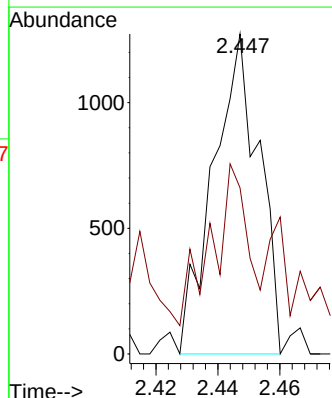
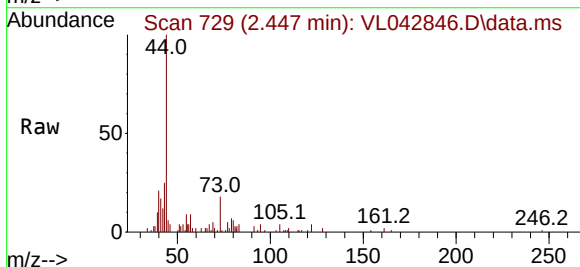
Acq: 13 Aug 2025 10:53

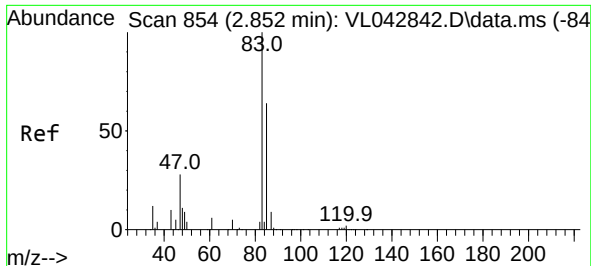
Tgt Ion: 73 Resp: 1300

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 :

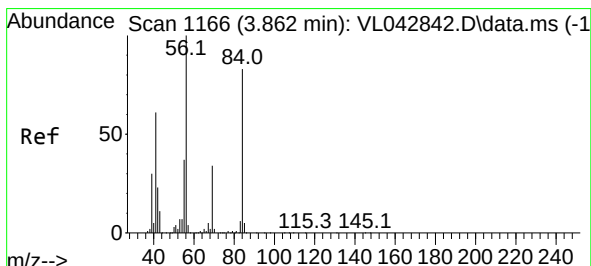
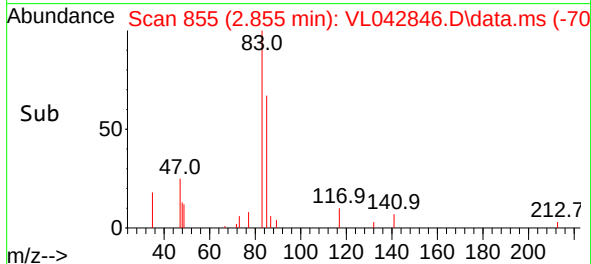
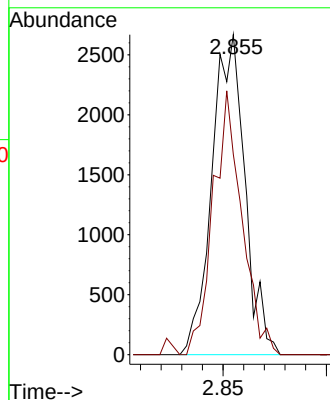
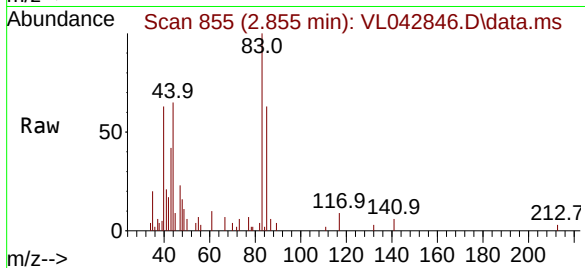
VSTDIC0.1

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

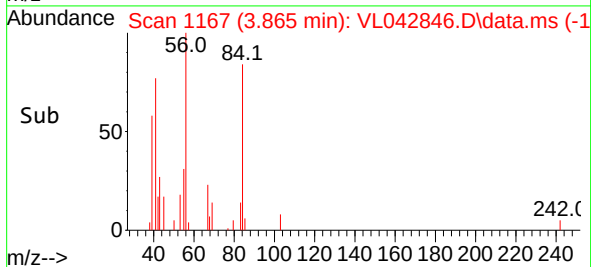
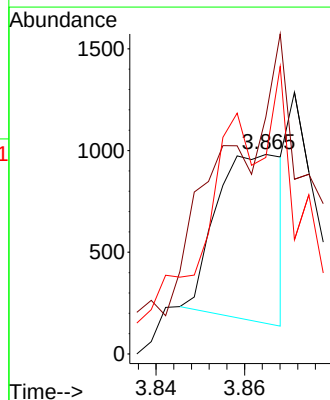
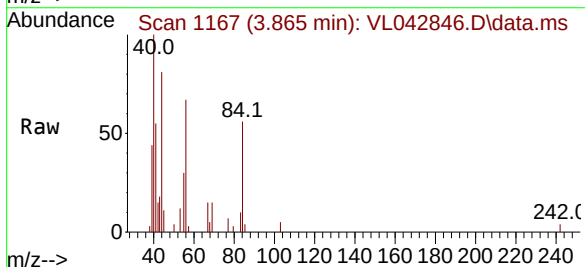
Tgt Ion: 84 Resp: 835

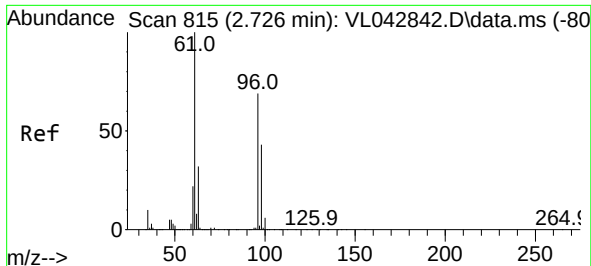
Ion Ratio Lower Upper

84 100

56 0.0 98.8 148.2#

41 0.0 61.3 91.9#

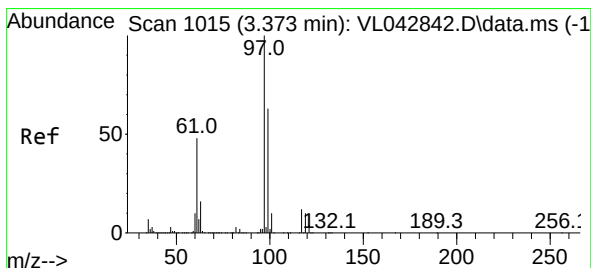
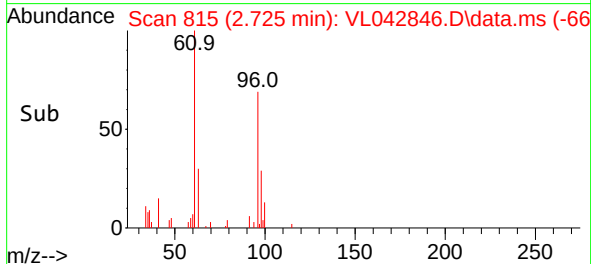
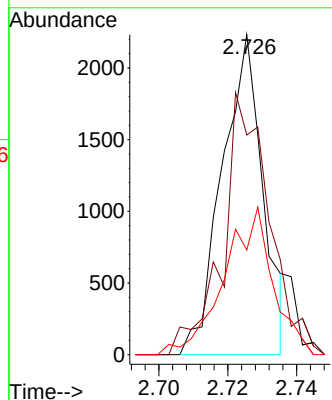
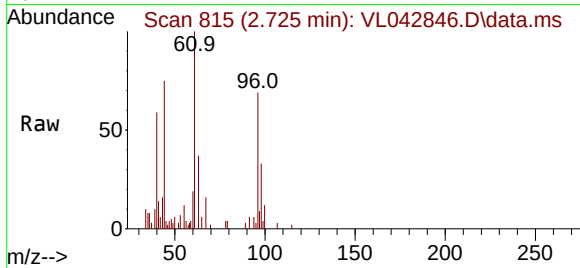




#31
 cis-1,2-Dichloroethene
 Concen: 0.101 ppbv
 RT: 2.725 min Scan# 815
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

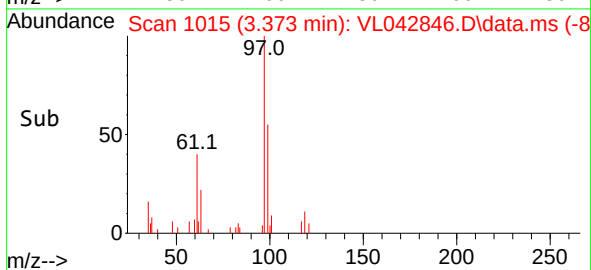
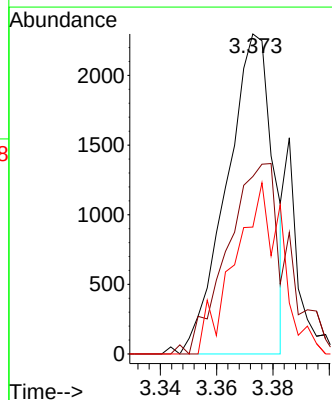
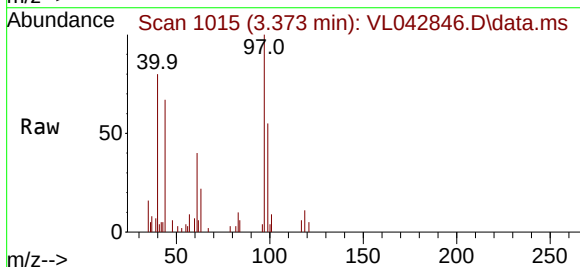
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

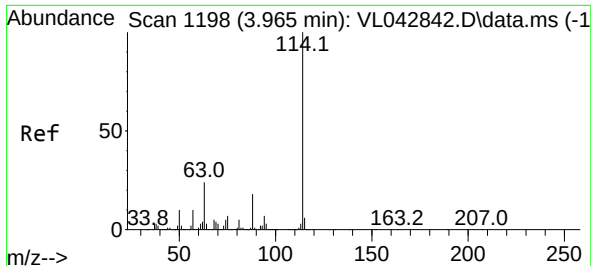
Tgt Ion: 61	Resp: 1839
Ion Ratio	Lower Upper
61	100
96	60.0 55.0 82.6
98	30.3 34.3 51.5#



#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

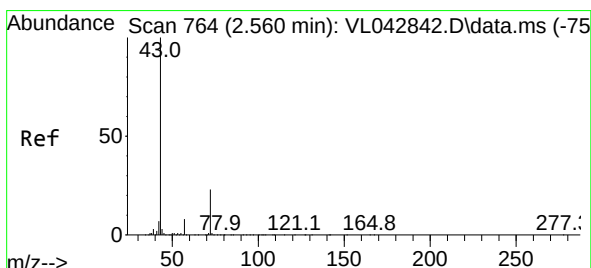
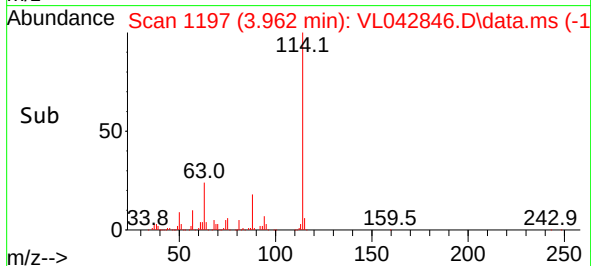
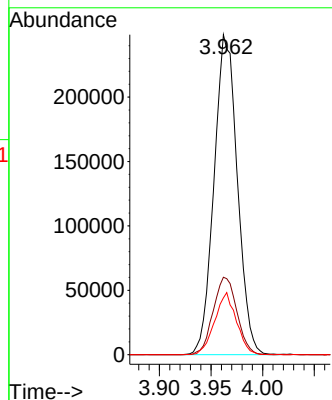
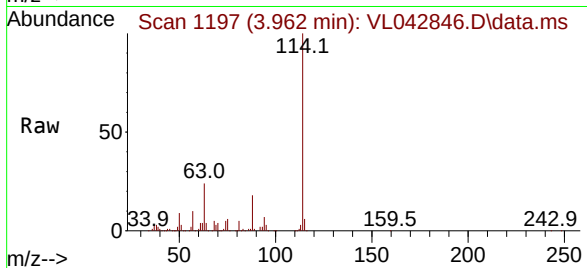
Tgt Ion:114 Resp: 390520

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

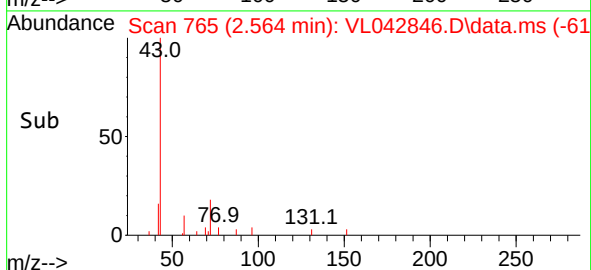
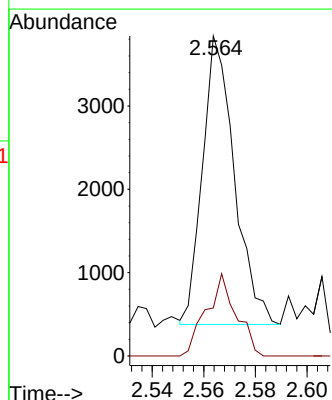
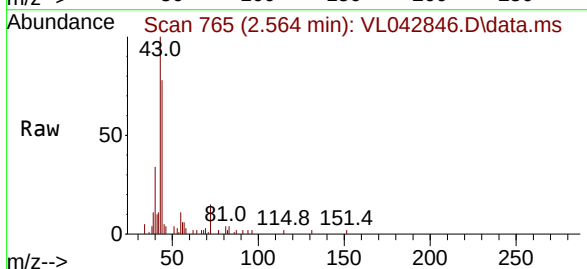
Acq: 13 Aug 2025 10:53

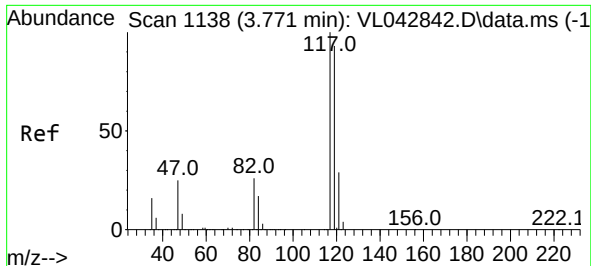
Tgt Ion: 43 Resp: 2970

Ion Ratio Lower Upper

43 100

72 26.7 18.6 28.0

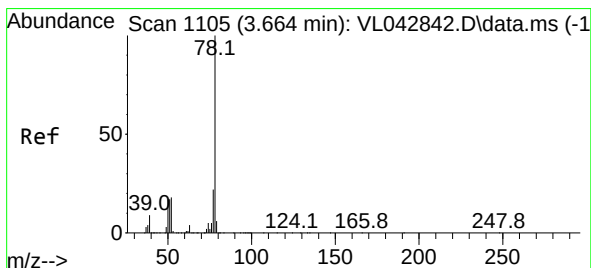
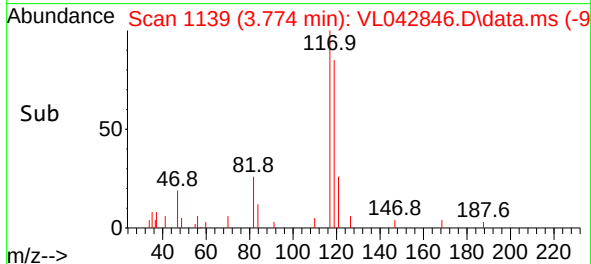
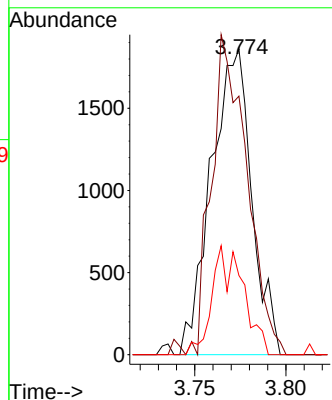
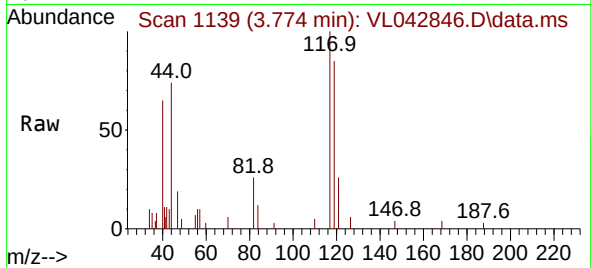




#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

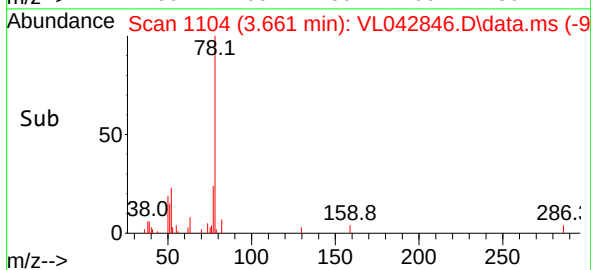
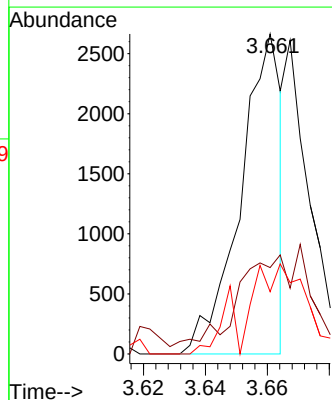
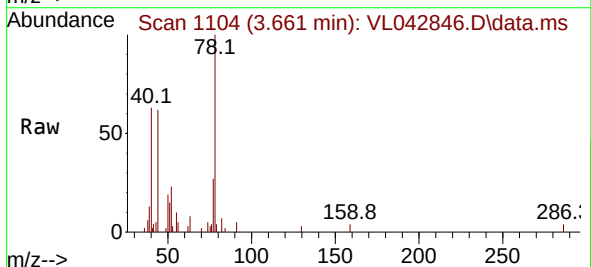
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

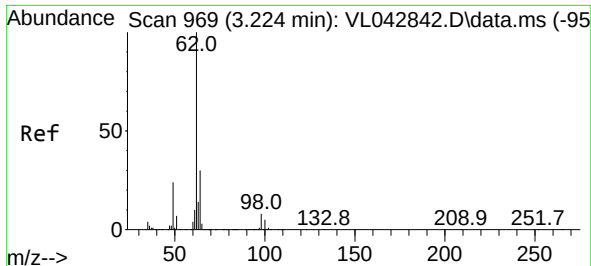
Tgt Ion:117 Resp: 2883
Ion Ratio Lower Upper
117 100
119 81.8 74.7 112.1
121 25.9 23.2 34.8



#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_1

ClientSampleId :

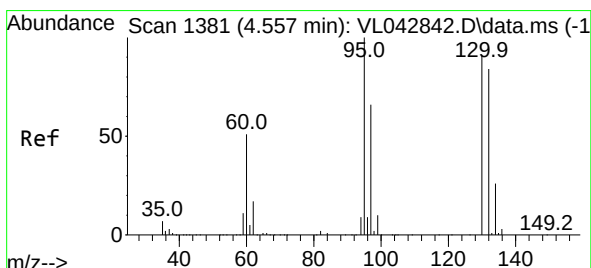
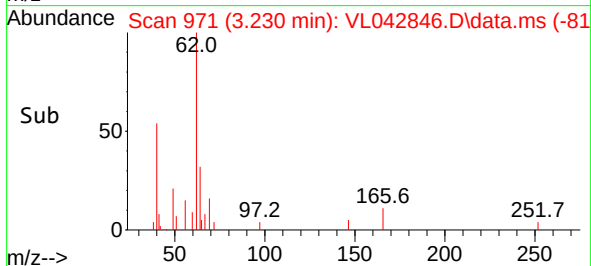
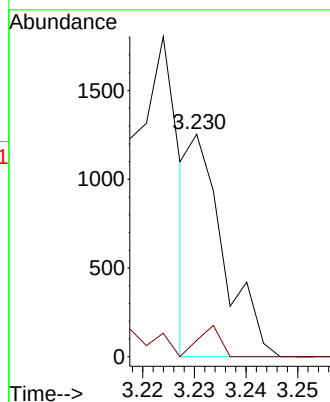
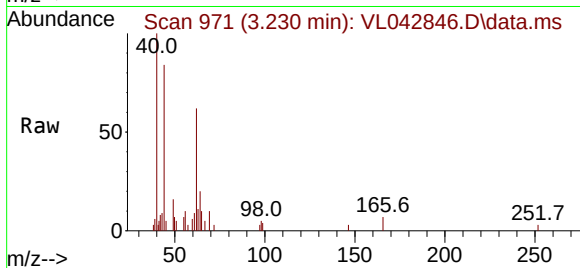
VSTDIC0.1

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

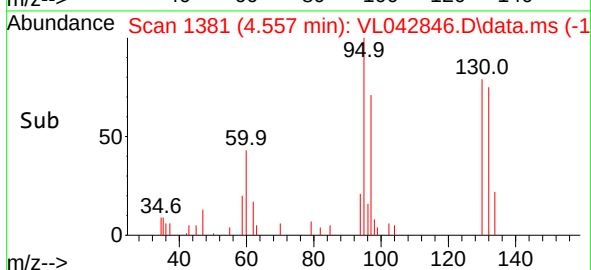
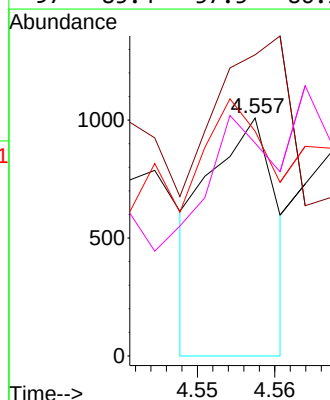
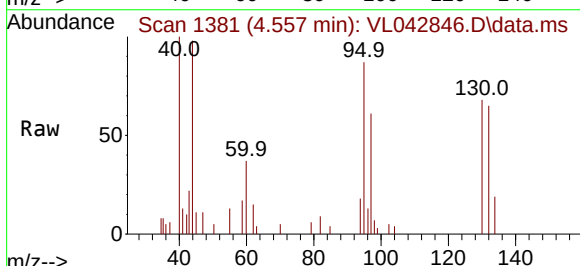
Ion Ratio Lower Upper

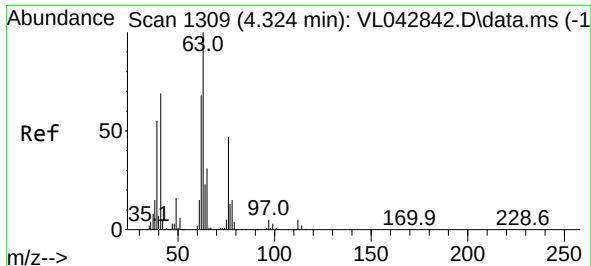
130 100

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

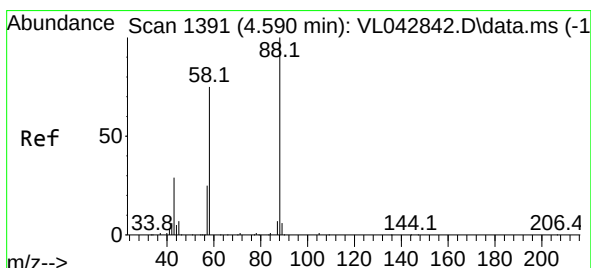
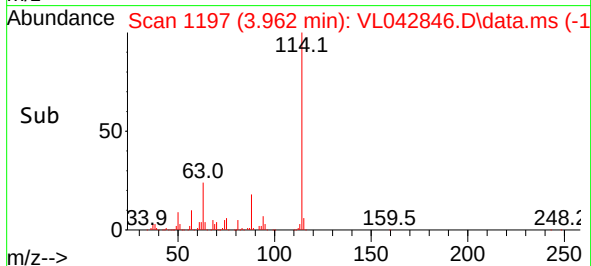
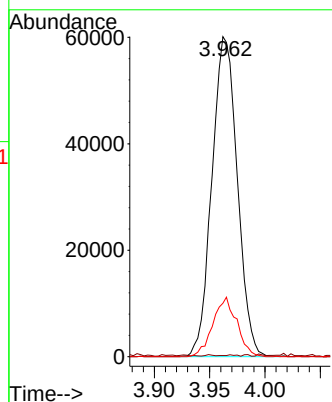
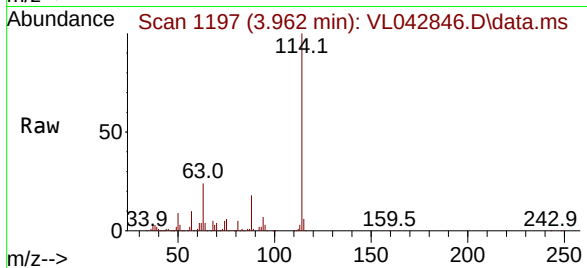
Tgt Ion: 63 Resp: 96098

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

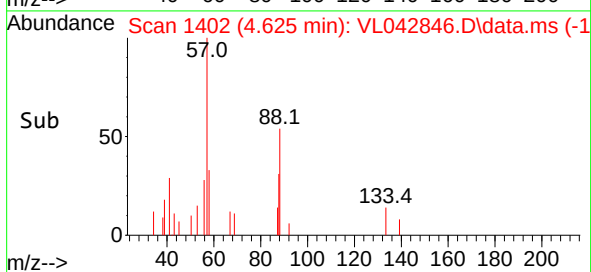
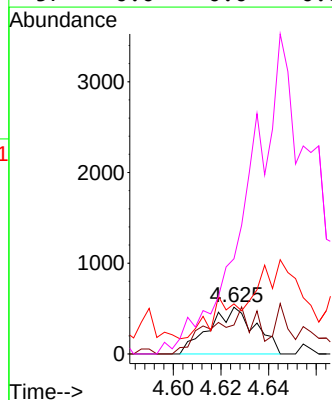
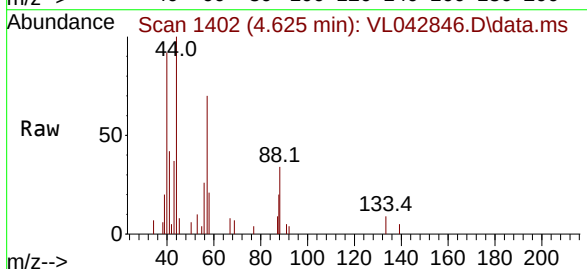
Ion Ratio Lower Upper

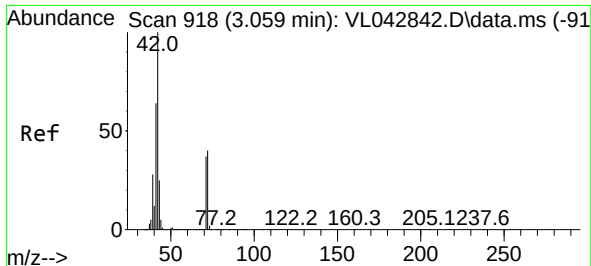
88 100

58 0.0 53.8 80.6#

43 71.0 22.8 34.2#

57 0.0 0.0 0.0

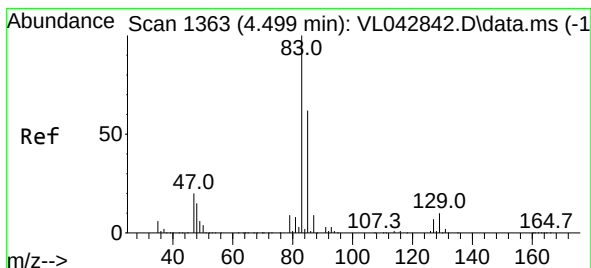
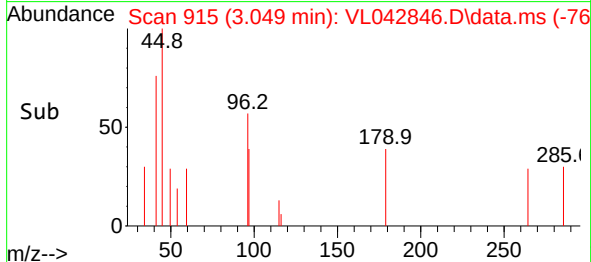
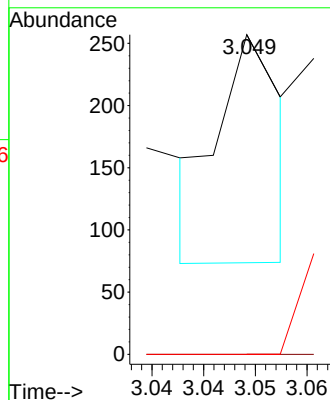
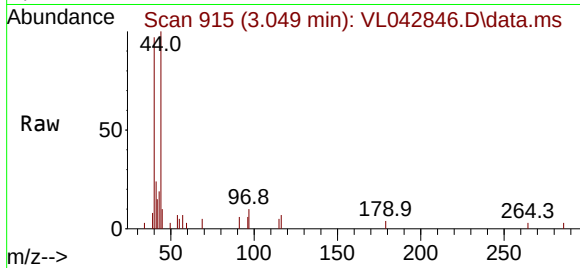




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.049 min Scan# 918
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

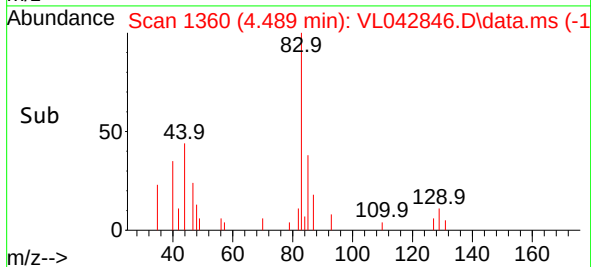
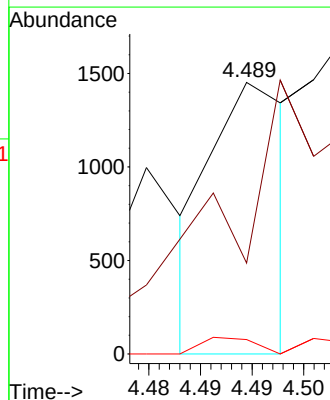
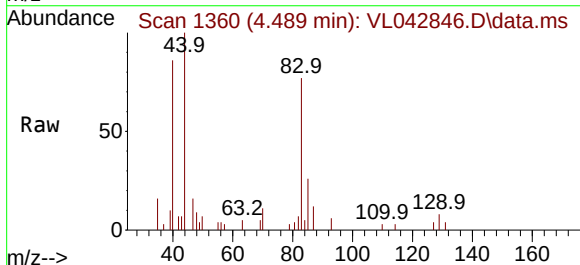
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

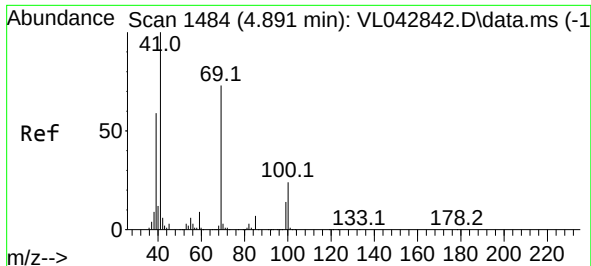
Tgt Ion: 42 Resp: 78
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8#
71 0.0 30.0 45.0#



#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#

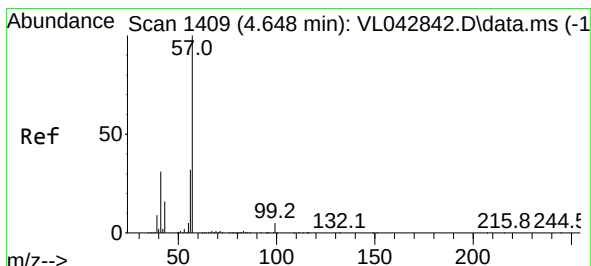
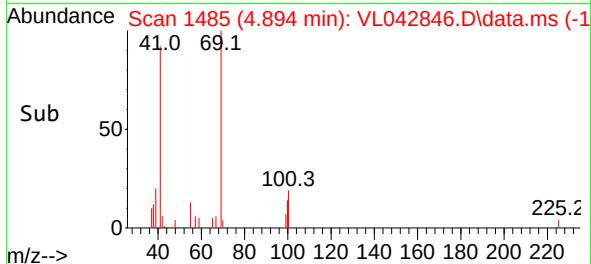
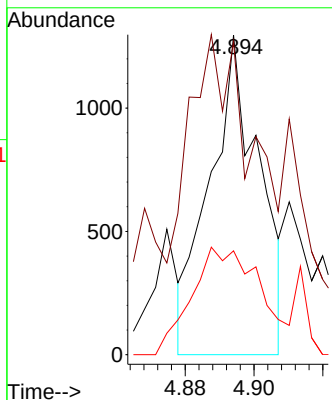
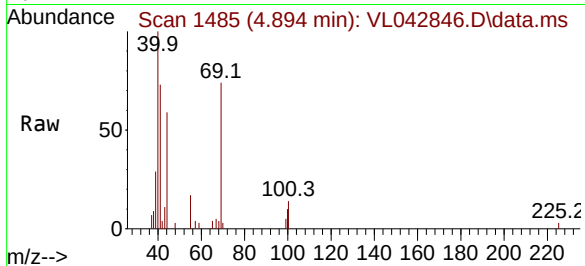




#43
Methyl Methacrylate
Concen: 0.084 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

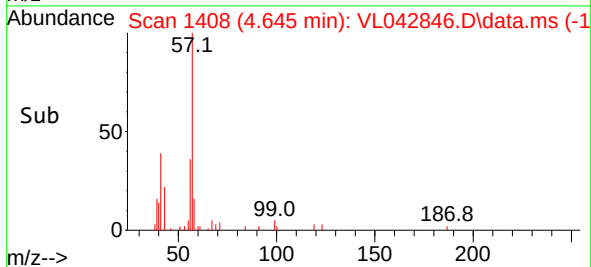
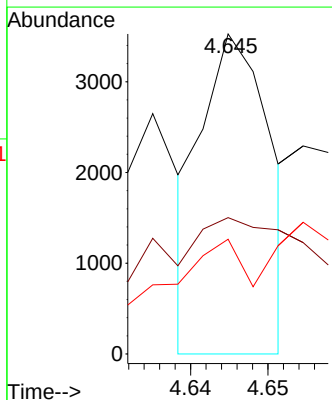
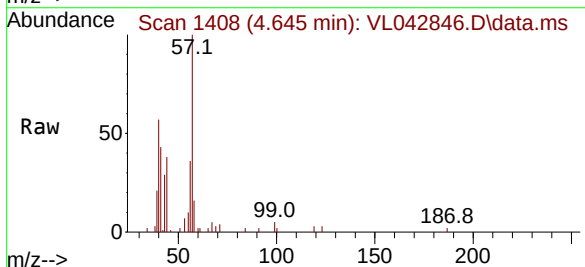
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

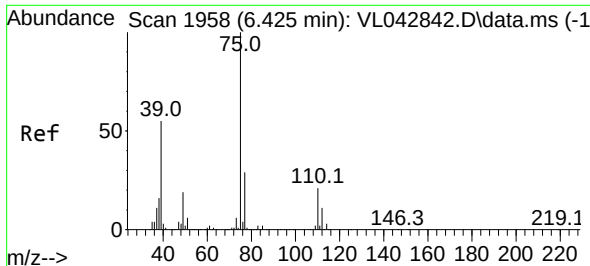
Tgt Ion: 69 Resp: 1289
Ion Ratio Lower Upper
69 100
41 194.8 114.6 172.0#
100 55.2 30.2 45.4#



#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#

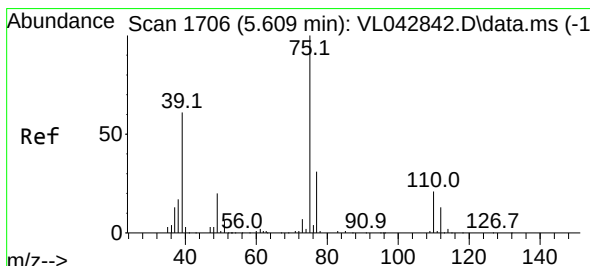
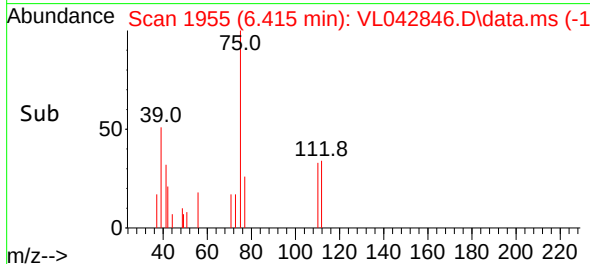
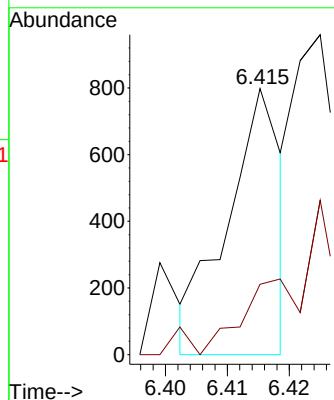
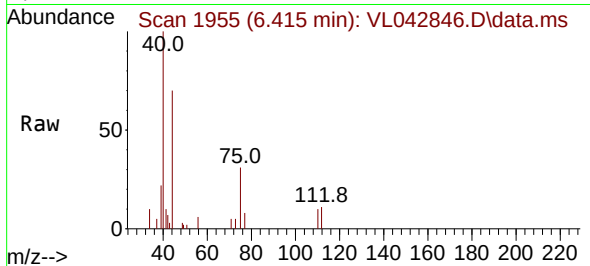




#45
 t-1,3-Dichloropropene
 Concen: 0.028 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.010 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

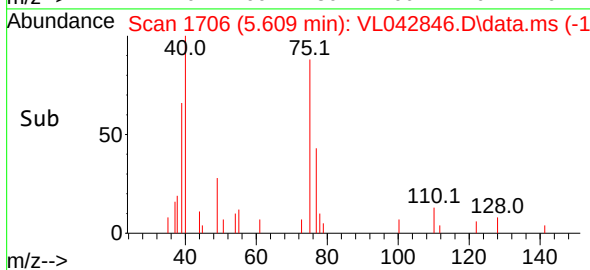
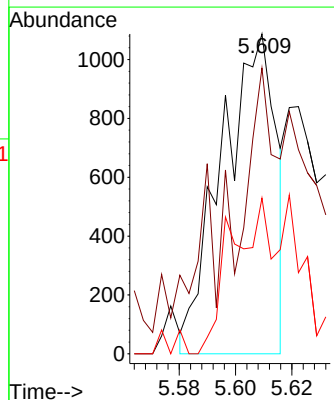
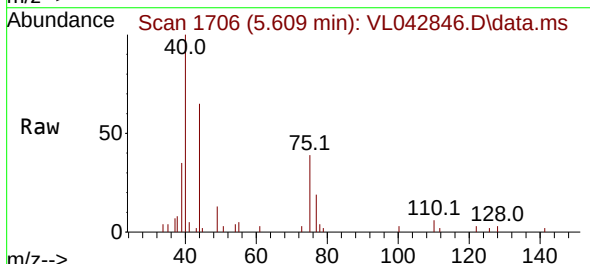
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

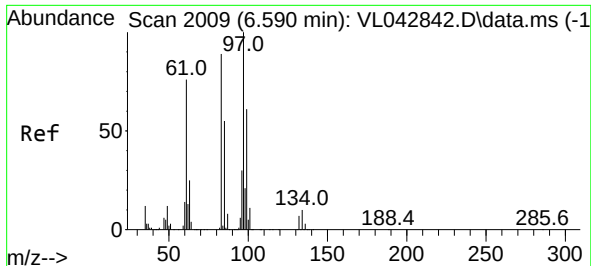
Tgt Ion: 75 Resp: 486
 Ion Ratio Lower Upper
 75 100
 77 26.4 23.8 35.6



#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_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 260

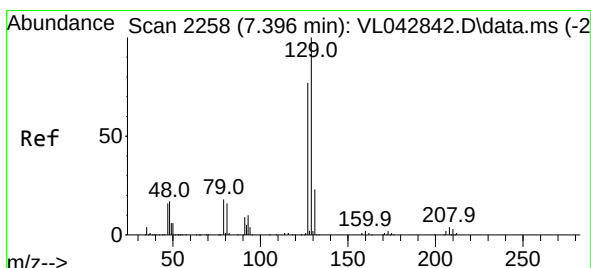
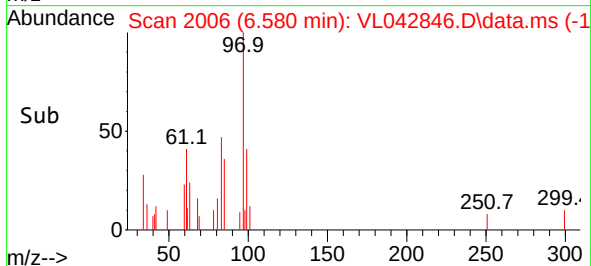
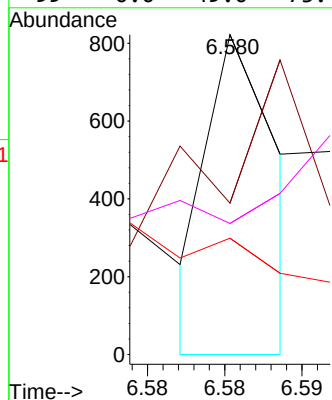
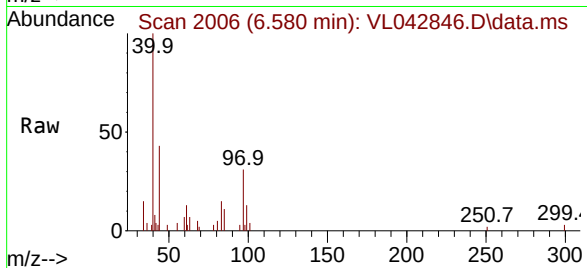
Ion Ratio Lower Upper

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

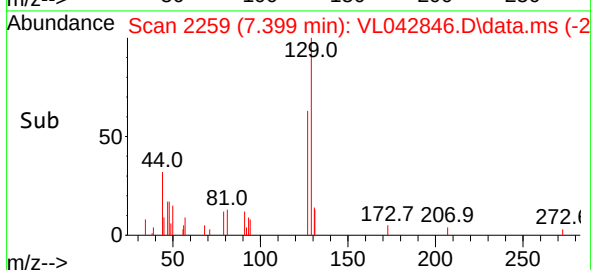
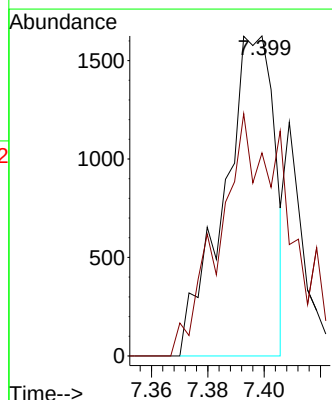
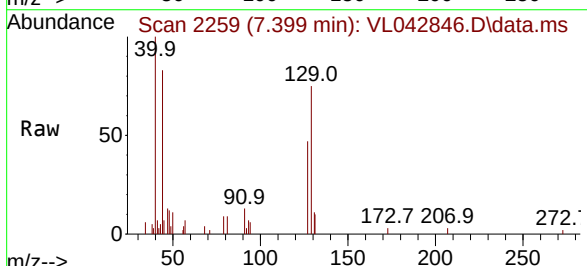
Acq: 13 Aug 2025 10:53

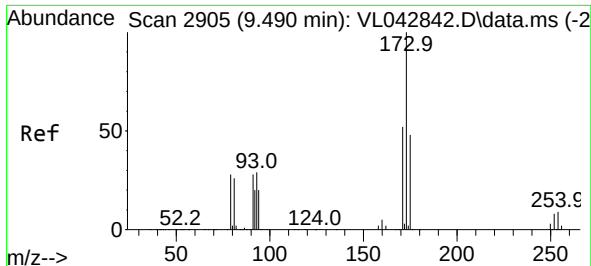
Tgt Ion: 129 Resp: 2052

Ion Ratio Lower Upper

129 100

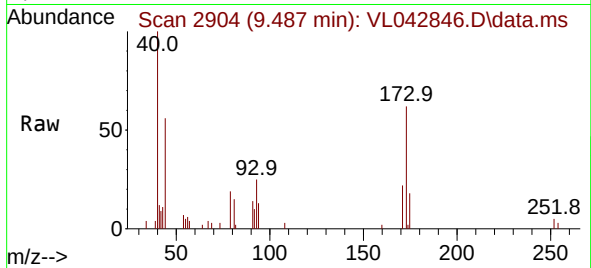
127 101.4 39.4 118.2



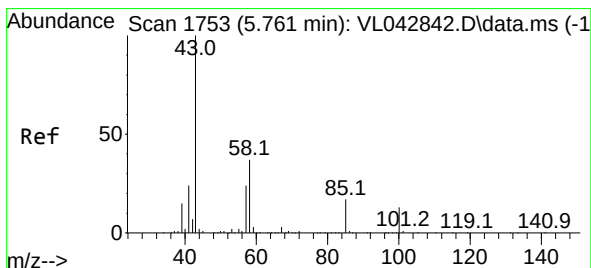
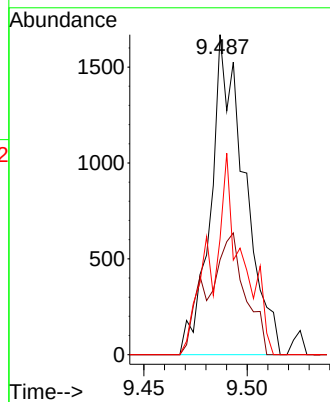
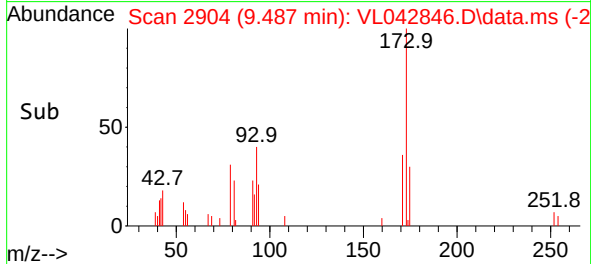


#49
Bromoform
Concen: 0.099 ppbv
RT: 9.487 min Scan# 2905
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

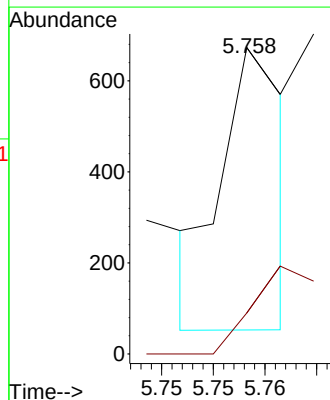
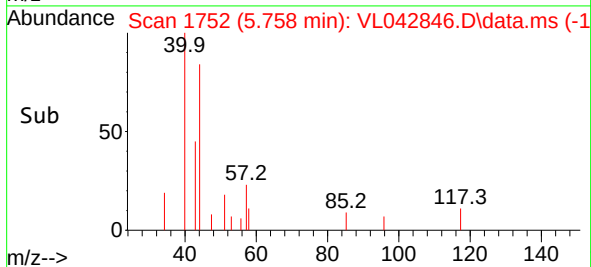
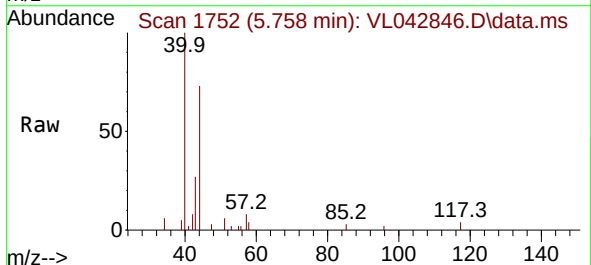


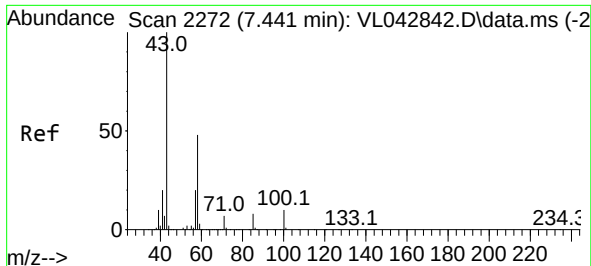
Tgt Ion:173 Resp: 1909
Ion Ratio Lower Upper
173 100
175 42.4 39.2 58.8
171 57.5 41.3 61.9



#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#

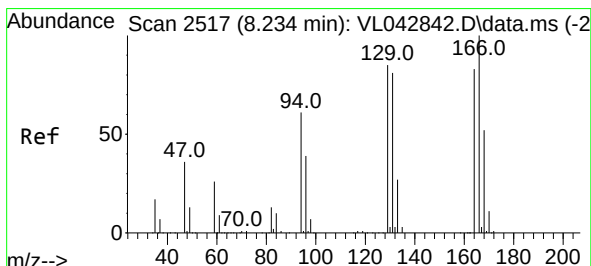
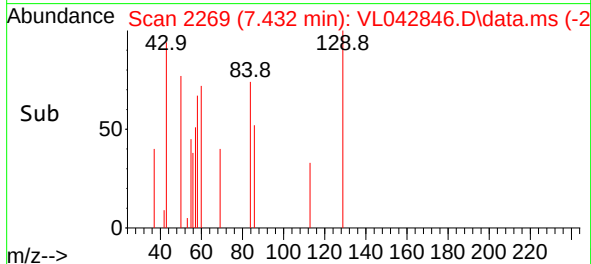
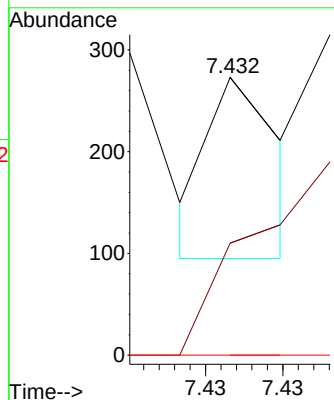
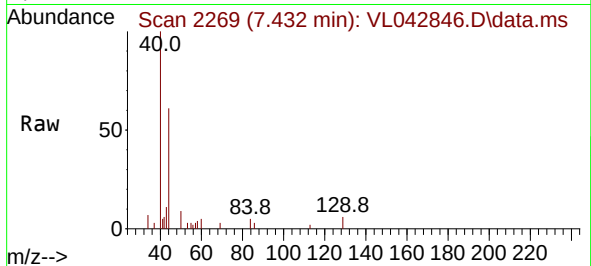




#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

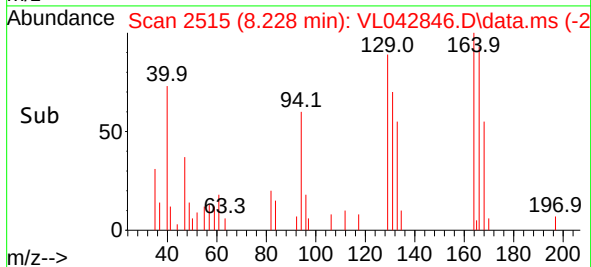
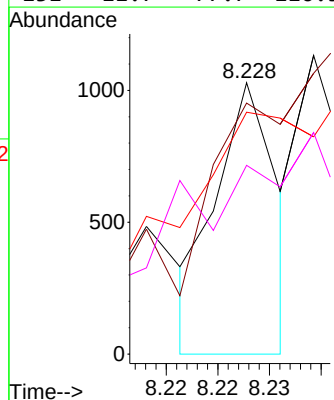
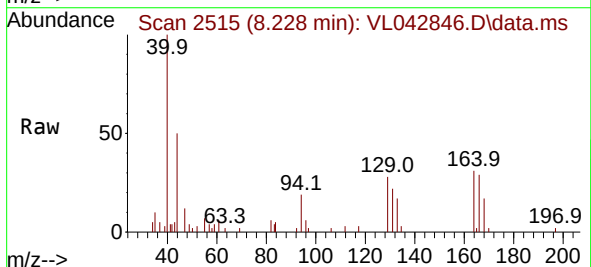
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

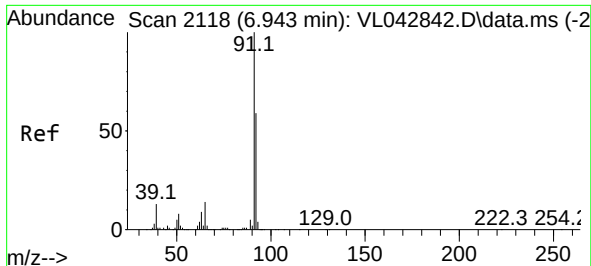
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#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#

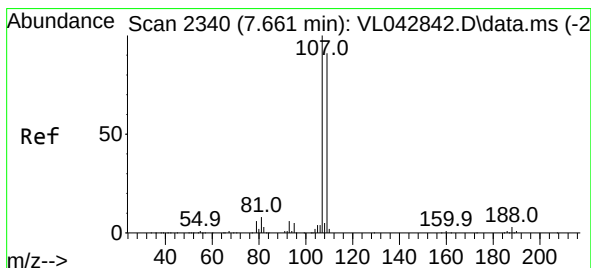
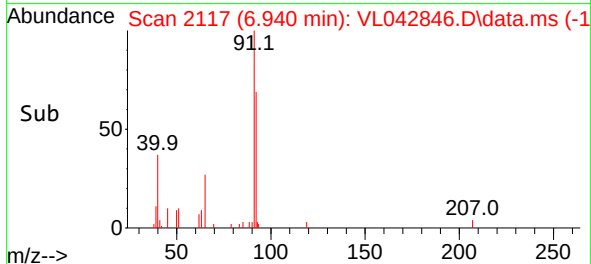
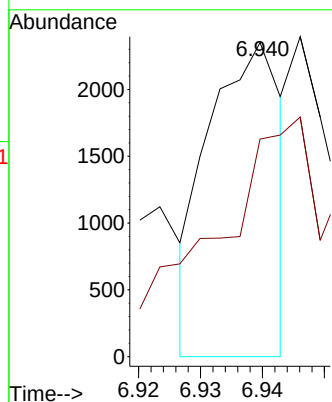
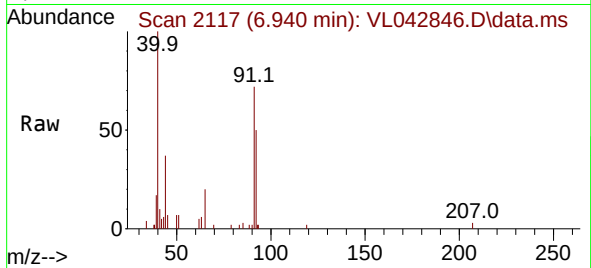




#53
Toluene
Concen: 0.043 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

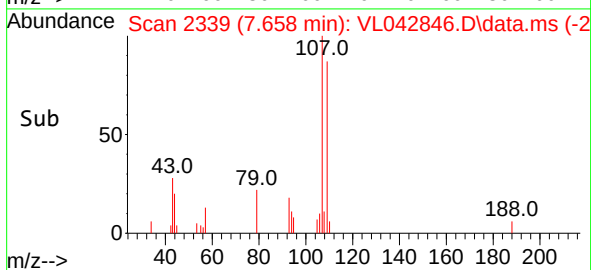
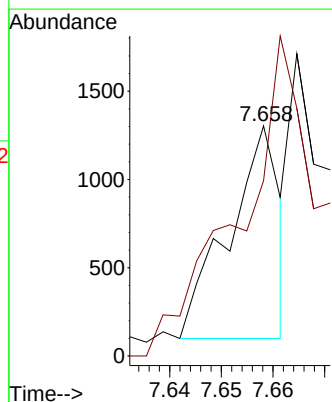
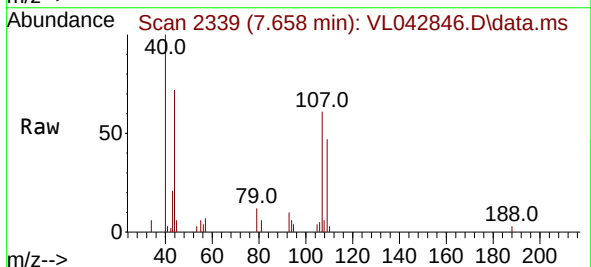
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

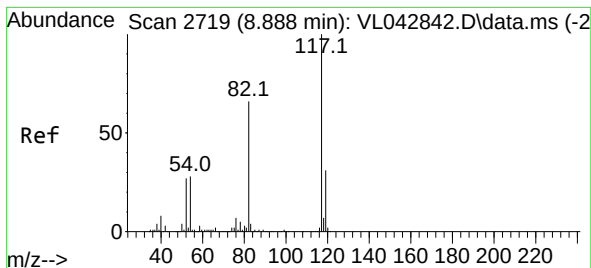
Tgt Ion: 91 Resp: 1918
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6#



#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

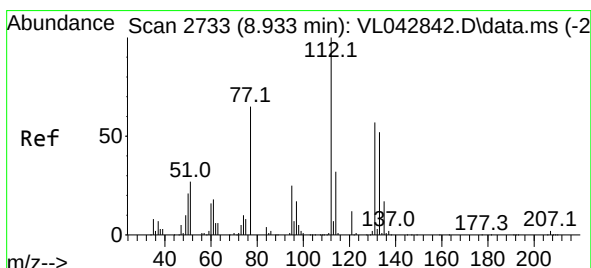
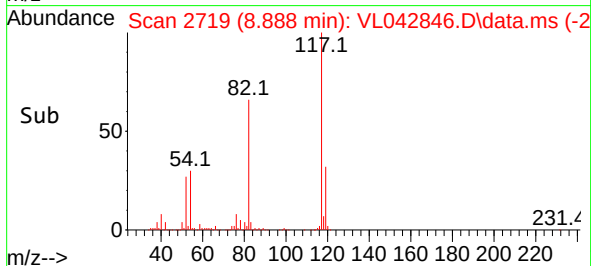
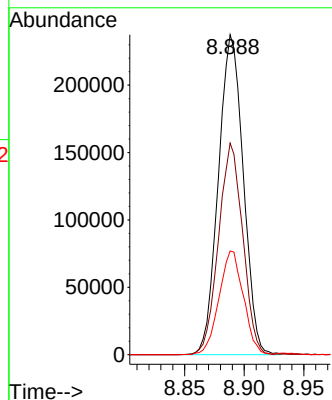
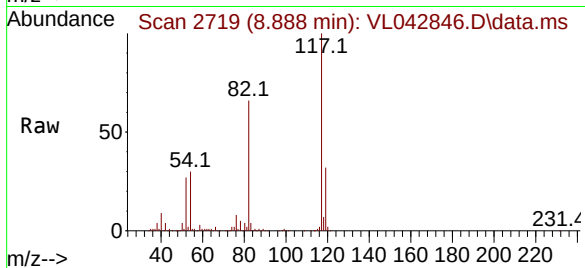
Tgt Ion:117 Resp: 345073

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

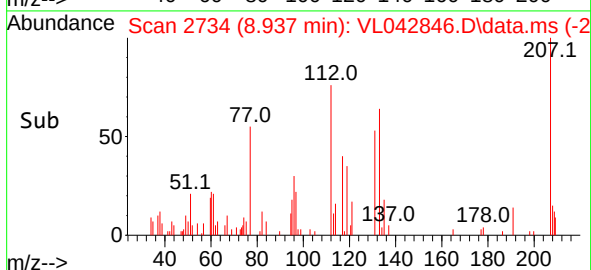
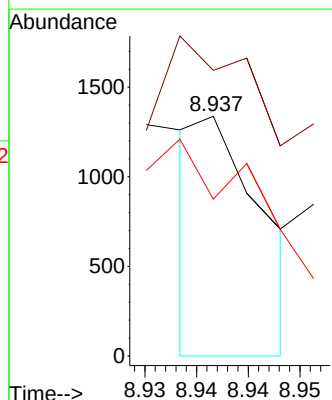
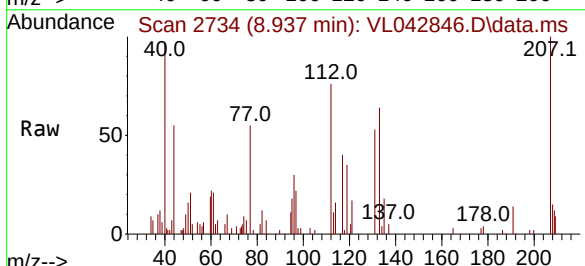
Tgt Ion:131 Resp: 573

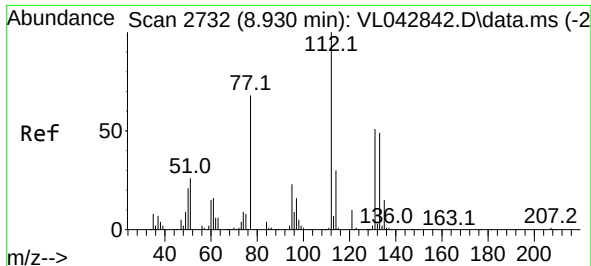
Ion Ratio Lower Upper

131 100

133 500.2 77.4 116.0#

119 0.0 51.2 76.8#

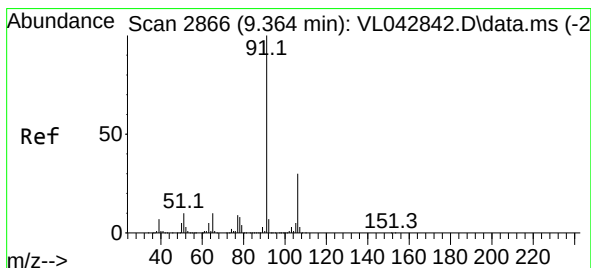
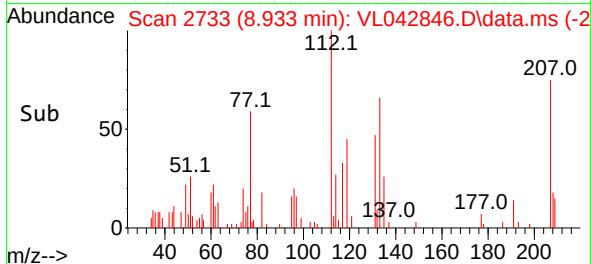
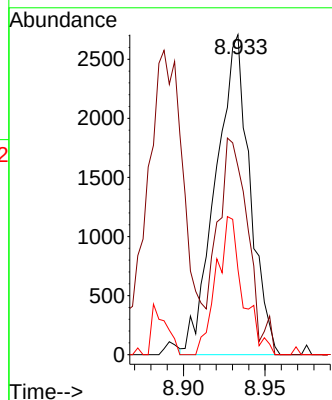
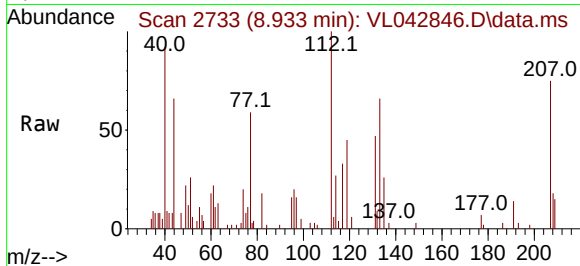




#57
Chlorobenzene
Concen: 0.120 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

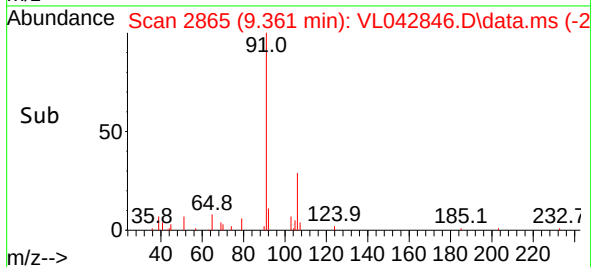
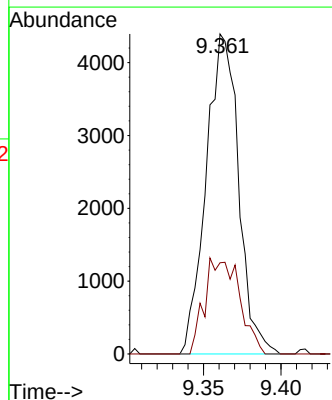
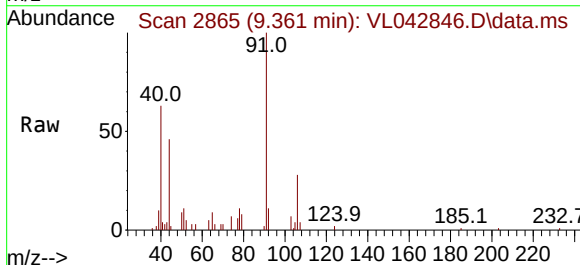
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

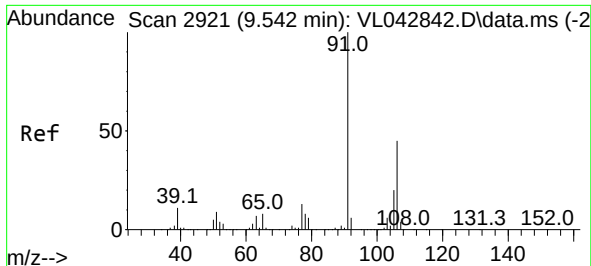
Tgt Ion:112 Resp: 3936
Ion Ratio Lower Upper
112 100
77 62.3 55.5 83.3
114 26.7 27.2 33.2#



#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 :

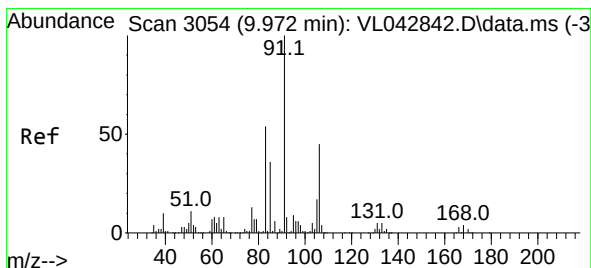
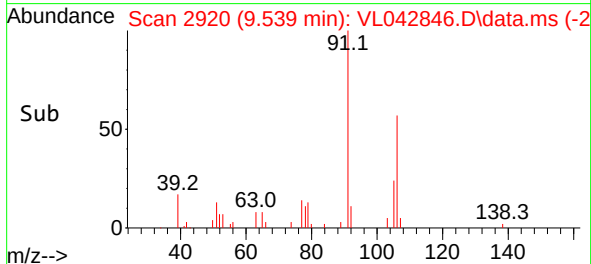
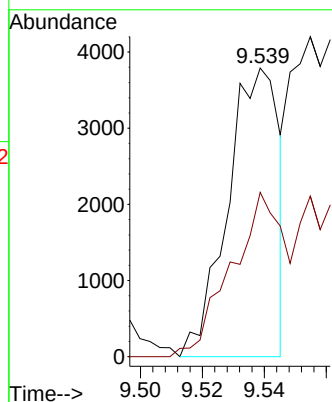
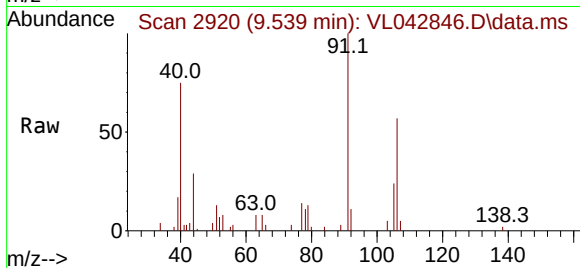
VSTDIC0.1

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

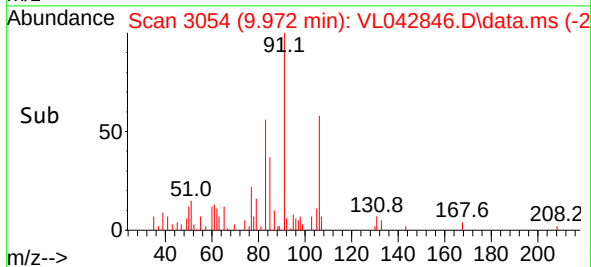
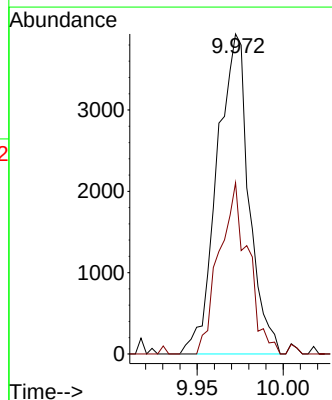
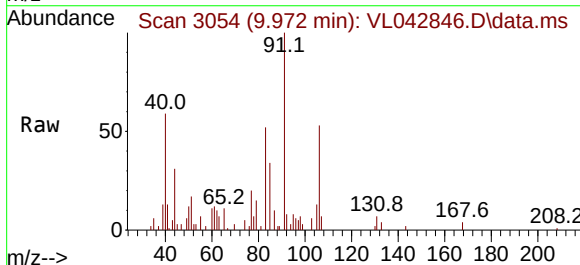
Acq: 13 Aug 2025 10:53

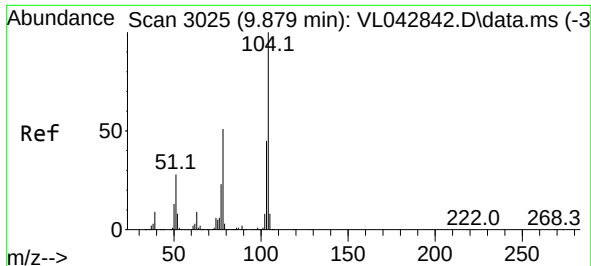
Tgt Ion: 91 Resp: 5090

Ion Ratio Lower Upper

91 100

106 49.7 21.8 65.4

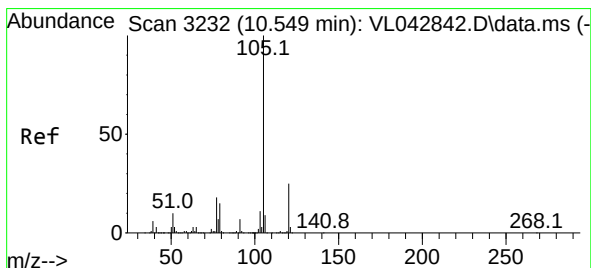
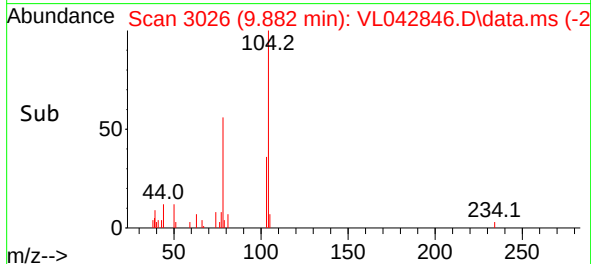
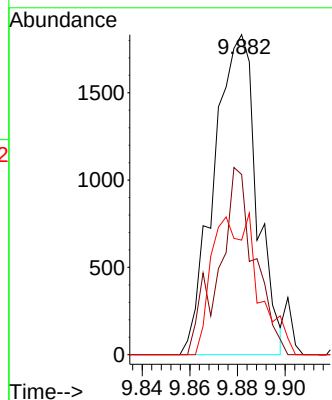
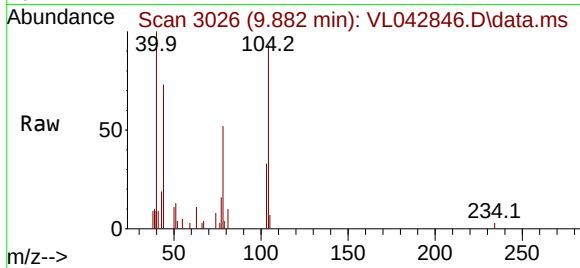




#61
Styrene
Concen: 0.103 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

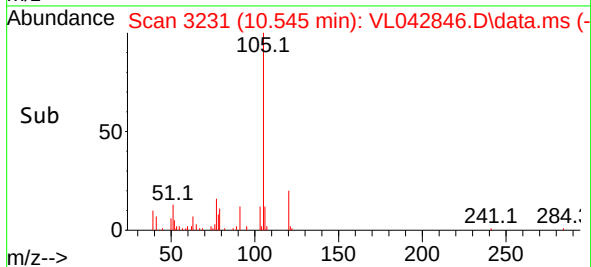
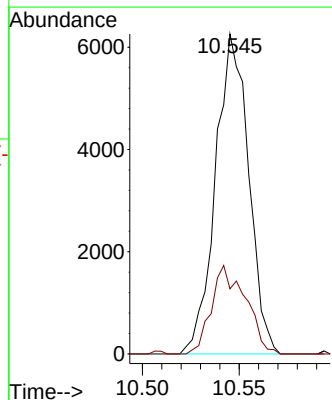
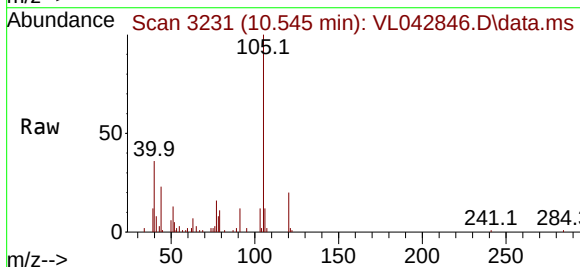
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

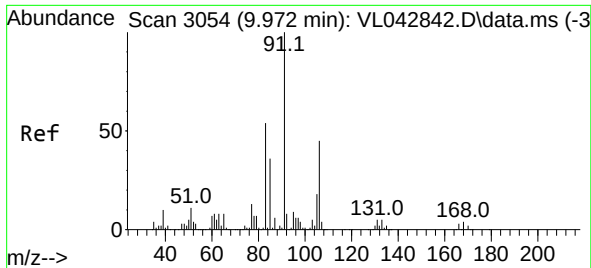
Tgt Ion:104 Resp: 2306
Ion Ratio Lower Upper
104 100
78 48.8 40.6 61.0
103 46.2 37.7 56.5



#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

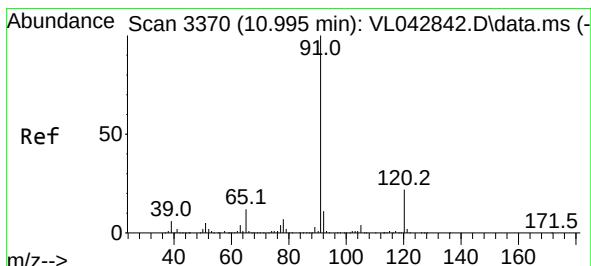
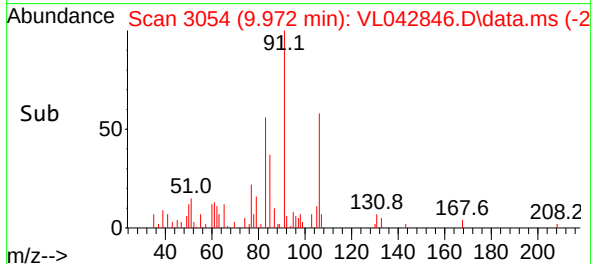
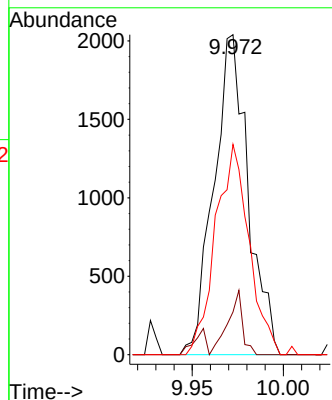
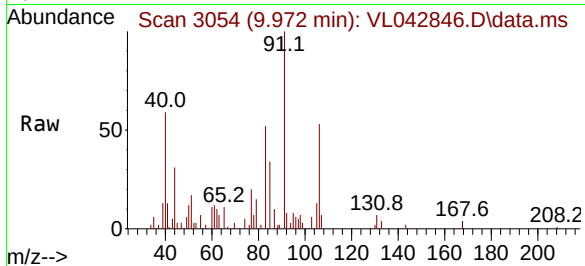




#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

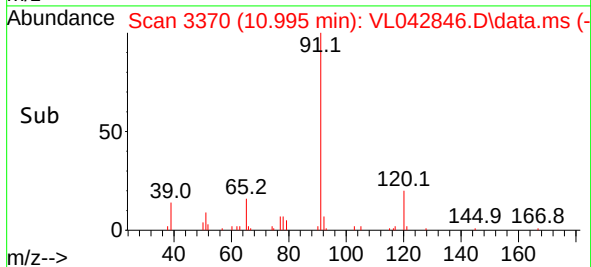
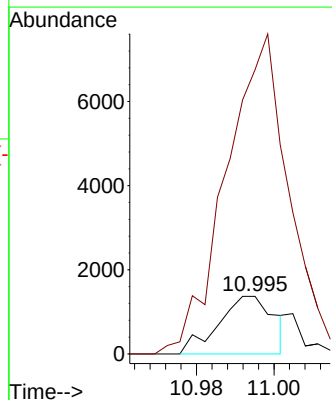
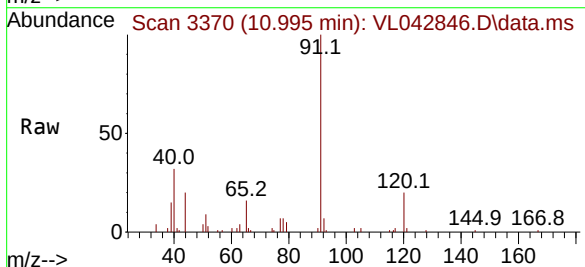
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

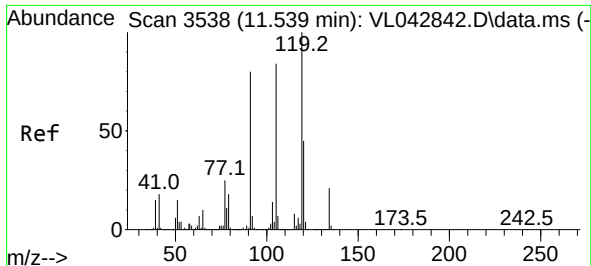
Tgt Ion: 83 Resp: 2672
Ion Ratio Lower Upper
83 100
131 11.4 4.8 14.3
85 64.3 32.3 96.8



#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#

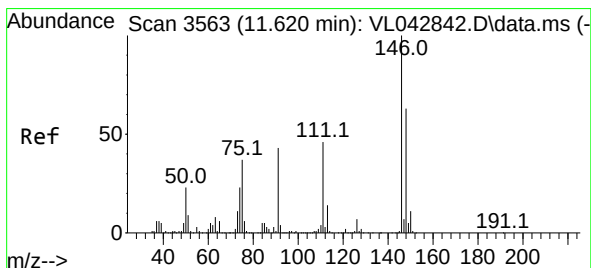
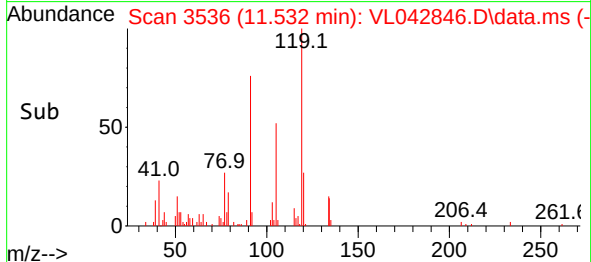
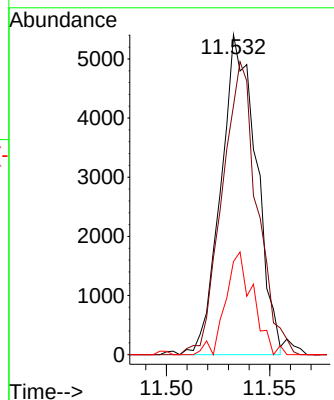
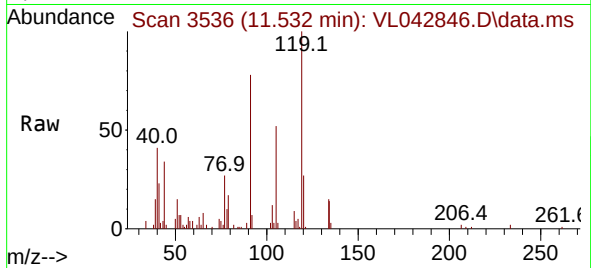




#65
tert-Butylbenzene
Concen: 0.104 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

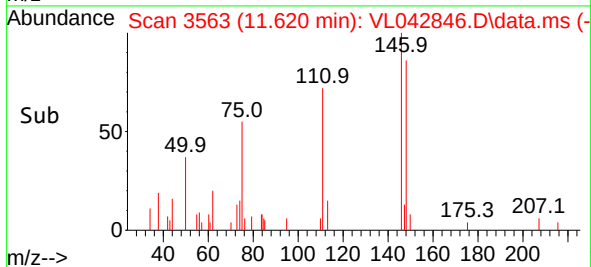
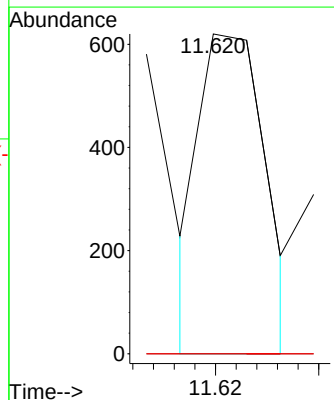
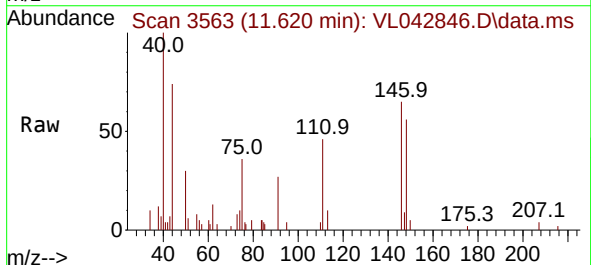
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

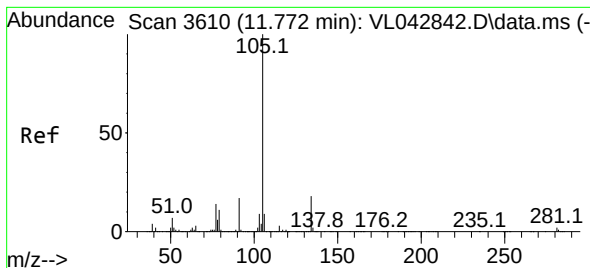
Tgt Ion:	119	Resp:	6442
Ion	Ratio	Lower	Upper
119	100		
91	91.1	63.9	95.9
134	25.4	17.0	25.4



#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 :

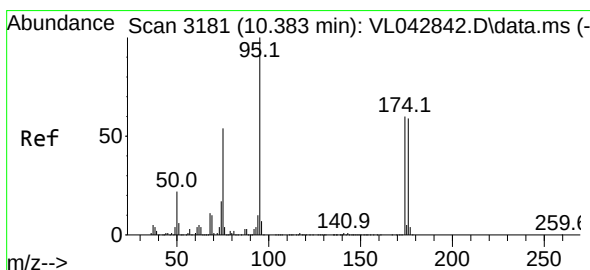
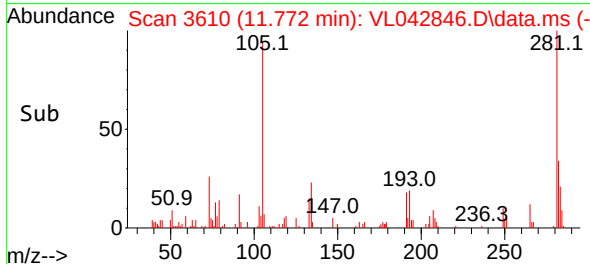
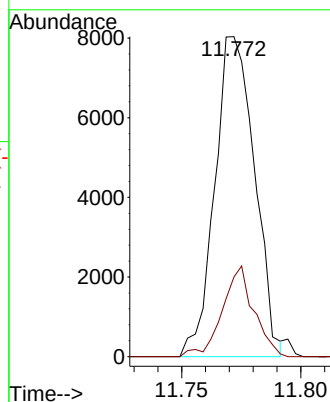
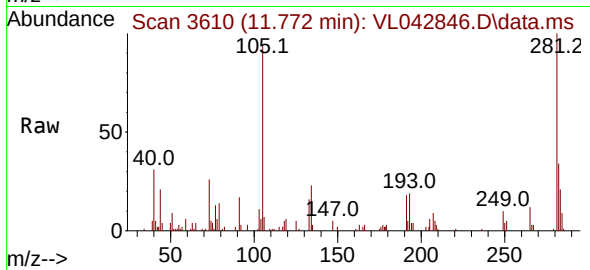
VSTDIC0.1

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

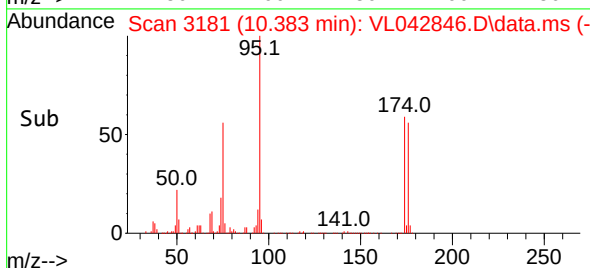
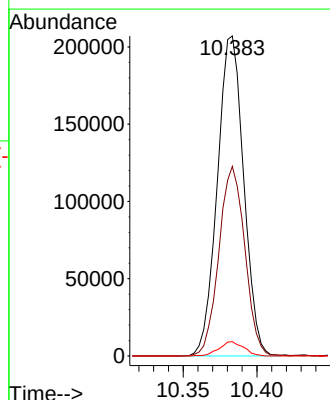
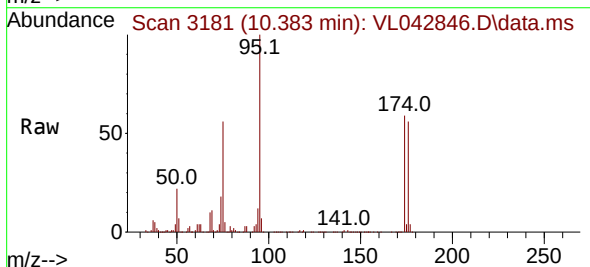
Tgt Ion: 95 Resp: 257439

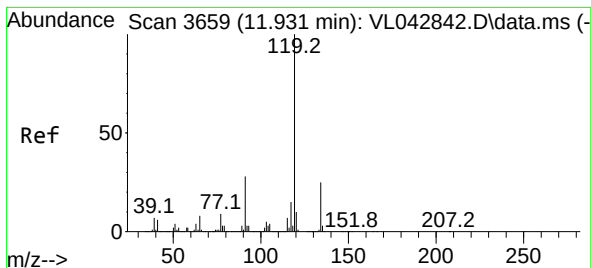
Ion Ratio Lower Upper

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# 3

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

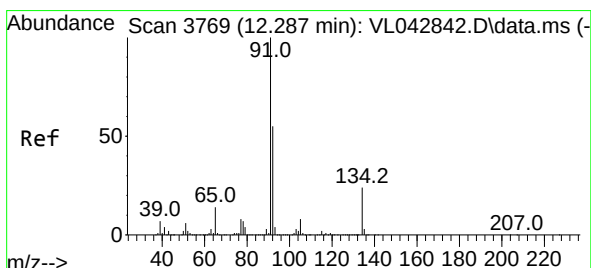
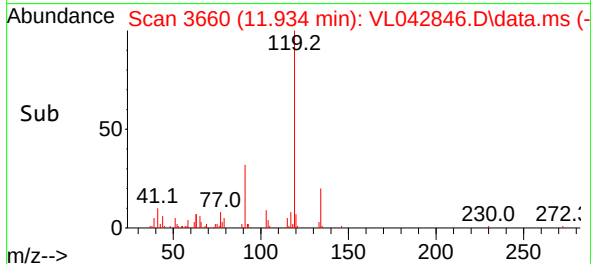
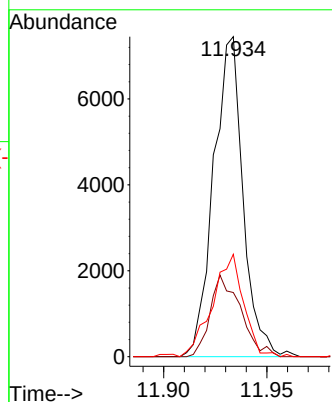
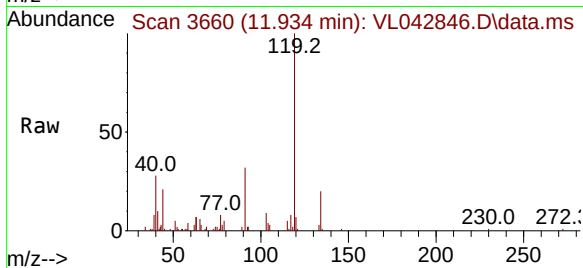
Tgt Ion:119 Resp: 7360

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

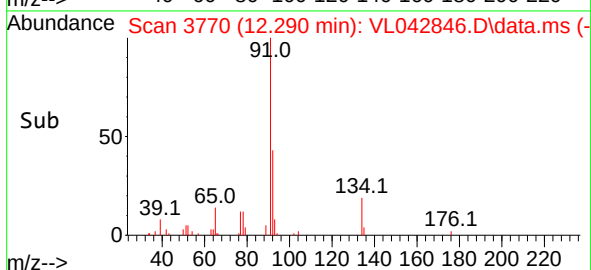
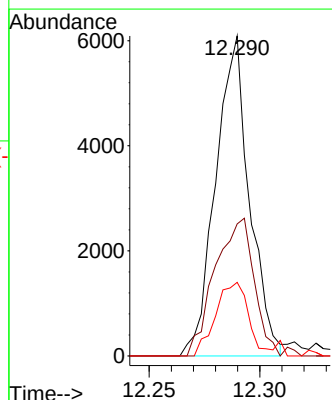
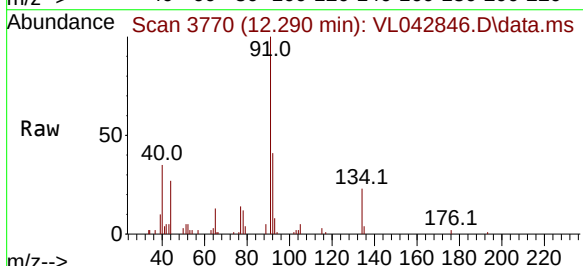
Tgt Ion: 91 Resp: 6458

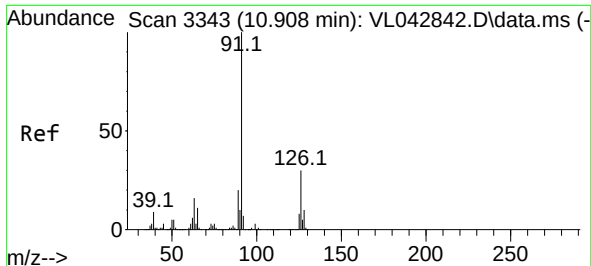
Ion Ratio Lower Upper

91 100

92 50.7 44.6 66.8

134 24.0 19.0 28.4

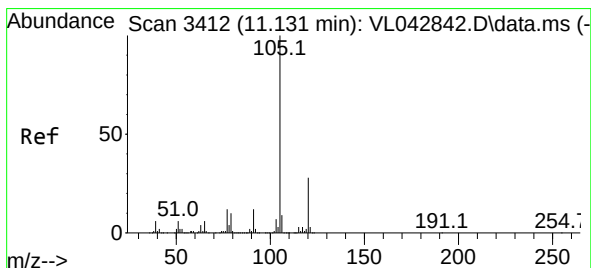
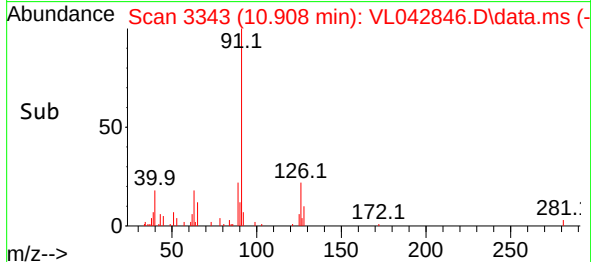
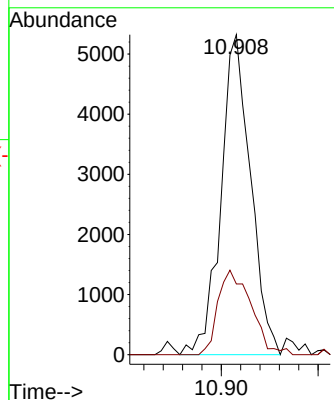
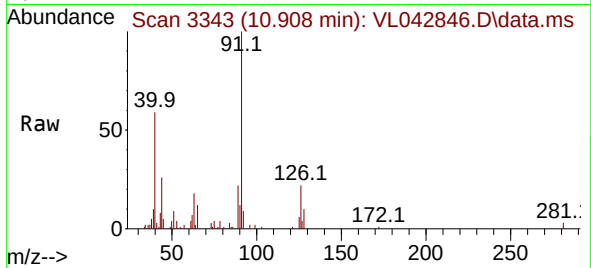




#71
2-Chlorotoluene
Concen: 0.104 ppbv
RT: 10.908 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

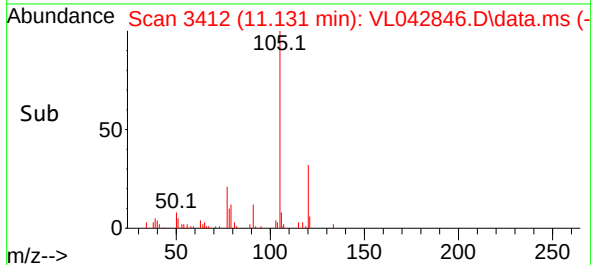
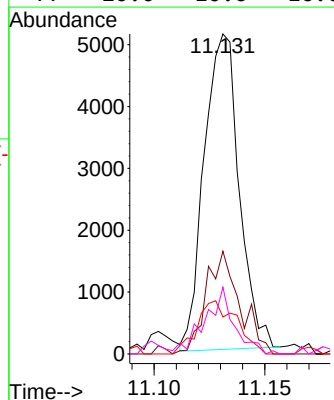
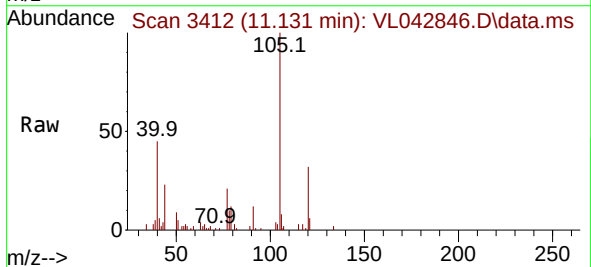
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

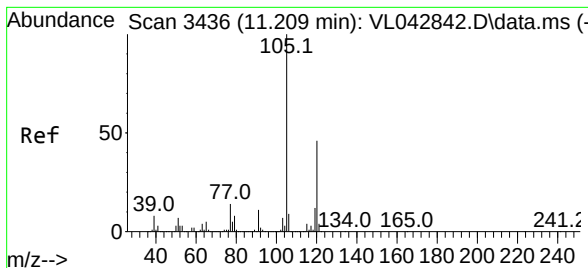
Tgt Ion: 91 Resp: 5660
Ion Ratio Lower Upper
91 100
126 29.8 12.0 47.8



#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 :

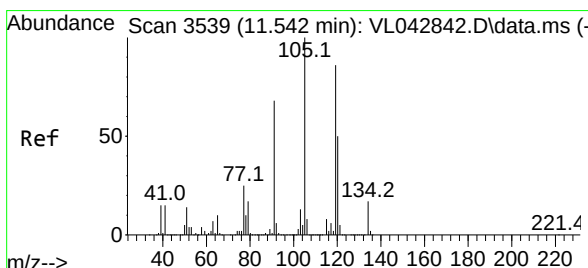
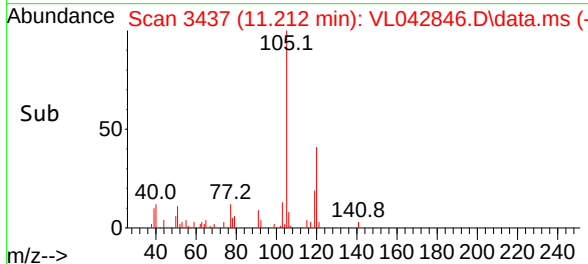
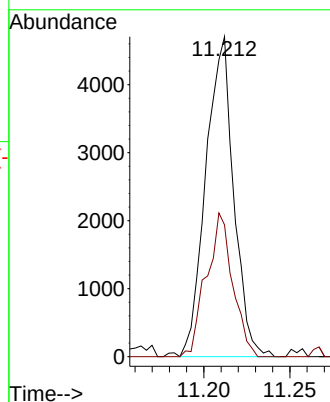
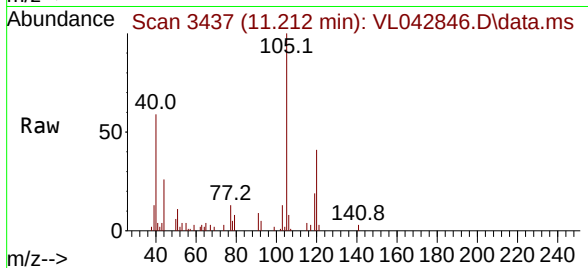
VSTDIC0.1

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

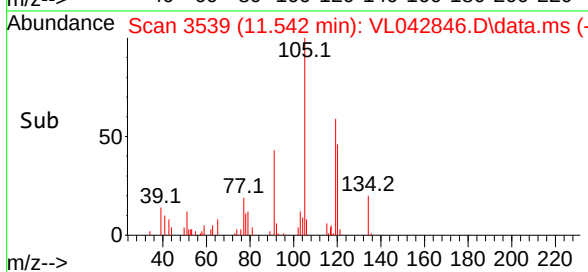
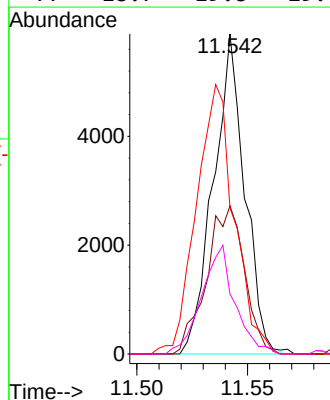
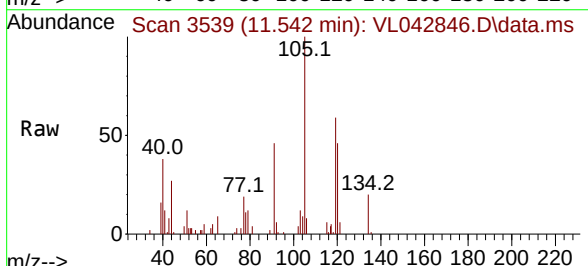
Ion Ratio Lower Upper

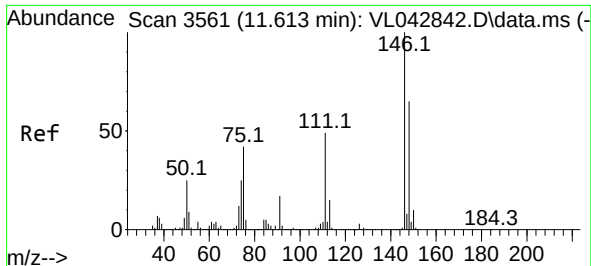
105 100

120 46.3 39.8 59.6

91 45.6 54.2 81.4#

77 18.7 19.8 29.6#

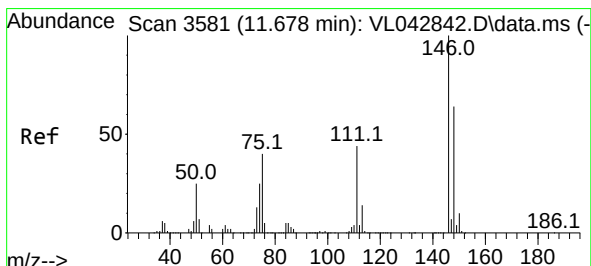
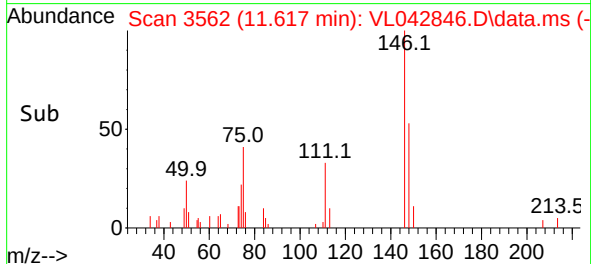
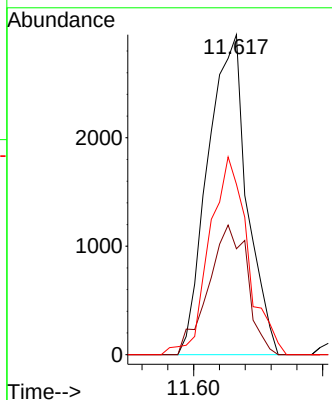
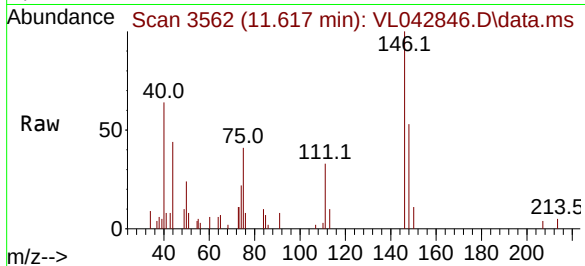




#75
1,3-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.617 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

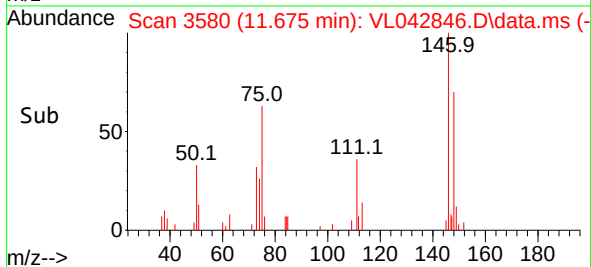
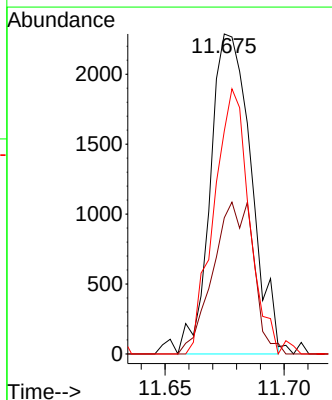
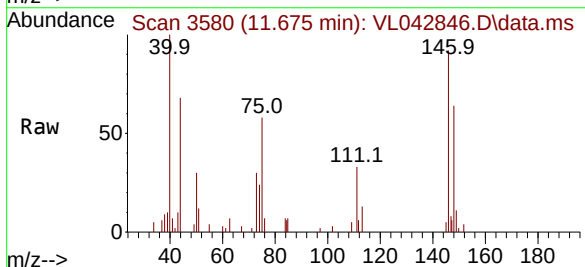
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

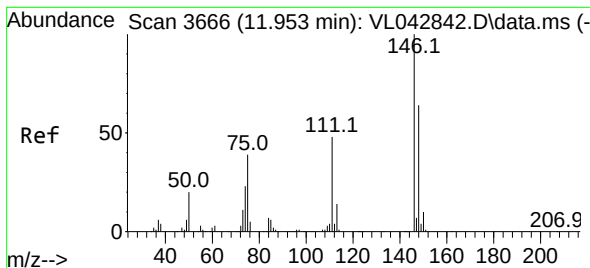
Tgt Ion:146 Resp: 3112
Ion Ratio Lower Upper
146 100
111 40.1 23.9 71.7
148 60.4 31.4 94.0



#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# 3

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

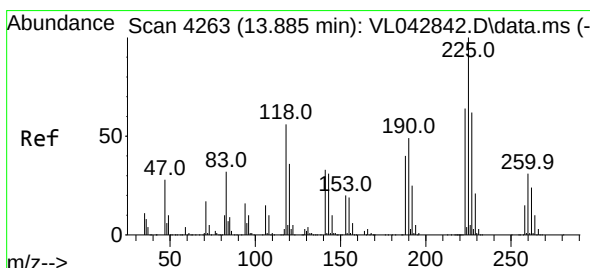
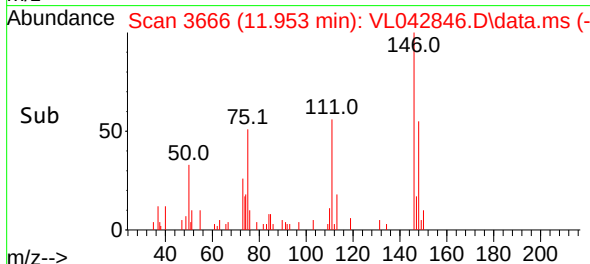
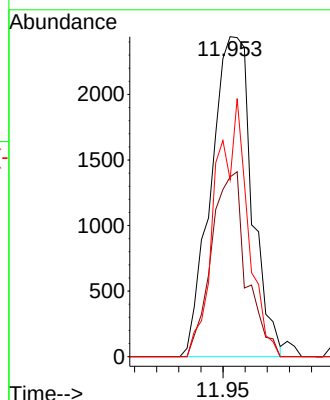
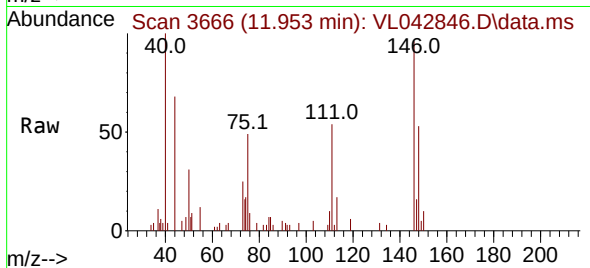
Tgt Ion:146 Resp: 3151

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

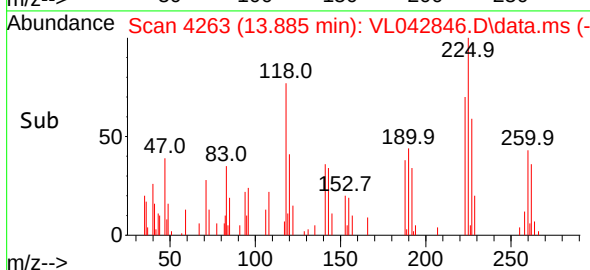
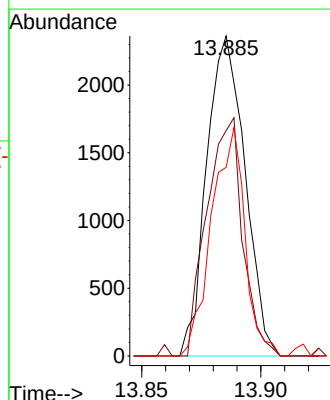
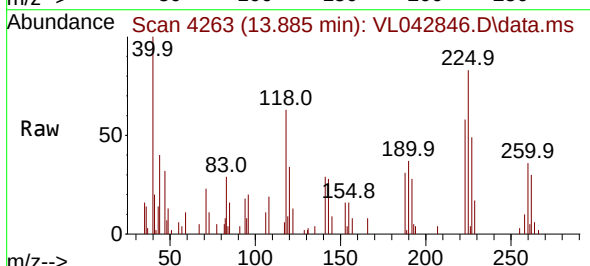
Tgt Ion:225 Resp: 2639

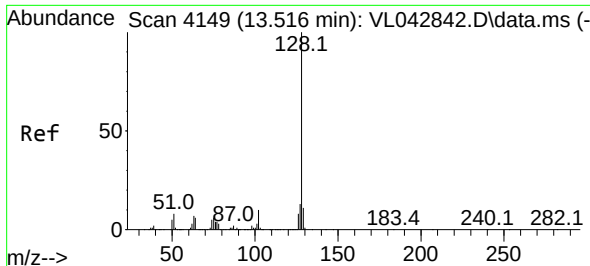
Ion Ratio Lower Upper

225 100

223 70.3 51.4 77.2

227 62.8 51.9 77.9

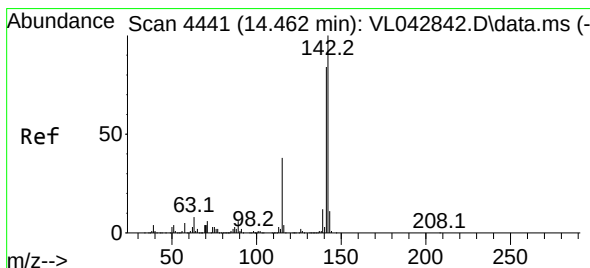
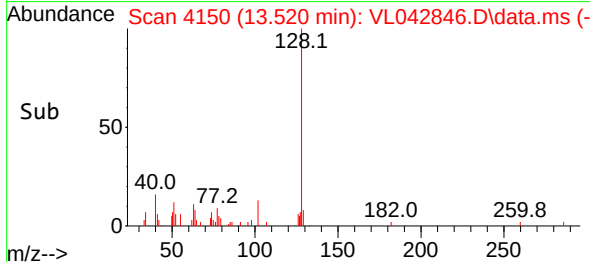
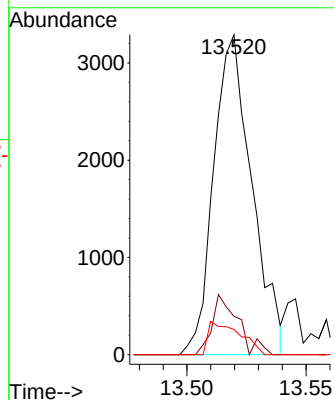
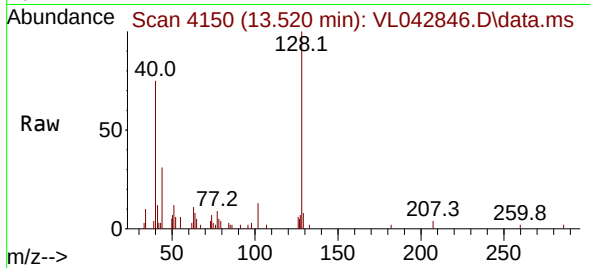




#79
Naphthalene
Concen: 0.075 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

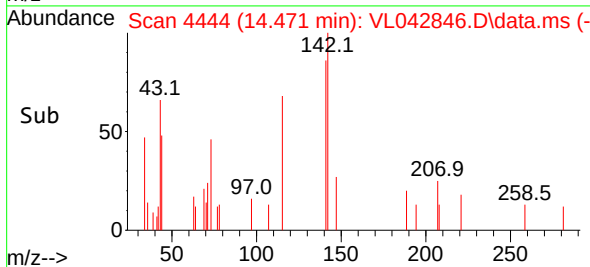
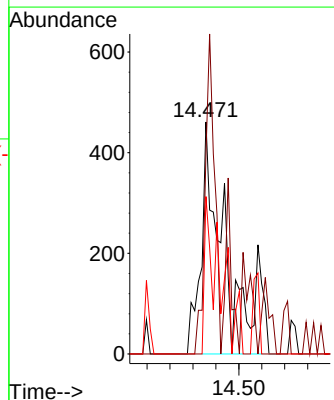
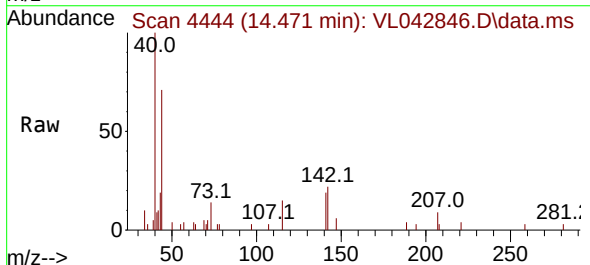
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

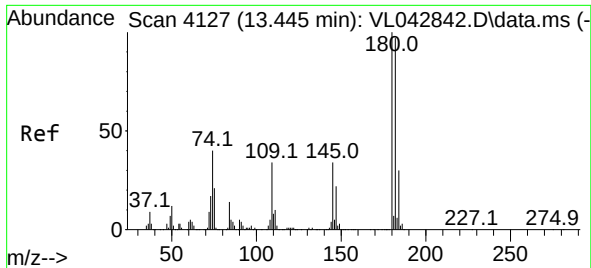
Tgt Ion:128 Resp: 3670
Ion Ratio Lower Upper
128 100
127 12.0 10.6 16.0
129 7.9 8.9 13.3#



#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

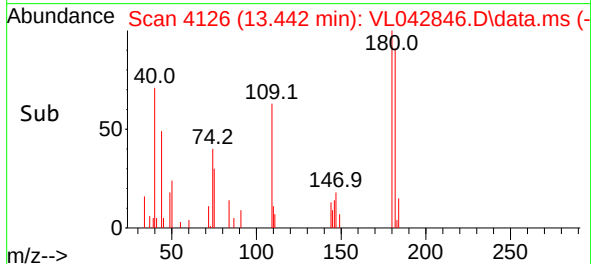
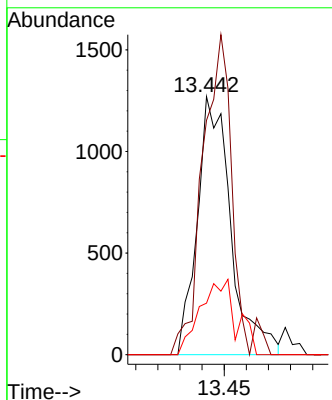
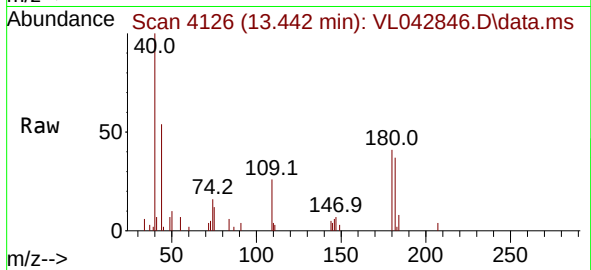




#81
 1,2,4-Trichlorobenzene
 Concen: 0.054 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. -0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

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

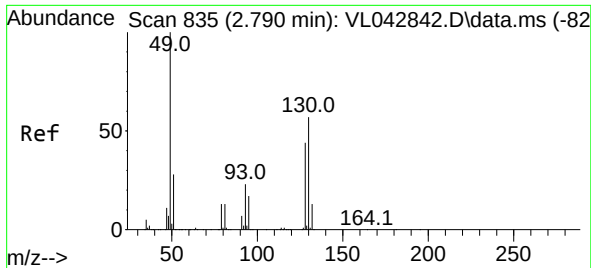
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 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

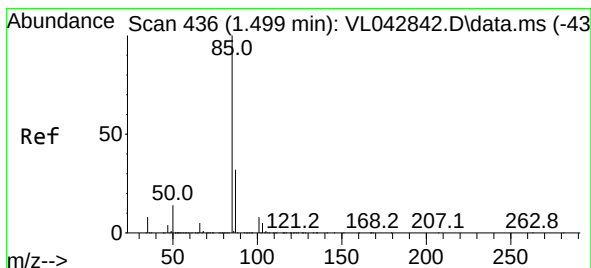
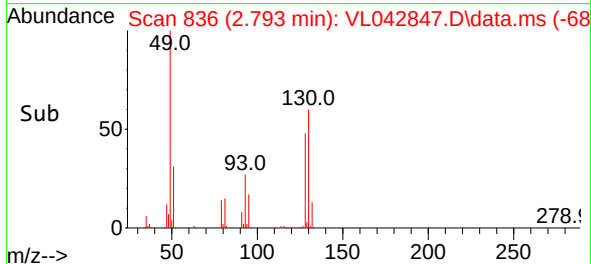
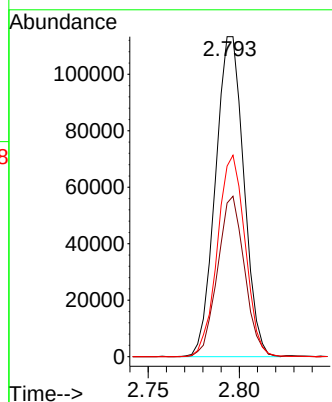
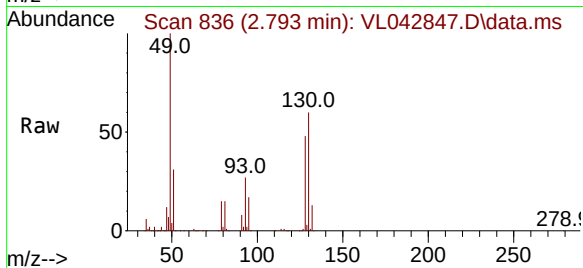
Tgt Ion: 49 Resp: 122705

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

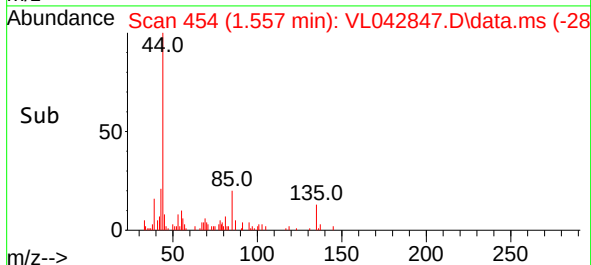
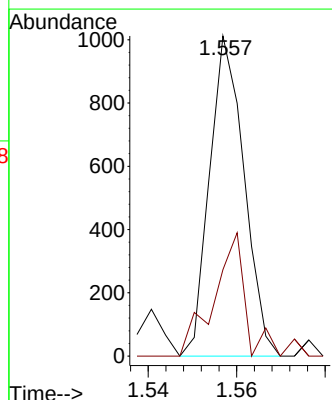
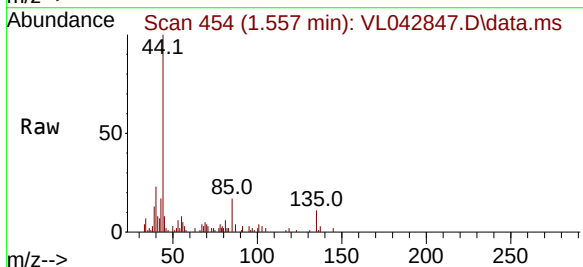
Acq: 13 Aug 2025 11:30

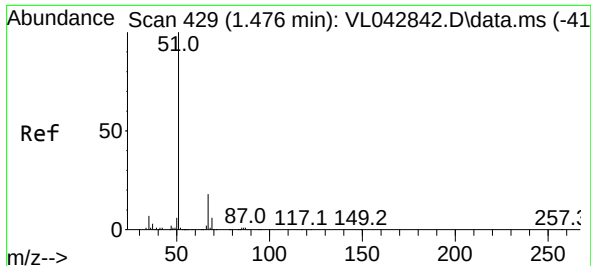
Tgt Ion: 85 Resp: 549

Ion Ratio Lower Upper

85 100

87 27.0 25.3 37.9

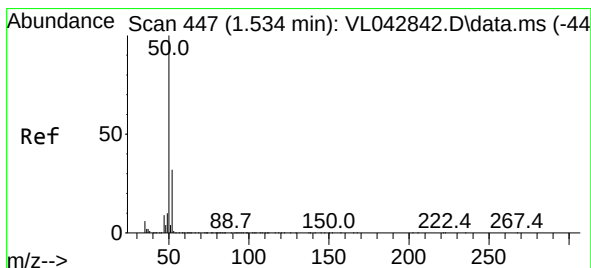
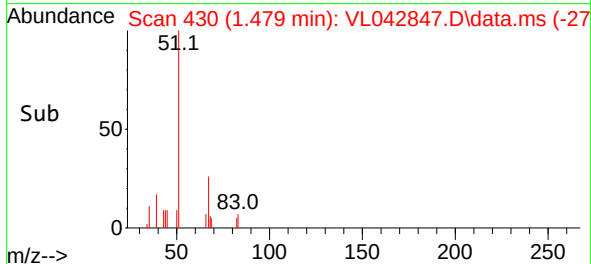
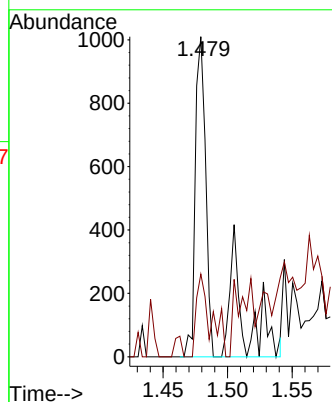
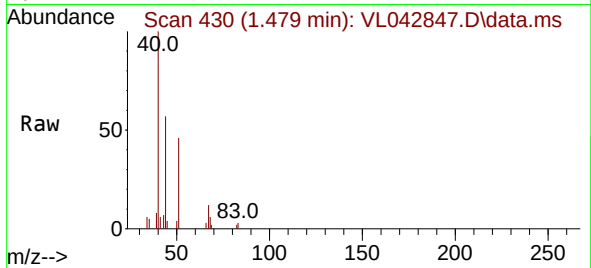




#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

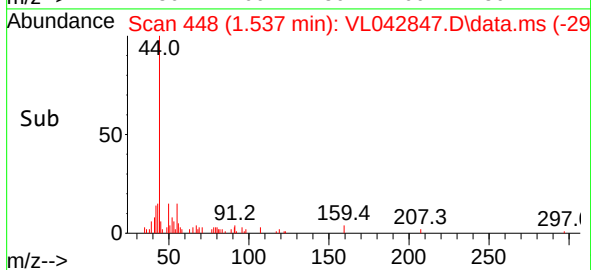
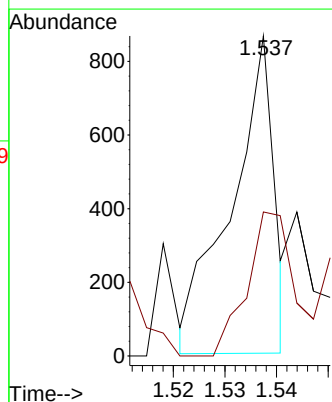
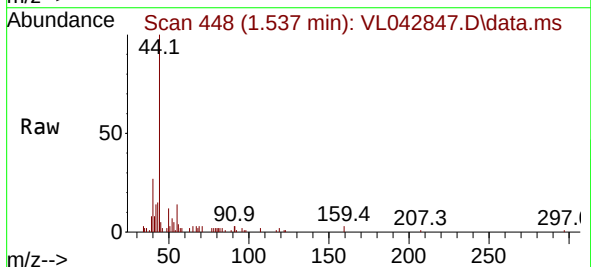
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

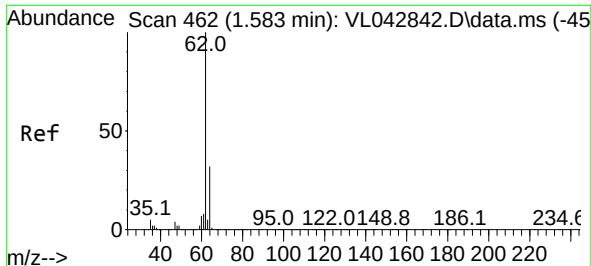
Tgt Ion: 51 Resp: 868
Ion Ratio Lower Upper
51 100
67 26.4 14.9 22.3#



#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#

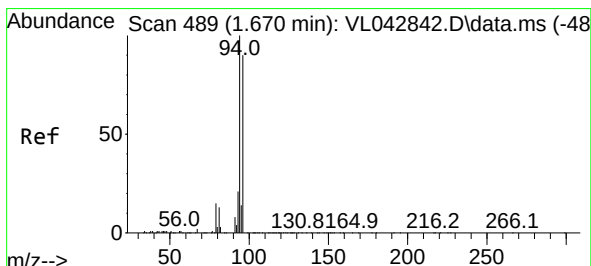
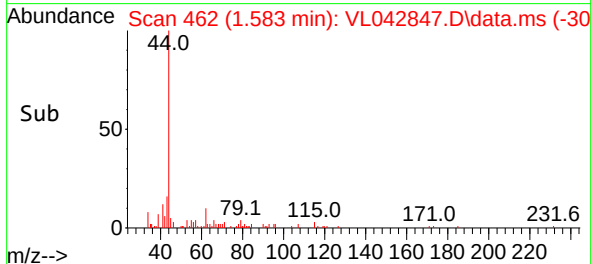
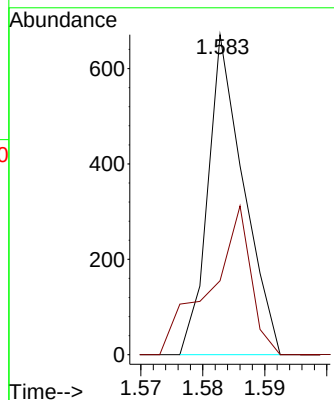
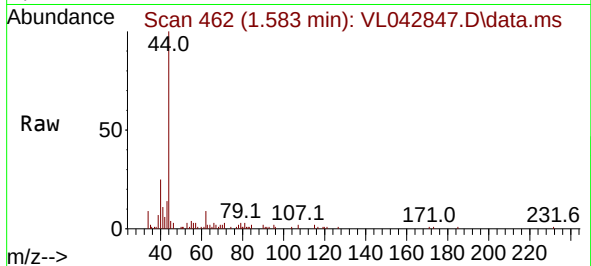




#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

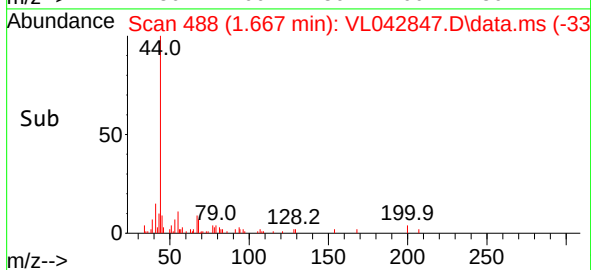
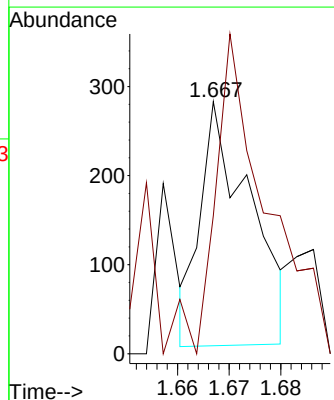
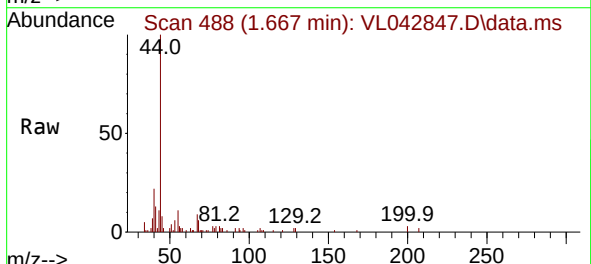
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

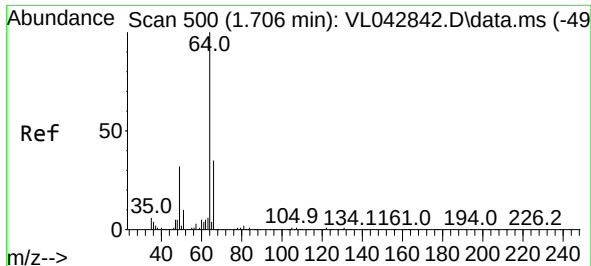
Tgt Ion: 62 Resp: 268
 Ion Ratio Lower Upper
 62 100
 64 21.2 25.4 38.2#



#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#

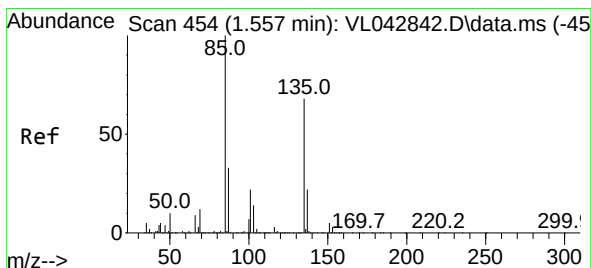
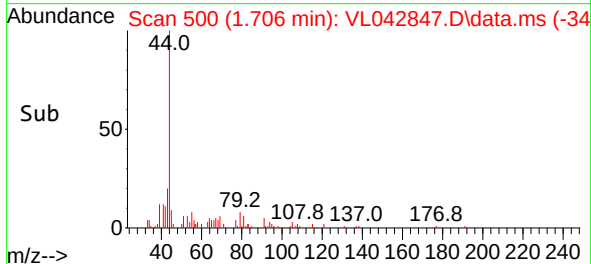
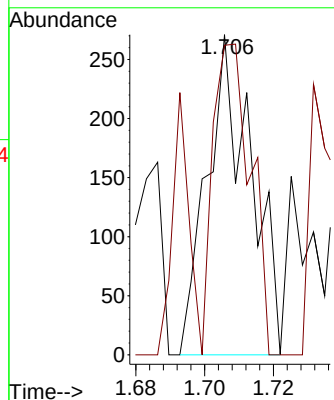
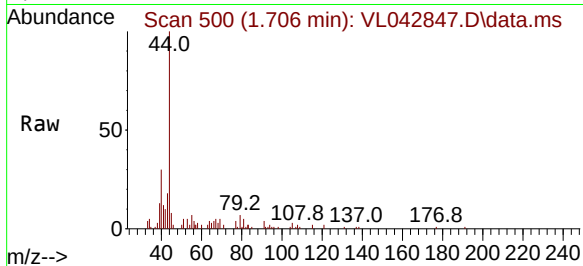




#7
Chloroethane
Concen: 0.086 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

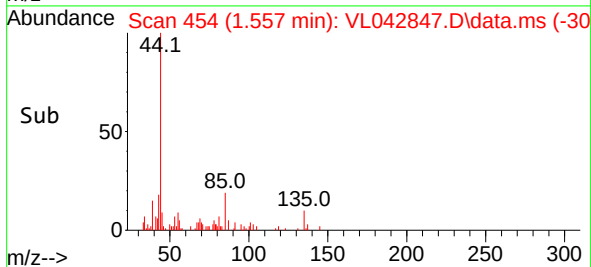
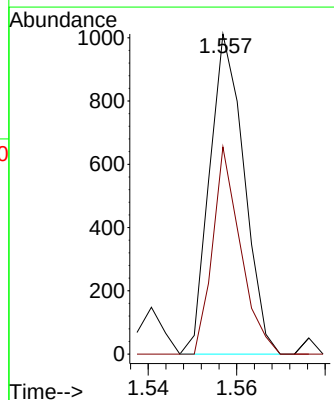
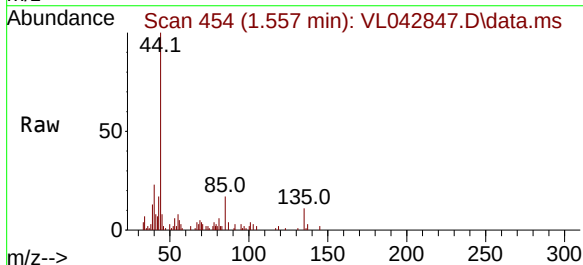
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

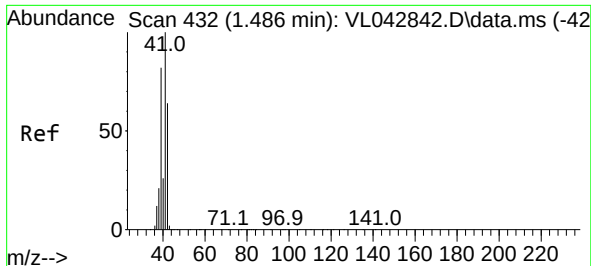
Tgt Ion: 64 Resp: 240
Ion Ratio Lower Upper
64 100
66 96.7 28.6 42.8#



#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 :

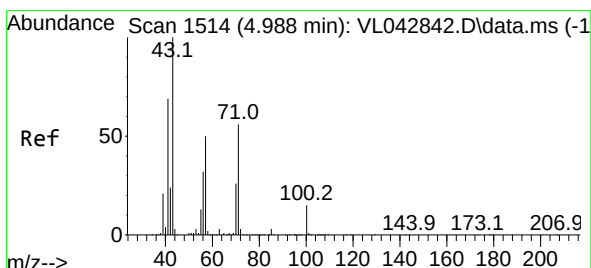
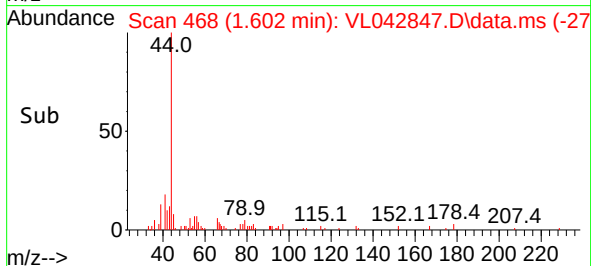
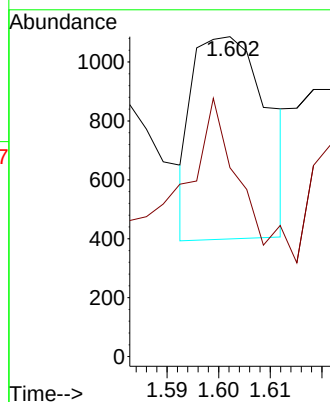
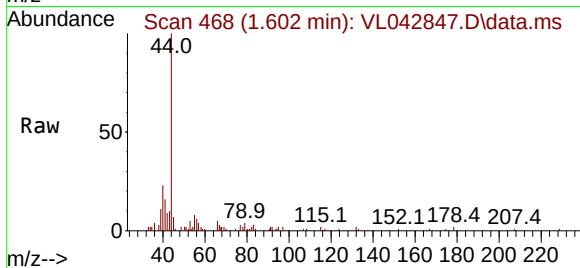
VSTDICC0.03

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

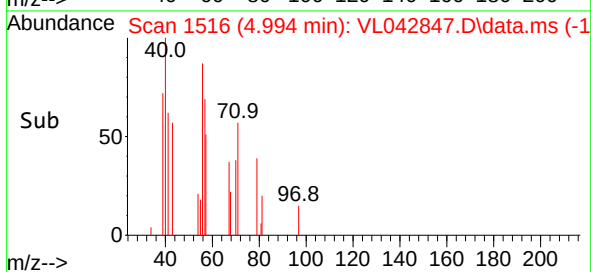
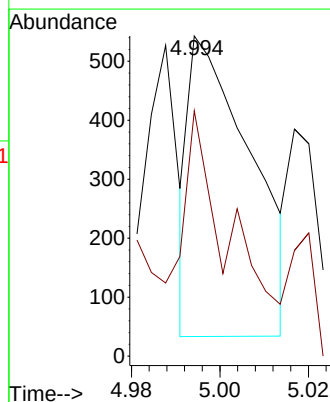
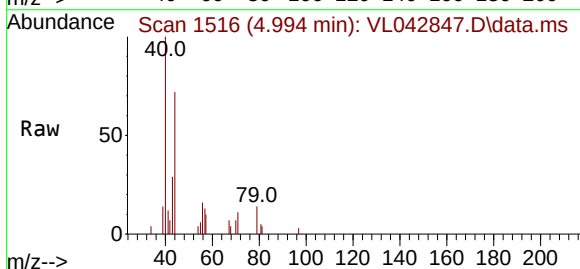
Acq: 13 Aug 2025 11:30

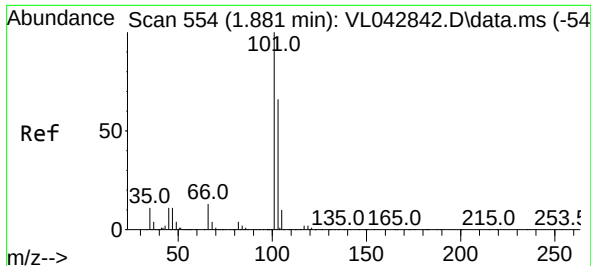
Tgt Ion: 43 Resp: 492

Ion Ratio Lower Upper

43 100

57 137.2 41.4 62.0#

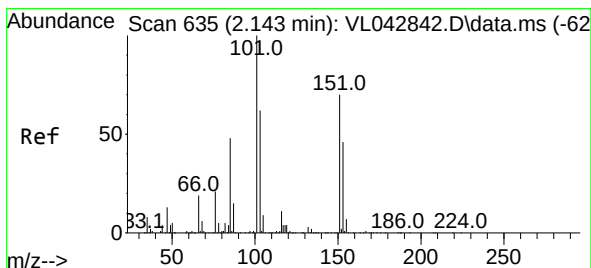
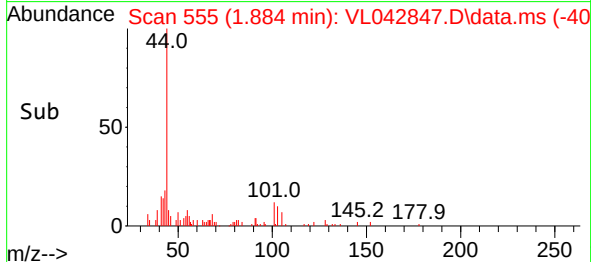
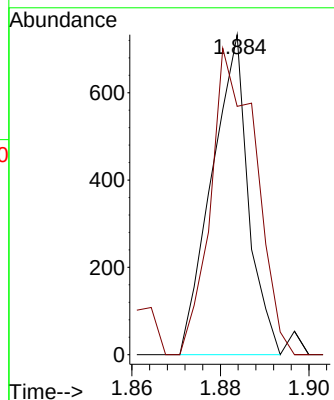
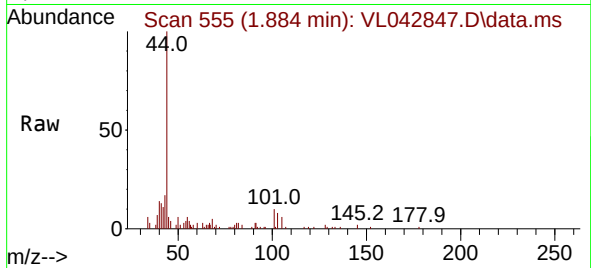




#11
 Trichlorofluoromethane
 Concen: 0.024 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

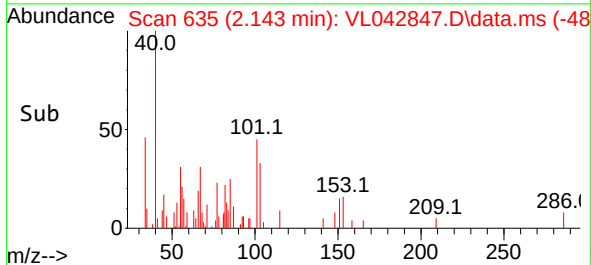
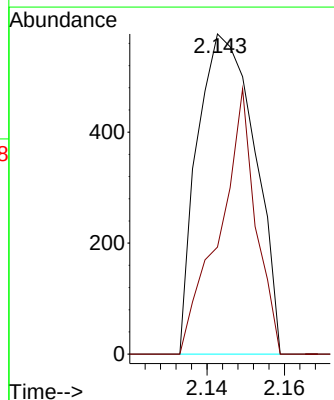
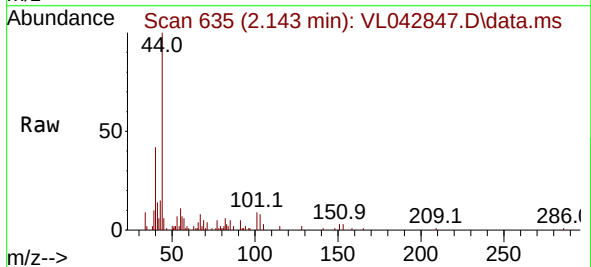
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

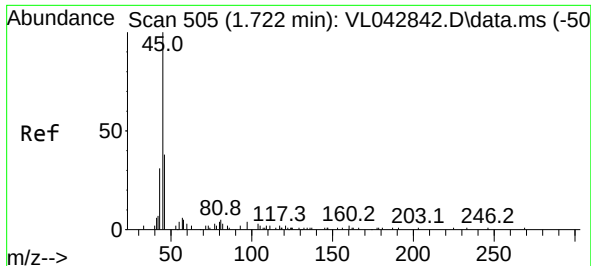
Tgt Ion:101 Resp: 420
 Ion Ratio Lower Upper
 101 100
 103 69.7 52.5 78.7



#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#

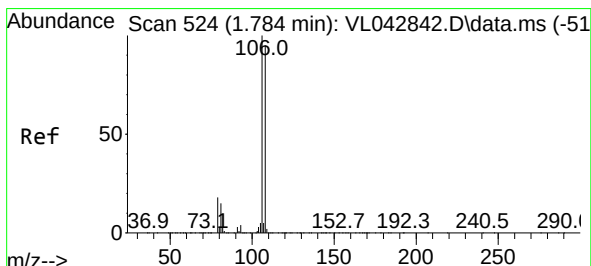
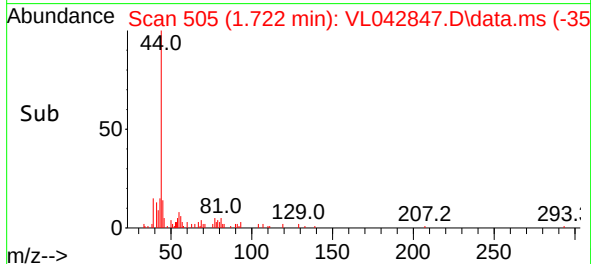
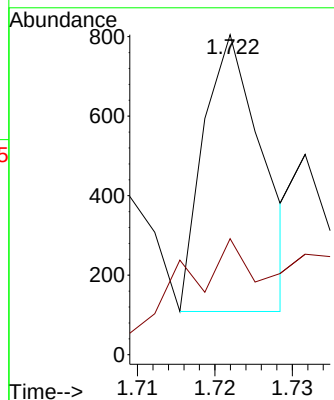
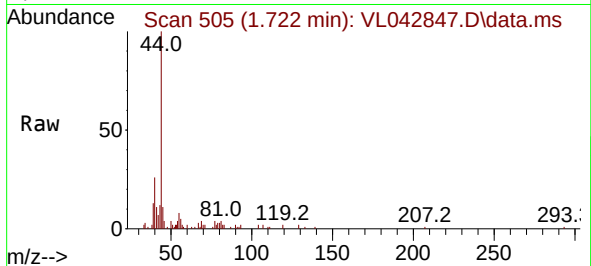




#13
 Ethanol
 Concen: 0.435 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

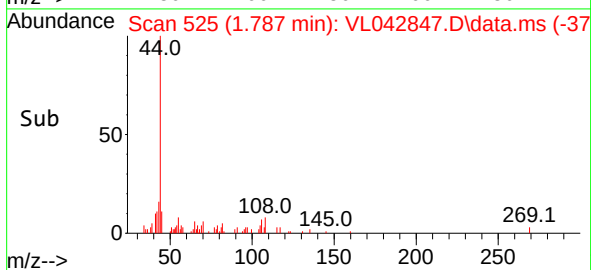
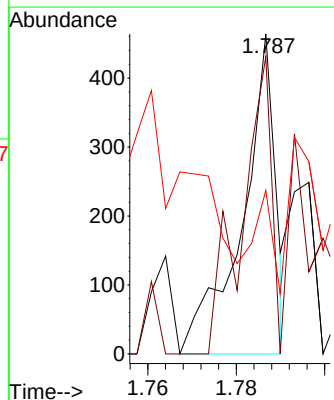
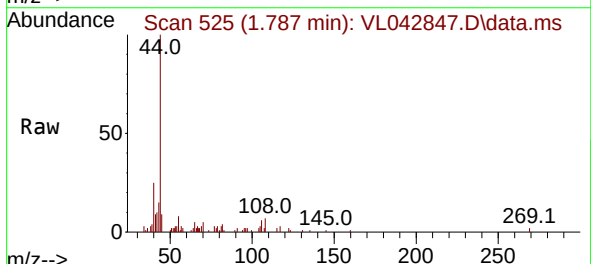
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

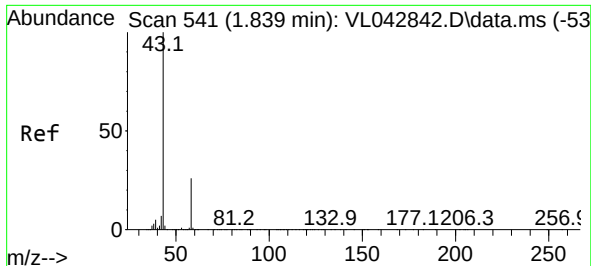
Tgt Ion: 45 Resp: 370
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.5 69.9#



#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#

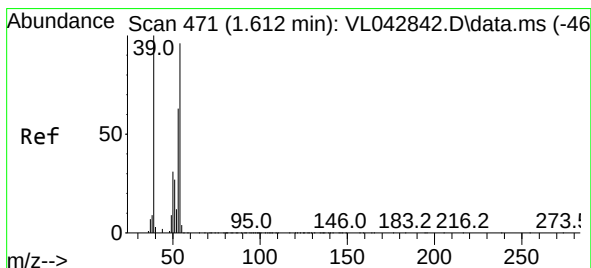
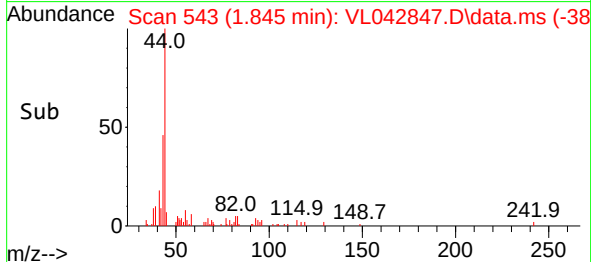
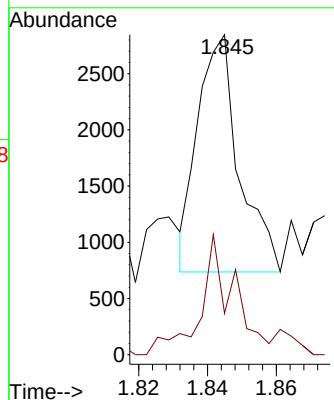
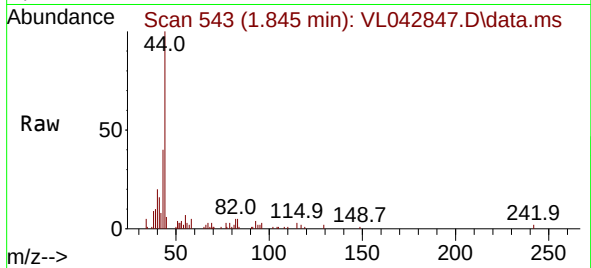




#15
Acetone
Concen: 0.108 ppbv
RT: 1.845 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

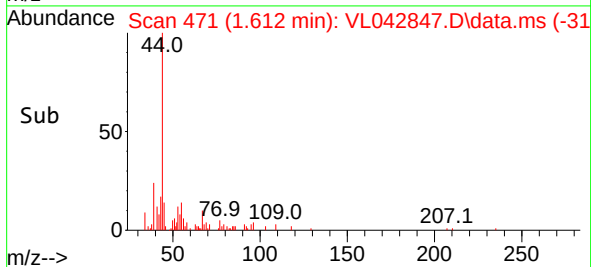
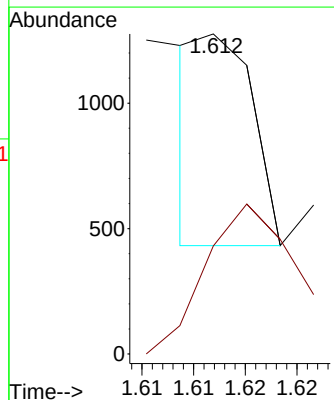
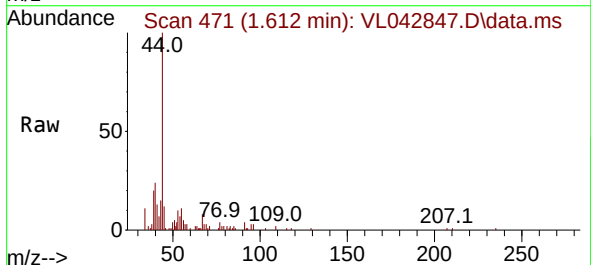
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

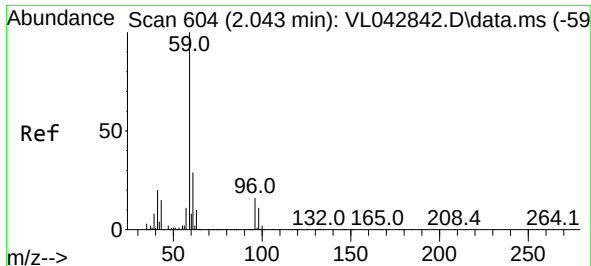
Tgt Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
58 57.4 22.4 33.6#



#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_L

ClientSampleId :

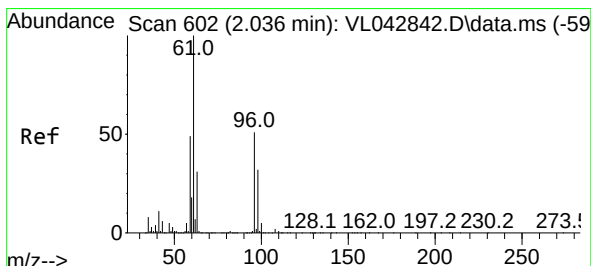
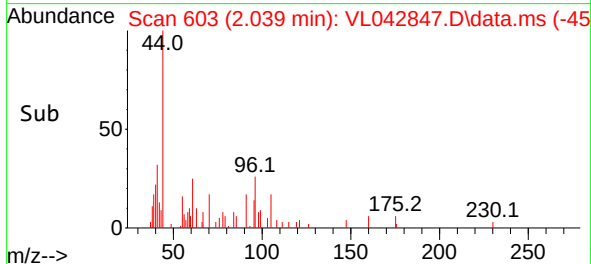
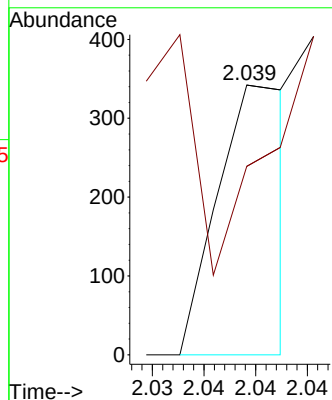
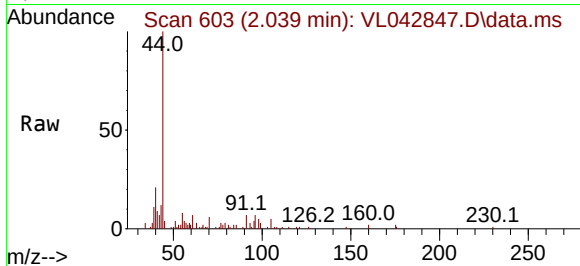
VSTDIC0.03

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

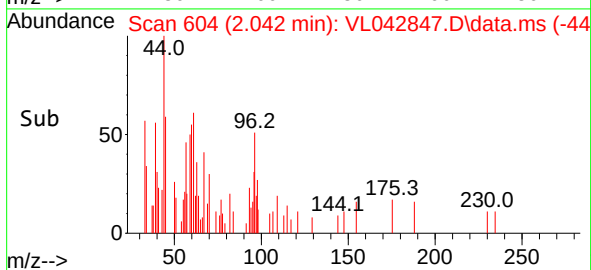
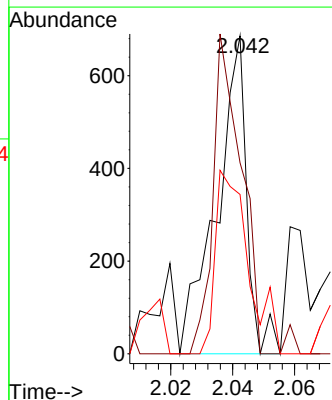
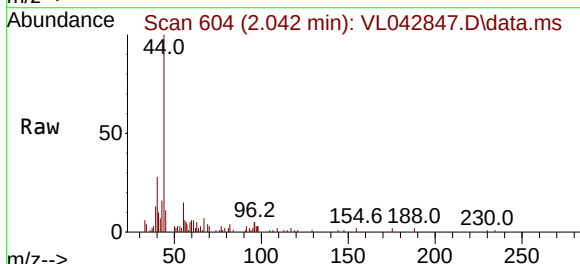
Tgt Ion: 96 Resp: 464

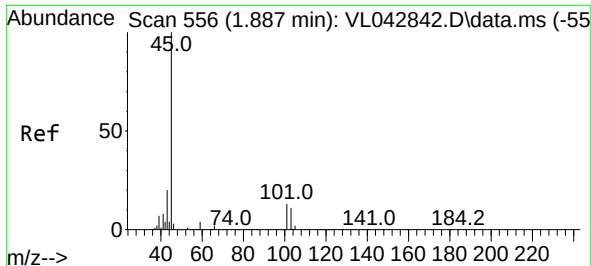
Ion Ratio Lower Upper

96 100

61 60.1 158.2 237.4#

98 50.1 50.6 76.0#

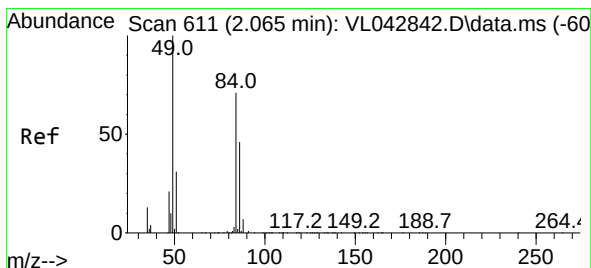
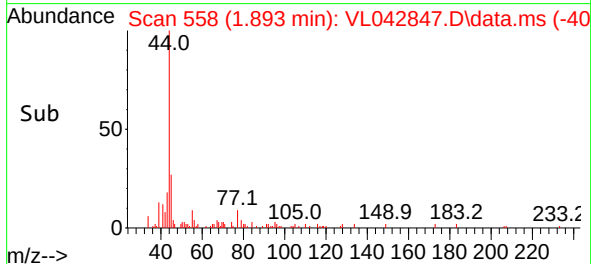
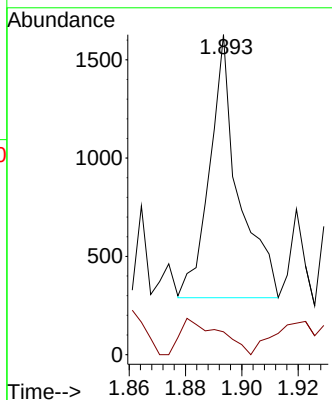
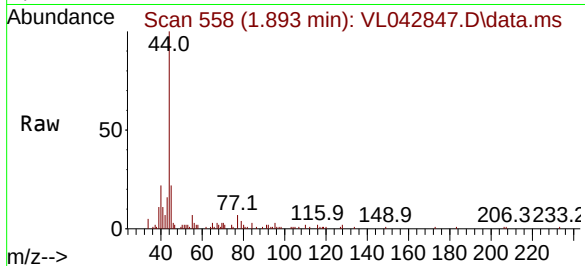




#19
Isopropyl Alcohol
Concen: 0.097 ppbv
RT: 1.893 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

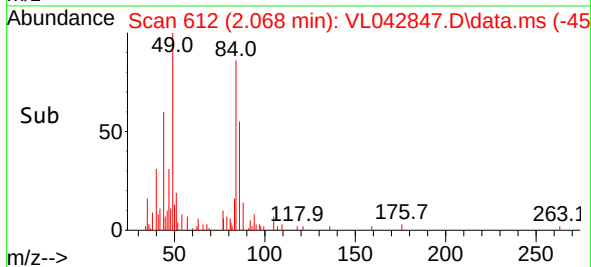
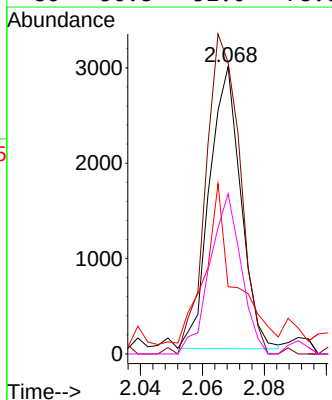
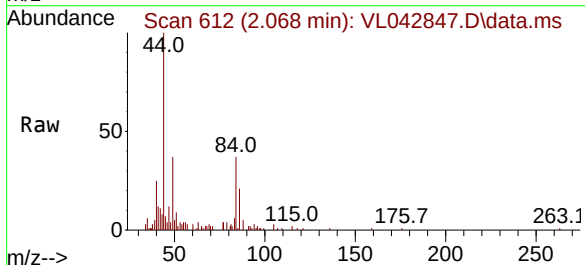
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

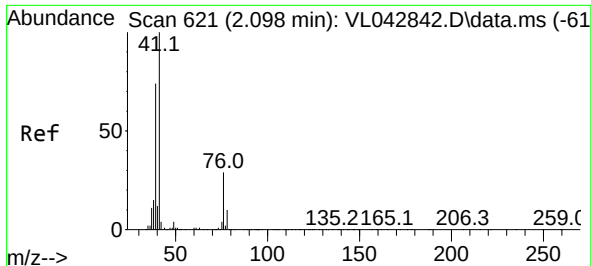
Tgt Ion: 45 Resp: 945
Ion Ratio Lower Upper
45 100
58 18.9 32.7 49.1#



#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

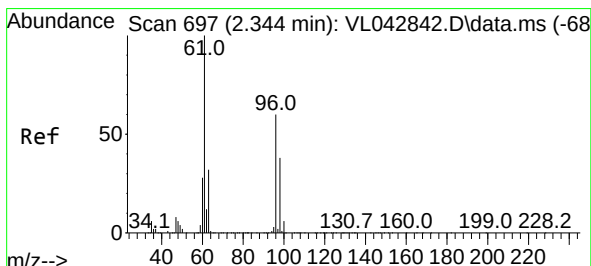
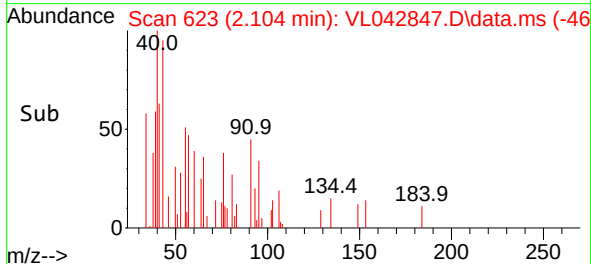
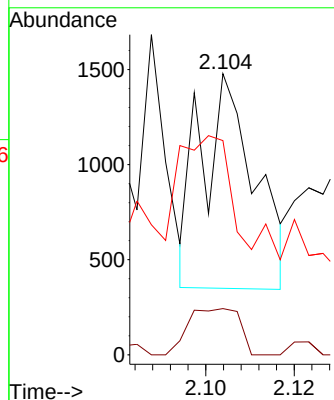
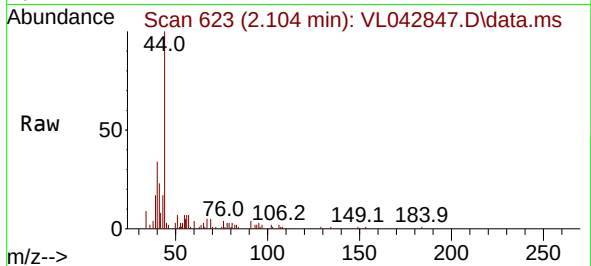




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

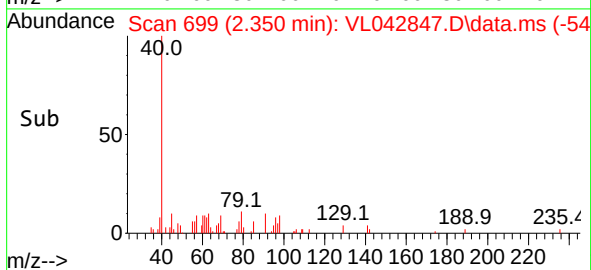
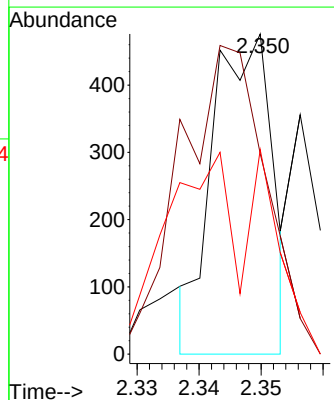
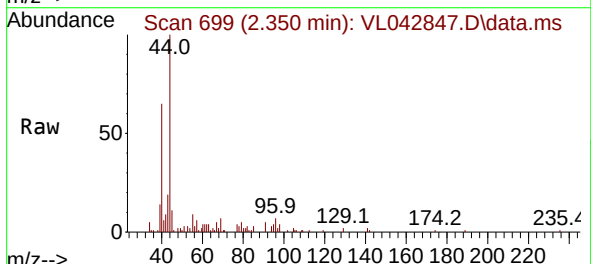
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

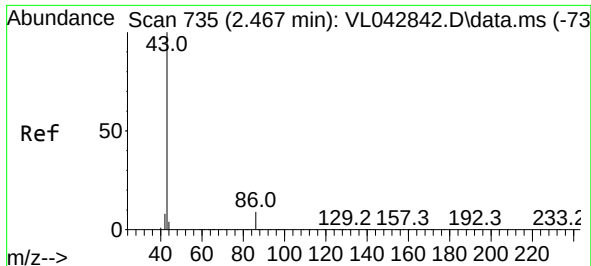
Tgt Ion: 41 Resp: 953
 Ion Ratio Lower Upper
 41 100
 76 26.5 23.9 35.9
 39 129.5 57.8 86.6#



#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#

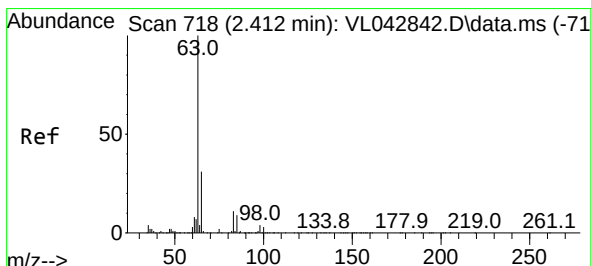
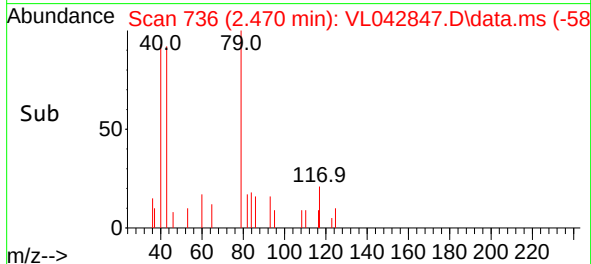
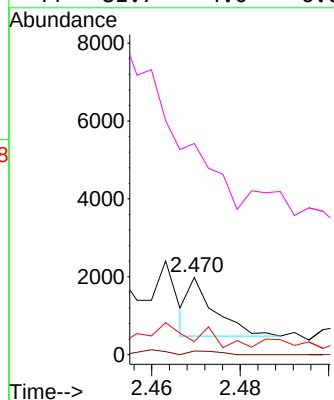
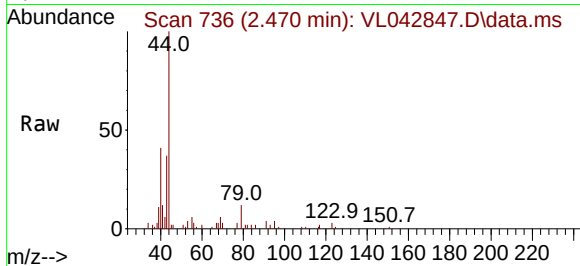




#23
 Vinyl Acetate
 Concen: 0.029 ppbv
 RT: 2.470 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

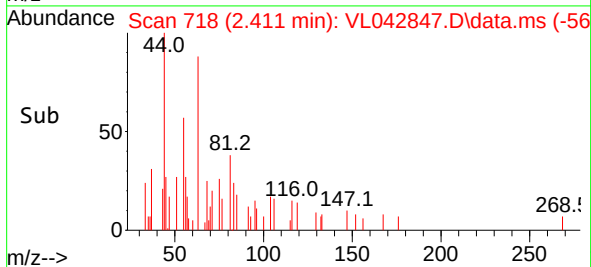
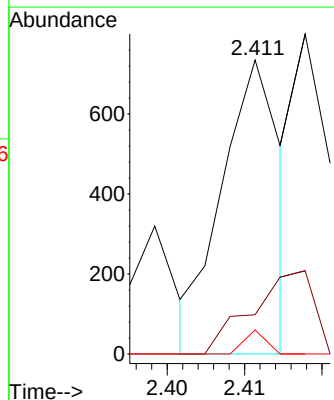
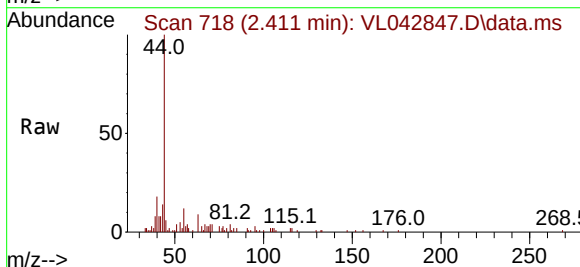
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

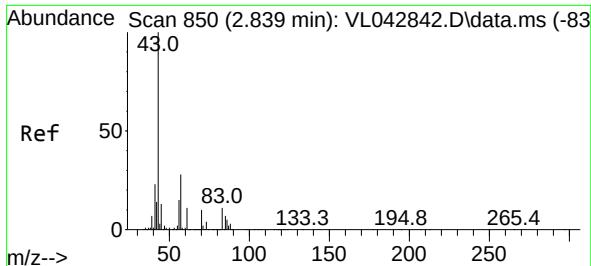
Tgt Ion: 43	Resp: 629
Ion Ratio	Lower Upper
43 100	
86 6.3	6.6 9.8#
42 0.0	7.0 10.6#
44 81.7	4.0 6.0#



#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#

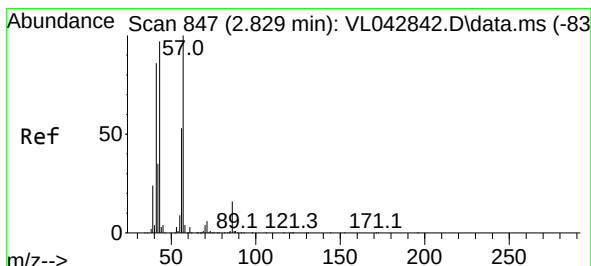
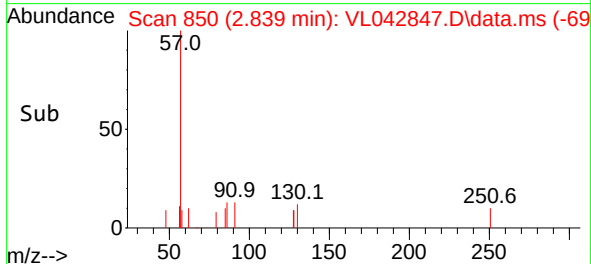
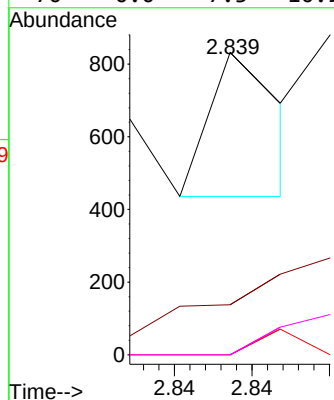
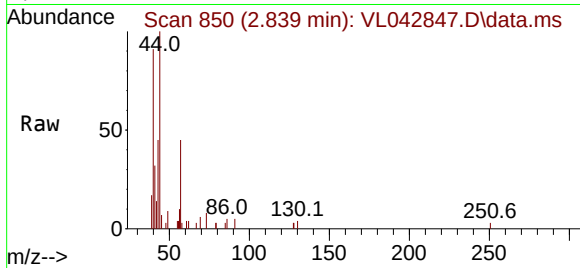




#25
Ethyl Acetate
Concen: 0.003 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

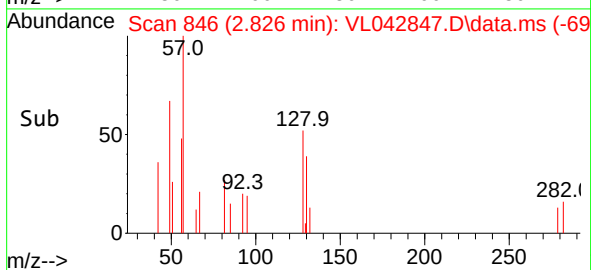
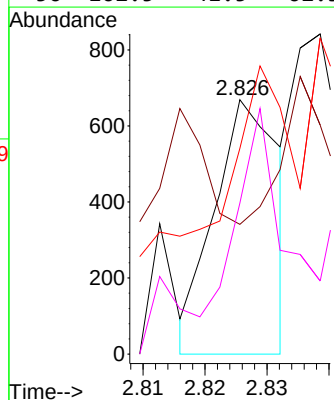
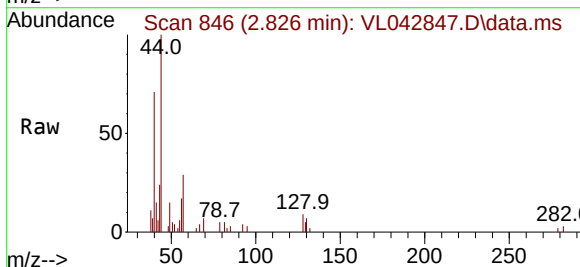
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

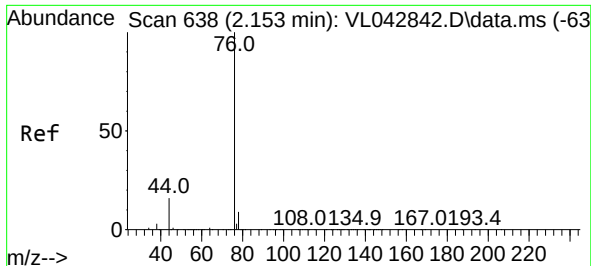
Tgt Ion: 43	Resp:	126	
Ion	Ratio	Lower	Upper
43	100		
45	268.3	8.1	12.1#
61	0.0	7.4	11.2#
70	0.0	7.3	10.9#



#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

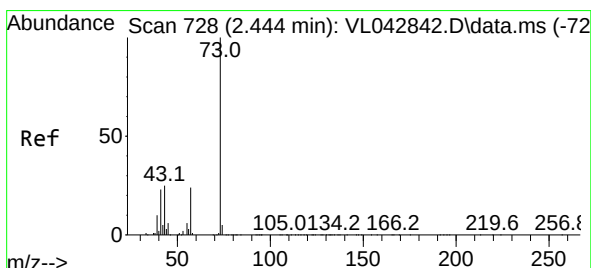
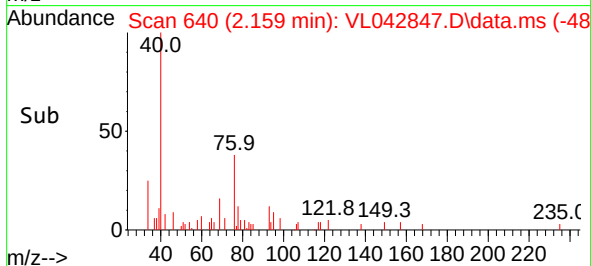
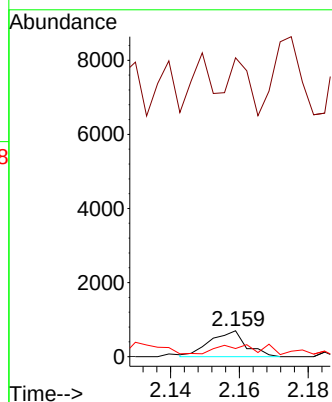
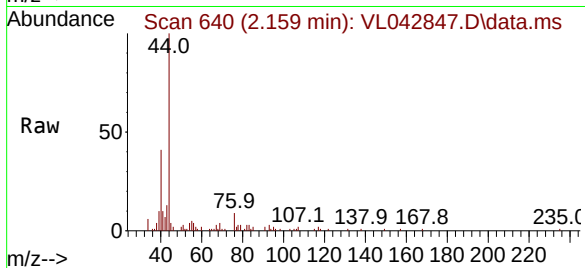
Tgt Ion: 76 Resp: 509

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

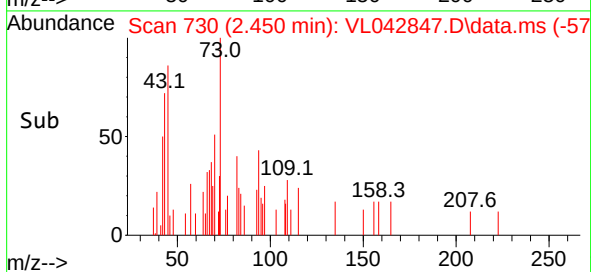
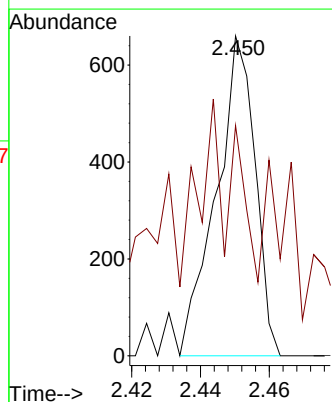
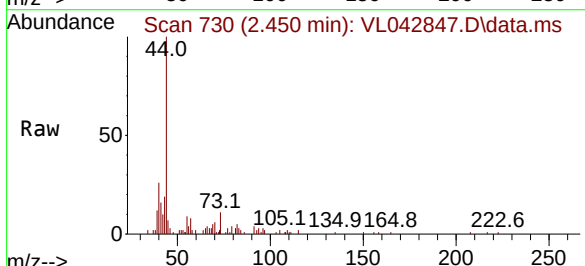
Acq: 13 Aug 2025 11:30

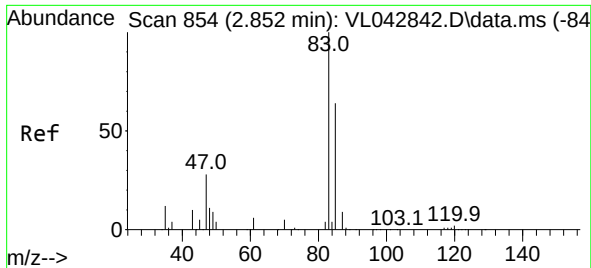
Tgt Ion: 73 Resp: 517

Ion Ratio Lower Upper

73 100

57 159.0 21.6 32.4#

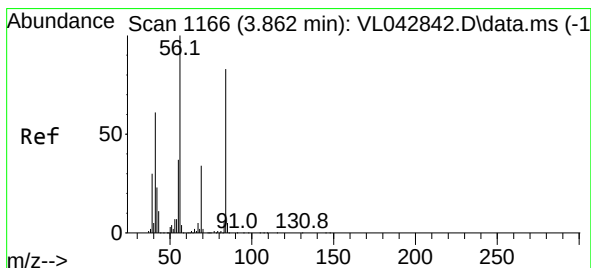
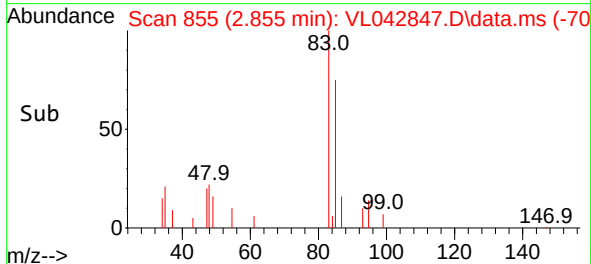
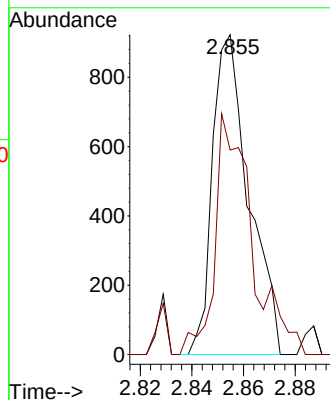
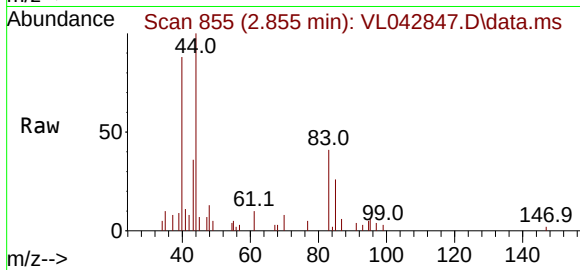




#29
Chloroform
Concen: 0.035 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

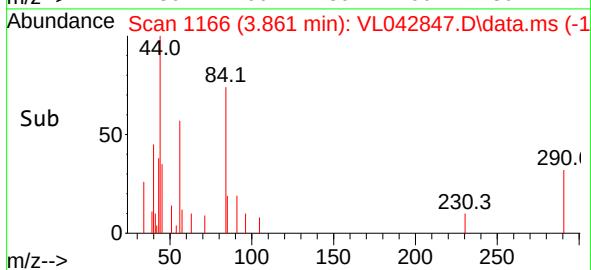
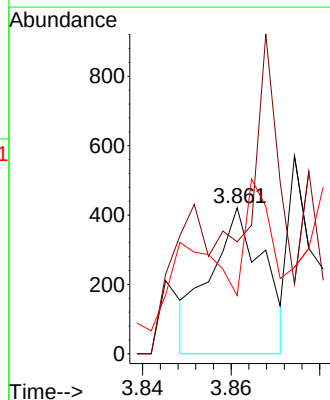
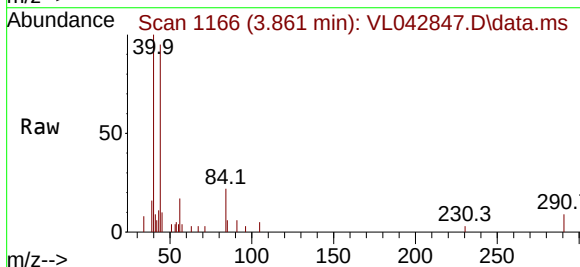
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

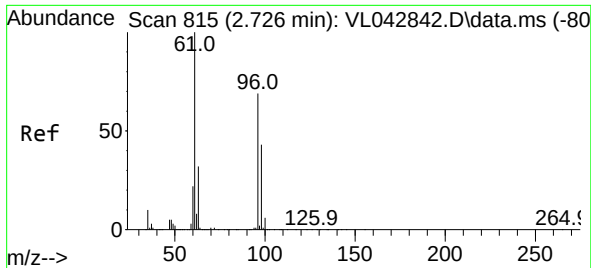
Tgt Ion: 83 Resp: 902
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7



#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#

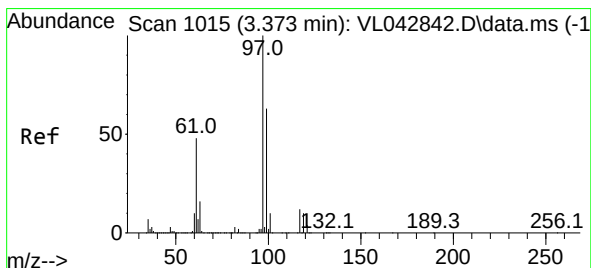
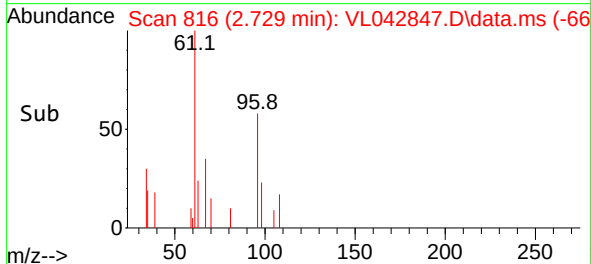
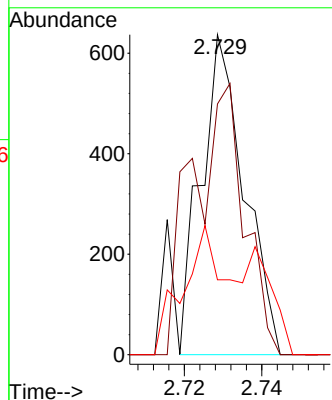
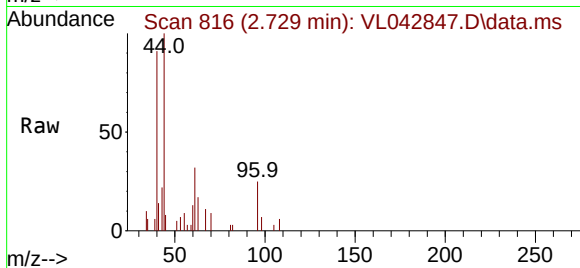




#31
 cis-1,2-Dichloroethene
 Concen: 0.027 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

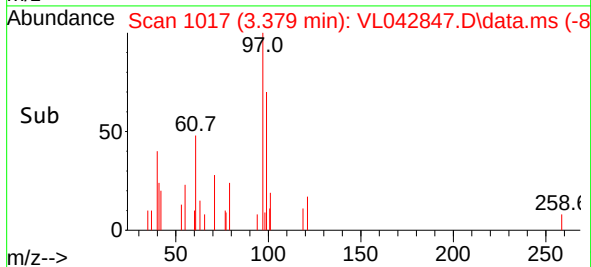
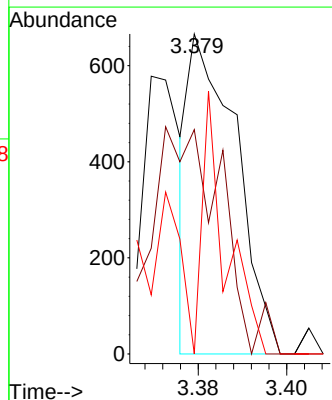
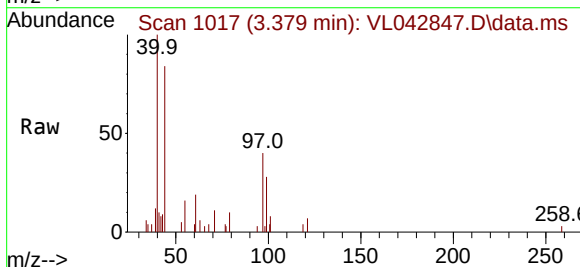
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

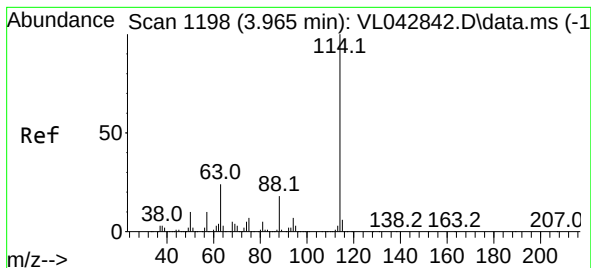
Tgt Ion:	61	Resp:	497
Ion	Ratio	Lower	Upper
61	100		
96	78.3	55.0	82.6
98	9.4	34.3	51.5



#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

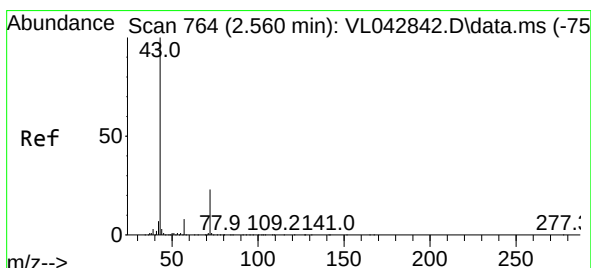
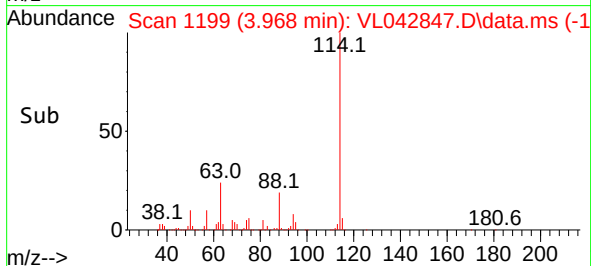
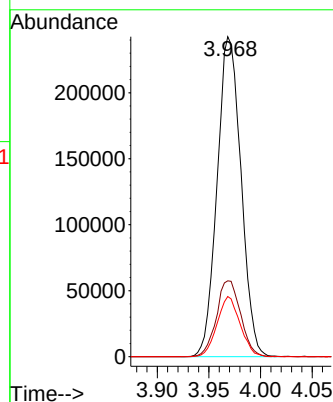
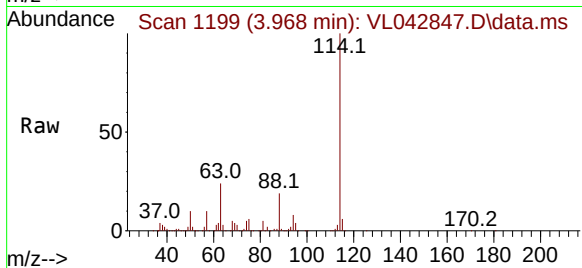
Tgt Ion:114 Resp: 390076

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

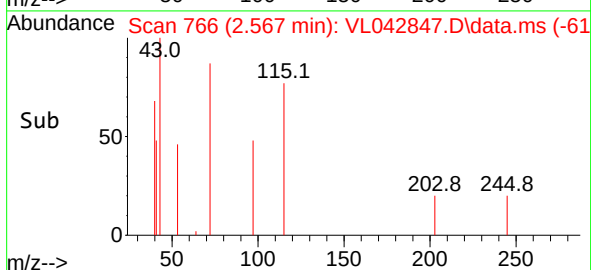
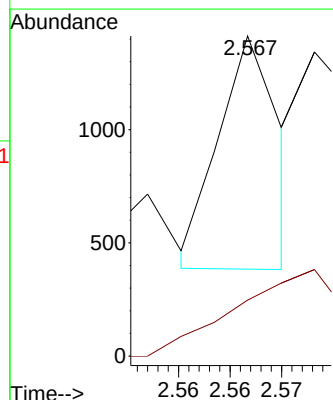
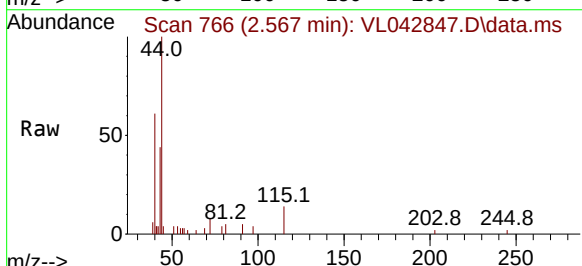
Acq: 13 Aug 2025 11:30

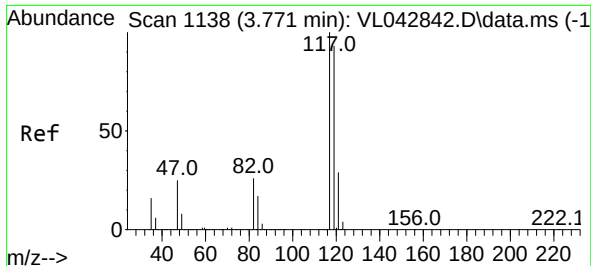
Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

43 100

72 0.0 18.6 28.0#

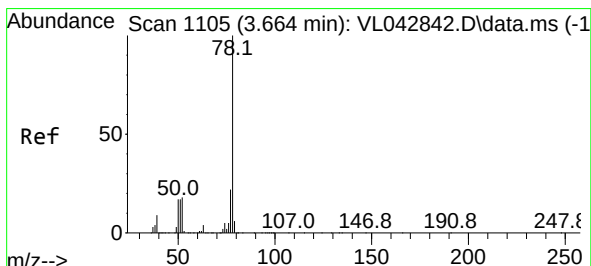
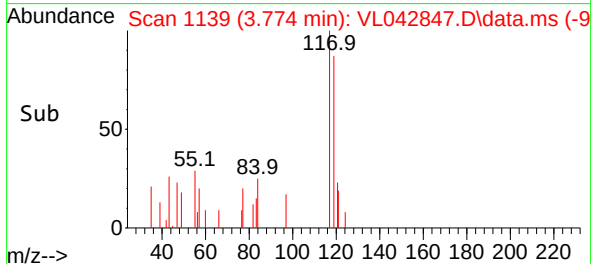
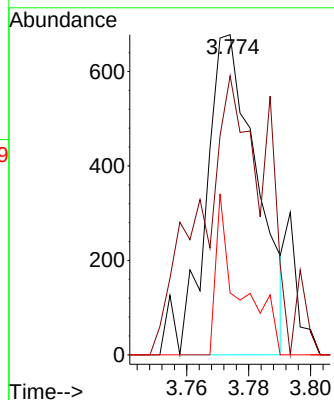
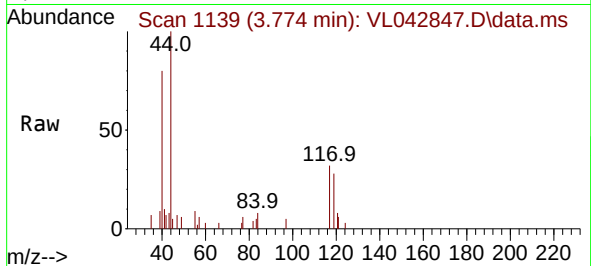




#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

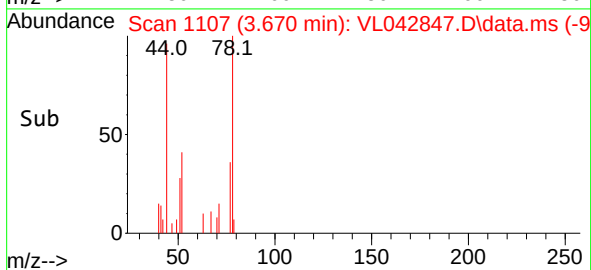
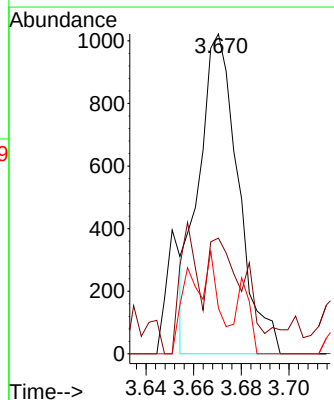
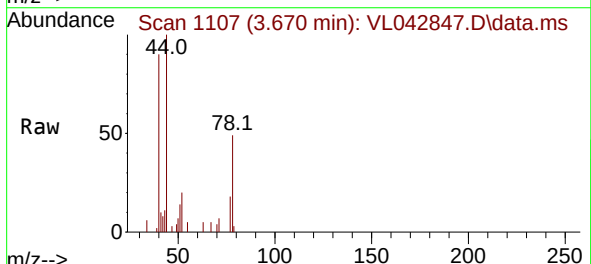
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

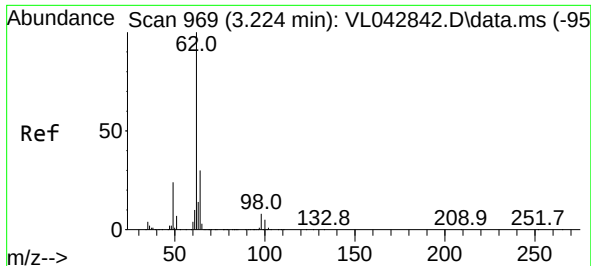
Tgt Ion:117 Resp: 756
Ion Ratio Lower Upper
117 100
119 59.0 74.7 112.1#
121 19.3 23.2 34.8#



#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#

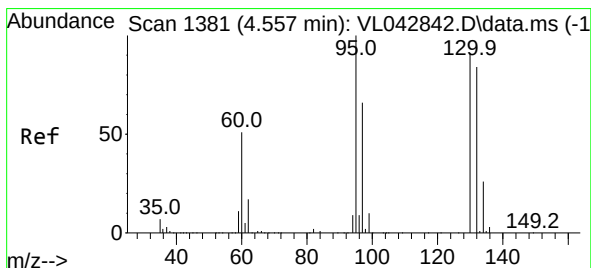
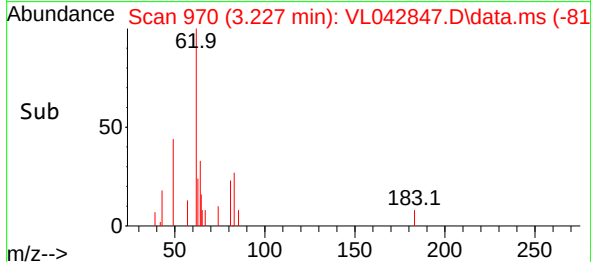
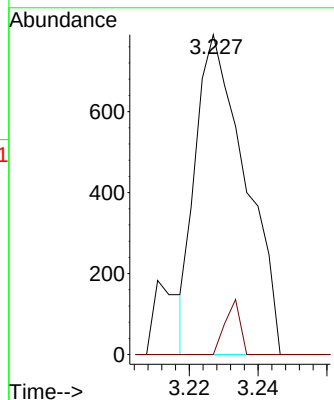
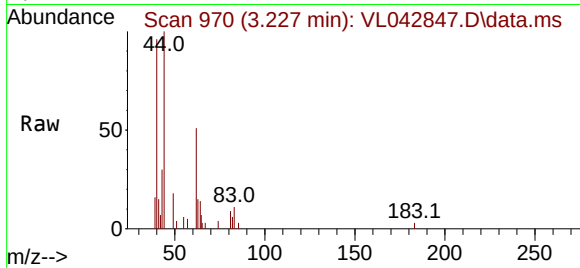




#37
1,2-Dichloroethane
Concen: 0.041 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

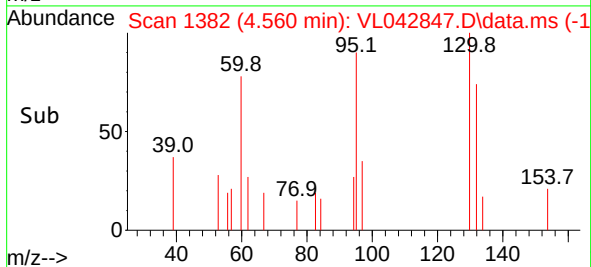
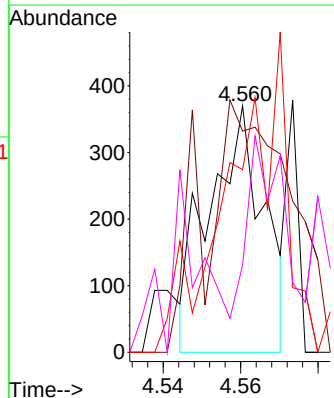
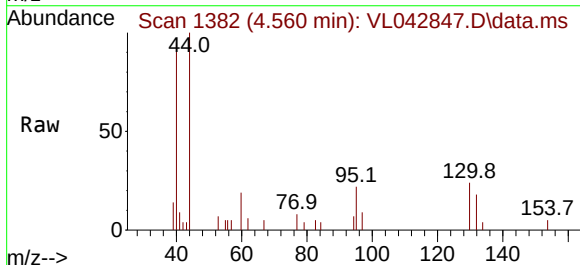
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

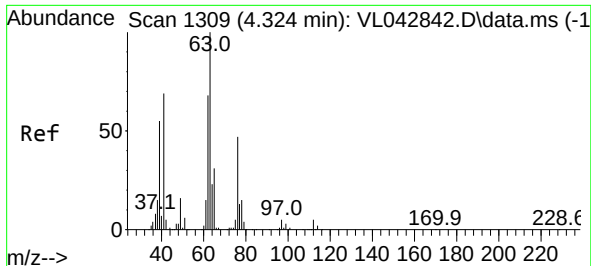
Tgt Ion: 62 Resp: 792
Ion Ratio Lower Upper
62 100
98 5.2 5.9 8.9#



#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

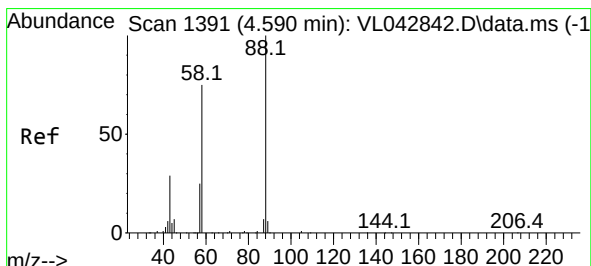
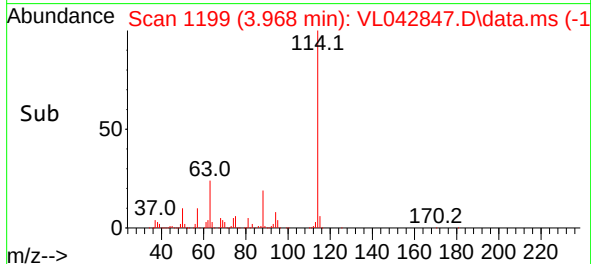
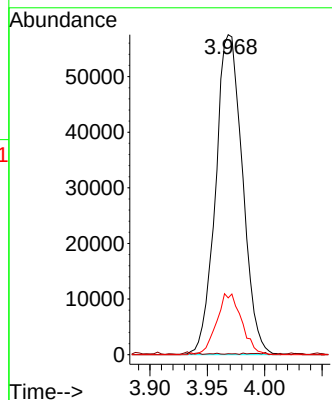
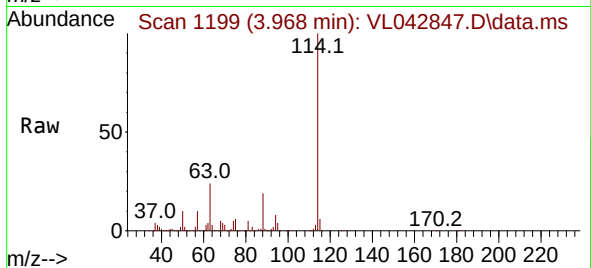
Tgt Ion: 63 Resp: 93873

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

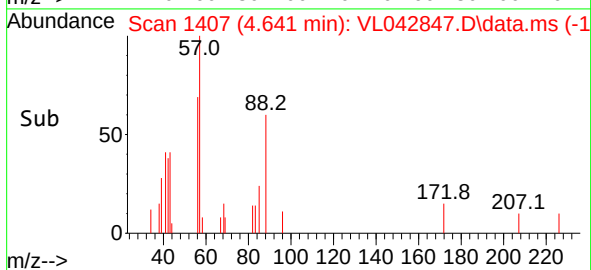
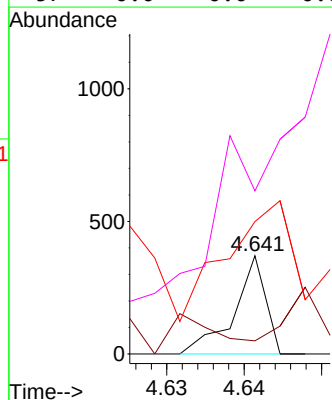
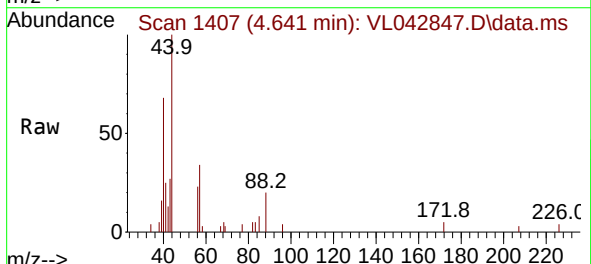
Ion Ratio Lower Upper

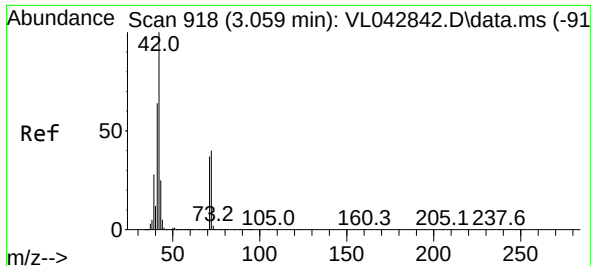
88 100

58 239.0 53.8 80.6#

43 781.0 22.8 34.2#

57 0.0 0.0 0.0

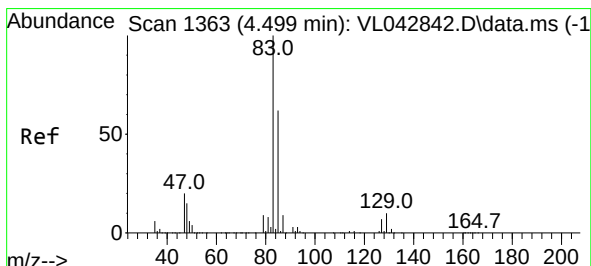
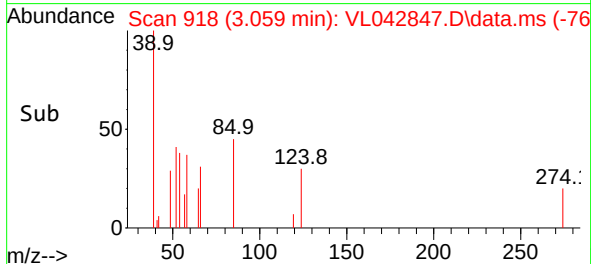
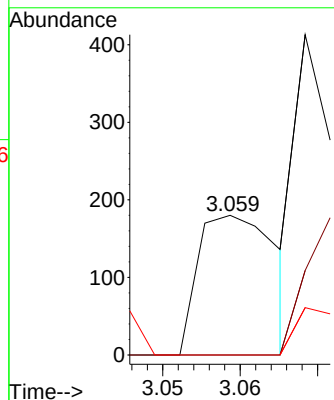
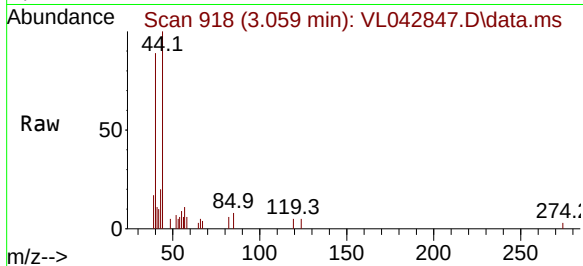




#41
Tetrahydrofuran
Concen: 0.009 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

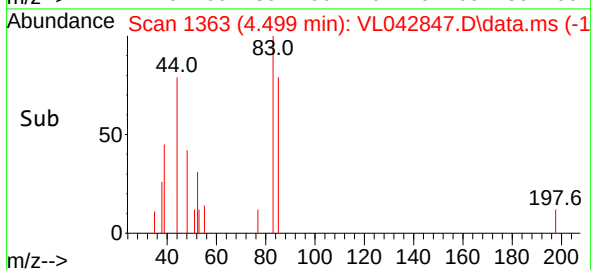
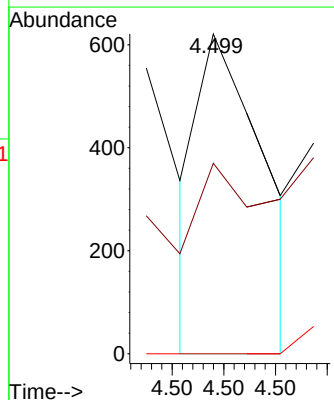
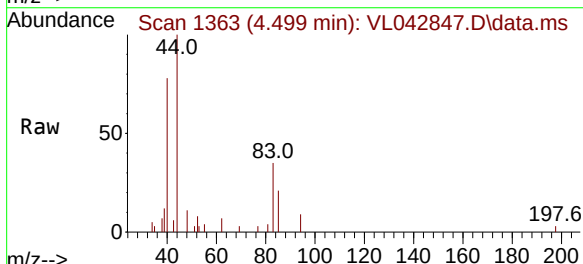
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

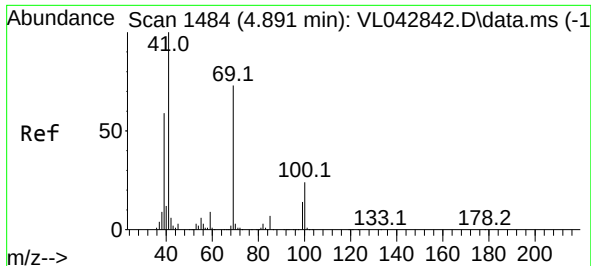
Tgt Ion:	42	Resp:	127
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.6	48.8#
71	0.0	30.0	45.0#



#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#

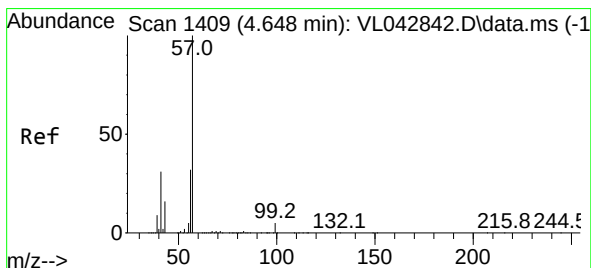
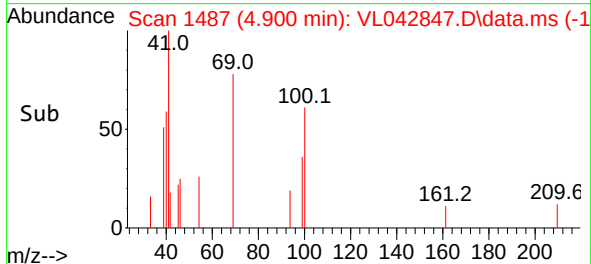
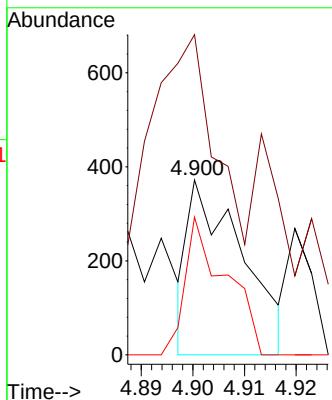
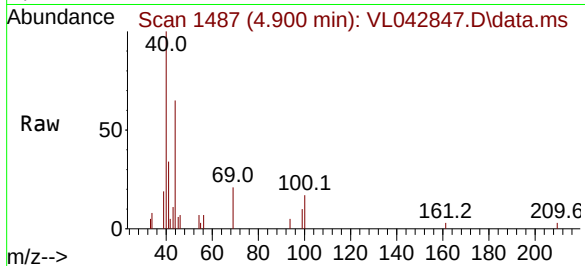




#43
Methyl Methacrylate
Concen: 0.018 ppbv
RT: 4.900 min Scan# 1410
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

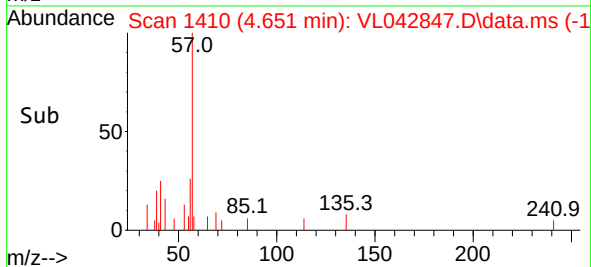
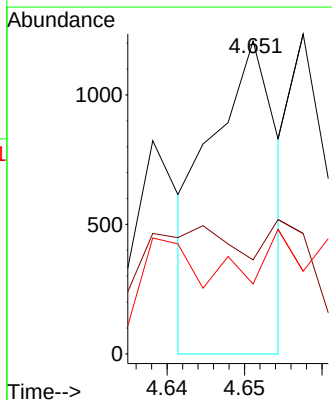
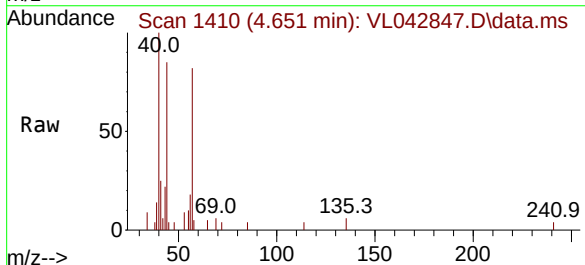
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

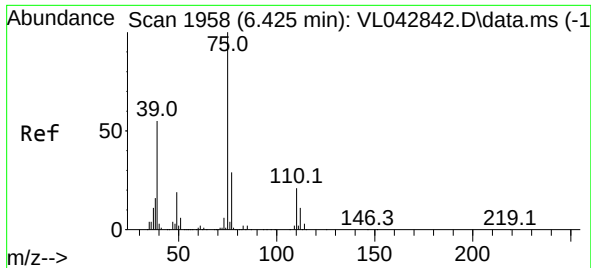
Tgt Ion: 69 Resp: 270
Ion Ratio Lower Upper
69 100
41 466.3 114.6 172.0#
100 59.6 30.2 45.4#



#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#

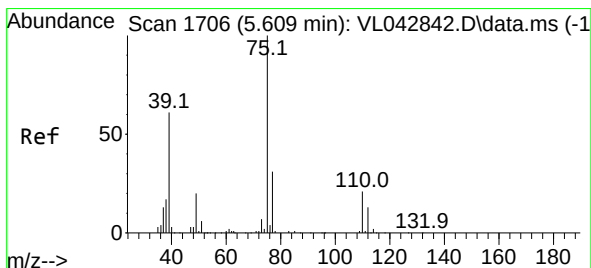
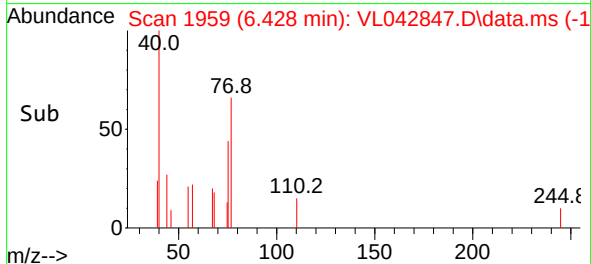
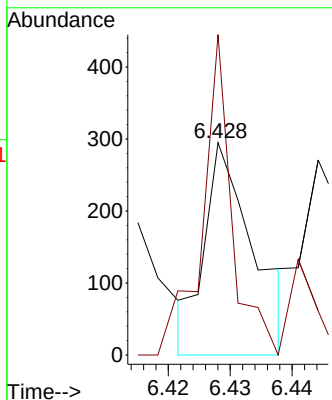
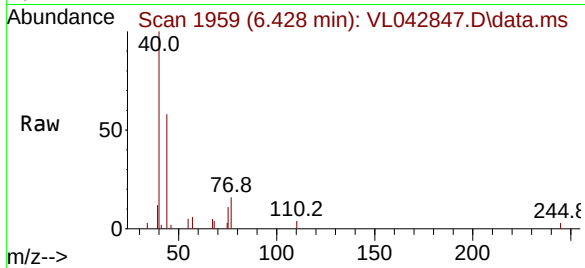




#45
 t-1,3-Dichloropropene
 Concen: 0.009 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

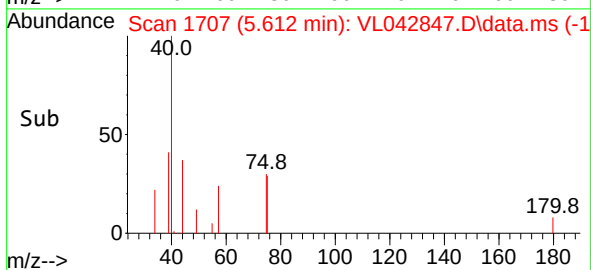
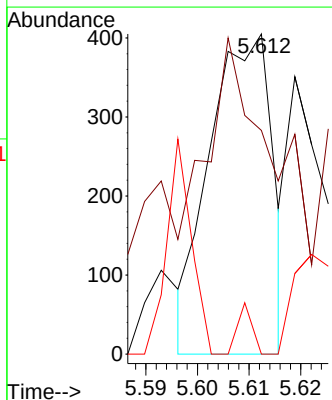
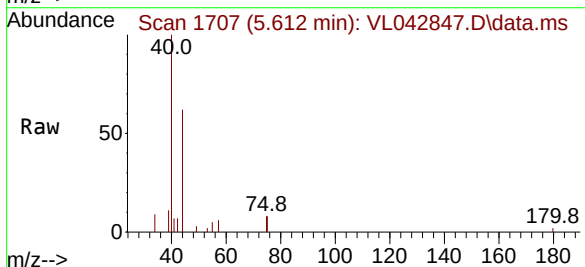
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

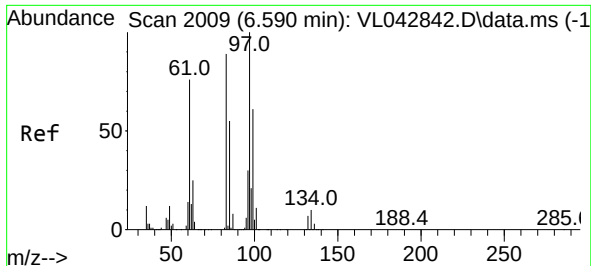
Tgt Ion: 75 Resp: 162
 Ion Ratio Lower Upper
 75 100
 77 150.8 23.8 35.6#



#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

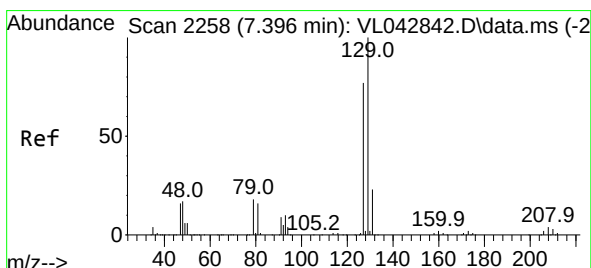
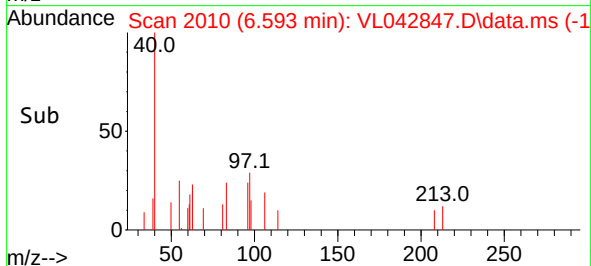
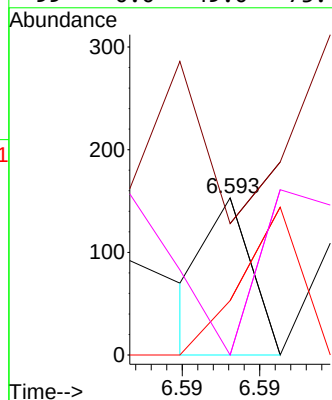
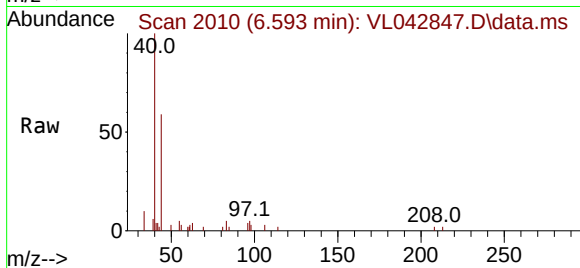
Ion Ratio Lower Upper

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

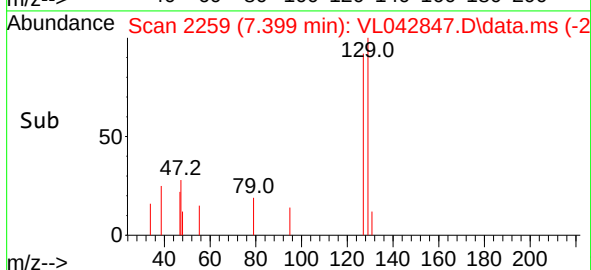
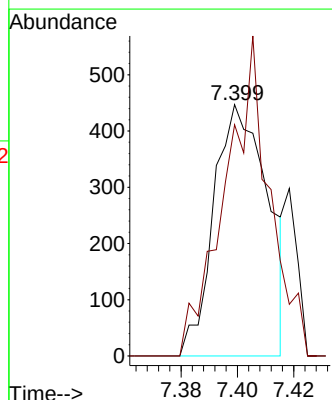
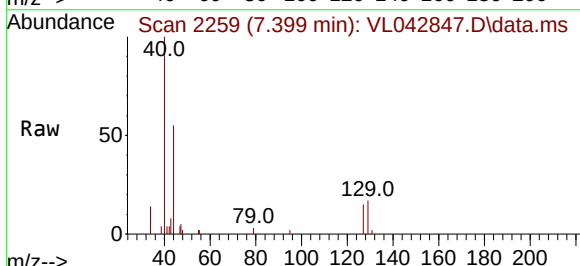
Acq: 13 Aug 2025 11:30

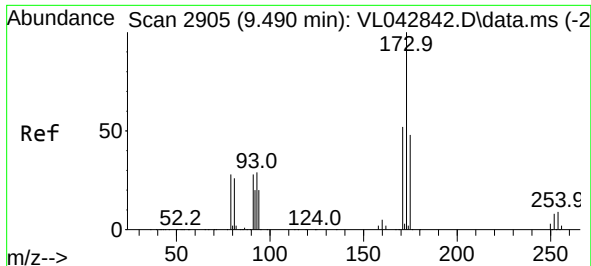
Tgt Ion: 129 Resp: 593

Ion Ratio Lower Upper

129 100

127 104.0 39.4 118.2

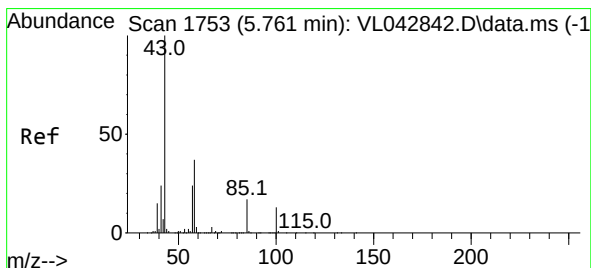
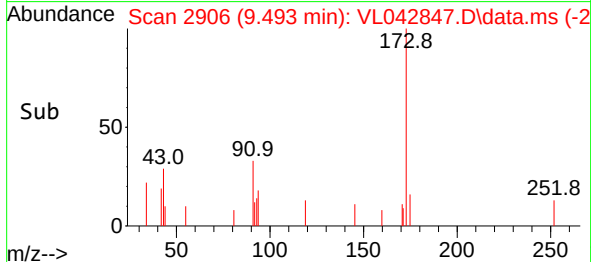
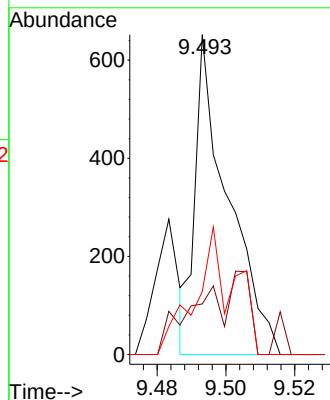
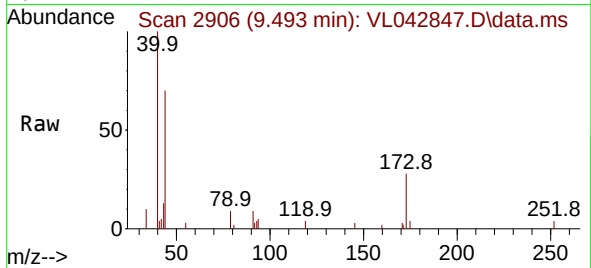




#49
Bromoform
Concen: 0.022 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

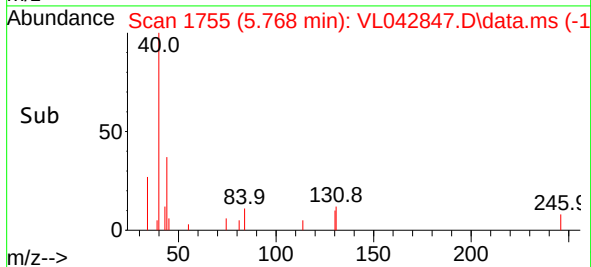
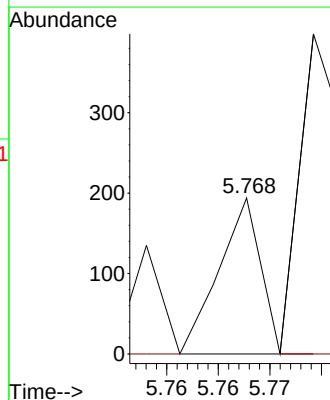
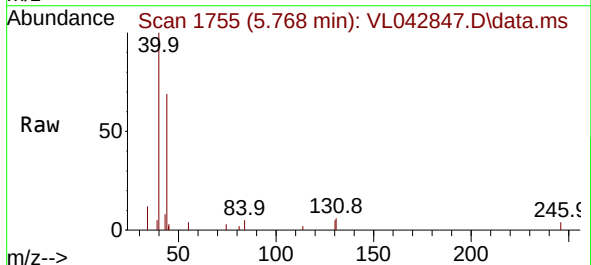
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

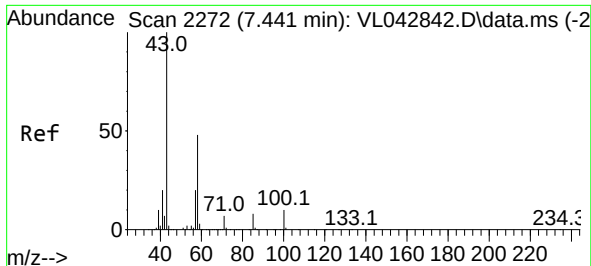
Tgt Ion:173 Resp: 431
Ion Ratio Lower Upper
173 100
175 43.9 39.2 58.8
171 46.9 41.3 61.9



#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#

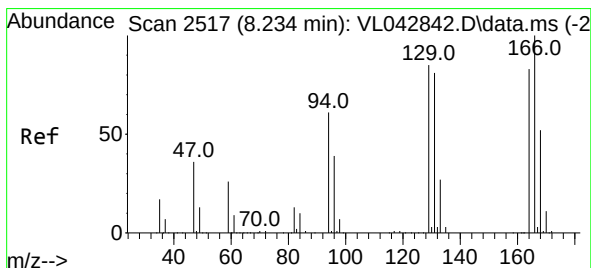
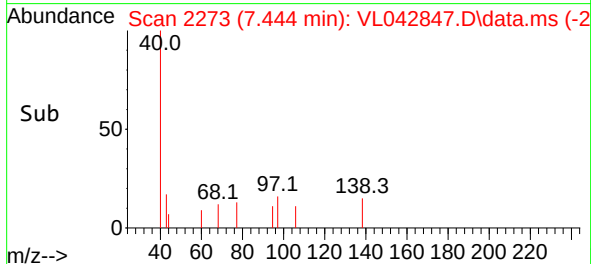
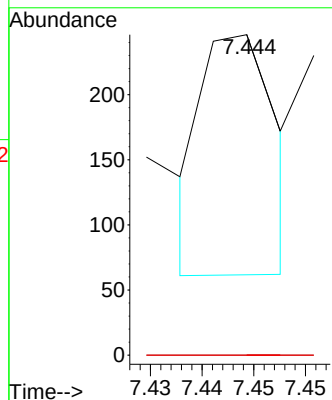
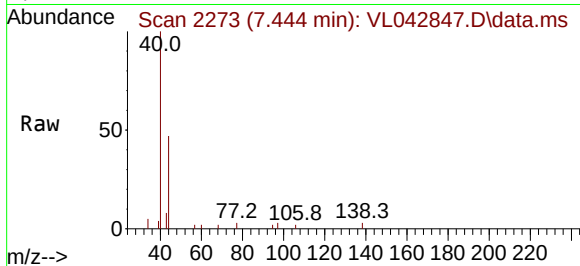




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.444 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

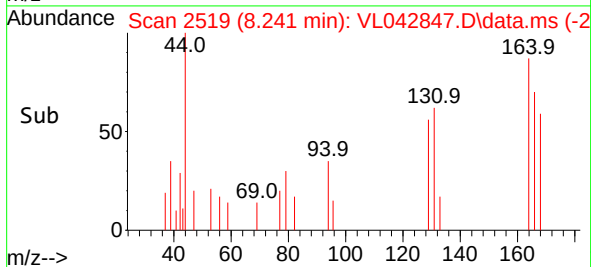
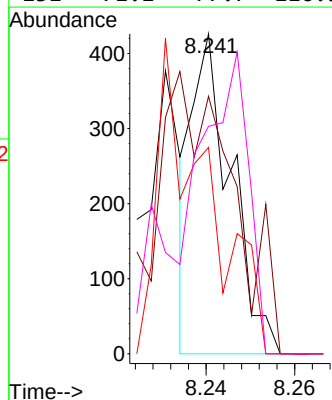
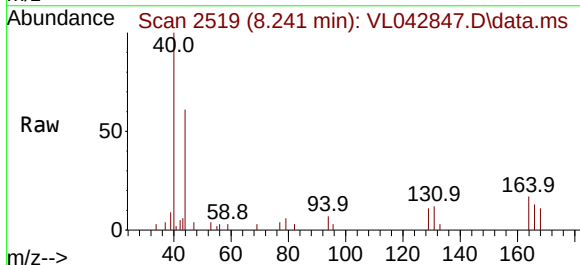
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

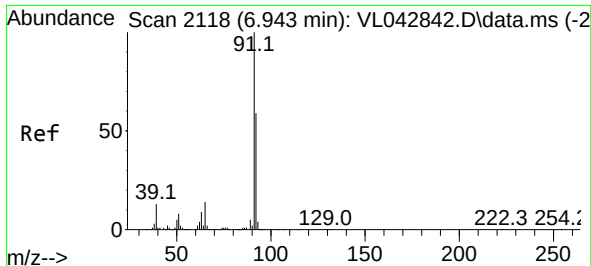
Tgt Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#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#

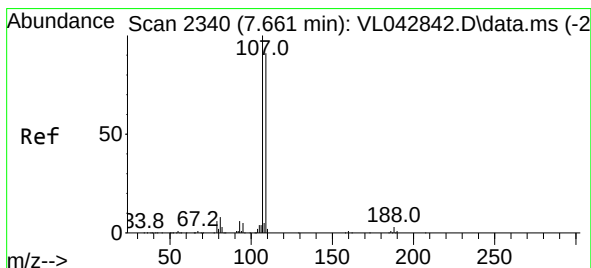
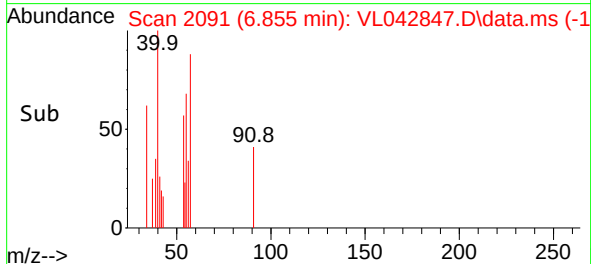
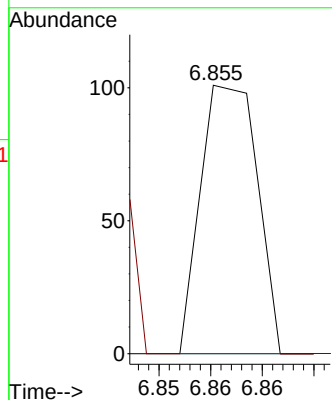
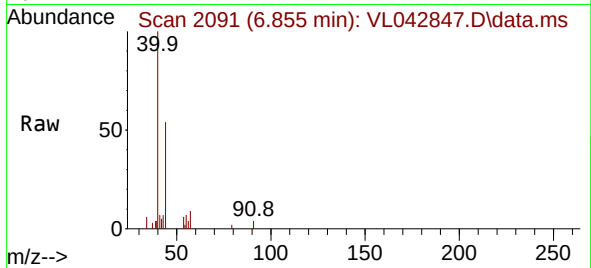




#53
Toluene
Concen: 0.001 ppbv
RT: 6.855 min Scan# 2091
Delta R.T. -0.088 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

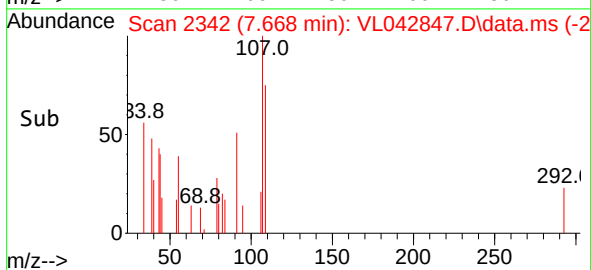
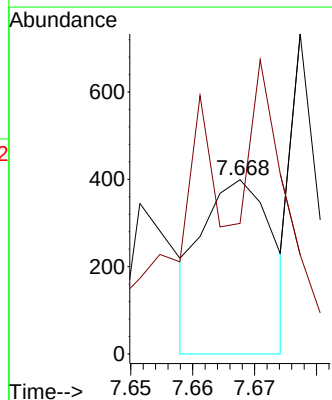
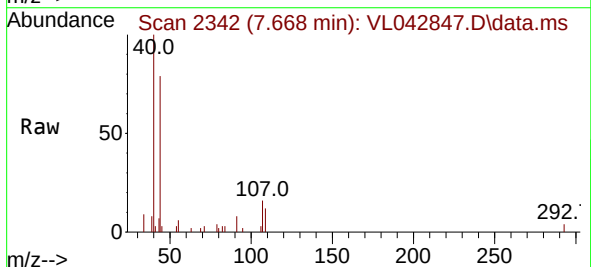
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

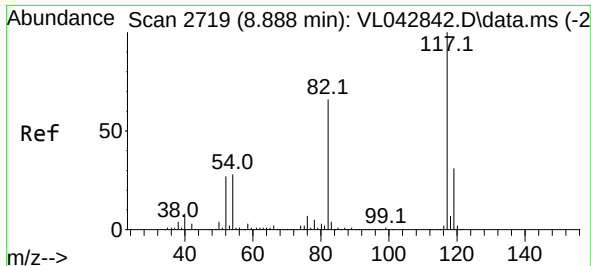
Tgt Ion: 91 Resp: 39
Ion Ratio Lower Upper
91 100
92 59.0 47.8 71.6



#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#

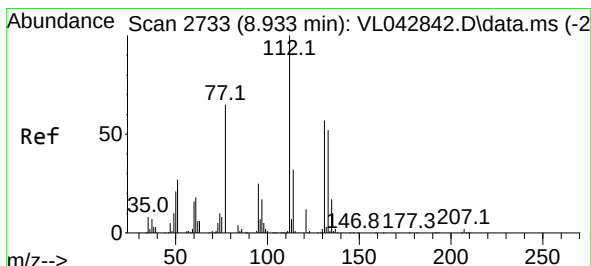
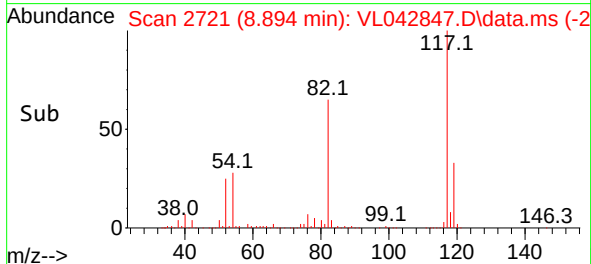
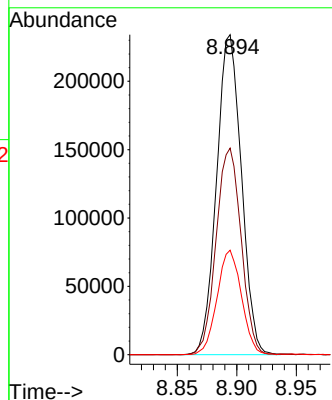
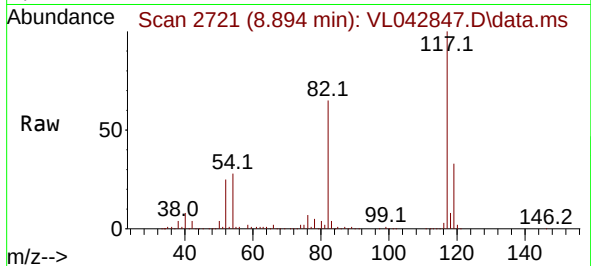




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

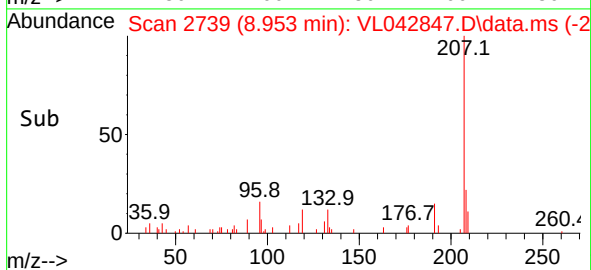
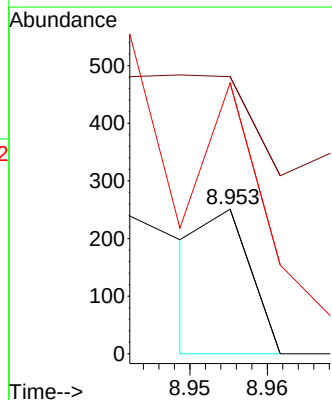
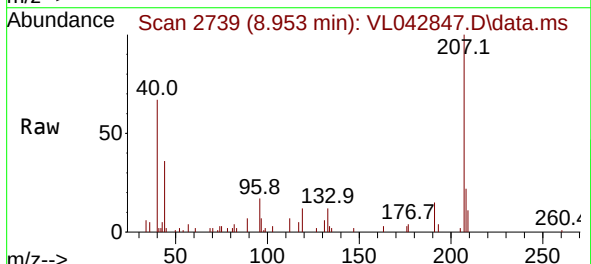
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

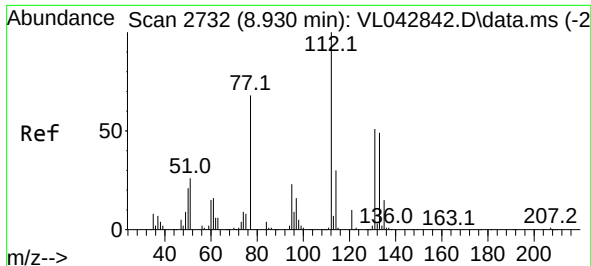
Tgt Ion:117 Resp: 339700
Ion Ratio Lower Upper
117 100
82 65.1 54.6 81.8
119 32.2 25.9 38.9



#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#

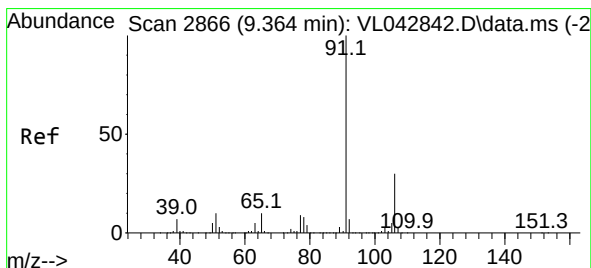
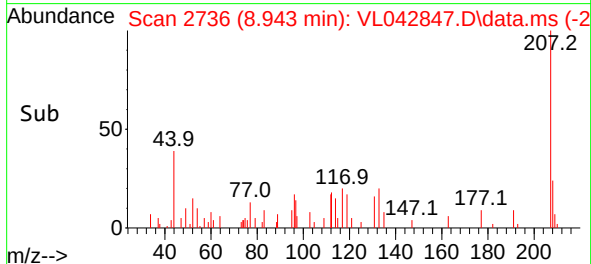
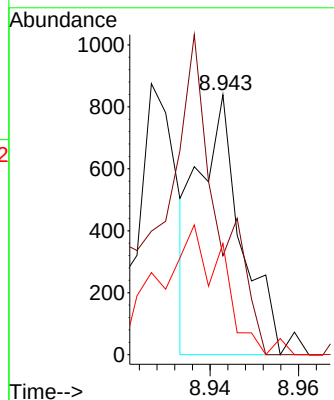
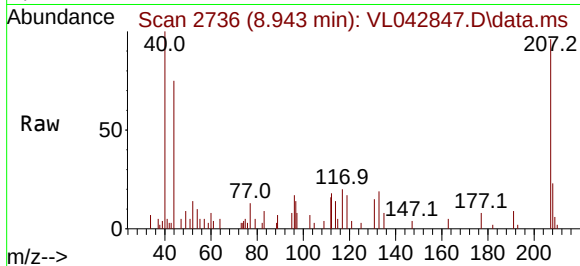




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.943 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

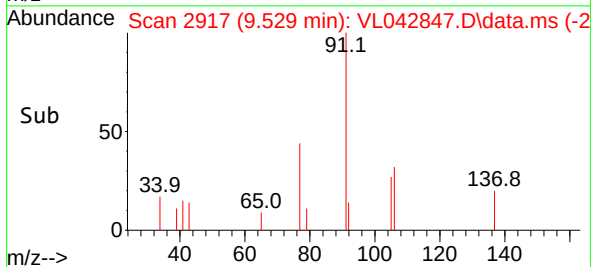
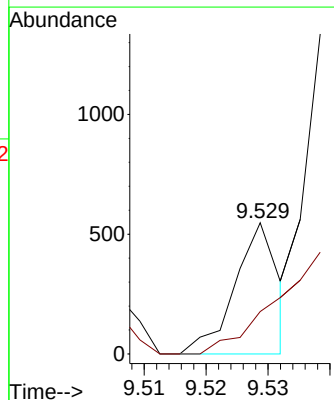
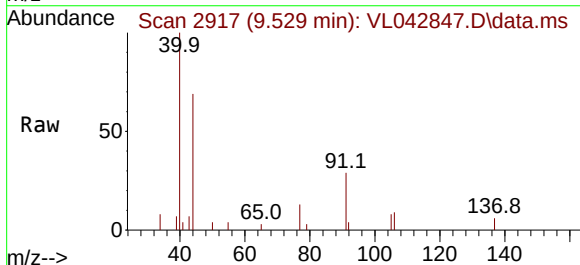
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

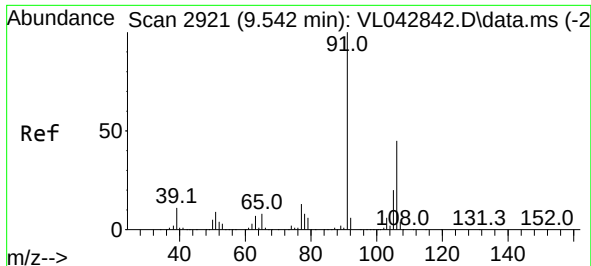
Tgt Ion:112 Resp: 561
Ion Ratio Lower Upper
112 100
77 38.0 55.5 83.3#
114 36.6 27.2 33.2#



#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: 91 Resp: 267
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 :

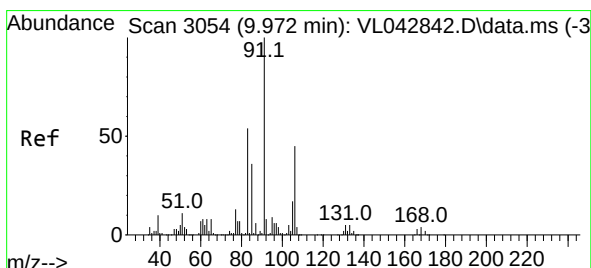
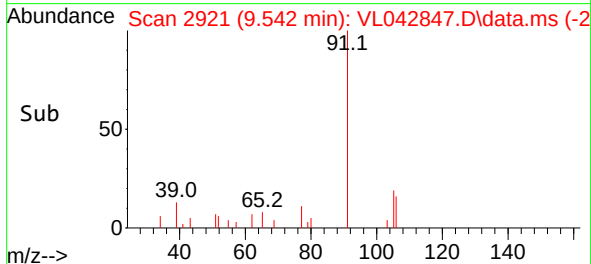
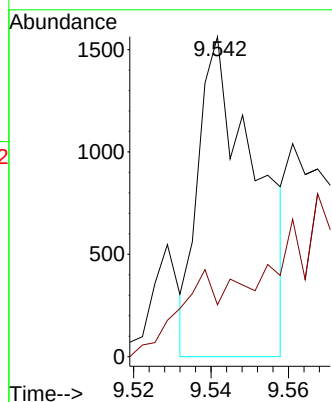
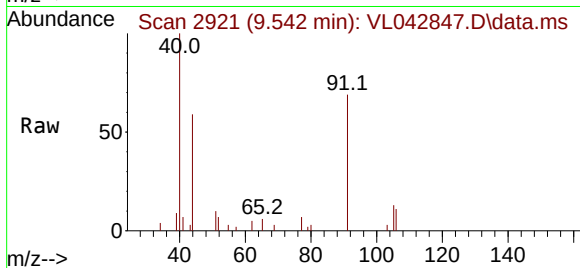
VSTDIC0.03

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

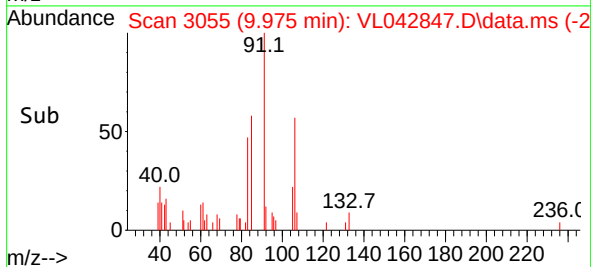
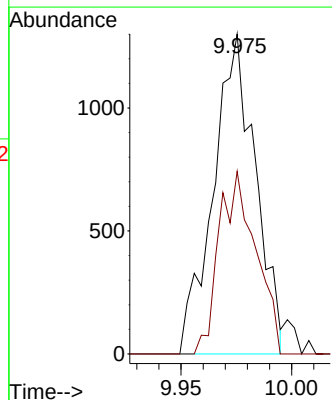
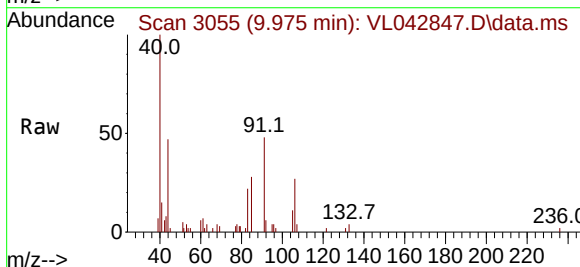
Acq: 13 Aug 2025 11:30

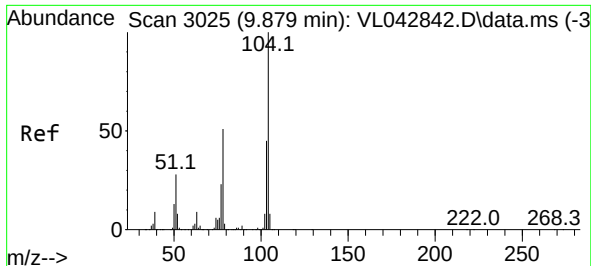
Tgt Ion: 91 Resp: 1722

Ion Ratio Lower Upper

91 100

106 49.8 21.8 65.4

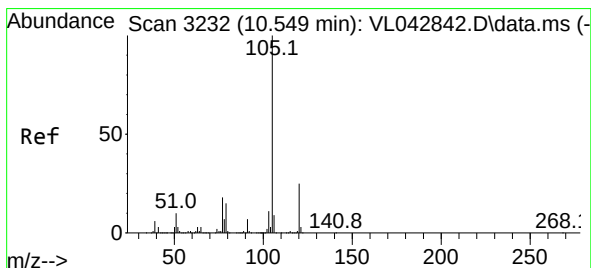
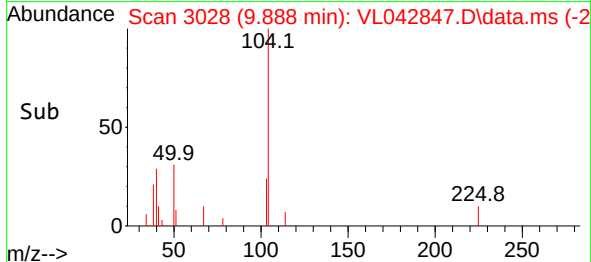
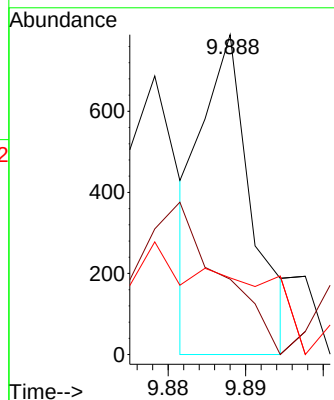
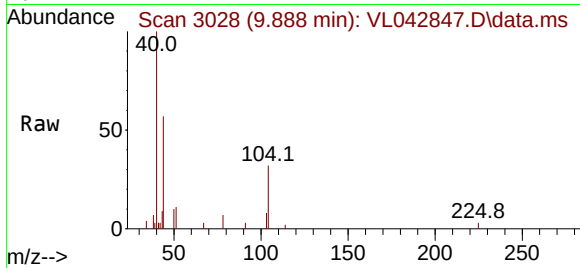




#61
Styrene
Concen: 0.016 ppbv
RT: 9.888 min Scan# 3025
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

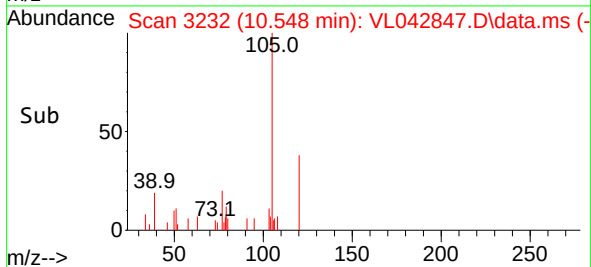
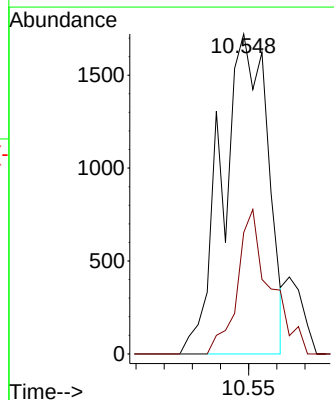
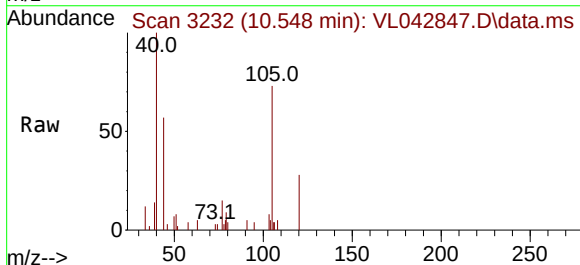
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

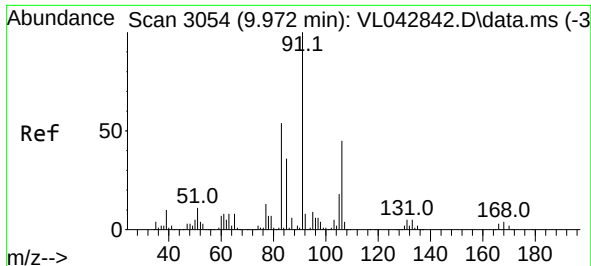
Tgt Ion:104 Resp: 354
Ion Ratio Lower Upper
104 100
78 0.0 40.6 61.0#
103 0.0 37.7 56.5#



#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#

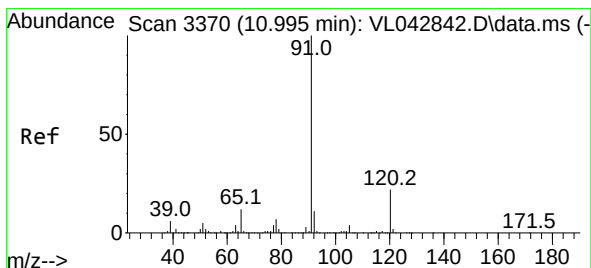
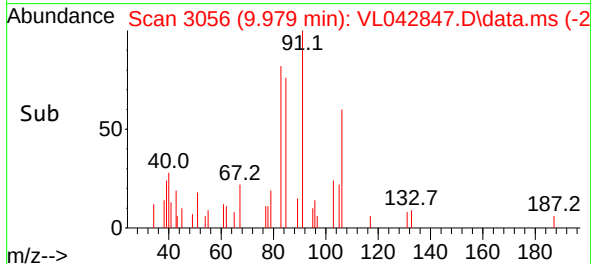
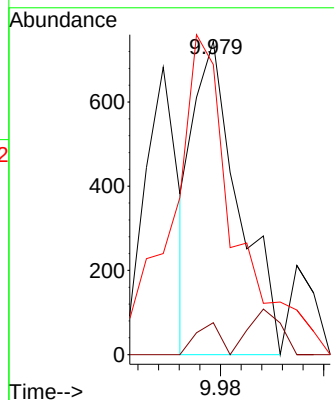
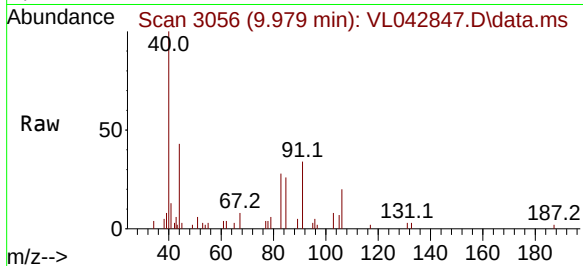




#63
1,1,2,2-Tetrachloroethane
Concen: 0.017 ppbv
RT: 9.979 min Scan# 3054
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

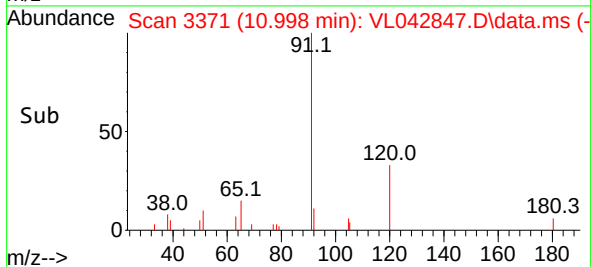
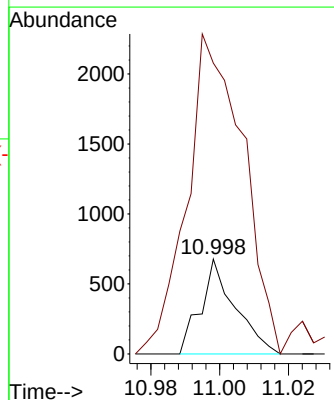
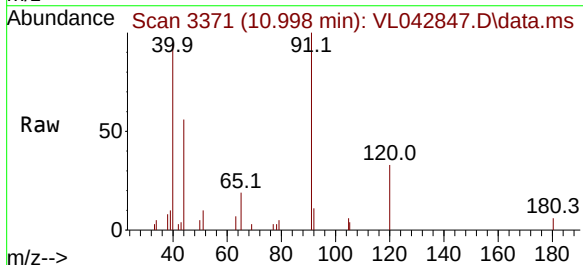
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

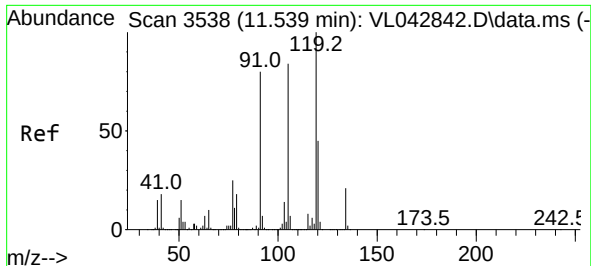
Tgt Ion: 83 Resp: 451
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 154.3 32.3 96.8#



#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#

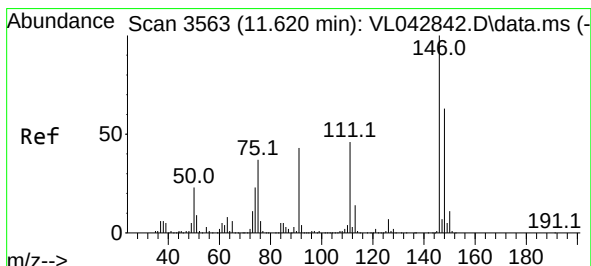
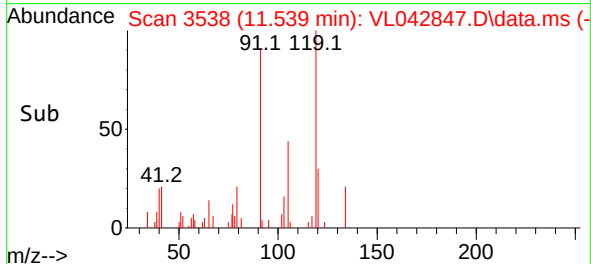
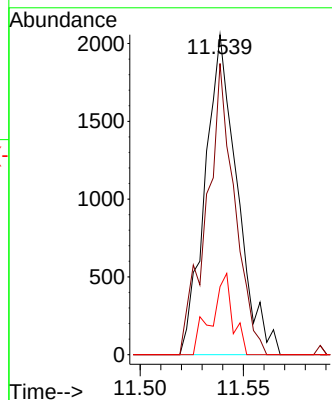
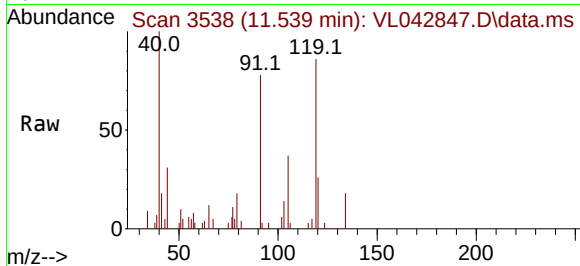




#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

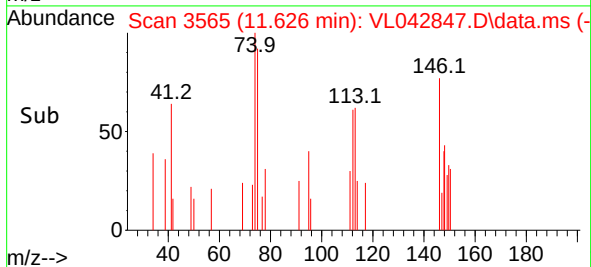
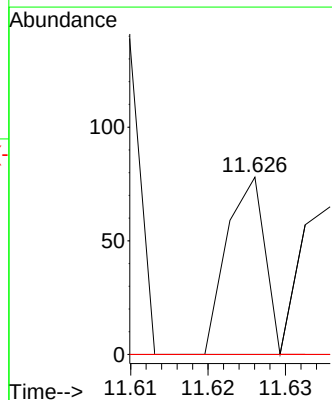
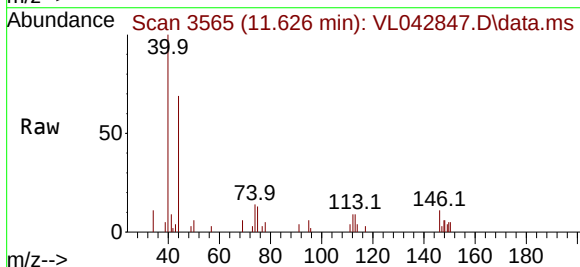
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

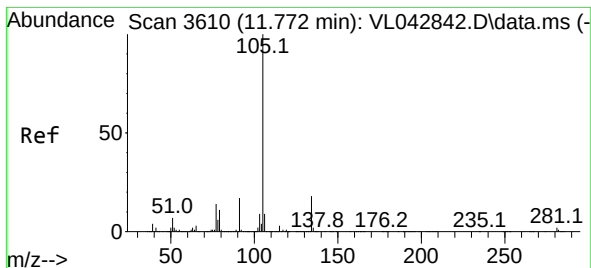
Tgt Ion:119	Resp:	2234
Ion	Ratio	Lower Upper
119	100	
91	79.5	63.9 95.9
134	16.7	17.0 25.4#



#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# 3

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

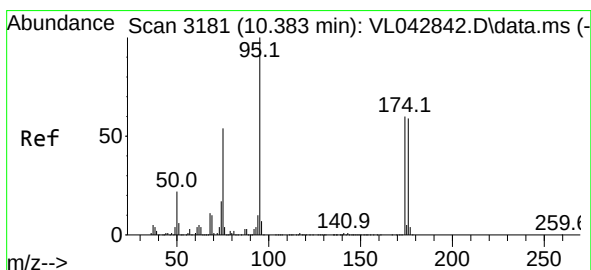
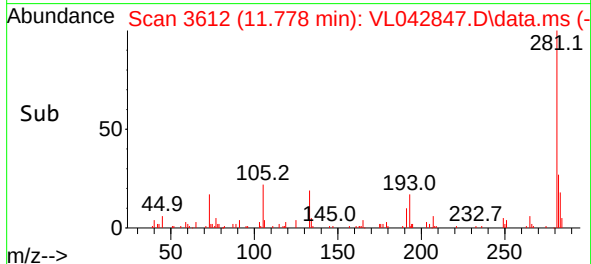
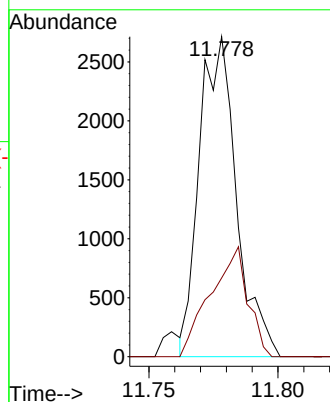
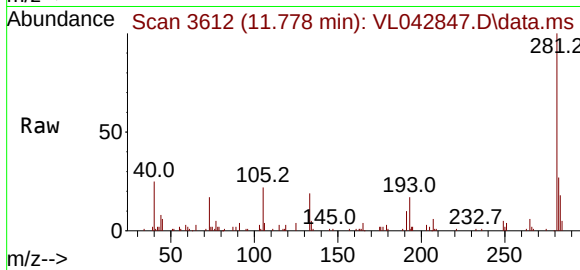
VSTDICC0.03

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

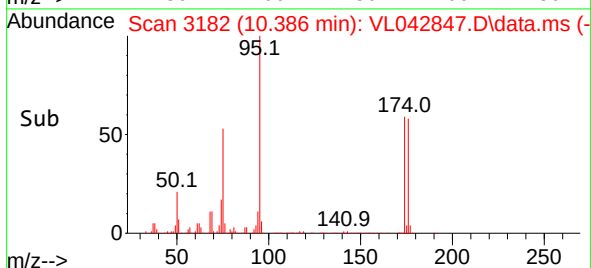
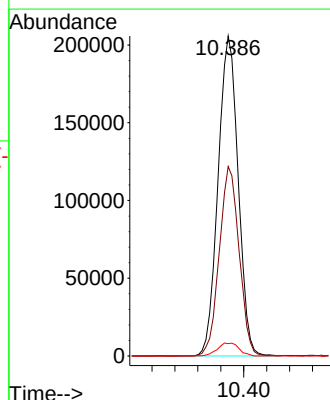
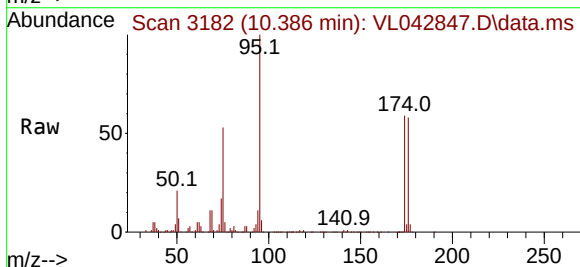
Tgt Ion: 95 Resp: 250082

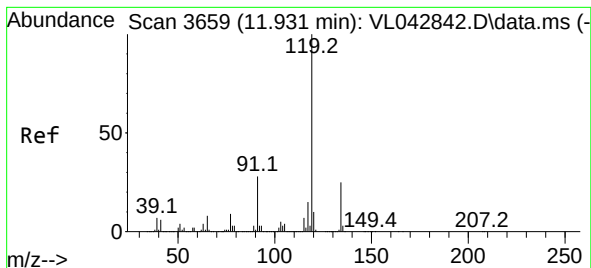
Ion Ratio Lower Upper

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_1

ClientSampleId :

VSTDIC0.03

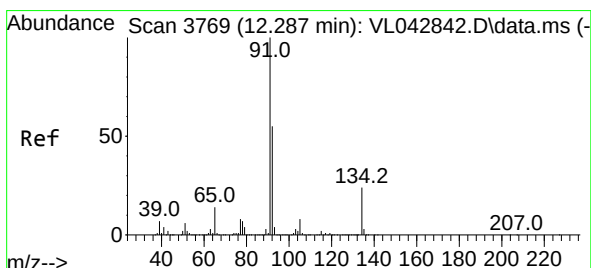
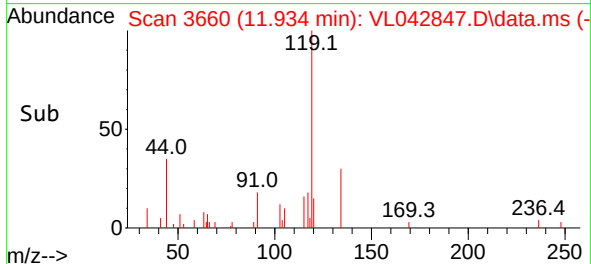
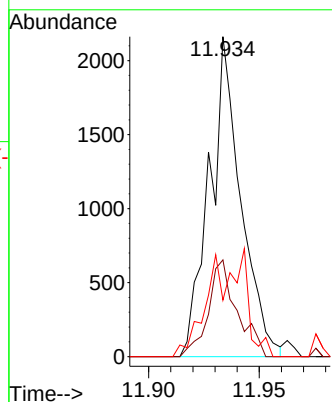
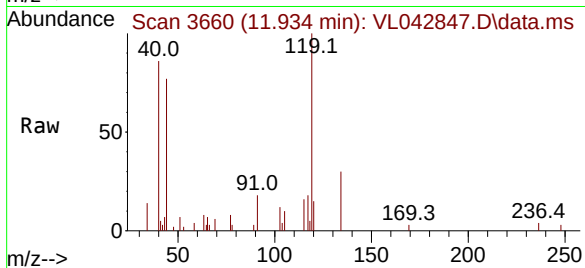
Tgt Ion:119 Resp: 2136

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

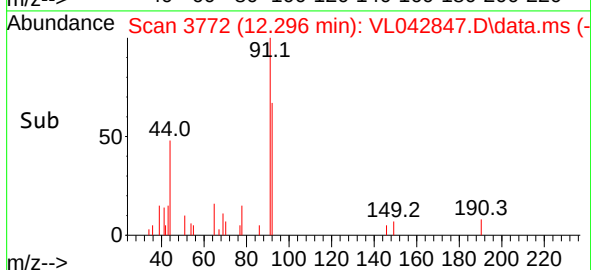
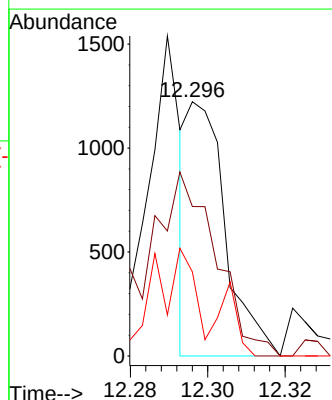
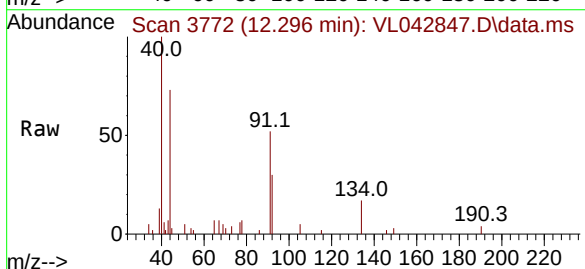
Tgt Ion: 91 Resp: 829

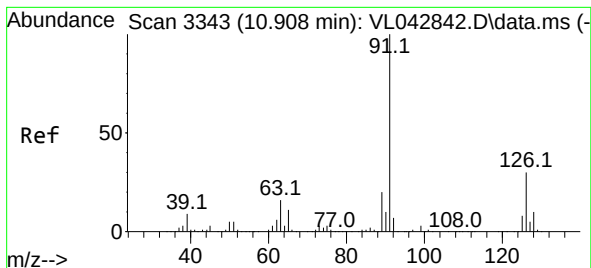
Ion Ratio Lower Upper

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 :

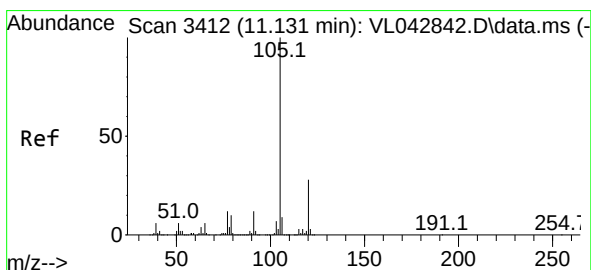
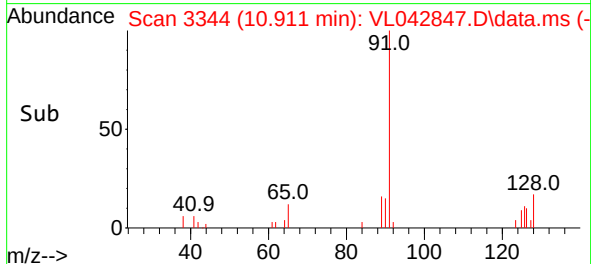
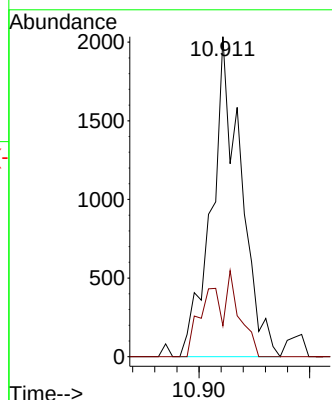
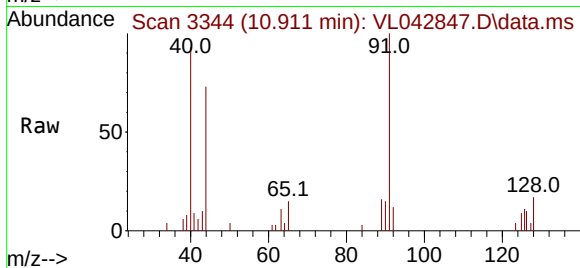
VSTDICC0.03

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

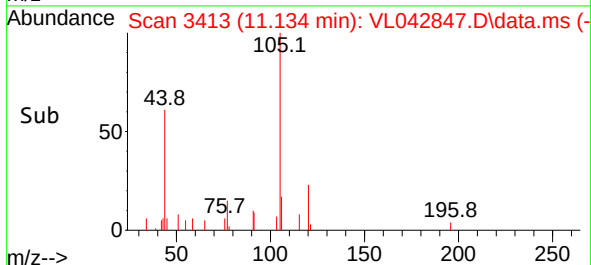
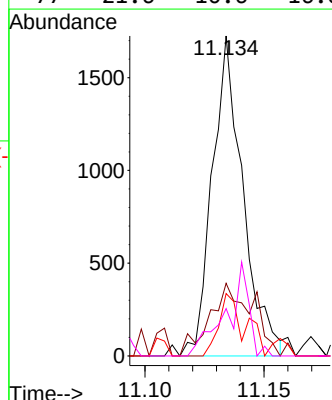
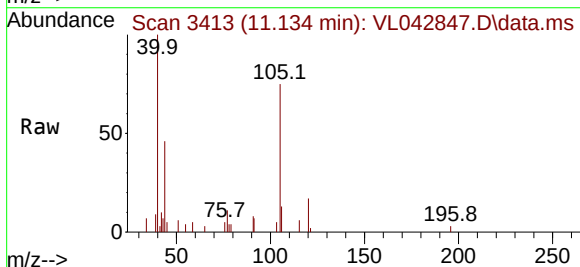
Ion Ratio Lower Upper

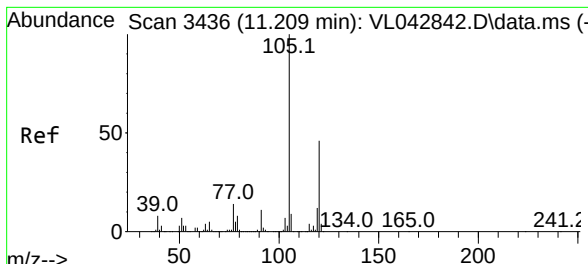
105 100

120 37.8 23.4 35.2#

91 21.4 9.8 14.6#

77 21.6 10.6 16.0#

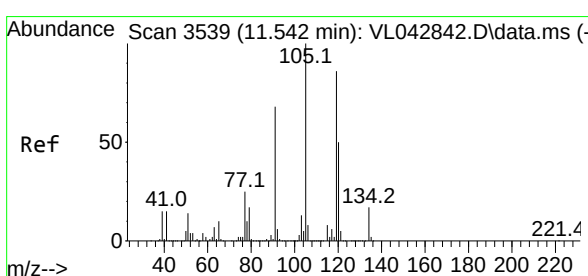
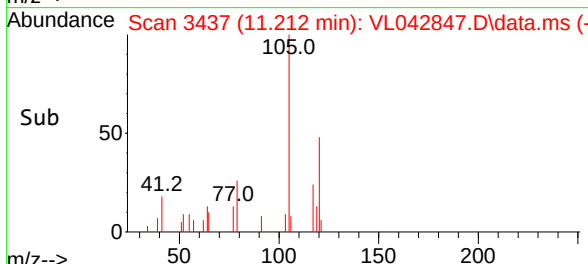
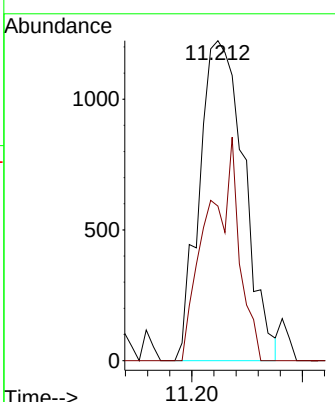
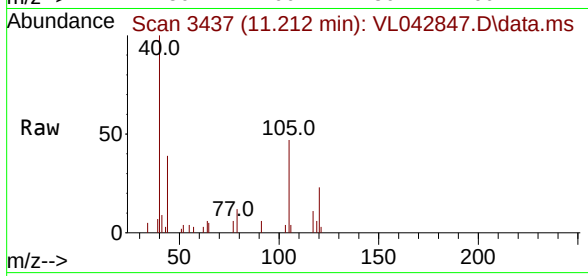




#73
 1,3,5-Trimethylbenzene
 Concen: 0.035 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

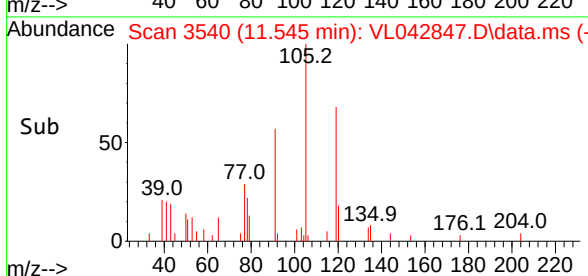
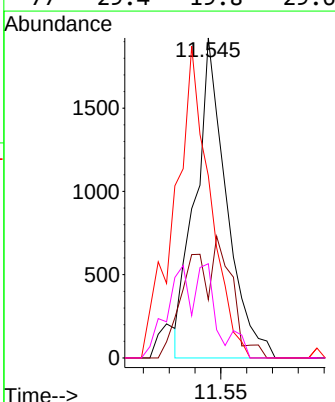
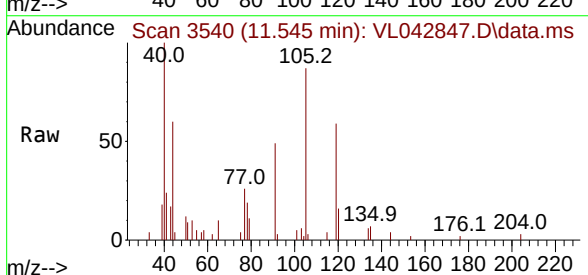
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

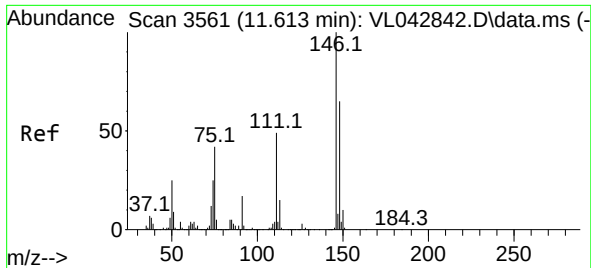
Tgt Ion:	105	Resp:	1716
Ion Ratio	Lower	Upper	
105	100		
120	48.3	36.6	54.8



#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

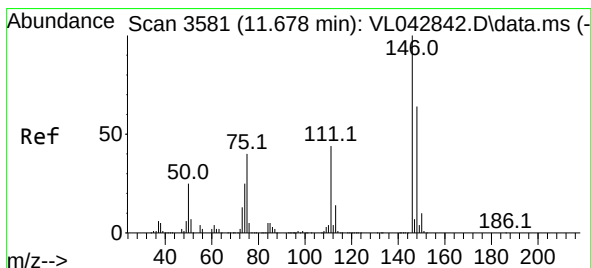
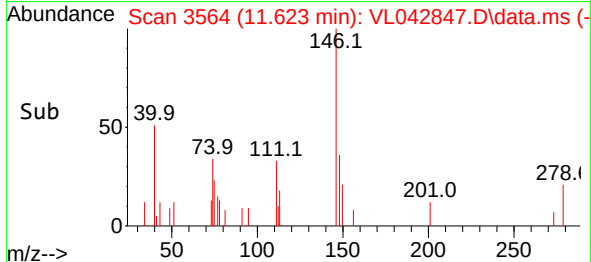
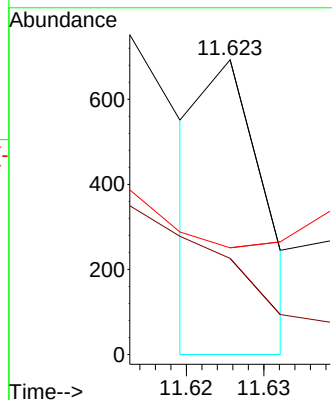
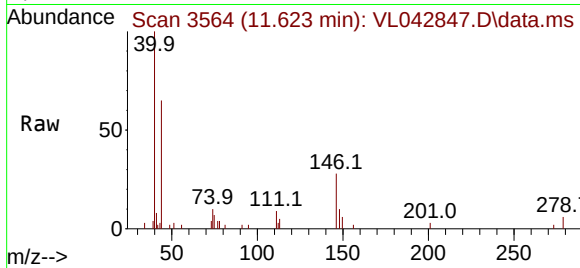




#75
1,3-Dichlorobenzene
Concen: 0.006 ppbv
RT: 11.623 min Scan# 3561
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

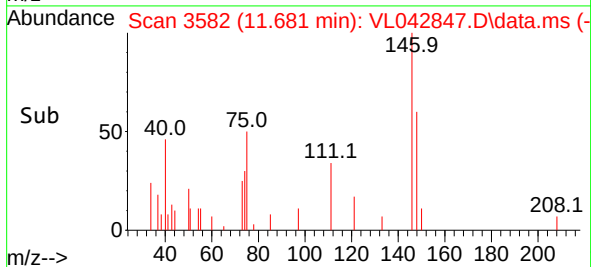
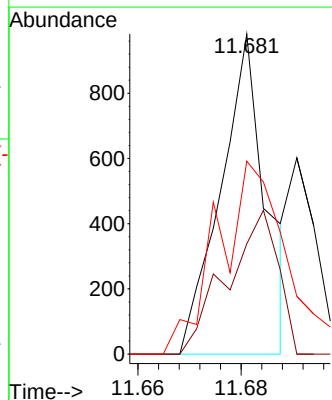
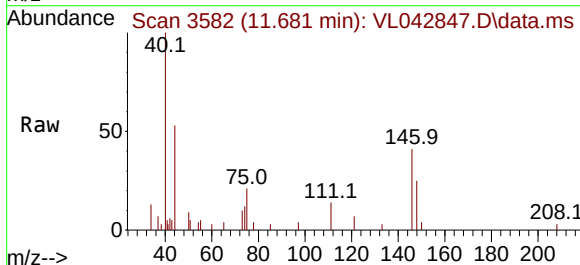
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

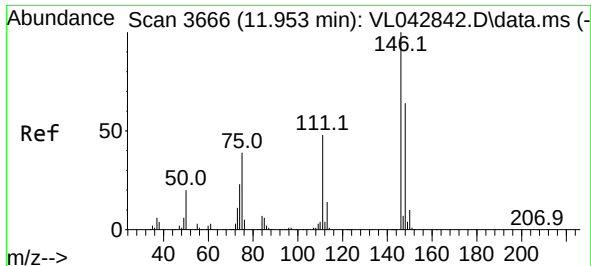
Tgt Ion:146 Resp: 182
Ion Ratio Lower Upper
146 100
111 0.0 23.9 71.7#
148 0.0 31.4 94.0#



#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

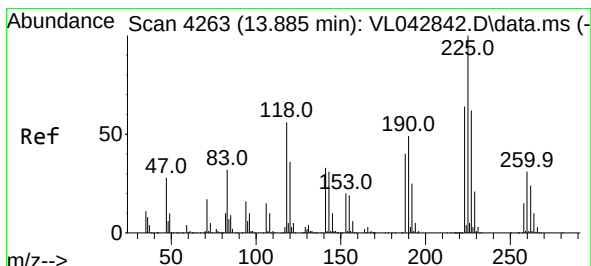
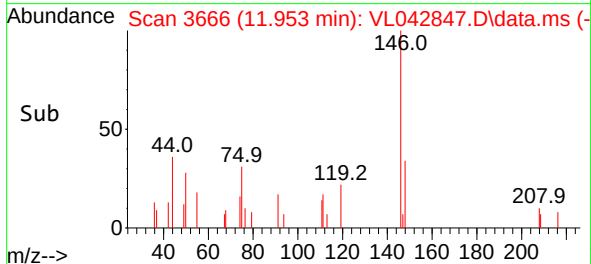
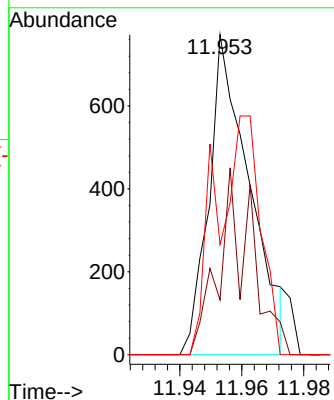
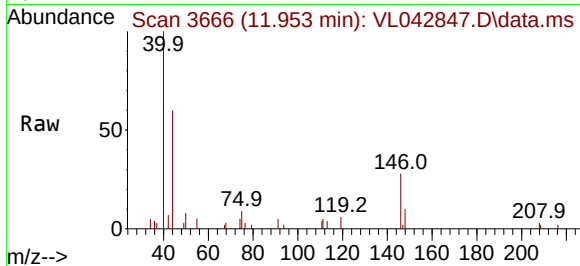




#77
1,2-Dichlorobenzene
Concen: 0.024 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

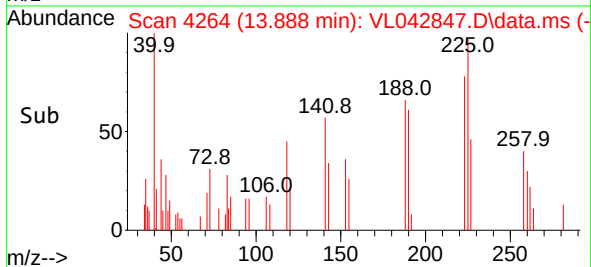
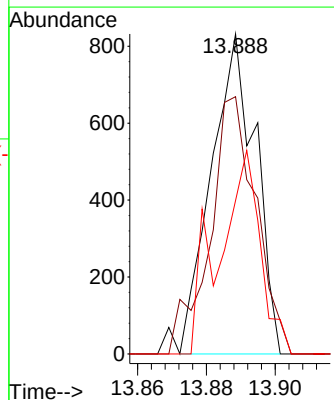
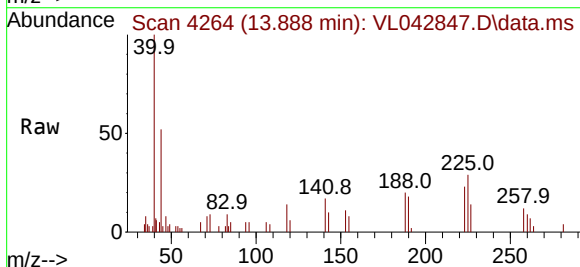
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

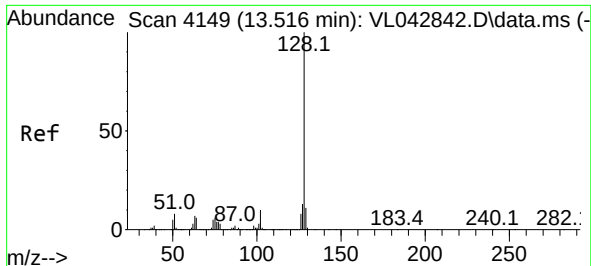
Tgt Ion:146 Resp: 701
Ion Ratio Lower Upper
146 100
111 46.9 24.6 74.0
148 80.2 32.0 96.0



#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

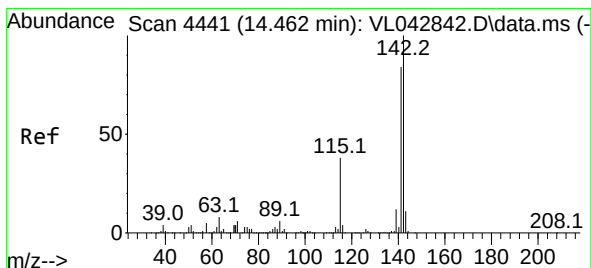
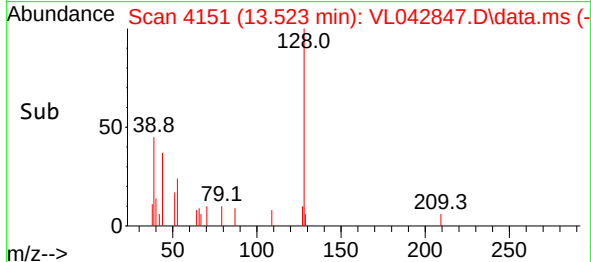
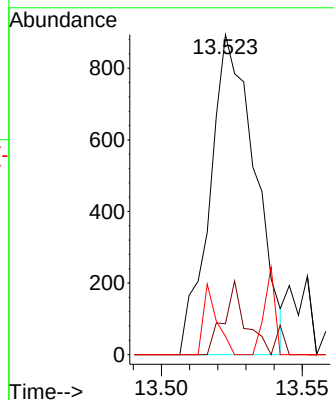
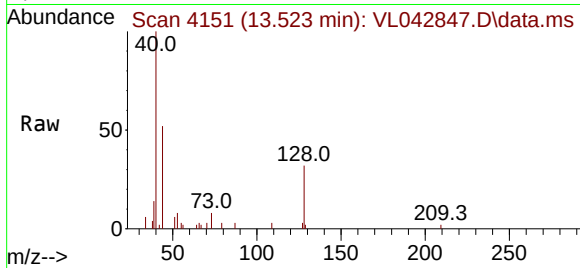




#79
Naphthalene
Concen: 0.021 ppbv
RT: 13.523 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

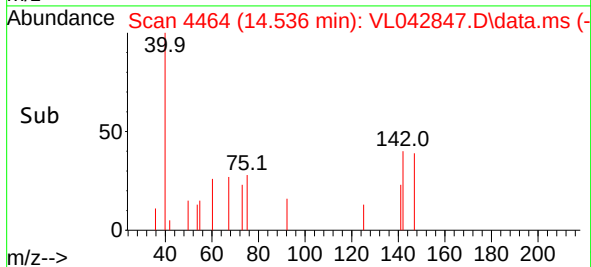
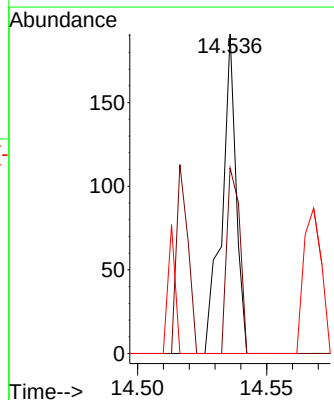
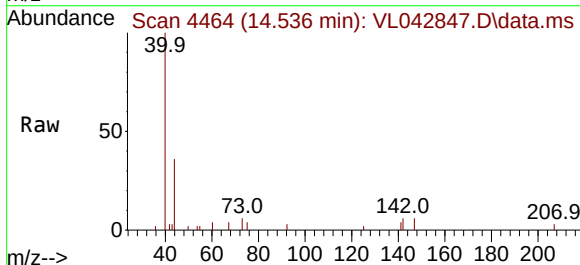
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

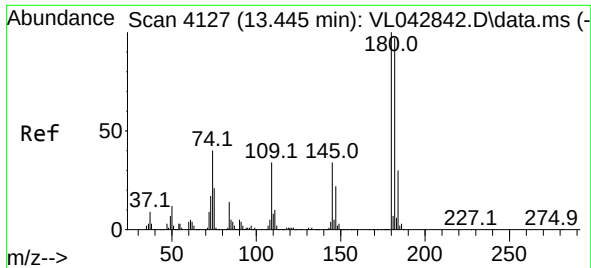
Tgt Ion:128 Resp: 998
Ion Ratio Lower Upper
128 100
127 9.1 10.6 16.0#
129 5.4 8.9 13.3#



#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#

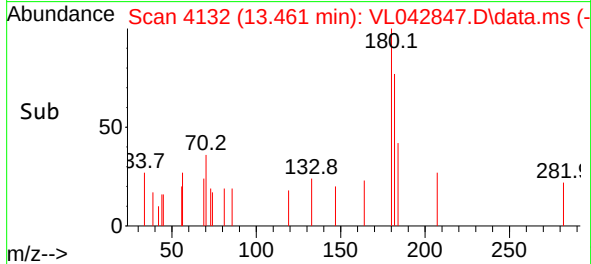
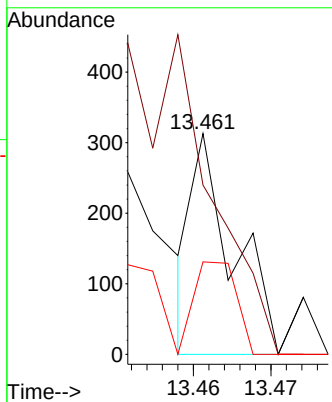
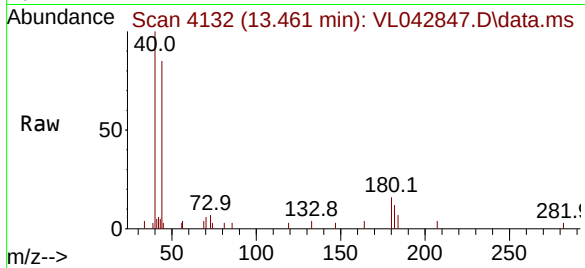




#81
 1,2,4-Trichlorobenzene
 Concen: 0.005 ppbv
 RT: 13.461 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion	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

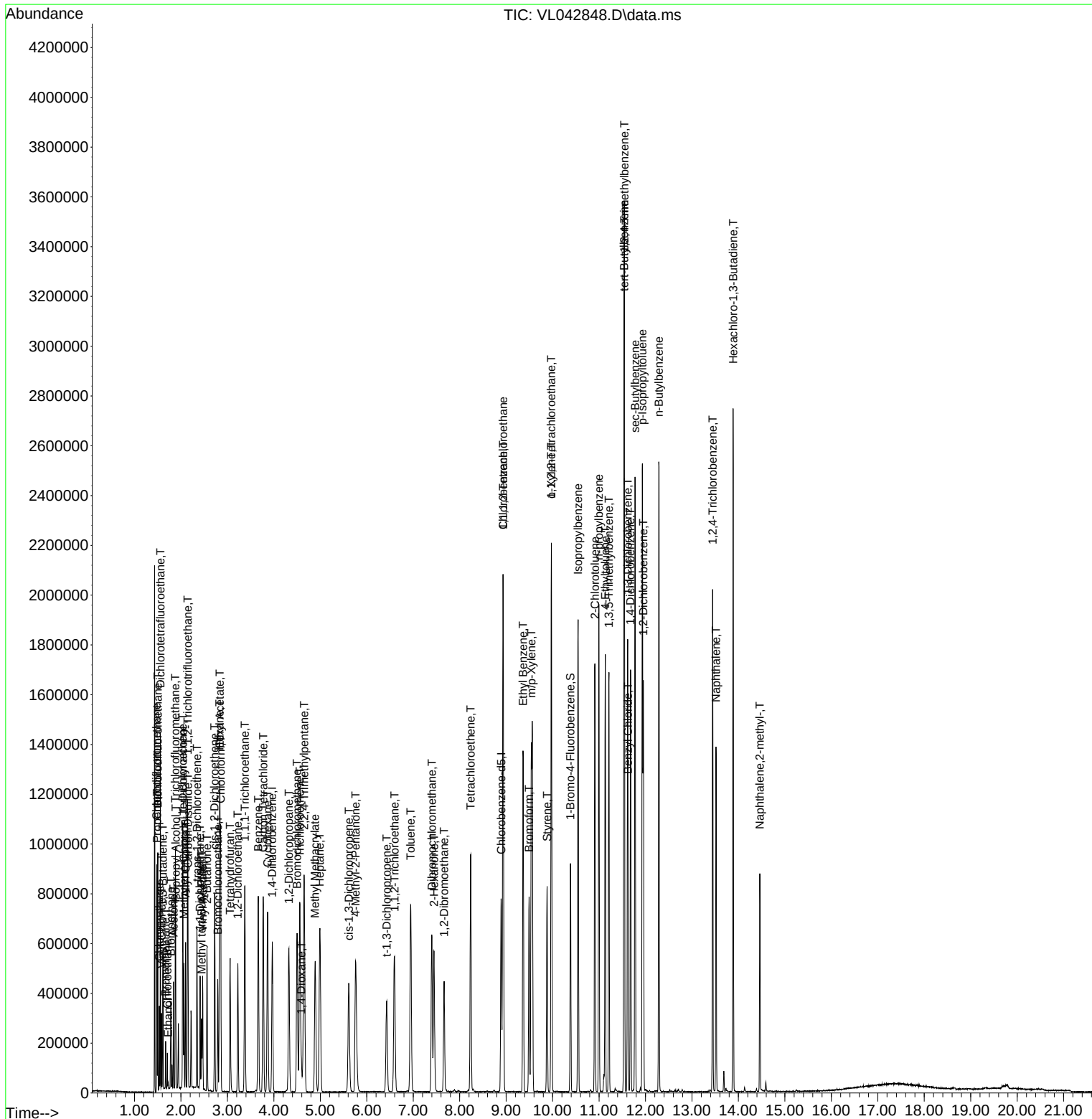
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

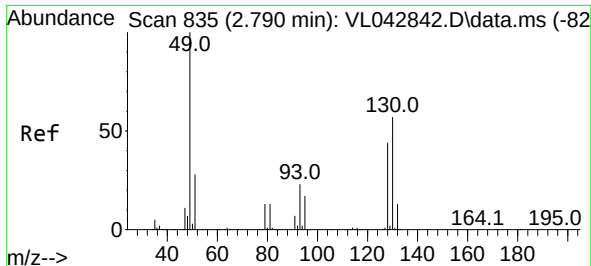
Quant Time: Aug 14 01:51:12 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	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

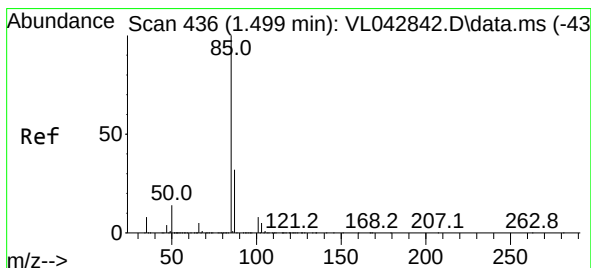
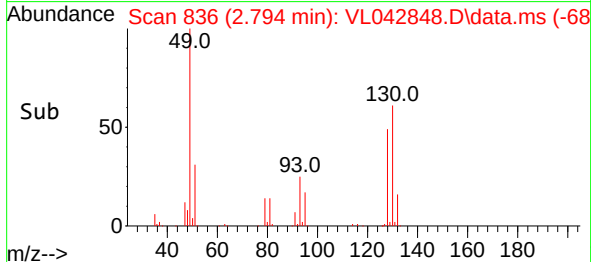
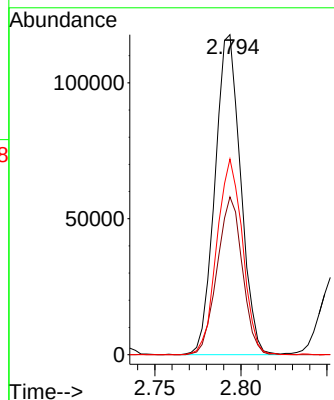
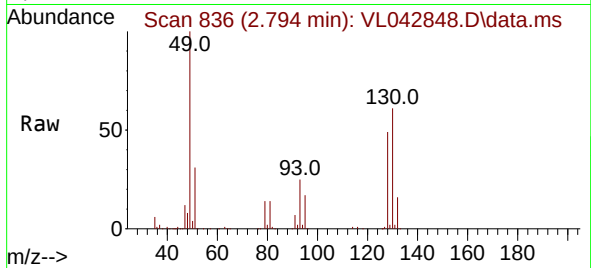




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 835
 Delta R.T. 0.004 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

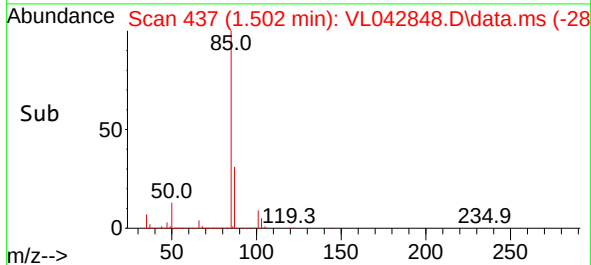
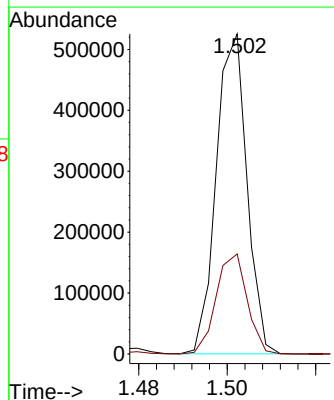
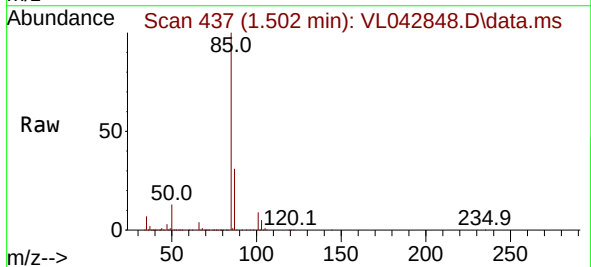
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

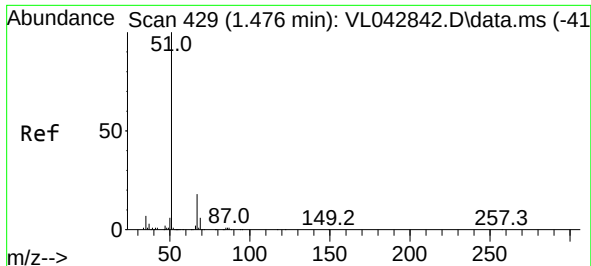
Tgt Ion: 49 Resp: 122073
 Ion Ratio Lower Upper
 49 100
 128 48.4 23.7 71.1
 130 61.2 30.6 91.6



#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

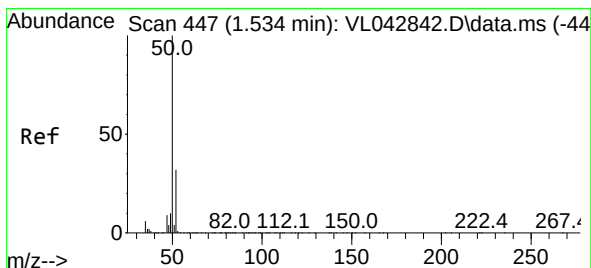
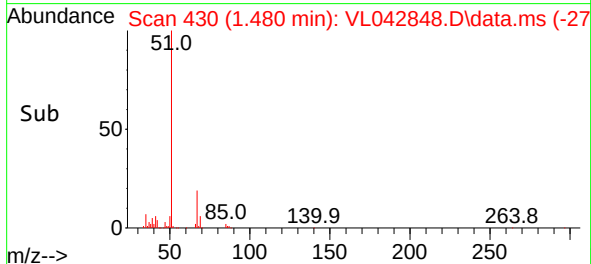
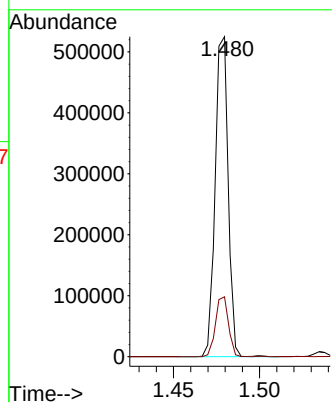
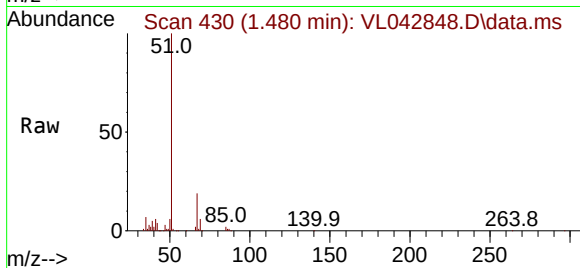




#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

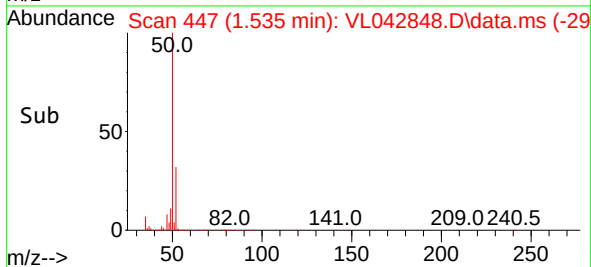
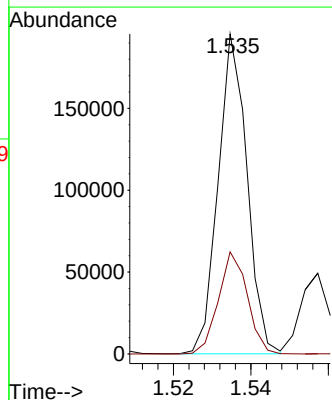
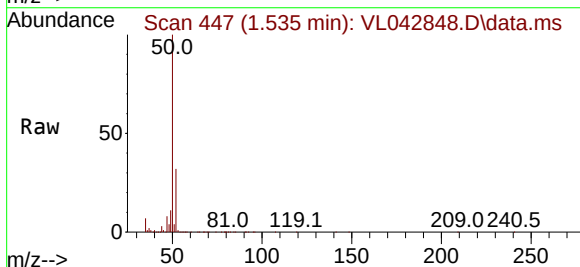
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

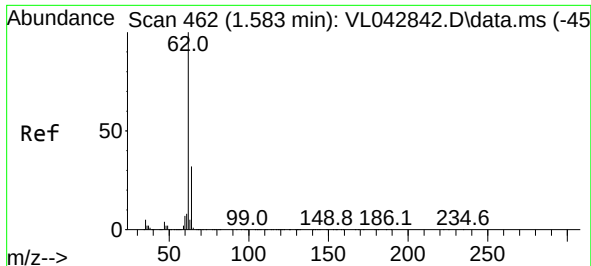
Tgt Ion: 51 Resp: 275350
Ion Ratio Lower Upper
51 100
67 18.9 14.9 22.3



#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

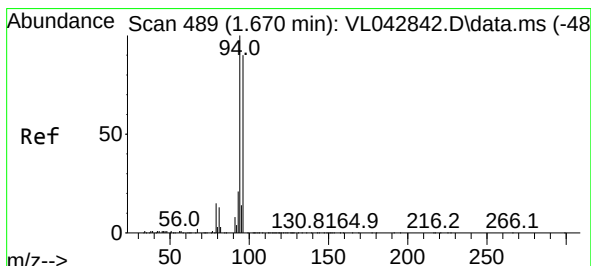
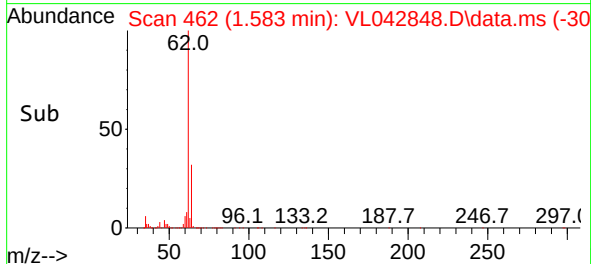
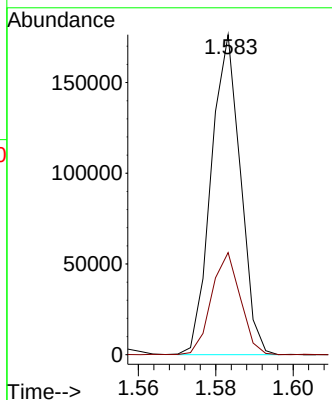
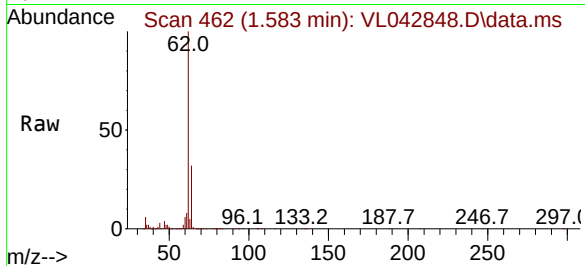




#5
 Vinyl Chloride
 Concen: 13.053 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

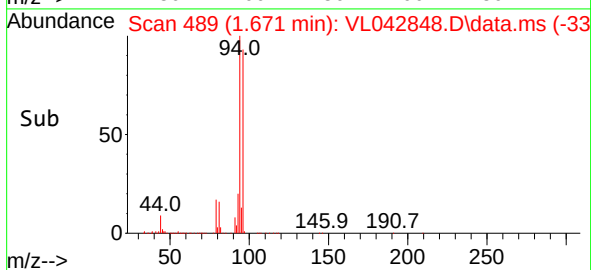
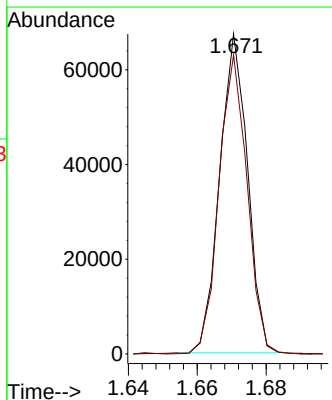
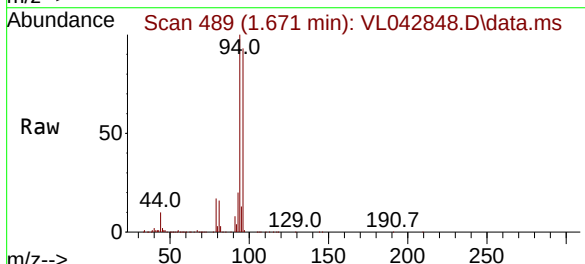
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

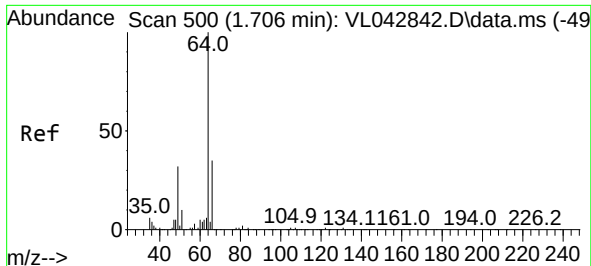
Tgt Ion: 62 Resp: 92812
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2



#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

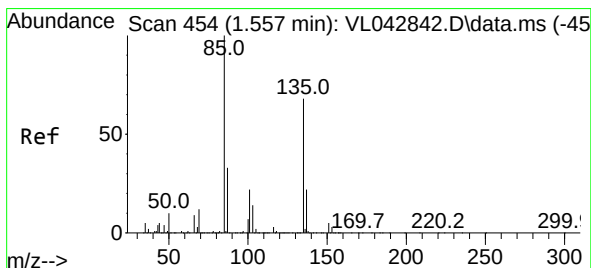
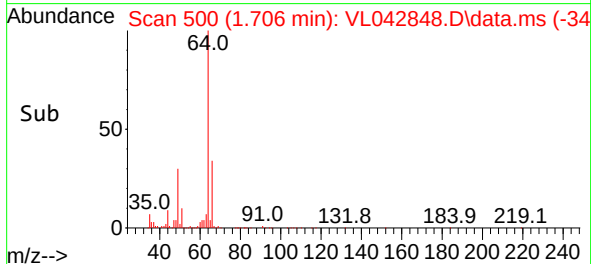
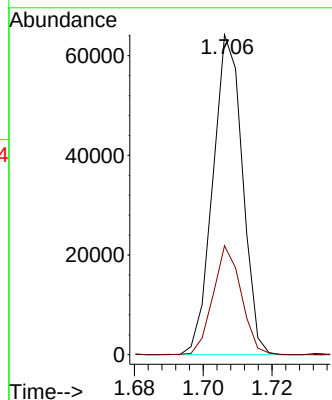
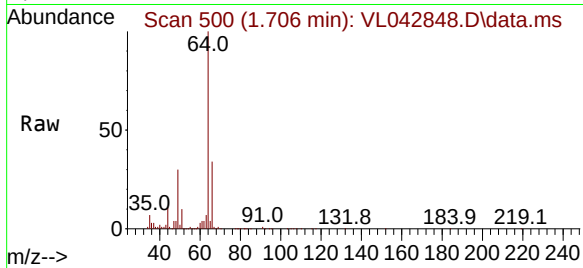




#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

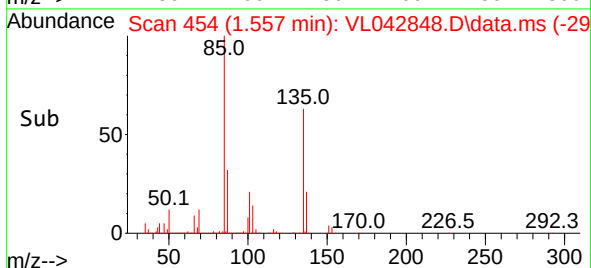
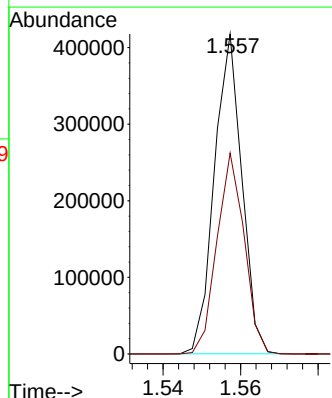
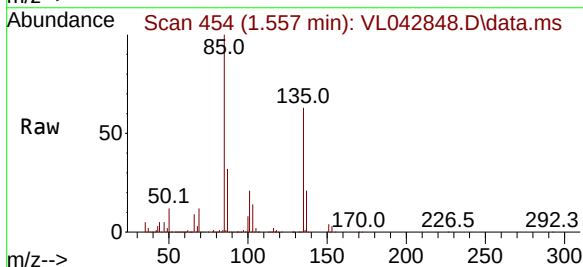
Instrument :
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ClientSampleId :
VSTDIC015

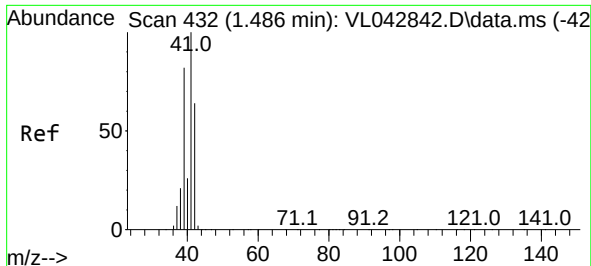
Tgt Ion: 64 Resp: 38398
Ion Ratio Lower Upper
64 100
66 34.1 28.6 42.8



#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 :

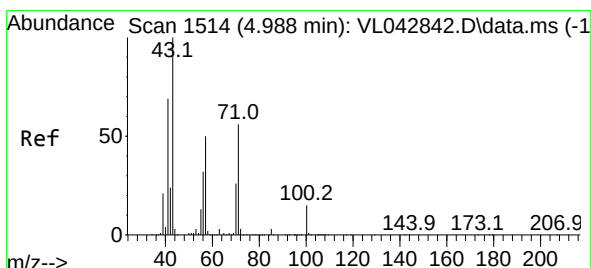
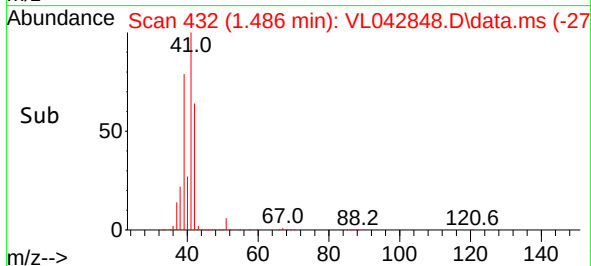
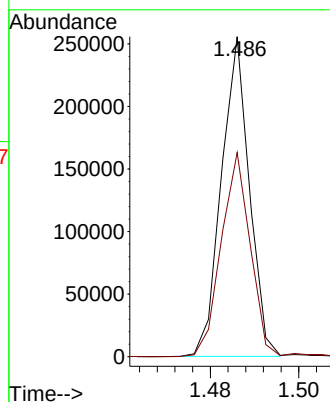
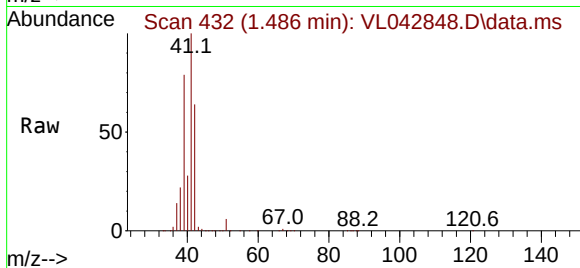
VSTDIC015

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

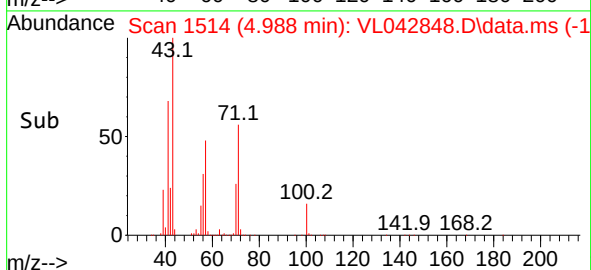
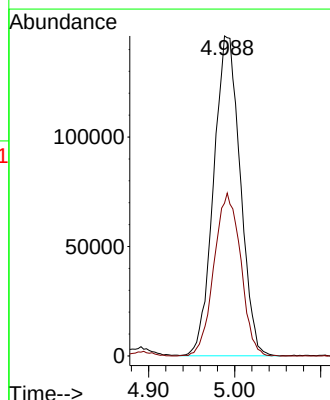
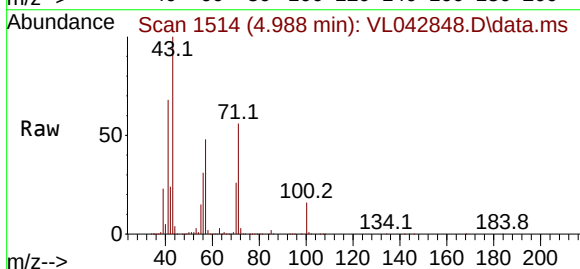
Acq: 13 Aug 2025 12:06

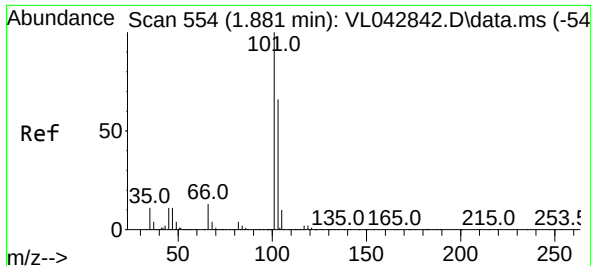
Tgt Ion: 43 Resp: 313734

Ion Ratio Lower Upper

43 100

57 51.0 41.4 62.0

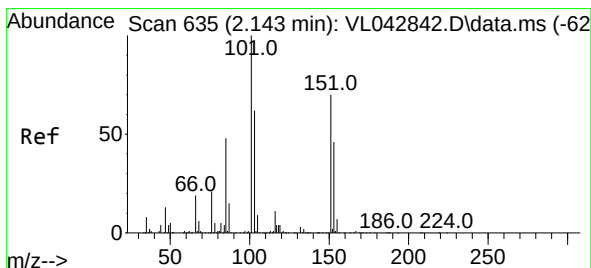
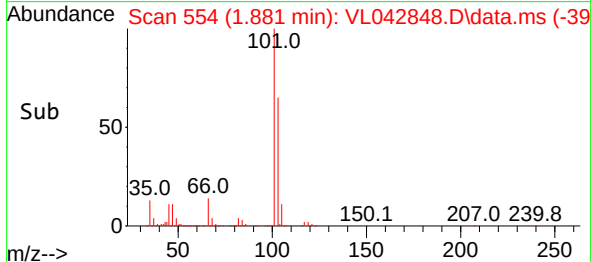
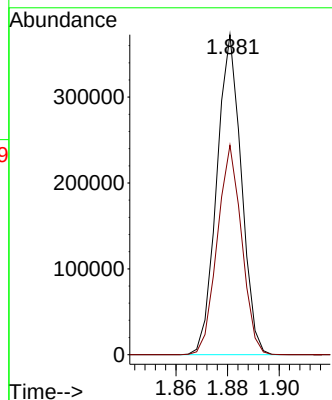
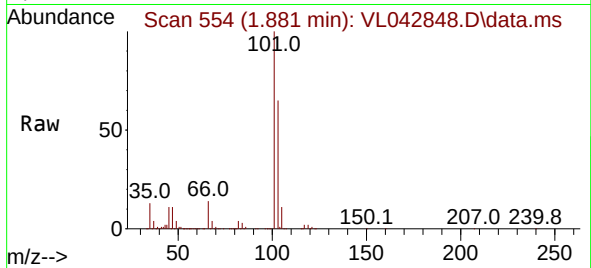




#11
 Trichlorofluoromethane
 Concen: 13.957 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

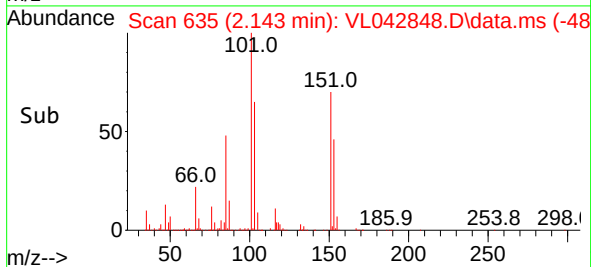
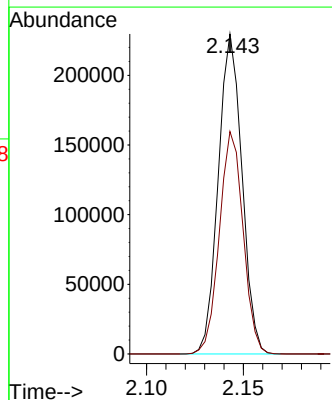
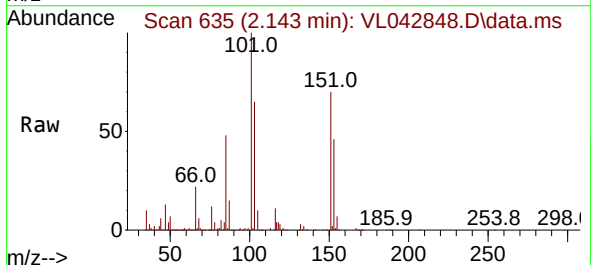
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

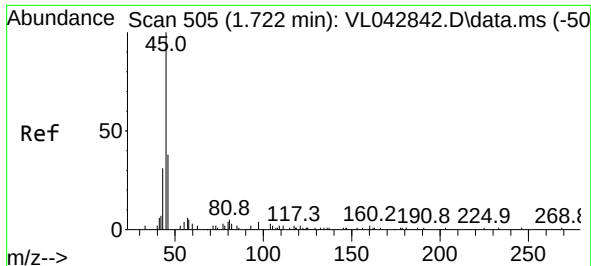
Tgt Ion:101 Resp: 246354
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.5 78.7



#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

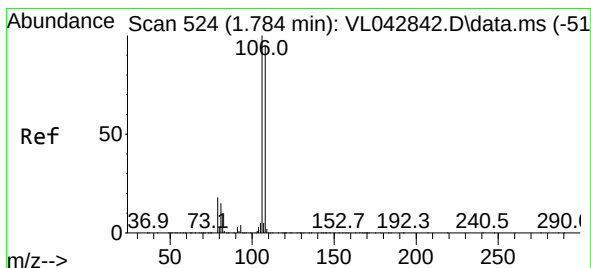
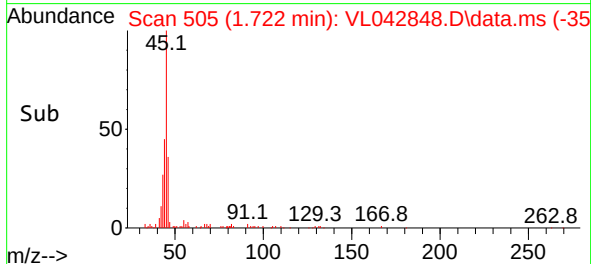
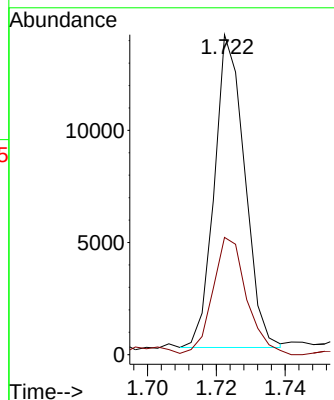
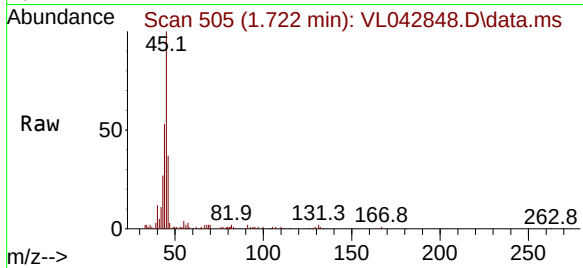




#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

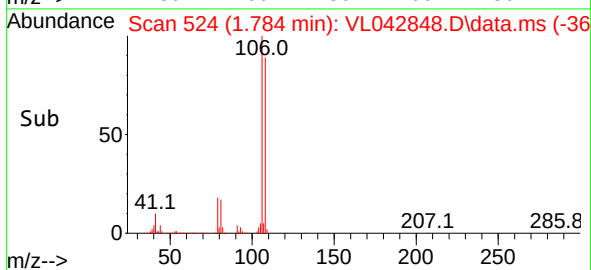
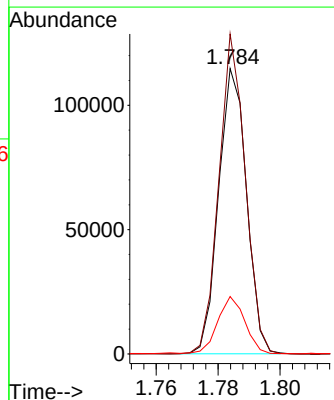
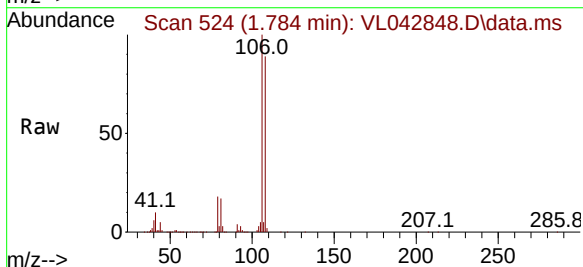
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

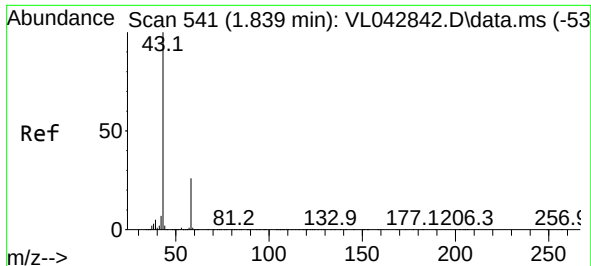
Tgt Ion: 45 Resp: 8534
Ion Ratio Lower Upper
45 100
46 42.3 17.5 69.9



#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

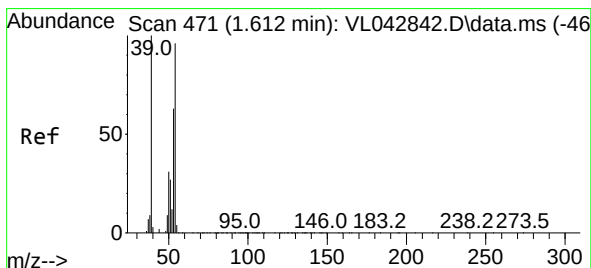
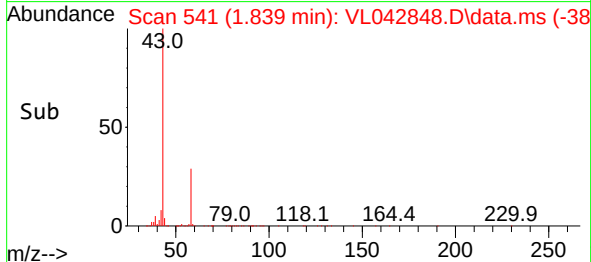
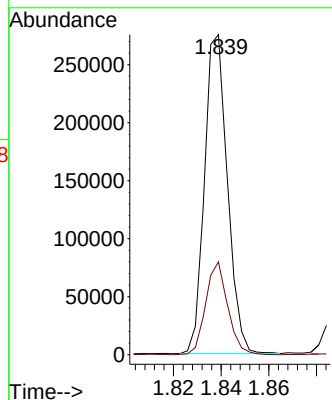
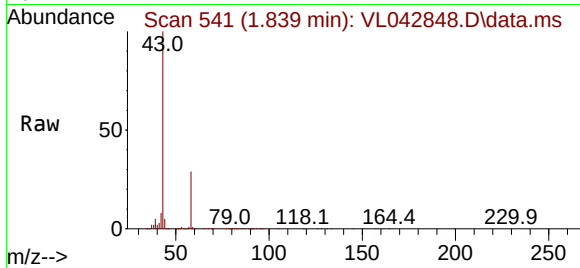




#15
 Acetone
 Concen: 11.402 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

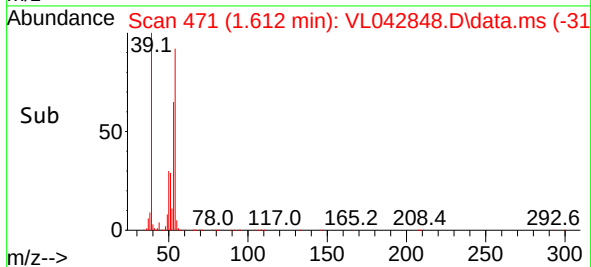
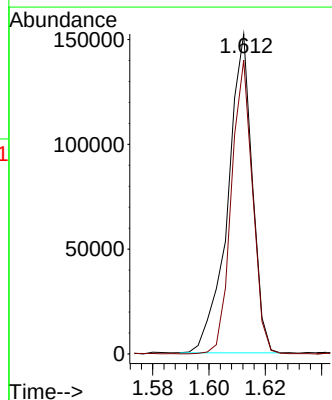
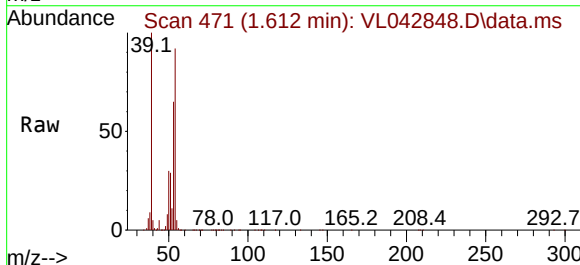
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

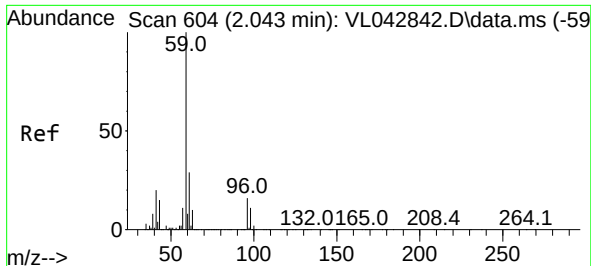
Tgt Ion: 43 Resp: 184116
 Ion Ratio Lower Upper
 43 100
 58 27.9 22.4 33.6



#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 :

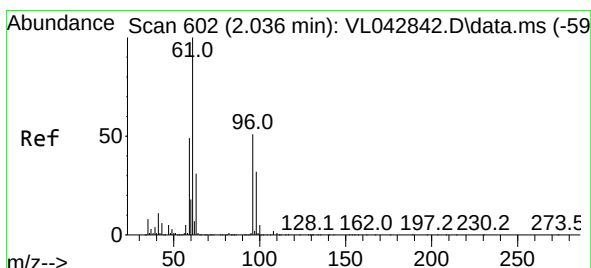
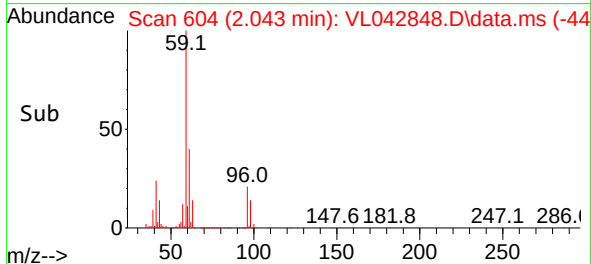
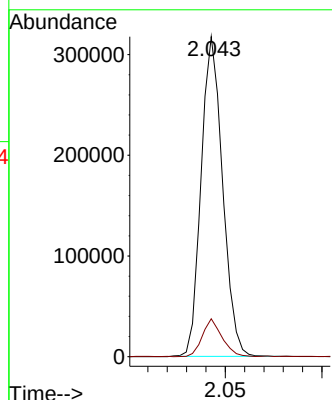
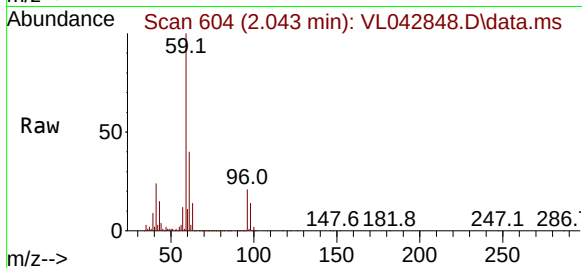
VSTDIC015

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

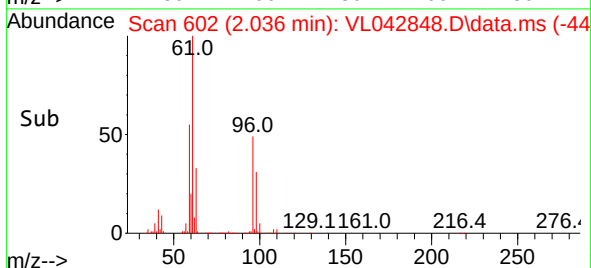
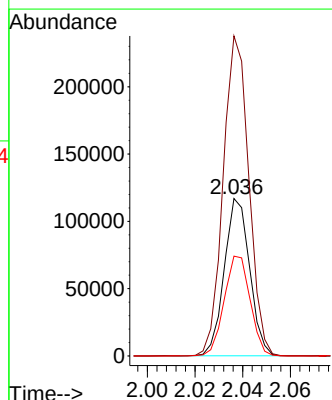
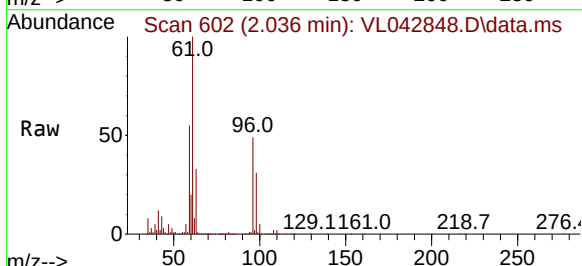
Tgt Ion: 96 Resp: 86349

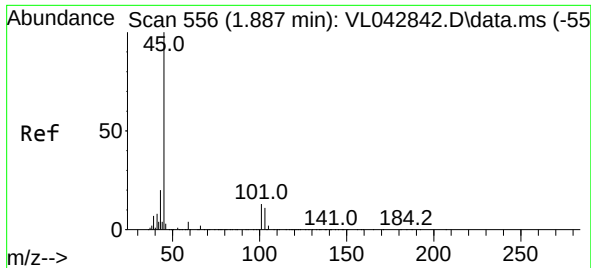
Ion Ratio Lower Upper

96 100

61 203.3 158.2 237.4

98 63.3 50.6 76.0

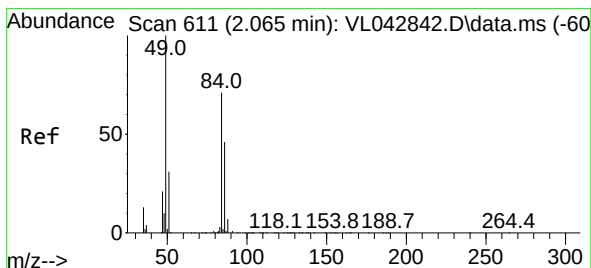
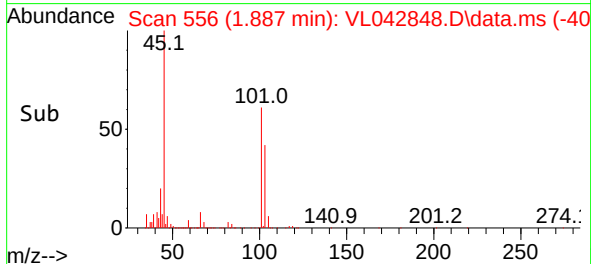
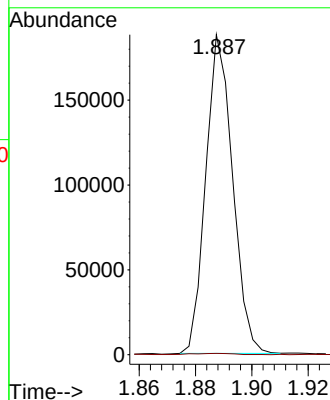
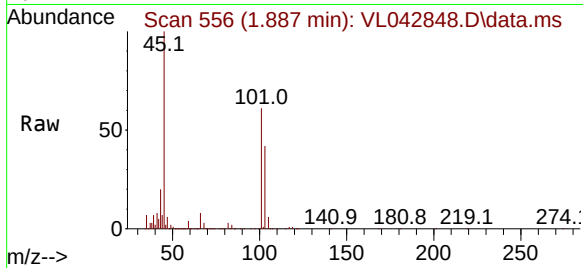




#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

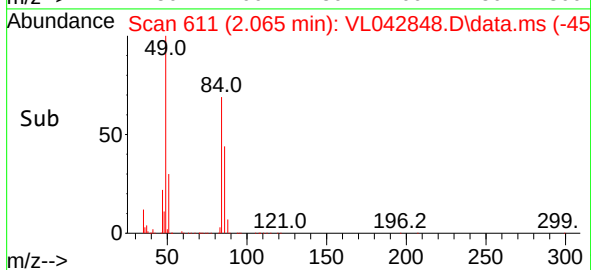
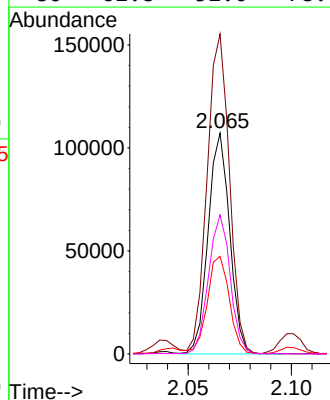
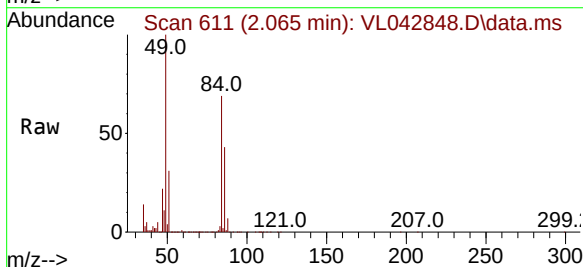
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

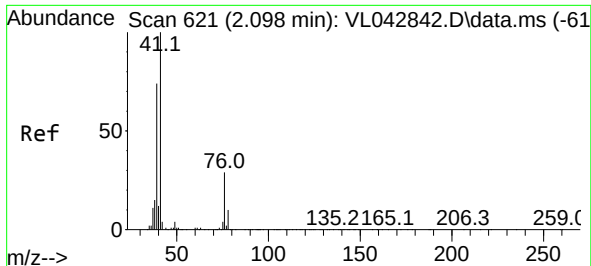
Tgt Ion: 45 Resp: 124270
Ion Ratio Lower Upper
45 100
58 41.3 32.7 49.1



#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

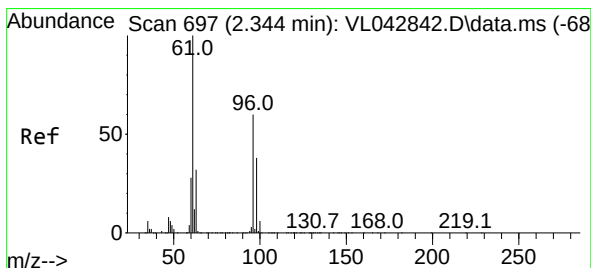
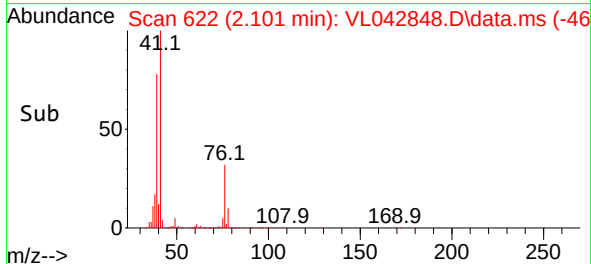
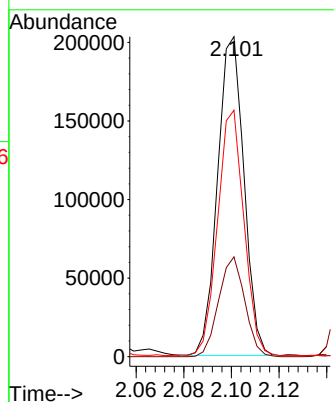
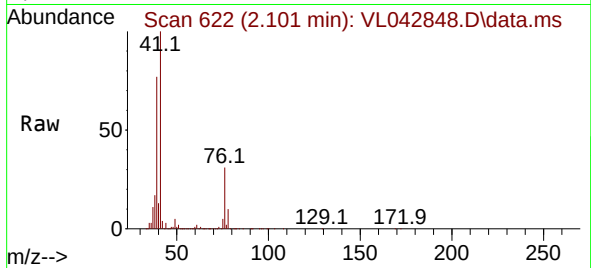




#21
 Allyl Chloride
 Concen: 13.703 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

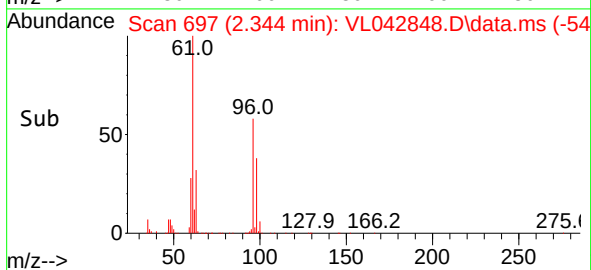
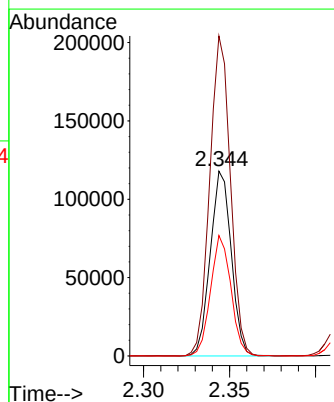
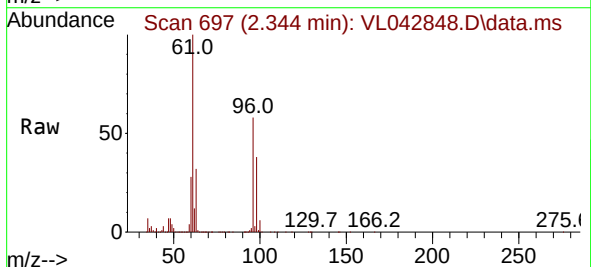
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

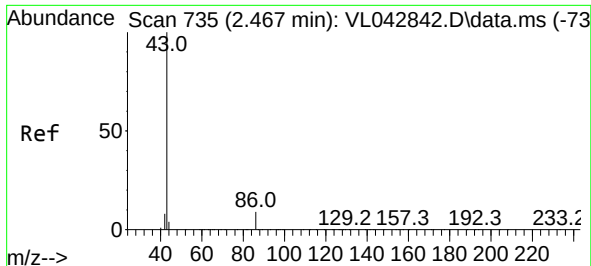
Tgt Ion: 41 Resp: 156318
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 76.9 57.8 86.6



#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



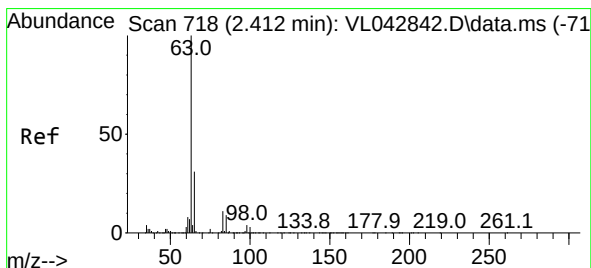
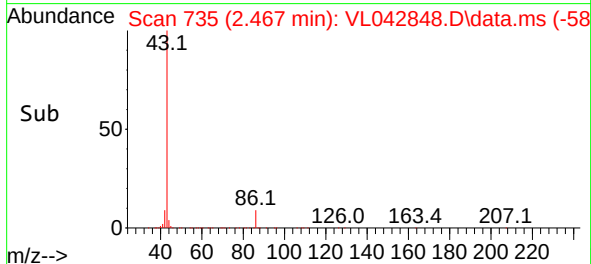
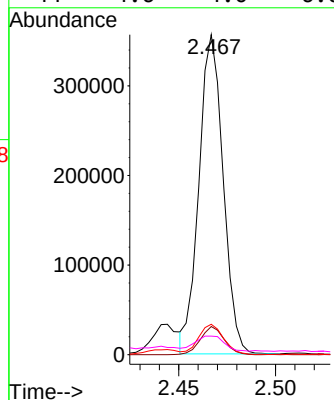
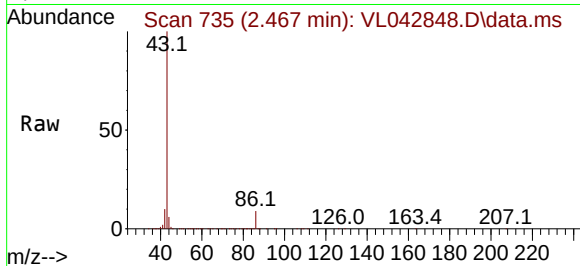


#23
 Vinyl Acetate
 Concen: 14.557 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 309236

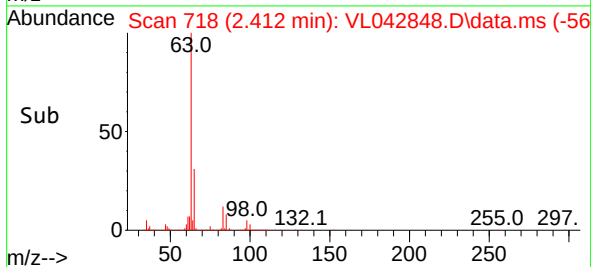
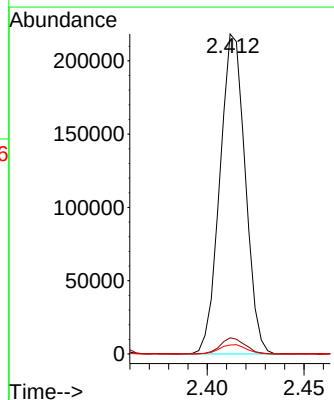
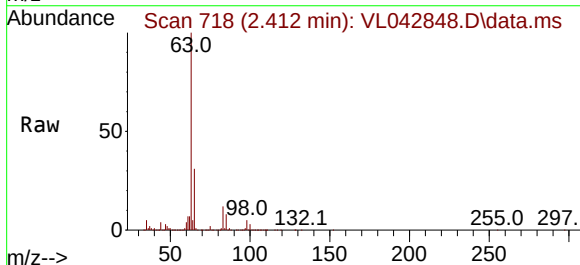
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.4	7.0	10.6
44	4.6	4.0	6.0

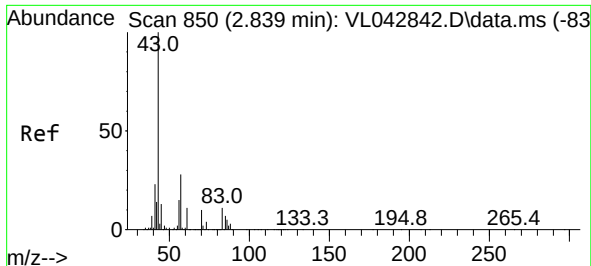


#24
 1,1-Dichloroethane
 Concen: 13.944 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

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

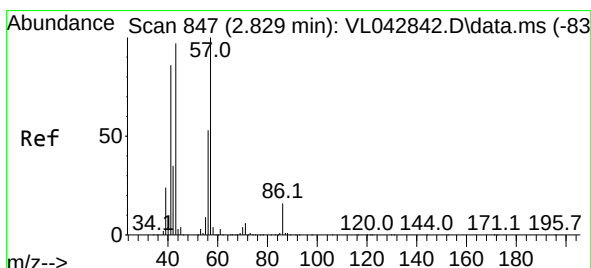
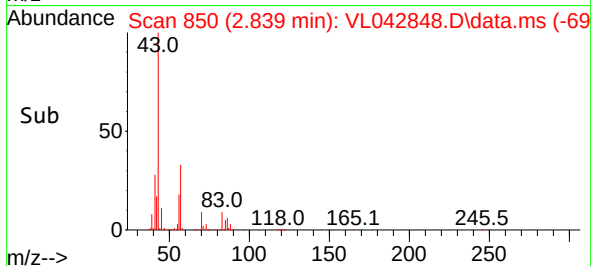
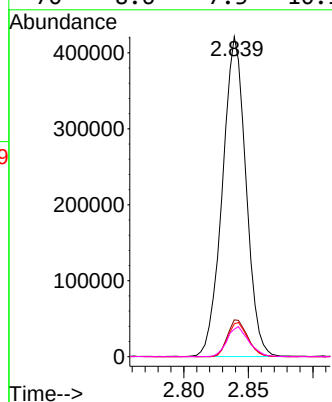
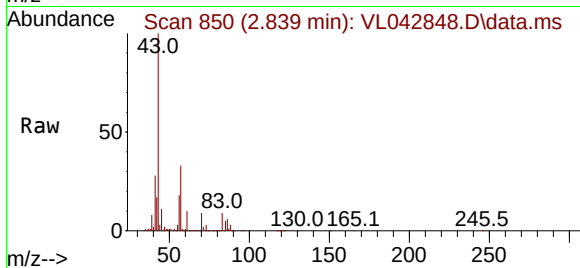
Ion Ratio Lower Upper

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

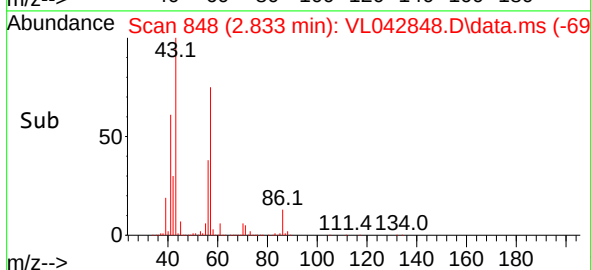
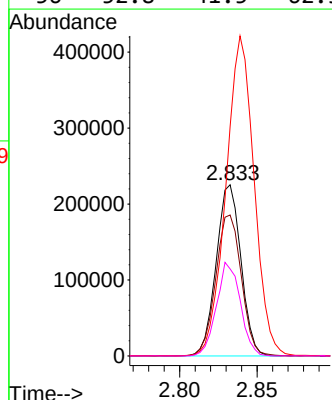
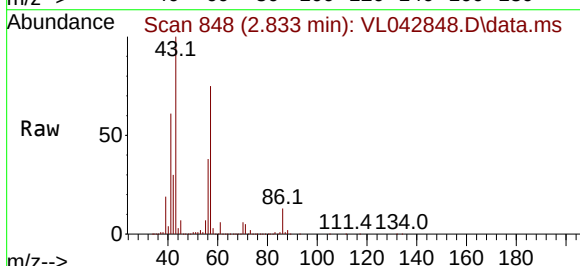
Ion Ratio Lower Upper

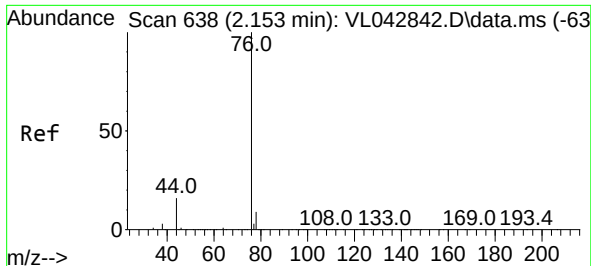
57 100

41 85.8 68.6 103.0

43 214.3 168.5 252.7

56 52.8 41.5 62.3

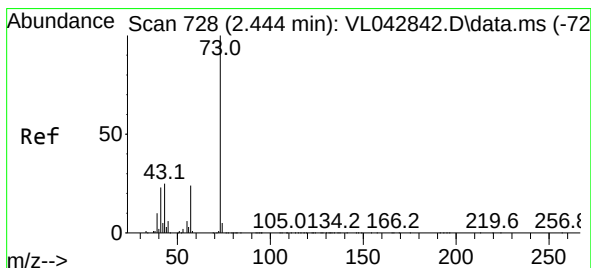
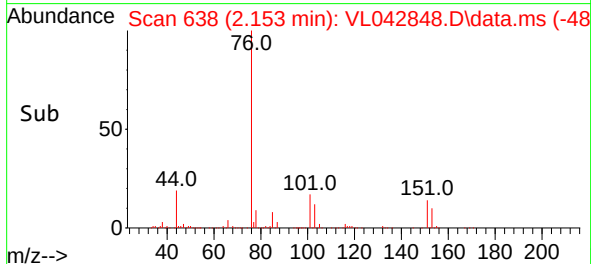
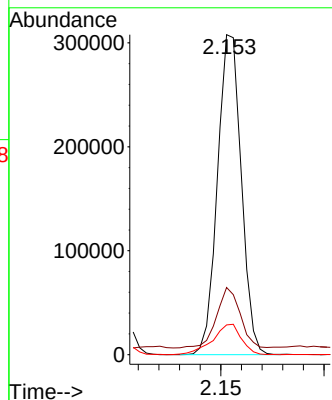
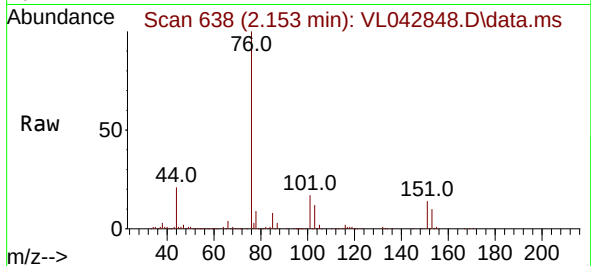




#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

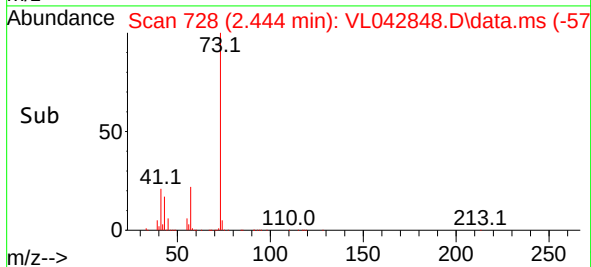
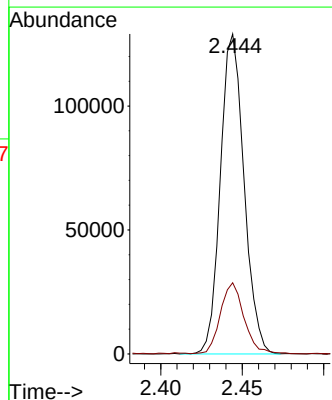
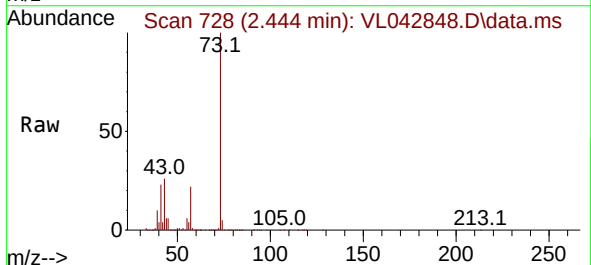
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

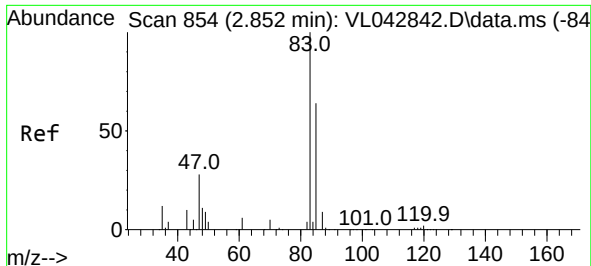
Tgt Ion: 76 Resp: 246868
Ion Ratio Lower Upper
76 100
44 19.7 15.9 23.9
78 11.4 9.5 14.3



#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# 81

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

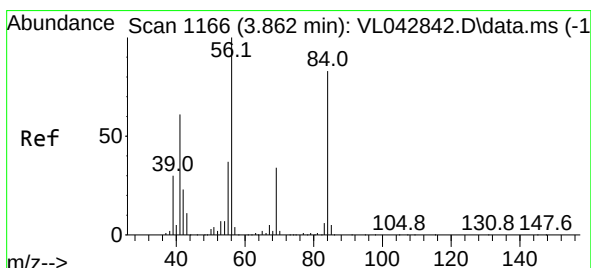
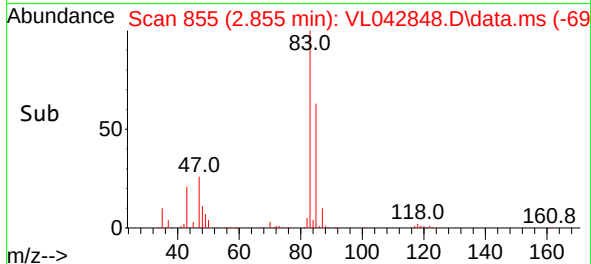
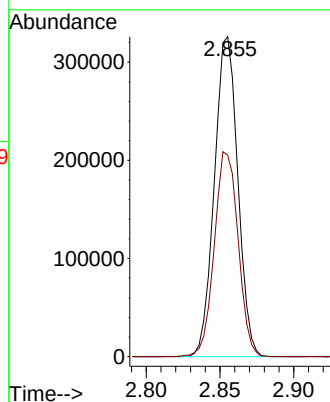
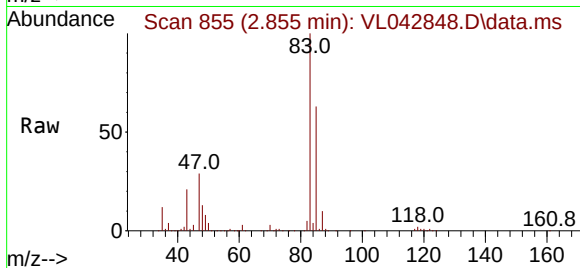
VSTDIC015

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

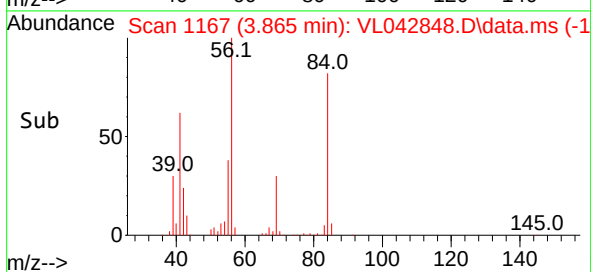
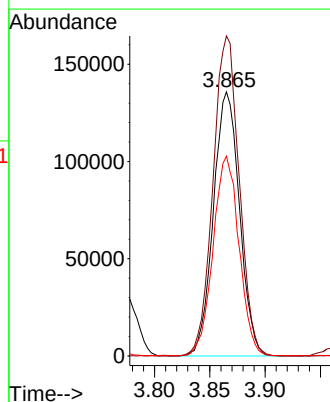
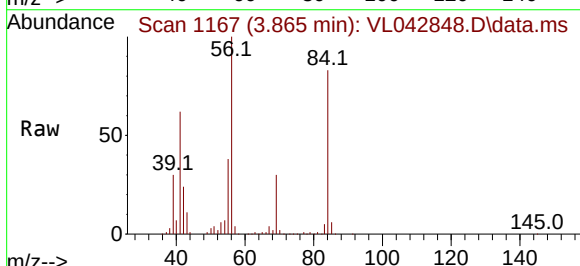
Tgt Ion: 84 Resp: 222820

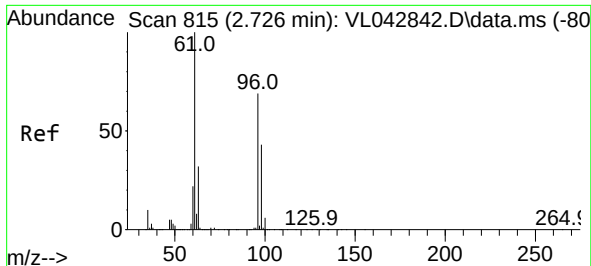
Ion Ratio Lower Upper

84 100

56 121.5 98.8 148.2

41 75.1 61.3 91.9

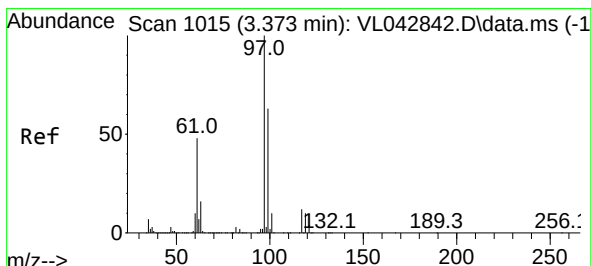
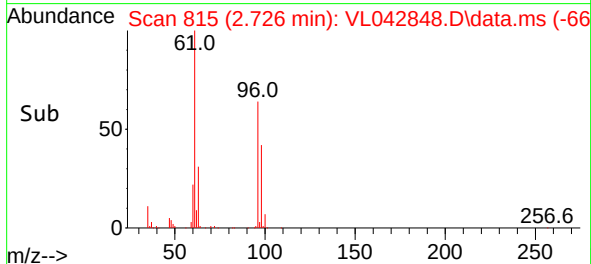
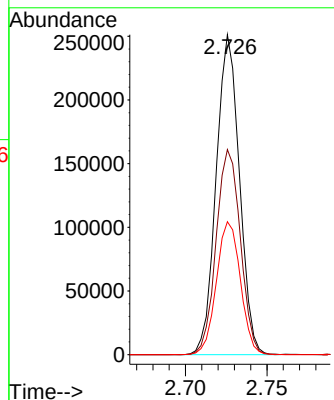
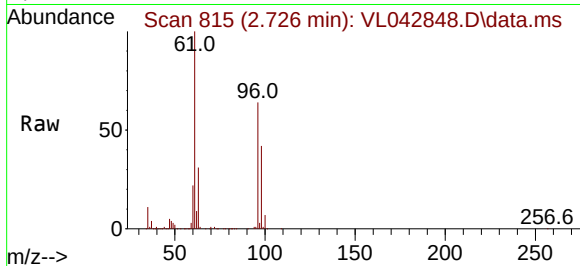




#31
 cis-1,2-Dichloroethene
 Concen: 13.821 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

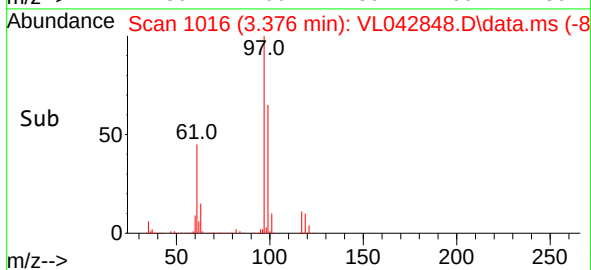
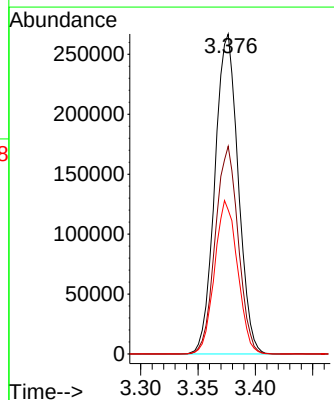
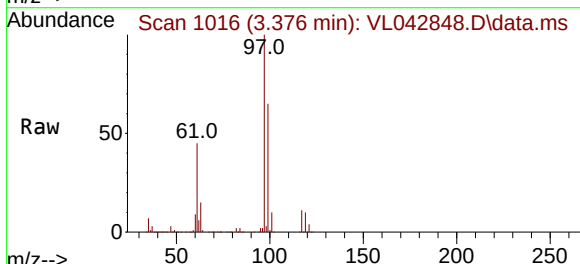
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

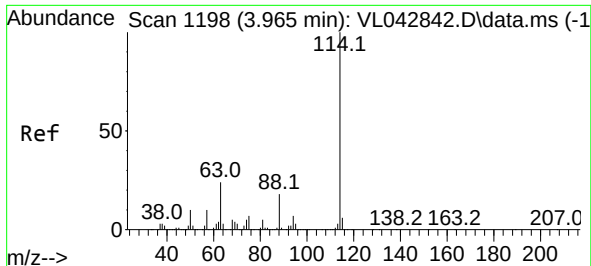
Tgt Ion: 61 Resp: 249376
 Ion Ratio Lower Upper
 61 100
 96 64.1 55.0 82.6
 98 41.6 34.3 51.5



#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_1

ClientSampleId :

VSTDIC015

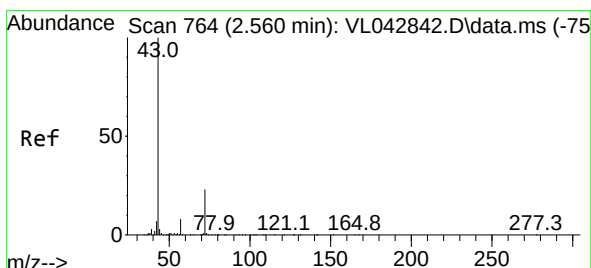
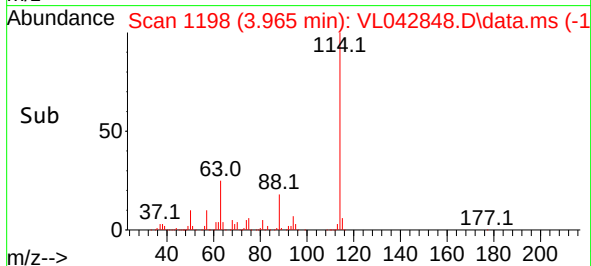
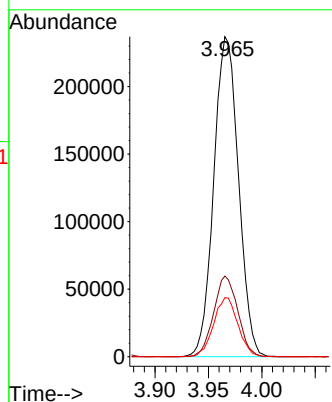
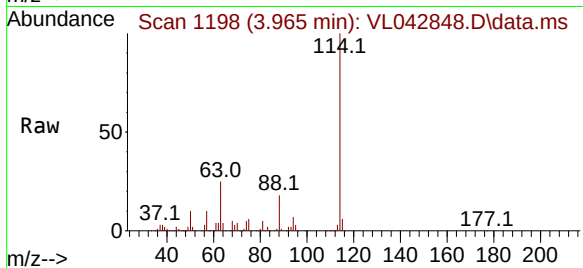
Tgt Ion:114 Resp: 380877

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

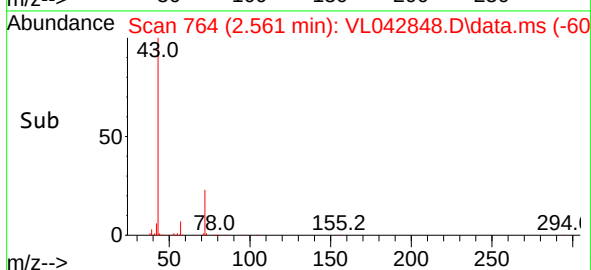
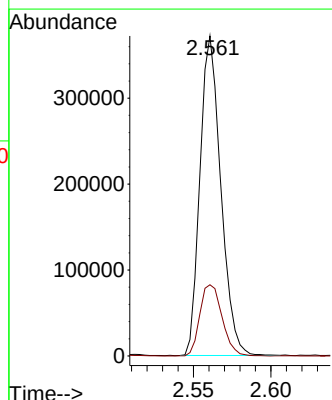
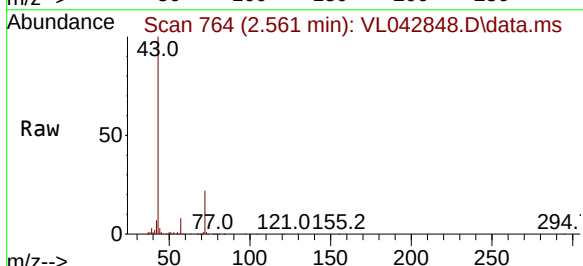
Acq: 13 Aug 2025 12:06

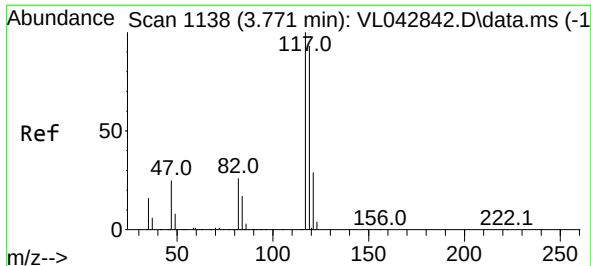
Tgt Ion: 43 Resp: 348815

Ion Ratio Lower Upper

43 100

72 23.8 18.6 28.0

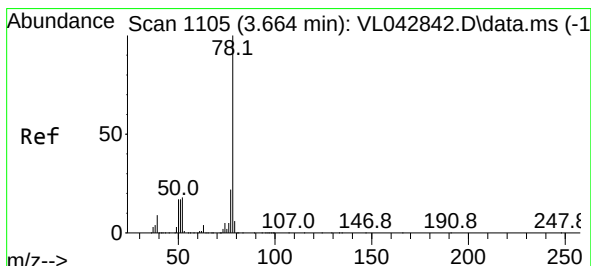
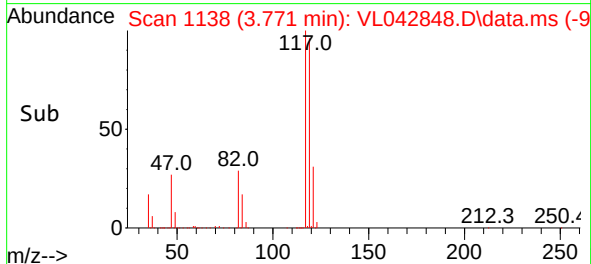
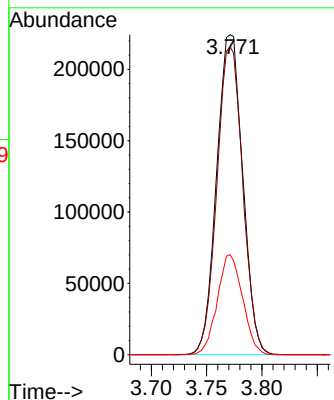
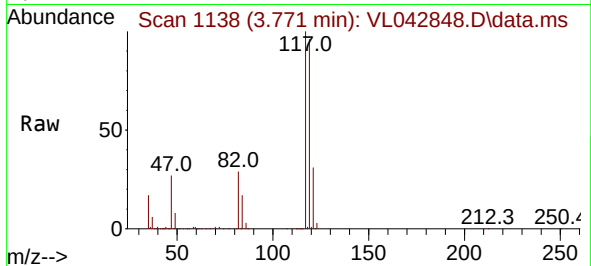




#35
Carbon Tetrachloride
Concen: 13.990 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

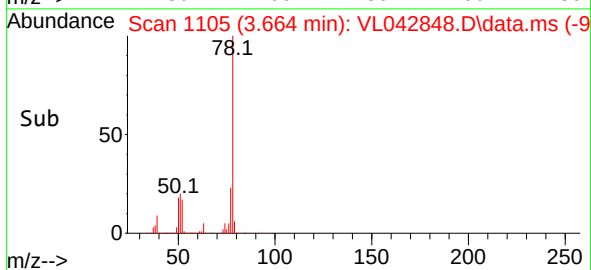
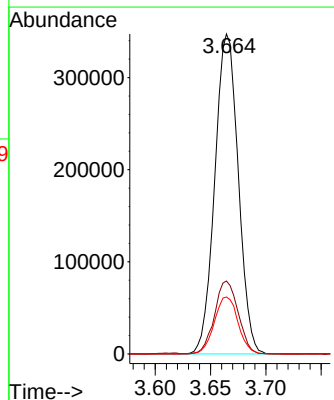
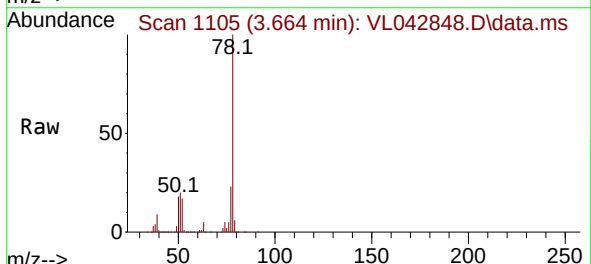
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

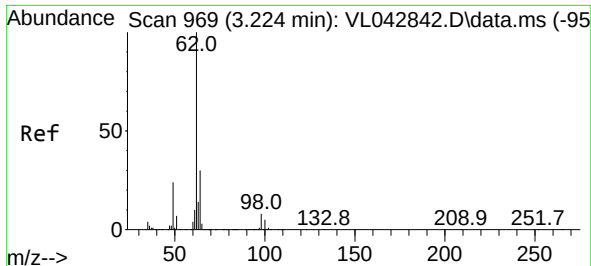
Tgt Ion:117 Resp: 367354
Ion Ratio Lower Upper
117 100
119 96.3 74.7 112.1
121 31.2 23.2 34.8



#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 :

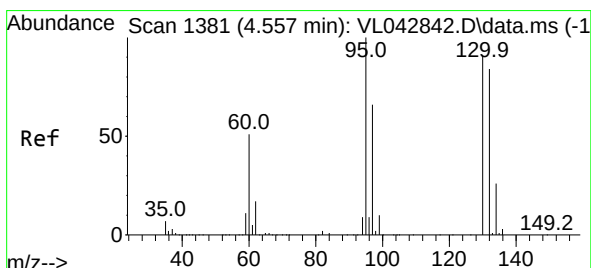
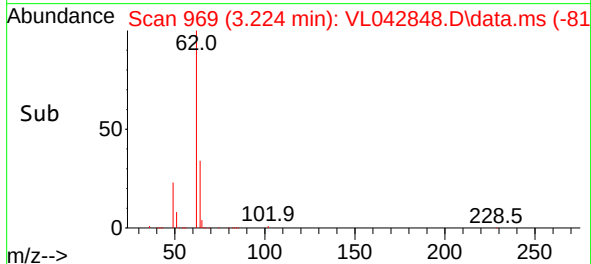
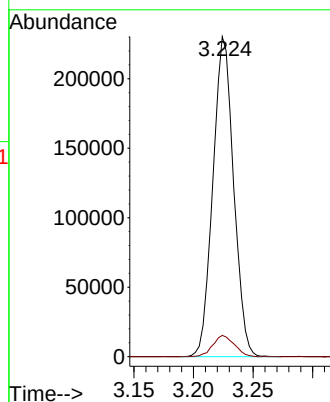
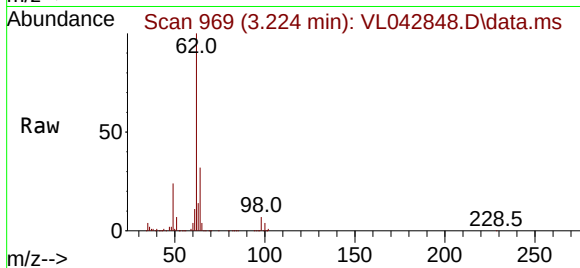
VSTDIC015

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

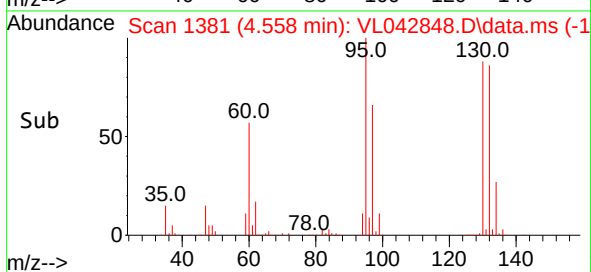
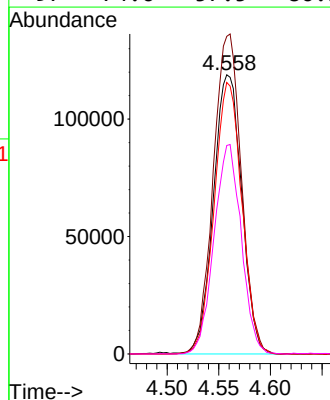
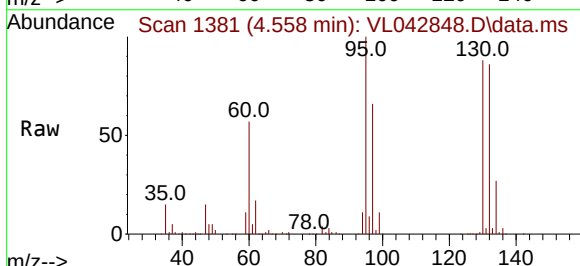
Ion Ratio Lower Upper

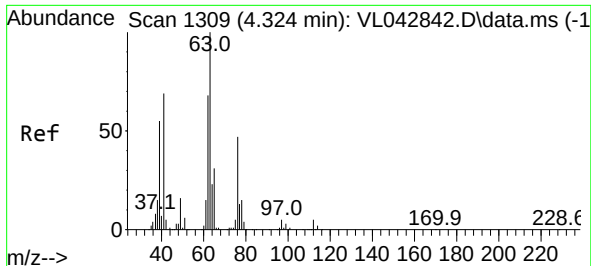
130 100

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

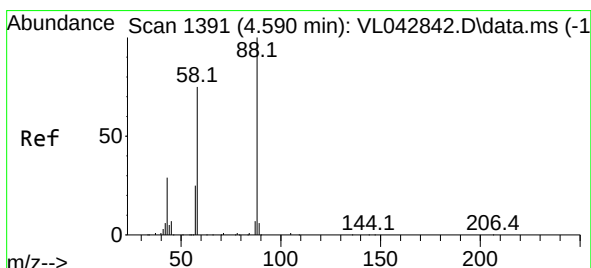
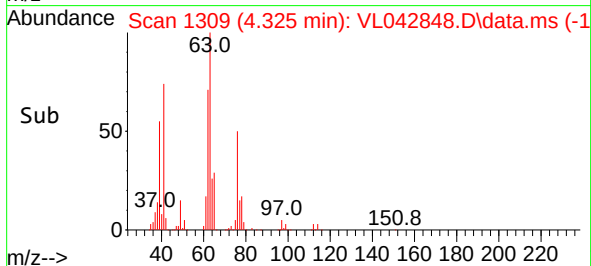
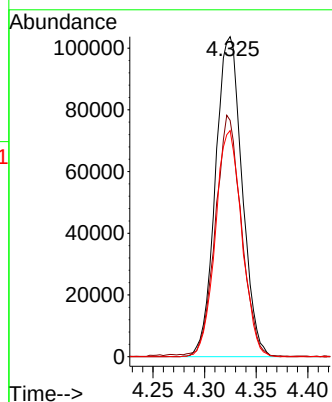
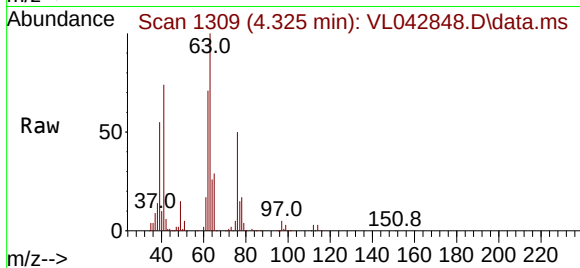
Tgt Ion: 63 Resp: 186277

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

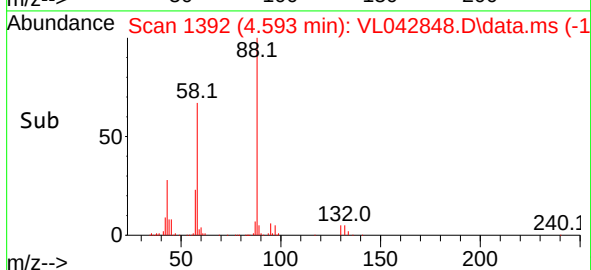
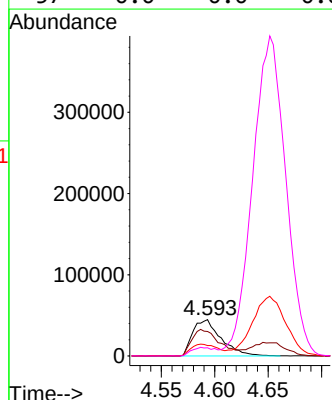
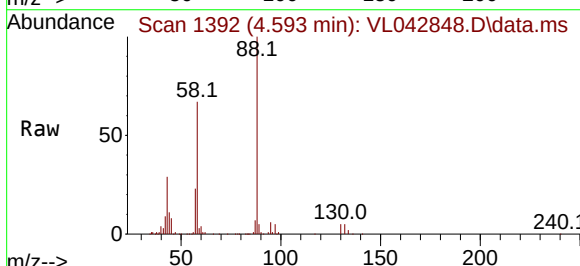
Ion Ratio Lower Upper

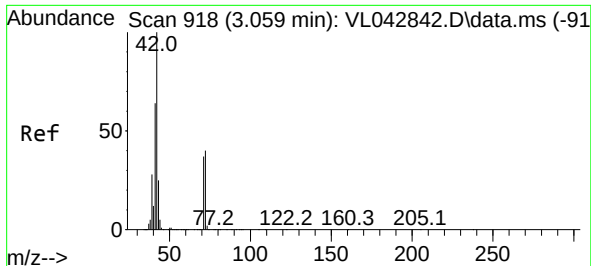
88 100

58 73.5 53.8 80.6

43 33.9 22.8 34.2

57 0.0 0.0 0.0

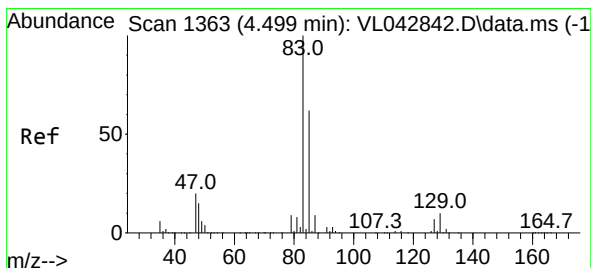
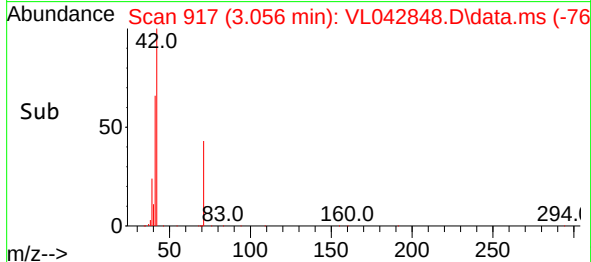
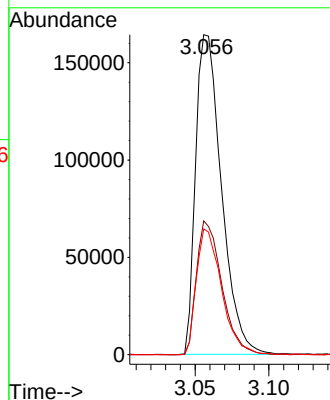
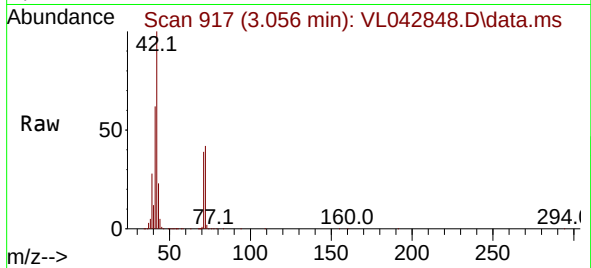




#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 918
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

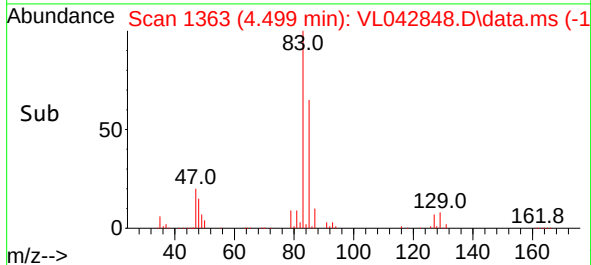
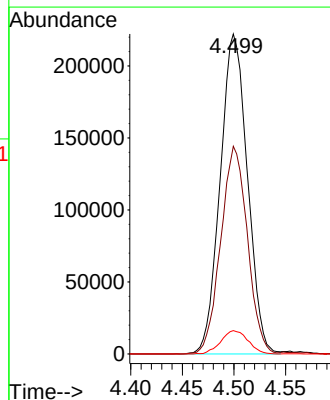
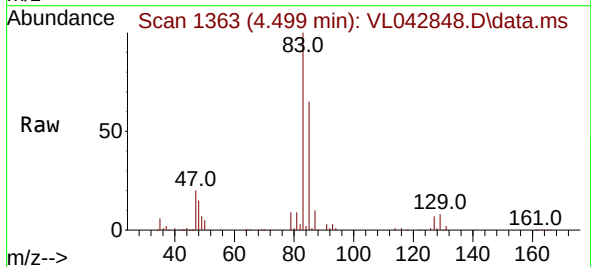
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

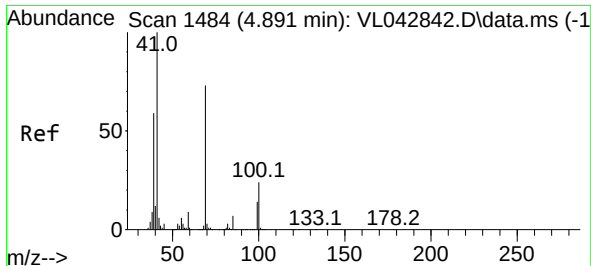
Tgt Ion: 42 Resp: 200751
Ion Ratio Lower Upper
42 100
72 41.0 32.6 48.8
71 38.4 30.0 45.0



#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

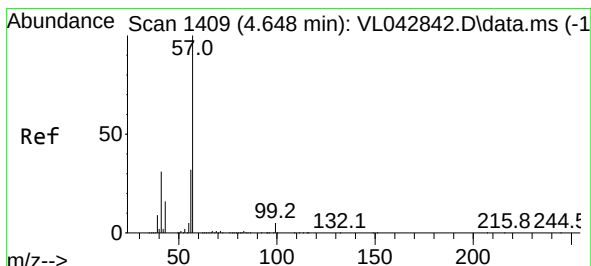
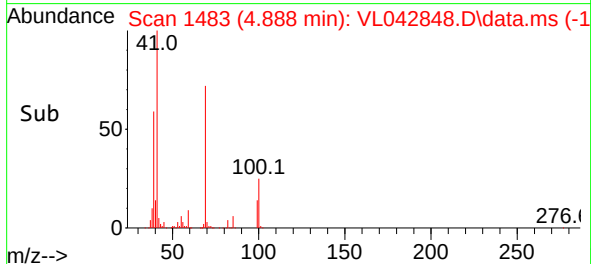
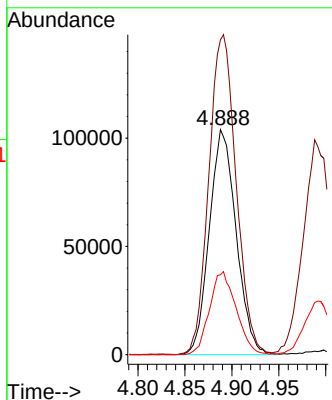
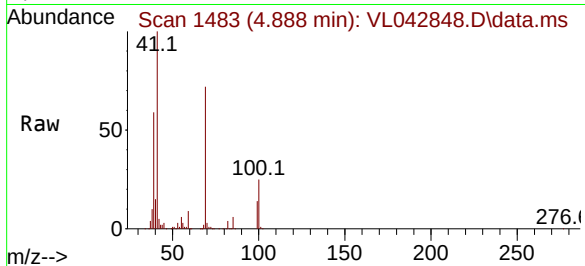




#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 1410
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

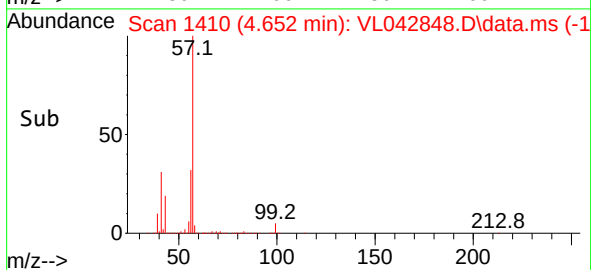
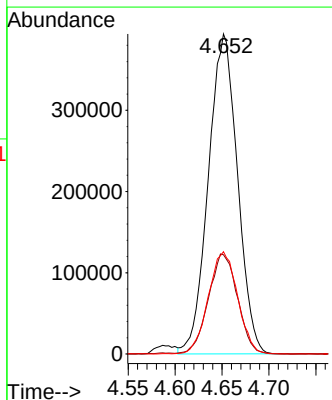
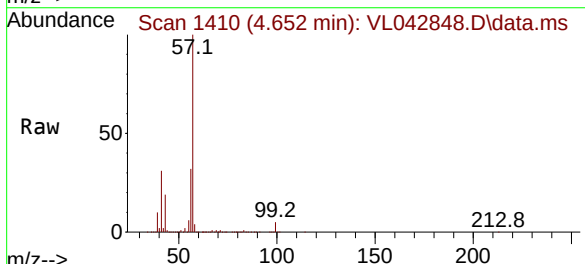
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

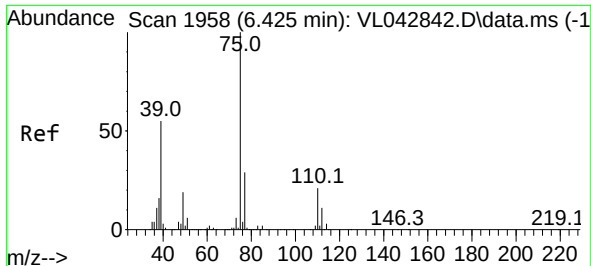
Tgt Ion: 69 Resp: 206590
Ion Ratio Lower Upper
69 100
41 144.8 114.6 172.0
100 36.8 30.2 45.4



#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

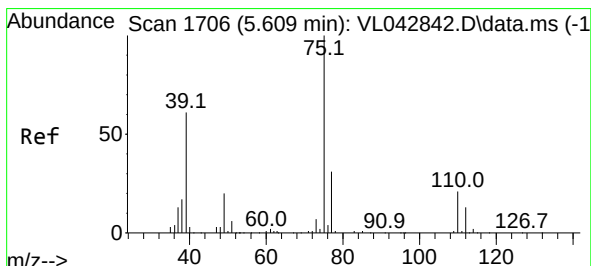
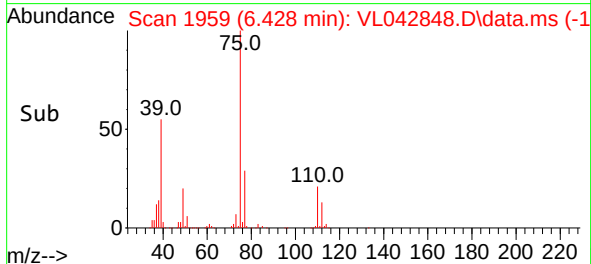
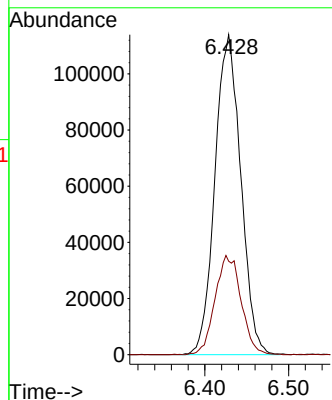
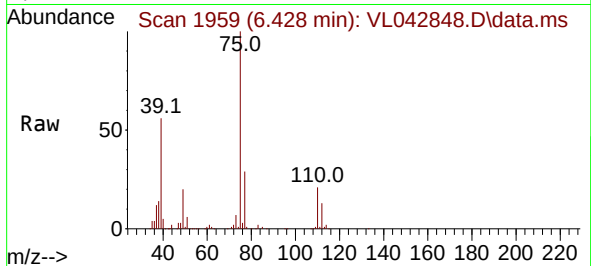




#45
 t-1,3-Dichloropropene
 Concen: 14.387 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

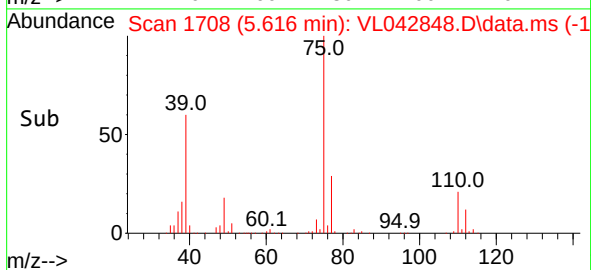
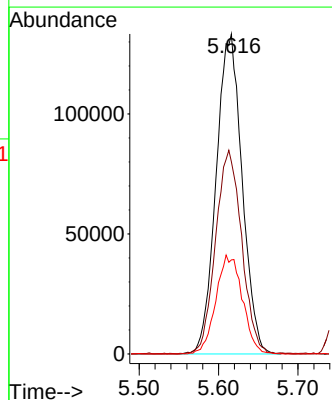
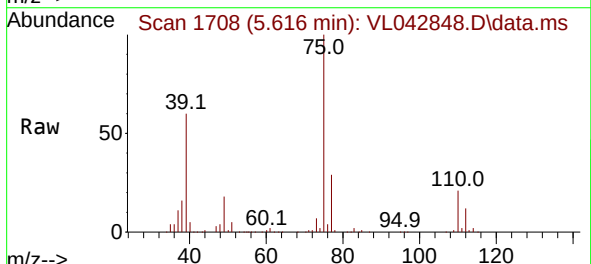
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

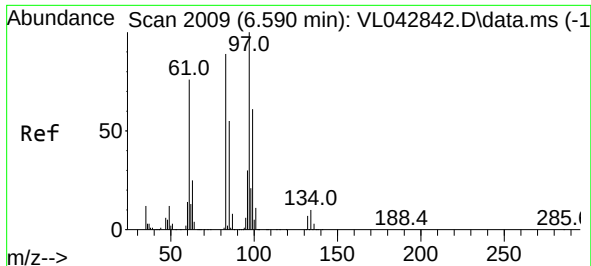
Tgt Ion: 75 Resp: 244117
 Ion Ratio Lower Upper
 75 100
 77 29.2 23.8 35.6



#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



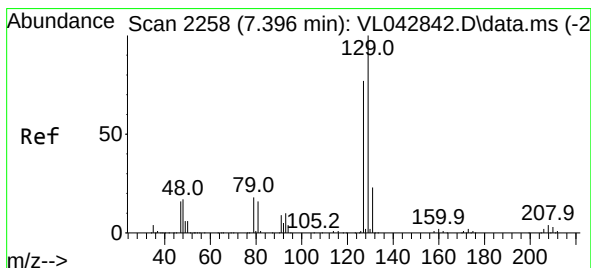
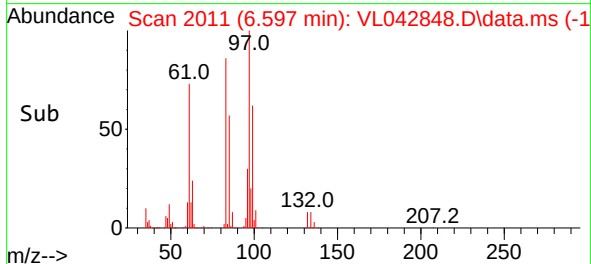
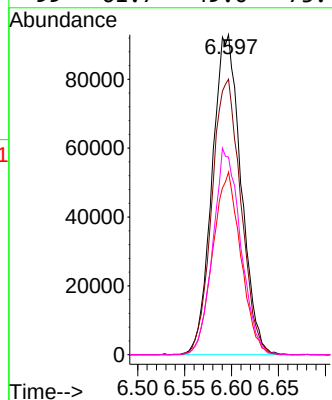
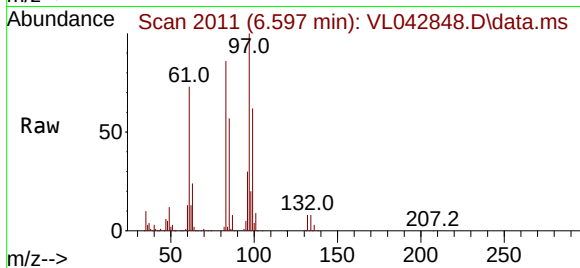


#47
1,1,2-Trichloroethane
Concen: 14.118 ppbv
RT: 6.597 min Scan# 2009
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 97 Resp: 199067

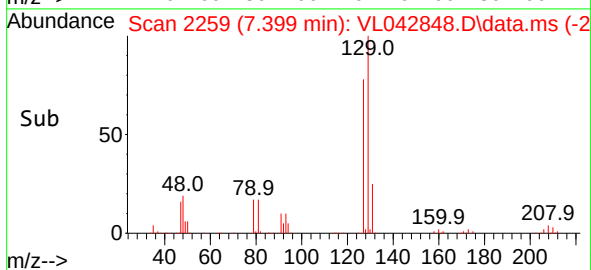
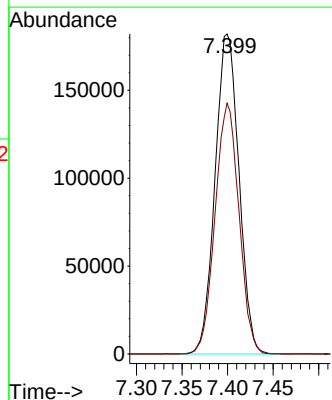
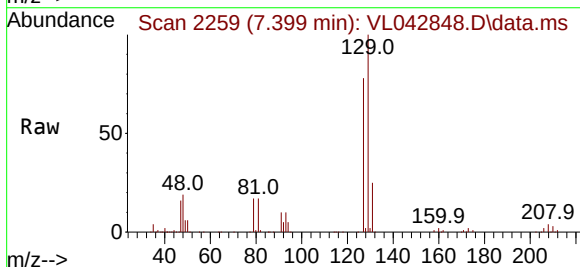
Ion	Ratio	Lower	Upper
97	100		
83	86.0	71.0	106.4
85	57.0	43.6	65.4
99	61.7	49.0	73.4

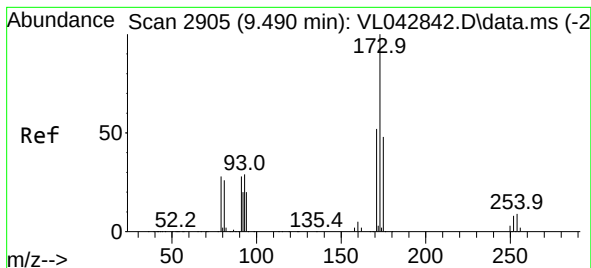


#48
Dibromochloromethane
Concen: 14.535 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

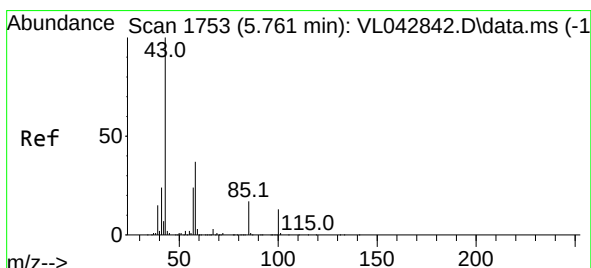
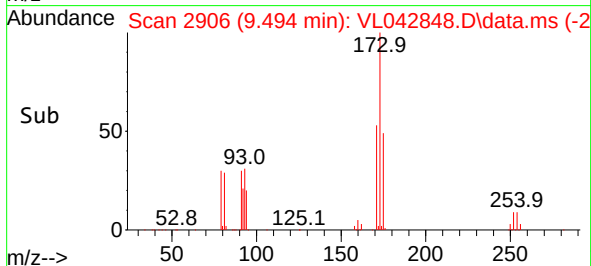
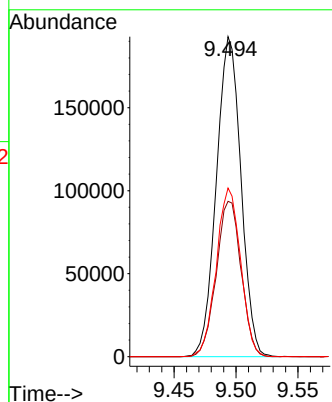
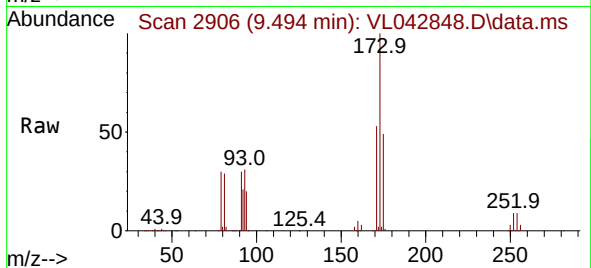
Tgt Ion:173 Resp: 266732

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

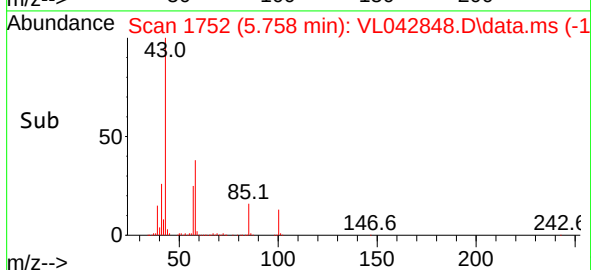
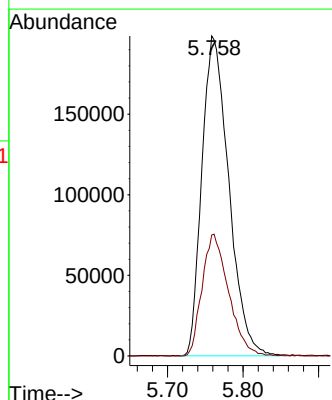
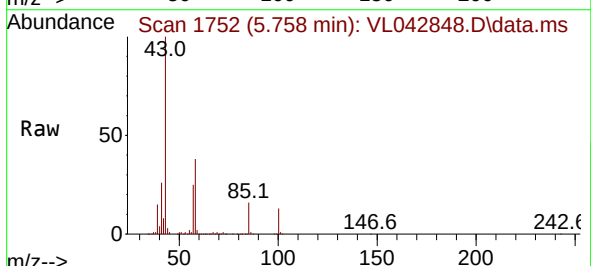
Acq: 13 Aug 2025 12:06

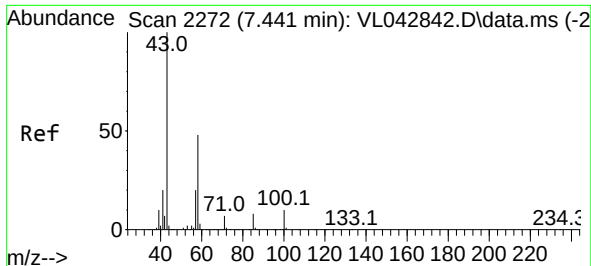
Tgt Ion: 43 Resp: 490917

Ion Ratio Lower Upper

43 100

58 37.5 29.8 44.8

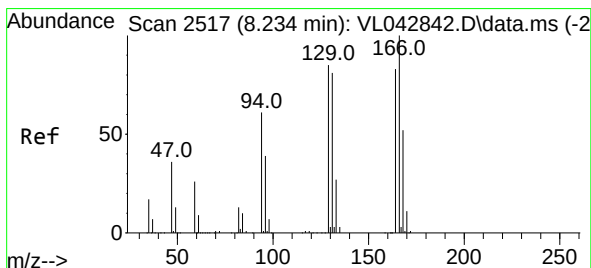
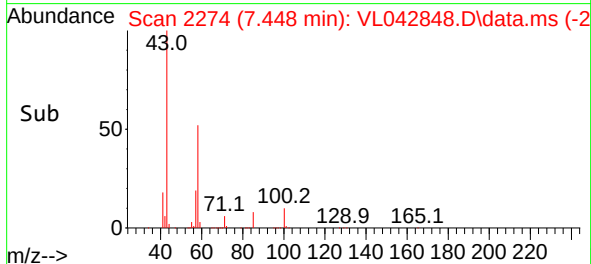
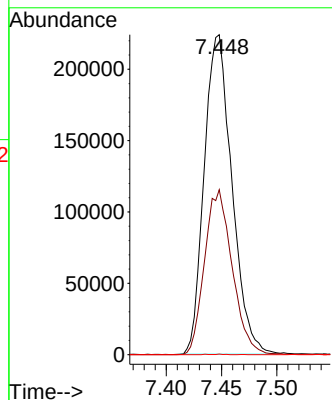
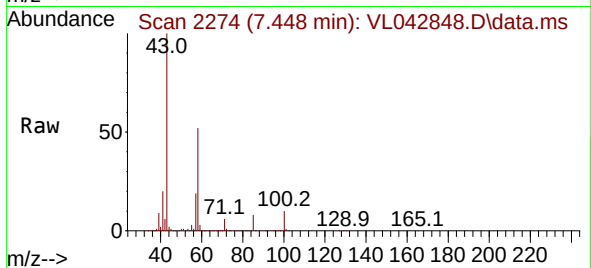




#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

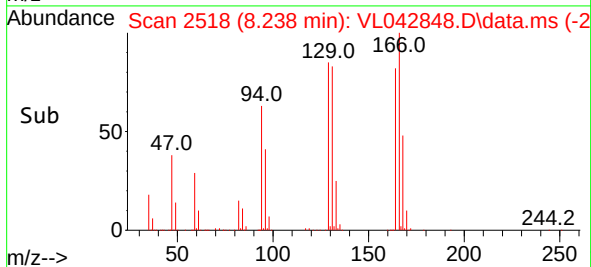
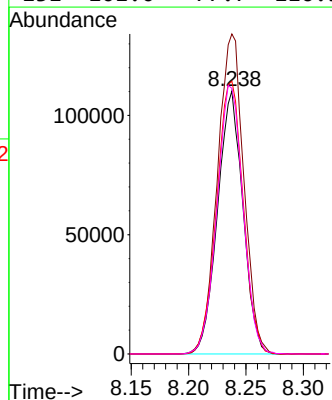
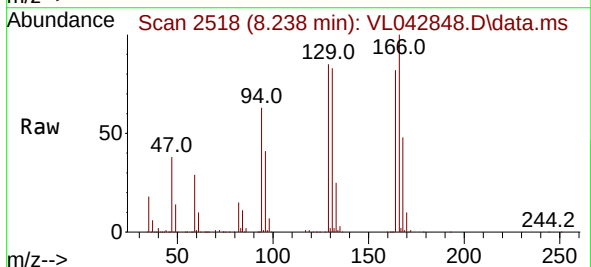
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

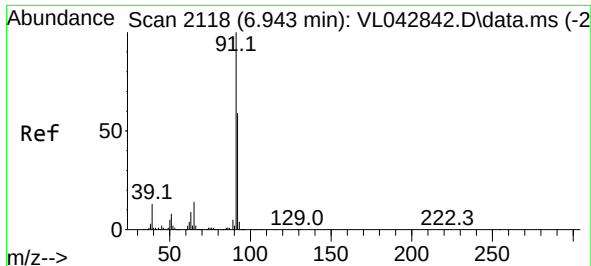
Tgt Ion: 43 Resp: 389940
Ion Ratio Lower Upper
43 100
58 51.6 41.0 61.6
98 0.1 0.1 0.1



#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

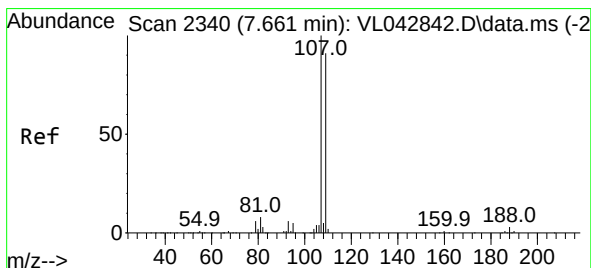
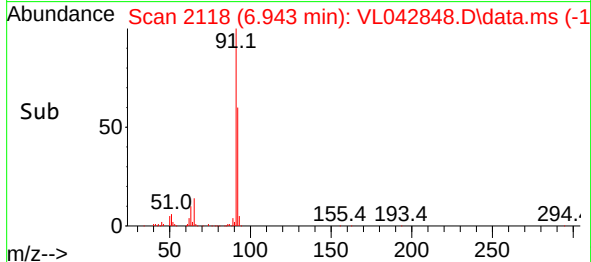
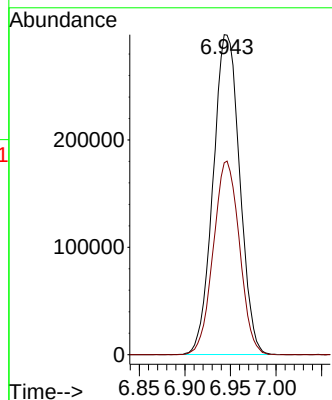
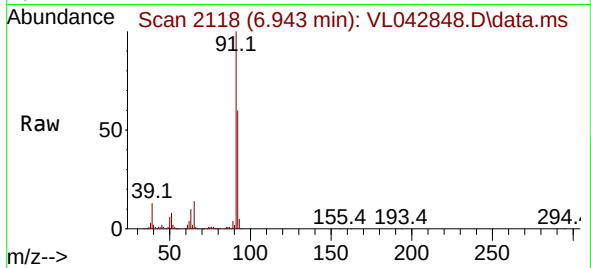




#53
Toluene
Concen: 13.961 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

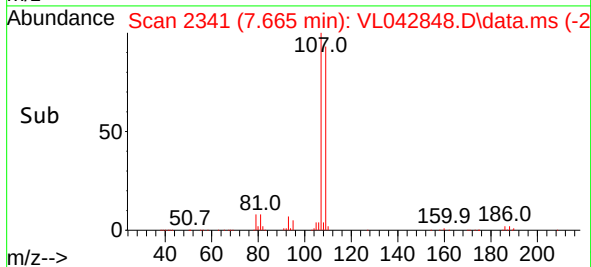
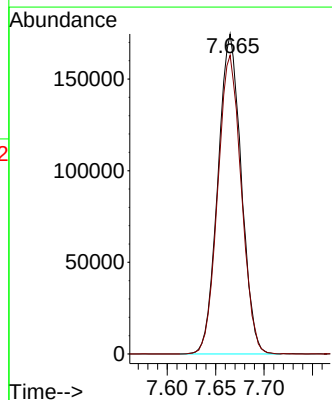
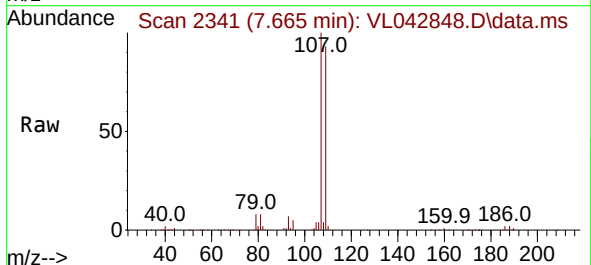
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

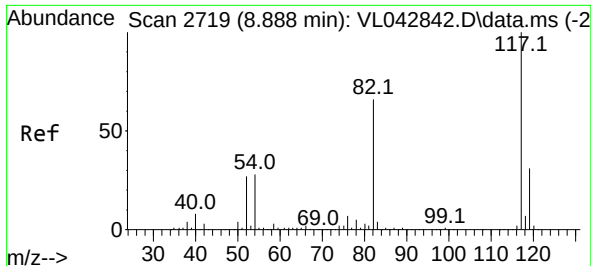
Tgt Ion: 91 Resp: 605941
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6



#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

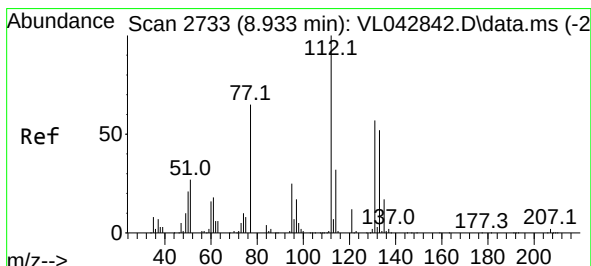
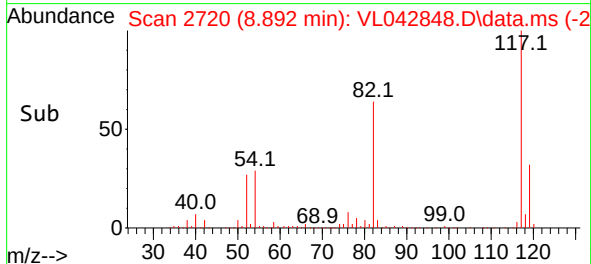
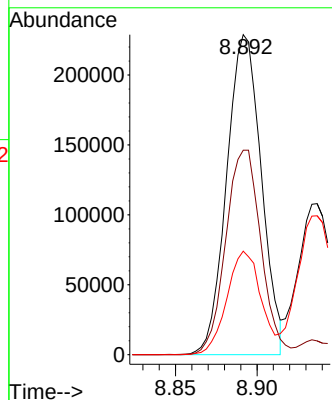
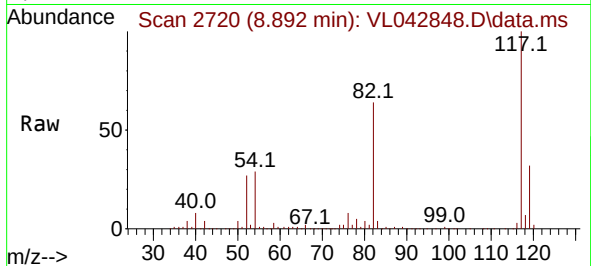




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

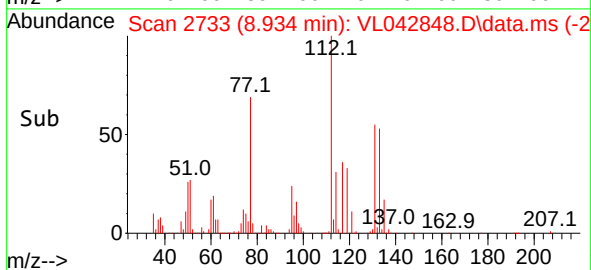
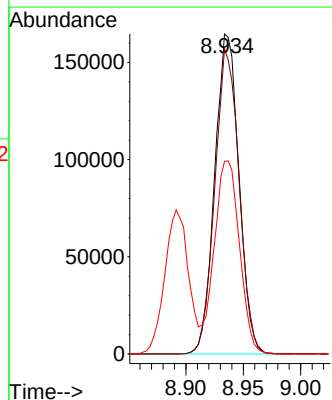
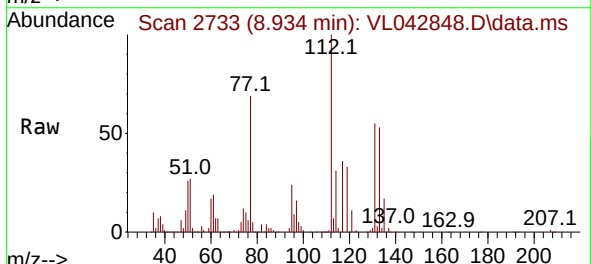
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

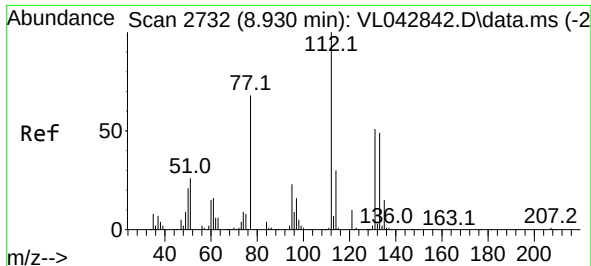
Tgt Ion:117 Resp: 337876
Ion Ratio Lower Upper
117 100
82 65.3 54.6 81.8
119 32.5 25.9 38.9



#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

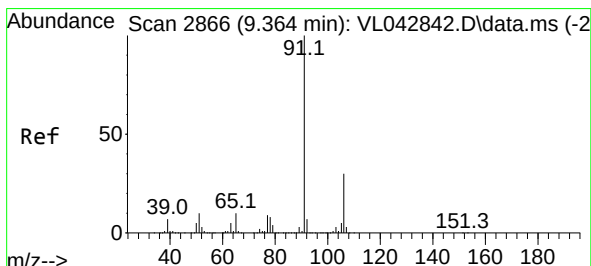
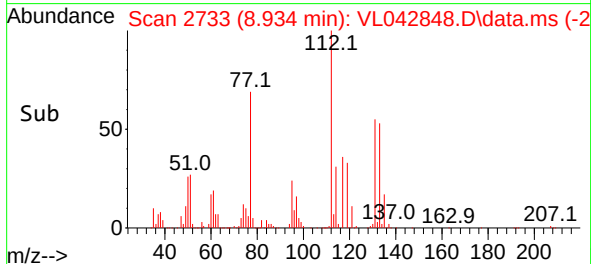
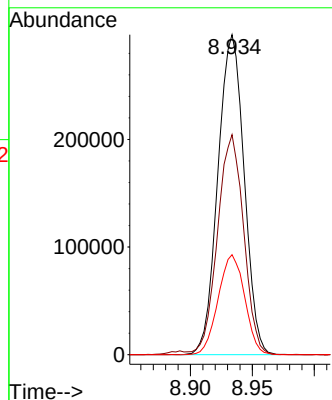
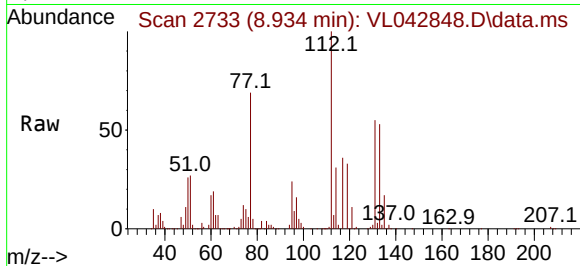




#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

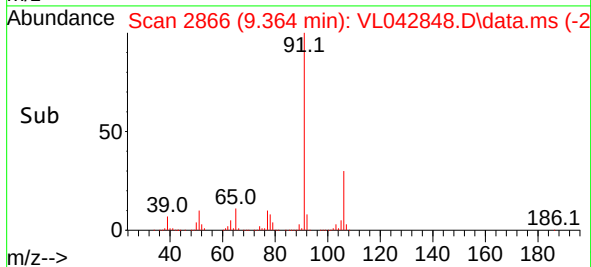
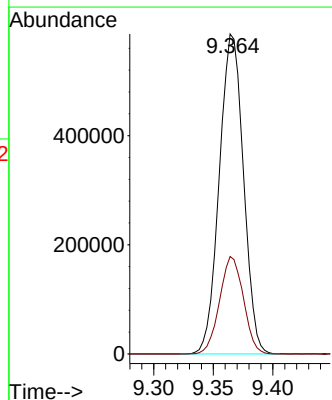
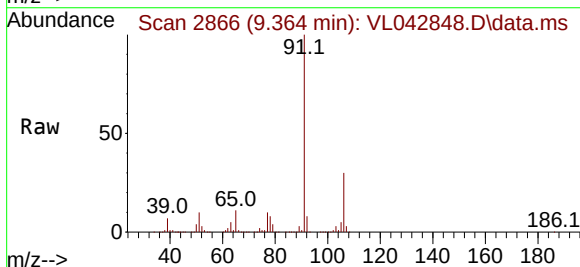
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

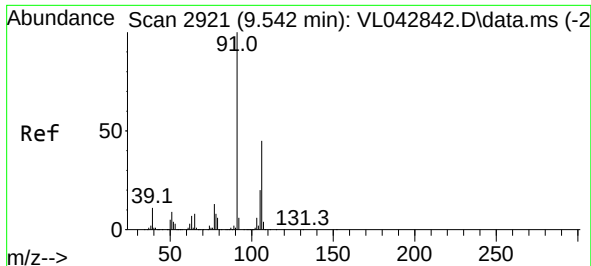
Tgt Ion:112 Resp: 439109
Ion Ratio Lower Upper
112 100
77 68.6 55.5 83.3
114 31.2 27.2 33.2



#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 :

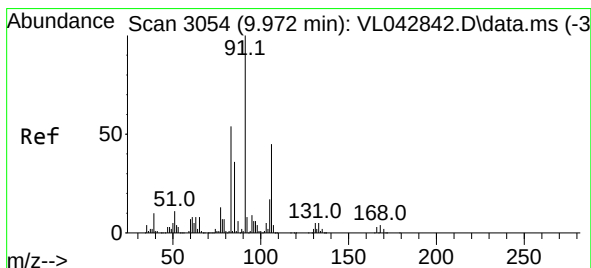
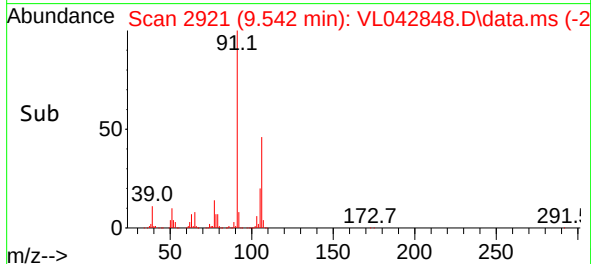
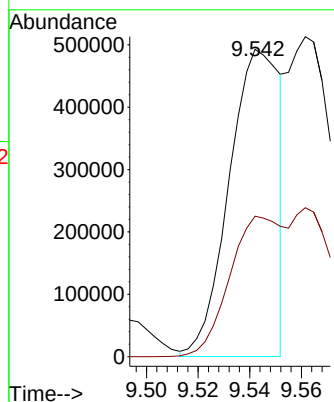
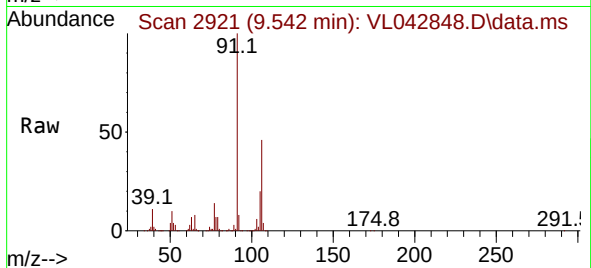
VSTDIC015

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

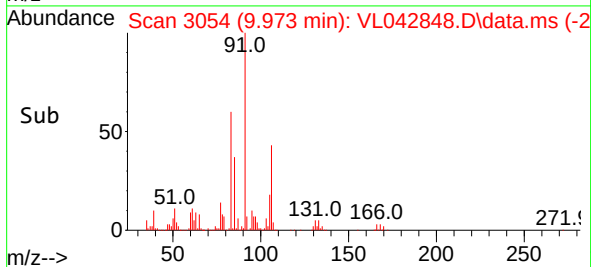
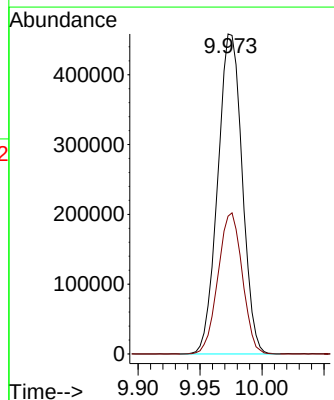
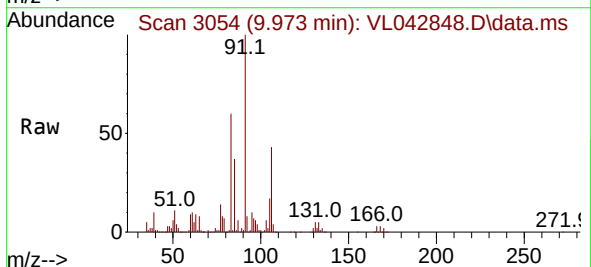
Acq: 13 Aug 2025 12:06

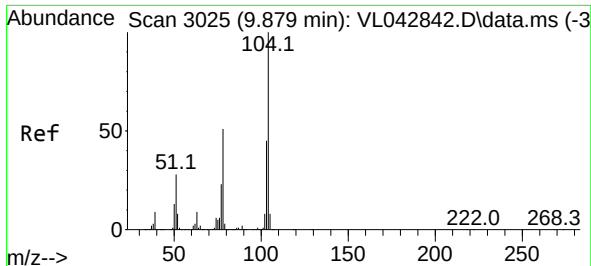
Tgt Ion: 91 Resp: 629445

Ion Ratio Lower Upper

91 100

106 43.9 21.8 65.4

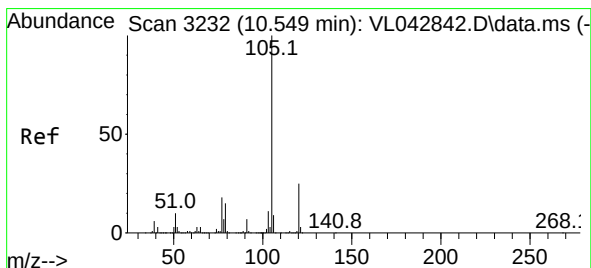
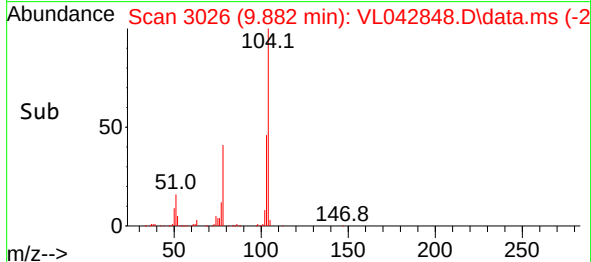
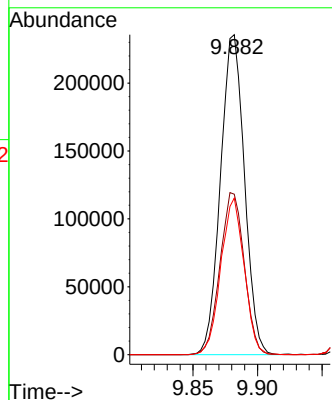
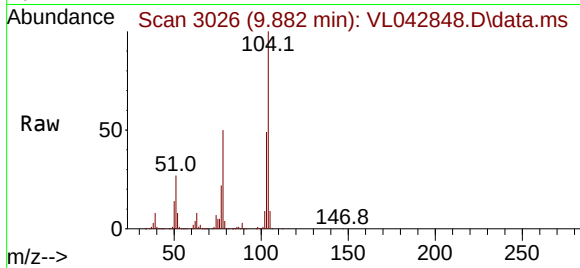




#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

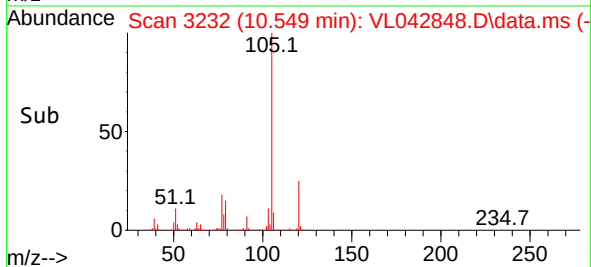
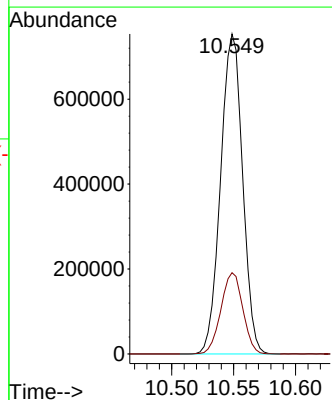
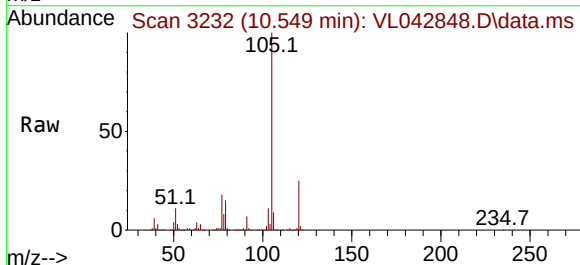
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

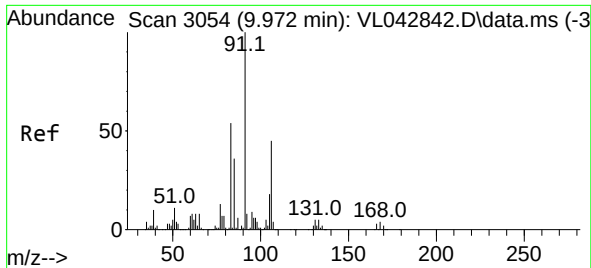
Tgt Ion:104 Resp: 304560
Ion Ratio Lower Upper
104 100
78 51.1 40.6 61.0
103 47.6 37.7 56.5



#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



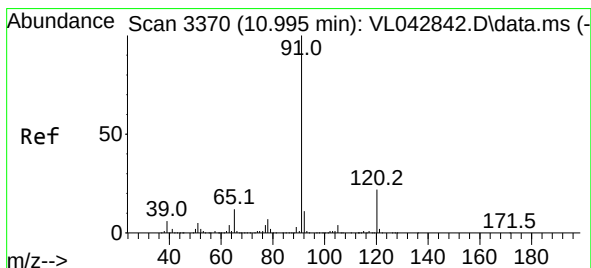
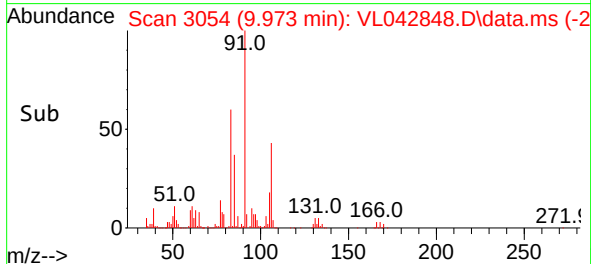
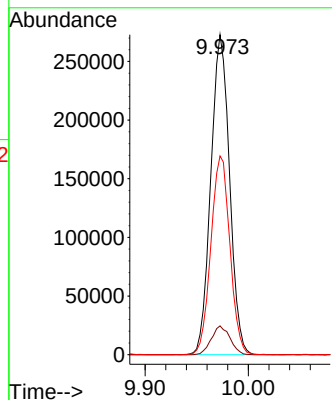
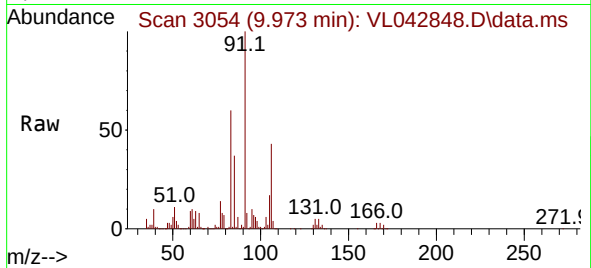


#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.356 ppbv
 RT: 9.973 min Scan# 3054
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 83 Resp: 342890

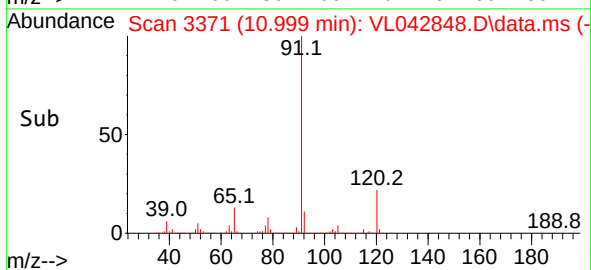
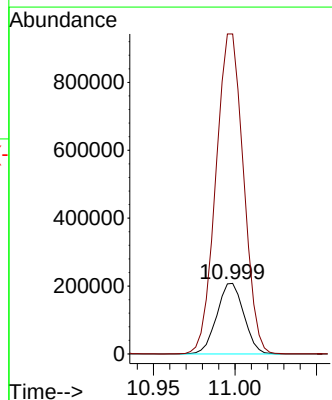
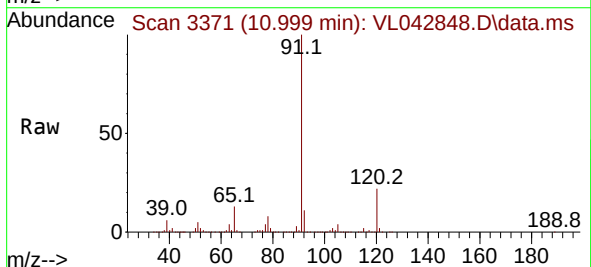
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.8	14.3
85	63.0	32.3	96.8

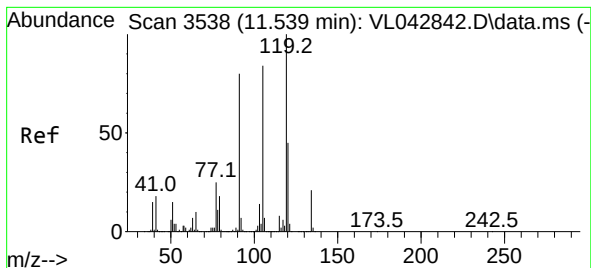


#64
 n-propylbenzene
 Concen: 13.646 ppbv
 RT: 10.999 min Scan# 3371
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

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

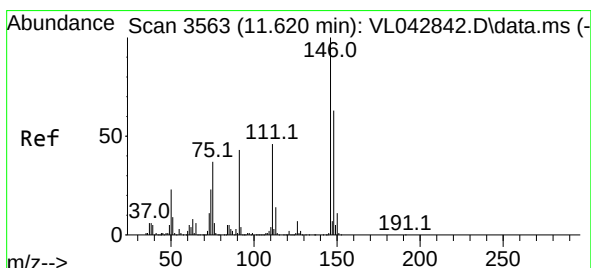
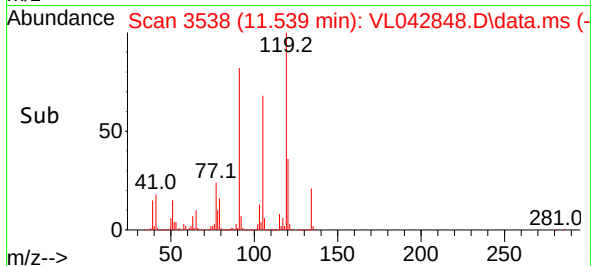
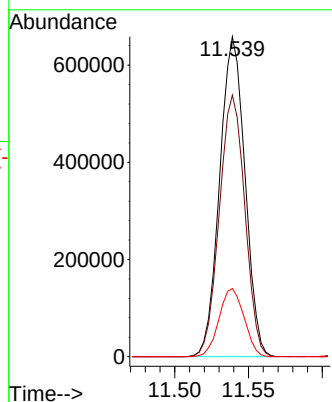
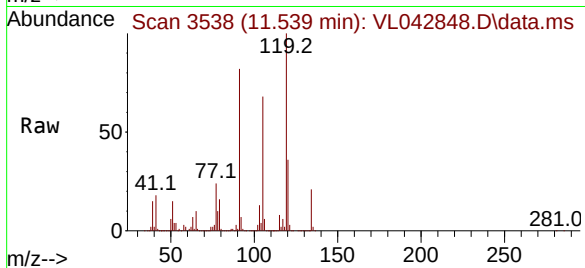
Tgt Ion:119 Resp: 785250

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

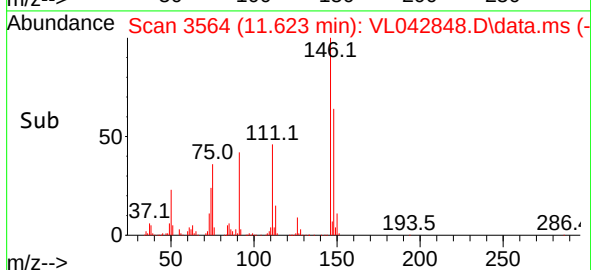
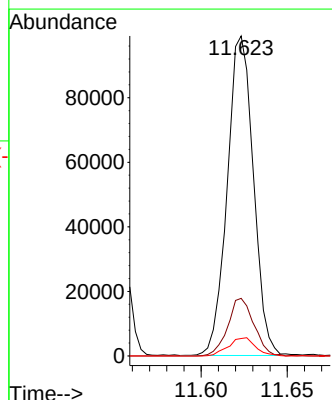
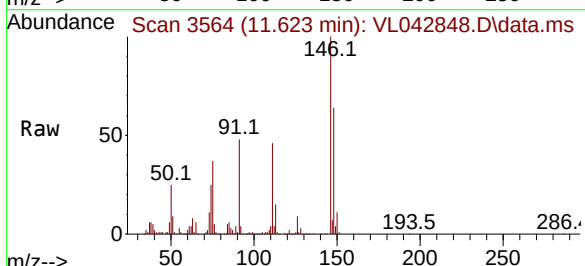
Tgt Ion: 91 Resp: 104698

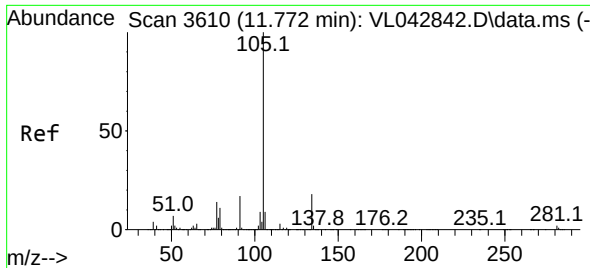
Ion Ratio Lower Upper

91 100

126 18.1 14.2 21.4

128 5.9 5.0 7.6

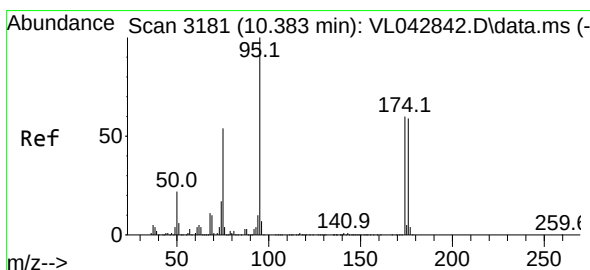
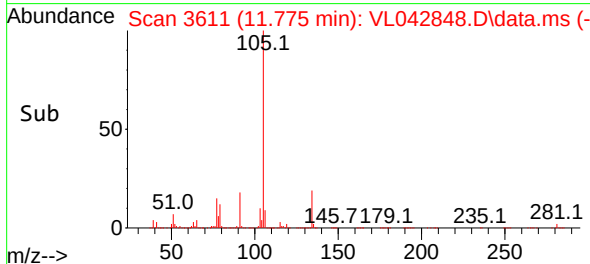
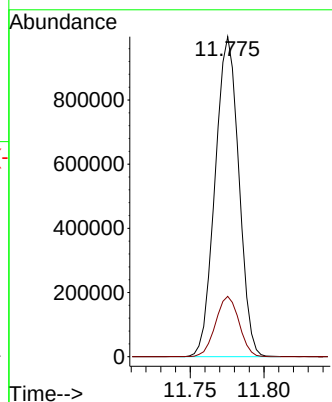
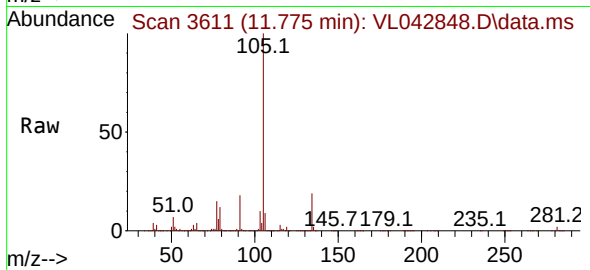




#67
 sec-Butylbenzene
 Concen: 13.127 ppbv
 RT: 11.775 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

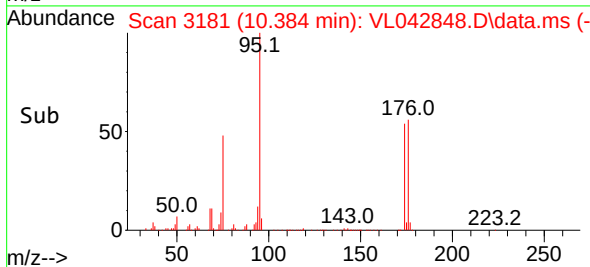
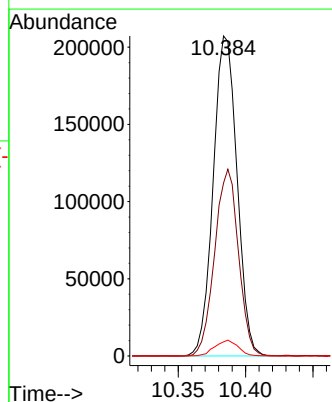
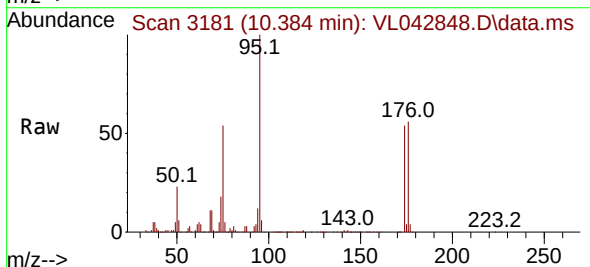
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

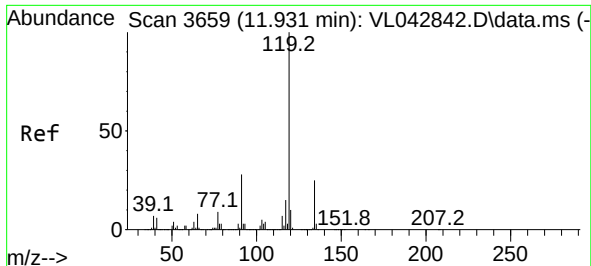
Tgt Ion:105 Resp: 1115979
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3



#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

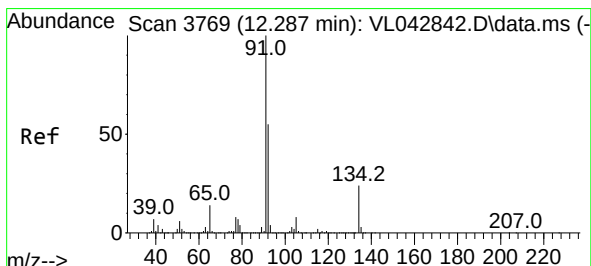
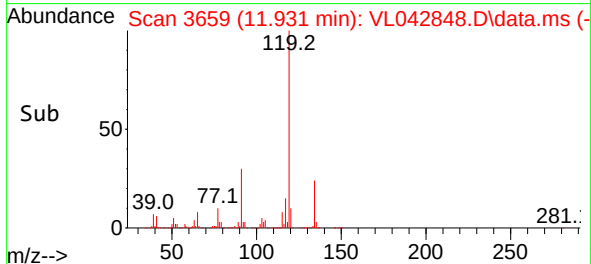
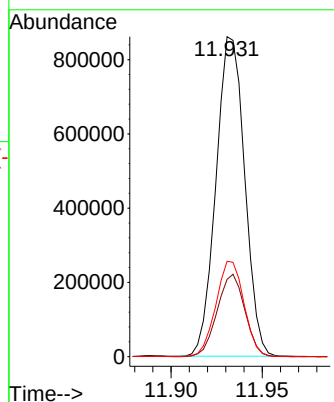
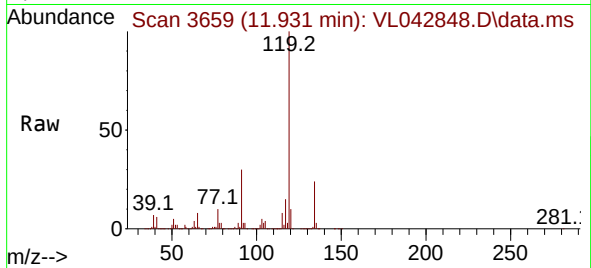




#69
 p-Isopropyltoluene
 Concen: 12.891 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

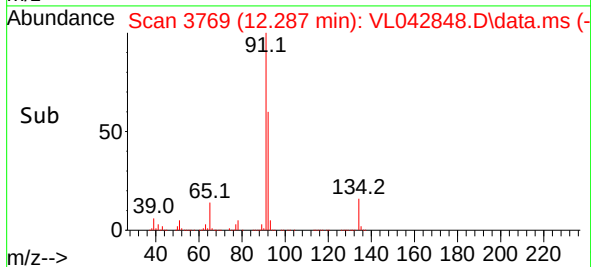
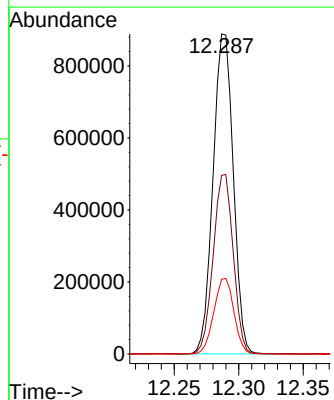
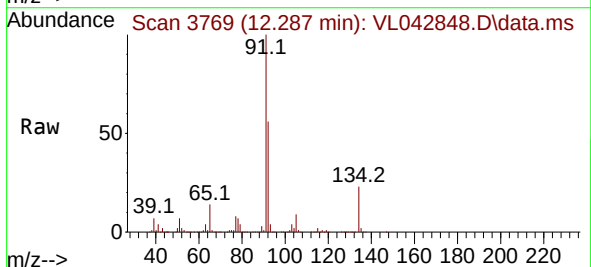
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

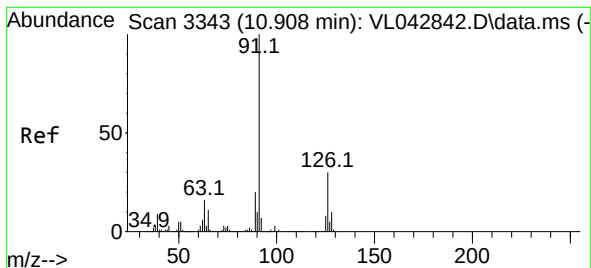
Tgt Ion:119 Resp: 940888
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.6 30.8
 91 29.4 22.6 34.0



#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

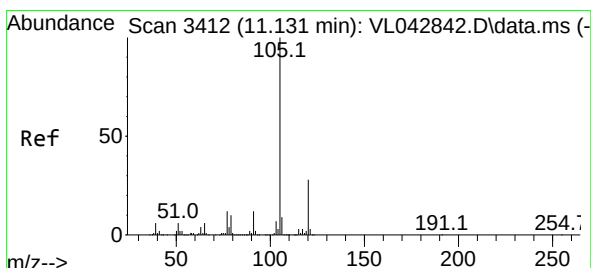
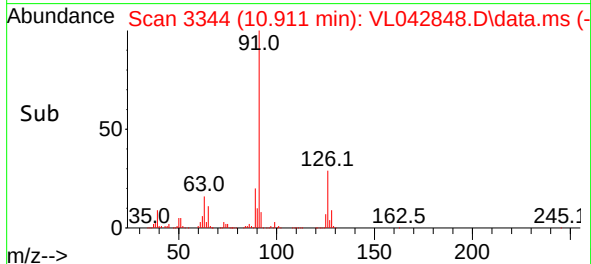
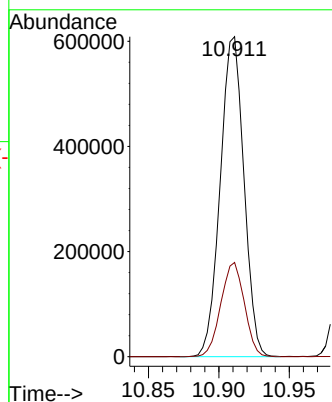
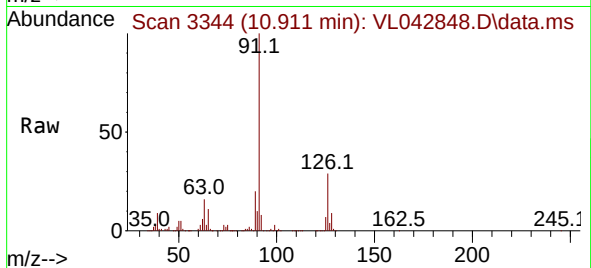




#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

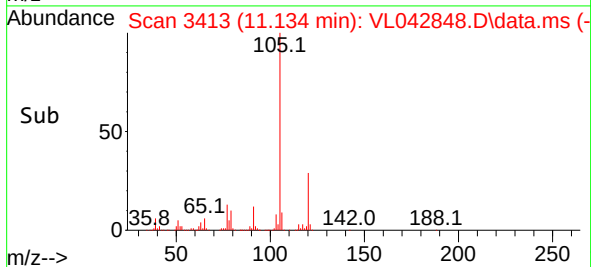
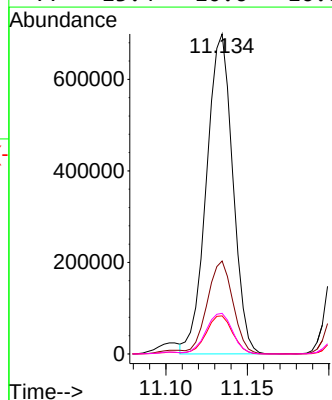
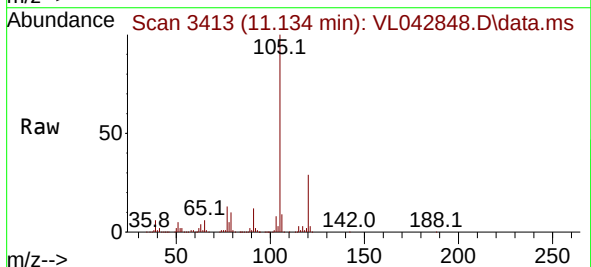
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

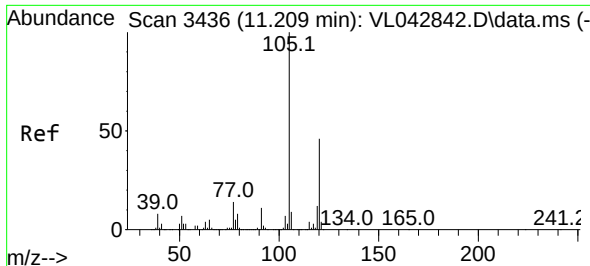
Tgt Ion: 91 Resp: 713696
Ion Ratio Lower Upper
91 100
126 29.2 12.0 47.8



#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

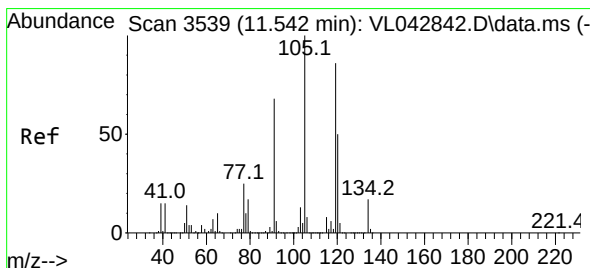
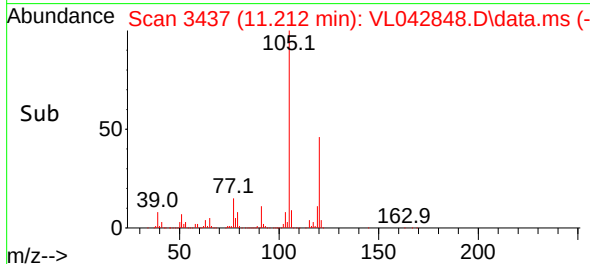
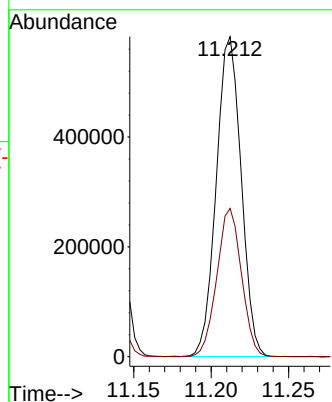
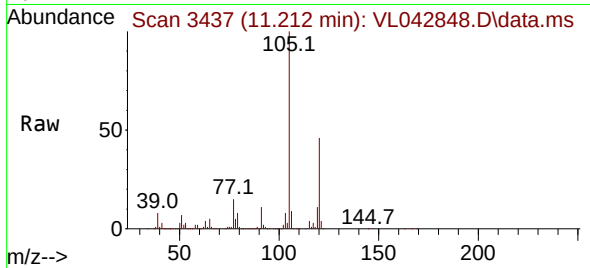




#73
1,3,5-Trimethylbenzene
Concen: 13.418 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

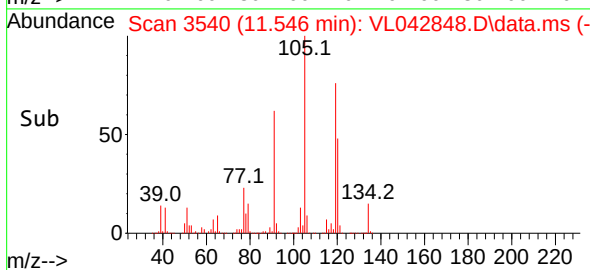
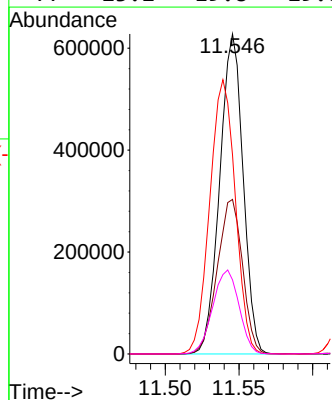
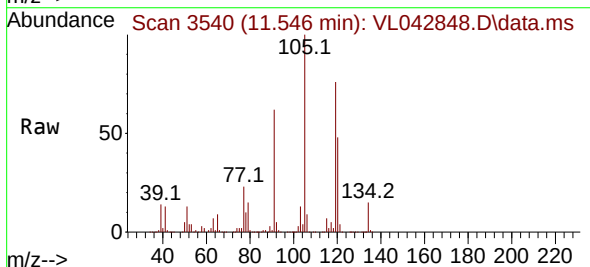
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

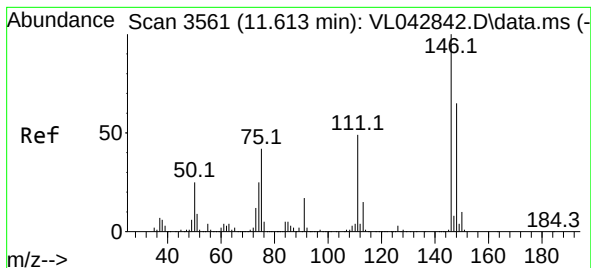
Tgt Ion:105 Resp: 650280
Ion Ratio Lower Upper
105 100
120 46.4 36.6 54.8



#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# 3561

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

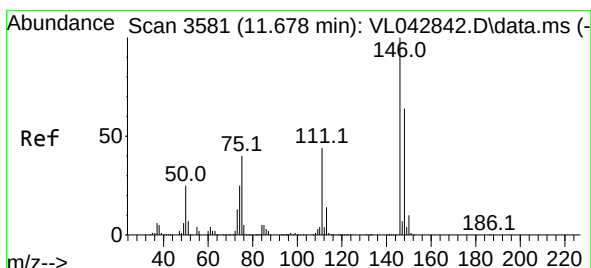
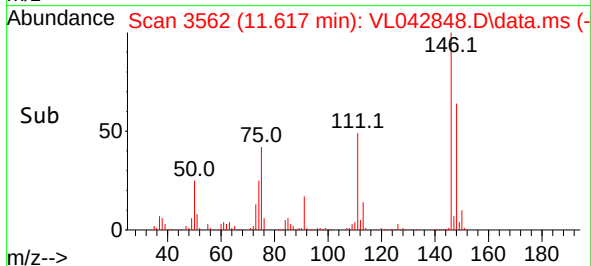
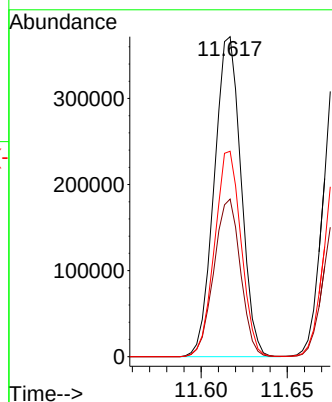
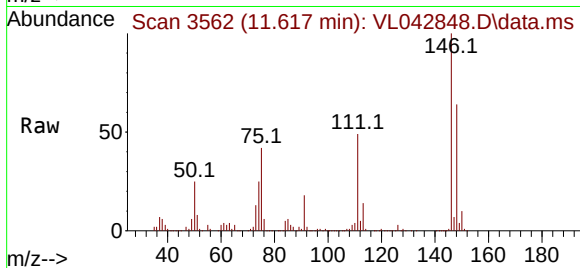
Tgt Ion:146 Resp: 402850

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

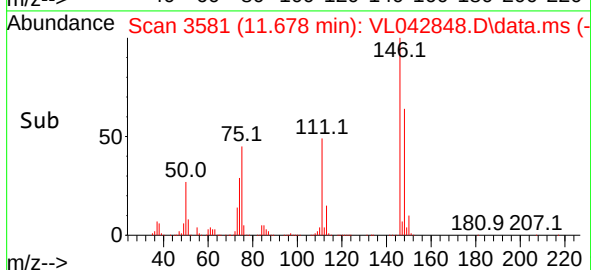
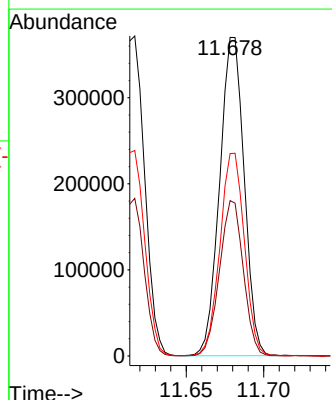
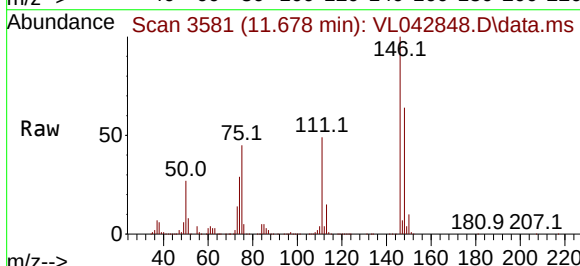
Tgt Ion:146 Resp: 407214

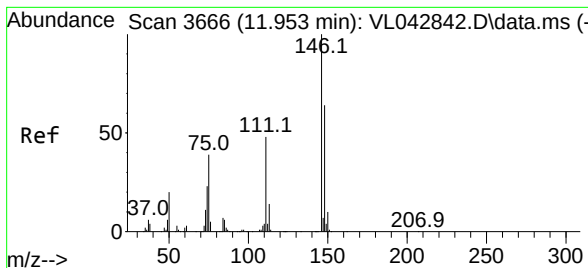
Ion Ratio Lower Upper

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

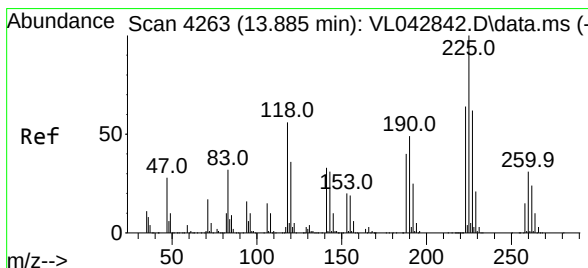
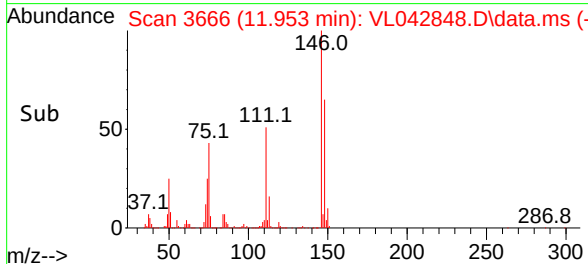
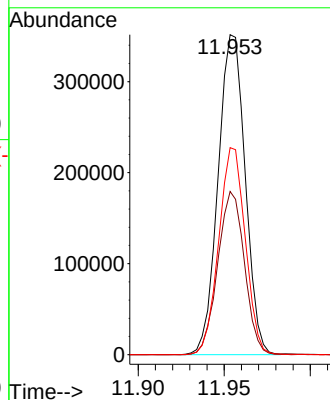
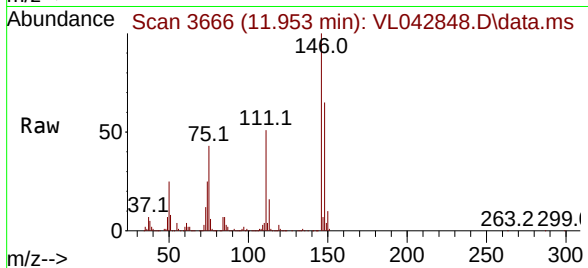
Tgt Ion:146 Resp: 385866

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

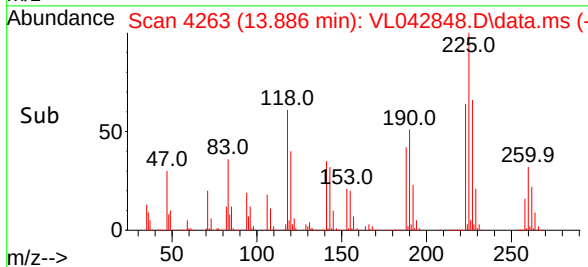
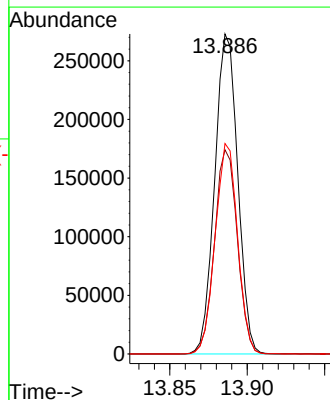
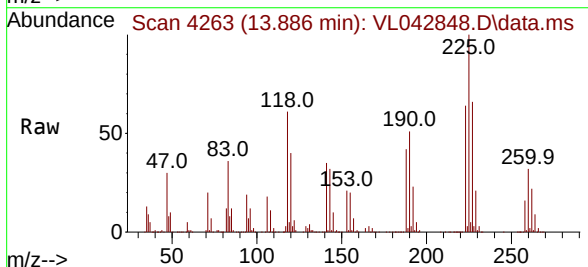
Tgt Ion:225 Resp: 281581

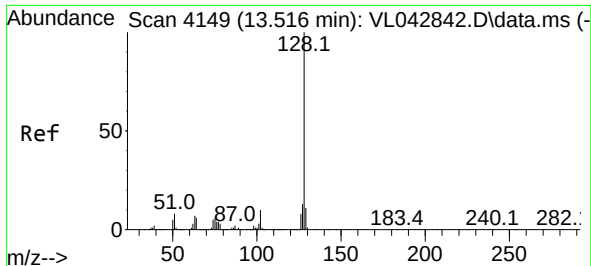
Ion Ratio Lower Upper

225 100

223 63.6 51.4 77.2

227 64.2 51.9 77.9

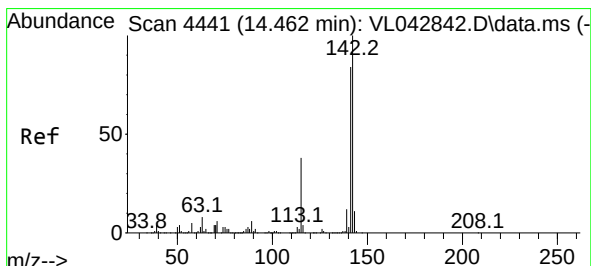
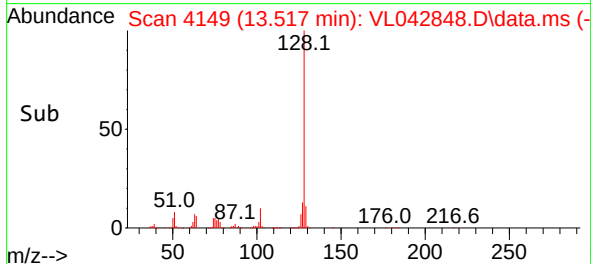
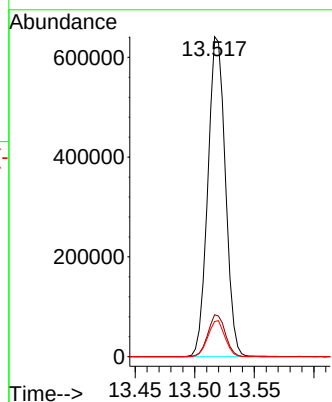
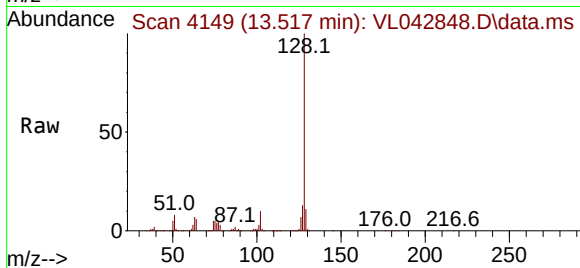




#79
Naphthalene
Concen: 13.837 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

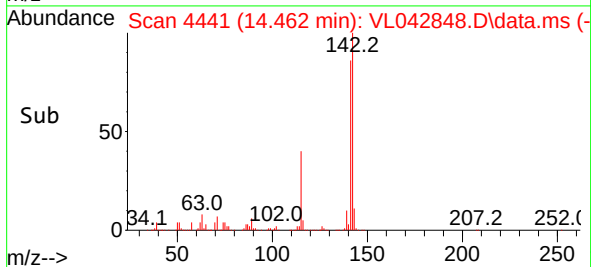
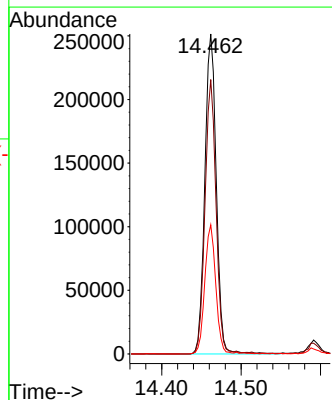
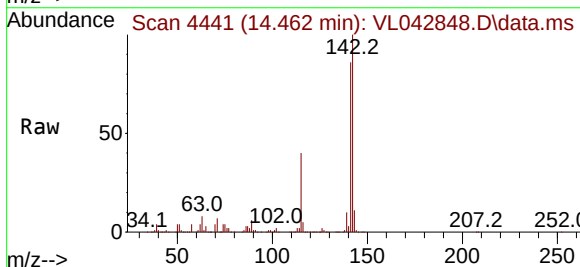
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

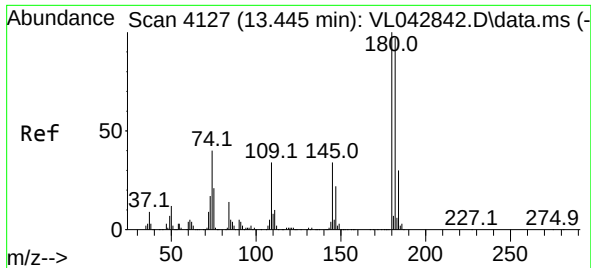
Tgt Ion:128 Resp: 658732
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 11.0 8.9 13.3



#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

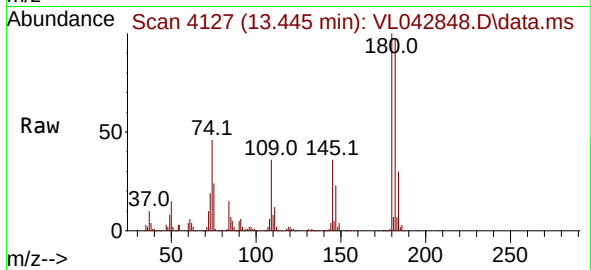
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



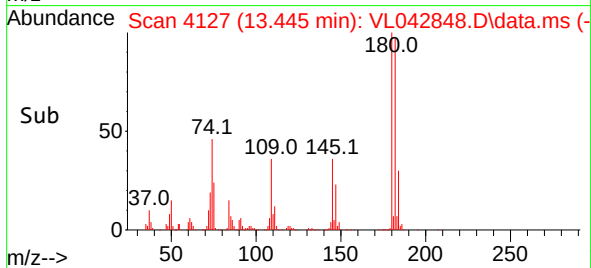
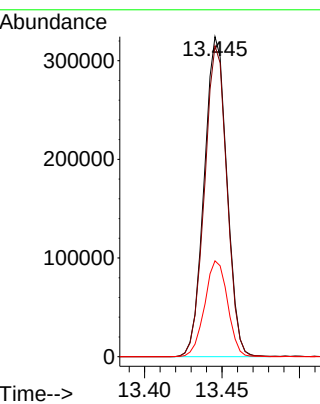
Tgt Ion:180 Resp: 329641

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 :
 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

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

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 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

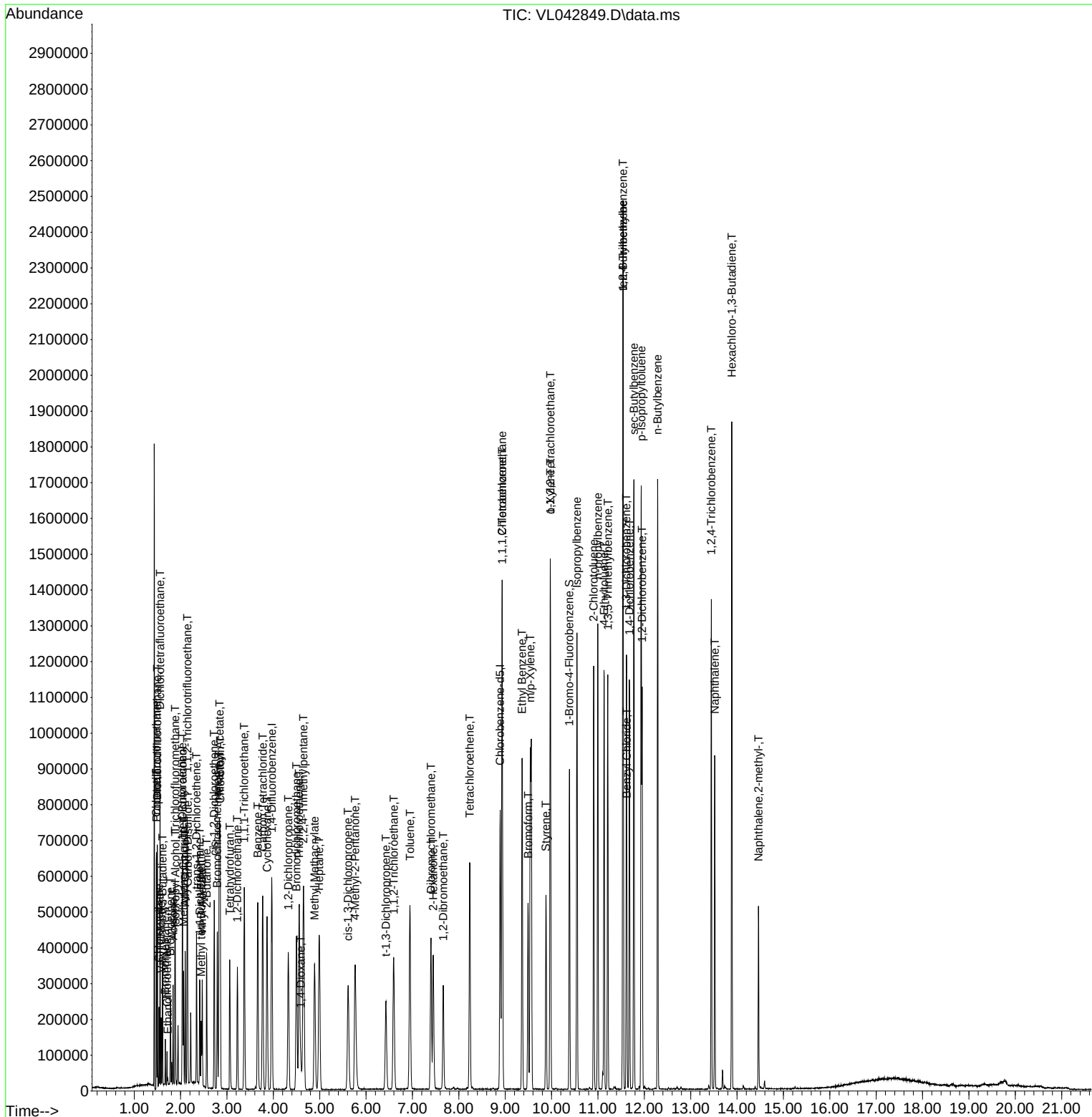
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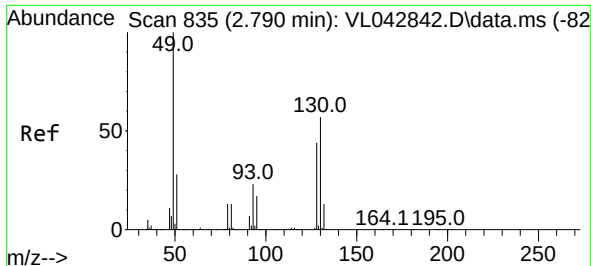
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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
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Response via : Initial Calibration

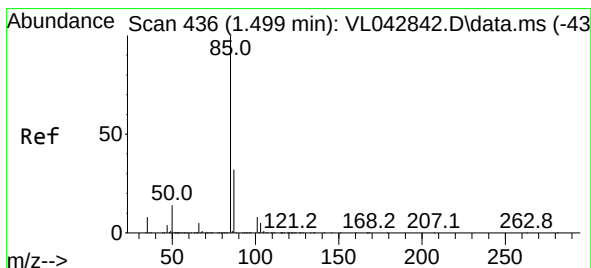
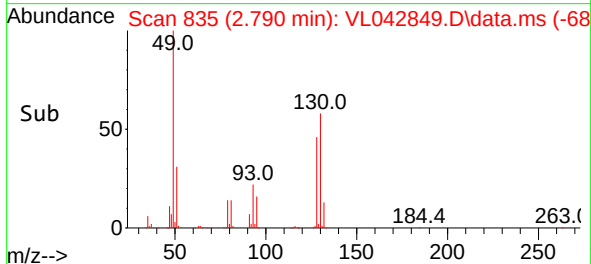
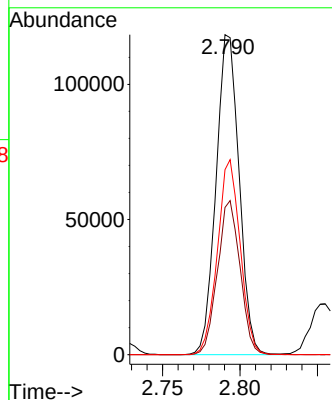
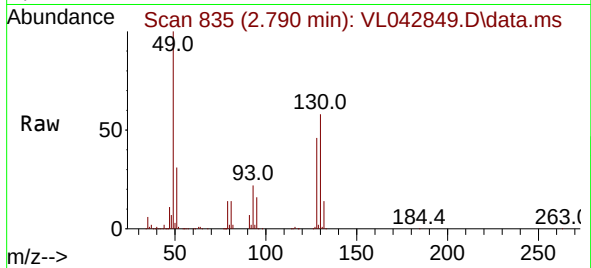




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

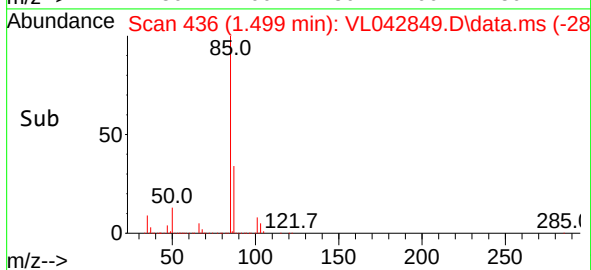
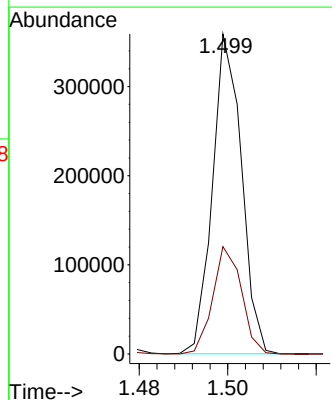
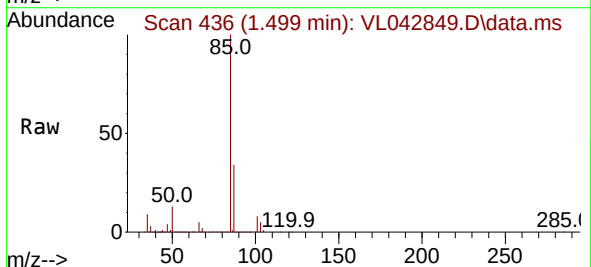
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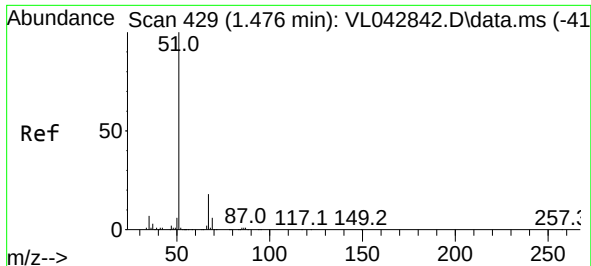
Tgt Ion: 49 Resp: 122486
Ion Ratio Lower Upper
49 100
128 47.2 23.7 71.1
130 60.0 30.6 91.6



#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

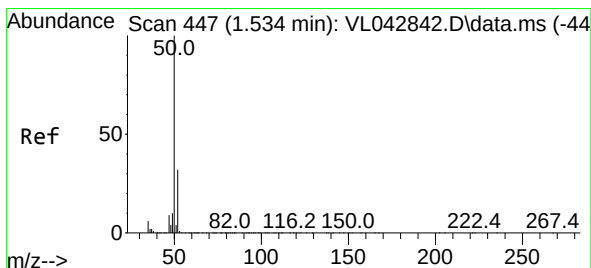
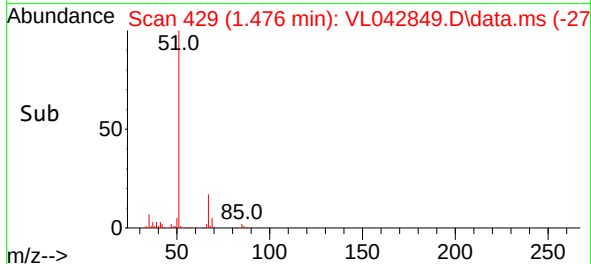
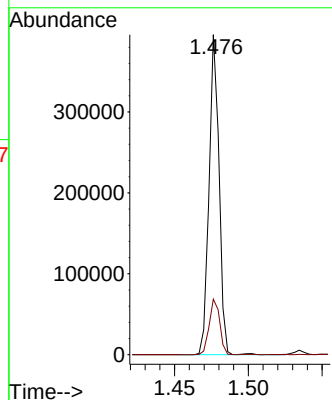
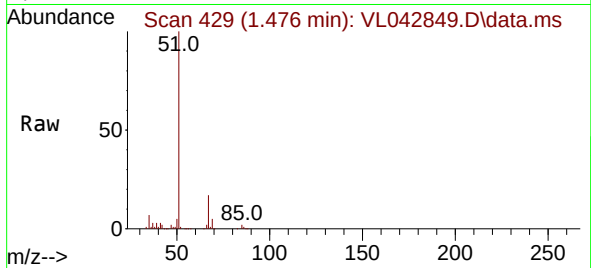




#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

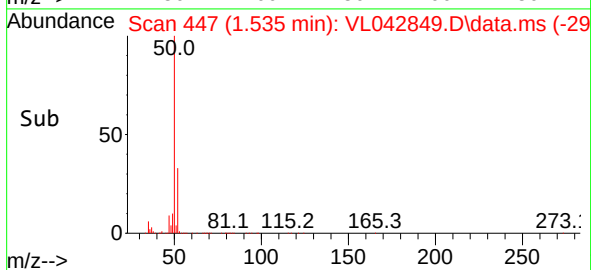
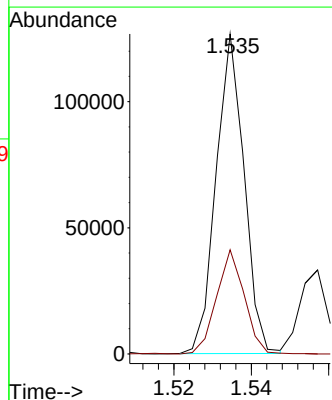
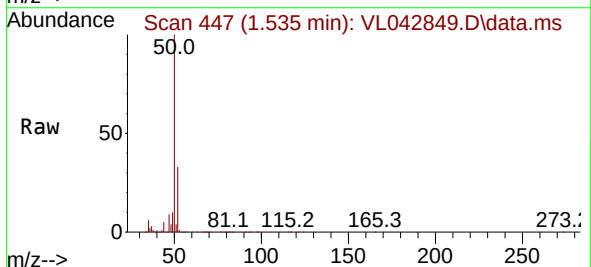
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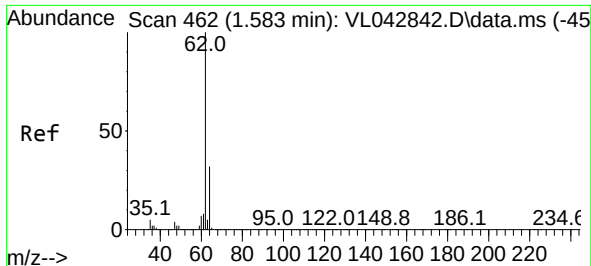
Tgt Ion: 51 Resp: 185078
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#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

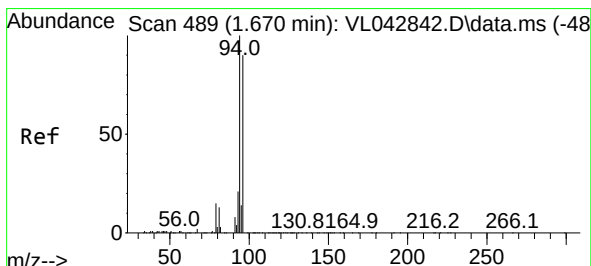
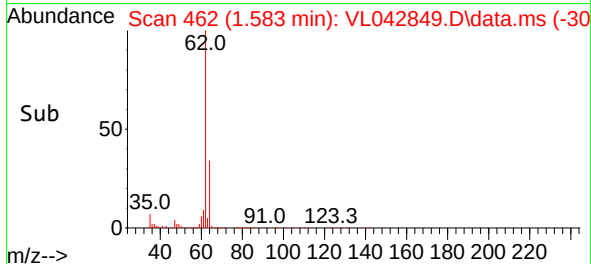
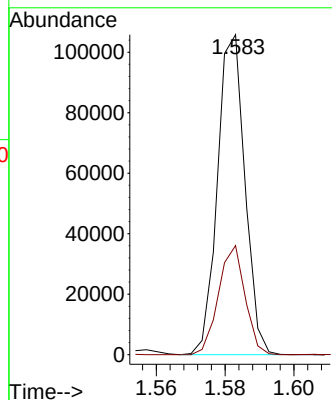
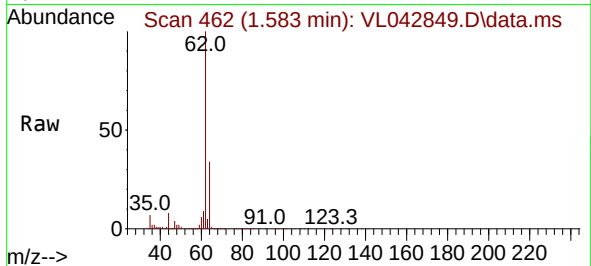




#5
 Vinyl Chloride
 Concen: 8.232 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

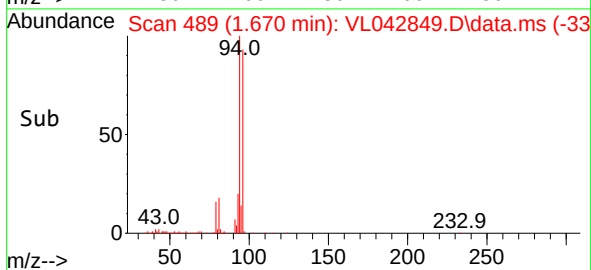
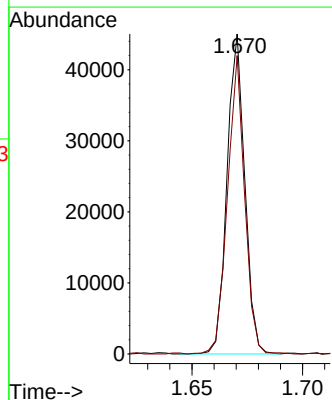
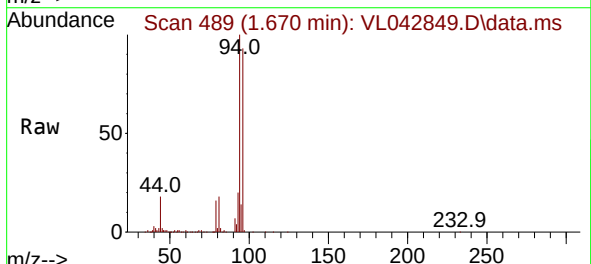
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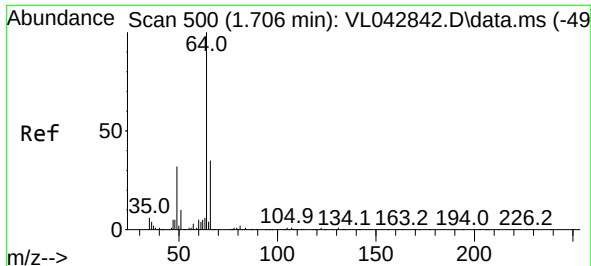
Tgt Ion: 62 Resp: 58729
 Ion Ratio Lower Upper
 62 100
 64 34.1 25.4 38.2



#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

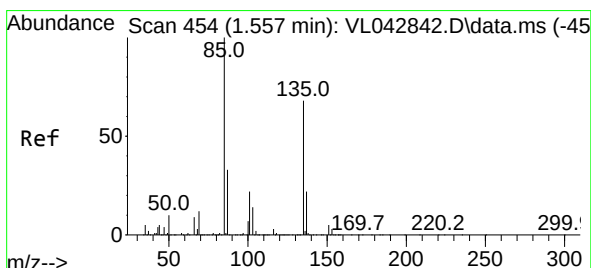
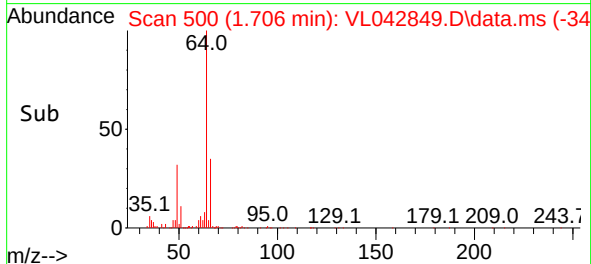
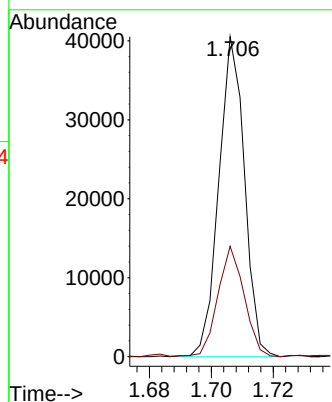
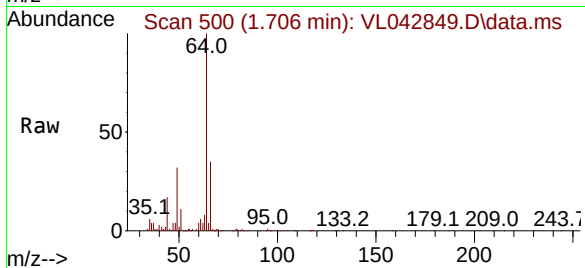




#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

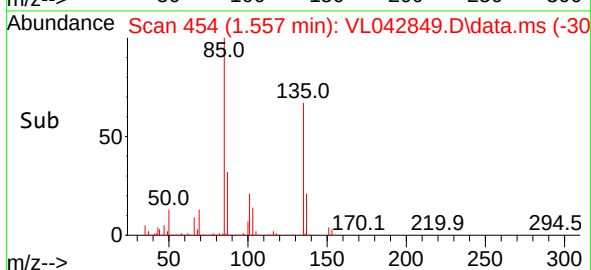
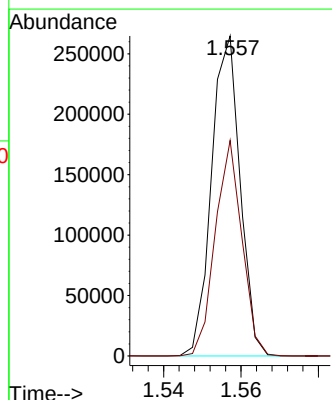
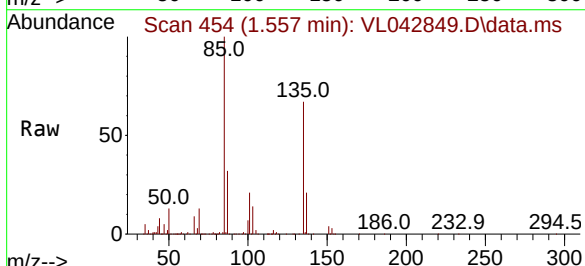
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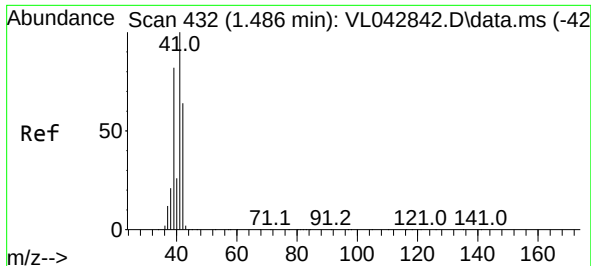
Tgt Ion: 64 Resp: 23293
Ion Ratio Lower Upper
64 100
66 34.5 28.6 42.8



#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 :

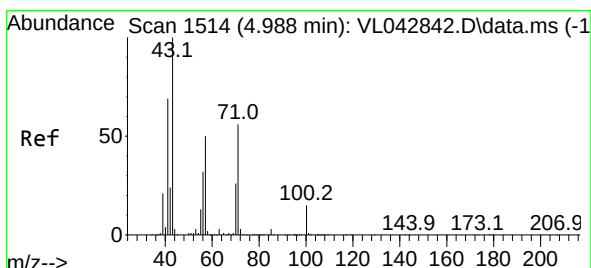
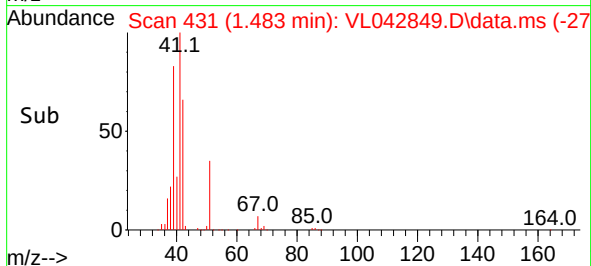
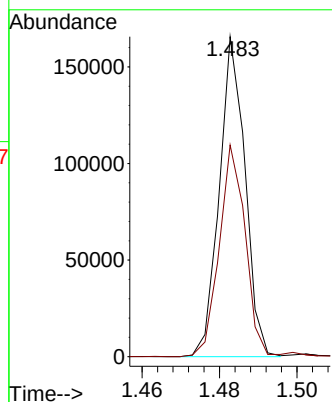
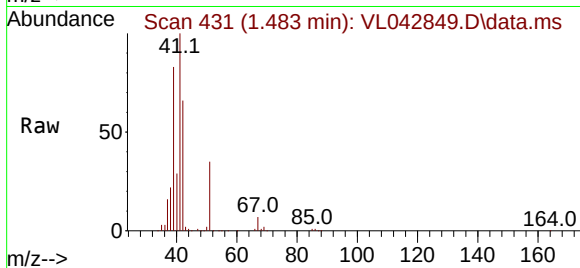
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Tgt Ion: 41 Resp: 76457

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

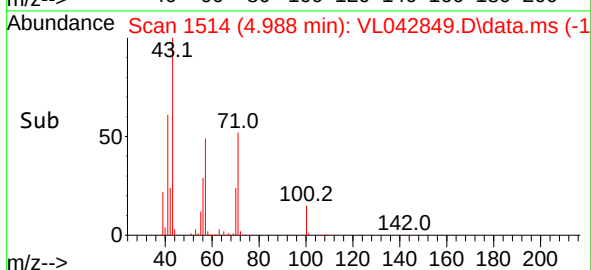
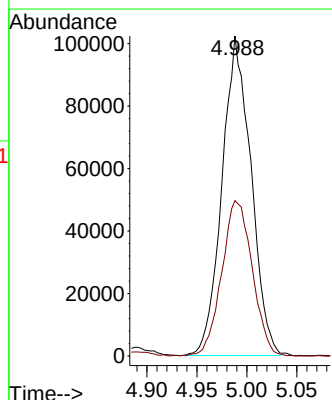
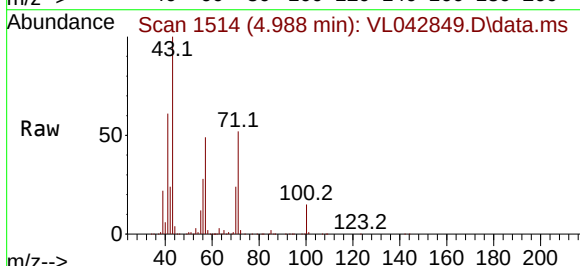
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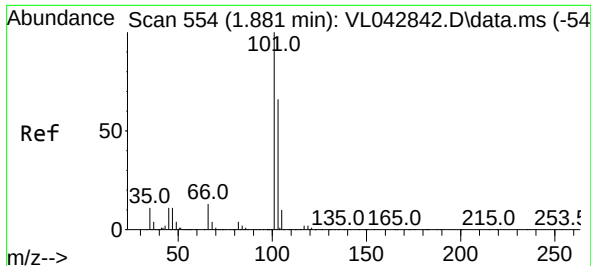
Tgt Ion: 43 Resp: 206333

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0

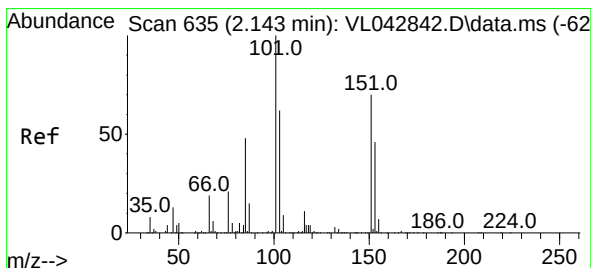
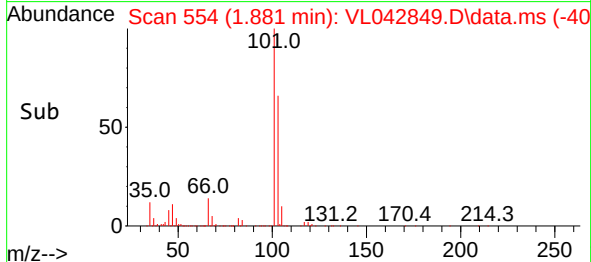
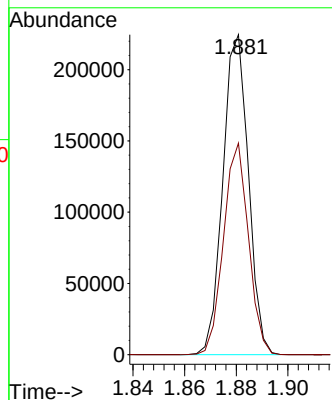
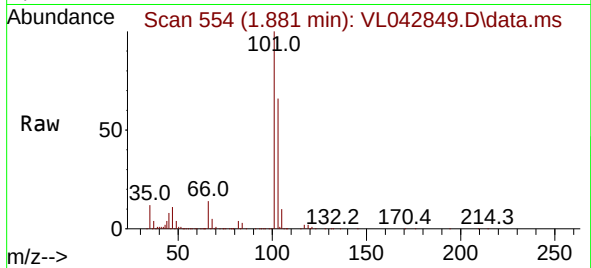




#11
 Trichlorofluoromethane
 Concen: 8.707 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

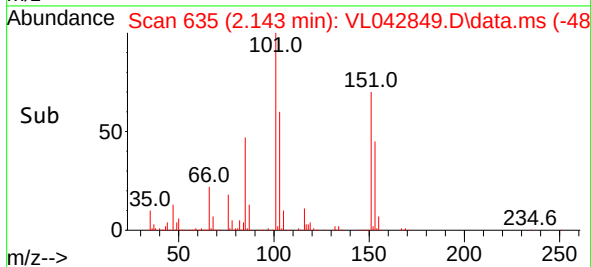
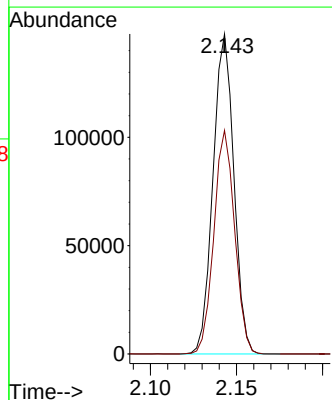
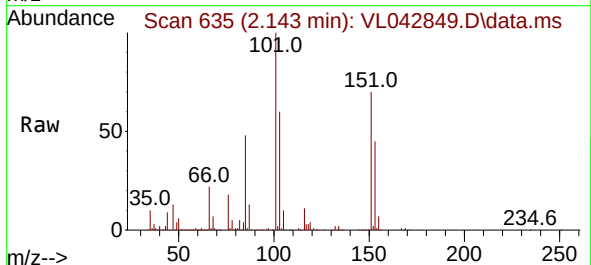
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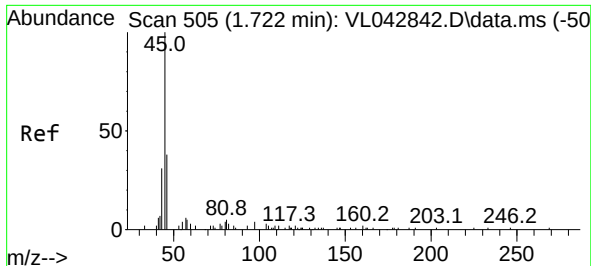
Tgt Ion:101 Resp: 154211
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.5 78.7



#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

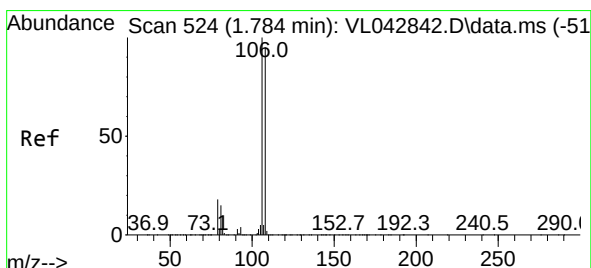
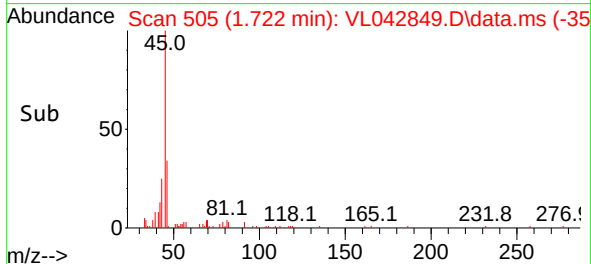
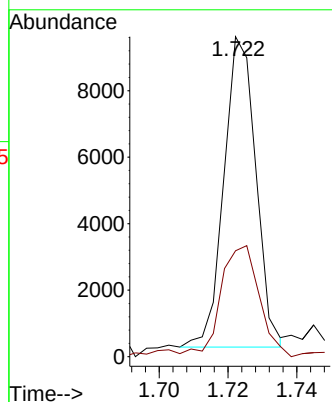
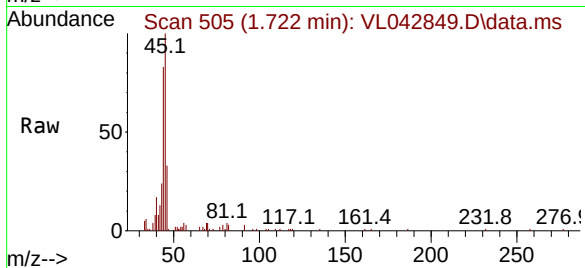




#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

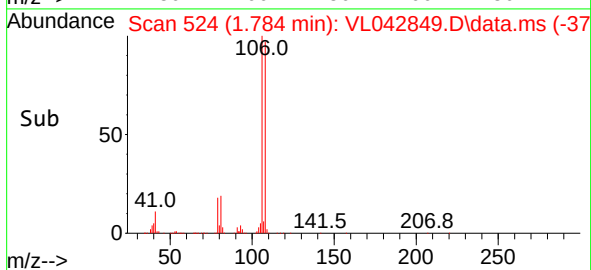
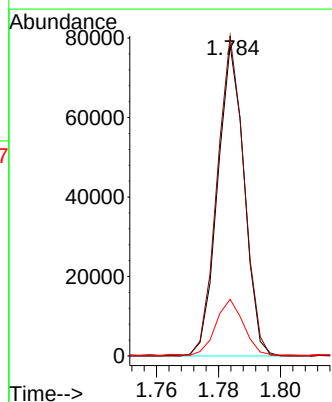
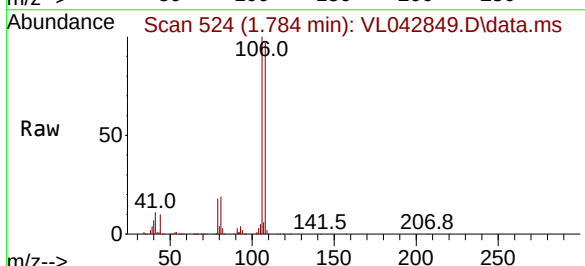
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

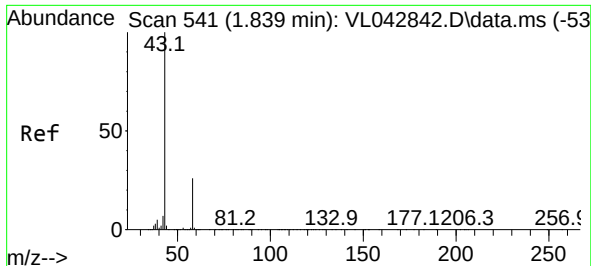
Tgt Ion: 45 Resp: 6016
Ion Ratio Lower Upper
45 100
46 46.2 17.5 69.9



#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

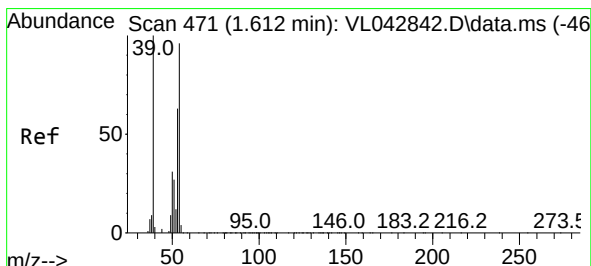
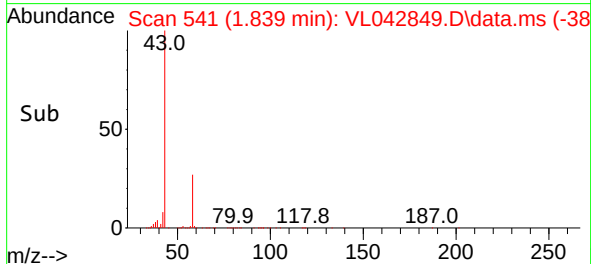
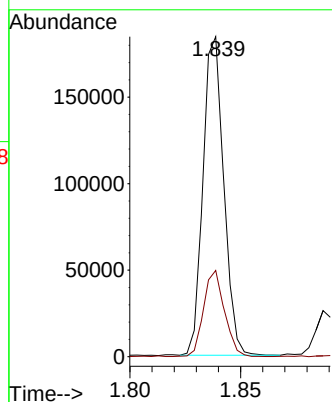
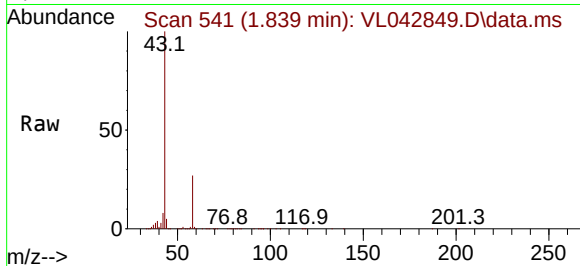




#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

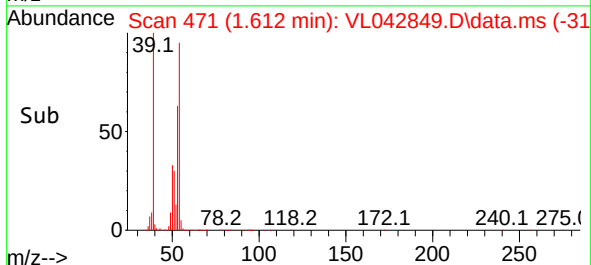
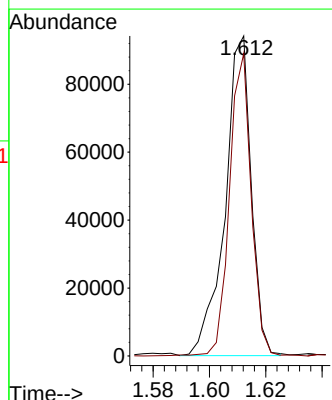
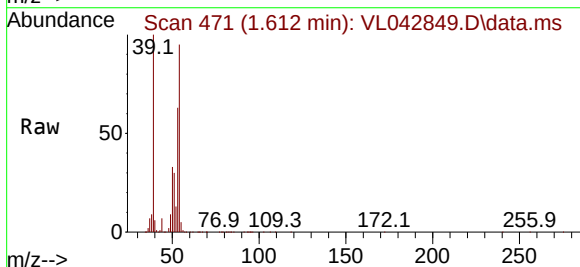
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

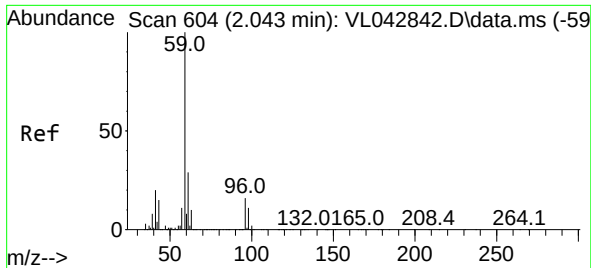
Tgt Ion: 43 Resp: 119723
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6



#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

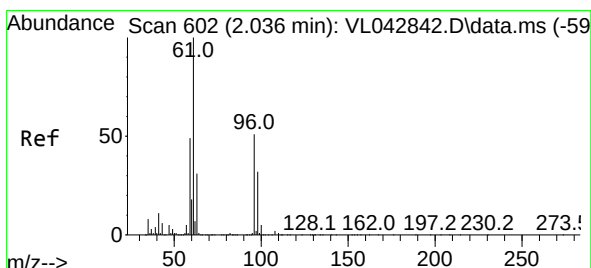
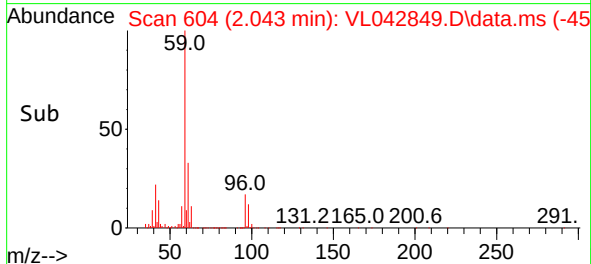
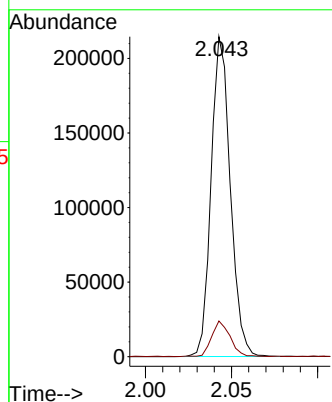
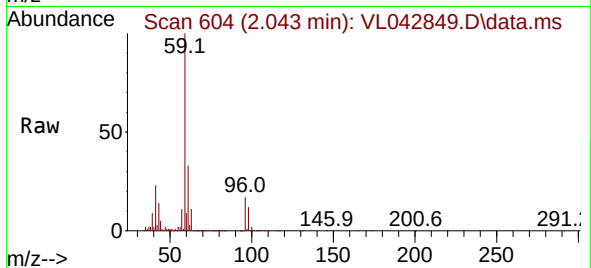




#17
 tert-Butyl alcohol
 Concen: 8.663 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

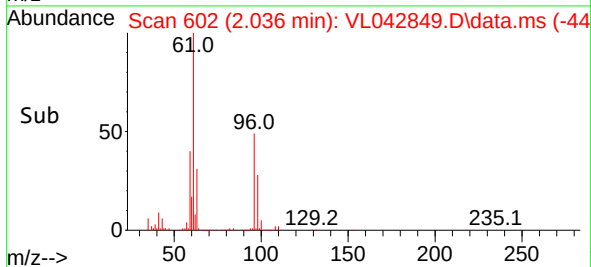
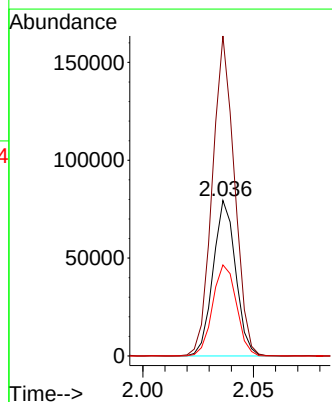
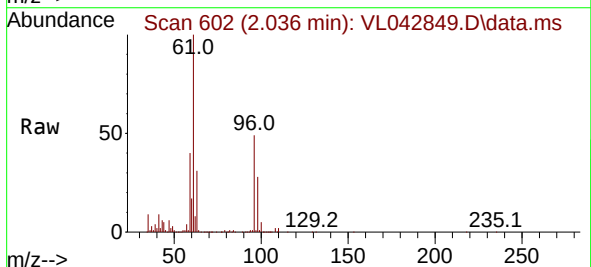
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

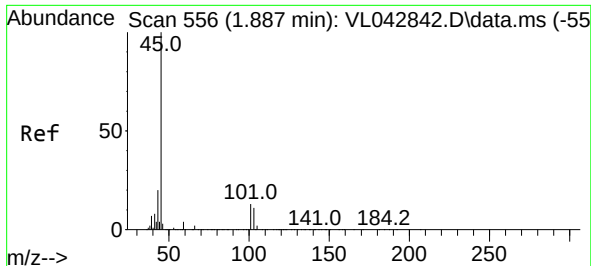
Tgt Ion: 59 Resp: 166457
 Ion Ratio Lower Upper
 59 100
 57 10.7 9.0 13.4



#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

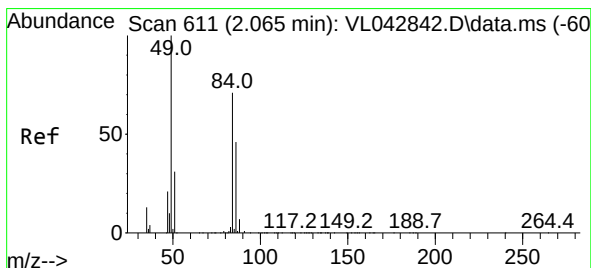
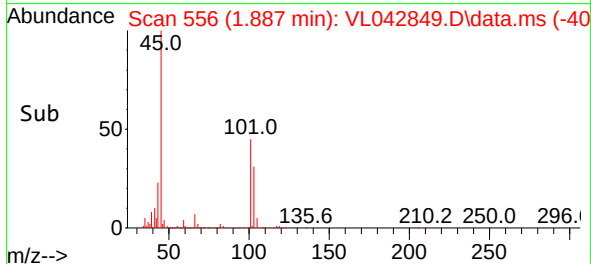
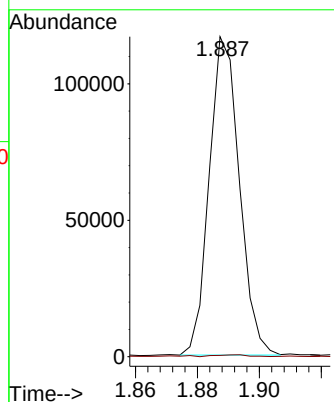
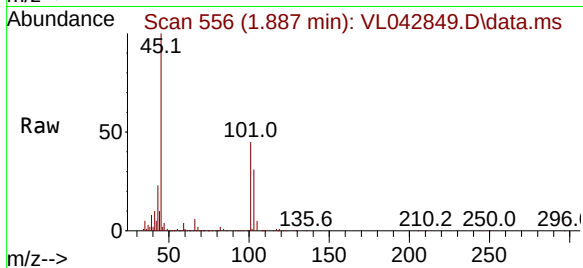




#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

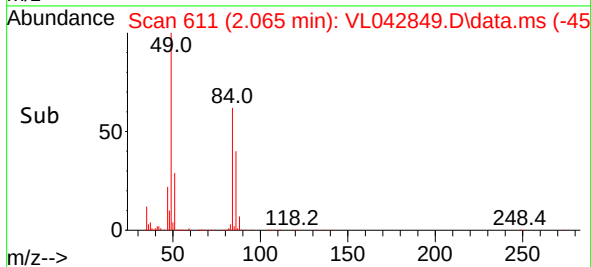
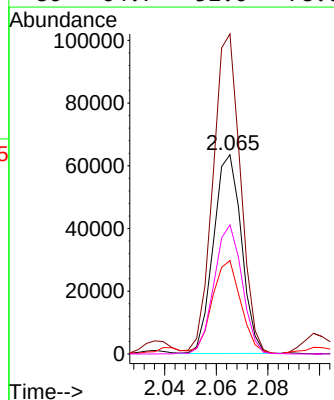
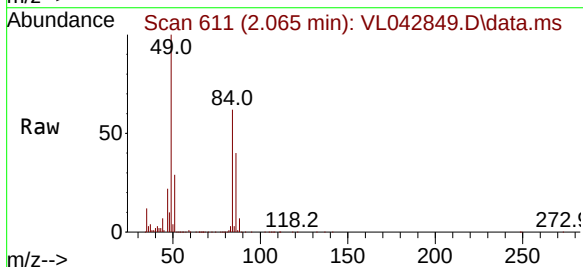
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

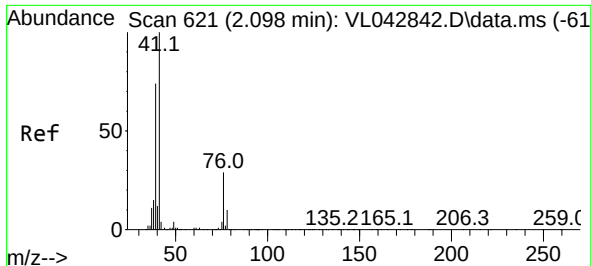
Tgt Ion: 45 Resp: 78832
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1



#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

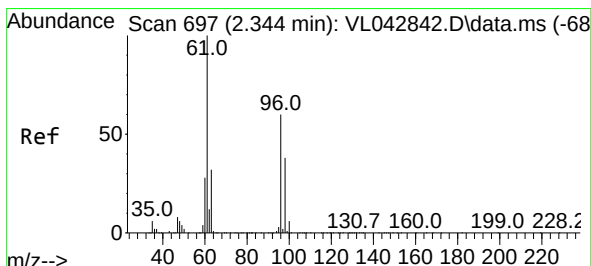
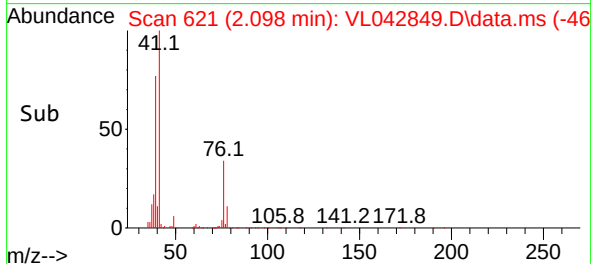
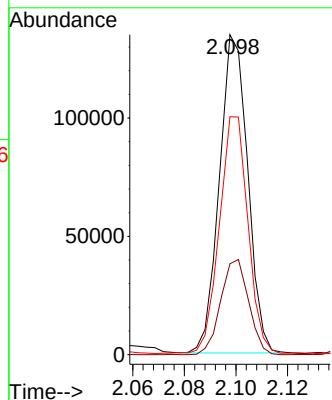
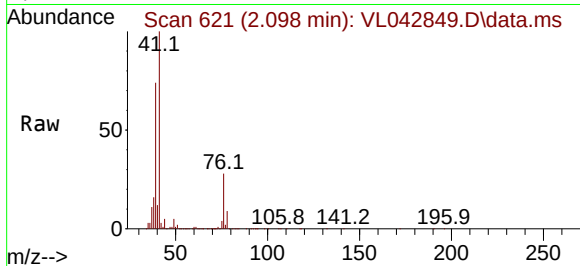




#21
 Allyl Chloride
 Concen: 8.956 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

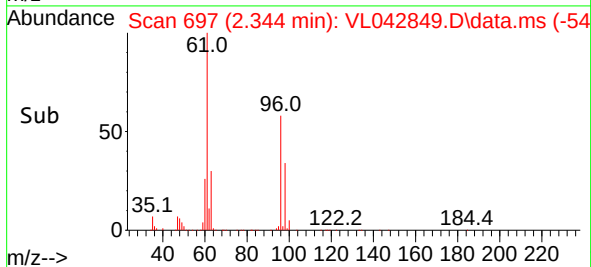
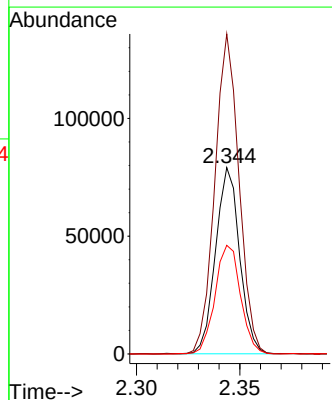
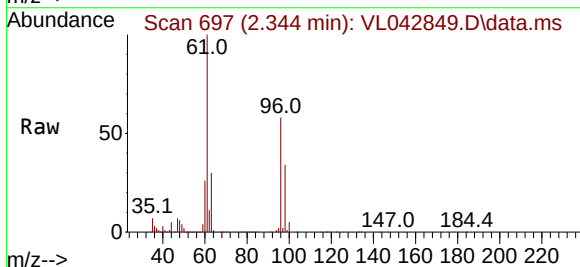
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

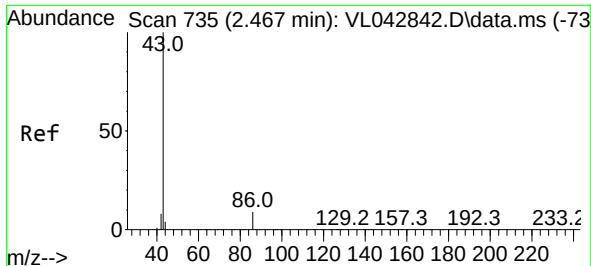
Tgt Ion: 41 Resp: 102514
 Ion Ratio Lower Upper
 41 100
 76 29.5 23.9 35.9
 39 76.1 57.8 86.6



#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



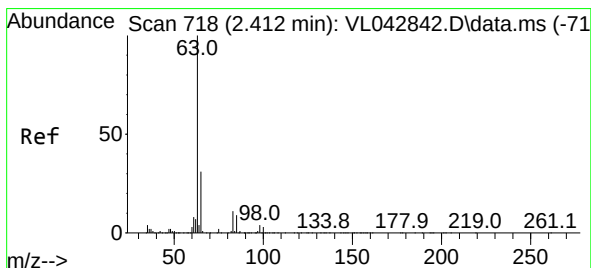
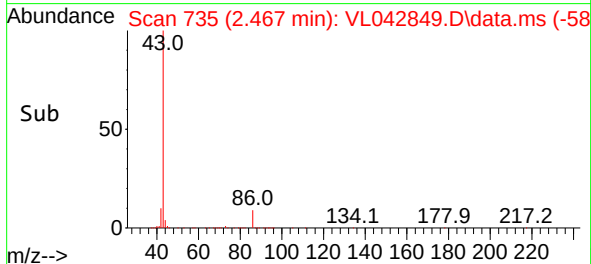
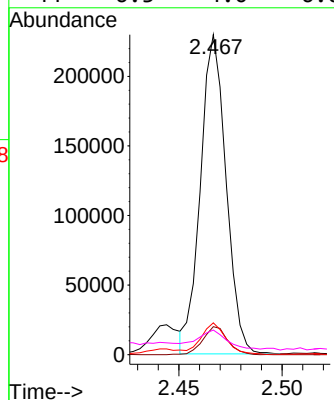
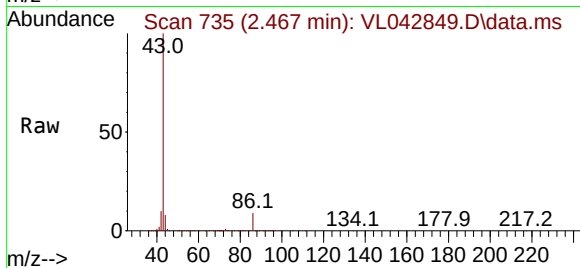


#23
 Vinyl Acetate
 Concen: 8.891 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL081325

Tgt Ion: 43 Resp: 198083

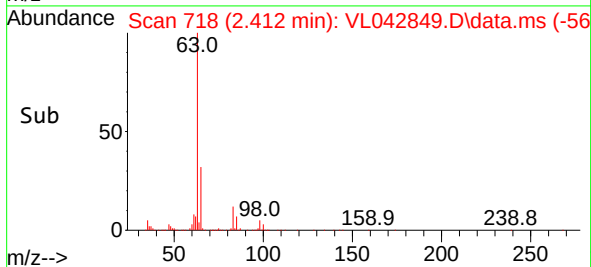
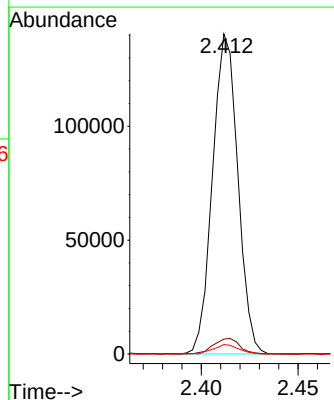
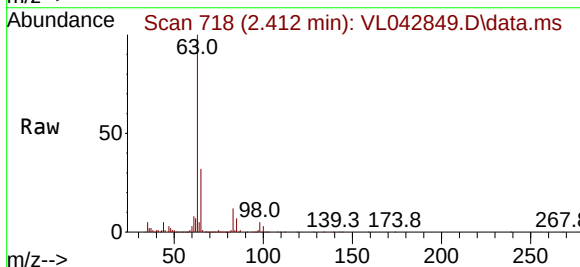
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.8	7.0	10.6
44	6.3	4.0	6.0

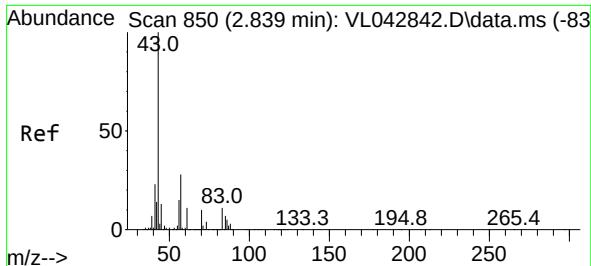


#24
 1,1-Dichloroethane
 Concen: 8.903 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

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

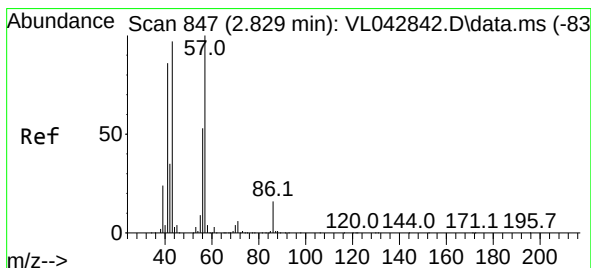
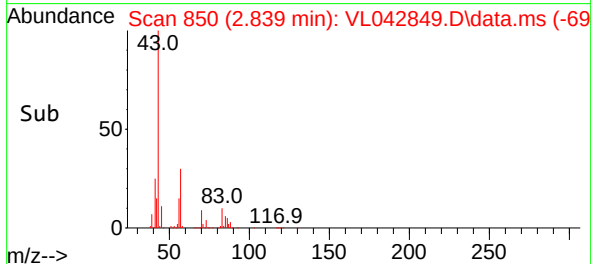
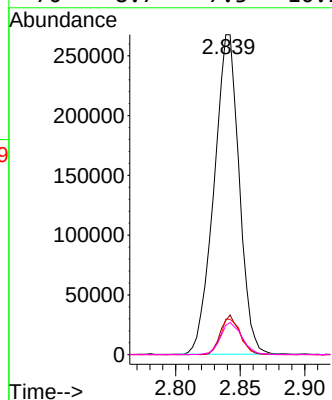
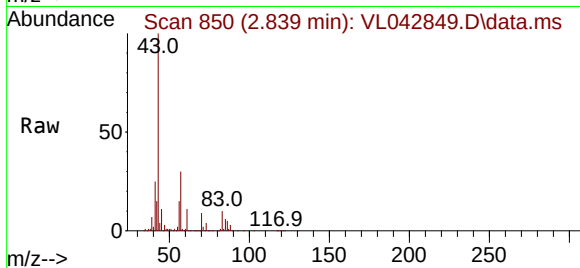




#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

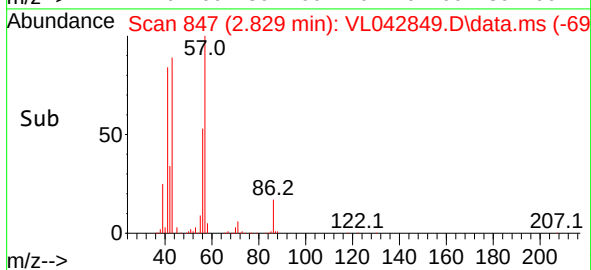
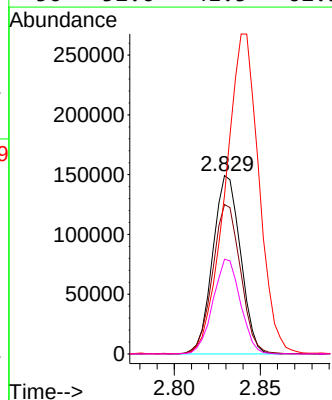
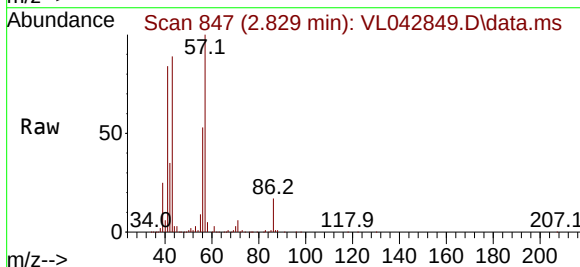
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

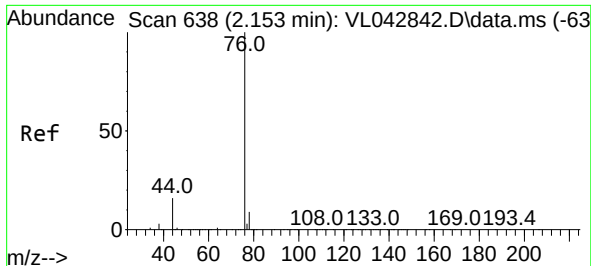
Tgt Ion:	43	Resp:	362325
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.1	7.4	11.2
70	8.7	7.3	10.9



#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

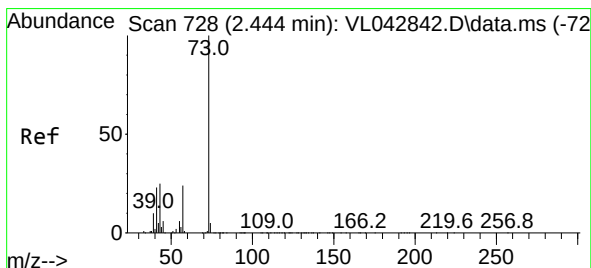
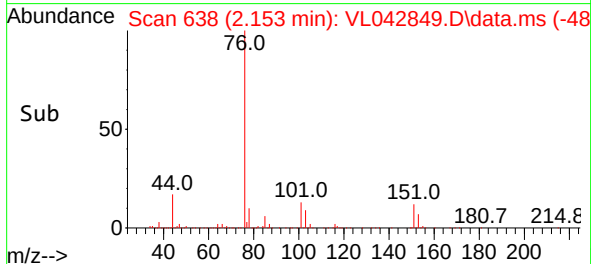
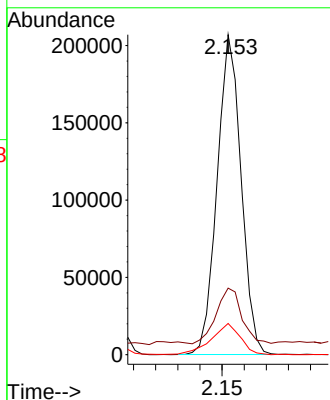
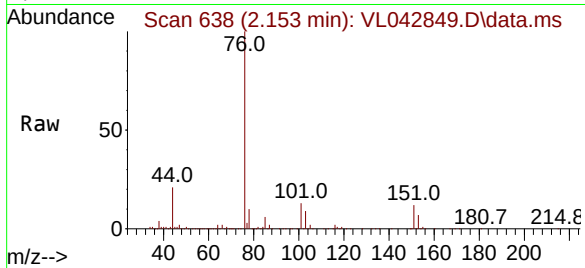




#27
Carbon Disulfide
Concen: 8.841 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

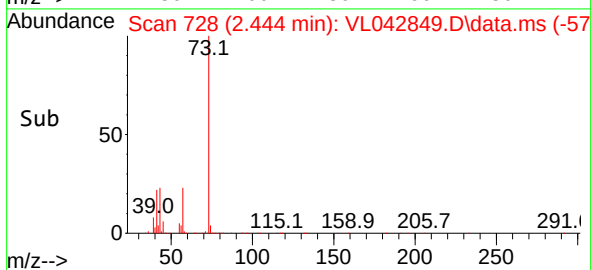
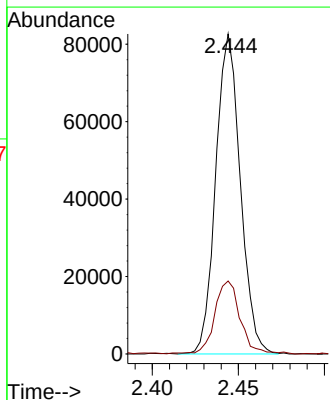
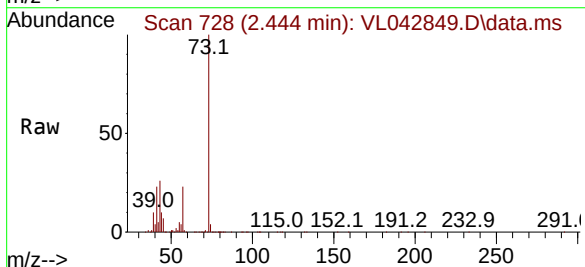
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

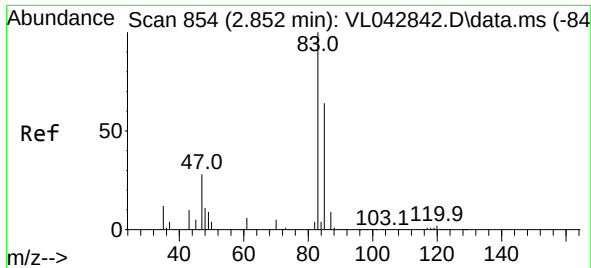
Tgt Ion: 76 Resp: 155729
Ion Ratio Lower Upper
76 100
44 19.2 15.9 23.9
78 11.9 9.5 14.3



#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

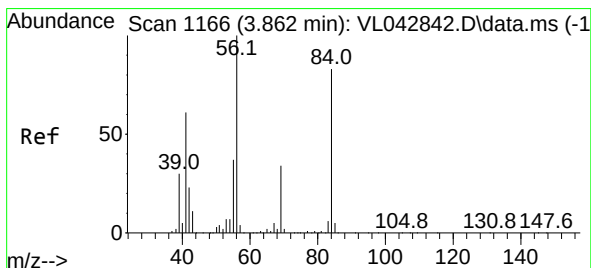
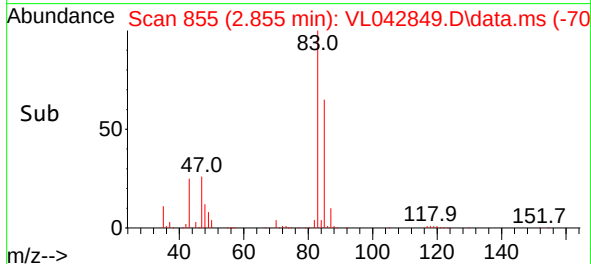
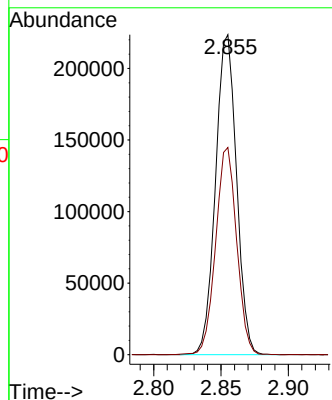
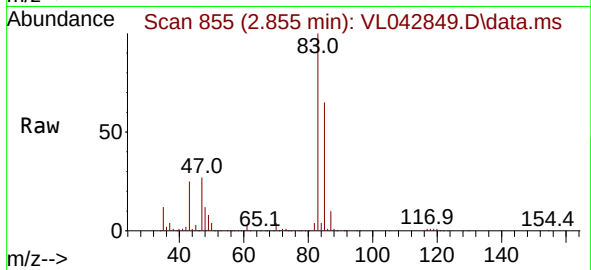




#29
Chloroform
Concen: 9.377 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

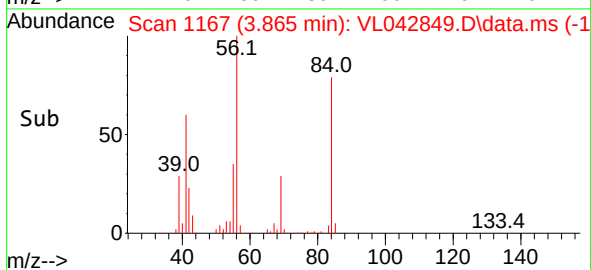
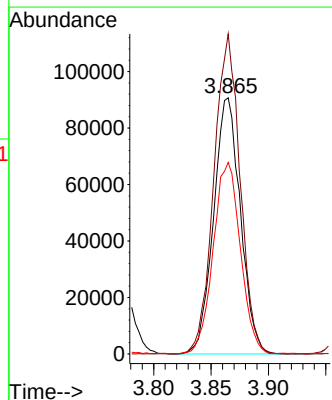
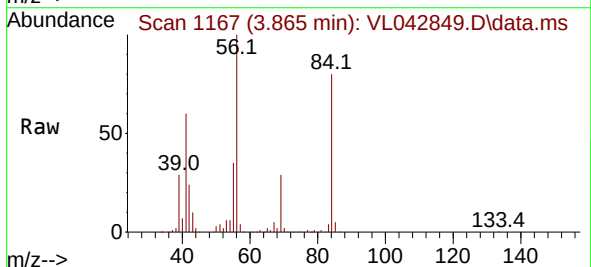
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

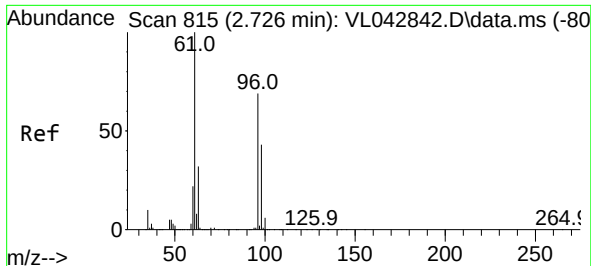
Tgt Ion: 83 Resp: 242320
Ion Ratio Lower Upper
83 100
85 64.8 51.1 76.7



#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

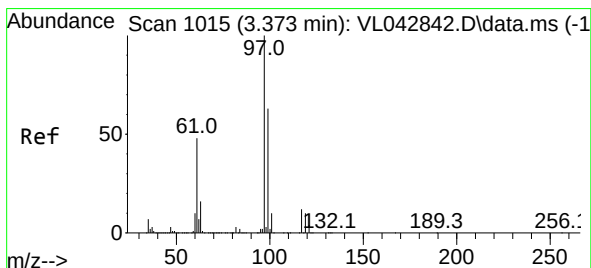
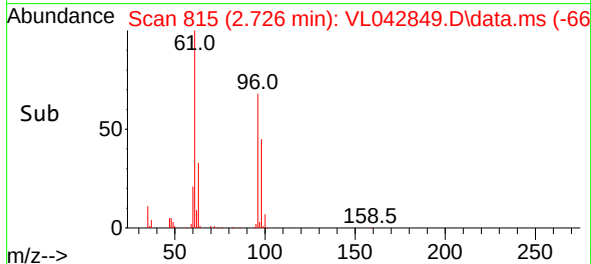
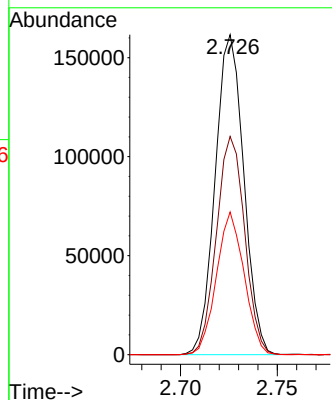
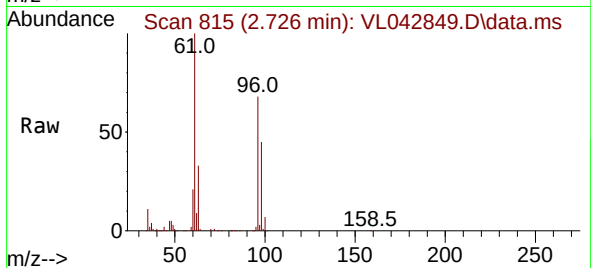




#31
 cis-1,2-Dichloroethene
 Concen: 9.196 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

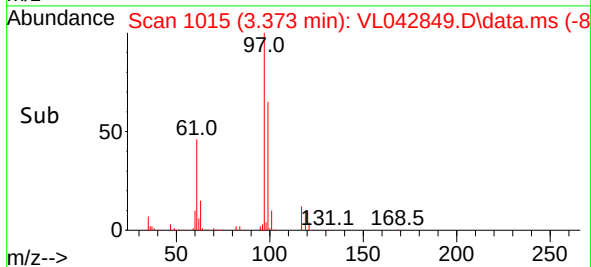
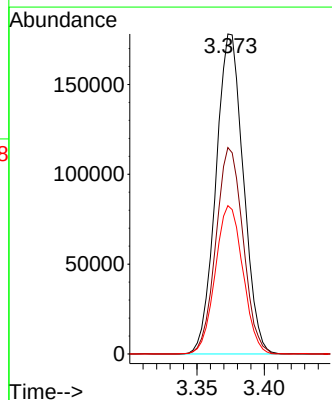
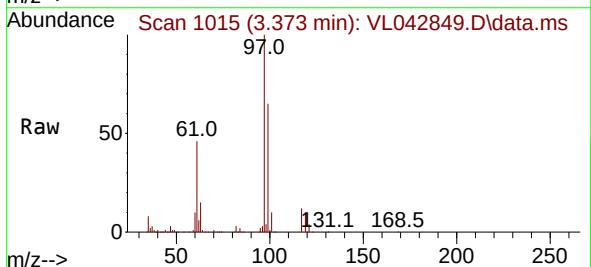
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

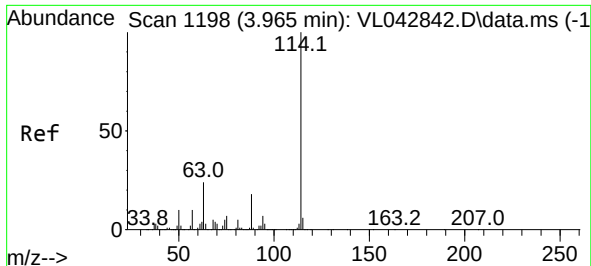
Tgt Ion: 61 Resp: 166268
 Ion Ratio Lower Upper
 61 100
 96 68.2 55.0 82.6
 98 44.5 34.3 51.5



#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_L

ClientSampleId :

ICVVL081325

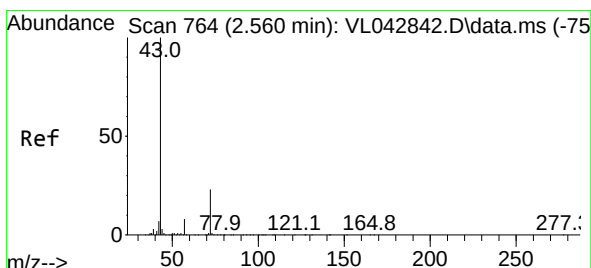
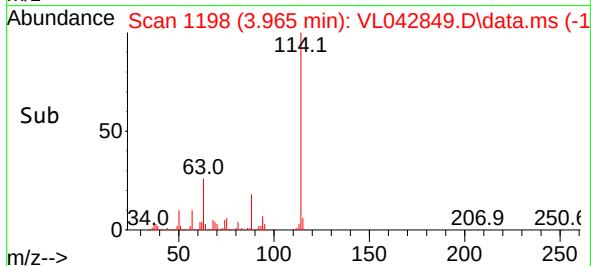
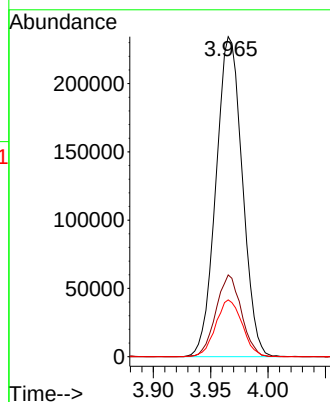
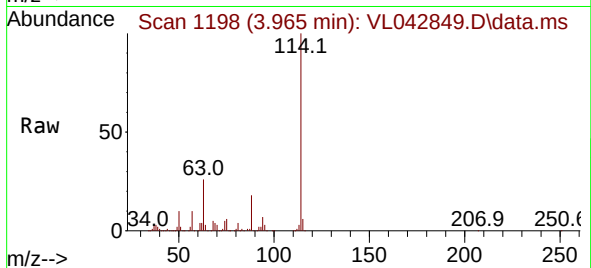
Tgt Ion:114 Resp: 374448

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 9.135 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042849.D

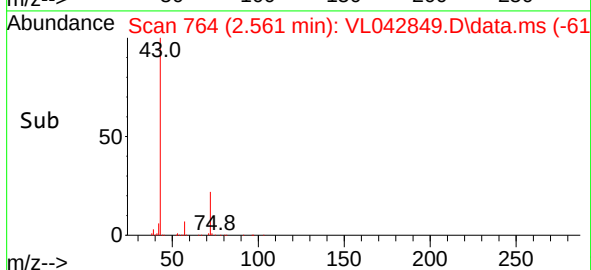
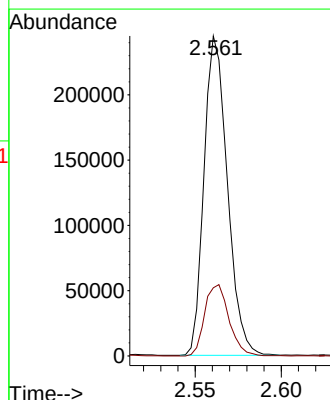
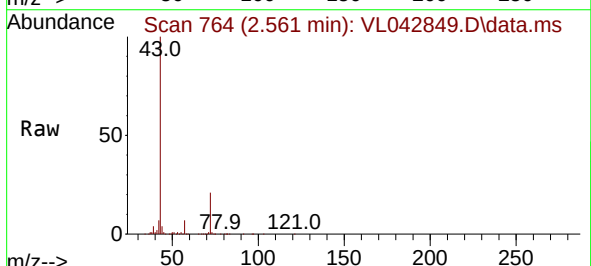
Acq: 13 Aug 2025 12:56

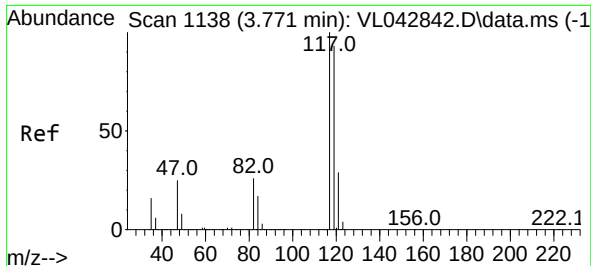
Tgt Ion: 43 Resp: 230961

Ion Ratio Lower Upper

43 100

72 23.4 18.6 28.0

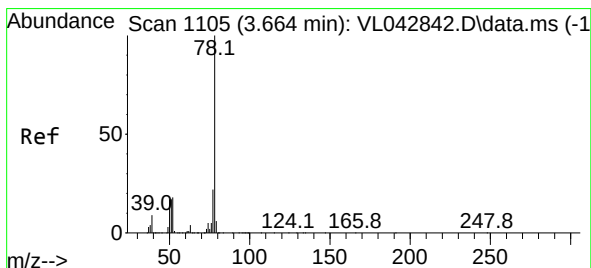
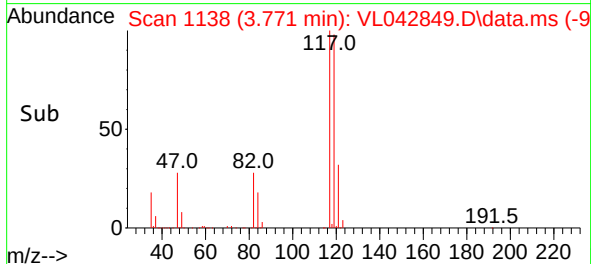
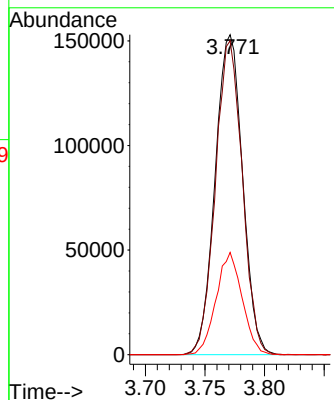
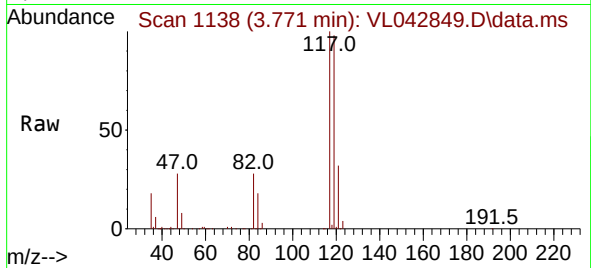




#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

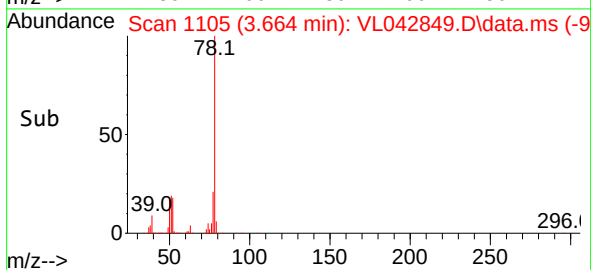
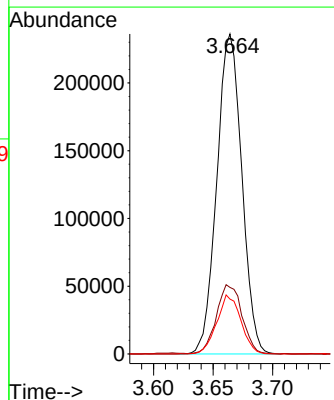
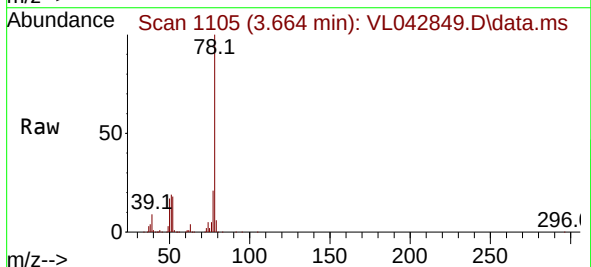
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

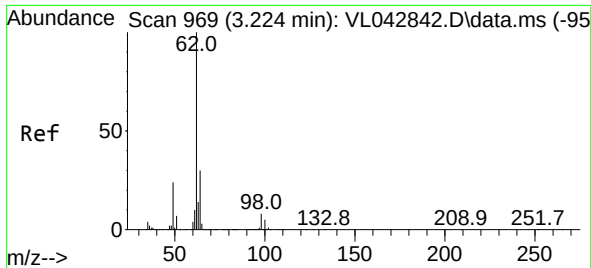
Tgt Ion:117 Resp: 244671
Ion Ratio Lower Upper
117 100
119 98.1 74.7 112.1
121 32.0 23.2 34.8



#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

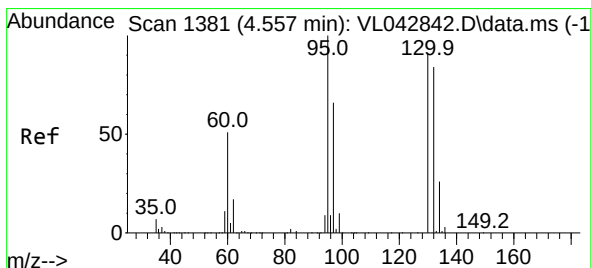
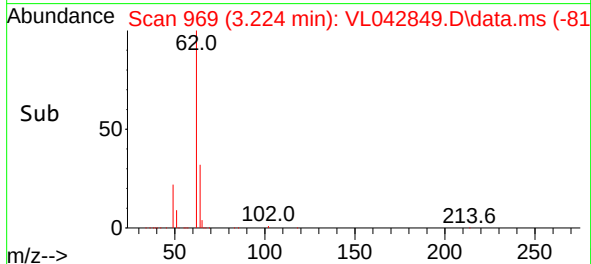
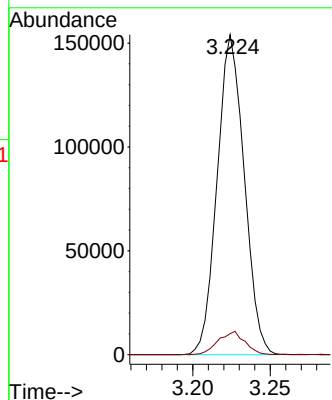
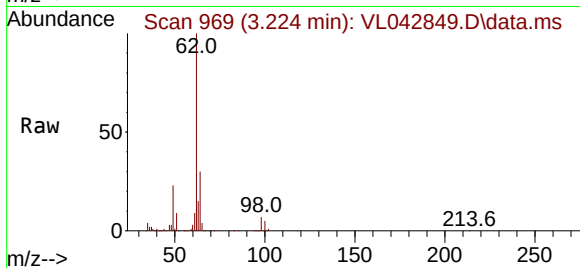




#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

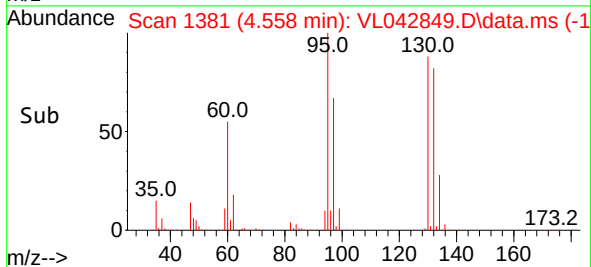
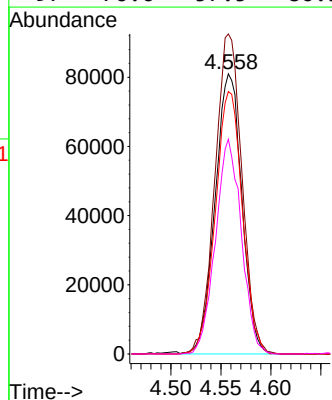
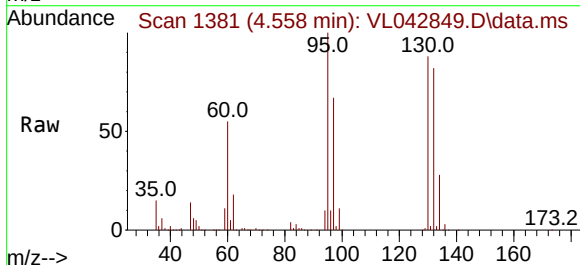
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

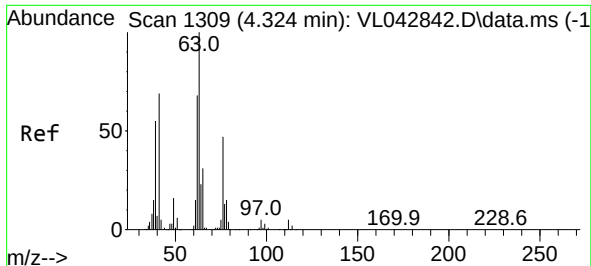
Tgt Ion: 62 Resp: 187160
Ion Ratio Lower Upper
62 100
98 7.2 5.9 8.9



#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

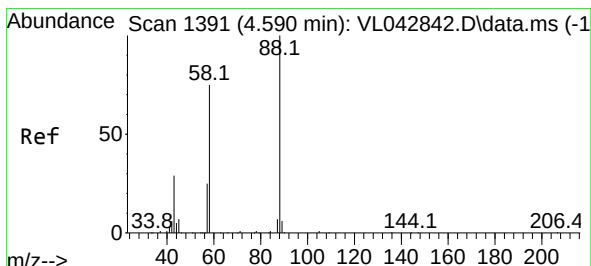
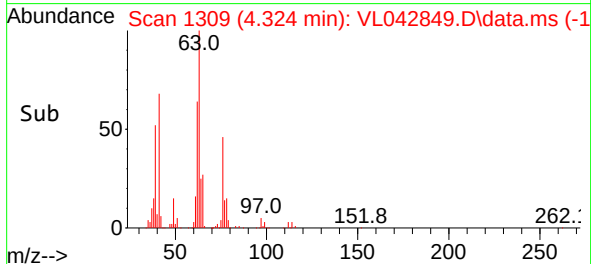
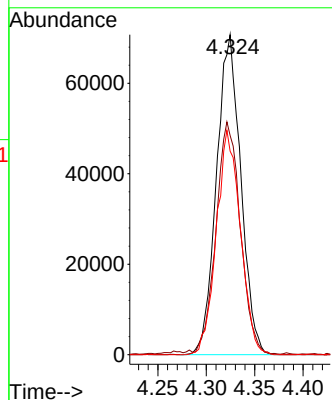
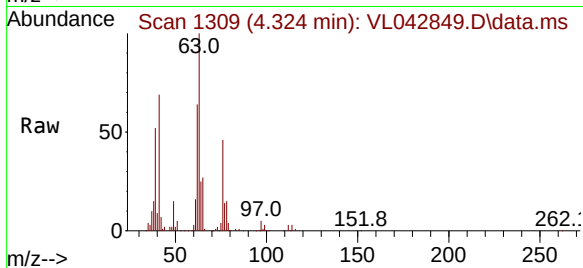
Tgt Ion: 63 Resp: 123566

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

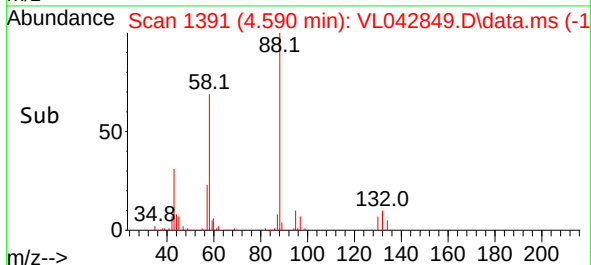
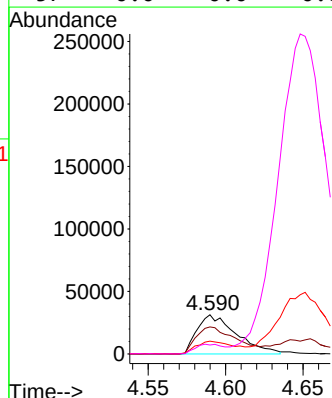
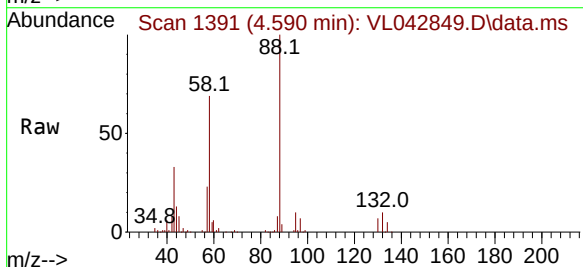
Ion Ratio Lower Upper

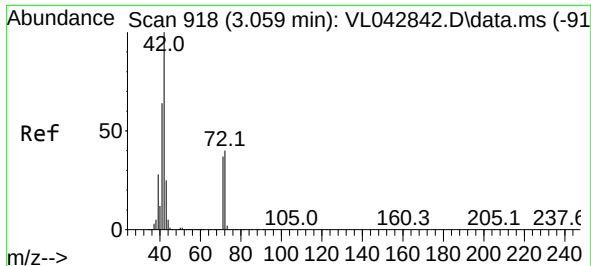
88 100

58 72.7 53.8 80.6

43 32.4 22.8 34.2

57 0.0 0.0 0.0

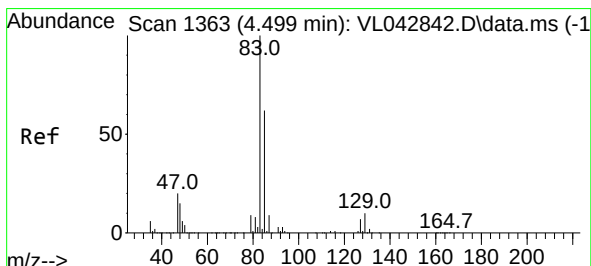
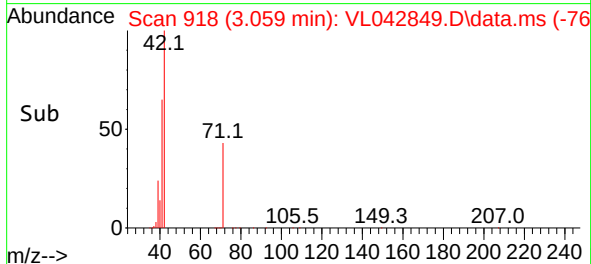
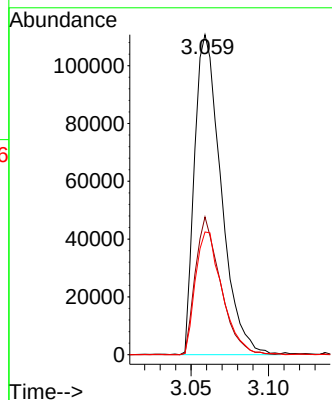
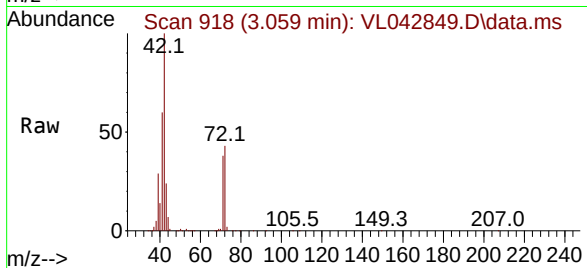




#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

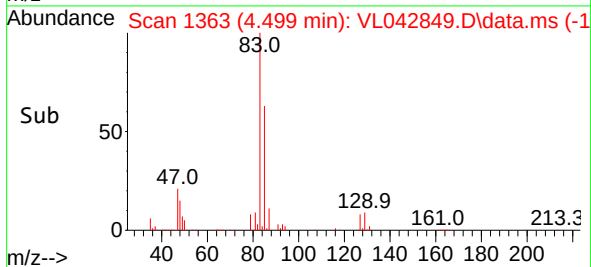
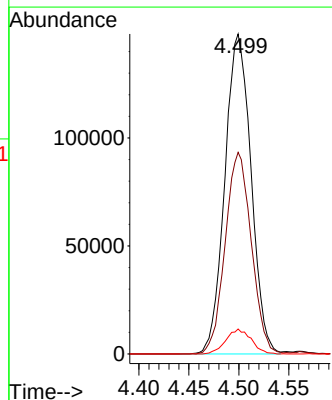
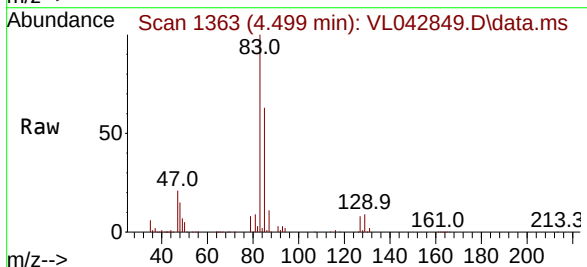
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

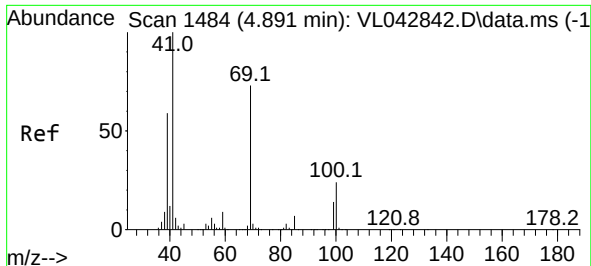
Tgt Ion: 42 Resp: 132108
Ion Ratio Lower Upper
42 100
72 40.8 32.6 48.8
71 39.0 30.0 45.0



#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

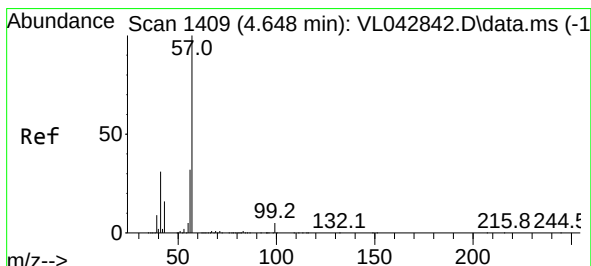
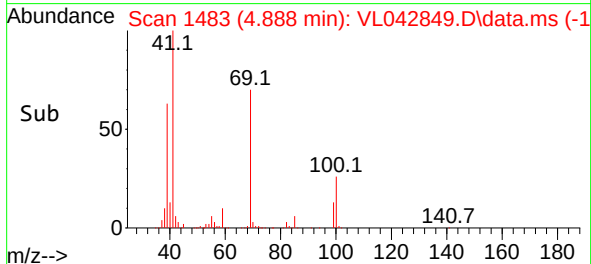
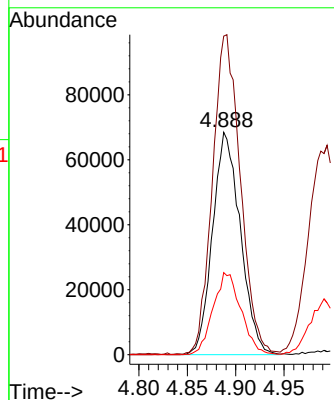
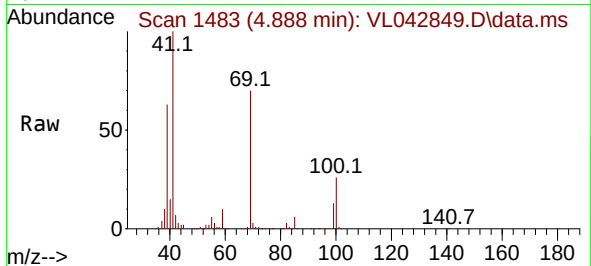




#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

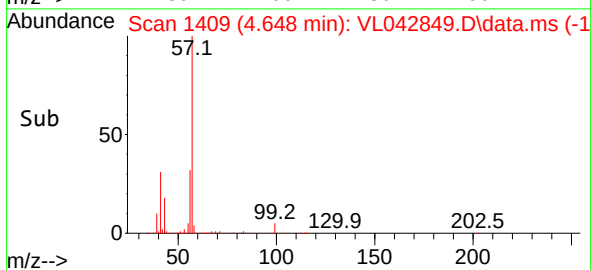
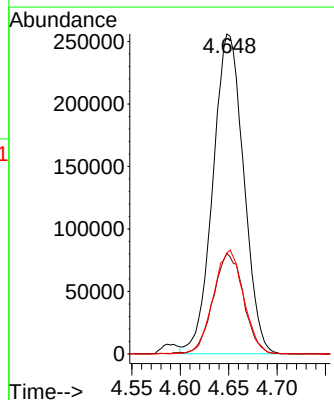
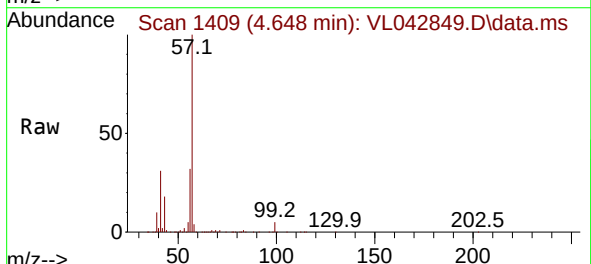
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

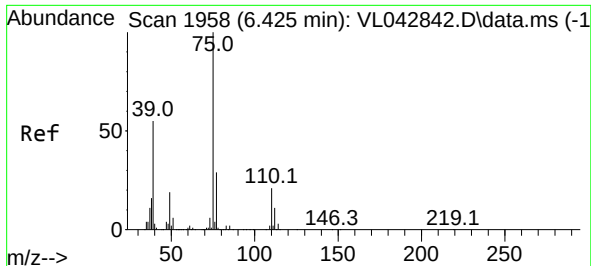
Tgt Ion: 69 Resp: 136329
Ion Ratio Lower Upper
69 100
41 144.9 114.6 172.0
100 37.0 30.2 45.4



#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 :

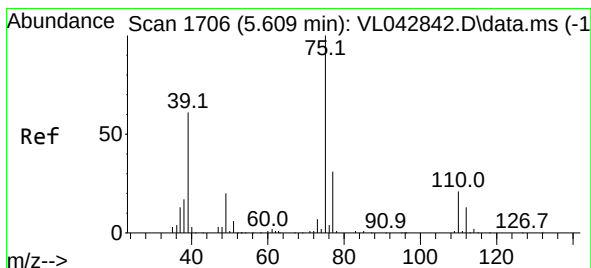
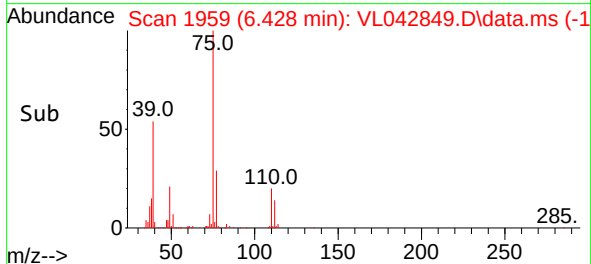
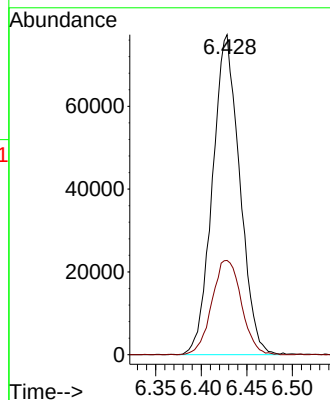
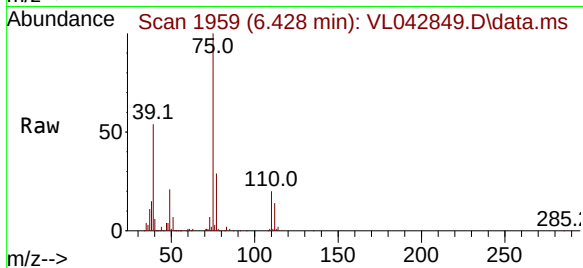
ICVVL081325

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

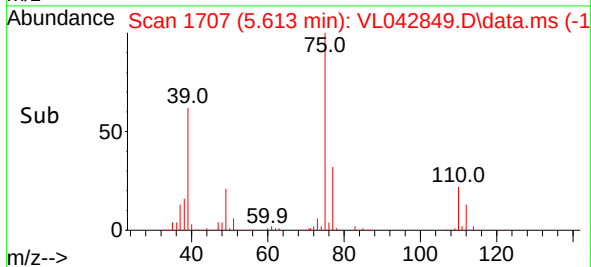
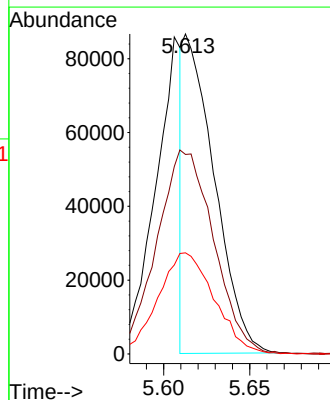
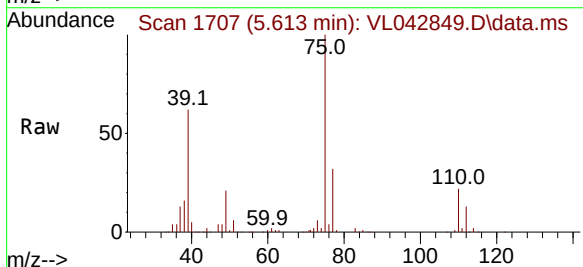
Tgt Ion: 75 Resp: 108009

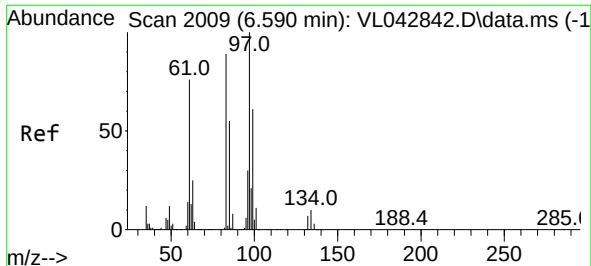
Ion Ratio Lower Upper

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

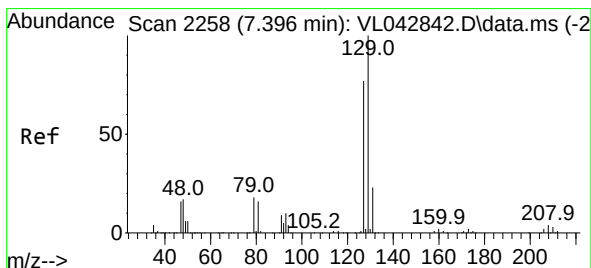
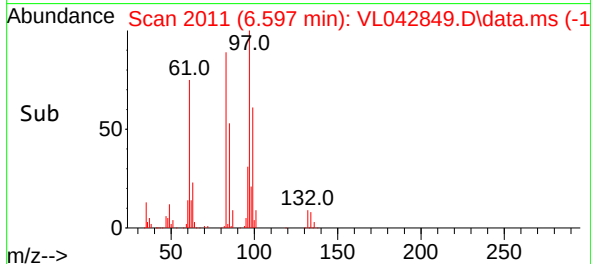
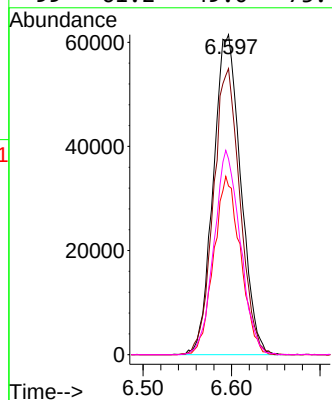
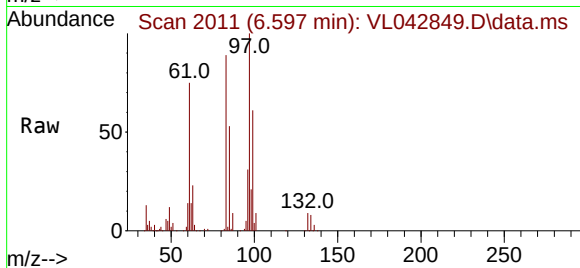
Ion Ratio Lower Upper

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

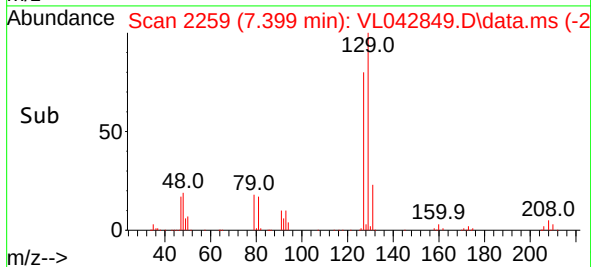
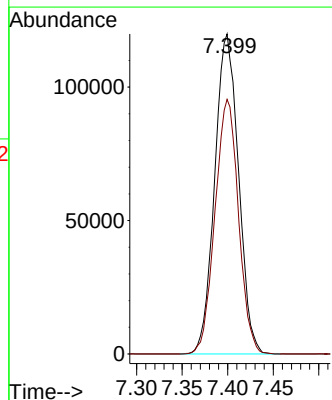
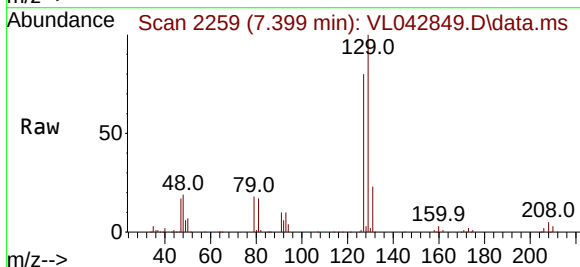
Acq: 13 Aug 2025 12:56

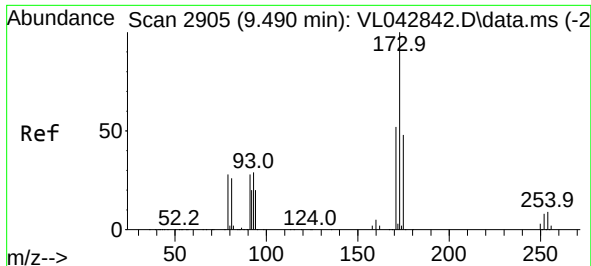
Tgt Ion:129 Resp: 217970

Ion Ratio Lower Upper

129 100

127 78.5 39.4 118.2





#49

Bromoform

Concen: 9.446 ppbv

RT: 9.493 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

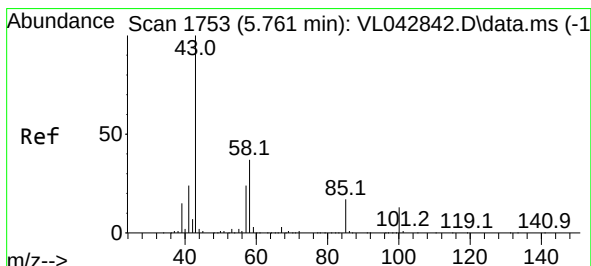
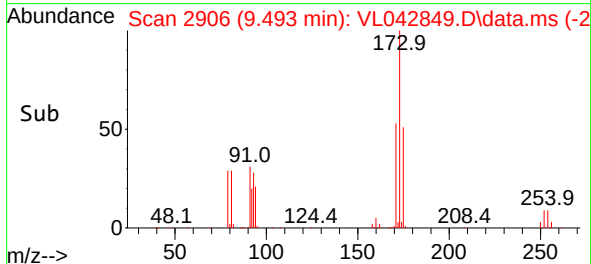
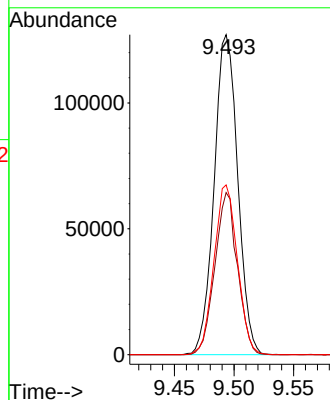
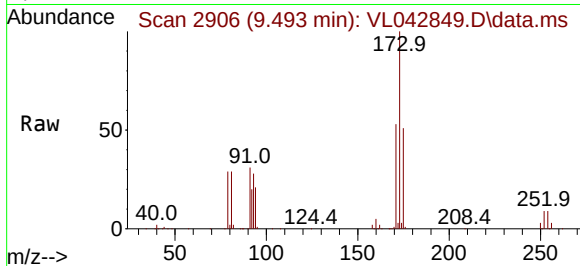
Tgt Ion:173 Resp: 174914

Ion Ratio Lower Upper

173 100

175 48.4 39.2 58.8

171 52.6 41.3 61.9



#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

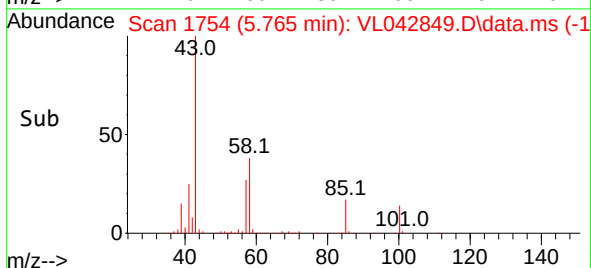
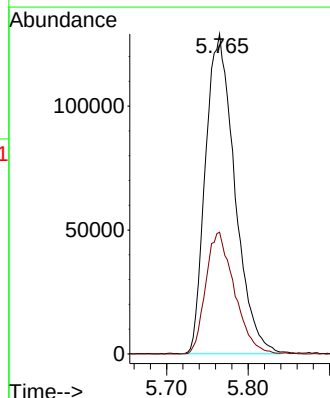
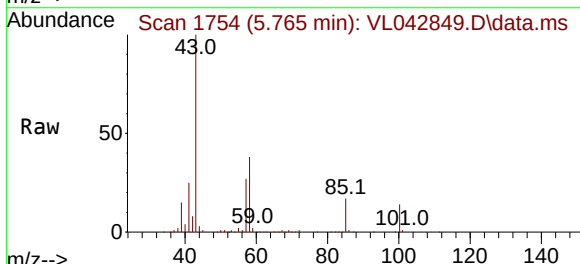
Acq: 13 Aug 2025 12:56

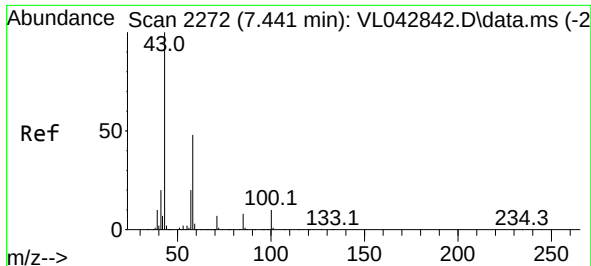
Tgt Ion: 43 Resp: 322264

Ion Ratio Lower Upper

43 100

58 37.3 29.8 44.8

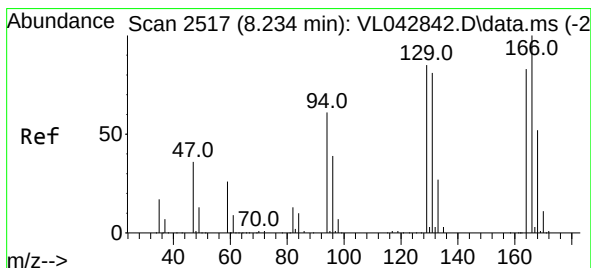
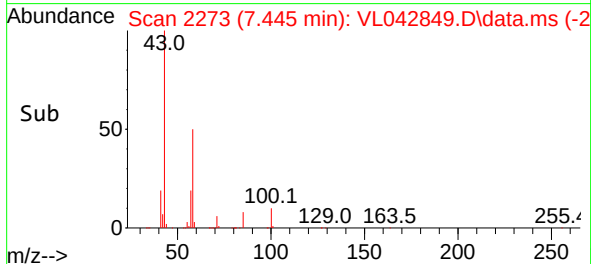
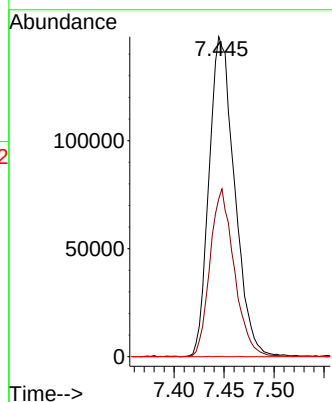
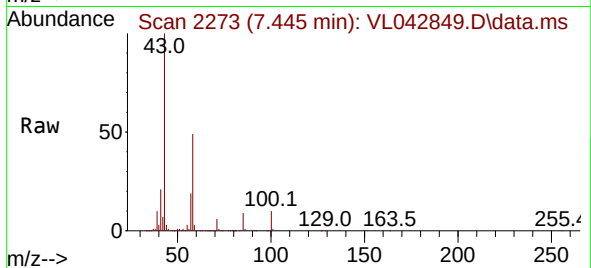




#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

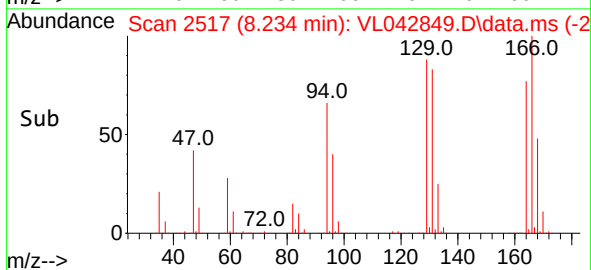
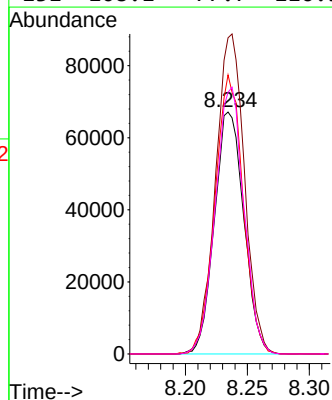
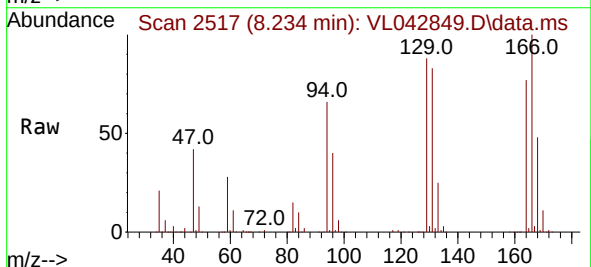
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

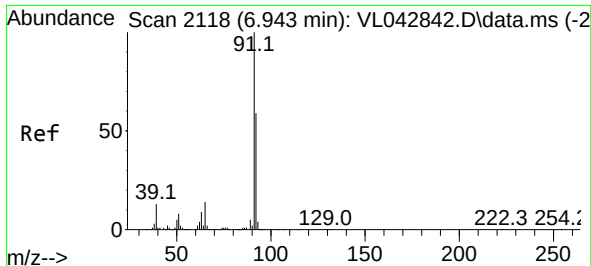
Tgt Ion: 43 Resp: 263321
Ion Ratio Lower Upper
43 100
58 49.9 41.0 61.6
98 0.1 0.1 0.1#



#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

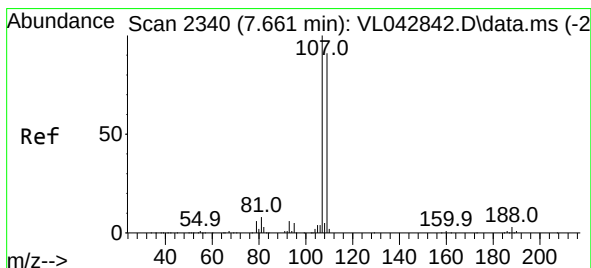
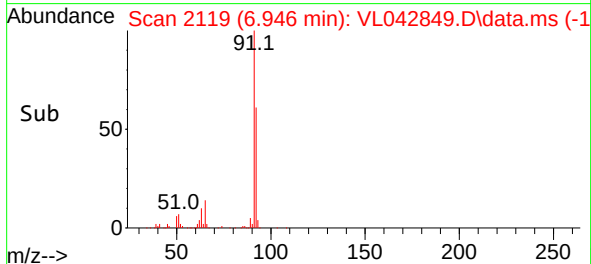
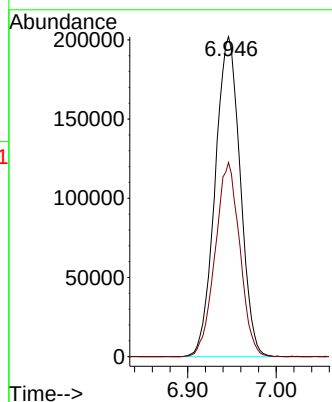
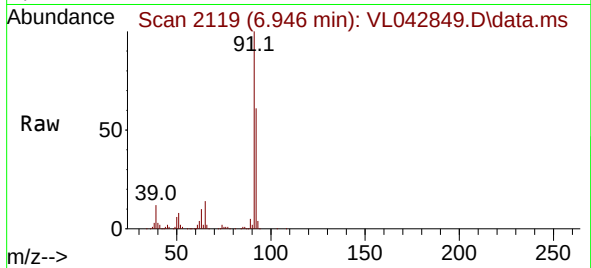




#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

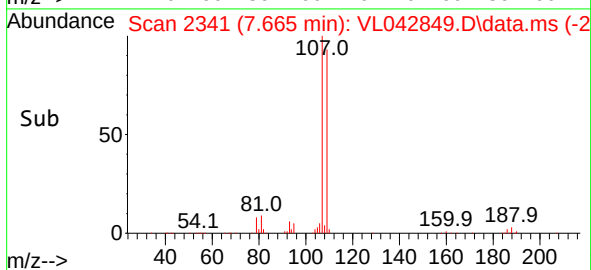
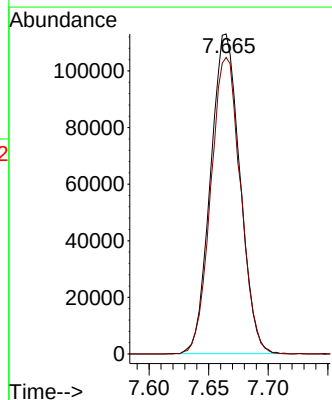
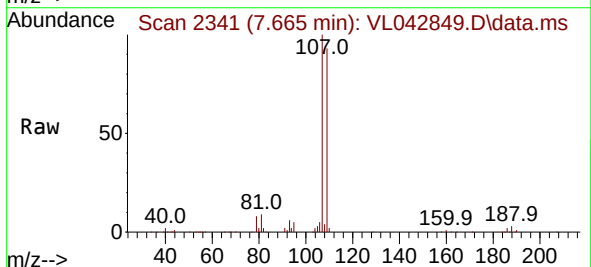
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

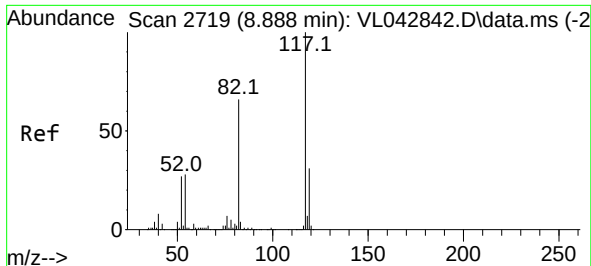
Tgt Ion: 91 Resp: 398138
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#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

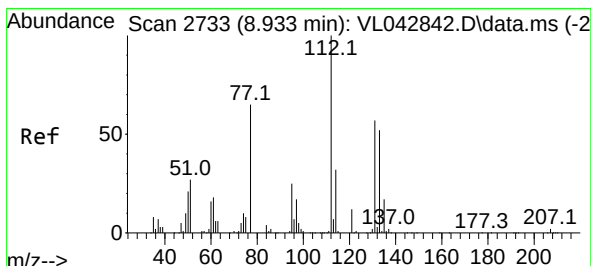
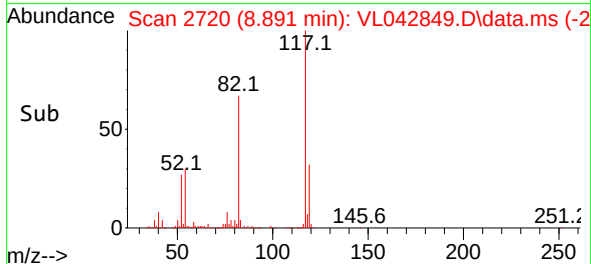
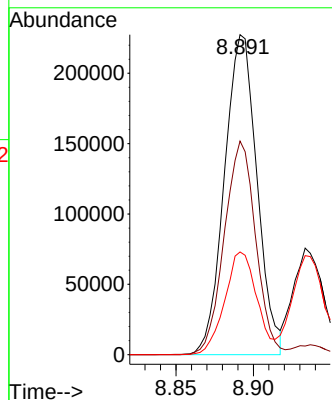
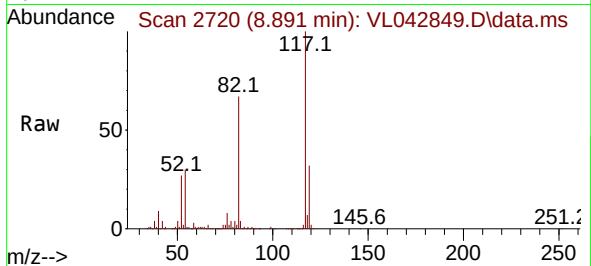




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

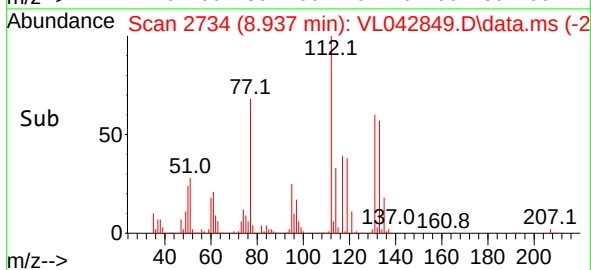
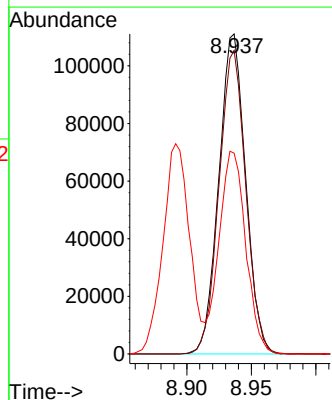
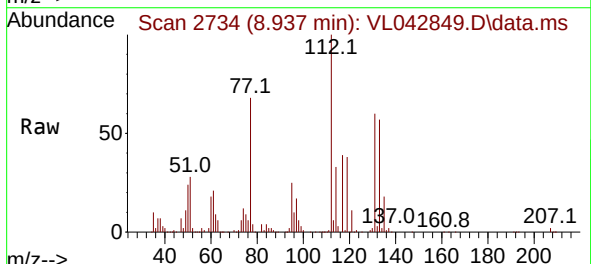
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

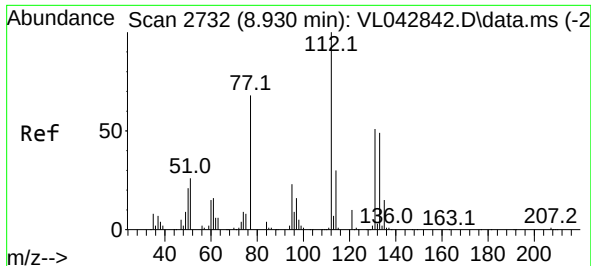
Tgt Ion:117 Resp: 333493
Ion Ratio Lower Upper
117 100
82 67.3 54.6 81.8
119 31.8 25.9 38.9



#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

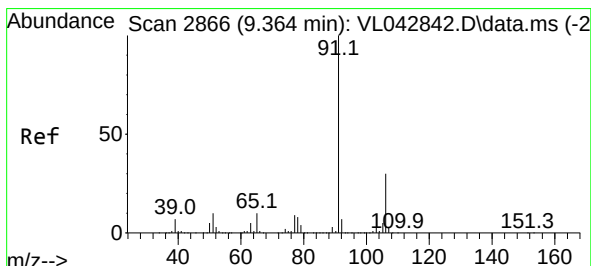
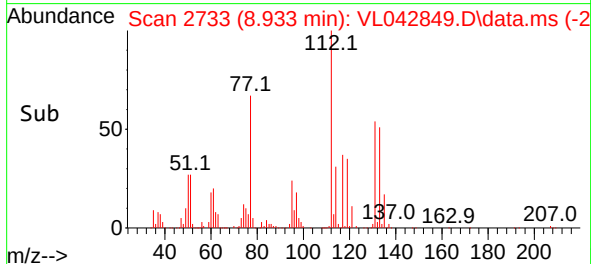
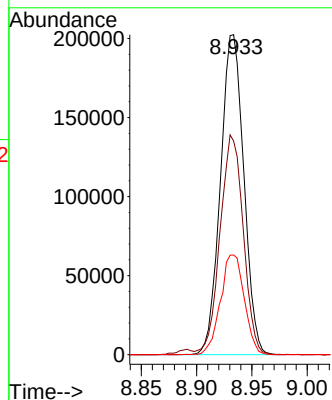
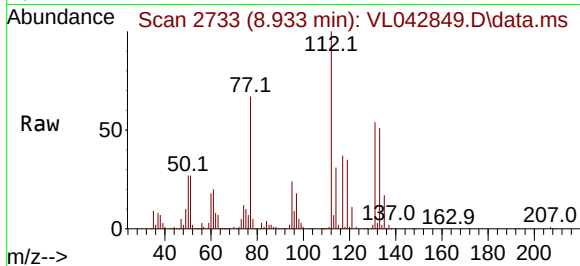




#57
Chlorobenzene
Concen: 9.378 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

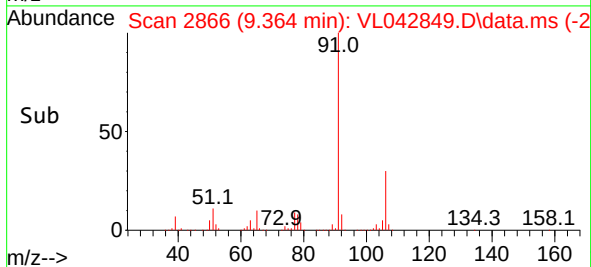
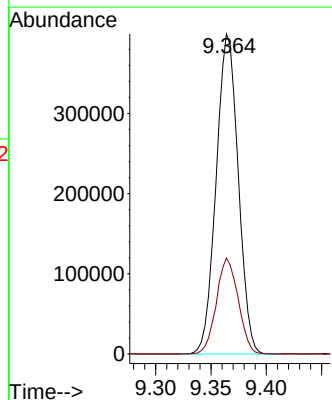
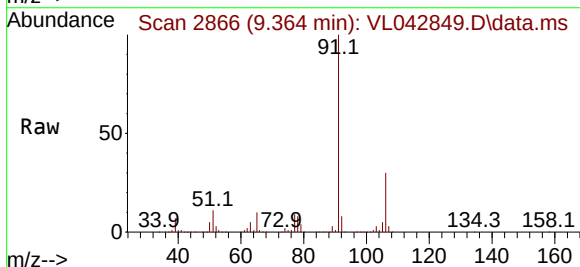
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

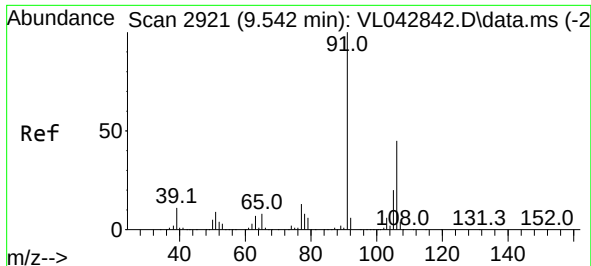
Tgt Ion:112 Resp: 297375
Ion Ratio Lower Upper
112 100
77 66.6 55.5 83.3
114 31.2 27.2 33.2



#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 :

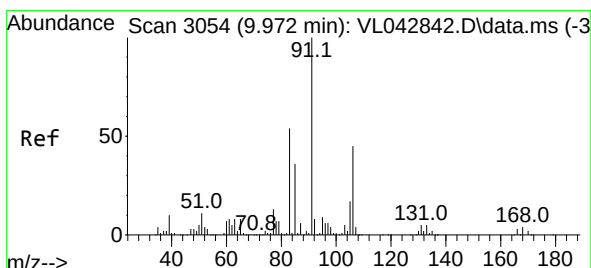
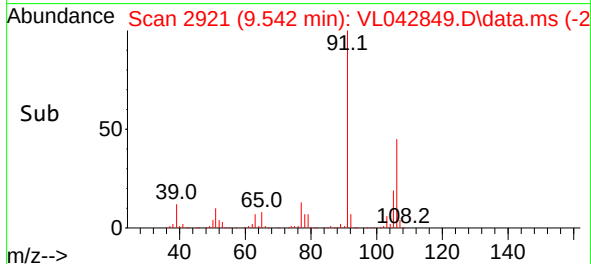
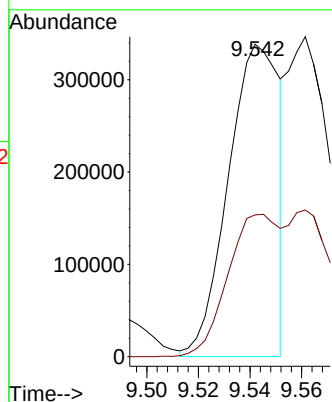
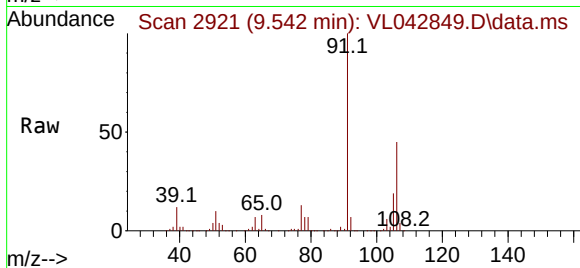
ICVVL081325

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

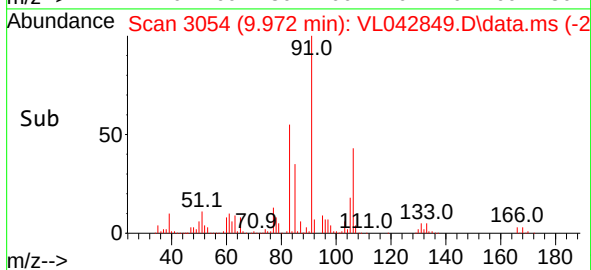
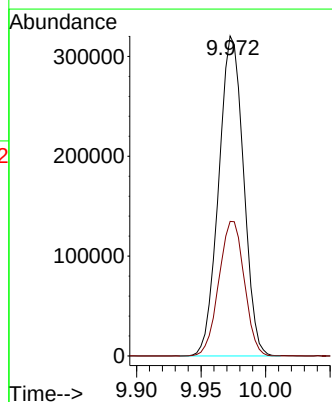
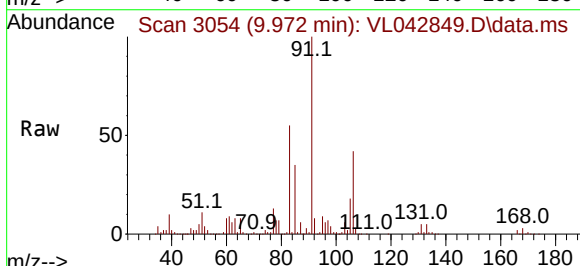
Acq: 13 Aug 2025 12:56

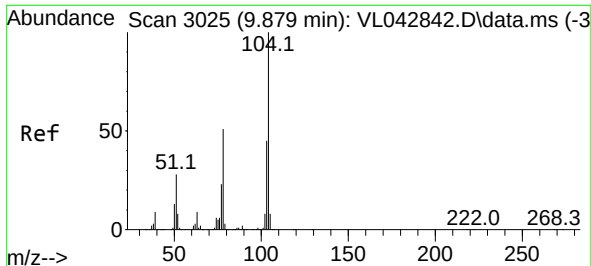
Tgt Ion: 91 Resp: 428721

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

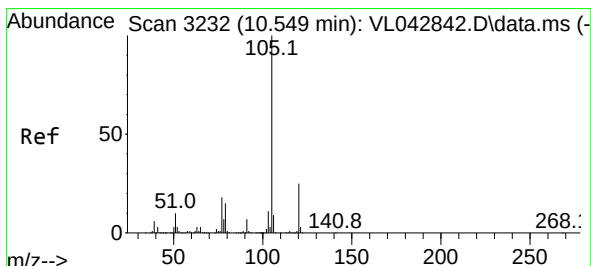
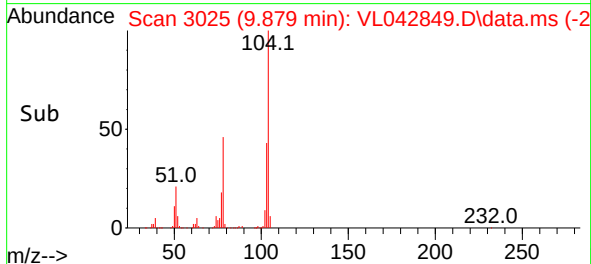
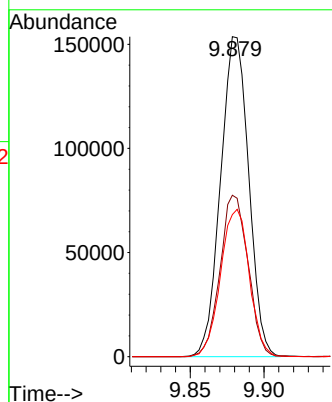
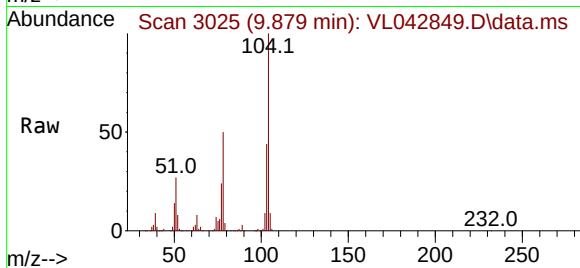




#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

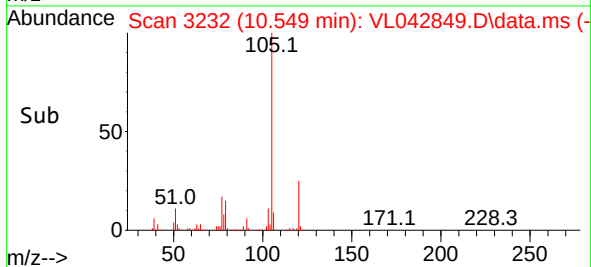
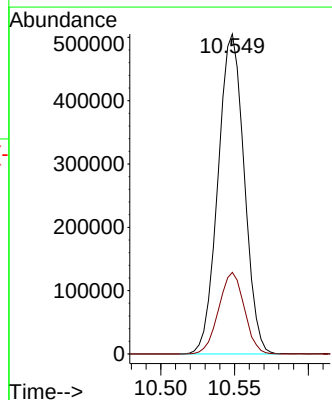
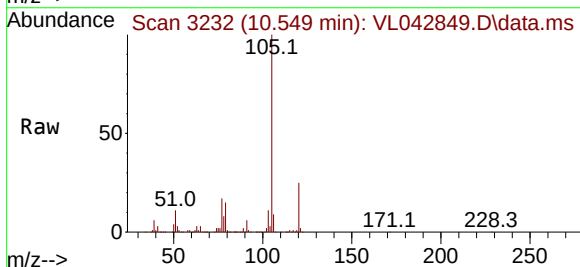
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

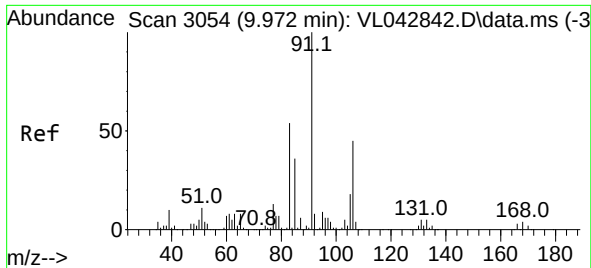
Tgt Ion:104 Resp: 203858
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 47.1 37.7 56.5



#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

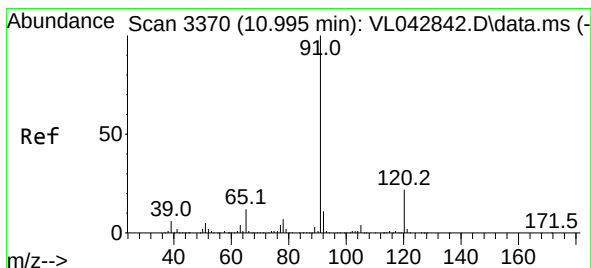
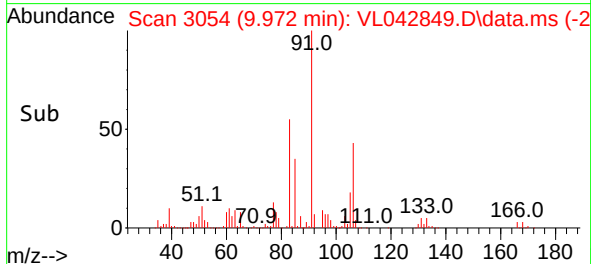
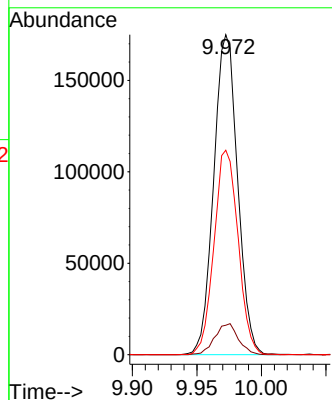
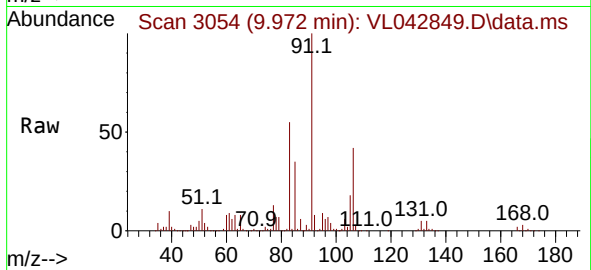




#63
1,1,2,2-Tetrachloroethane
Concen: 8.826 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

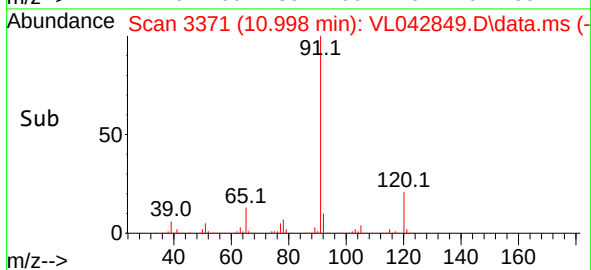
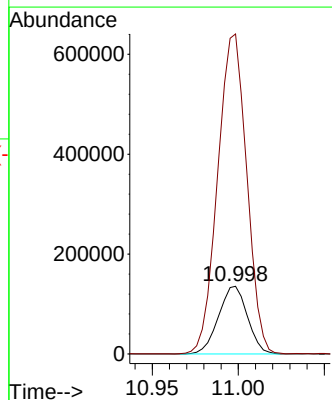
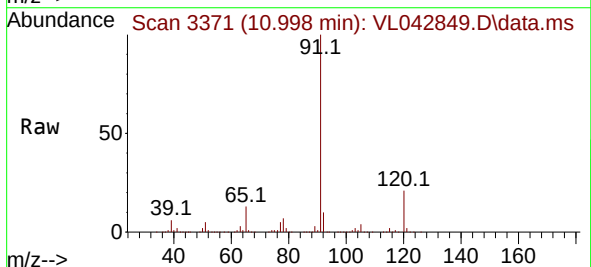
Instrument : MSVOA_1
ClientSampleId : ICVVL081325

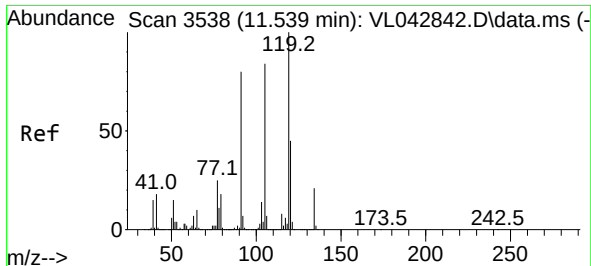
Tgt Ion: 83 Resp: 225237
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.4 32.3 96.8



#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

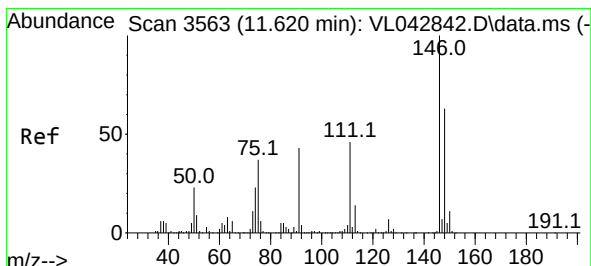
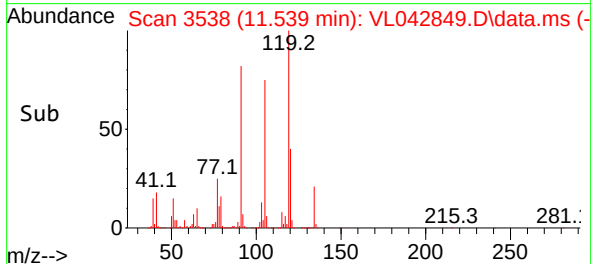
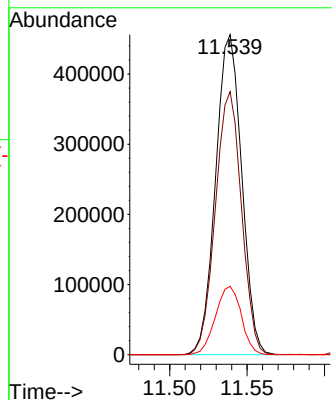
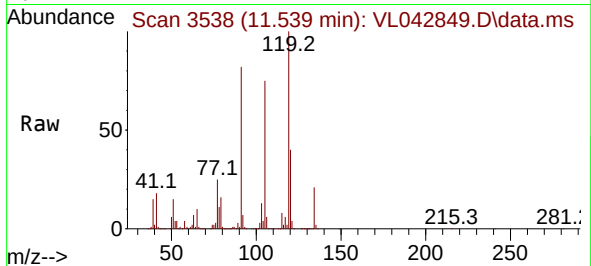




#65
tert-Butylbenzene
Concen: 8.946 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

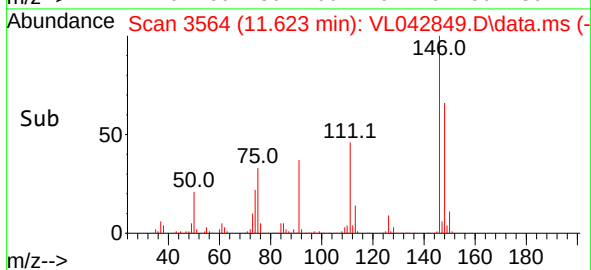
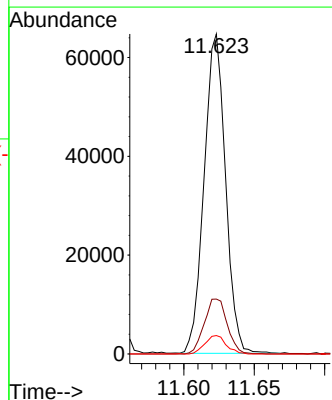
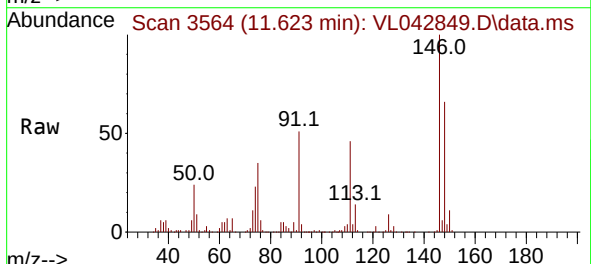
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

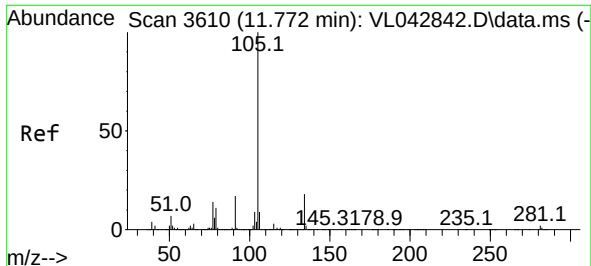
Tgt Ion:119 Resp: 534795
Ion Ratio Lower Upper
119 100
91 82.2 63.9 95.9
134 21.1 17.0 25.4



#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

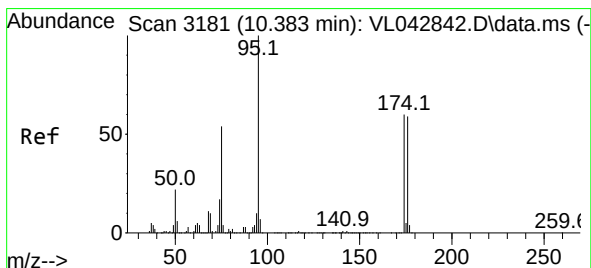
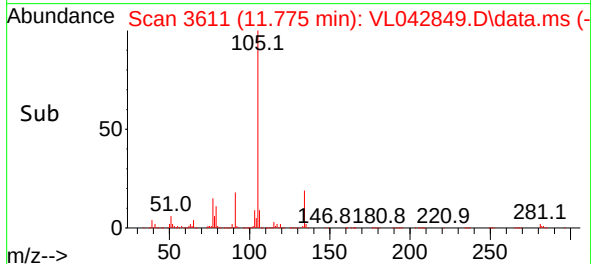
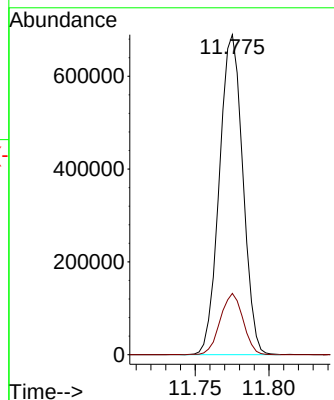
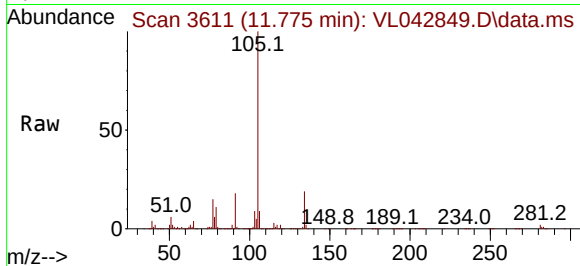




#67
 sec-Butylbenzene
 Concen: 9.088 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

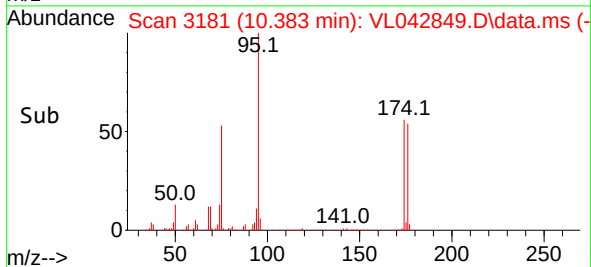
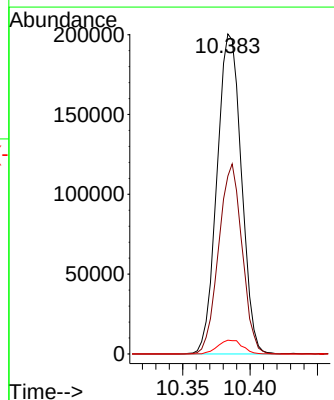
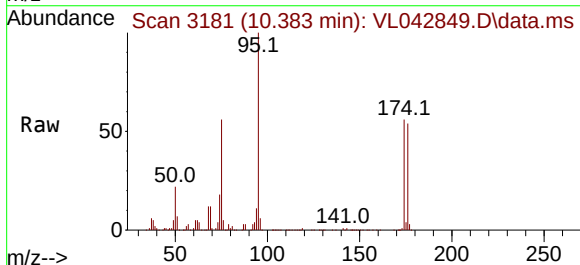
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL081325

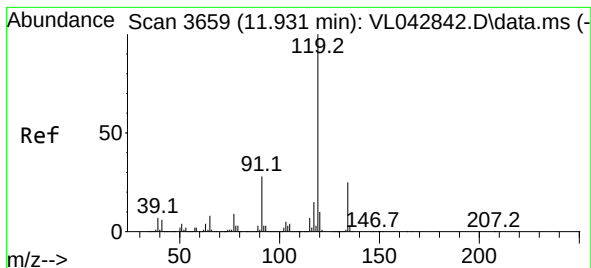
Tgt Ion:105 Resp: 762602
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3



#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

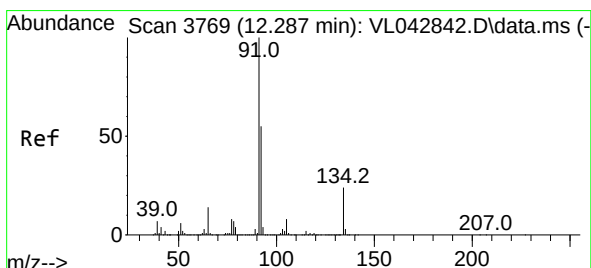
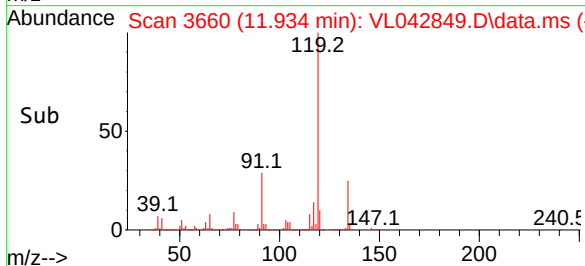
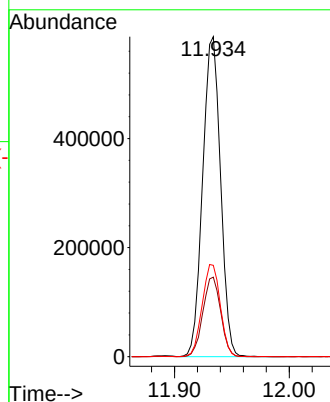
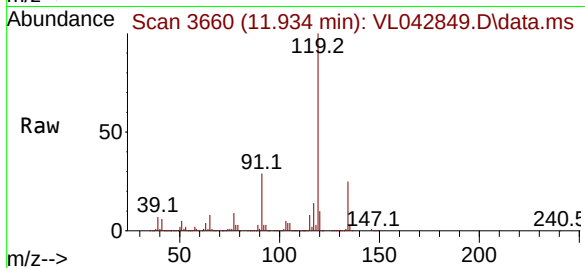
Tgt Ion:119 Resp: 634670

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

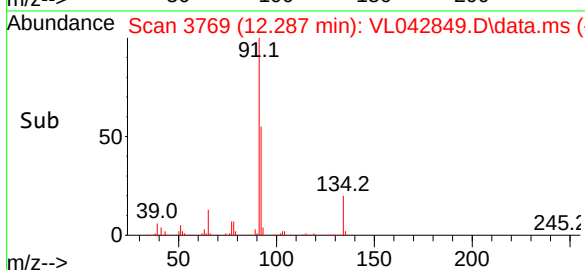
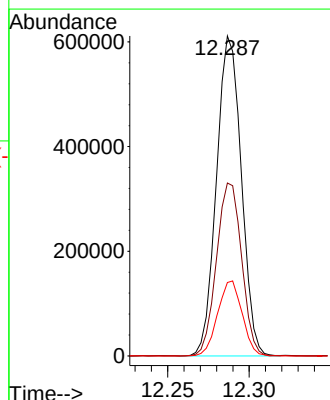
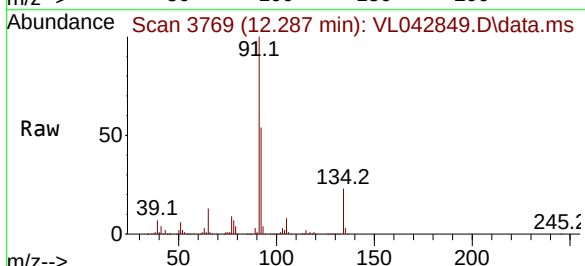
Tgt Ion: 91 Resp: 647453

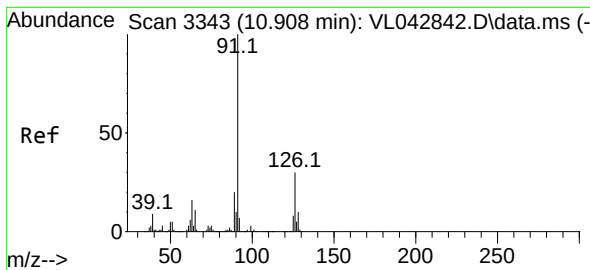
Ion Ratio Lower Upper

91 100

92 54.8 44.6 66.8

134 23.1 19.0 28.4

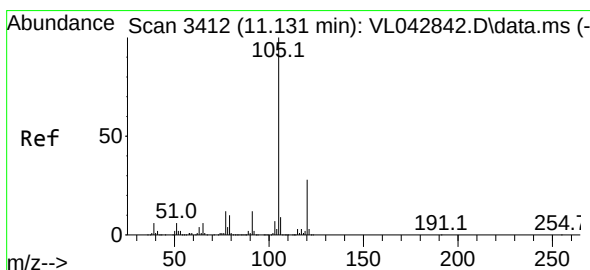
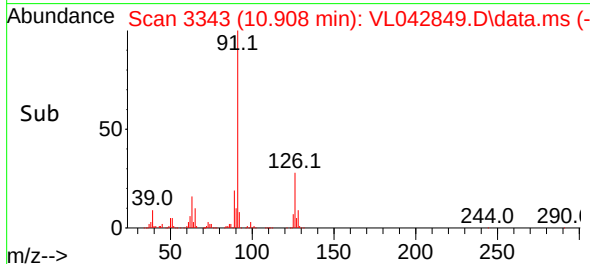
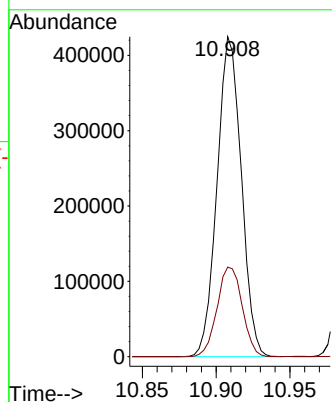
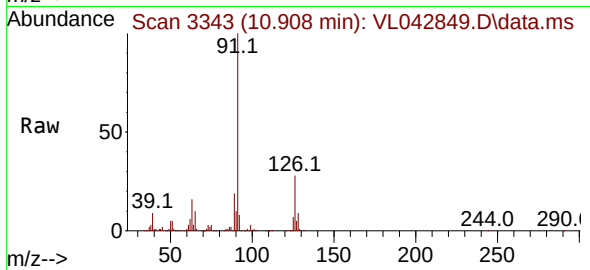




#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

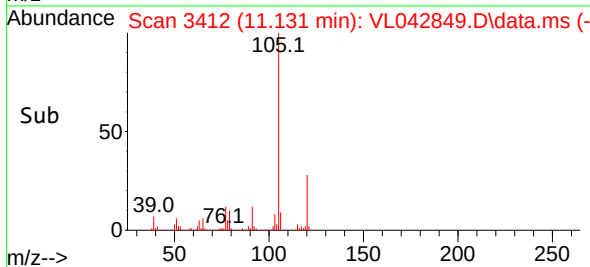
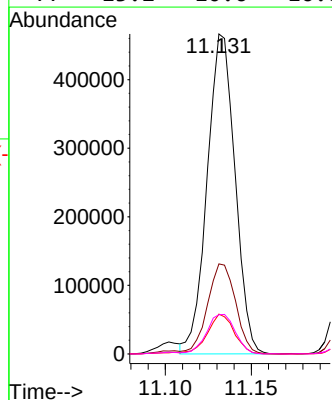
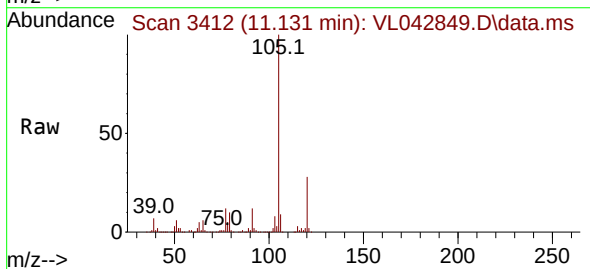
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

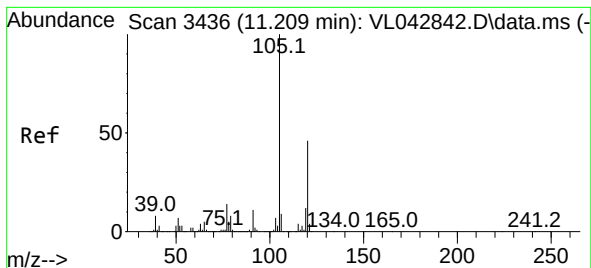
Tgt Ion: 91 Resp: 485171
Ion Ratio Lower Upper
91 100
126 29.1 12.0 47.8



#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 :

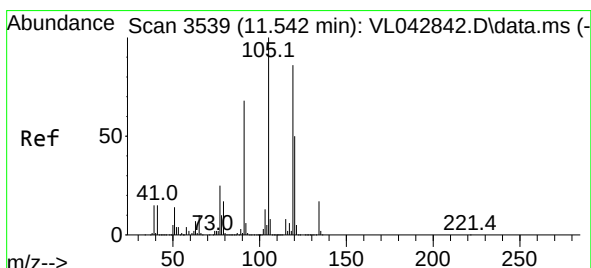
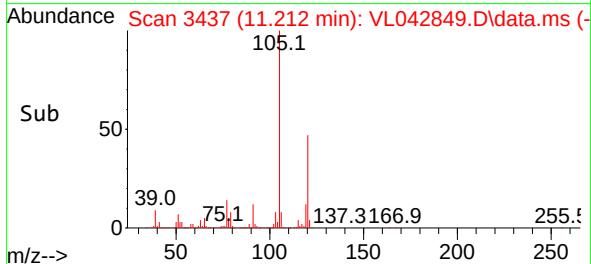
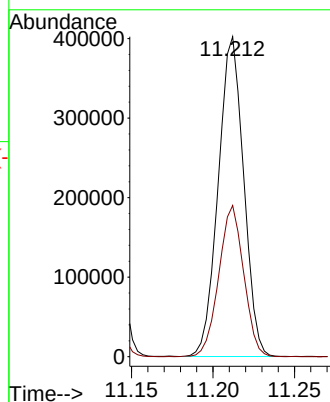
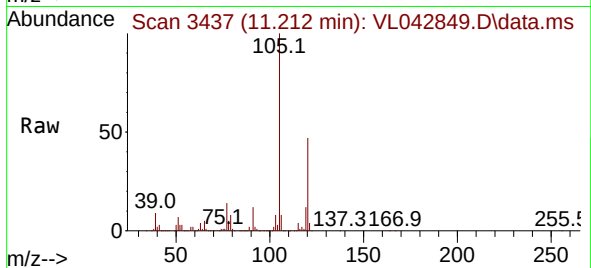
ICVVL081325

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

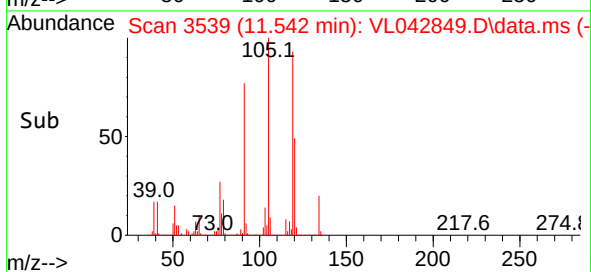
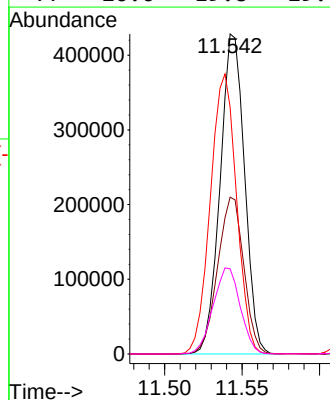
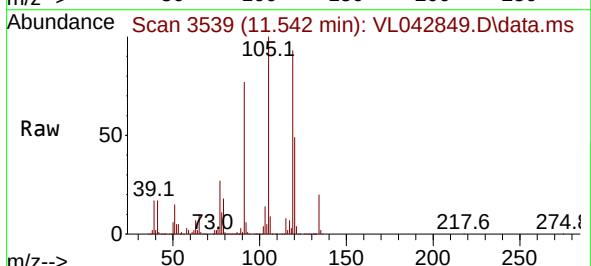
Ion Ratio Lower Upper

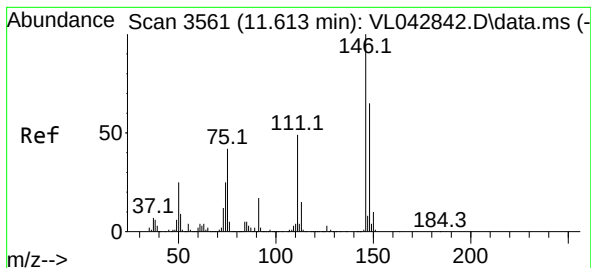
105 100

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

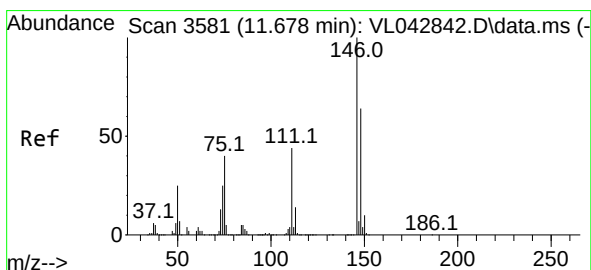
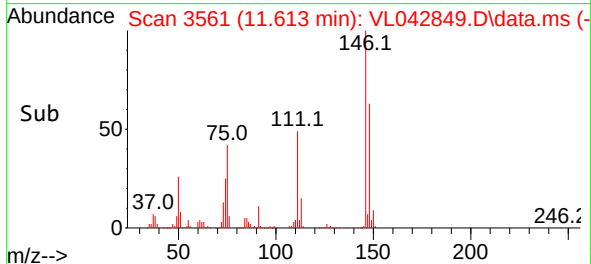
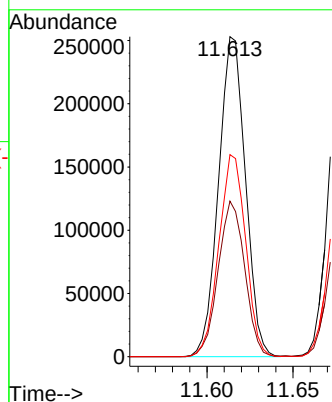
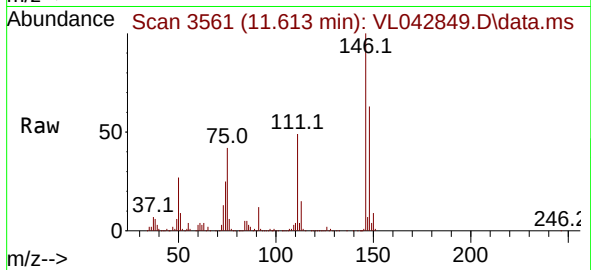
Tgt Ion:146 Resp: 274876

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

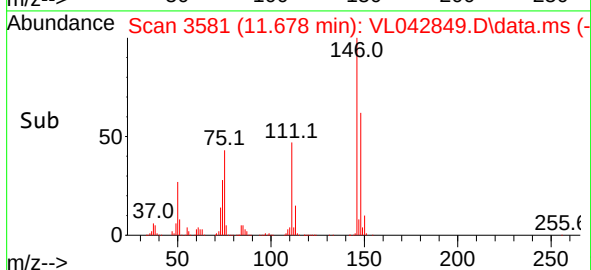
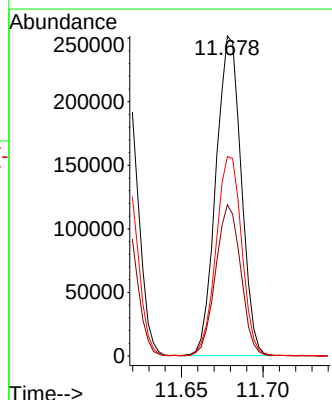
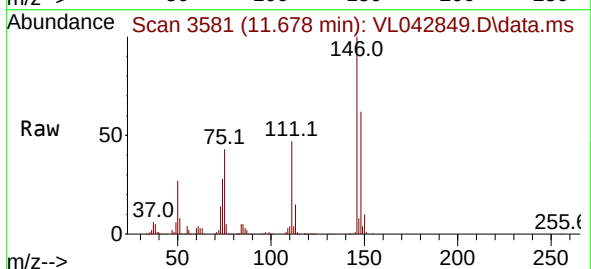
Tgt Ion:146 Resp: 270976

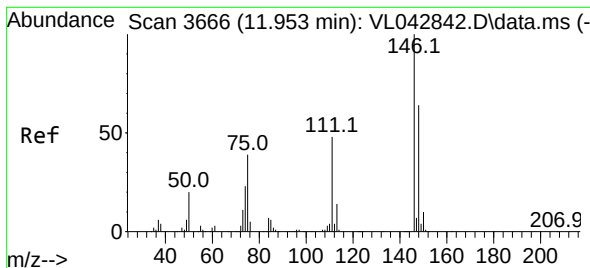
Ion Ratio Lower Upper

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

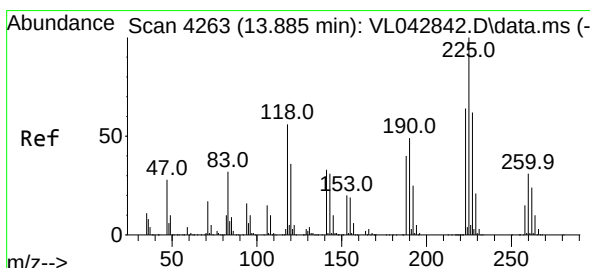
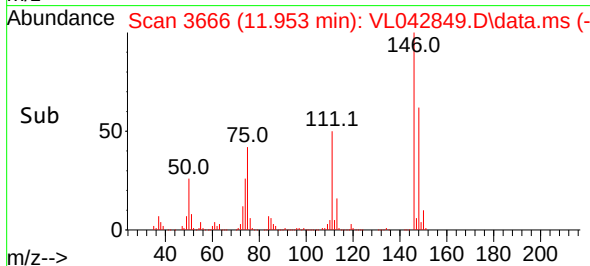
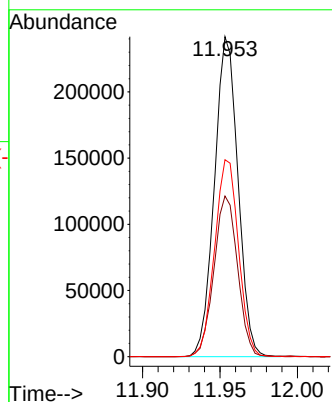
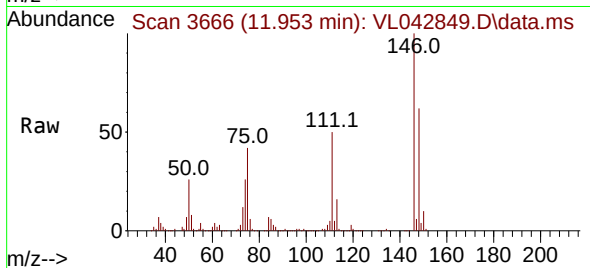
Tgt Ion:146 Resp: 255347

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

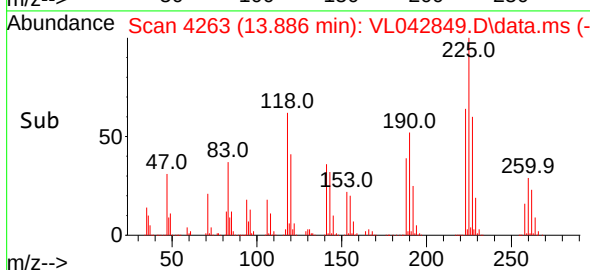
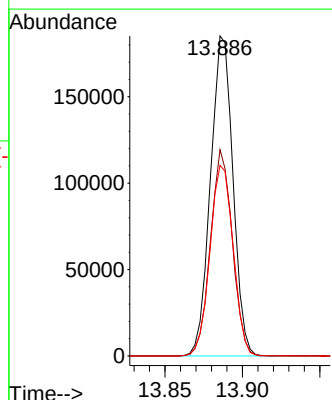
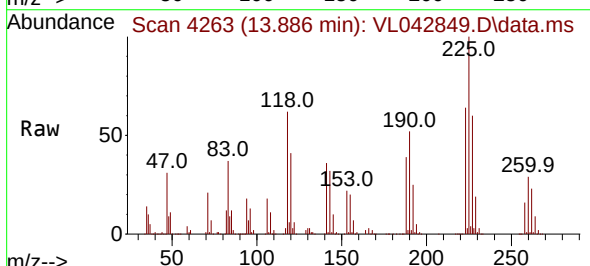
Tgt Ion:225 Resp: 186318

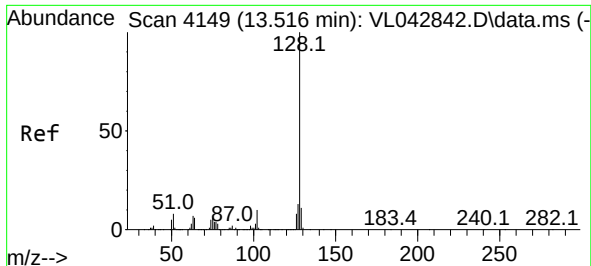
Ion Ratio Lower Upper

225 100

223 62.9 51.4 77.2

227 61.6 51.9 77.9

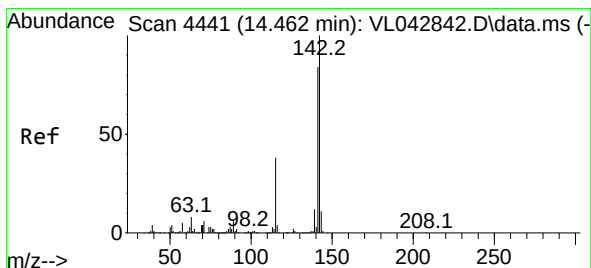
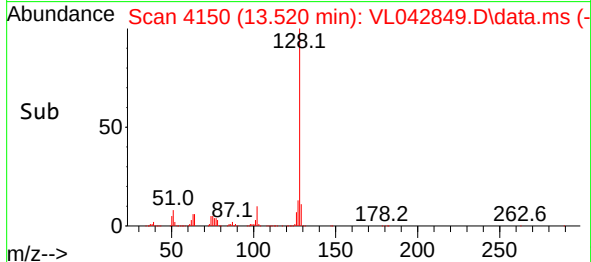
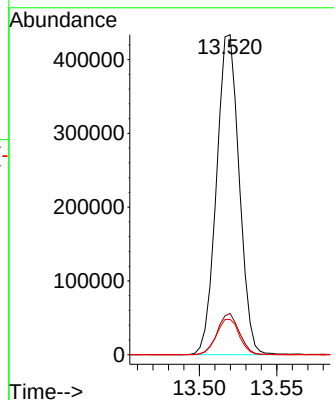
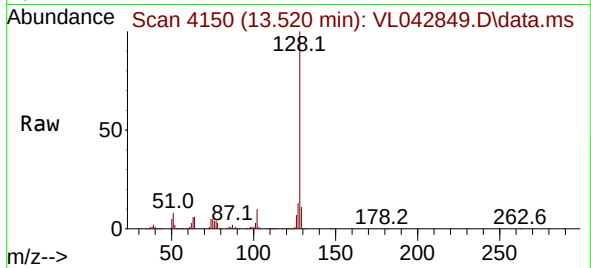




#79
Naphthalene
Concen: 9.284 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

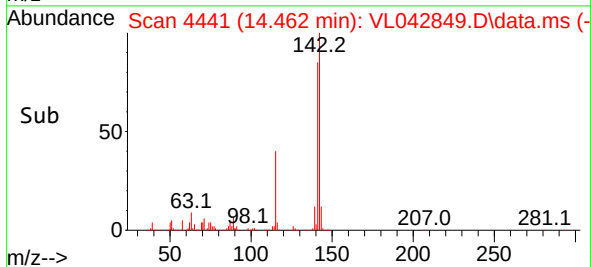
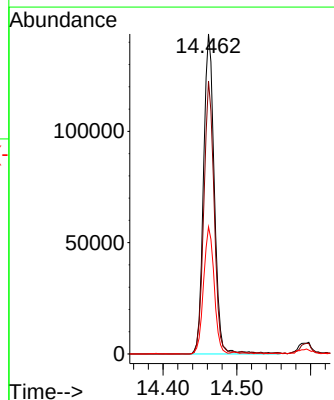
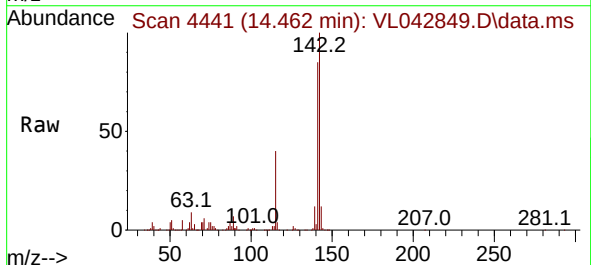
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

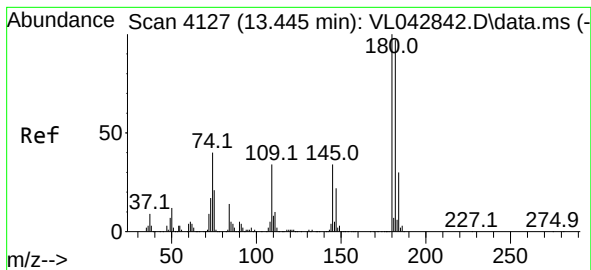
Tgt Ion:128 Resp: 441940
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 11.0 8.9 13.3



#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

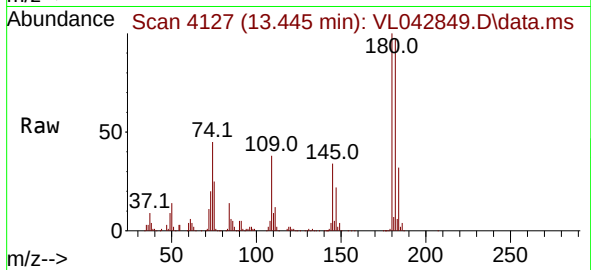
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325



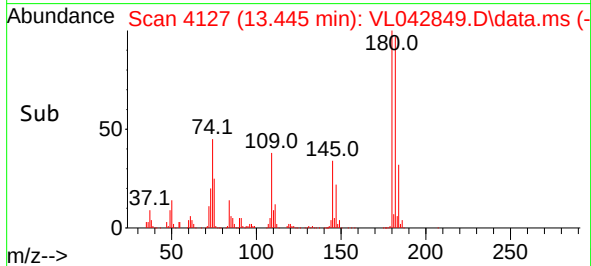
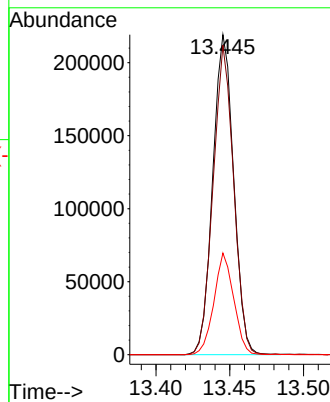
Tgt Ion:180 Resp: 215715

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 : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

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

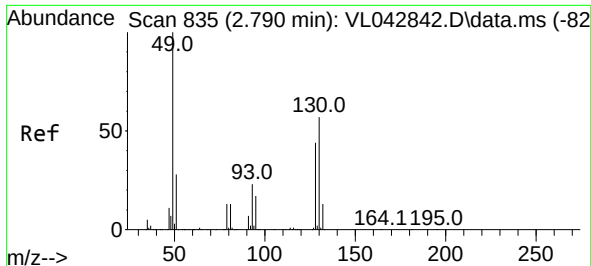
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 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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)
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

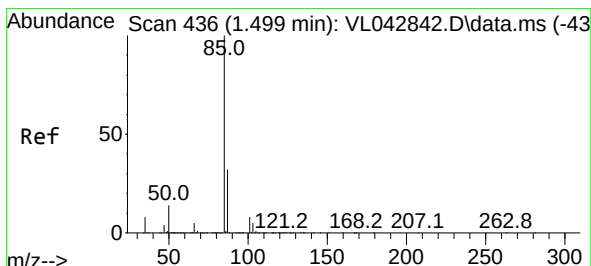
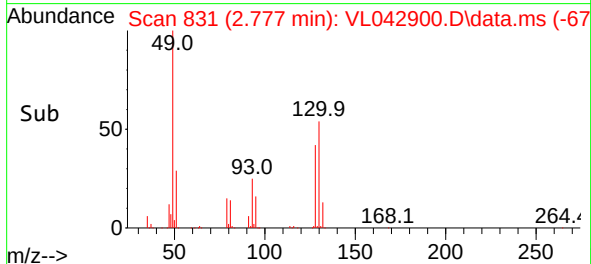
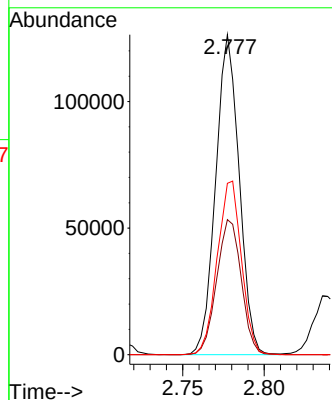
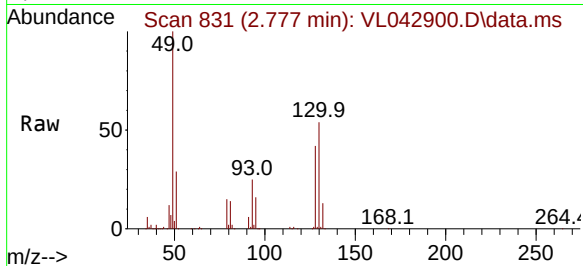
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

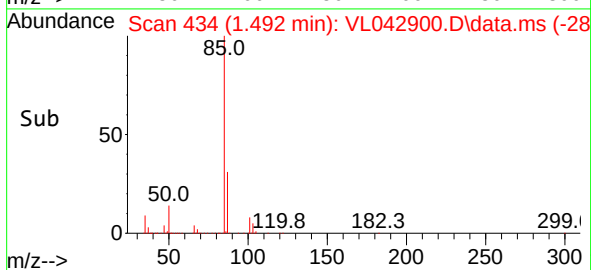
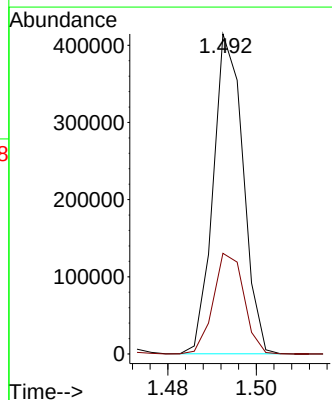
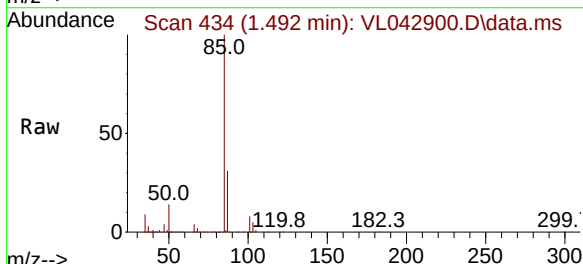
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 ClientSampleId :
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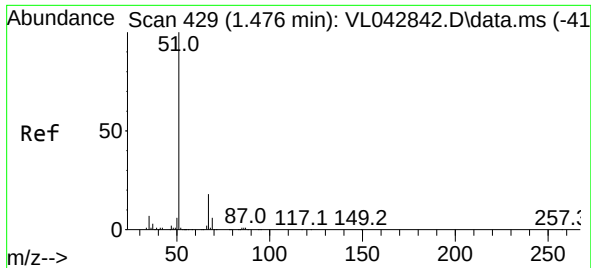
Tgt Ion: 49 Resp: 126678
 Ion Ratio Lower Upper
 49 100
 128 44.1 23.7 71.1
 130 55.7 30.6 91.6



#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

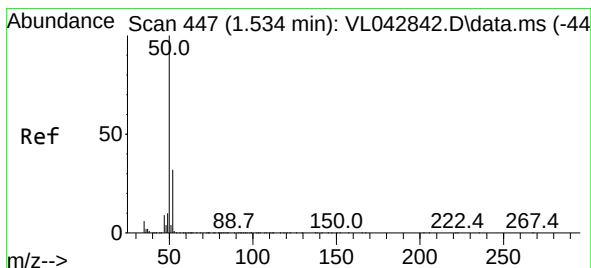
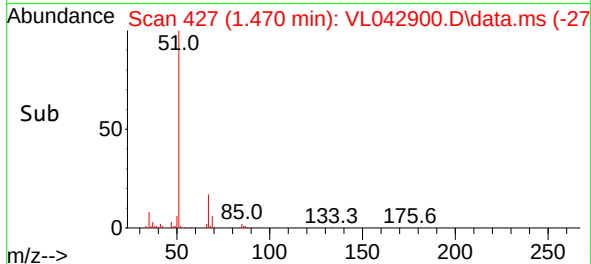
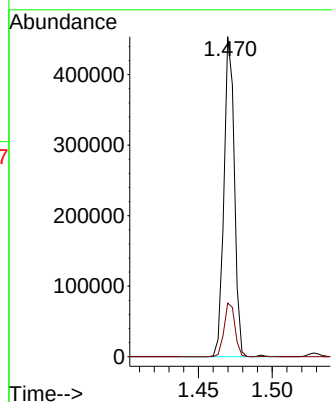
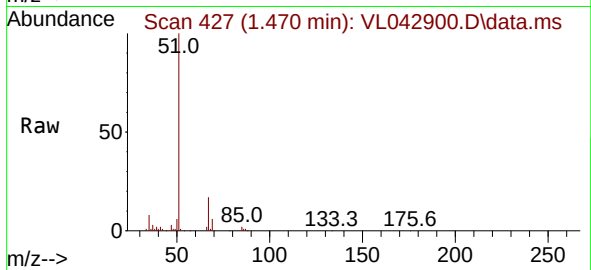




#3
Chlorodifluoromethane
Concen: 10.910 ppbv
RT: 1.470 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

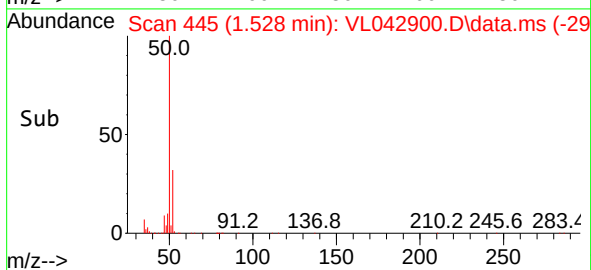
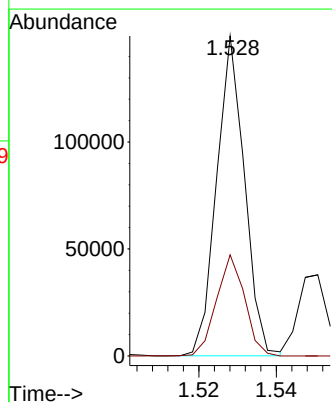
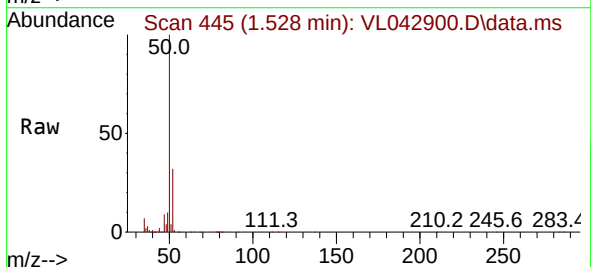
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

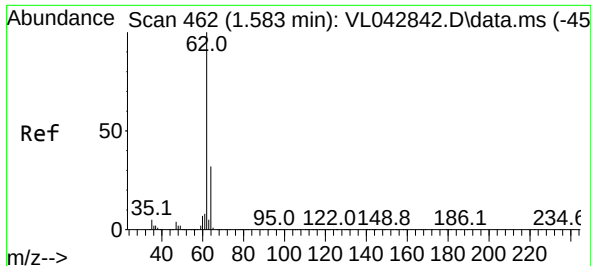
Tgt Ion: 51 Resp: 223887
Ion Ratio Lower Upper
51 100
67 17.5 14.9 22.3



#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

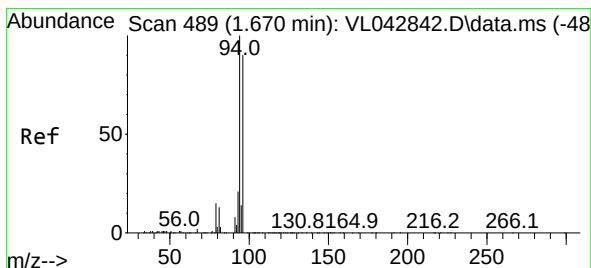
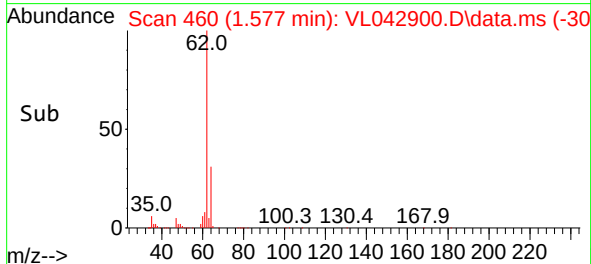
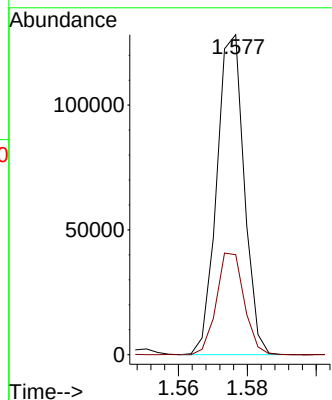
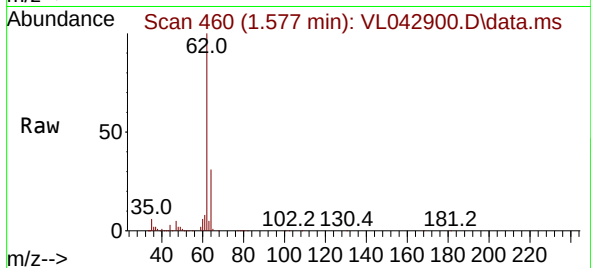




#5
 Vinyl Chloride
 Concen: 9.609 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

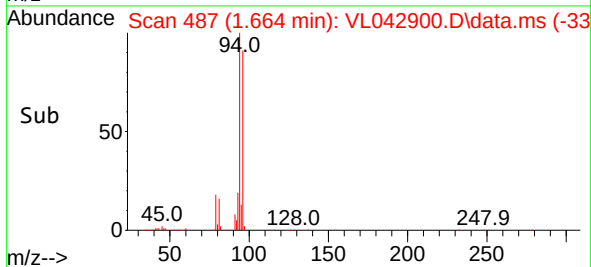
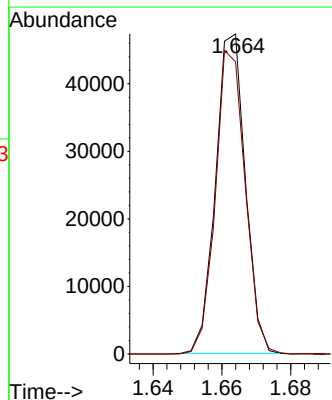
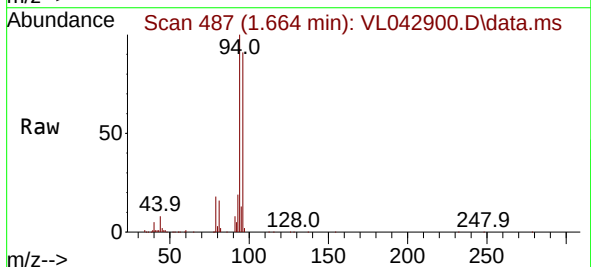
Instrument :
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 ClientSampleId :
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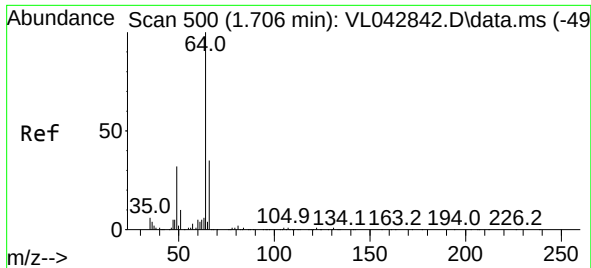
Tgt Ion: 62 Resp: 70899
 Ion Ratio Lower Upper
 62 100
 64 31.3 25.4 38.2



#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

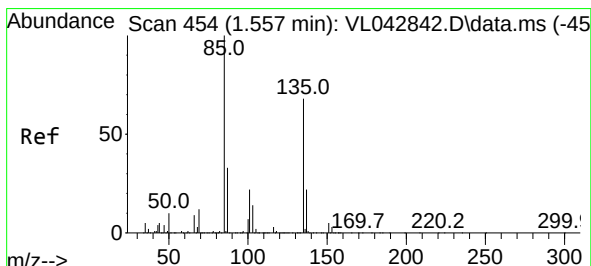
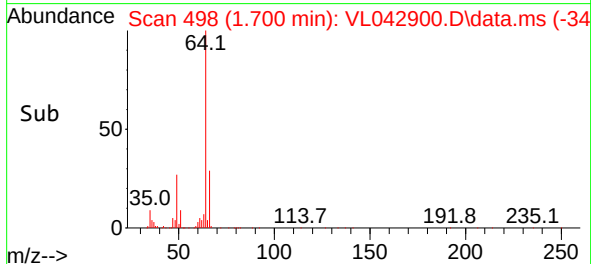
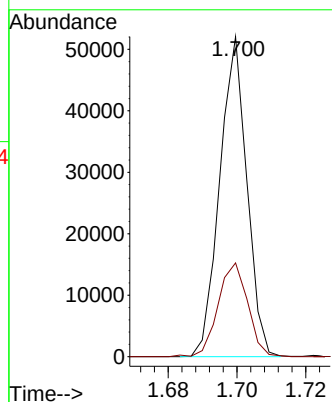
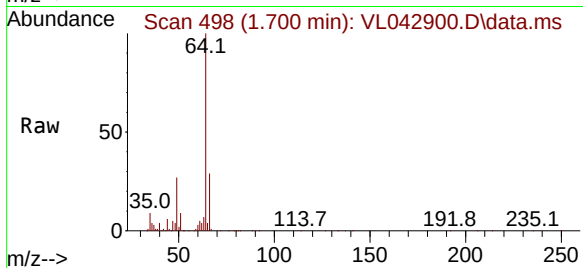




#7
Chloroethane
Concen: 9.889 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

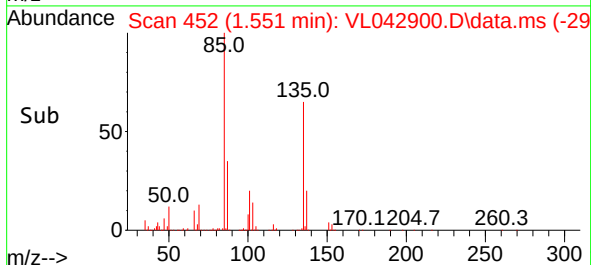
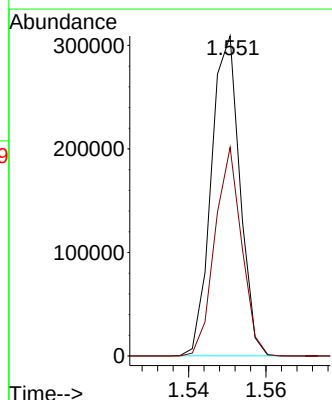
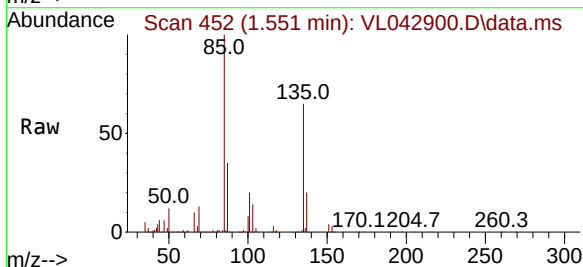
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

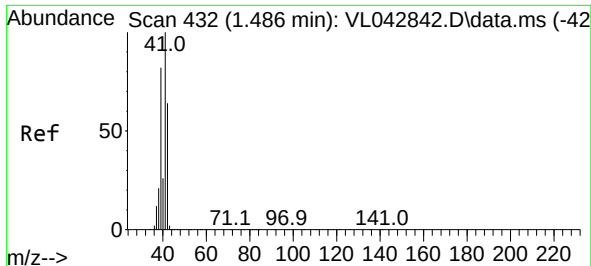
Tgt Ion: 64 Resp: 28496
Ion Ratio Lower Upper
64 100
66 29.3 28.6 42.8



#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

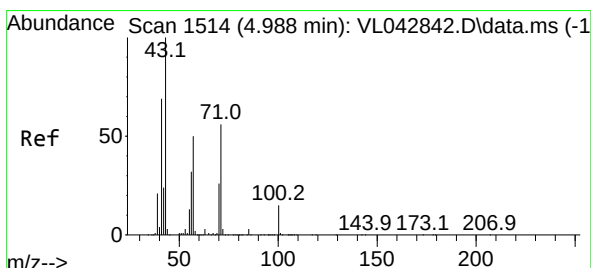
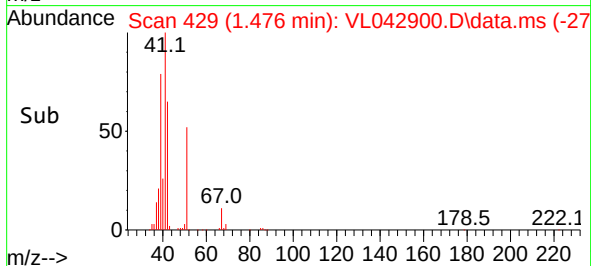
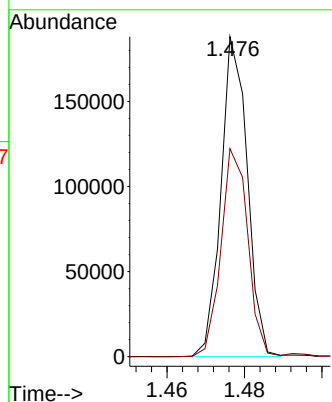
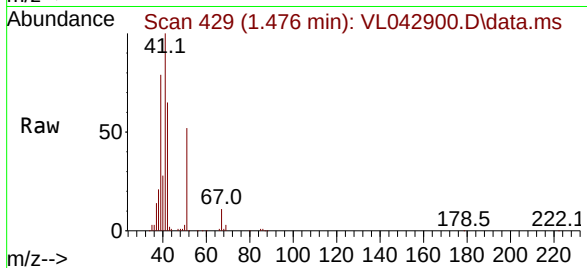




#9
 Propene
 Concen: 10.009 ppbv
 RT: 1.476 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

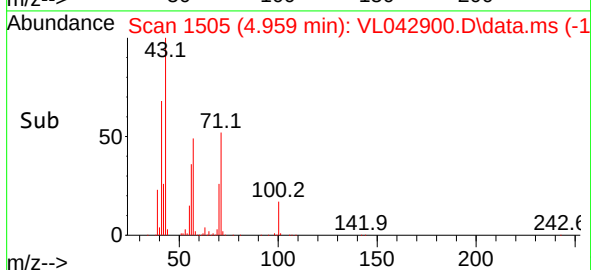
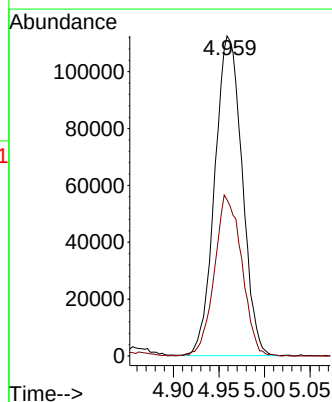
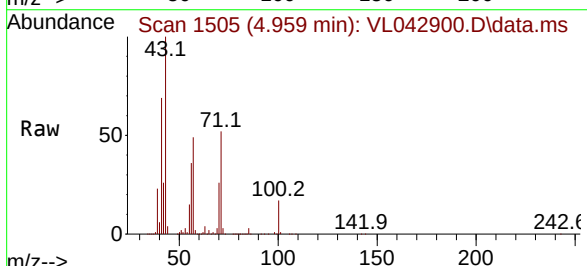
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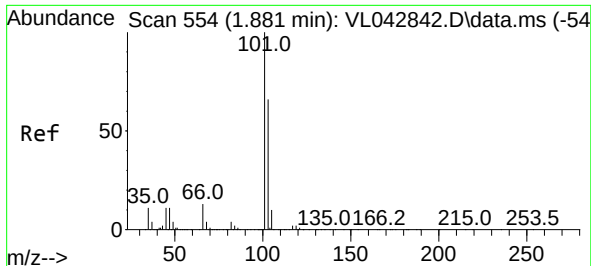
Tgt Ion: 41 Resp: 88702
 Ion Ratio Lower Upper
 41 100
 42 67.1 53.0 79.4



#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

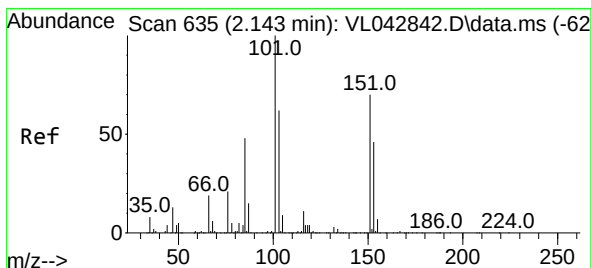
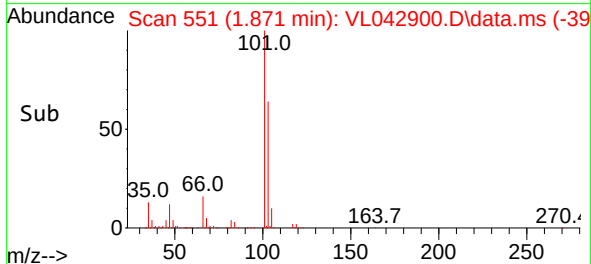
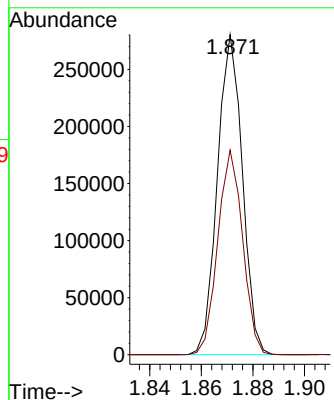
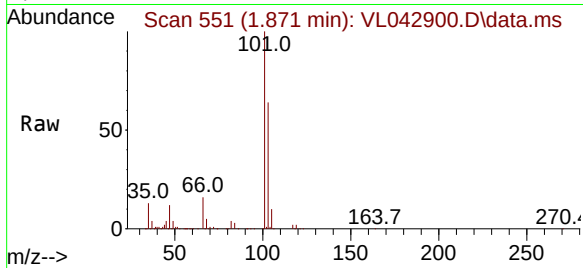




#11
 Trichlorofluoromethane
 Concen: 10.280 ppbv
 RT: 1.871 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

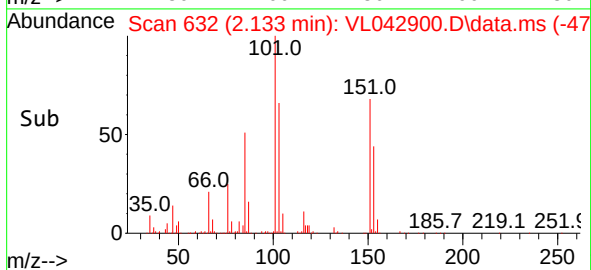
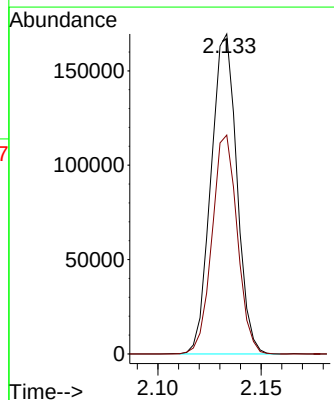
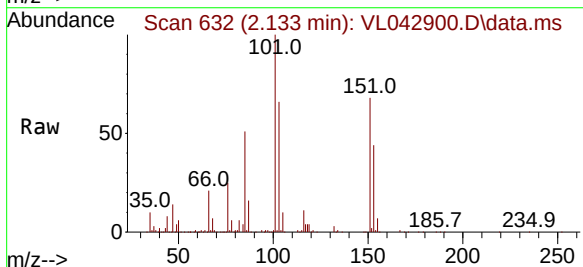
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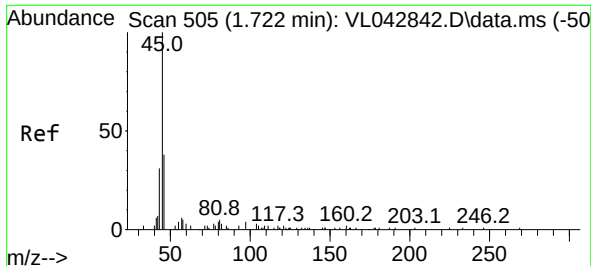
Tgt Ion:101 Resp: 188309
 Ion Ratio Lower Upper
 101 100
 103 63.9 52.5 78.7



#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

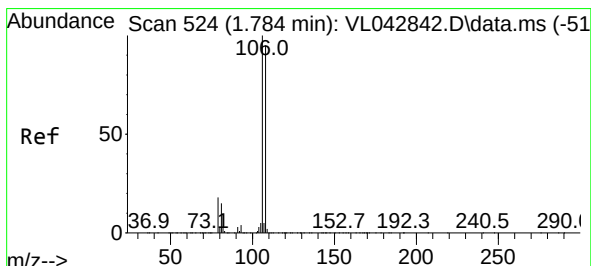
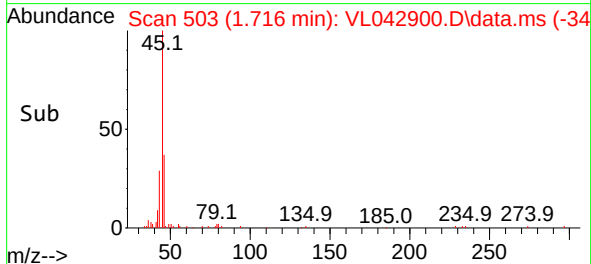
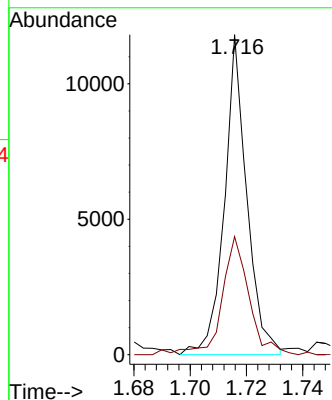
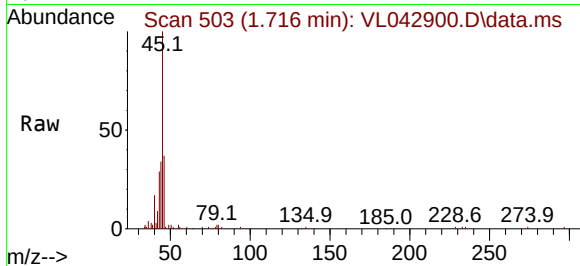




#13
 Ethanol
 Concen: 8.052 ppbv
 RT: 1.716 min Scan# 505
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

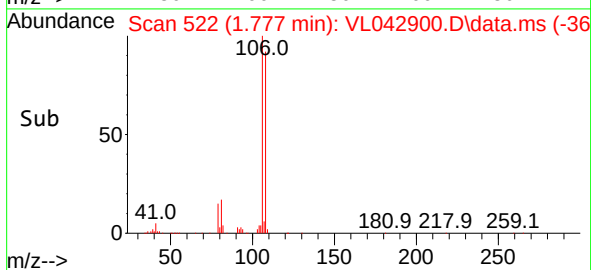
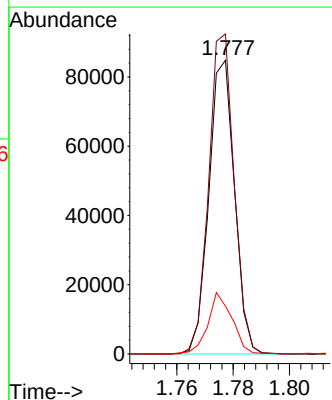
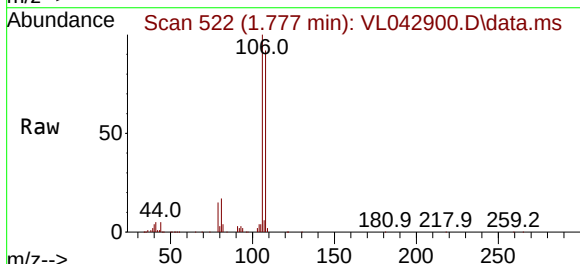
Instrument :
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 ClientSampleId :
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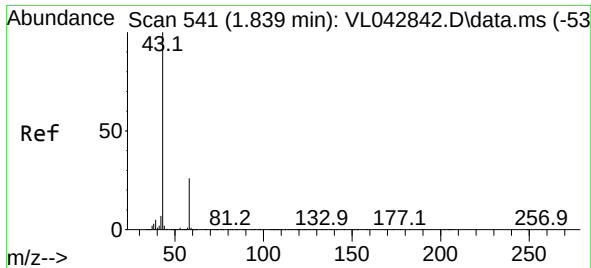
Tgt Ion: 45 Resp: 6525
 Ion Ratio Lower Upper
 45 100
 46 44.8 17.5 69.9



#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

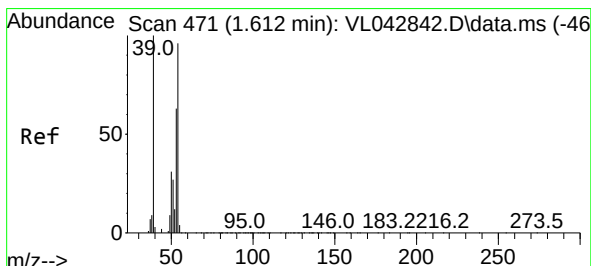
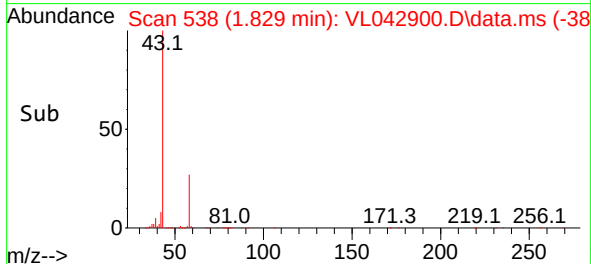
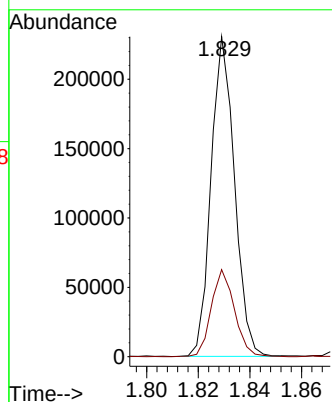
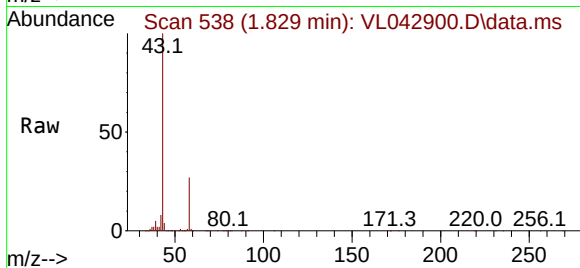




#15
Acetone
Concen: 8.670 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

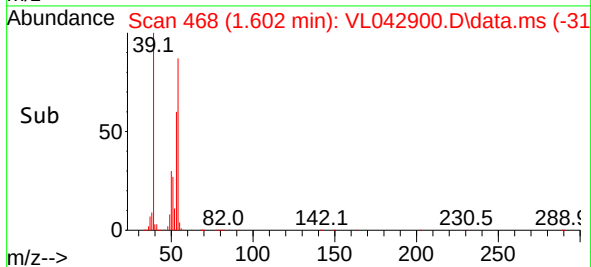
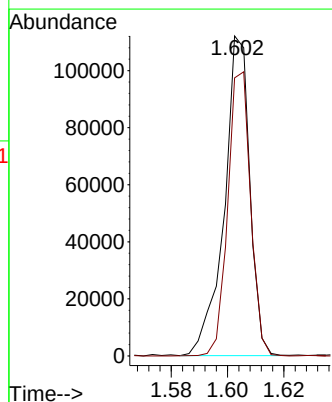
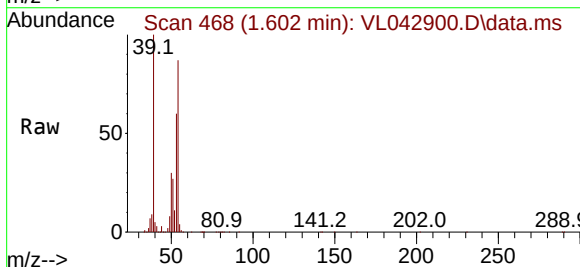
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

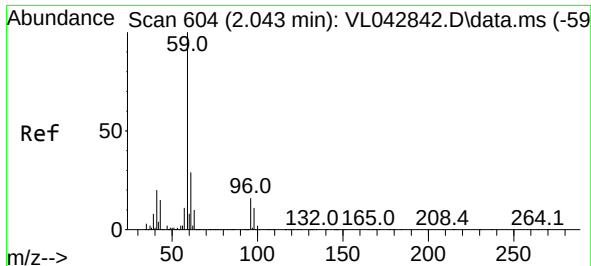
Tgt Ion: 43 Resp: 145289
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6



#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 :

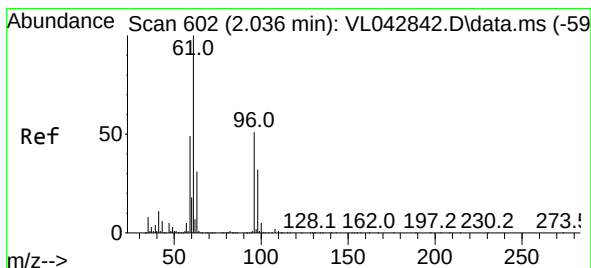
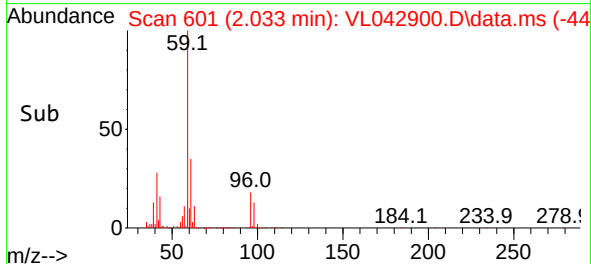
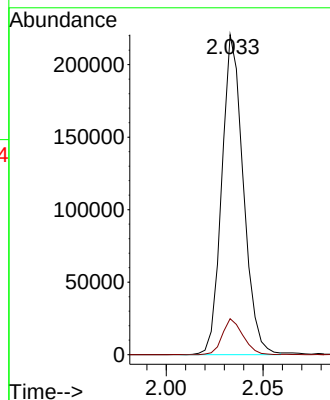
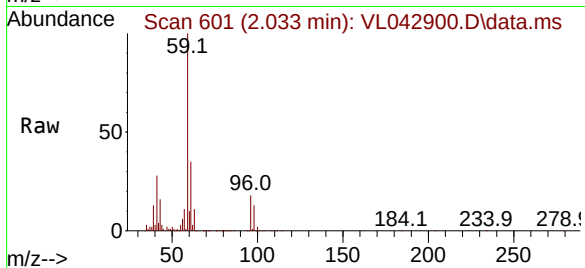
VSTDCCC010

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

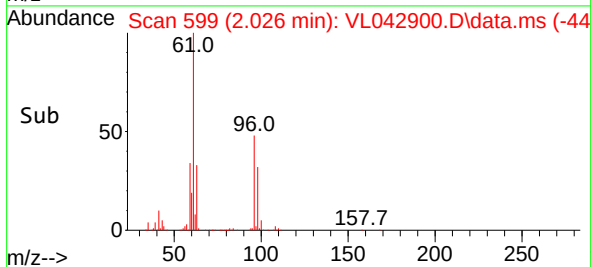
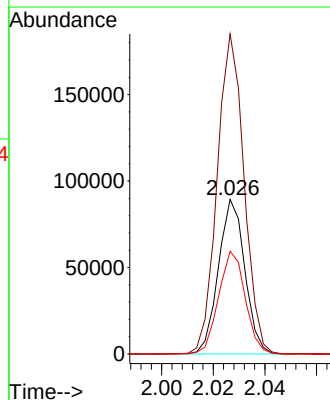
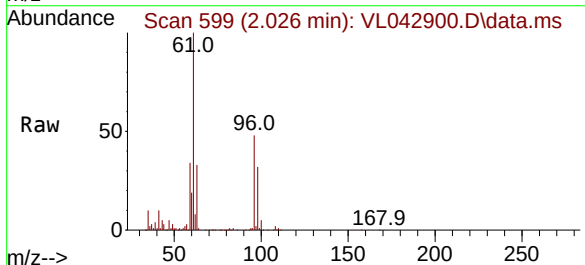
Tgt Ion: 96 Resp: 63544

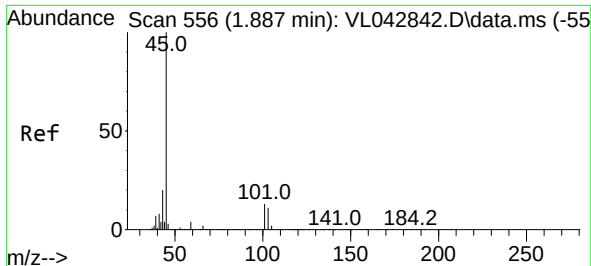
Ion Ratio Lower Upper

96 100

61 207.0 158.2 237.4

98 66.3 50.6 76.0

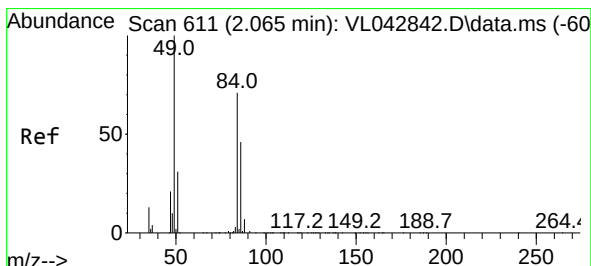
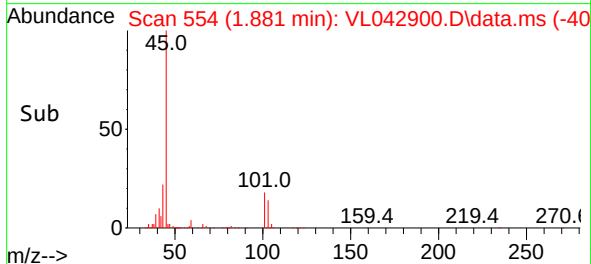
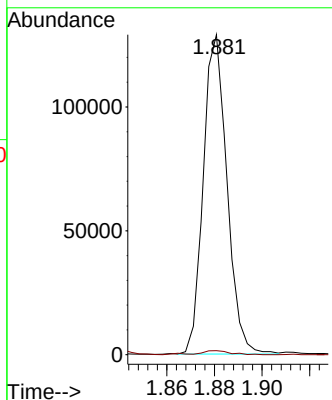
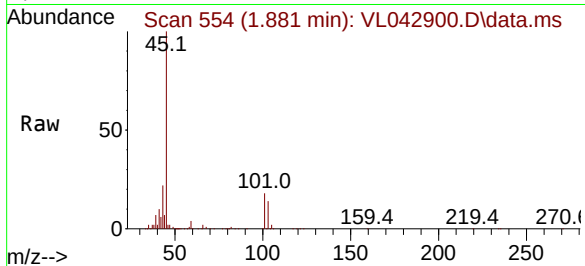




#19
Isopropyl Alcohol
Concen: 8.893 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

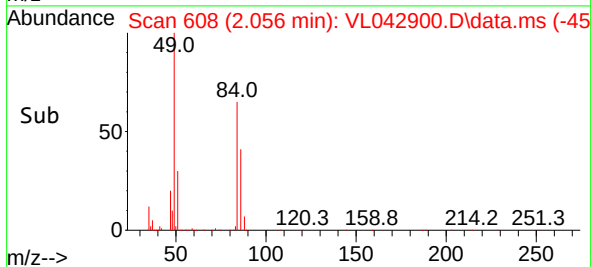
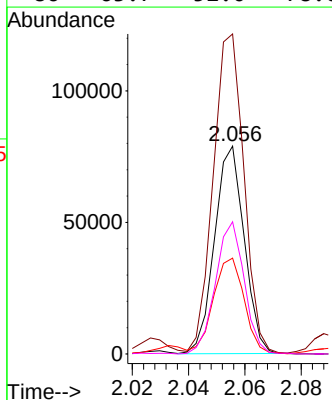
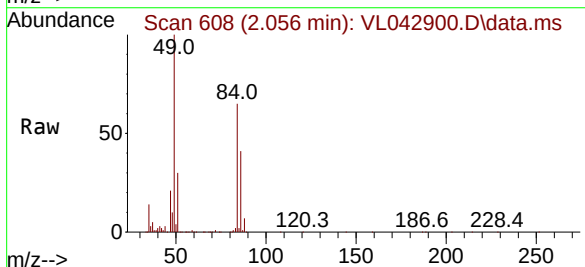
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

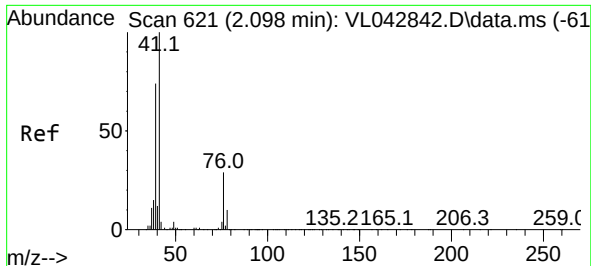
Tgt Ion: 45 Resp: 89009
Ion Ratio Lower Upper
45 100
58 44.1 32.7 49.1



#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

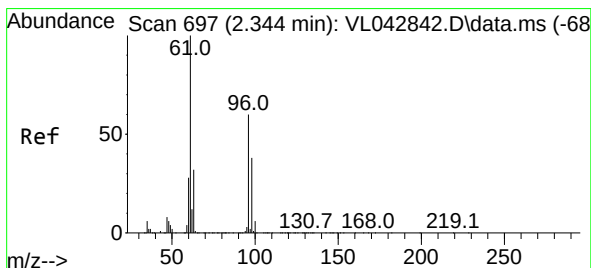
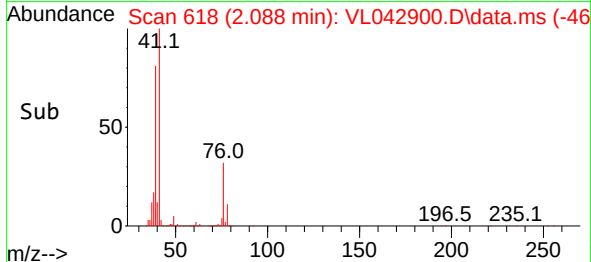
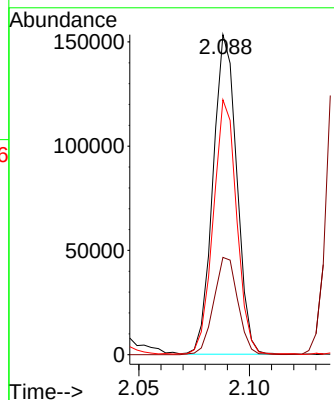
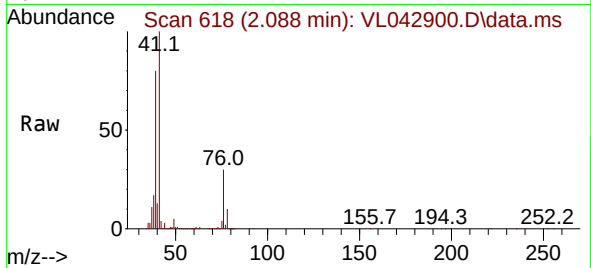




#21
 Allyl Chloride
 Concen: 9.658 ppbv
 RT: 2.088 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

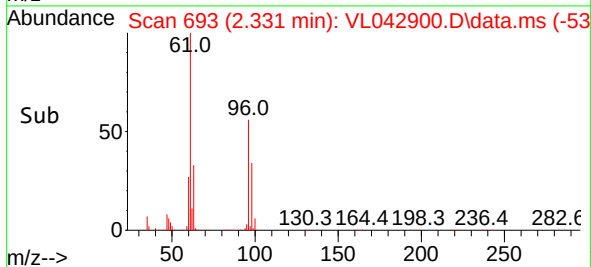
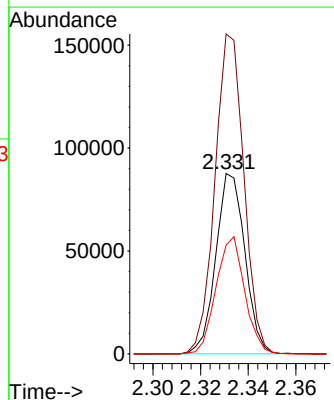
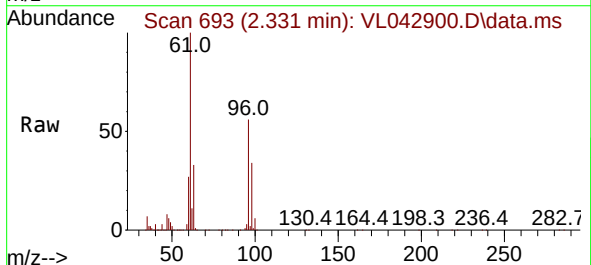
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

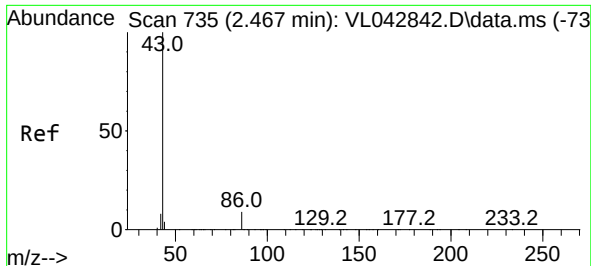
Tgt Ion: 41 Resp: 114332
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 78.4 57.8 86.6



#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



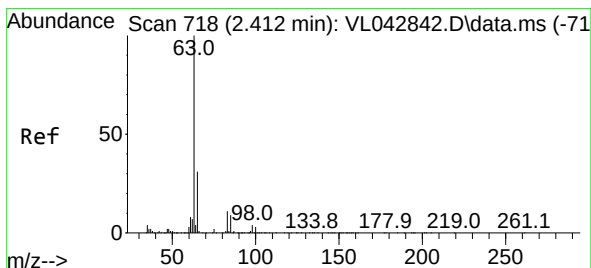
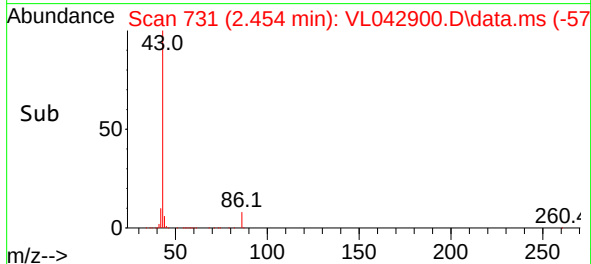
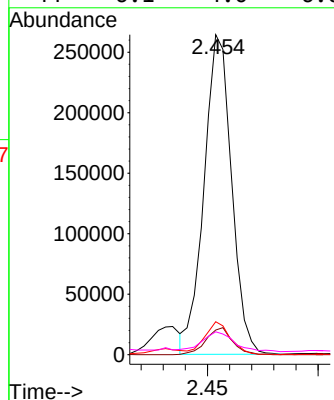
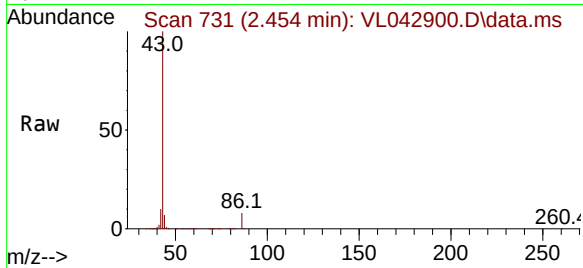


#23
 Vinyl Acetate
 Concen: 9.907 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 228268

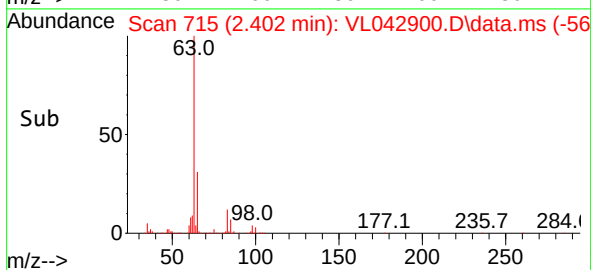
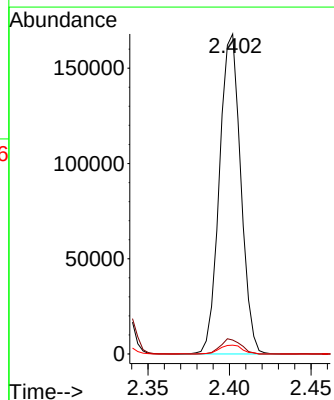
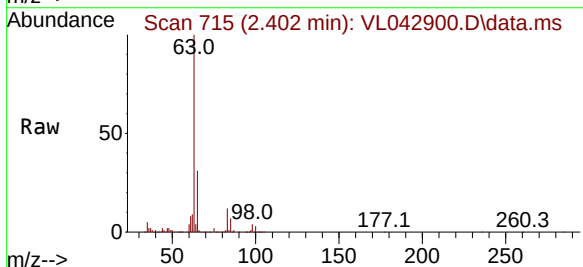
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8
42	10.3	7.0	10.6
44	6.1	4.0	6.0

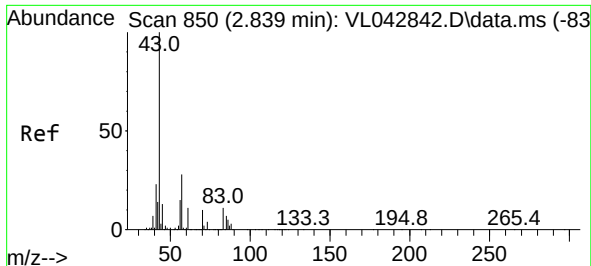


#24
 1,1-Dichloroethane
 Concen: 10.291 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

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



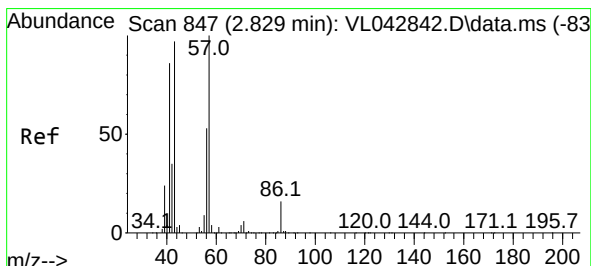
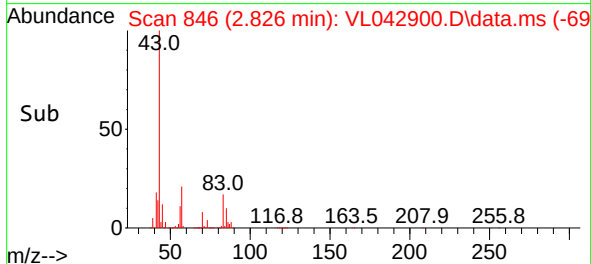
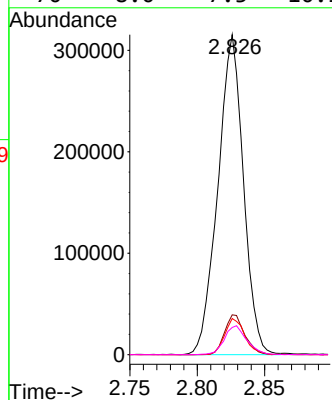
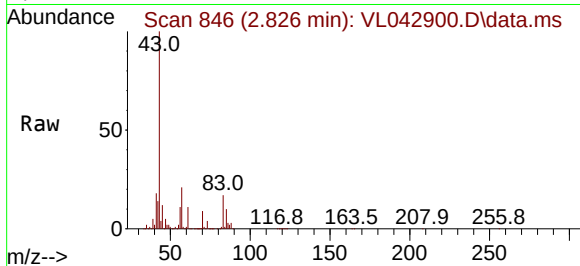


#25
Ethyl Acetate
Concen: 10.242 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 415386

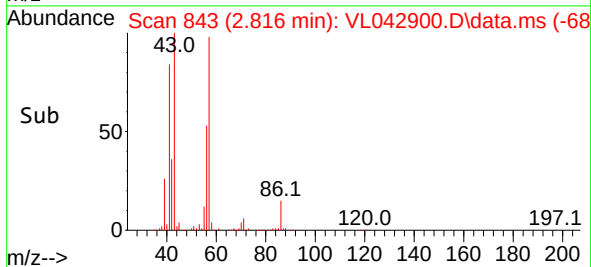
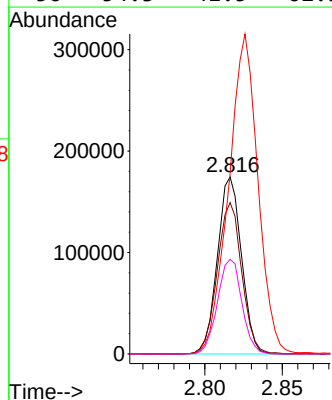
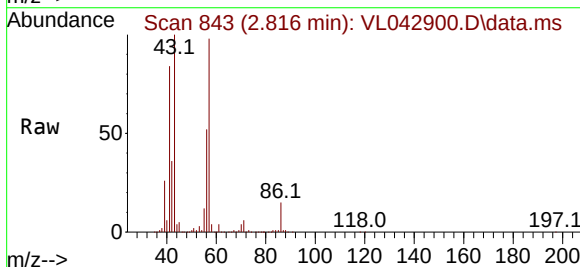
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.0	7.4	11.2
70	8.0	7.3	10.9

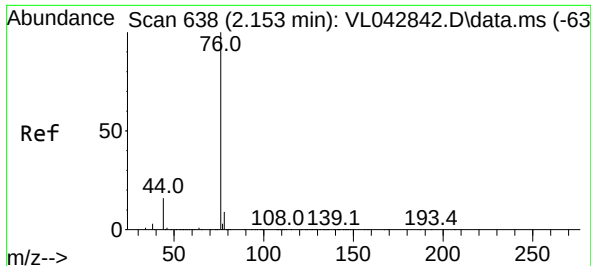


#26
Hexane
Concen: 10.031 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

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

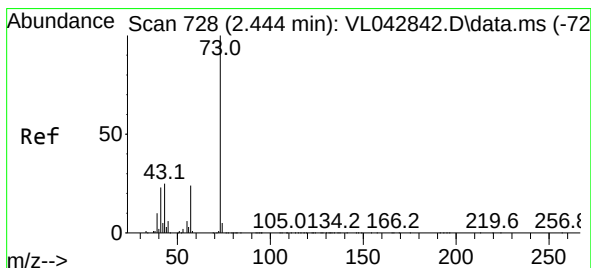
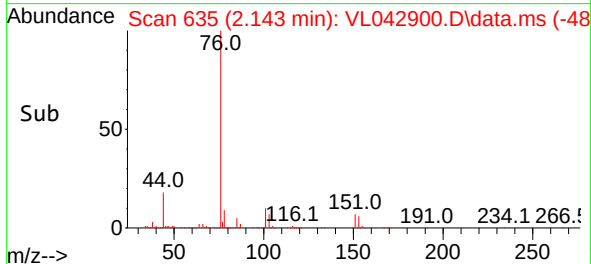
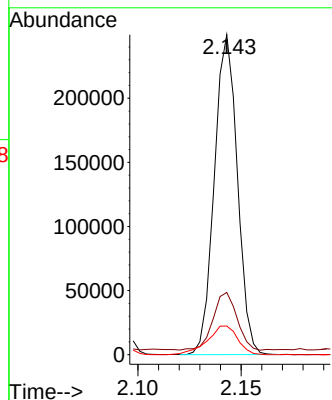
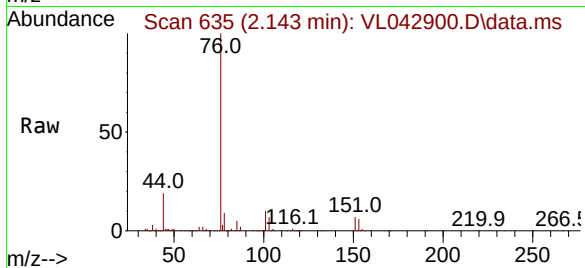




#27
Carbon Disulfide
Concen: 10.608 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

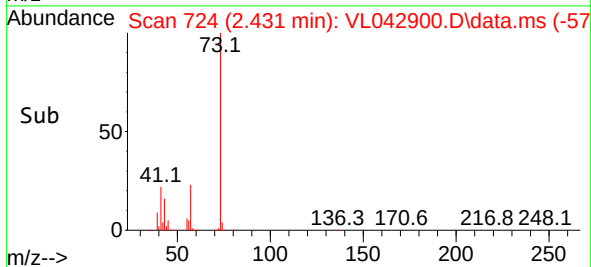
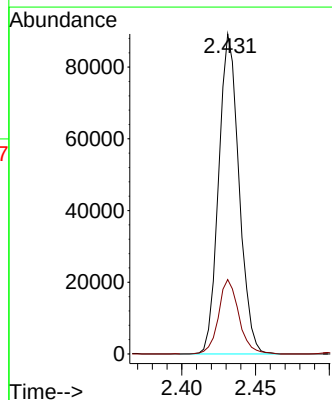
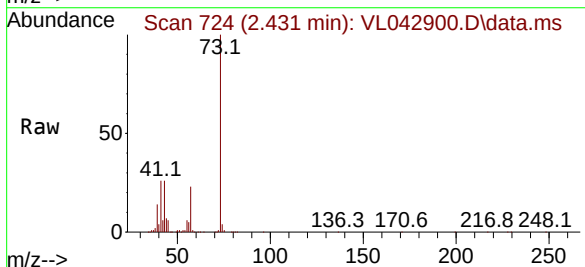
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

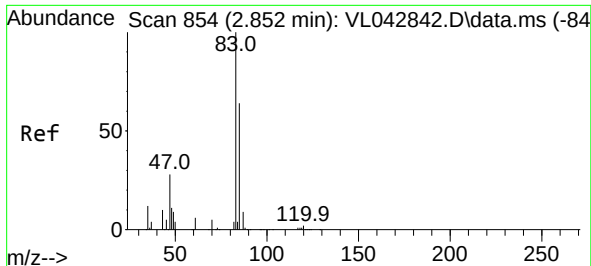
Tgt Ion: 76 Resp: 193262
Ion Ratio Lower Upper
76 100
44 18.7 15.9 23.9
78 11.8 9.5 14.3



#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# 8

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

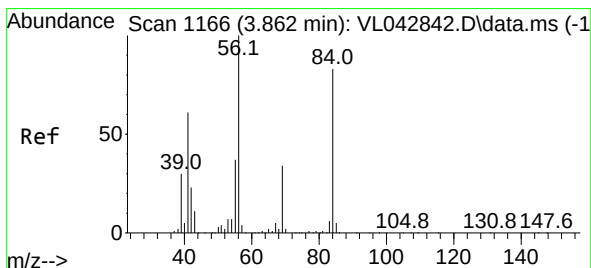
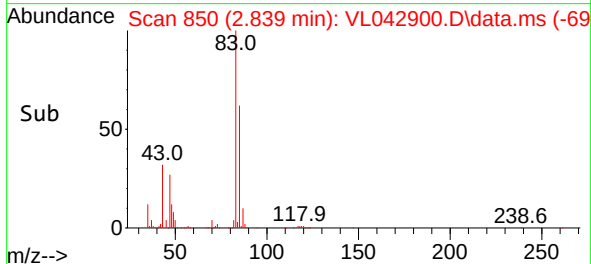
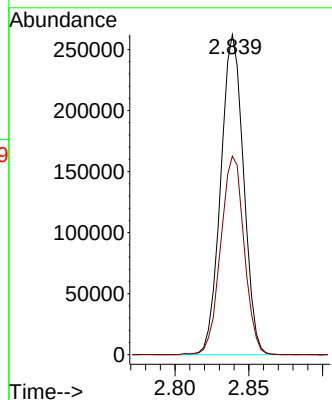
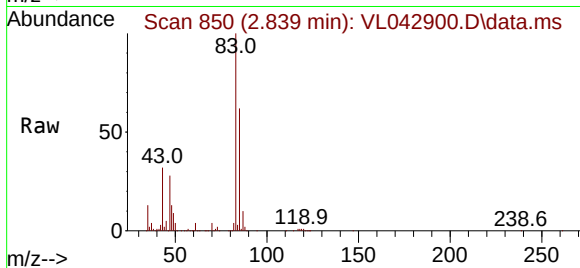
VSTDCCC010

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

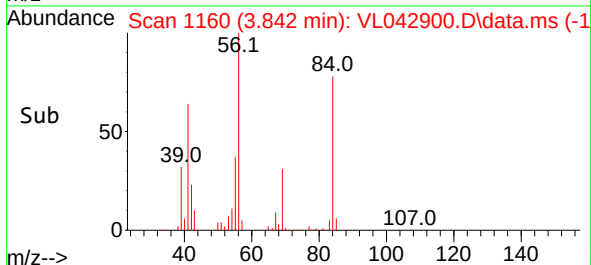
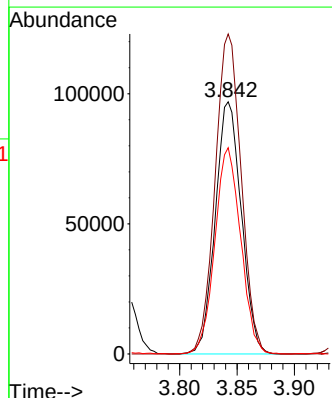
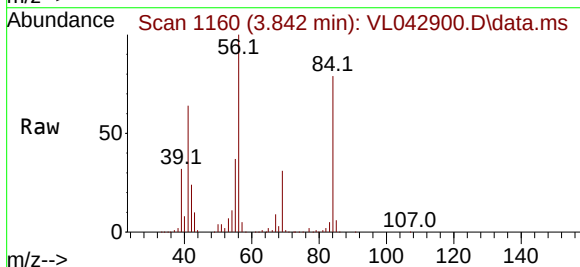
Tgt Ion: 84 Resp: 153066

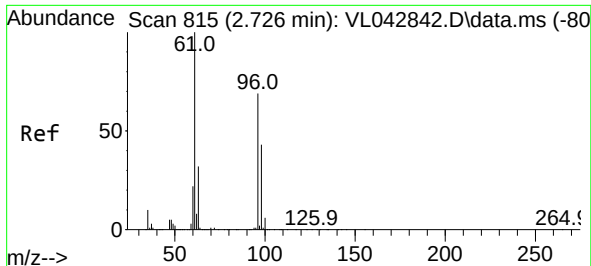
Ion Ratio Lower Upper

84 100

56 127.0 98.8 148.2

41 81.3 61.3 91.9

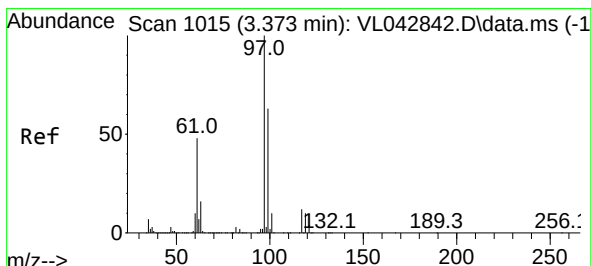
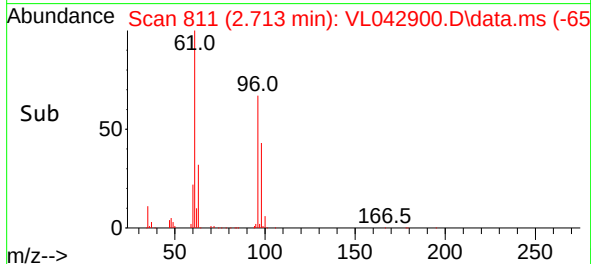
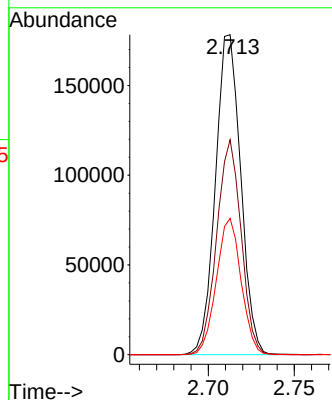
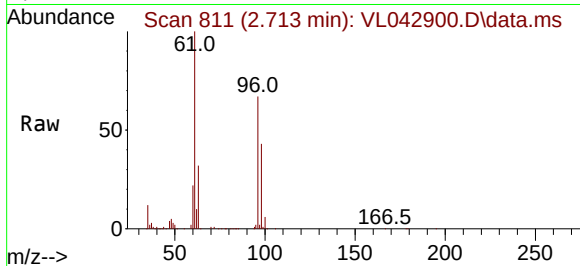




#31
 cis-1,2-Dichloroethene
 Concen: 9.765 ppbv
 RT: 2.713 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

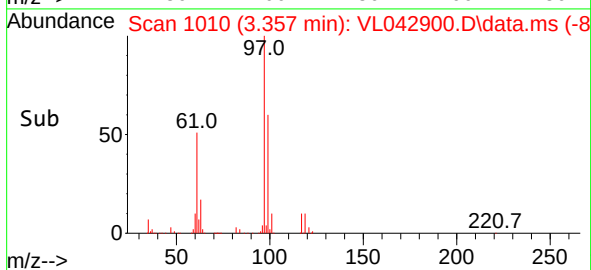
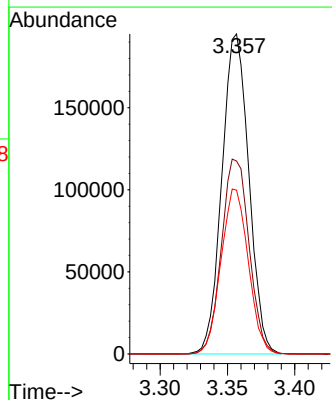
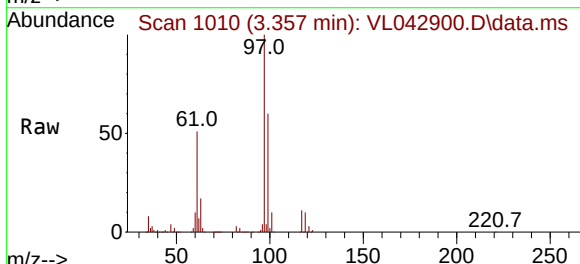
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

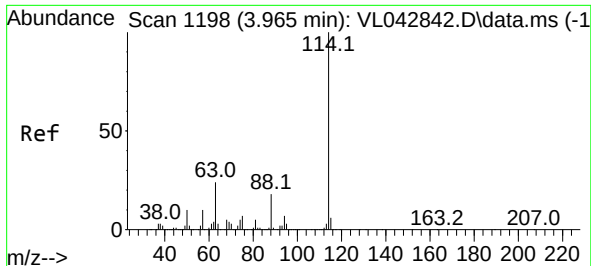
Tgt Ion: 61 Resp: 182592
 Ion Ratio Lower Upper
 61 100
 96 67.1 55.0 82.6
 98 42.6 34.3 51.5



#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

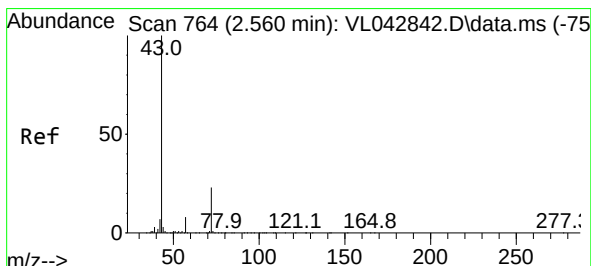
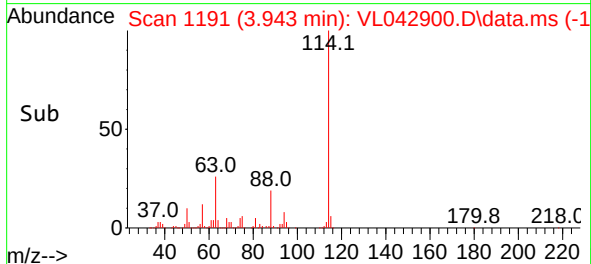
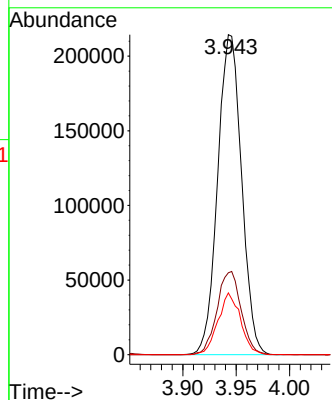
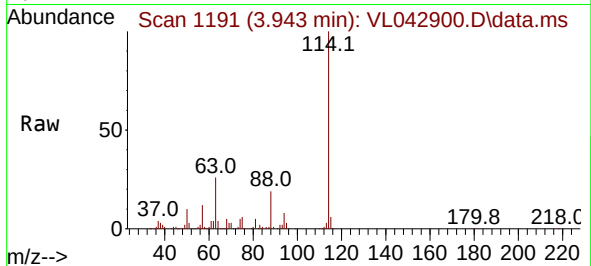




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1198
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

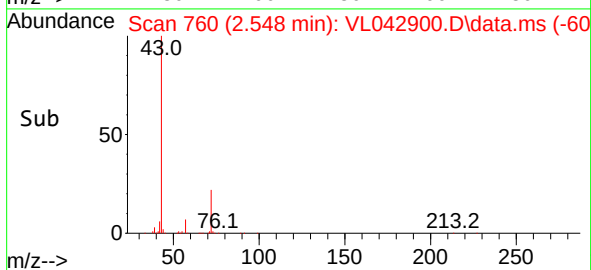
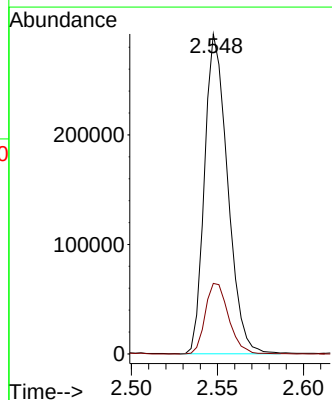
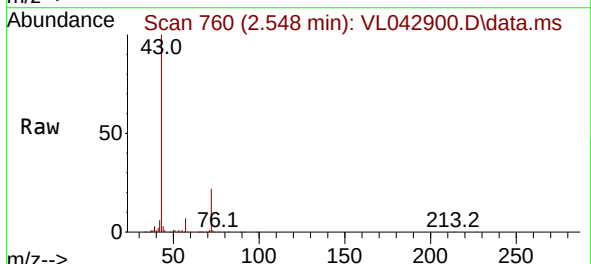
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

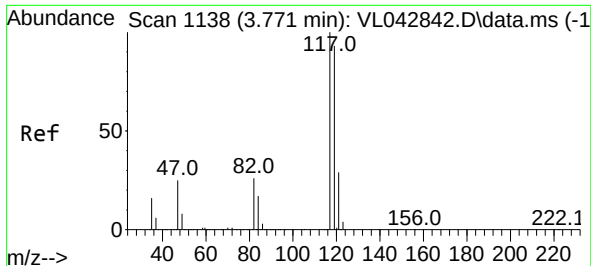
Tgt Ion:114 Resp: 333606
Ion Ratio Lower Upper
114 100
63 26.3 19.7 29.5
88 18.2 14.4 21.6



#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

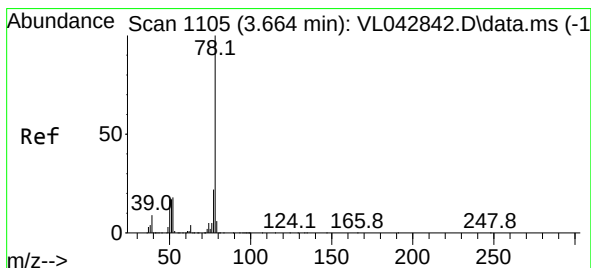
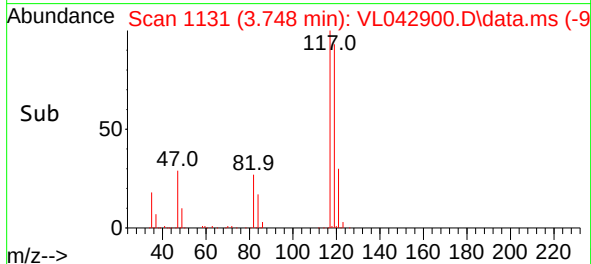
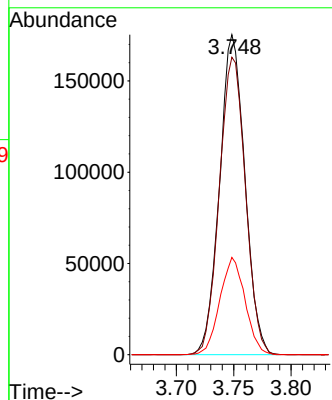
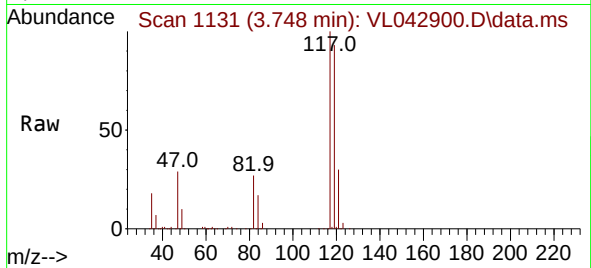




#35
Carbon Tetrachloride
Concen: 11.700 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

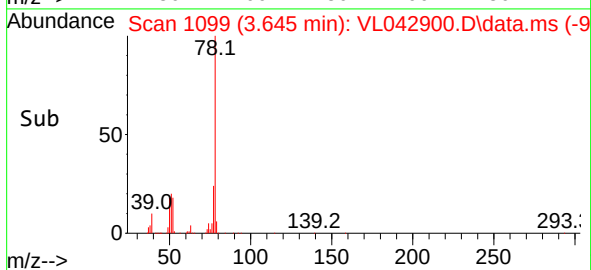
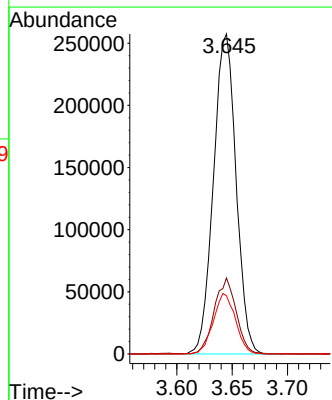
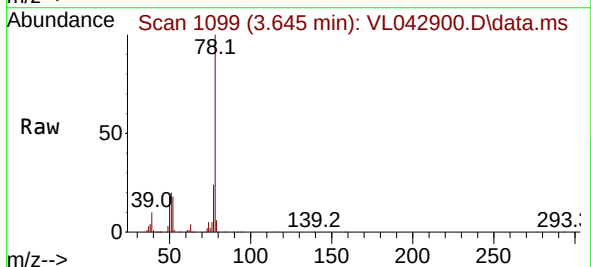
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

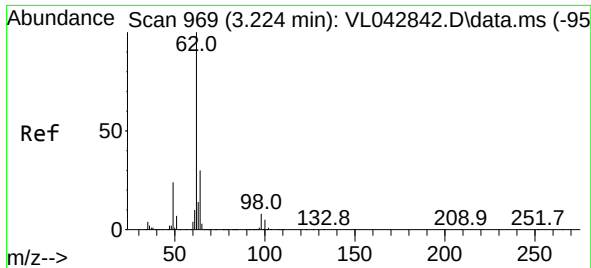
Tgt Ion:117 Resp: 269097
Ion Ratio Lower Upper
117 100
119 93.0 74.7 112.1
121 30.4 23.2 34.8



#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 :

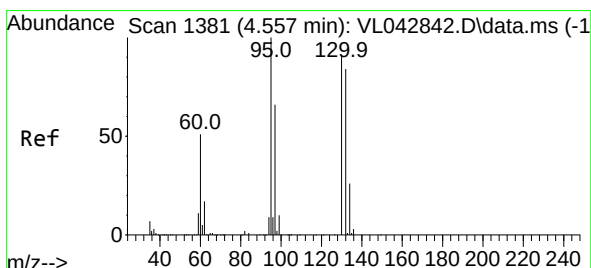
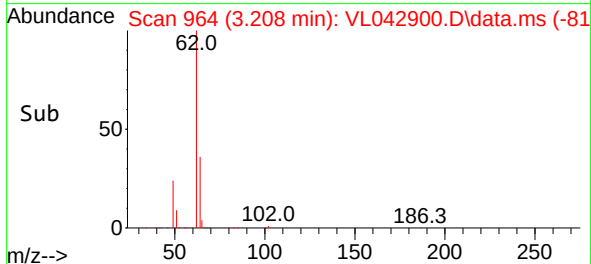
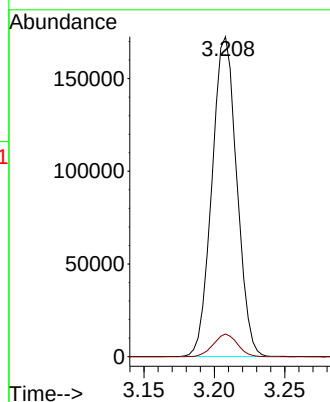
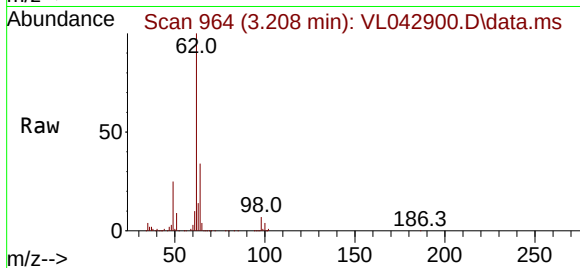
VSTDCCC010

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

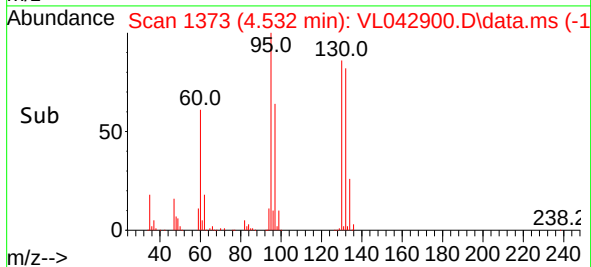
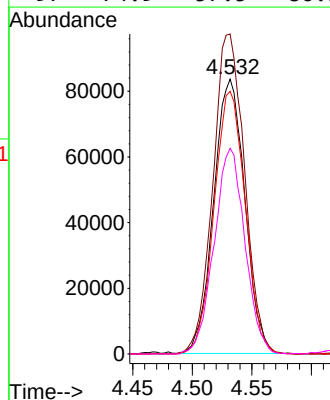
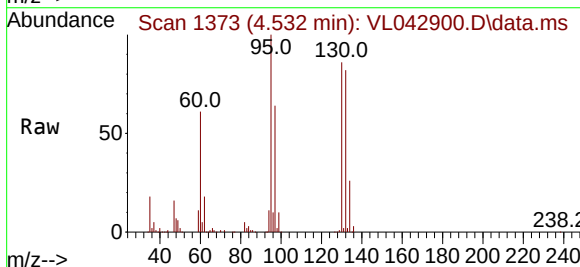
Ion Ratio Lower Upper

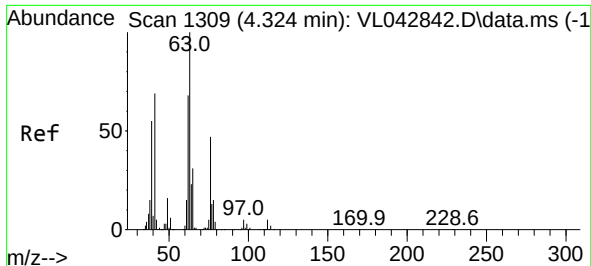
130 100

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

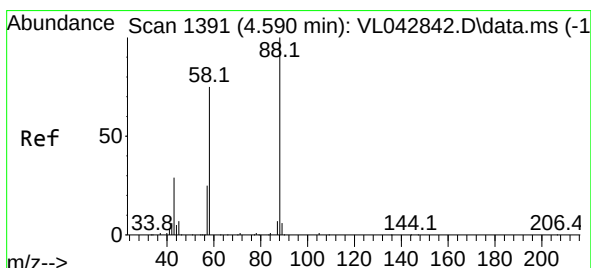
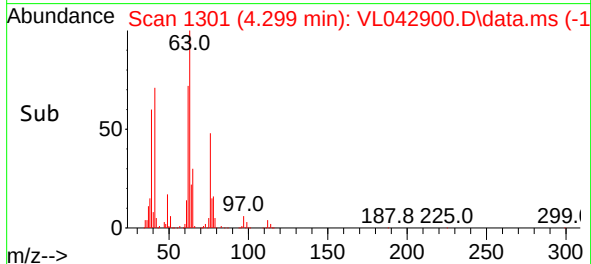
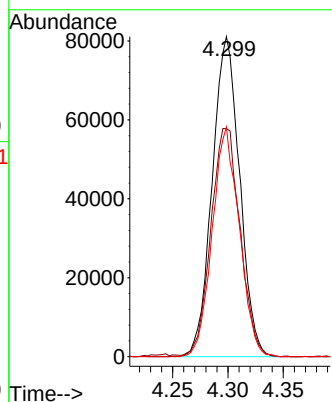
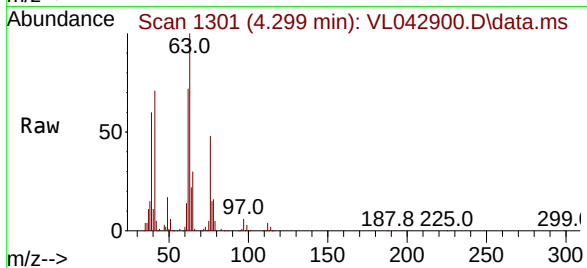
Tgt Ion: 63 Resp: 139657

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

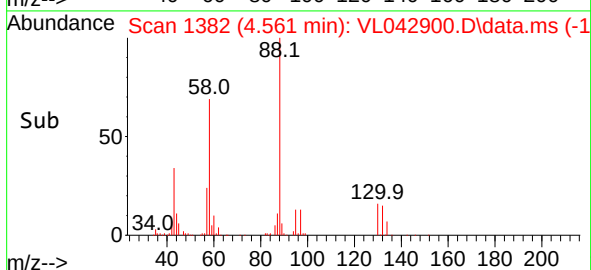
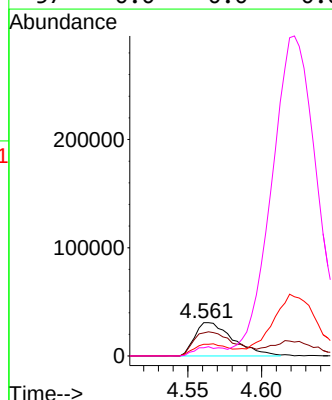
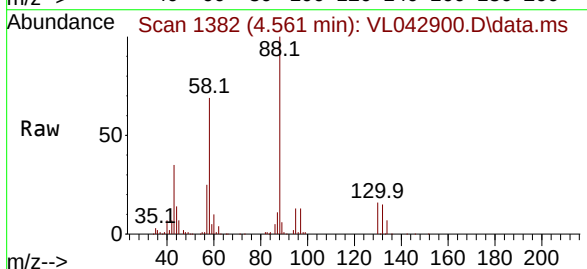
Ion Ratio Lower Upper

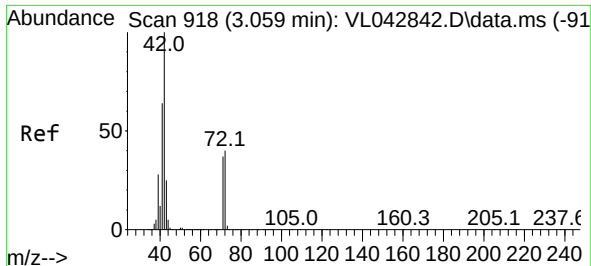
88 100

58 76.6 53.8 80.6

43 35.7 22.8 34.2#

57 0.0 0.0 0.0

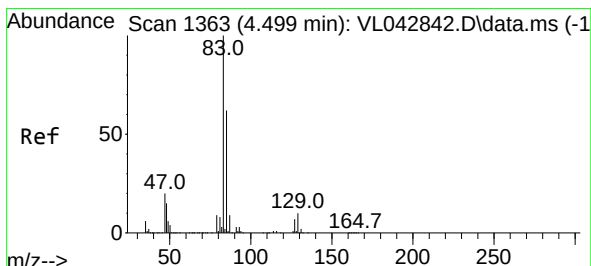
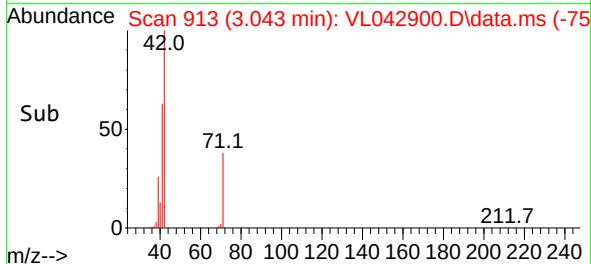
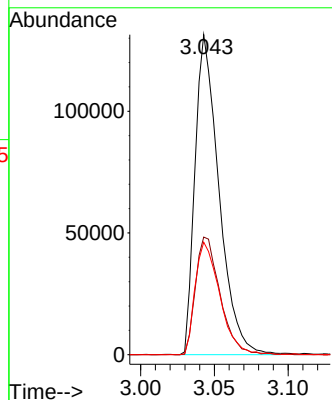
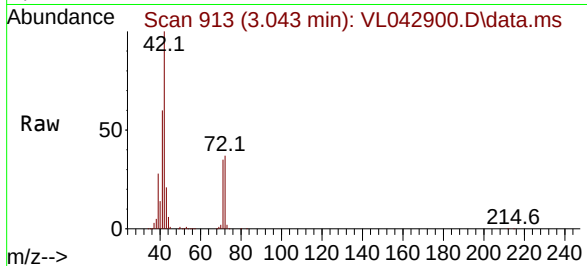




#41
Tetrahydrofuran
Concen: 11.863 ppbv
RT: 3.043 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

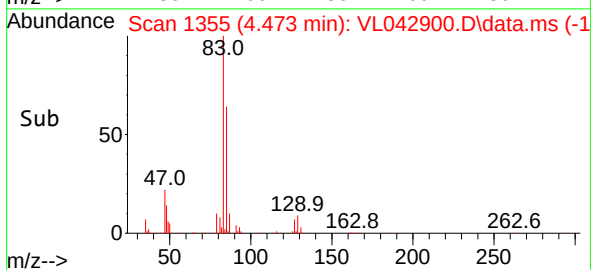
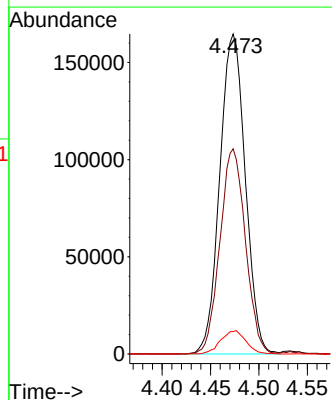
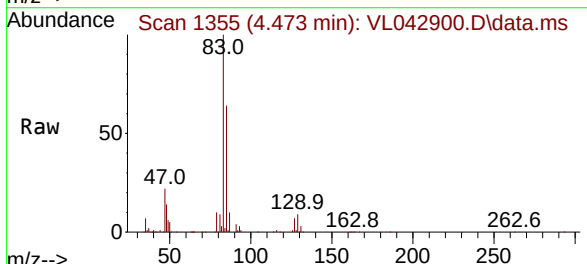
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

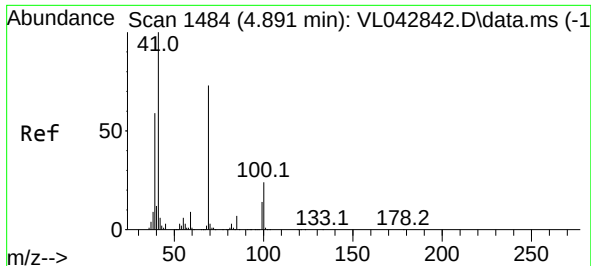
Tgt Ion: 42 Resp: 148990
Ion Ratio Lower Upper
42 100
72 37.6 32.6 48.8
71 36.3 30.0 45.0



#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

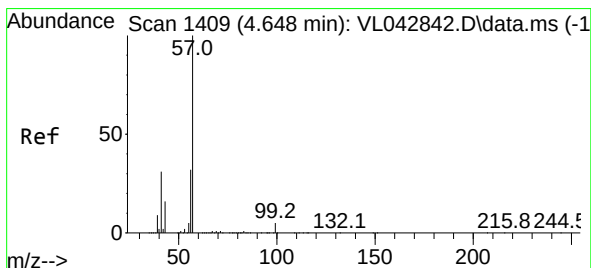
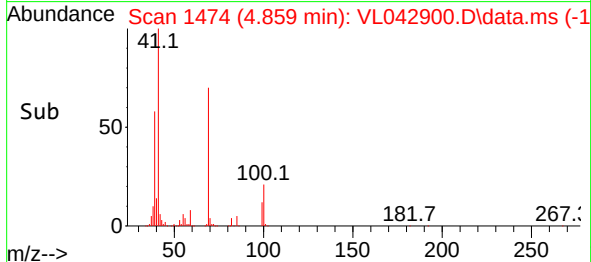
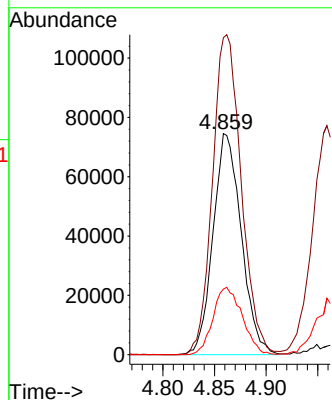
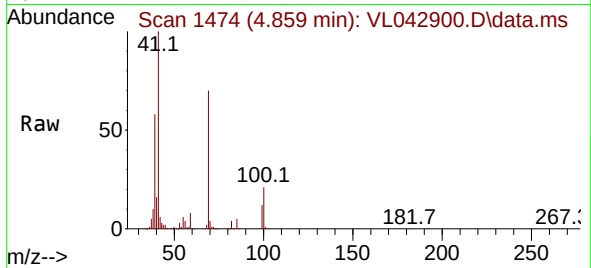




#43
Methyl Methacrylate
Concen: 10.776 ppbv
RT: 4.859 min Scan# 1417
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

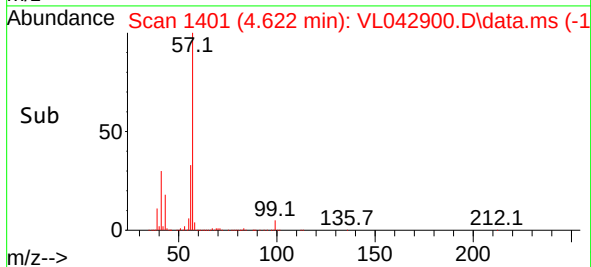
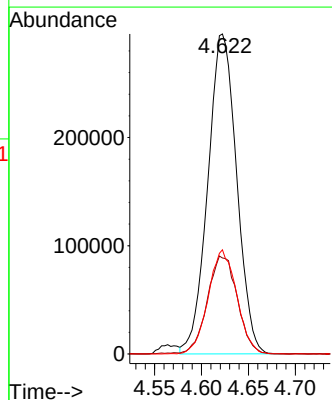
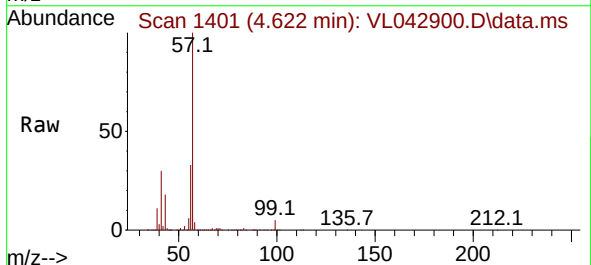
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

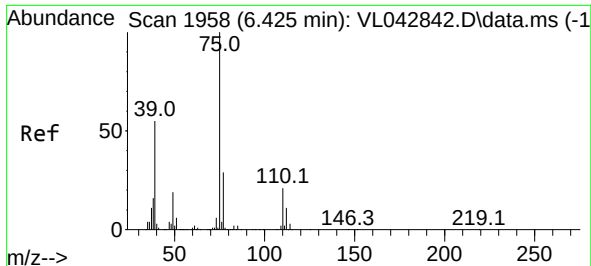
Tgt Ion: 69 Resp: 141813
Ion Ratio Lower Upper
69 100
41 147.4 114.6 172.0
100 31.5 30.2 45.4



#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 :

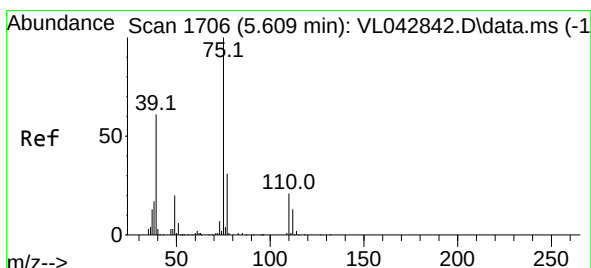
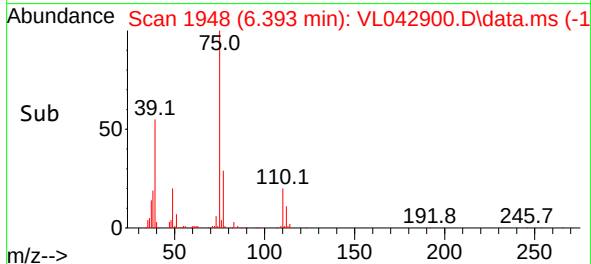
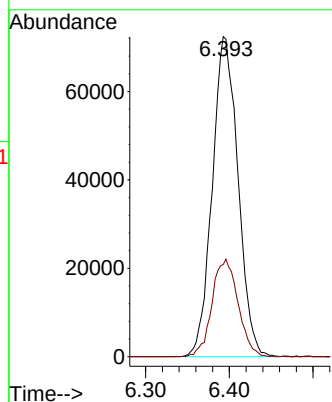
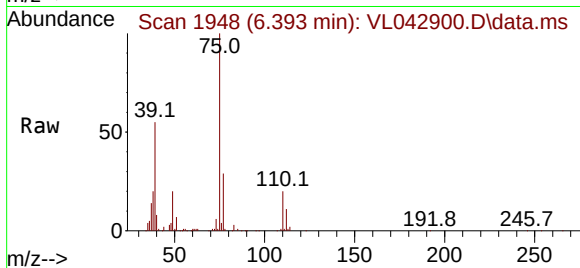
VSTDCCC010

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

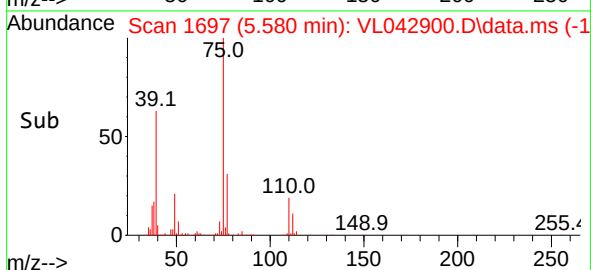
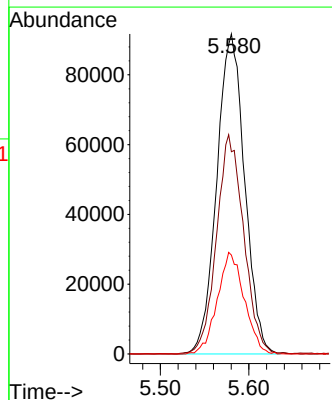
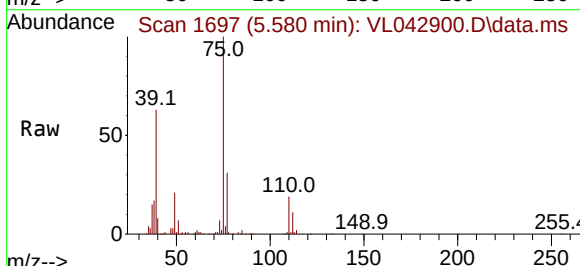
Tgt Ion: 75 Resp: 200797

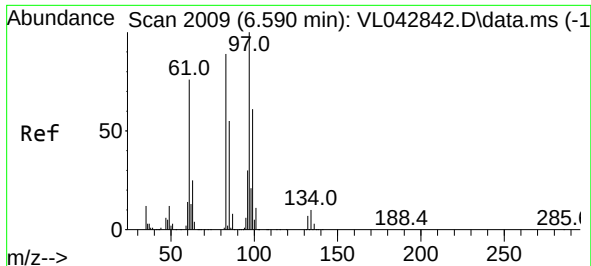
Ion Ratio Lower Upper

75 100

39 63.0 48.9 73.3

77 30.9 24.9 37.3

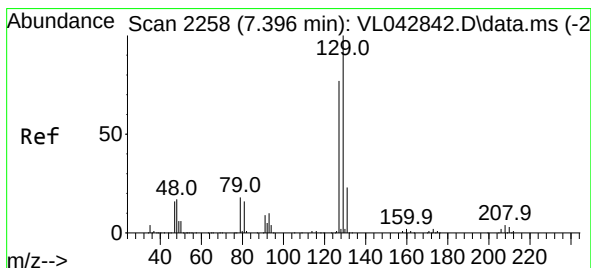
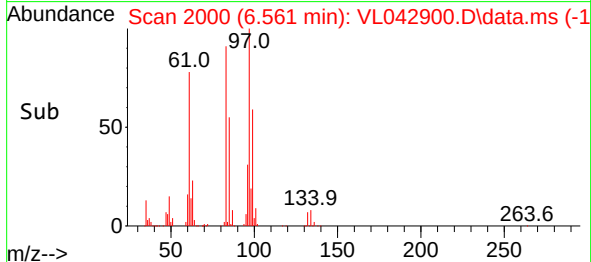
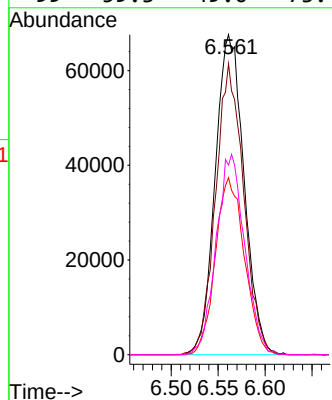
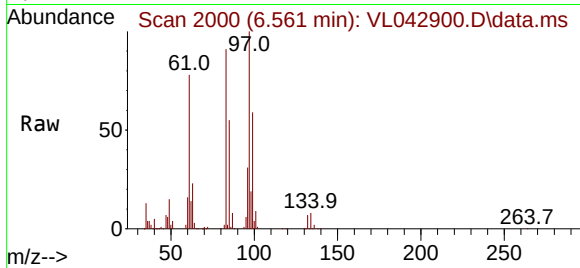




#47
1,1,2-Trichloroethane
Concen: 11.666 ppbv
RT: 6.561 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

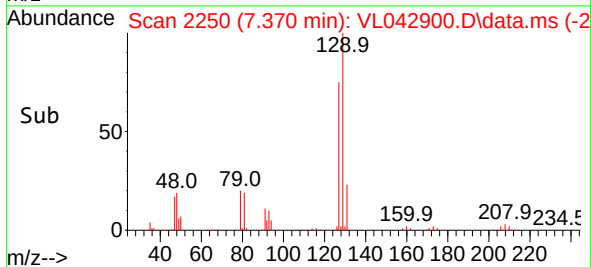
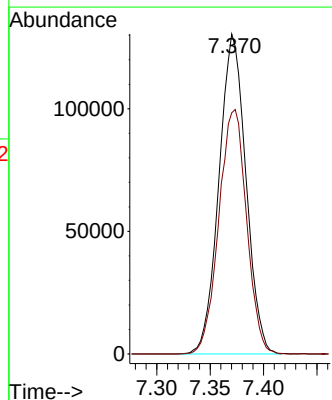
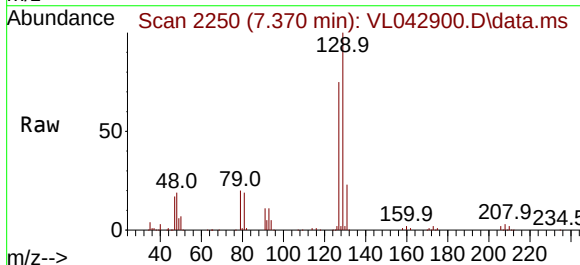
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

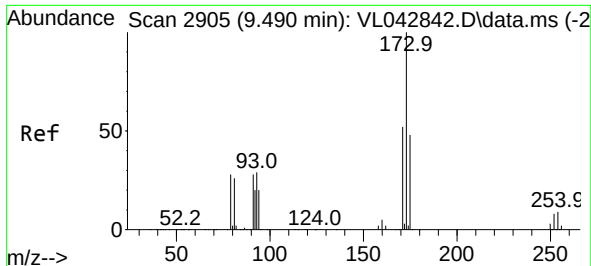
Tgt Ion:	97	Resp:	144209
Ion	Ratio	Lower	Upper
97	100		
83	90.9	71.0	106.4
85	55.2	43.6	65.4
99	59.3	49.0	73.4



#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

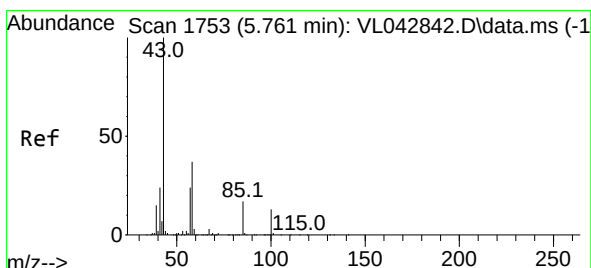
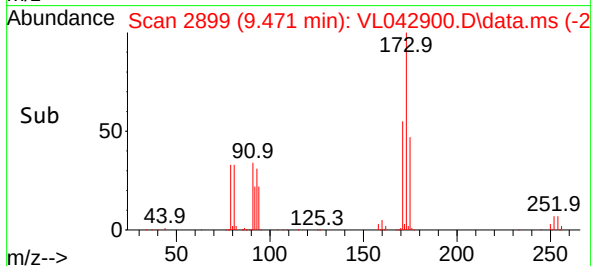
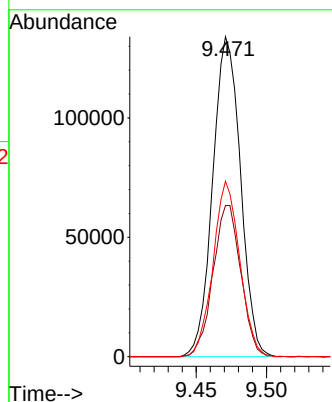
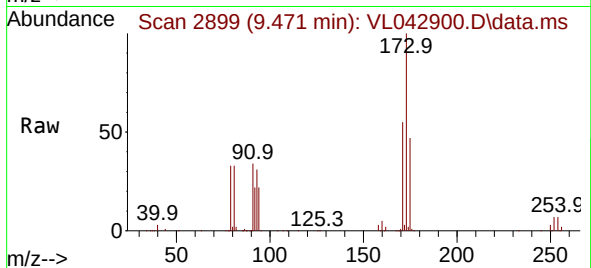
Tgt Ion:173 Resp: 184068

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

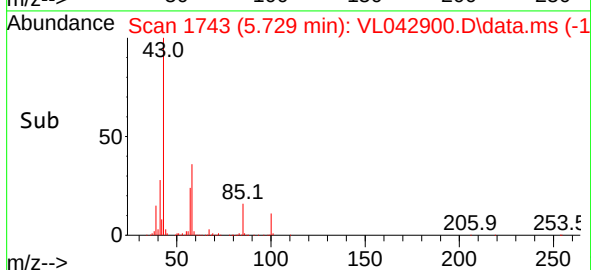
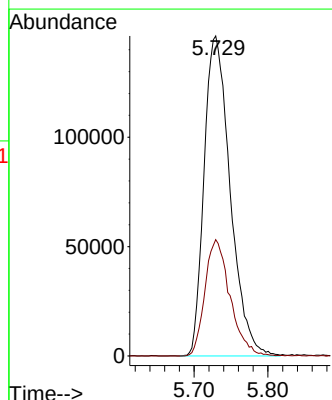
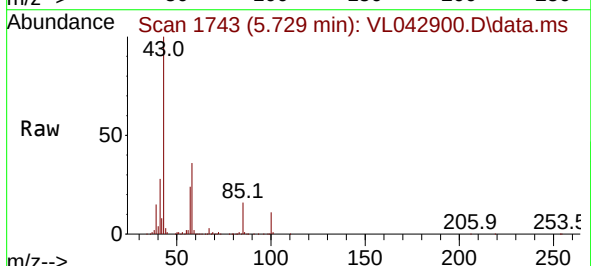
Acq: 08 Sep 2025 11:05

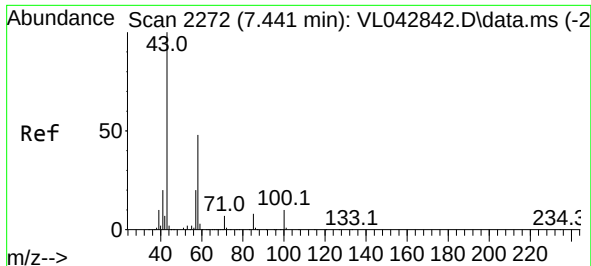
Tgt Ion: 43 Resp: 359329

Ion Ratio Lower Upper

43 100

58 35.0 29.8 44.8

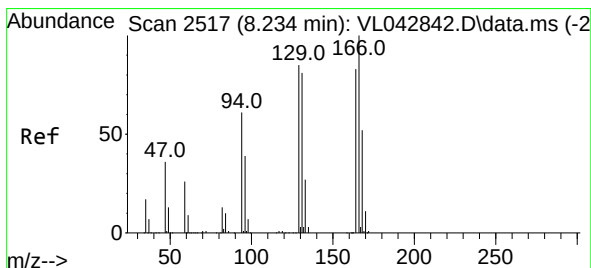
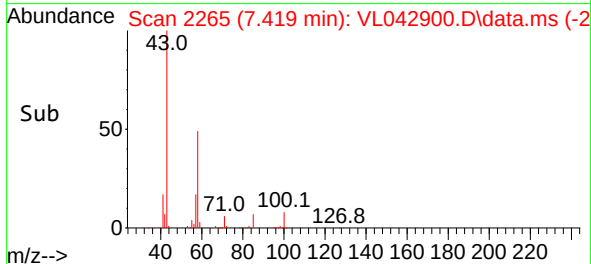
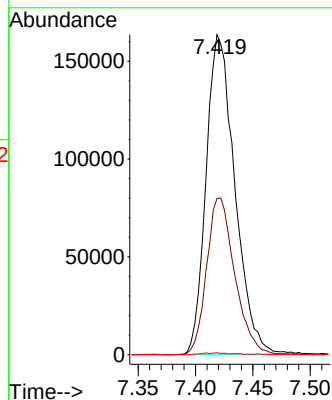
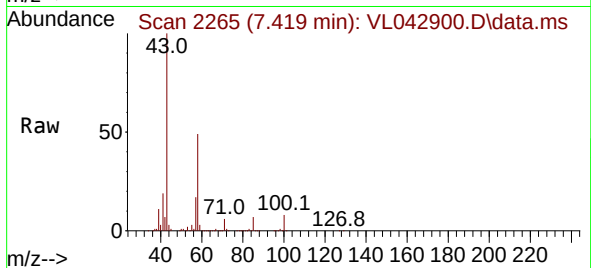




#51
2-Hexanone
Concen: 11.872 ppbv
RT: 7.419 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

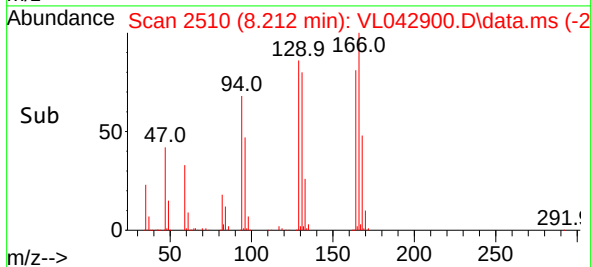
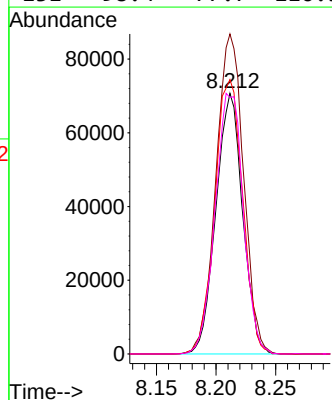
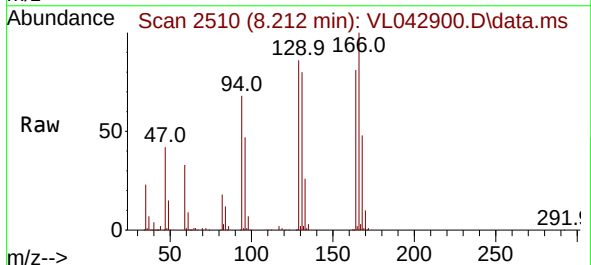
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

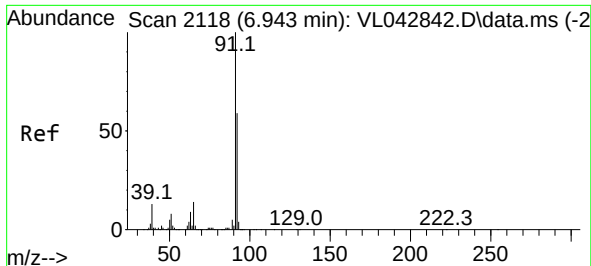
Tgt Ion: 43 Resp: 284454
Ion Ratio Lower Upper
43 100
58 48.1 41.0 61.6
98 0.7 0.1 0.1#



#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

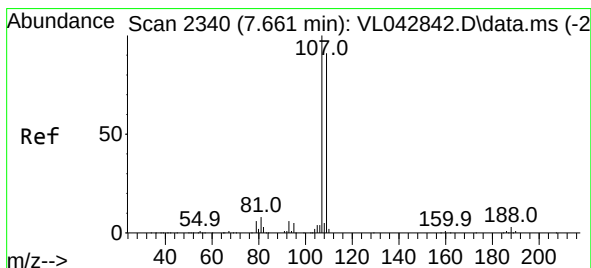
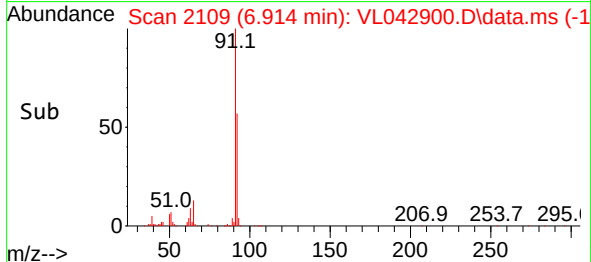
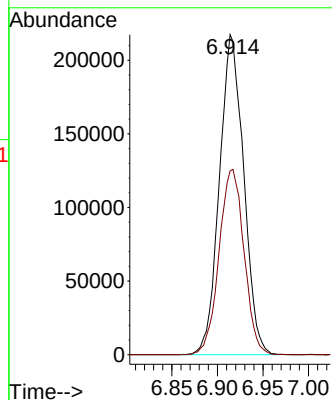
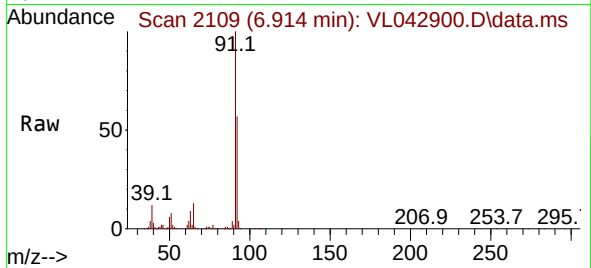




#53
Toluene
Concen: 10.587 ppbv
RT: 6.914 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

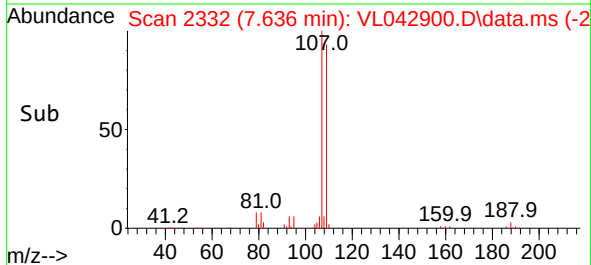
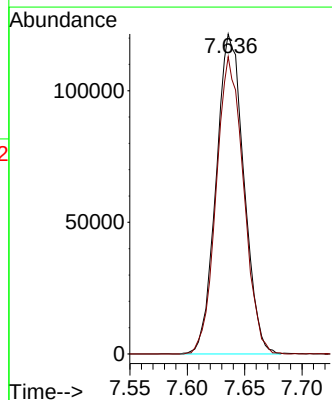
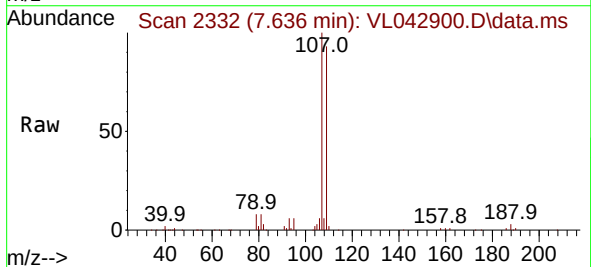
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

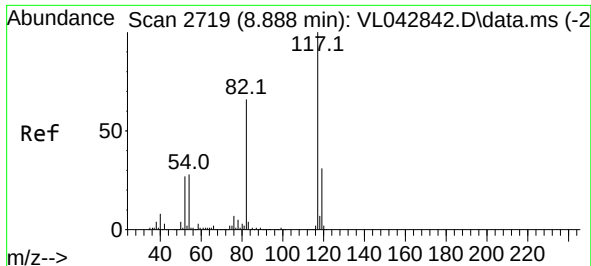
Tgt Ion: 91 Resp: 402080
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#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

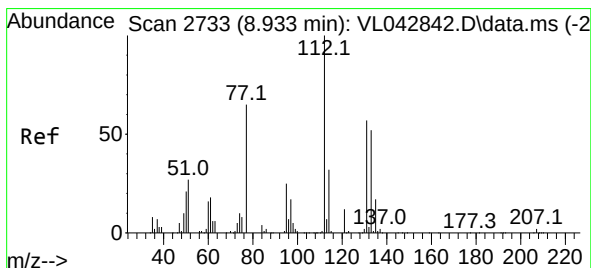
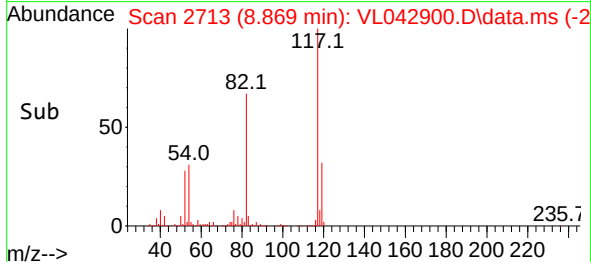
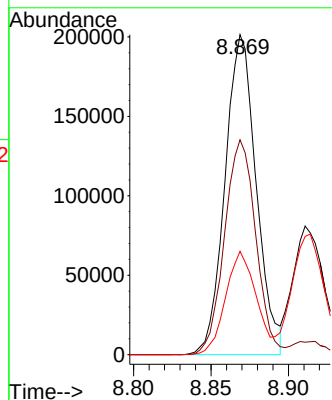
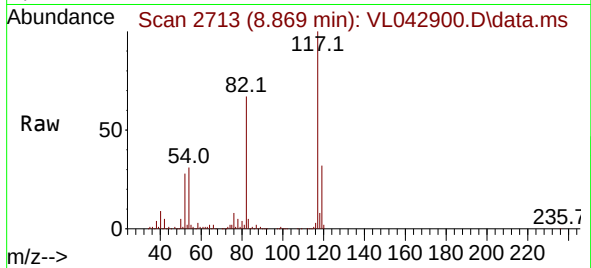




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

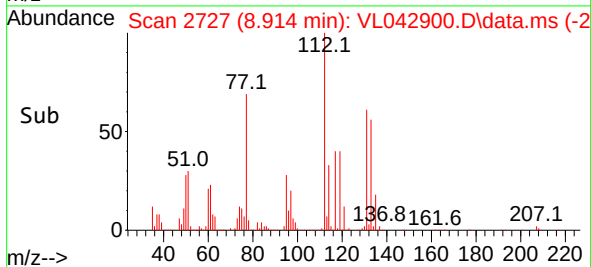
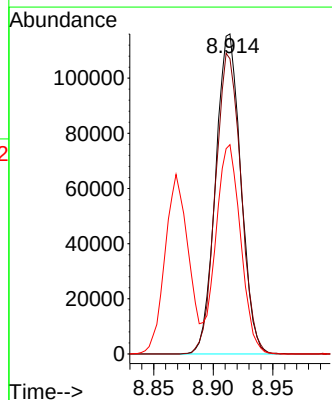
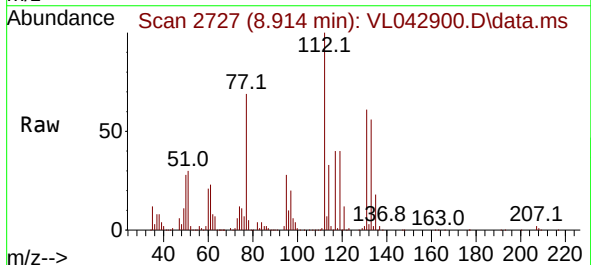
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

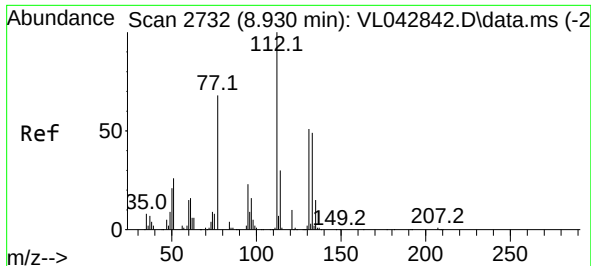
Tgt Ion:117 Resp: 282770
Ion Ratio Lower Upper
117 100
82 71.7 54.6 81.8
119 33.1 25.9 38.9



#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

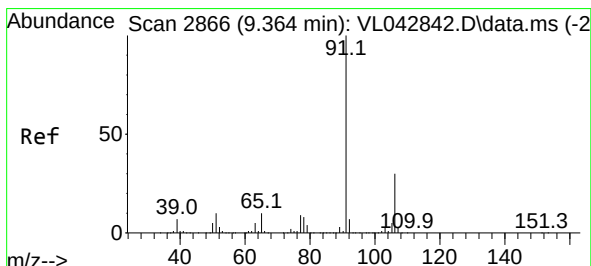
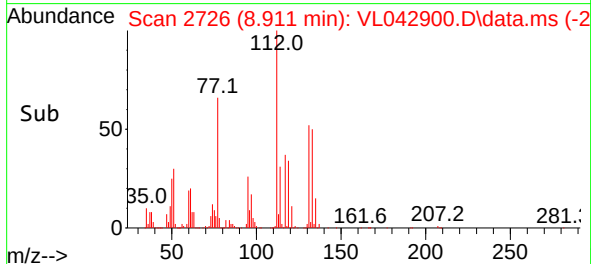
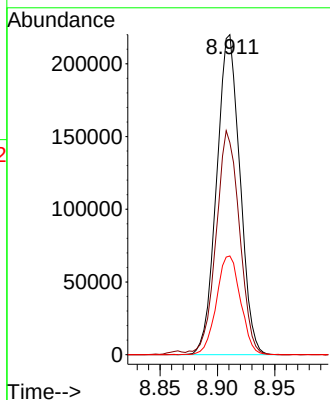
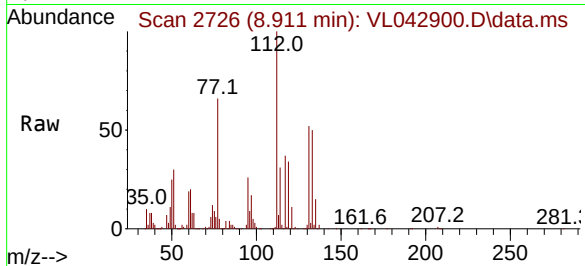




#57
Chlorobenzene
Concen: 11.581 ppbv
RT: 8.911 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

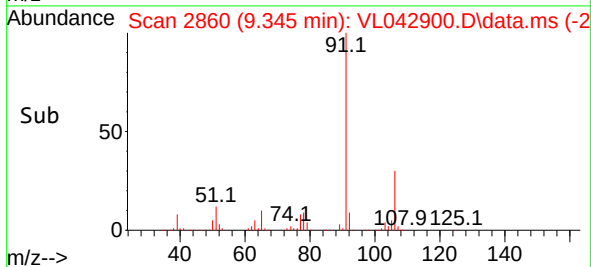
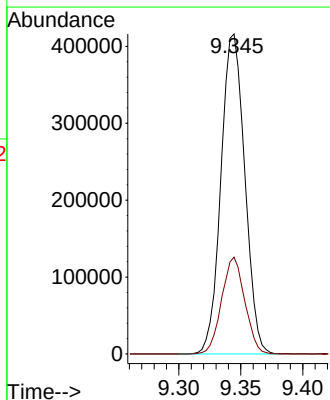
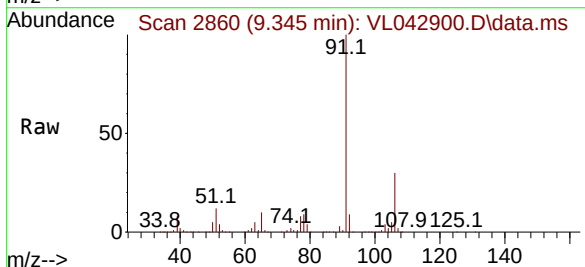
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

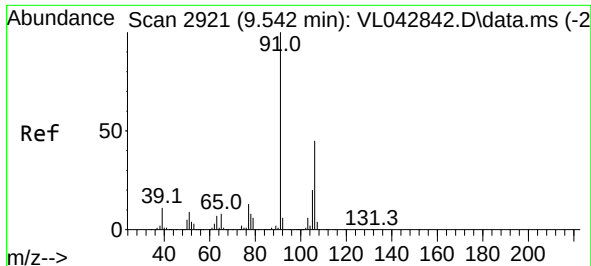
Tgt Ion:112 Resp: 311373
Ion Ratio Lower Upper
112 100
77 66.1 55.5 83.3
114 30.8 27.2 33.2



#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# 29

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

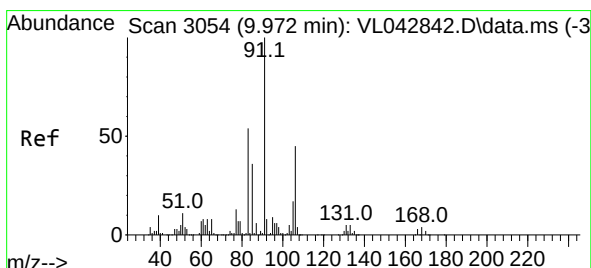
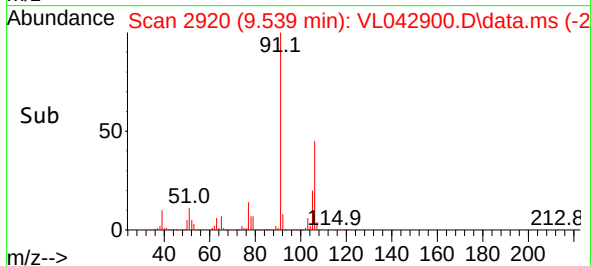
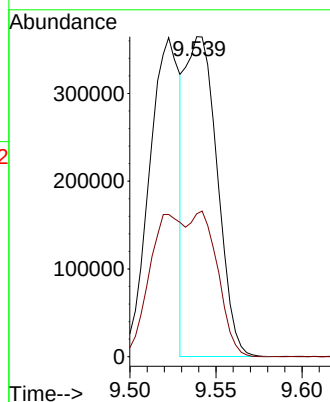
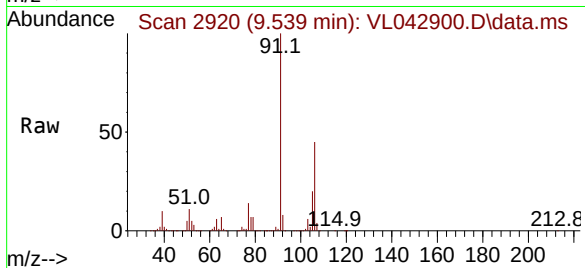
VSTDCCC010

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

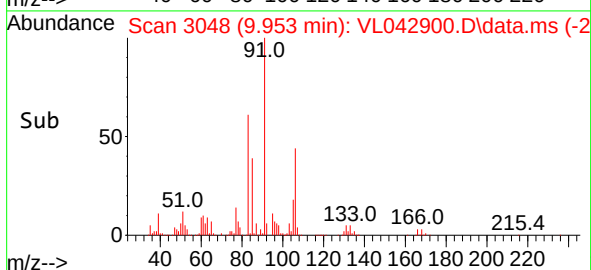
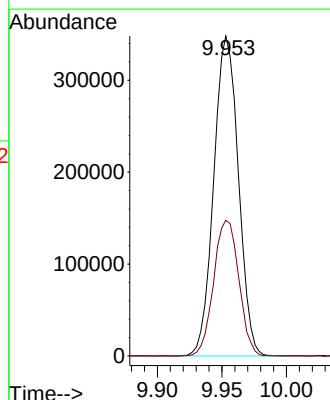
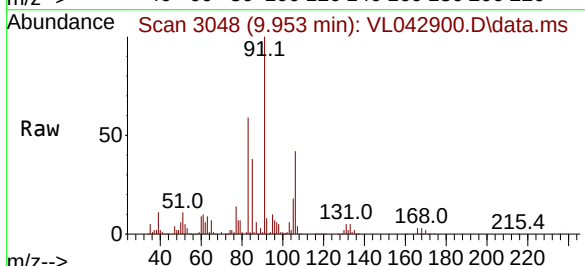
Acq: 08 Sep 2025 11:05

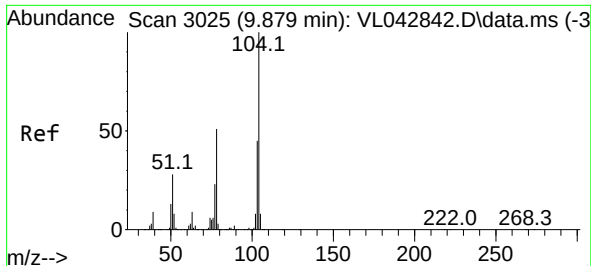
Tgt Ion: 91 Resp: 460968

Ion Ratio Lower Upper

91 100

106 43.4 21.8 65.4

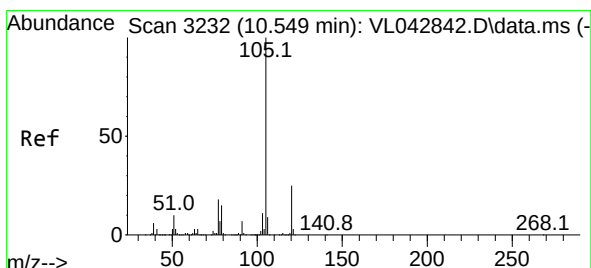
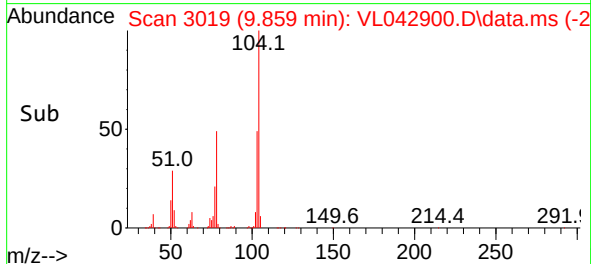
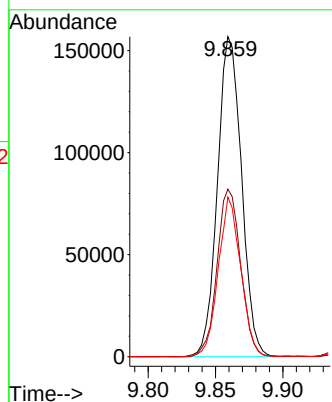
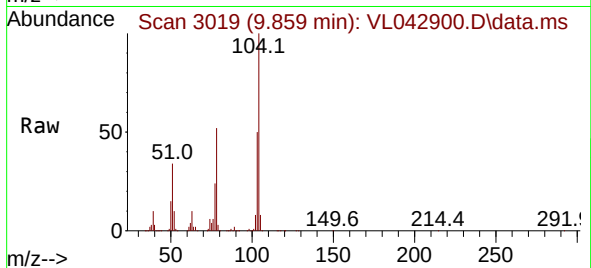




#61
Styrene
Concen: 10.579 ppbv
RT: 9.859 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

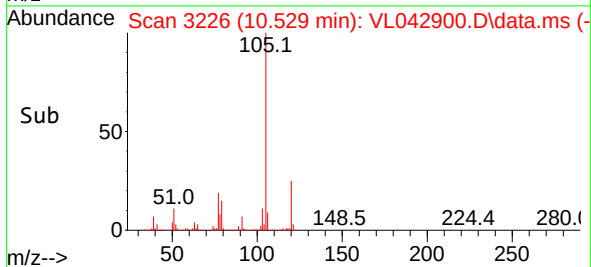
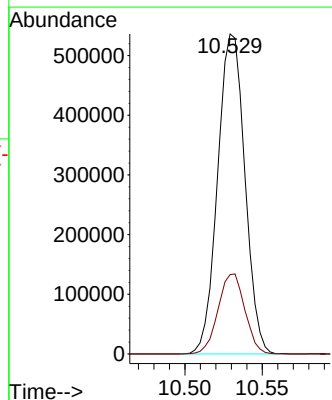
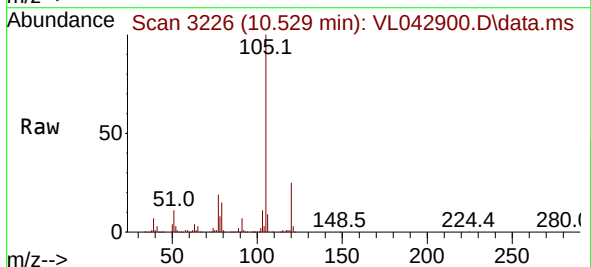
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

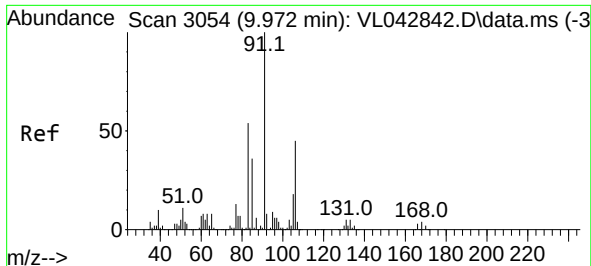
Tgt Ion:104 Resp: 195007
Ion Ratio Lower Upper
104 100
78 51.3 40.6 61.0
103 46.6 37.7 56.5



#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

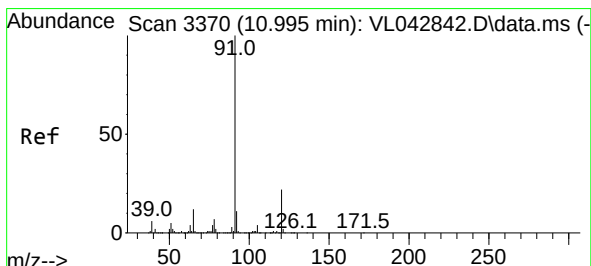
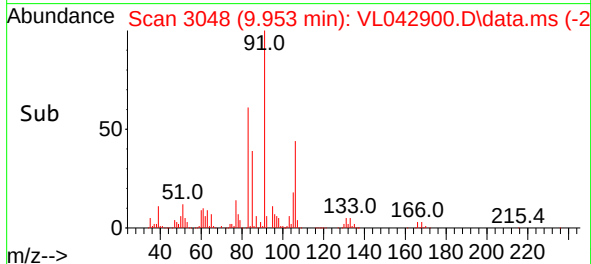
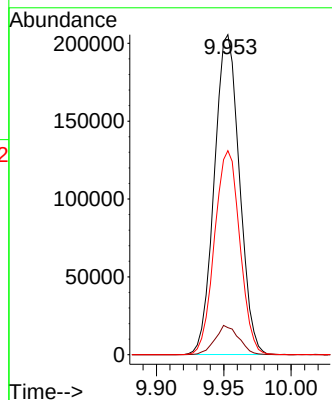
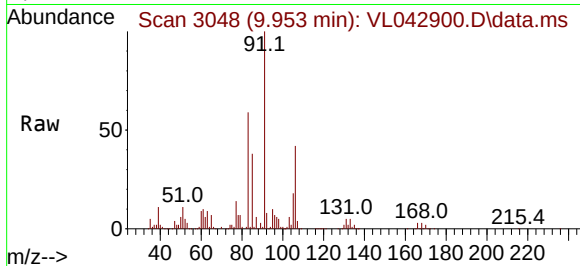




#63
1,1,2,2-Tetrachloroethane
Concen: 12.314 ppbv
RT: 9.953 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

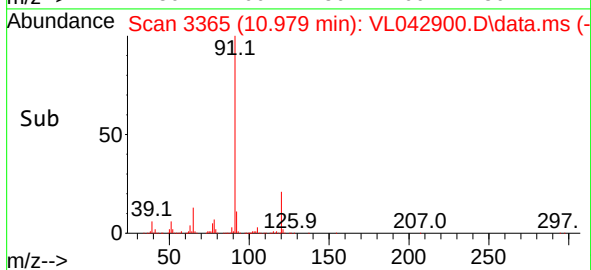
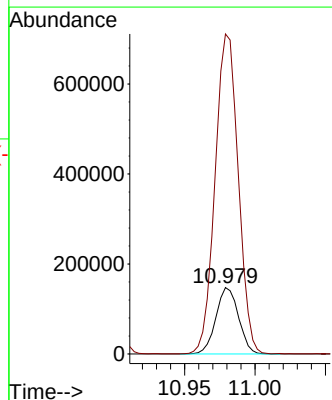
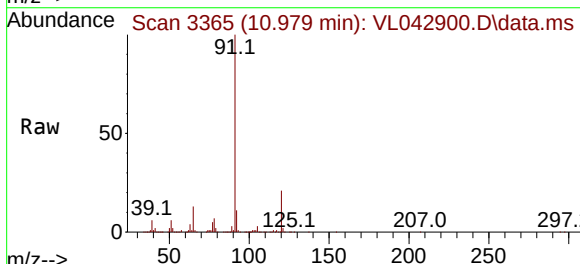
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

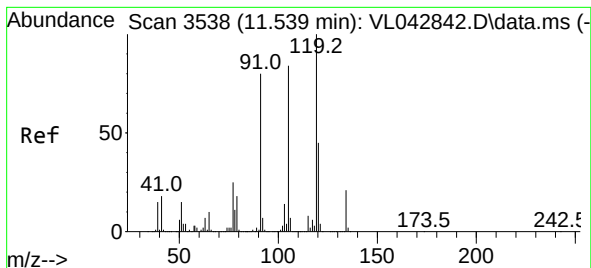
Tgt Ion: 83 Resp: 266435
Ion Ratio Lower Upper
83 100
131 8.7 4.8 14.3
85 64.5 32.3 96.8



#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

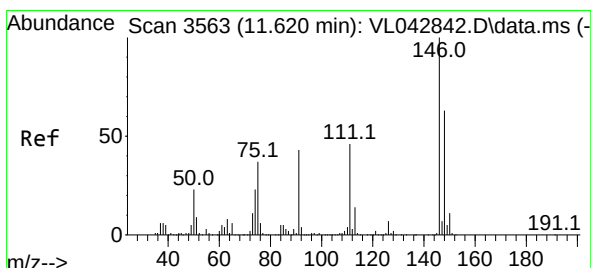
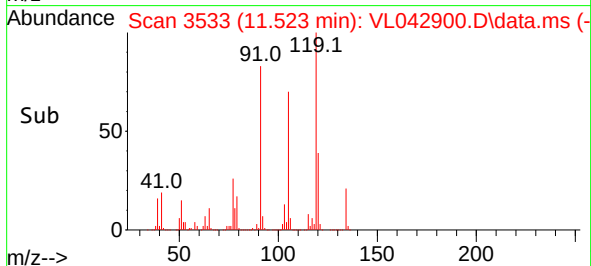
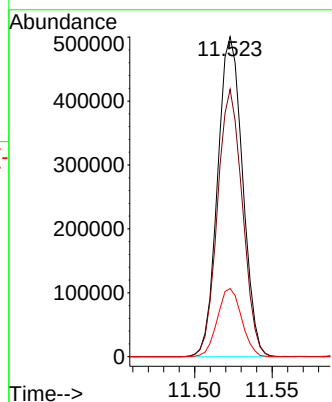
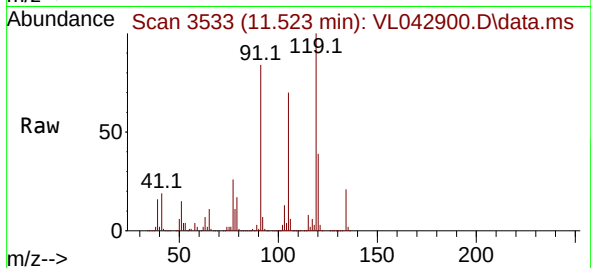




#65
tert-Butylbenzene
Concen: 11.075 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

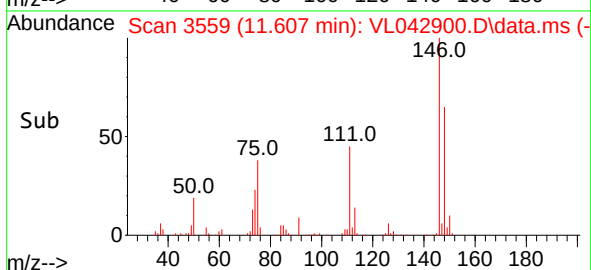
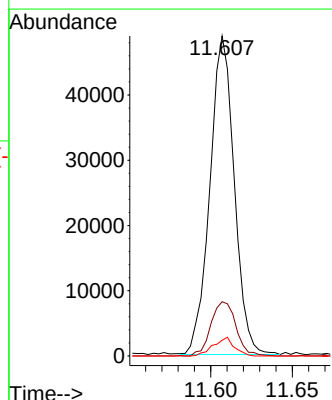
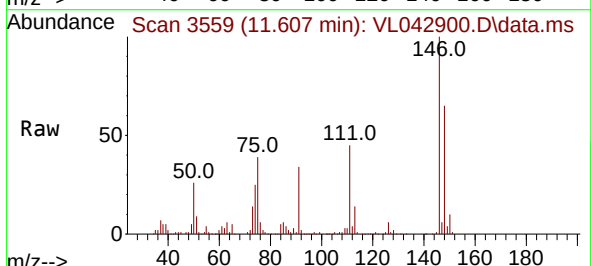
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

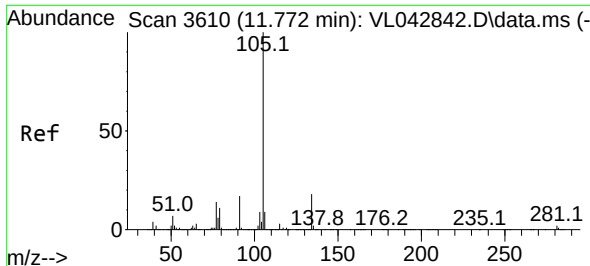
Tgt Ion:119 Resp: 561409
Ion Ratio Lower Upper
119 100
91 83.4 63.9 95.9
134 20.6 17.0 25.4



#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#

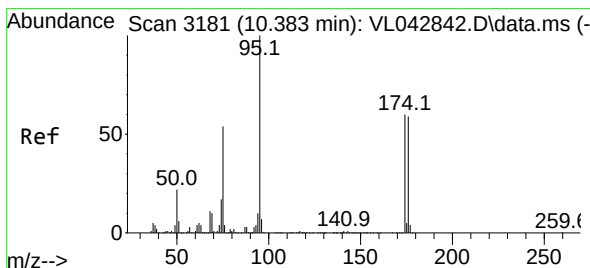
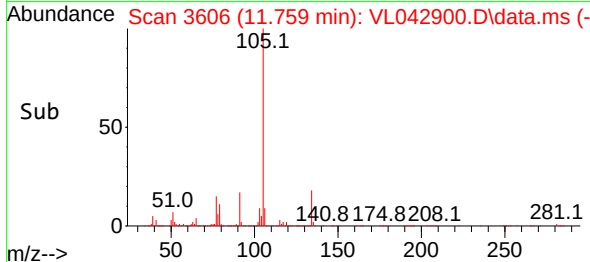
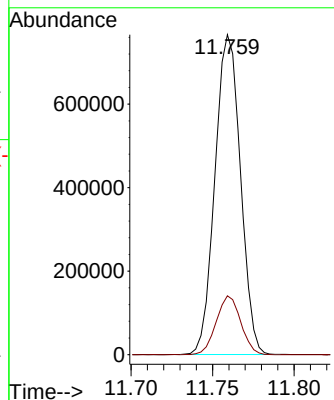
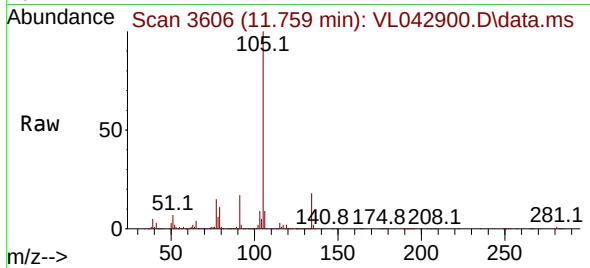




#67
 sec-Butylbenzene
 Concen: 11.709 ppbv
 RT: 11.759 min Scan# 3606
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

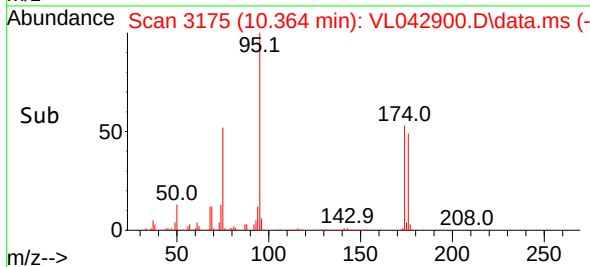
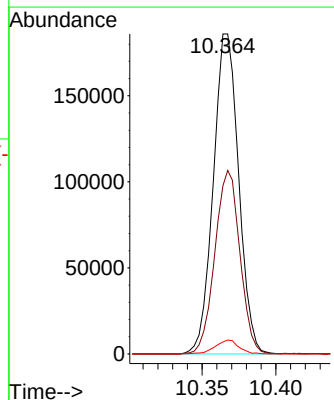
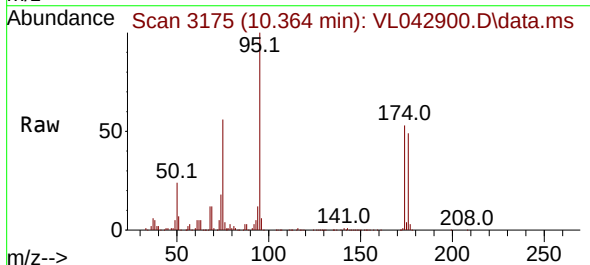
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

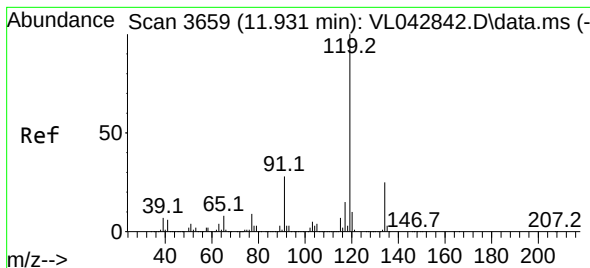
Tgt Ion:105 Resp: 833114
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.9 22.3



#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

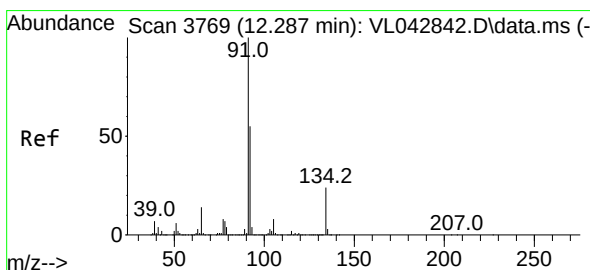
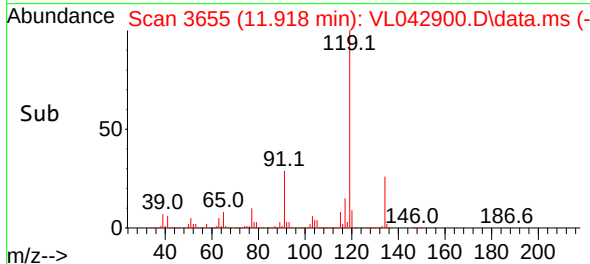
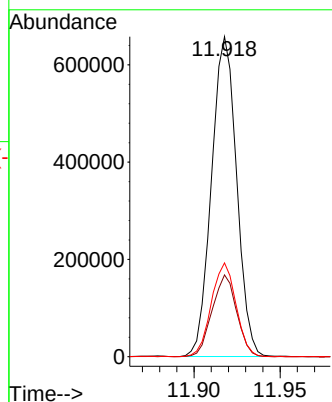
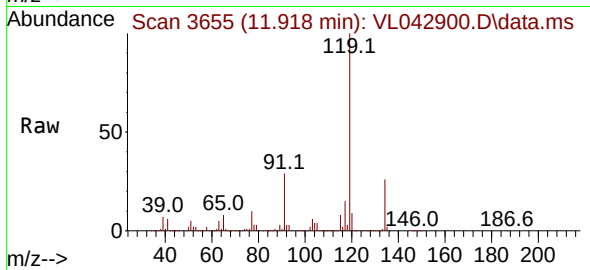




#69
 p-Isopropyltoluene
 Concen: 10.929 ppbv
 RT: 11.918 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

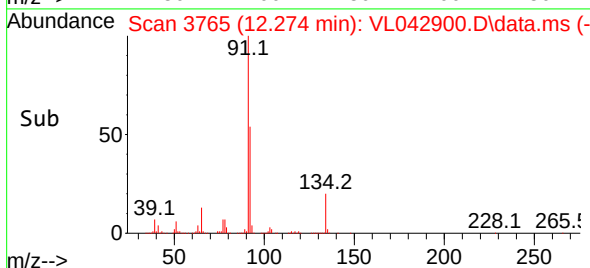
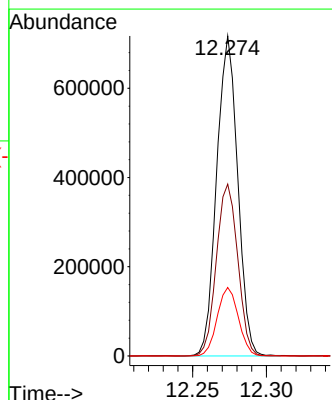
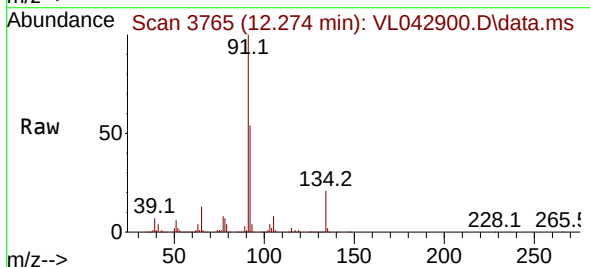
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

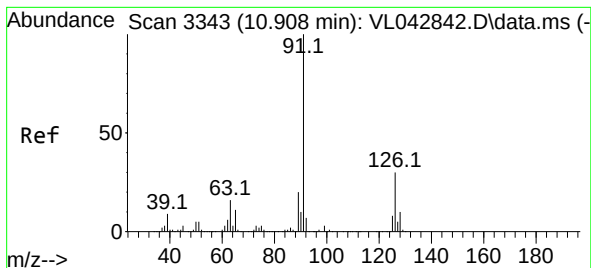
Tgt Ion:119 Resp: 667558
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.6 30.8
 91 29.0 22.6 34.0



#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

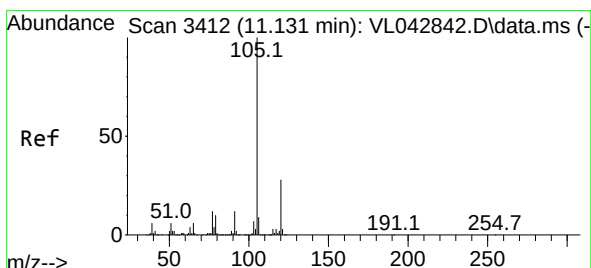
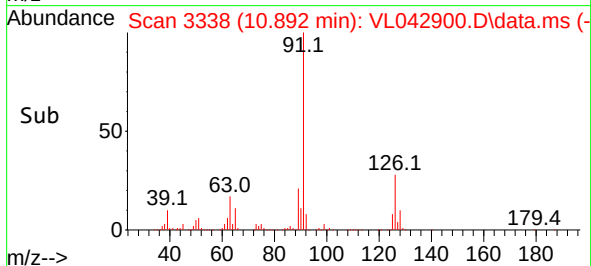
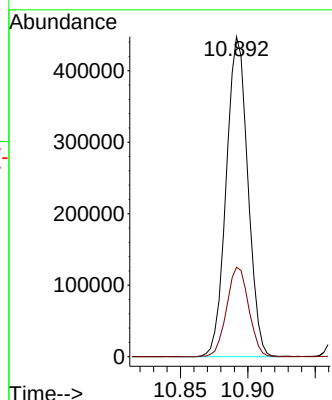
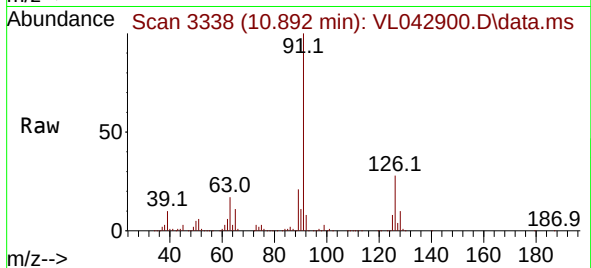




#71
2-Chlorotoluene
Concen: 11.156 ppbv
RT: 10.892 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

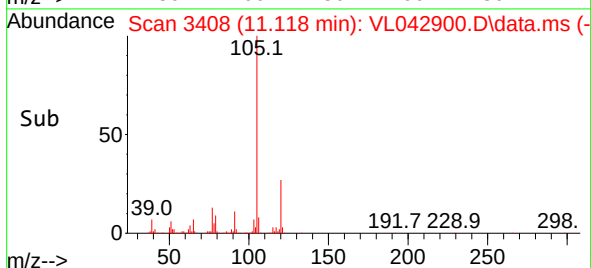
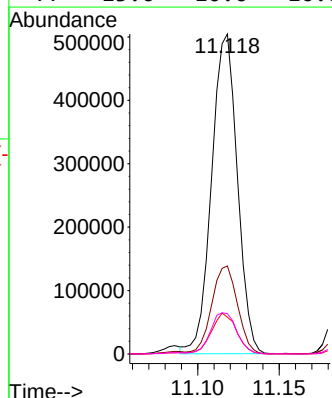
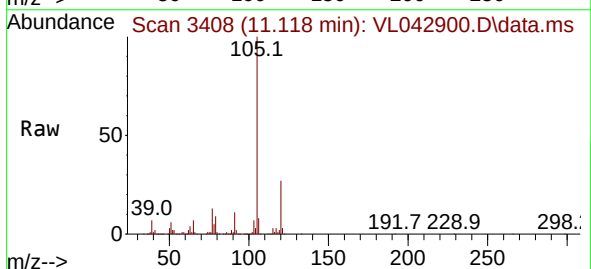
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

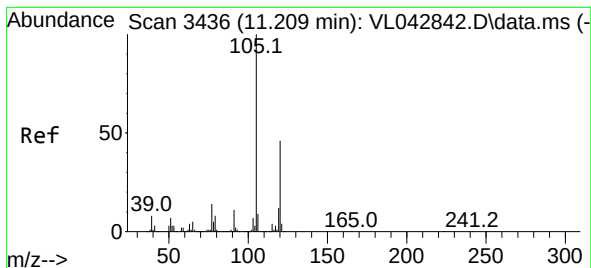
Tgt Ion: 91 Resp: 498072
Ion Ratio Lower Upper
91 100
126 28.5 12.0 47.8



#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# 34

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA_L

ClientSampleId :

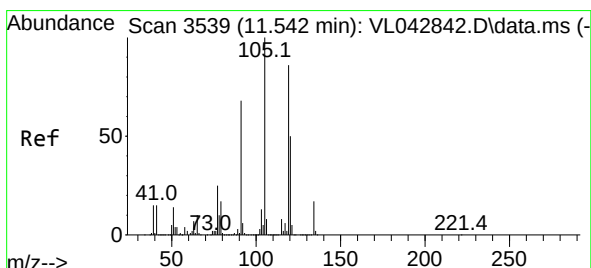
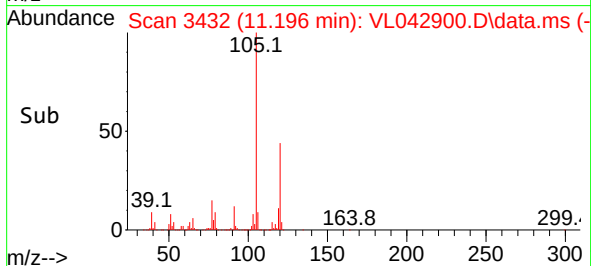
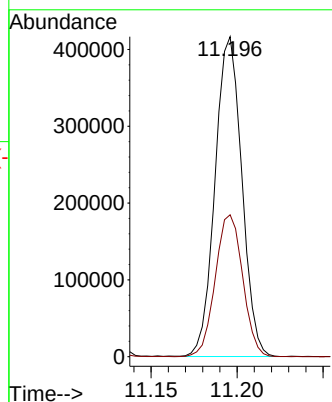
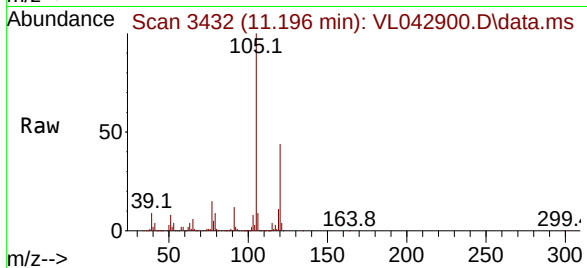
VSTDCCC010

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

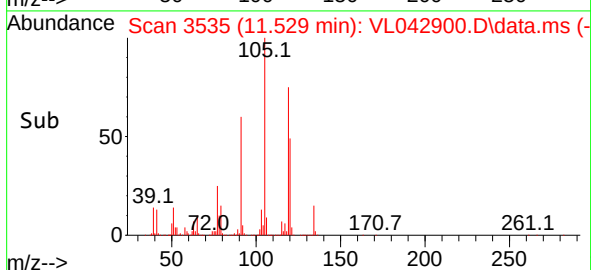
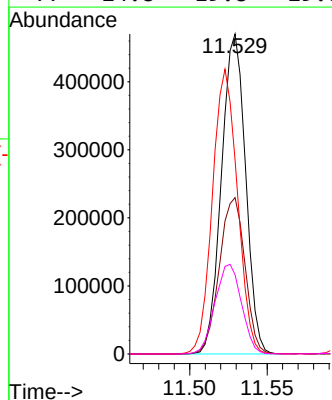
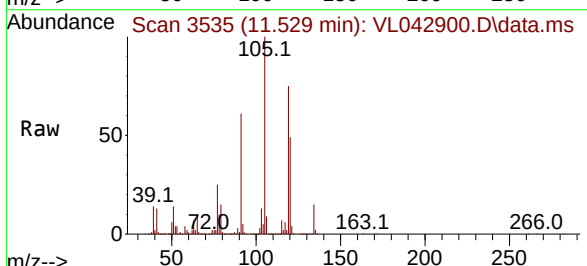
Ion Ratio Lower Upper

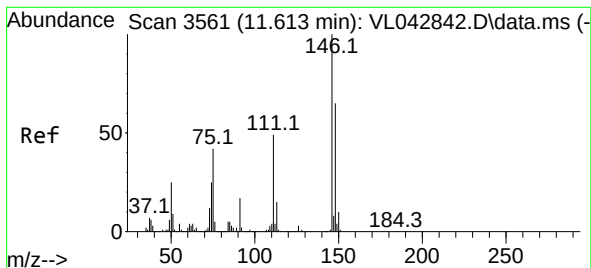
105 100

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

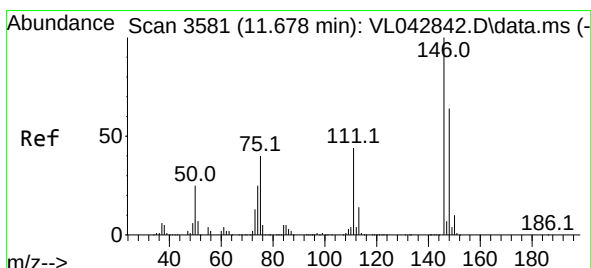
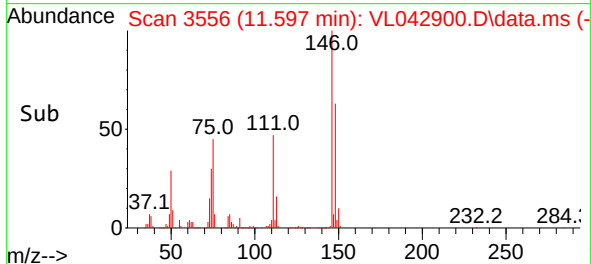
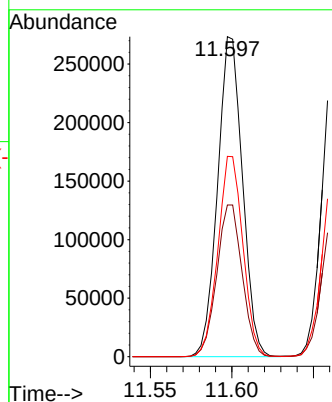
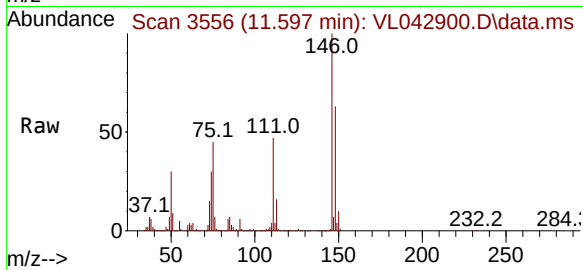
Tgt Ion:146 Resp: 289650

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

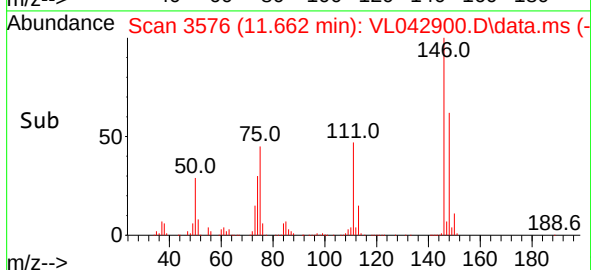
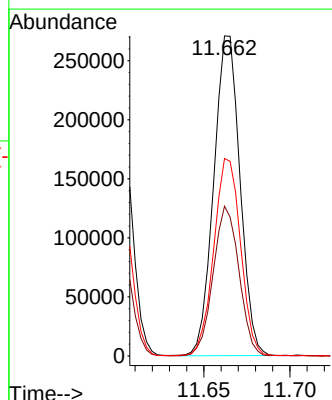
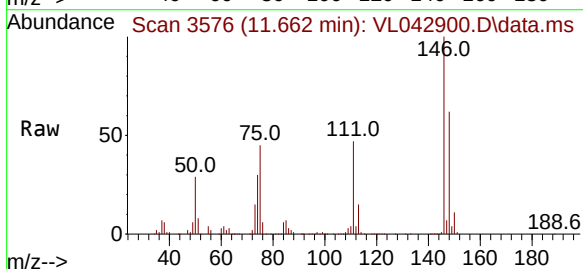
Tgt Ion:146 Resp: 287352

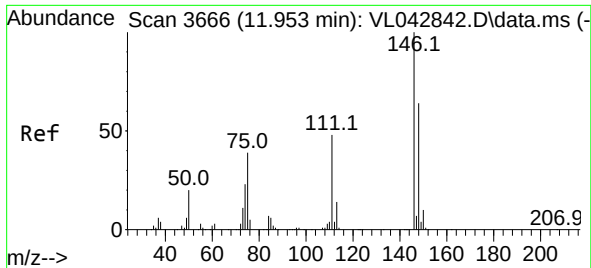
Ion Ratio Lower Upper

146 100

111 46.3 22.7 68.1

148 63.2 31.8 95.3

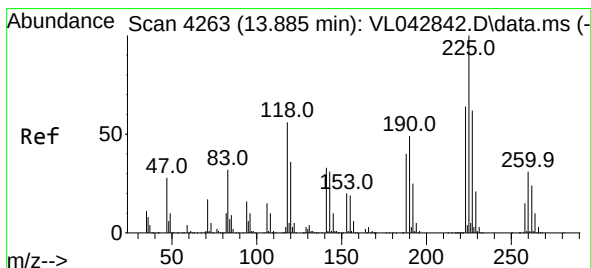
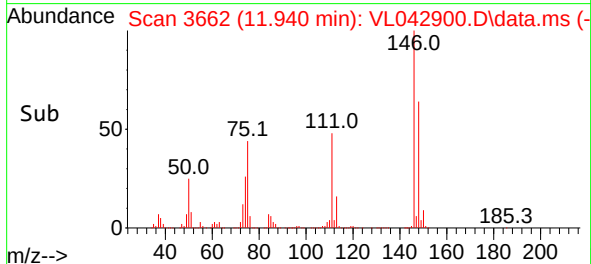
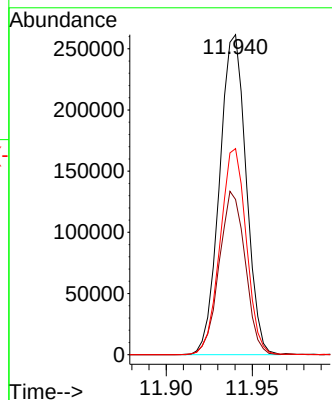
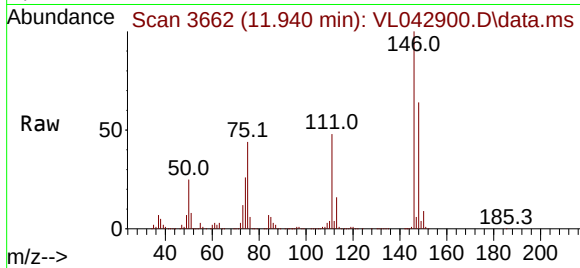




#77
 1,2-Dichlorobenzene
 Concen: 11.351 ppbv
 RT: 11.940 min Scan# 3666
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

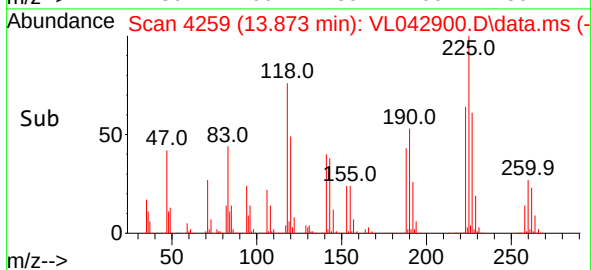
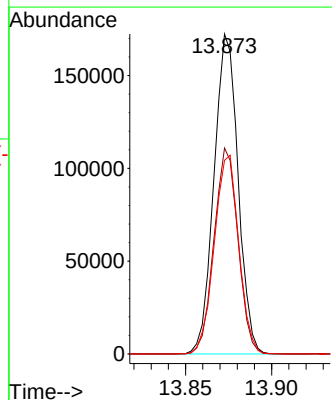
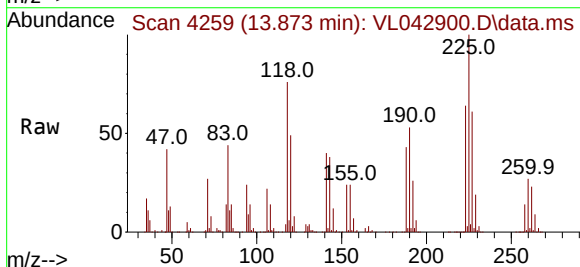
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

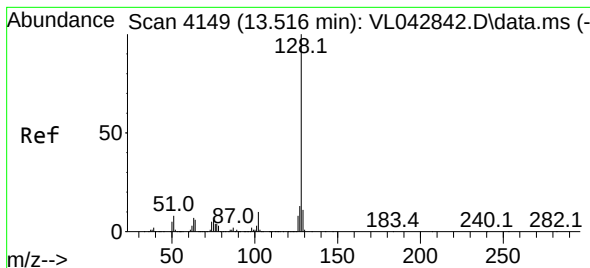
Tgt Ion:146 Resp: 281307
 Ion Ratio Lower Upper
 146 100
 111 50.0 24.6 74.0
 148 63.5 32.0 96.0



#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_L

ClientSampleId :

VSTDCCC010

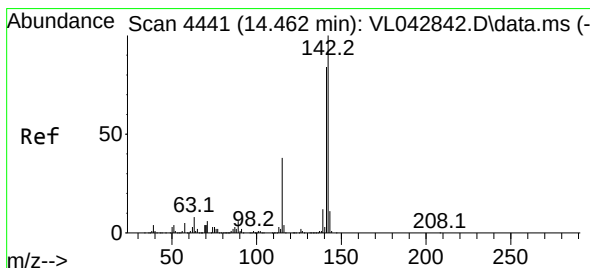
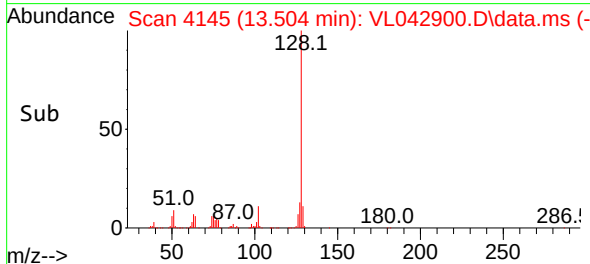
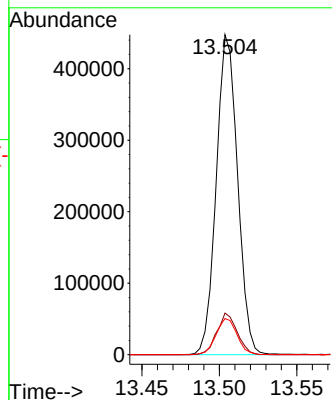
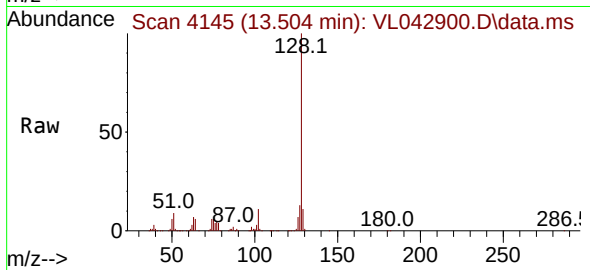
Tgt Ion:128 Resp: 428355

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

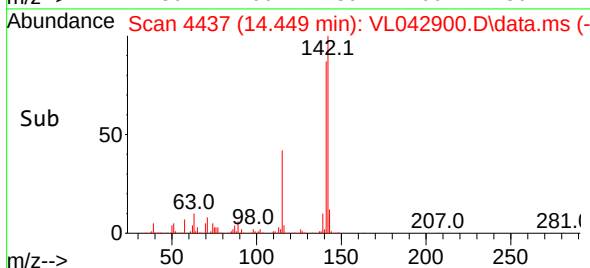
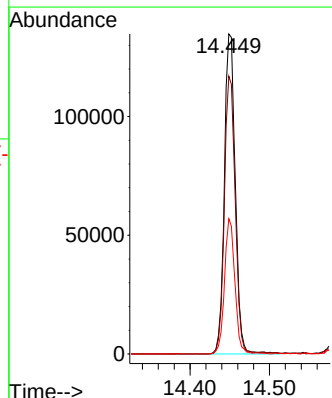
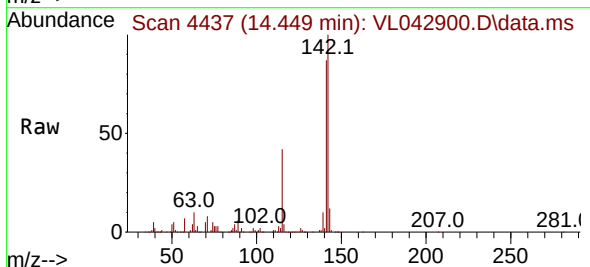
Tgt Ion:142 Resp: 127751

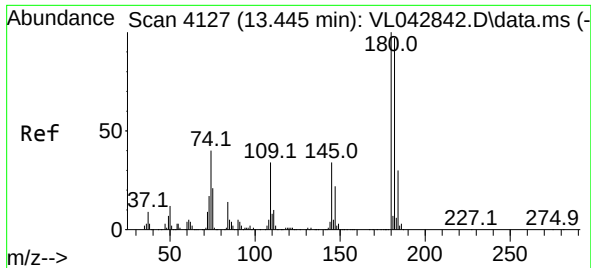
Ion Ratio Lower Upper

142 100

141 87.4 67.0 100.6

115 40.4 30.9 46.3

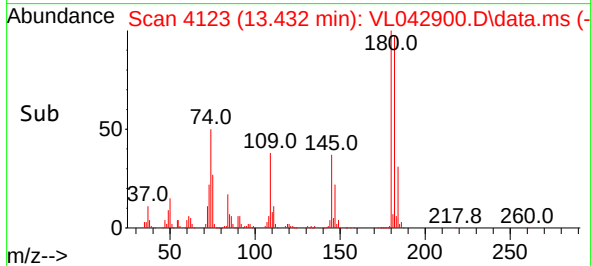
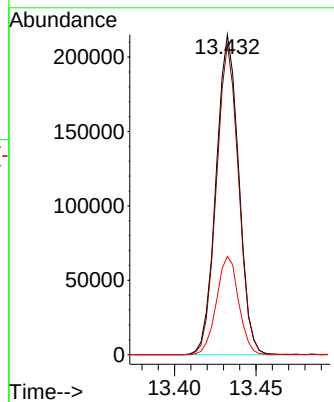
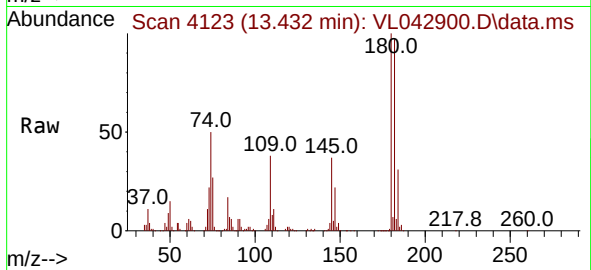




#81
 1,2,4-Trichlorobenzene
 Concen: 10.226 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042900.D
 Acq: 08 Sep 2025 11:05

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

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

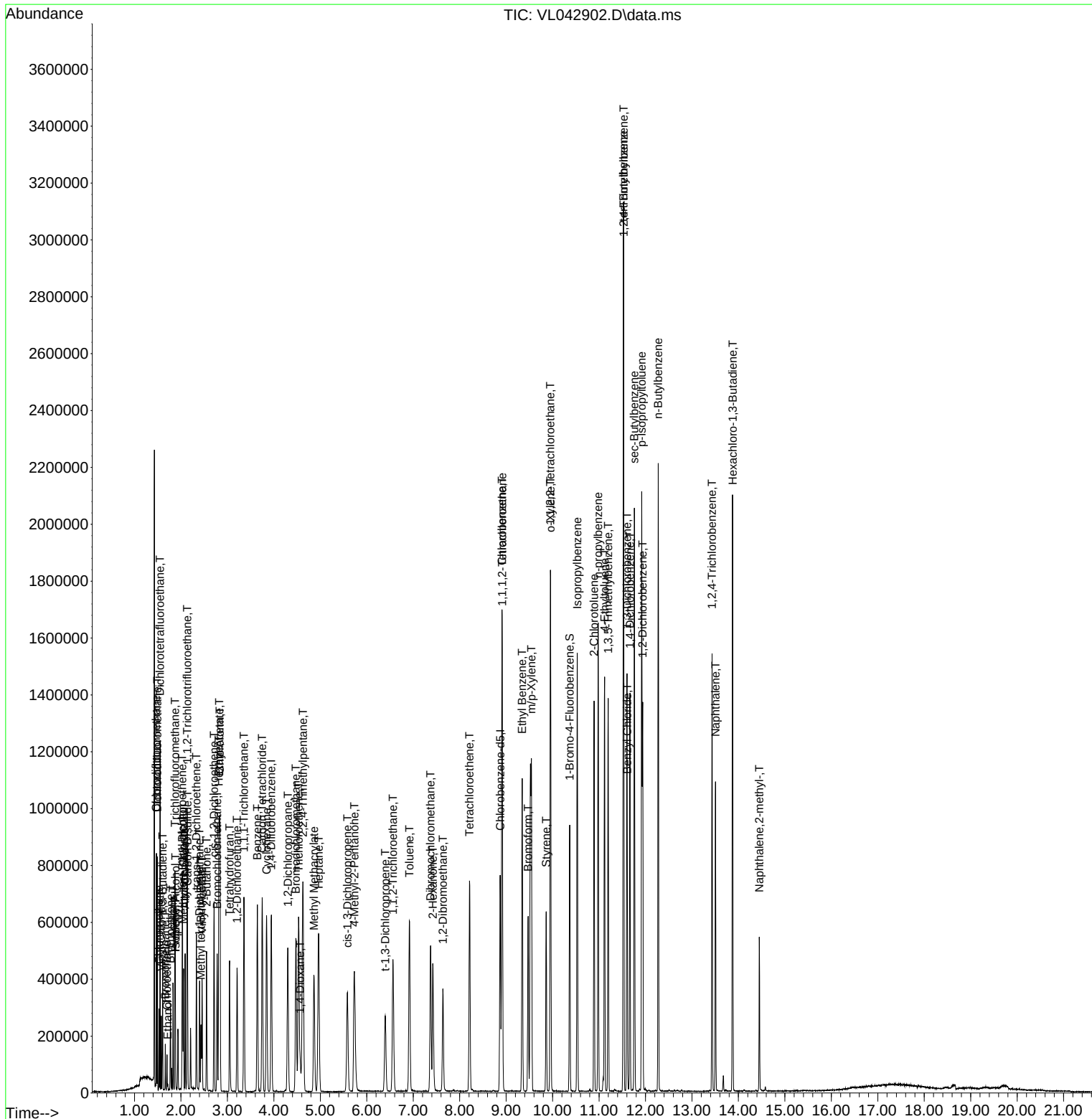
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 ClientSampleId :
 VL0908ABS01

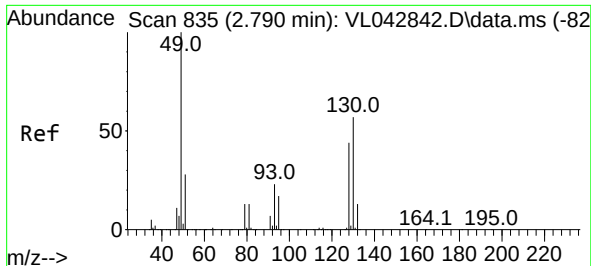
Quant Time: Sep 09 00:55:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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
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QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

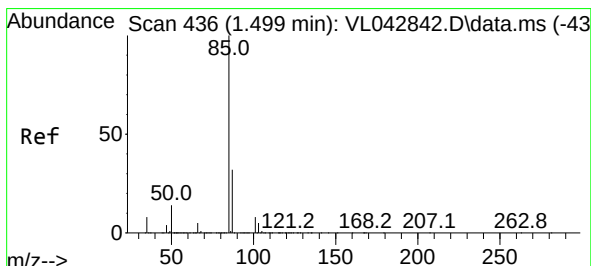
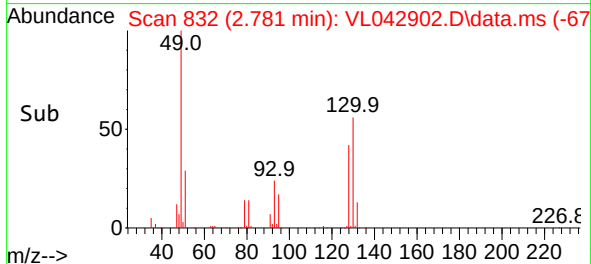
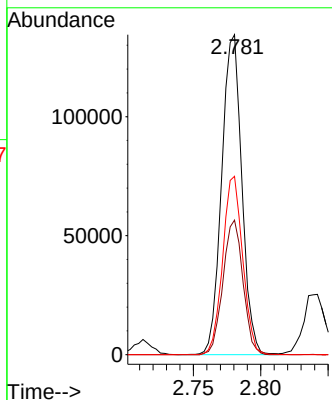
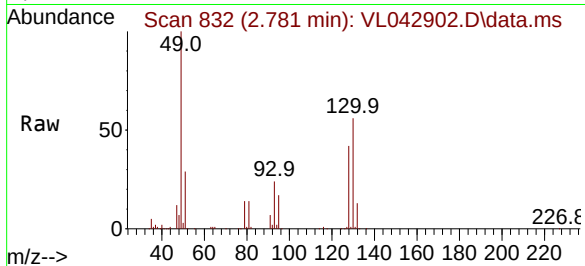




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

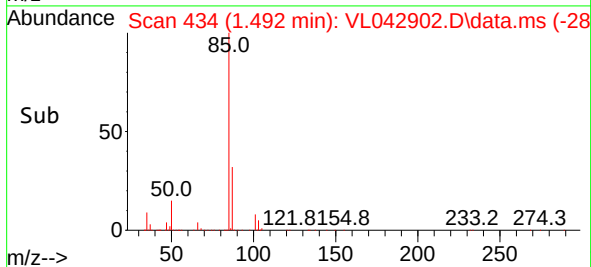
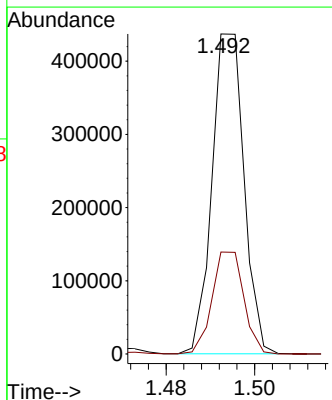
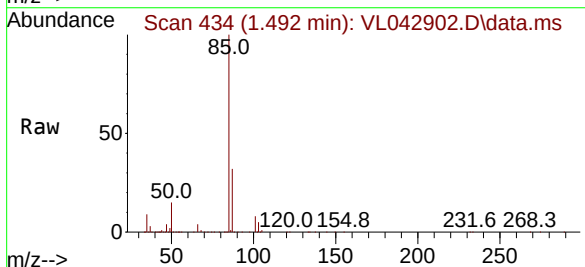
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

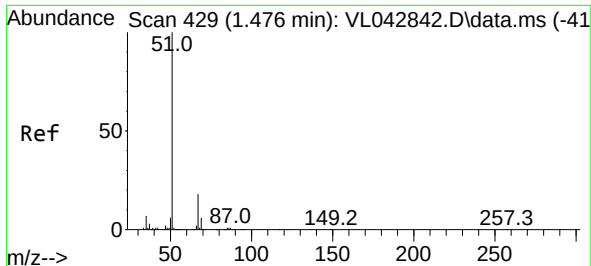
Tgt Ion: 49 Resp: 139945
Ion Ratio Lower Upper
49 100
128 41.6 23.7 71.1
130 55.2 30.6 91.6



#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

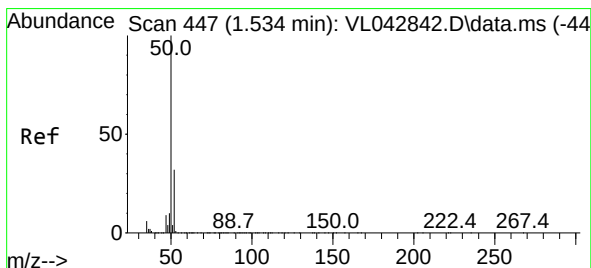
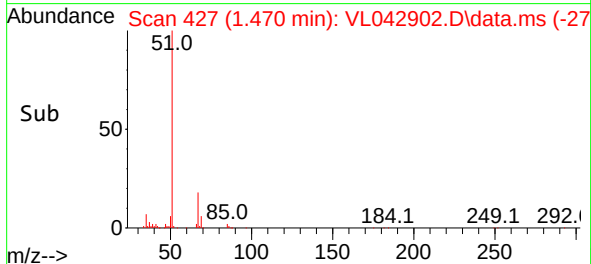
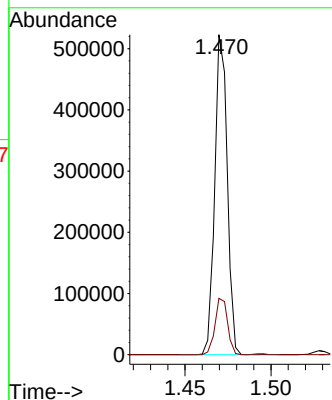
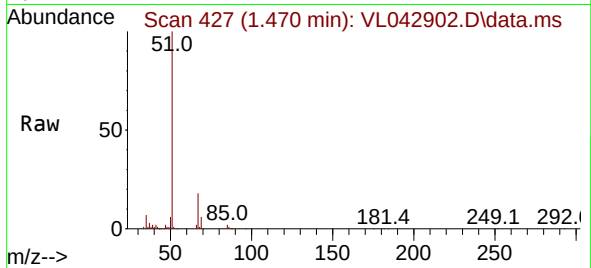




#3
Chlorodifluoromethane
Concen: 11.627 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

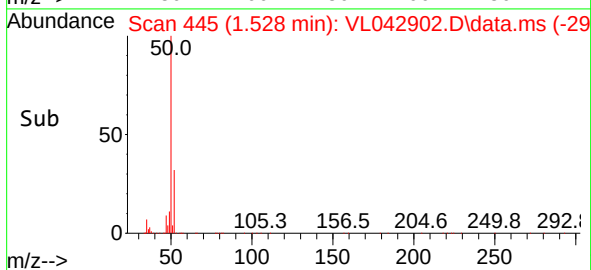
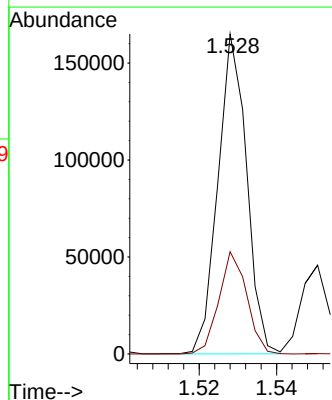
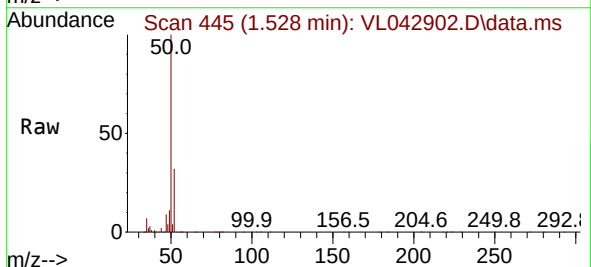
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

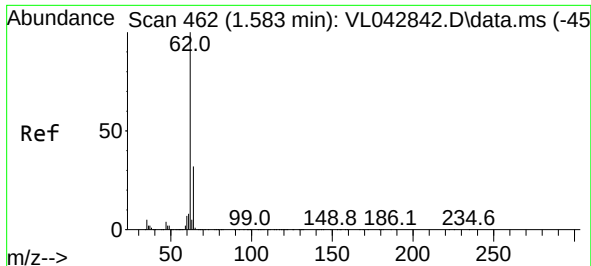
Tgt Ion: 51 Resp: 263595
Ion Ratio Lower Upper
51 100
67 17.8 14.9 22.3



#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

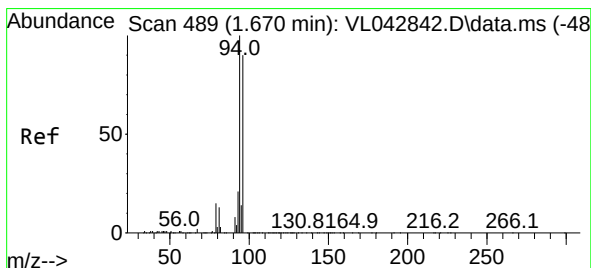
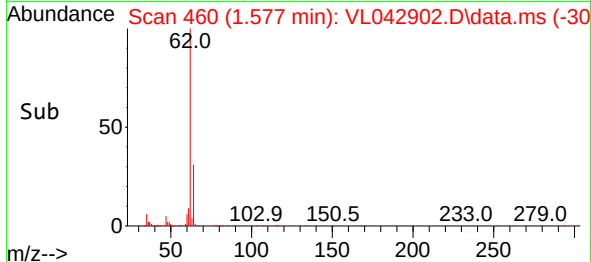
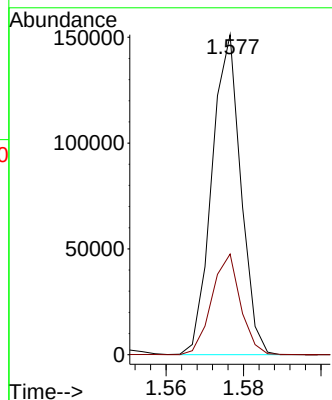
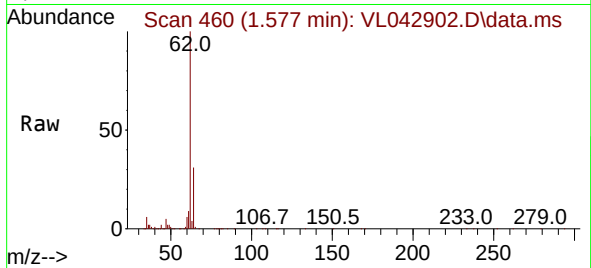




#5
 Vinyl Chloride
 Concen: 9.636 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

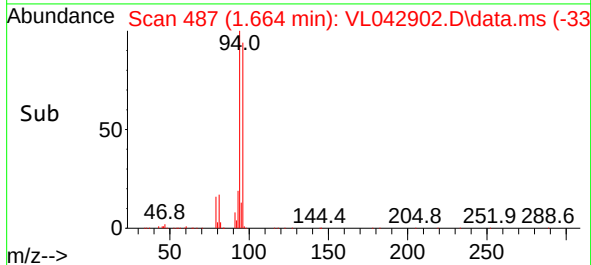
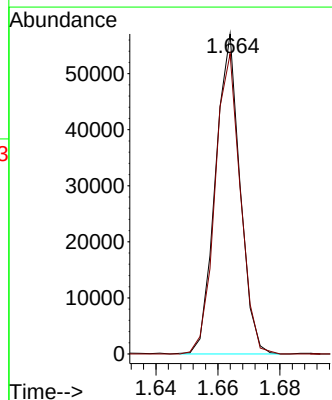
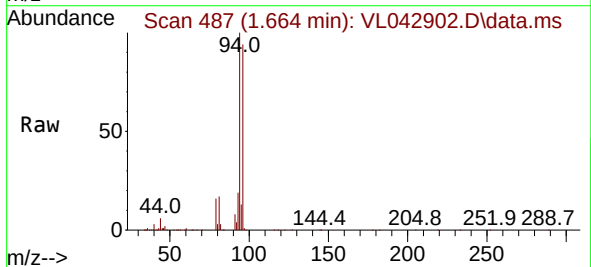
Instrument :
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 ClientSampleId :
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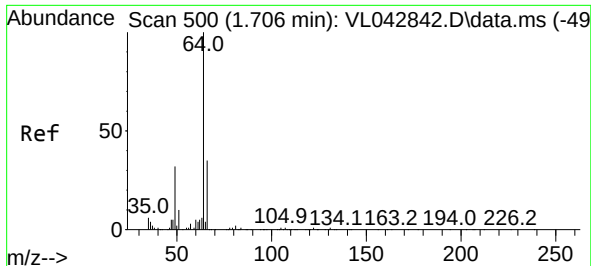
Tgt Ion: 62 Resp: 78545
 Ion Ratio Lower Upper
 62 100
 64 31.5 25.4 38.2



#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

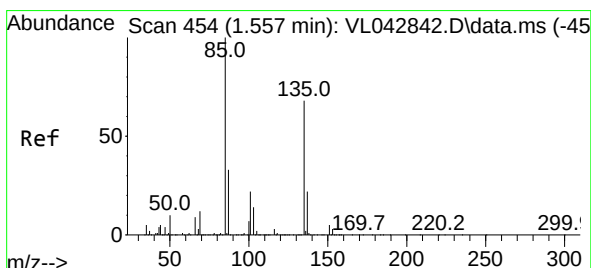
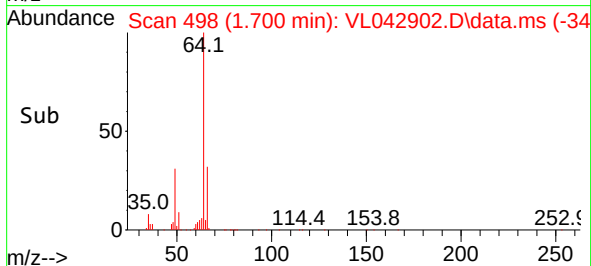
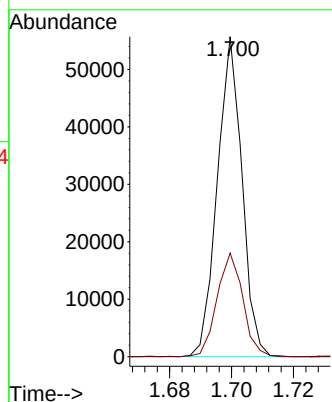
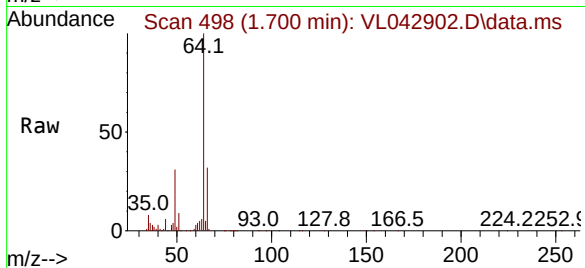




#7
Chloroethane
Concen: 9.679 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

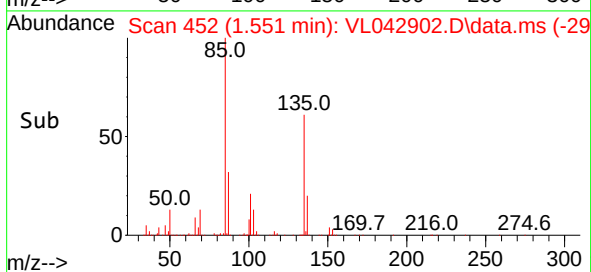
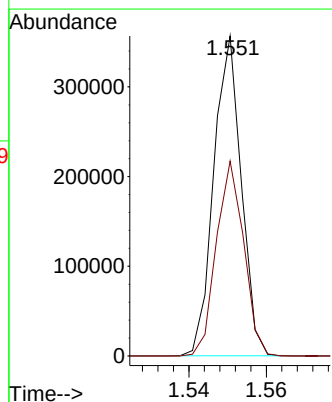
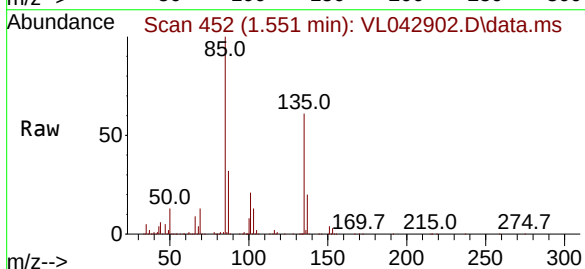
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

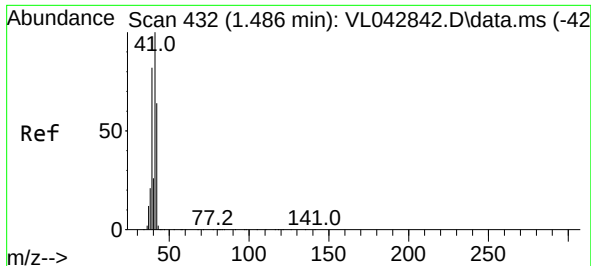
Tgt Ion: 64 Resp: 30810
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8



#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 :

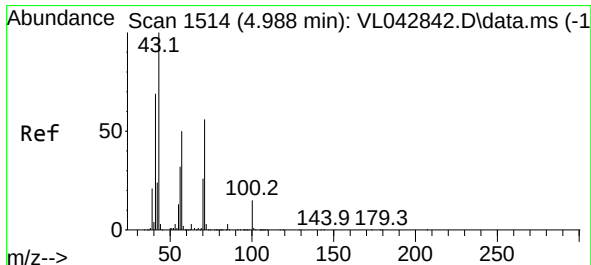
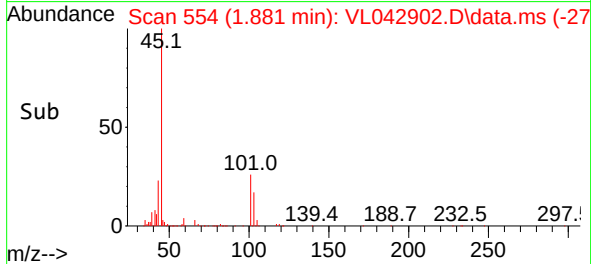
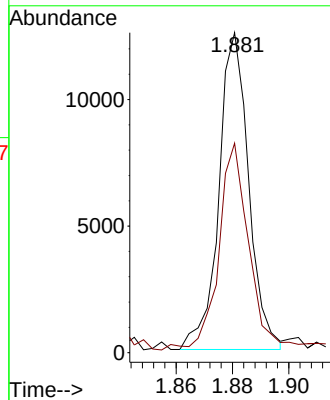
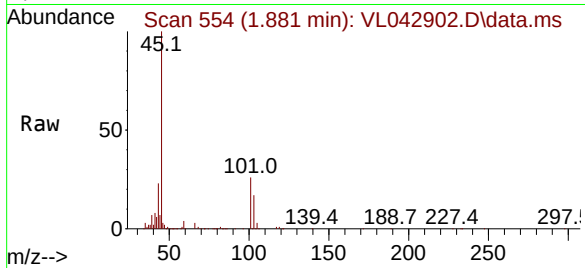
VL0908ABS01

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

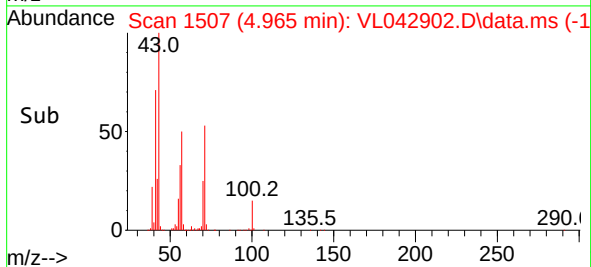
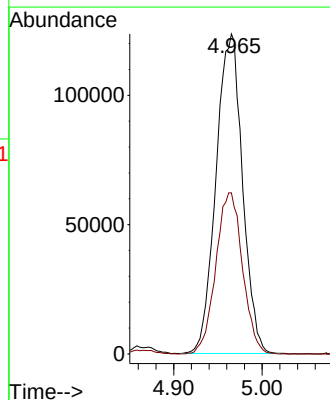
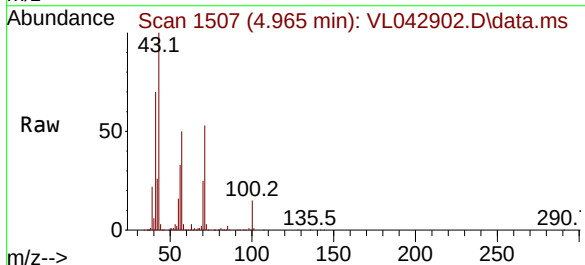
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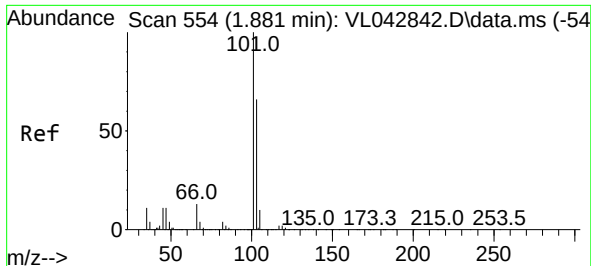
Tgt Ion: 43 Resp: 256593

Ion Ratio Lower Upper

43 100

57 50.9 41.4 62.0

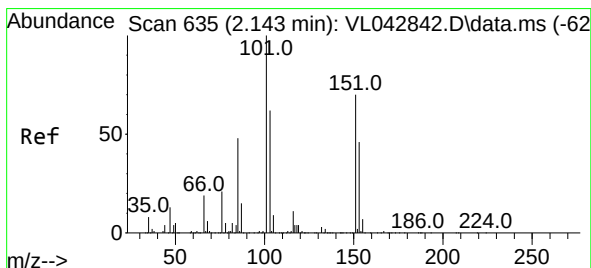
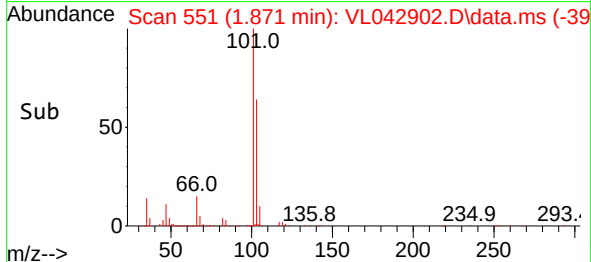
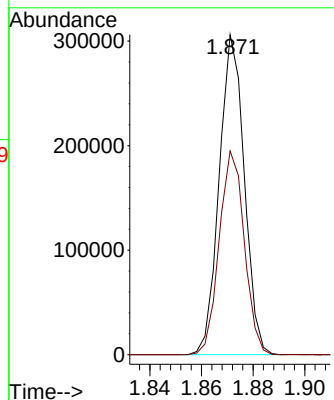
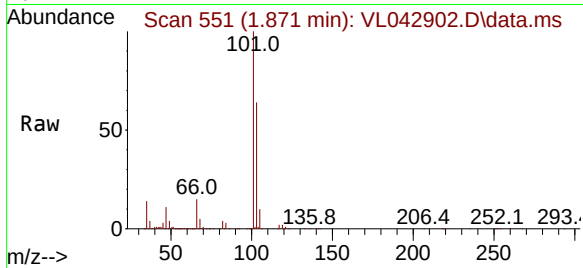




#11
 Trichlorofluoromethane
 Concen: 10.185 ppbv
 RT: 1.871 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

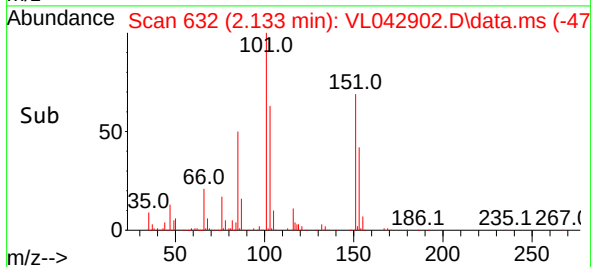
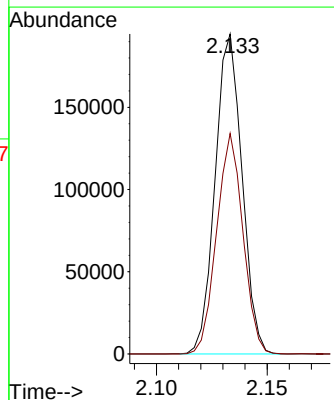
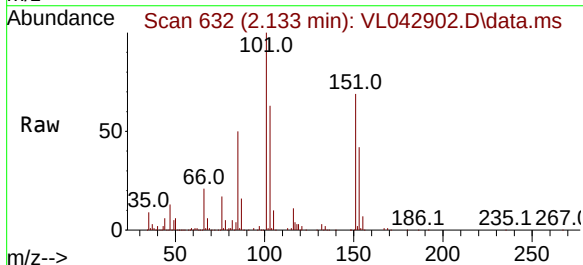
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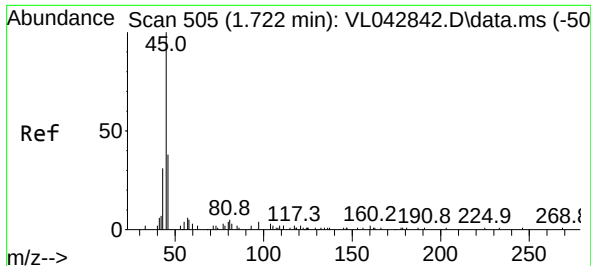
Tgt Ion:101 Resp: 206104
 Ion Ratio Lower Upper
 101 100
 103 63.6 52.5 78.7



#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

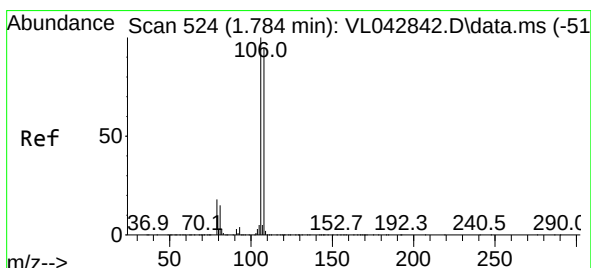
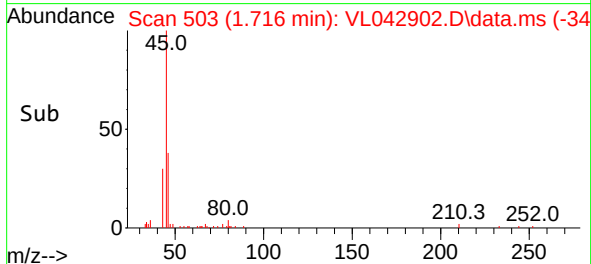
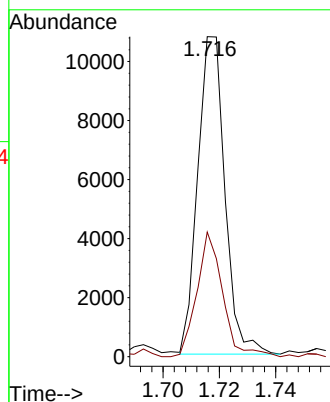
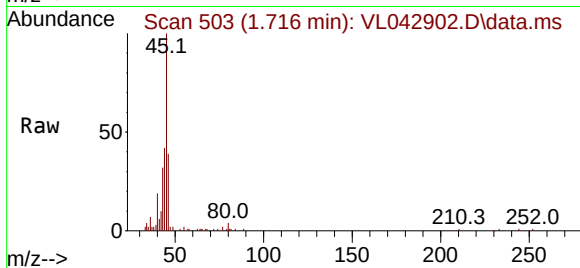




#13
 Ethanol
 Concen: 8.071 ppbv
 RT: 1.716 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

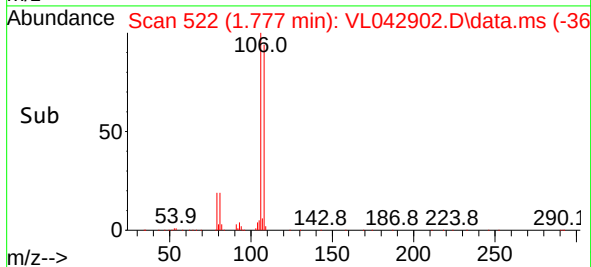
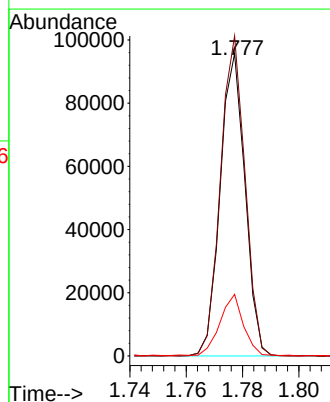
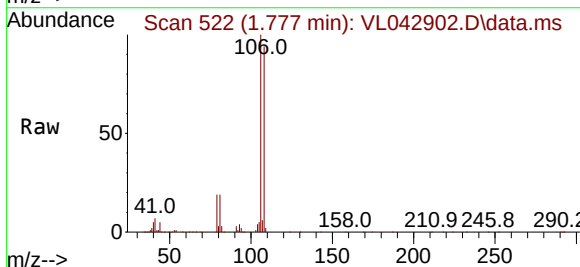
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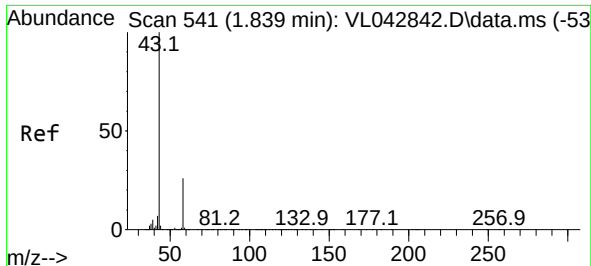
Tgt Ion: 45 Resp: 7225
 Ion Ratio Lower Upper
 45 100
 46 38.4 17.5 69.9



#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

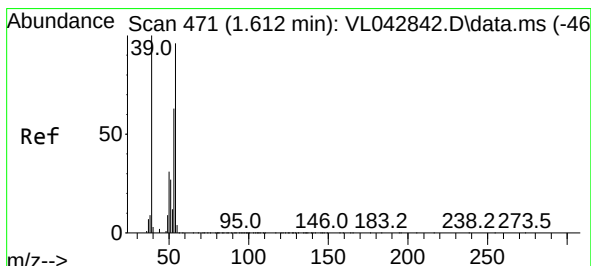
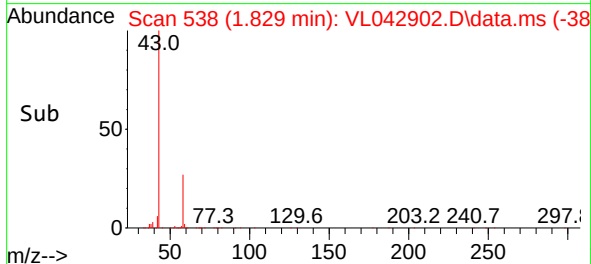
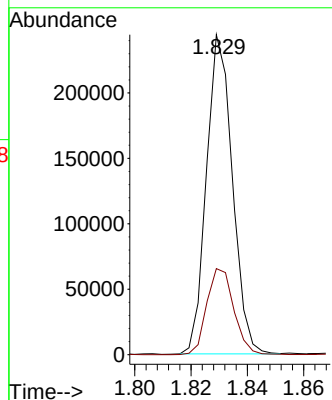
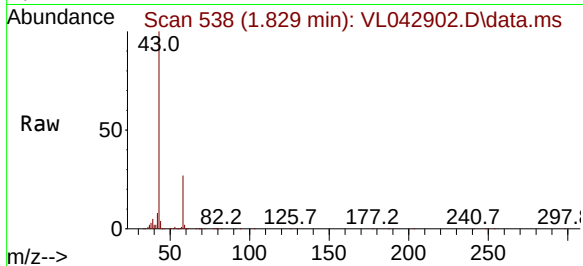




#15
Acetone
Concen: 8.435 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

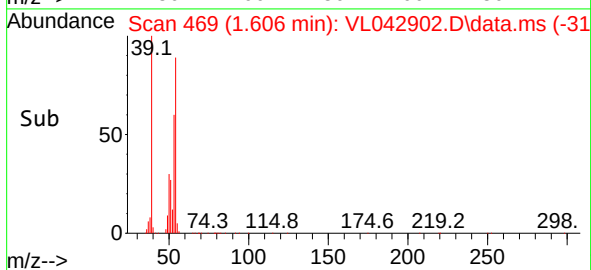
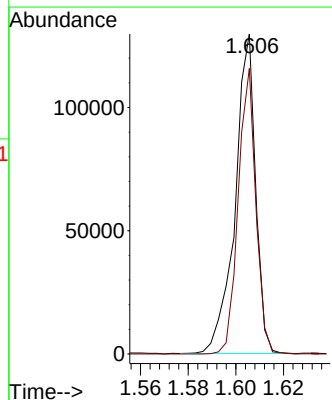
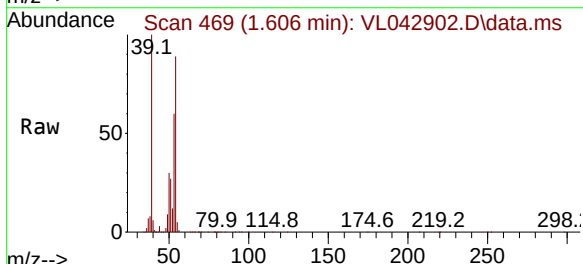
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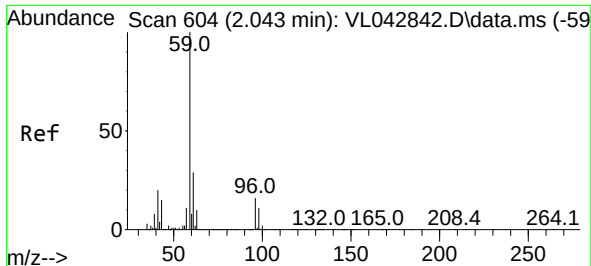
Tgt Ion: 43 Resp: 156147
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6



#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

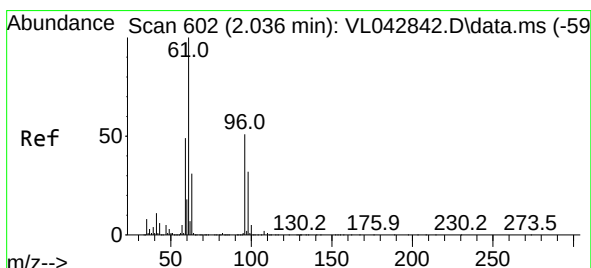
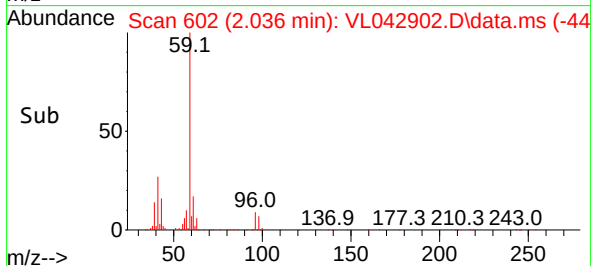
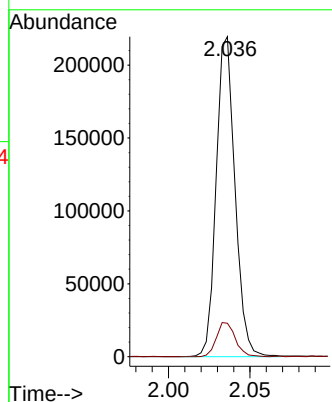
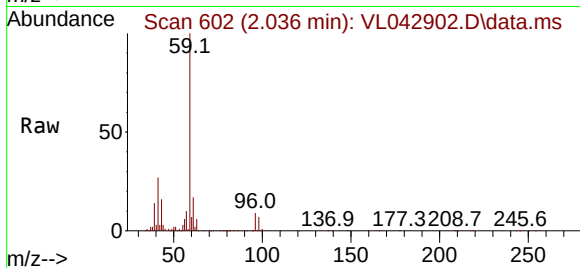




#17
tert-Butyl alcohol
Concen: 8.020 ppbv
RT: 2.036 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

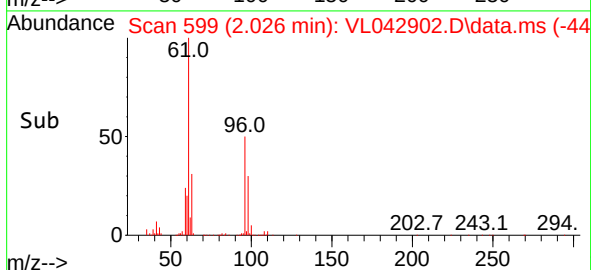
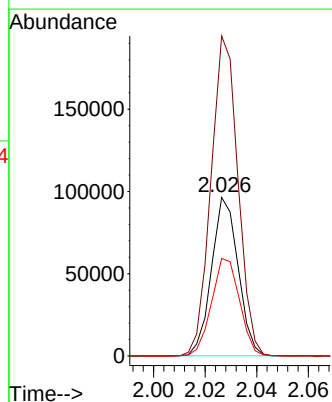
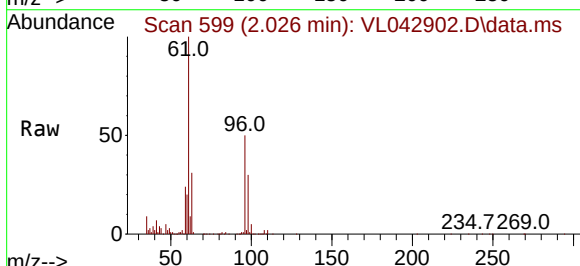
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

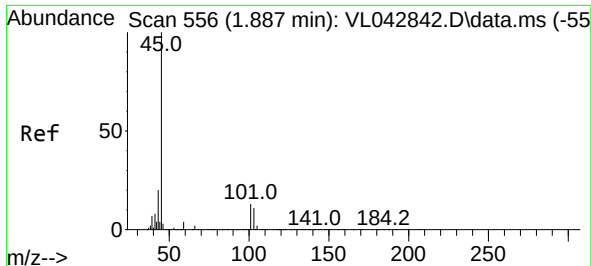
Tgt Ion: 59 Resp: 176056
Ion Ratio Lower Upper
59 100
57 10.9 9.0 13.4



#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

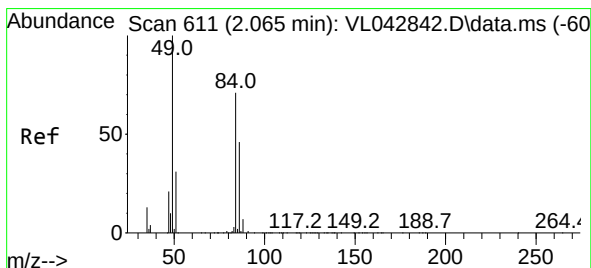
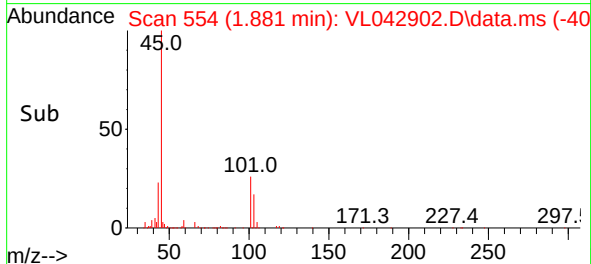
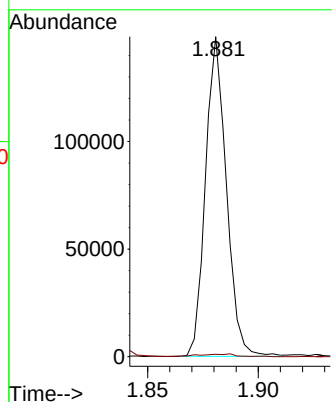
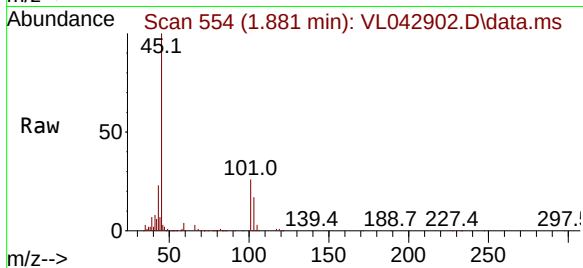




#19
Isopropyl Alcohol
Concen: 8.791 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

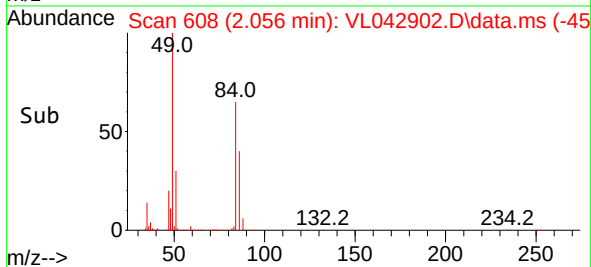
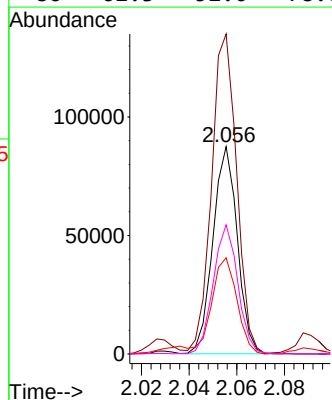
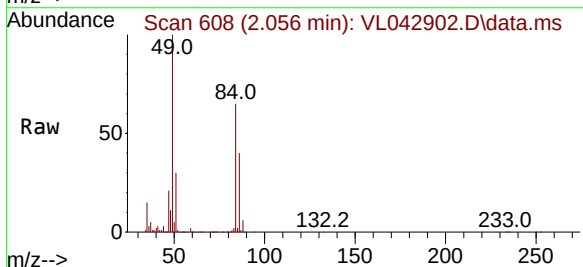
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

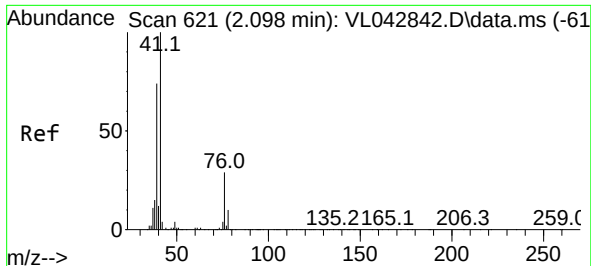
Tgt Ion: 45 Resp: 97198
Ion Ratio Lower Upper
45 100
58 45.5 32.7 49.1



#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

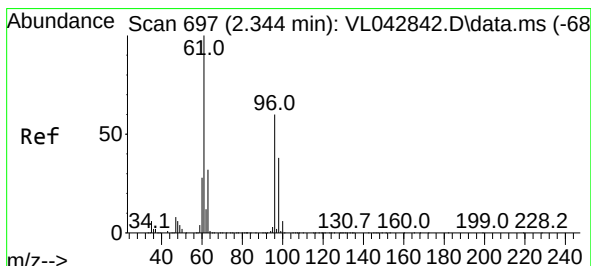
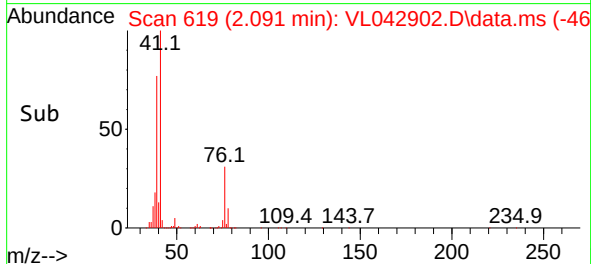
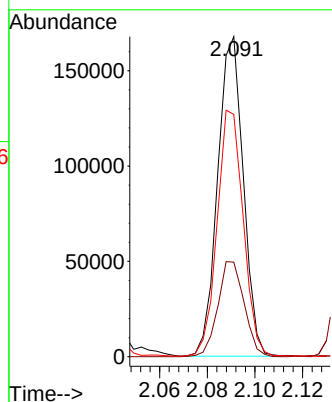
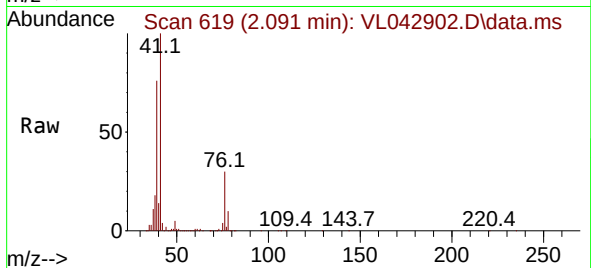




#21
 Allyl Chloride
 Concen: 9.573 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

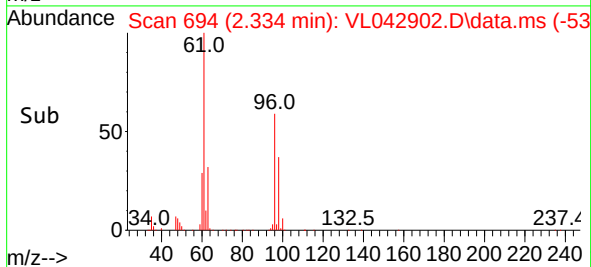
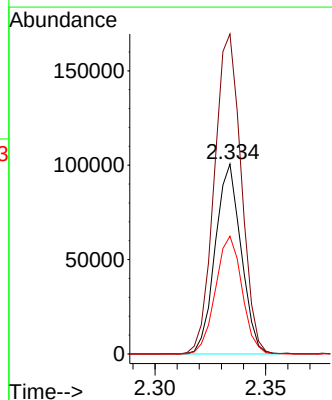
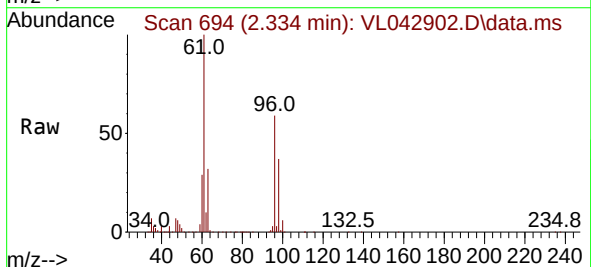
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

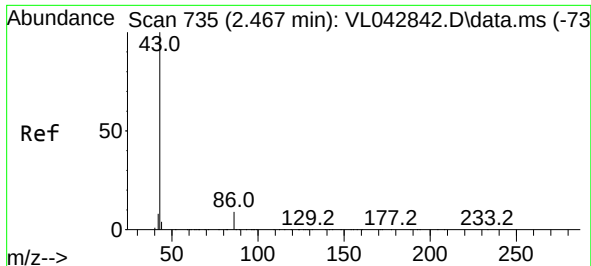
Tgt Ion: 41 Resp: 125191
 Ion Ratio Lower Upper
 41 100
 76 30.6 23.9 35.9
 39 78.4 57.8 86.6



#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



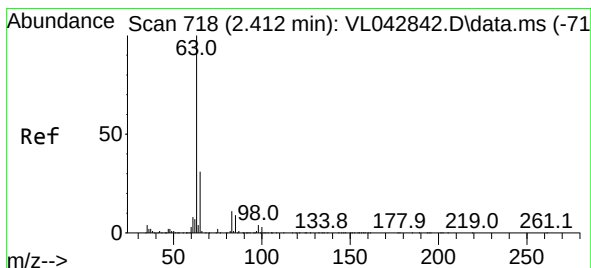
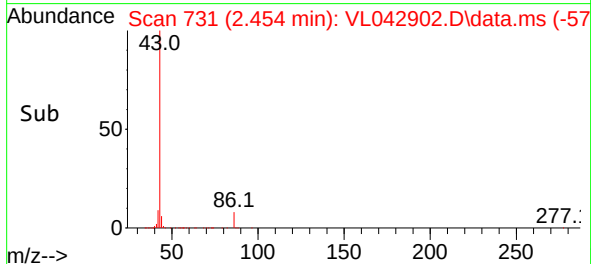
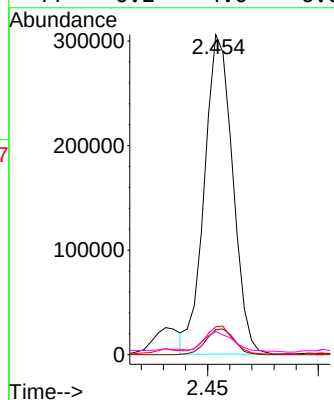
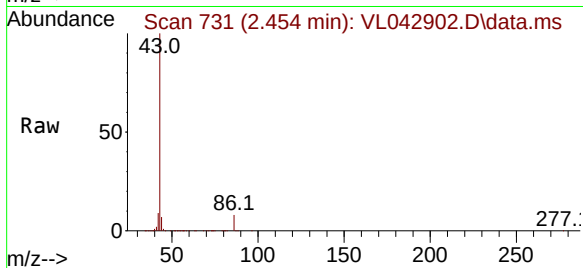


#23
 Vinyl Acetate
 Concen: 10.634 ppbv
 RT: 2.454 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0908ABS01

Tgt Ion: 43 Resp: 270676

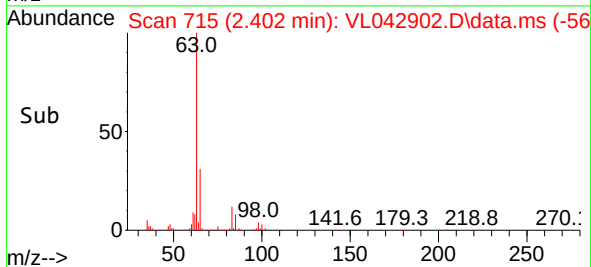
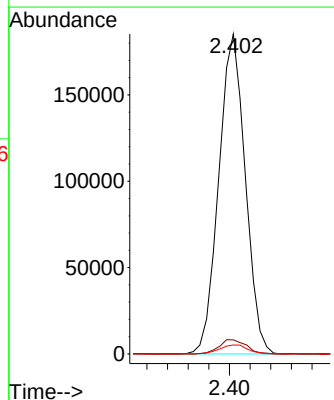
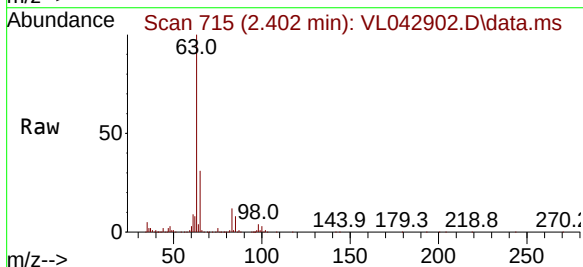
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.6	9.8
42	8.6	7.0	10.6
44	6.2	4.0	6.0

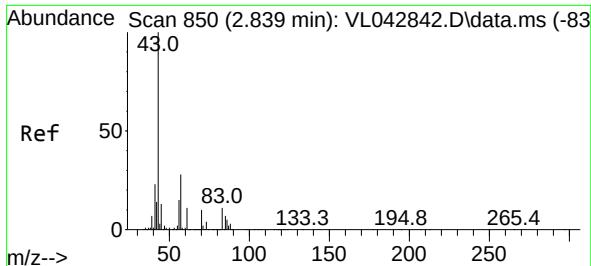


#24
 1,1-Dichloroethane
 Concen: 10.066 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

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



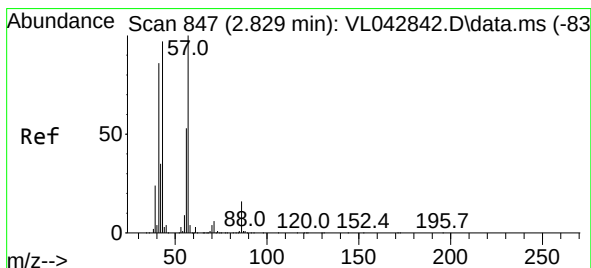
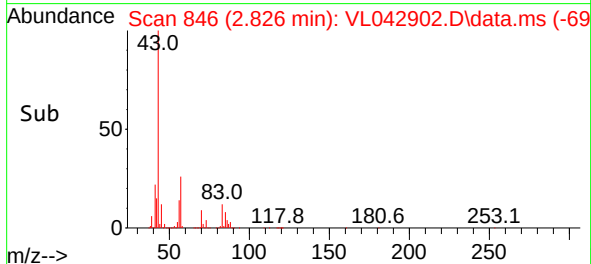
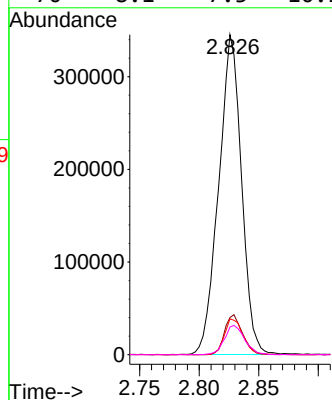
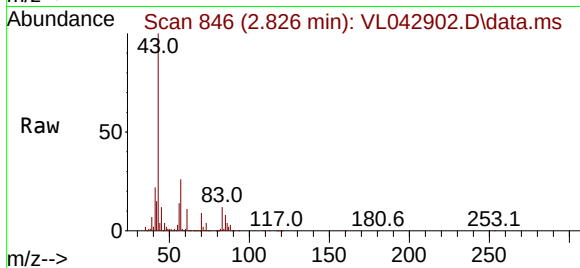


#25
Ethyl Acetate
Concen: 10.237 ppbv
RT: 2.826 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 458640

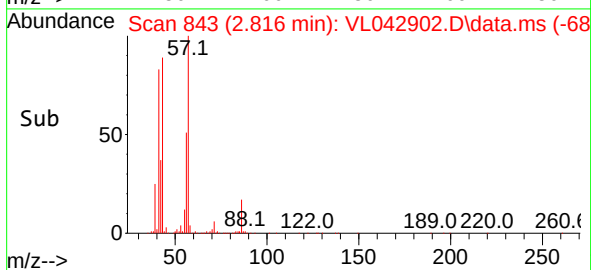
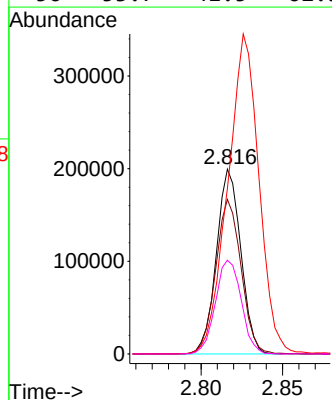
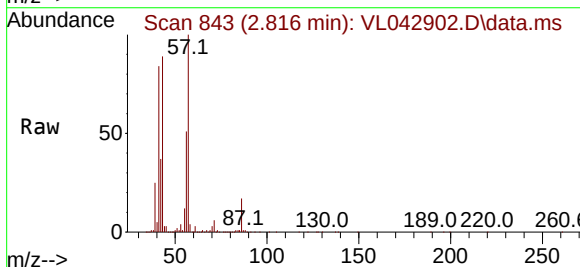
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.2	7.4	11.2
70	8.1	7.3	10.9

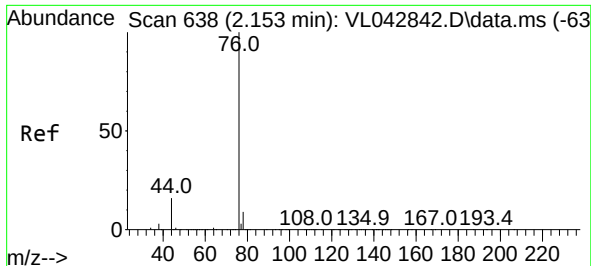


#26
Hexane
Concen: 10.043 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

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

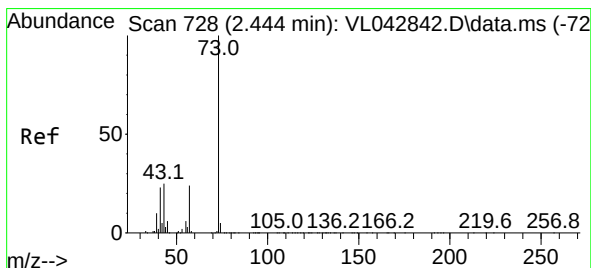
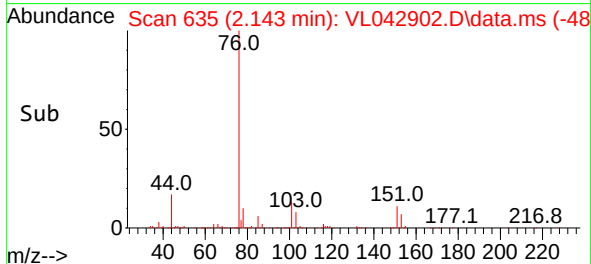
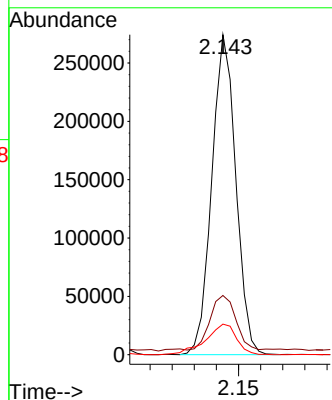
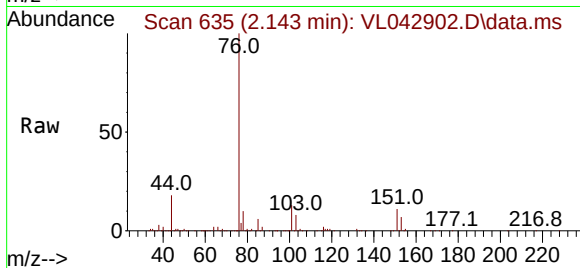




#27
Carbon Disulfide
Concen: 10.273 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

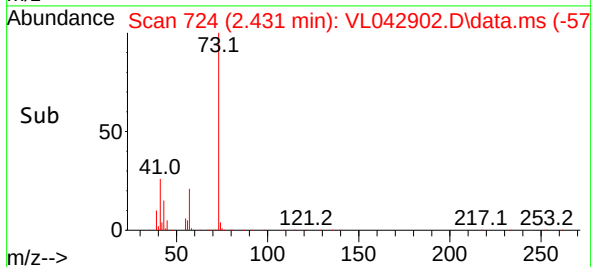
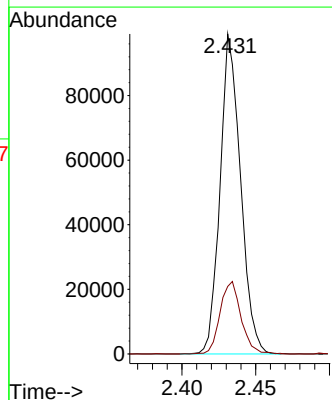
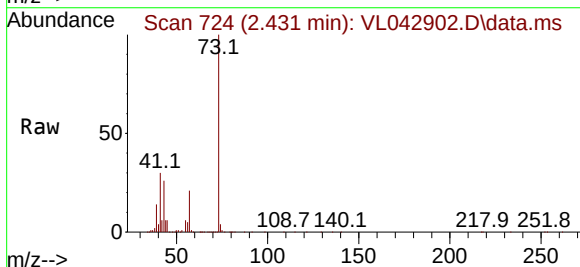
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

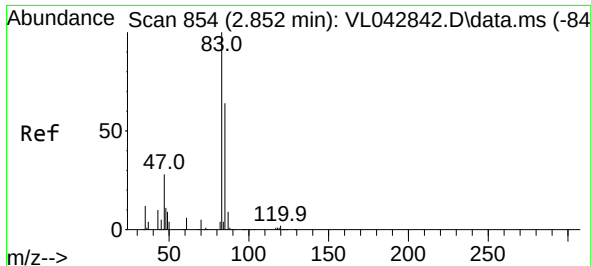
Tgt Ion: 76 Resp: 206751
Ion Ratio Lower Upper
76 100
44 20.9 15.9 23.9
78 12.3 9.5 14.3



#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 :

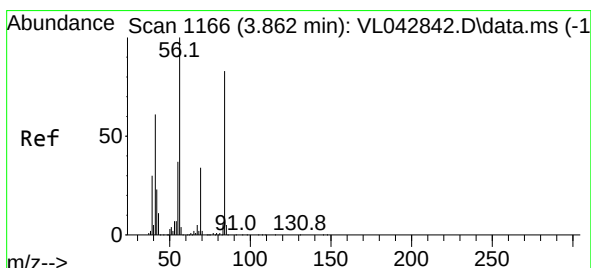
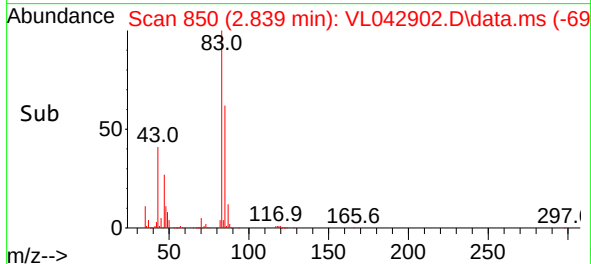
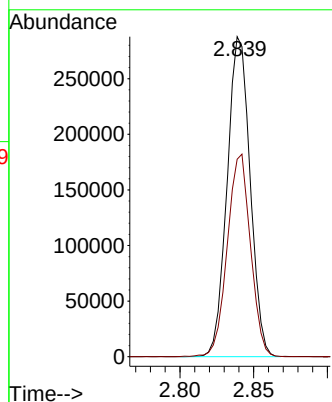
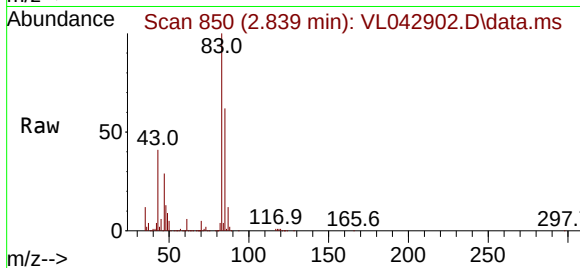
VL0908ABS01

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

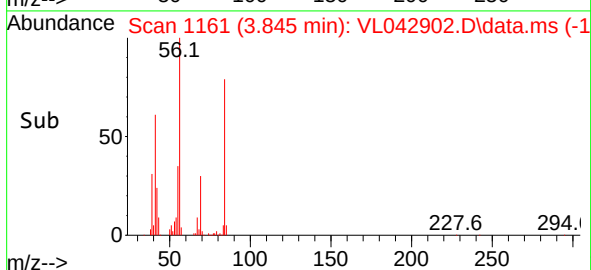
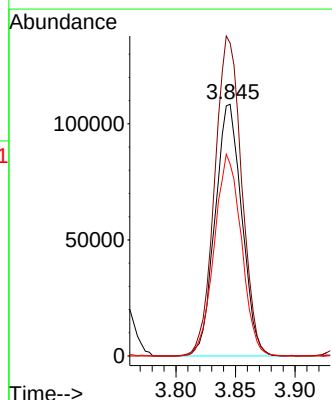
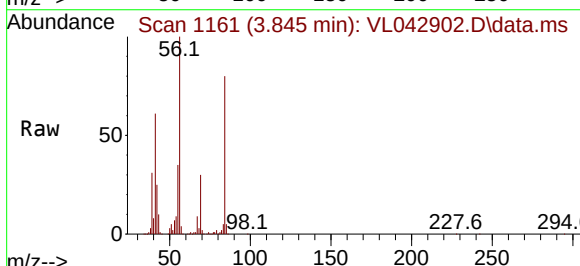
Tgt Ion: 84 Resp: 169353

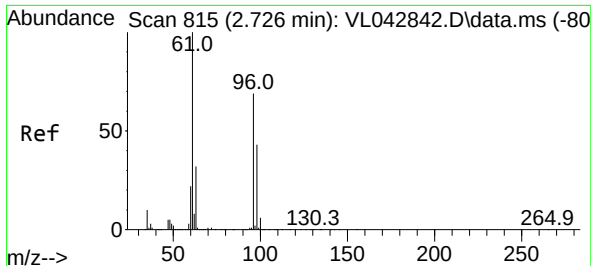
Ion Ratio Lower Upper

84 100

56 127.6 98.8 148.2

41 81.1 61.3 91.9

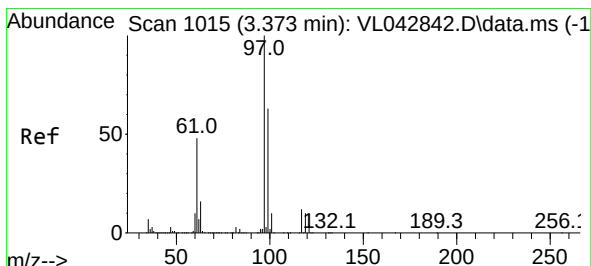
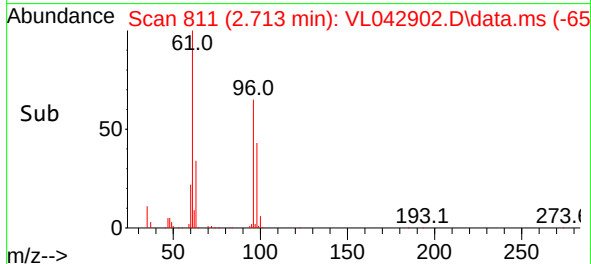
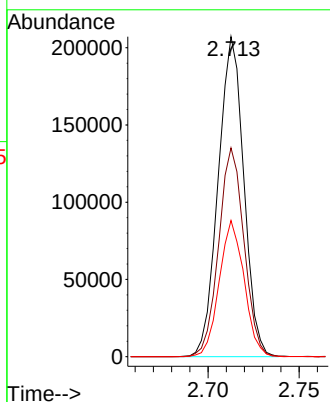
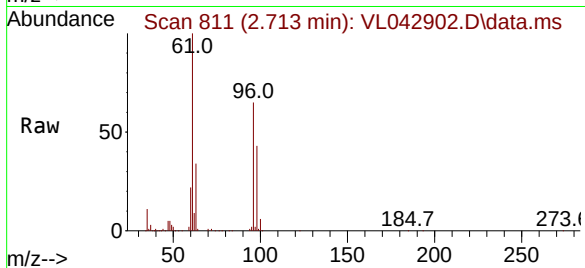




#31
 cis-1,2-Dichloroethene
 Concen: 9.796 ppbv
 RT: 2.713 min Scan# 815
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

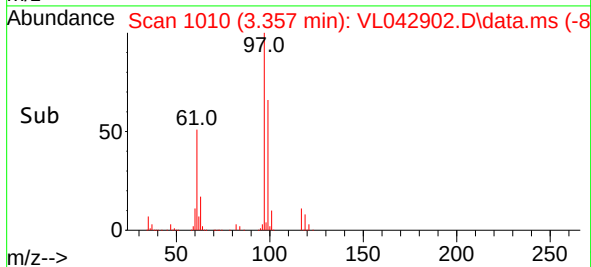
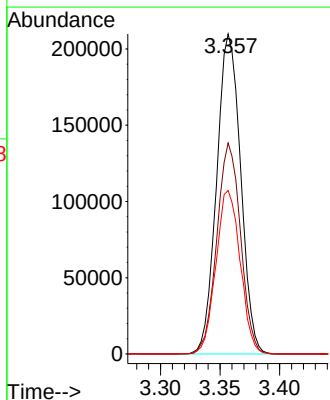
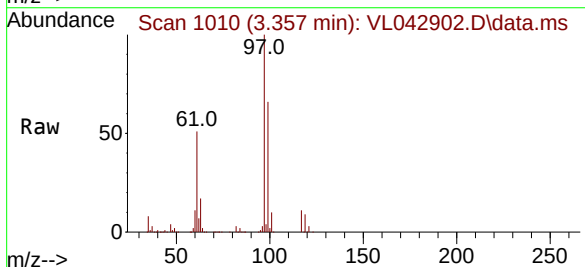
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

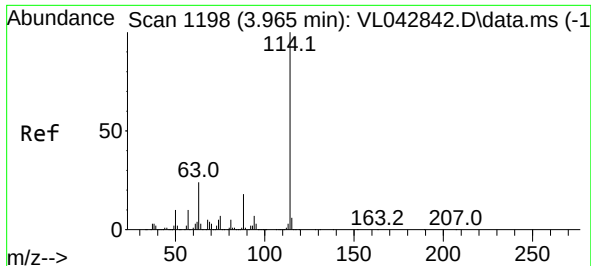
Tgt Ion: 61 Resp: 202349
 Ion Ratio Lower Upper
 61 100
 96 65.2 55.0 82.6
 98 42.5 34.3 51.5



#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

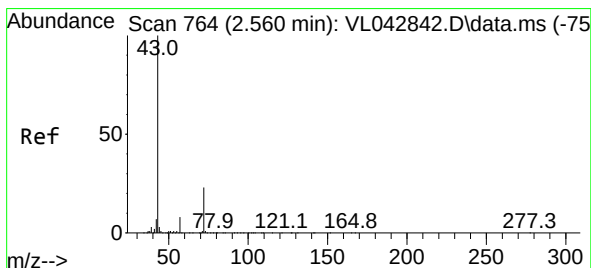
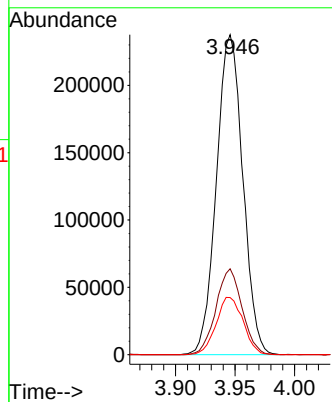
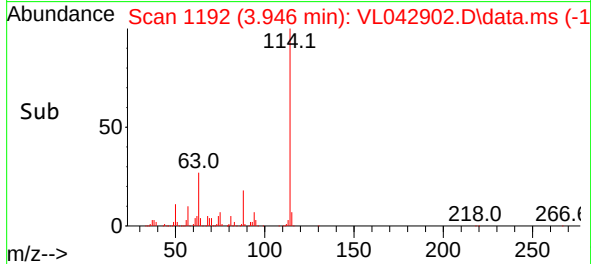
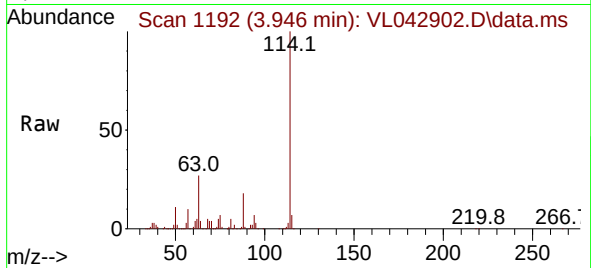




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

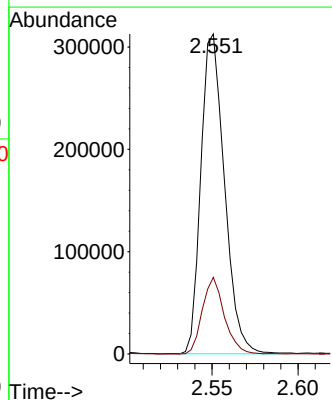
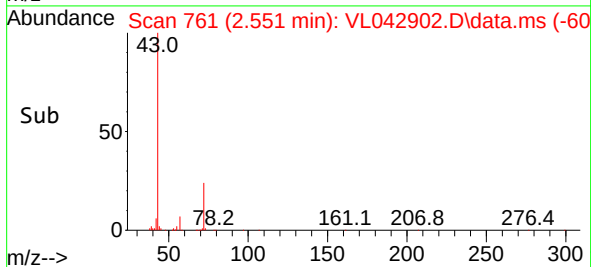
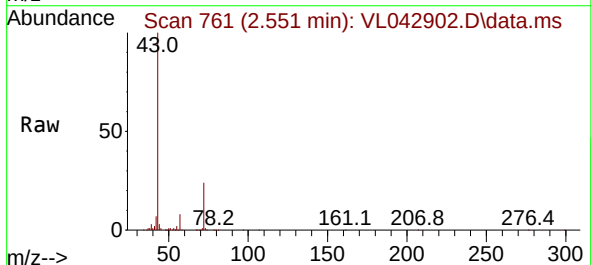
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

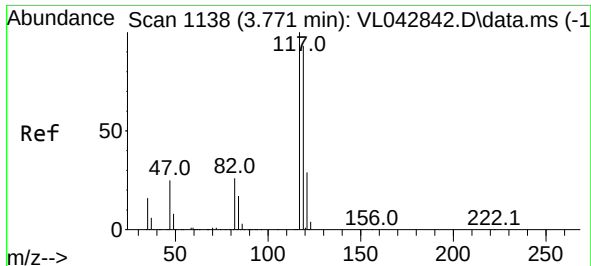
Tgt Ion:114 Resp: 365857
Ion Ratio Lower Upper
114 100
63 26.5 19.7 29.5
88 18.3 14.4 21.6



#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

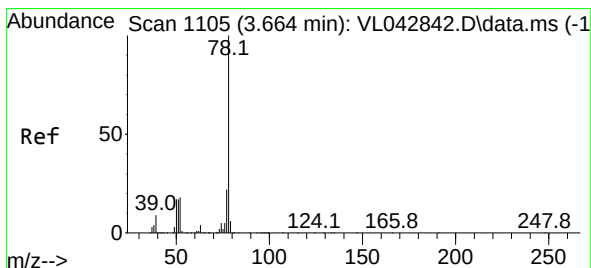
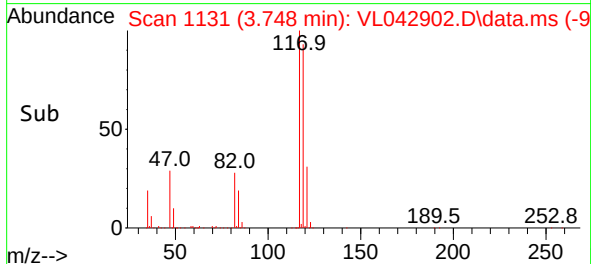
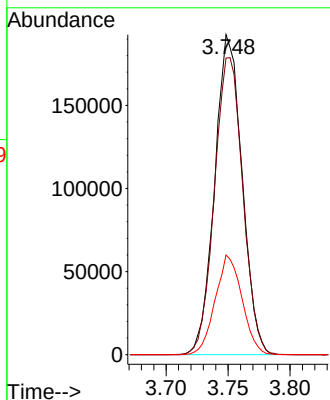
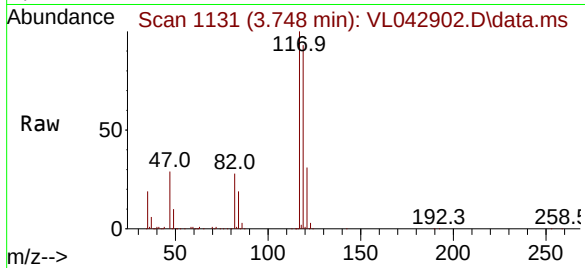




#35
Carbon Tetrachloride
Concen: 11.779 ppbv
RT: 3.748 min Scan# 1138
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

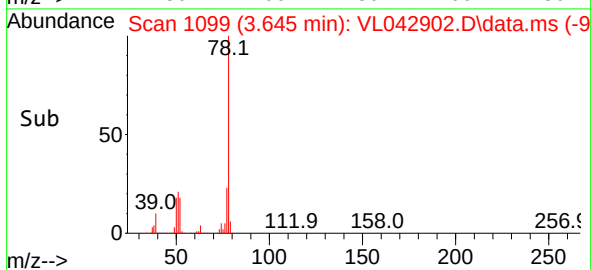
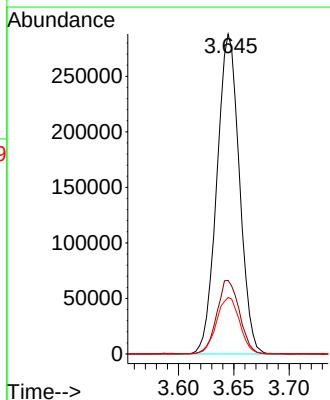
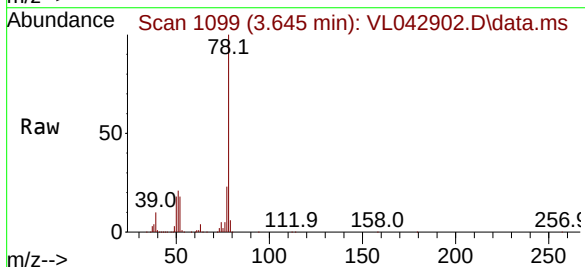
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

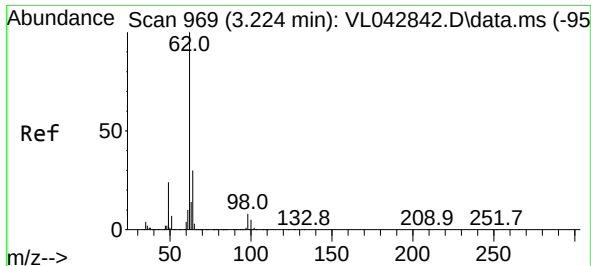
Tgt Ion:117 Resp: 297085
Ion Ratio Lower Upper
117 100
119 92.6 74.7 112.1
121 31.2 23.2 34.8



#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 :

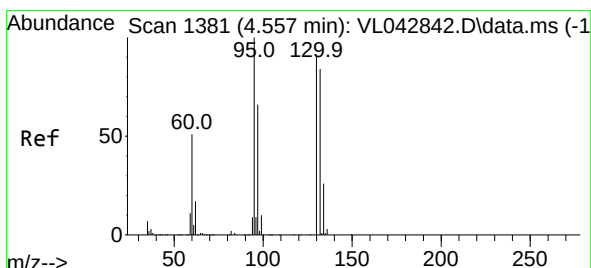
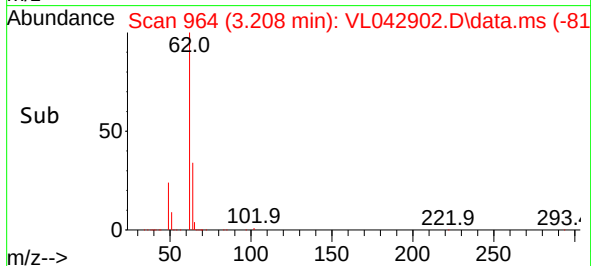
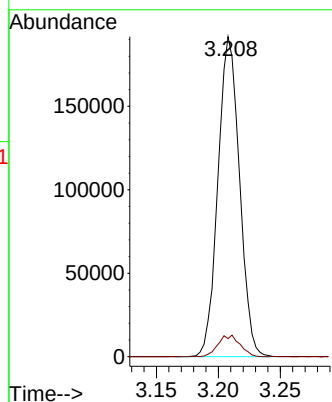
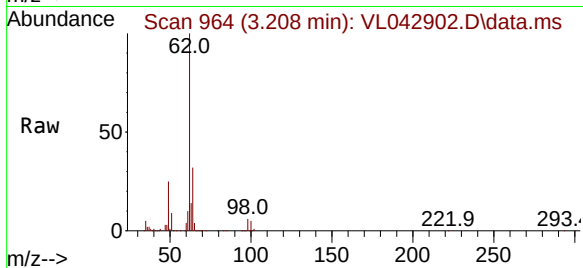
VL0908ABS01

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

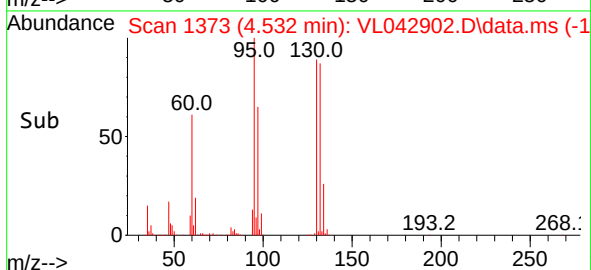
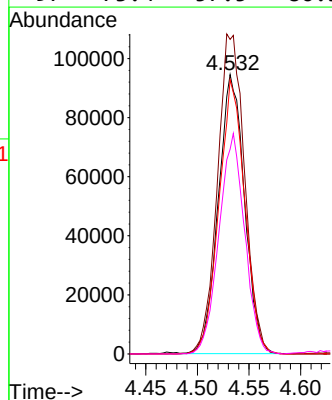
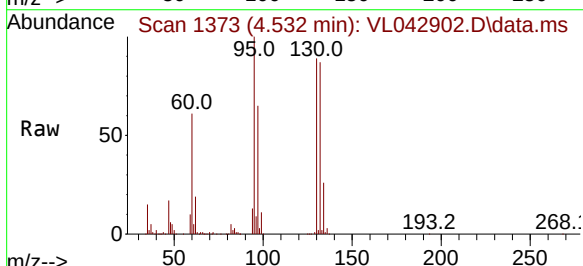
Ion Ratio Lower Upper

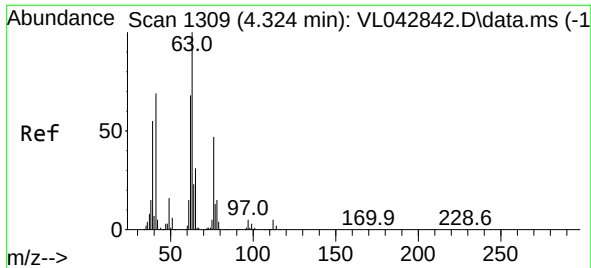
130 100

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

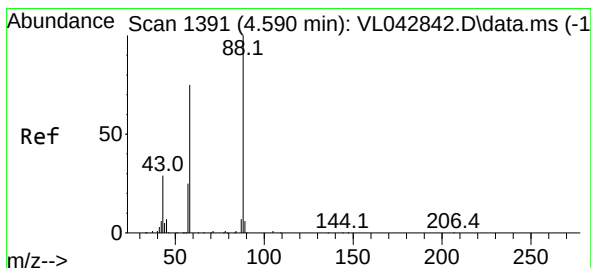
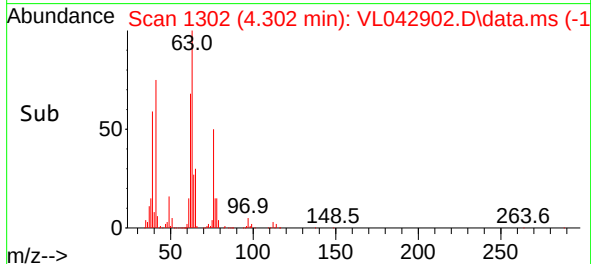
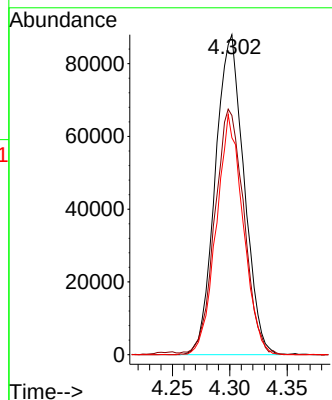
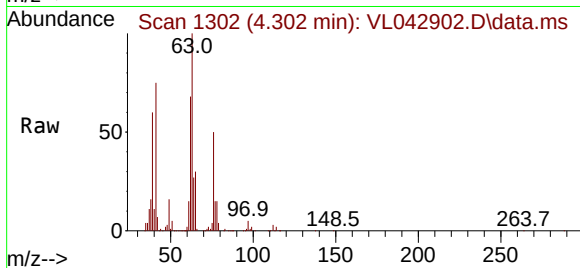
Tgt Ion: 63 Resp: 153042

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

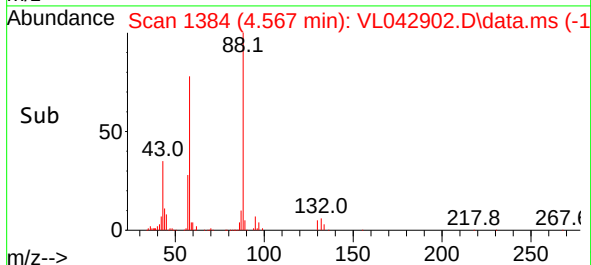
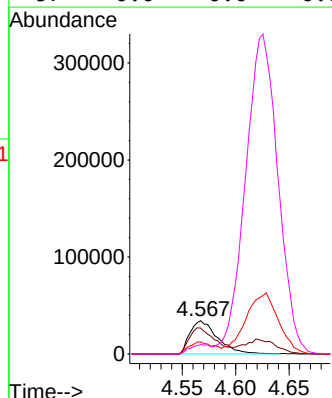
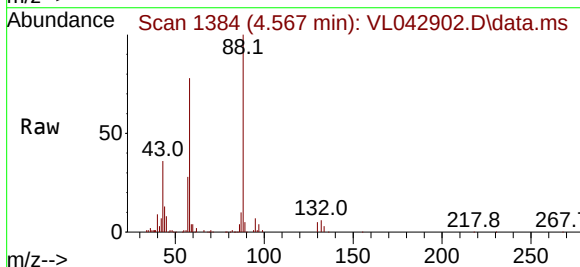
Ion Ratio Lower Upper

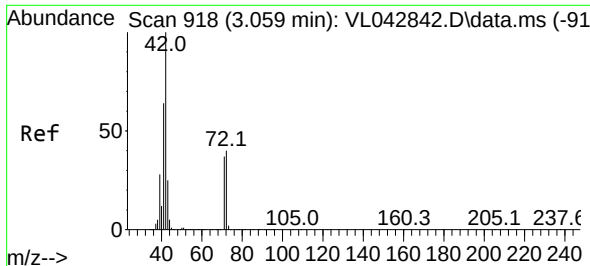
88 100

58 75.9 53.8 80.6

43 36.0 22.8 34.2#

57 0.0 0.0 0.0

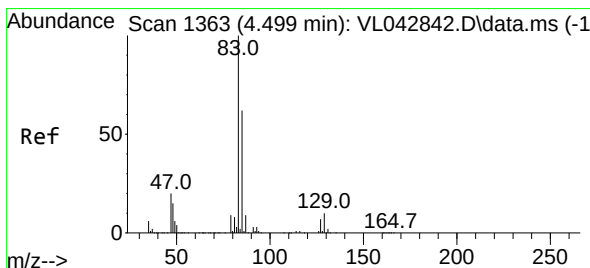
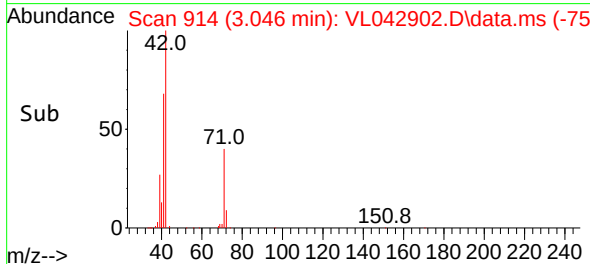
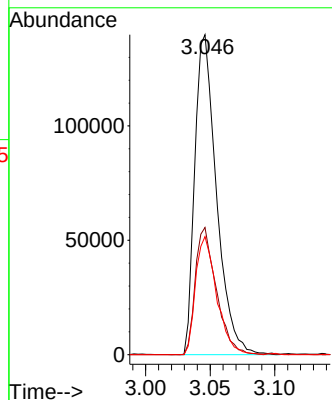
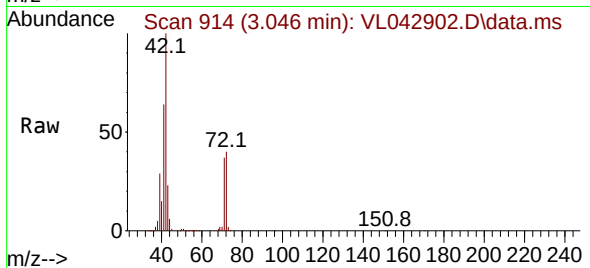




#41
Tetrahydrofuran
Concen: 11.927 ppbv
RT: 3.046 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

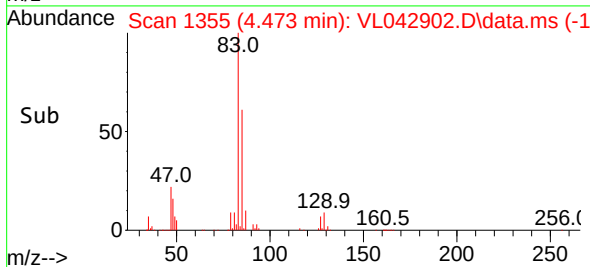
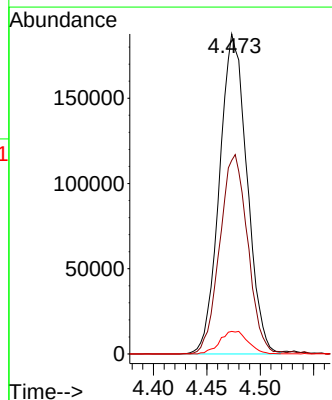
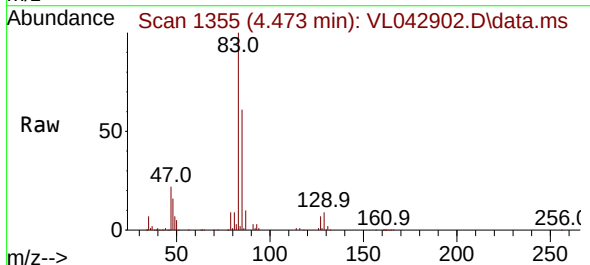
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

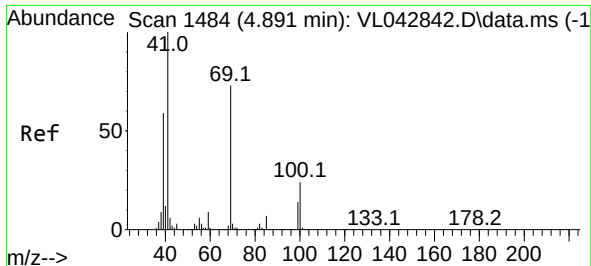
Tgt Ion: 42 Resp: 164268
Ion Ratio Lower Upper
42 100
72 38.6 32.6 48.8
71 36.0 30.0 45.0



#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

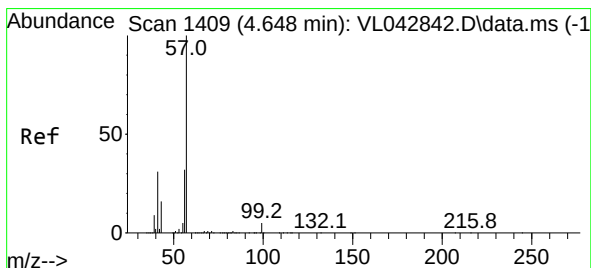
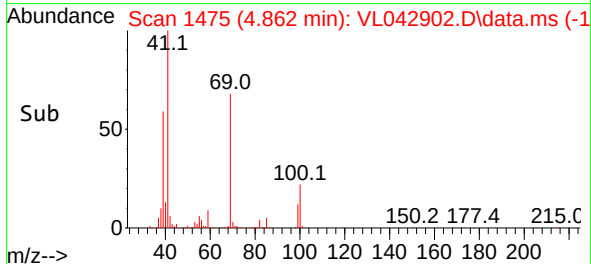
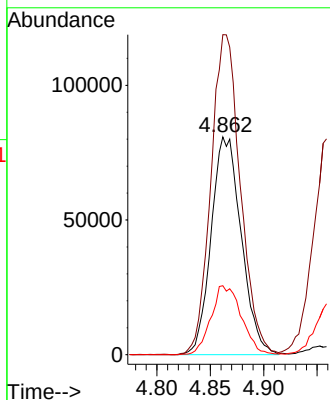
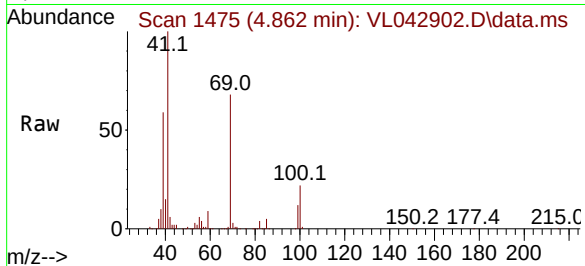




#43
Methyl Methacrylate
Concen: 10.979 ppbv
RT: 4.862 min Scan# 1484
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

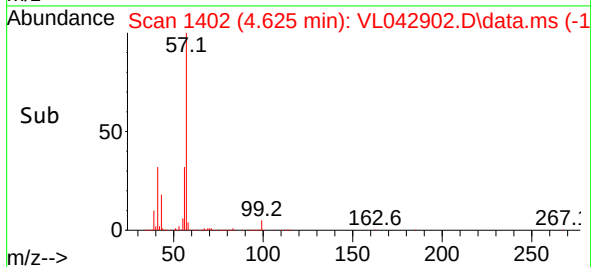
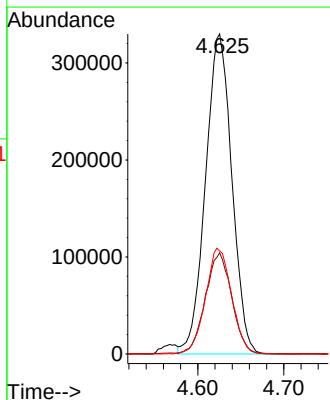
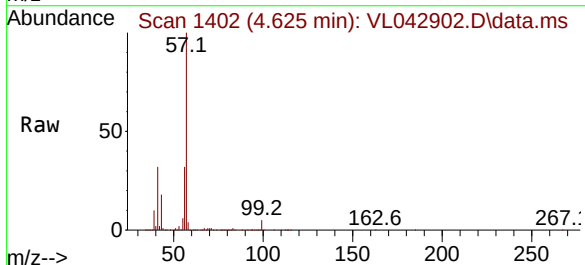
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

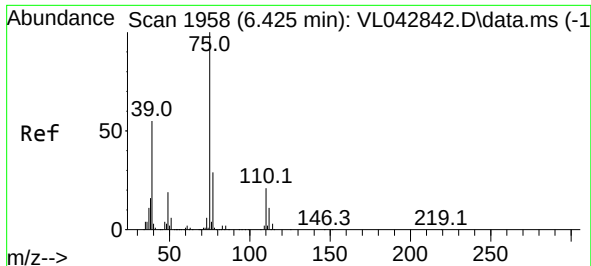
Tgt Ion: 69 Resp: 158457
Ion Ratio Lower Upper
69 100
41 143.9 114.6 172.0
100 32.1 30.2 45.4



#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

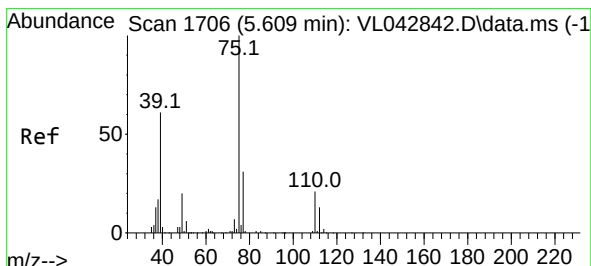
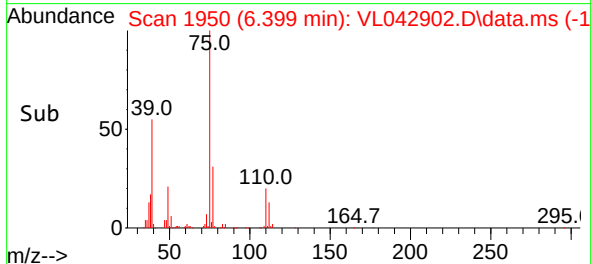
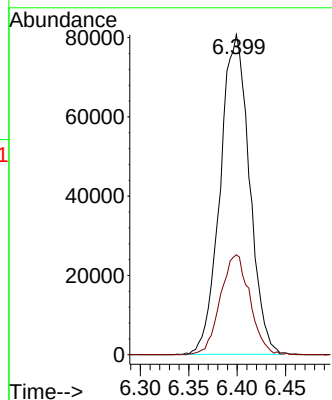
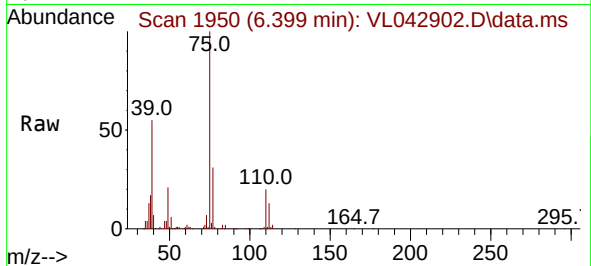




#45
 t-1,3-Dichloropropene
 Concen: 10.403 ppbv
 RT: 6.399 min Scan# 1698
 Delta R.T. 0.006 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

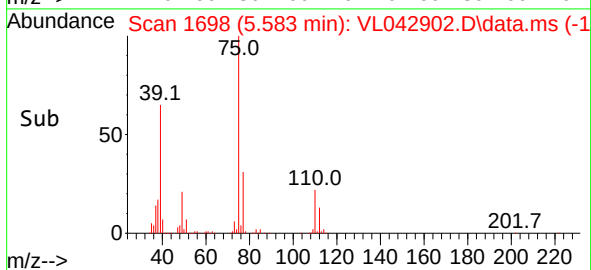
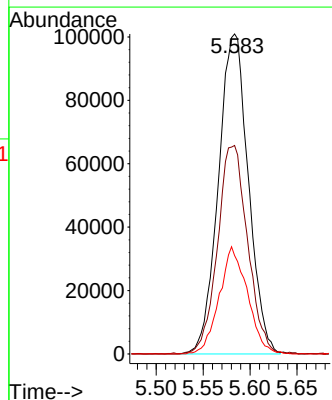
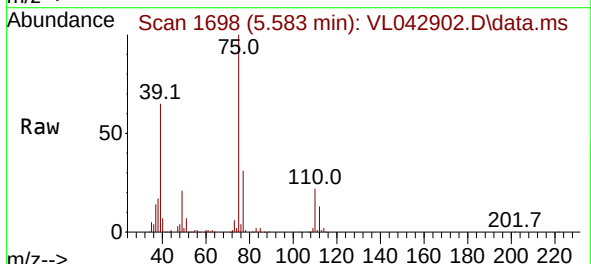
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

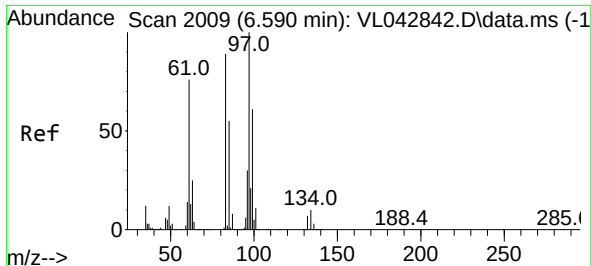
Tgt Ion: 75 Resp: 169435
 Ion Ratio Lower Upper
 75 100
 77 31.2 23.8 35.6



#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

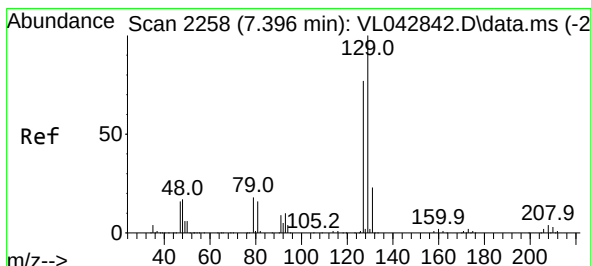
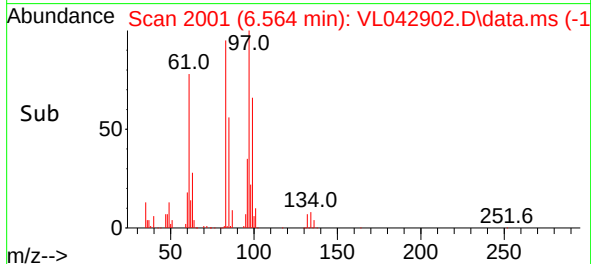
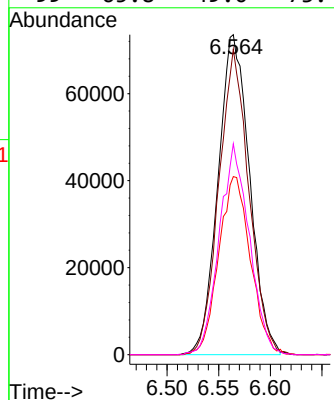
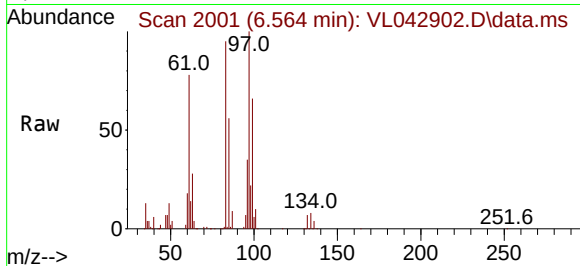




#47
1,1,2-Trichloroethane
Concen: 11.541 ppbv
RT: 6.564 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

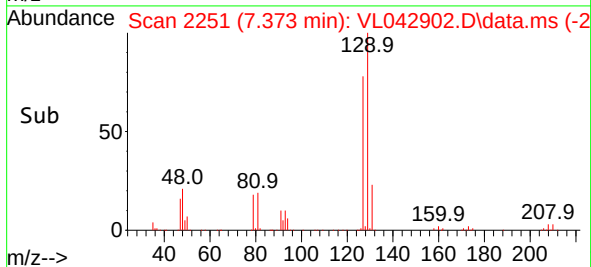
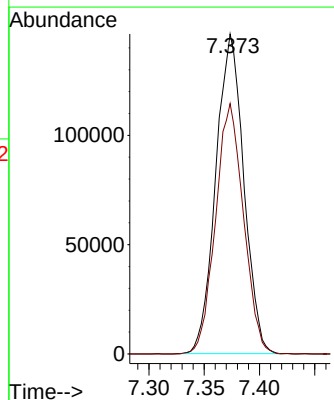
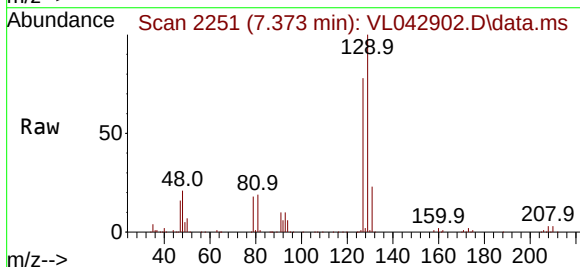
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

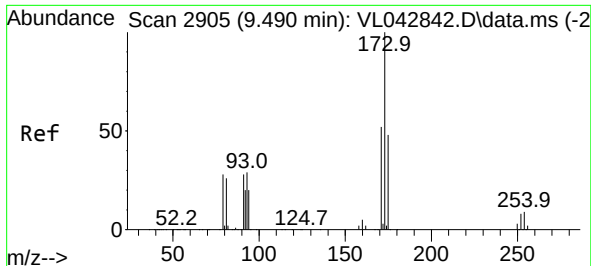
Tgt Ion: 97	Resp: 156460
Ion Ratio	Lower Upper
97 100	
83 95.5	71.0 106.4
85 55.6	43.6 65.4
99 65.8	49.0 73.4



#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

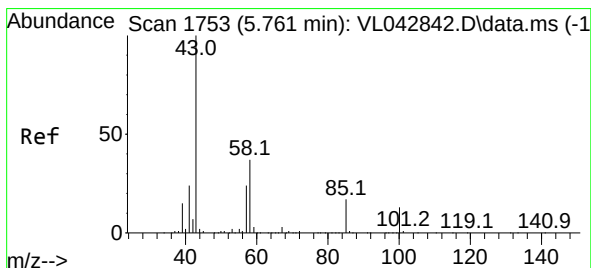
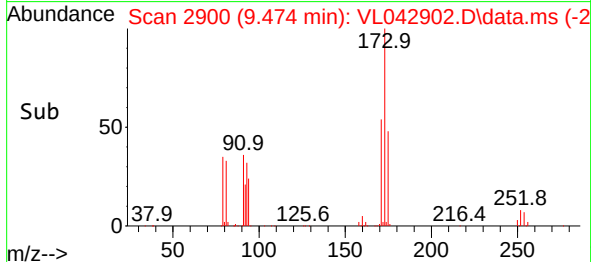
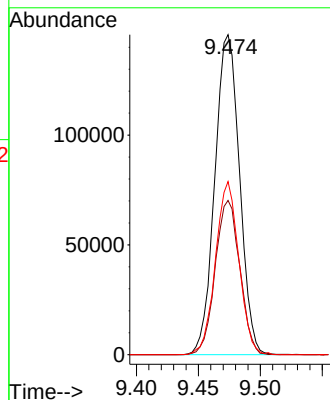
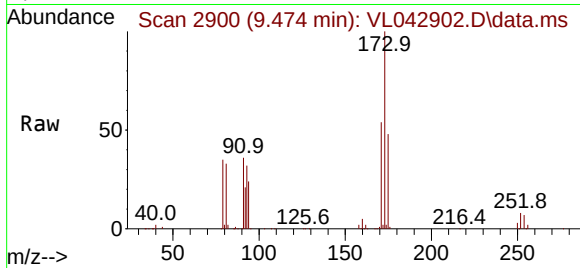
Tgt Ion:173 Resp: 203018

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

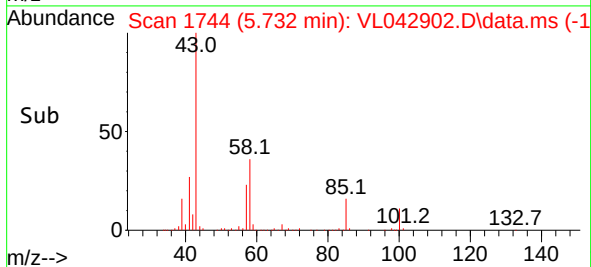
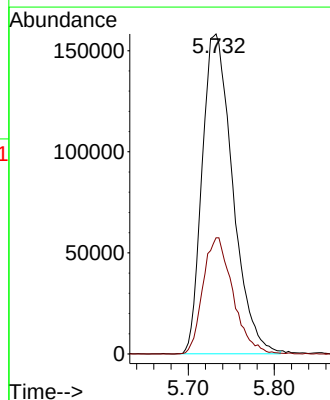
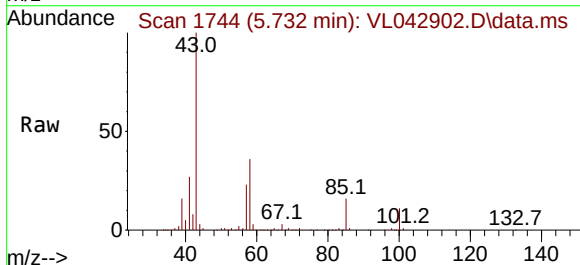
Acq: 08 Sep 2025 13:35

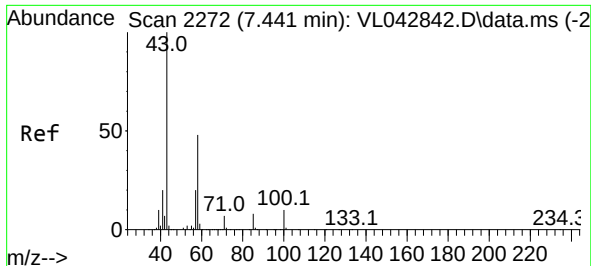
Tgt Ion: 43 Resp: 390291

Ion Ratio Lower Upper

43 100

58 35.7 29.8 44.8

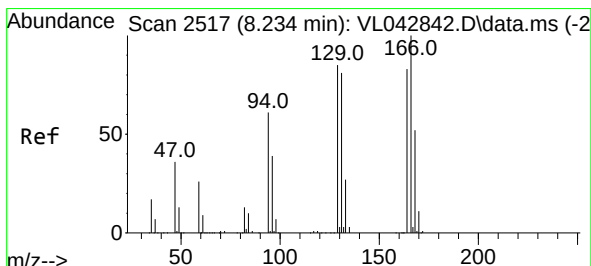
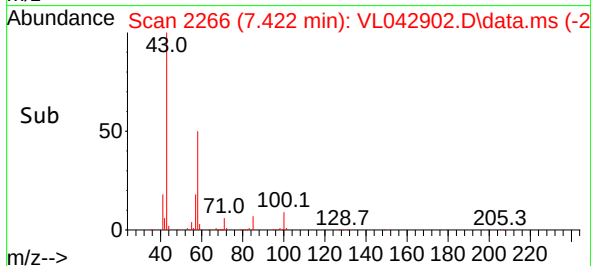
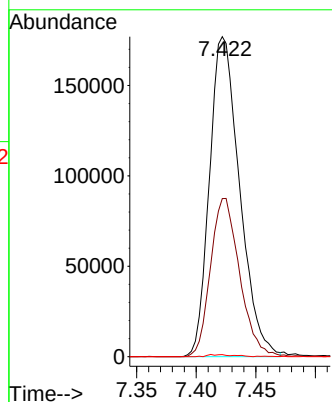
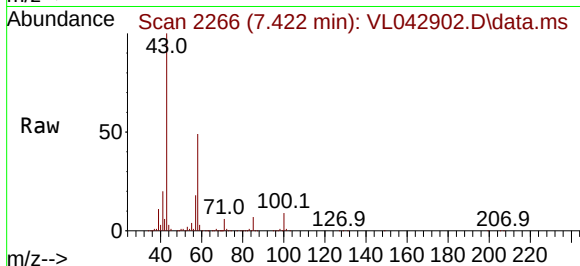




#51
2-Hexanone
Concen: 11.858 ppbv
RT: 7.422 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

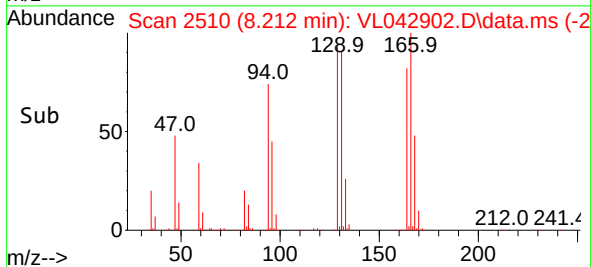
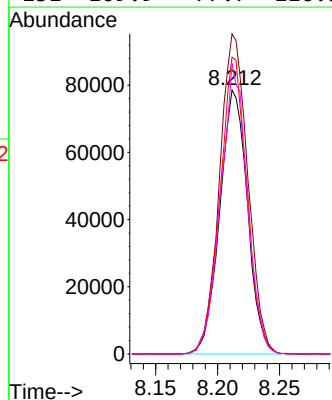
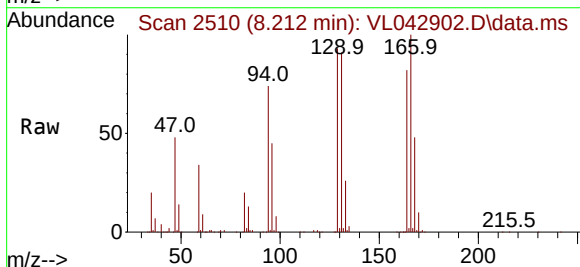
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

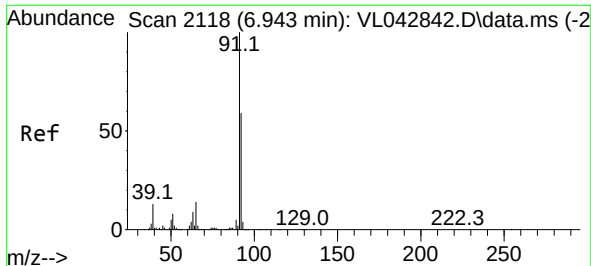
Tgt Ion: 43 Resp: 311589
Ion Ratio Lower Upper
43 100
58 47.8 41.0 61.6
98 0.6 0.1 0.1#



#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

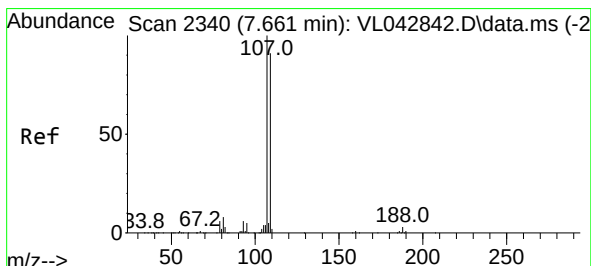
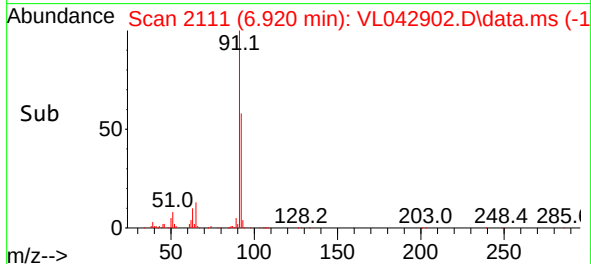
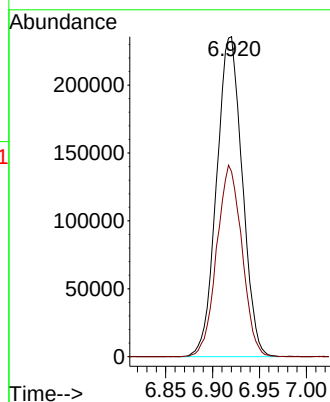
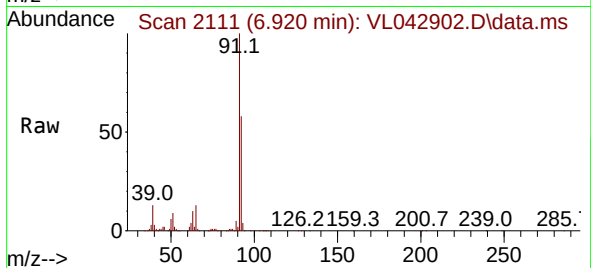




#53
Toluene
Concen: 10.752 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

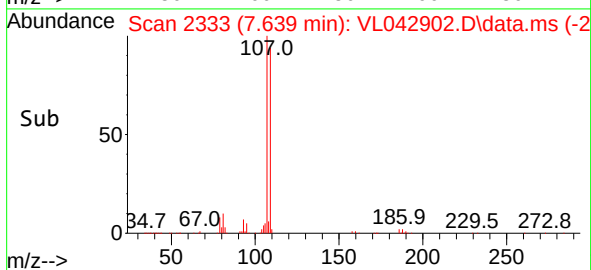
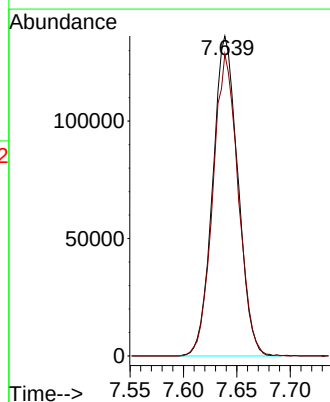
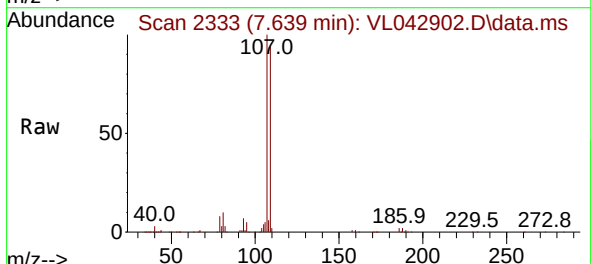
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

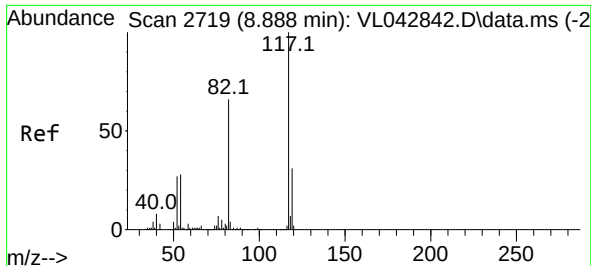
Tgt Ion: 91 Resp: 447844
Ion Ratio Lower Upper
91 100
92 58.9 47.8 71.6



#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

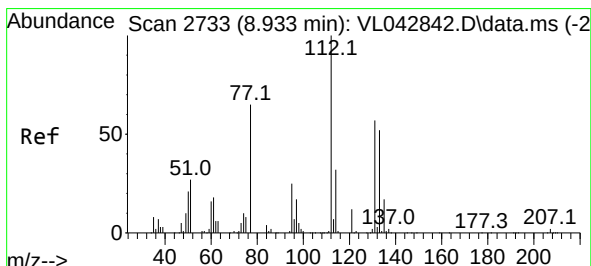
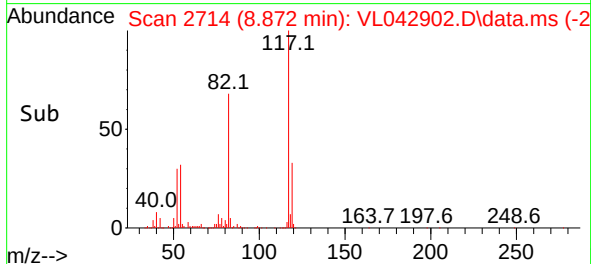
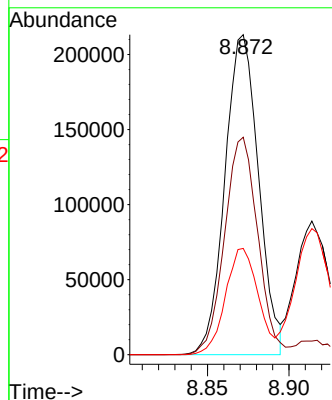
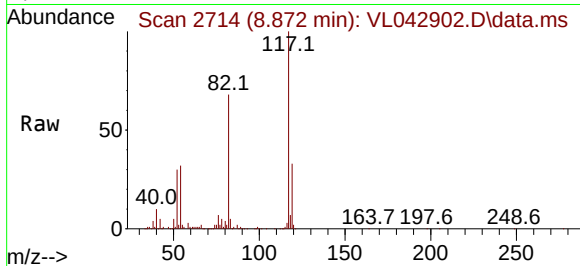




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

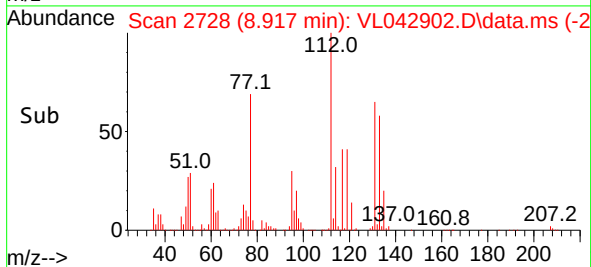
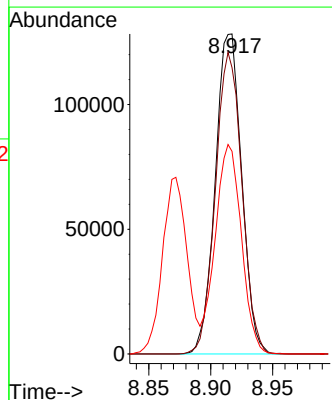
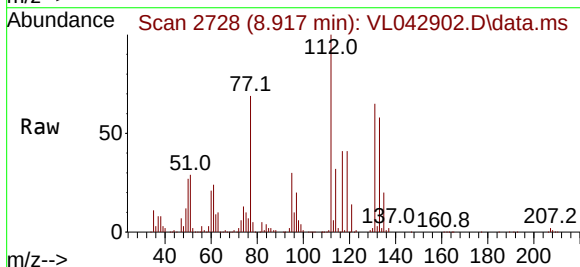
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

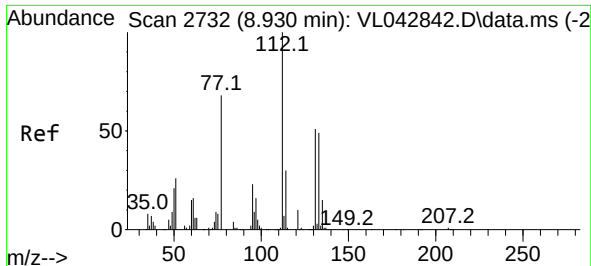
Tgt Ion:117 Resp: 306385
Ion Ratio Lower Upper
117 100
82 71.5 54.6 81.8
119 32.3 25.9 38.9



#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

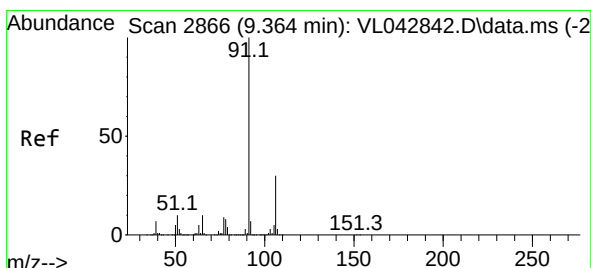
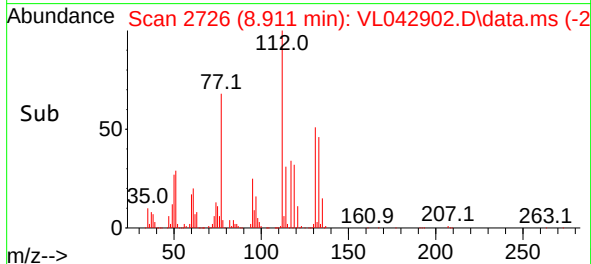
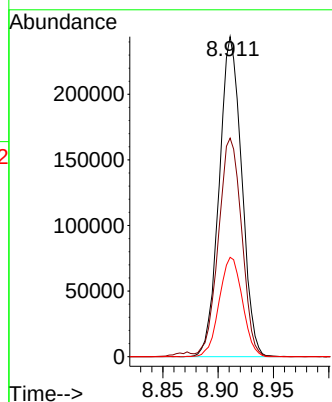
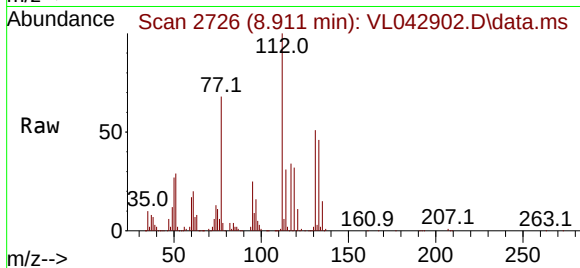
Tgt Ion:112 Resp: 345342

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

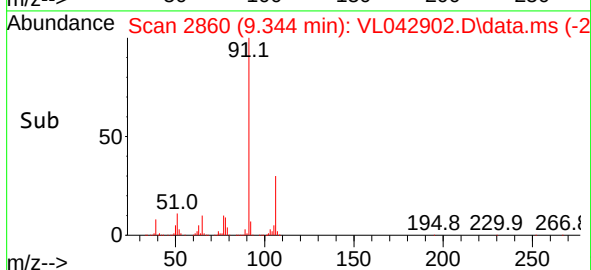
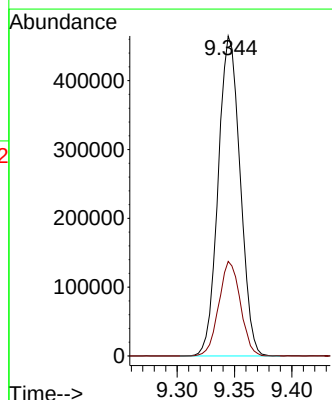
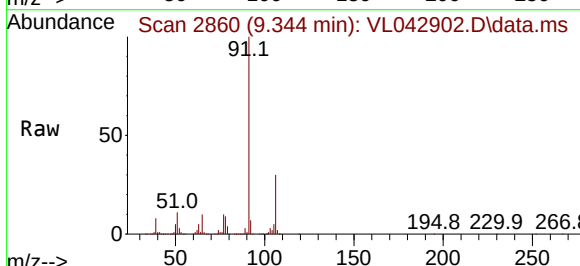
Acq: 08 Sep 2025 13:35

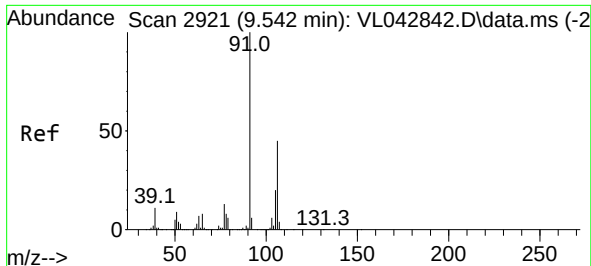
Tgt Ion: 91 Resp: 618650

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 :

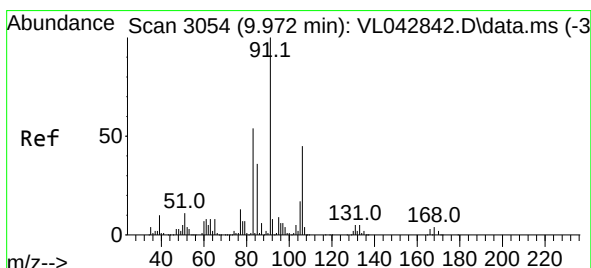
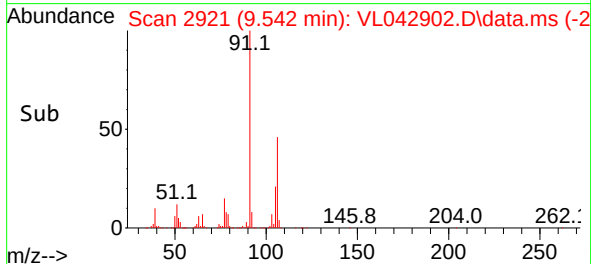
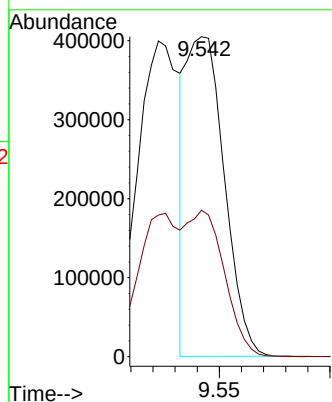
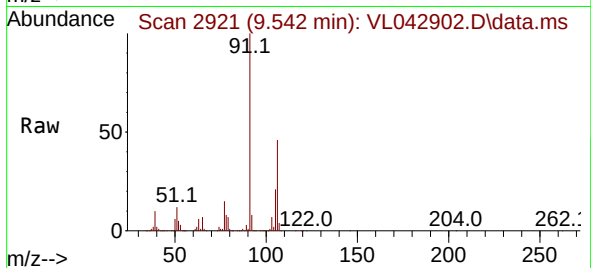
VL0908ABS01

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

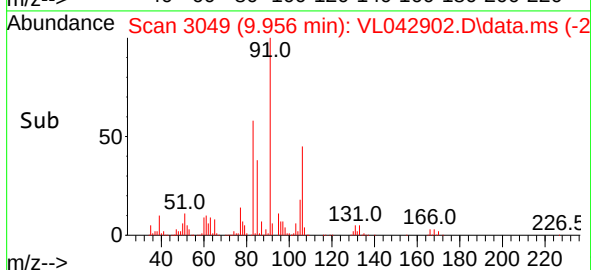
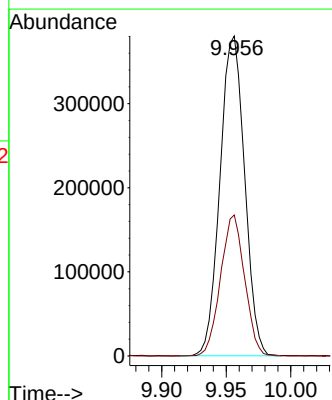
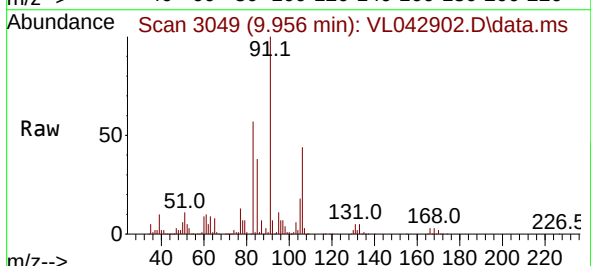
Acq: 08 Sep 2025 13:35

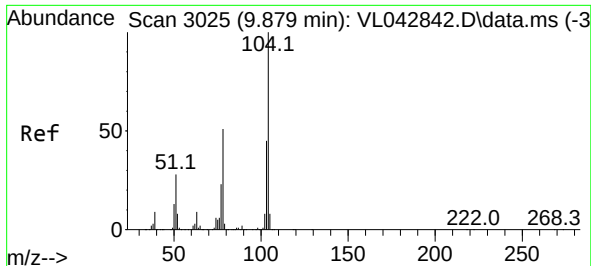
Tgt Ion: 91 Resp: 504922

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

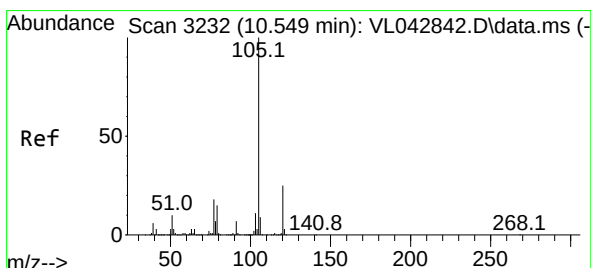
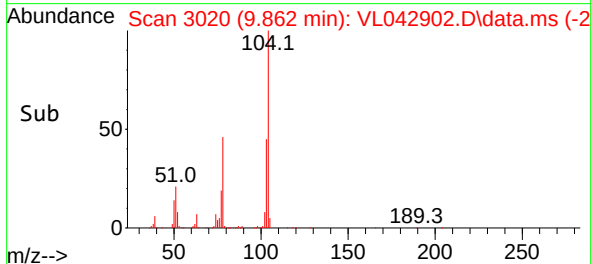
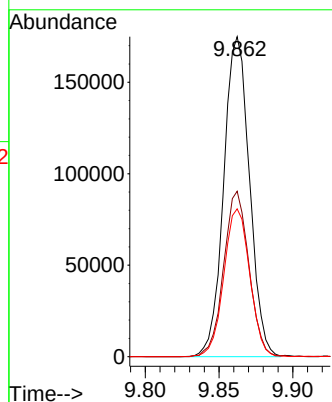
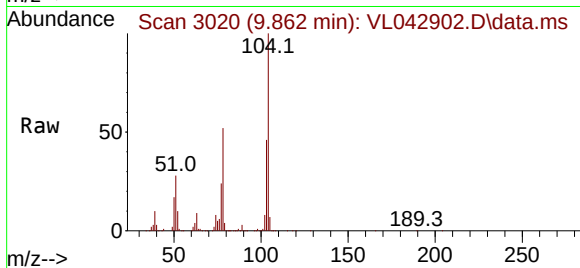




#61
Styrene
Concen: 10.644 ppbv
RT: 9.862 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

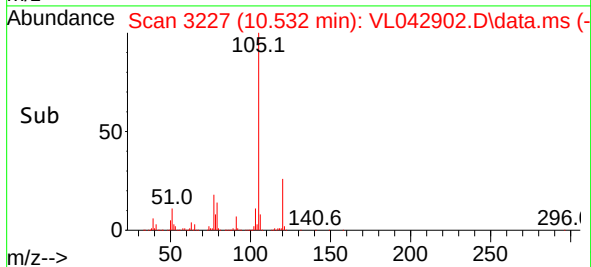
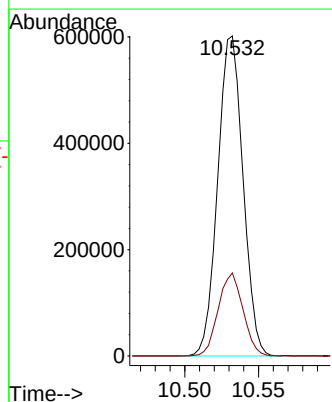
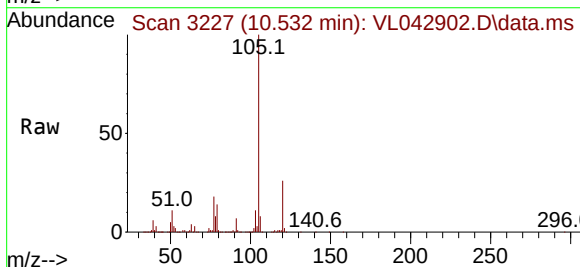
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

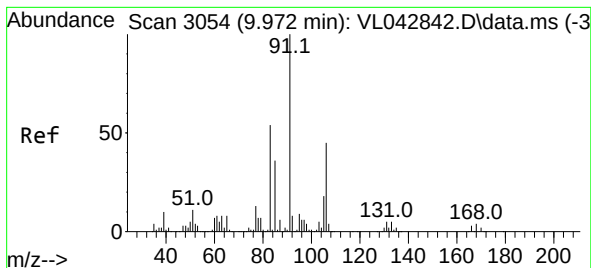
Tgt Ion:104 Resp: 212594
Ion Ratio Lower Upper
104 100
78 50.7 40.6 61.0
103 46.6 37.7 56.5



#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

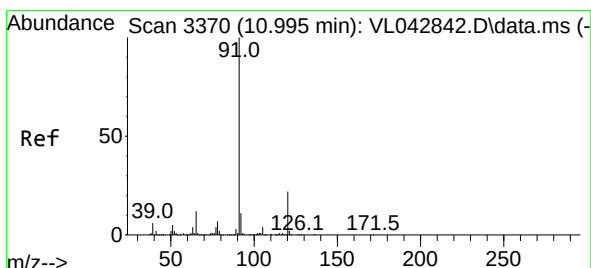
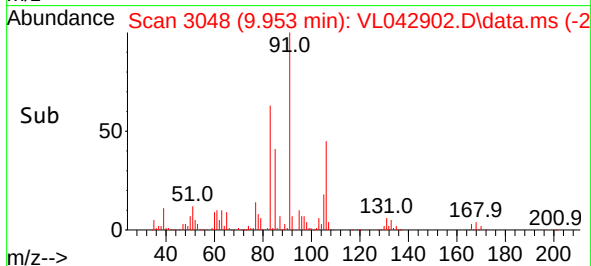
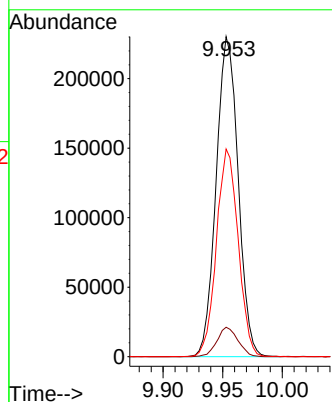
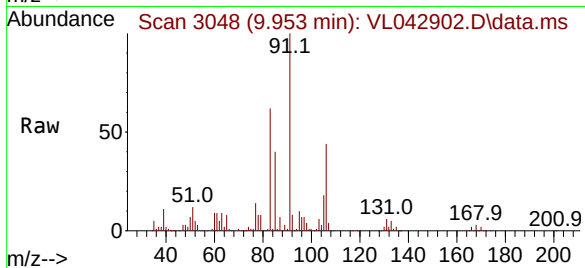
Tgt Ion: 83 Resp: 295111

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

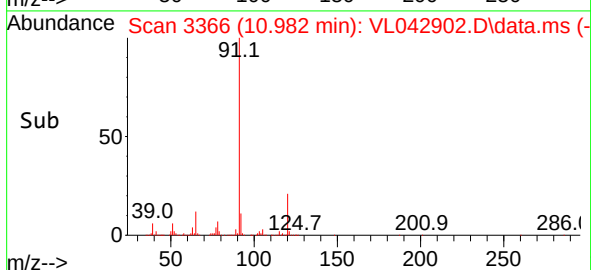
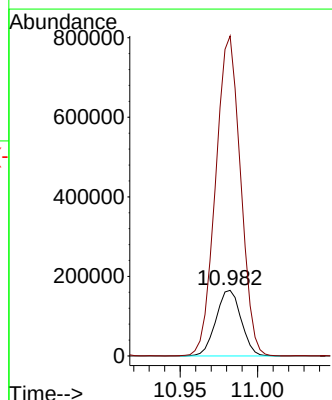
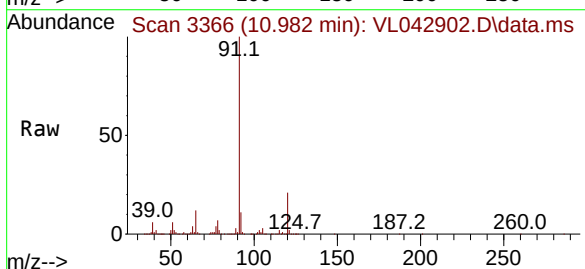
Acq: 08 Sep 2025 13:35

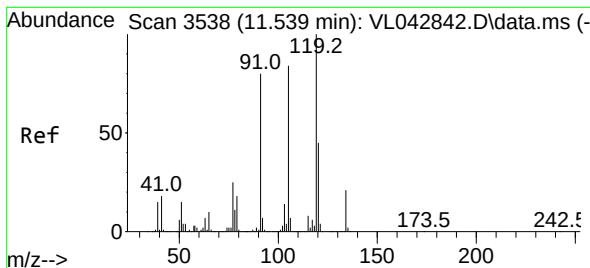
Tgt Ion:120 Resp: 186258

Ion Ratio Lower Upper

120 100

91 484.6 375.8 563.6

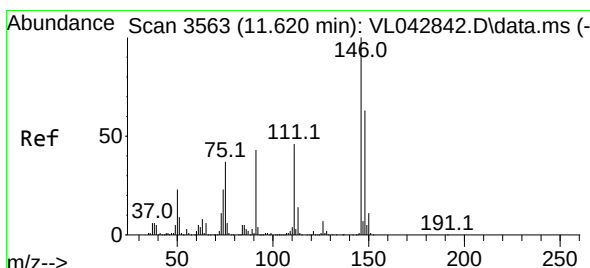
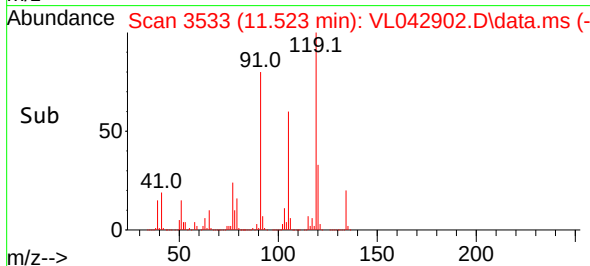
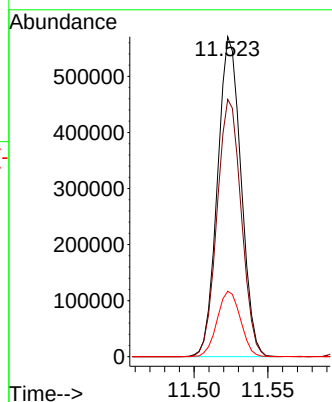
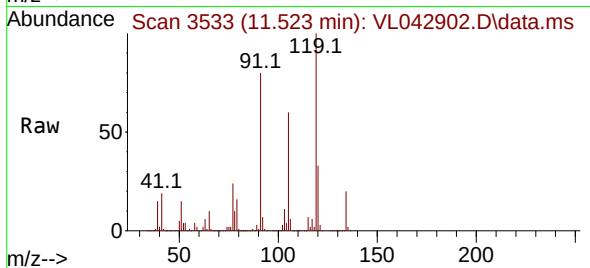




#65
tert-Butylbenzene
Concen: 11.541 ppbv
RT: 11.523 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

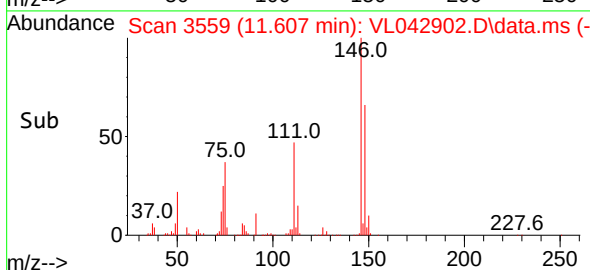
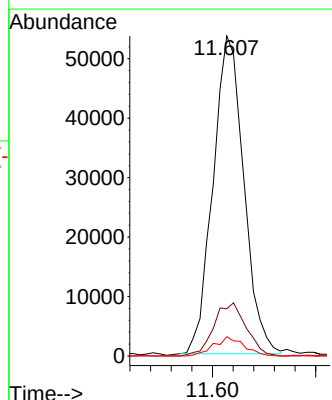
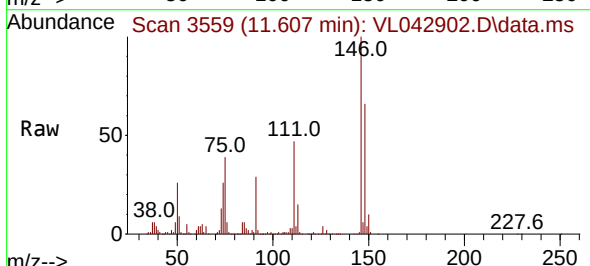
Instrument :
MSVOA_1
ClientSampleId :
VL0908ABS01

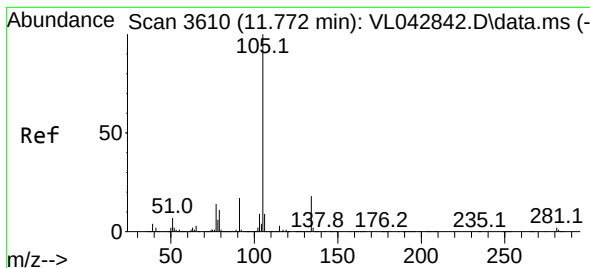
Tgt Ion:119 Resp: 633844
Ion Ratio Lower Upper
119 100
91 82.5 63.9 95.9
134 20.3 17.0 25.4



#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

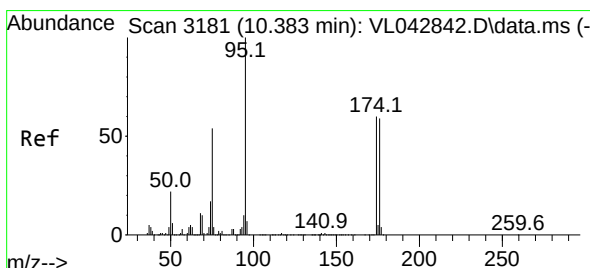
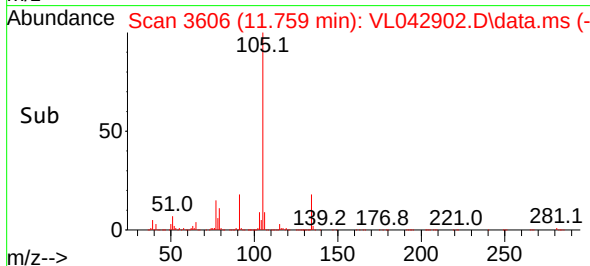
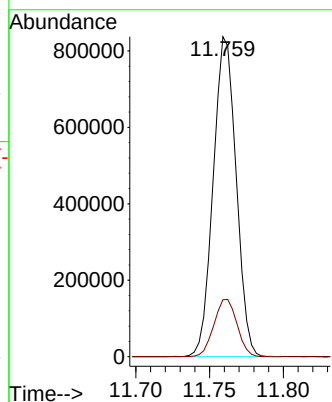
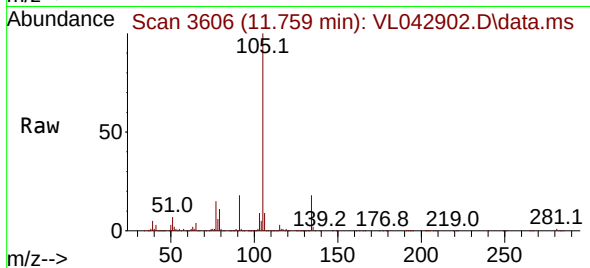




#67
 sec-Butylbenzene
 Concen: 11.739 ppbv
 RT: 11.759 min Scan# 3176
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

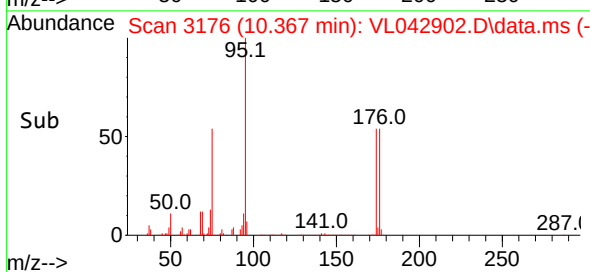
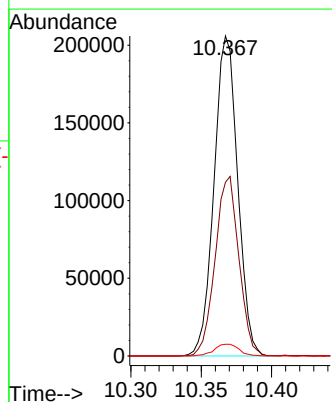
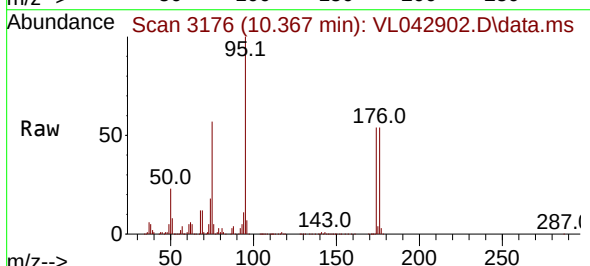
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

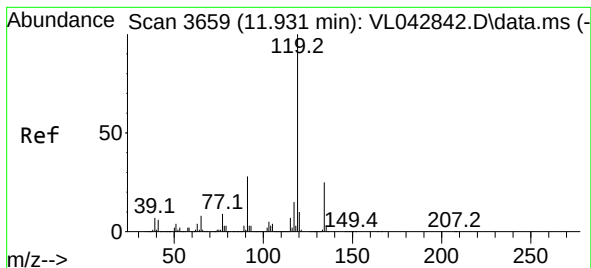
Tgt Ion:105 Resp: 904977
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.9 22.3



#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

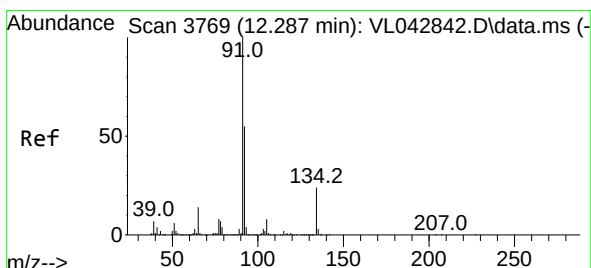
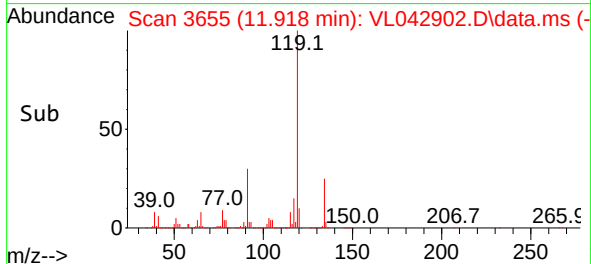
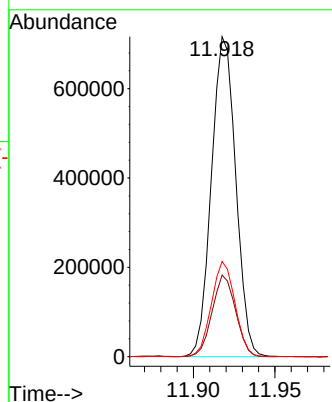
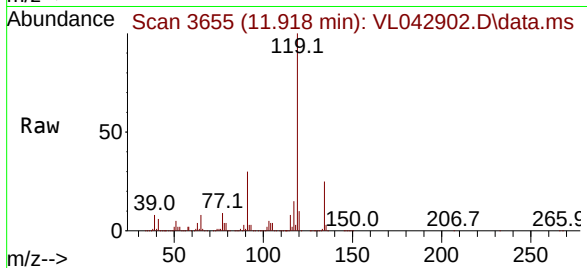




#69
 p-Isopropyltoluene
 Concen: 11.229 ppbv
 RT: 11.918 min Scan# 3655
 Delta R.T. -0.000 min
 Lab File: VL042902.D
 Acq: 08 Sep 2025 13:35

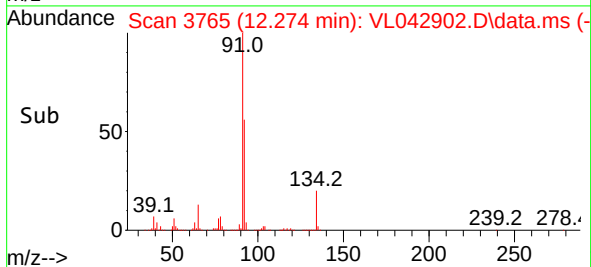
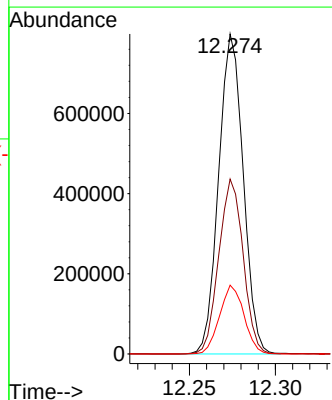
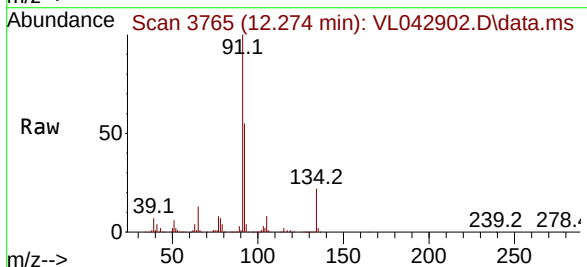
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0908ABS01

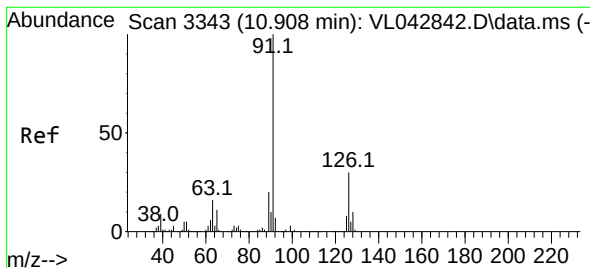
Tgt Ion:119 Resp: 743217
 Ion Ratio Lower Upper
 119 100
 134 24.6 20.6 30.8
 91 28.9 22.6 34.0



#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 :

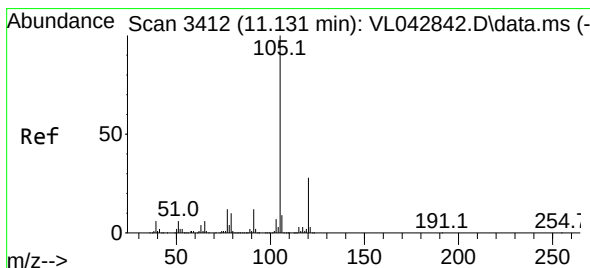
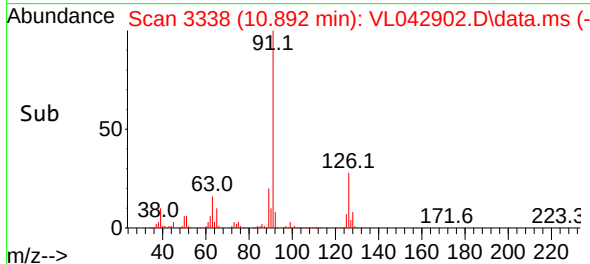
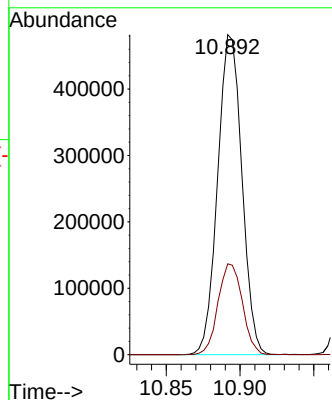
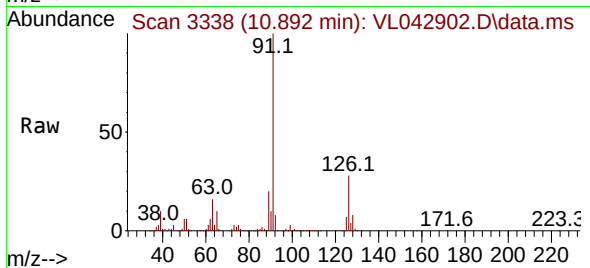
VL0908ABS01

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

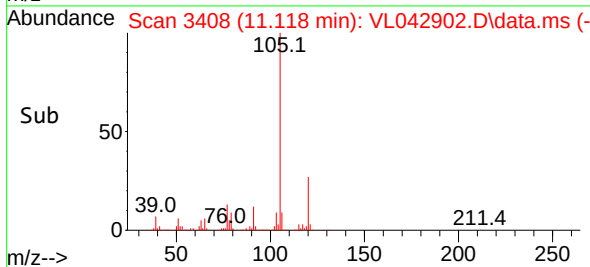
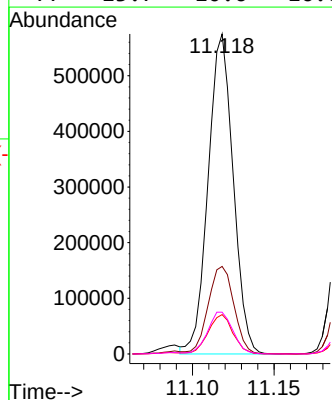
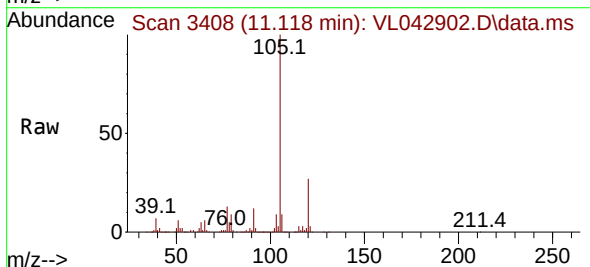
Ion Ratio Lower Upper

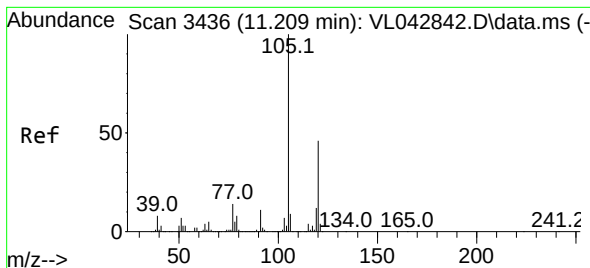
105 100

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# 3436

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_1

ClientSampleId :

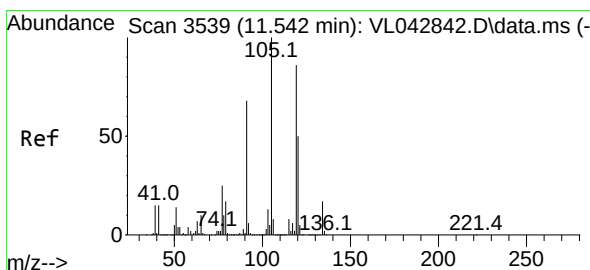
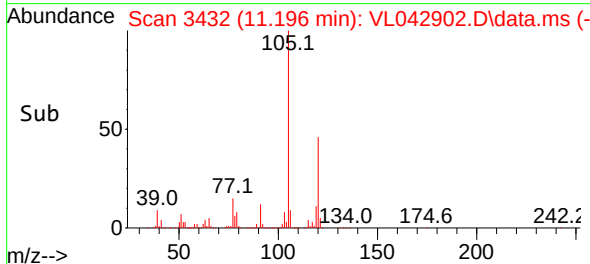
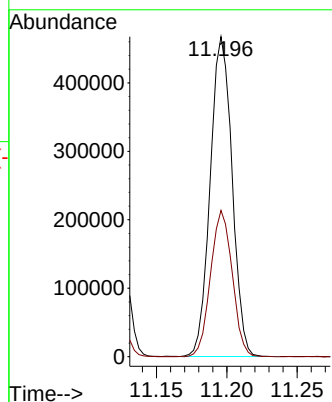
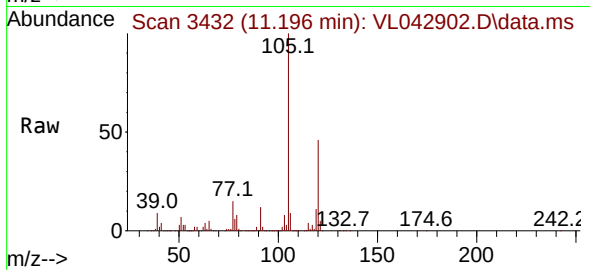
VL0908ABS01

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

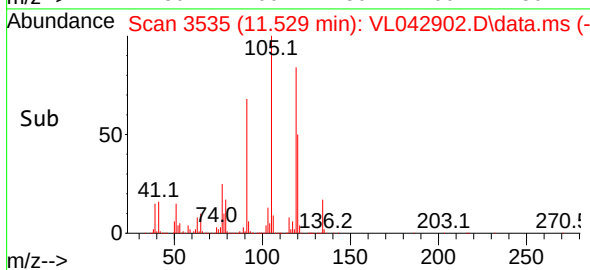
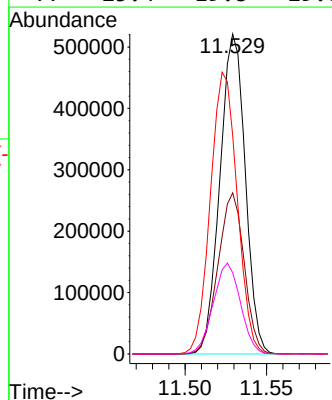
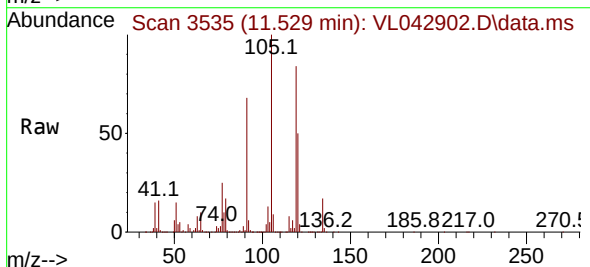
Ion Ratio Lower Upper

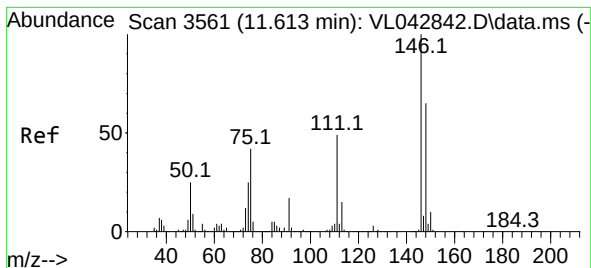
105 100

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_1

ClientSampleId :

VL0908ABS01

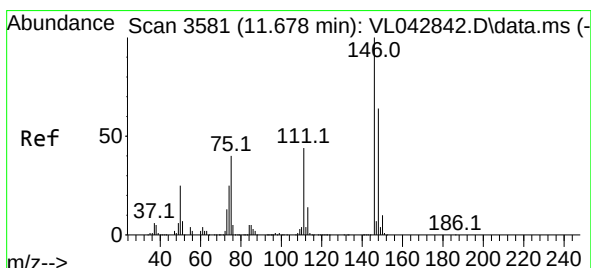
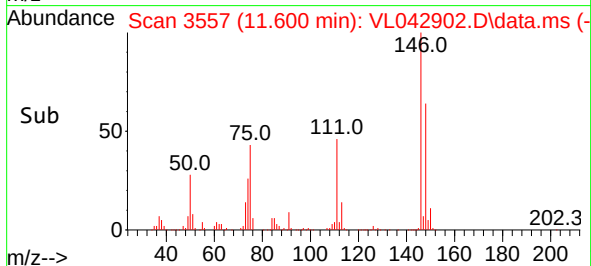
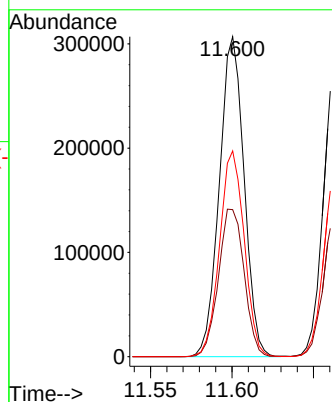
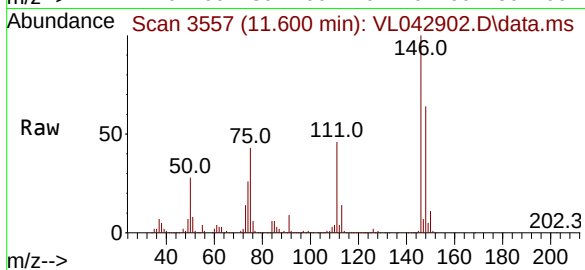
Tgt Ion:146 Resp: 322979

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

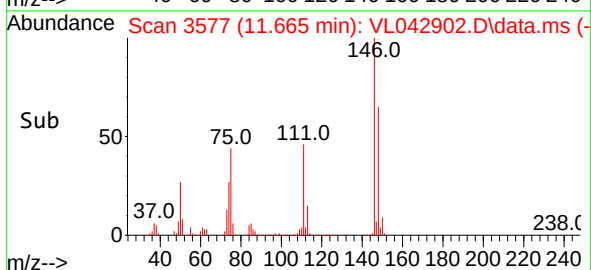
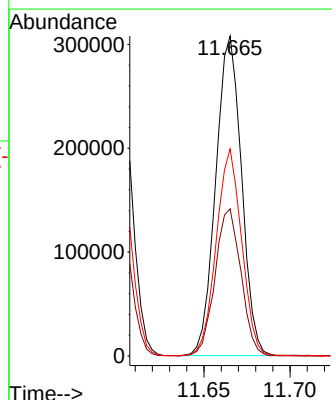
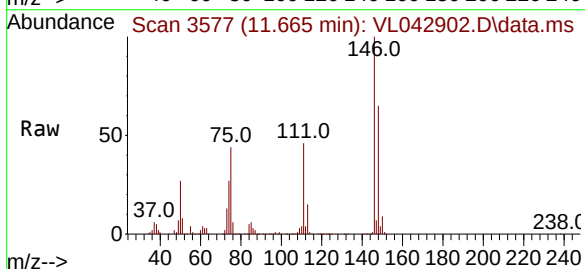
Tgt Ion:146 Resp: 320689

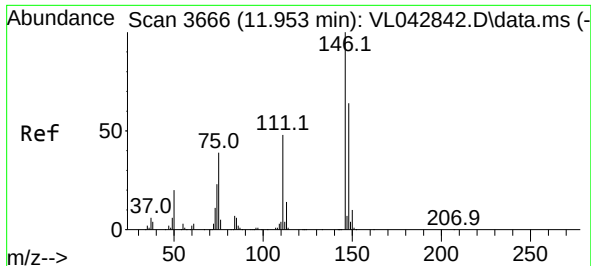
Ion Ratio Lower Upper

146 100

111 46.3 22.7 68.1

148 64.1 31.8 95.3

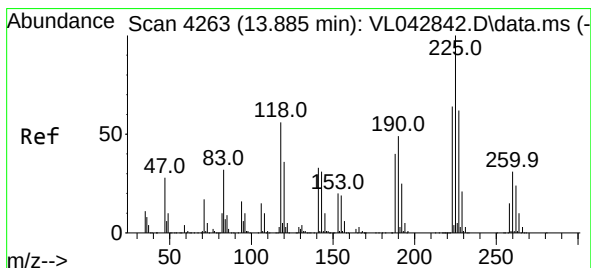
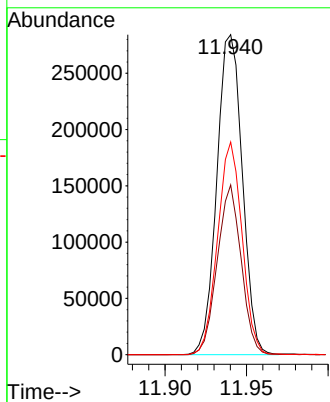
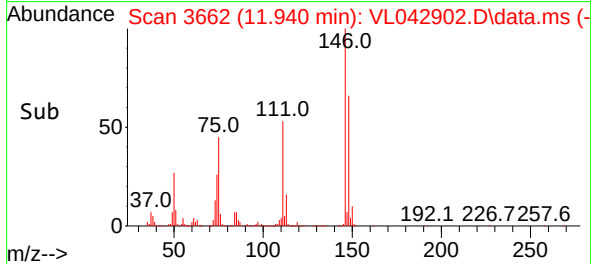
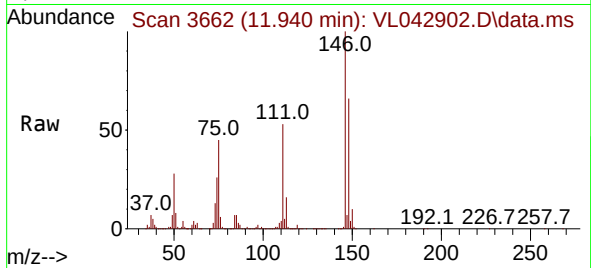




#77
1,2-Dichlorobenzene
Concen: 11.524 ppbv
RT: 11.940 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

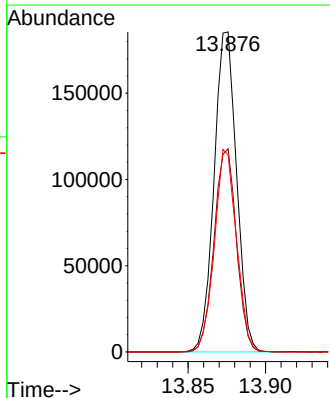
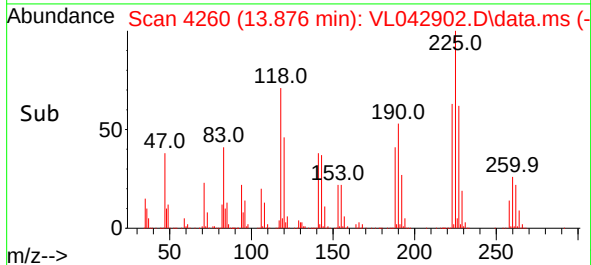
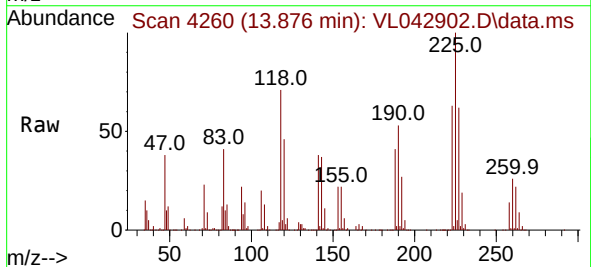
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

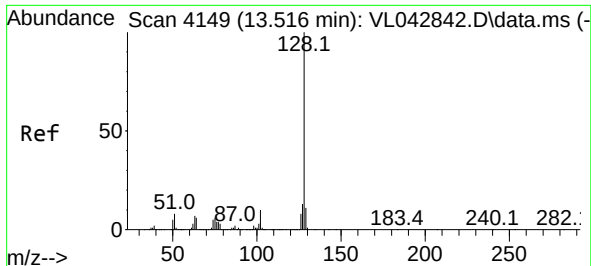
Tgt Ion:146 Resp: 309433
Ion Ratio Lower Upper
146 100
111 49.7 24.6 74.0
148 63.7 32.0 96.0



#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

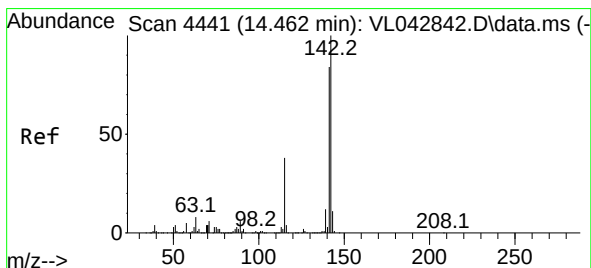
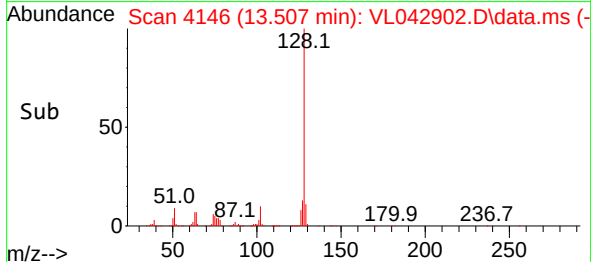
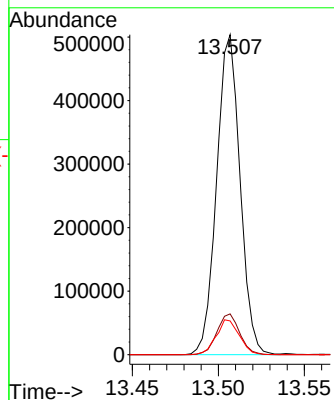
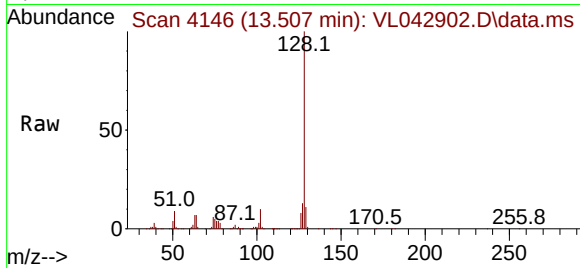




#79
Naphthalene
Concen: 10.914 ppbv
RT: 13.507 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

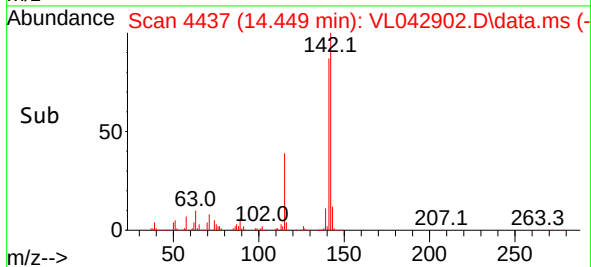
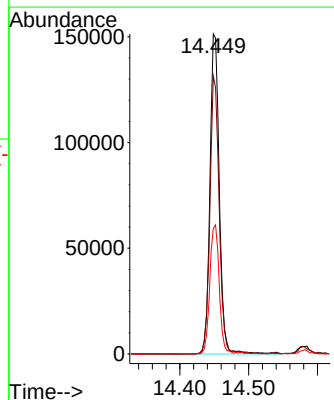
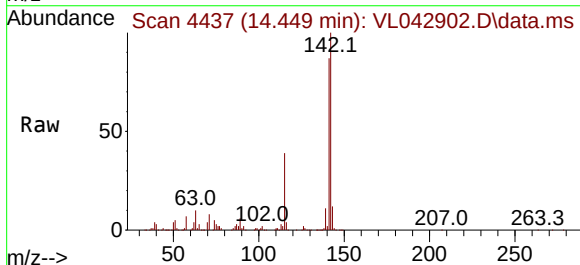
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

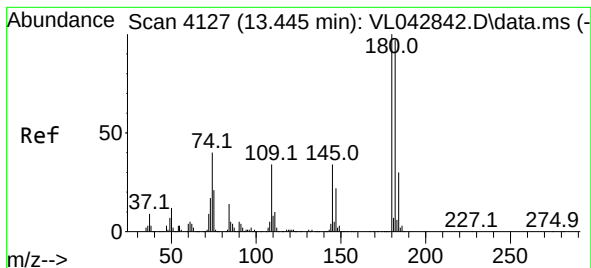
Tgt Ion:128 Resp: 477313
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 10.6 8.9 13.3



#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

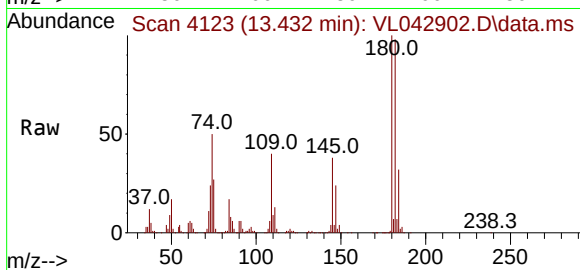
Acq: 08 Sep 2025 13:35

Instrument :

MSVOA_L

ClientSampleId :

VL0908ABS01



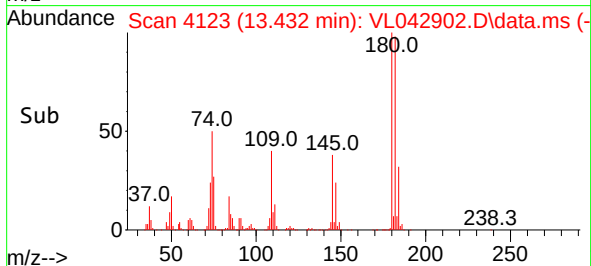
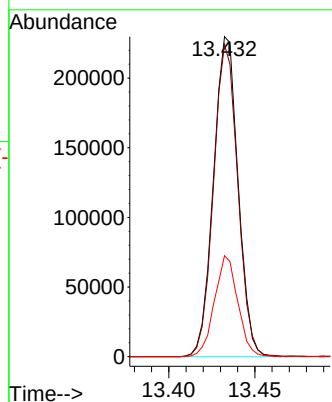
Tgt Ion:180 Resp: 228630

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 : VL042904.D
 Acq On : 08 Sep 2025 15:15
 Operator : SY/MD
 Sample : Q3037-01
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Quant Time: Sep 09 00:56:51 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	2.784	49	138126	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	368558	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	302216	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.370	95	236452	10.432	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.495	85	9878	0.488	ppbv	90
3) Chlorodifluoromethane	1.473	51	93046	4.158	ppbv #	91
4) Chloromethane	1.531	50	8036	0.984	ppbv	100
7) Chloroethane	1.703	64	380	0.121	ppbv	88
9) Propene	1.884	41	252978	26.179	ppbv	91
10) Heptane	4.965	43	1865	0.072	ppbv	95
11) Trichlorofluoromethane	1.495	101	838	0.042	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.133	101	1137	0.071	ppbv	87
13) Ethanol	1.719	45	172209	194.899	ppbv	90
15) Acetone	1.832	43	2285778	125.100	ppbv #	77
16) 1,3-Butadiene	1.618	39	4721	0.570	ppbv #	21
17) tert-Butyl alcohol	2.039	59	3472	0.160	ppbv #	1
19) Isopropyl Alcohol	1.884	45	2178522	199.623	ppbv	98
20) Methylene Chloride	2.059	84	8085	1.056	ppbv #	82
21) Allyl Chloride	1.961	41	7143	0.553	ppbv #	23
23) Vinyl Acetate	2.450	43	21424	0.853	ppbv #	92
25) Ethyl Acetate	2.832	43	151536	3.427	ppbv #	94
26) Hexane	2.822	57	18399	0.901	ppbv #	1
27) Carbon Disulfide	2.146	76	887	0.045	ppbv #	70
29) Chloroform	2.845	83	8304	0.285	ppbv	89
31) cis-1,2-Dichloroethene	2.832	61	16434	0.806	ppbv #	22
34) 2-Butanone	2.557	43	26086	1.048	ppbv	96
35) Carbon Tetrachloride	3.764	117	1143	0.045	ppbv #	84
36) Benzene	3.657	78	1116	0.032	ppbv #	72
37) 1,2-Dichloroethane	3.214	62	719	0.039	ppbv #	79
39) 1,2-Dichloropropane	3.949	63	97418	7.558	ppbv #	27
40) 1,4-Dioxane	4.583	88	555	0.091	ppbv #	1
41) Tetrahydrofuran	3.059	42	2514	0.181	ppbv #	53
43) Methyl Methacrylate	4.874	69	1043	0.072	ppbv #	1
44) 2,2,4-Trimethylpentane	4.625	57	3374	0.056	ppbv #	22
50) 4-Methyl-2-Pentanone	5.739	43	34197	1.017	ppbv #	38
51) 2-Hexanone	7.441	43	2979	0.113	ppbv #	55
53) Toluene	6.923	91	13909	0.331	ppbv	98
58) Ethyl Benzene	9.351	91	3051	0.057	ppbv	100
60) o-Xylene	9.959	91	4398	0.105	ppbv	100
61) Styrene	9.862	104	831	0.042	ppbv #	28
64) n-propylbenzene	10.988	120	910	0.058	ppbv #	1
65) tert-Butylbenzene	11.879	119	2940	0.054	ppbv	92
66) Benzyl Chloride	11.616	91	271	0.039	ppbv #	65
67) sec-Butylbenzene	12.218	105	3516	0.046	ppbv	97
69) p-Isopropyltoluene	11.917	119	4040	0.062	ppbv #	85
71) 2-Chlorotoluene	10.853	91	2992	0.063	ppbv	73
72) 4-Ethyltoluene	11.118	105	12697	0.249	ppbv #	62

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2

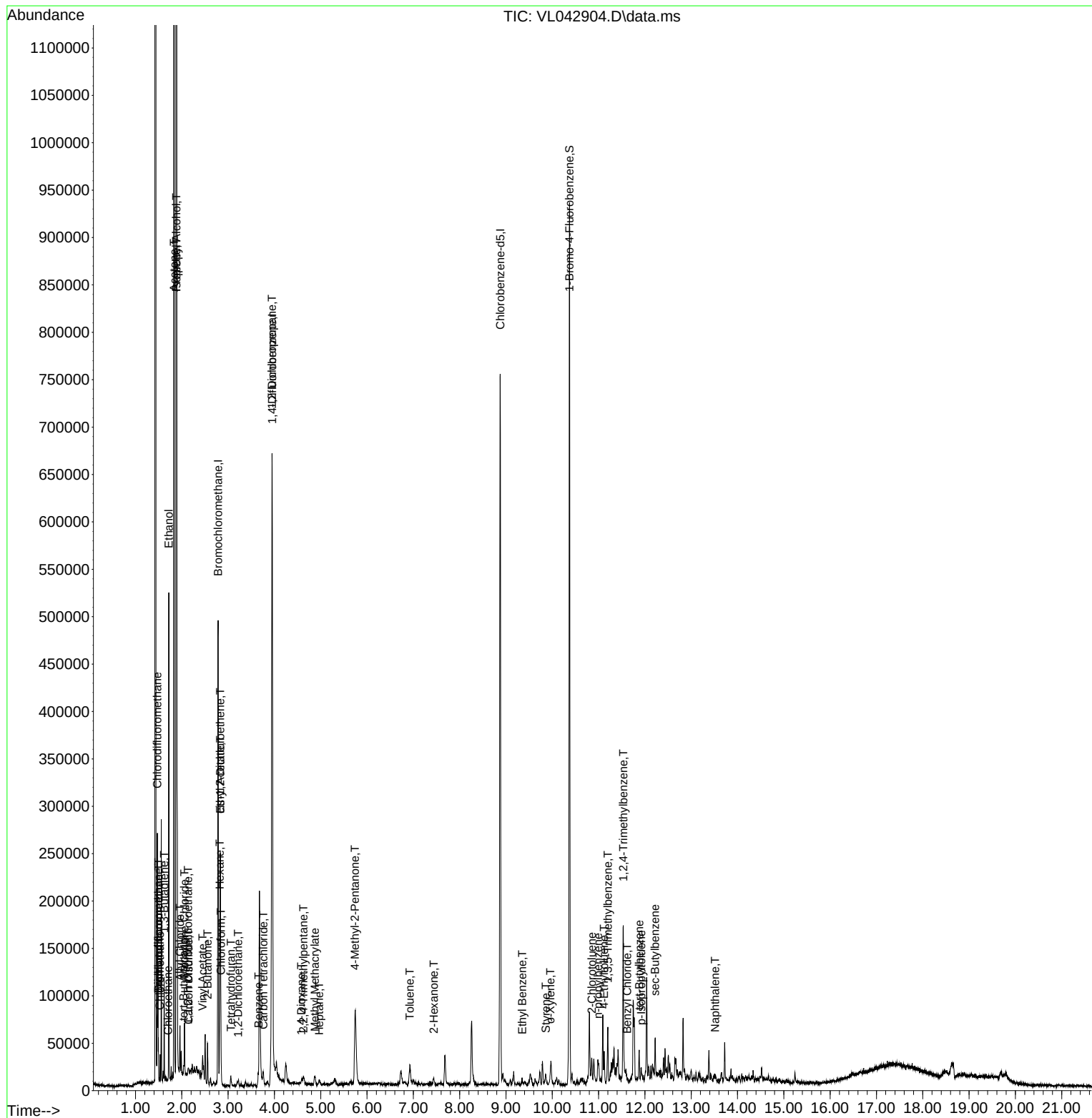
Quant Time: Sep 09 00:56:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

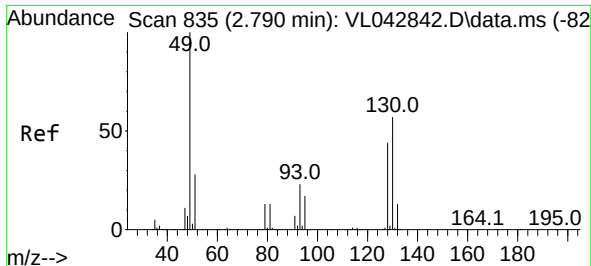
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.199	105	13893	0.320	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	53900	1.133	ppbv #	60
79) Naphthalene	13.513	128	1724	0.040	ppbv	96

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

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Instrument :
MSVOA_L
ClientSampleId :
IA-2

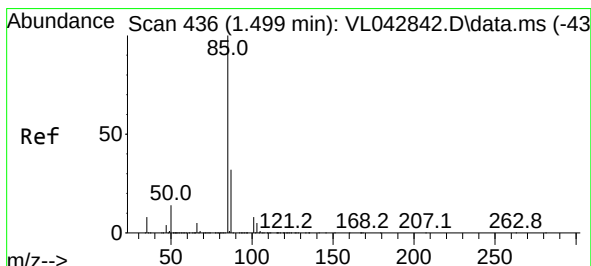
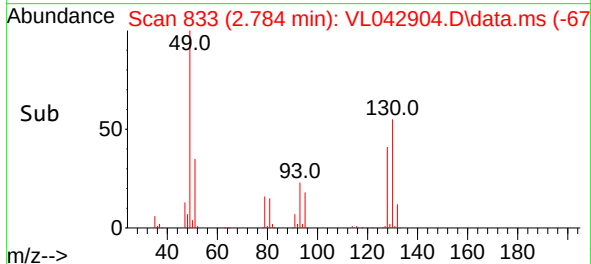
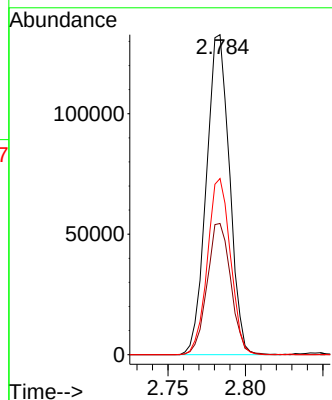
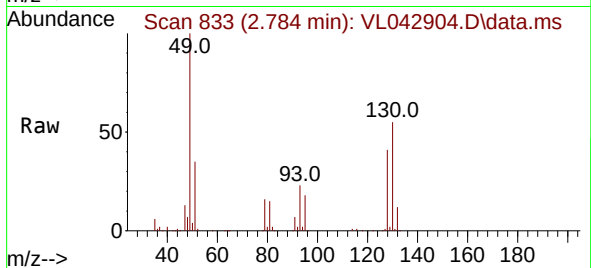




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 835
 Delta R.T. 0.007 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

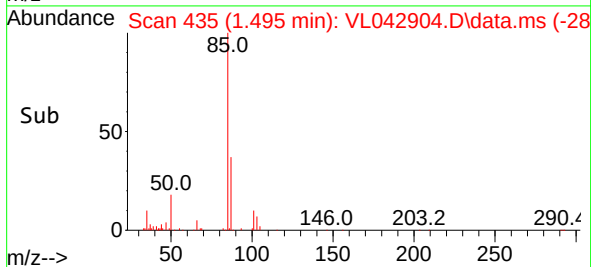
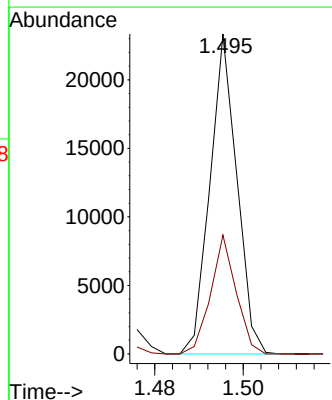
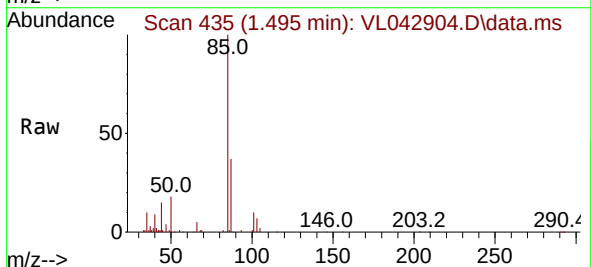
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

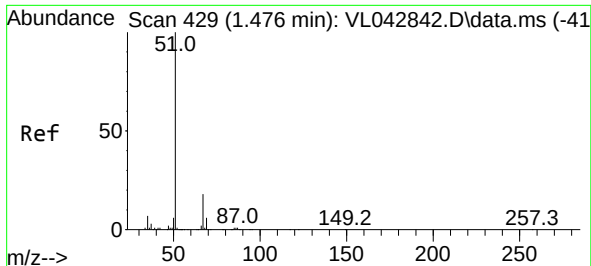
Tgt Ion: 49 Resp: 138126
 Ion Ratio Lower Upper
 49 100
 128 41.9 23.7 71.1
 130 54.7 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.488 ppbv
 RT: 1.495 min Scan# 435
 Delta R.T. 0.003 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

Tgt Ion: 85 Resp: 9878
 Ion Ratio Lower Upper
 85 100
 87 37.1 25.3 37.9

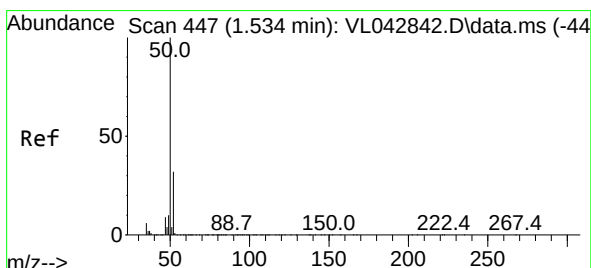
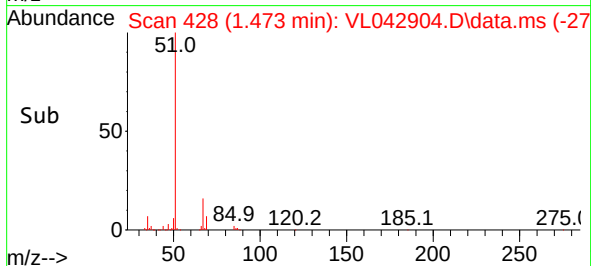
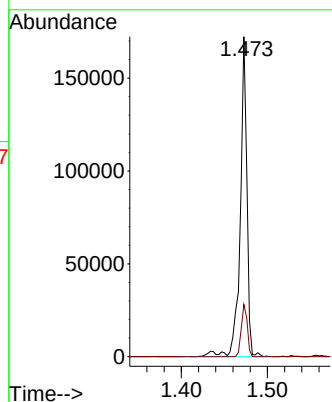
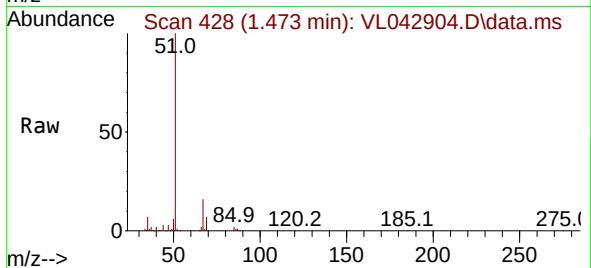




#3
Chlorodifluoromethane
Concen: 4.158 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

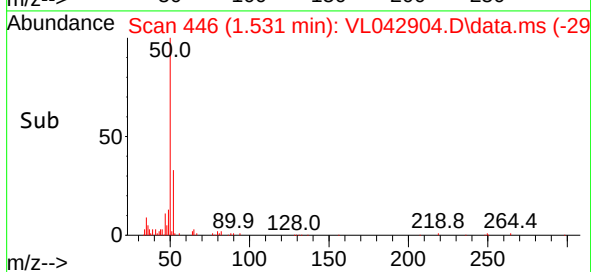
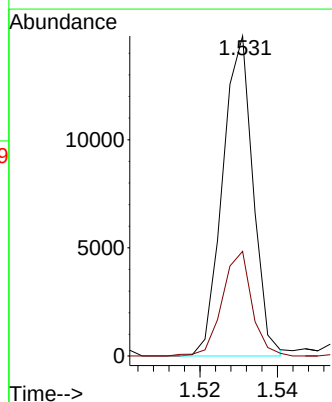
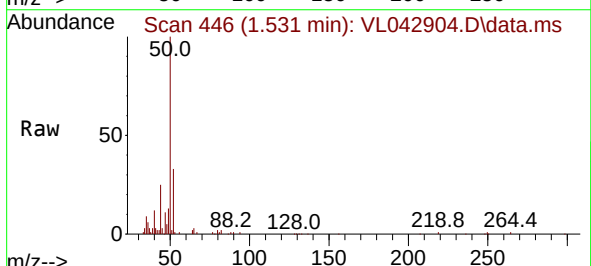
Instrument :
MSVOA_L
ClientSampleId :
IA-2

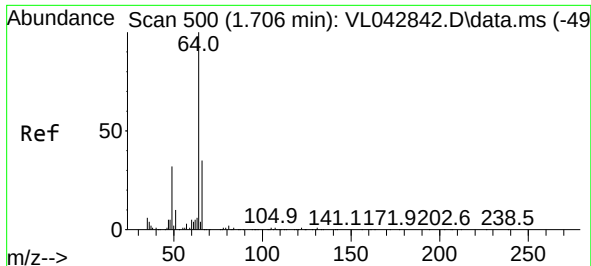
Tgt Ion: 51 Resp: 93046
Ion Ratio Lower Upper
51 100
67 14.6 14.9 22.3#



#4
Chloromethane
Concen: 0.984 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 50 Resp: 8036
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9

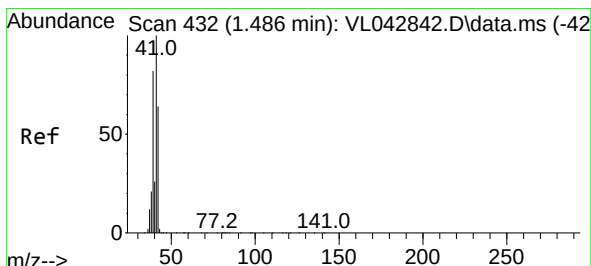
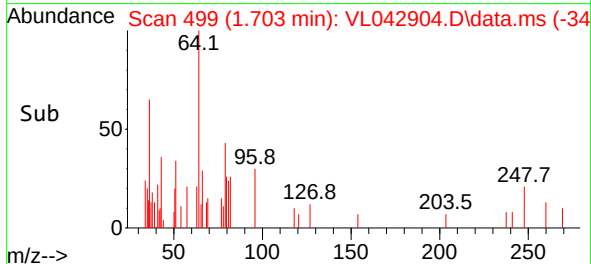
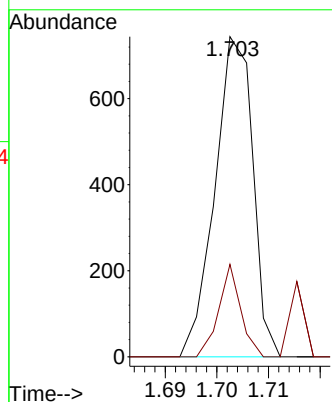
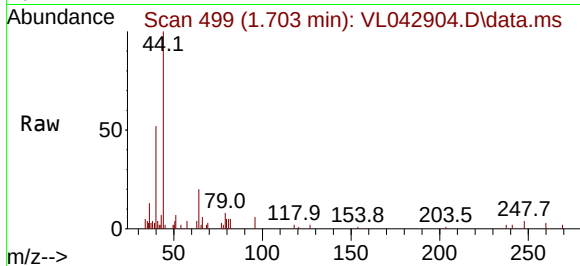




#7
Chloroethane
Concen: 0.121 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

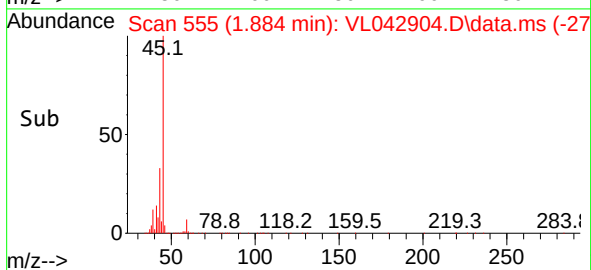
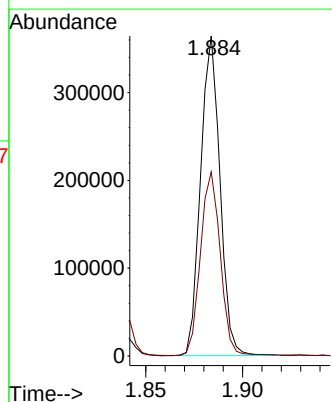
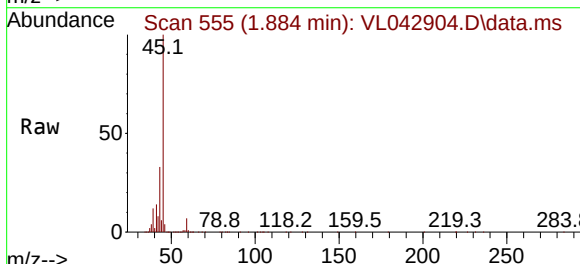
Instrument :
MSVOA_L
ClientSampleId :
IA-2

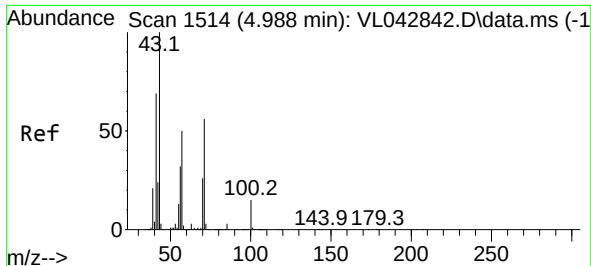
Tgt Ion: 64 Resp: 380
Ion Ratio Lower Upper
64 100
66 28.9 28.6 42.8



#9
Propene
Concen: 26.179 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.408 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 41 Resp: 252978
Ion Ratio Lower Upper
41 100
42 58.9 53.0 79.4





#10

Heptane

Concen: 0.072 ppbv

RT: 4.965 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

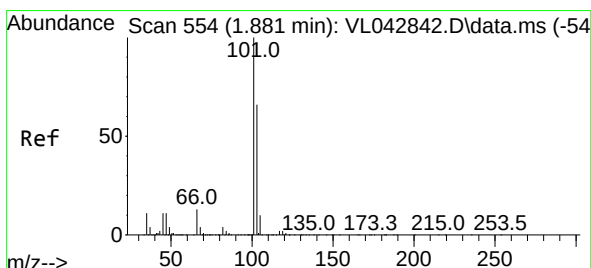
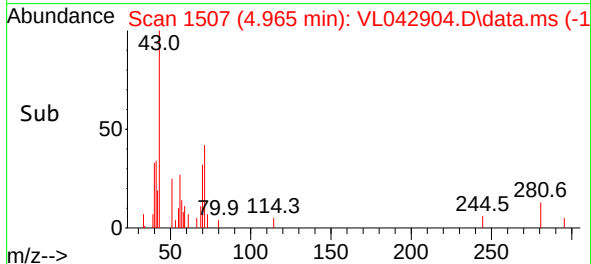
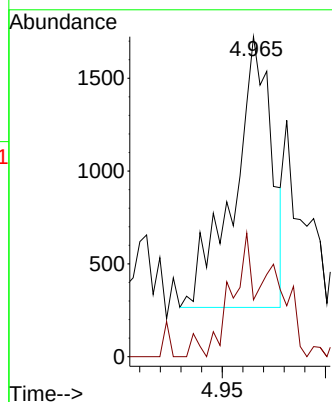
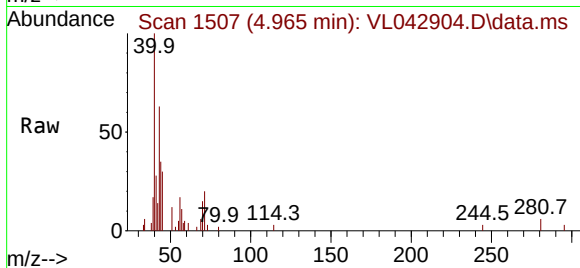
IA-2

Tgt Ion: 43 Resp: 1865

Ion Ratio Lower Upper

43 100

57 55.3 41.4 62.0



#11

Trichlorofluoromethane

Concen: 0.042 ppbv

RT: 1.495 min Scan# 435

Delta R.T. -0.376 min

Lab File: VL042904.D

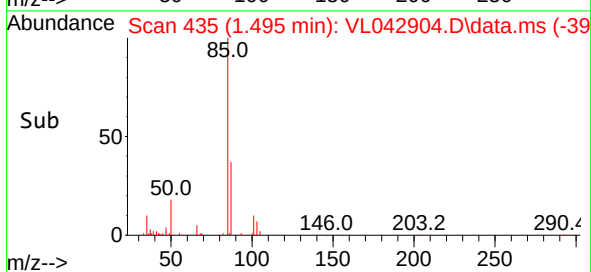
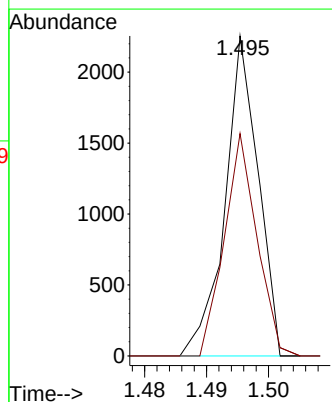
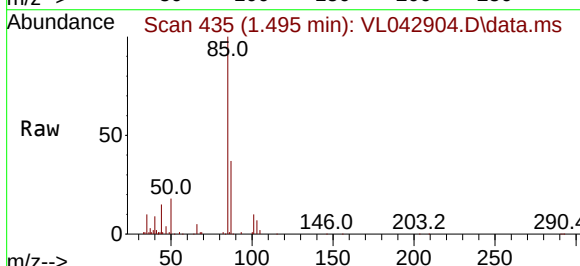
Acq: 08 Sep 2025 15:15

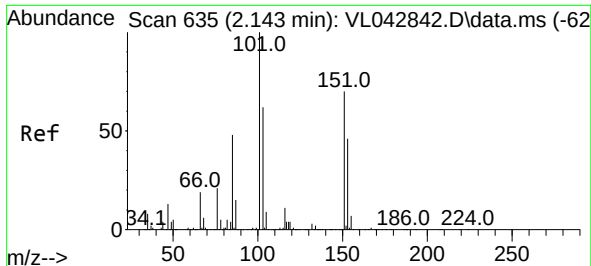
Tgt Ion:101 Resp: 838

Ion Ratio Lower Upper

101 100

103 69.5 52.5 78.7

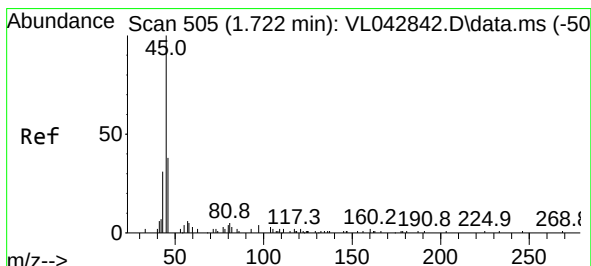
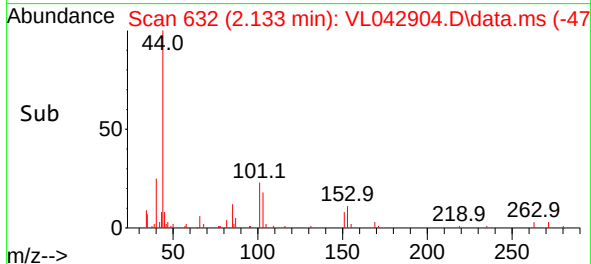
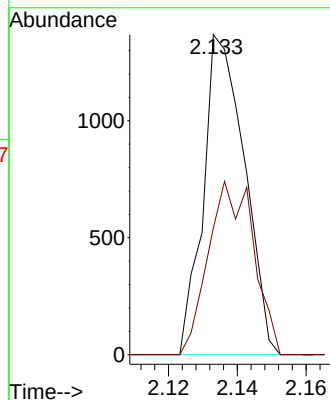
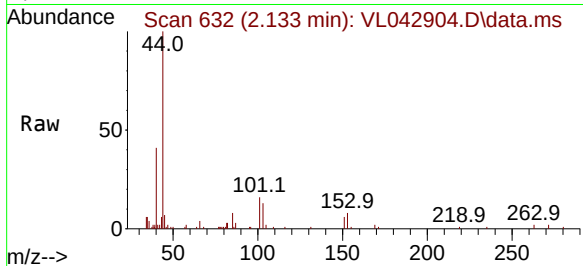




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.133 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

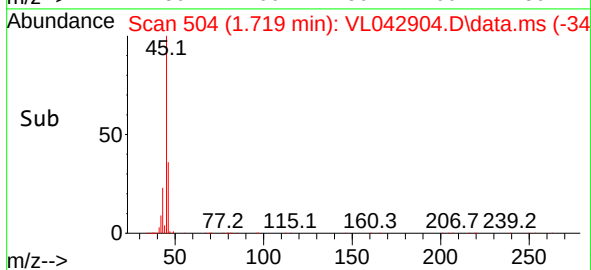
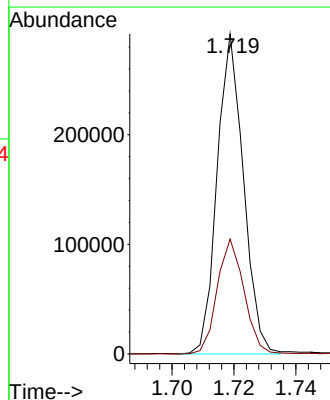
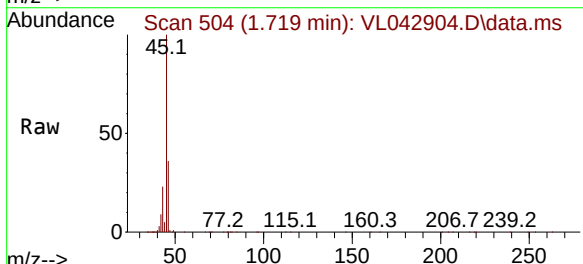
Instrument :
MSVOA_L
ClientSampleId :
IA-2

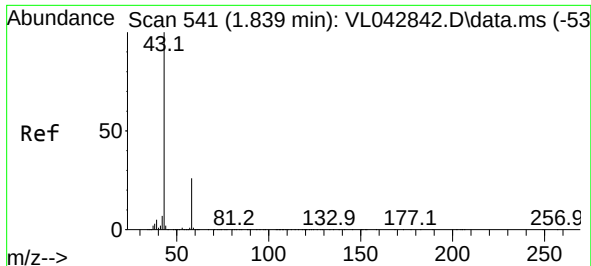
Tgt Ion:101 Resp: 1137
Ion Ratio Lower Upper
101 100
151 59.5 56.4 84.6



#13
Ethanol
Concen: 194.899 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 45 Resp: 172209
Ion Ratio Lower Upper
45 100
46 37.3 17.5 69.9

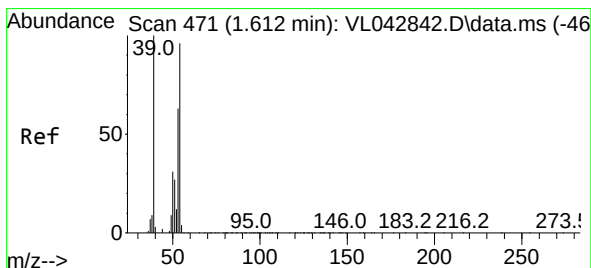
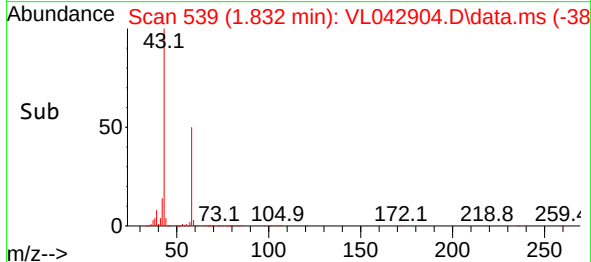
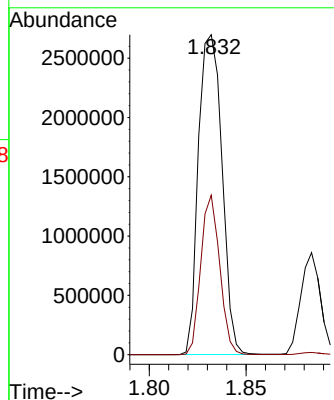
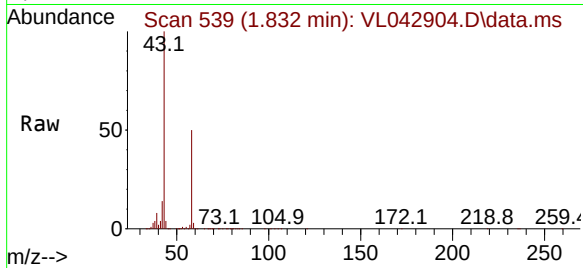




#15
Acetone
Concen: 125.100 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

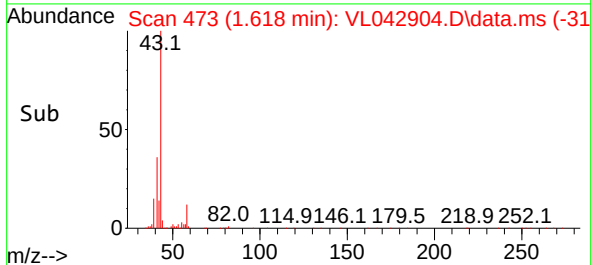
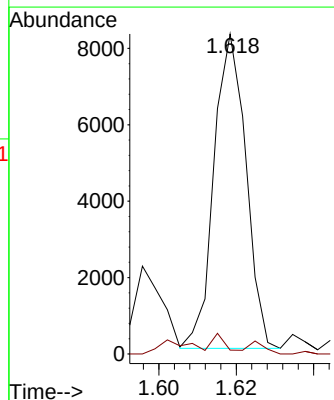
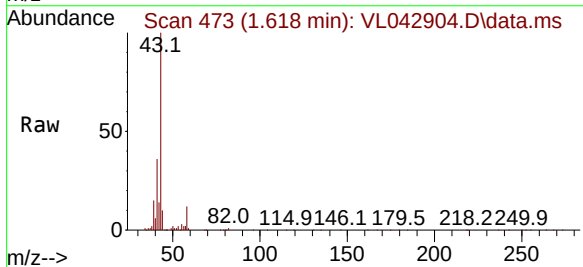
Instrument :
MSVOA_L
ClientSampleId :
IA-2

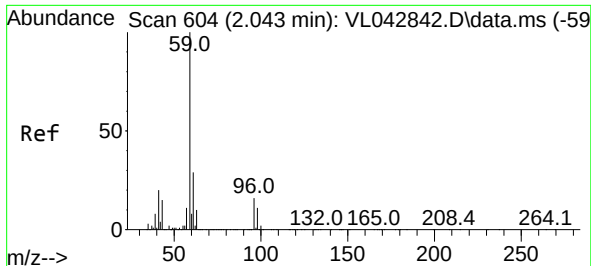
Tgt Ion: 43 Resp: 2285778
Ion Ratio Lower Upper
43 100
58 40.1 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.570 ppbv
RT: 1.618 min Scan# 473
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 39 Resp: 4721
Ion Ratio Lower Upper
39 100
54 9.7 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.160 ppbv

RT: 2.039 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_1

ClientSampleId :

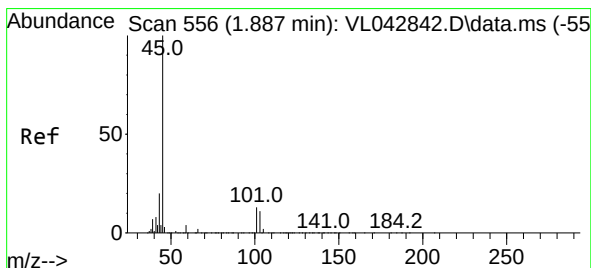
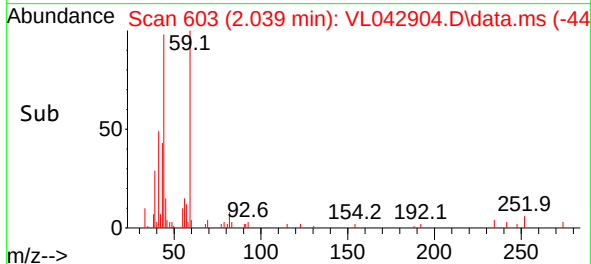
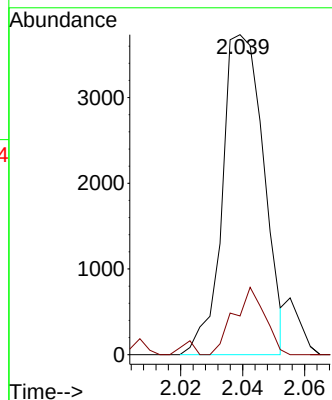
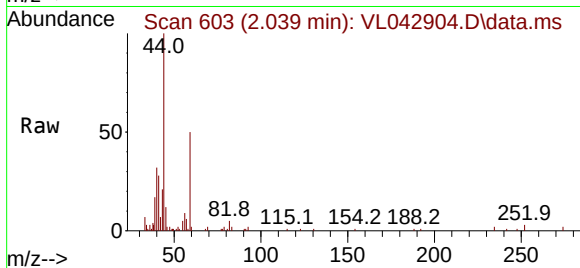
IA-2

Tgt Ion: 59 Resp: 3472

Ion Ratio Lower Upper

59 100

57 56.6 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 199.623 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL042904.D

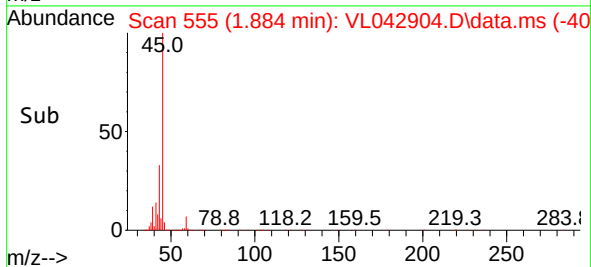
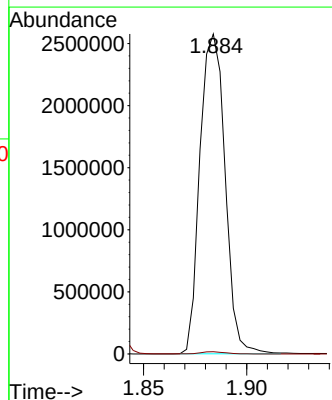
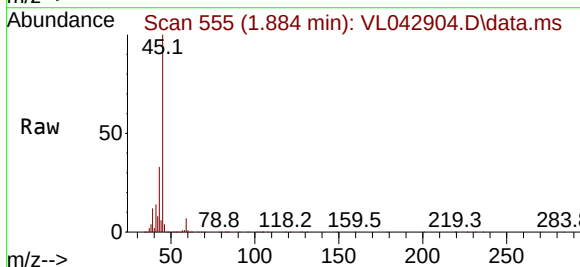
Acq: 08 Sep 2025 15:15

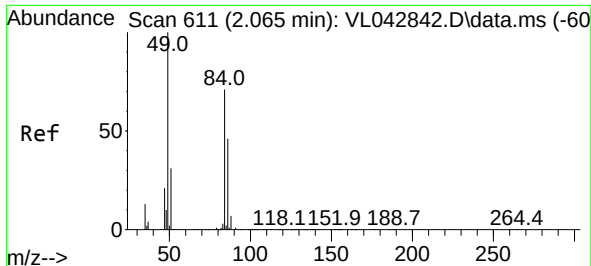
Tgt Ion: 45 Resp: 2178522

Ion Ratio Lower Upper

45 100

58 42.1 32.7 49.1

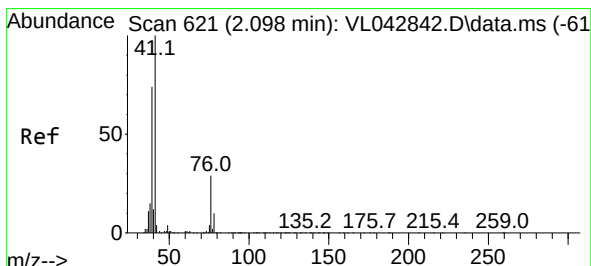
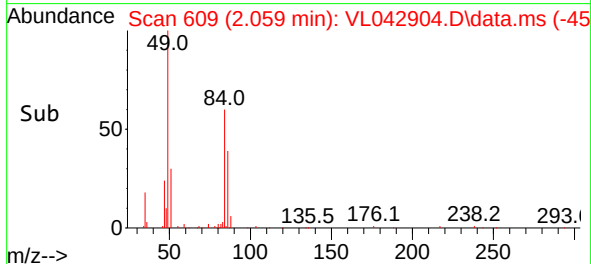
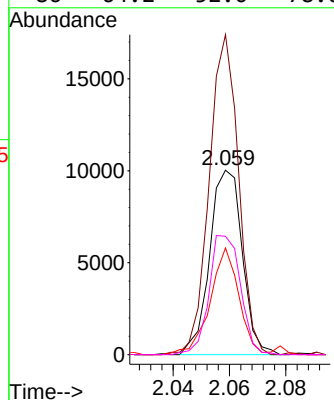
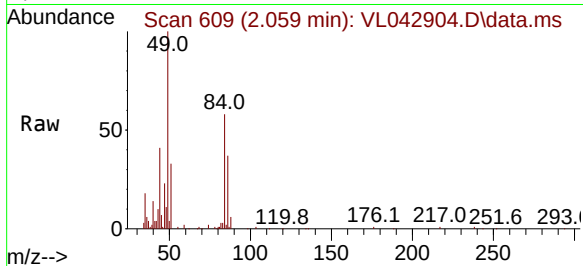




#20
Methylene Chloride
Concen: 1.056 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

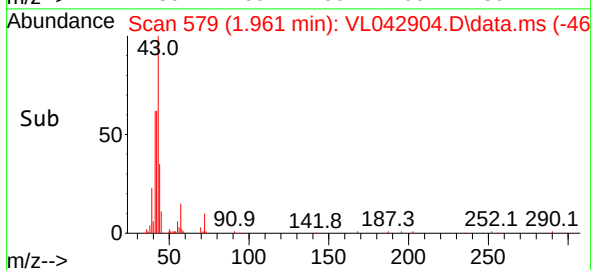
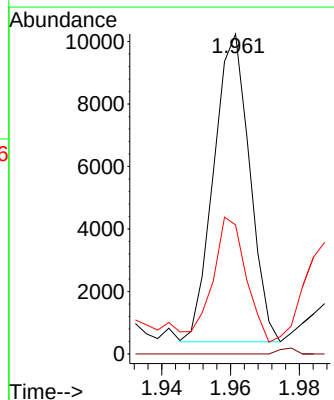
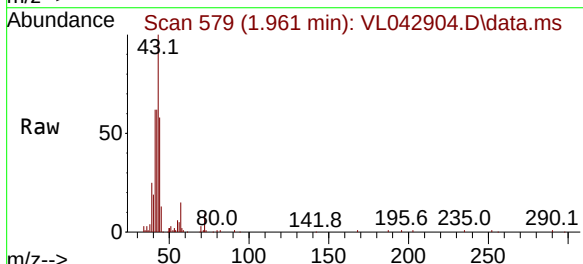
Instrument :
MSVOA_L
ClientSampleId :
IA-2

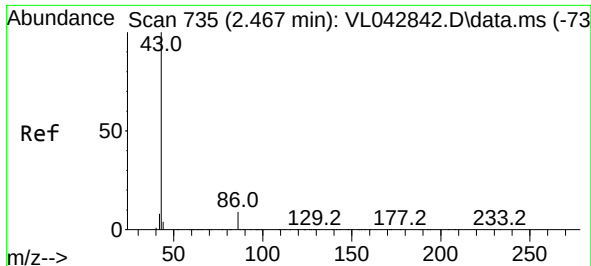
Tgt Ion:	84	Resp:	8085
Ion	Ratio	Lower	Upper
84	100		
49	173.4	112.3	168.5#
51	55.0	36.0	54.0#
86	64.2	52.0	78.0



#21
Allyl Chloride
Concen: 0.553 ppbv
RT: 1.961 min Scan# 579
Delta R.T. -0.127 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:	41	Resp:	7143
Ion	Ratio	Lower	Upper
41	100		
76	1.4	23.9	35.9#
39	0.0	57.8	86.6#

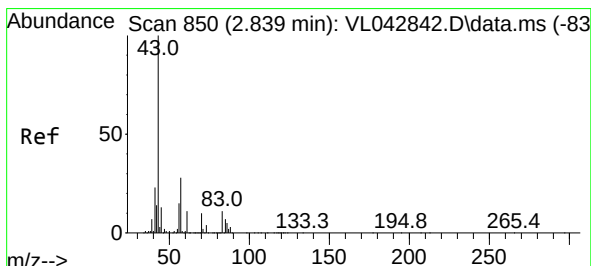
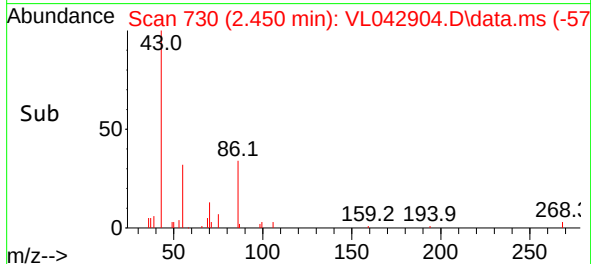
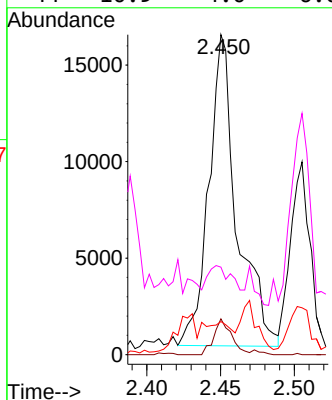
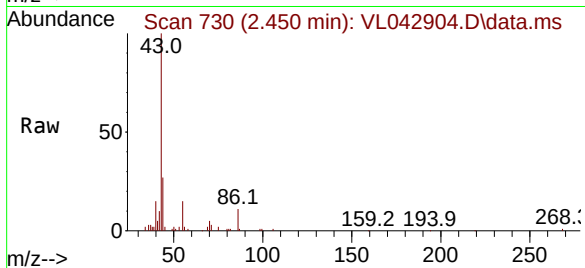




#23
 Vinyl Acetate
 Concen: 0.853 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.004 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

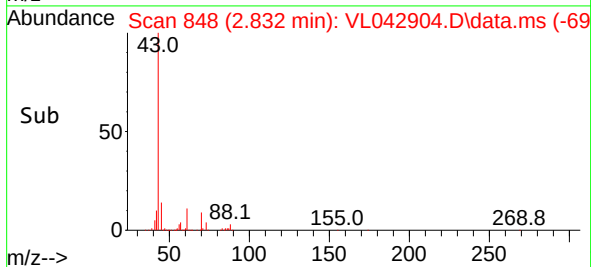
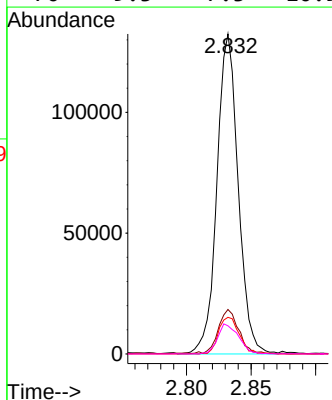
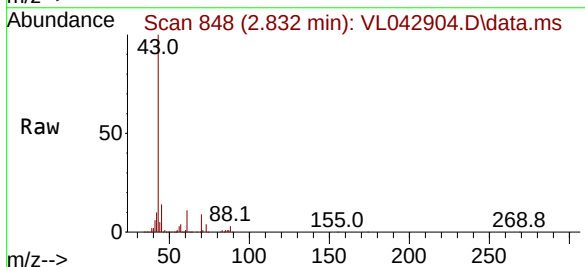
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

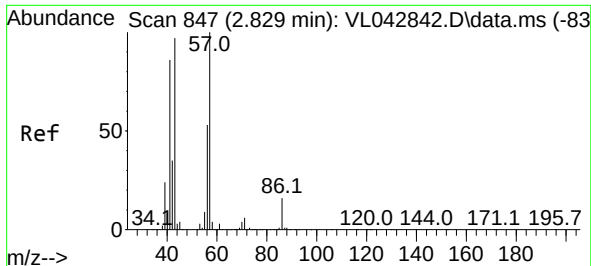
Tgt Ion:	43	Resp:	21424
Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.6	9.8#
42	8.7	7.0	10.6
44	10.9	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 3.427 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.006 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

Tgt Ion:	43	Resp:	151536
Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.1	12.1#
61	11.3	7.4	11.2#
70	9.3	7.3	10.9

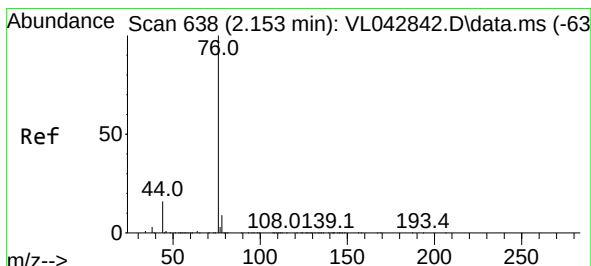
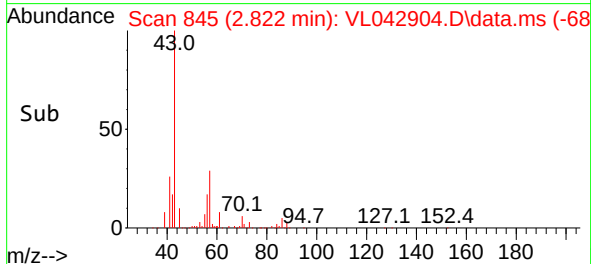
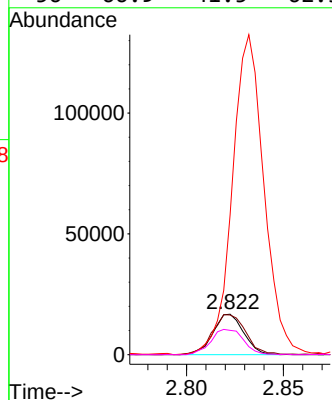
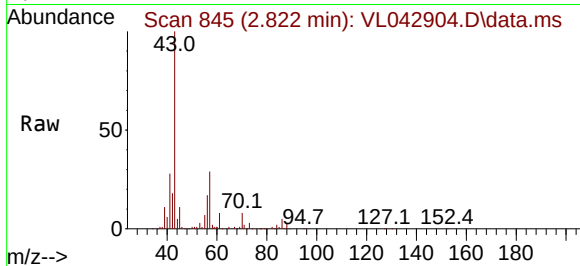




#26
Hexane
Concen: 0.901 ppbv
RT: 2.822 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

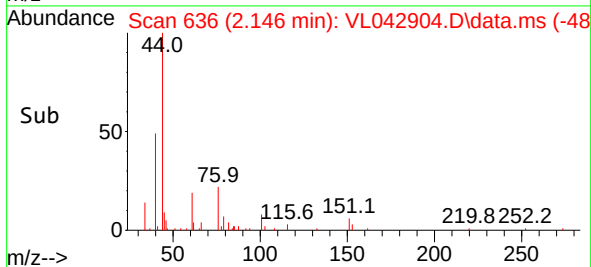
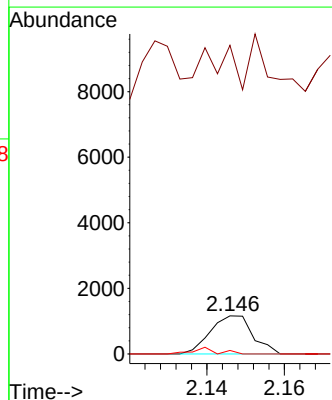
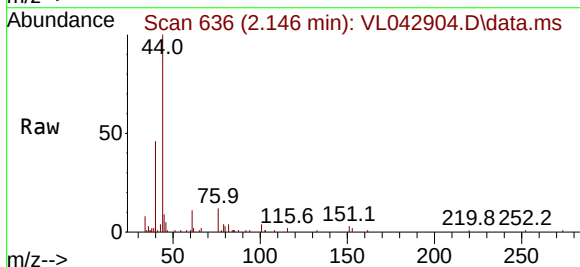
Instrument :
MSVOA_L
ClientSampleId :
IA-2

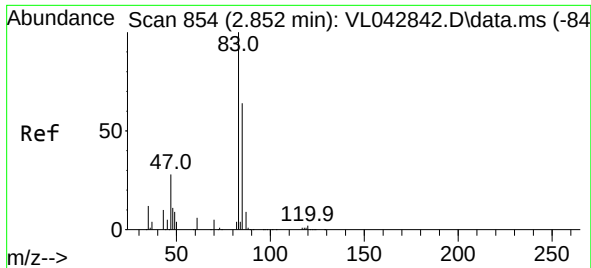
Tgt Ion: 57 Resp: 18399
Ion Ratio Lower Upper
57 100
41 110.0 68.6 103.0#
43 828.5 168.5 252.7#
56 66.9 41.5 62.3#



#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 76 Resp: 887
Ion Ratio Lower Upper
76 100
44 0.0 15.9 23.9#
78 9.4 9.5 14.3#

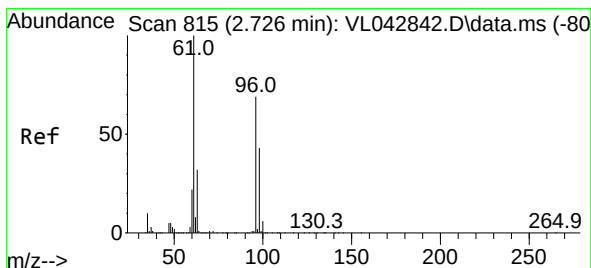
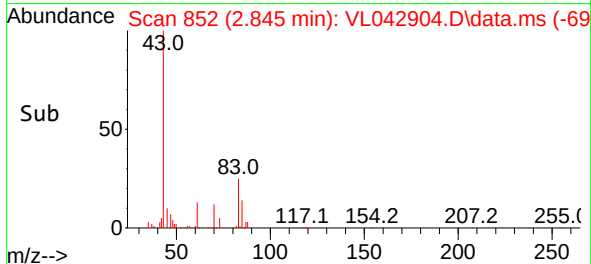
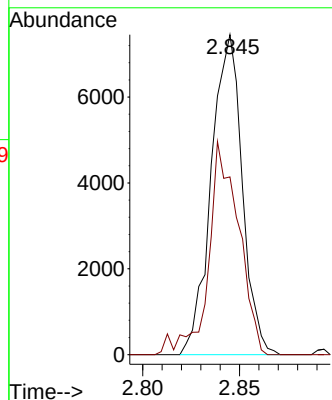
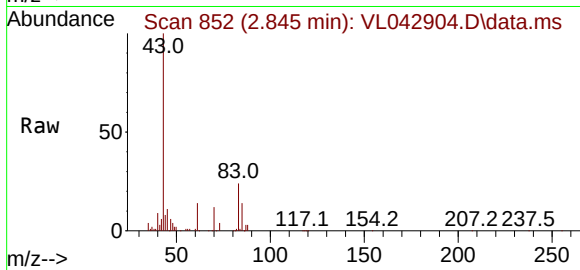




#29
Chloroform
Concen: 0.285 ppbv
RT: 2.845 min Scan# 804
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

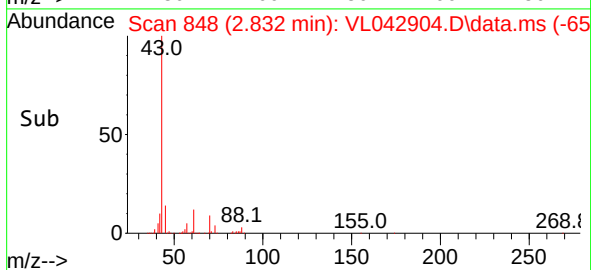
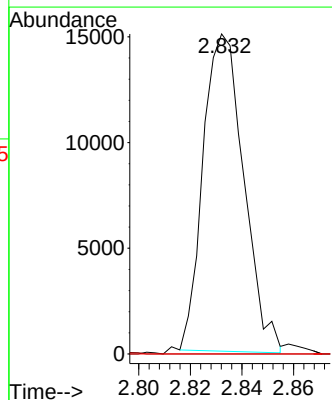
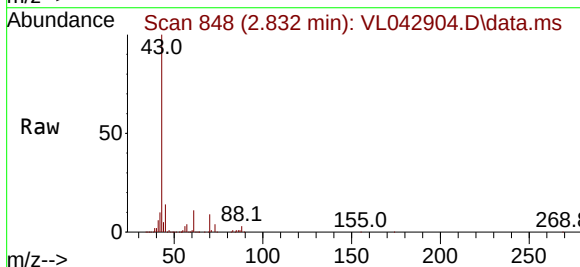
Instrument :
MSVOA_L
ClientSampleId :
IA-2

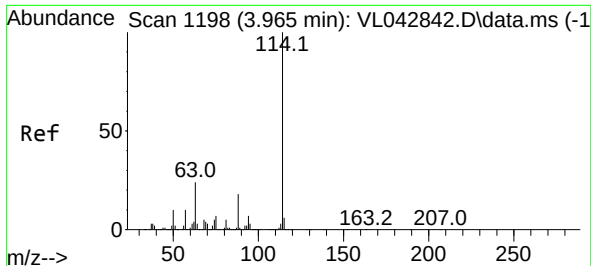
Tgt Ion: 83 Resp: 8304
Ion Ratio Lower Upper
83 100
85 55.5 51.1 76.7



#31
cis-1,2-Dichloroethene
Concen: 0.806 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.119 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 61 Resp: 16434
Ion Ratio Lower Upper
61 100
96 0.0 55.0 82.6#
98 0.0 34.3 51.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.009 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA-2

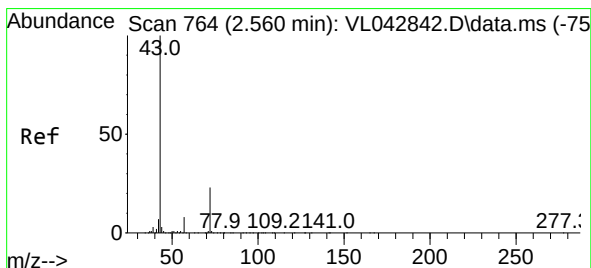
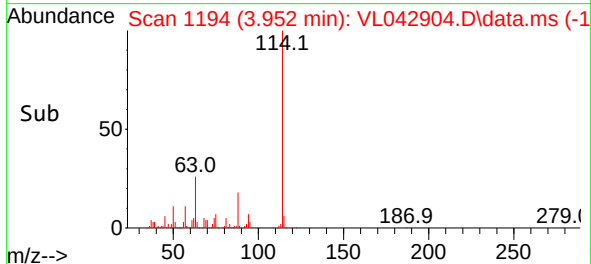
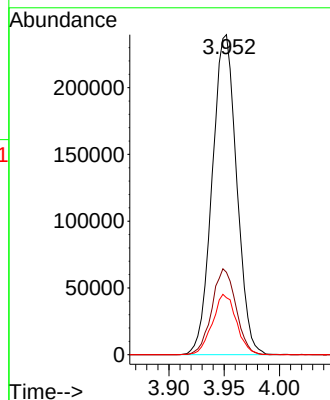
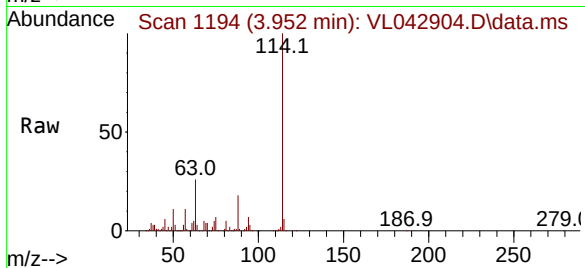
Tgt Ion:114 Resp: 368558

Ion Ratio Lower Upper

114 100

63 26.4 19.7 29.5

88 18.5 14.4 21.6



#34

2-Butanone

Concen: 1.048 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.009 min

Lab File: VL042904.D

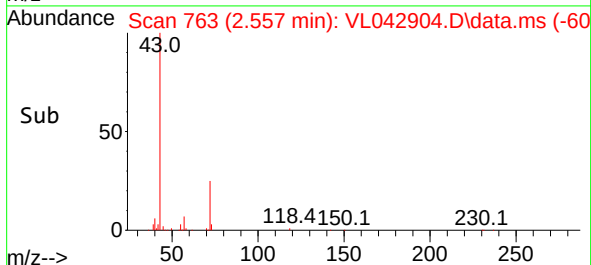
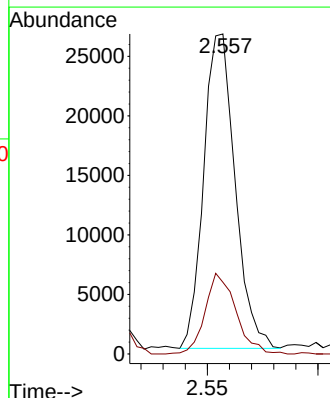
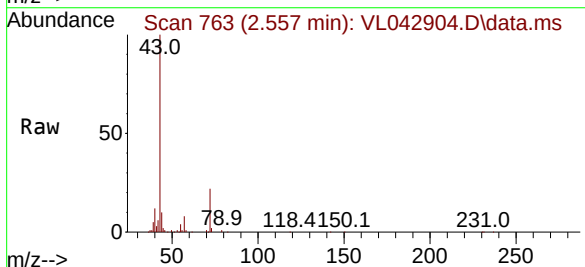
Acq: 08 Sep 2025 15:15

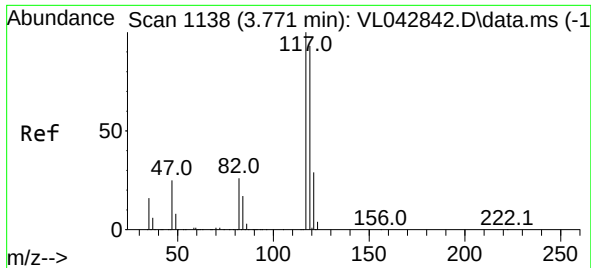
Tgt Ion: 43 Resp: 26086

Ion Ratio Lower Upper

43 100

72 25.2 18.6 28.0

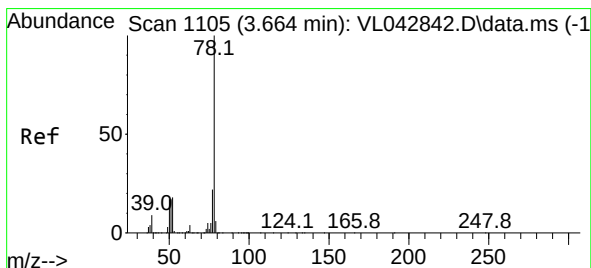
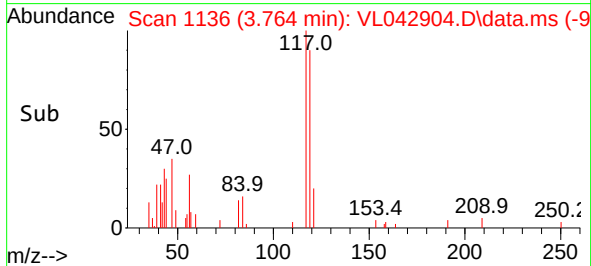
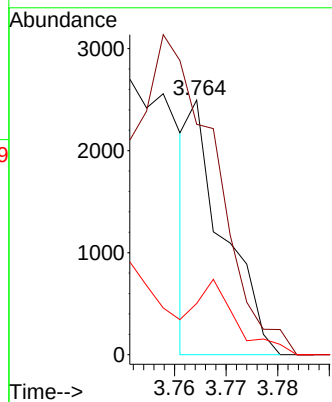
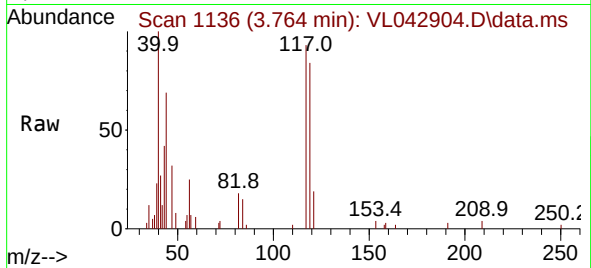




#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 3.764 min Scan# 1138
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

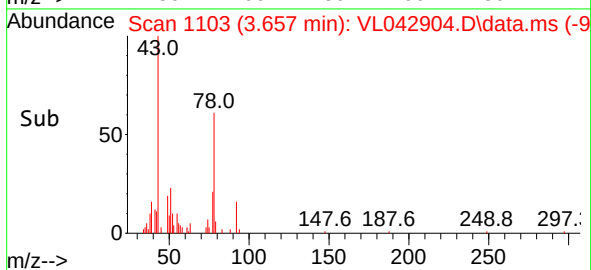
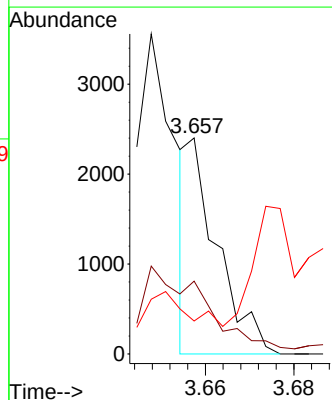
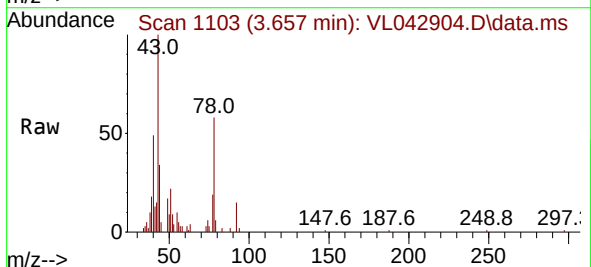
Instrument :
MSVOA_L
ClientSampleId :
IA-2

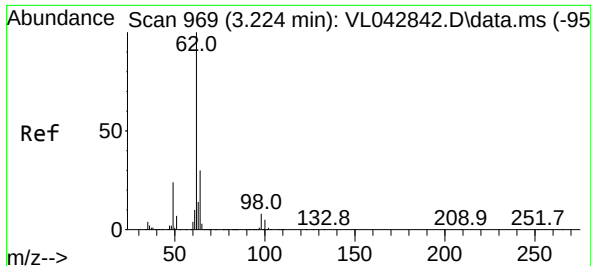
Tgt Ion:117 Resp: 1143
Ion Ratio Lower Upper
117 100
119 80.6 74.7 112.1
121 16.1 23.2 34.8#



#36
Benzene
Concen: 0.032 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.013 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 78 Resp: 1116
Ion Ratio Lower Upper
78 100
77 30.6 17.7 26.5#
50 0.0 13.9 20.9#





#37

1,2-Dichloroethane

Concen: 0.039 ppbv

RT: 3.214 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

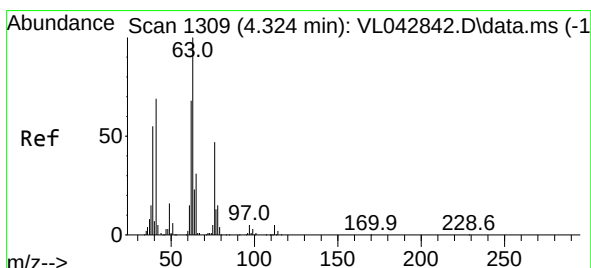
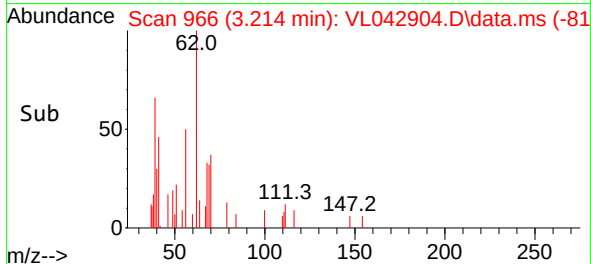
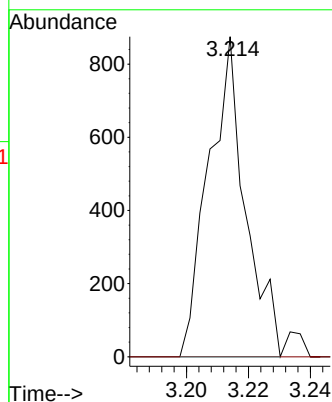
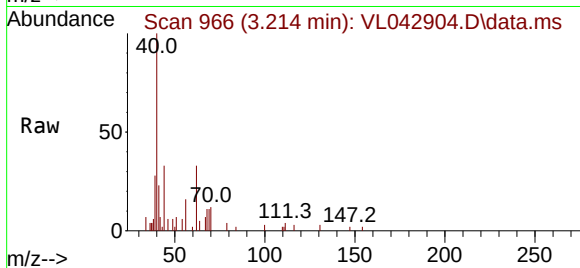
IA-2

Tgt Ion: 62 Resp: 719

Ion Ratio Lower Upper

62 100

98 0.0 5.9 8.9#



#39

1,2-Dichloropropane

Concen: 7.558 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

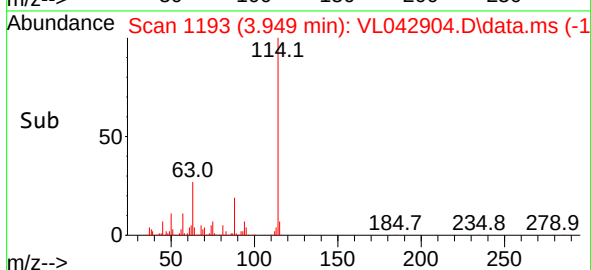
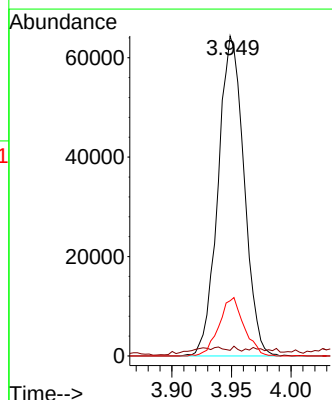
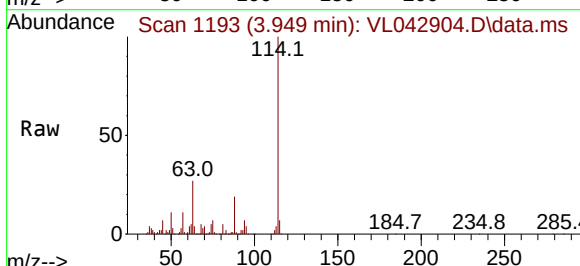
Tgt Ion: 63 Resp: 97418

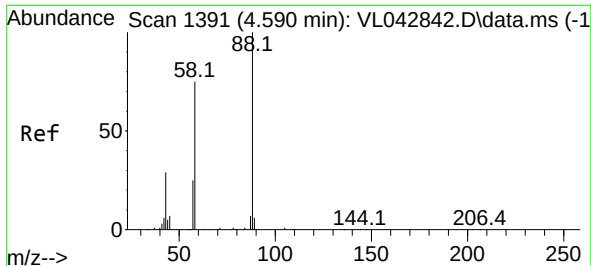
Ion Ratio Lower Upper

63 100

41 0.7 55.0 82.4#

62 17.3 54.4 81.6#

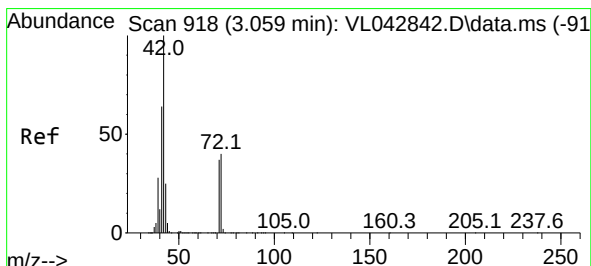
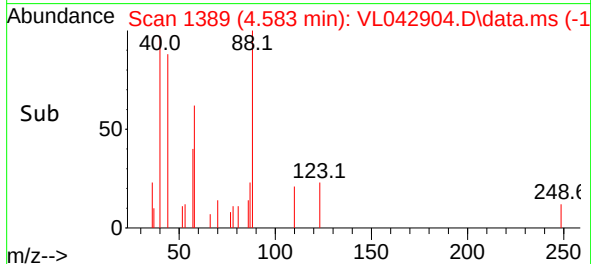
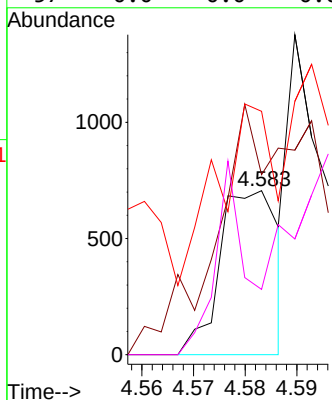
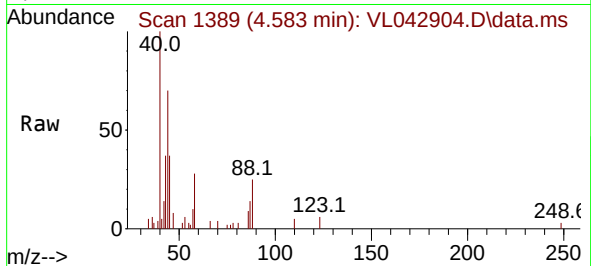




#40
1,4-Dioxane
Concen: 0.091 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.022 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

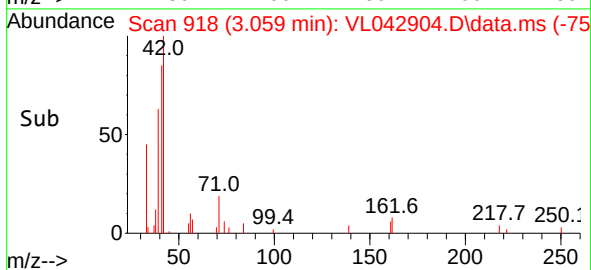
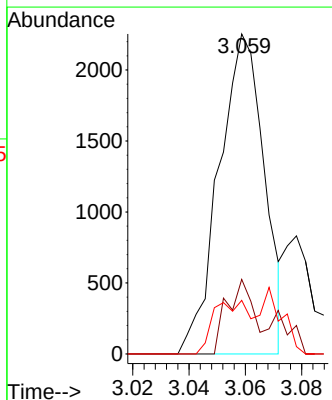
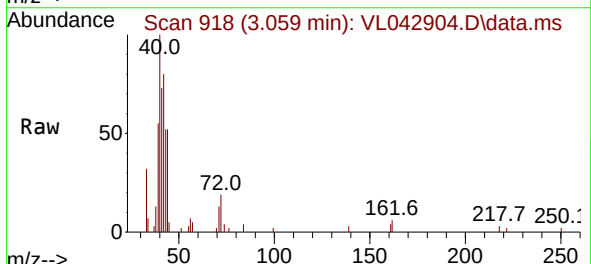
Instrument :
MSVOA_L
ClientSampleId :
IA-2

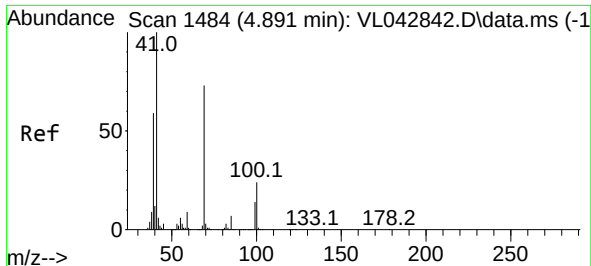
Tgt Ion: 88 Resp: 555
Ion Ratio Lower Upper
88 100
58 517.1 53.8 80.6#
43 53.0 22.8 34.2#
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.181 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 42 Resp: 2514
Ion Ratio Lower Upper
42 100
72 19.8 32.6 48.8#
71 0.0 30.0 45.0#





#43

Methyl Methacrylate

Concen: 0.072 ppbv

RT: 4.874 min Scan# 14

Delta R.T. 0.016 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA-2

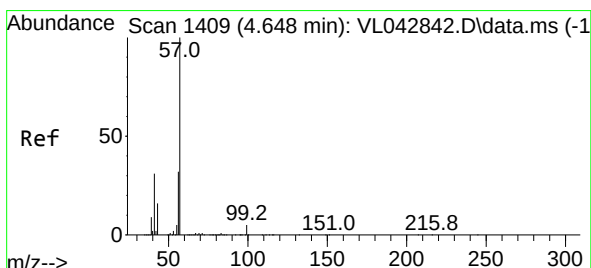
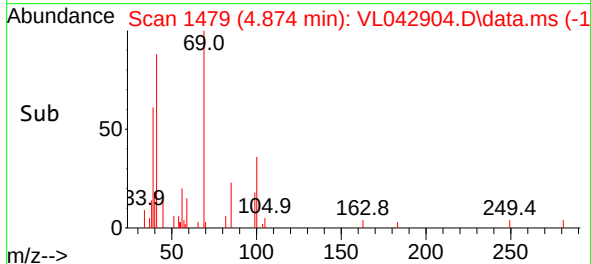
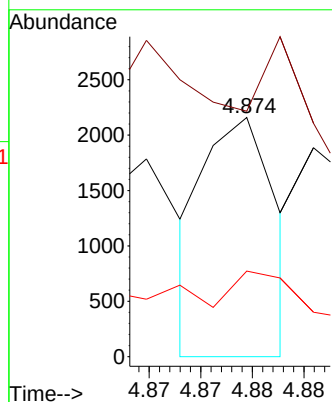
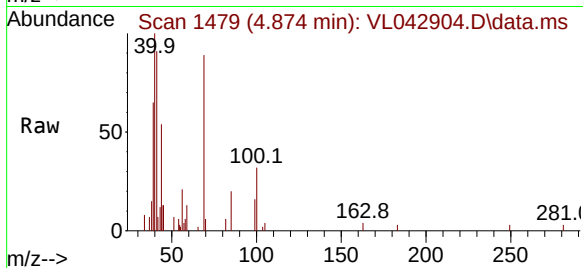
Tgt Ion: 69 Resp: 1043

Ion Ratio Lower Upper

69 100

41 0.0 114.6 172.0#

100 123.6 30.2 45.4#



#44

2,2,4-Trimethylpentane

Concen: 0.056 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.003 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

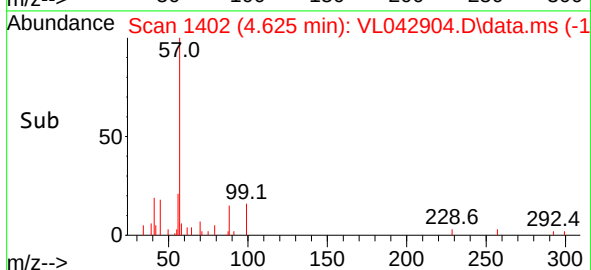
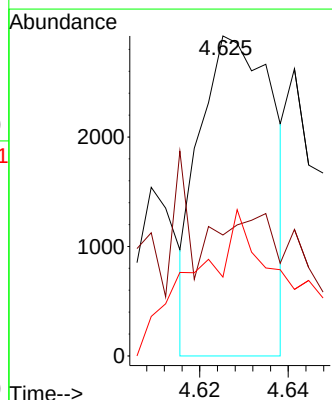
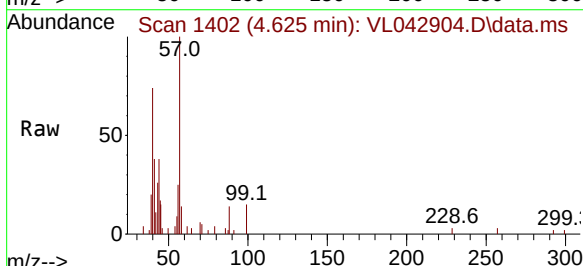
Tgt Ion: 57 Resp: 3374

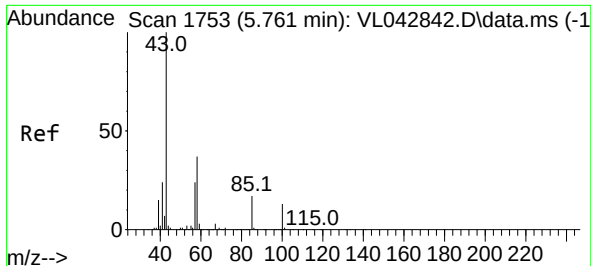
Ion Ratio Lower Upper

57 100

41 0.0 24.8 37.2#

56 87.1 25.5 38.3#

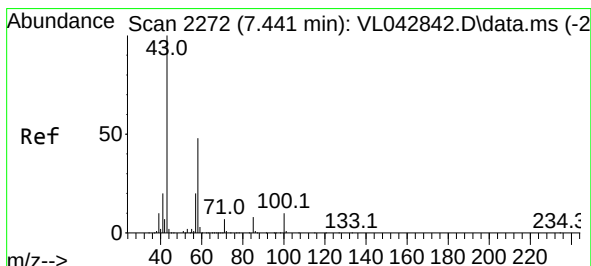
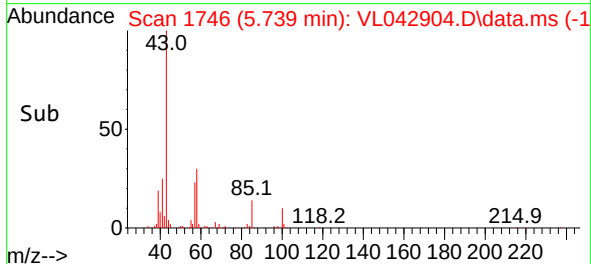
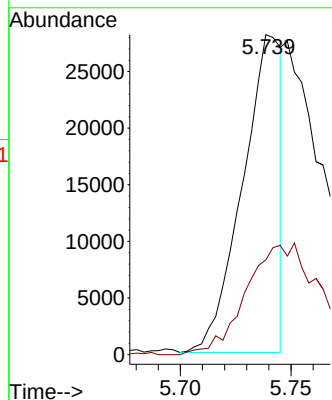
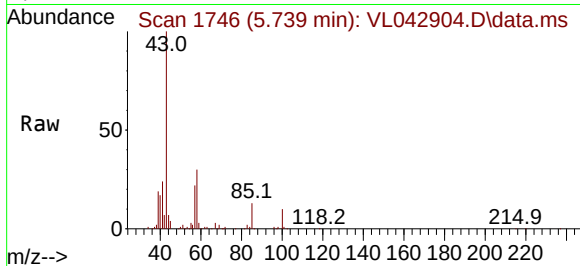




#50
4-Methyl-2-Pentanone
Concen: 1.017 ppbv
RT: 5.739 min Scan# 1746
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

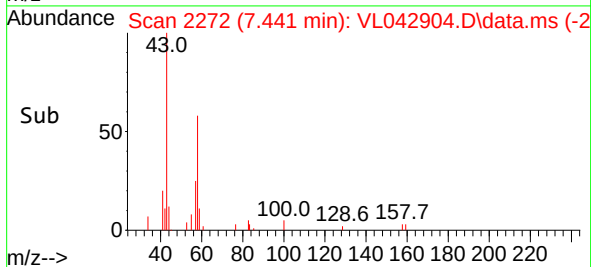
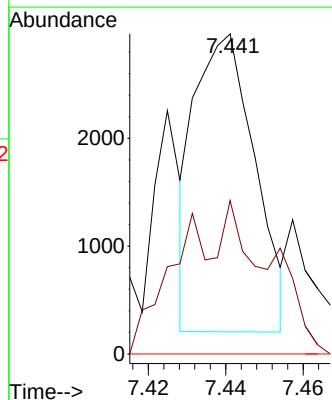
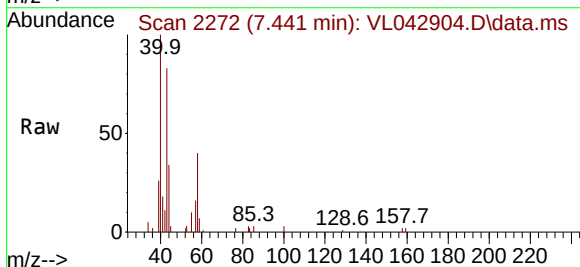
Instrument :
MSVOA_L
ClientSampleId :
IA-2

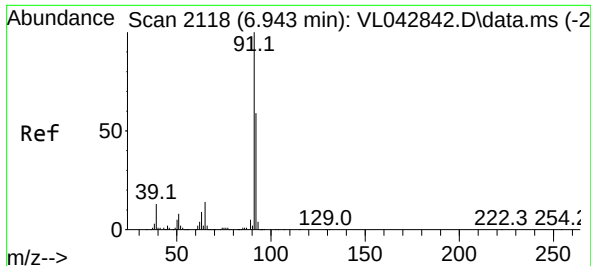
Tgt Ion: 43 Resp: 34197
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#



#51
2-Hexanone
Concen: 0.113 ppbv
RT: 7.441 min Scan# 2272
Delta R.T. 0.022 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 2979
Ion Ratio Lower Upper
43 100
58 82.6 41.0 61.6#
98 0.0 0.1 0.1#

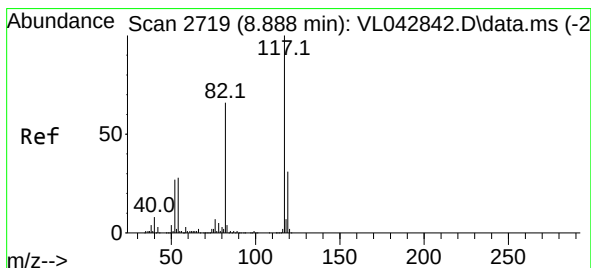
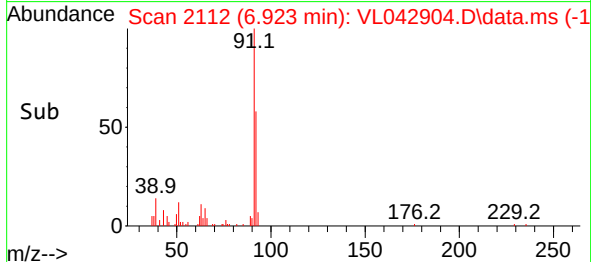
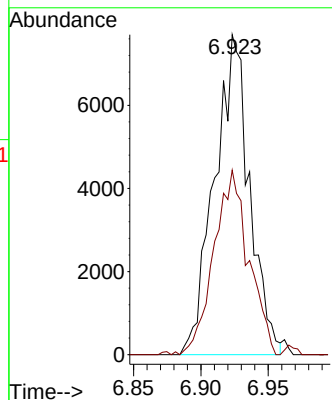
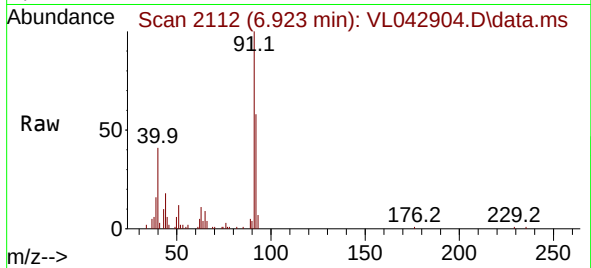




#53
Toluene
Concen: 0.331 ppbv
RT: 6.923 min Scan# 2118
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

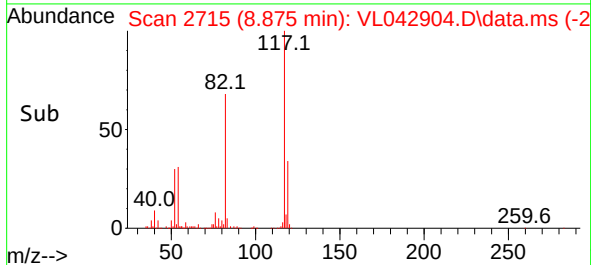
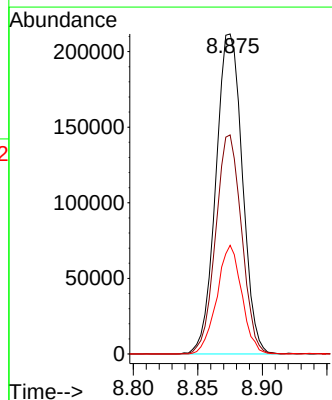
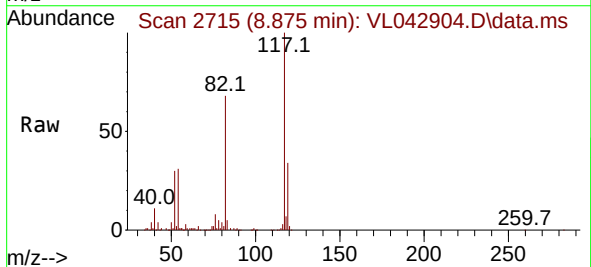
Instrument :
MSVOA_L
ClientSampleId :
IA-2

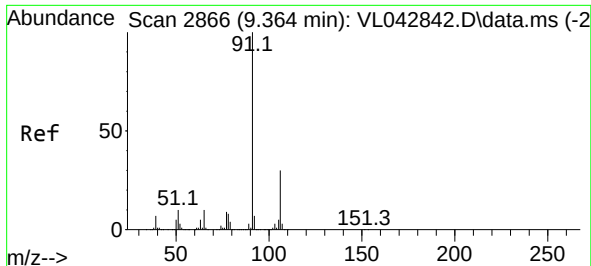
Tgt Ion: 91 Resp: 13909
Ion Ratio Lower Upper
91 100
92 58.3 47.8 71.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 117 Resp: 302216
Ion Ratio Lower Upper
117 100
82 67.0 54.6 81.8
119 32.0 25.9 38.9

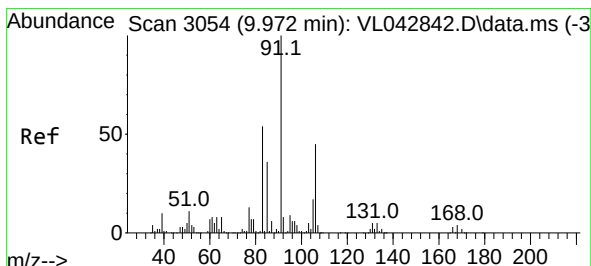
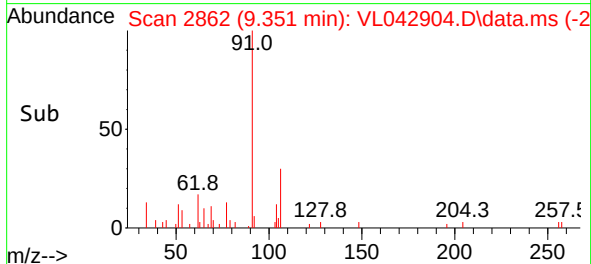
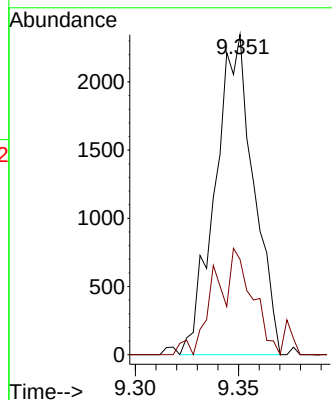
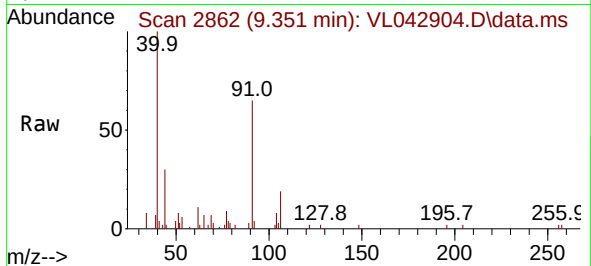




#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 9.351 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

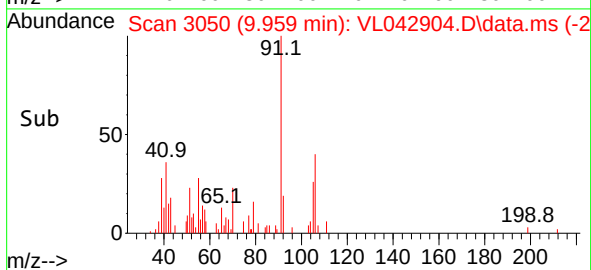
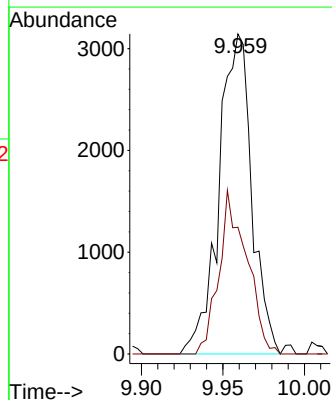
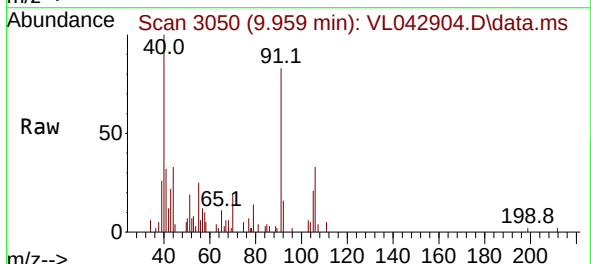
Instrument :
MSVOA_L
ClientSampleId :
IA-2

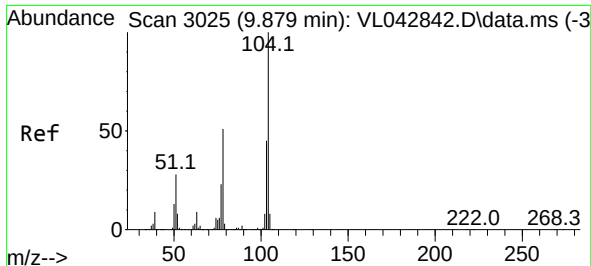
Tgt Ion: 91 Resp: 3051
Ion Ratio Lower Upper
91 100
106 29.8 23.9 35.9



#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 4398
Ion Ratio Lower Upper
91 100
106 43.3 21.8 65.4

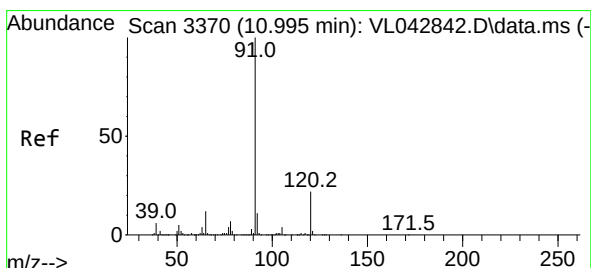
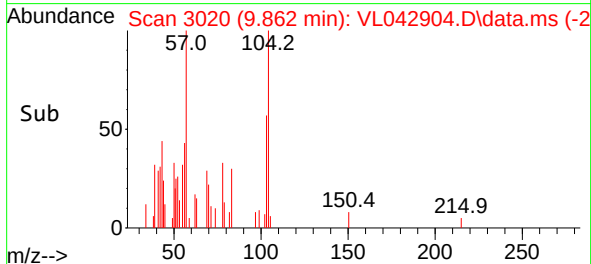
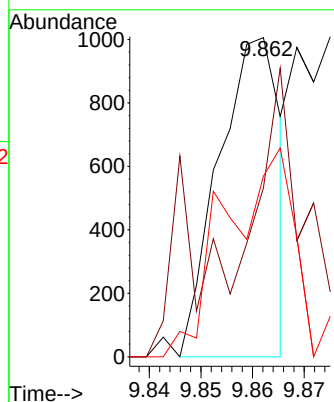
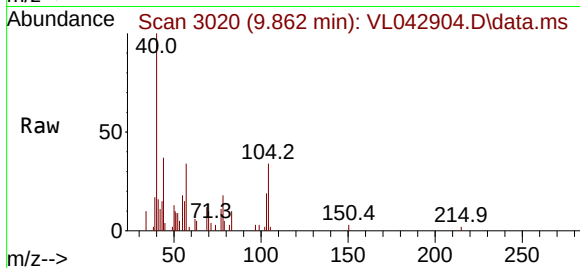




#61
Styrene
Concen: 0.042 ppbv
RT: 9.862 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

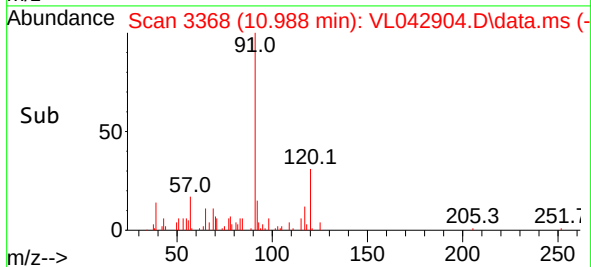
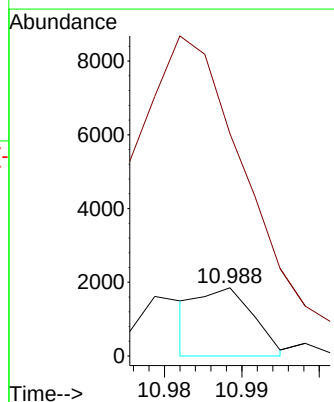
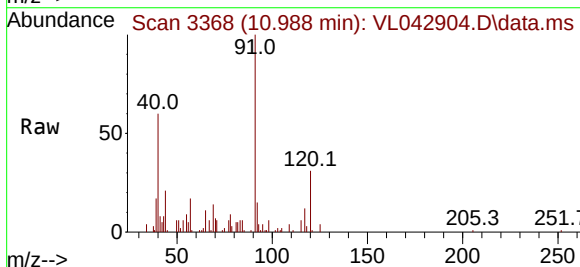
Instrument :
MSVOA_L
ClientSampleId :
IA-2

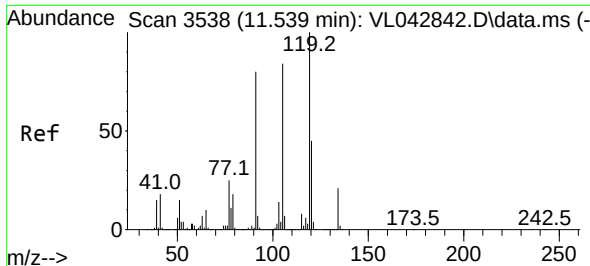
Tgt Ion:104 Resp: 831
Ion Ratio Lower Upper
104 100
78 114.0 40.6 61.0#
103 81.3 37.7 56.5#



#64
n-propylbenzene
Concen: 0.058 ppbv
RT: 10.988 min Scan# 3368
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:120 Resp: 910
Ion Ratio Lower Upper
120 100
91 0.0 375.8 563.6#

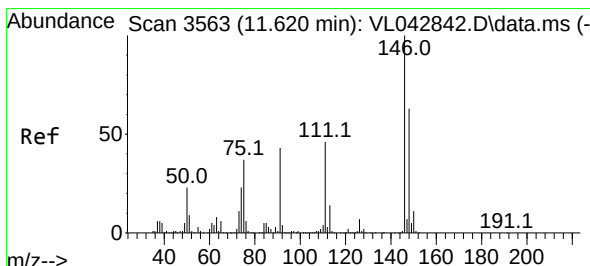
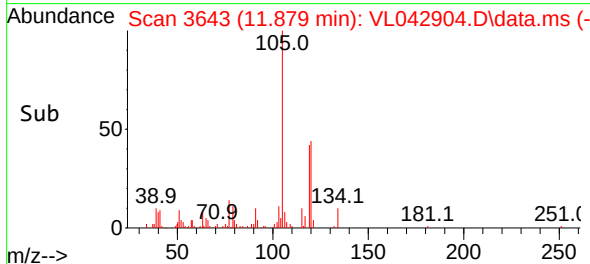
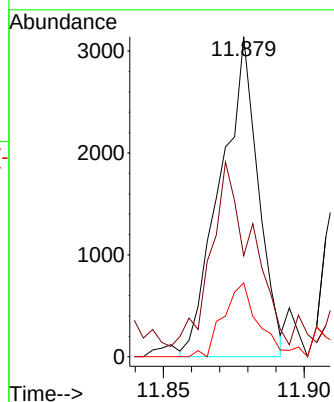
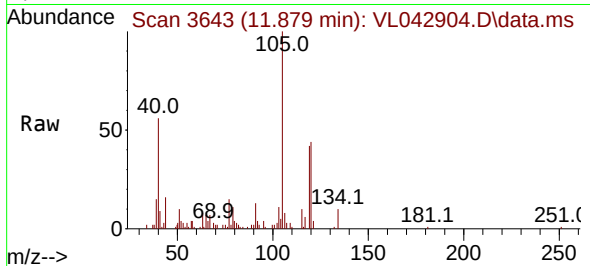




#65
 tert-Butylbenzene
 Concen: 0.054 ppbv
 RT: 11.879 min Scan# 3643
 Delta R.T. 0.356 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

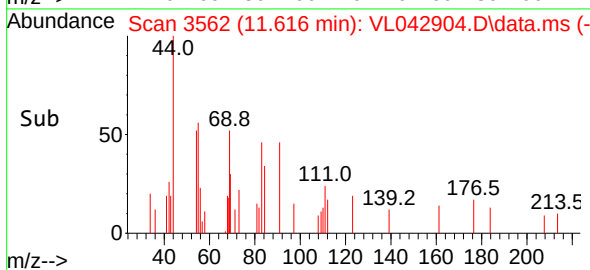
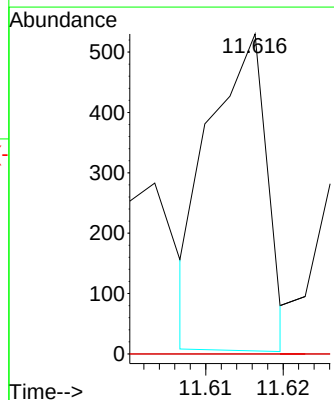
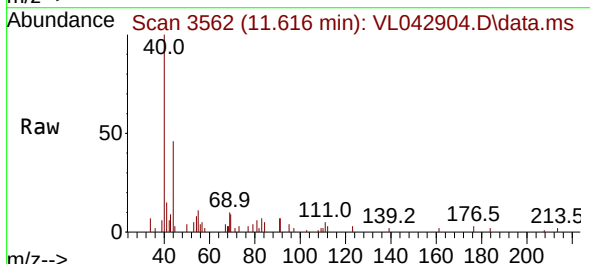
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

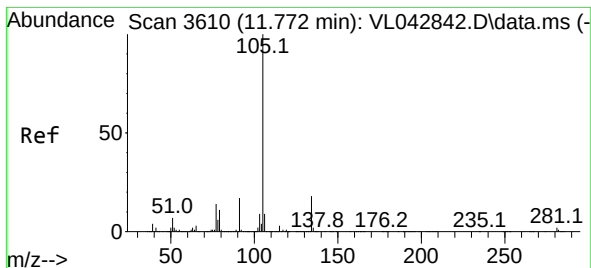
Tgt Ion:	119	Resp:	2940
Ion	Ratio	Lower	Upper
119	100		
91	71.4	63.9	95.9
134	21.1	17.0	25.4



#66
 Benzyl Chloride
 Concen: 0.039 ppbv
 RT: 11.616 min Scan# 3562
 Delta R.T. 0.009 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

Tgt Ion:	91	Resp:	271
Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.2	21.4#
128	0.0	5.0	7.6#





#67

sec-Butylbenzene

Concen: 0.046 ppbv

RT: 12.218 min Scan# 3177

Delta R.T. 0.459 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

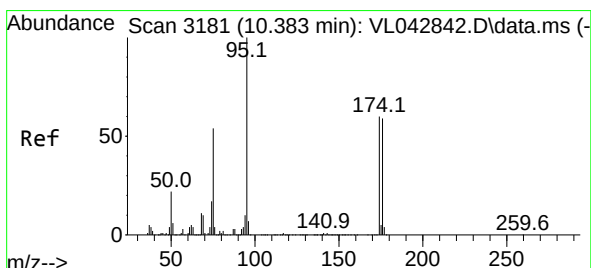
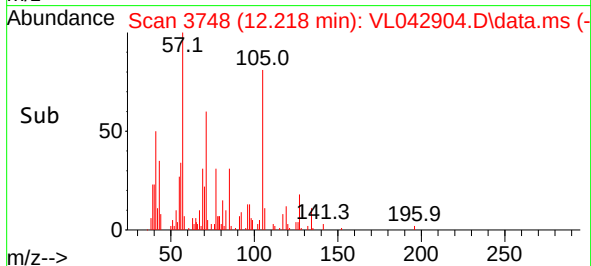
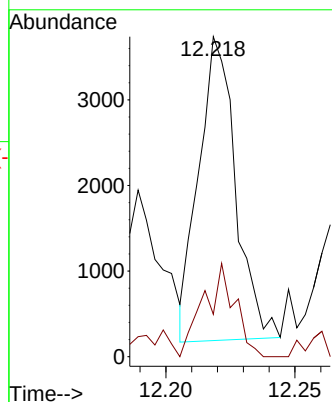
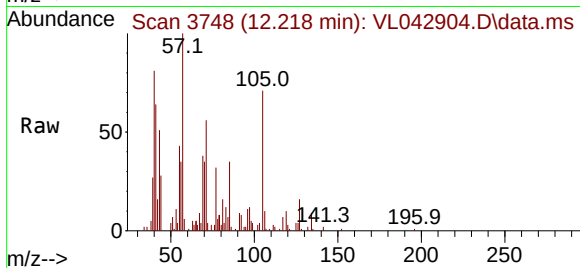
IA-2

Tgt Ion:105 Resp: 3516

Ion Ratio Lower Upper

105 100

134 19.7 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.432 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

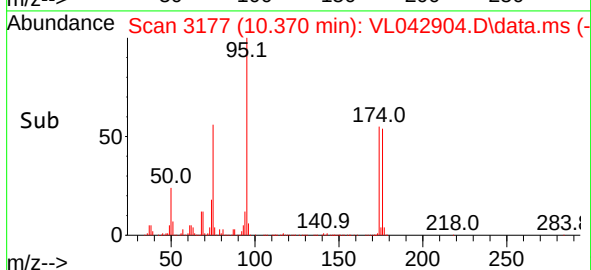
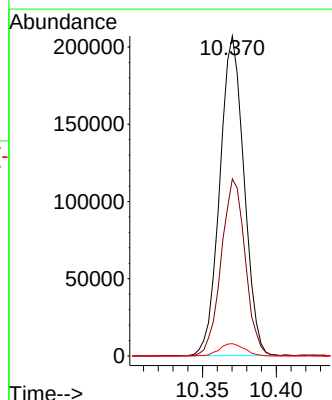
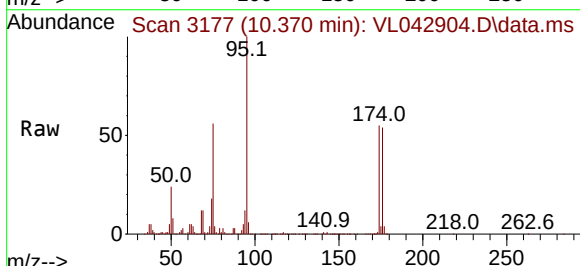
Tgt Ion: 95 Resp: 236452

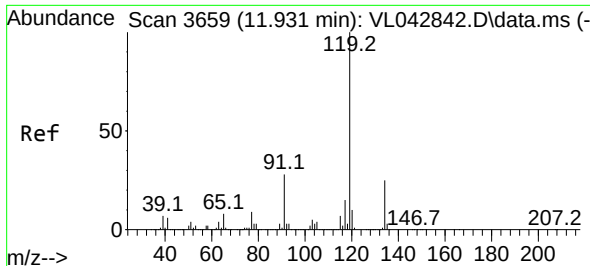
Ion Ratio Lower Upper

95 100

174 55.3 48.4 72.6

175 4.0 3.8 5.8

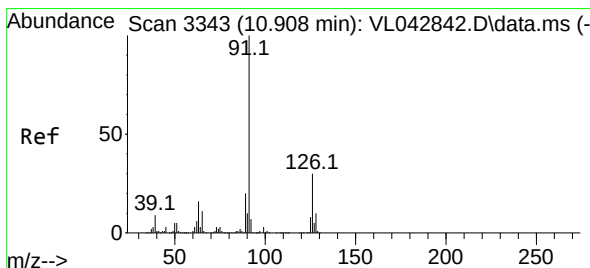
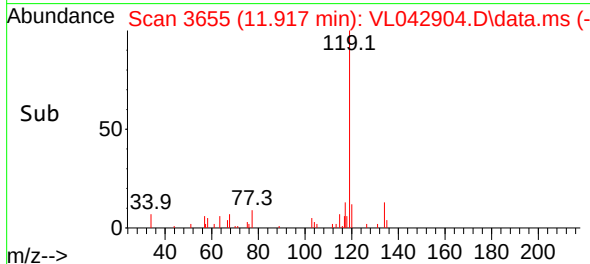
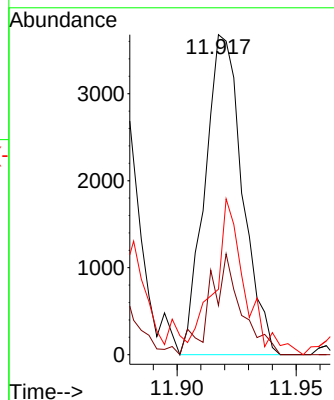
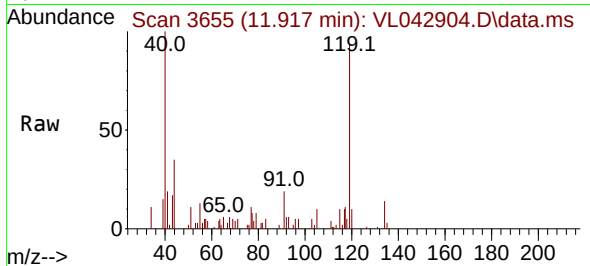




#69
 p-Isopropyltoluene
 Concen: 0.062 ppbv
 RT: 11.917 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

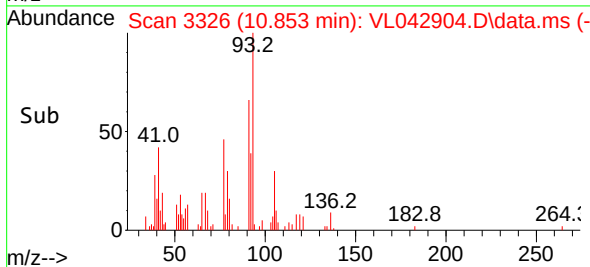
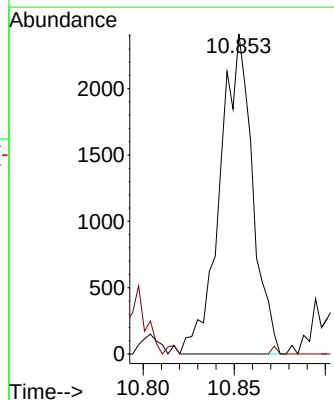
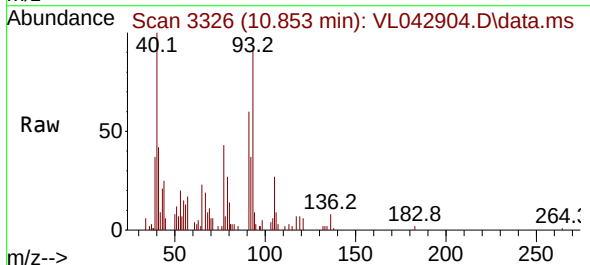
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

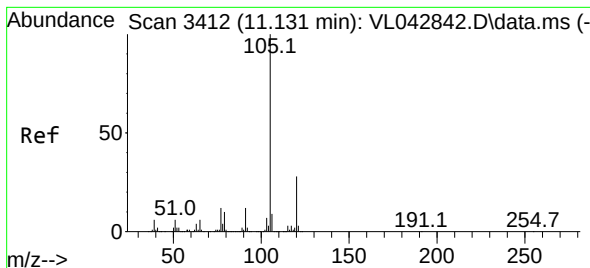
Tgt Ion: 119 Resp: 4040
 Ion Ratio Lower Upper
 119 100
 134 26.4 20.6 30.8
 91 43.3 22.6 34.0#



#71
 2-Chlorotoluene
 Concen: 0.063 ppbv
 RT: 10.853 min Scan# 3326
 Delta R.T. -0.039 min
 Lab File: VL042904.D
 Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 2992
 Ion Ratio Lower Upper
 91 100
 126 15.2 12.0 47.8

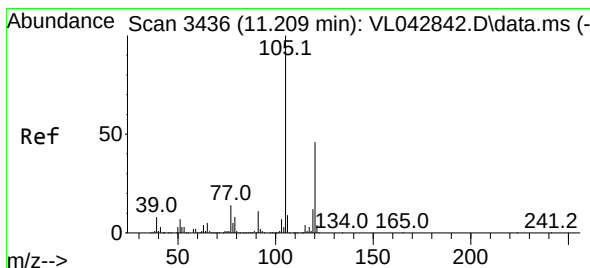
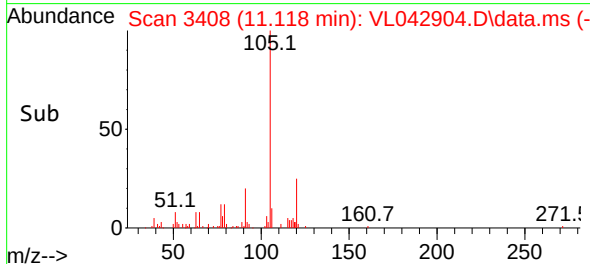
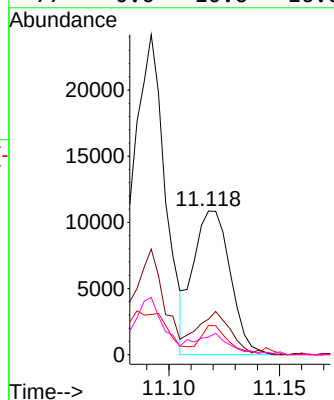
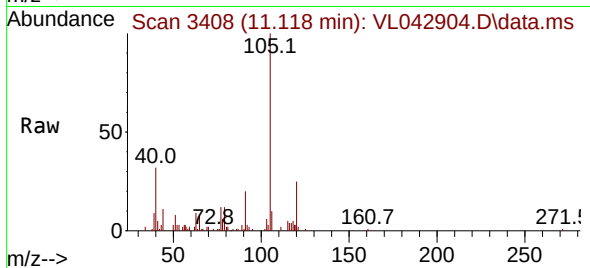




#72
4-Ethyltoluene
Concen: 0.249 ppbv
RT: 11.118 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

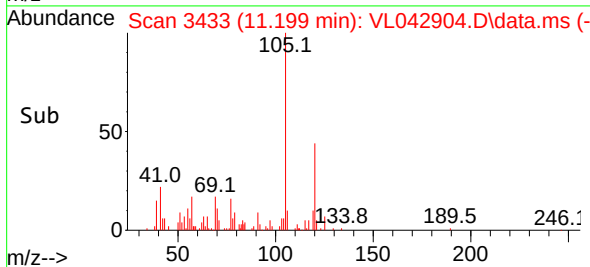
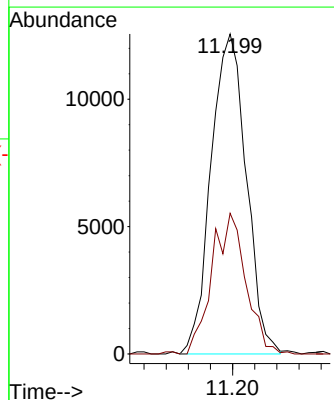
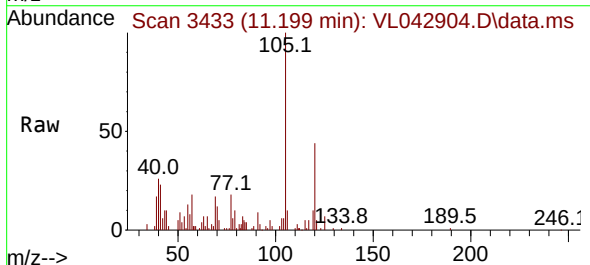
Instrument :
MSVOA_L
ClientSampleId :
IA-2

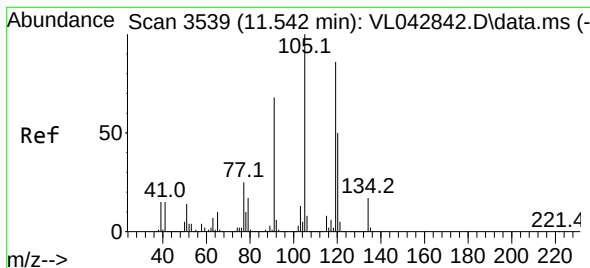
Tgt Ion:105 Resp: 12697
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 14.1 9.8 14.6
77 0.0 10.6 16.0#



#73
1,3,5-Trimethylbenzene
Concen: 0.320 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 13893
Ion Ratio Lower Upper
105 100
120 44.0 36.6 54.8





#74

1,2,4-Trimethylbenzene

Concen: 1.133 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion:105 Resp: 53900

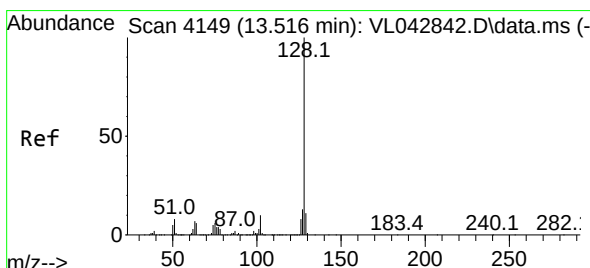
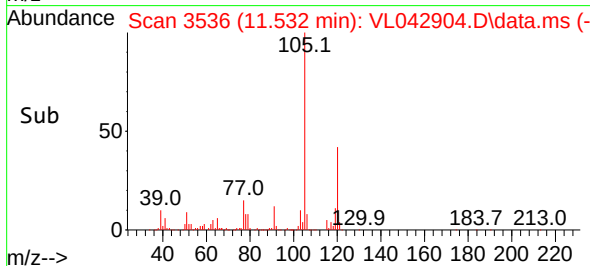
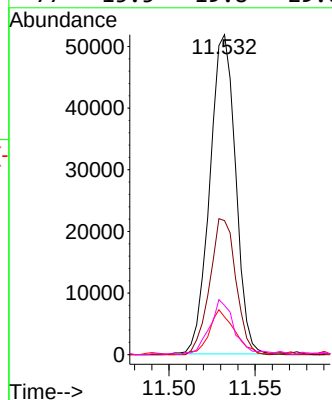
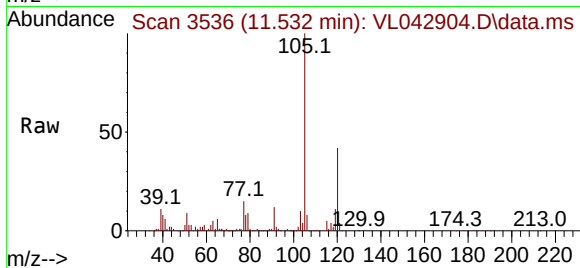
Ion Ratio Lower Upper

105 100

120 42.0 39.8 59.6

91 11.6 54.2 81.4#

77 15.5 19.8 29.6#



#79

Naphthalene

Concen: 0.040 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.009 min

Lab File: VL042904.D

Acq: 08 Sep 2025 15:15

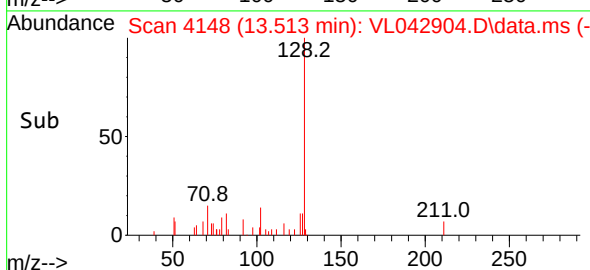
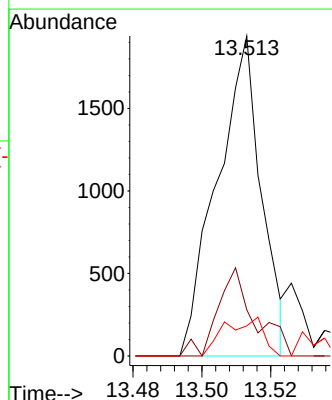
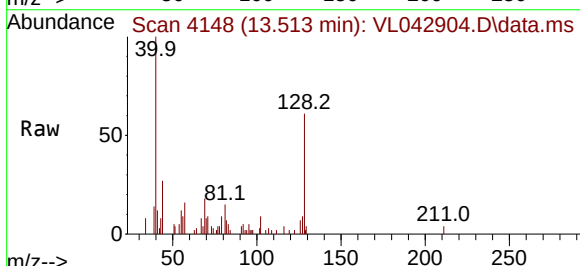
Tgt Ion:128 Resp: 1724

Ion Ratio Lower Upper

128 100

127 14.4 10.6 16.0

129 9.4 8.9 13.3



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 :
 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-Trichlorotri fluo...	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 :
ALS Vial : 1 Sample Multiplier: 1

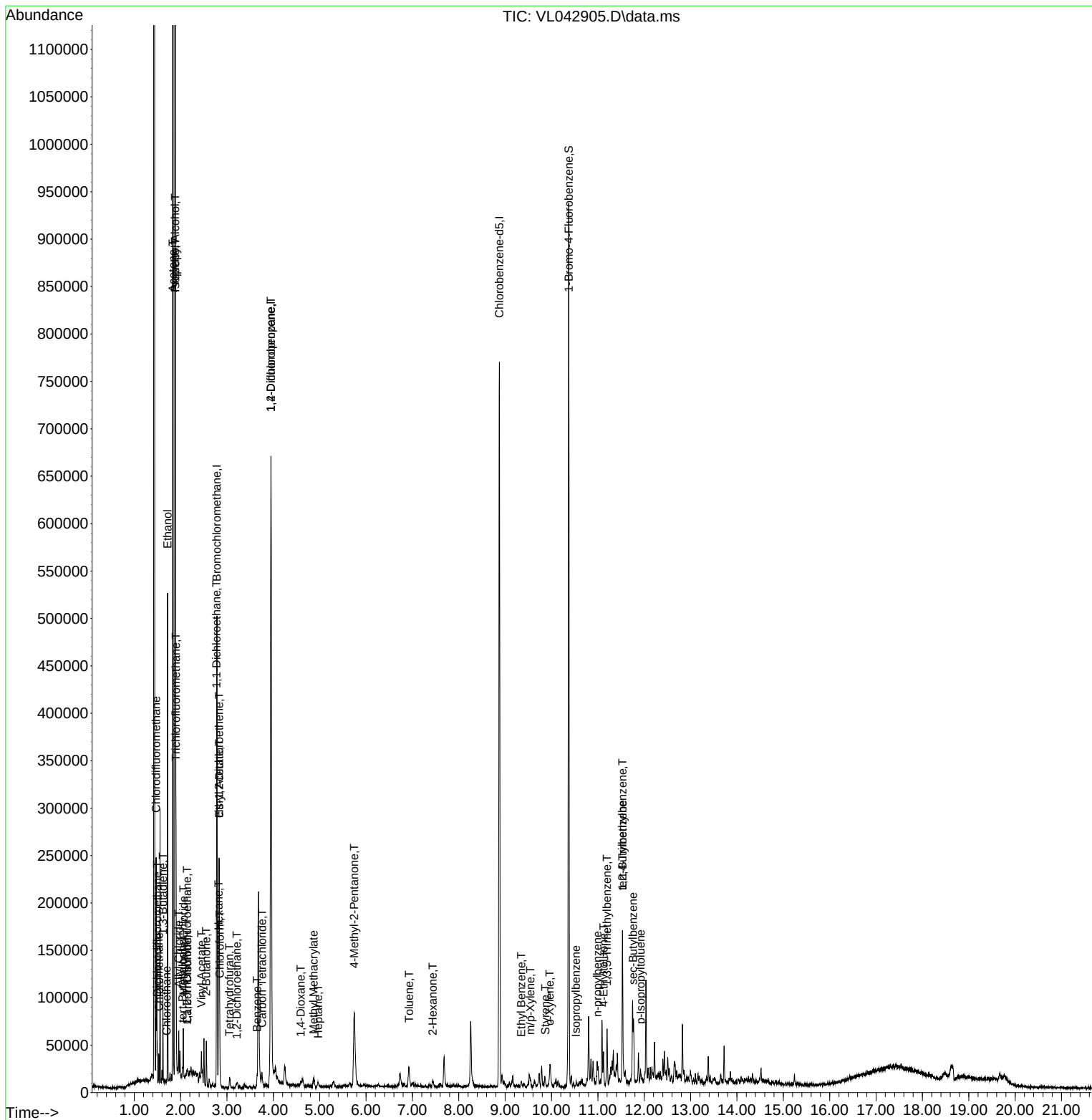
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

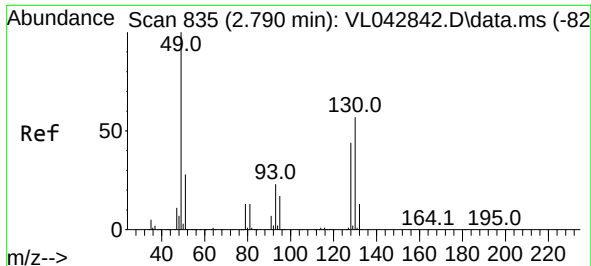
Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

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

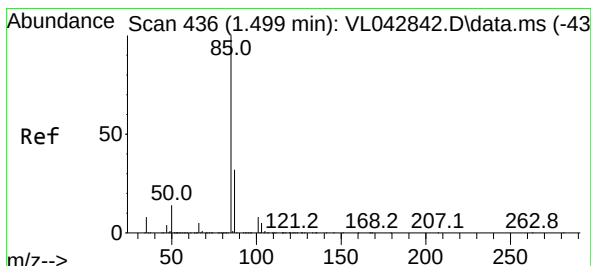
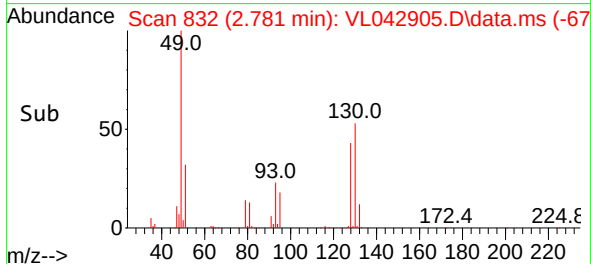
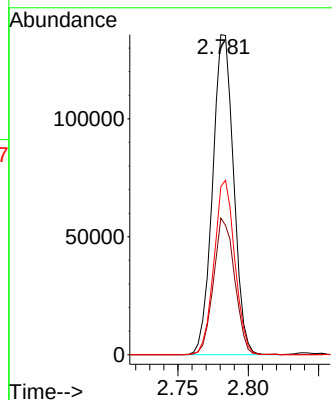
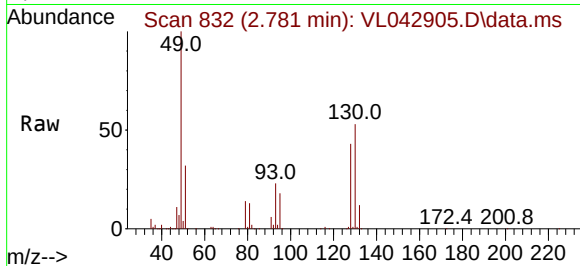




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 832
 Delta R.T. 0.004 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

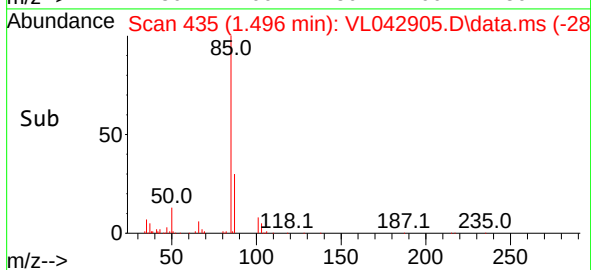
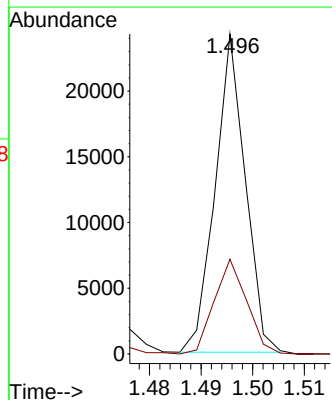
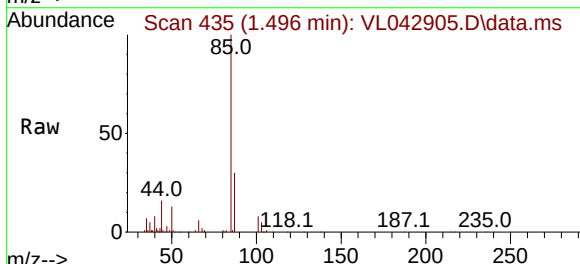
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

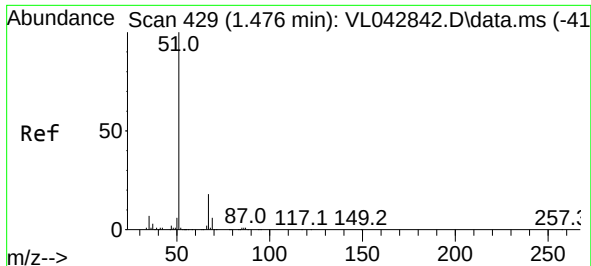
Tgt Ion: 49 Resp: 141221
 Ion Ratio Lower Upper
 49 100
 128 42.8 23.7 71.1
 130 53.7 30.6 91.6



#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

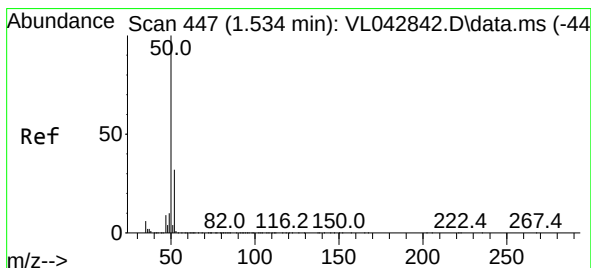
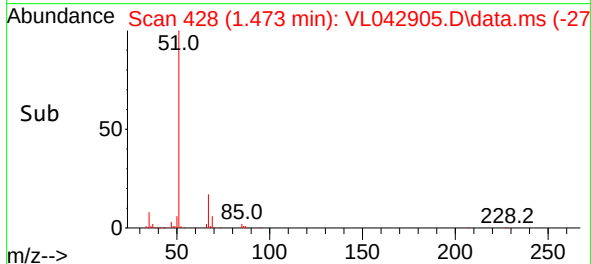
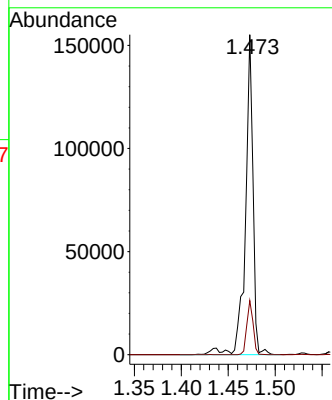
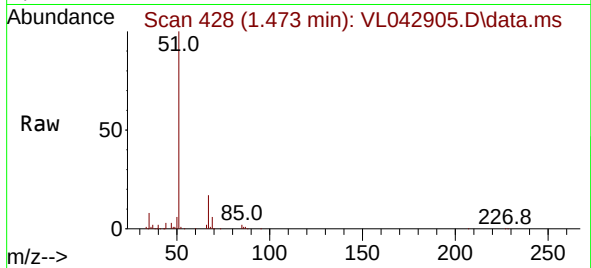




#3
Chlorodifluoromethane
Concen: 3.788 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

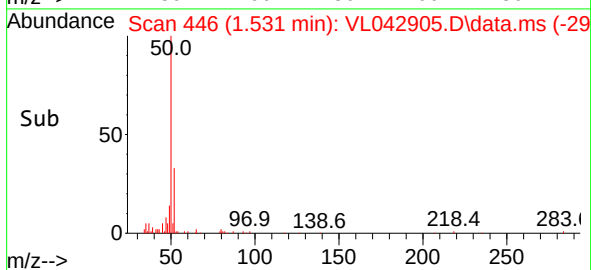
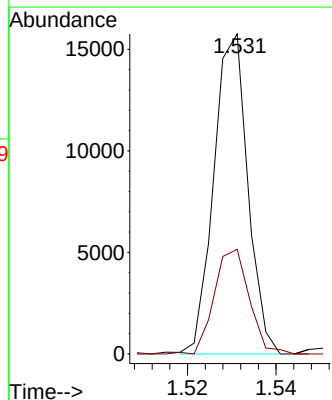
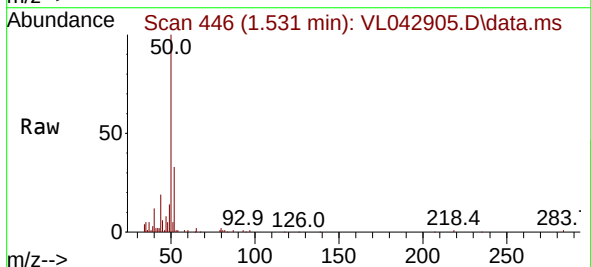
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

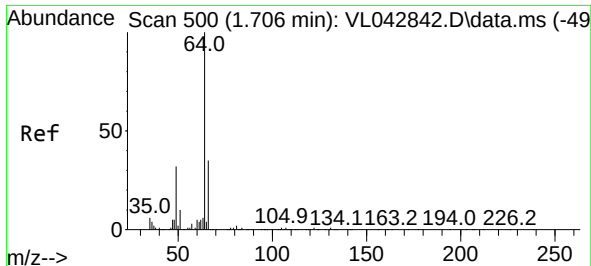
Tgt Ion: 51 Resp: 86667
Ion Ratio Lower Upper
51 100
67 14.0 14.9 22.3#



#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

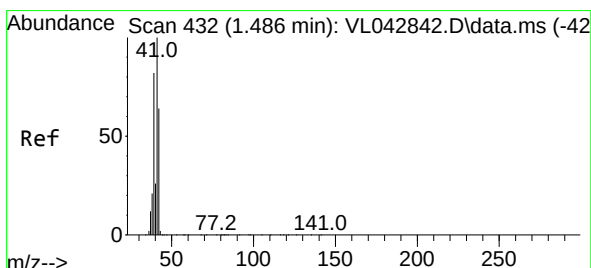
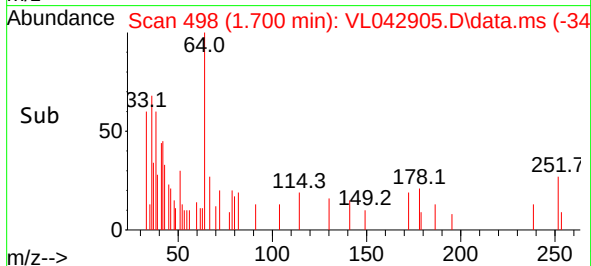
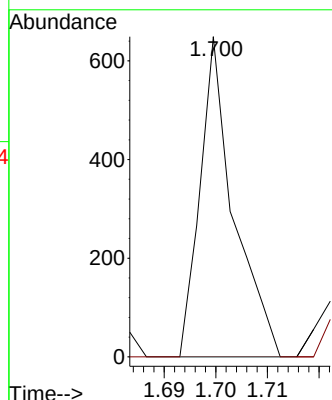
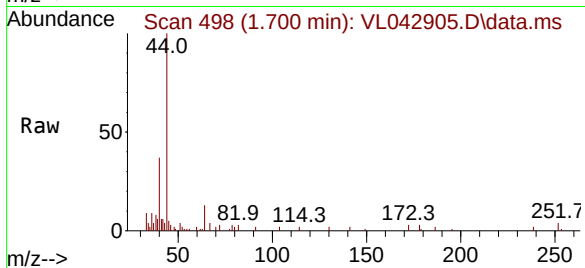




#7
Chloroethane
Concen: 0.092 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

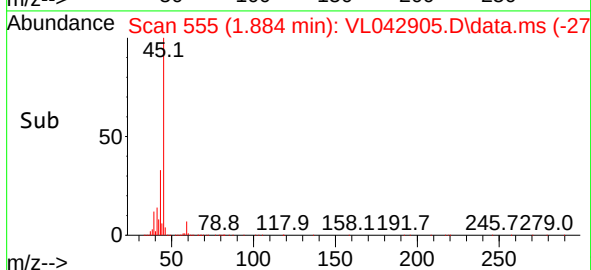
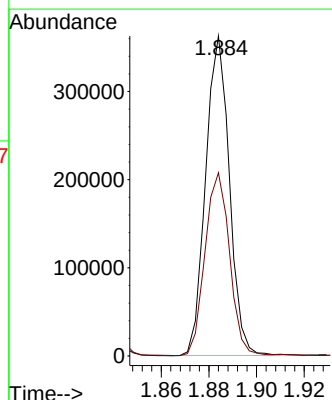
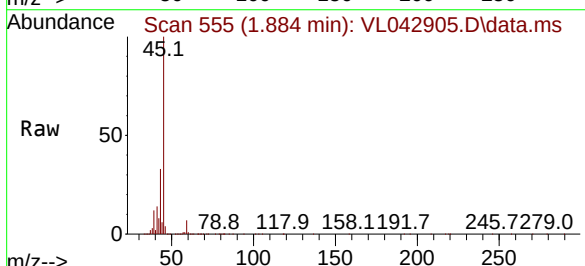
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

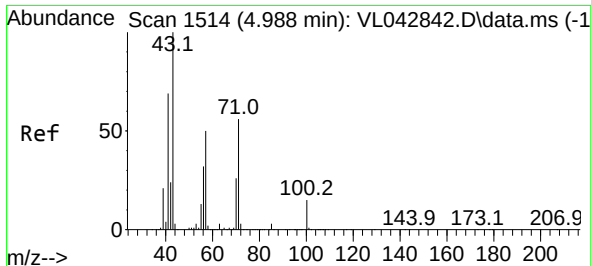
Tgt Ion: 64 Resp: 294
Ion Ratio Lower Upper
64 100
66 27.1 28.6 42.8#



#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

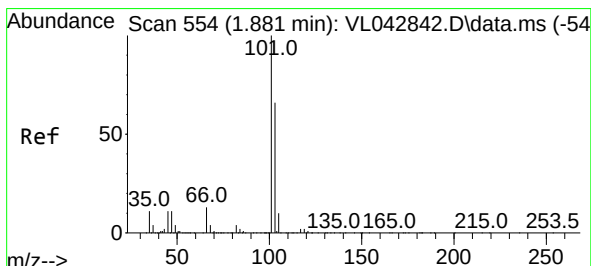
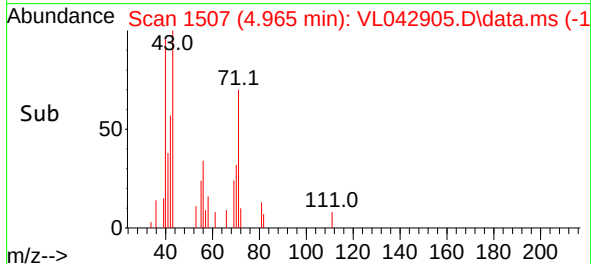
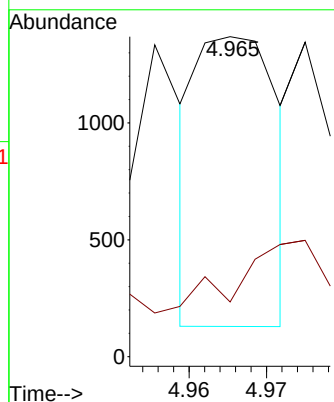
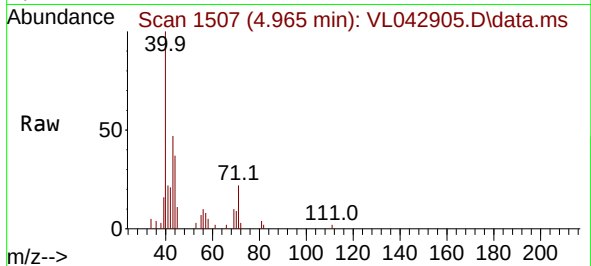




#10
Heptane
Concen: 0.034 ppbv
RT: 4.965 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

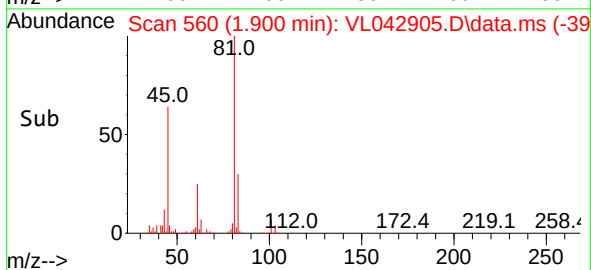
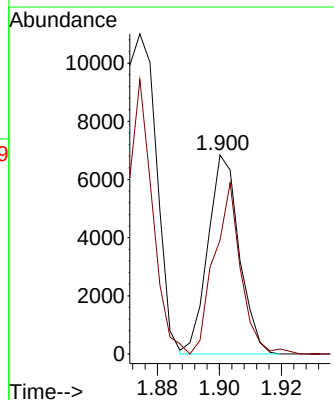
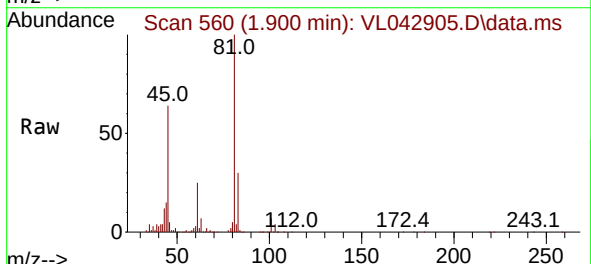
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

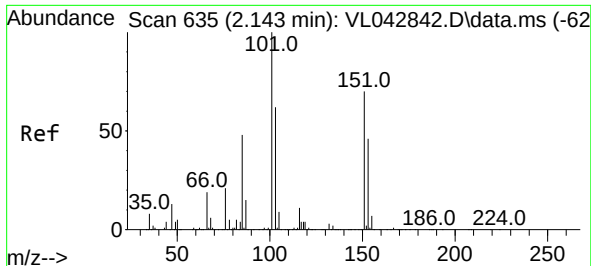
Tgt Ion: 43 Resp: 897
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0#



#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

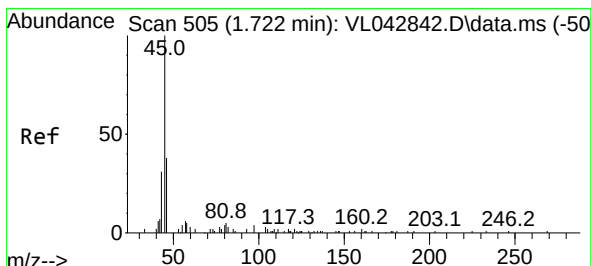
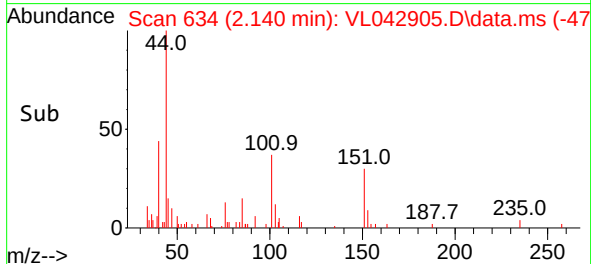
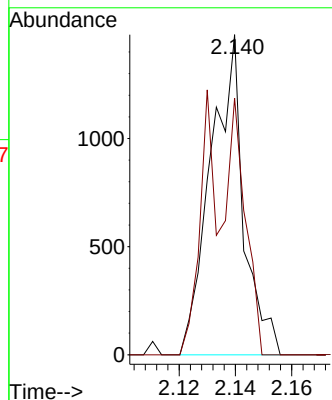
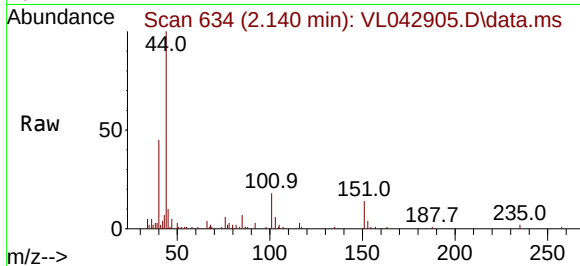




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

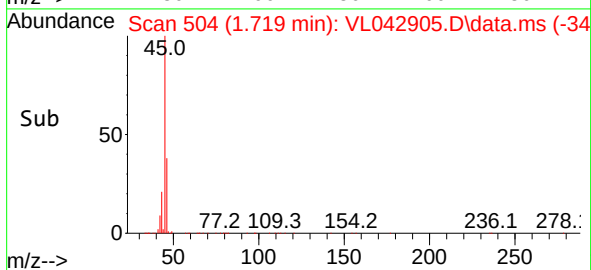
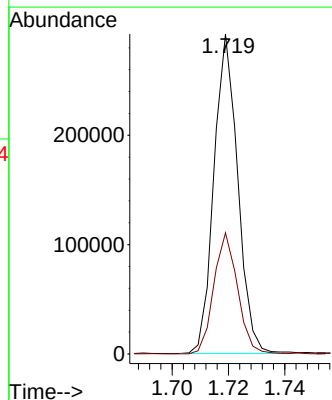
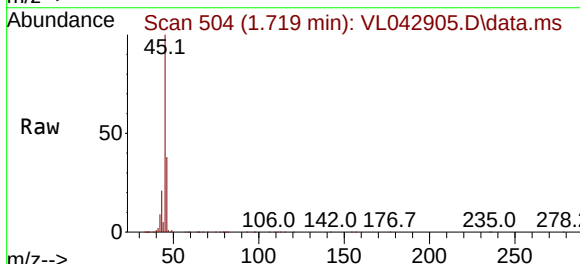
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

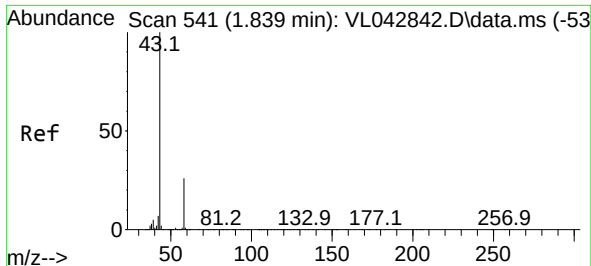
Tgt Ion:101 Resp: 1202
Ion Ratio Lower Upper
101 100
151 85.3 56.4 84.6#



#13
Ethanol
Concen: 189.695 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 171366
Ion Ratio Lower Upper
45 100
46 38.4 17.5 69.9

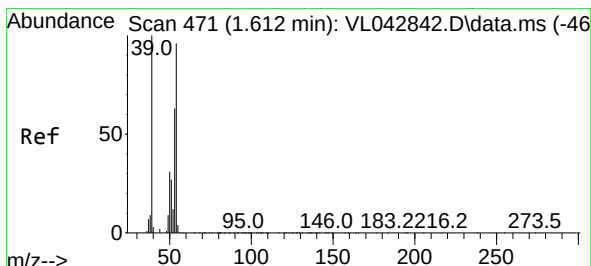
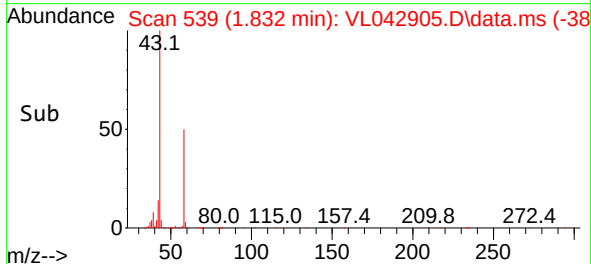
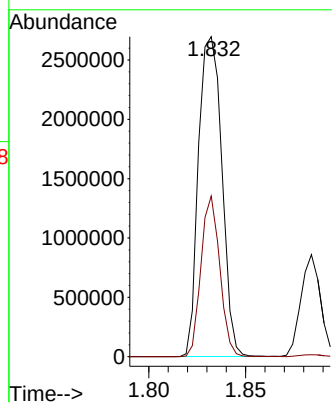
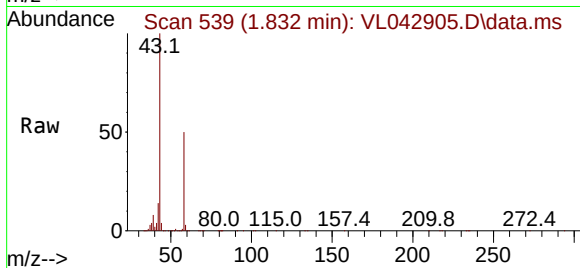




#15
Acetone
Concen: 121.496 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

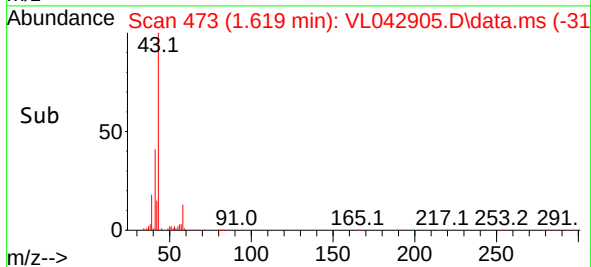
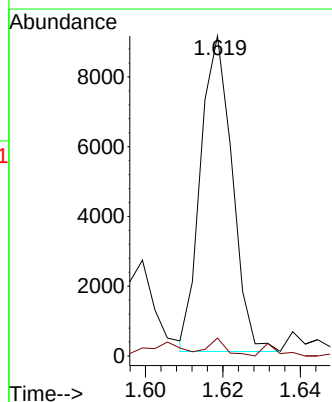
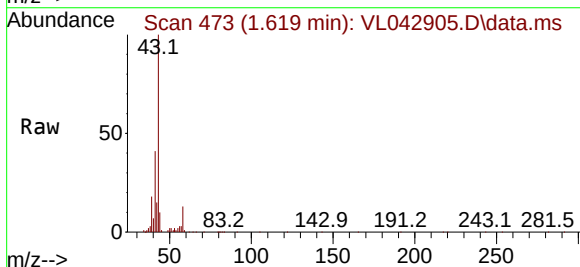
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

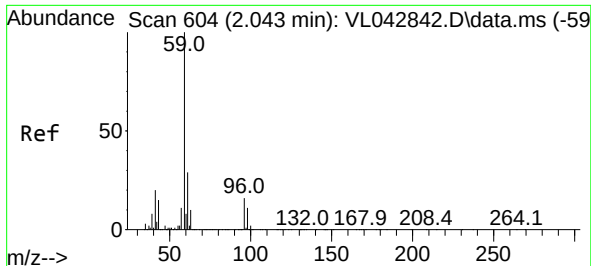
Tgt Ion: 43 Resp: 2269673
Ion Ratio Lower Upper
43 100
58 40.4 22.4 33.6#



#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#

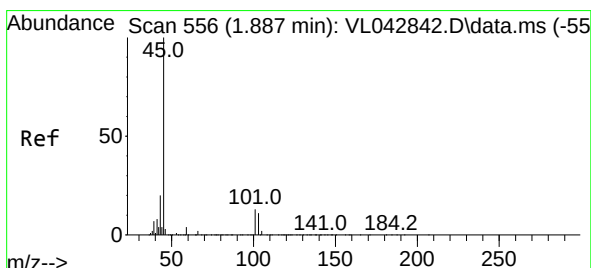
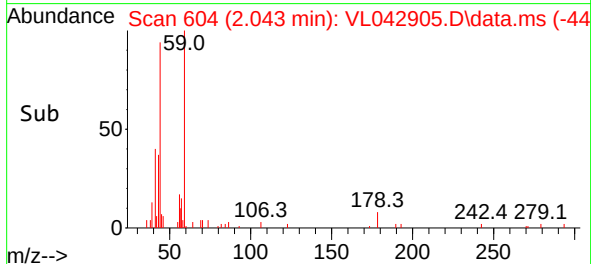
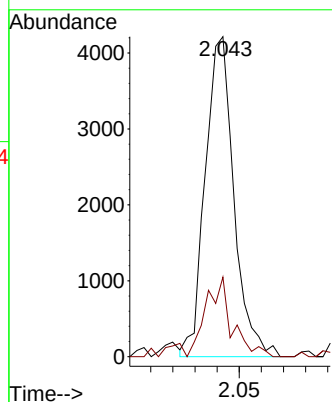
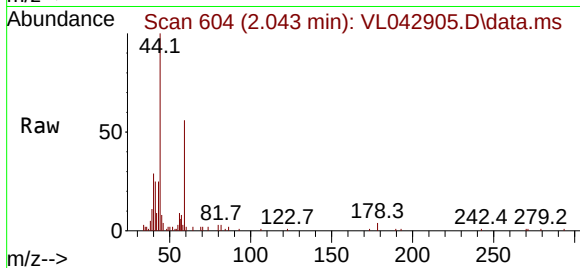




#17
tert-Butyl alcohol
Concen: 0.171 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

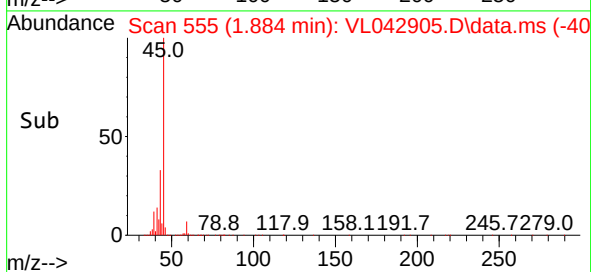
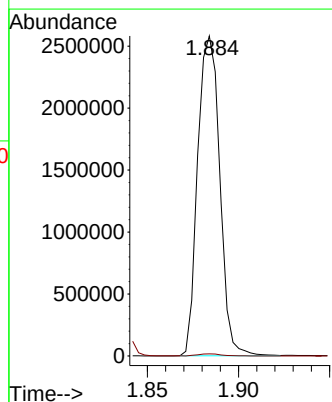
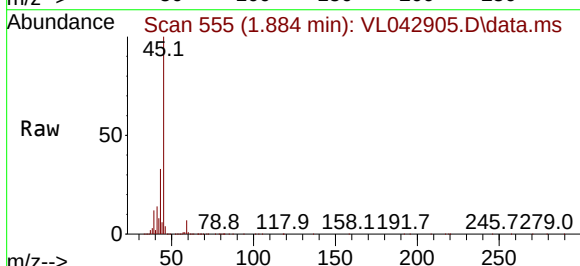
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

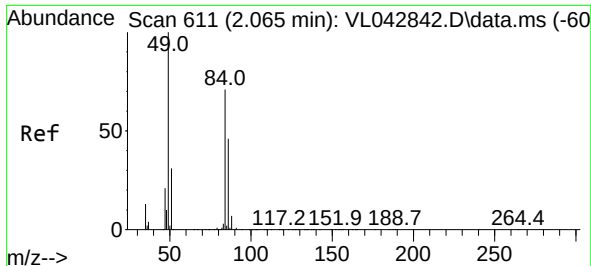
Tgt Ion: 59 Resp: 3792
Ion Ratio Lower Upper
59 100
57 52.6 9.0 13.4#



#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

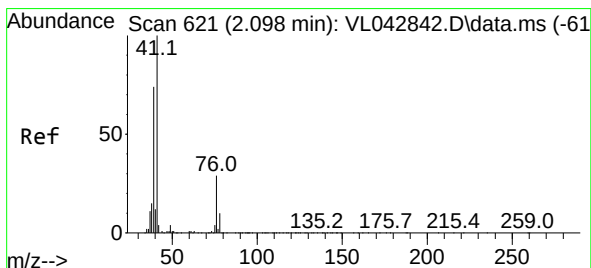
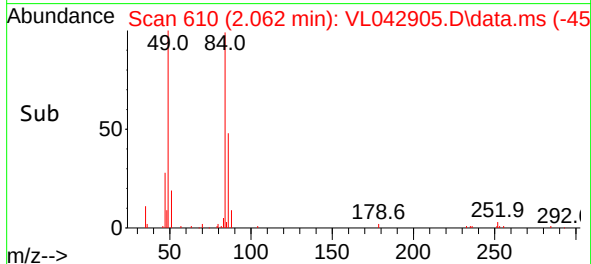
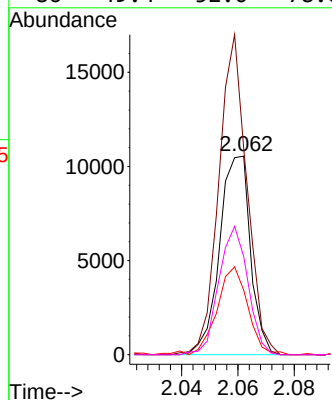
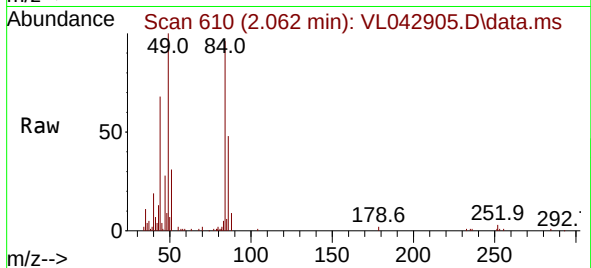




#20
Methylene Chloride
Concen: 1.028 ppbv
RT: 2.062 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

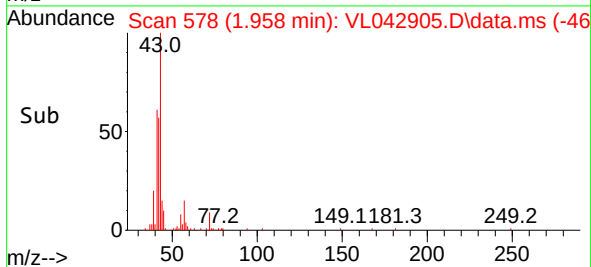
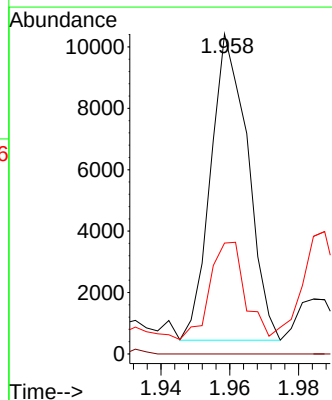
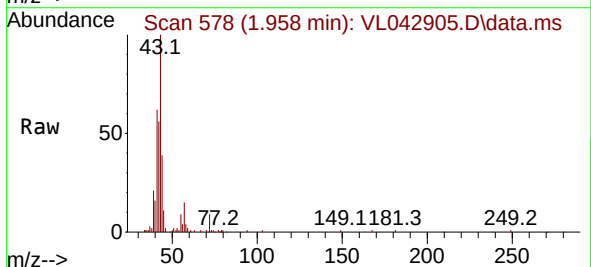
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

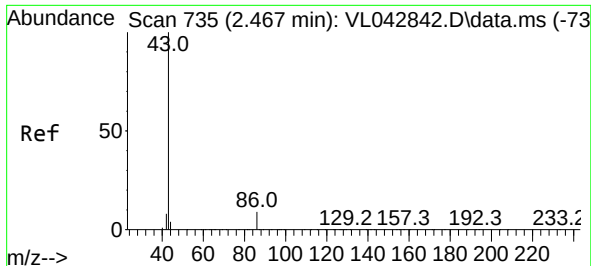
Tgt Ion: 84 Resp: 8047
Ion Ratio Lower Upper
84 100
49 102.7 112.3 168.5#
51 30.7 36.0 54.0#
86 49.4 52.0 78.0#



#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#

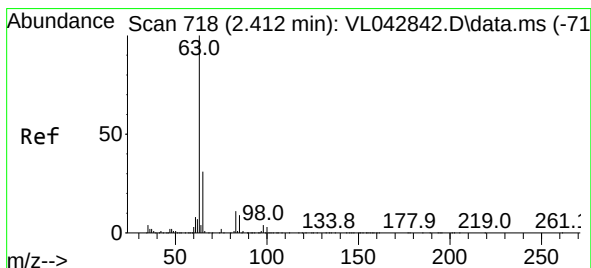
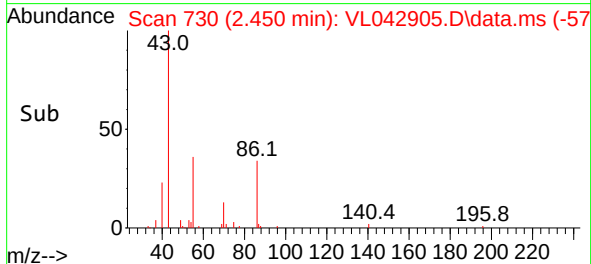
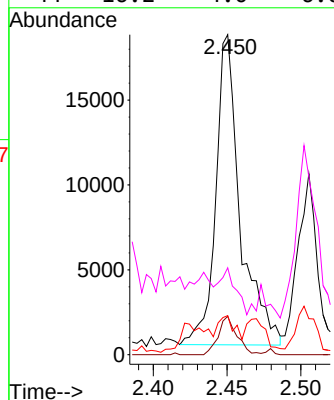
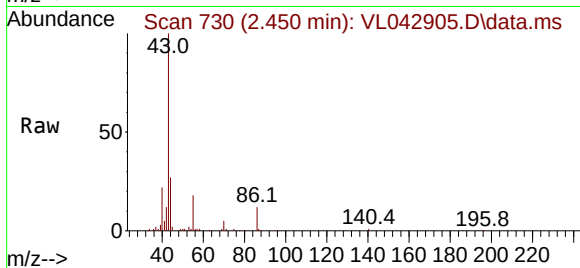




#23
 Vinyl Acetate
 Concen: 0.825 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

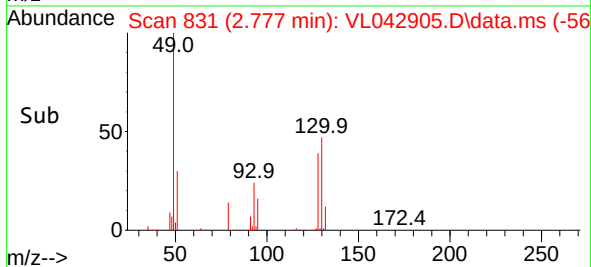
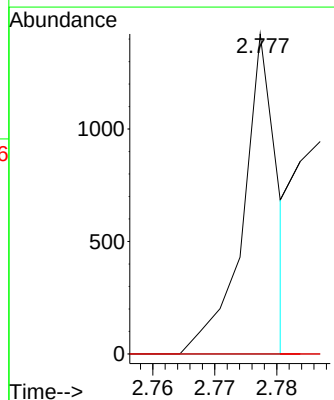
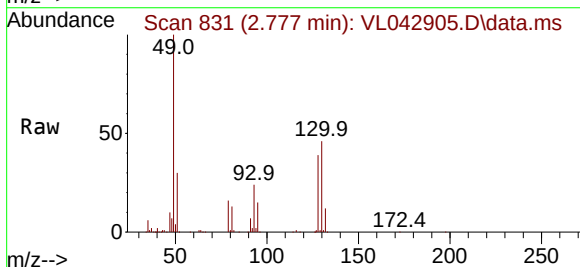
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

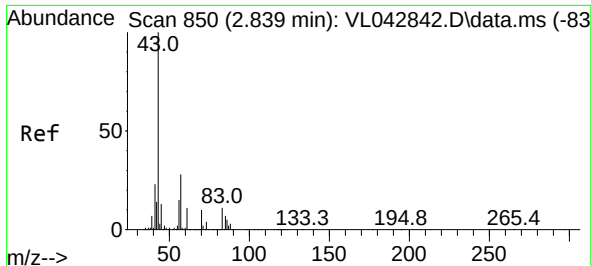
Tgt Ion:	43	Resp:	21178
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.6	9.8#
42	10.6	7.0	10.6#
44	16.2	4.0	6.0#



#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#

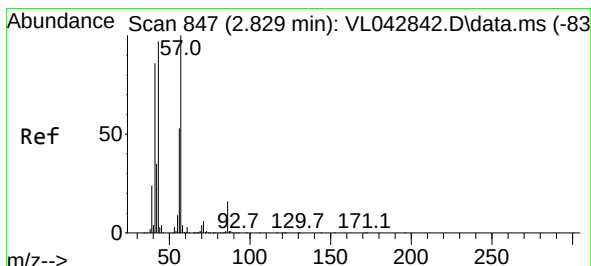
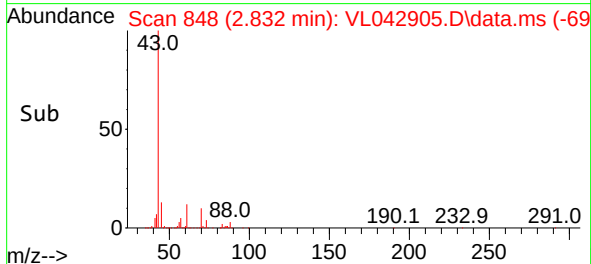
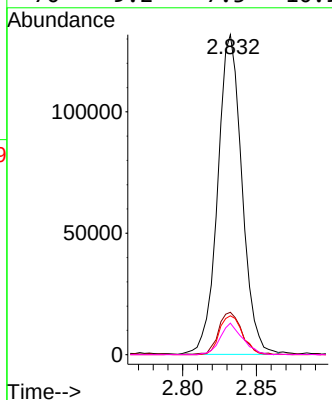
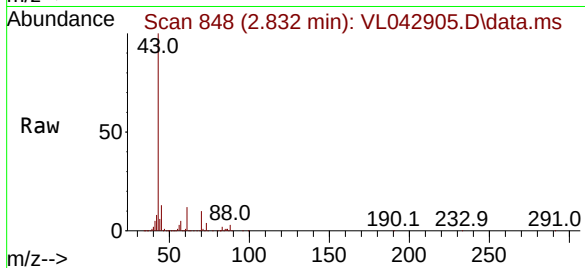




#25
Ethyl Acetate
Concen: 3.329 ppbv
RT: 2.832 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

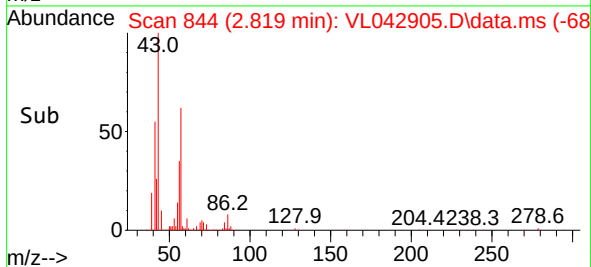
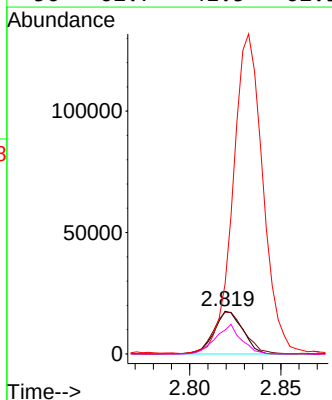
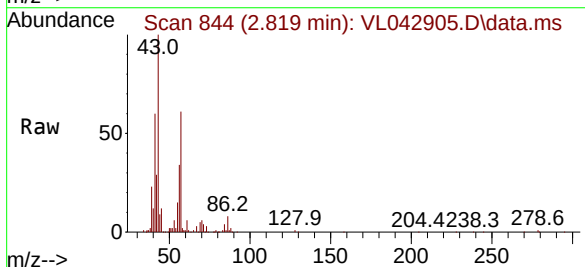
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

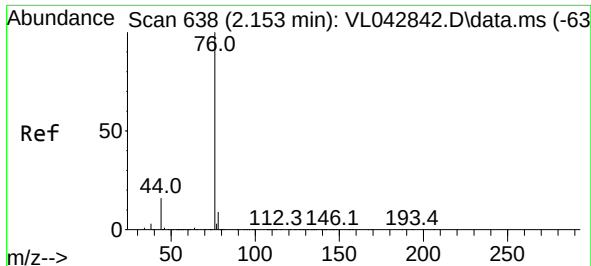
Tgt Ion: 43	Resp: 150520
Ion Ratio	Lower Upper
43 100	
45 12.7	8.1 12.1#
61 11.7	7.4 11.2#
70 9.2	7.3 10.9



#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

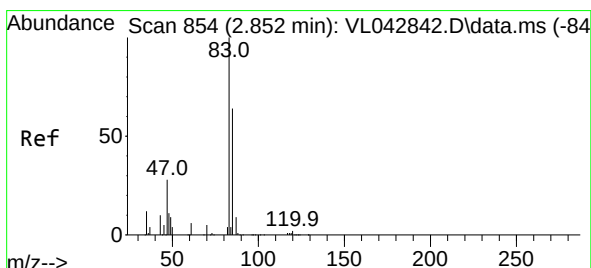
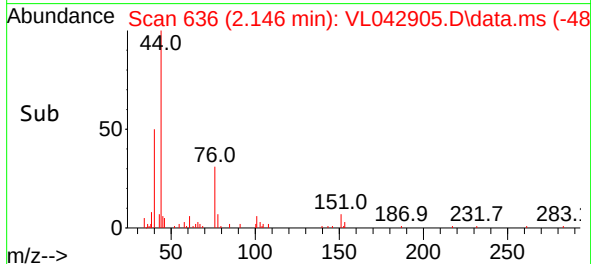
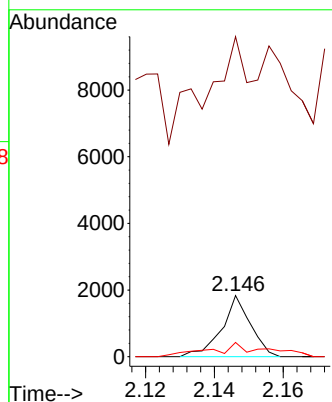
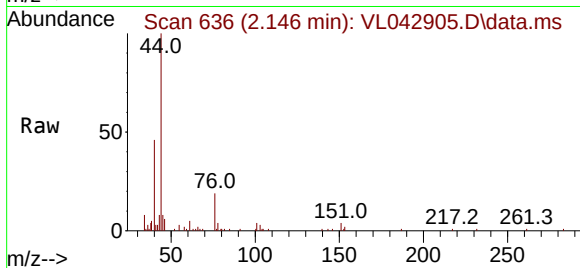
Tgt Ion: 76 Resp: 1070

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

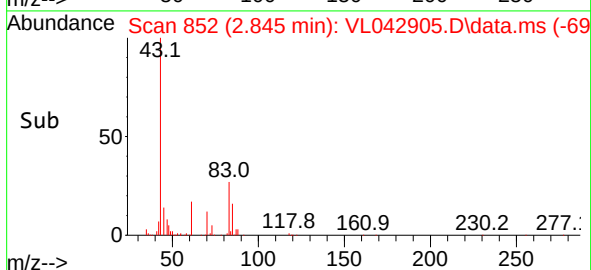
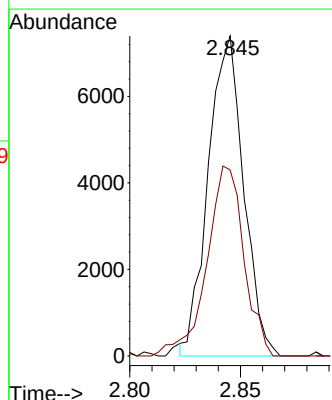
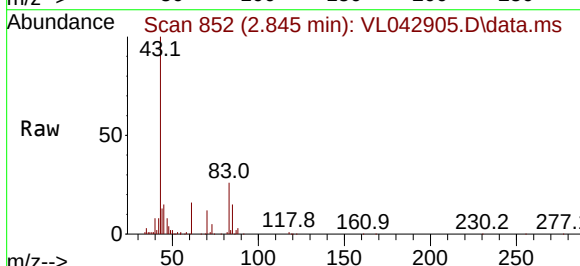
Acq: 08 Sep 2025 15:59

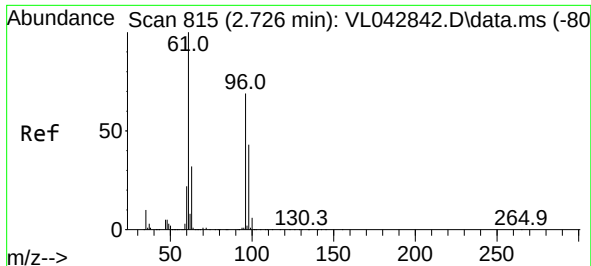
Tgt Ion: 83 Resp: 8213

Ion Ratio Lower Upper

83 100

85 58.1 51.1 76.7

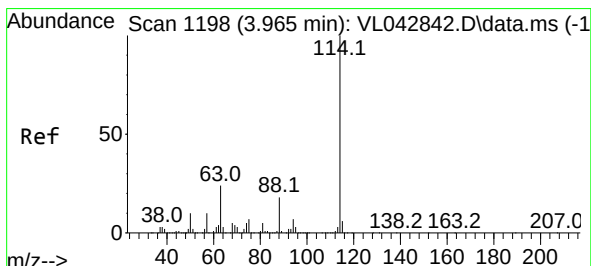
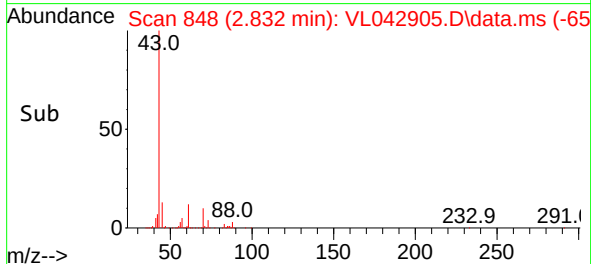
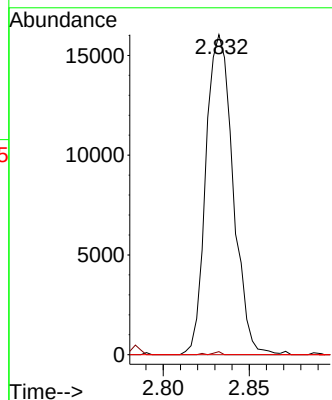
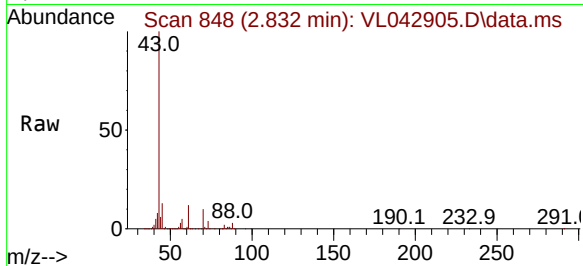




#31
 cis-1,2-Dichloroethene
 Concen: 0.843 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.120 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

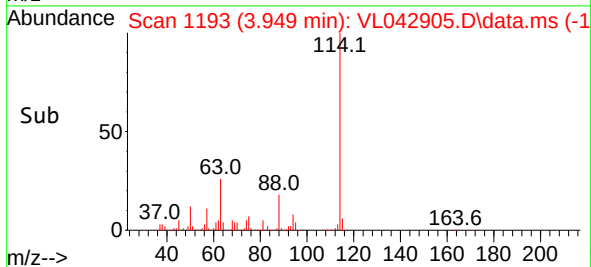
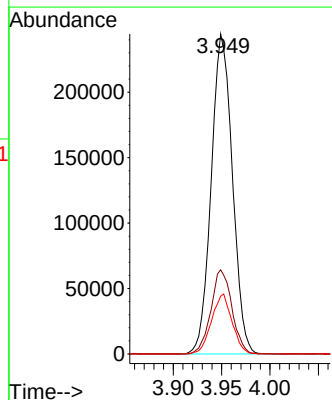
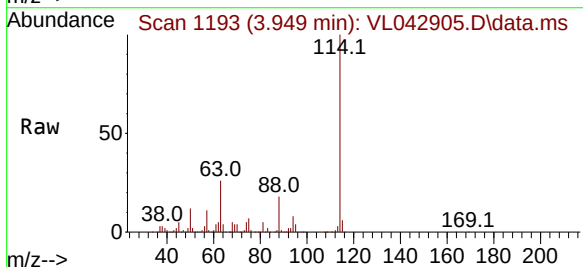
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

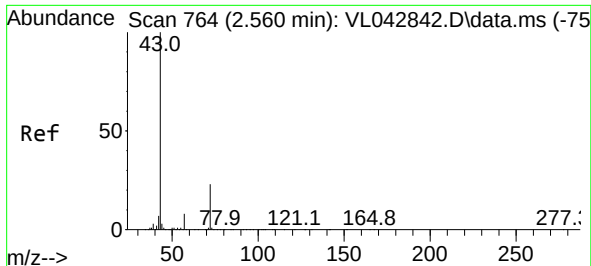
Tgt Ion: 61 Resp: 17577
 Ion Ratio Lower Upper
 61 100
 96 1.0 55.0 82.6#
 98 0.0 34.3 51.5#



#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

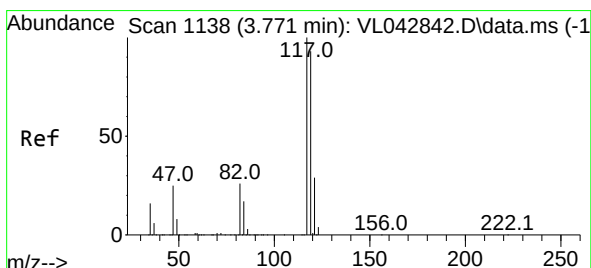
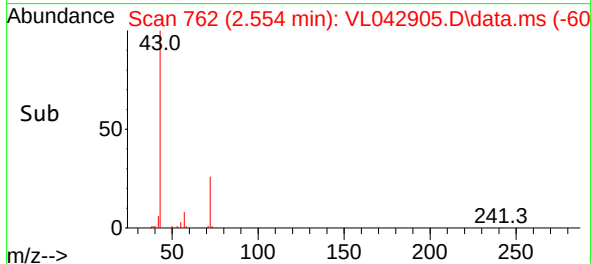
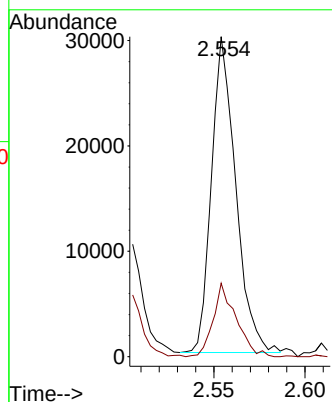
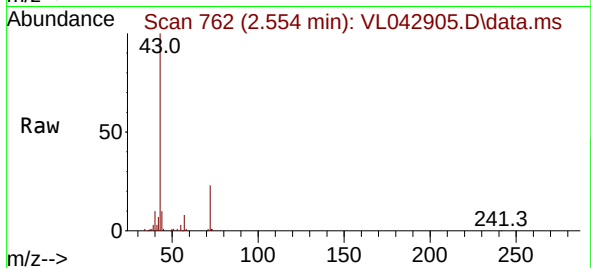




#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

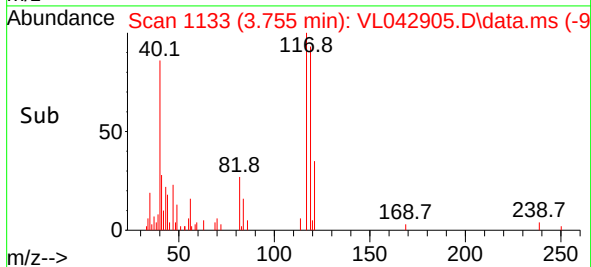
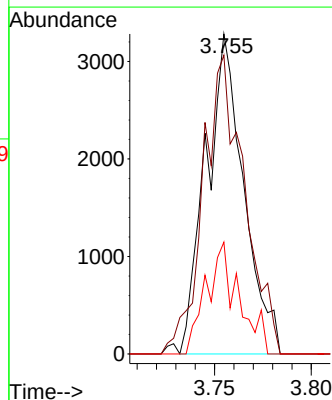
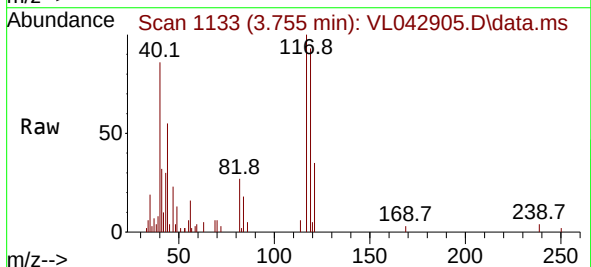
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

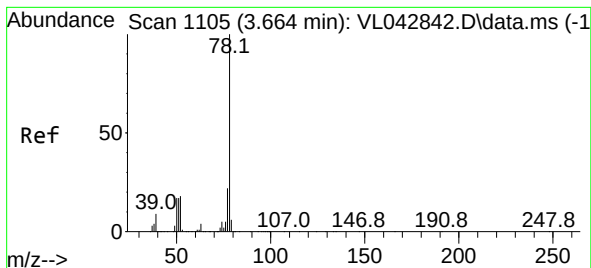
Tgt Ion: 43 Resp: 27696
Ion Ratio Lower Upper
43 100
72 21.9 18.6 28.0



#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# 1105

Delta R.T. 0.003 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

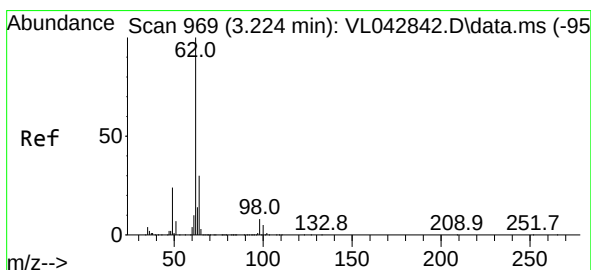
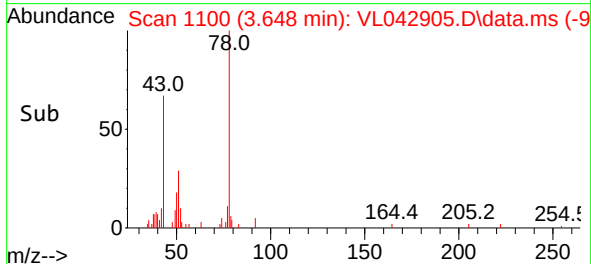
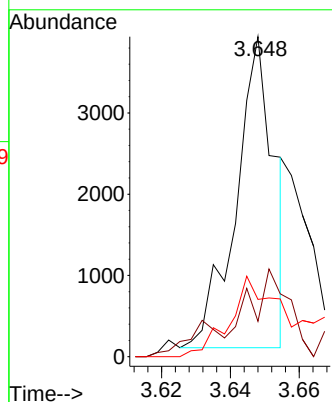
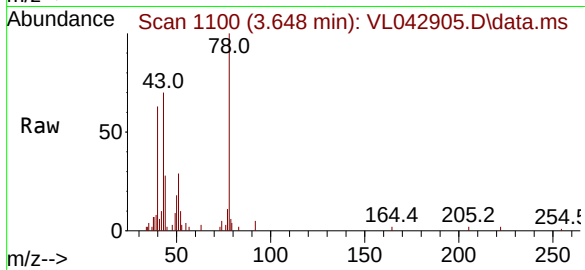
Tgt Ion: 78 Resp: 2959

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

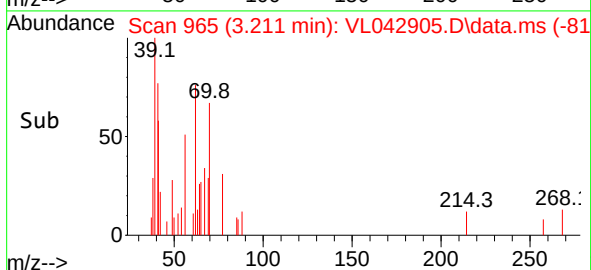
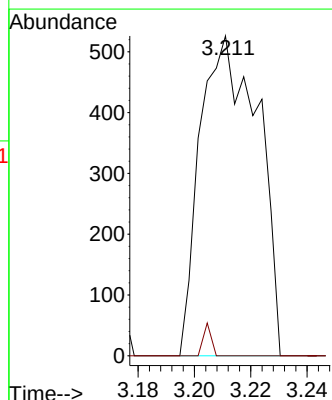
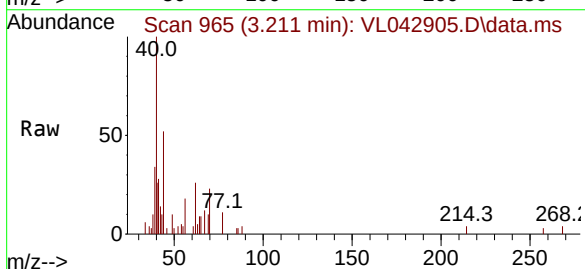
Acq: 08 Sep 2025 15:59

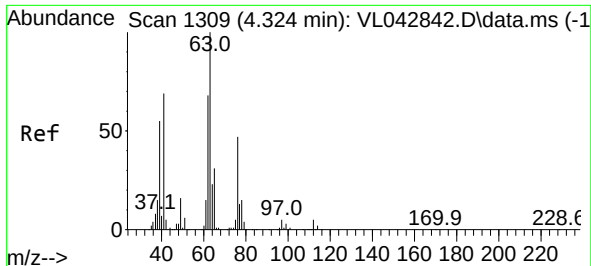
Tgt Ion: 62 Resp: 750

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

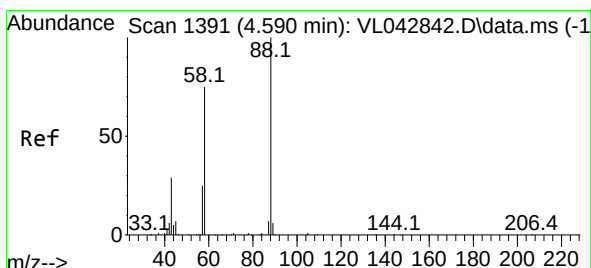
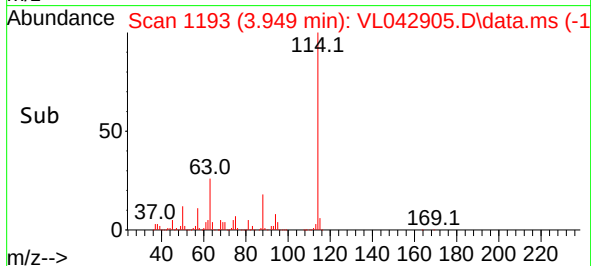
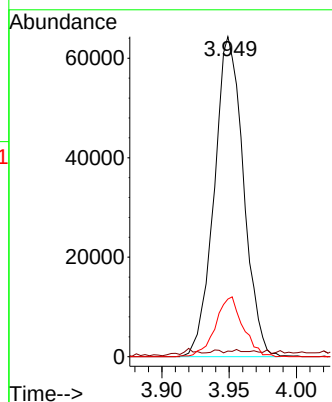
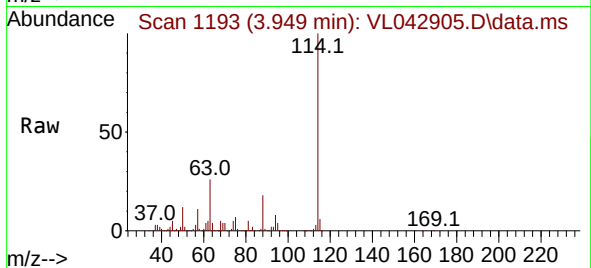
Tgt Ion: 63 Resp: 97144

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

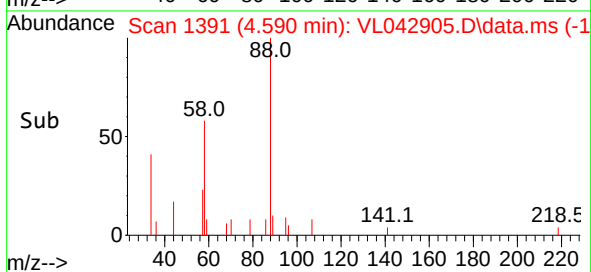
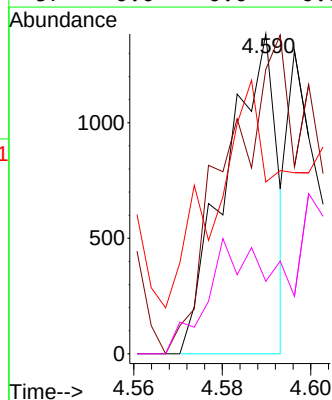
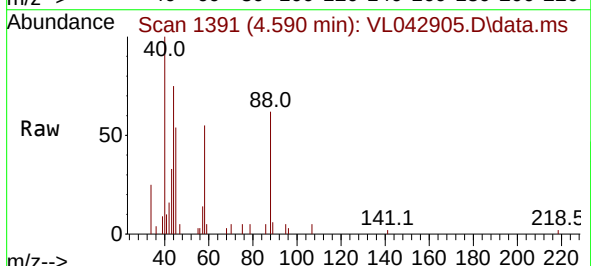
Ion Ratio Lower Upper

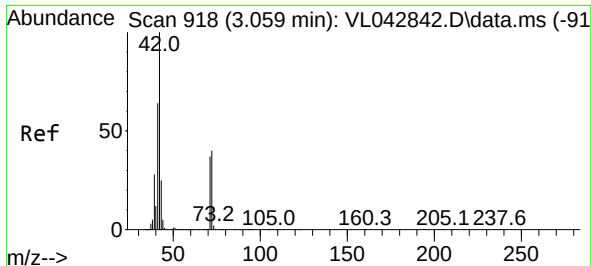
88 100

58 0.0 53.8 80.6#

43 63.5 22.8 34.2#

57 0.0 0.0 0.0

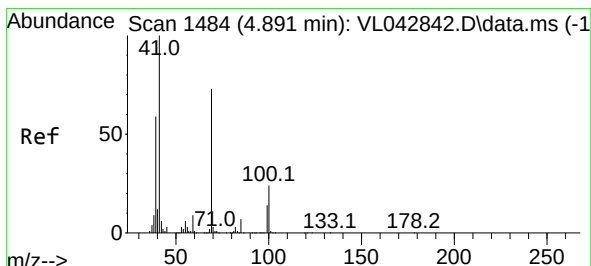
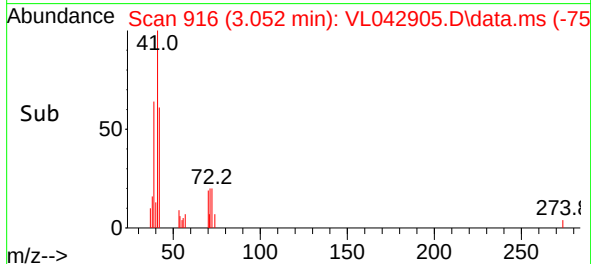
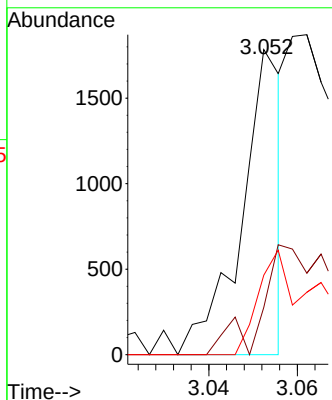
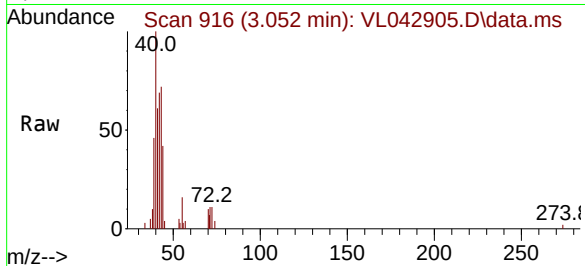




#41
Tetrahydrofuran
Concen: 0.081 ppbv
RT: 3.052 min Scan# 918
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

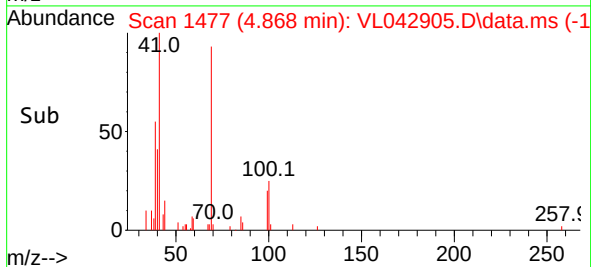
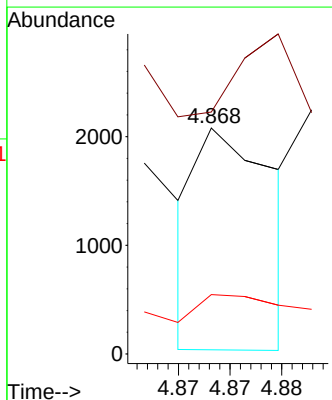
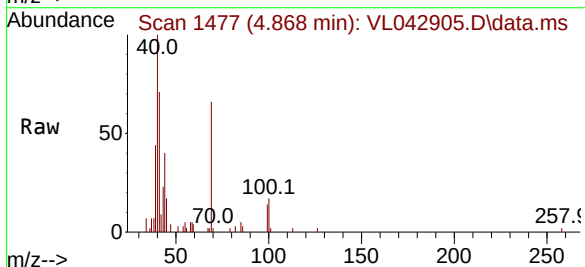
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

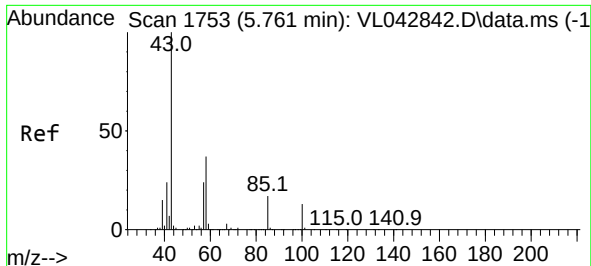
Tgt Ion: 42 Resp: 1132
Ion Ratio Lower Upper
42 100
72 68.4 32.6 48.8#
71 51.5 30.0 45.0#



#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 :

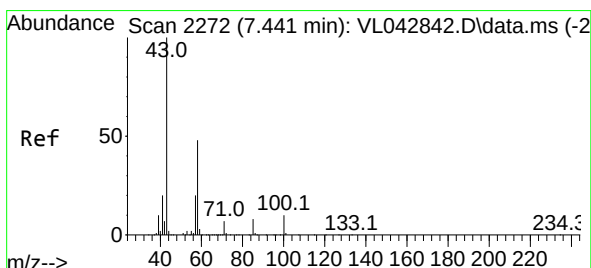
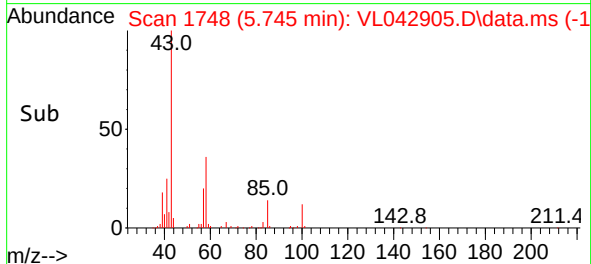
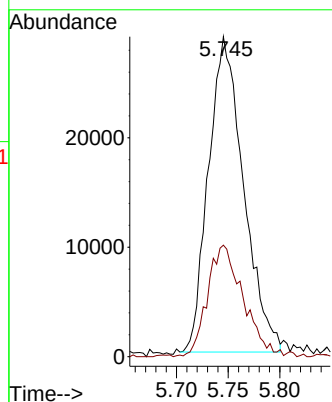
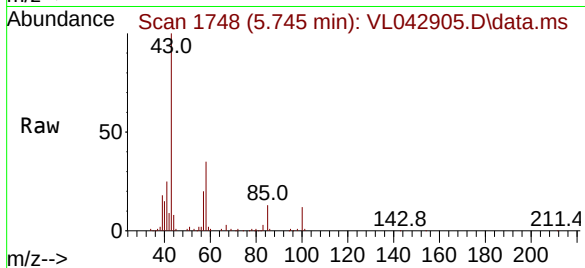
IA-2DUP

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

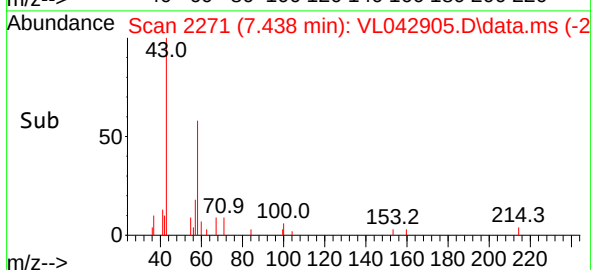
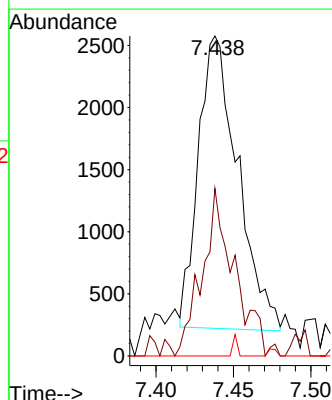
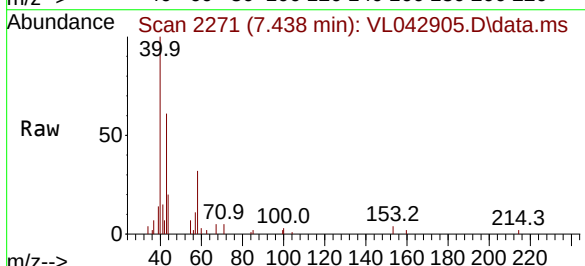
Tgt Ion: 43 Resp: 4166

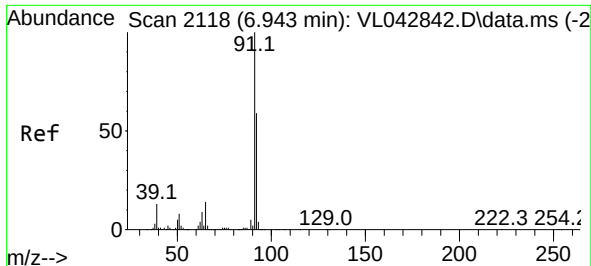
Ion Ratio Lower Upper

43 100

58 49.4 41.0 61.6

98 0.0 0.1 0.1#

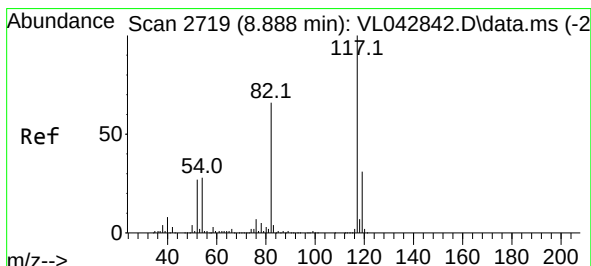
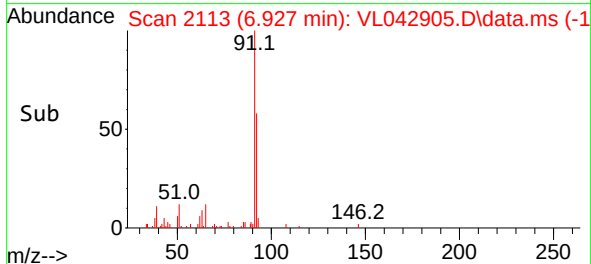
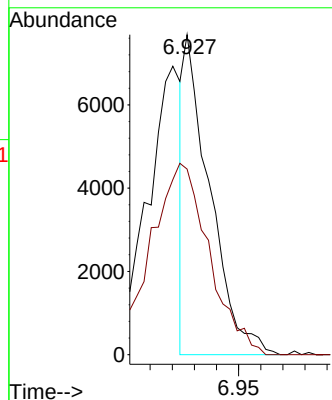
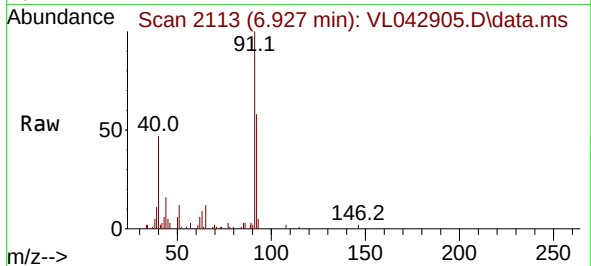




#53
Toluene
Concen: 0.147 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

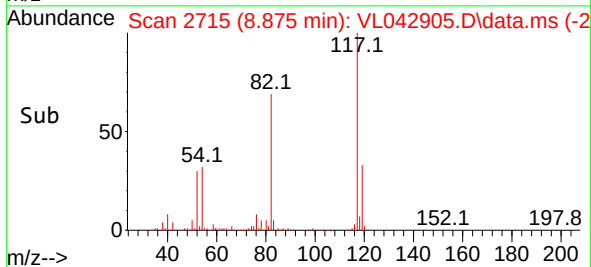
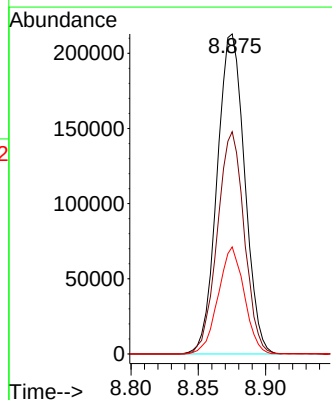
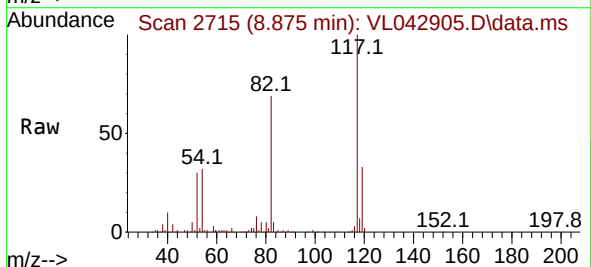
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

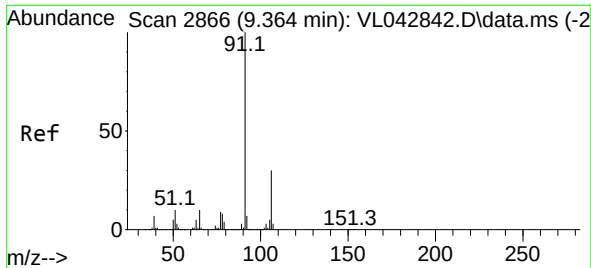
Tgt Ion: 91 Resp: 6220
Ion Ratio Lower Upper
91 100
92 139.5 47.8 71.6#



#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

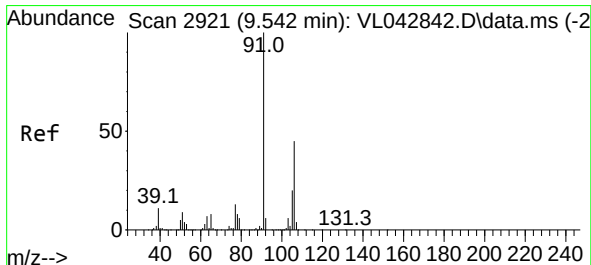
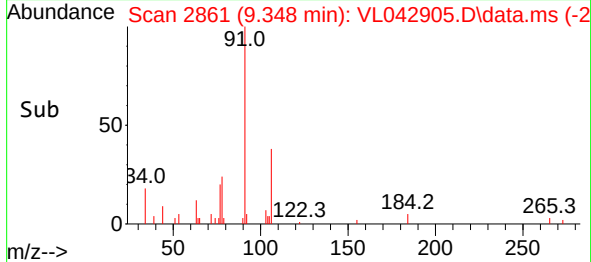
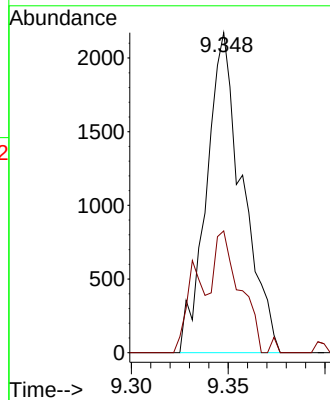
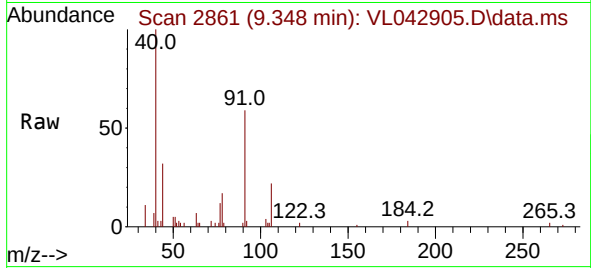




#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 9.348 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

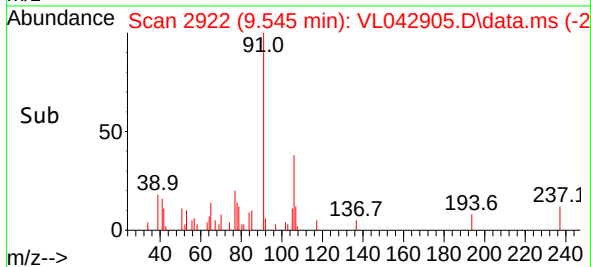
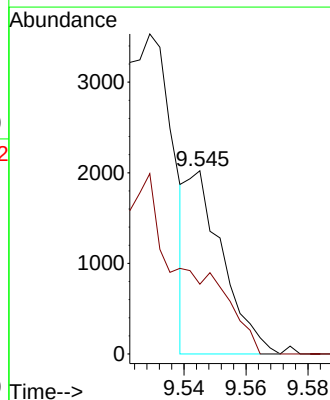
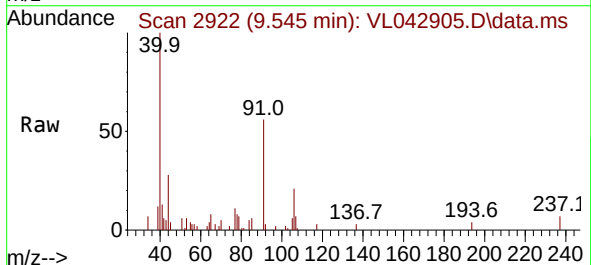
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

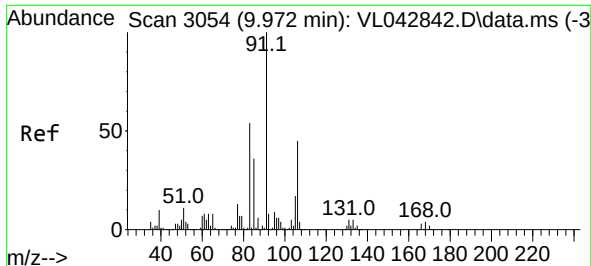
Tgt Ion: 91 Resp: 2812
Ion Ratio Lower Upper
91 100
106 38.1 23.9 35.9#



#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

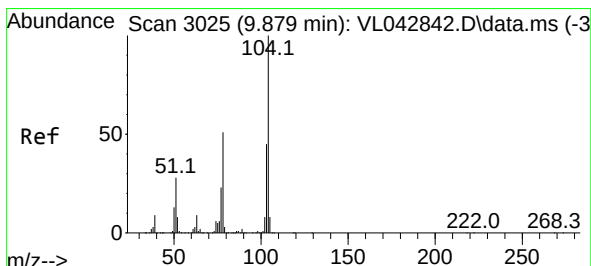
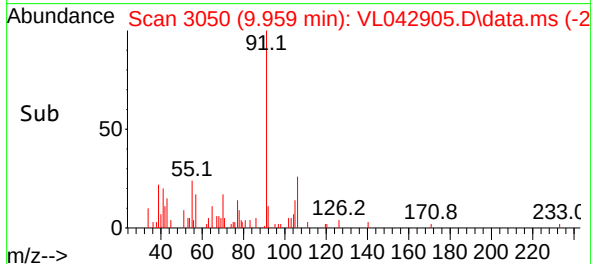
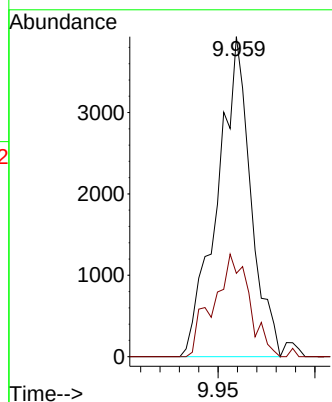
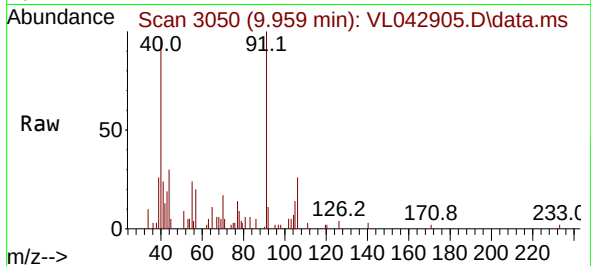




#60
o-Xylene
Concen: 0.112 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

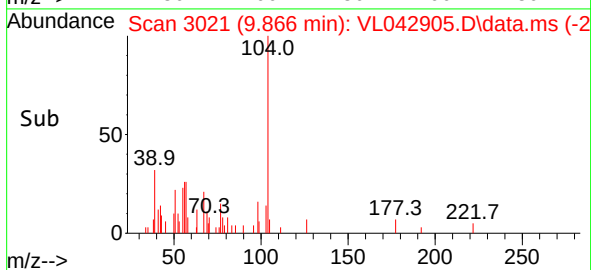
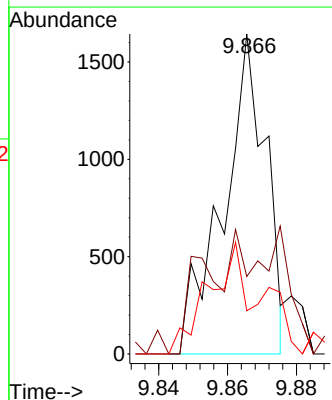
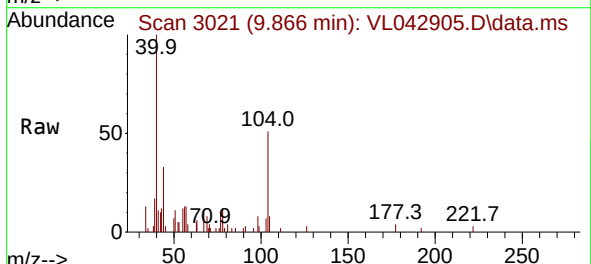
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

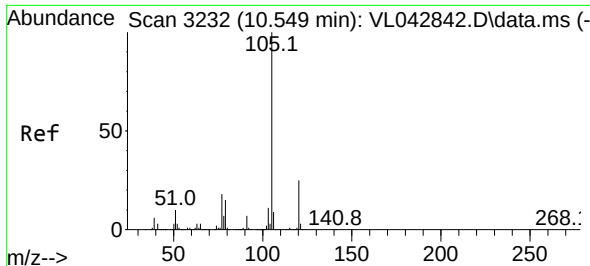
Tgt Ion: 91 Resp: 4723
Ion Ratio Lower Upper
91 100
106 35.0 21.8 65.4



#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

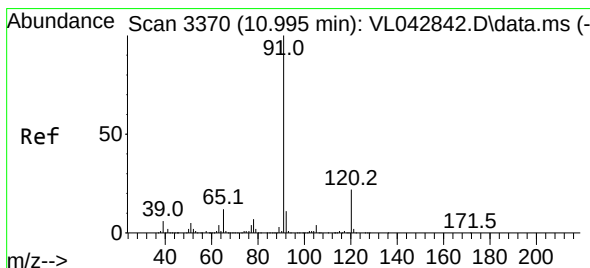
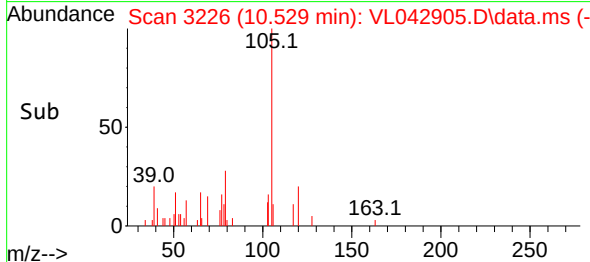
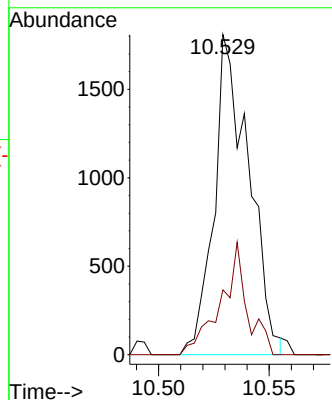
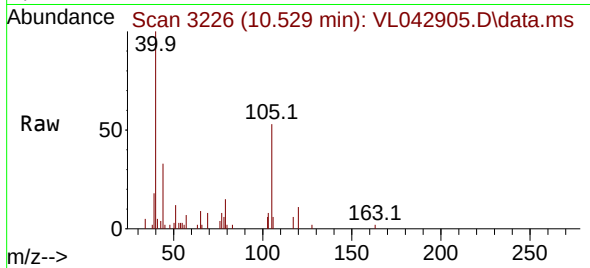




#62
Isopropylbenzene
Concen: 0.032 ppbv
RT: 10.529 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

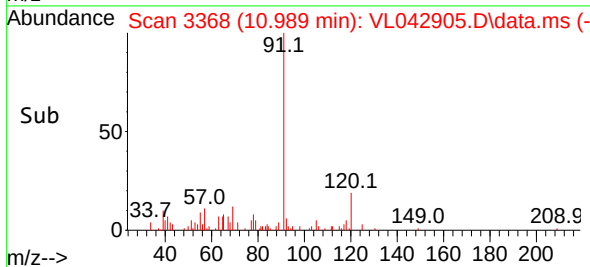
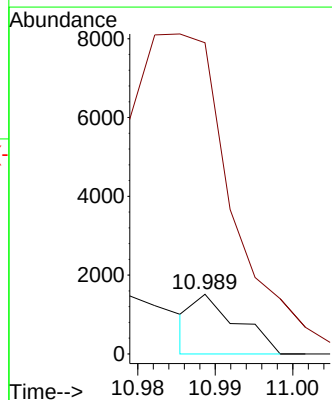
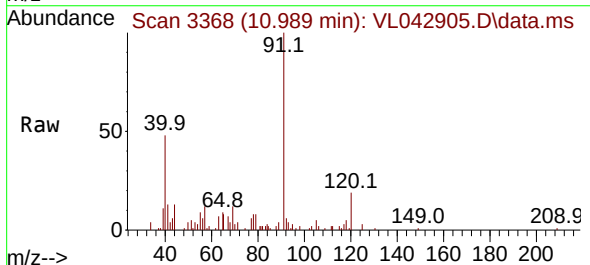
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

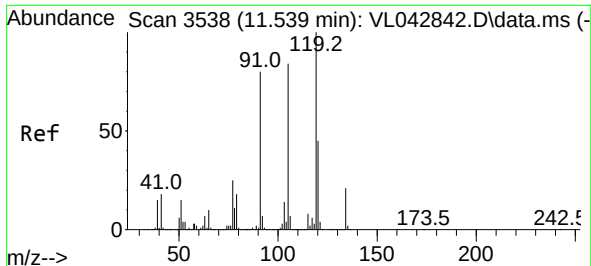
Tgt Ion:105 Resp: 1966
Ion Ratio Lower Upper
105 100
120 26.9 20.6 30.8



#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#

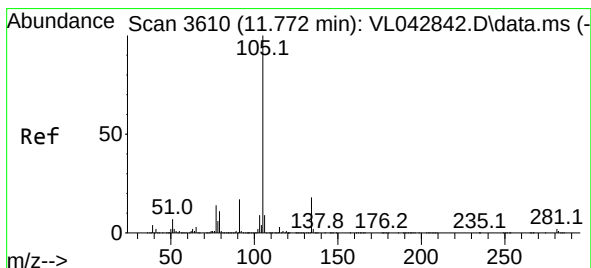
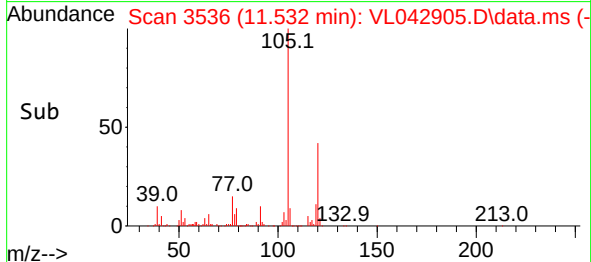
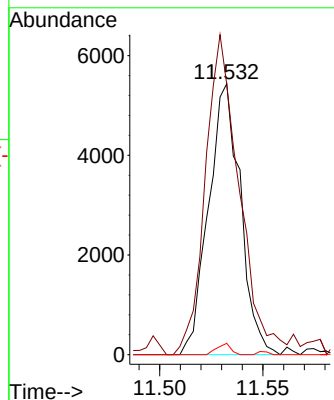
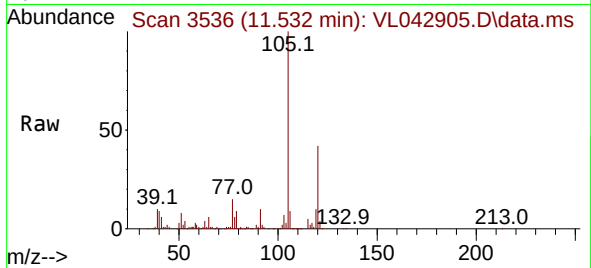




#65
tert-Butylbenzene
Concen: 0.108 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

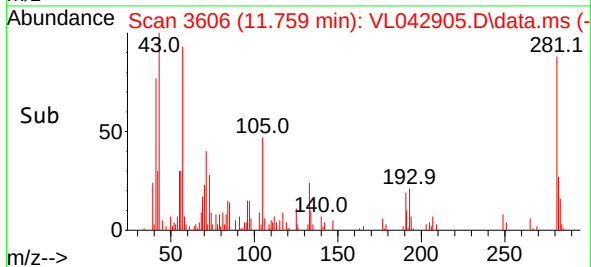
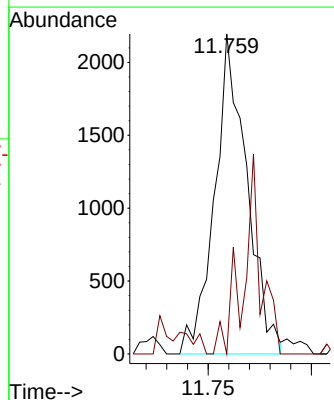
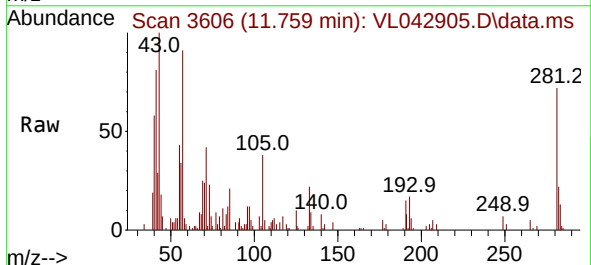
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

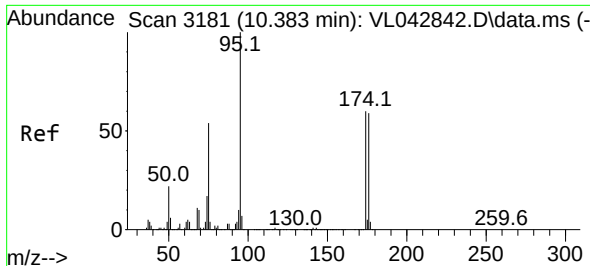
Tgt Ion:119 Resp: 5846
Ion Ratio Lower Upper
119 100
91 129.6 63.9 95.9#
134 2.2 17.0 25.4#



#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

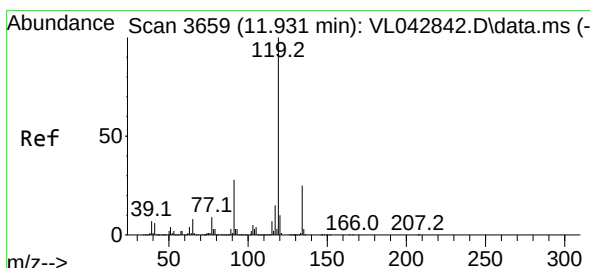
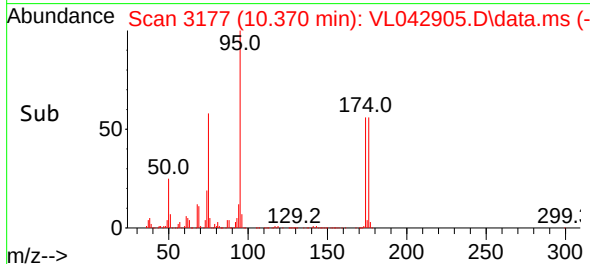
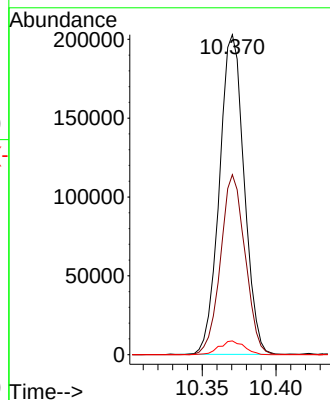
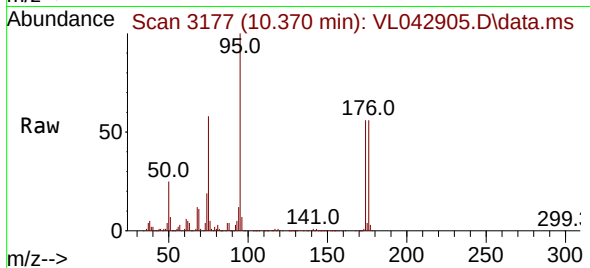
Tgt Ion: 95 Resp: 235889

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

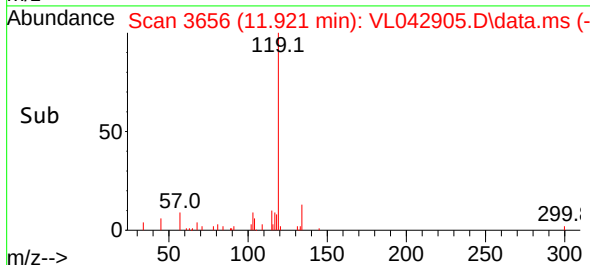
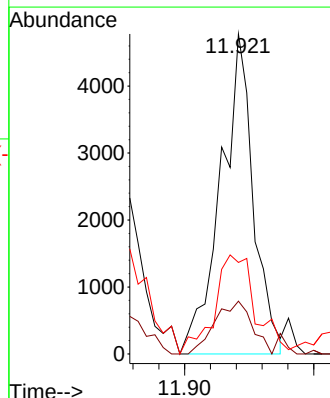
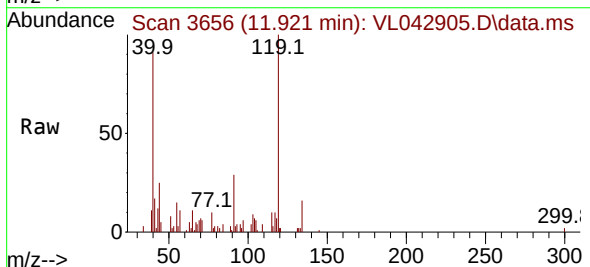
Tgt Ion: 119 Resp: 4177

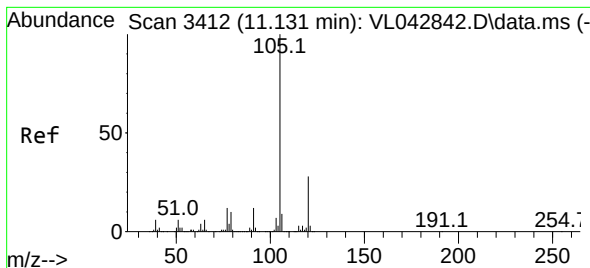
Ion Ratio Lower Upper

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_L

ClientSampleId :

IA-2DUP

Tgt Ion:105 Resp: 12693

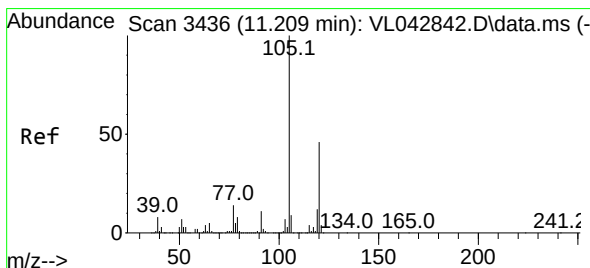
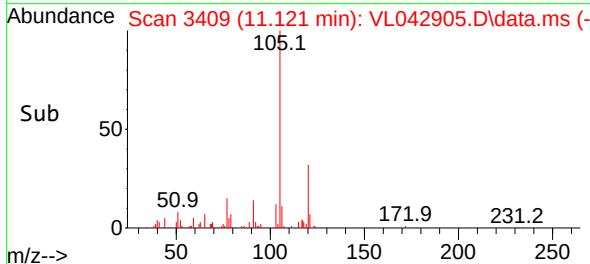
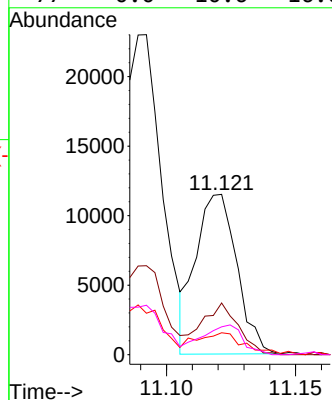
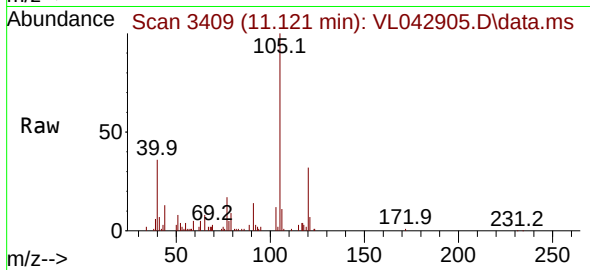
Ion Ratio Lower Upper

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

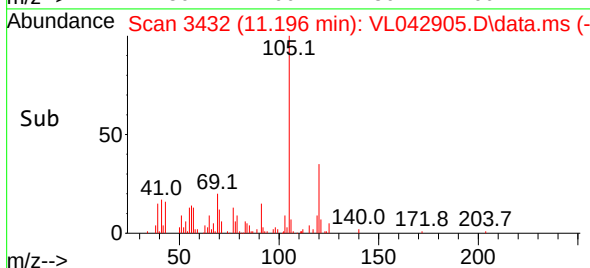
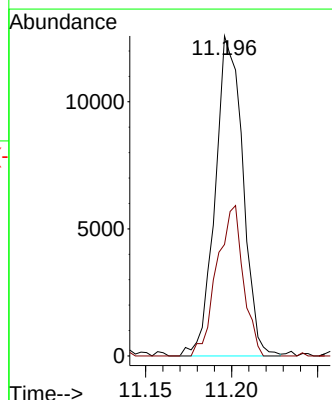
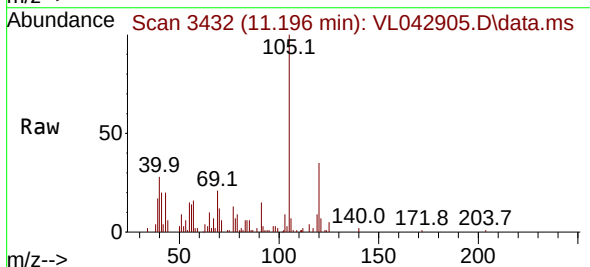
Acq: 08 Sep 2025 15:59

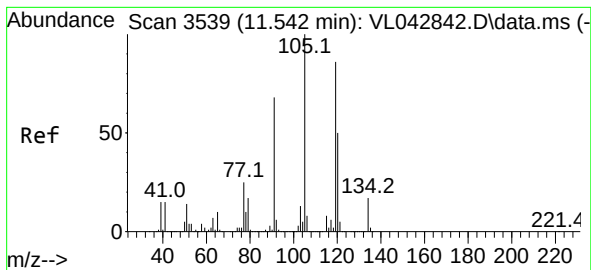
Tgt Ion:105 Resp: 14080

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

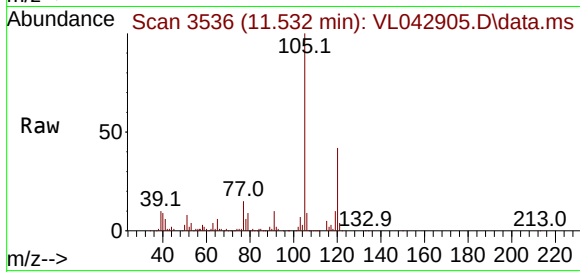
Acq: 08 Sep 2025 15:59

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#

