



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

Cover Page

Order ID : Q2727

Project ID : NJ AIR PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q2727-01

Client Sample Number

AE073-1100

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: 8/4/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS



A Waters Company

Invoice #	121263
Customer #	C307001
Date	7/28/2025
Page	1 of 1

Packing Slip

Bill To:

Alliance Technical Group LLC - Newark
255 Grant Street Southeast
Suite 600
Decatur, AL, USA 35601

Ship To:

Alliance Technical Group - Newark
284 Sheffield St
Mountainside, NJ, USA 07092-2319

Sohil Jodhani

Email Address: sohil@chemtech.net

(908) 728-3152

Order Comments:

Received by: SJ

7/30/2025 10:00



1736155

Cust Svc Rep		Payment Terms	Shipping Method	Purchase Order #		Order #	
		NET 30	FEDEX ECON	PO2-2492		00205877	
QTY	CAT #	Product		Type	Lot #		Study #
1	1000	Volatiles in Gas Cylinder		PT	E073-1100		AE 073
1	HAZ	UN Packaging / Haz Surcharge		MISC	HAZ		

REPORT ANY PROBLEMS WITHIN 5 DAYS

Please check all items in the shipment against the attached packing list **immediately** upon receipt. ERA will **immediately replace** any broken or incorrect items related to this shipment that are **reported within 5 business days**.

**CALL ERA CUSTOMER SERVICE AT
1-888-372-0122 FOR
PROBLEMS WITH THIS SHIPMENT**

**All products Country of Origin: USA
Unless otherwise specified.**

121263

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



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

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ AIR PT

Project # N/A

Order ID # Q2727

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Air sample was received on 07/30/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

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 Group3 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD for {VL0731ABSD01} with File ID: VL042794.D met criteria except for Propene[28%] due to difference in results of BS and BSD.

The Blank Spike for {VL0731ABS01} with File ID: VL042790.D met requirements for all compounds except for Benzyl Chloride[134%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VL0731ABSD01} with File ID: VL042794.D met requirements for all compounds except for Benzyl Chloride[136%] is failing high but no positive hit in associate sample therefore no corrective action taken.

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

The %RSD is greater than 30% in the Initial Calibration method (VL072325AIR.M) for Ethanol, Naphthalene, and 1,2,4-Trichlorobenzene these compounds are passing on Linear Regression.



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

The Continuous Calibration File ID VL042788.D met the requirements except for Benzyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples AE073-1100, AE073-1100DL were diluted due to high concentrations.

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	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDado da	7/24/2025 2:20:57 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly

							tly
VSTDICCO 02	VL04274 8.D	cis-1,3- Dichloropropene	SAM	7/24/20 25 9:03:01 AM	MMDado da	7/24/20 25 2:20:59 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04274 8.D	Cyclohexane	SAM	7/24/20 25 9:03:01 AM	MMDado da	7/24/20 25 2:20:59 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04274 8.D	Heptane	SAM	7/24/20 25 9:03:01 AM	MMDado da	7/24/20 25 2:20:59 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04274 8.D	m/p-Xylene	SAM	7/24/20 25 9:03:01 AM	MMDado da	7/24/20 25 2:20:59 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04274 8.D	t-1,3- Dichloropropene	SAM	7/24/20 25 9:03:01 AM	MMDado da	7/24/20 25 2:20:59 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04274 8.D	trans-1,2- Dichloroethene	SAM	7/24/20 25 9:03:01 AM	MMDado da	7/24/20 25 2:20:59 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04274 9.D	1,4-Dioxane	SAM	7/24/20 25 9:03:21 AM	MMDado da	7/24/20 25 2:21:02 PM	Peak Integrat ed by Softwar e

							incorrectly
VSTDICCO01	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software

							e incorec tly
VSTDICCO 01	VL04274 9.D	t-1,3- Dichloropropene	SAM	7/24/20 25 9:03:21 AM	MMDado da	7/24/20 25 2:21:02 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	1,1,2- Trichloroethane	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	1,2- Dibromoethane	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	1,4-Dioxane	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	2-Hexanone	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	4-Methyl-2- Pentanone	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	Benzyl Chloride	SAM	7/24/20 25 9:03:31	MMDado da	7/24/20 25 2:21:04	Peak Integrat ed by

				AM		PM	Software incorrectly
VSTDIC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025	MMDado da	7/24/2025	Peak Integrated

				9:03:31 AM		2:21:04 PM	ed by Software incorrectly
VSTDIC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.	VL04275	Tetrachloroethene	SAM	7/24/20	MMDado	7/24/20	Peak

03	2.D			25 9:03:05 AM	da	25 2:21:09 PM	Integrat ed by Softwar e incorrec tly
VSTDICCO. 03	VL04275 2.D	Trichloroethene	SAM	7/24/20 25 9:03:05 AM	MMDado da	7/24/20 25 2:21:09 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 15	VL04275 3.D	m/p-Xylene	SAM	7/24/20 25 9:03:41 AM	MMDado da	7/24/20 25 2:21:10 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04275 4.D	1,1,2,2- Tetrachloroethane	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04275 4.D	1,2- Dibromoethane	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04275 4.D	Carbon Tetrachloride	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04275 4.D	Tetrachloroethene	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrat ed by Softwar e incorrec tly

VSTDIC0.1	VL042754.D	Trichloroethene	SAM	7/24/2025 9:03:10 AM	MMDado da	7/24/2025 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDado da	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDado da	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly

Sequence		VL073125	Instrument				MSVOA_I	
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason	
VSTDCCC010	VL042788.D	m/p-Xylene	SAM	8/1/2025 10:51:05 AM	MMDadoda	8/1/2025 4:16:30 PM	Peak Integrated by Software incorrectly	
VL0731ABS01	VL042790.D	m/p-Xylene	SAM	8/1/2025 10:51:10 AM	MMDadoda	8/1/2025 4:16:31 PM	Peak Integrated by Software incorrectly	
VL0731ABSD01	VL042794.D	m/p-Xylene	SAM	8/1/2025 10:51:25 AM	MMDadoda	8/1/2025 4:16:38 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.



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

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 #: Q2727

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 08/04/2025

LAB CHRONICLE

OrderID:	Q2727	OrderDate:	7/30/2025 11:07:26 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ AIR PT
Contact:	Mohammad Ahmed	Location:	VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2727-01	AE073-1100	Air	VOCMS Group3	TO-15	07/28/25		07/31/25	07/30/25
Q2727-01DL	AE073-1100DL	Air	VOCMS Group3	TO-15	07/28/25		07/31/25	07/30/25
Q2727-01DL 2	AE073-1100DL2	Air	VOCMS Group3	TO-15	07/28/25		07/31/25	07/30/25

Hit Summary Sheet SW-846

SDG No.: Q2727

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: AE073-1100								
Q2727-01	AE073-1100	Air	Chloroethane	78.9	E	0.40	1.32	ug/m3
Q2727-01	AE073-1100	Air	Heptane	97.1	E	0.70	2.05	ug/m3
Q2727-01	AE073-1100	Air	1,1-Dichloroethene	155	E	0.59	1.98	ug/m3
Q2727-01	AE073-1100	Air	Benzene	161	E	0.26	1.60	ug/m3
Q2727-01	AE073-1100	Air	Bromodichloromethane	195	E	0.40	3.35	ug/m3
Q2727-01	AE073-1100	Air	Chlorobenzene	180	E	0.37	2.30	ug/m3
Q2727-01	AE073-1100	Air	Total Xylenes	373		2.69	6.52	ug/m3
Q2727-01	AE073-1100	Air	m/p-Xylene	157	E	1.78	4.34	ug/m3
Q2727-01	AE073-1100	Air	o-Xylene	216	E	0.91	2.17	ug/m3
Q2727-01	AE073-1100	Air	1,3,5-Trimethylbenzene	180	E	0.88	2.46	ug/m3
Q2727-01	AE073-1100	Air	1,2-Dichlorobenzene	180	E	0.78	3.01	ug/m3
Total Voc :				1970				
Total Concentration:				1970				
Client ID: AE073-1100DL								
Q2727-01DL	AE073-1100DL	Air	Chloroethane	76.8	D	0.79	2.64	ug/m3
Q2727-01DL	AE073-1100DL	Air	Heptane	95.5	D	1.39	4.10	ug/m3
Q2727-01DL	AE073-1100DL	Air	1,1-Dichloroethene	155	ED	1.19	3.96	ug/m3
Q2727-01DL	AE073-1100DL	Air	Benzene	175	ED	0.51	3.19	ug/m3
Q2727-01DL	AE073-1100DL	Air	Bromodichloromethane	200	D	0.87	6.70	ug/m3
Q2727-01DL	AE073-1100DL	Air	Chlorobenzene	193	ED	0.69	4.61	ug/m3
Q2727-01DL	AE073-1100DL	Air	Total Xylenes	410	D	5.39	13.0	ug/m3
Q2727-01DL	AE073-1100DL	Air	m/p-Xylene	166	D	3.56	8.69	ug/m3
Q2727-01DL	AE073-1100DL	Air	o-Xylene	244	ED	1.82	4.34	ug/m3
Q2727-01DL	AE073-1100DL	Air	1,3,5-Trimethylbenzene	193	ED	1.77	4.92	ug/m3
Q2727-01DL	AE073-1100DL	Air	1,2-Dichlorobenzene	187	ED	1.56	6.01	ug/m3
Total Voc :				2100				
Total Concentration:				2100				
Client ID: AE073-1100DL2								
Q2727-01DL2	AE073-1100DL2	Air	Chloroethane	81.0	D	1.58	5.28	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Heptane	92.2	D	2.79	8.20	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	1,1-Dichloroethene	159	D	2.38	7.93	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Benzene	179	D	1.02	6.39	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Bromodichloromethane	204	D	1.67	13.4	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Chlorobenzene	203	D	1.43	9.21	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Total Xylenes	416	D	10.6	26.1	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	m/p-Xylene	164	D	6.95	17.4	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q2727

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2727-01DL2	AE073-1100DL2	Air	o-Xylene	252	D	3.65	8.69	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	1,3,5-Trimethylbenzene	189	D	3.54	9.83	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	1,2-Dichlorobenzene	188	D	3.13	12.0	ug/m3
Total Voc :				2130				
Total Concentration:				2130				

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chlorodifluoromethane	75-45-6	86.47	0.12	U	0.42		
Dichlorodifluoromethane	75-71-8	120.9	0.11	U	0.54		
Ethanol	64-17-5	46.07	0.32	U	0.6		
Chloromethane	74-87-3	50.49	0.1	U	0.21		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Ethyl Acetate	141-78-6	97	0.12	U	0.48		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	29.9	E	78.9		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.17	U	0.96		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
Bromoethene	593-60-2	106.9	0.2	U	0.87		
Propene	115-07-1	42	0.08	U	0.14		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	23.7	E	97.1		
Isopropyl Alcohol	67-63-0	60.1	0.23	U	0.57		
1,1-Dichloroethene	75-35-4	96.94	39	E	154		
Acetone	67-64-1	58.08	0.18	U	0.43		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.23	U	0.8		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
Vinyl Acetate	108-05-4	88	0.26	U	0.94		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.06	U	0.18		
Carbon Tetrachloride	56-23-5	153.8	0.03	U	0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	50.3	E	160		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01

Target Analyts : Air Results

1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	29.1	E	194		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.16	U	0.6		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		
2-Hexanone	591-78-6	100	0.11	U	0.45		
Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	39	E	179		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	36.1	E	156		
Total Xylenes	1330-20-7	106.2	85.8		372		
o-Xylene	95-47-6	106.2	49.7	E	215		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
Isopropylbenzene	98-82-8	120.19	0.16	U	0.79		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	36.7	E	180		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	29.9	E	179		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	0.16	U	0.56		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
Benzyl Chloride	100-44-7	126.59	0.09	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chlorodifluoromethane	75-45-6	86.47	0.24	UD	0.85		
Dichlorodifluoromethane	75-71-8	120.9	0.22	UD	1.09		
Ethanol	64-17-5	46.07	0.64	UD	1.21		
Chloromethane	74-87-3	50.49	0.2	UD	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	UD	0.13		
Ethyl Acetate	141-78-6	97	0.24	UD	0.95		
Bromomethane	74-83-9	94.94	0.15	UD	0.58		
Chloroethane	75-00-3	64.52	29.1	D	76.8		
Tetrahydrofuran	109-99-9	72.11	0.16	UD	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	UD	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	UD	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	UD	2.15		
Bromoethene	593-60-2	106.9	0.4	UD	1.75		
Propene	115-07-1	42	0.15	UD	0.26		
tert-Butyl alcohol	75-65-0	74.12	0.32	UD	0.97		
Heptane	142-82-5	100.2	23.3	D	95.5		
Isopropyl Alcohol	67-63-0	60.1	0.46	UD	1.13		
1,1-Dichloroethene	75-35-4	96.94	39.1	ED	155		
Acetone	67-64-1	58.08	0.36	UD	0.86		
Carbon Disulfide	75-15-0	76.14	0.16	UD	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	UD	1.66		
Methylene Chloride	75-09-2	84.94	0.46	UD	1.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	UD	0.95		
Vinyl Acetate	108-05-4	88	0.52	UD	1.87		
1,1-Dichloroethane	75-34-3	98.96	0.26	UD	1.05		
Cyclohexane	110-82-7	84.16	0.44	UD	1.51		
2-Butanone	78-93-3	72.11	0.11	UD	0.32		
Carbon Tetrachloride	56-23-5	153.8	0.05	UD	0.31		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	UD	0.79		
Chloroform	67-66-3	119.4	0.19	UD	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	UD	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	UD	1.31		
Benzene	71-43-2	78.11	54.7	ED	174		
1,2-Dichloroethane	107-06-2	98.96	0.19	UD	0.77		
Trichloroethene	79-01-6	131.4	0.05	UD	0.27		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01DL

Target Analyts : Air Results

1,2-Dichloropropane	78-87-5	113	0.26	UD	1.2		
Bromodichloromethane	75-27-4	163.8	29.8	D	199		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	UD	0.78		
Toluene	108-88-3	92.14	0.32	UD	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.3	UD	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	UD	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	UD	0.87		
2-Hexanone	591-78-6	100	0.22	UD	0.9		
Dibromochloromethane	124-48-1	208.3	0.17	UD	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	UD	1.31		
Tetrachloroethene	127-18-4	165.8	0.03	UD	0.2		
Chlorobenzene	108-90-7	112.6	42	ED	193		
Ethyl Benzene	100-41-4	106.2	0.38	UD	1.65		
m/p-Xylene	179601-23-1	106.2	38.3	D	166		
Total Xylenes	1330-20-7	106.2	94.5	D	410		
o-Xylene	95-47-6	106.2	56.2	ED	244		
Styrene	100-42-5	104.1	0.32	UD	1.36		
Bromoform	75-25-2	252.8	0.1	UD	1.03		
Isopropylbenzene	98-82-8	120.19	0.32	UD	1.57		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	UD	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	39.2	ED	192		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	UD	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	UD	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	UD	1.56		
1,2-Dichlorobenzene	95-50-1	147	31.1	ED	186		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	UD	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	UD	2.77		
Naphthalene	91-20-3	128.17	0.03	UD	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	UD	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	UD	2.06		
Hexane	110-54-3	86.17	0.32	UD	1.13		
Allyl Chloride	107-05-1	76.53	0.22	UD	0.69		
Benzyl Chloride	100-44-7	126.59	0.18	UD	0.93		
1,4-Dioxane	123-91-1	88.12	0.44	UD	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	UD	1.15		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL2

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01DL2

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chlorodifluoromethane	75-45-6	86.47	0.48	UD	1.7		
Dichlorodifluoromethane	75-71-8	120.9	0.44	UD	2.18		
Ethanol	64-17-5	46.07	1.3	UD	2.45		
Chloromethane	74-87-3	50.49	0.39	UD	0.81		
Vinyl Chloride	75-01-4	62.5	0.1	UD	0.26		
Ethyl Acetate	141-78-6	97	0.48	UD	1.9		
Bromomethane	74-83-9	94.94	0.31	UD	1.2		
Chloroethane	75-00-3	64.52	30.7	D	81.0		
Tetrahydrofuran	109-99-9	72.11	0.32	UD	0.94		
Trichlorofluoromethane	75-69-4	137.4	0.68	UD	3.82		
Dichlorotetrafluoroethane	76-14-2	170.9	0.6	UD	4.19		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.56	UD	4.29		
Bromoethene	593-60-2	106.9	0.8	UD	3.5		
tert-Butyl alcohol	75-65-0	74.12	0.64	UD	1.94		
Propene	115-07-1	42	0.31	UD	0.53		
Heptane	142-82-5	100.2	22.5	D	92.2		
Isopropyl Alcohol	67-63-0	60.1	0.92	UD	2.26		
1,1-Dichloroethene	75-35-4	96.94	40.2	D	159		
Acetone	67-64-1	58.08	0.72	UD	1.71		
Carbon Disulfide	75-15-0	76.14	0.32	UD	1		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.92	UD	3.32		
Methylene Chloride	75-09-2	84.94	0.92	UD	3.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.48	UD	1.9		
Vinyl Acetate	108-05-4	88	1	UD	3.6		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	0.88	UD	3.03		
2-Butanone	78-93-3	72.11	0.22	UD	0.65		
Carbon Tetrachloride	56-23-5	153.8	0.1	UD	0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.4	UD	1.59		
Chloroform	67-66-3	119.4	0.38	UD	1.86		
1,1,1-Trichloroethane	71-55-6	133.4	0.06	UD	0.33		
2,2,4-Trimethylpentane	540-84-1	114.2	0.56	UD	2.62		
Benzene	71-43-2	78.11	56	D	178		
1,2-Dichloroethane	107-06-2	98.96	0.37	UD	1.5		
Trichloroethene	79-01-6	131.4	0.1	UD	0.54		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL2

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01DL2

Target Analyts : Air Results

1,2-Dichloropropane	78-87-5	113	0.52	UD	2.4		
Bromodichloromethane	75-27-4	163.8	30.5	D	204		
4-Methyl-2-Pentanone	108-10-1	100.2	0.39	UD	1.6		
Toluene	108-88-3	92.14	0.64	UD	2.41		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.44	UD	2		
1,1,2-Trichloroethane	79-00-5	133.4	0.32	UD	1.75		
2-Hexanone	591-78-6	100	0.44	UD	1.8		
Dibromochloromethane	124-48-1	208.3	0.34	UD	2.9		
1,2-Dibromoethane	106-93-4	187.9	0.34	UD	2.61		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	44.1	D	203		
Ethyl Benzene	100-41-4	106.2	0.76	UD	3.3		
m/p-Xylene	179601-23-1	106.2	37.7	D	163		
Total Xylenes	1330-20-7	106.2	95.7	D	415		
o-Xylene	95-47-6	106.2	58	D	251		
Styrene	100-42-5	104.1	0.64	UD	2.72		
Bromoform	75-25-2	252.8	0.19	UD	1.96		
Isopropylbenzene	98-82-8	120.19	0.64	UD	3.15		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.07	UD	0.48		
2-Chlorotoluene	95-49-8	126.6	0.68	UD	3.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	38.5	D	189		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.72	UD	3.54		
1,3-Dichlorobenzene	541-73-1	147	0.22	UD	1.32		
1,4-Dichlorobenzene	106-46-7	147	0.52	UD	3.13		
1,2-Dichlorobenzene	95-50-1	147	31.2	D	187		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.84	UD	6.24		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.52	UD	5.55		
Naphthalene	91-20-3	128.17	0.05	UD	0.26		
1,3-Butadiene	106-99-0	54.09	0.2	UD	0.44		
4-Ethyltoluene	622-96-8	120.2	0.84	UD	4.13		
Hexane	110-54-3	86.17	0.64	UD	2.26		
Allyl Chloride	107-05-1	76.53	0.44	UD	1.38		
Benzyl Chloride	100-44-7	126.59	0.36	UD	1.86		
1,4-Dioxane	123-91-1	88.12	0.88	UD	3.17		
Methyl Methacrylate	80-62-6	100.117	0.56	UD	2.29		

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

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



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

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.: Q2727

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2727-01	AE073-1100	1-Bromo-4-Fluorobenzene	10	10.7	107		65	135
Q2727-01DL	AE073-1100DL	1-Bromo-4-Fluorobenzene	10	10.6	106		65	135
Q2727-01DL2	AE073-1100DL2	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
VL0731ABL01	VL0731ABL01	1-Bromo-4-Fluorobenzene	10	9.82	98		65	135
VL0731ABS01	VL0731ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
VL0731ABSD01	VL0731ABSD01	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042790.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABS01	Chlorodifluoromethane	10	10.0	ppbv	100			70	130	
	Dichlorodifluoromethane	10	9.60	ppbv	96			70	130	
	Ethanol	10	8.70	ppbv	87			70	130	
	Chloromethane	10	9.80	ppbv	98			70	130	
	Vinyl Chloride	10	8.50	ppbv	85			70	130	
	Ethyl Acetate	10	10.5	ppbv	105			70	130	
	Bromomethane	10	9.00	ppbv	90			70	130	
	Chloroethane	10	8.80	ppbv	88			70	130	
	Tetrahydrofuran	10	11.4	ppbv	114			70	130	
	Trichlorofluoromethane	10	9.30	ppbv	93			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.40	ppbv	94			70	130	
	Dichlorotetrafluoroethane	10	9.40	ppbv	94			70	130	
	Bromoethene	10	9.50	ppbv	95			70	130	
	tert-Butyl Alcohol	10	9.00	ppbv	90			70	130	
	Propene	10	9.90	ppbv	99			70	130	
	Heptane	10	10.7	ppbv	107			70	130	
	Isopropyl Alcohol	10	8.80	ppbv	88			70	130	
	1,1-Dichloroethene	10	9.00	ppbv	90			70	130	
	Acetone	10	7.60	ppbv	76			70	130	
	Carbon disulfide	10	10.2	ppbv	102			70	130	
	Methyl tert-butyl Ether	10	9.70	ppbv	97			70	130	
	Methylene Chloride	10	8.40	ppbv	84			70	130	
	trans-1,2-Dichloroethene	10	9.50	ppbv	95			70	130	
	Vinyl Acetate	10	11.5	ppbv	115			70	130	
	1,1-Dichloroethane	10	9.40	ppbv	94			70	130	
	Cyclohexane	10	10.3	ppbv	103			70	130	
	2-Butanone	10	10.8	ppbv	108			70	130	
	Carbon Tetrachloride	10	10.7	ppbv	107			70	130	
	cis-1,2-Dichloroethene	10	10.0	ppbv	100			70	130	
	Chloroform	10	10.3	ppbv	103			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	11.1	ppbv	111			70	130	
	Benzene	10	10.5	ppbv	105			70	130	
	1,2-Dichloroethane	10	10.6	ppbv	106			70	130	
	Trichloroethene	10	9.80	ppbv	98			70	130	
	1,2-Dichloropropane	10	10.5	ppbv	105			70	130	
	Bromodichloromethane	10	11.1	ppbv	111			70	130	
	4-Methyl-2-Pentanone	10	11.3	ppbv	113			70	130	
	Toluene	10	11.0	ppbv	110			70	130	
	t-1,3-Dichloropropene	10	11.2	ppbv	112			70	130	
	cis-1,3-Dichloropropene	10	11.1	ppbv	111			70	130	
	1,1,2-Trichloroethane	10	10.6	ppbv	106			70	130	
	2-Hexanone	10	11.9	ppbv	119			70	130	
	Dibromochloromethane	10	11.3	ppbv	113			70	130	
	1,2-Dibromoethane	10	10.9	ppbv	109			70	130	
	Tetrachloroethene	10	9.50	ppbv	95			70	130	
	Chlorobenzene	10	10.4	ppbv	104			70	130	
	Ethyl Benzene	10	11.1	ppbv	111			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042790.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABS01	m/p-Xylene	20	22.8	ppbv	114			70	130	
	o-Xylene	10	11.2	ppbv	112			70	130	
	Styrene	10	11.4	ppbv	114			70	130	
	Bromoform	10	11.4	ppbv	114			70	130	
	Isopropylbenzene	10	11.0	ppbv	110			70	130	
	1,1,2,2-Tetrachloroethane	10	10.2	ppbv	102			70	130	
	2-Chlorotoluene	10	11.2	ppbv	112			70	130	
	1,3,5-Trimethylbenzene	10	11.9	ppbv	119			70	130	
	1,2,4-Trimethylbenzene	10	12.1	ppbv	121			70	130	
	1,3-Dichlorobenzene	10	10.9	ppbv	109			70	130	
	1,4-Dichlorobenzene	10	11.3	ppbv	113			70	130	
	1,2-Dichlorobenzene	10	10.8	ppbv	108			70	130	
	1,2,4-Trichlorobenzene	10	10.6	ppbv	106			70	130	
	Hexachloro-1,3-butadiene	10	9.50	ppbv	95			70	130	
	Naphthalene	10	10.5	ppbv	105			70	130	
	1,3-Butadiene	10	9.00	ppbv	90			70	130	
	4-Ethyltoluene	10	11.7	ppbv	117			70	130	
	Hexane	10	10.3	ppbv	103			70	130	
	Allyl Chloride	10	9.80	ppbv	98			70	130	
	1,4-Dioxane	10	8.60	ppbv	86			70	130	
	Benzyl Chloride	10	13.4	ppbv	134		*	70	130	
	Methyl methacrylate	10	11.5	ppbv	115			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABSD01	Chlorodifluoromethane	10	10.1	ppbv	101	1		70	130	25
	Dichlorodifluoromethane	10	9.70	ppbv	97	1		70	130	25
	Ethanol	10	8.30	ppbv	83	5		70	130	25
	Chloromethane	10	9.20	ppbv	92	6		70	130	25
	Vinyl Chloride	10	8.40	ppbv	84	1		70	130	25
	Ethyl Acetate	10	10.3	ppbv	103	2		70	130	25
	Bromomethane	10	9.10	ppbv	91	1		70	130	25
	Chloroethane	10	8.80	ppbv	88	0		70	130	25
	Tetrahydrofuran	10	11.4	ppbv	114	0		70	130	25
	Trichlorofluoromethane	10	9.00	ppbv	90	3		70	130	25
	1,1,2-Trichlorotrifluoroethane	10	9.40	ppbv	94	0		70	130	25
	Dichlorotetrafluoroethane	10	9.30	ppbv	93	1		70	130	25
	Bromoethene	10	9.00	ppbv	90	5		70	130	25
	tert-Butyl Alcohol	10	8.80	ppbv	88	2		70	130	25
	Propene	10	7.50	ppbv	75	28	*	70	130	25
	Heptane	10	10.6	ppbv	106	1		70	130	25
	Isopropyl Alcohol	10	8.50	ppbv	85	3		70	130	25
	1,1-Dichloroethene	10	8.90	ppbv	89	1		70	130	25
	Acetone	10	7.40	ppbv	74	3		70	130	25
	Carbon disulfide	10	10.0	ppbv	100	2		70	130	25
	Methyl tert-butyl Ether	10	9.00	ppbv	90	7		70	130	25
	Methylene Chloride	10	8.50	ppbv	85	1		70	130	25
	trans-1,2-Dichloroethene	10	9.20	ppbv	92	3		70	130	25
	Vinyl Acetate	10	11.1	ppbv	111	4		70	130	25
	1,1-Dichloroethane	10	9.20	ppbv	92	2		70	130	25
	Cyclohexane	10	9.70	ppbv	97	6		70	130	25
	2-Butanone	10	10.7	ppbv	107	1		70	130	25
	Carbon Tetrachloride	10	11.0	ppbv	110	3		70	130	25
	cis-1,2-Dichloroethene	10	9.60	ppbv	96	4		70	130	25
	Chloroform	10	10.2	ppbv	102	1		70	130	25
	1,1,1-Trichloroethane	10	9.60	ppbv	96	0		70	130	25
	2,2,4-Trimethylpentane	10	11.3	ppbv	113	2		70	130	25
	Benzene	10	10.7	ppbv	107	2		70	130	25
	1,2-Dichloroethane	10	10.8	ppbv	108	2		70	130	25
	Trichloroethene	10	10.0	ppbv	100	2		70	130	25
	1,2-Dichloropropane	10	10.7	ppbv	107	2		70	130	25
	Bromodichloromethane	10	11.3	ppbv	113	2		70	130	25
	4-Methyl-2-Pentanone	10	11.5	ppbv	115	2		70	130	25
	Toluene	10	11.1	ppbv	111	1		70	130	25
	t-1,3-Dichloropropene	10	11.0	ppbv	110	2		70	130	25
	cis-1,3-Dichloropropene	10	11.2	ppbv	112	1		70	130	25
	1,1,2-Trichloroethane	10	10.9	ppbv	109	3		70	130	25
	2-Hexanone	10	12.2	ppbv	122	2		70	130	25
	Dibromochloromethane	10	11.5	ppbv	115	2		70	130	25
	1,2-Dibromoethane	10	11.2	ppbv	112	3		70	130	25
	Tetrachloroethene	10	9.50	ppbv	95	0		70	130	25
	Chlorobenzene	10	10.5	ppbv	105	1		70	130	25
	Ethyl Benzene	10	11.2	ppbv	112	1		70	130	25

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABSD01	m/p-Xylene	20	23.3	ppbv	117	3		70	130	25
	o-Xylene	10	11.6	ppbv	116	4		70	130	25
	Styrene	10	11.8	ppbv	118	3		70	130	25
	Bromoform	10	11.8	ppbv	118	3		70	130	25
	Isopropylbenzene	10	11.3	ppbv	113	3		70	130	25
	1,1,2,2-Tetrachloroethane	10	10.3	ppbv	103	1		70	130	25
	2-Chlorotoluene	10	11.3	ppbv	113	1		70	130	25
	1,3,5-Trimethylbenzene	10	12.1	ppbv	121	2		70	130	25
	1,2,4-Trimethylbenzene	10	12.2	ppbv	122	1		70	130	25
	1,3-Dichlorobenzene	10	11.2	ppbv	112	3		70	130	25
	1,4-Dichlorobenzene	10	11.3	ppbv	113	0		70	130	25
	1,2-Dichlorobenzene	10	11.0	ppbv	110	2		70	130	25
	1,2,4-Trichlorobenzene	10	10.8	ppbv	108	2		70	130	25
	Hexachloro-1,3-butadiene	10	9.90	ppbv	99	4		70	130	25
	Naphthalene	10	10.8	ppbv	108	3		70	130	25
	1,3-Butadiene	10	8.90	ppbv	89	1		70	130	25
	4-Ethyltoluene	10	11.9	ppbv	119	2		70	130	25
	Hexane	10	10.1	ppbv	101	2		70	130	25
	Allyl Chloride	10	9.30	ppbv	93	5		70	130	25
	1,4-Dioxane	10	9.90	ppbv	99	14		70	130	25
	Benzyl Chloride	10	13.6	ppbv	136	1	*	70	130	25
	Methyl methacrylate	10	11.3	ppbv	113	2		70	130	25

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0731ABL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042789.D

Lab Sample ID: VL0731ABL01

Date Analyzed: 07/31/2025

Time Analyzed: 09:29

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
VL0731ABS01	VL0731ABS01	VL042790.D	07/31/2025
AE073-1100	Q2727-01	VL042791.D	07/31/2025
AE073-1100DL	Q2727-01DL	VL042792.D	07/31/2025
AE073-1100DL2	Q2727-01DL2	VL042793.D	07/31/2025
VL0731ABSD01	VL0731ABSD01	VL042794.D	07/31/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042746.D

BFB Injection Date: 07/23/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:00

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	24.9
75	30.0 - 66.0% of mass 95	59.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	65.3
175	4.0 - 9.0% of mass 174	5.2 (8) 1
176	93.0 - 101.0% of mass 174	64.6 (99) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042747.D	07/23/2025	08:58
VSTDICCC002	VSTDICCC002	VL042748.D	07/23/2025	09:34
VSTDICCC001	VSTDICCC001	VL042749.D	07/23/2025	10:08
VSTDICCC0.5	VSTDICCC0.5	VL042750.D	07/23/2025	10:42
VSTDICCC0.03	VSTDICCC0.03	VL042752.D	07/23/2025	11:50
VSTDICCC015	VSTDICCC015	VL042753.D	07/23/2025	12:26
VSTDICCC0.1	VSTDICCC0.1	VL042754.D	07/23/2025	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042787.D

BFB Injection Date: 07/31/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:46

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.3
75	30.0 - 66.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.7 (7.5) 1
176	93.0 - 101.0% of mass 174	62.4 (100.7) 1
177	5.0 - 9.0% of mass 176	3.9 (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	VL042788.D	07/31/2025	08:37
VL0731ABL01	VL0731ABL01	VL042789.D	07/31/2025	09:29
VL0731ABS01	VL0731ABS01	VL042790.D	07/31/2025	10:15
AE073-1100	Q2727-01	VL042791.D	07/31/2025	12:03
AE073-1100DL	Q2727-01DL	VL042792.D	07/31/2025	12:39
AE073-1100DL2	Q2727-01DL2	VL042793.D	07/31/2025	13:15
VL0731ABSD01	VL0731ABSD01	VL042794.D	07/31/2025	13:55

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG NO.: Q2727
 Lab File ID: VL042788.D Date Analyzed: 07/31/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:37
 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	139439	2.79	391811	3.97	345903	8.89
UPPER LIMIT	195215	3.12	548535	4.30	484264	9.22
LOWER LIMIT	83663.4	2.46	235087	3.64	207542	8.56
EPA SAMPLE NO.						
AE073-1100	141472	2.79	391365	3.97	346534	8.89
AE073-1100DL	136777	2.80	371224	3.97	324625	8.90
AE073-1100DL2	135095	2.80	368077	3.97	321275	8.90
VL0731ABL01	139538	2.79	390208	3.97	340795	8.89
VL0731ABS01	140975	2.79	391458	3.97	349880	8.89
VL0731ABSD01	143361	2.79	385270	3.97	347681	8.89

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:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100	SDG No.:	Q2727
Lab Sample ID:	Q2727-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042791.D	1		07/31/25 12:03	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.12	0.42	U	0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	0.12	0.48	U	0.48	1.98	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	29.9	78.9	E	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
593-60-2	Bromoethene	0.20	0.87	U	0.87	2.19	ug/m3
115-07-1	Propene	0.080	0.14	U	0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	23.7	97.1	E	0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	0.23	0.57	U	0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	39.0	155	E	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	0.26	0.94	U	0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	50.3	161	E	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100	SDG No.:	Q2727
Lab Sample ID:	Q2727-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042791.D	1		07/31/25 12:03	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	29.1	195	E	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3
591-78-6	2-Hexanone	0.11	0.45	U	0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	39.0	180	E	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	36.1	157	E	1.78	4.34	ug/m3
1330-20-7	Total Xylenes	85.8	373		2.69	6.52	ug/m3
95-47-6	o-Xylene	49.7	216	E	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	0.16	0.79	U	0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	36.7	180	E	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	29.9	180	E	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	0.090	0.47	UQ	0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100	SDG No.:	Q2727
Lab Sample ID:	Q2727-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042791.D	1		07/31/25 12:03	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135	107%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.794			
540-36-3	1,4-Difluorobenzene	391000		3.968			
3114-55-4	Chlorobenzene-d5	347000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042791.D
 Acq On : 31 Jul 2025 12:03
 Operator : SY/MD
 Sample : Q2727-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100

Quant Time: Aug 01 01:14:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

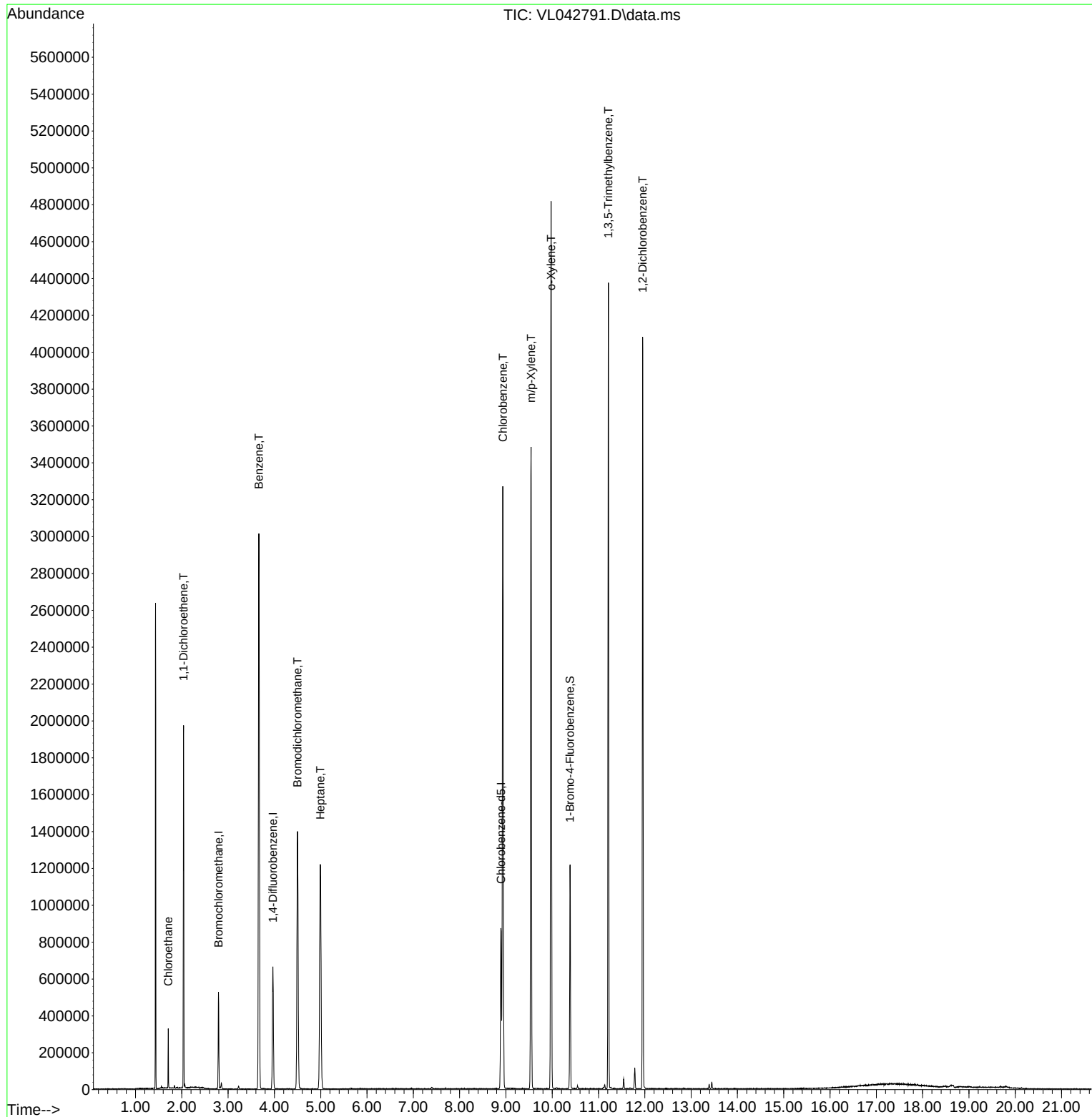
Internal Standards						
1) Bromochloromethane	2.794	49	141472	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	391365	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	346534	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	293791	10.705	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.100%
Target Compounds						
					Qvalue	
7) Chloroethane	1.709	64	86336	29.887	ppbv	99
10) Heptane	4.991	43	566179	23.711	ppbv	98
18) 1,1-Dichloroethene	2.039	96	258488	39.044	ppbv	94
36) Benzene	3.664	78	1865504	50.295	ppbv	98
42) Bromodichloromethane	4.499	83	846413	29.087	ppbv	96
57) Chlorobenzene	8.933	112	1308615	39.019	ppbv	97
59) m/p-Xylene	9.542	91	1577519	36.070	ppbv	100
60) o-Xylene	9.976	91	2173699	49.739	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	1577511	36.711	ppbv	97
77) 1,2-Dichlorobenzene	11.953	146	966653	29.926	ppbv	99

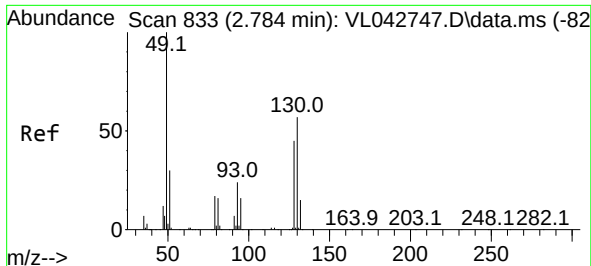
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042791.D
Acq On : 31 Jul 2025 12:03
Operator : SY/MD
Sample : Q2727-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

Quant Time: Aug 01 01:14:08 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

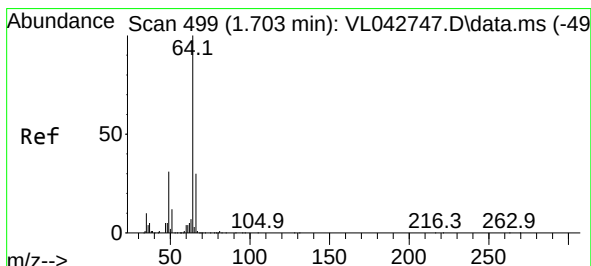
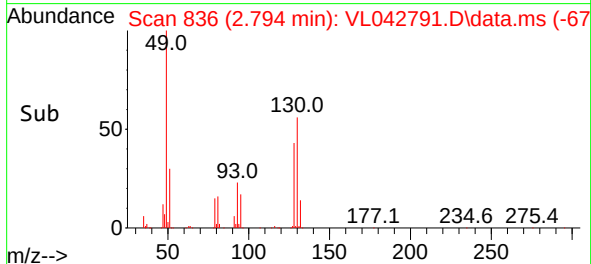
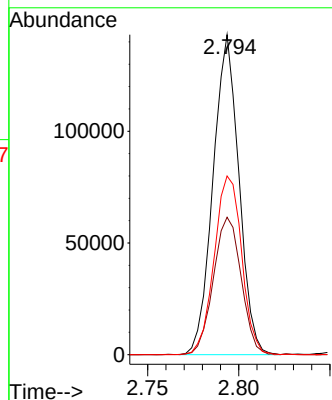
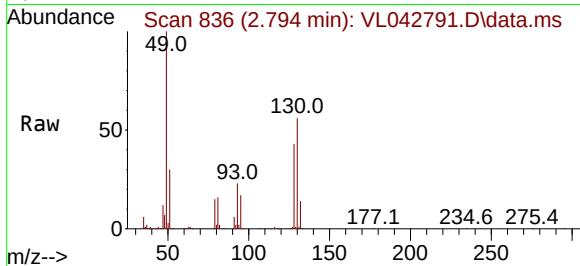




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL042791.D
 Acq: 31 Jul 2025 12:03

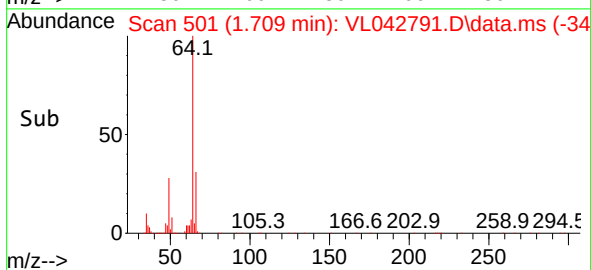
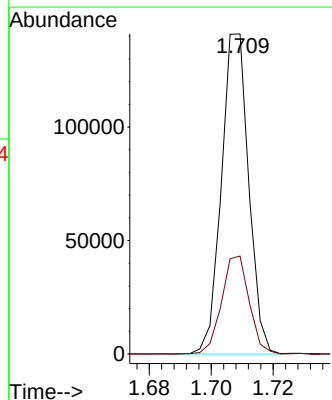
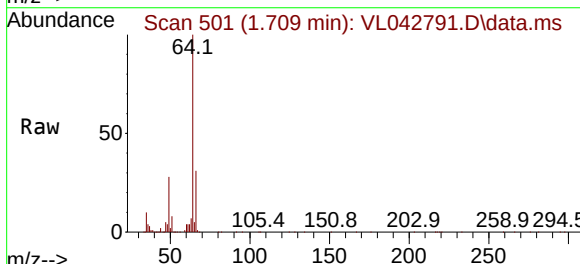
Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100

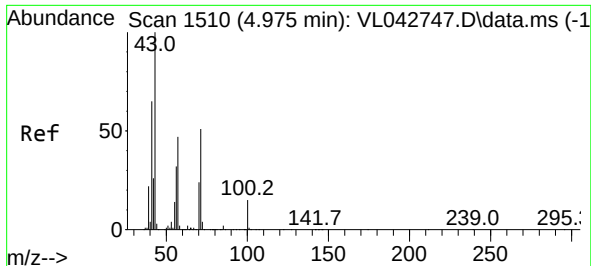
Tgt Ion: 49 Resp: 141472
 Ion Ratio Lower Upper
 49 100
 128 46.2 23.6 71.0
 130 59.3 30.3 90.8



#7
 Chloroethane
 Concen: 29.887 ppbv
 RT: 1.709 min Scan# 501
 Delta R.T. 0.007 min
 Lab File: VL042791.D
 Acq: 31 Jul 2025 12:03

Tgt Ion: 64 Resp: 86336
 Ion Ratio Lower Upper
 64 100
 66 30.6 24.1 36.1

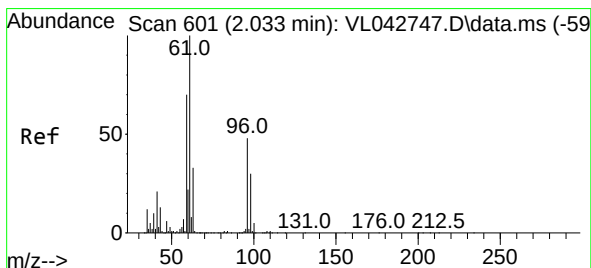
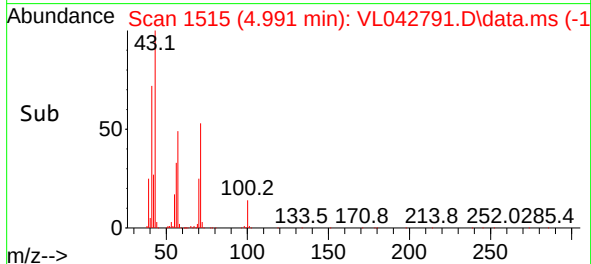
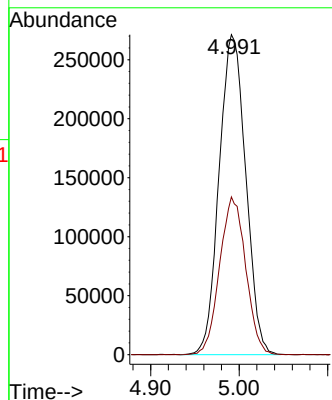
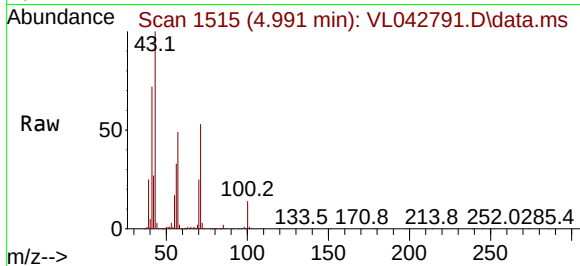




#10
Heptane
Concen: 23.711 ppbv
RT: 4.991 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

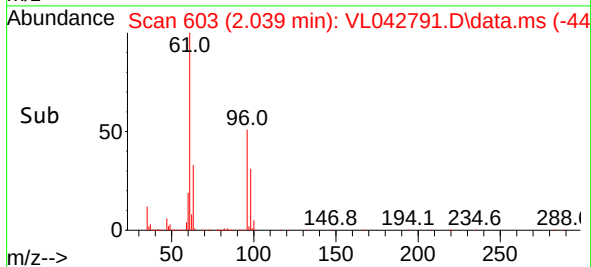
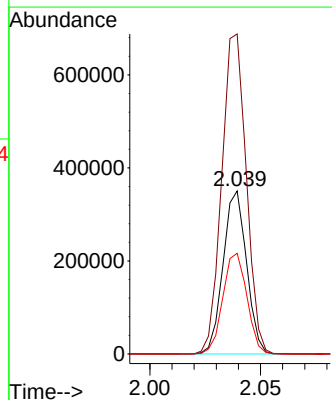
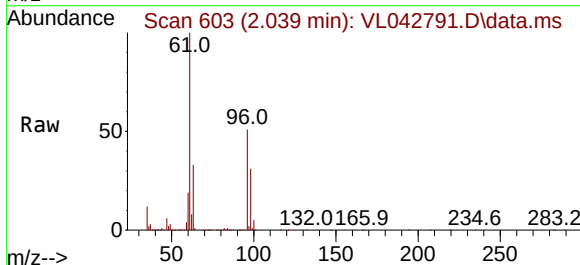
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

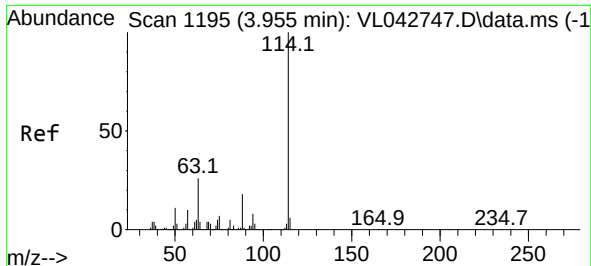
Tgt Ion: 43 Resp: 566179
Ion Ratio Lower Upper
43 100
57 48.3 39.9 59.9



#18
1,1-Dichloroethene
Concen: 39.044 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.007 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 96 Resp: 258488
Ion Ratio Lower Upper
96 100
61 196.3 165.8 248.6
98 61.7 49.9 74.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.013 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

AE073-1100

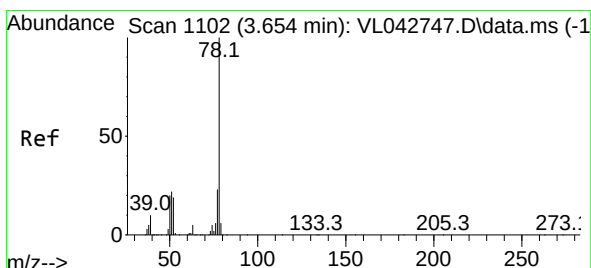
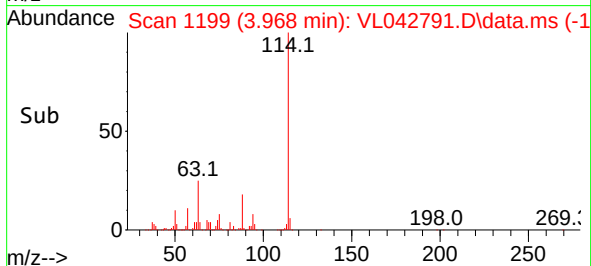
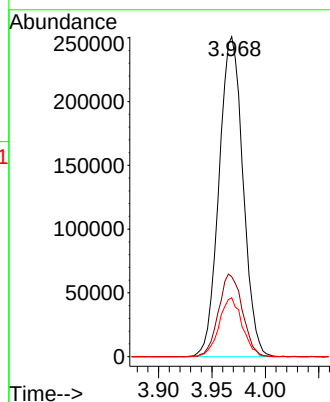
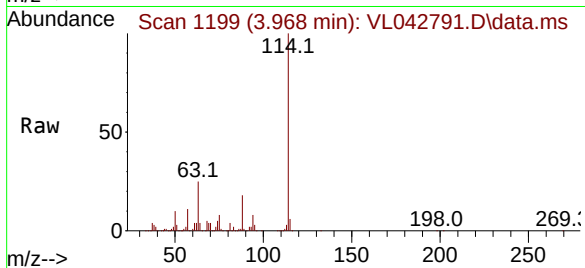
Tgt Ion:114 Resp: 391365

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 17.8 14.0 21.0



#36

Benzene

Concen: 50.295 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

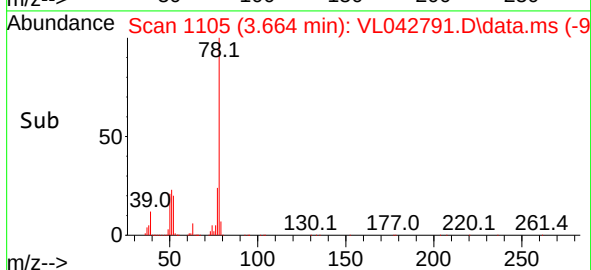
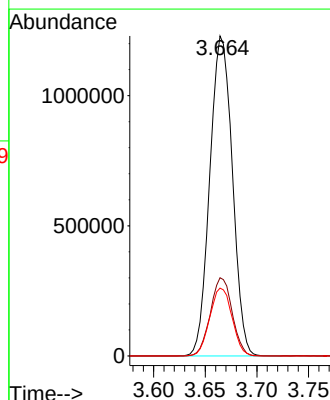
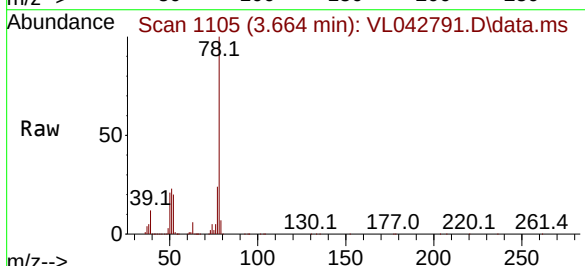
Tgt Ion: 78 Resp: 1865504

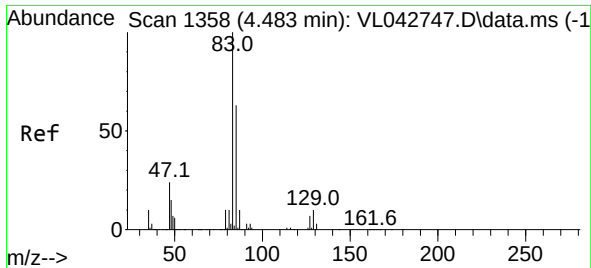
Ion Ratio Lower Upper

78 100

77 24.4 18.5 27.7

50 21.2 16.2 24.2

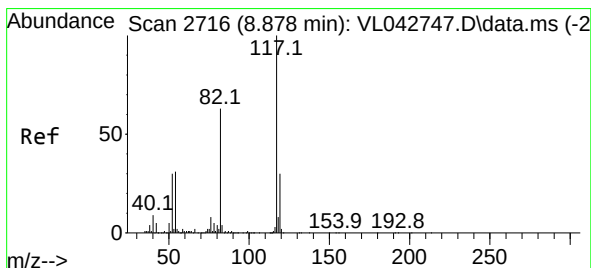
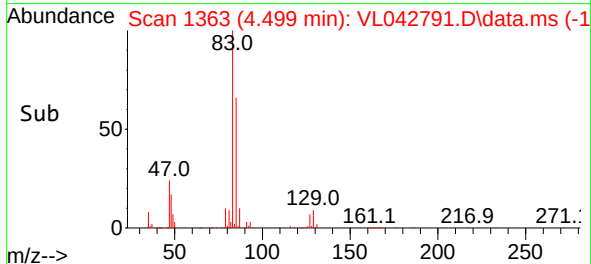
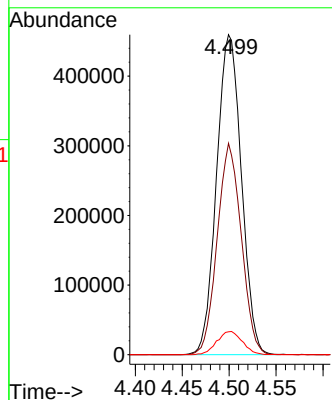
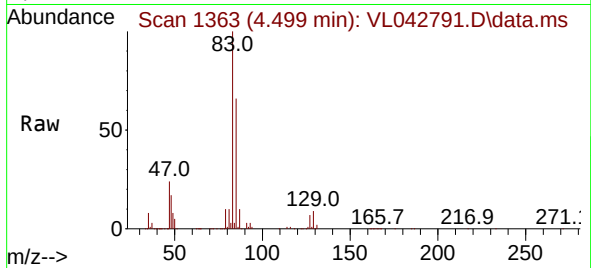




#42
Bromodichloromethane
Concen: 29.087 ppbv
RT: 4.499 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

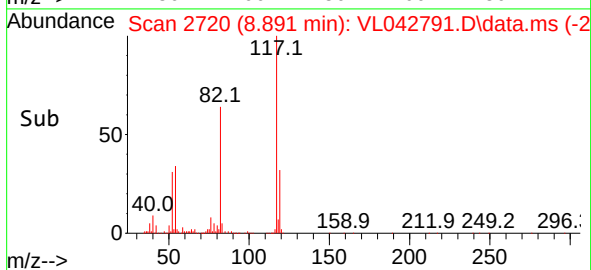
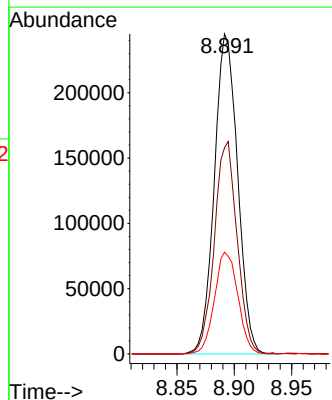
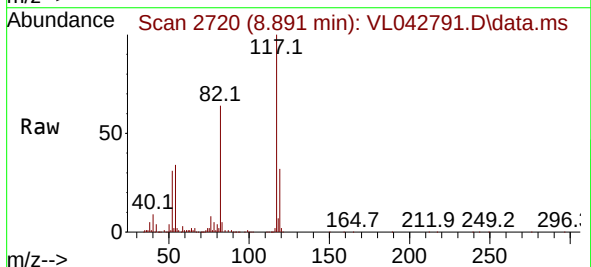
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

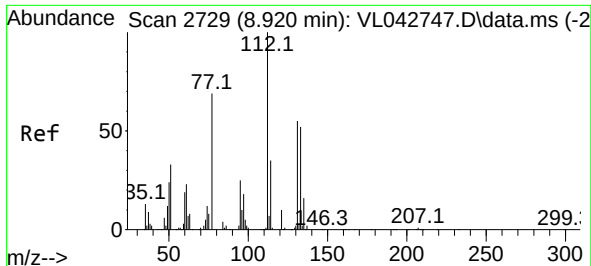
Tgt Ion: 83 Resp: 846413
Ion Ratio Lower Upper
83 100
85 66.0 50.2 75.4
127 7.2 5.4 8.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 117 Resp: 346534
Ion Ratio Lower Upper
117 100
82 64.9 53.3 79.9
119 32.0 25.8 38.6

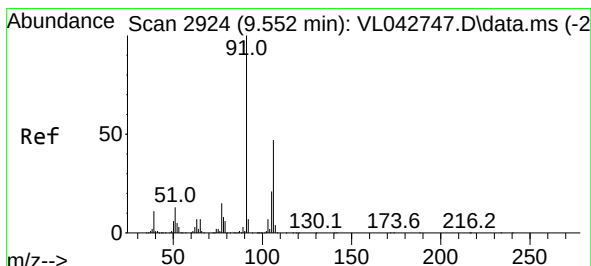
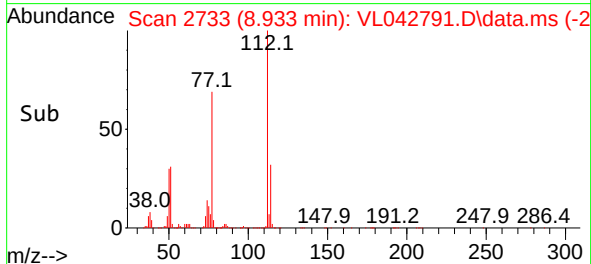
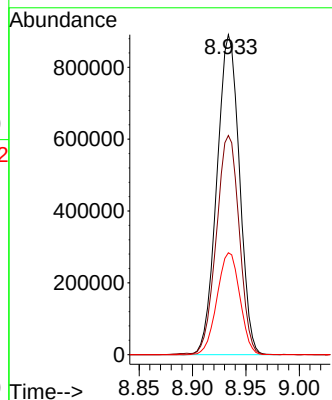
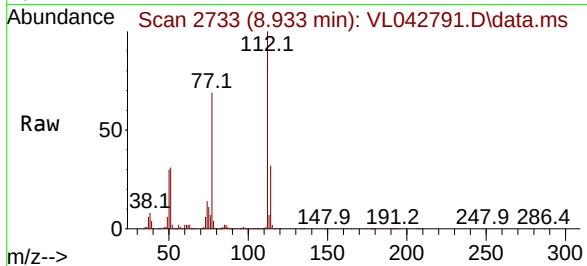




#57
Chlorobenzene
Concen: 39.019 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

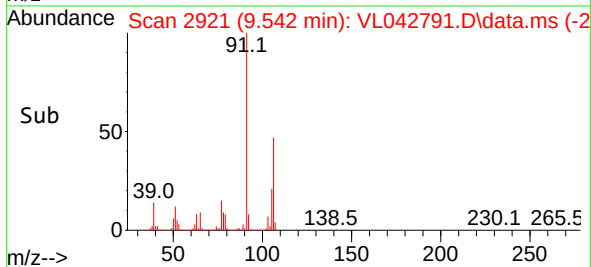
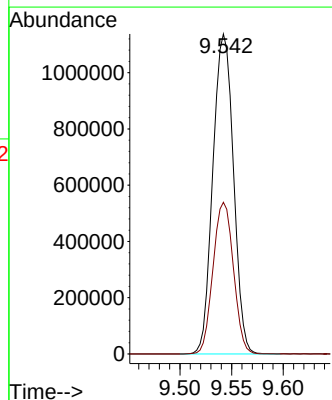
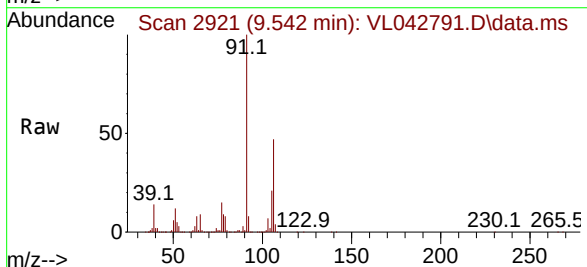
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

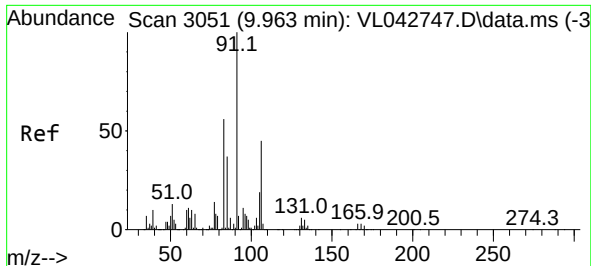
Tgt Ion:112 Resp: 1308615
Ion Ratio Lower Upper
112 100
77 68.4 56.4 84.6
114 31.8 31.2 38.2



#59
m/p-Xylene
Concen: 36.070 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 91 Resp: 1577519
Ion Ratio Lower Upper
91 100
106 46.9 37.4 56.2

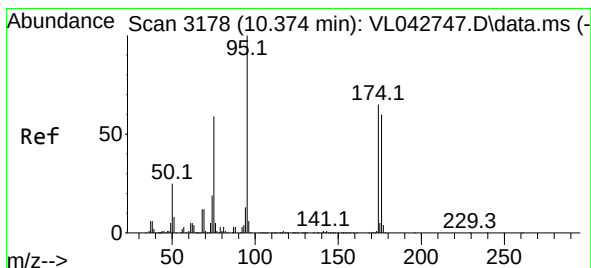
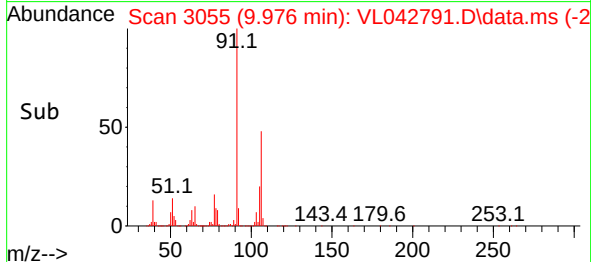
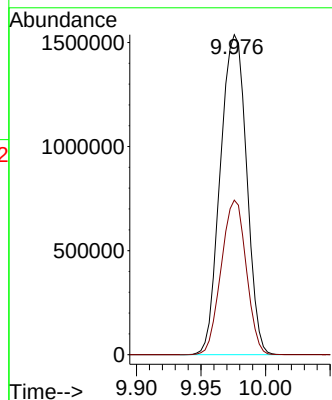
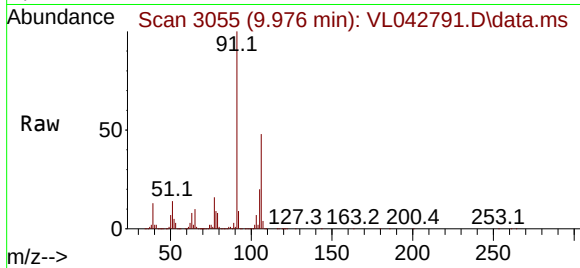




#60
o-Xylene
Concen: 49.739 ppbv
RT: 9.976 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

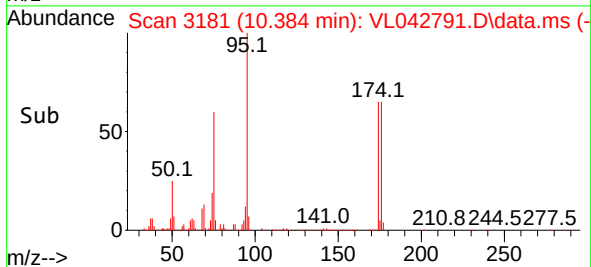
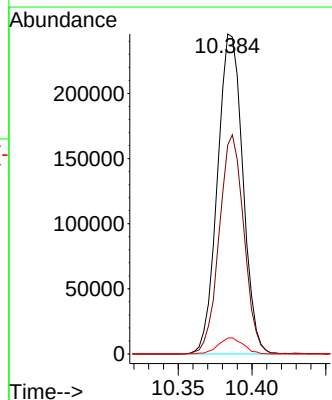
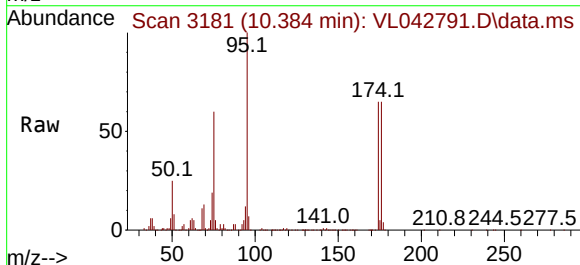
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

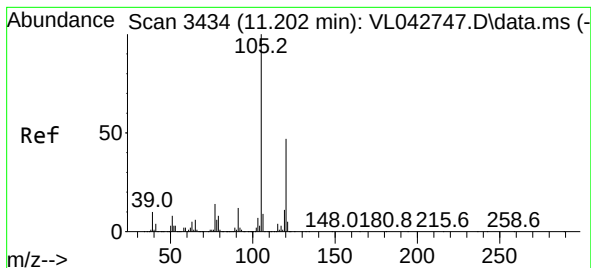
Tgt Ion: 91 Resp: 2173699
Ion Ratio Lower Upper
91 100
106 46.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.705 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.010 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 95 Resp: 293791
Ion Ratio Lower Upper
95 100
174 66.9 53.8 80.6
175 5.0 4.0 6.0





#73

1,3,5-Trimethylbenzene

Concen: 36.711 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

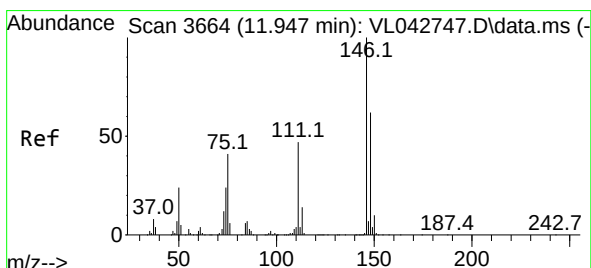
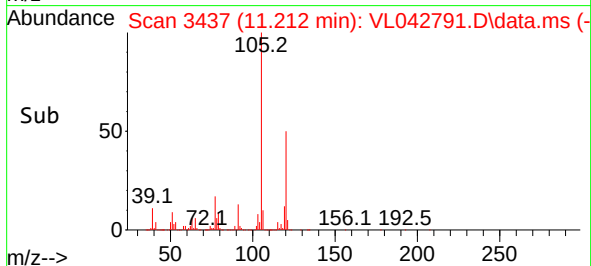
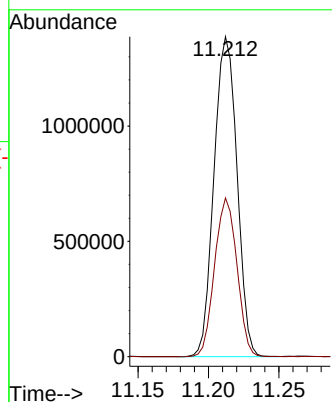
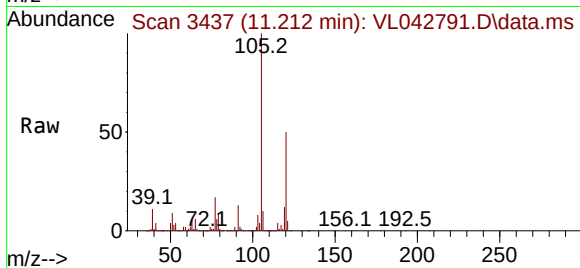
AE073-1100

Tgt Ion:105 Resp: 1577511

Ion Ratio Lower Upper

105 100

120 49.6 37.8 56.8



#77

1,2-Dichlorobenzene

Concen: 29.926 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.007 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

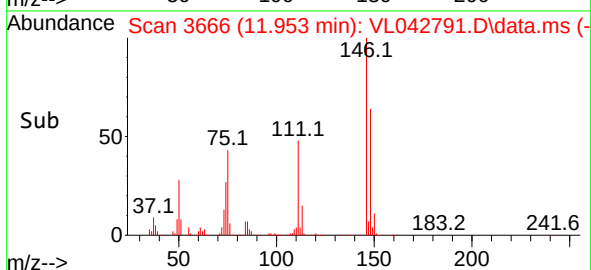
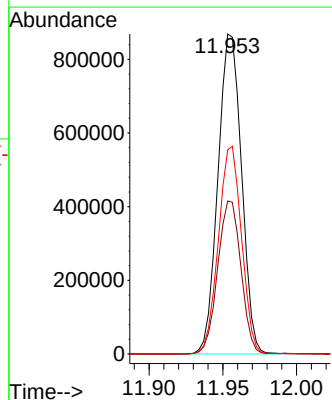
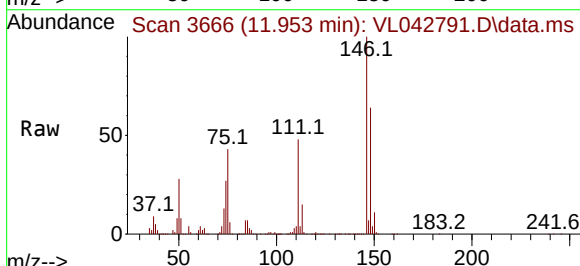
Tgt Ion:146 Resp: 966653

Ion Ratio Lower Upper

146 100

111 47.2 23.7 71.1

148 63.8 32.6 97.7



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042792.D	2		07/31/25 12:39	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.24	0.85	UD	0.85	3.54	ug/m3
75-71-8	Dichlorodifluoromethane	0.22	1.09	UD	1.09	4.94	ug/m3
64-17-5	Ethanol	0.64	1.21	UD	1.21	1.88	ug/m3
74-87-3	Chloromethane	0.20	0.41	UD	0.41	2.07	ug/m3
75-01-4	Vinyl Chloride	0.050	0.13	UD	0.13	0.15	ug/m3
141-78-6	Ethyl Acetate	0.24	0.95	UD	0.95	3.97	ug/m3
74-83-9	Bromomethane	0.15	0.58	UD	0.58	3.88	ug/m3
75-00-3	Chloroethane	29.1	76.8	D	0.79	2.64	ug/m3
109-99-9	Tetrahydrofuran	0.16	0.47	UD	0.47	2.95	ug/m3
75-69-4	Trichlorofluoromethane	0.34	1.91	UD	1.91	5.62	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	UD	2.15	7.66	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	UD	2.10	6.99	ug/m3
593-60-2	Bromoethene	0.40	1.75	UD	1.75	4.37	ug/m3
115-07-1	Propene	0.15	0.26	UD	0.26	1.72	ug/m3
75-65-0	tert-Butyl alcohol	0.32	0.97	UD	0.97	3.03	ug/m3
142-82-5	Heptane	23.3	95.5	D	1.39	4.10	ug/m3
67-63-0	Isopropyl Alcohol	0.46	1.13	UD	1.13	2.46	ug/m3
75-35-4	1,1-Dichloroethene	39.1	155	ED	1.19	3.96	ug/m3
67-64-1	Acetone	0.36	0.86	UD	0.86	2.38	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	UD	0.50	3.11	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	UD	1.66	3.61	ug/m3
75-09-2	Methylene Chloride	0.46	1.60	UD	1.60	3.47	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	UD	0.95	3.96	ug/m3
108-05-4	Vinyl Acetate	0.52	1.87	UD	1.87	3.60	ug/m3
75-34-3	1,1-Dichloroethane	0.26	1.05	UD	1.05	4.05	ug/m3
110-82-7	Cyclohexane	0.44	1.51	UD	1.51	3.44	ug/m3
78-93-3	2-Butanone	0.11	0.32	UD	0.32	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.050	0.31	UD	0.31	0.38	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	UD	0.79	3.96	ug/m3
67-66-3	Chloroform	0.19	0.93	UD	0.93	4.88	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	UD	0.16	0.33	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	UD	1.31	4.67	ug/m3
71-43-2	Benzene	54.7	175	ED	0.51	3.19	ug/m3
107-06-2	1,2-Dichloroethane	0.19	0.77	UD	0.77	4.05	ug/m3
79-01-6	Trichloroethene	0.050	0.27	UD	0.27	0.32	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042792.D	2		07/31/25 12:39	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.26	1.20	UD	1.20	4.62	ug/m3
75-27-4	Bromodichloromethane	29.8	200	D	0.87	6.70	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	UD	0.78	4.10	ug/m3
108-88-3	Toluene	0.32	1.21	UD	1.21	3.77	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	UD	1.36	4.54	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	UD	1.00	4.54	ug/m3
79-00-5	1,1,2-Trichloroethane	0.16	0.87	UD	0.87	5.46	ug/m3
591-78-6	2-Hexanone	0.22	0.90	UD	0.90	4.09	ug/m3
124-48-1	Dibromochloromethane	0.17	1.45	UD	1.45	8.52	ug/m3
106-93-4	1,2-Dibromoethane	0.17	1.31	UD	1.31	1.54	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	UD	0.20	0.41	ug/m3
108-90-7	Chlorobenzene	42.0	193	ED	0.69	4.61	ug/m3
100-41-4	Ethyl Benzene	0.38	1.65	UD	1.65	4.34	ug/m3
179601-23-1	m/p-Xylene	38.3	166	D	3.56	8.69	ug/m3
1330-20-7	Total Xylenes	94.5	410	D	5.39	13.0	ug/m3
95-47-6	o-Xylene	56.2	244	ED	1.82	4.34	ug/m3
100-42-5	Styrene	0.32	1.36	UD	1.36	4.26	ug/m3
75-25-2	Bromoform	0.10	1.03	UD	1.03	10.3	ug/m3
98-82-8	Isopropylbenzene	0.32	1.57	UD	1.57	4.92	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.41	ug/m3
95-49-8	2-Chlorotoluene	0.34	1.76	UD	1.76	5.18	ug/m3
108-67-8	1,3,5-Trimethylbenzene	39.2	193	ED	1.77	4.92	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	UD	1.77	4.92	ug/m3
541-73-1	1,3-Dichlorobenzene	0.11	0.66	UD	0.66	6.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.26	1.56	UD	1.56	6.01	ug/m3
95-50-1	1,2-Dichlorobenzene	31.1	187	ED	1.56	6.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	UD	3.12	7.42	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	UD	2.77	10.7	ug/m3
106-99-0	1,3-Butadiene	0.10	0.22	UD	0.22	2.21	ug/m3
91-20-3	Naphthalene	0.030	0.16	UD	0.16	1.05	ug/m3
622-96-8	4-Ethyltoluene	0.42	2.06	UD	2.06	4.92	ug/m3
110-54-3	Hexane	0.32	1.13	UD	1.13	3.52	ug/m3
107-05-1	Allyl Chloride	0.22	0.69	UD	0.69	3.13	ug/m3
123-91-1	1,4-Dioxane	0.44	1.59	UD	1.59	3.60	ug/m3
100-44-7	Benzyl Chloride	0.18	0.93	UDQ	0.93	5.18	ug/m3
80-62-6	Methyl Methacrylate	0.28	1.15	UD	1.15	4.09	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042792.D	2		07/31/25 12:39	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	137000		2.797			
540-36-3	1,4-Difluorobenzene	371000		3.968			
3114-55-4	Chlorobenzene-d5	325000		8.898			

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\VL073125\
 Data File : VL042792.D
 Acq On : 31 Jul 2025 12:39
 Operator : SY/MD
 Sample : Q2727-01DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100DL

Quant Time: Aug 01 01:14:44 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)

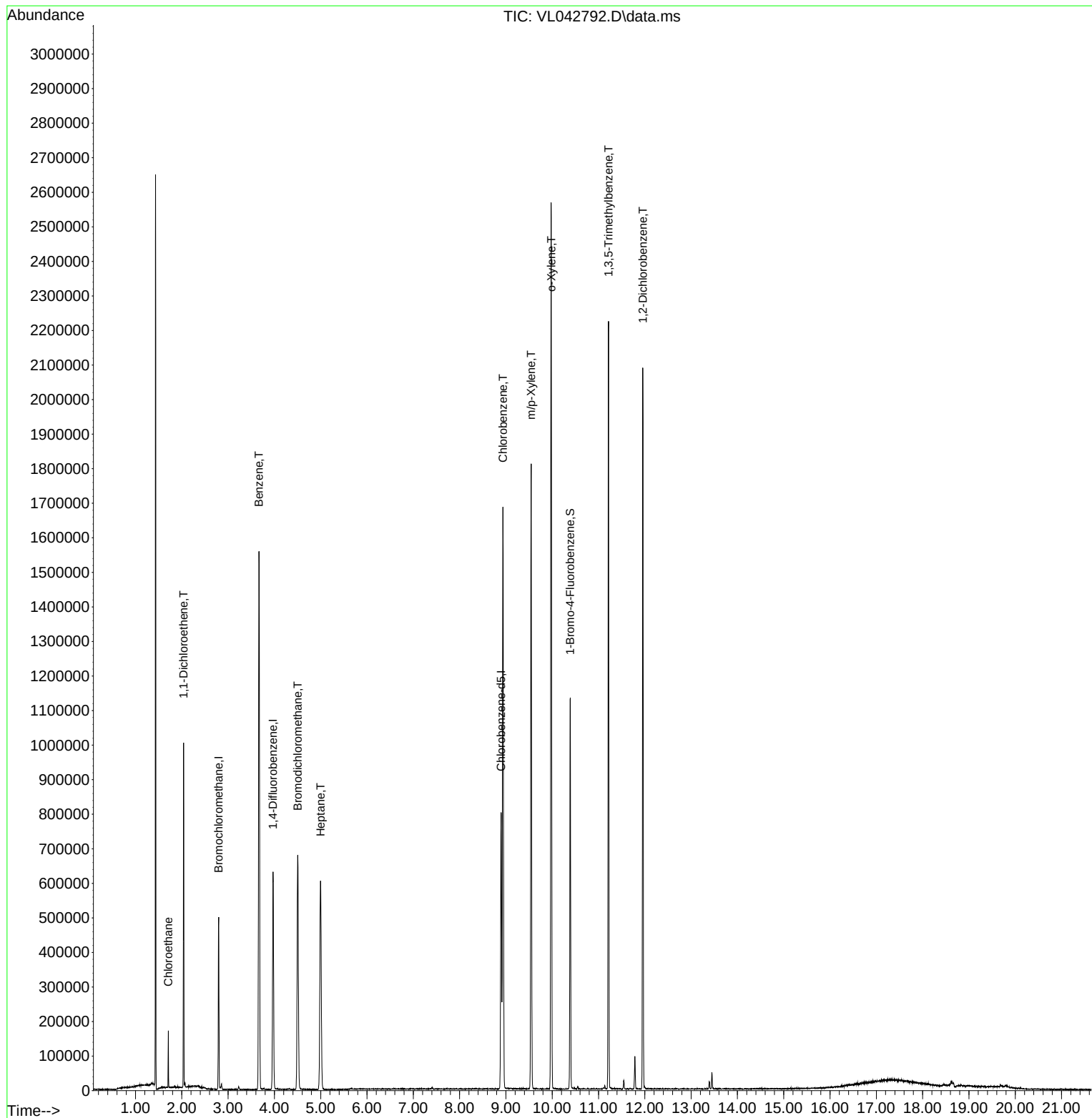
Internal Standards							
1) Bromochloromethane		2.797	49	136777	10.000	ppbv	0.01
33) 1,4-Difluorobenzene		3.968	114	371224	10.000	ppbv	0.01
55) Chlorobenzene-d5		8.898	117	324625	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.387	95	273294	10.631	ppbv	0.01
Spiked Amount		10.000	Range 65 - 135		Recovery	= 106.300%	
Target Compounds							
							Qvalue
7) Chloroethane		1.709	64	40627	14.547	ppbv	99
10) Heptane		4.994	43	268880	11.647	ppbv	97
18) 1,1-Dichloroethene		2.039	96	125059	19.538	ppbv	98
36) Benzene		3.667	78	961979	27.343	ppbv	99
42) Bromodichloromethane		4.506	83	411940	14.924	ppbv	98
57) Chlorobenzene		8.936	112	660376	21.020	ppbv	96
59) m/p-Xylene		9.545	91	785341	19.169	ppbv	98
60) o-Xylene		9.979	91	1150446	28.101	ppbv	100
73) 1,3,5-Trimethylbenzene		11.215	105	788778	19.595	ppbv	100
77) 1,2-Dichlorobenzene		11.956	146	471076	15.568	ppbv	99

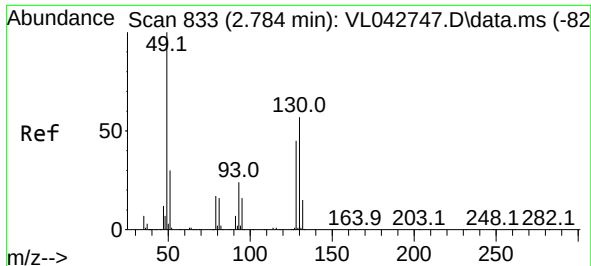
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042792.D
Acq On : 31 Jul 2025 12:39
Operator : SY/MD
Sample : Q2727-01DL 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

Quant Time: Aug 01 01:14:44 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

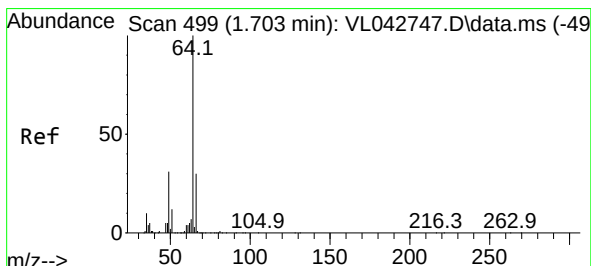
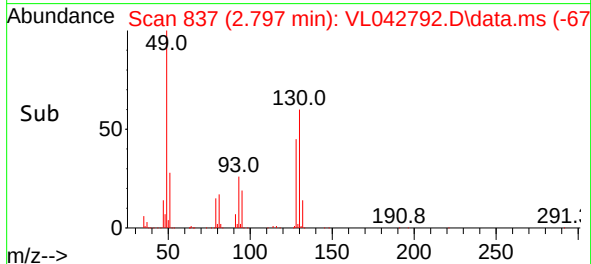
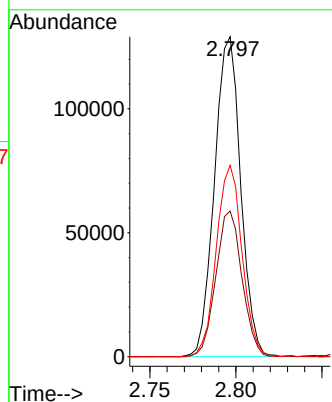
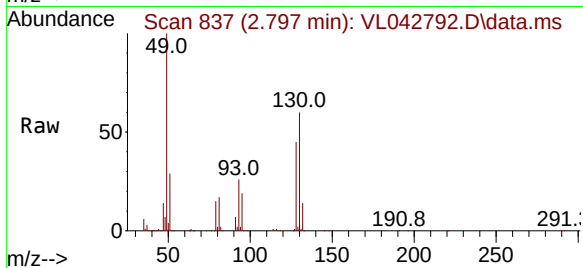




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

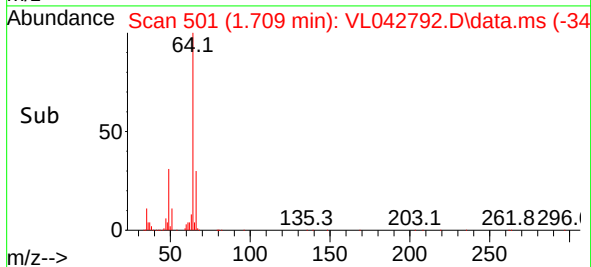
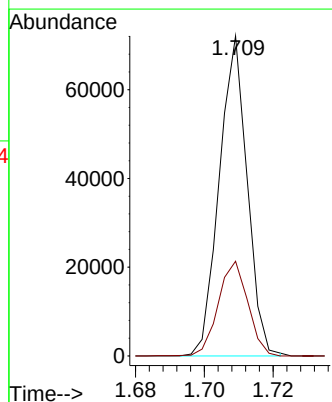
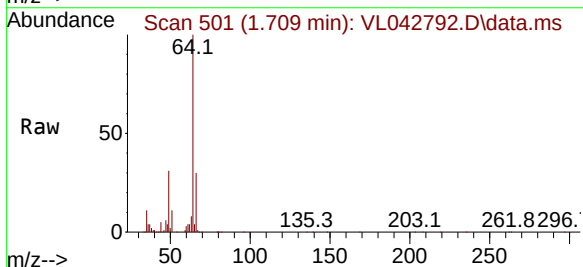
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

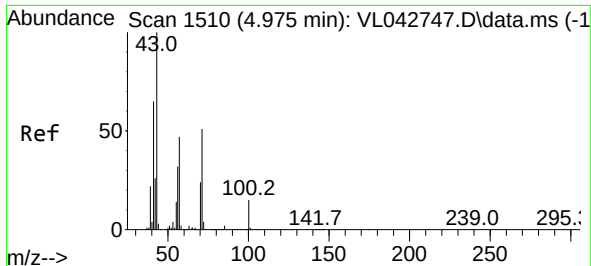
Tgt Ion: 49 Resp: 136777
Ion Ratio Lower Upper
49 100
128 45.5 23.6 71.0
130 58.8 30.3 90.8



#7
Chloroethane
Concen: 14.547 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 64 Resp: 40627
Ion Ratio Lower Upper
64 100
66 29.6 24.1 36.1

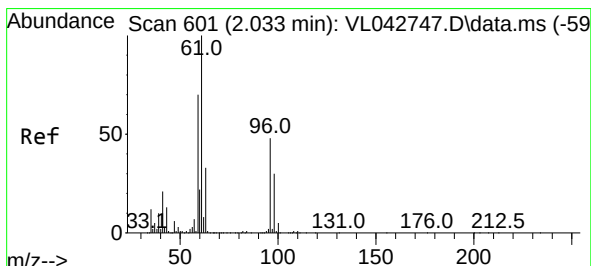
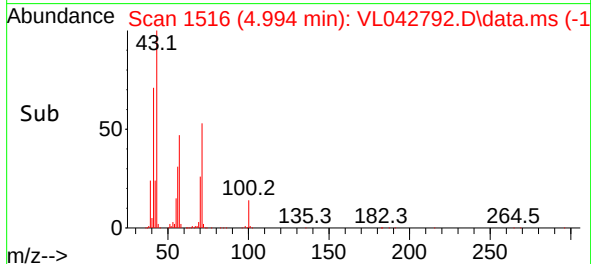
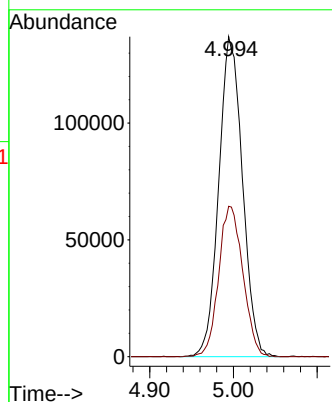
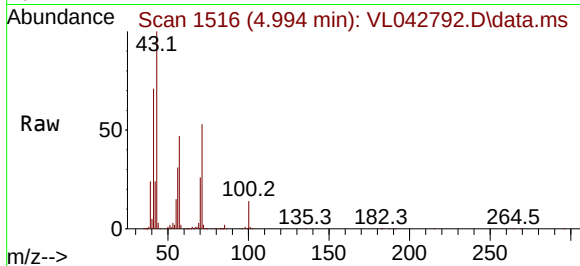




#10
Heptane
Concen: 11.647 ppbv
RT: 4.994 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

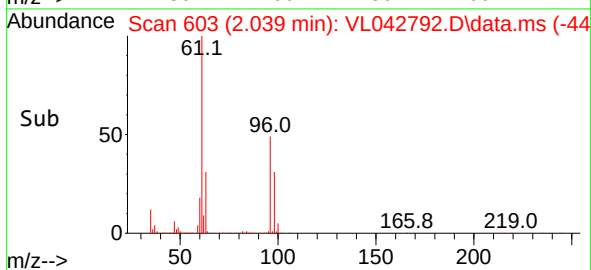
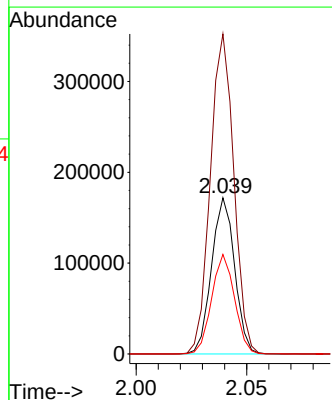
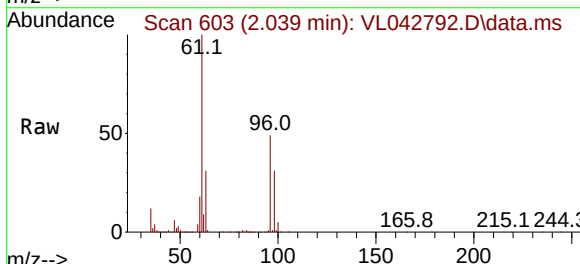
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

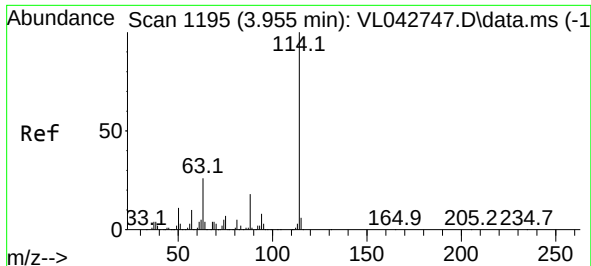
Tgt Ion: 43 Resp: 268880
Ion Ratio Lower Upper
43 100
57 48.0 39.9 59.9



#18
1,1-Dichloroethene
Concen: 19.538 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 96 Resp: 125059
Ion Ratio Lower Upper
96 100
61 204.8 165.8 248.6
98 63.7 49.9 74.9

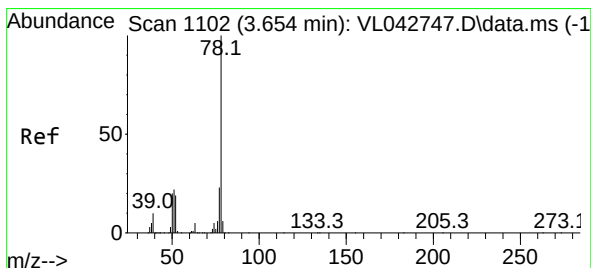
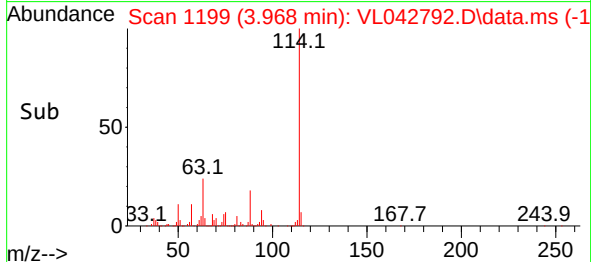
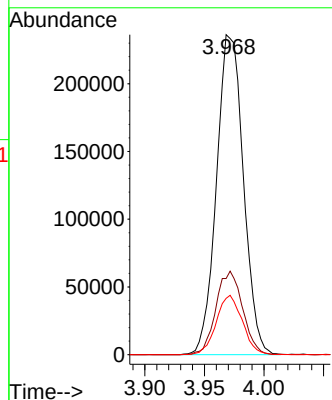
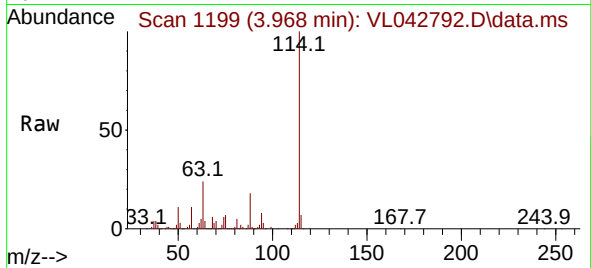




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1195
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

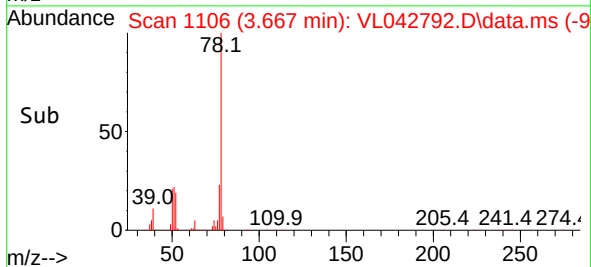
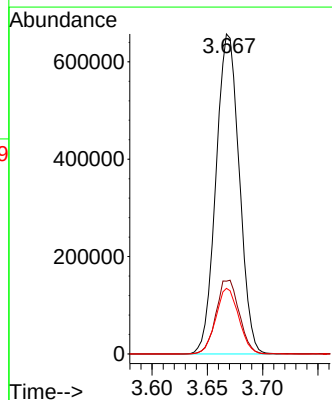
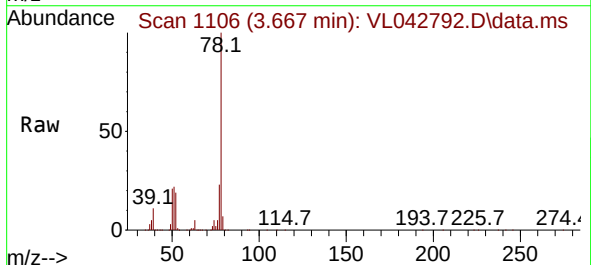
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

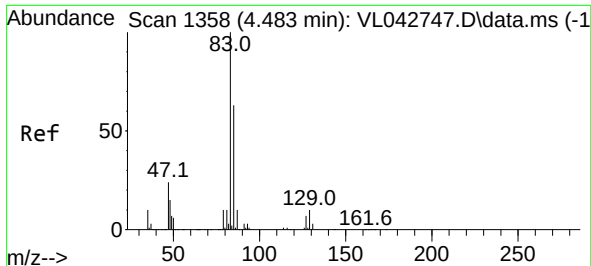
Tgt Ion:114 Resp: 371224
Ion Ratio Lower Upper
114 100
63 25.9 20.5 30.7
88 18.0 14.0 21.0



#36
Benzene
Concen: 27.343 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 78 Resp: 961979
Ion Ratio Lower Upper
78 100
77 22.8 18.5 27.7
50 20.5 16.2 24.2

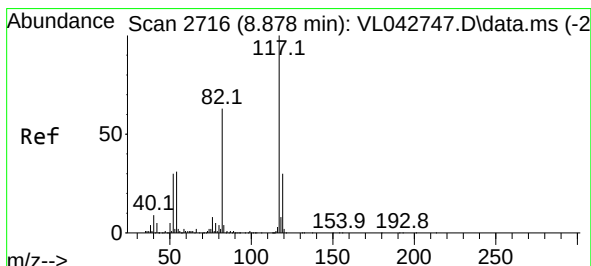
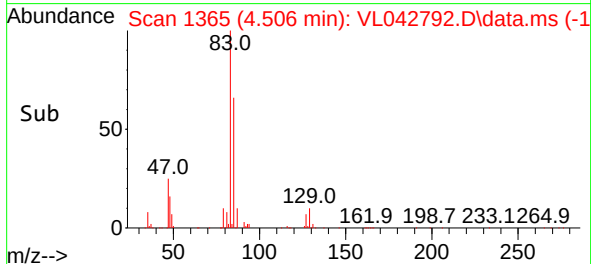
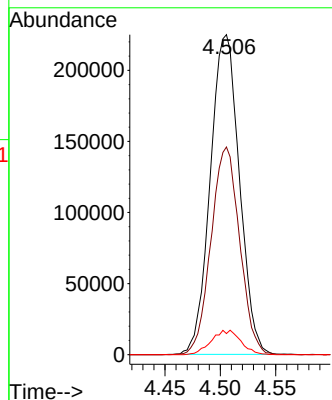
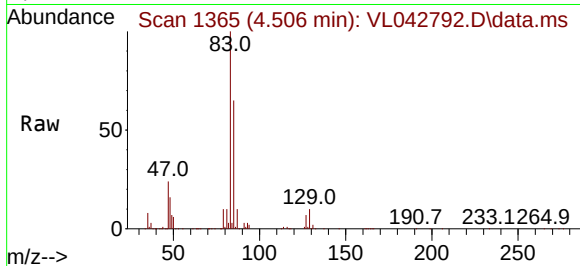




#42
Bromodichloromethane
Concen: 14.924 ppbv
RT: 4.506 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

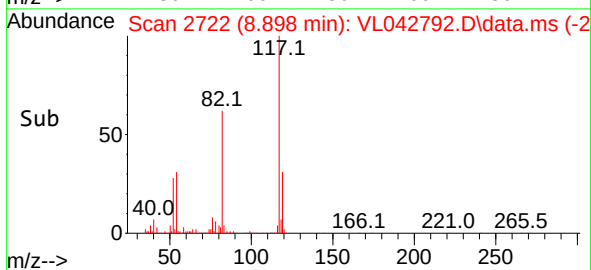
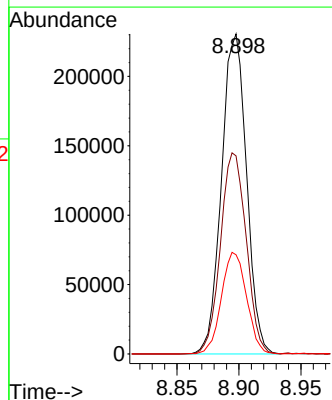
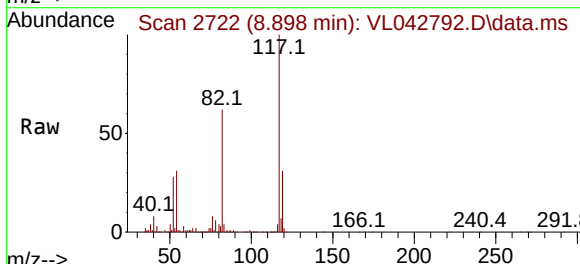
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

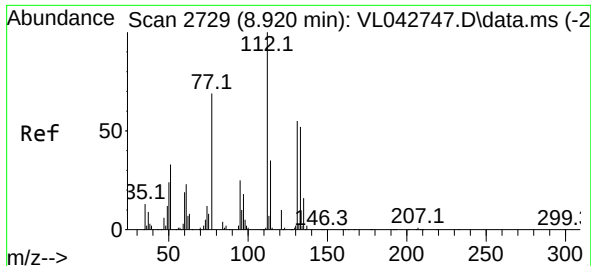
Tgt Ion: 83 Resp: 411940
Ion Ratio Lower Upper
83 100
85 64.8 50.2 75.4
127 6.6 5.4 8.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.019 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 117 Resp: 324625
Ion Ratio Lower Upper
117 100
82 64.8 53.3 79.9
119 32.1 25.8 38.6

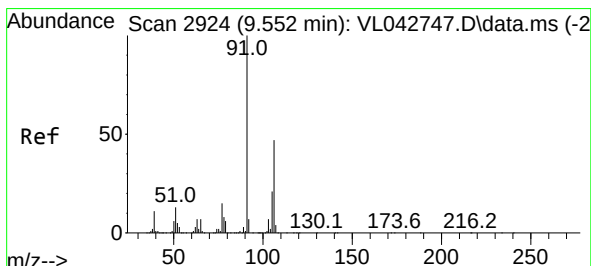
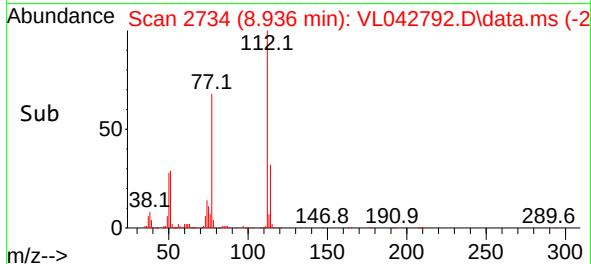
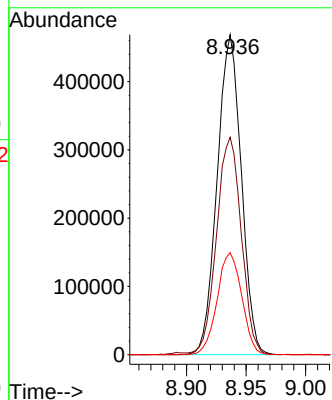
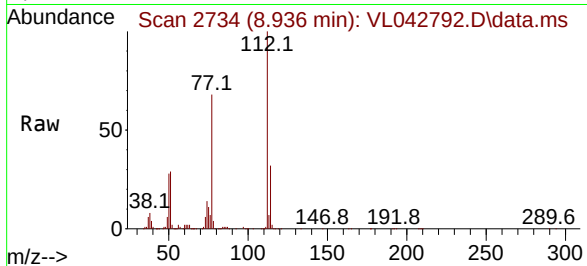




#57
Chlorobenzene
Concen: 21.020 ppbv
RT: 8.936 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

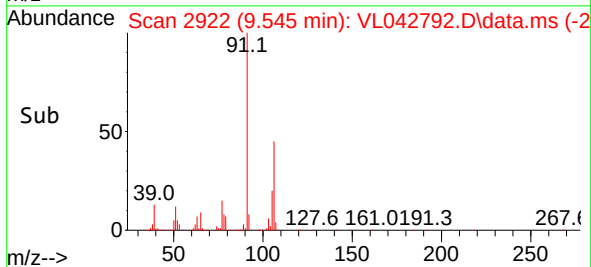
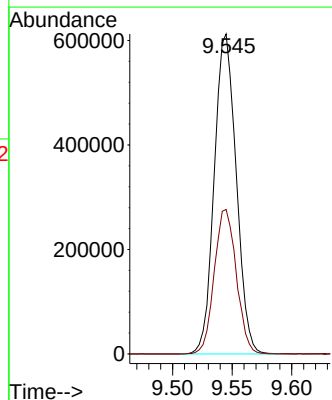
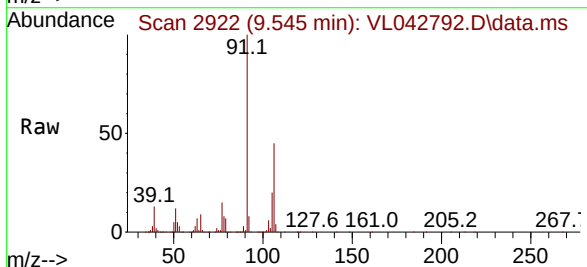
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

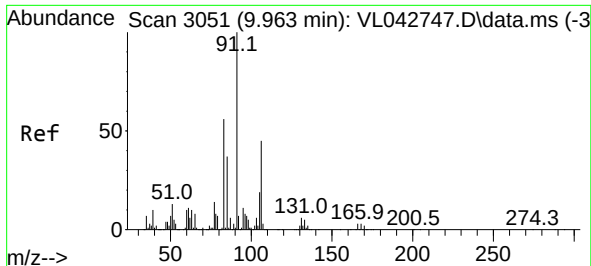
Tgt Ion:112 Resp: 660376
Ion Ratio Lower Upper
112 100
77 67.9 56.4 84.6
114 31.9 31.2 38.2



#59
m/p-Xylene
Concen: 19.169 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. -0.007 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 91 Resp: 785341
Ion Ratio Lower Upper
91 100
106 45.3 37.4 56.2

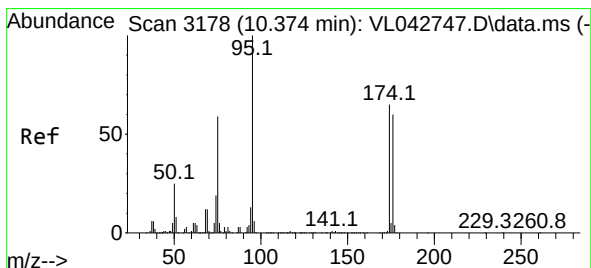
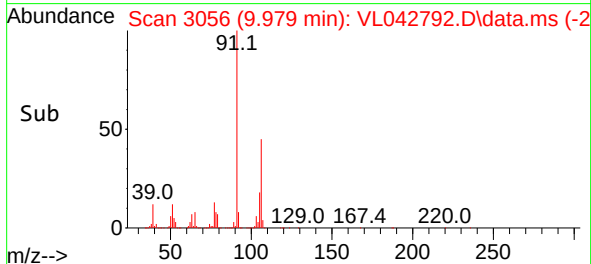
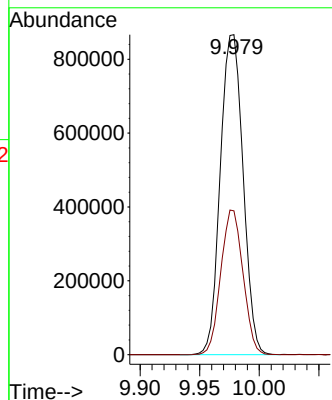
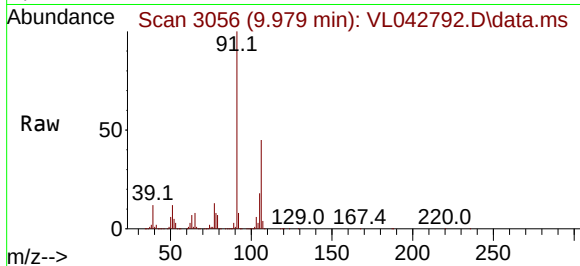




#60
o-Xylene
Concen: 28.101 ppbv
RT: 9.979 min Scan# 3051
Delta R.T. 0.016 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

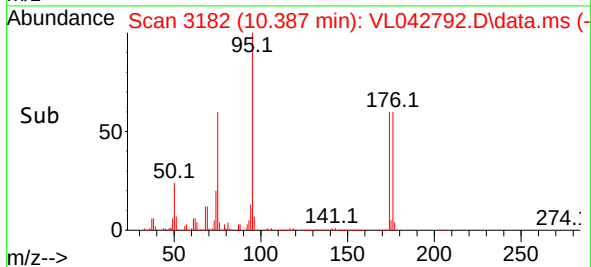
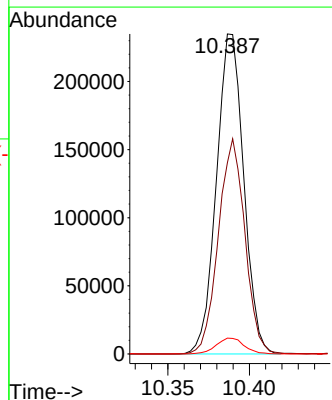
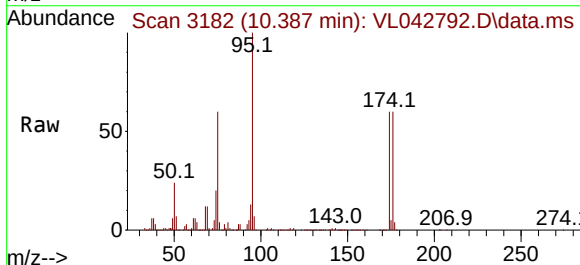
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

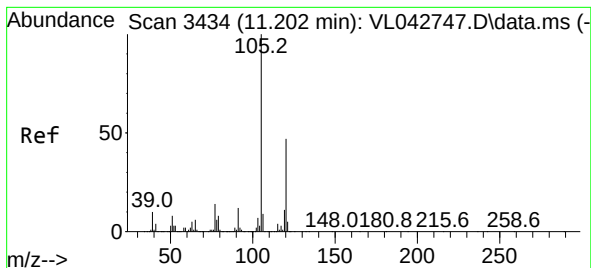
Tgt Ion: 91 Resp: 1150446
Ion Ratio Lower Upper
91 100
106 44.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.631 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 95 Resp: 273294
Ion Ratio Lower Upper
95 100
174 65.4 53.8 80.6
175 5.1 4.0 6.0





#73

1,3,5-Trimethylbenzene

Concen: 19.595 ppbv

RT: 11.215 min Scan# 3434

Delta R.T. 0.013 min

Lab File: VL042792.D

Acq: 31 Jul 2025 12:39

Instrument :

MSVOA_L

ClientSampleId :

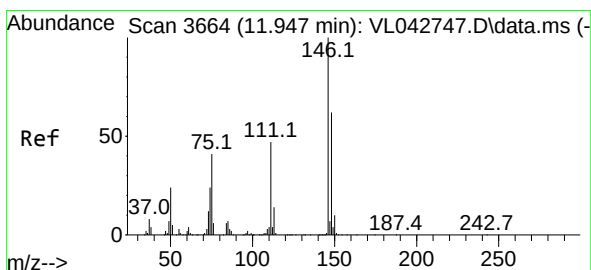
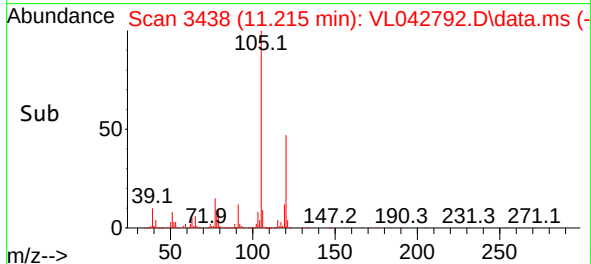
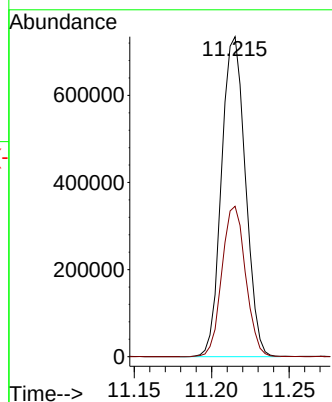
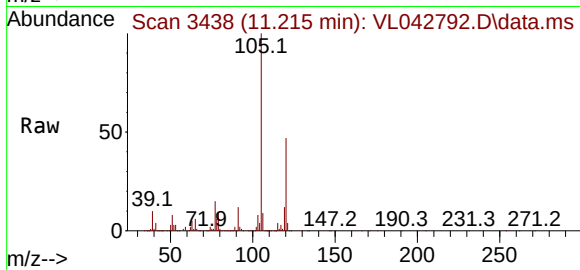
AE073-1100DL

Tgt Ion:105 Resp: 788778

Ion Ratio Lower Upper

105 100

120 47.0 37.8 56.8



#77

1,2-Dichlorobenzene

Concen: 15.568 ppbv

RT: 11.956 min Scan# 3667

Delta R.T. 0.010 min

Lab File: VL042792.D

Acq: 31 Jul 2025 12:39

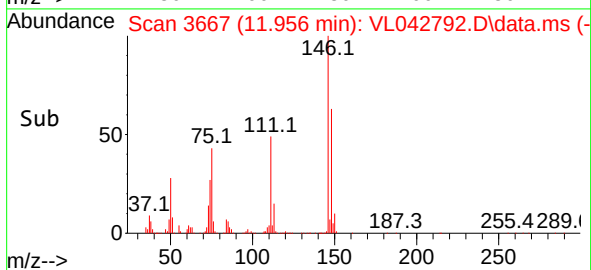
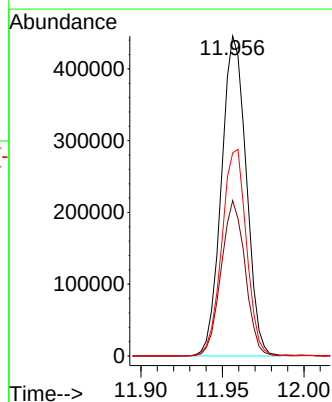
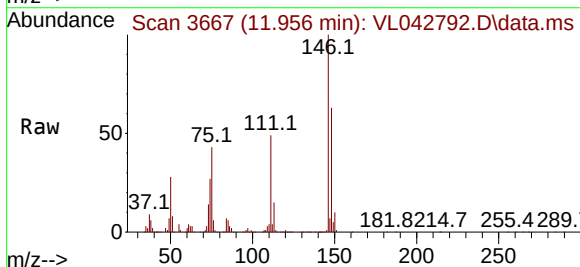
Tgt Ion:146 Resp: 471076

Ion Ratio Lower Upper

146 100

111 47.1 23.7 71.1

148 64.3 32.6 97.7



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL2	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042793.D	4		07/31/25 13:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.48	1.70	UD	1.70	7.07	ug/m3
75-71-8	Dichlorodifluoromethane	0.44	2.18	UD	2.18	9.89	ug/m3
64-17-5	Ethanol	1.30	2.45	UD	2.45	3.77	ug/m3
74-87-3	Chloromethane	0.39	0.81	UD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.10	0.26	UD	0.26	0.31	ug/m3
141-78-6	Ethyl Acetate	0.48	1.90	UD	1.90	7.93	ug/m3
74-83-9	Bromomethane	0.31	1.20	UD	1.20	7.77	ug/m3
75-00-3	Chloroethane	30.7	81.0	D	1.58	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.32	0.94	UD	0.94	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.68	3.82	UD	3.82	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.56	4.29	UD	4.29	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.60	4.19	UD	4.19	14.0	ug/m3
593-60-2	Bromoethene	0.80	3.50	UD	3.50	8.74	ug/m3
115-07-1	Propene	0.31	0.53	UD	0.53	3.44	ug/m3
75-65-0	tert-Butyl alcohol	0.64	1.94	UD	1.94	6.06	ug/m3
142-82-5	Heptane	22.5	92.2	D	2.79	8.20	ug/m3
67-63-0	Isopropyl Alcohol	0.92	2.26	UD	2.26	4.92	ug/m3
75-35-4	1,1-Dichloroethene	40.2	159	D	2.38	7.93	ug/m3
67-64-1	Acetone	0.72	1.71	UD	1.71	4.75	ug/m3
75-15-0	Carbon Disulfide	0.32	1.00	UD	1.00	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.92	3.32	UD	3.32	7.21	ug/m3
75-09-2	Methylene Chloride	0.92	3.20	UD	3.20	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.48	1.90	UD	1.90	7.93	ug/m3
108-05-4	Vinyl Acetate	1.00	3.60	UD	3.60	7.20	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	UD	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.22	0.65	UD	0.65	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.10	0.63	UD	0.63	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	UD	1.59	7.93	ug/m3
67-66-3	Chloroform	0.38	1.86	UD	1.86	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.060	0.33	UD	0.33	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	UD	2.62	9.34	ug/m3
71-43-2	Benzene	56.0	179	D	1.02	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.37	1.50	UD	1.50	8.09	ug/m3
79-01-6	Trichloroethene	0.10	0.54	UD	0.54	0.64	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL2	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042793.D	4		07/31/25 13:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.52	2.40	UD	2.40	9.24	ug/m3
75-27-4	Bromodichloromethane	30.5	204	D	1.67	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.39	1.60	UD	1.60	8.20	ug/m3
108-88-3	Toluene	0.64	2.41	UD	2.41	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.44	2.00	UD	2.00	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.32	1.75	UD	1.75	10.9	ug/m3
591-78-6	2-Hexanone	0.44	1.80	UD	1.80	8.18	ug/m3
124-48-1	Dibromochloromethane	0.34	2.90	UD	2.90	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.34	2.61	UD	2.61	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	44.1	203	D	1.43	9.21	ug/m3
100-41-4	Ethyl Benzene	0.76	3.30	UD	3.30	8.69	ug/m3
179601-23-1	m/p-Xylene	37.7	164	D	6.95	17.4	ug/m3
1330-20-7	Total Xylenes	95.7	416	D	10.6	26.1	ug/m3
95-47-6	o-Xylene	58.0	252	D	3.65	8.69	ug/m3
100-42-5	Styrene	0.64	2.72	UD	2.72	8.52	ug/m3
75-25-2	Bromoform	0.19	1.96	UD	1.96	20.7	ug/m3
98-82-8	Isopropylbenzene	0.64	3.15	UD	3.15	9.83	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.070	0.48	UD	0.48	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.68	3.52	UD	3.52	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	38.5	189	D	3.54	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	UD	3.54	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.22	1.32	UD	1.32	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.52	3.13	UD	3.13	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	31.2	188	D	3.13	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.84	6.24	UD	6.24	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.52	5.55	UD	5.55	21.3	ug/m3
106-99-0	1,3-Butadiene	0.20	0.44	UD	0.44	4.42	ug/m3
91-20-3	Naphthalene	0.050	0.26	UD	0.26	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.84	4.13	UD	4.13	9.83	ug/m3
110-54-3	Hexane	0.64	2.26	UD	2.26	7.05	ug/m3
107-05-1	Allyl Chloride	0.44	1.38	UD	1.38	6.26	ug/m3
123-91-1	1,4-Dioxane	0.88	3.17	UD	3.17	7.21	ug/m3
100-44-7	Benzyl Chloride	0.36	1.86	UDQ	1.86	10.4	ug/m3
80-62-6	Methyl Methacrylate	0.56	2.29	UD	2.29	8.19	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL2	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042793.D	4		07/31/25 13:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	135000		2.797			
540-36-3	1,4-Difluorobenzene	368000		3.972			
3114-55-4	Chlorobenzene-d5	321000		8.895			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042793.D
 Acq On : 31 Jul 2025 13:15
 Operator : SY/MD
 Sample : Q2727-01DL2 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100DL2

Quant Time: Aug 01 01:15:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

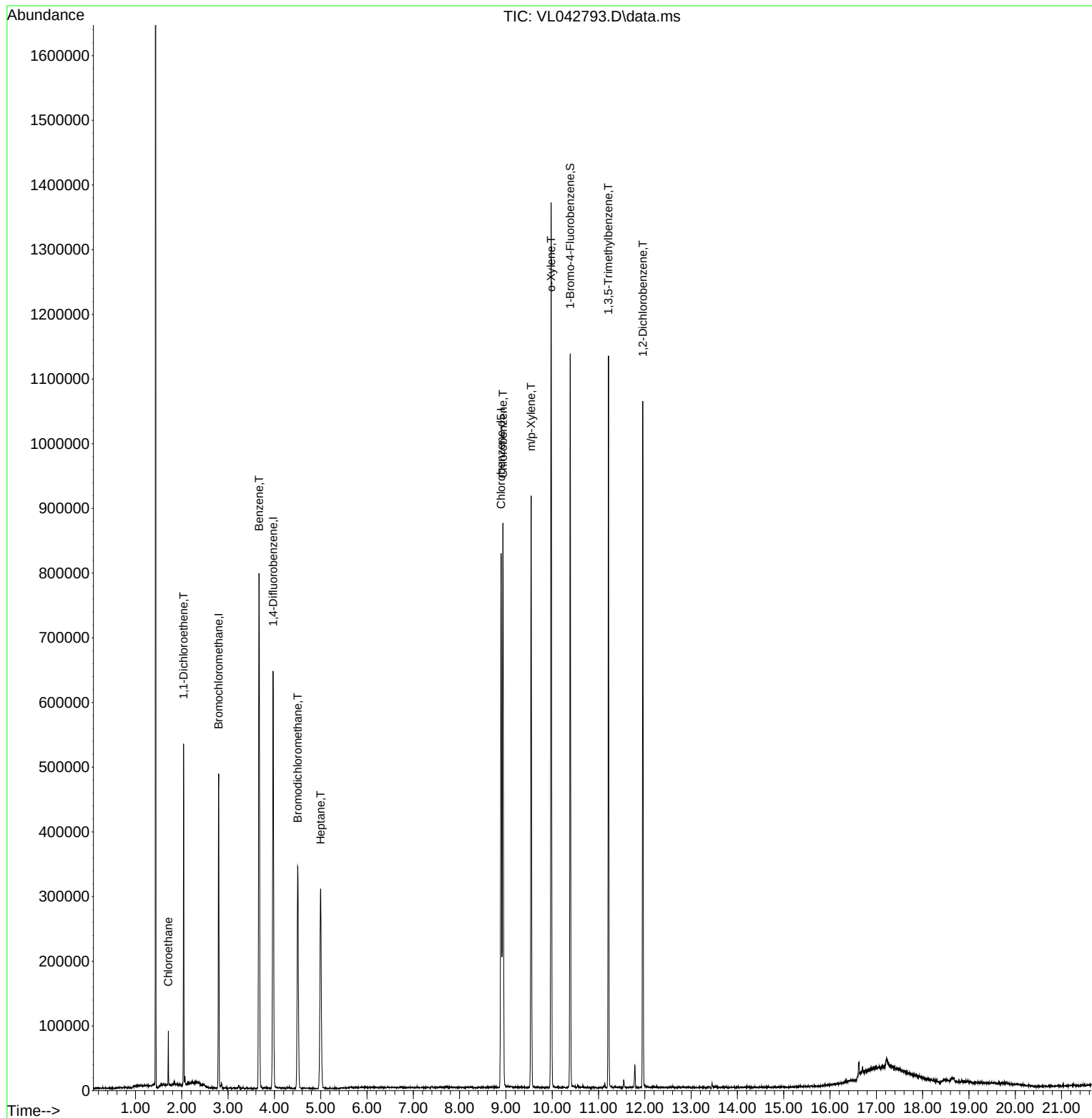
Internal Standards							
1) Bromochloromethane		2.797	49	135095	10.000	ppbv	0.01
33) 1,4-Difluorobenzene		3.972	114	368077	10.000	ppbv	0.02
55) Chlorobenzene-d5		8.895	117	321275	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.390	95	267370	10.509	ppbv	0.02
Spiked Amount		10.000	Range	65 - 135	Recovery	= 105.100%	
Target Compounds							
							Qvalue
7) Chloroethane		1.709	64	21161	7.671	ppbv	97
10) Heptane		4.998	43	128422	5.632	ppbv	97
18) 1,1-Dichloroethene		2.040	96	63505	10.045	ppbv	92
36) Benzene		3.671	78	488205	13.995	ppbv	98
42) Bromodichloromethane		4.506	83	208761	7.628	ppbv	98
57) Chlorobenzene		8.937	112	343073	11.034	ppbv	94
59) m/p-Xylene		9.545	91	382502	9.433	ppbv	97
60) o-Xylene		9.976	91	587689	14.505	ppbv	99
73) 1,3,5-Trimethylbenzene		11.212	105	383936	9.637	ppbv	97
77) 1,2-Dichlorobenzene		11.957	146	233554	7.799	ppbv	98

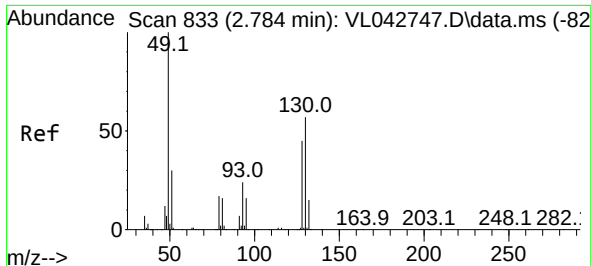
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042793.D
Acq On : 31 Jul 2025 13:15
Operator : SY/MD
Sample : Q2727-01DL2 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL2

Quant Time: Aug 01 01:15:16 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

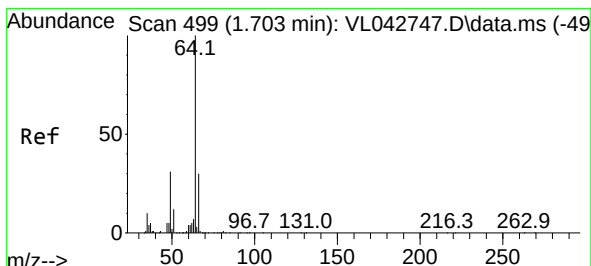
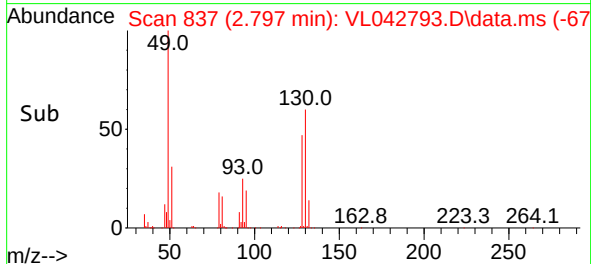
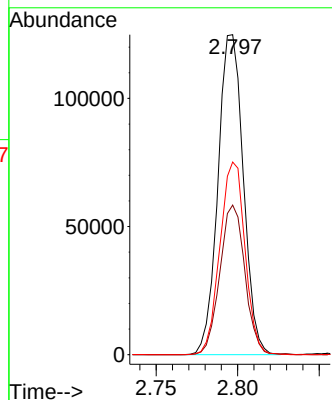
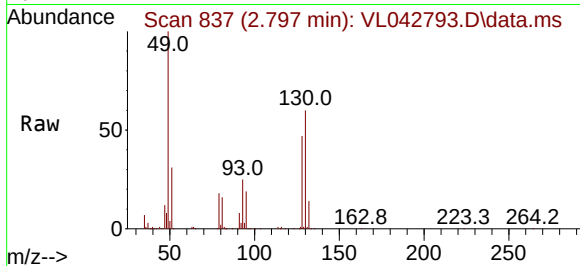




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

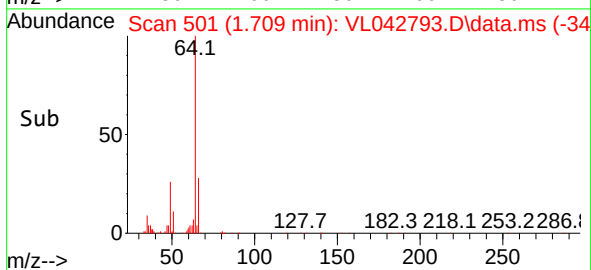
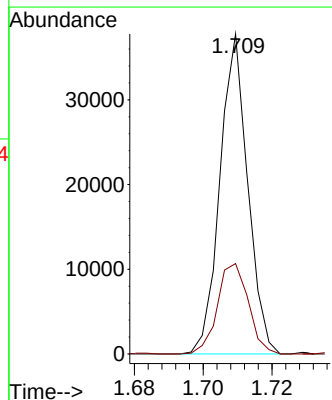
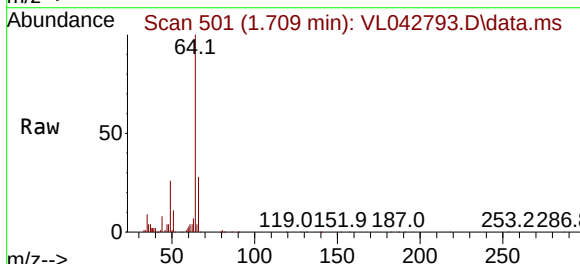
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL2

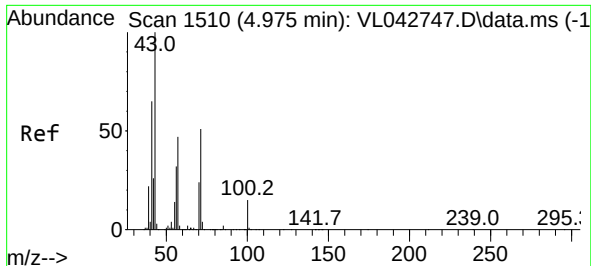
Tgt Ion: 49 Resp: 135095
Ion Ratio Lower Upper
49 100
128 46.2 23.6 71.0
130 59.5 30.3 90.8



#7
Chloroethane
Concen: 7.671 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.007 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

Tgt Ion: 64 Resp: 21161
Ion Ratio Lower Upper
64 100
66 28.3 24.1 36.1

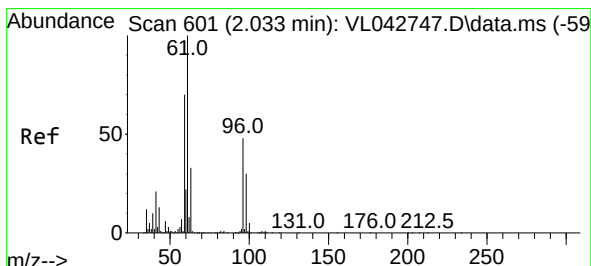
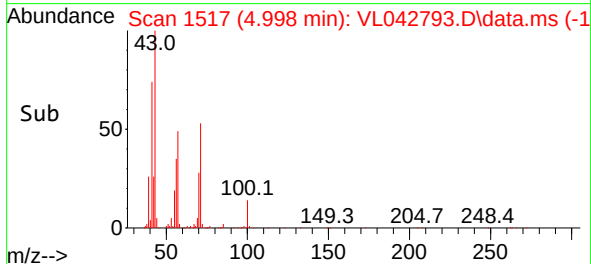
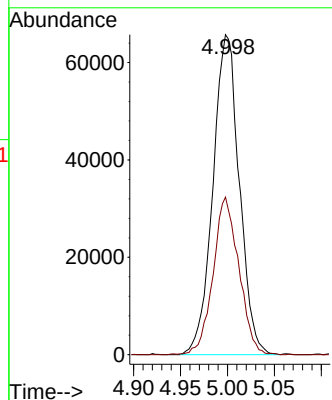
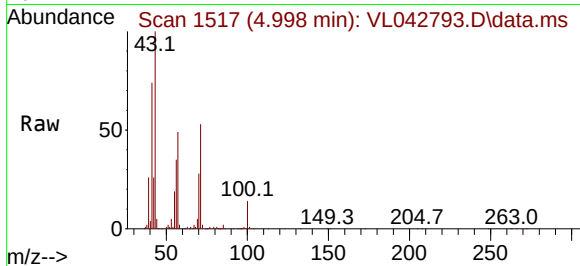




#10
Heptane
Concen: 5.632 ppbv
RT: 4.998 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

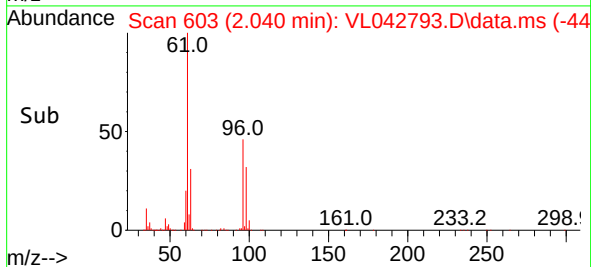
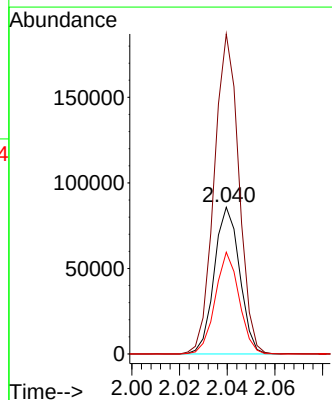
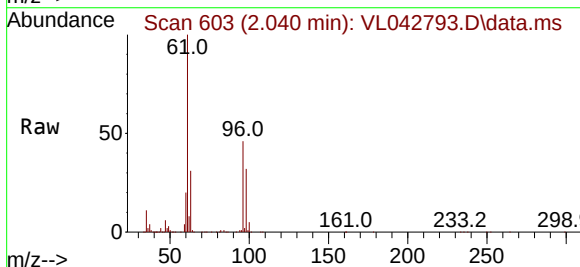
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL2

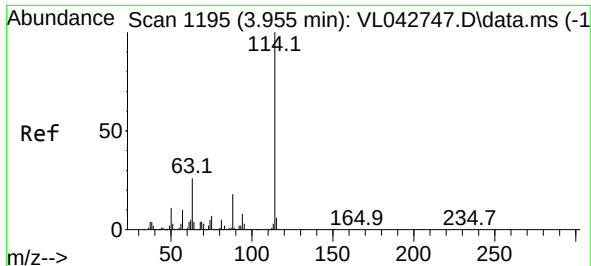
Tgt Ion: 43 Resp: 128422
Ion Ratio Lower Upper
43 100
57 48.0 39.9 59.9



#18
1,1-Dichloroethene
Concen: 10.045 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.007 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

Tgt Ion: 96 Resp: 63505
Ion Ratio Lower Upper
96 100
61 218.2 165.8 248.6
98 69.4 49.9 74.9

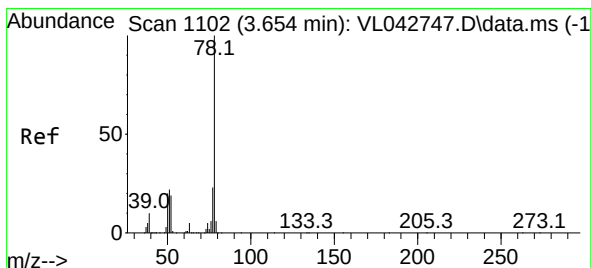
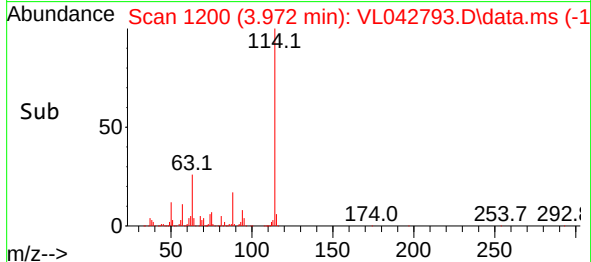
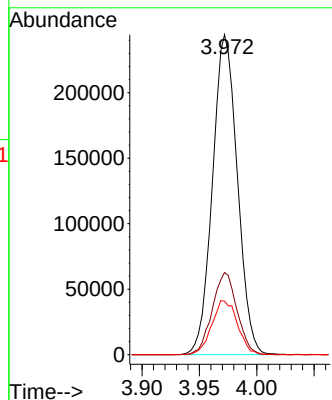
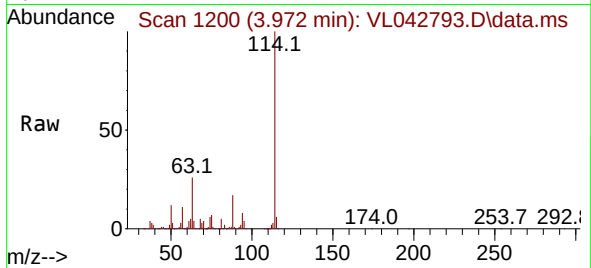




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1195
Delta R.T. 0.016 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

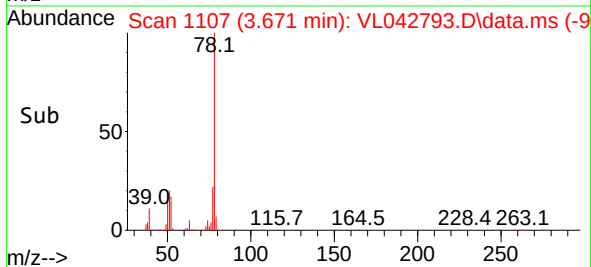
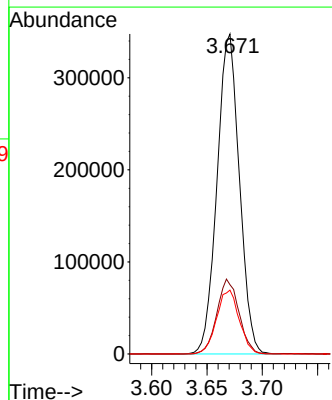
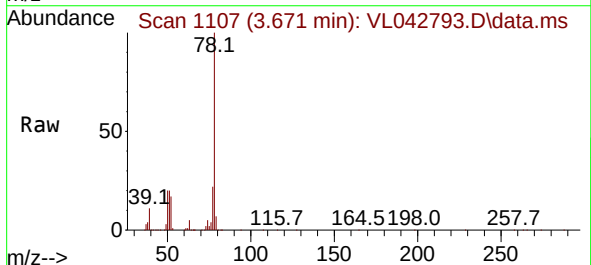
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL2

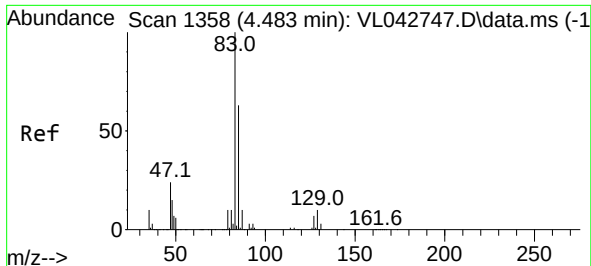
Tgt Ion:114 Resp: 368077
Ion Ratio Lower Upper
114 100
63 25.7 20.5 30.7
88 17.5 14.0 21.0



#36
Benzene
Concen: 13.995 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

Tgt Ion: 78 Resp: 488205
Ion Ratio Lower Upper
78 100
77 21.7 18.5 27.7
50 20.0 16.2 24.2

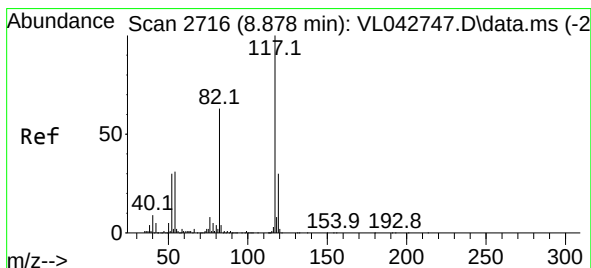
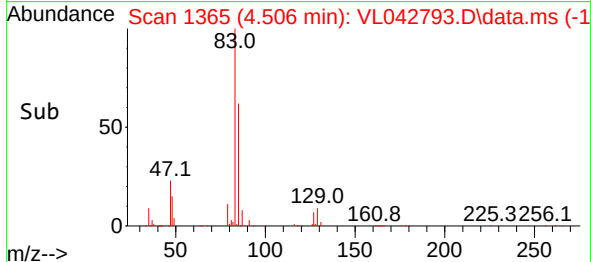
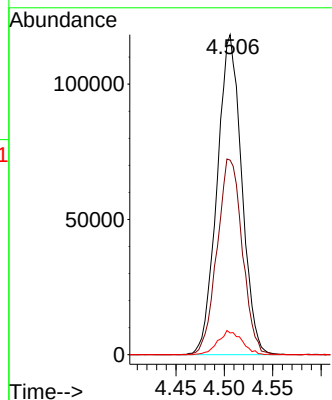
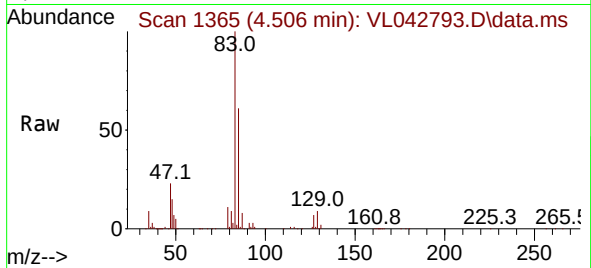




#42
Bromodichloromethane
Concen: 7.628 ppbv
RT: 4.506 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

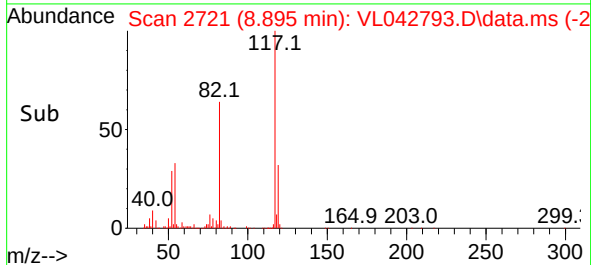
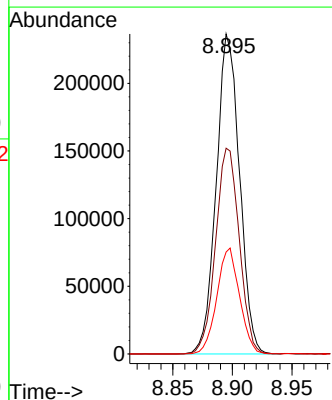
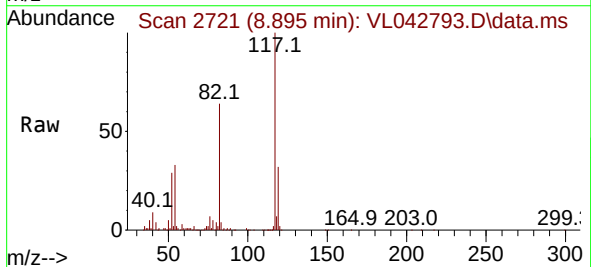
Instrument :
MSVOA_1
ClientSampleId :
AE073-1100DL2

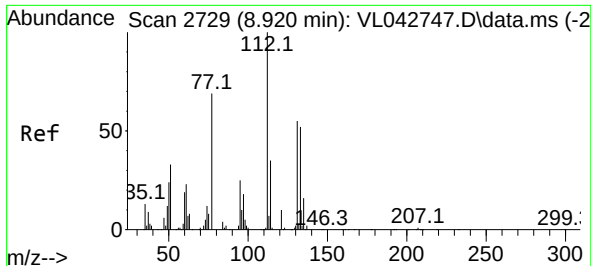
Tgt Ion: 83 Resp: 208761
Ion Ratio Lower Upper
83 100
85 60.8 50.2 75.4
127 6.8 5.4 8.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.016 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

Tgt Ion: 117 Resp: 321275
Ion Ratio Lower Upper
117 100
82 65.5 53.3 79.9
119 32.3 25.8 38.6





#57

Chlorobenzene

Concen: 11.034 ppbv

RT: 8.937 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL042793.D

Acq: 31 Jul 2025 13:15

Instrument :

MSVOA_1

ClientSampleId :

AE073-1100DL2

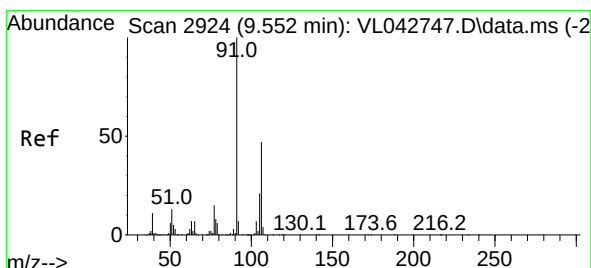
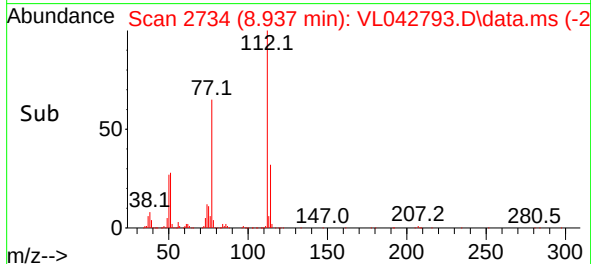
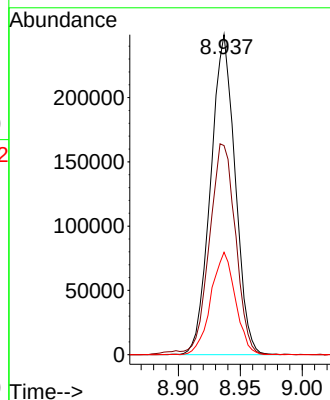
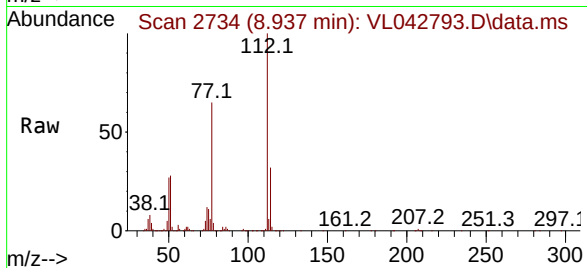
Tgt Ion:112 Resp: 343073

Ion Ratio Lower Upper

112 100

77 65.3 56.4 84.6

114 32.0 31.2 38.2



#59

m/p-Xylene

Concen: 9.433 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. -0.006 min

Lab File: VL042793.D

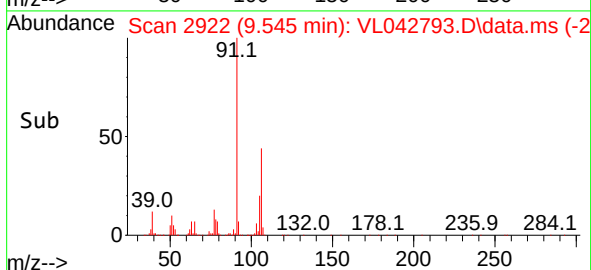
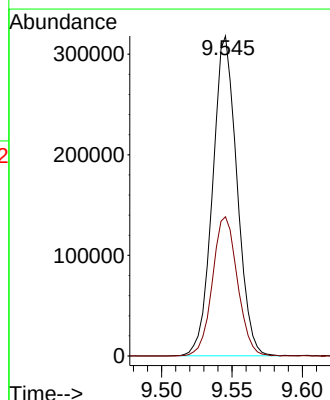
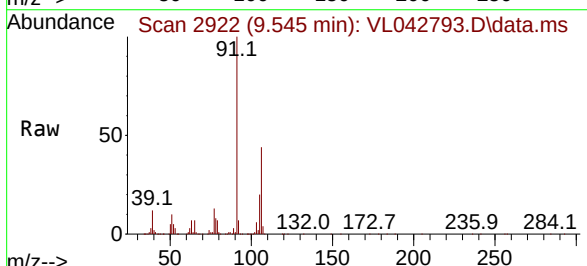
Acq: 31 Jul 2025 13:15

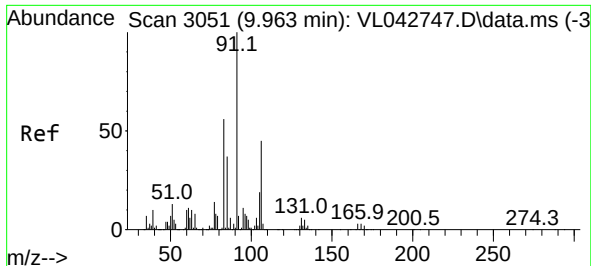
Tgt Ion: 91 Resp: 382502

Ion Ratio Lower Upper

91 100

106 44.9 37.4 56.2

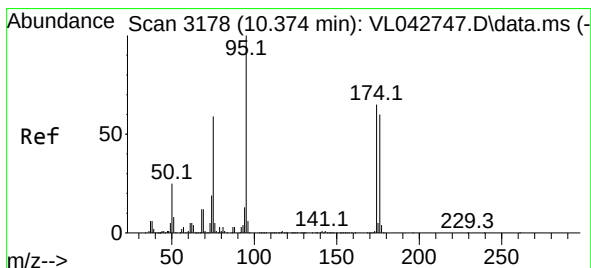
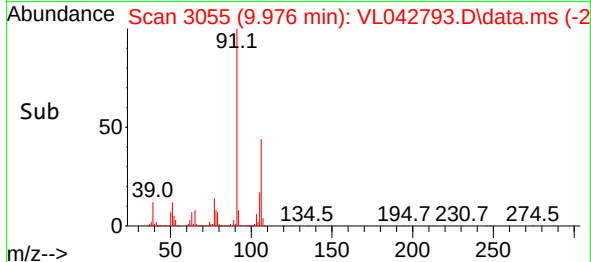
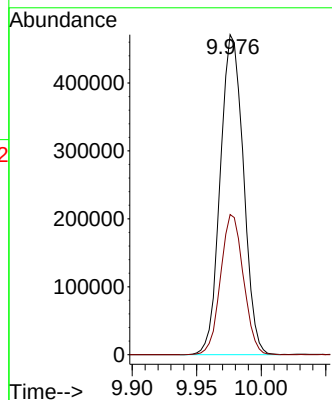
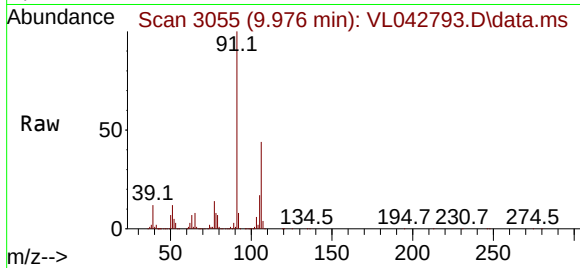




#60
o-Xylene
Concen: 14.505 ppbv
RT: 9.976 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

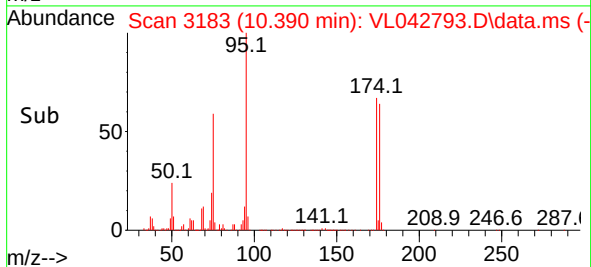
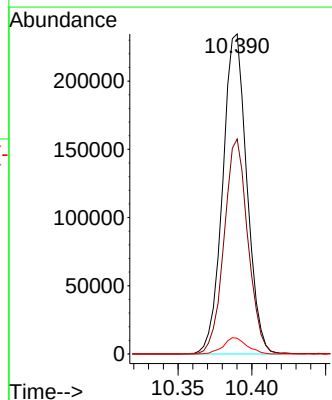
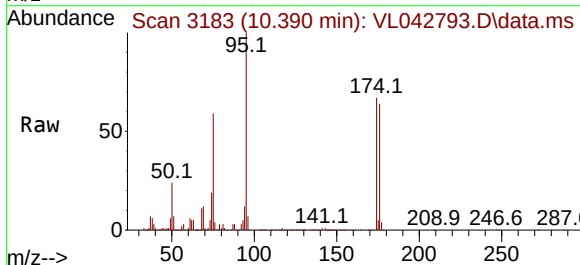
Instrument :
MSVOA_1
ClientSampleId :
AE073-1100DL2

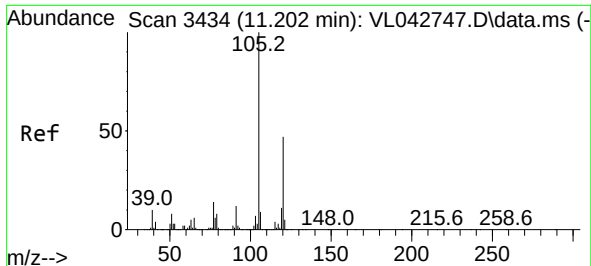
Tgt Ion: 91 Resp: 587689
Ion Ratio Lower Upper
91 100
106 43.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.509 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.016 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

Tgt Ion: 95 Resp: 267370
Ion Ratio Lower Upper
95 100
174 66.2 53.8 80.6
175 4.9 4.0 6.0

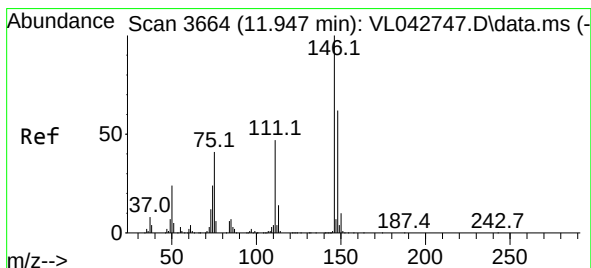
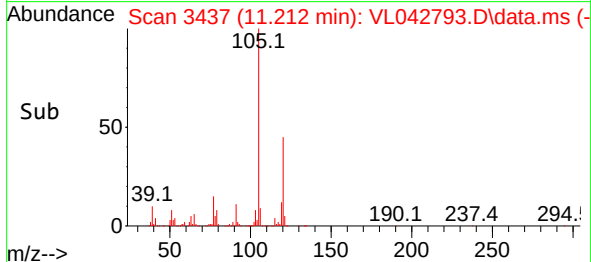
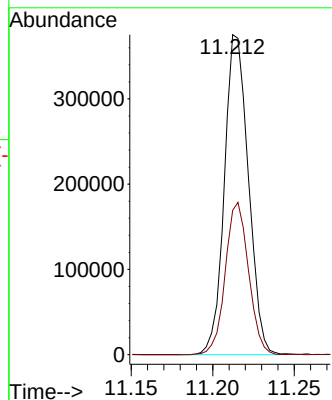
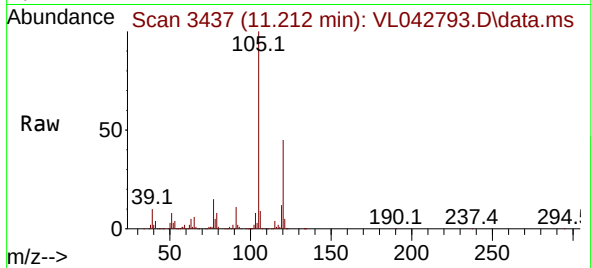




#73
1,3,5-Trimethylbenzene
Concen: 9.637 ppbv
RT: 11.212 min Scan# 3434
Delta R.T. 0.010 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

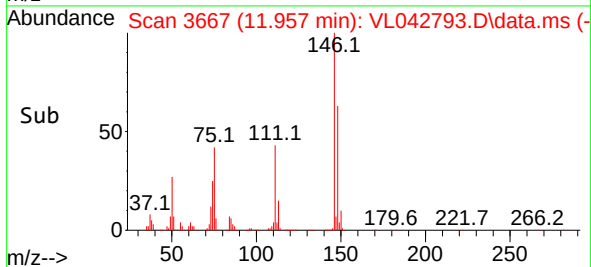
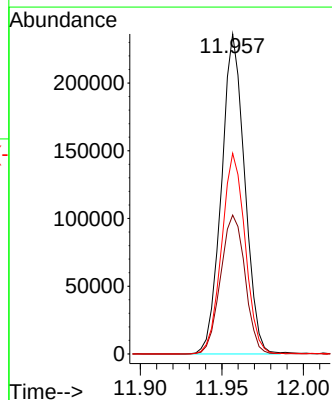
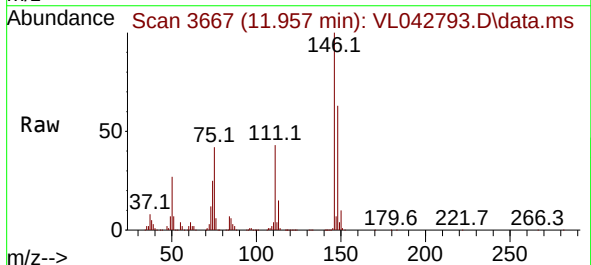
Instrument :
MSVOA_1
ClientSampleId :
AE073-1100DL2

Tgt Ion:105 Resp: 383936
Ion Ratio Lower Upper
105 100
120 45.1 37.8 56.8



#77
1,2-Dichlorobenzene
Concen: 7.799 ppbv
RT: 11.957 min Scan# 3667
Delta R.T. 0.010 min
Lab File: VL042793.D
Acq: 31 Jul 2025 13:15

Tgt Ion:146 Resp: 233554
Ion Ratio Lower Upper
146 100
111 45.9 23.7 71.1
148 63.7 32.6 97.7





CALIBRATION SUMMARY

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

1) I Bromochloromethane	-----ISTD-----								
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

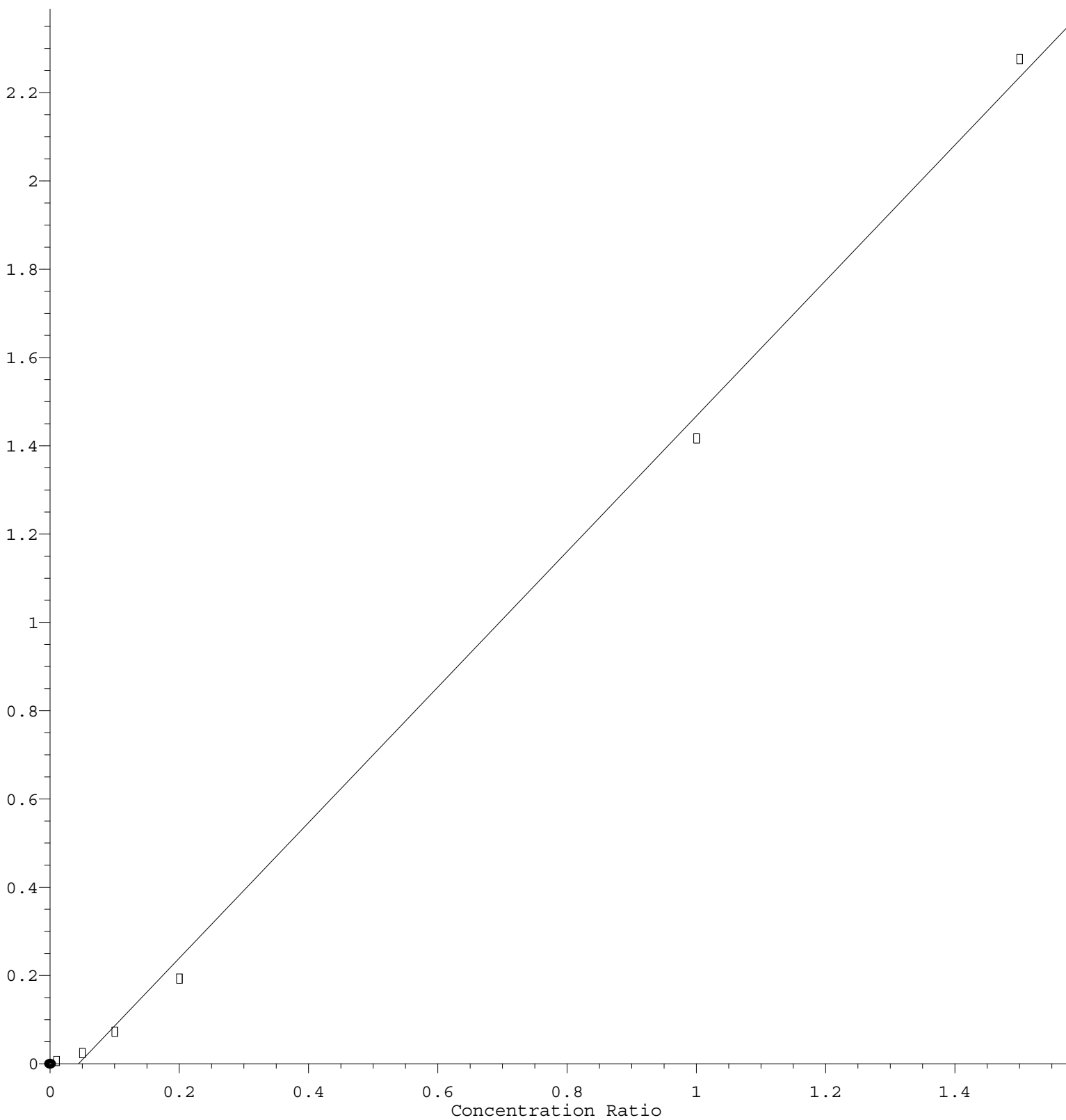
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.730	0.713	0.761	0.663	0.675	0.708	5.64
35) T Carbon Tetrach...	0.950	0.692	0.681	0.709	0.735	0.701	0.731	0.743	12.56
36) T Benzene			0.976	0.971	0.995	0.896	0.900	0.948	4.86
37) T 1,2-Dichloroet...			0.595	0.585	0.584	0.537	0.553	0.571	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



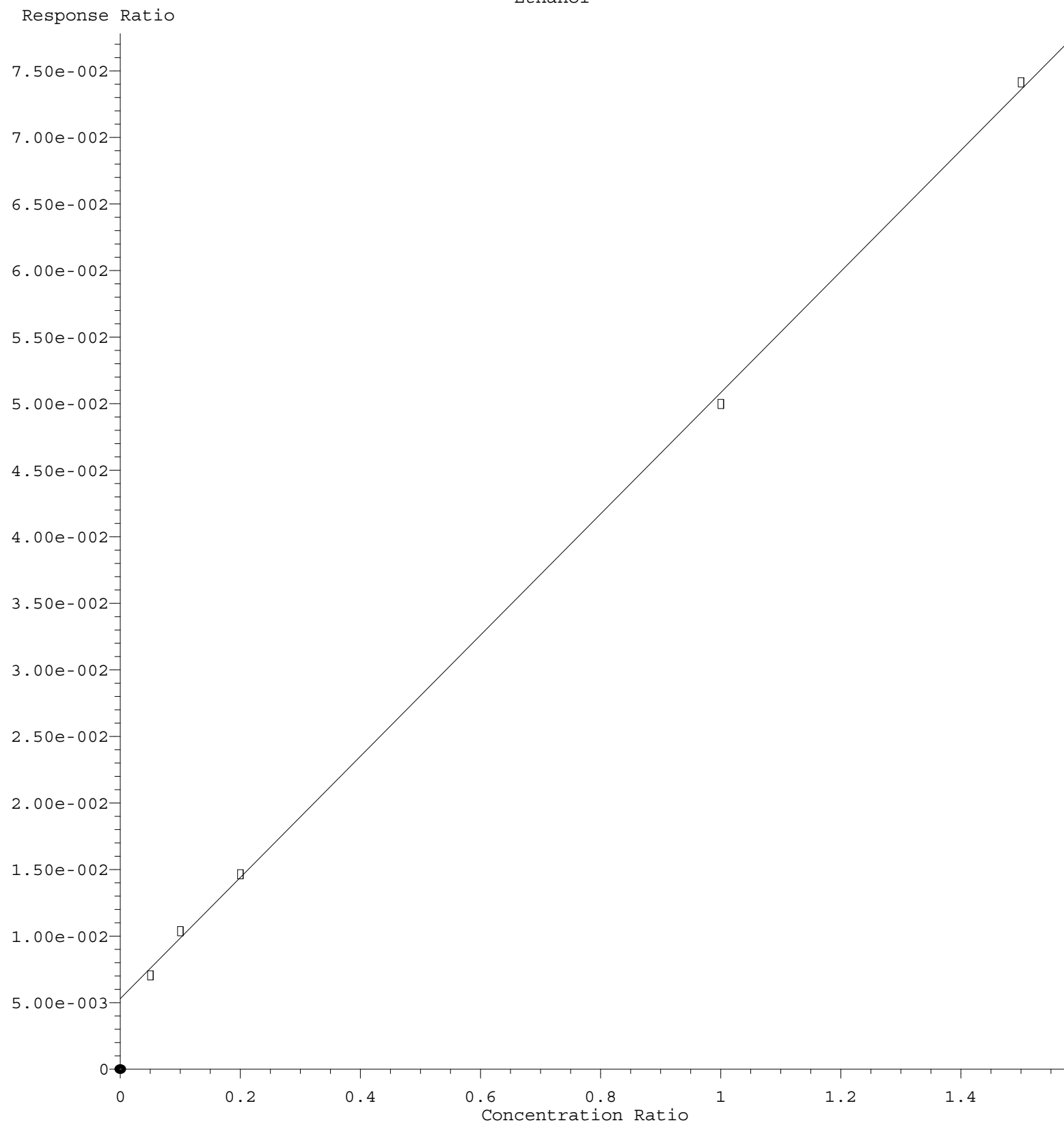
$$\text{Response} = 1.535\text{e}+000 * \text{Amt} - 6.678\text{e}-002$$

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

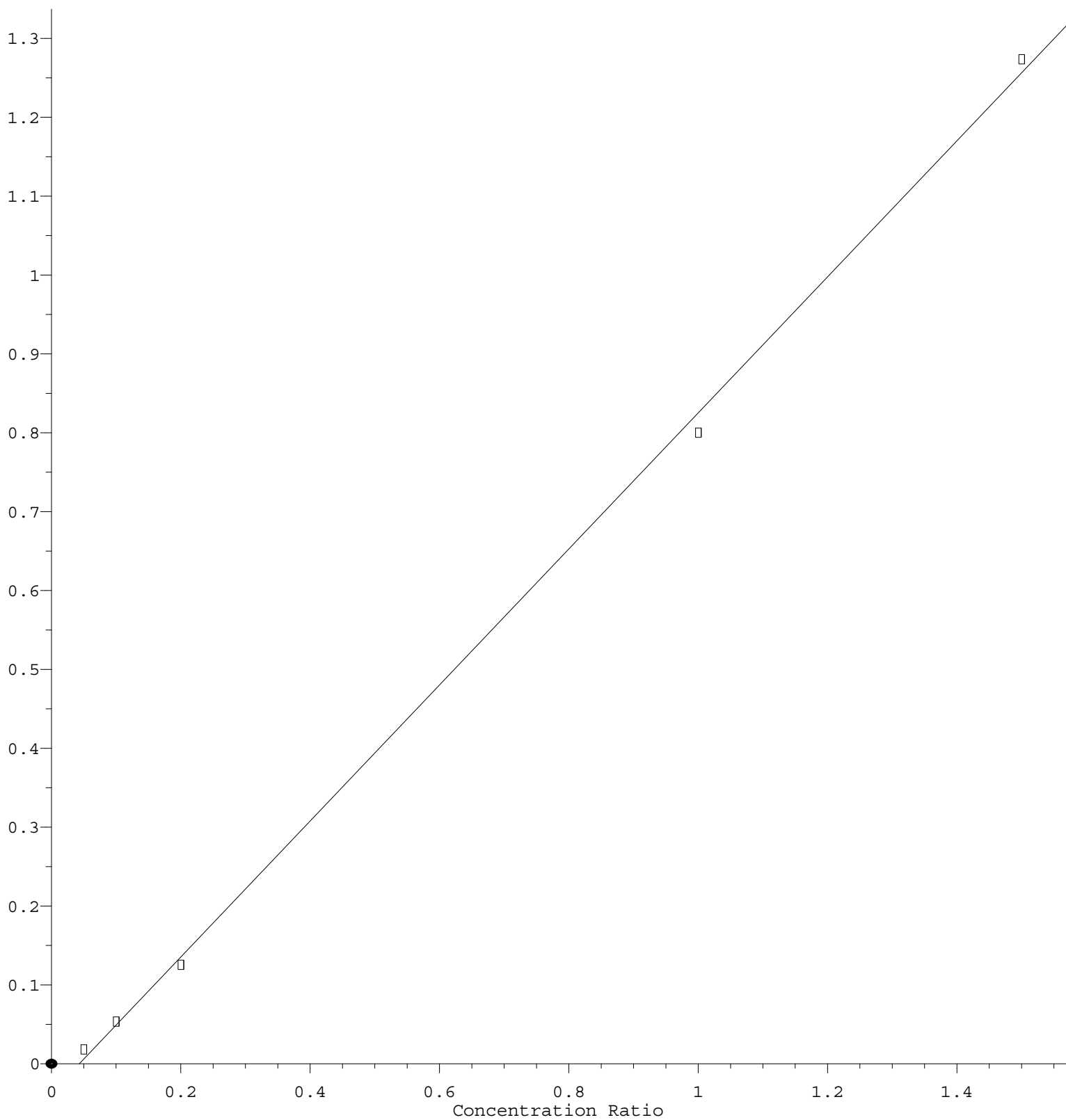
Ethanol



Response = 4.558e-002 * Amt + 5.251e-003
Coef of Det (r^2) = 0.999534 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 22 2025

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

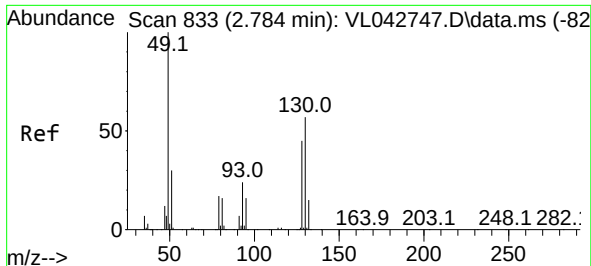
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

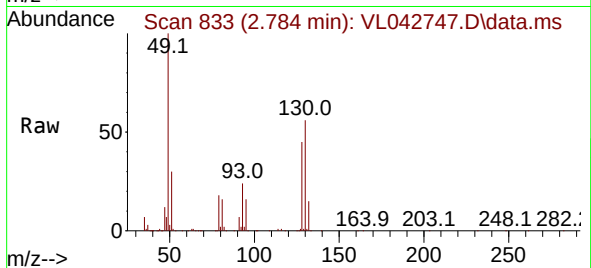
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv	100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv	100
49) Bromoform	9.480	173	244997	10.256	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

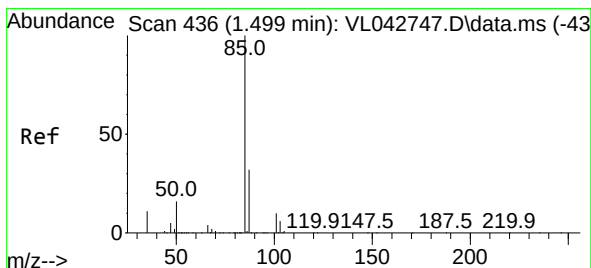
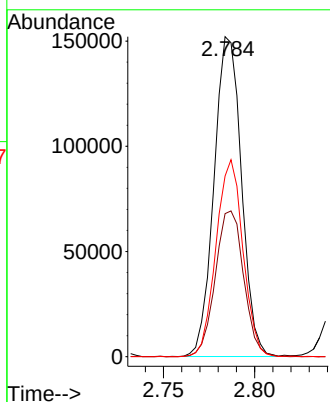
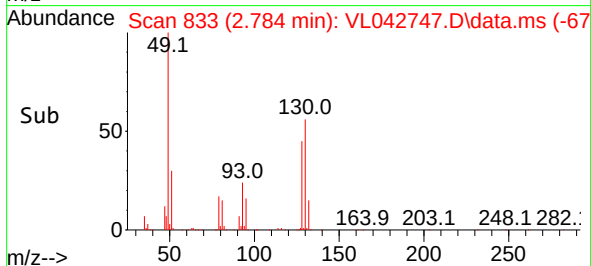
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



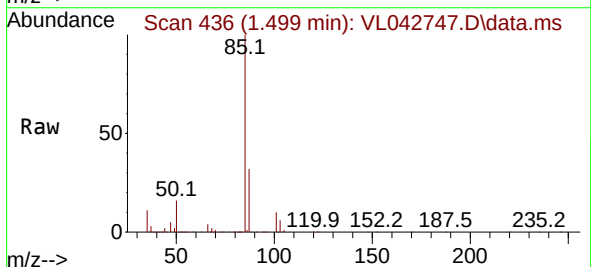
Tgt Ion: 49 Resp: 159080
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 60.5 30.3 90.8

Manual Integrations
APPROVED

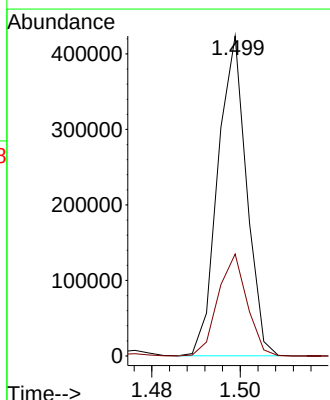
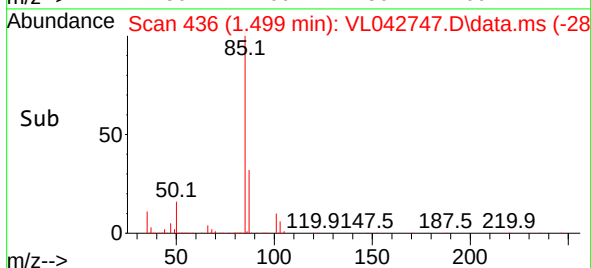
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

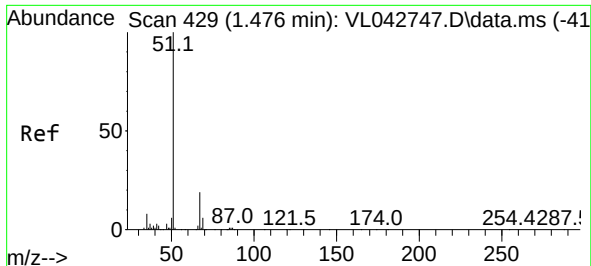


#2
Dichlorodifluoromethane
Concen: 9.062 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 85 Resp: 190592
Ion Ratio Lower Upper
85 100
87 31.8 25.4 38.2





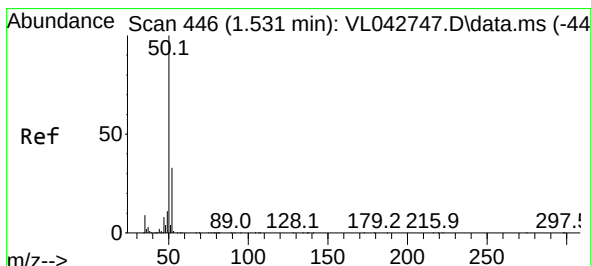
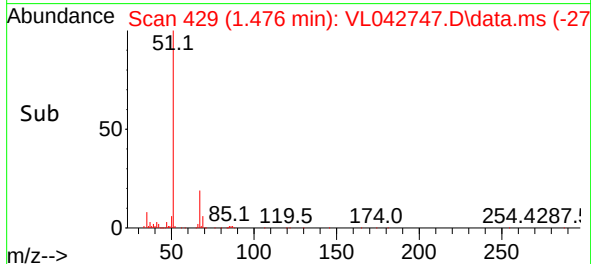
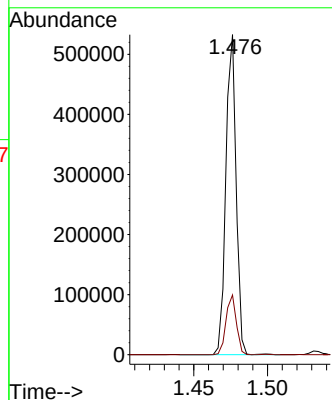
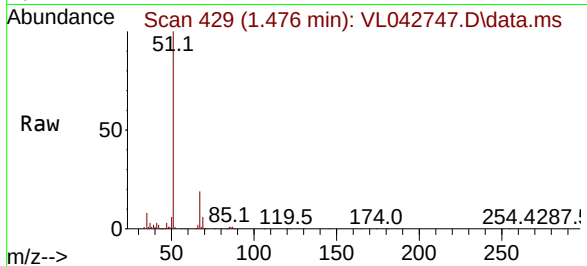
#3
Chlorodifluoromethane
Concen: 9.436 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 25854
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

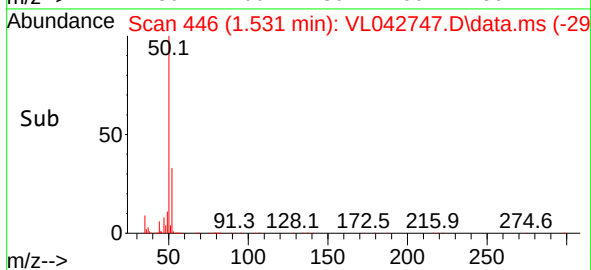
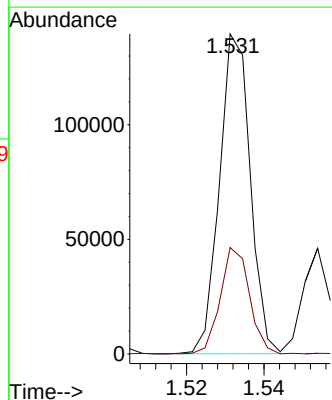
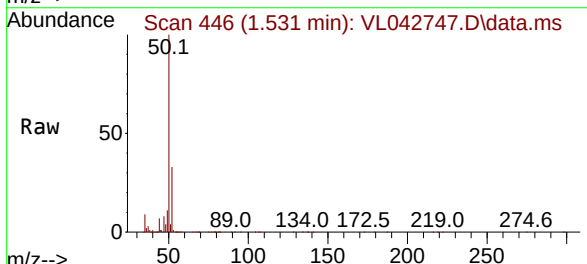
Manual Integrations
APPROVED

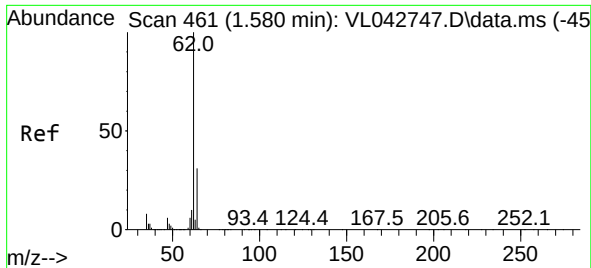
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 9.050 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 50 Resp: 77006
Ion Ratio Lower Upper
50 100
52 33.3 26.6 40.0





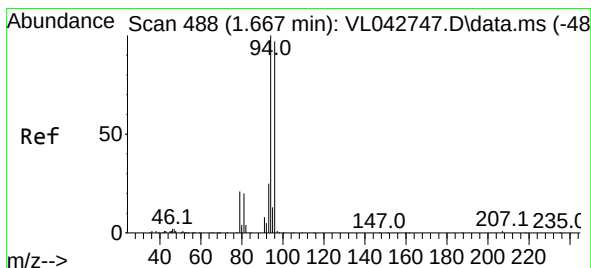
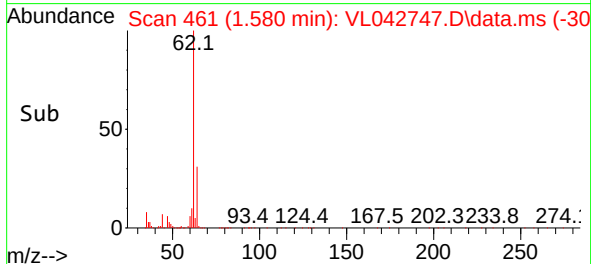
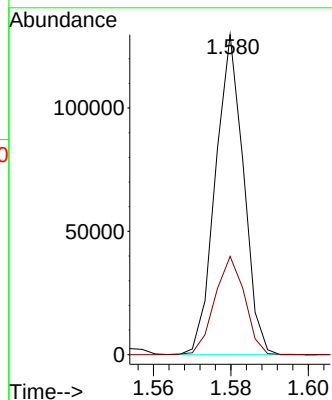
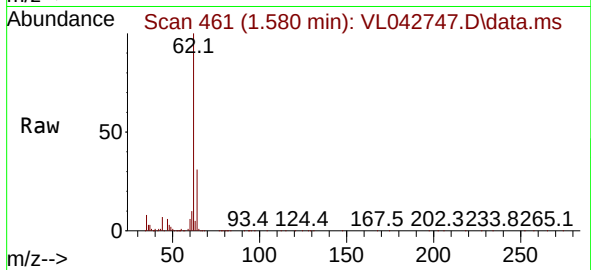
#5
 Vinyl Chloride
 Concen: 7.773 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 65340
 Ion Ratio Lower Upper
 62 100
 64 30.6 24.5 36.7

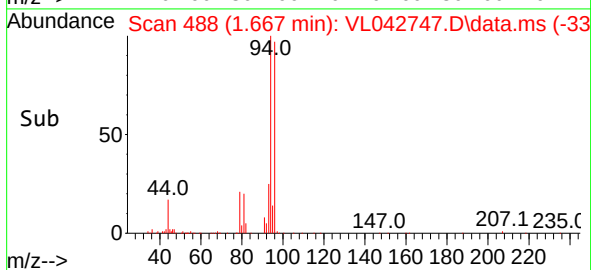
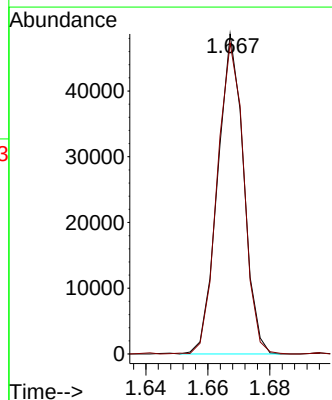
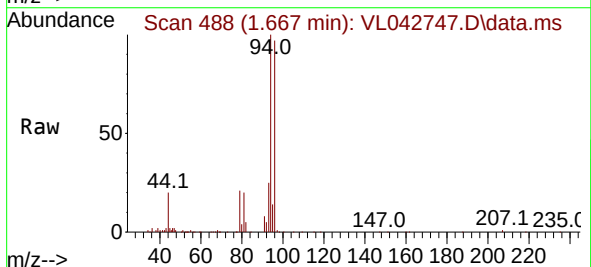
Manual Integrations
 APPROVED

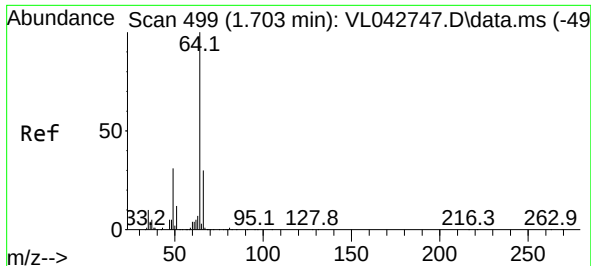
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 8.705 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

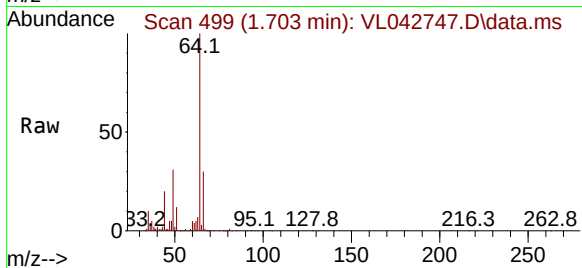
Tgt Ion: 94 Resp: 28292
 Ion Ratio Lower Upper
 94 100
 96 97.0 77.6 116.4





#7
Chloroethane
Concen: 8.646 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

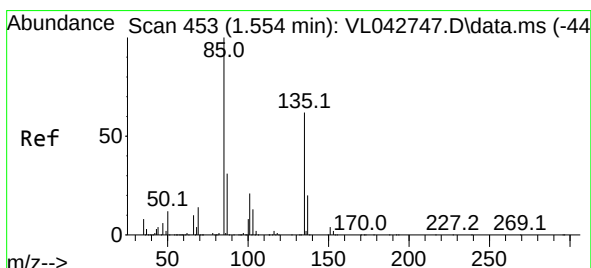
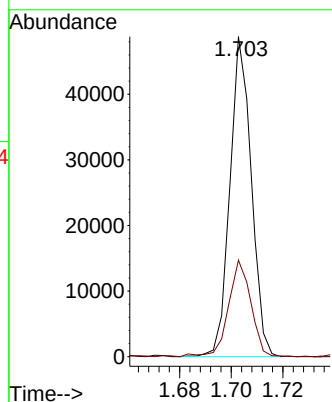
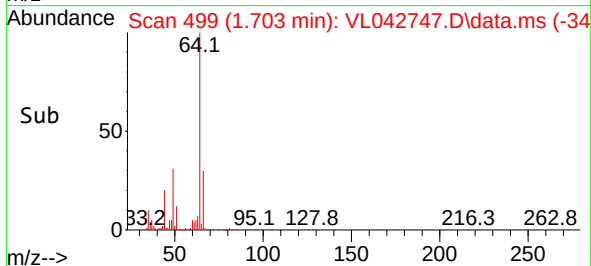
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



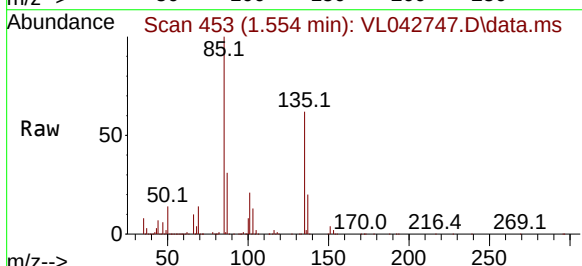
Tgt Ion: 64 Resp: 28085
Ion Ratio Lower Upper
64 100
66 30.1 24.1 36.1

Manual Integrations
APPROVED

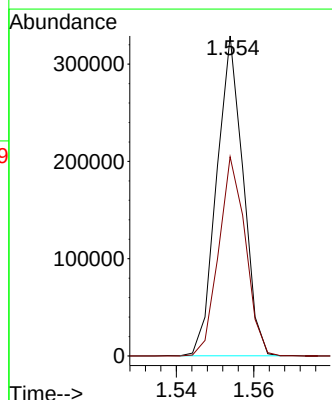
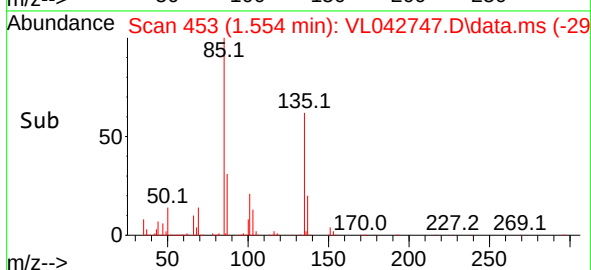
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

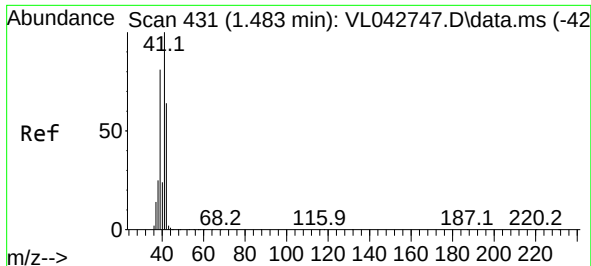


#8
Dichlorotetrafluoroethane
Concen: 9.011 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



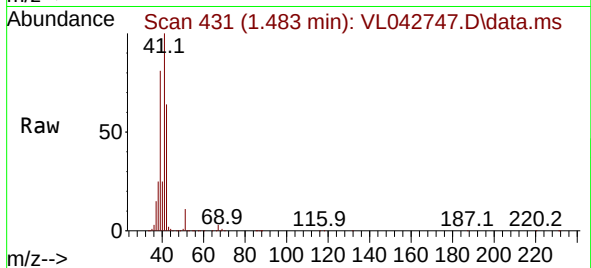
Tgt Ion: 85 Resp: 155875
Ion Ratio Lower Upper
85 100
135 63.3 50.6 76.0





#9
Propene
Concen: 9.488 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

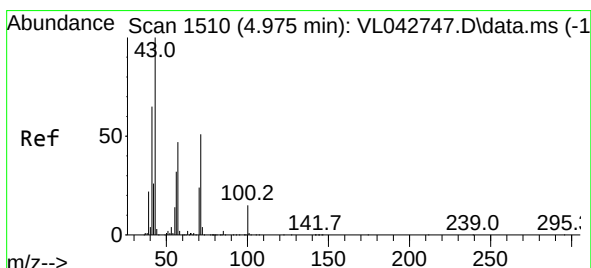
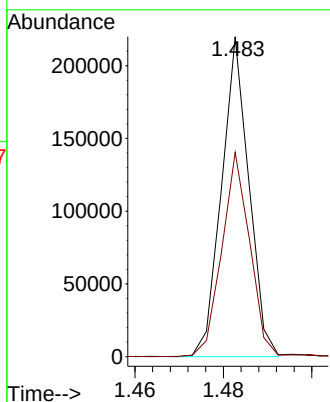
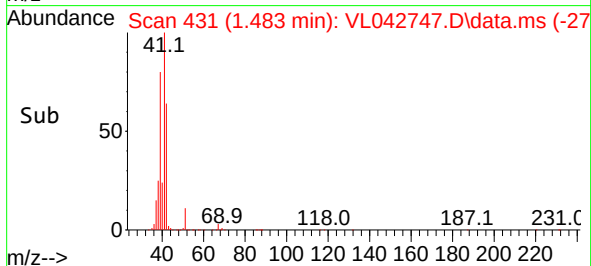
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



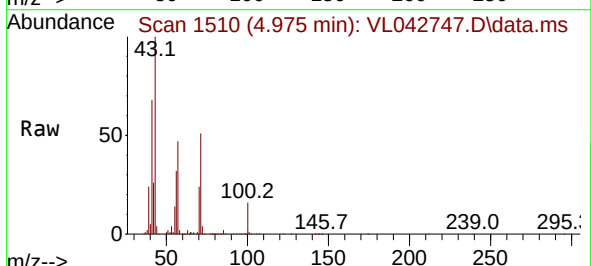
Tgt Ion: 41 Resp: 94480
Ion Ratio Lower Upper
41 100
42 66.5 53.2 79.8

Manual Integrations
APPROVED

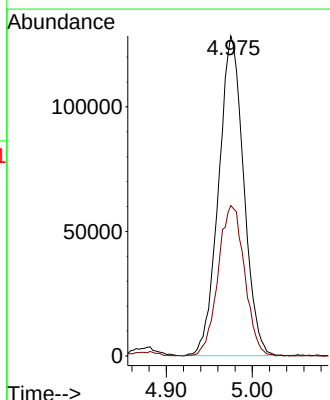
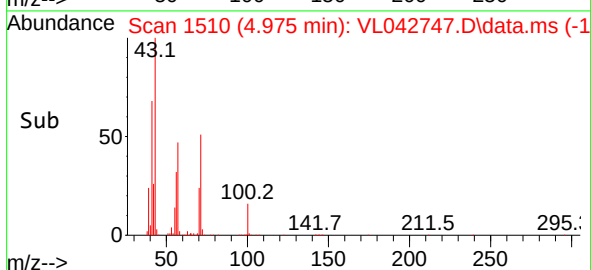
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

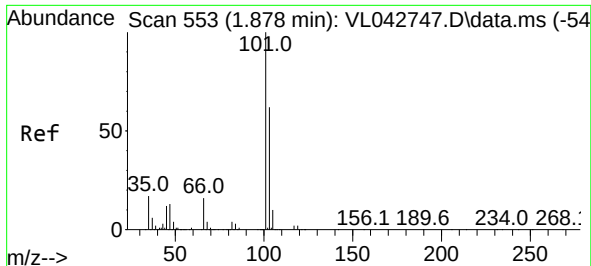


#10
Heptane
Concen: 9.701 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 43 Resp: 259821
Ion Ratio Lower Upper
43 100
57 49.9 39.9 59.9





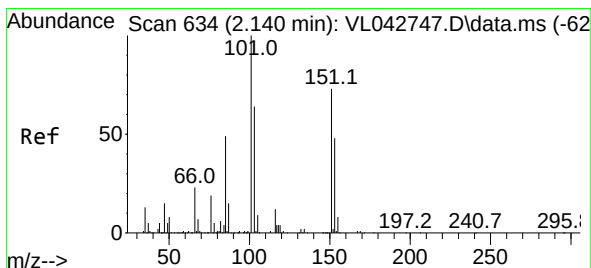
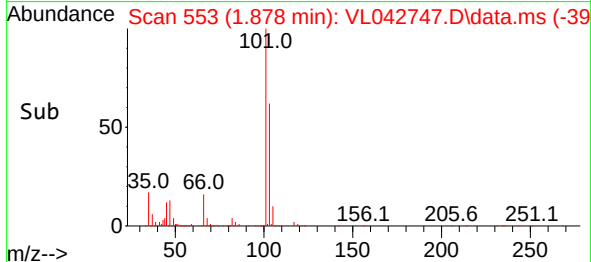
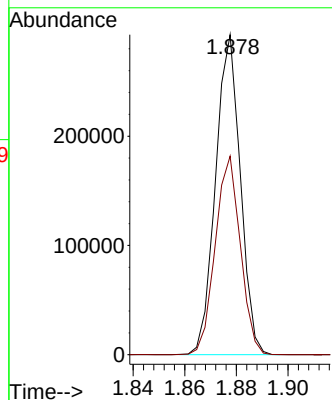
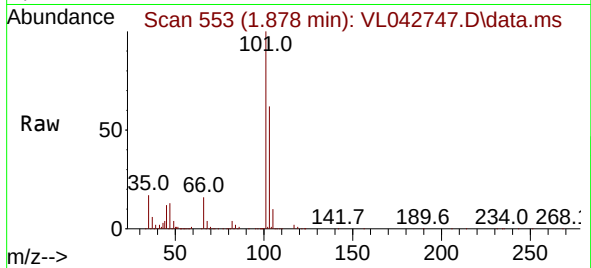
#11
Trichlorofluoromethane
Concen: 8.992 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 194964
Ion Ratio Lower Upper
101 100
103 62.0 49.6 74.4

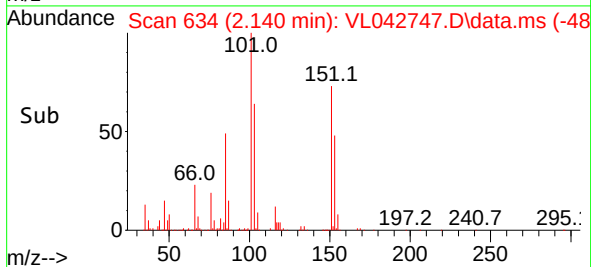
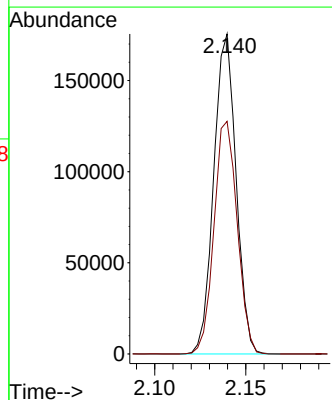
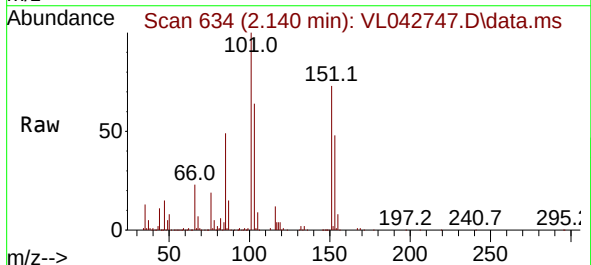
Manual Integrations
APPROVED

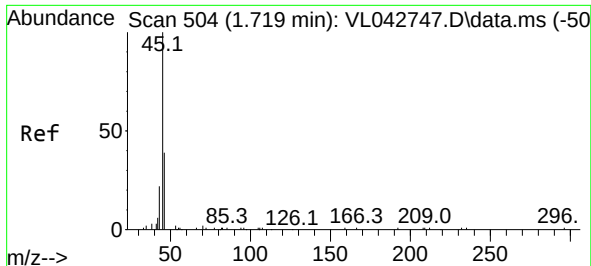
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.081 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

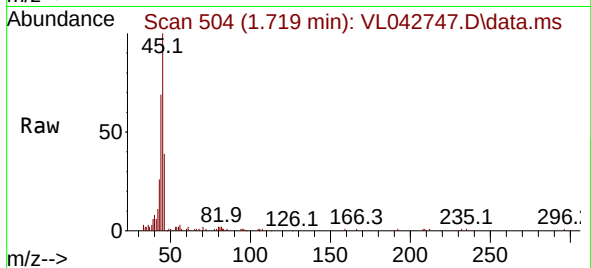
Tgt Ion:101 Resp: 149612
Ion Ratio Lower Upper
101 100
151 75.6 60.5 90.7





#13
Ethanol
Concen: 9.867 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

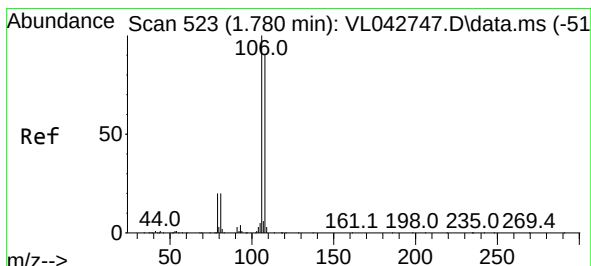
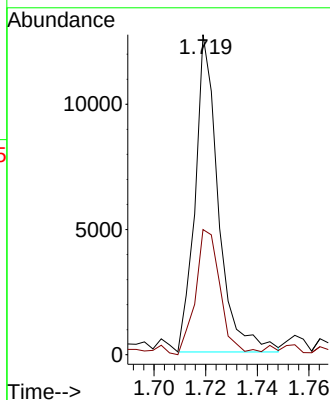
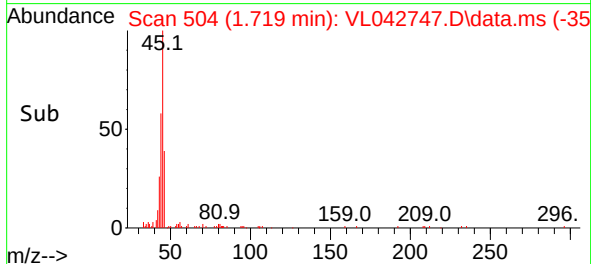
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



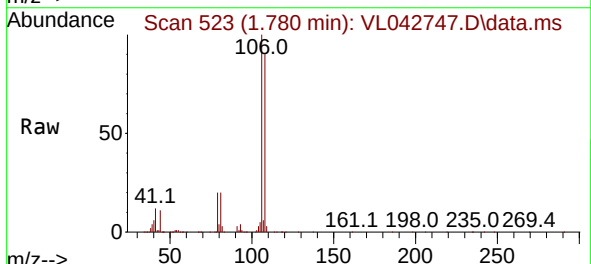
Tgt Ion: 45 Resp: 7949
Ion Ratio Lower Upper
45 100
46 46.5 17.8 71.4

Manual Integrations
APPROVED

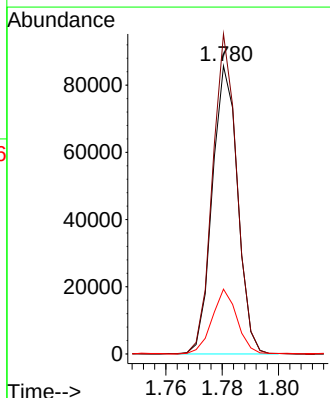
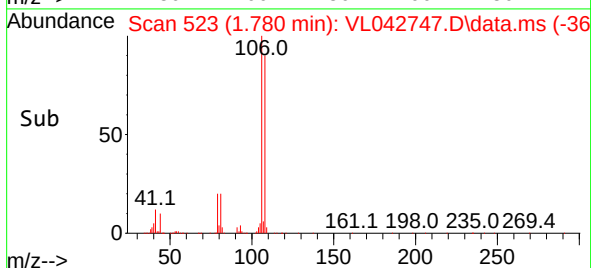
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

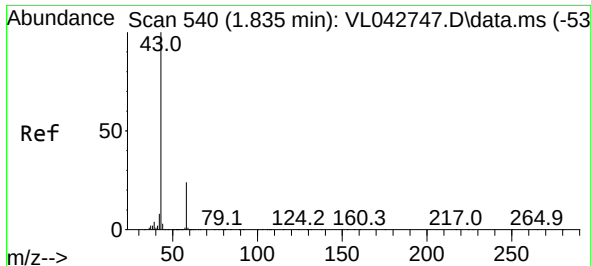


#14
Bromoethene
Concen: 9.193 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



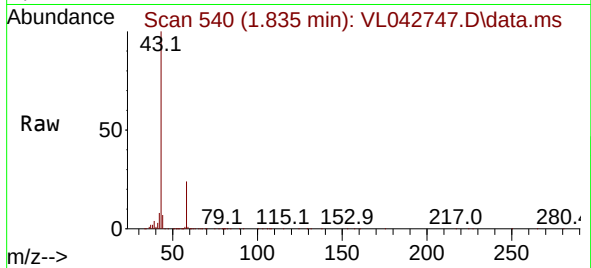
Tgt Ion:108 Resp: 53625
Ion Ratio Lower Upper
108 100
106 105.9 84.7 127.1
79 21.8 17.4 26.2





#15
Acetone
Concen: 7.225 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

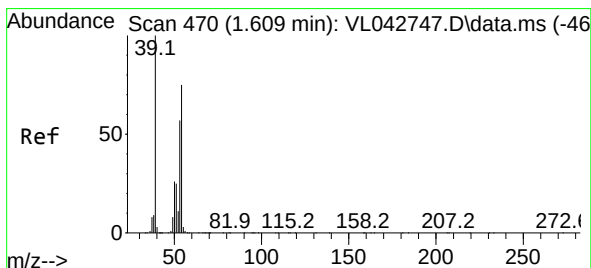
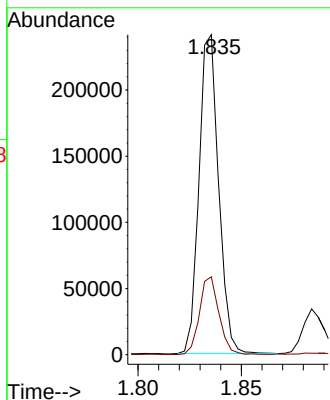
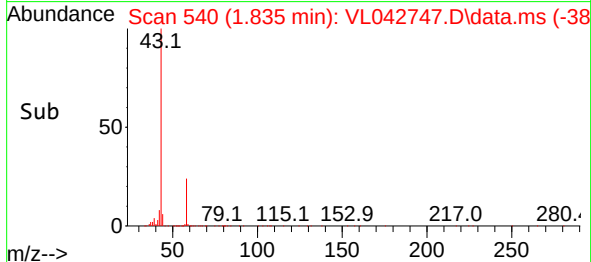
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



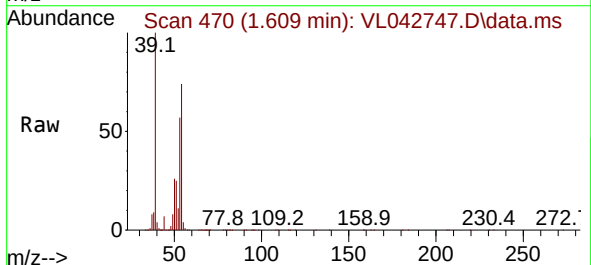
Tgt Ion: 43 Resp: 158714
Ion Ratio Lower Upper
43 100
58 24.8 19.8 29.8

Manual Integrations
APPROVED

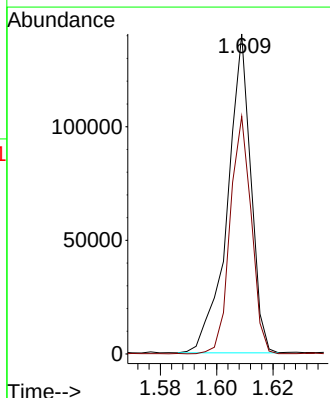
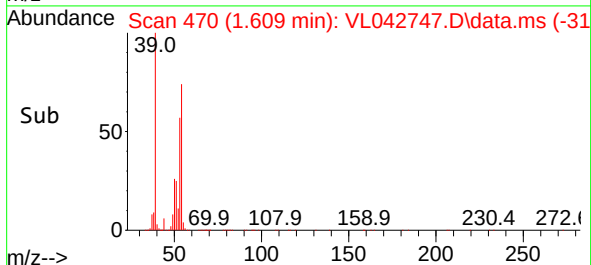
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

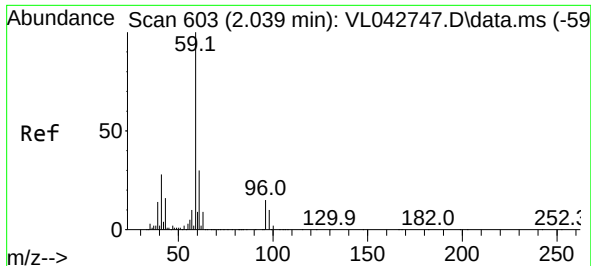


#16
1,3-Butadiene
Concen: 8.642 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 39 Resp: 80968
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.351 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 18526

Ion Ratio Lower Upper

59 100

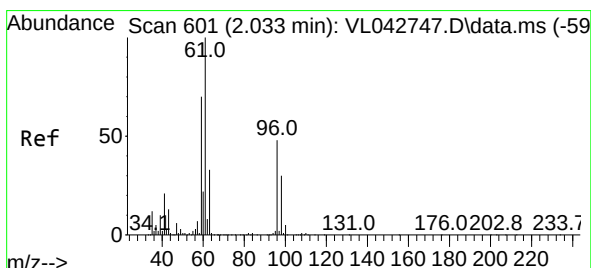
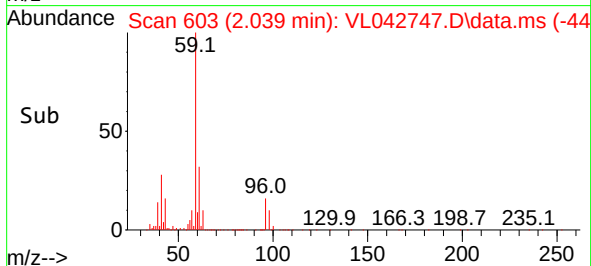
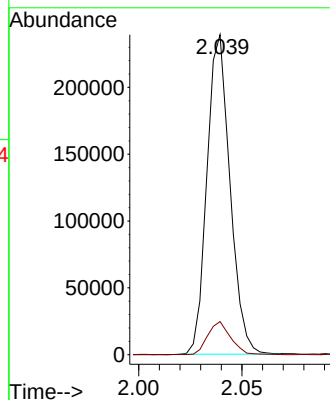
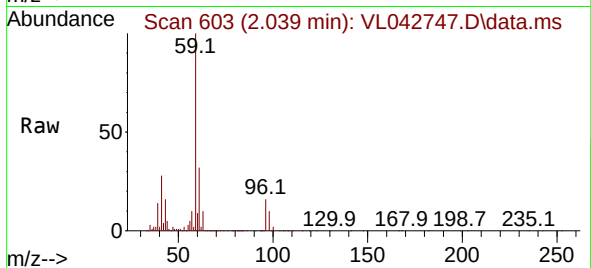
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 8.627 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

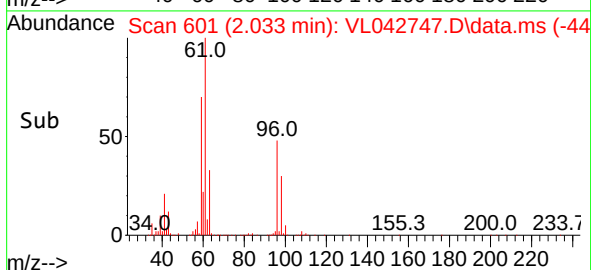
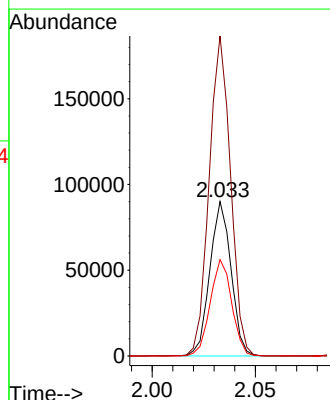
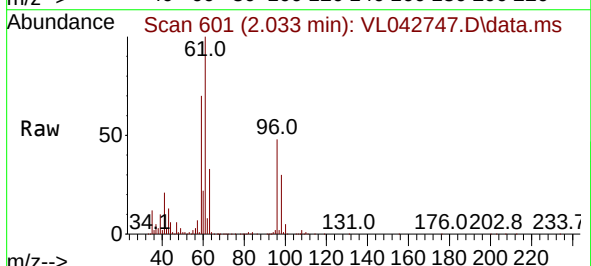
Tgt Ion: 96 Resp: 64224

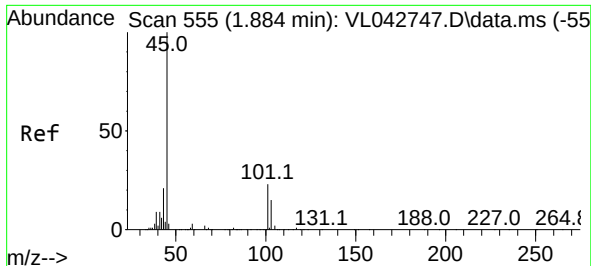
Ion Ratio Lower Upper

96 100

61 207.2 165.8 248.6

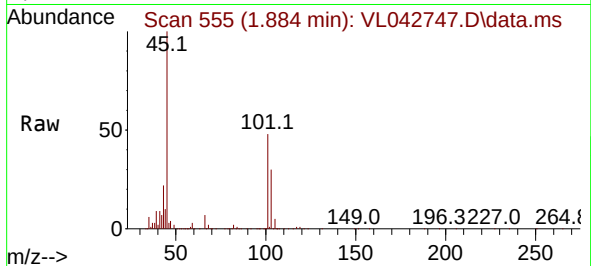
98 62.4 49.9 74.9





#19
Isopropyl Alcohol
Concen: 8.987 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

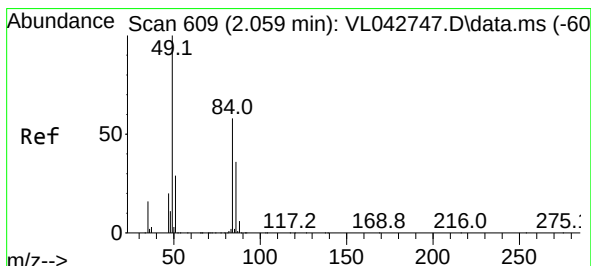
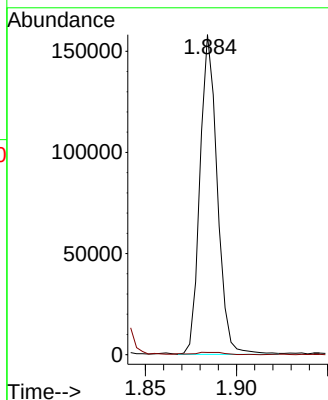
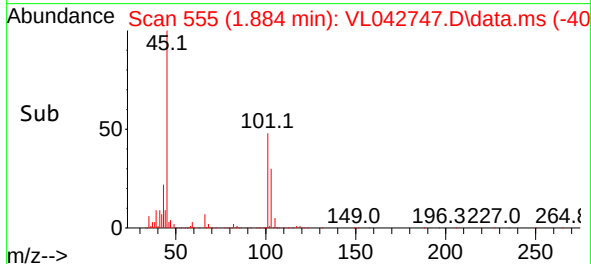
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



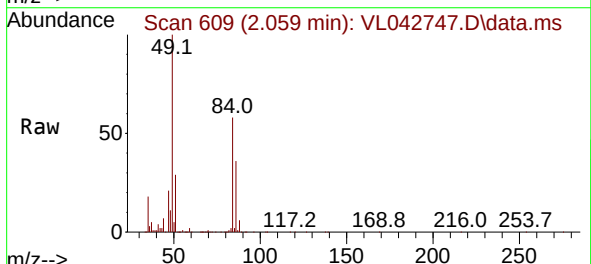
Tgt Ion: 45 Resp: 104900
Ion Ratio Lower Upper
45 100
58 37.5 30.0 45.0

Manual Integrations
APPROVED

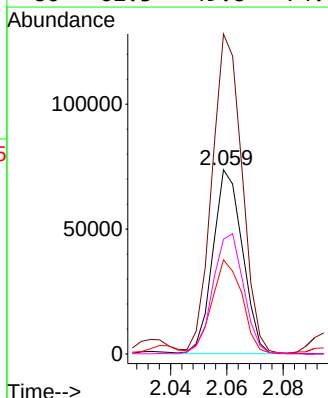
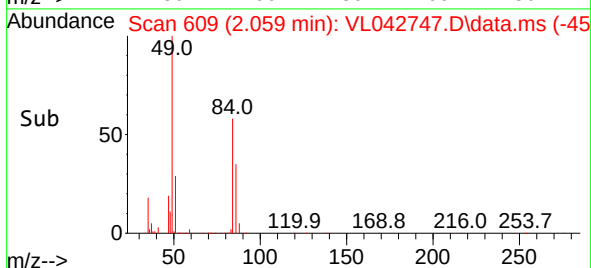
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

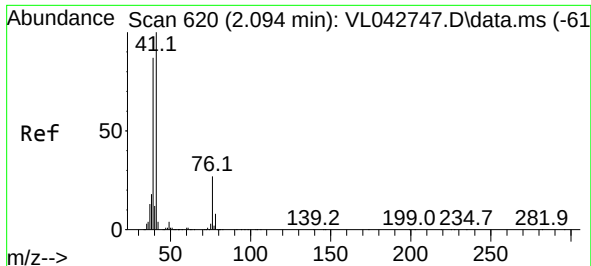


#20
Methylene Chloride
Concen: 7.740 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 84 Resp: 53581
Ion Ratio Lower Upper
84 100
49 173.3 138.6 208.0
51 50.8 40.6 61.0
86 62.3 49.8 74.8





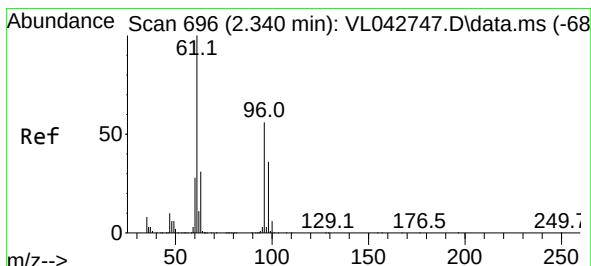
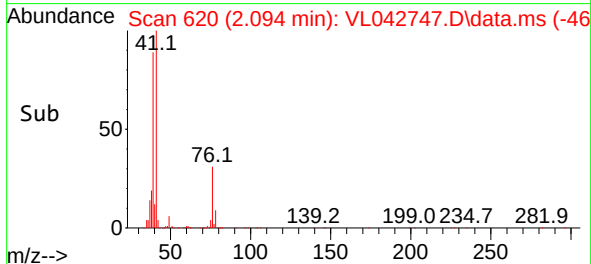
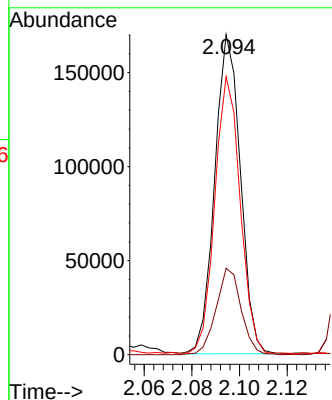
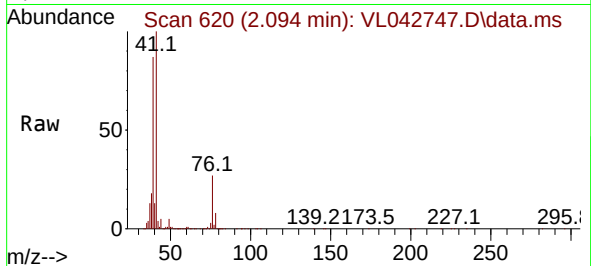
#21
 Allyl Chloride
 Concen: 9.382 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 12702
 Ion Ratio Lower Upper
 41 100
 76 26.4 21.1 31.7
 39 85.4 68.3 102.5

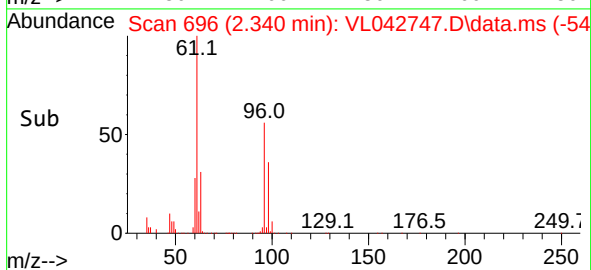
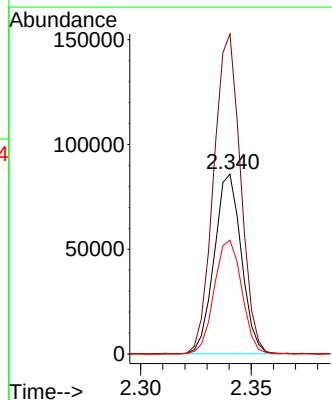
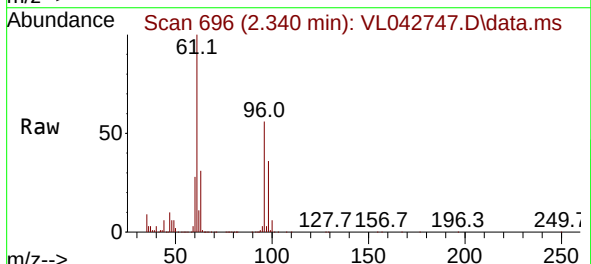
Manual Integrations
 APPROVED

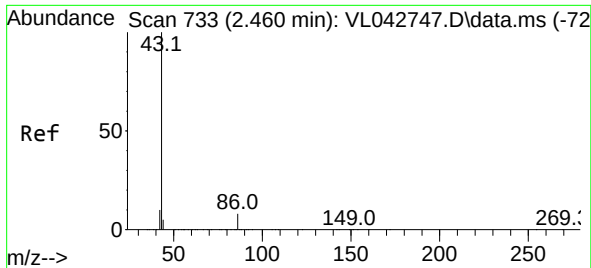
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.148 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

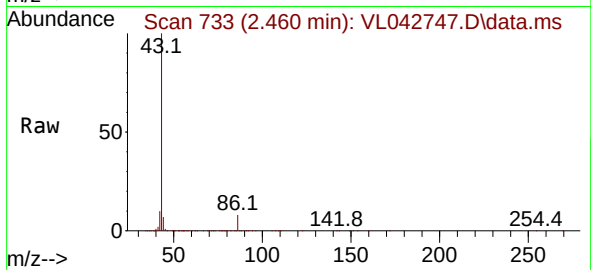
Tgt Ion: 96 Resp: 73152
 Ion Ratio Lower Upper
 96 100
 61 177.9 142.3 213.5
 98 63.3 50.6 76.0





#23
 Vinyl Acetate
 Concen: 10.181 ppbv
 RT: 2.460 min Scan# 711
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

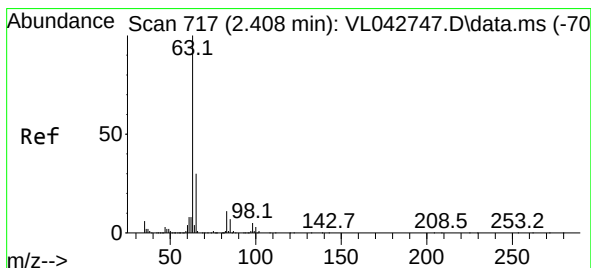
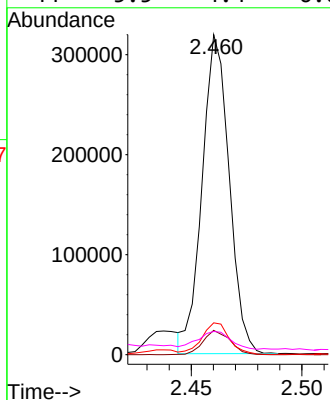
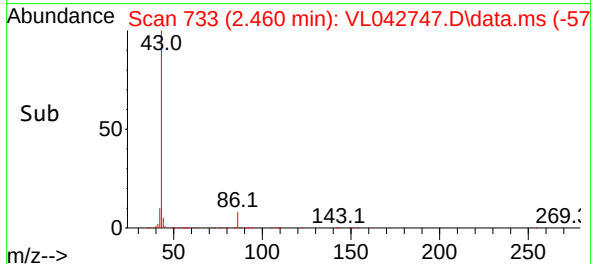
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



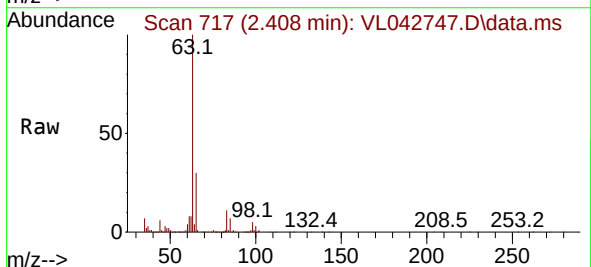
Tgt Ion: 43 Resp: 271125
 Ion Ratio Lower Upper
 43 100
 86 7.6 6.1 9.1
 42 9.8 7.8 11.8
 44 5.5 4.4 6.6

Manual Integrations
 APPROVED

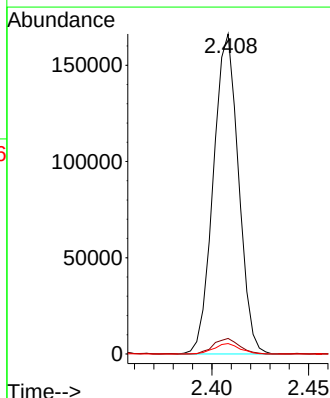
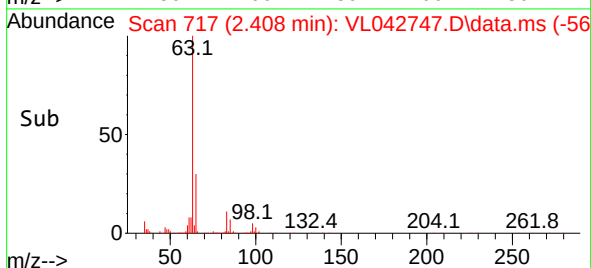
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

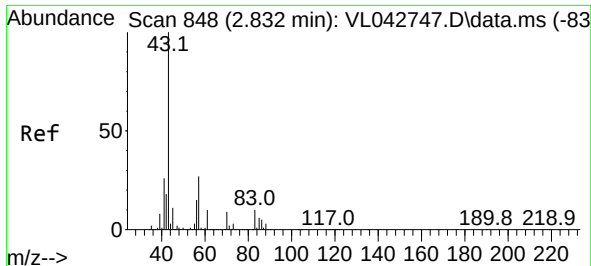


#24
 1,1-Dichloroethane
 Concen: 9.141 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58



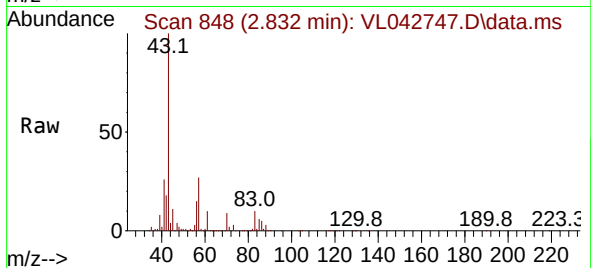
Tgt Ion: 63 Resp: 150257
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.5 7.4
 100 3.2 1.6 4.8





#25
Ethyl Acetate
Concen: 9.666 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

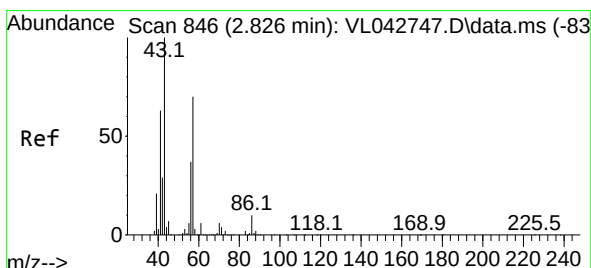
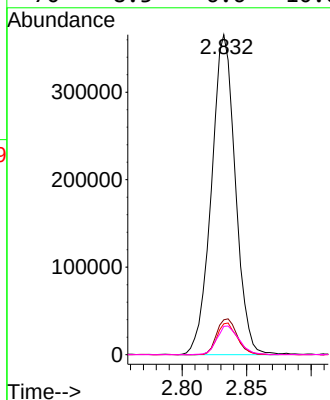
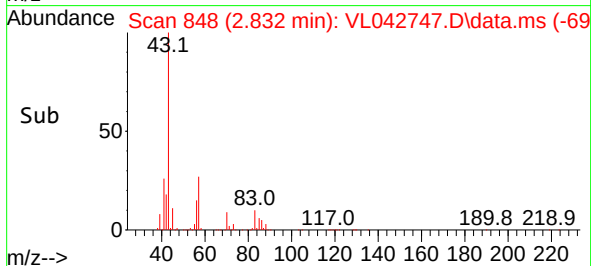
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



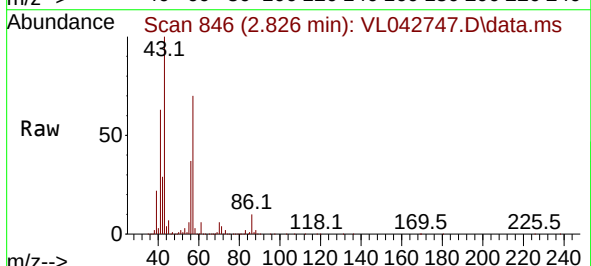
Tgt Ion: 43 Resp: 46999
Ion Ratio Lower Upper
43 100
45 9.7 7.8 11.6
61 8.4 6.7 10.1
70 8.3 6.6 10.0

Manual Integrations
APPROVED

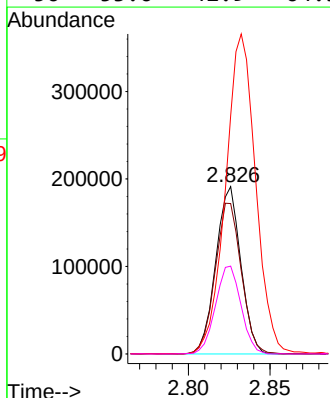
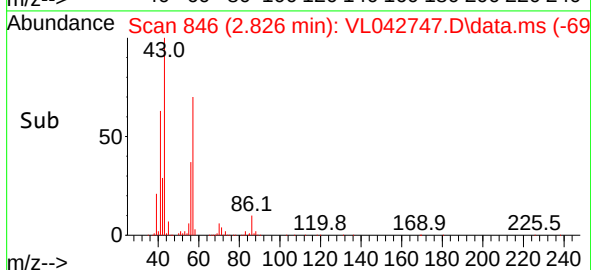
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

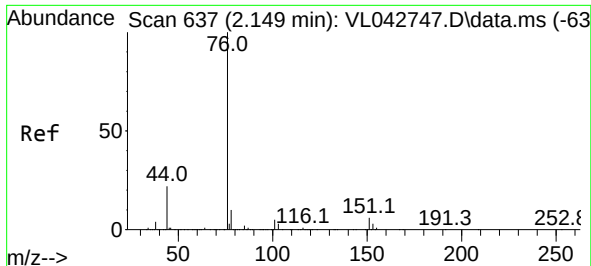


#26
Hexane
Concen: 9.555 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



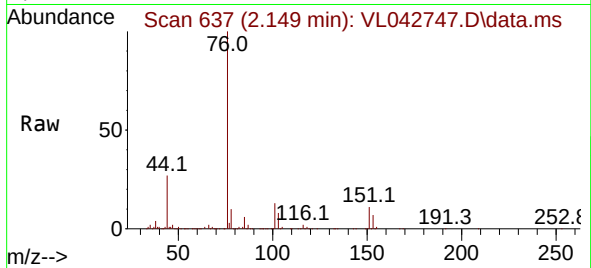
Tgt Ion: 57 Resp: 203800
Ion Ratio Lower Upper
57 100
41 94.3 75.4 113.2
43 231.3 185.0 277.6
56 53.6 42.9 64.3





#27
Carbon Disulfide
Concen: 9.480 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

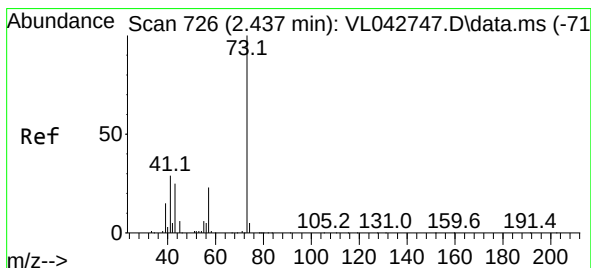
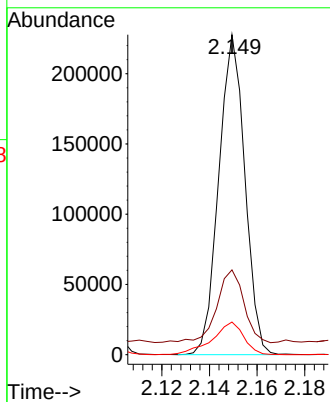
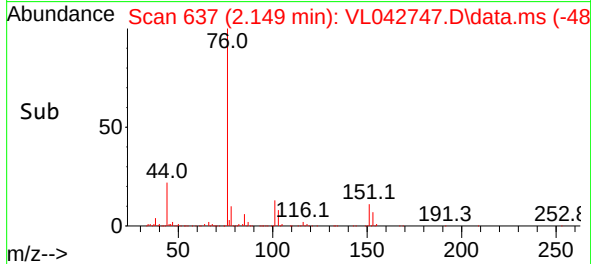
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 76 Resp: 17310
Ion Ratio Lower Upper
76 100
44 24.1 19.3 28.9
78 12.4 9.9 14.9

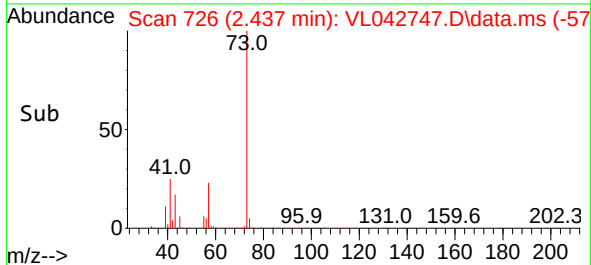
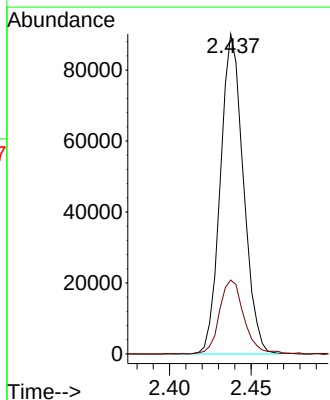
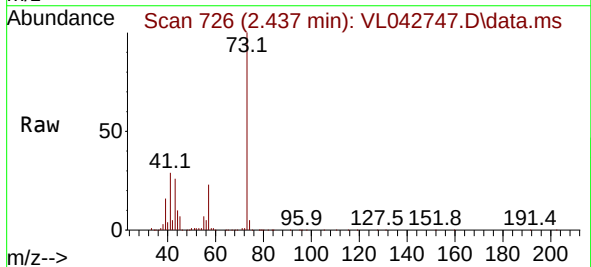
Manual Integrations
APPROVED

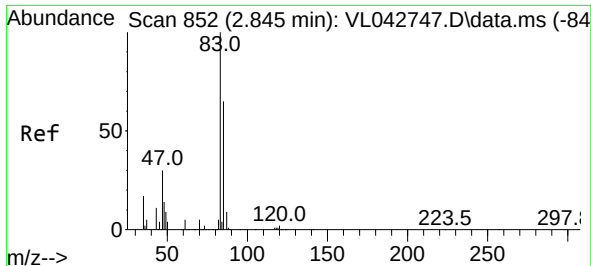
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 8.770 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

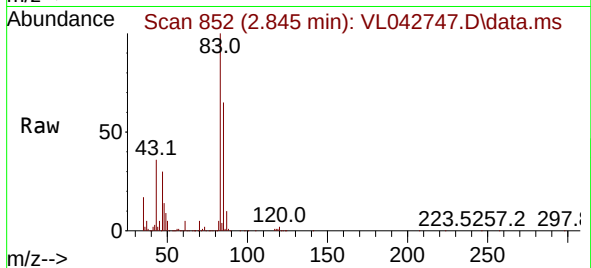
Tgt Ion: 73 Resp: 88372
Ion Ratio Lower Upper
73 100
57 24.8 19.8 29.8





#29
Chloroform
Concen: 9.244 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

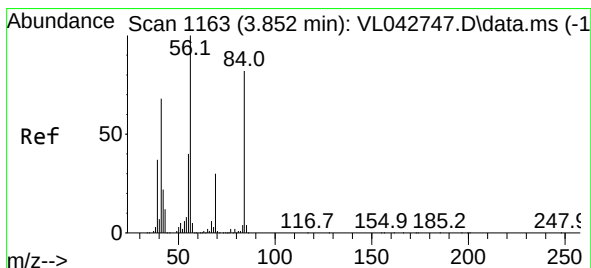
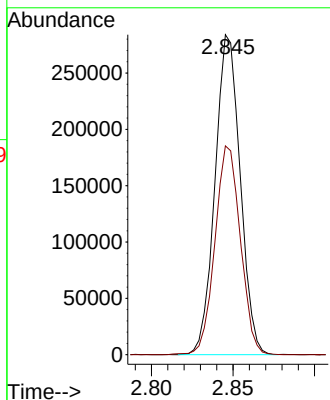
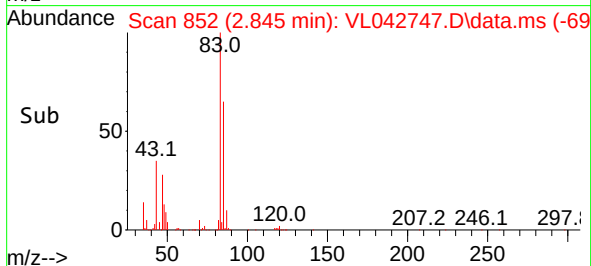
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 304670
Ion Ratio Lower Upper
83 100
85 65.2 52.2 78.2

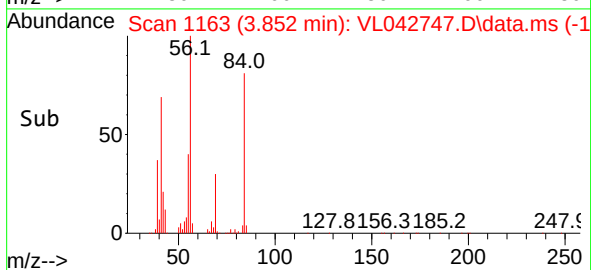
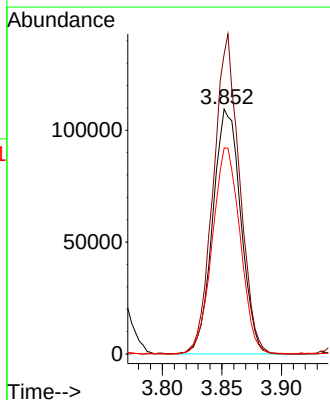
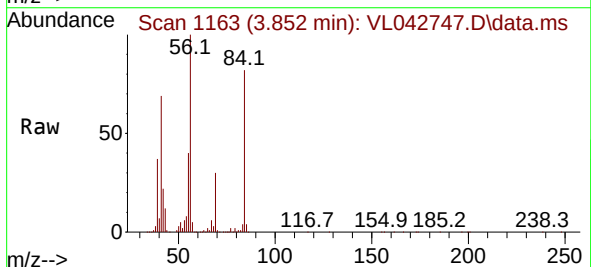
Manual Integrations
APPROVED

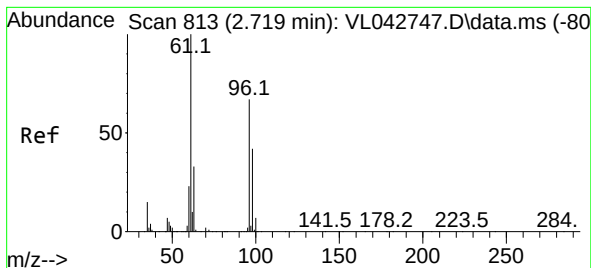
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#30
Cyclohexane
Concen: 9.892 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 178948
Ion Ratio Lower Upper
84 100
56 121.9 97.5 146.3
41 84.0 67.2 100.8





#31

cis-1,2-Dichloroethene

Concen: 9.479 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 61 Resp: 20775

Ion Ratio Lower Upper

61 100

96 66.9 53.5 80.3

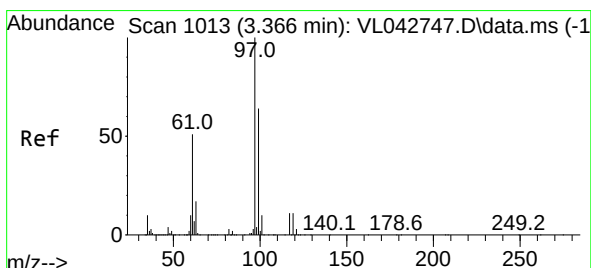
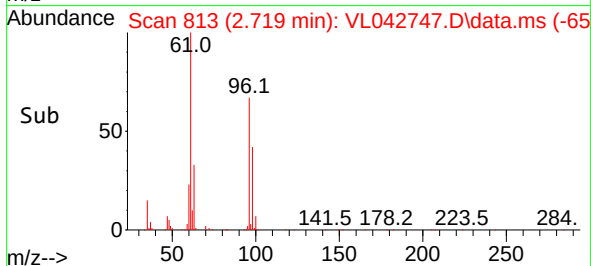
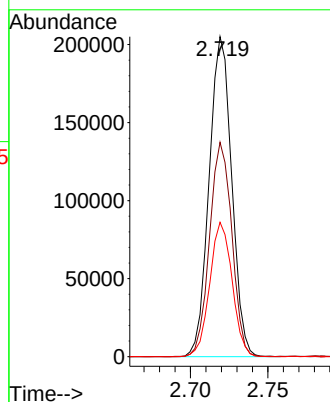
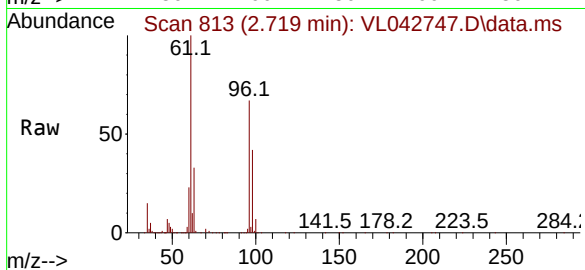
98 42.0 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#32

1,1,1-Trichloroethane

Concen: 9.069 ppbv

RT: 3.366 min Scan# 1013

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

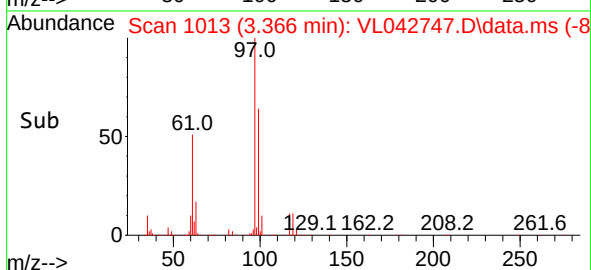
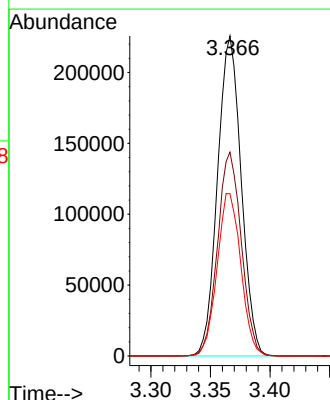
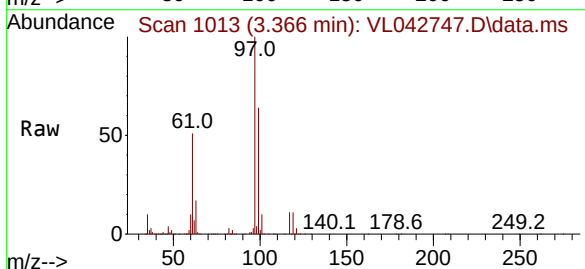
Tgt Ion: 97 Resp: 311368

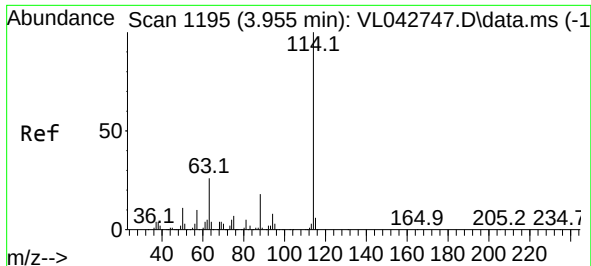
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

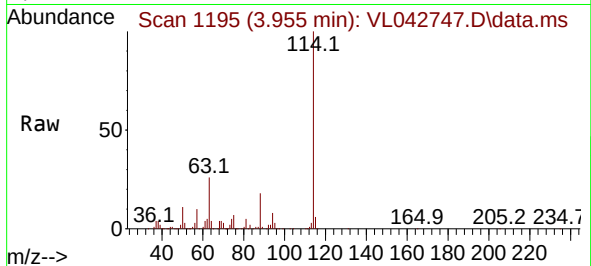
61 51.1 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

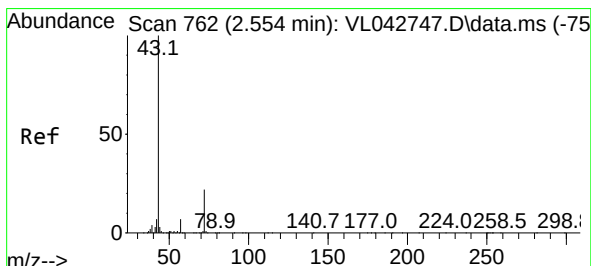
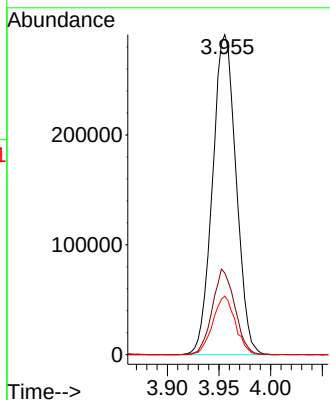
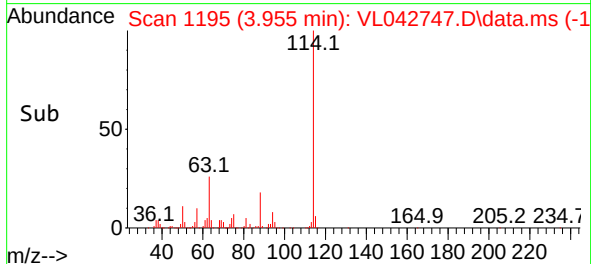
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



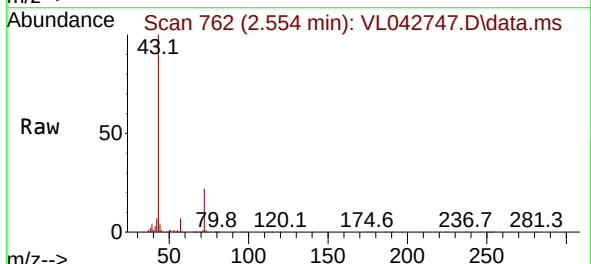
Tgt Ion:114 Resp: 462763
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.5 14.0 21.0

Manual Integrations
APPROVED

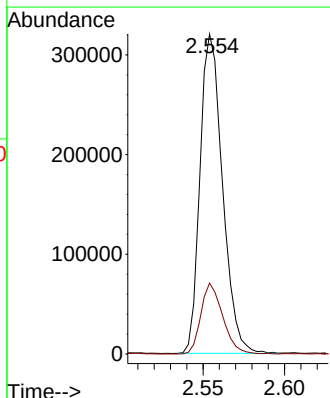
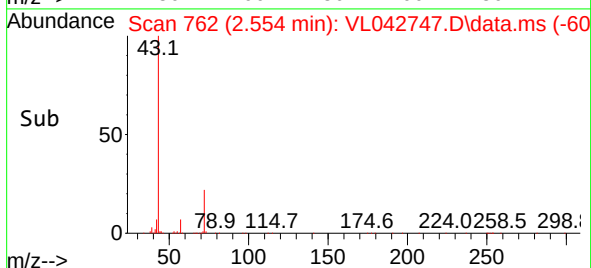
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

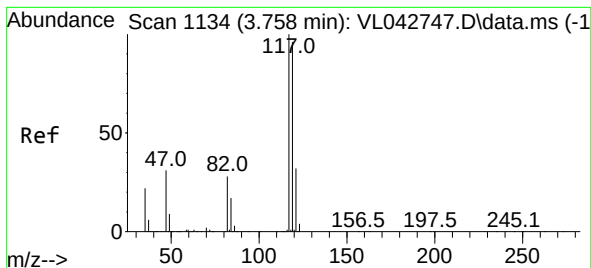


#34
2-Butanone
Concen: 9.361 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 43 Resp: 306858
Ion Ratio Lower Upper
43 100
72 21.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 9.436 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:117 Resp: 32450

Ion Ratio Lower Upper

117 100

119 96.4 77.1 115.7

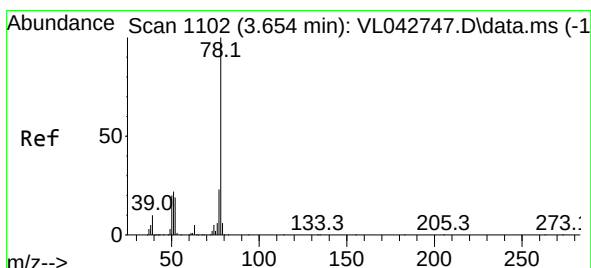
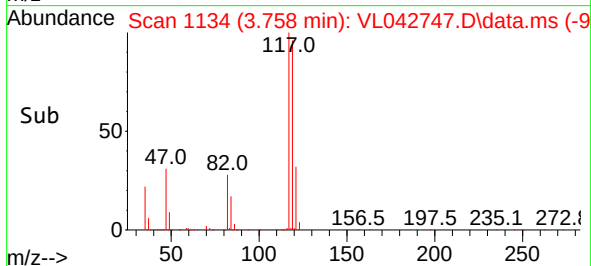
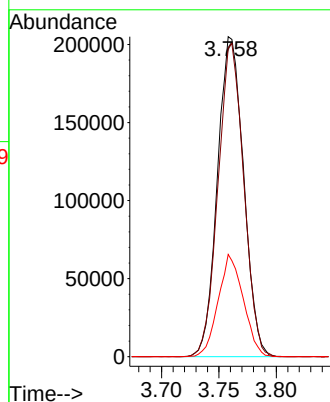
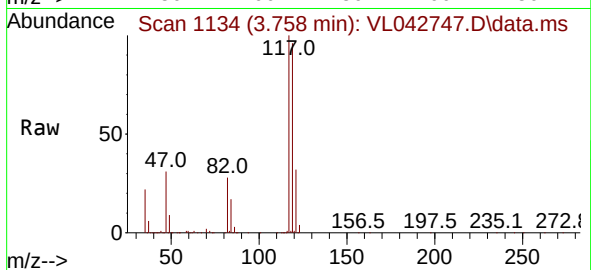
121 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#36

Benzene

Concen: 9.459 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

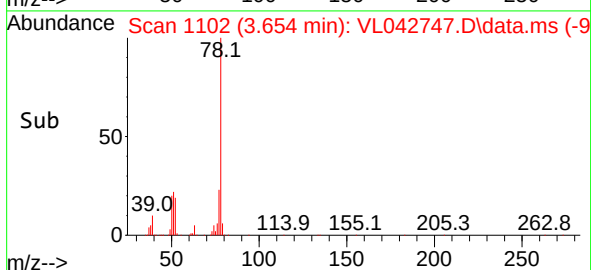
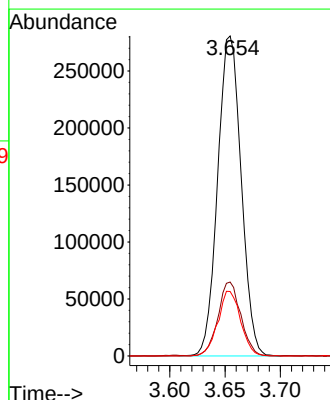
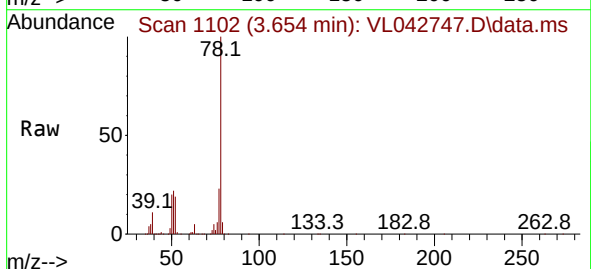
Tgt Ion: 78 Resp: 414863

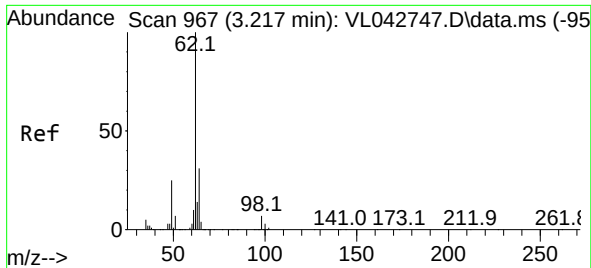
Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7

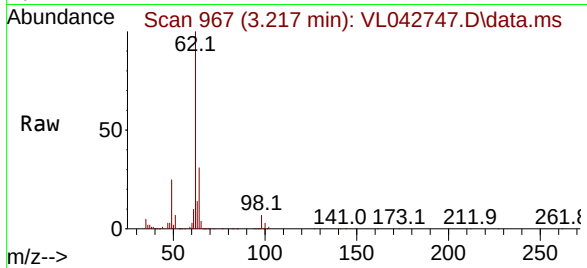
50 20.2 16.2 24.2





#37
1,2-Dichloroethane
Concen: 9.403 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

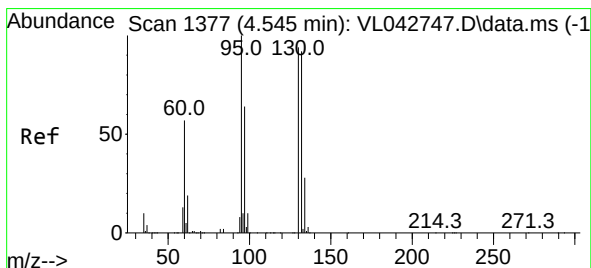
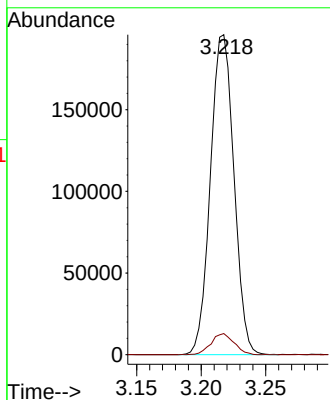
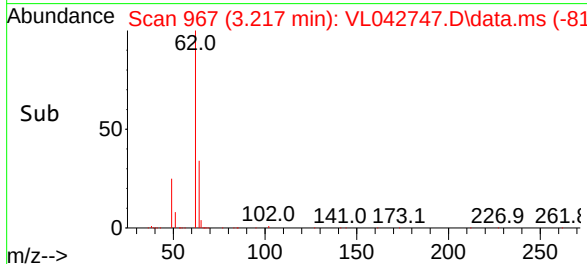
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



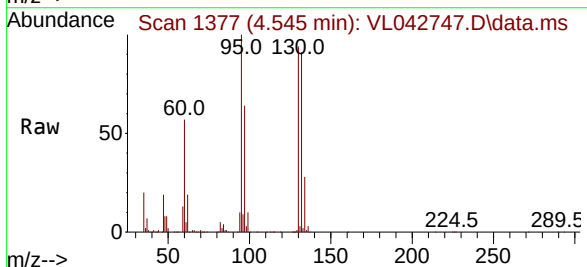
Tgt Ion: 62 Resp: 248414
Ion Ratio Lower Upper
62 100
98 6.5 5.2 7.8

Manual Integrations
APPROVED

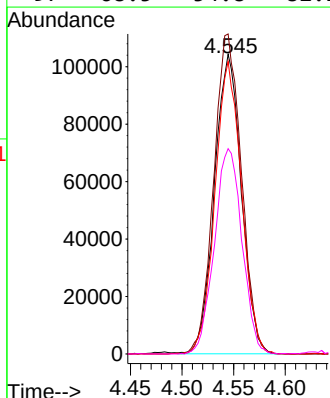
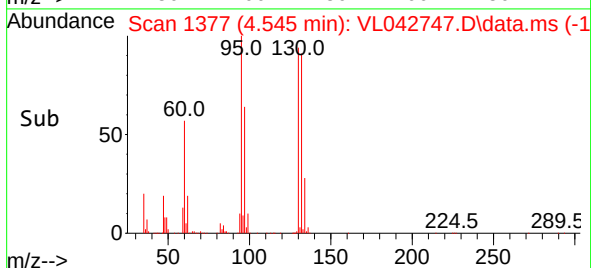
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

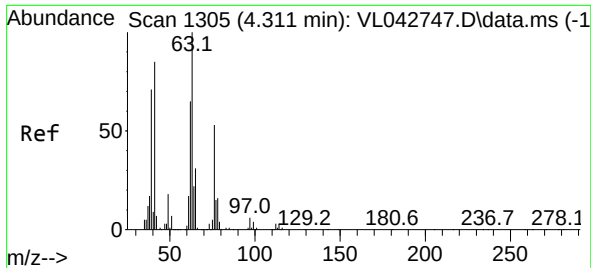


#38
Trichloroethene
Concen: 8.926 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



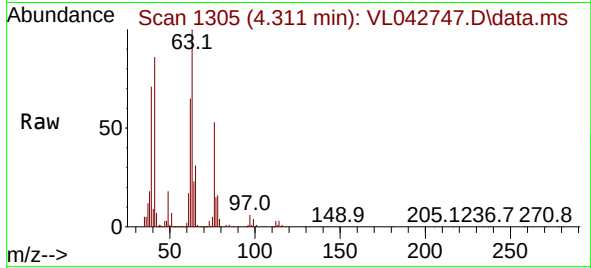
Tgt Ion:130 Resp: 188750
Ion Ratio Lower Upper
130 100
95 106.8 85.4 128.2
132 97.7 78.2 117.2
97 68.5 54.8 82.2





#39
1,2-Dichloropropane
Concen: 9.251 ppbv
RT: 4.311 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

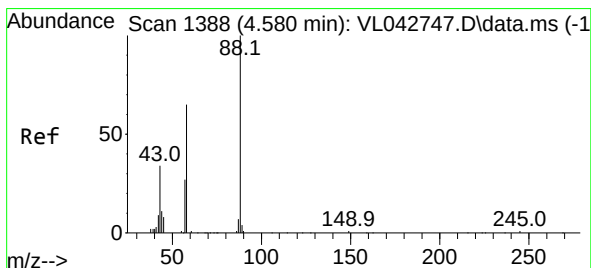
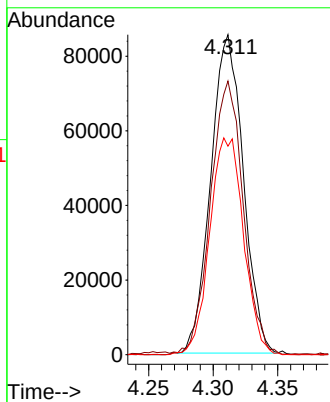
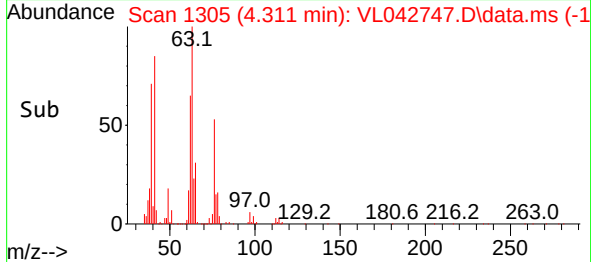
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 63 Resp: 14977
Ion Ratio Lower Upper
63 100
41 85.3 68.2 102.4
62 65.0 52.0 78.0

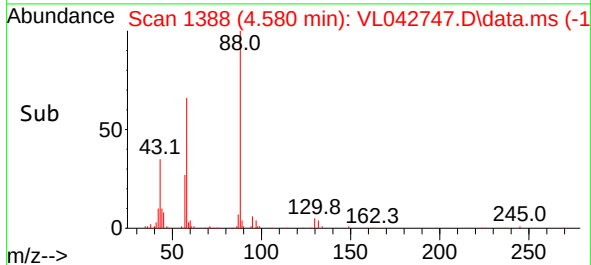
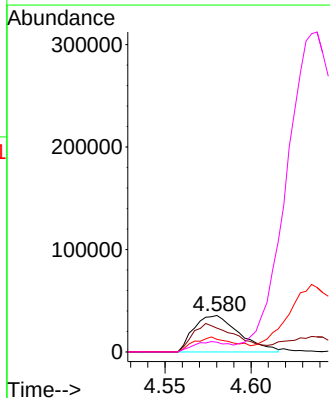
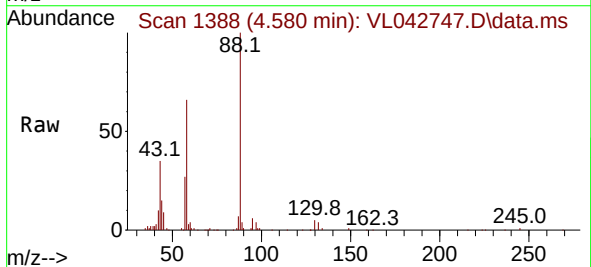
Manual Integrations
APPROVED

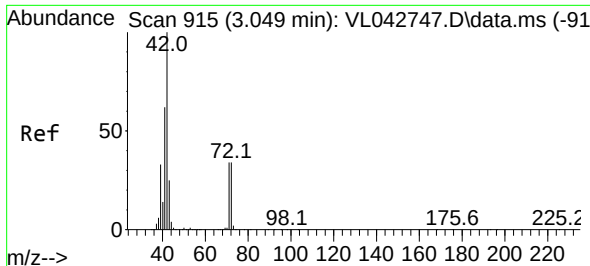
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#40
1,4-Dioxane
Concen: 8.569 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

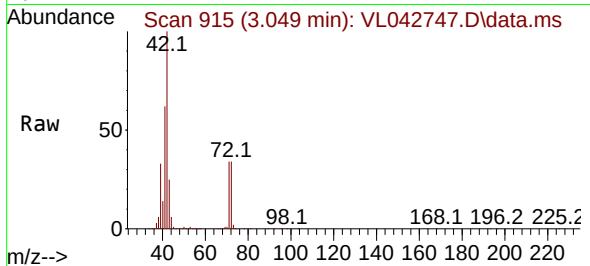
Tgt Ion: 88 Resp: 65413
Ion Ratio Lower Upper
88 100
58 73.5 58.8 88.2
43 36.1 28.9 43.3
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.160 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

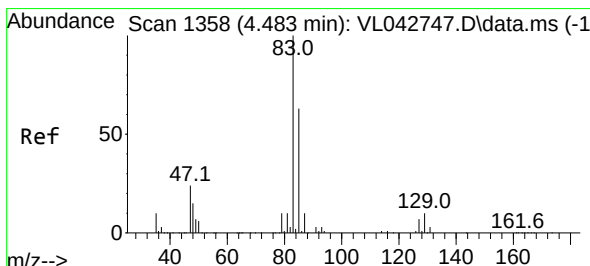
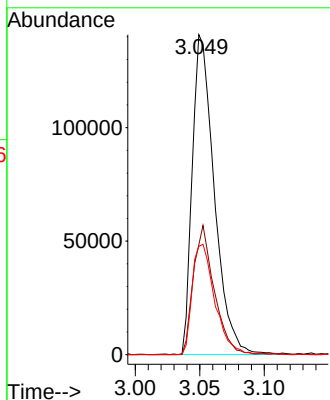
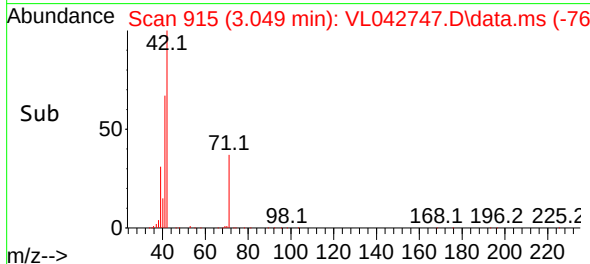
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



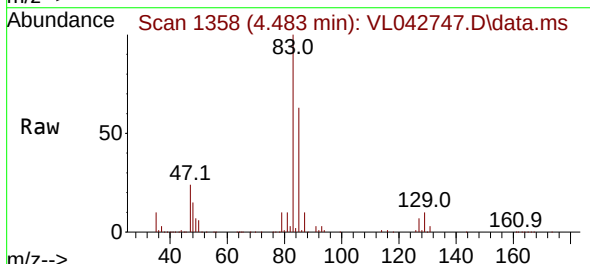
Tgt Ion: 42 Resp: 16732
Ion Ratio Lower Upper
42 100
72 38.6 30.9 46.3
71 35.8 28.6 43.0

Manual Integrations
APPROVED

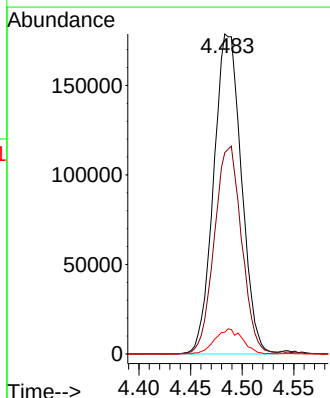
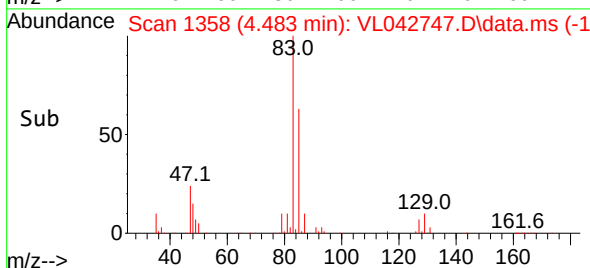
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

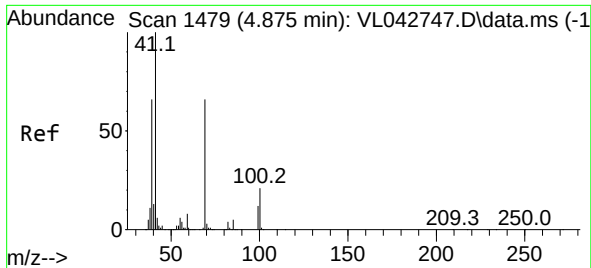


#42
Bromodichloromethane
Concen: 9.713 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 83 Resp: 334531
Ion Ratio Lower Upper
83 100
85 62.8 50.2 75.4
127 6.8 5.4 8.2





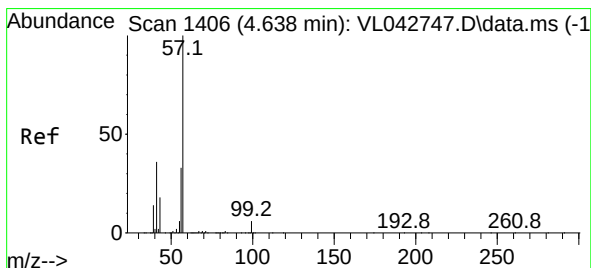
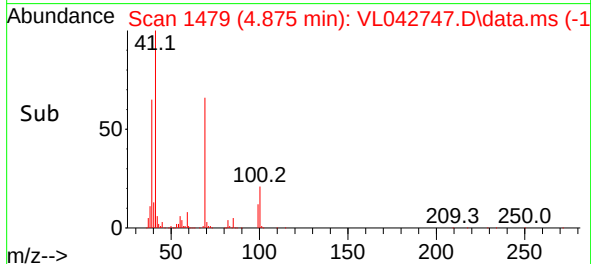
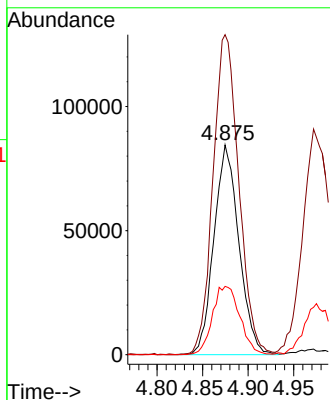
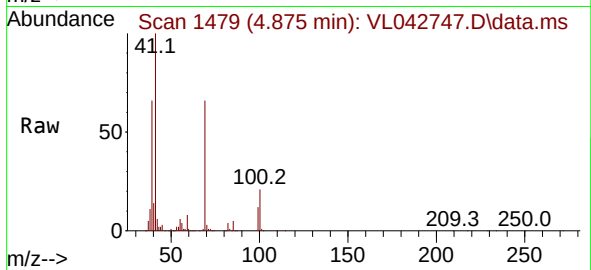
#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 16105
Ion Ratio Lower Upper
69 100
41 157.1 125.7 188.5
100 35.7 28.6 42.8

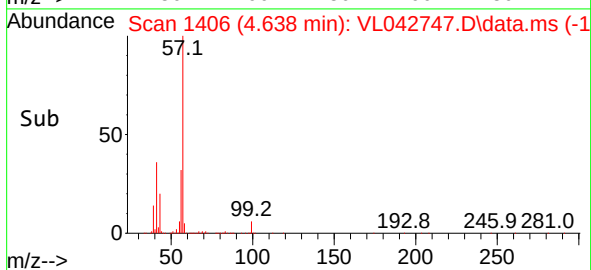
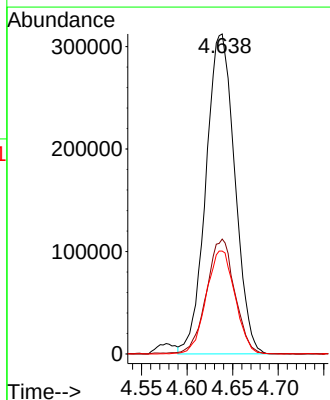
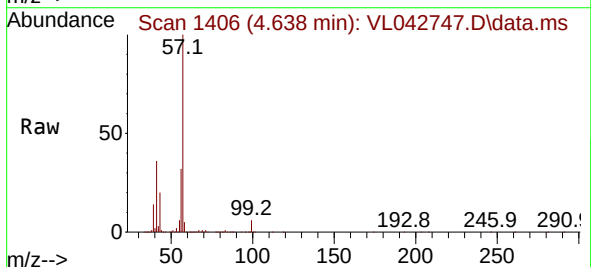
Manual Integrations
APPROVED

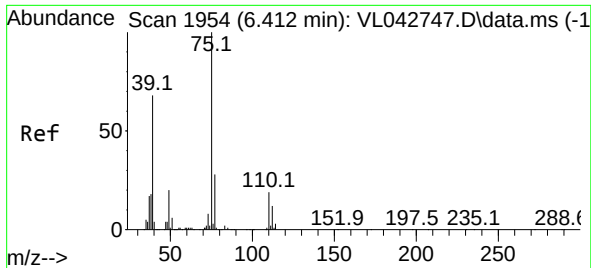
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#44
2,2,4-Trimethylpentane
Concen: 9.623 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 687885
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.2 25.8 38.6





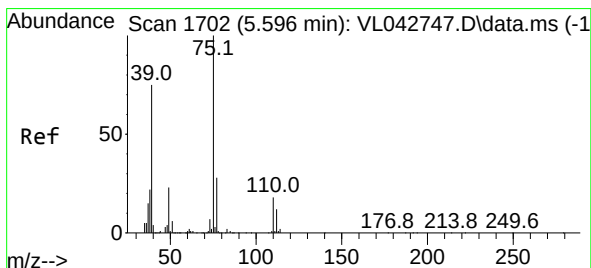
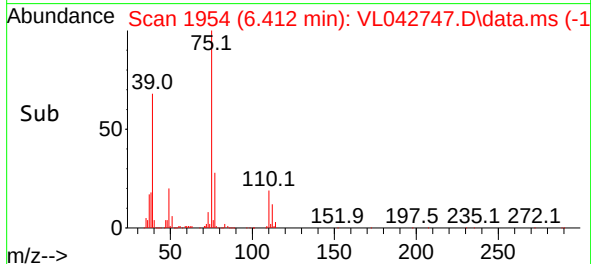
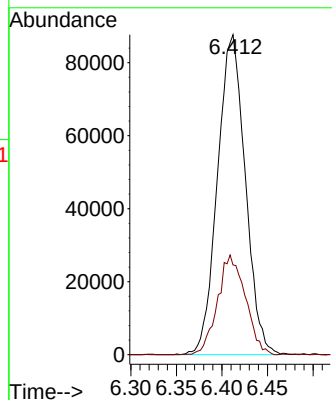
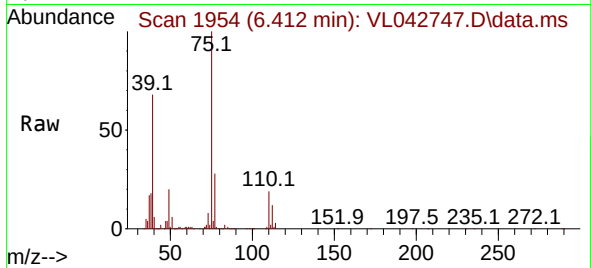
#45
 t-1,3-Dichloropropene
 Concen: 10.633 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 75 Resp: 18596
 Ion Ratio Lower Upper
 75 100
 77 28.0 22.4 33.6

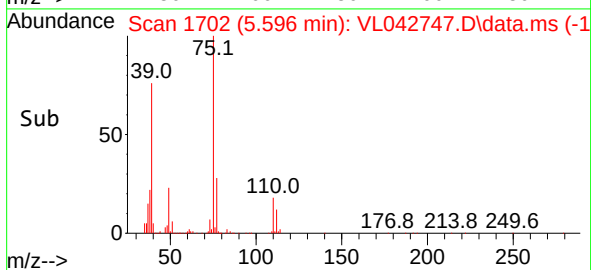
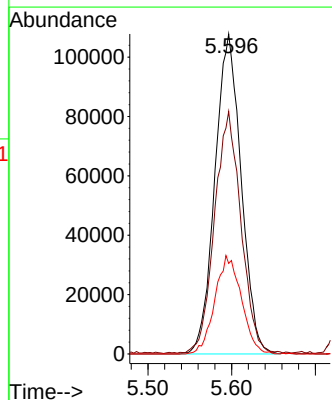
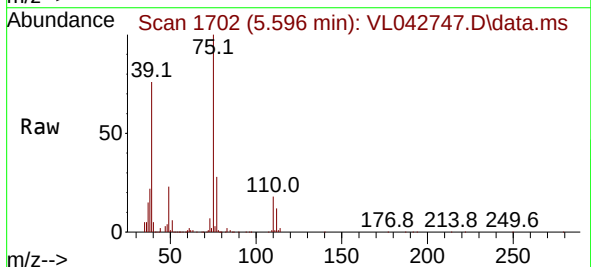
Manual Integrations
 APPROVED

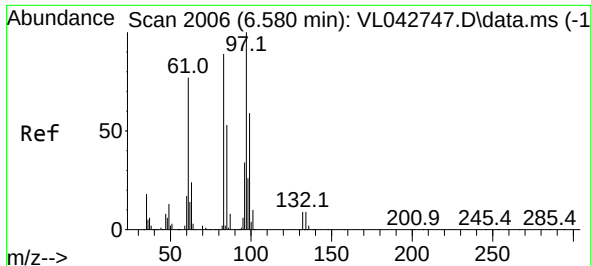
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#46
 cis-1,3-Dichloropropene
 Concen: 10.587 ppbv
 RT: 5.596 min Scan# 1702
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 234594
 Ion Ratio Lower Upper
 75 100
 39 75.2 60.2 90.2
 77 28.3 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 9.297 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 16043

Ion Ratio Lower Upper

97 100

83 88.9 71.1 106.7

85 53.7 43.0 64.4

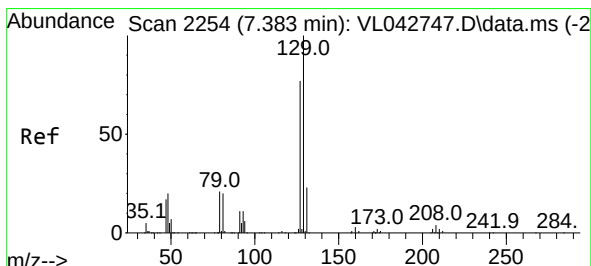
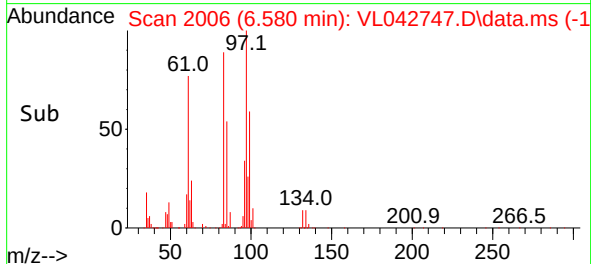
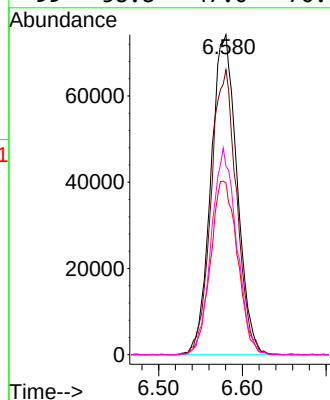
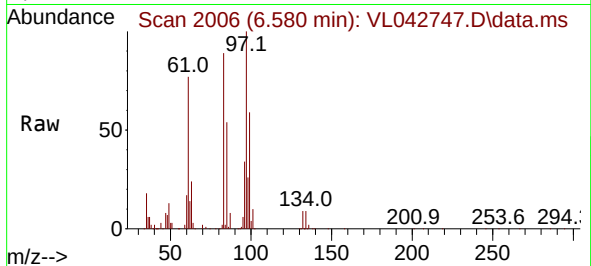
99 58.8 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#48

Dibromochloromethane

Concen: 10.141 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042747.D

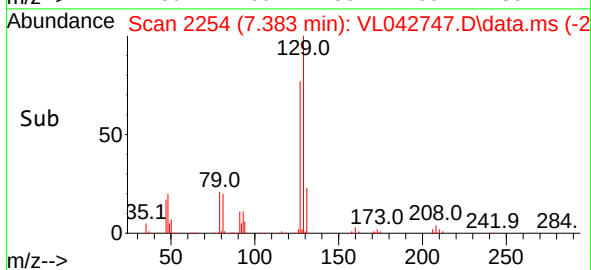
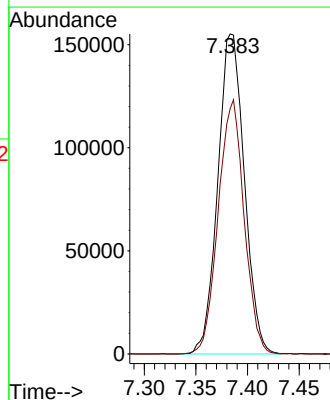
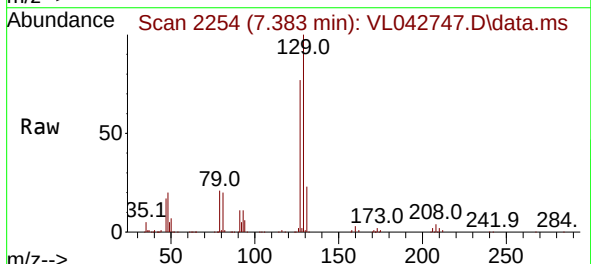
Acq: 23 Jul 2025 08:58

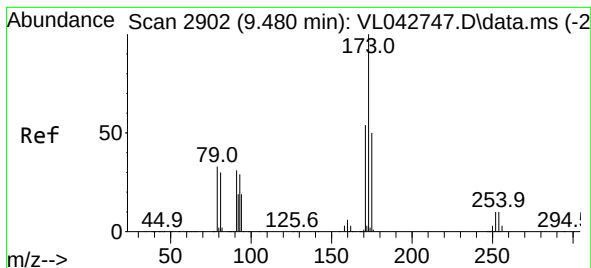
Tgt Ion:129 Resp: 277832

Ion Ratio Lower Upper

129 100

127 77.4 38.7 116.1





#49

Bromoform

Concen: 10.256 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:173 Resp: 24499

Ion Ratio Lower Upper

173 100

175 48.0 38.4 57.6

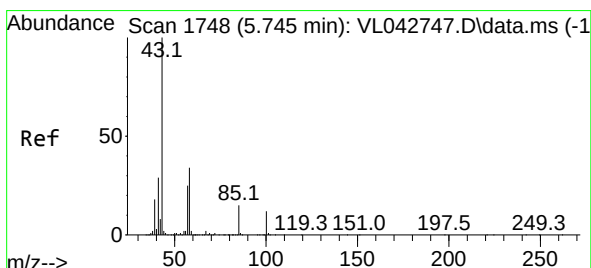
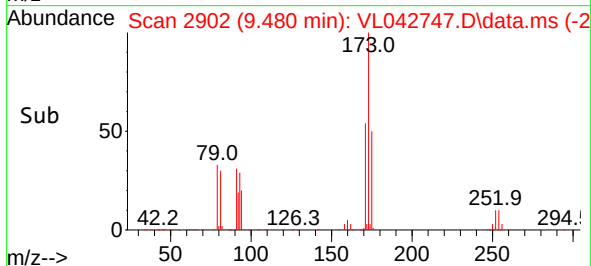
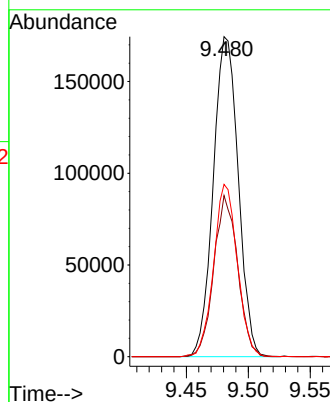
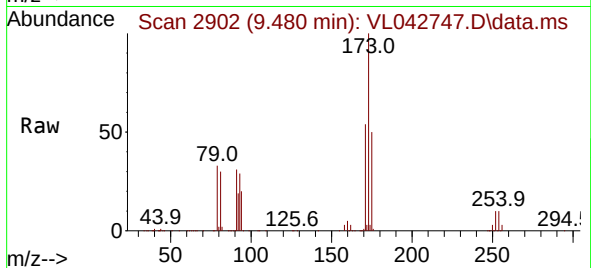
171 51.1 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 9.914 ppbv

RT: 5.745 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VL042747.D

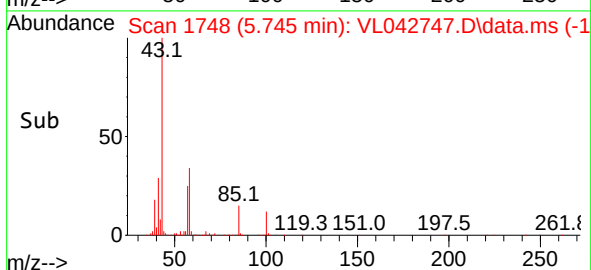
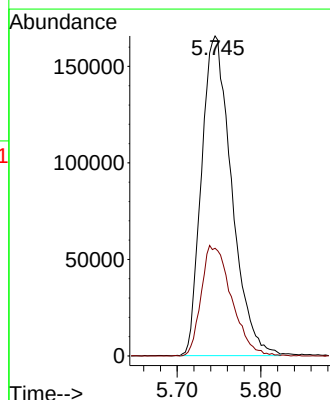
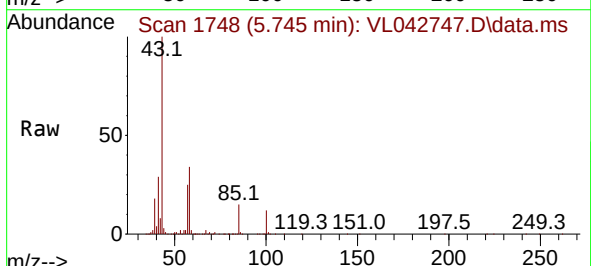
Acq: 23 Jul 2025 08:58

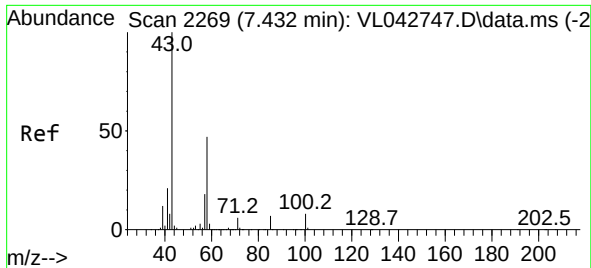
Tgt Ion: 43 Resp: 413966

Ion Ratio Lower Upper

43 100

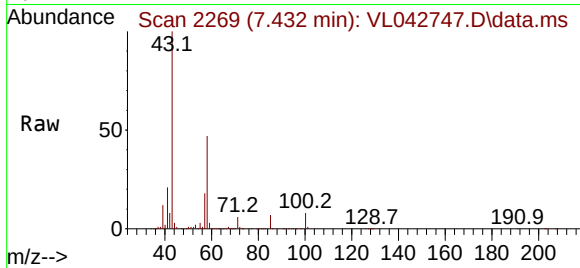
58 34.8 27.8 41.8





#51
2-Hexanone
Concen: 10.532 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

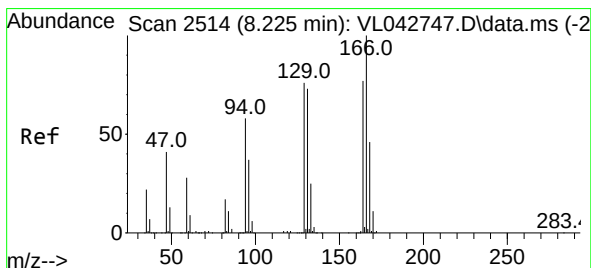
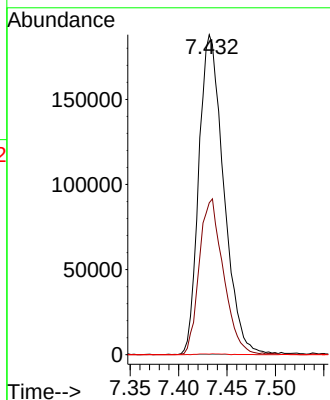
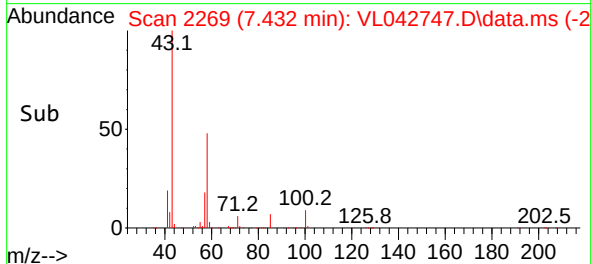
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



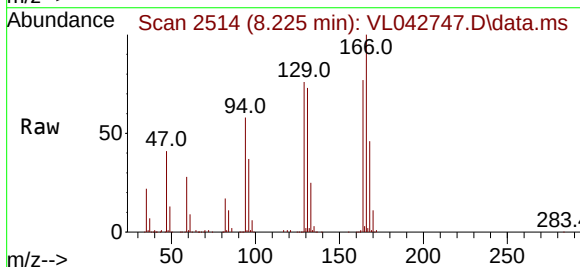
Tgt Ion: 43 Resp: 33604
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 0.3 0.2 0.4

Manual Integrations
APPROVED

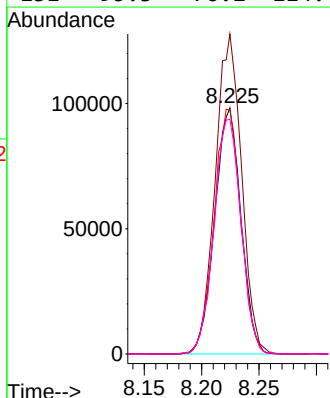
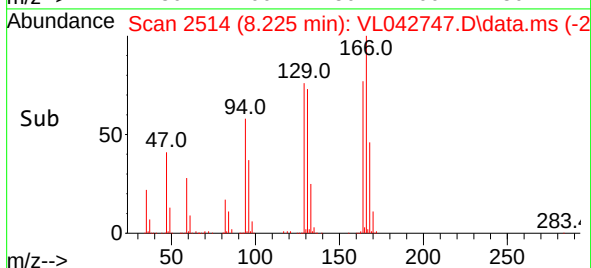
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

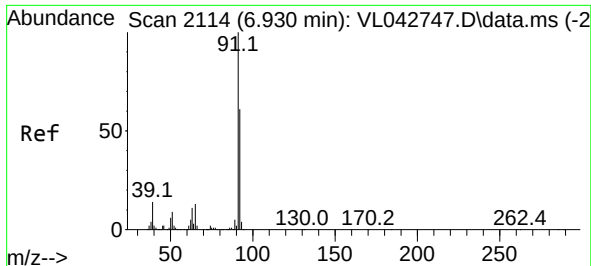


#52
Tetrachloroethene
Concen: 8.609 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:164 Resp: 156930
Ion Ratio Lower Upper
164 100
166 130.0 104.0 156.0
129 99.0 79.2 118.8
131 95.3 76.2 114.4





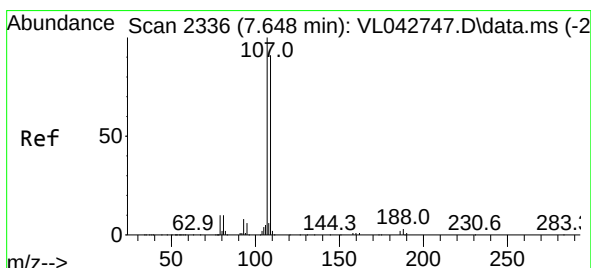
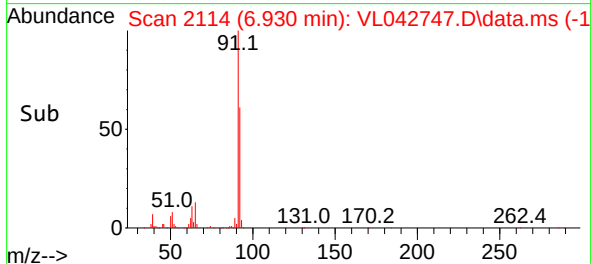
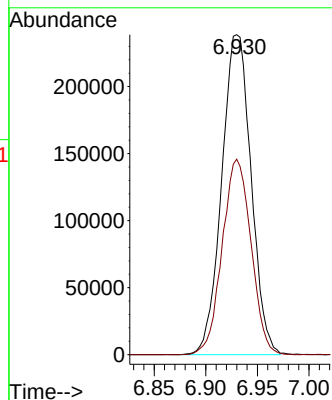
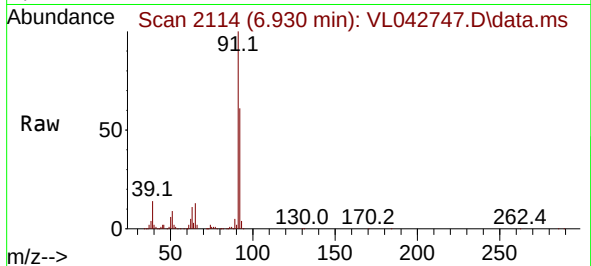
#53
Toluene
Concen: 10.042 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 47295
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0

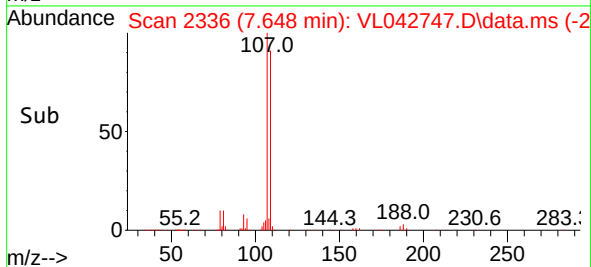
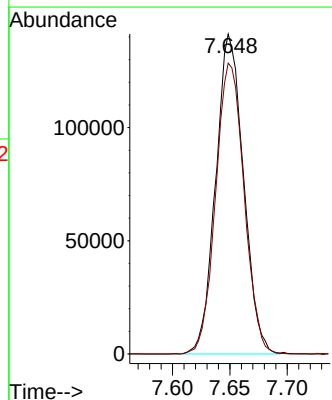
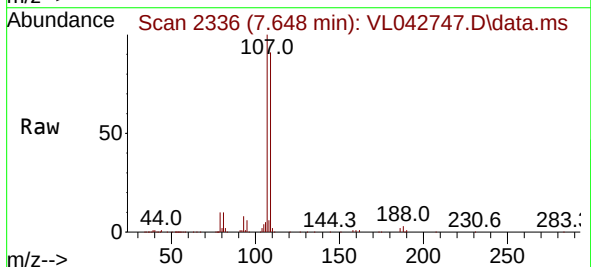
Manual Integrations
APPROVED

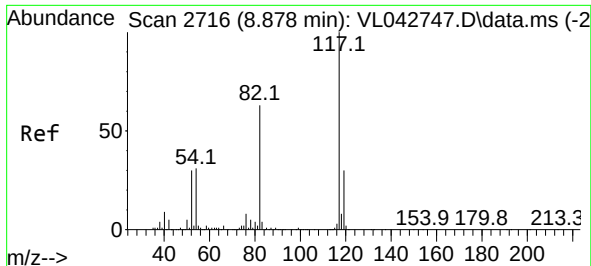
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 9.745 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

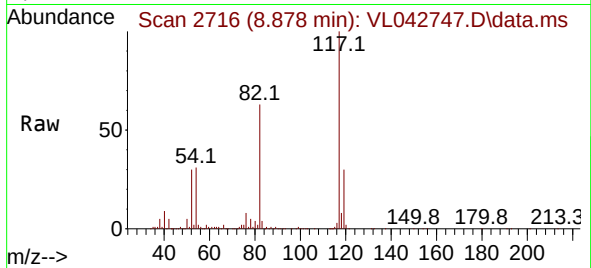
Tgt Ion:107 Resp: 238045
Ion Ratio Lower Upper
107 100
109 90.9 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

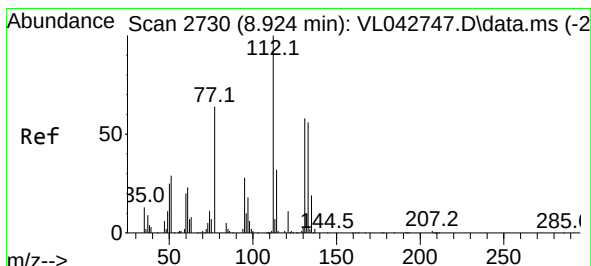
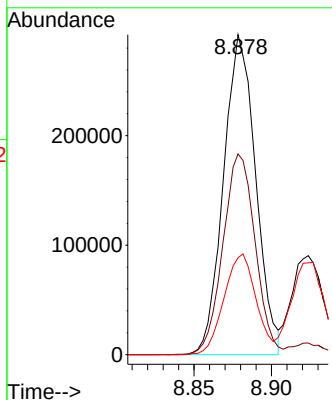
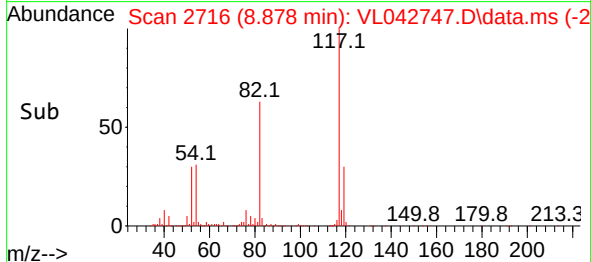
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 422200
Ion Ratio Lower Upper
117 100
82 66.6 53.3 79.9
119 32.2 25.8 38.6

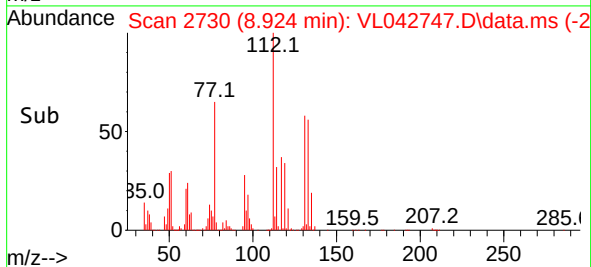
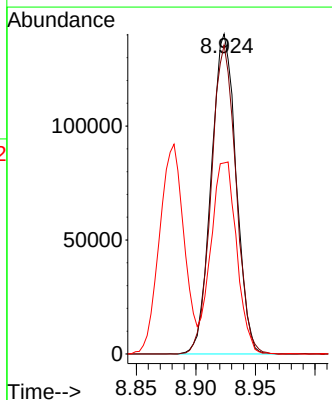
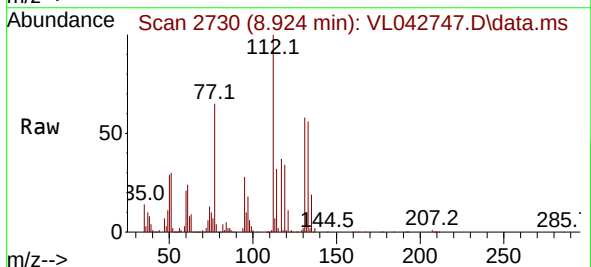
Manual Integrations
APPROVED

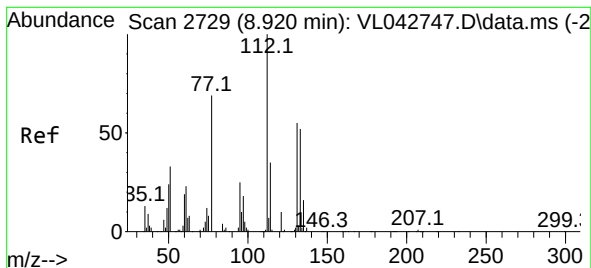
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.302 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:131 Resp: 204205
Ion Ratio Lower Upper
131 100
133 96.0 76.8 115.2
119 62.1 49.7 74.5





#57

Chlorobenzene

Concen: 9.082 ppbv

RT: 8.920 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

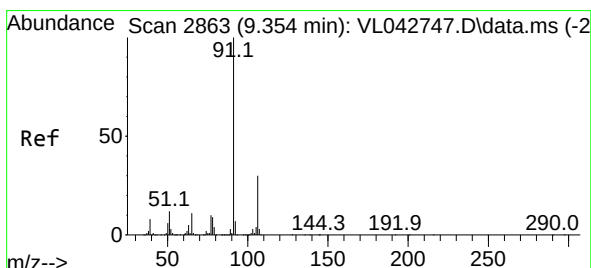
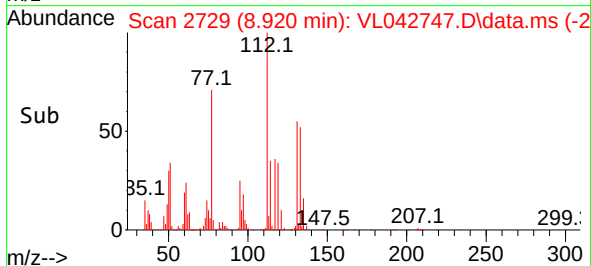
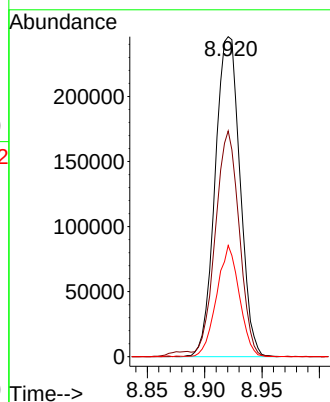
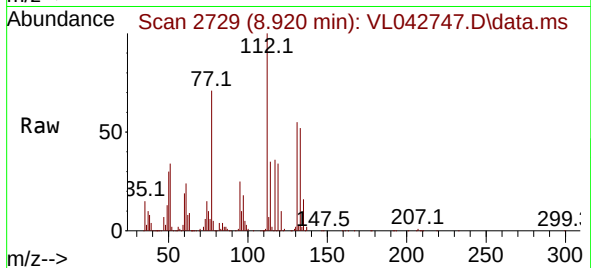
VSTDICCC010

Tgt Ion:	112	Resp:	37111
Ion Ratio	Lower	Upper	
112	100		
77	70.5	56.4	84.6
114	34.7	31.2	38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58

Ethyl Benzene

Concen: 9.824 ppbv

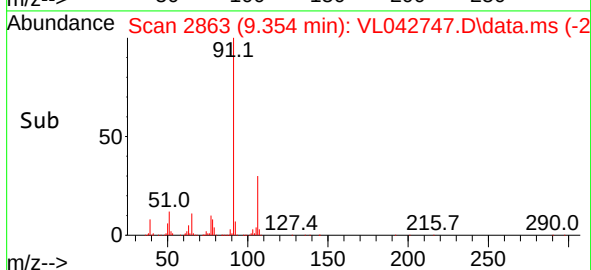
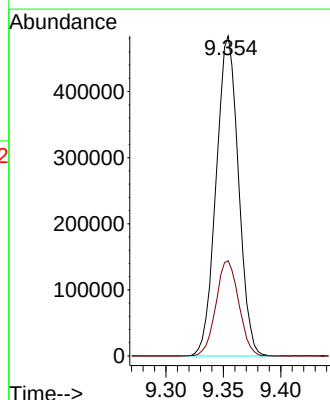
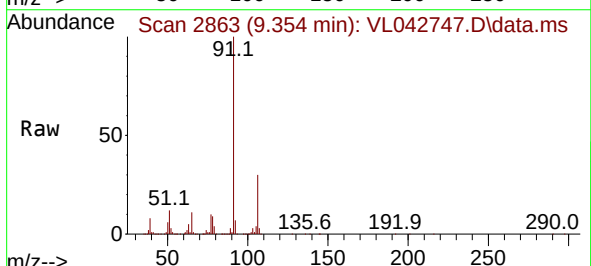
RT: 9.354 min Scan# 2863

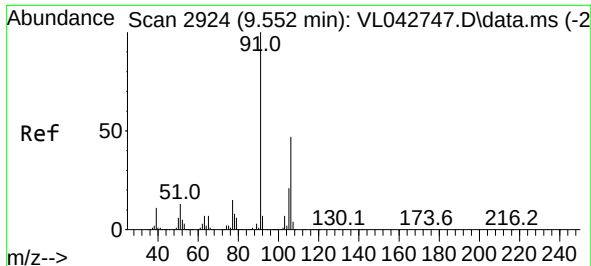
Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:	91	Resp:	655020
Ion Ratio	Lower	Upper	
91	100		
106	29.7	23.8	35.6





#59

m/p-Xylene

Concen: 19.555 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 104233

Ion Ratio Lower Upper

91 100

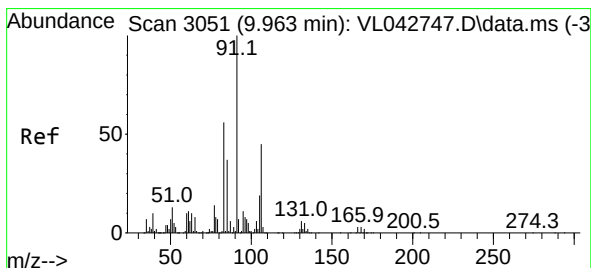
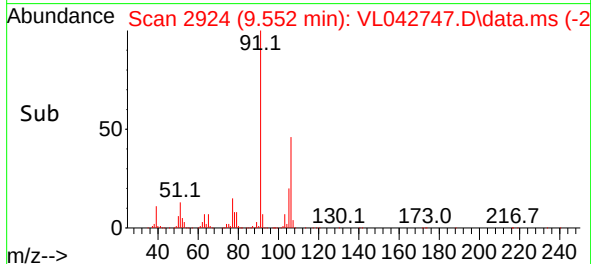
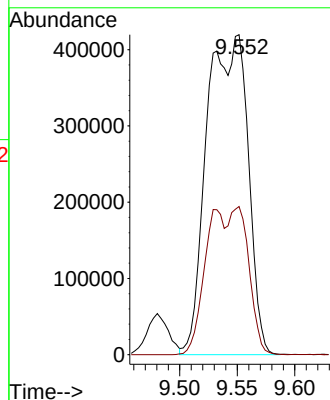
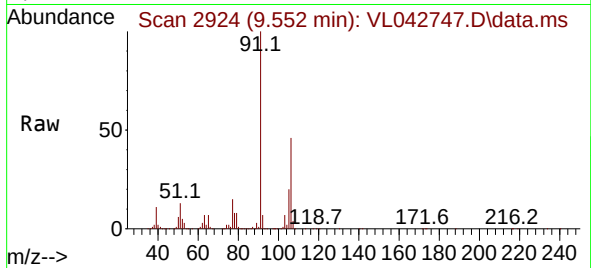
106 46.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#60

o-Xylene

Concen: 9.715 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042747.D

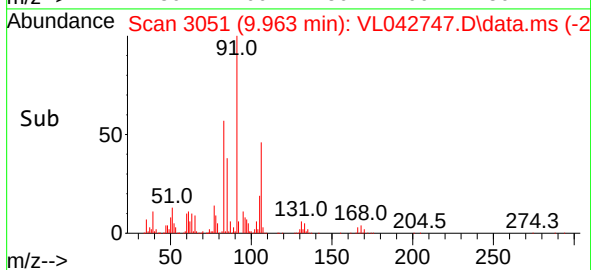
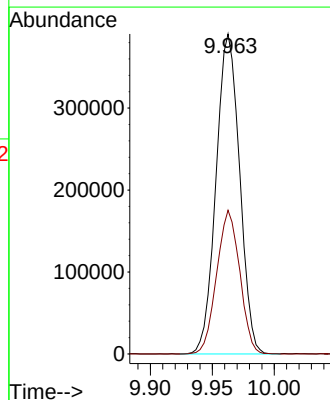
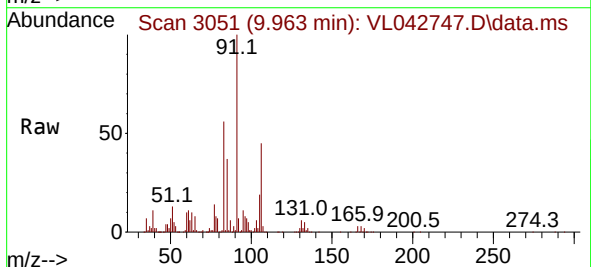
Acq: 23 Jul 2025 08:58

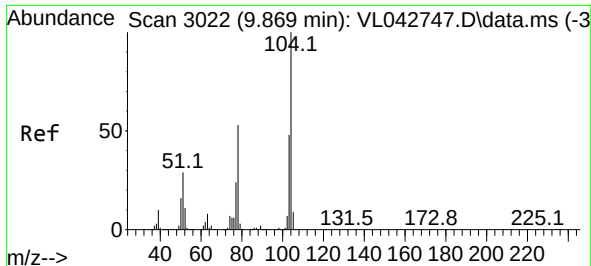
Tgt Ion: 91 Resp: 517292

Ion Ratio Lower Upper

91 100

106 44.0 22.0 66.0





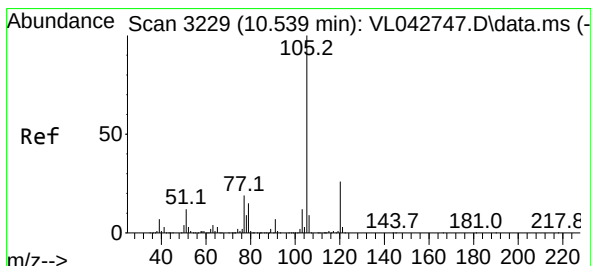
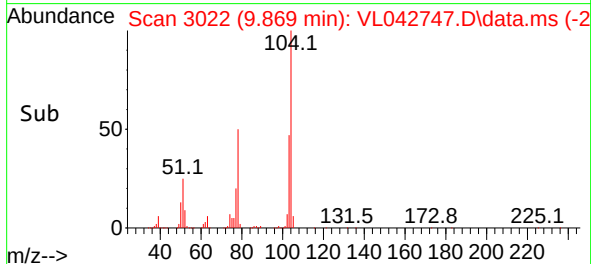
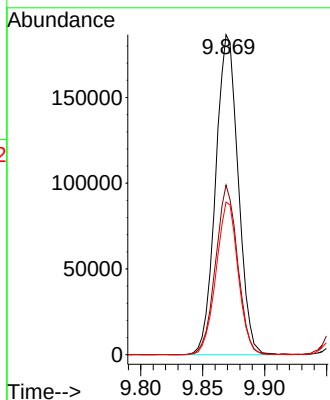
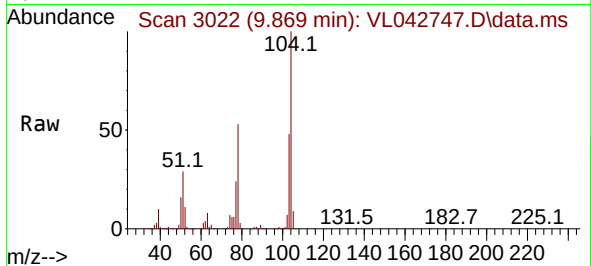
#61
Styrene
Concen: 10.568 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 236709
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 46.9 37.5 56.3

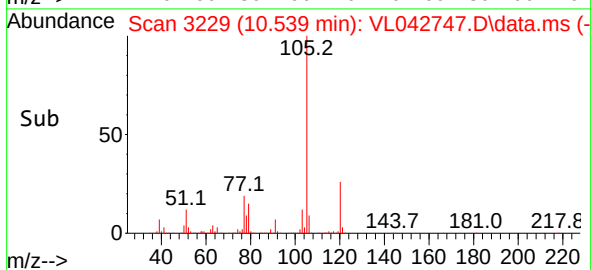
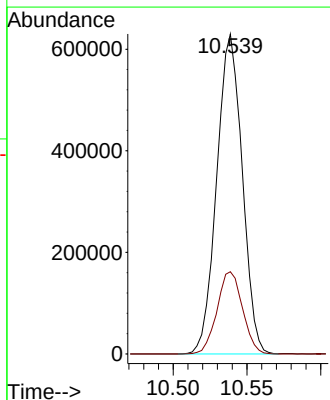
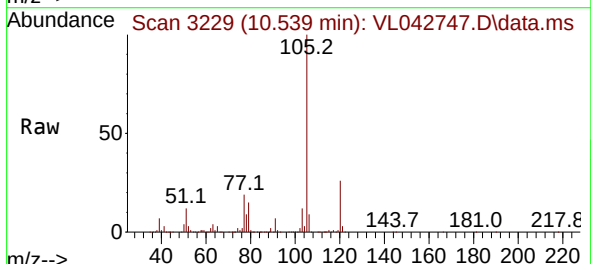
Manual Integrations
APPROVED

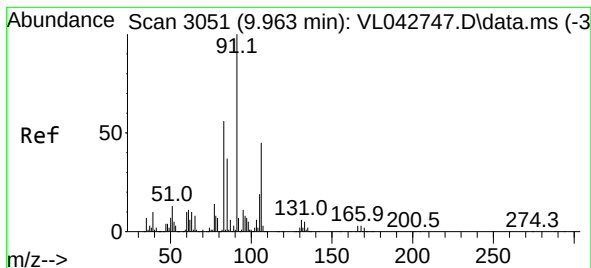
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 9.641 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

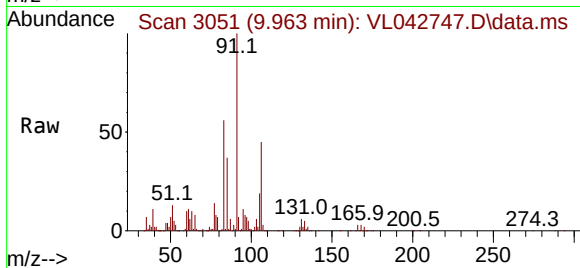
Tgt Ion:105 Resp: 757219
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 8.434 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

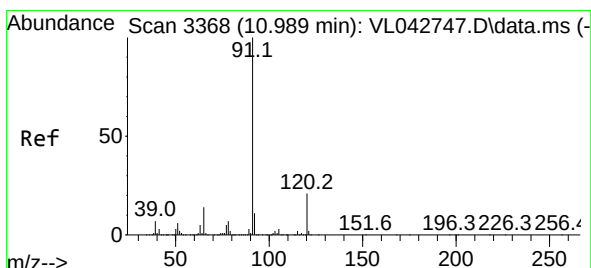
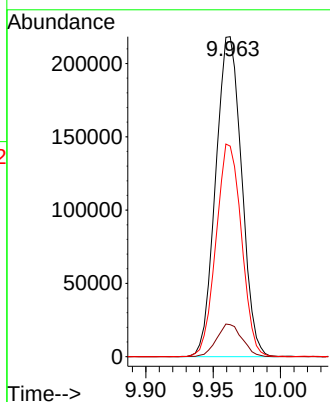
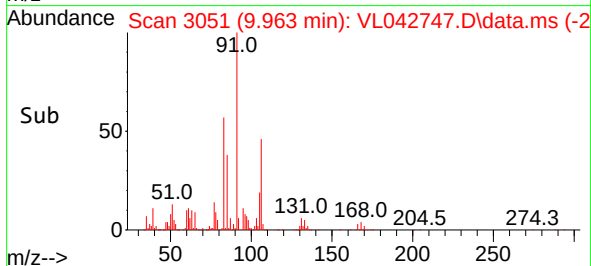
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



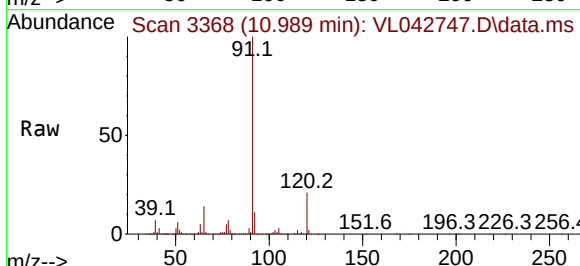
Tgt Ion: 83 Resp: 29256
Ion Ratio Lower Upper
83 100
131 10.0 5.0 15.0
85 65.1 32.6 97.7

Manual Integrations
APPROVED

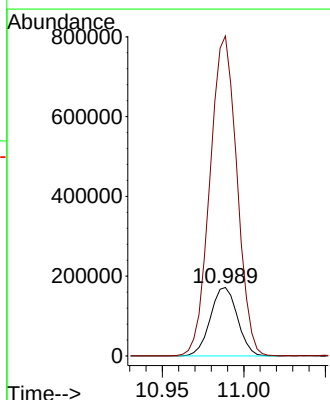
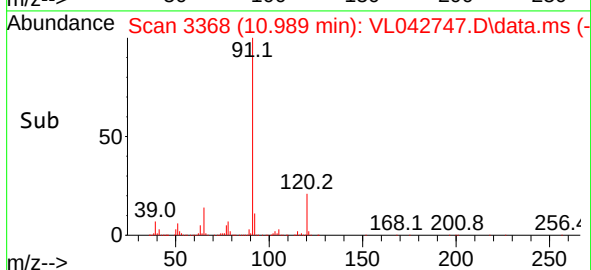
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

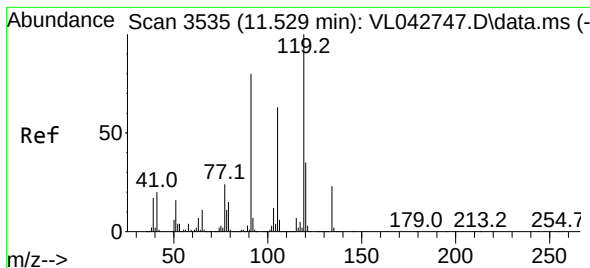


#64
n-propylbenzene
Concen: 9.675 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:120 Resp: 198109
Ion Ratio Lower Upper
120 100
91 465.9 372.7 559.1





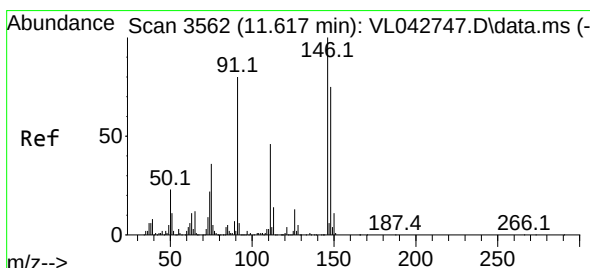
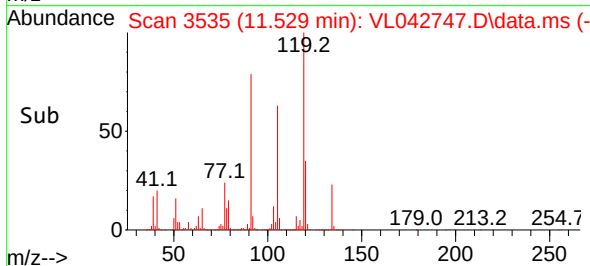
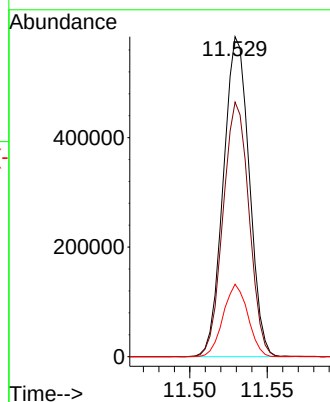
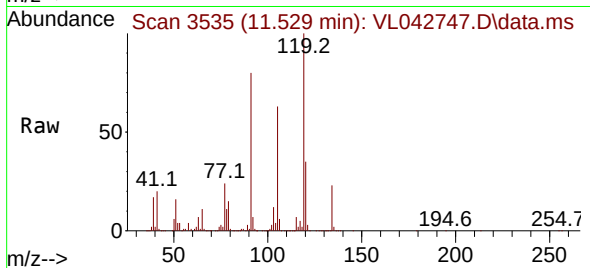
#65
tert-Butylbenzene
Concen: 9.721 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 678174
Ion Ratio Lower Upper
119 100
91 80.0 64.0 96.0
134 21.6 17.3 25.9

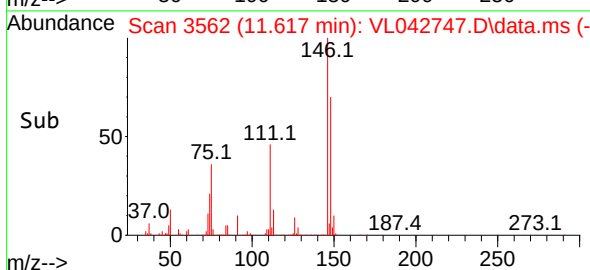
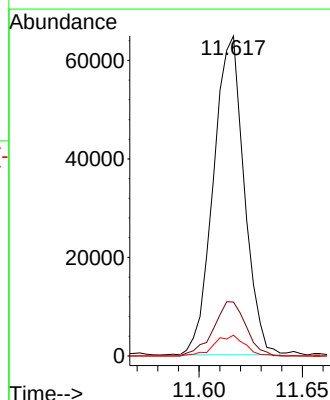
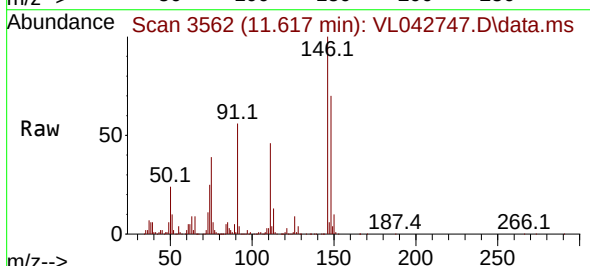
Manual Integrations
APPROVED

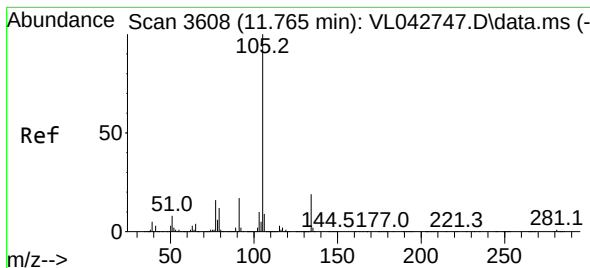
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 11.691 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

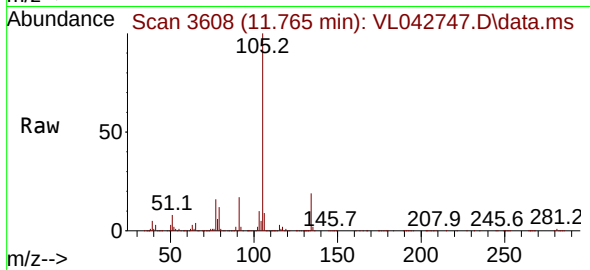
Tgt Ion: 91 Resp: 66954
Ion Ratio Lower Upper
91 100
126 18.0 14.4 21.6
128 6.5 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 9.468 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

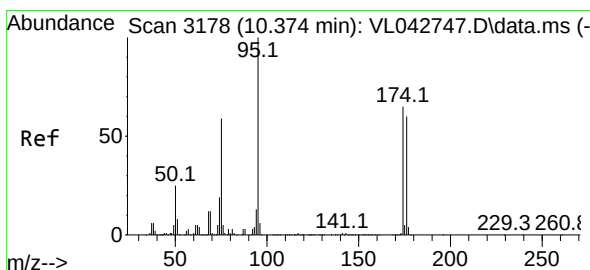
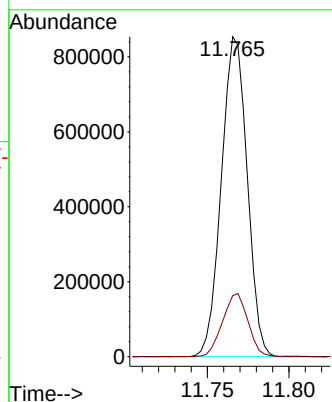
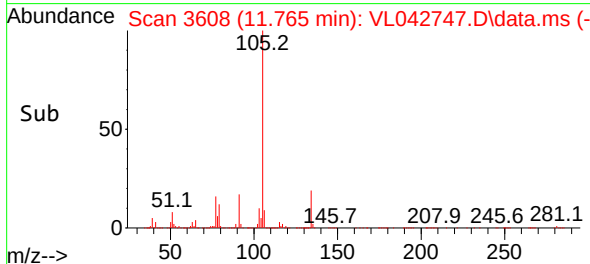
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



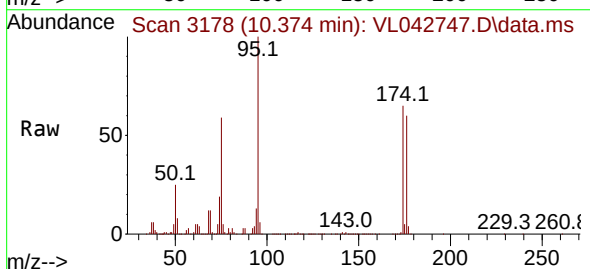
Tgt Ion:105 Resp: 939390
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

Manual Integrations
 APPROVED

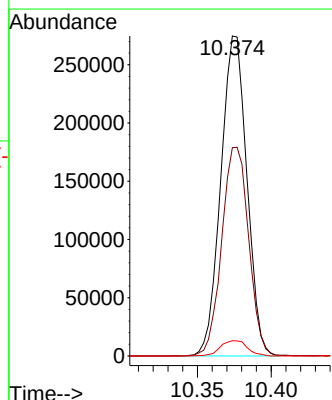
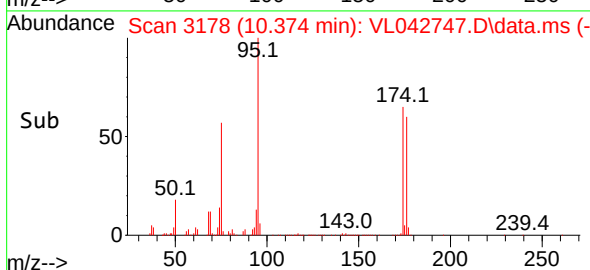
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

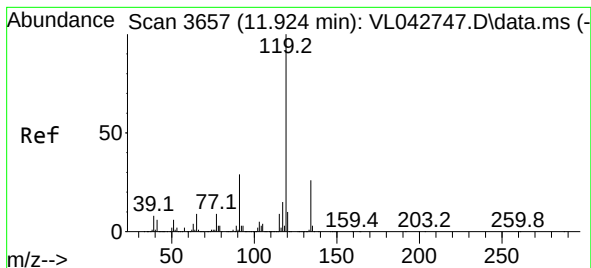


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.117 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58



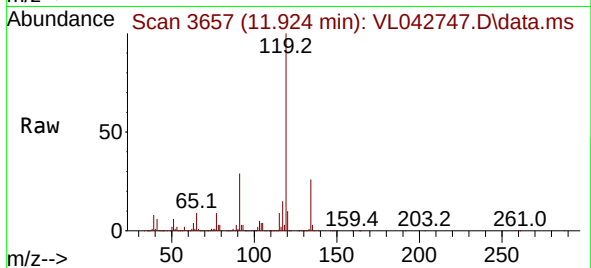
Tgt Ion: 95 Resp: 338271
 Ion Ratio Lower Upper
 95 100
 174 67.2 53.8 80.6
 175 5.0 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 10.061 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

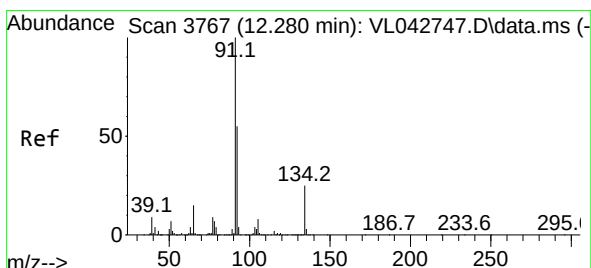
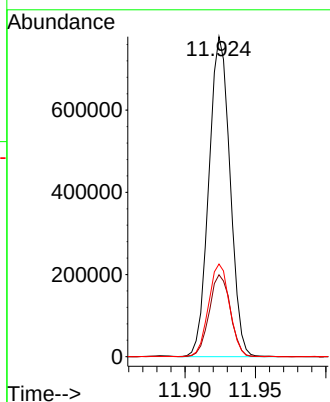
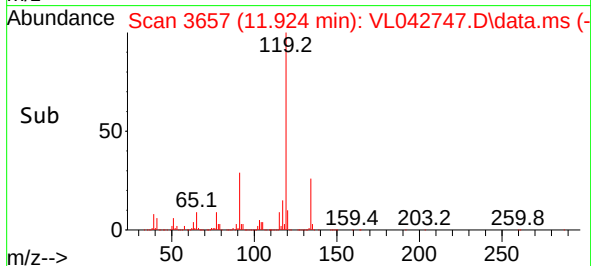
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



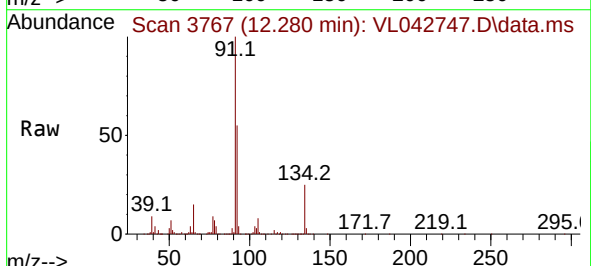
Tgt Ion:119 Resp: 814010
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.6 31.0
 91 29.0 23.2 34.8

Manual Integrations
 APPROVED

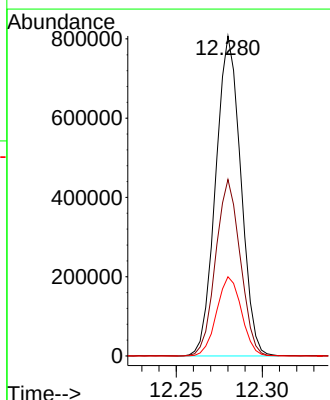
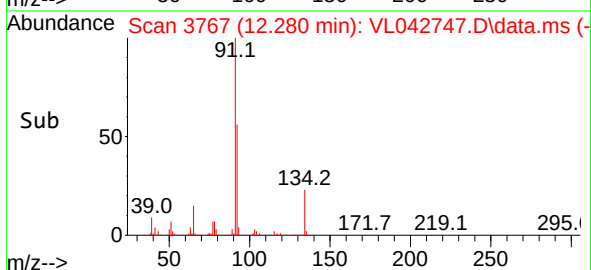
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

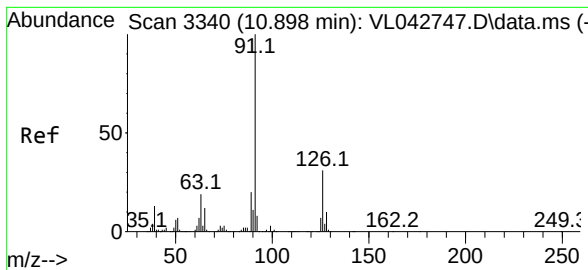


#70
 n-Butylbenzene
 Concen: 10.473 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58



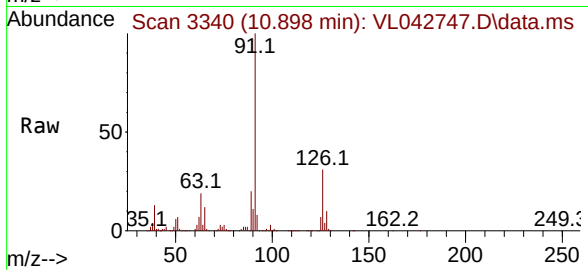
Tgt Ion: 91 Resp: 818457
 Ion Ratio Lower Upper
 91 100
 92 54.3 43.4 65.2
 134 24.5 19.6 29.4





#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

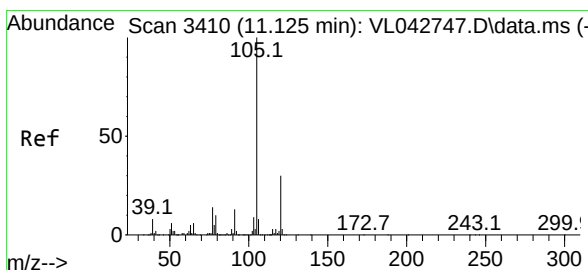
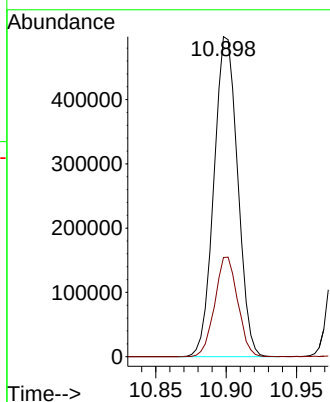
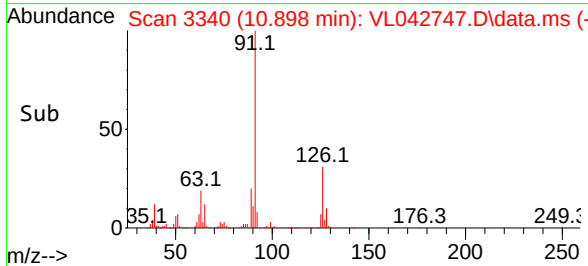
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



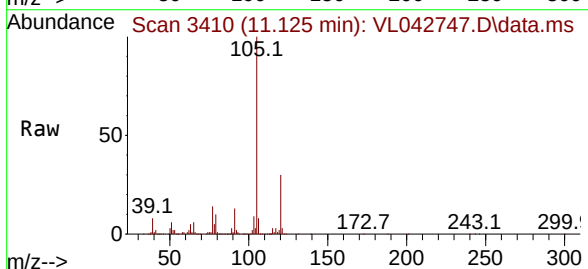
Tgt Ion: 91 Resp: 584629
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2

Manual Integrations
APPROVED

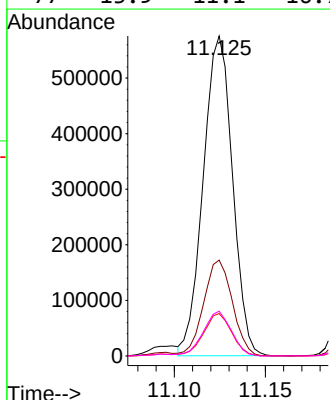
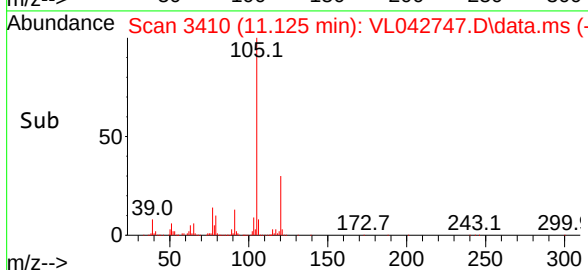
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

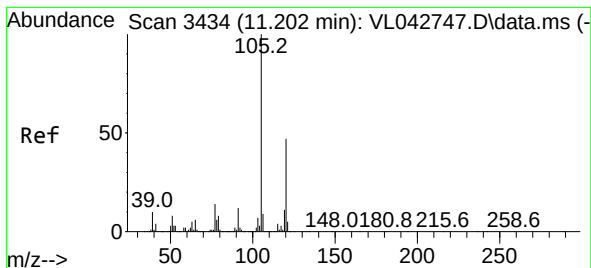


#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:105 Resp: 643519
Ion Ratio Lower Upper
105 100
120 30.5 24.4 36.6
91 13.2 10.6 15.8
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.285 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 53845

Ion Ratio Lower Upper

105 100

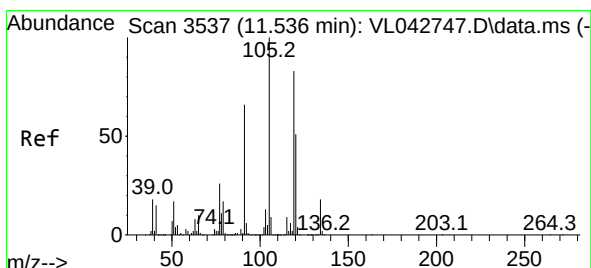
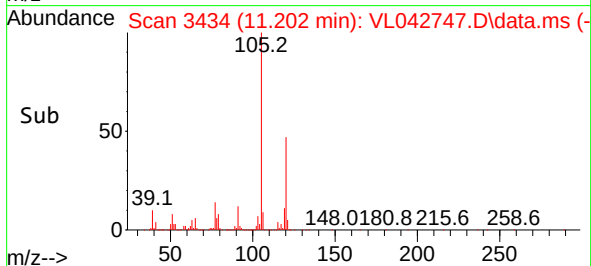
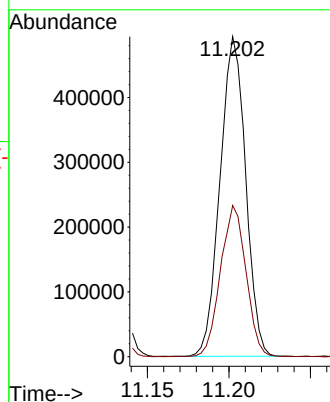
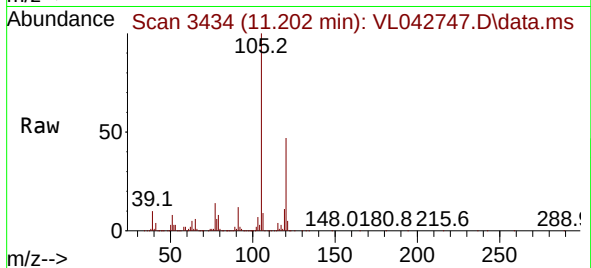
120 47.3 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.232 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 584447

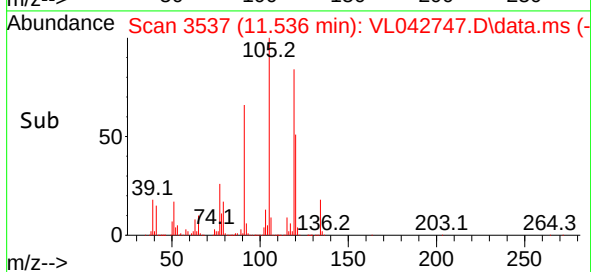
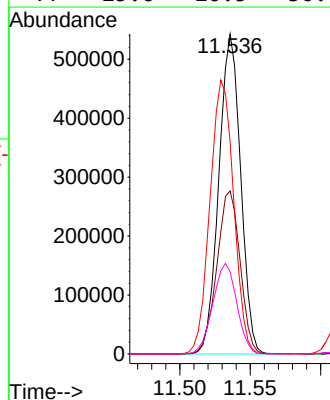
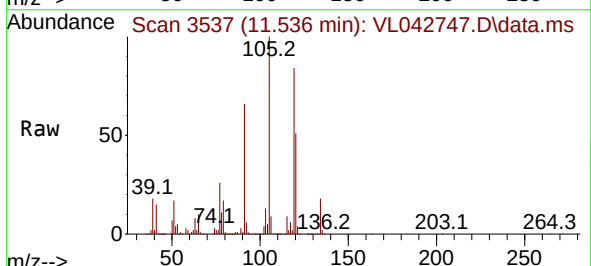
Ion Ratio Lower Upper

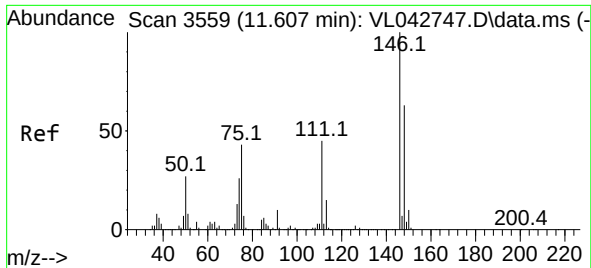
105 100

120 51.0 40.8 61.2

91 66.2 53.0 79.4

77 25.6 20.5 30.7





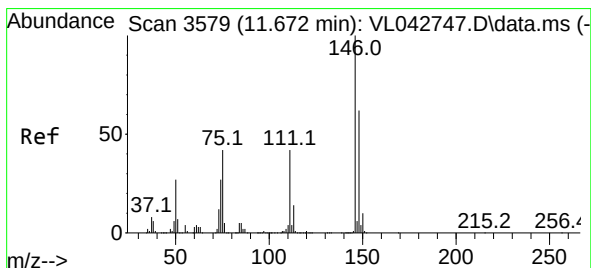
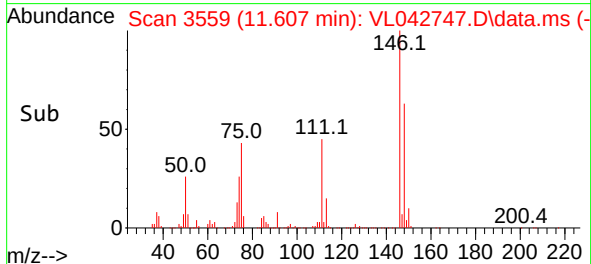
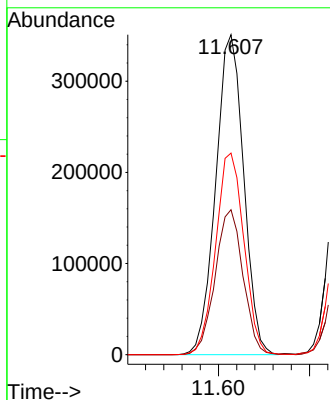
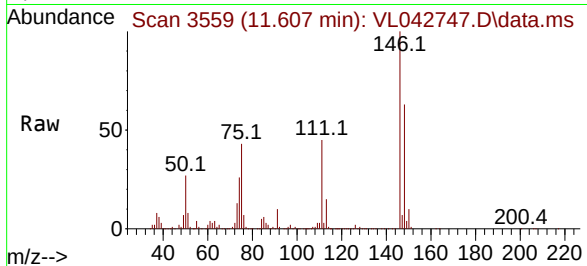
#75
1,3-Dichlorobenzene
Concen: 9.355 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 37458
Ion Ratio Lower Upper
146 100
111 45.3 22.7 68.0
148 63.7 31.9 95.5

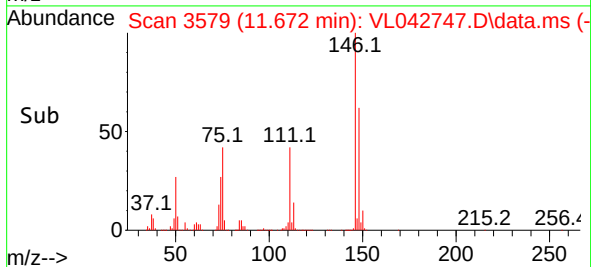
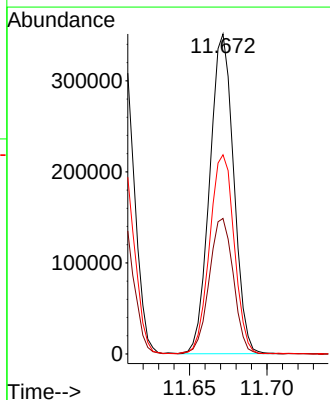
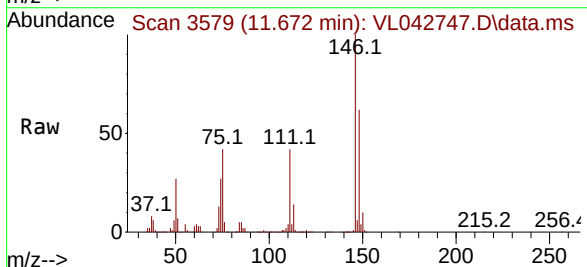
Manual Integrations
APPROVED

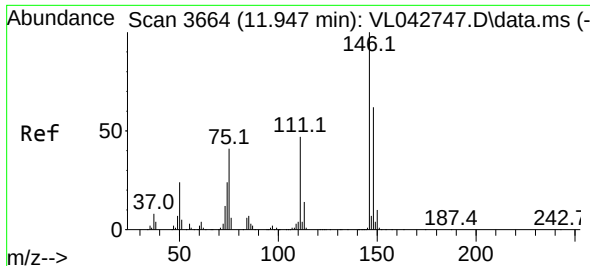
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#76
1,4-Dichlorobenzene
Concen: 9.649 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

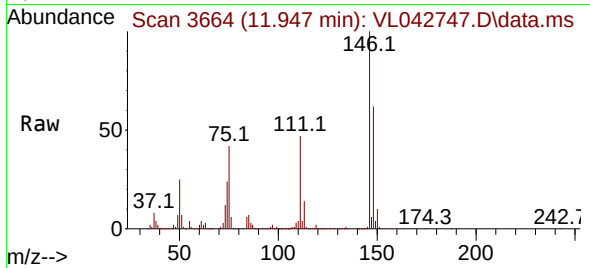
Tgt Ion:146 Resp: 378093
Ion Ratio Lower Upper
146 100
111 42.8 21.4 64.2
148 64.2 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 9.102 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

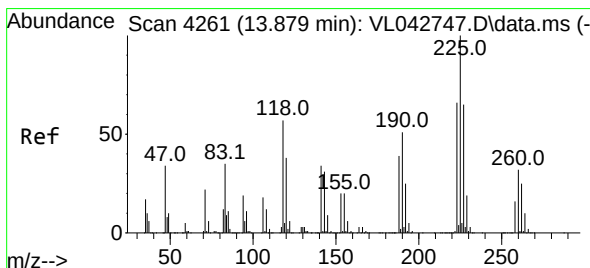
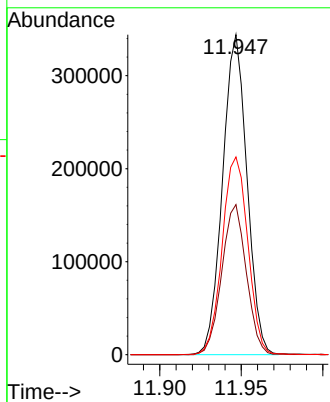
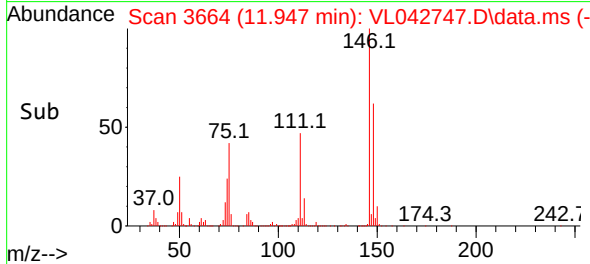
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



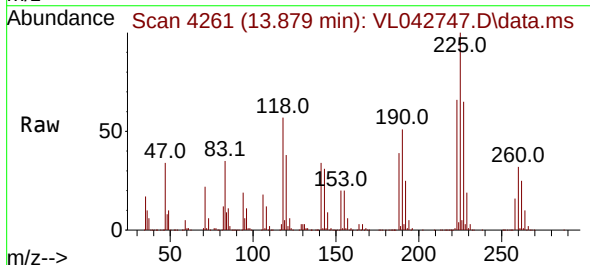
Tgt Ion:146 Resp: 358200
Ion Ratio Lower Upper
146 100
111 47.4 23.7 71.1
148 65.1 32.6 97.7

Manual Integrations
APPROVED

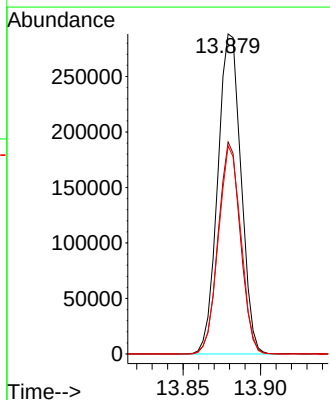
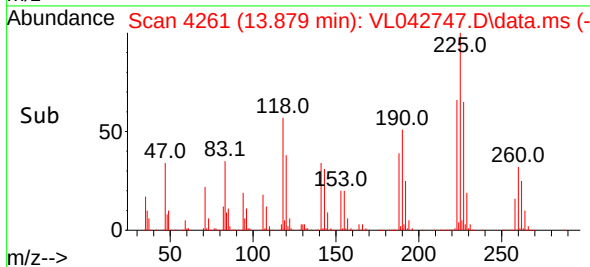
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

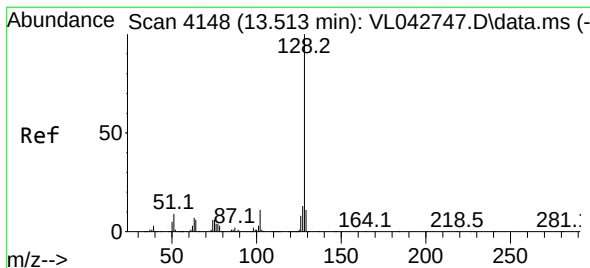


#78
Hexachloro-1,3-Butadiene
Concen: 8.444 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:225 Resp: 300801
Ion Ratio Lower Upper
225 100
223 63.4 50.7 76.1
227 63.1 50.5 75.7





#79

Naphthalene

Concen: 9.665 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:128 Resp: 598108

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

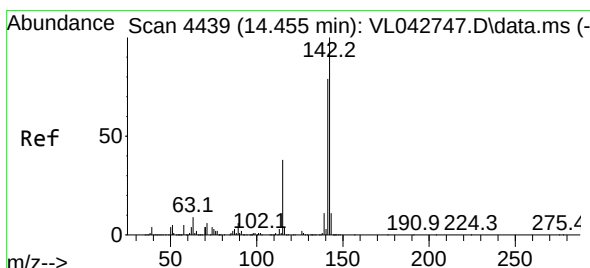
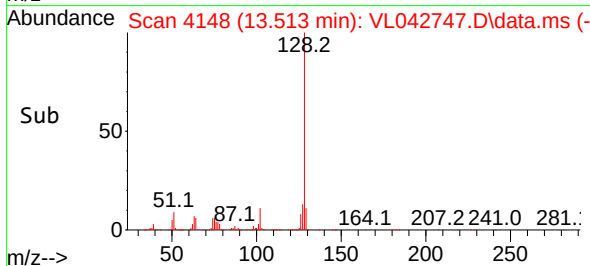
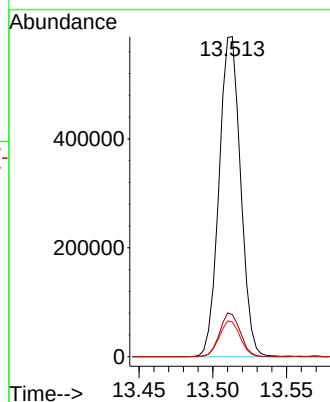
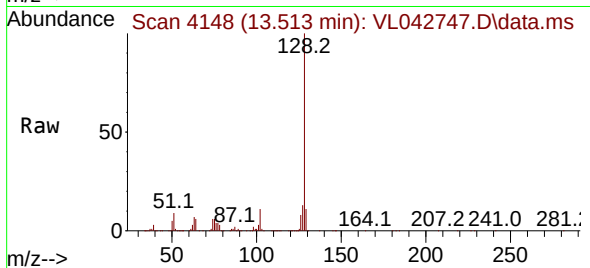
129 10.8 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#80

Naphthalene,2-methyl-

Concen: 9.404 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

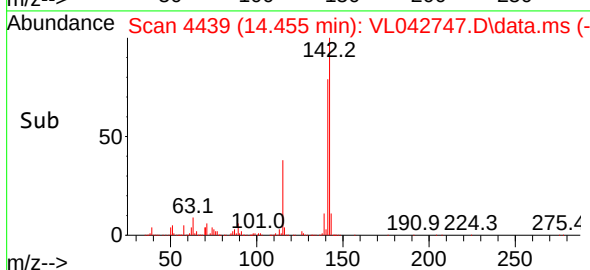
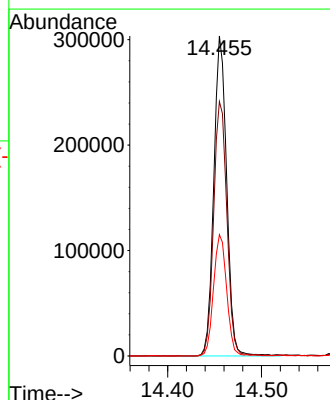
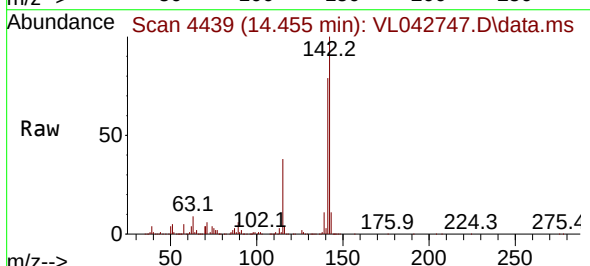
Tgt Ion:142 Resp: 289412

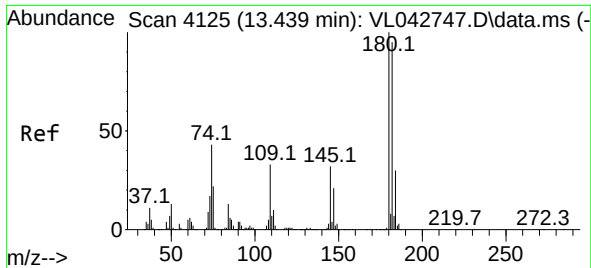
Ion Ratio Lower Upper

142 100

141 82.1 65.8 98.8

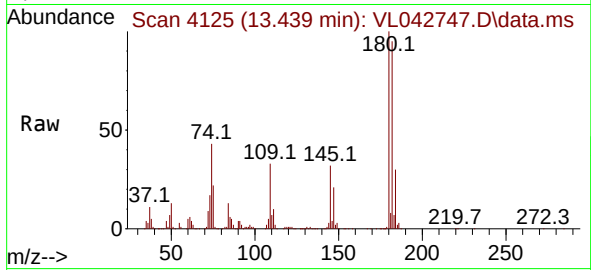
115 38.9 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.710 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

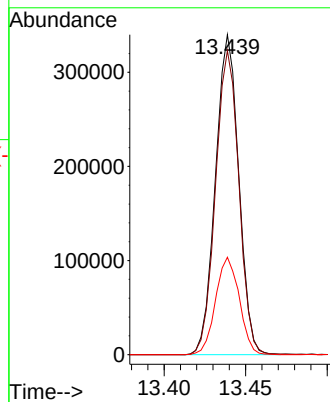
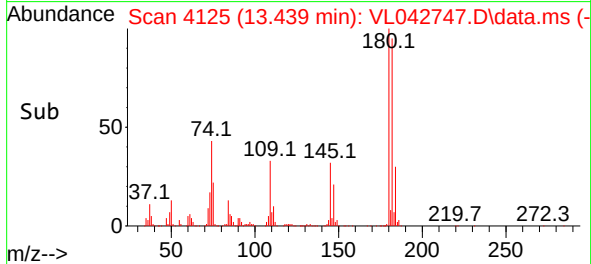
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 337770
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.2 114.2
 184 31.0 24.8 37.2

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 : 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

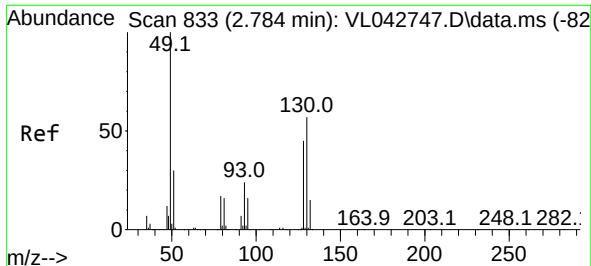
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

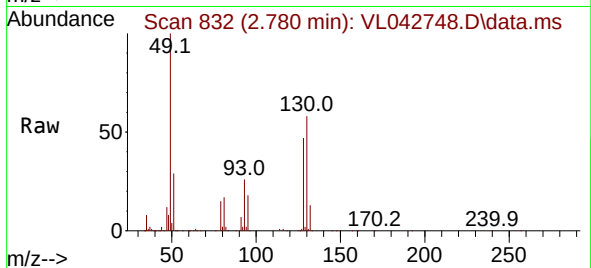
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	43845m	2.000	ppbv	
47) 1,1,2-Trichloroethane	6.567	97	35222m	2.063	ppbv	
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv	96
49) Bromoform	9.477	173	47340	2.003	ppbv	96
50) 4-Methyl-2-Pentanone	5.748	43	87566m	2.120	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

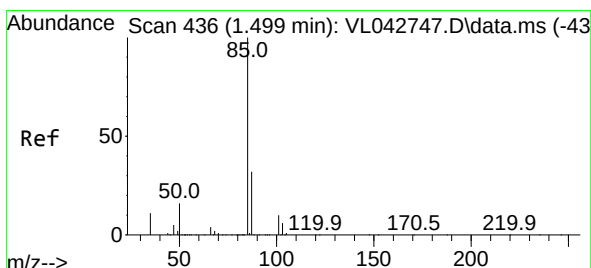
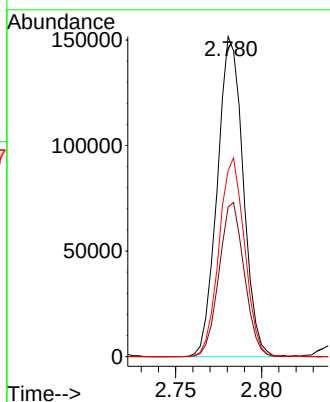
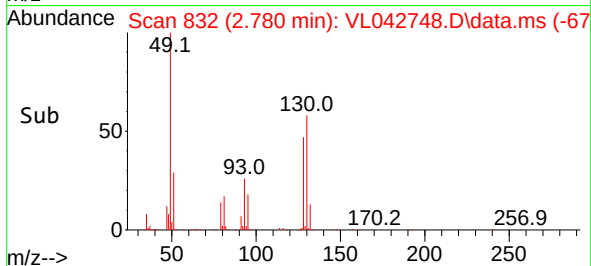
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



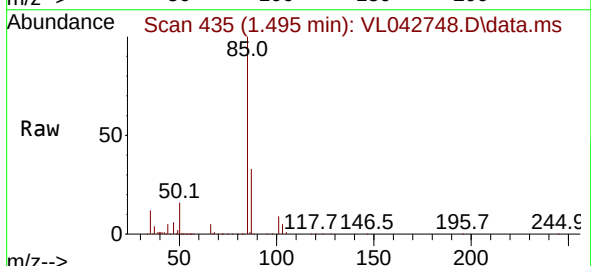
Tgt Ion: 49 Resp: 158579
Ion Ratio Lower Upper
49 100
128 47.0 23.6 71.0
130 61.6 30.3 90.8

Manual Integrations
APPROVED

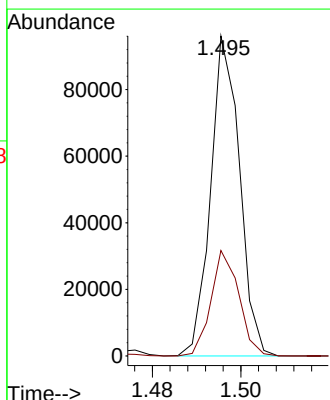
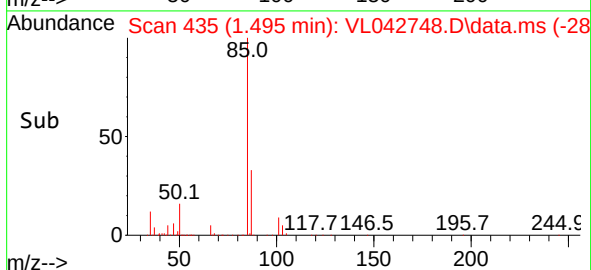
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

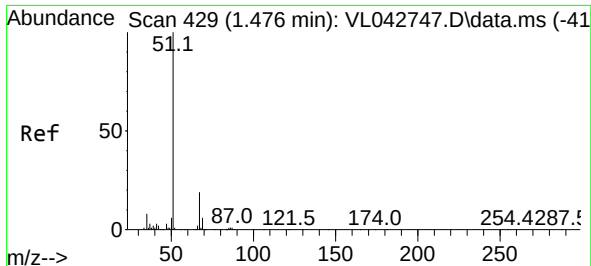


#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 85 Resp: 43675
Ion Ratio Lower Upper
85 100
87 33.0 25.4 38.2





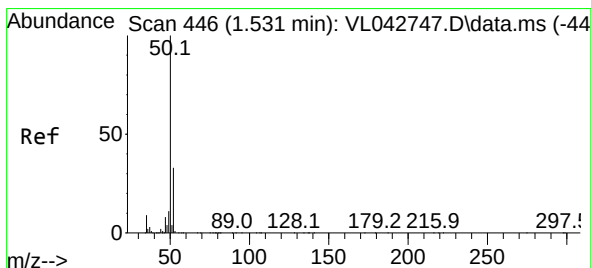
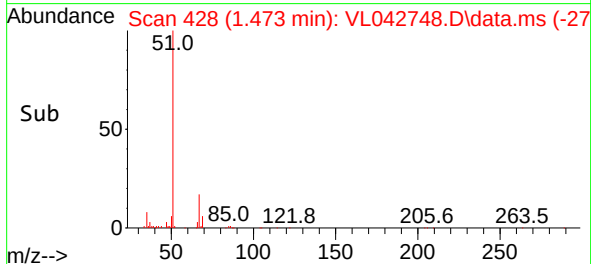
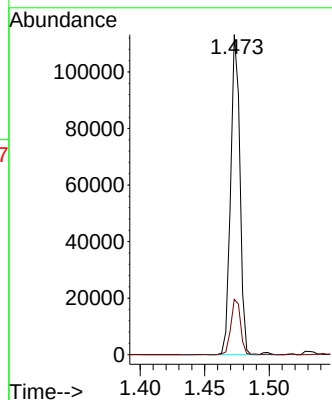
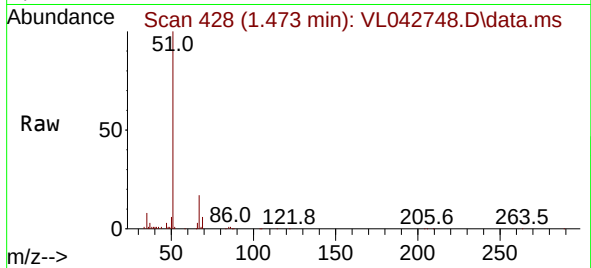
#3
Chlorodifluoromethane
Concen: 2.058 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 56214
Ion Ratio Lower Upper
51 100
67 18.3 15.0 22.6

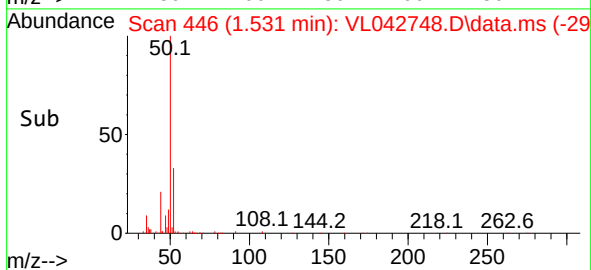
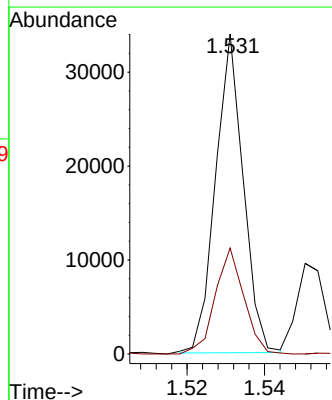
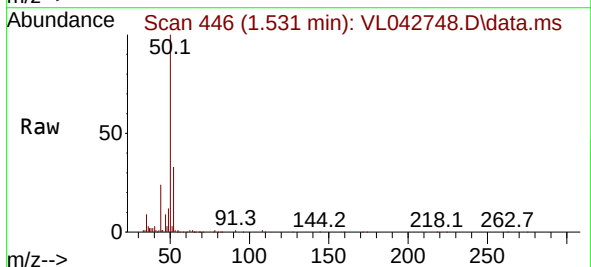
Manual Integrations
APPROVED

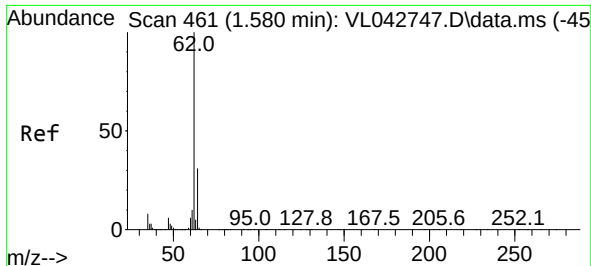
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 1.985 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 50 Resp: 16834
Ion Ratio Lower Upper
50 100
52 33.1 26.6 40.0





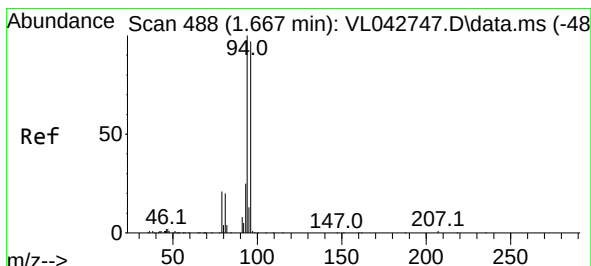
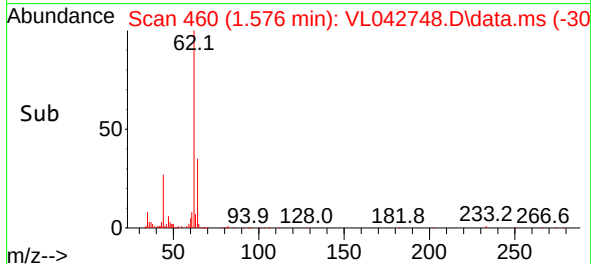
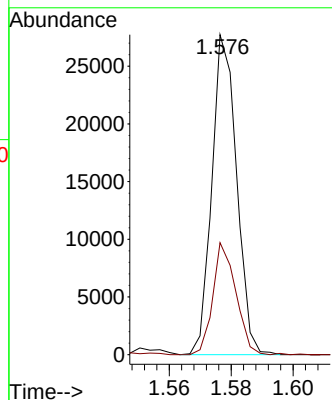
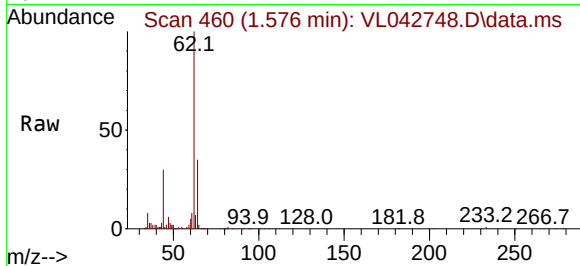
#5
 Vinyl Chloride
 Concen: 1.836 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion: 62 Resp: 15384
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.5 36.7

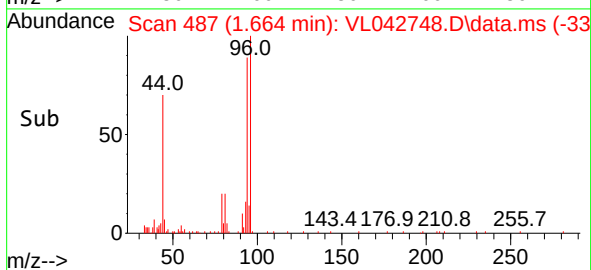
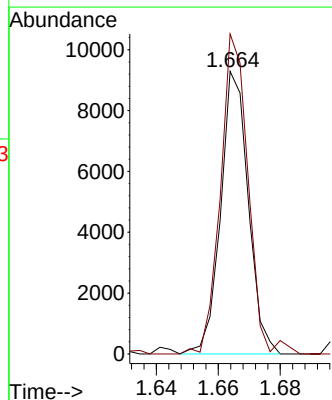
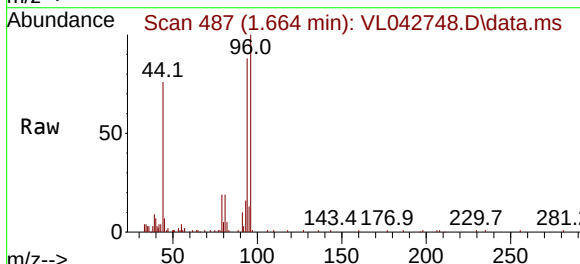
Manual Integrations
 APPROVED

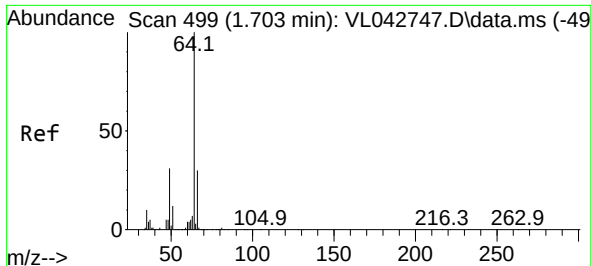
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 1.776 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

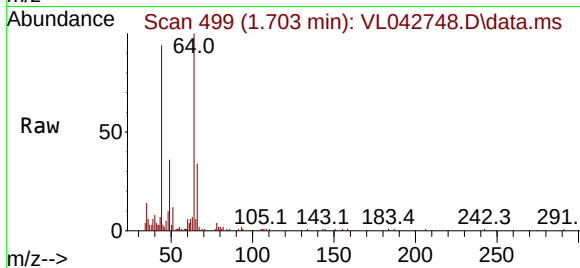
Tgt Ion: 94 Resp: 5754
 Ion Ratio Lower Upper
 94 100
 96 113.3 77.6 116.4





#7
Chloroethane
Concen: 1.853 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

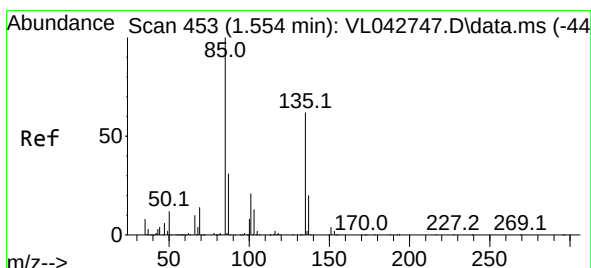
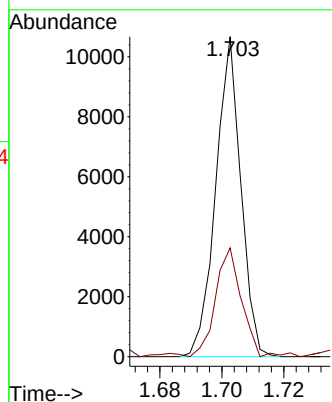
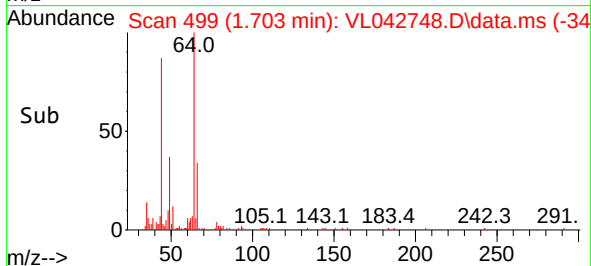
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



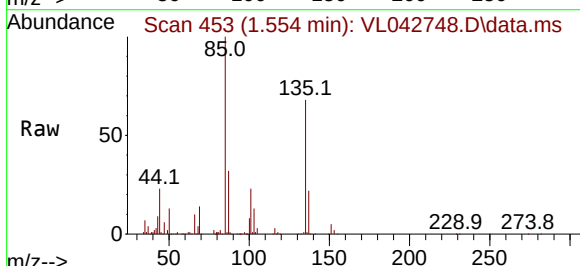
Tgt Ion: 64 Resp: 600
Ion Ratio Lower Upper
64 100
66 34.0 24.1 36.1

Manual Integrations
APPROVED

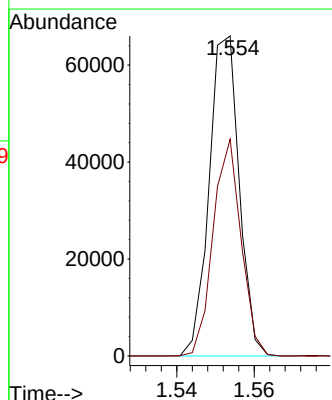
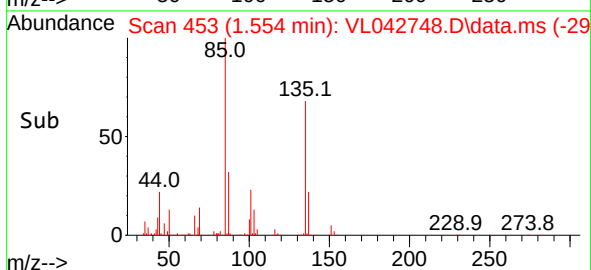
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

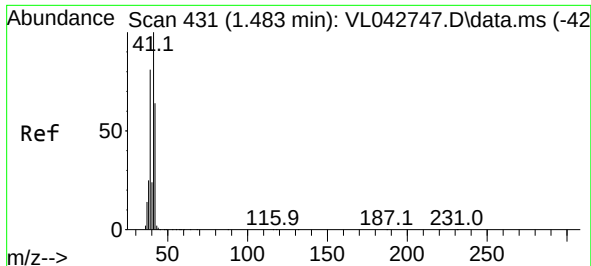


#8
Dichlorotetrafluoroethane
Concen: 2.066 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



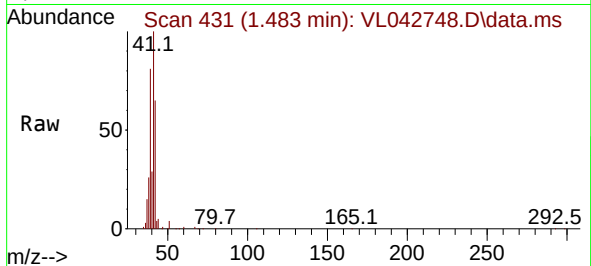
Tgt Ion: 85 Resp: 35629
Ion Ratio Lower Upper
85 100
135 63.0 50.6 76.0





#9
Propene
Concen: 2.175 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

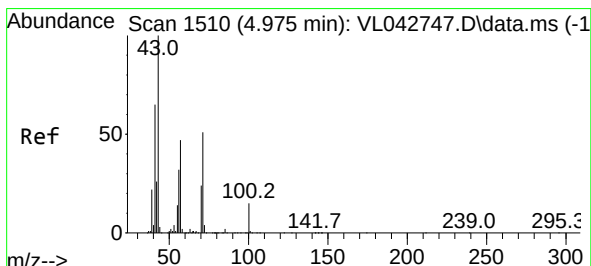
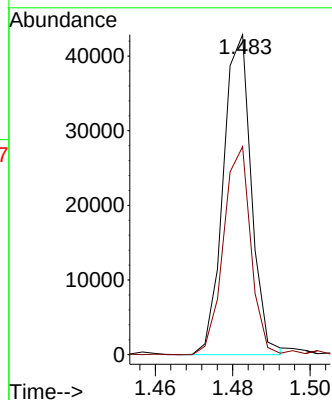
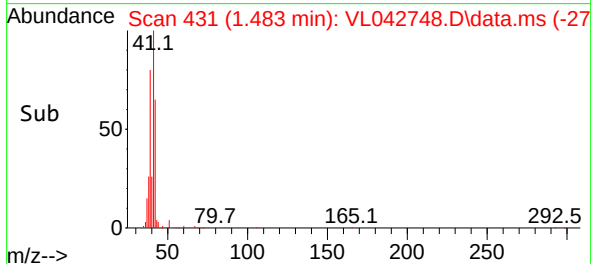
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



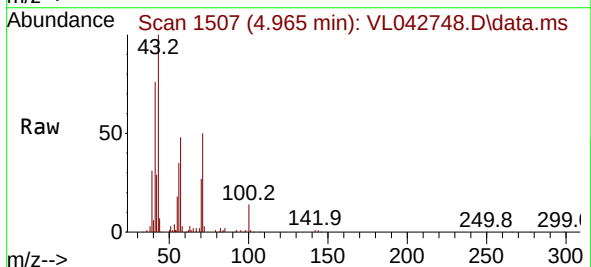
Tgt Ion: 41 Resp: 21592
Ion Ratio Lower Upper
41 100
42 64.5 53.2 79.8

Manual Integrations
APPROVED

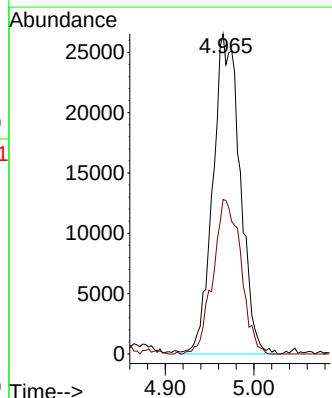
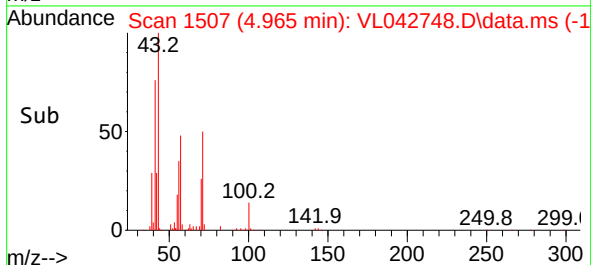
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

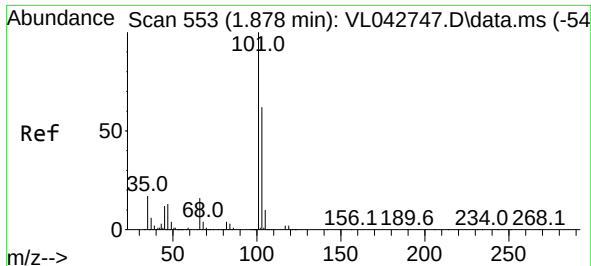


#10
Heptane
Concen: 2.114 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



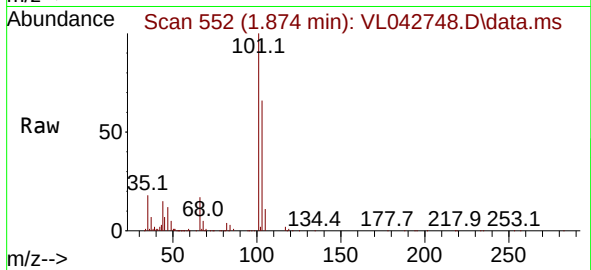
Tgt Ion: 43 Resp: 56442
Ion Ratio Lower Upper
43 100
57 49.3 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 2.072 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

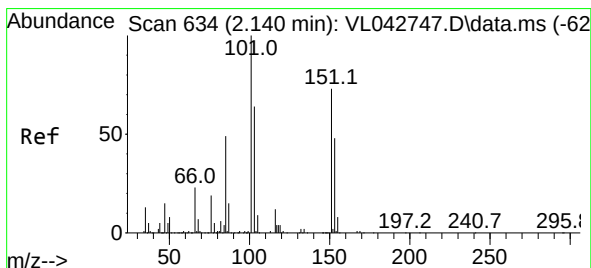
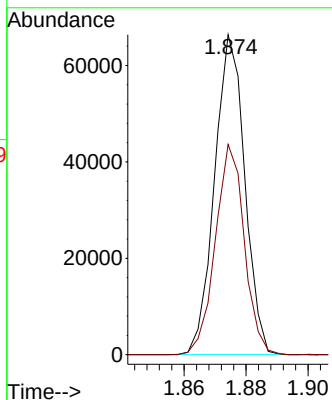
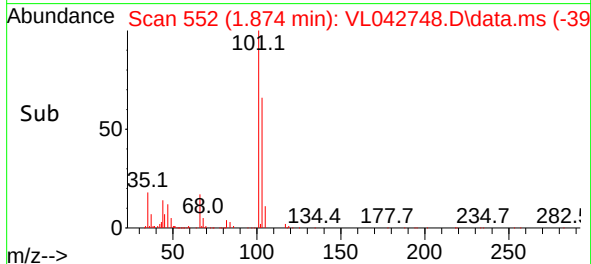
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



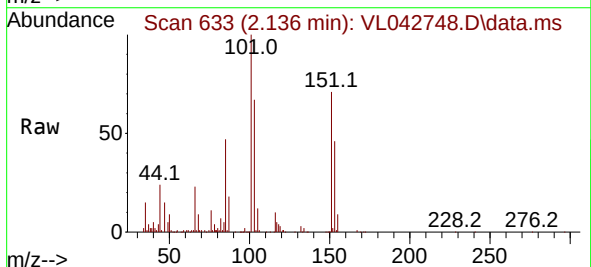
Tgt Ion:101 Resp: 44770
 Ion Ratio Lower Upper
 101 100
 103 65.8 49.6 74.4

Manual Integrations
 APPROVED

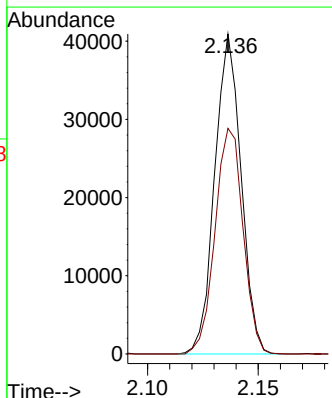
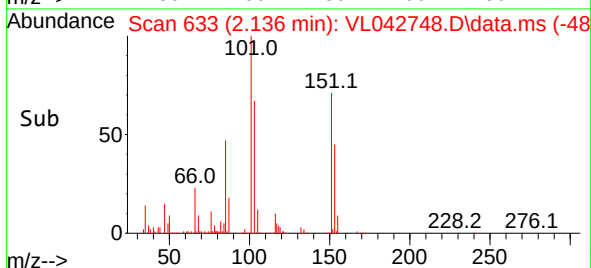
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

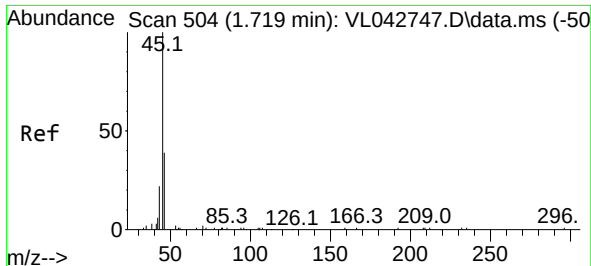


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.065 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34



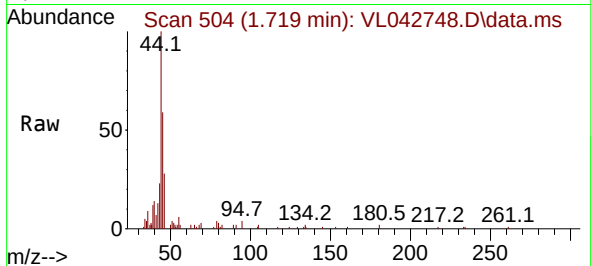
Tgt Ion:101 Resp: 33910
 Ion Ratio Lower Upper
 101 100
 151 74.9 60.5 90.7





#13
Ethanol
Concen: 2.155 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

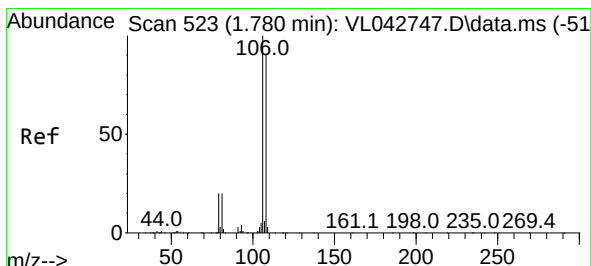
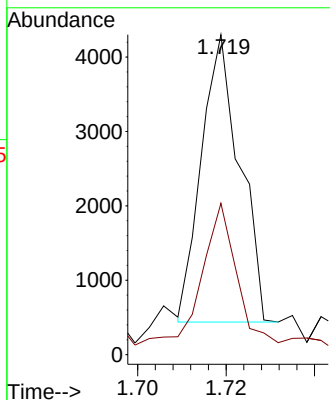
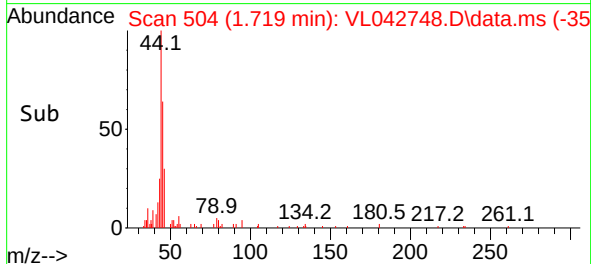
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



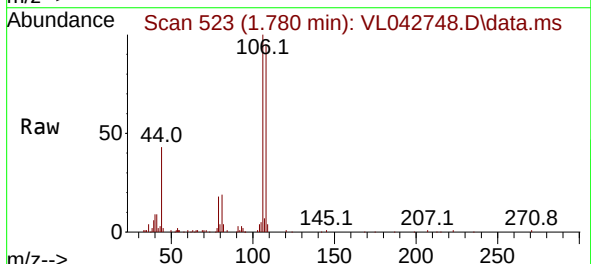
Tgt Ion: 45 Resp: 232
Ion Ratio Lower Upper
45 100
46 58.7 17.8 71.4

Manual Integrations
APPROVED

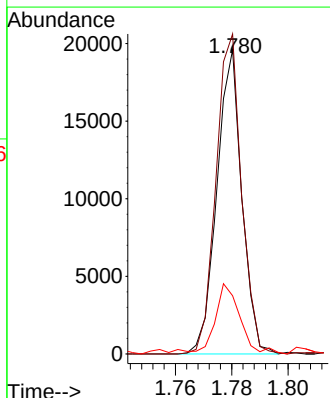
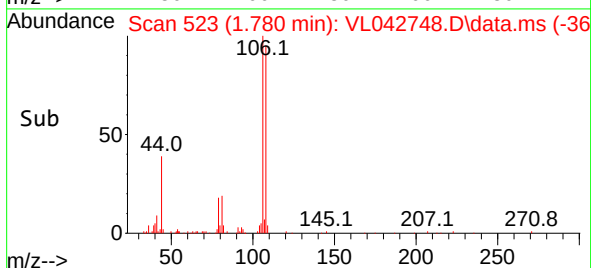
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

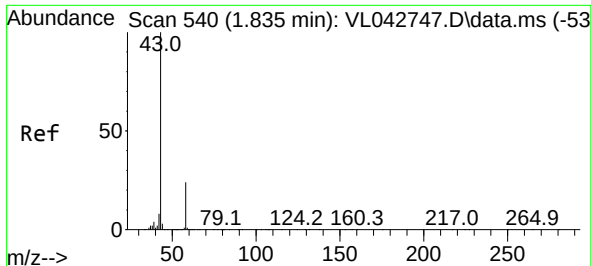


#14
Bromoethene
Concen: 2.077 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



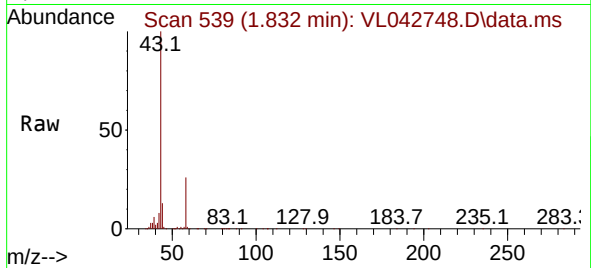
Tgt Ion:108 Resp: 12078
Ion Ratio Lower Upper
108 100
106 107.6 84.7 127.1
79 29.2 17.4 26.2#





#15
Acetone
Concen: 2.202 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

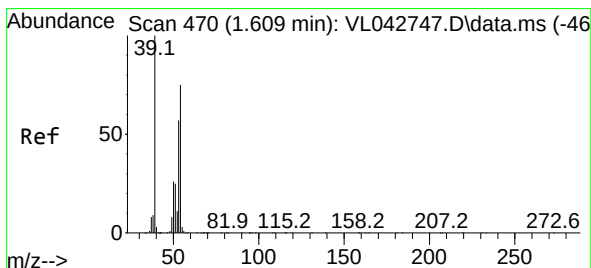
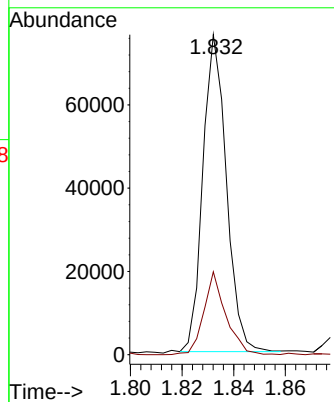
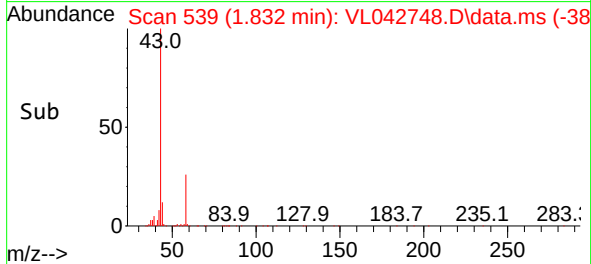
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



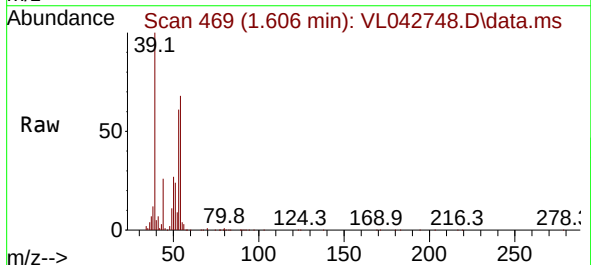
Tgt Ion: 43 Resp: 48220
Ion Ratio Lower Upper
43 100
58 25.0 19.8 29.8

Manual Integrations
APPROVED

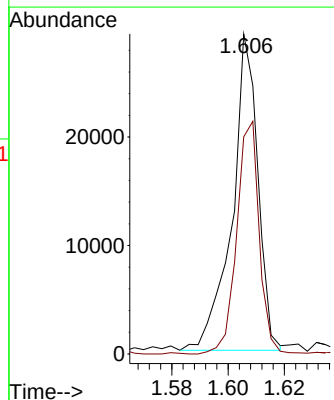
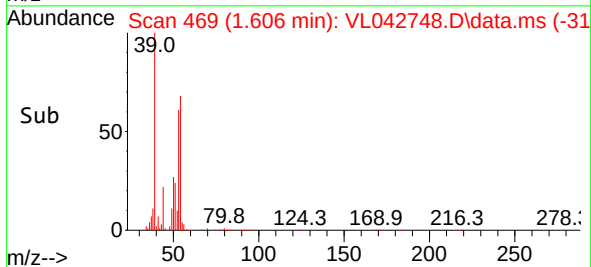
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

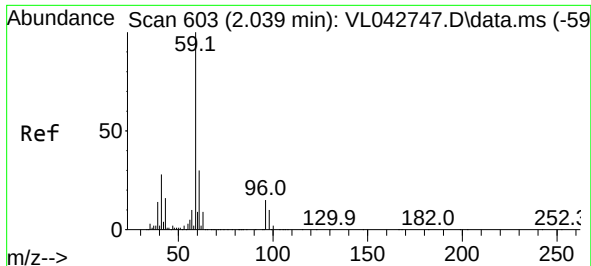


#16
1,3-Butadiene
Concen: 1.981 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 39 Resp: 18504
Ion Ratio Lower Upper
39 100
54 65.0 54.5 81.7





#17

tert-Butyl alcohol

Concen: 2.032 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 59 Resp: 4013

Ion Ratio Lower Upper

59 100

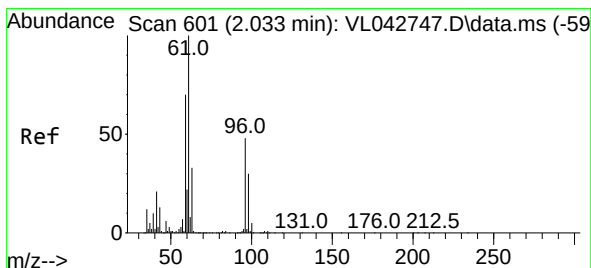
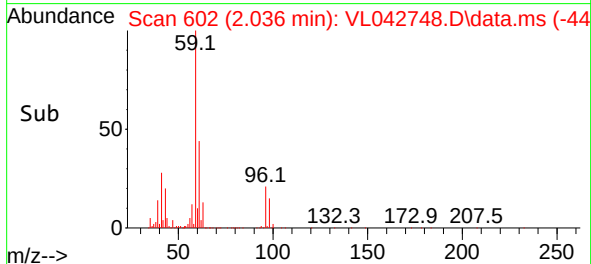
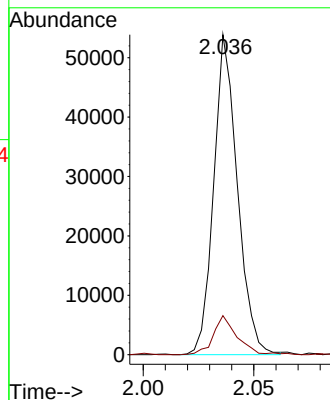
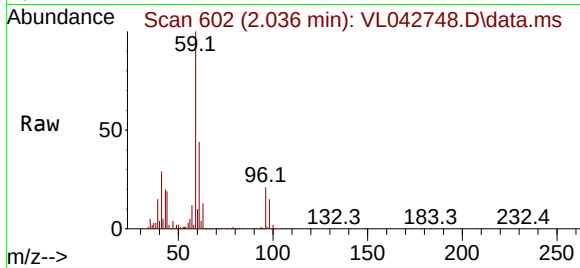
57 12.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 1.938 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

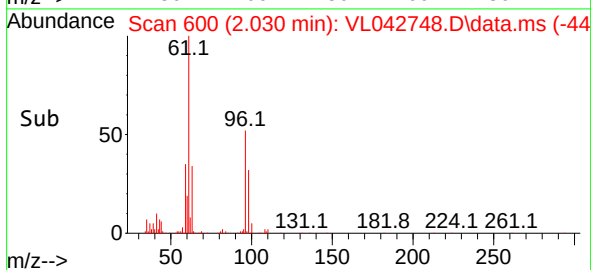
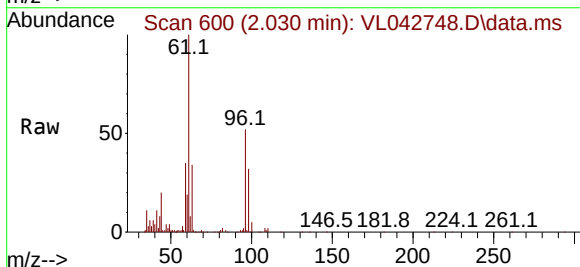
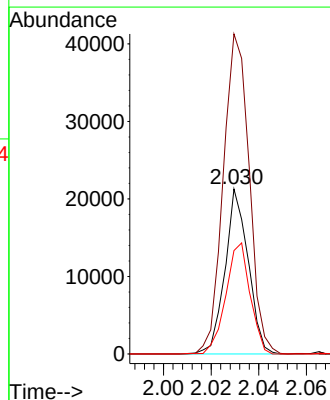
Tgt Ion: 96 Resp: 14381

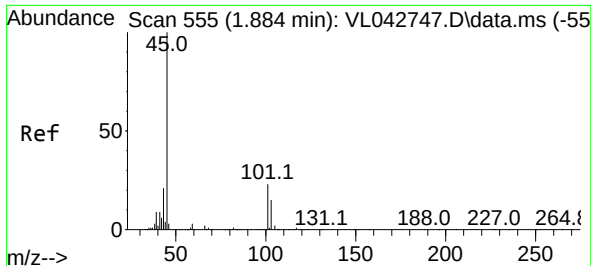
Ion Ratio Lower Upper

96 100

61 193.9 165.8 248.6

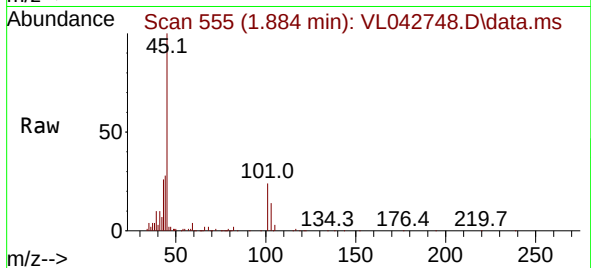
98 62.7 49.9 74.9





#19
Isopropyl Alcohol
Concen: 1.979 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

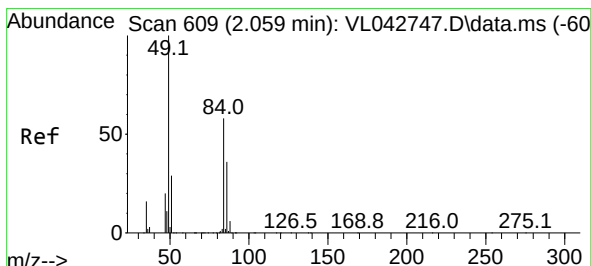
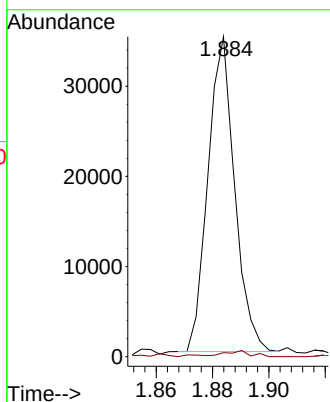
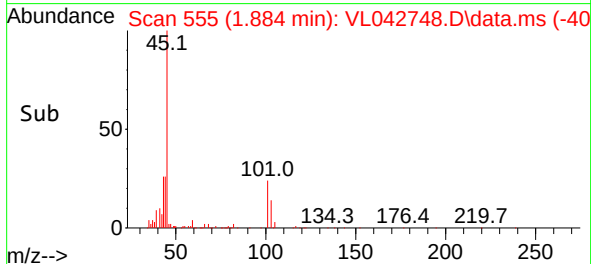
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



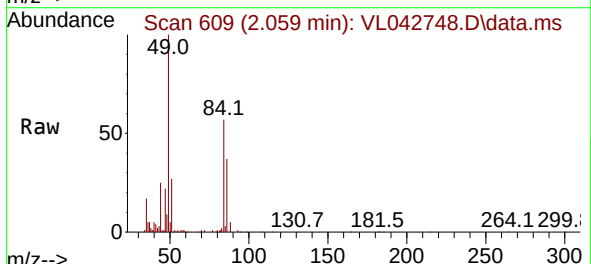
Tgt Ion: 45 Resp: 23028
Ion Ratio Lower Upper
45 100
58 52.5 30.0 45.0

Manual Integrations
APPROVED

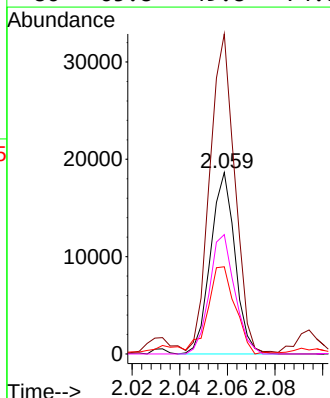
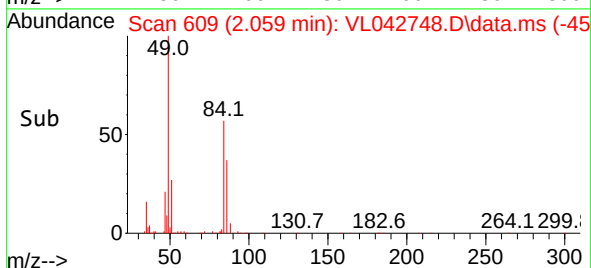
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

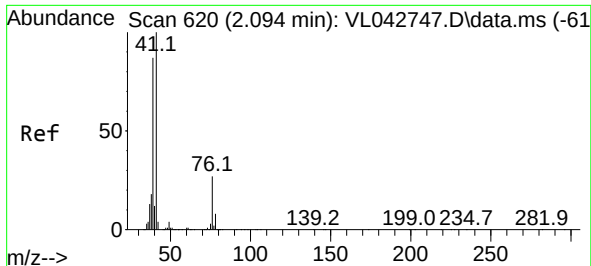


#20
Methylene Chloride
Concen: 1.927 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 84 Resp: 13296
Ion Ratio Lower Upper
84 100
49 175.4 138.6 208.0
51 47.4 40.6 61.0
86 65.8 49.8 74.8





#21
 Allyl Chloride
 Concen: 2.059 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

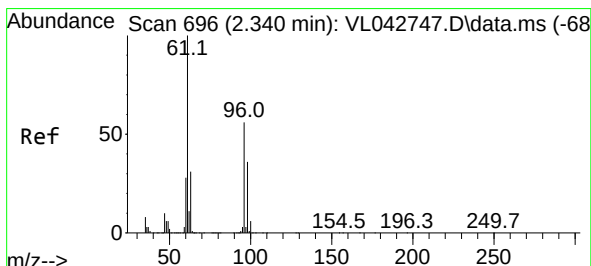
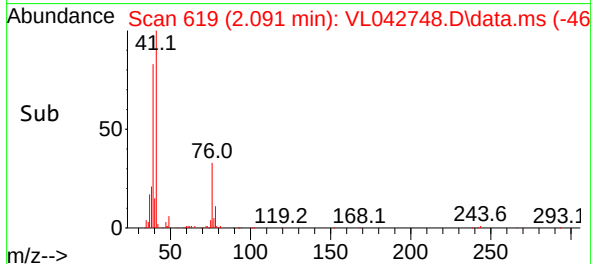
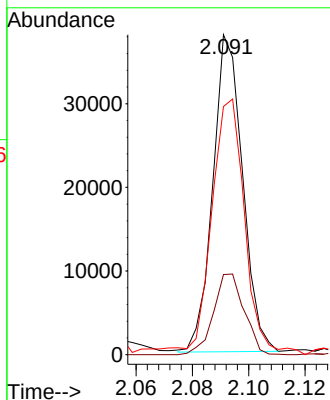
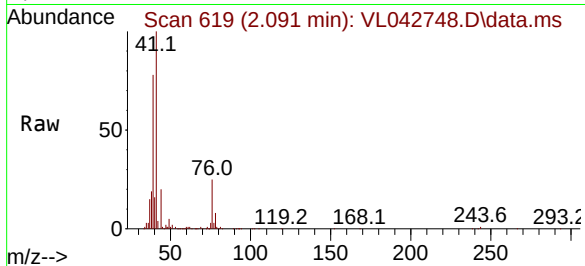
ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 27789
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 89.5 68.3 102.5

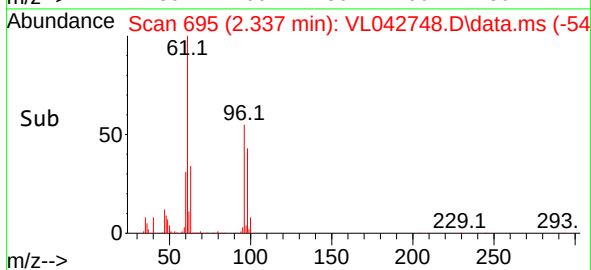
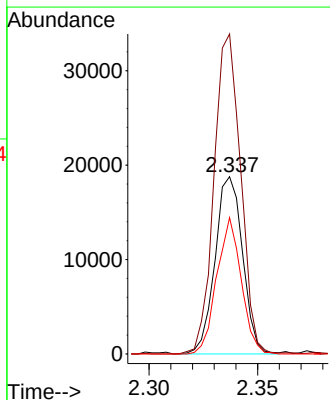
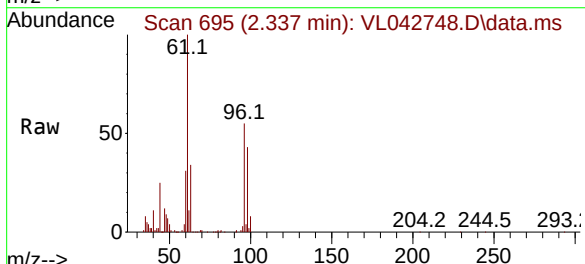
Manual Integrations
 APPROVED

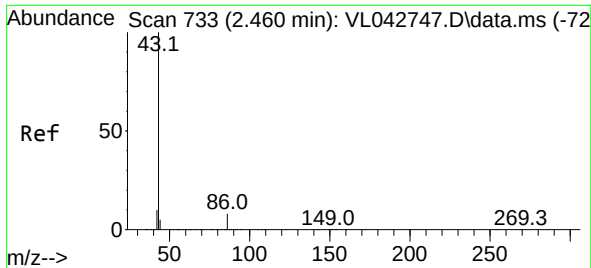
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.081 ppbv m
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 16591
 Ion Ratio Lower Upper
 96 100
 61 180.5 142.3 213.5
 98 76.8 50.6 76.0#





#23
 Vinyl Acetate
 Concen: 2.017 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

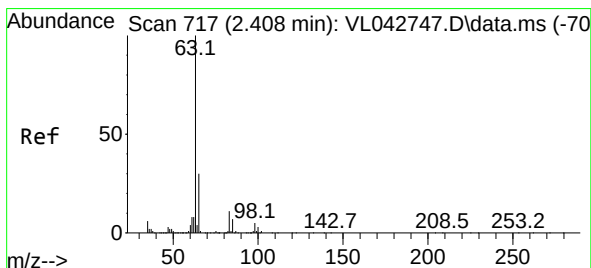
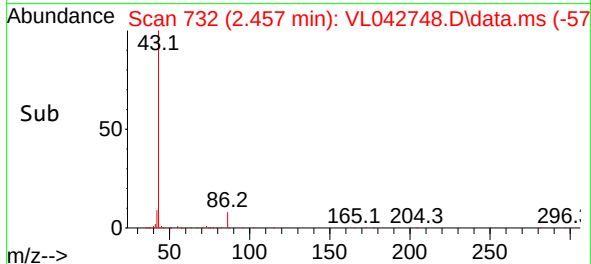
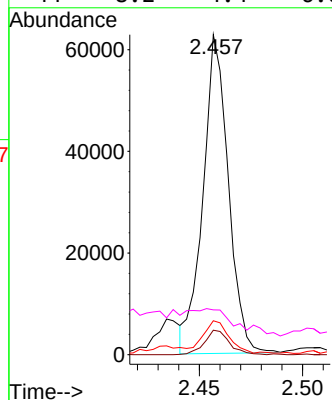
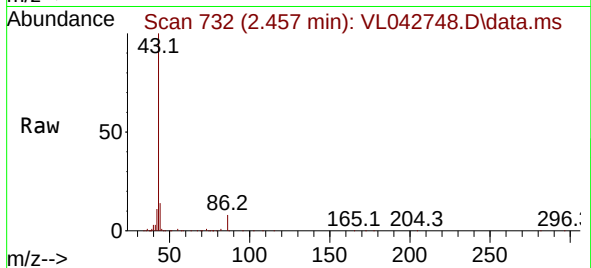
VSTDIC002

Tgt Ion: 43 Resp: 53544
 Ion Ratio Lower Upper
 43 100
 86 7.6 6.1 9.1
 42 10.1 7.8 11.8
 44 8.2 4.4 6.6#

Manual Integrations

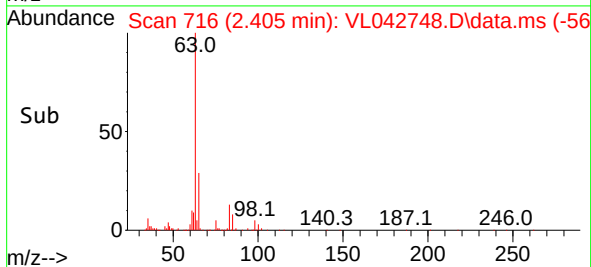
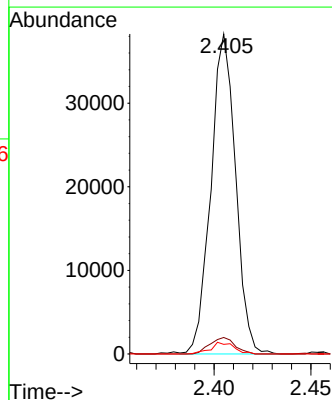
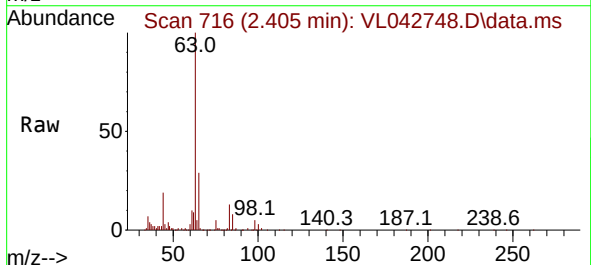
APPROVED

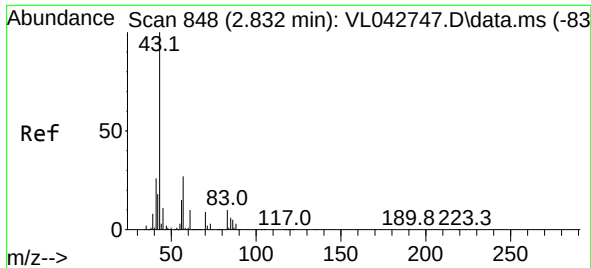
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#24
 1,1-Dichloroethane
 Concen: 2.073 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

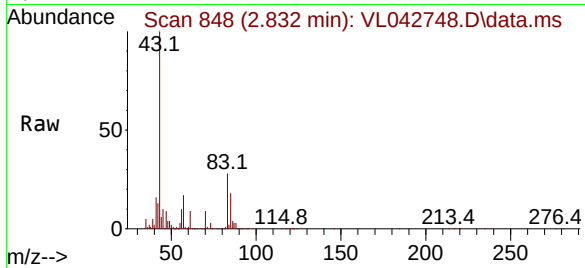
Tgt Ion: 63 Resp: 33969
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.5 7.4
 100 3.0 1.6 4.8





#25
Ethyl Acetate
Concen: 2.101 ppbv
RT: 2.832 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

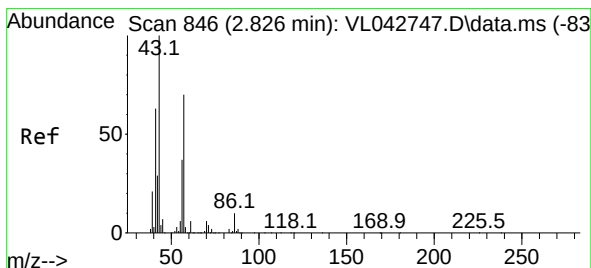
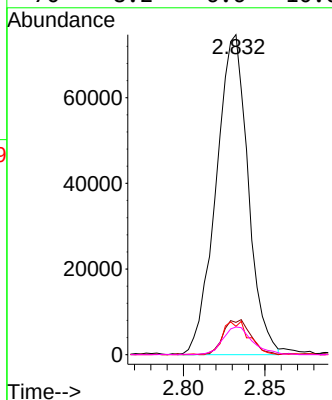
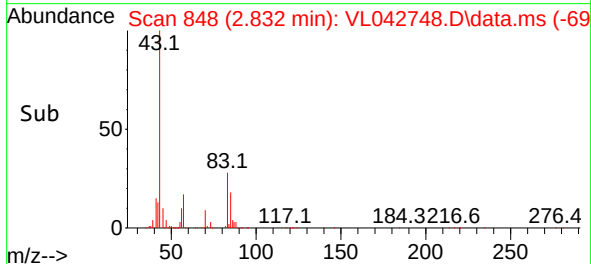
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



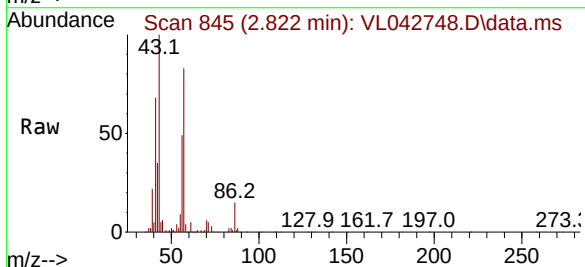
Tgt Ion: 43 Resp: 10185
Ion Ratio Lower Upper
43 100
45 9.9 7.8 11.6
61 8.9 6.7 10.1
70 8.2 6.6 10.0

Manual Integrations
APPROVED

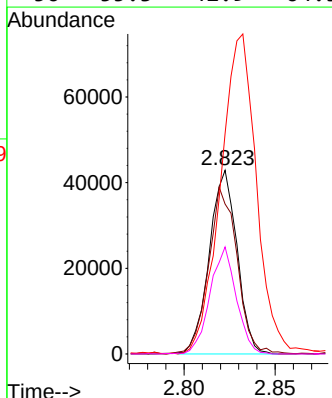
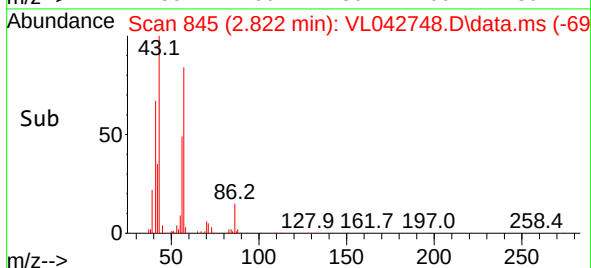
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

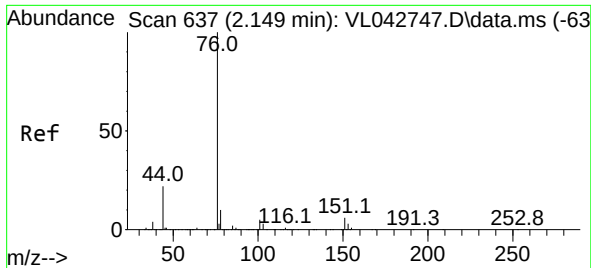


#26
Hexane
Concen: 2.137 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



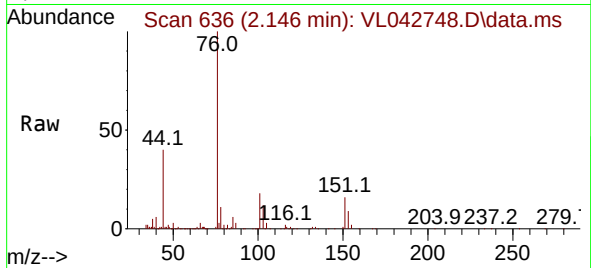
Tgt Ion: 57 Resp: 45446
Ion Ratio Lower Upper
57 100
41 94.1 75.4 113.2
43 230.2 185.0 277.6
56 55.3 42.9 64.3





#27
Carbon Disulfide
Concen: 2.030 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

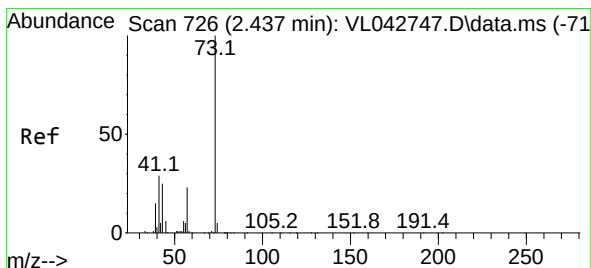
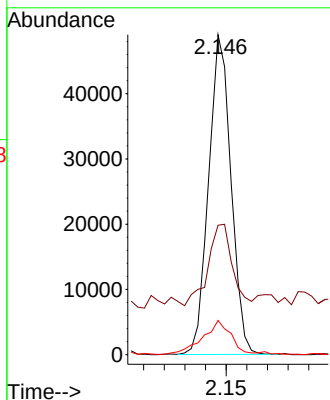
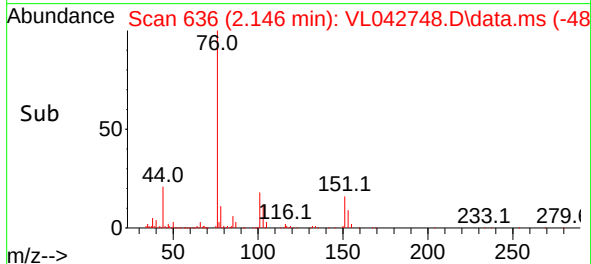
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 76 Resp: 36945
Ion Ratio Lower Upper
76 100
44 71.1 19.3 28.9
78 13.6 9.9 14.9

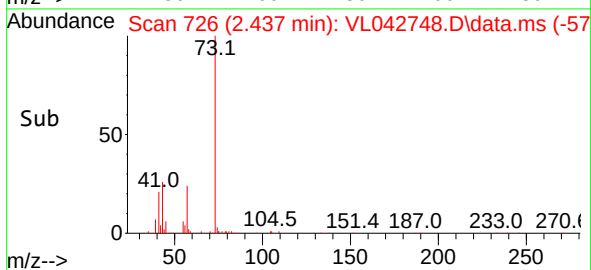
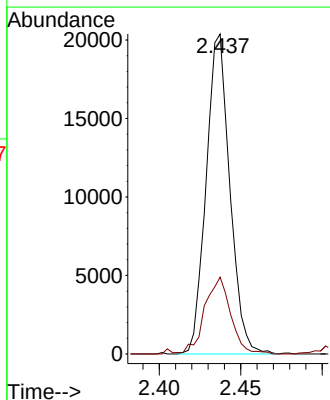
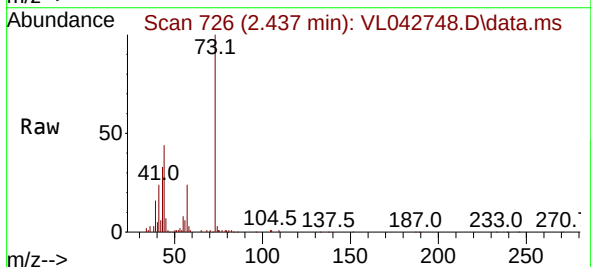
Manual Integrations
APPROVED

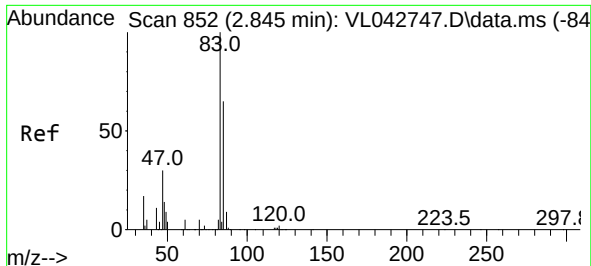
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 2.051 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 73 Resp: 20603
Ion Ratio Lower Upper
73 100
57 26.7 19.8 29.8





#29

Chloroform

Concen: 2.062 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 6775

Ion Ratio Lower Upper

83 100

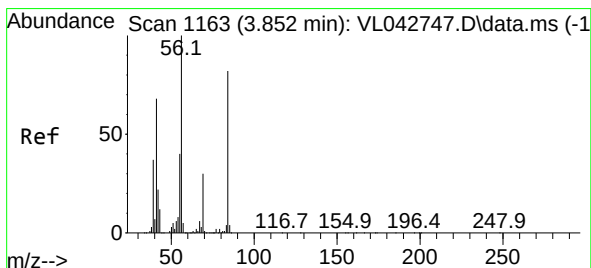
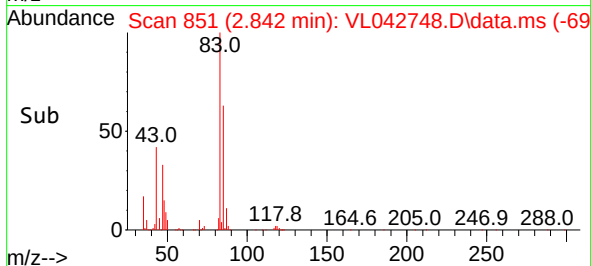
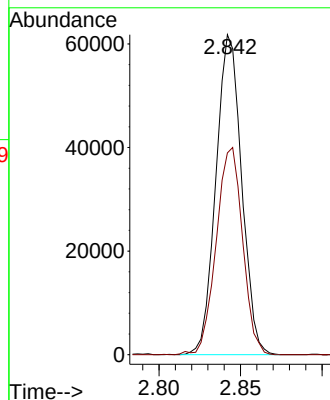
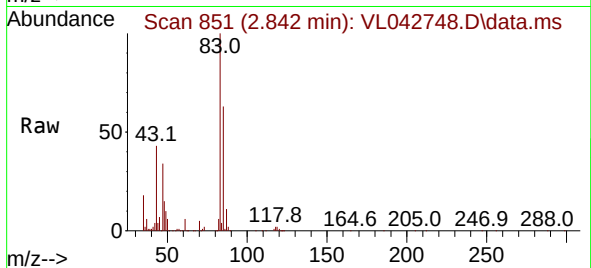
85 63.0 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 2.113 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

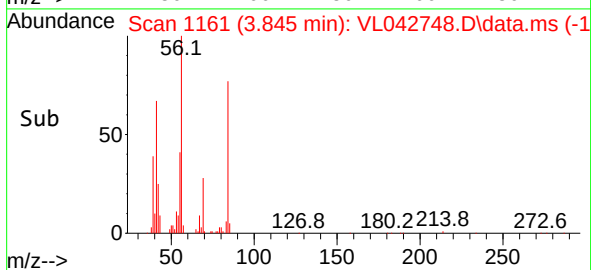
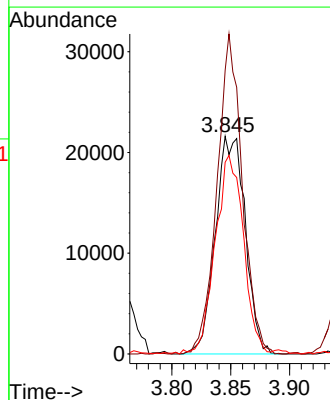
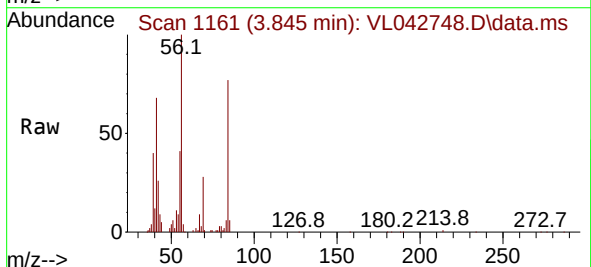
Tgt Ion: 84 Resp: 38095

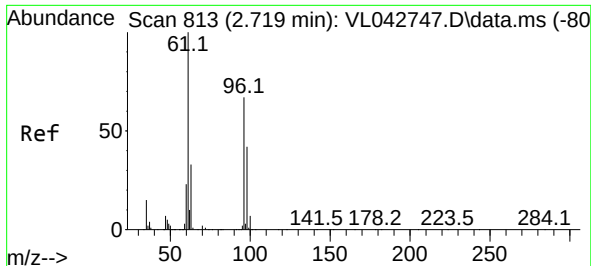
Ion Ratio Lower Upper

84 100

56 124.9 97.5 146.3

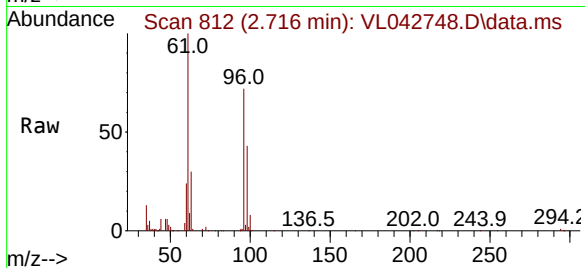
41 87.4 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 2.053 ppbv
 RT: 2.716 min Scan# 813
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

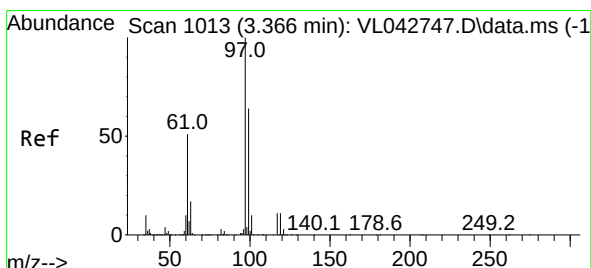
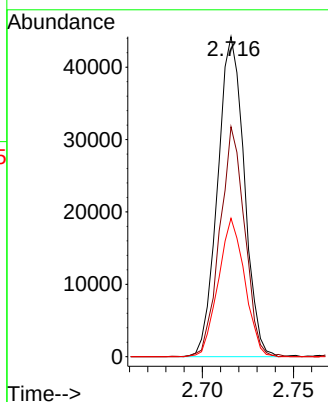
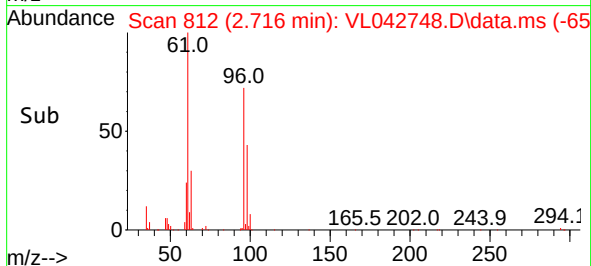
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



Tgt Ion: 61 Resp: 44860
 Ion Ratio Lower Upper
 61 100
 96 71.8 53.5 80.3
 98 43.3 33.6 50.4

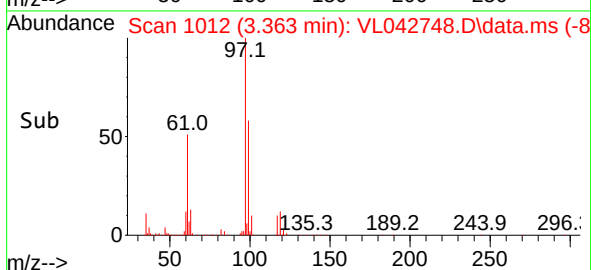
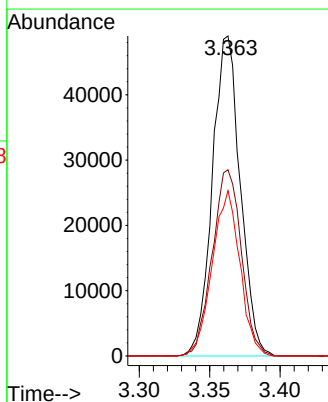
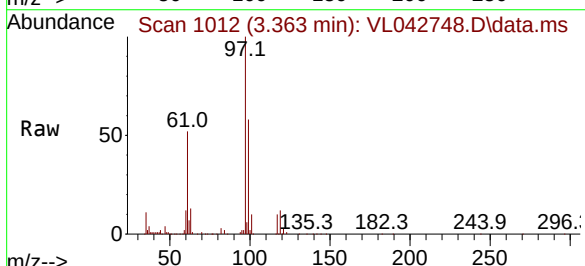
Manual Integrations
 APPROVED

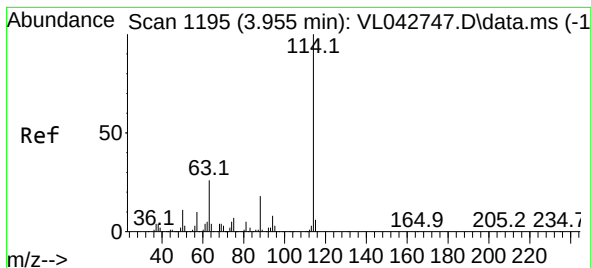
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.976 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 97 Resp: 67608
 Ion Ratio Lower Upper
 97 100
 99 60.8 51.0 76.6
 61 51.3 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:114 Resp: 457804

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

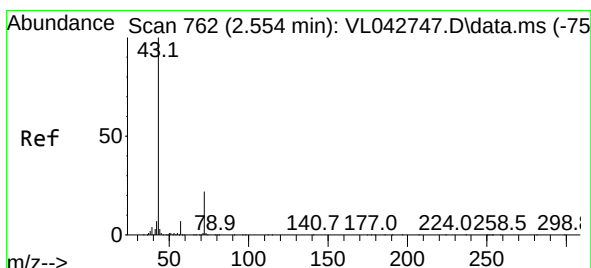
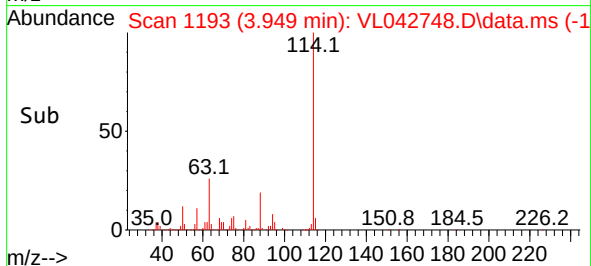
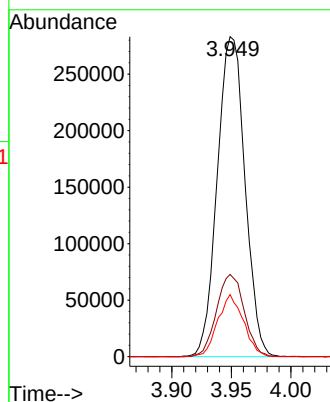
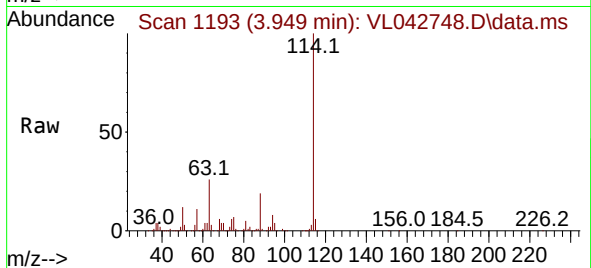
88 18.0 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#34

2-Butanone

Concen: 2.149 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042748.D

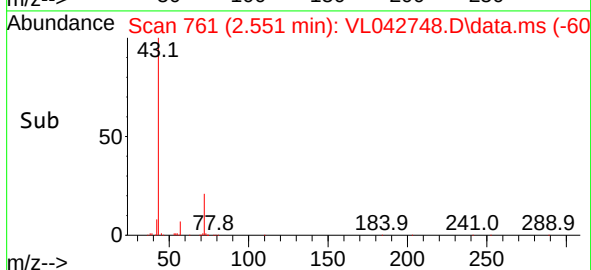
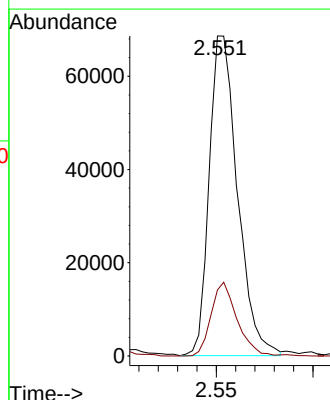
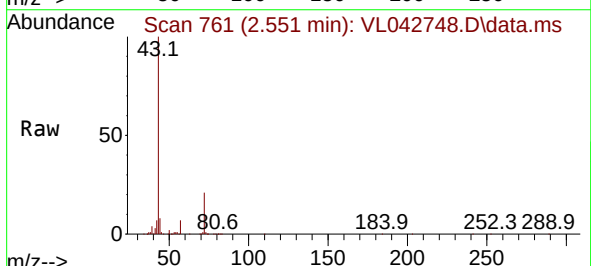
Acq: 23 Jul 2025 09:34

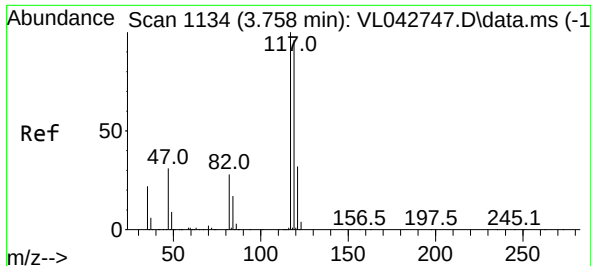
Tgt Ion: 43 Resp: 69674

Ion Ratio Lower Upper

43 100

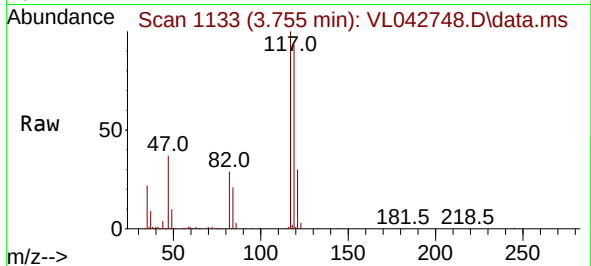
72 21.2 17.4 26.0





#35
Carbon Tetrachloride
Concen: 1.979 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

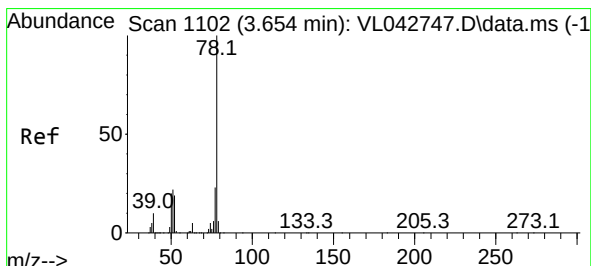
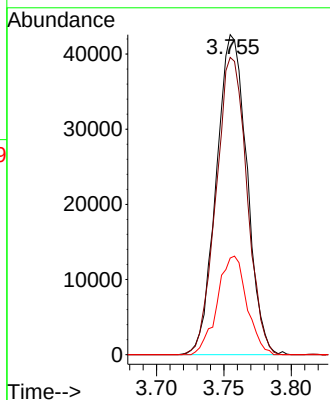
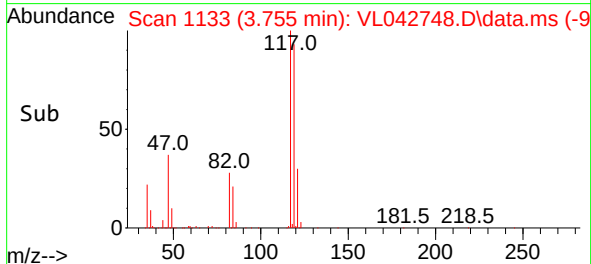
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 117 Resp: 67338
Ion Ratio Lower Upper
117 100
119 92.9 77.1 115.7
121 30.2 25.5 38.3

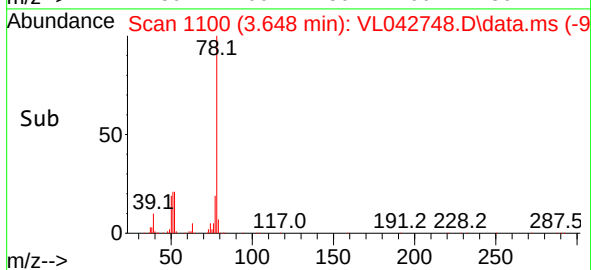
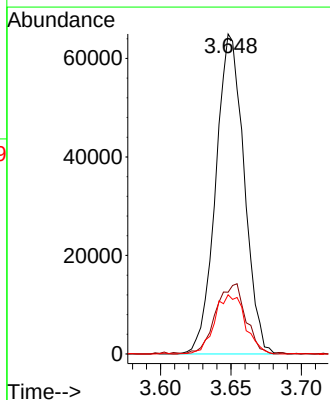
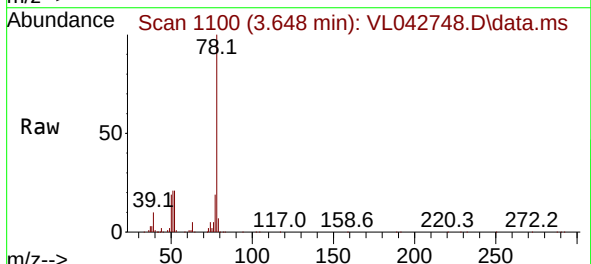
Manual Integrations
APPROVED

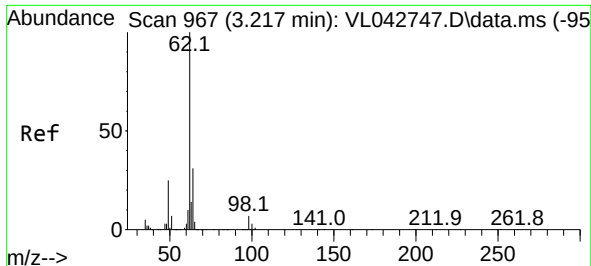
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36
Benzene
Concen: 2.101 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

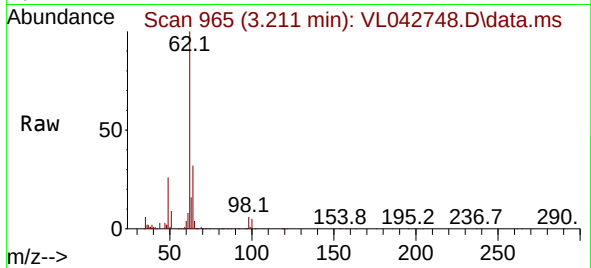
Tgt Ion: 78 Resp: 91141
Ion Ratio Lower Upper
78 100
77 19.0 18.5 27.7
50 18.5 16.2 24.2





#37
1,2-Dichloroethane
Concen: 2.046 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

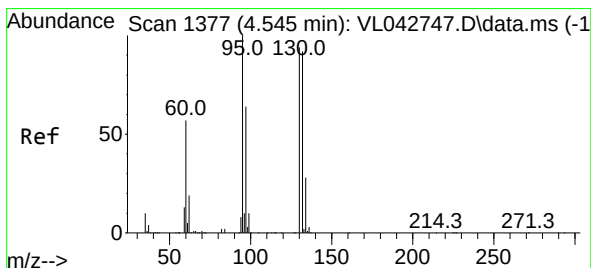
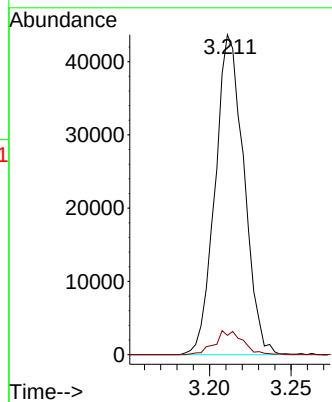
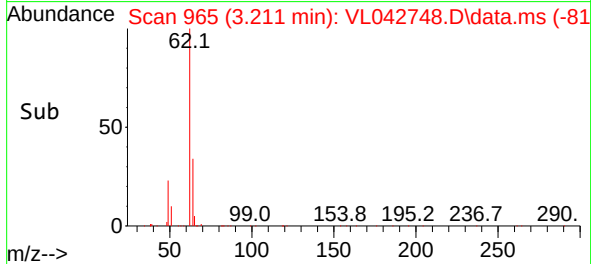
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 62 Resp: 5348
Ion Ratio Lower Upper
62 100
98 7.3 5.2 7.8

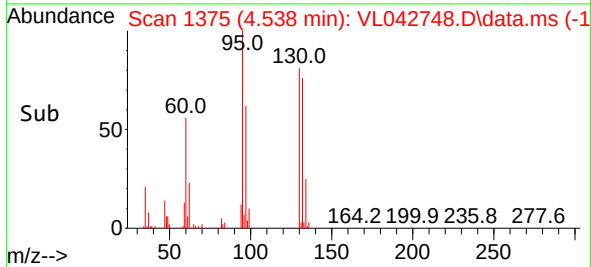
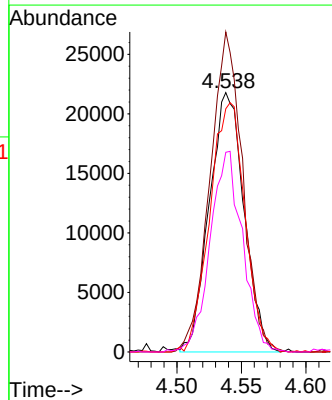
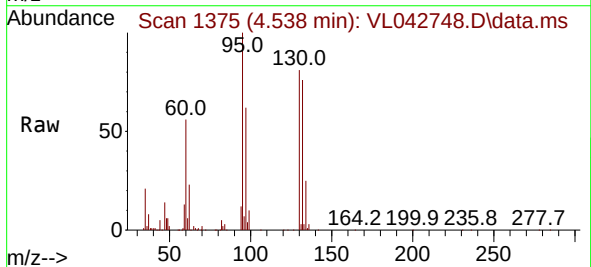
Manual Integrations
APPROVED

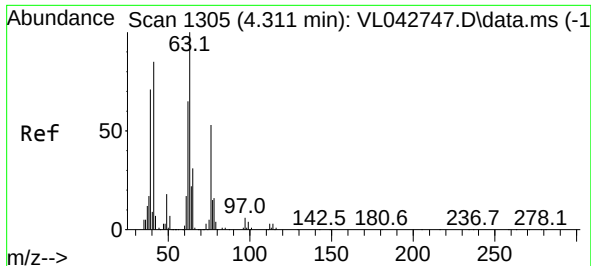
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 1.946 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:130 Resp: 40713
Ion Ratio Lower Upper
130 100
95 122.9 85.4 128.2
132 94.1 78.2 117.2
97 76.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 2.075 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

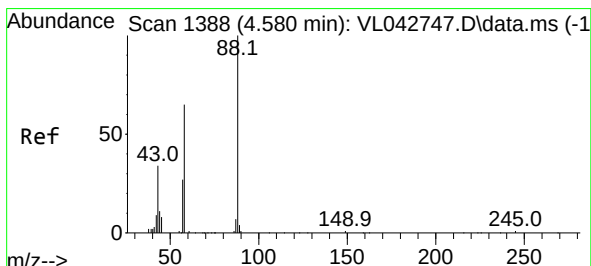
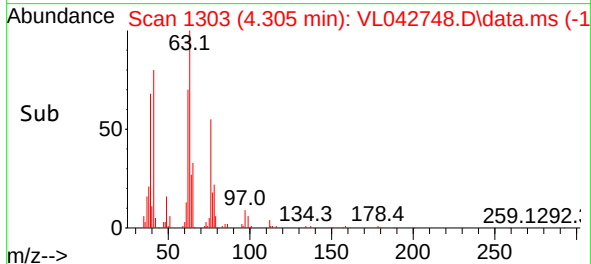
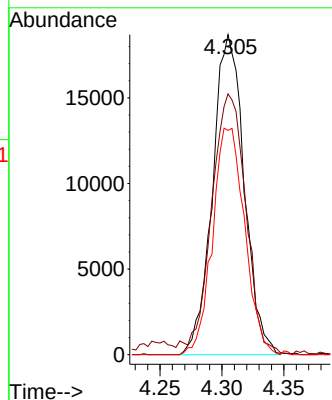
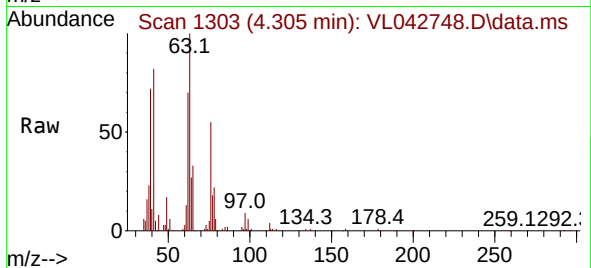
Tgt Ion: 63 Resp: 33225

Ion	Ratio	Lower	Upper
63	100		
41	80.8	68.2	102.4
62	70.1	52.0	78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 2.104 ppbv m

RT: 4.583 min Scan# 1389

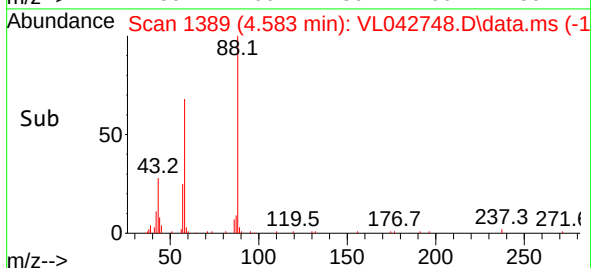
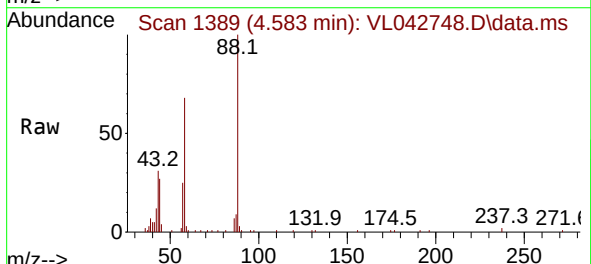
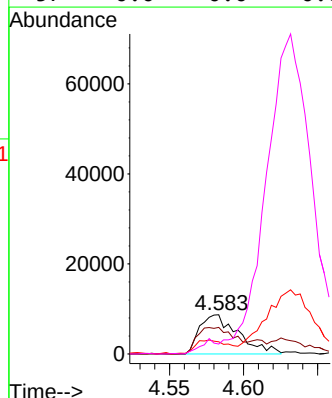
Delta R.T. 0.003 min

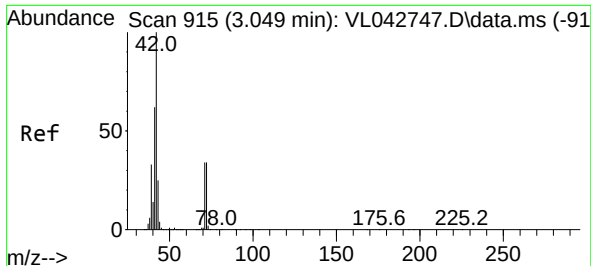
Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 88 Resp: 15890

Ion	Ratio	Lower	Upper
88	100		
58	80.9	58.8	88.2
43	0.0	28.9	43.3#
57	0.0	0.0	0.0





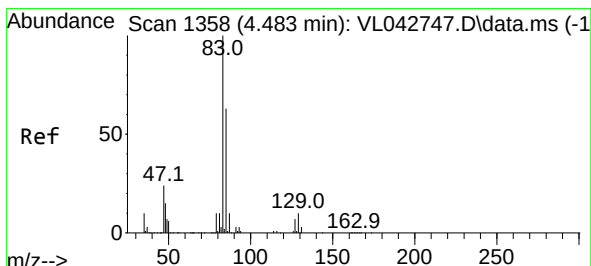
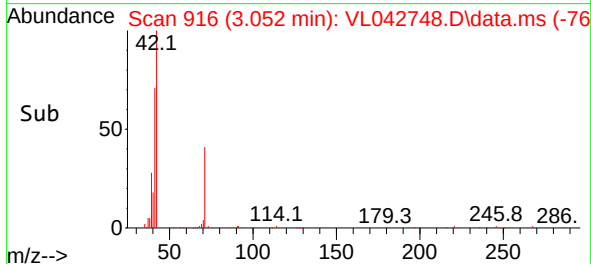
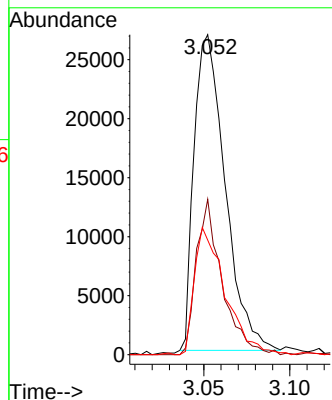
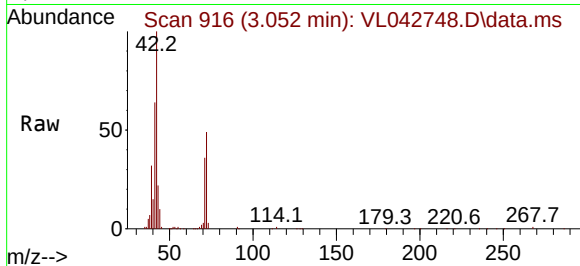
#41
Tetrahydrofuran
Concen: 2.064 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 42 Resp: 33618
Ion Ratio Lower Upper
42 100
72 41.3 30.9 46.3
71 40.4 28.6 43.0

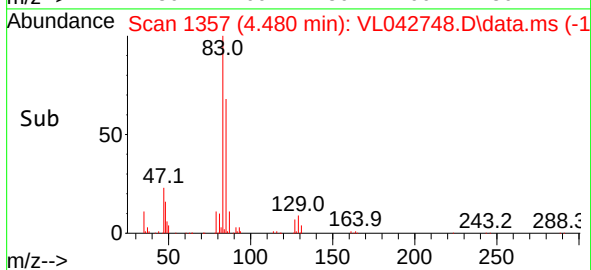
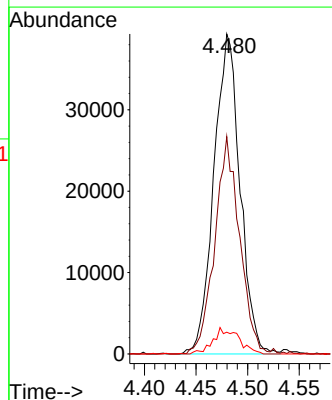
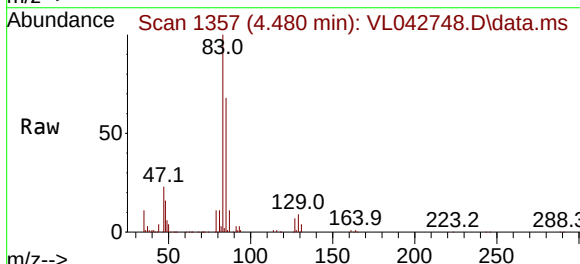
Manual Integrations
APPROVED

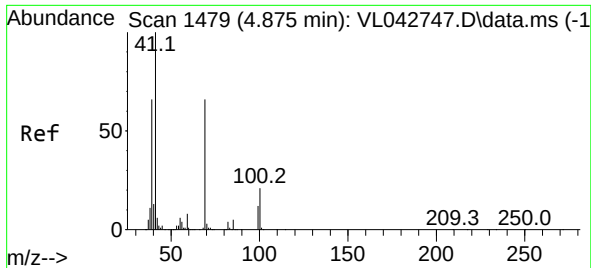
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

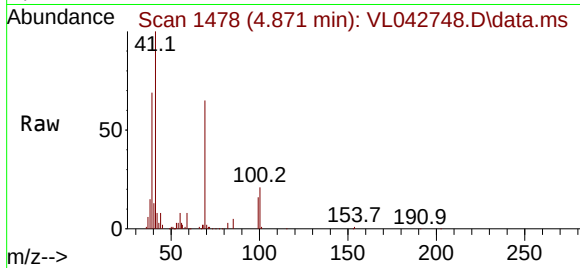
Tgt Ion: 83 Resp: 69093
Ion Ratio Lower Upper
83 100
85 67.9 50.2 75.4
127 6.8 5.4 8.2





#43
Methyl Methacrylate
Concen: 1.967 ppbv
RT: 4.871 min Scan# 1479
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

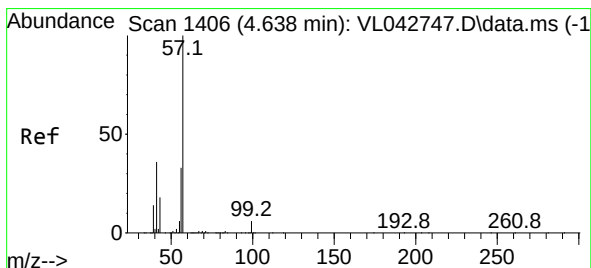
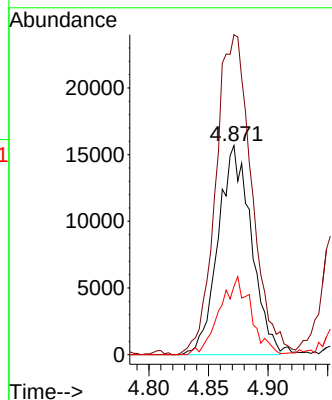
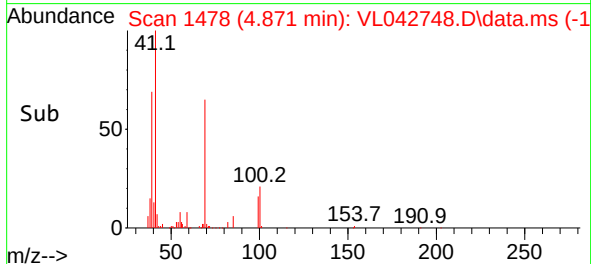
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



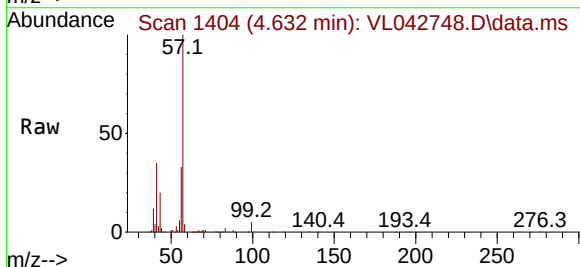
Tgt Ion: 69 Resp: 30330
Ion Ratio Lower Upper
69 100
41 164.3 125.7 188.5
100 35.5 28.6 42.8

Manual Integrations
APPROVED

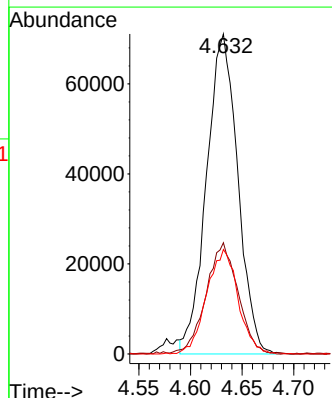
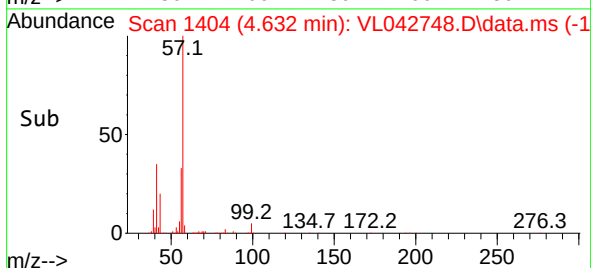
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

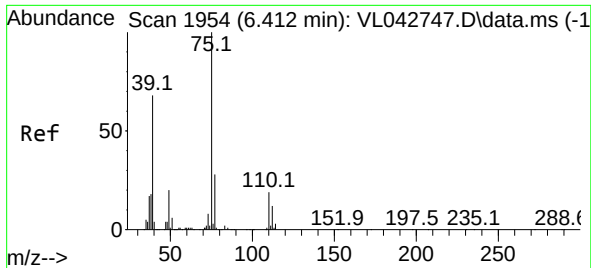


#44
2,2,4-Trimethylpentane
Concen: 2.115 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 57 Resp: 149588
Ion Ratio Lower Upper
57 100
41 36.0 28.3 42.5
56 32.9 25.8 38.6





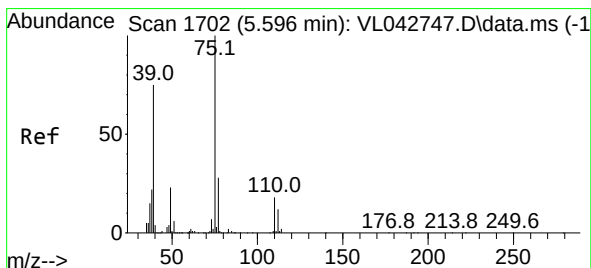
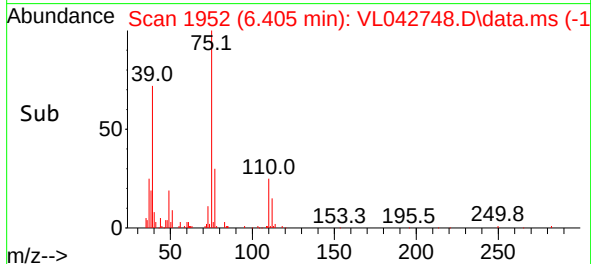
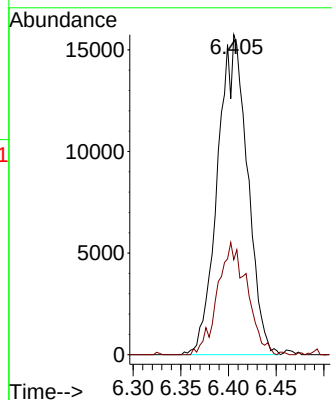
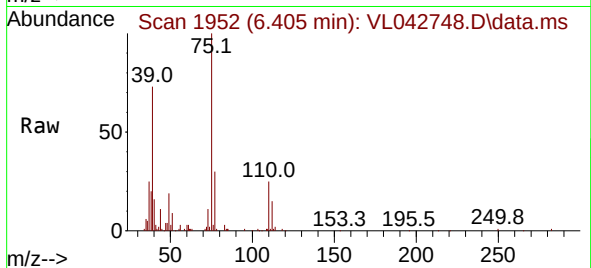
#45
t-1,3-Dichloropropene
Concen: 1.984 ppbv m
RT: 6.405 min Scan# 1954
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 75 Resp: 3433
Ion Ratio Lower Upper
75 100
77 29.7 22.4 33.6

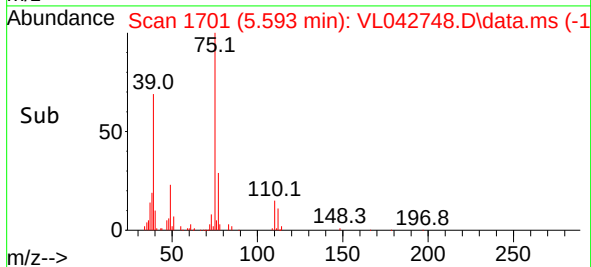
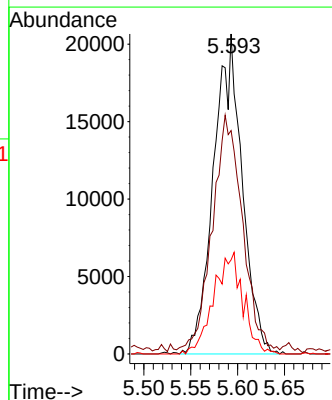
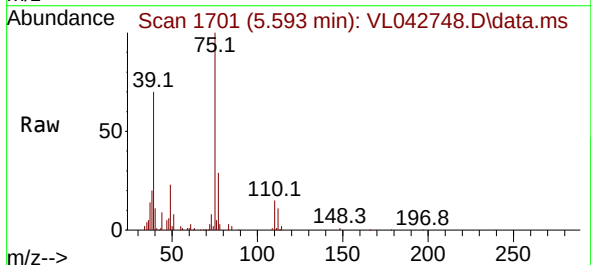
Manual Integrations
APPROVED

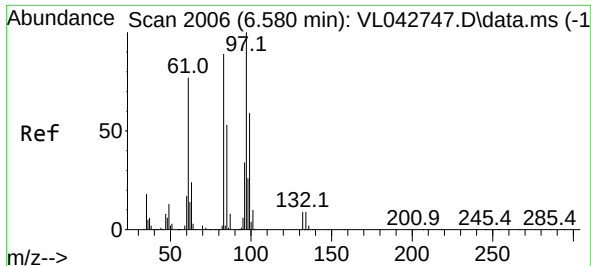
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 2.000 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

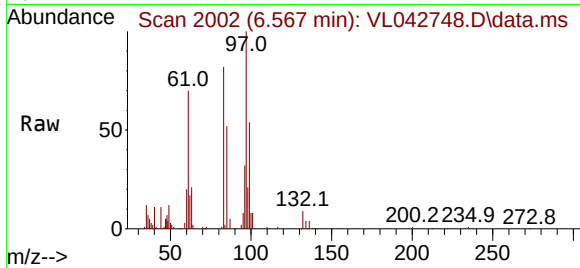
Tgt Ion: 75 Resp: 43845
Ion Ratio Lower Upper
75 100
39 69.8 60.2 90.2
77 29.4 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 2.063 ppbv m
RT: 6.567 min Scan# 2006
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

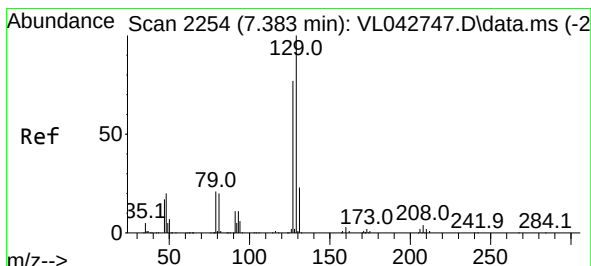
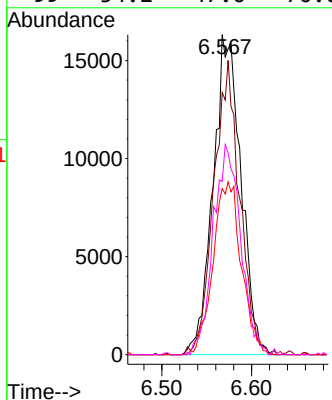
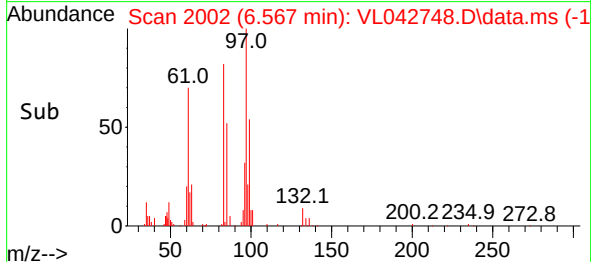
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 97 Resp: 3522
Ion Ratio Lower Upper
97 100
83 81.9 71.1 106.7
85 51.9 43.0 64.4
99 54.2 47.0 70.6

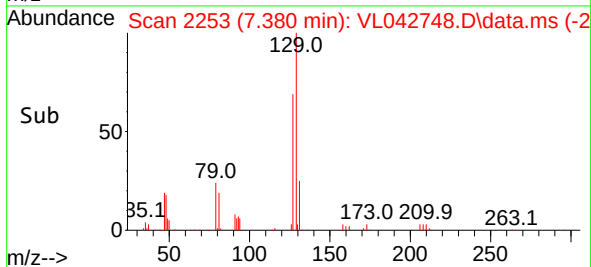
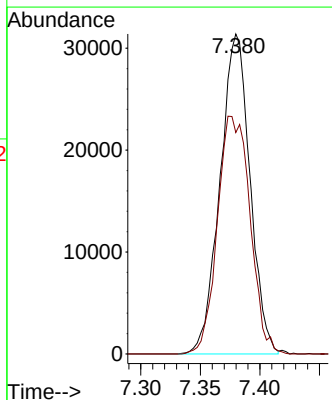
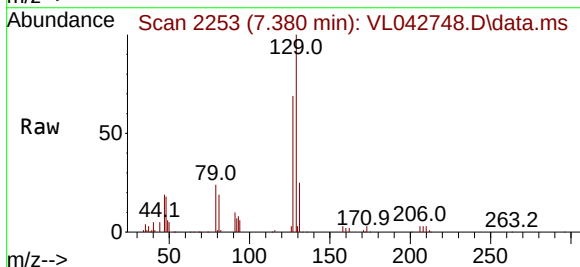
Manual Integrations
APPROVED

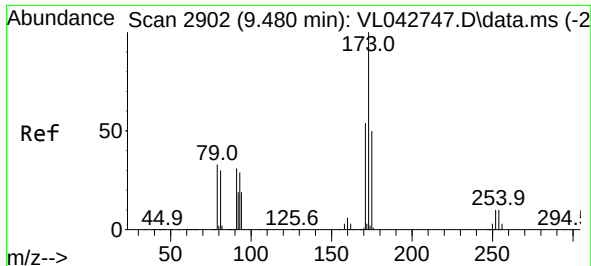
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#48
Dibromochloromethane
Concen: 2.026 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:129 Resp: 54906
Ion Ratio Lower Upper
129 100
127 80.8 38.7 116.1





#49

Bromoform

Concen: 2.003 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042748.D

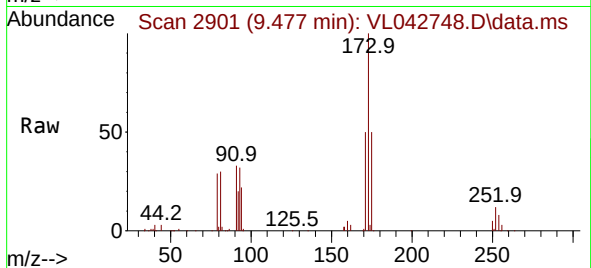
Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



Tgt Ion: 173 Resp: 47340

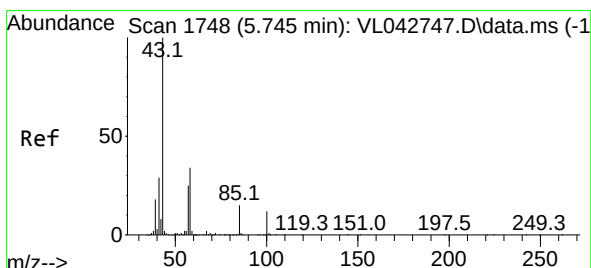
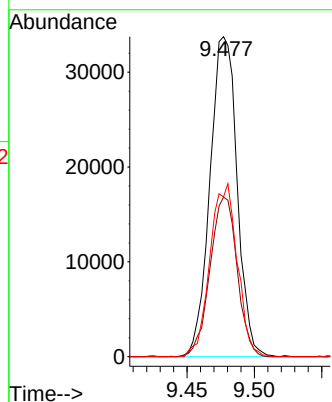
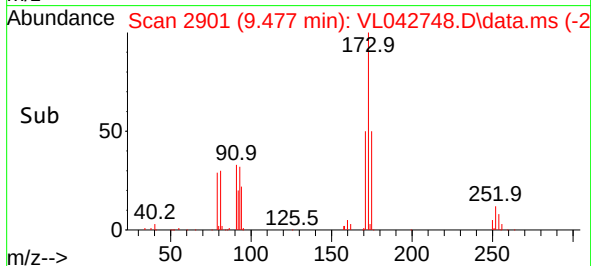
Ion	Ratio	Lower	Upper
173	100		
175	49.7	38.4	57.6
171	54.2	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 2.120 ppbv m

RT: 5.748 min Scan# 1749

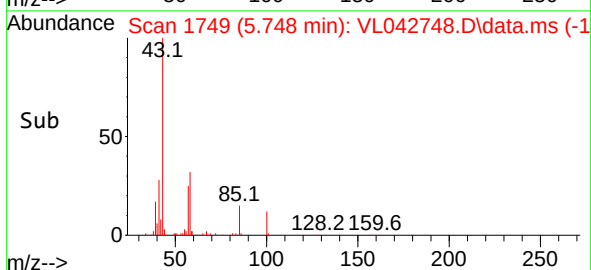
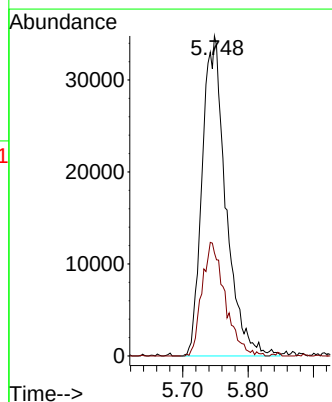
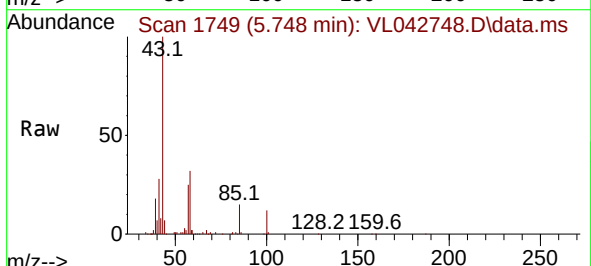
Delta R.T. 0.003 min

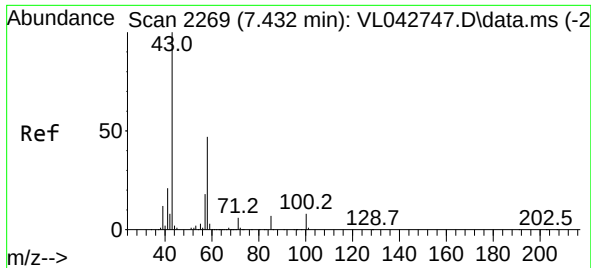
Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 43 Resp: 87566

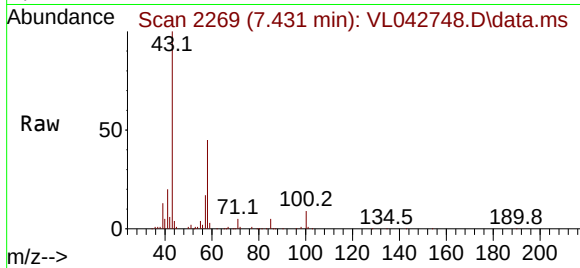
Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.8	41.8





#51
2-Hexanone
Concen: 2.157 ppbv
RT: 7.431 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

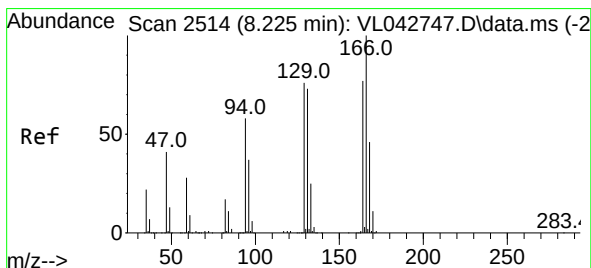
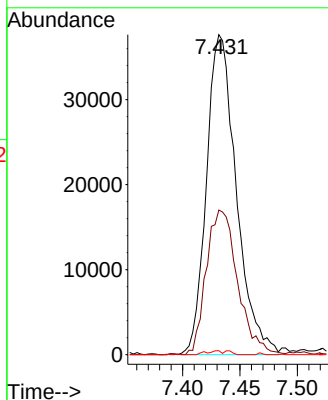
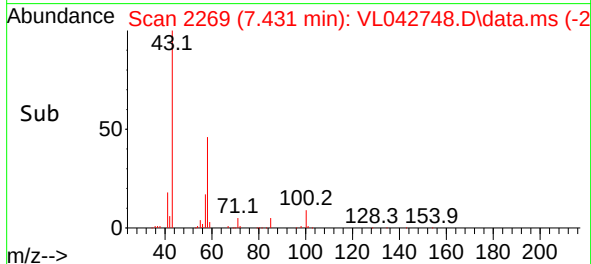
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



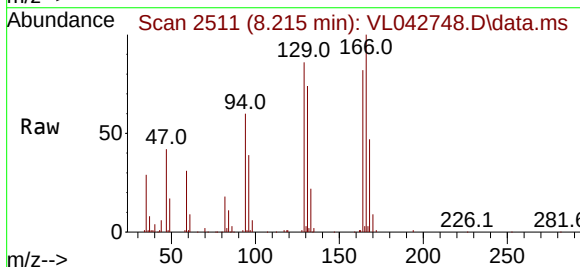
Tgt Ion: 43 Resp: 6809
Ion Ratio Lower Upper
43 100
58 48.2 38.0 57.0
98 1.0 0.2 0.4

Manual Integrations
APPROVED

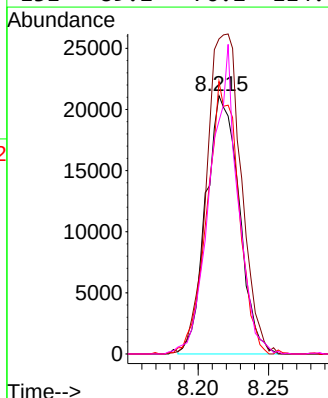
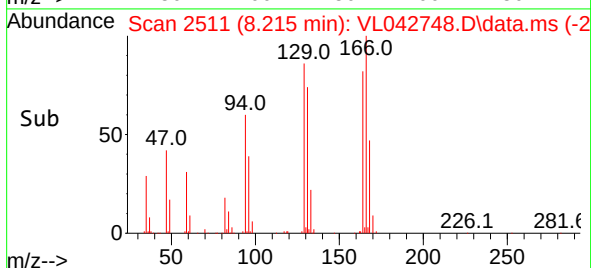
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

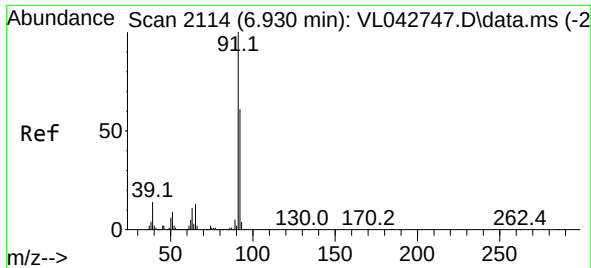


#52
Tetrachloroethene
Concen: 1.917 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion:164 Resp: 34568
Ion Ratio Lower Upper
164 100
166 121.7 104.0 156.0
129 103.9 79.2 118.8
131 89.2 76.2 114.4





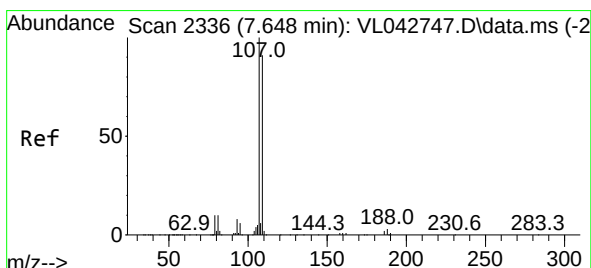
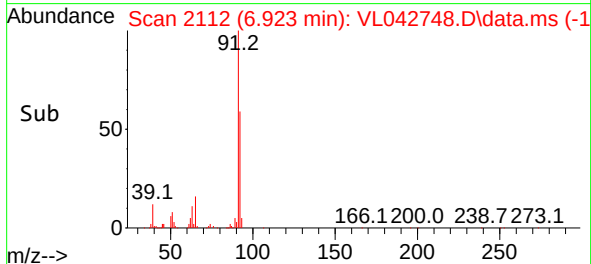
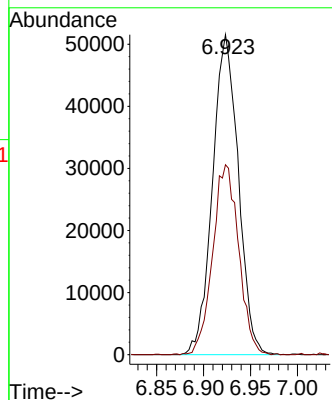
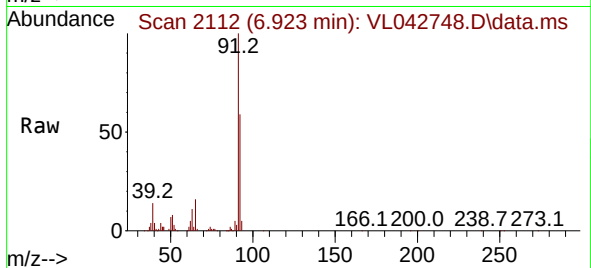
#53
Toluene
Concen: 2.111 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 98340
Ion Ratio Lower Upper
91 100
92 59.8 48.0 72.0

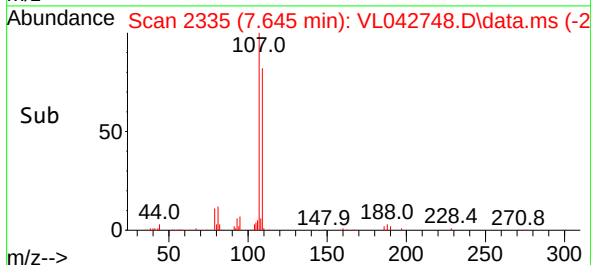
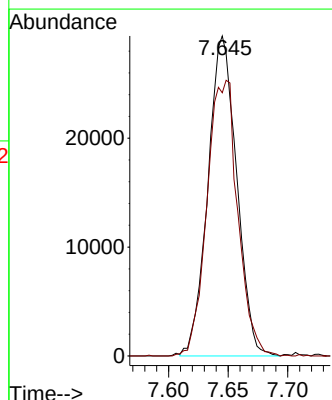
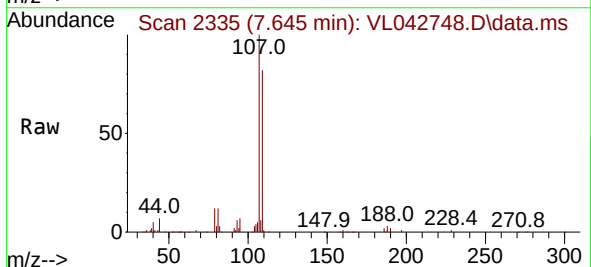
Manual Integrations
APPROVED

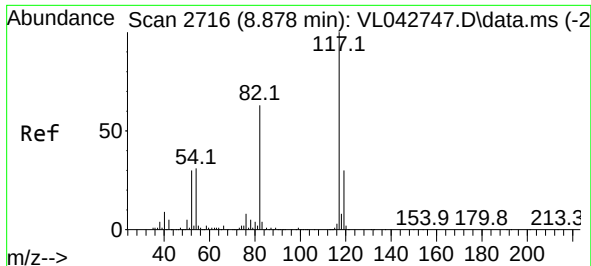
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 2.042 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

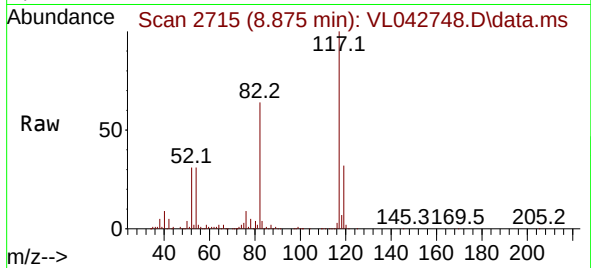
Tgt Ion:107 Resp: 49346
Ion Ratio Lower Upper
107 100
109 82.2 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

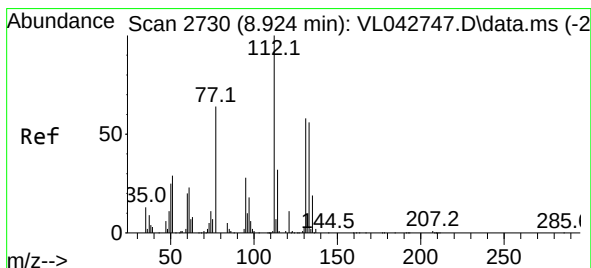
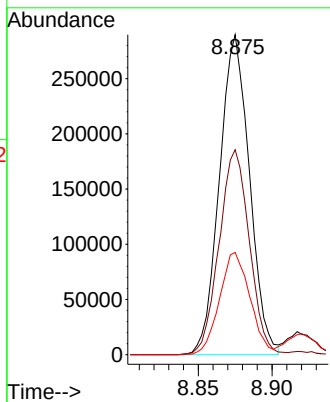
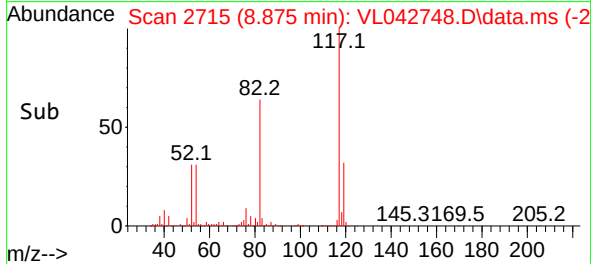
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:117 Resp: 410740
Ion Ratio Lower Upper
117 100
82 65.2 53.3 79.9
119 33.2 25.8 38.6

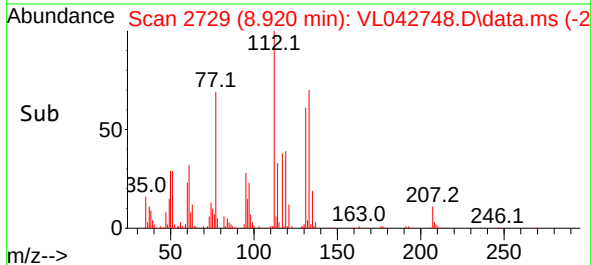
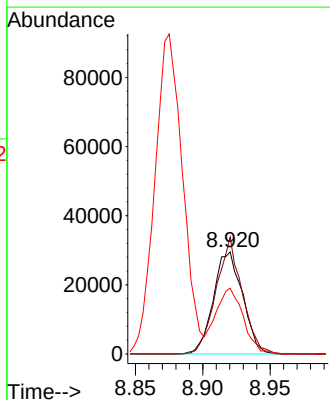
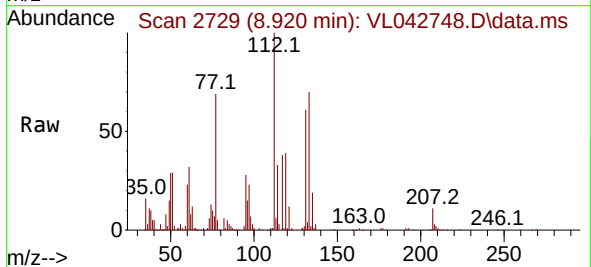
Manual Integrations
APPROVED

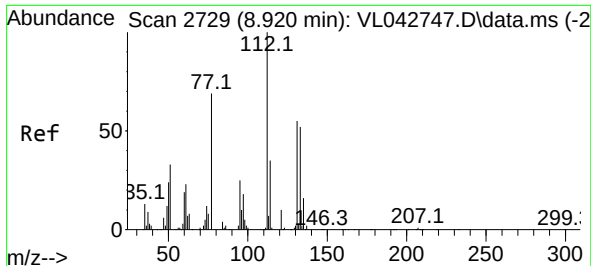
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 2.079 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

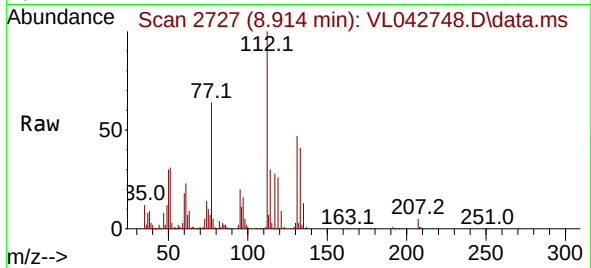
Tgt Ion:131 Resp: 44409
Ion Ratio Lower Upper
131 100
133 102.1 76.8 115.2
119 54.2 49.7 74.5





#57
Chlorobenzene
Concen: 2.101 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

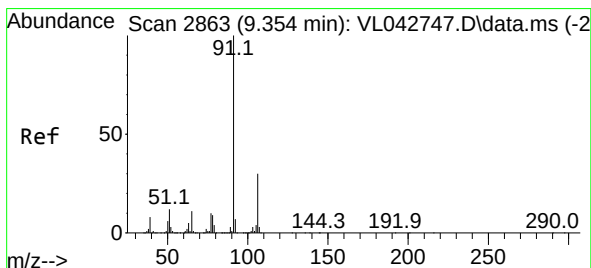
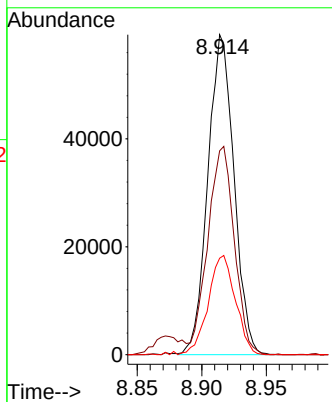
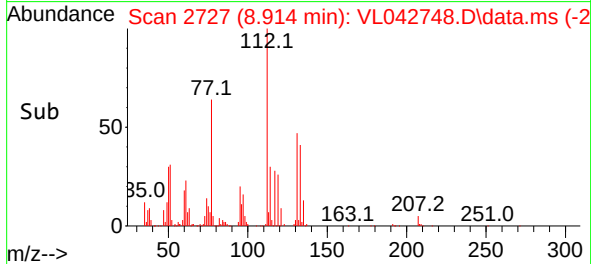
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:112 Resp: 8350
Ion Ratio Lower Upper
112 100
77 63.5 56.4 84.6
114 30.2 31.2 38.2

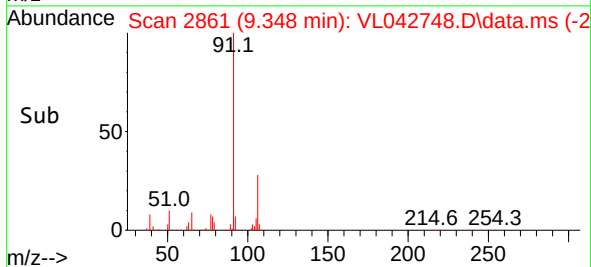
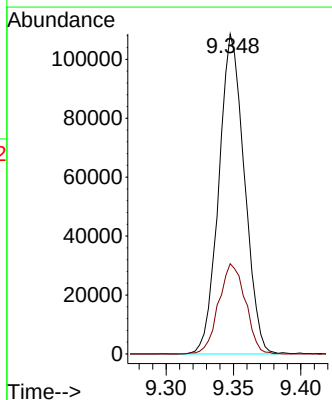
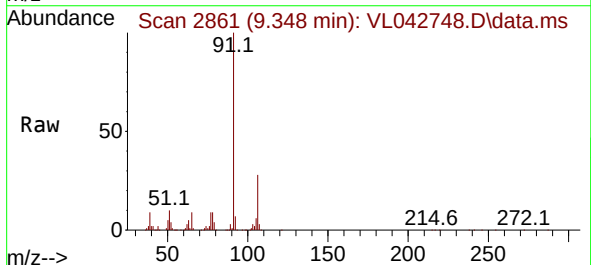
Manual Integrations
APPROVED

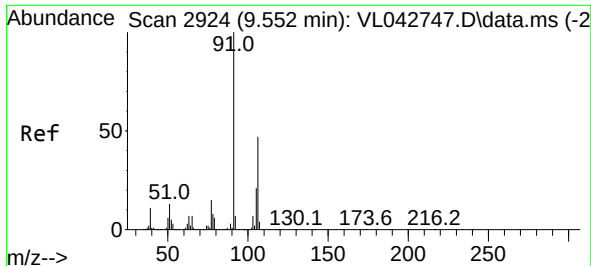
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 2.208 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 143251
Ion Ratio Lower Upper
91 100
106 28.2 23.8 35.6





#59

m/p-Xylene

Concen: 4.290 ppbv m

RT: 9.545 min Scan# 2924

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 22246

Ion Ratio Lower Upper

91 100

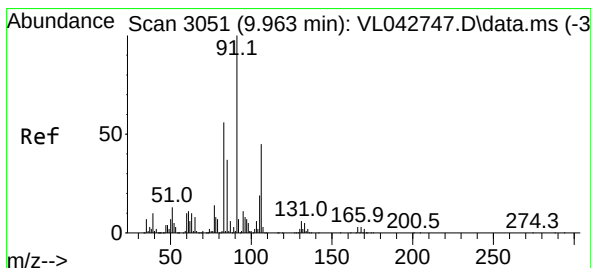
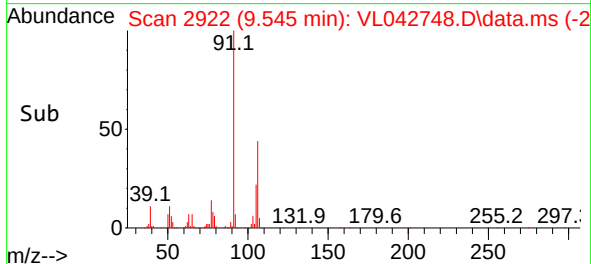
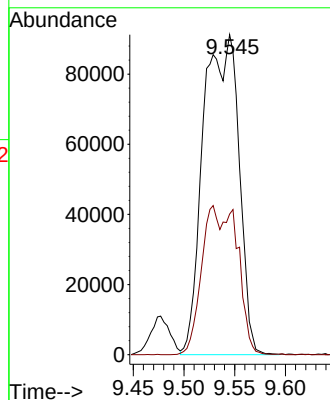
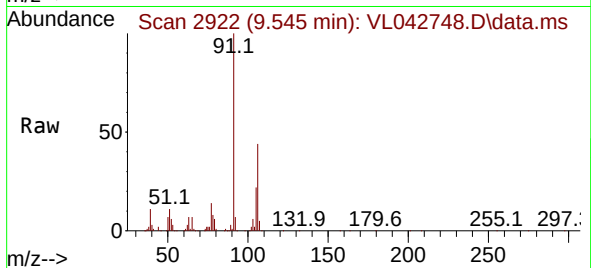
106 0.0 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#60

o-Xylene

Concen: 2.190 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.007 min

Lab File: VL042748.D

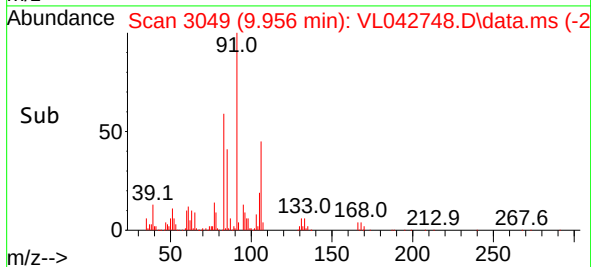
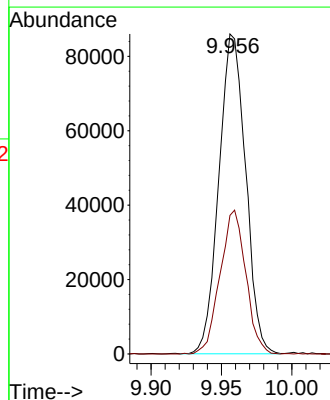
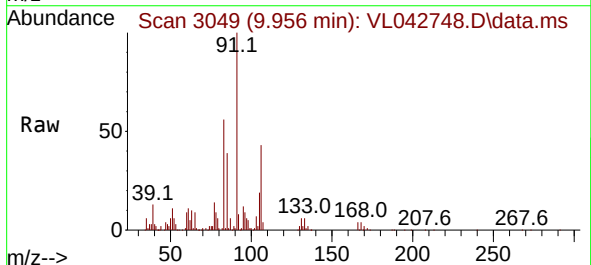
Acq: 23 Jul 2025 09:34

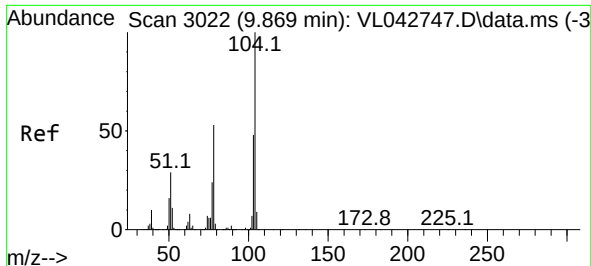
Tgt Ion: 91 Resp: 113462

Ion Ratio Lower Upper

91 100

106 43.4 22.0 66.0





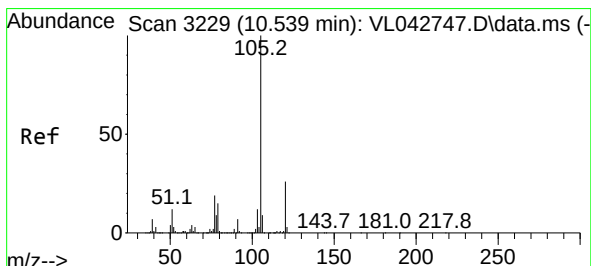
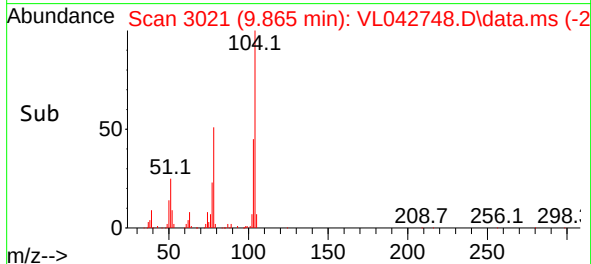
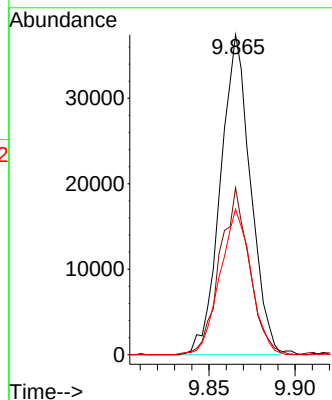
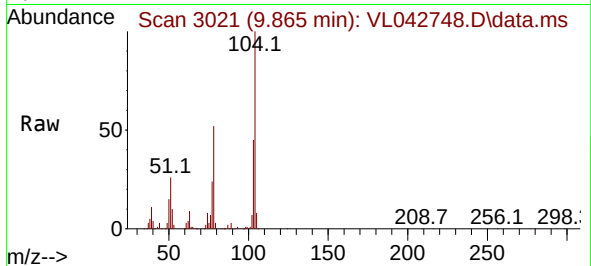
#61
Styrene
Concen: 2.081 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion:104 Resp: 4535
Ion Ratio Lower Upper
104 100
78 51.7 41.5 62.3
103 47.1 37.5 56.3

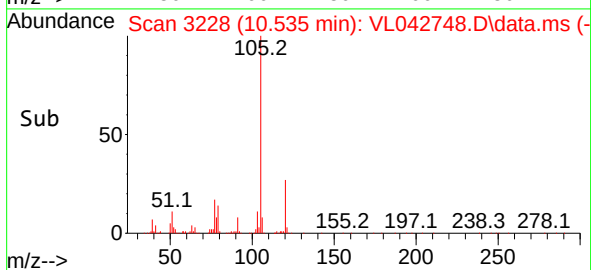
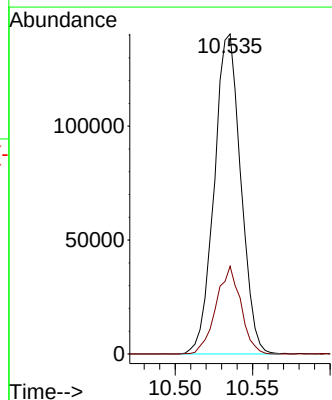
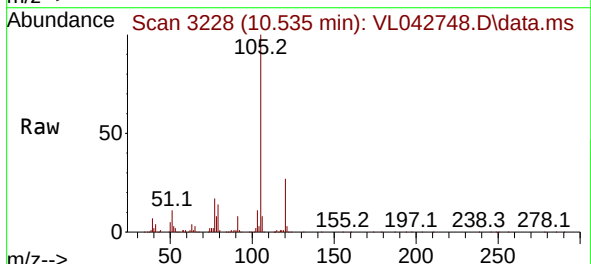
Manual Integrations
APPROVED

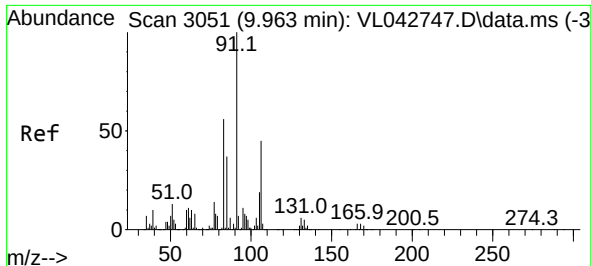
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 2.187 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

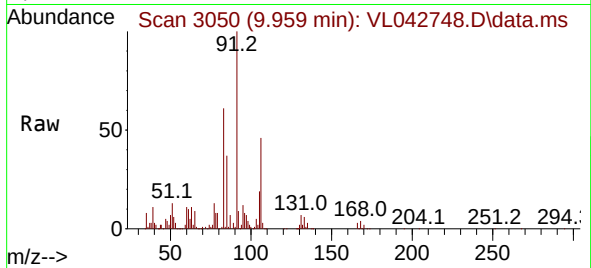
Tgt Ion:105 Resp: 167108
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 1.954 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

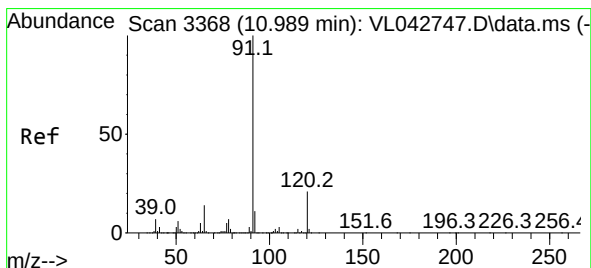
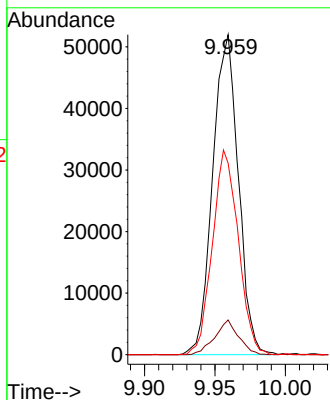
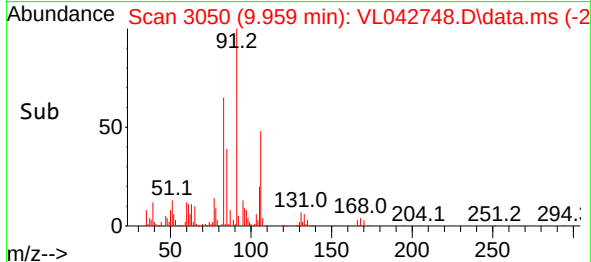
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



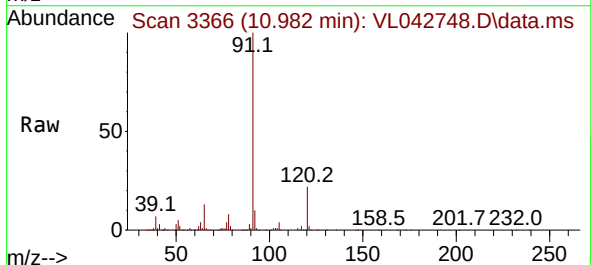
Tgt Ion: 83 Resp: 65928
Ion Ratio Lower Upper
83 100
131 10.1 5.0 15.0
85 64.7 32.6 97.7

Manual Integrations
APPROVED

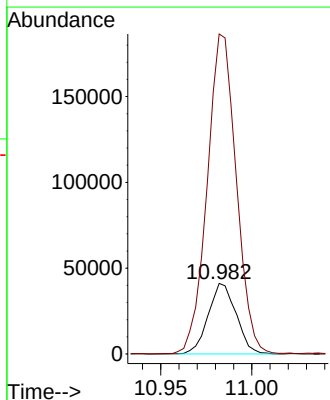
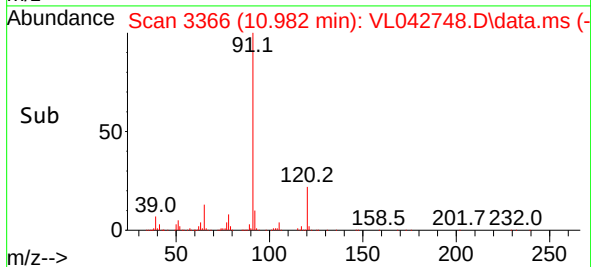
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

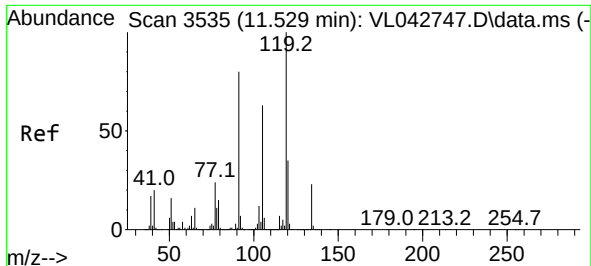


#64
n-propylbenzene
Concen: 2.198 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



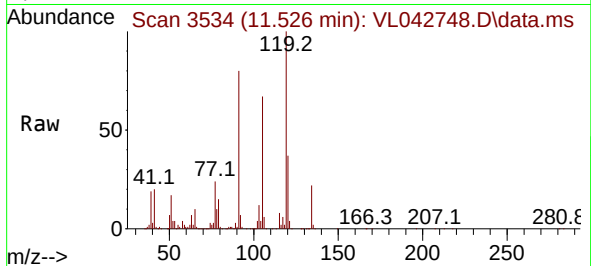
Tgt Ion:120 Resp: 43789
Ion Ratio Lower Upper
120 100
91 472.1 372.7 559.1





#65
tert-Butylbenzene
Concen: 2.226 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

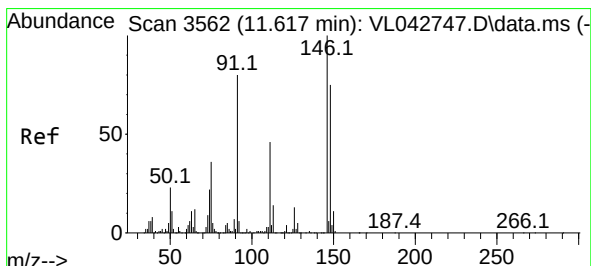
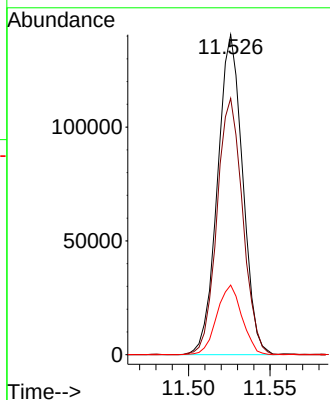
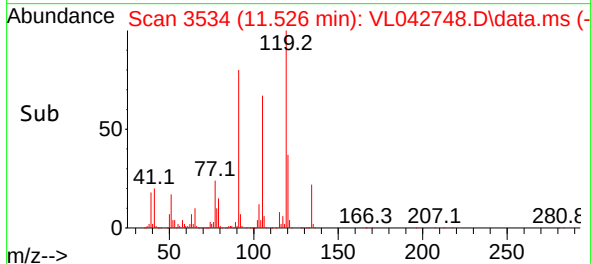
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



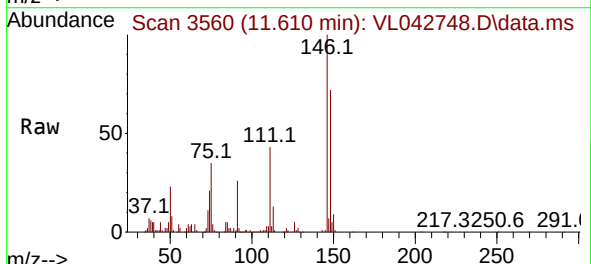
Tgt Ion: 119 Resp: 15108
Ion Ratio Lower Upper
119 100
91 81.8 64.0 96.0
134 21.7 17.3 25.9

Manual Integrations
APPROVED

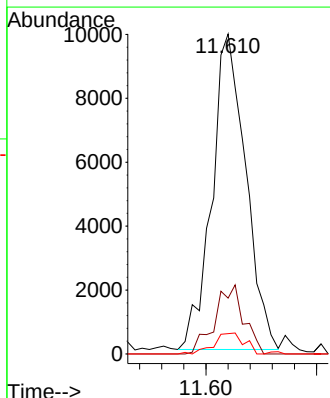
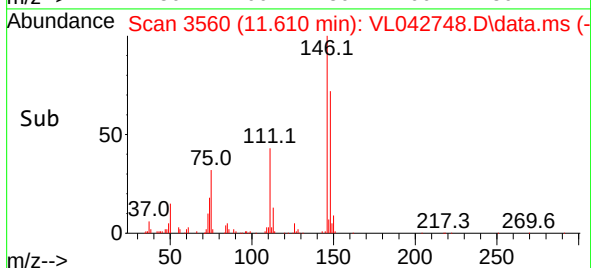
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

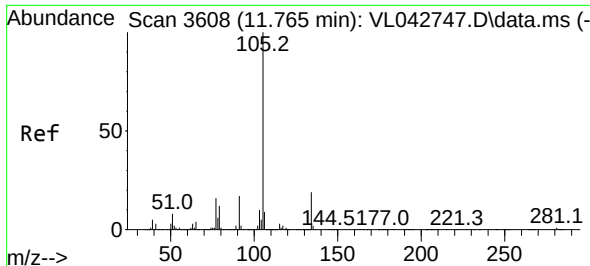


#66
Benzyl Chloride
Concen: 1.882 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



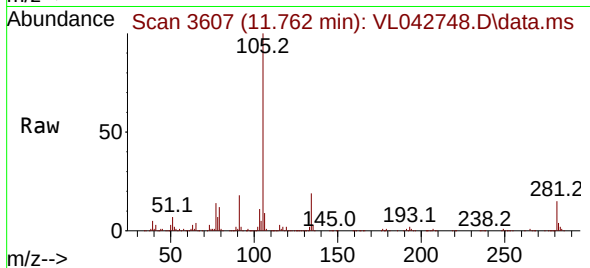
Tgt Ion: 91 Resp: 10485
Ion Ratio Lower Upper
91 100
126 18.8 14.4 21.6
128 6.2 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 2.206 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

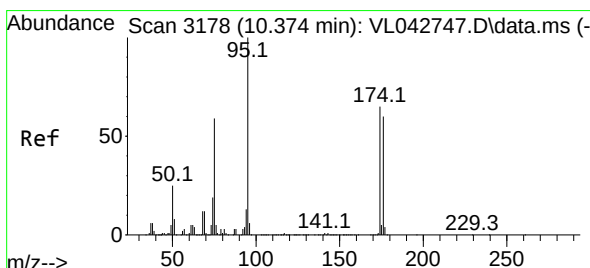
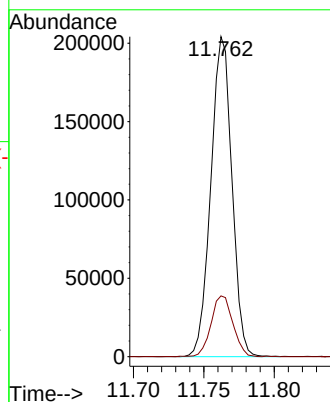
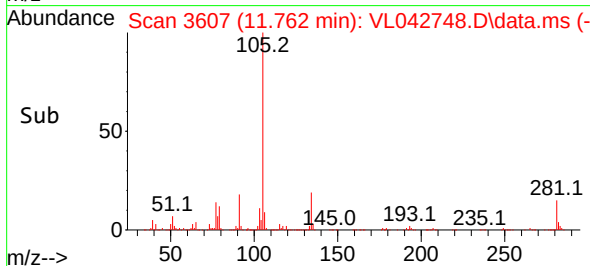
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:105 Resp: 212925
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3

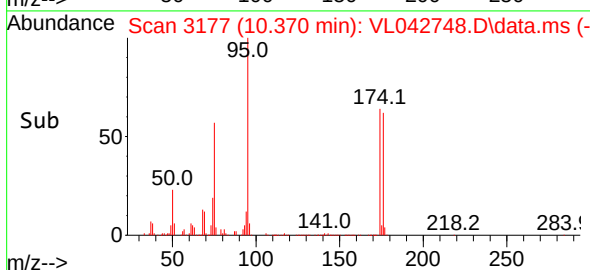
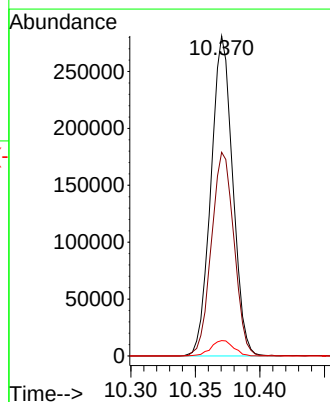
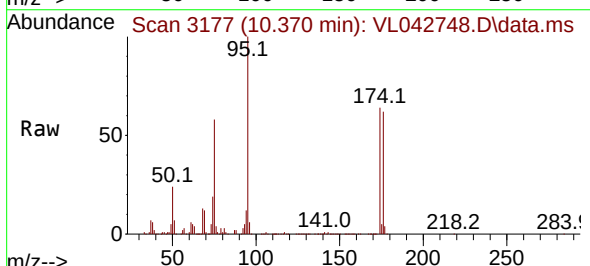
Manual Integrations
 APPROVED

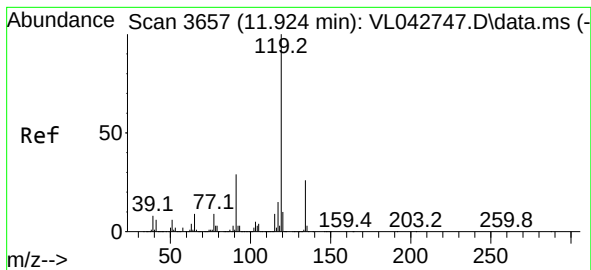
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.160 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

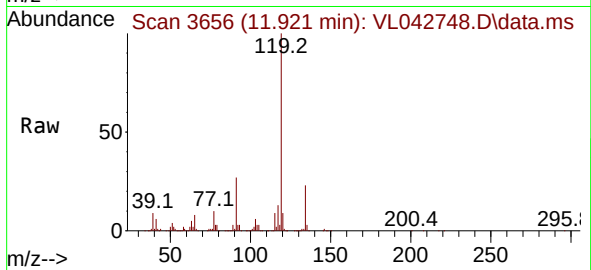
Tgt Ion: 95 Resp: 330476
 Ion Ratio Lower Upper
 95 100
 174 66.2 53.8 80.6
 175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 2.230 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

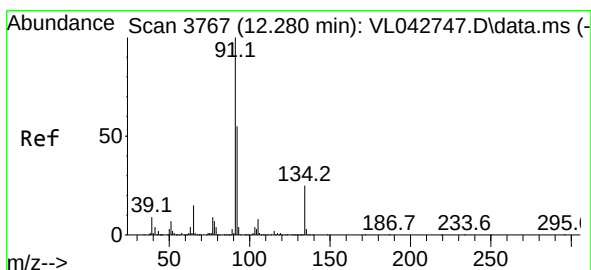
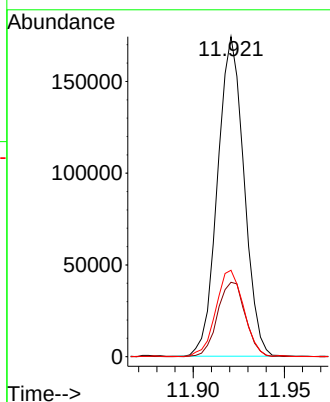
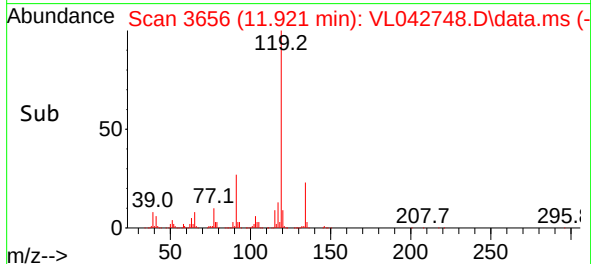
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



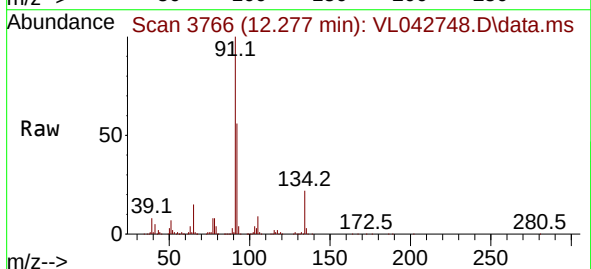
Tgt Ion: 119 Resp: 17555
Ion Ratio Lower Upper
119 100
134 24.7 20.6 31.0
91 29.0 23.2 34.8

Manual Integrations
APPROVED

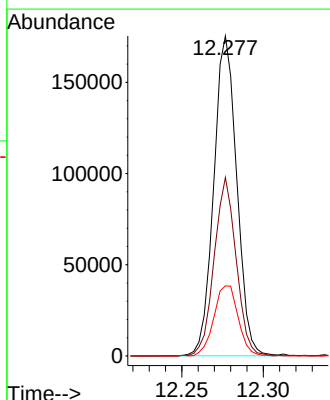
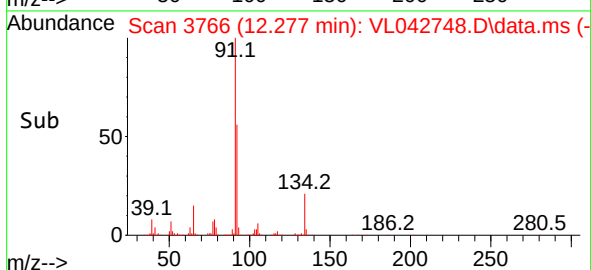
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

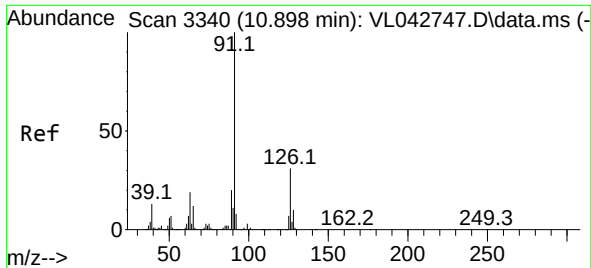


#70
n-Butylbenzene
Concen: 2.258 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 91 Resp: 171675
Ion Ratio Lower Upper
91 100
92 53.7 43.4 65.2
134 23.4 19.6 29.4





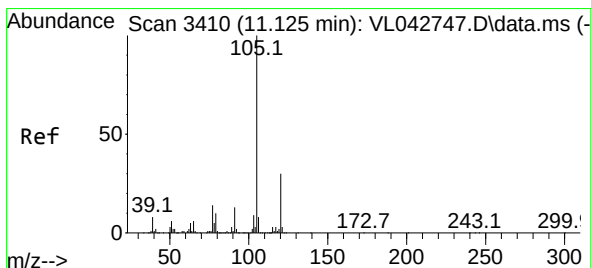
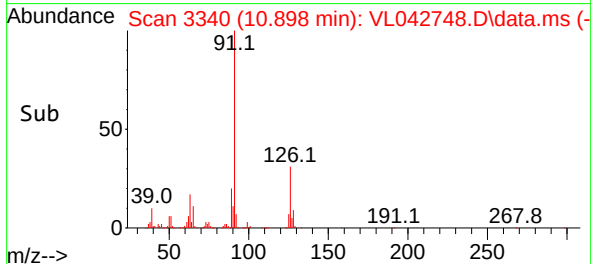
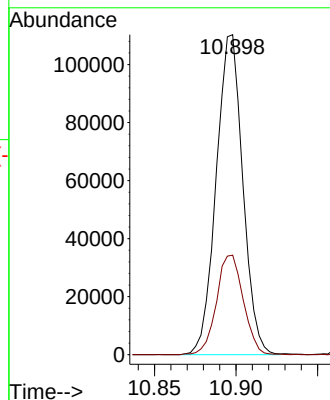
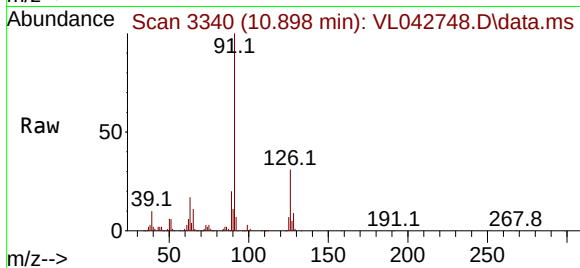
#71
2-Chlorotoluene
Concen: 2.134 ppbv
RT: 10.898 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 125039
Ion Ratio Lower Upper
91 100
126 31.4 12.0 48.2

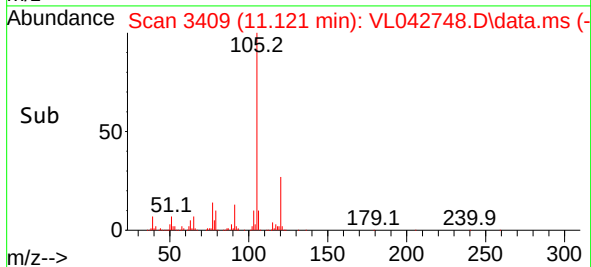
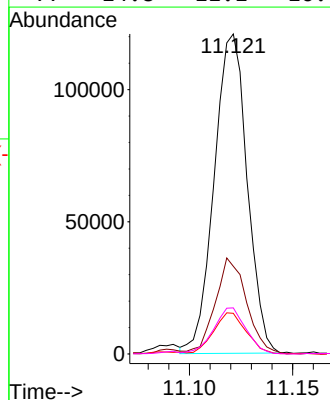
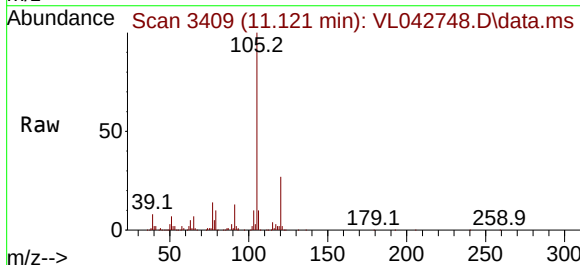
Manual Integrations
APPROVED

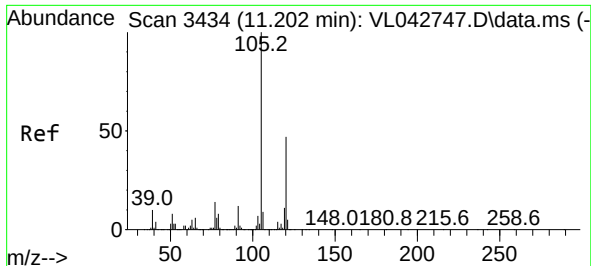
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 2.168 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 134097
Ion Ratio Lower Upper
105 100
120 29.7 24.4 36.6
91 13.7 10.6 15.8
77 14.8 11.1 16.7





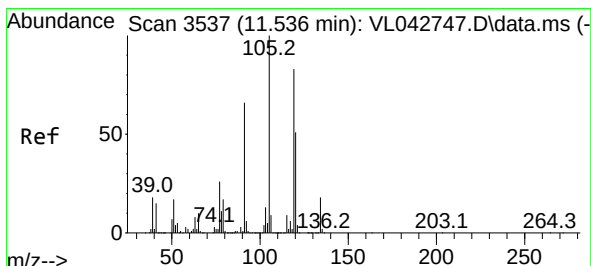
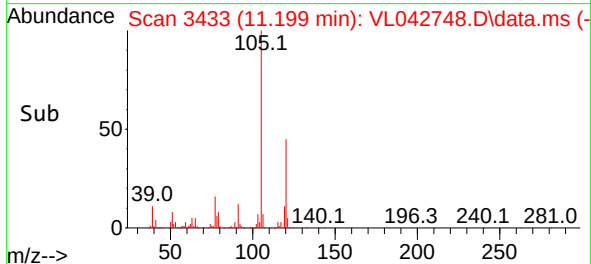
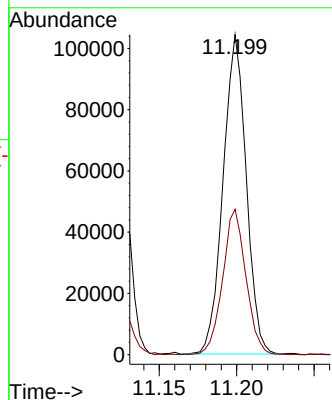
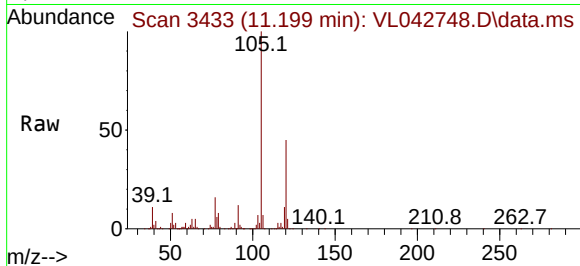
#73
1,3,5-Trimethylbenzene
Concen: 2.122 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:105 Resp: 10805
Ion Ratio Lower Upper
105 100
120 45.6 37.8 56.8

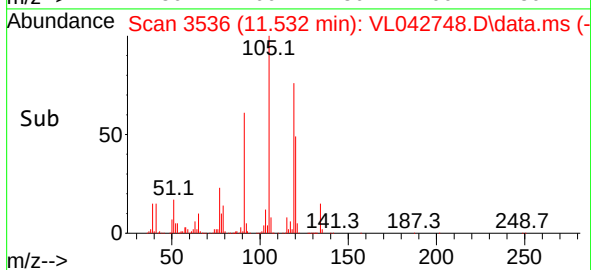
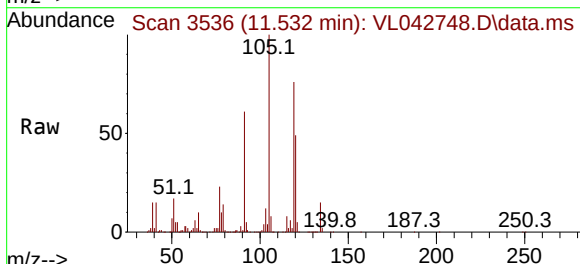
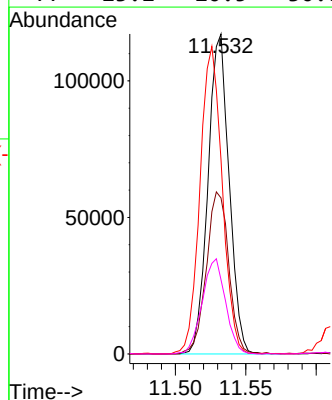
Manual Integrations
APPROVED

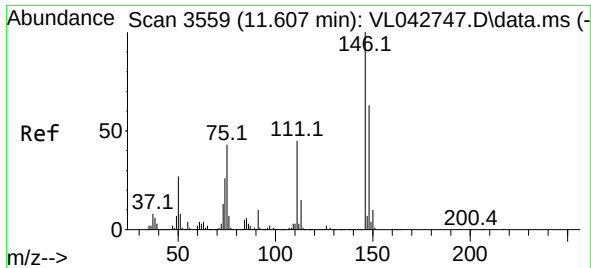
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#74
1,2,4-Trimethylbenzene
Concen: 2.201 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 122295
Ion Ratio Lower Upper
105 100
120 48.6 40.8 61.2
91 60.6 53.0 79.4
77 23.2 20.5 30.7





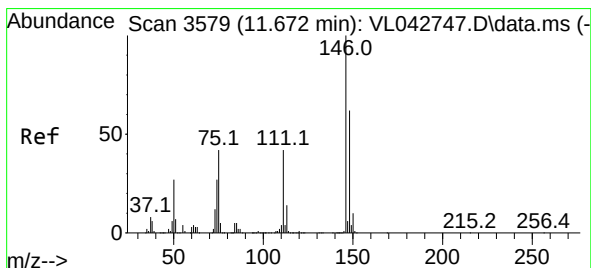
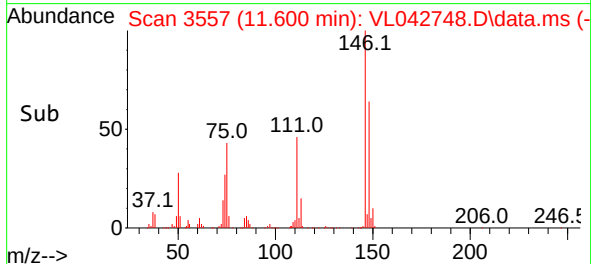
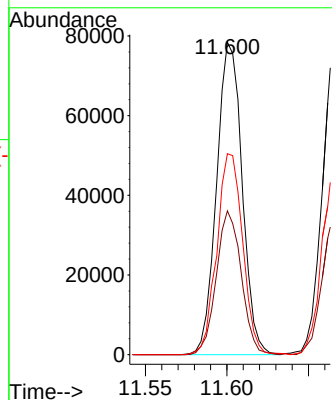
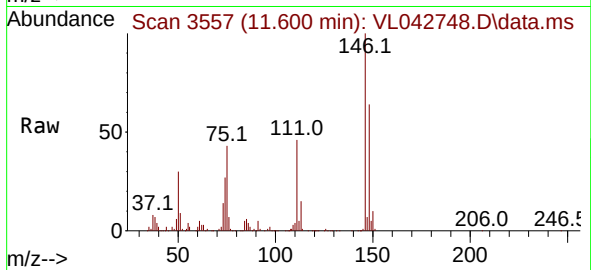
#75
1,3-Dichlorobenzene
Concen: 2.188 ppbv
RT: 11.600 min Scan# 3559
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 85254
Ion Ratio Lower Upper
146 100
111 45.0 22.7 68.0
148 65.2 31.9 95.5

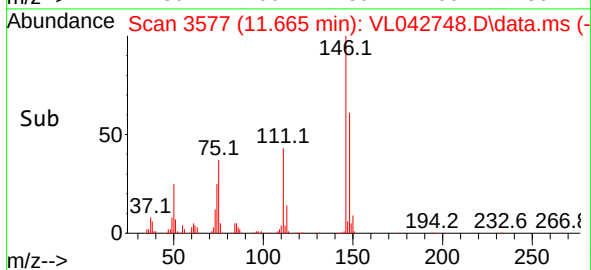
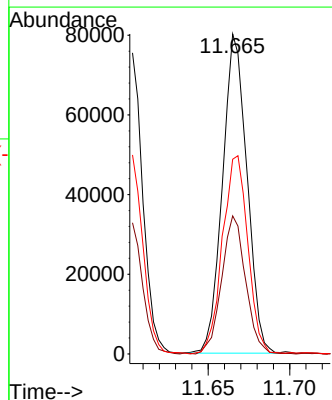
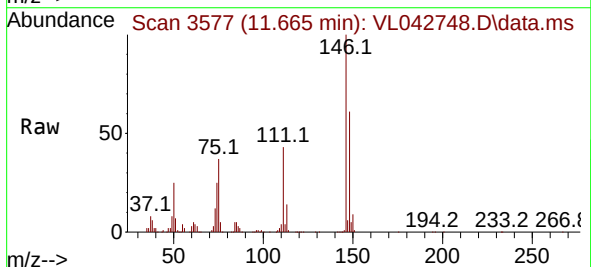
Manual Integrations
APPROVED

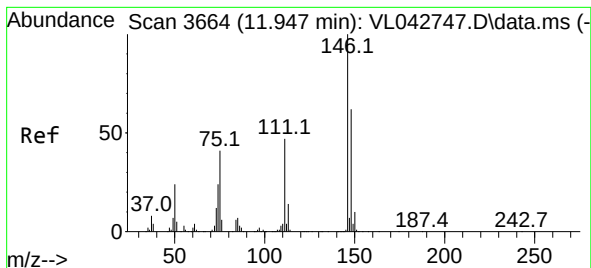
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#76
1,4-Dichlorobenzene
Concen: 2.189 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 83440
Ion Ratio Lower Upper
146 100
111 42.6 21.4 64.2
148 64.9 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 2.150 ppbv

RT: 11.943 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

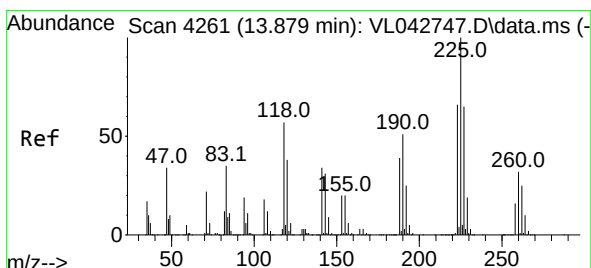
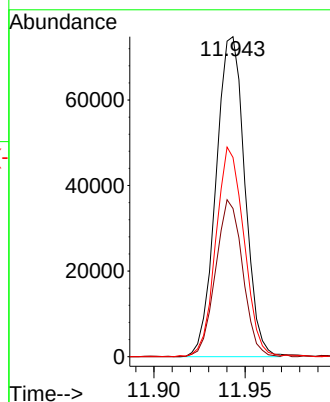
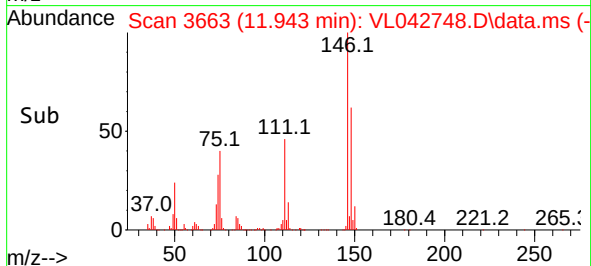
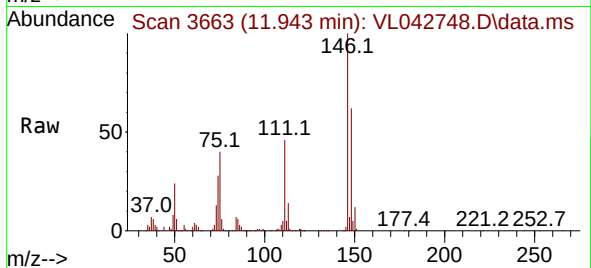
VSTDICC002

Tgt Ion:146	Resp:	8231
Ion Ratio	Lower	Upper
146	100	
111	46.6	23.7 71.1
148	64.3	32.6 97.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.259 ppbv

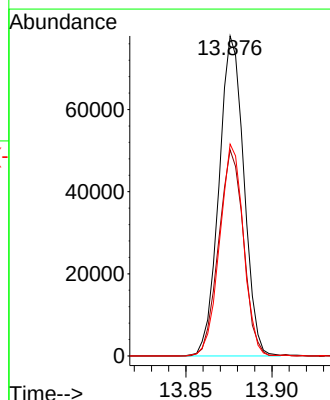
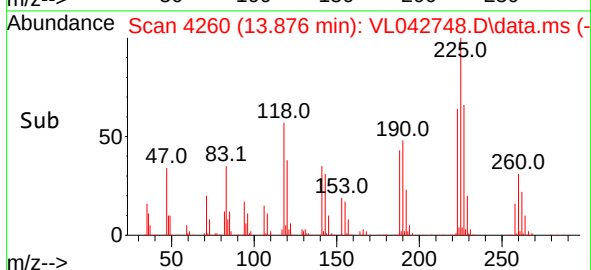
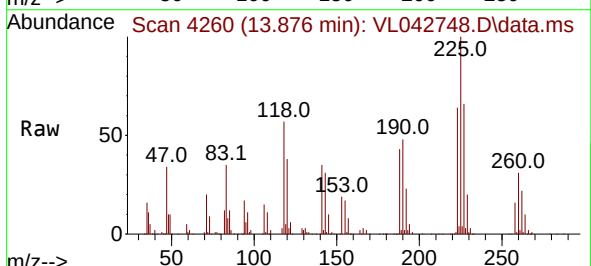
RT: 13.876 min Scan# 4260

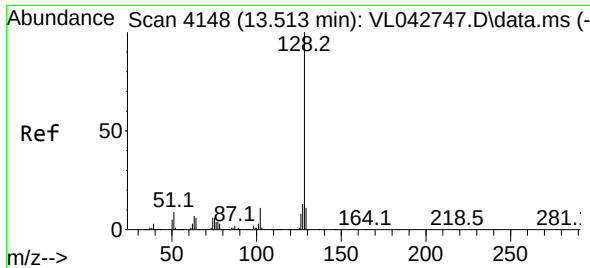
Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

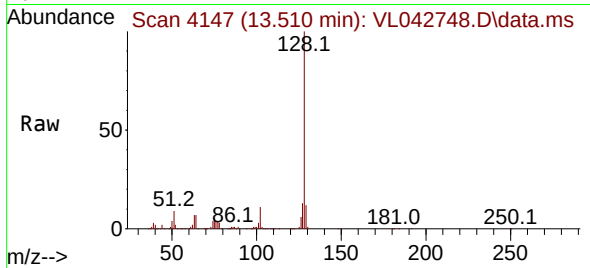
Tgt Ion:225	Resp:	78291
Ion Ratio	Lower	Upper
225	100	
223	64.2	50.7 76.1
227	63.3	50.5 75.7





#79
Naphthalene
Concen: 1.690 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

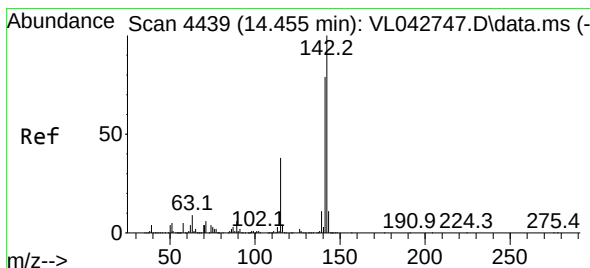
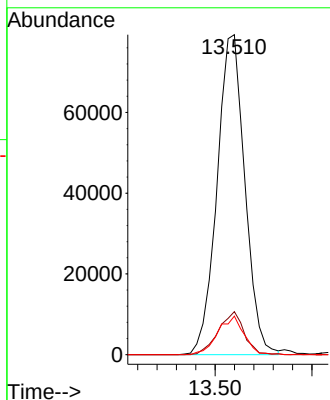
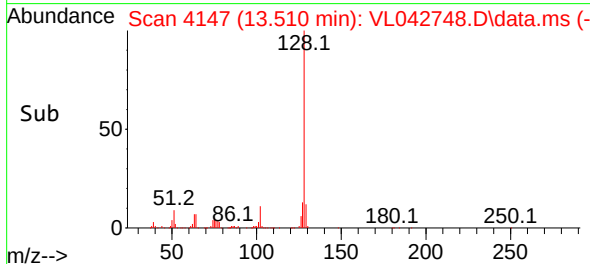
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



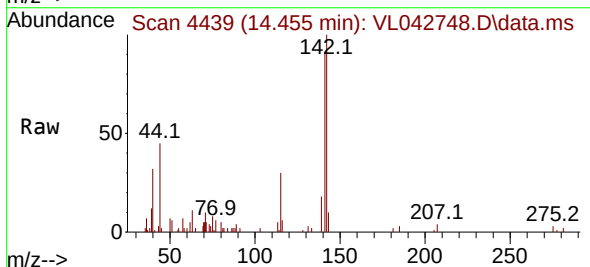
Tgt Ion:128 Resp: 7919
Ion Ratio Lower Upper
128 100
127 13.5 10.5 15.7
129 12.1 8.6 13.0

Manual Integrations
APPROVED

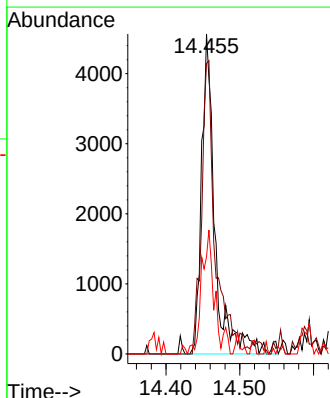
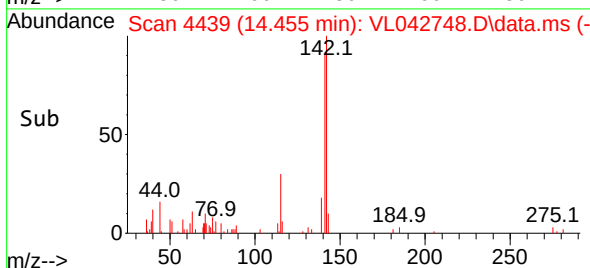
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

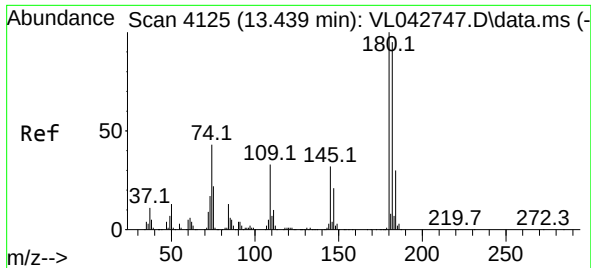


#80
Naphthalene,2-methyl-
Concen: 1.298 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



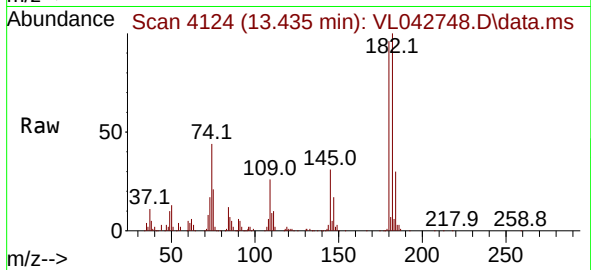
Tgt Ion:142 Resp: 5851
Ion Ratio Lower Upper
142 100
141 94.9 65.8 98.8
115 40.3 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 1.888 ppbv
 RT: 13.435 min Scan# 4125
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

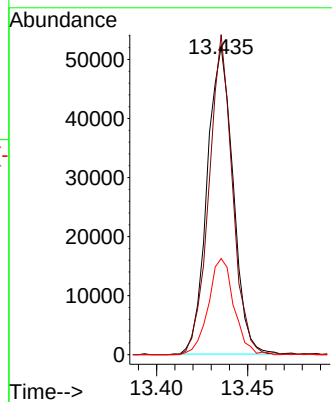
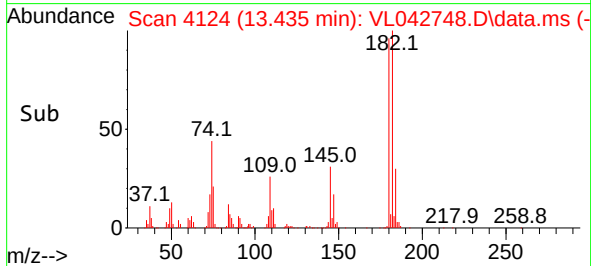
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180	Resp:	5151
Ion Ratio	Lower	Upper
180	100	
182	94.3	76.2 114.2
184	30.9	24.8 37.2

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 : 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_LFri 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

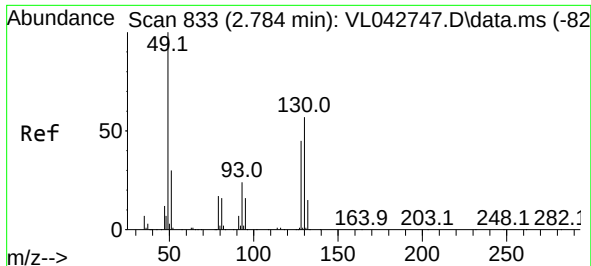
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

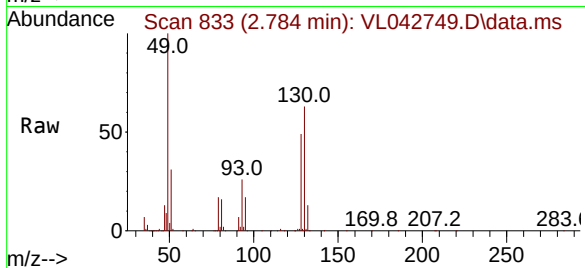
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	21088m	0.958	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv #	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv	99
49) Bromoform	9.474	173	23083	0.973	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	41715m	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

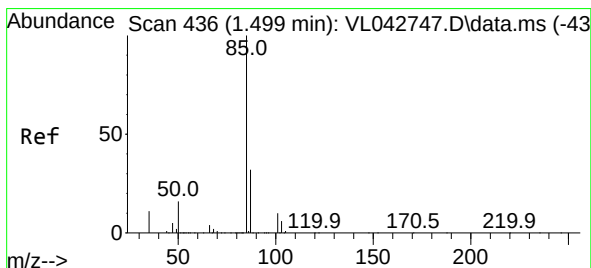
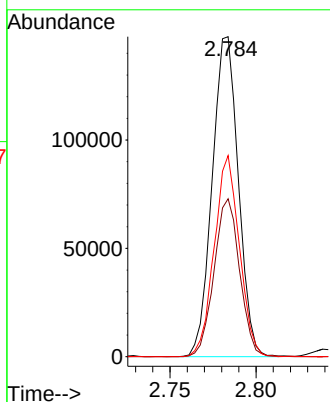
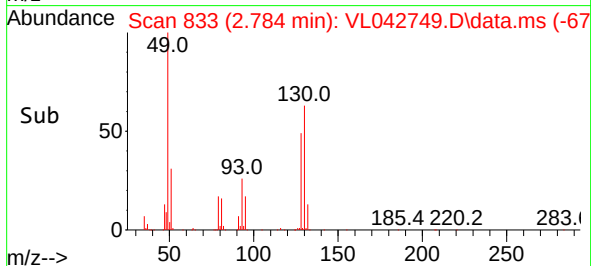
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 49 Resp: 156293
Ion Ratio Lower Upper
49 100
128 48.2 23.6 71.0
130 60.4 30.3 90.8

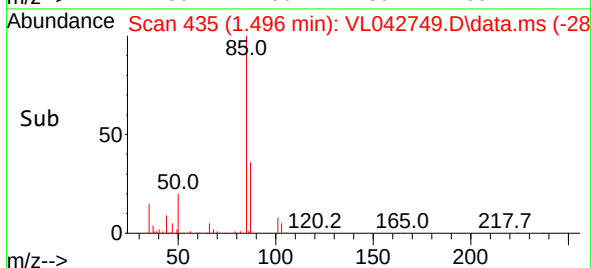
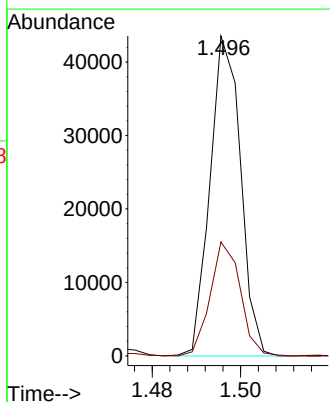
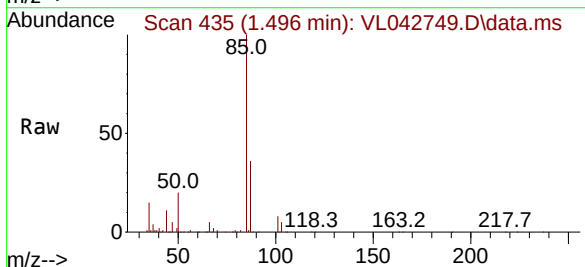
Manual Integrations
APPROVED

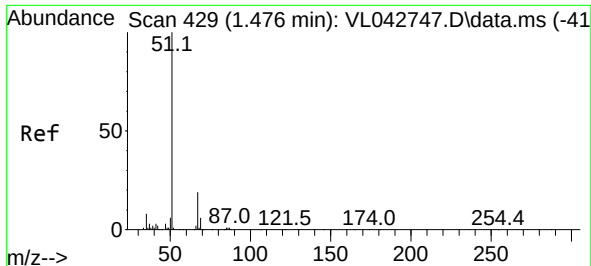
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

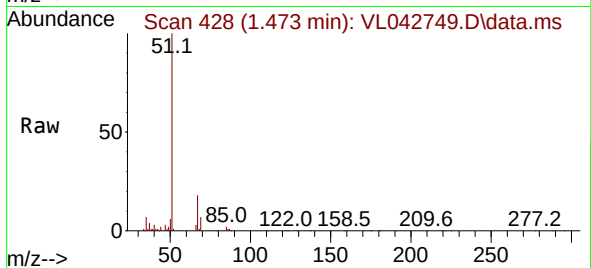
Tgt Ion: 85 Resp: 20935
Ion Ratio Lower Upper
85 100
87 35.6 25.4 38.2





#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

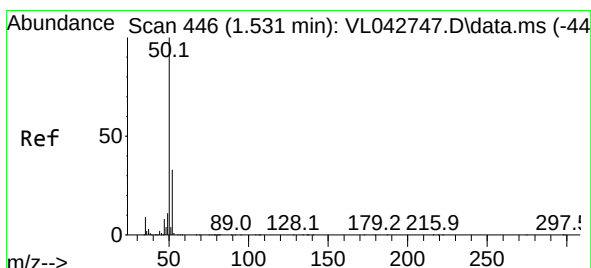
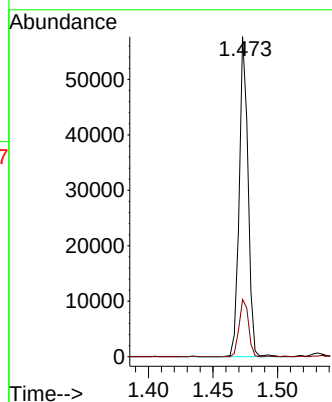
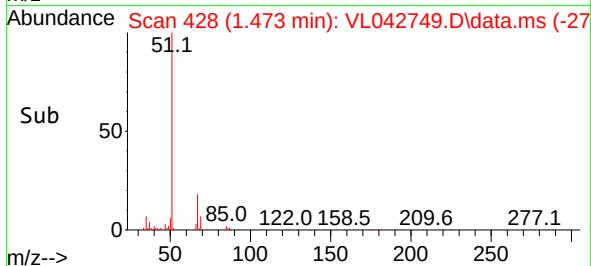
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



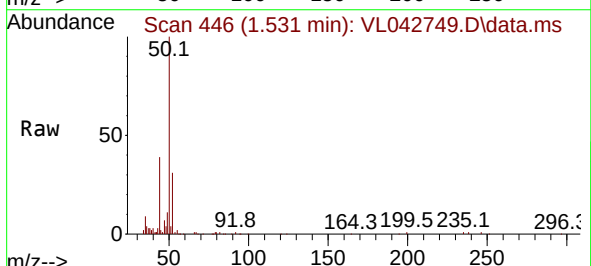
Tgt Ion: 51 Resp: 27459
Ion Ratio Lower Upper
51 100
67 19.3 15.0 22.6

Manual Integrations
APPROVED

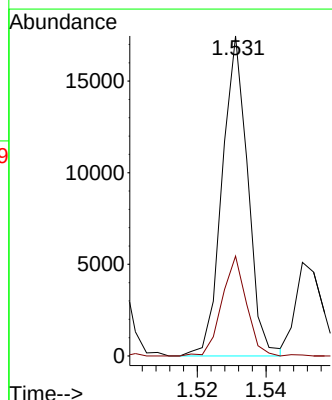
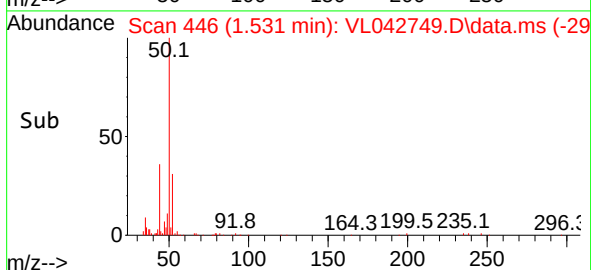
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

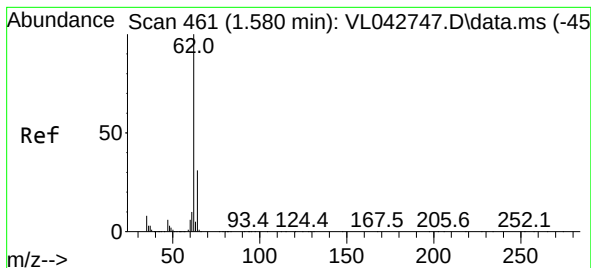


#4
Chloromethane
Concen: 1.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion: 50 Resp: 9047
Ion Ratio Lower Upper
50 100
52 31.2 26.6 40.0





#5

Vinyl Chloride

Concen: 0.900 ppbv

RT: 1.580 min Scan# 461

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 7432

Ion Ratio Lower Upper

62 100

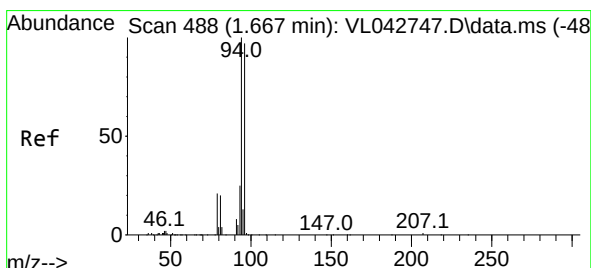
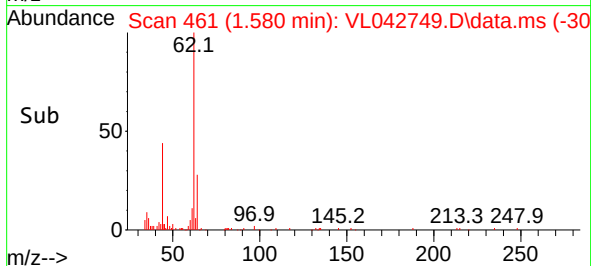
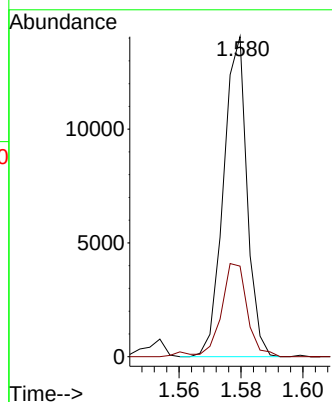
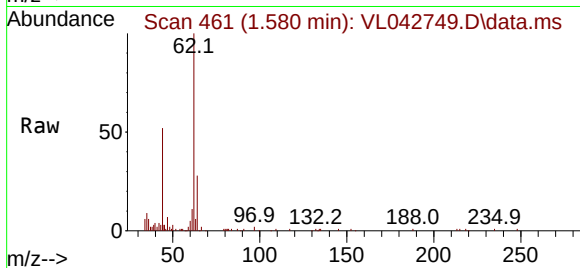
64 28.3 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#6

Bromomethane

Concen: 1.172 ppbv

RT: 1.667 min Scan# 488

Delta R.T. -0.000 min

Lab File: VL042749.D

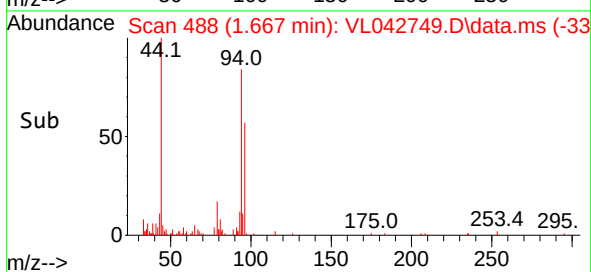
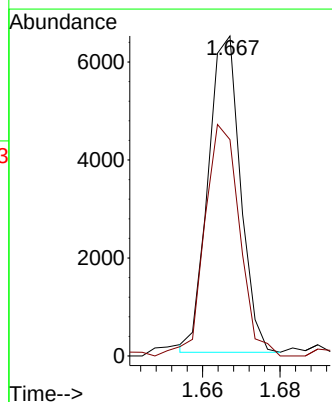
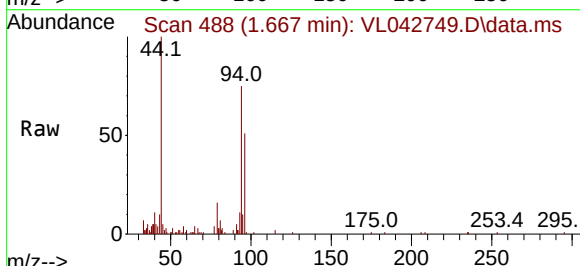
Acq: 23 Jul 2025 10:08

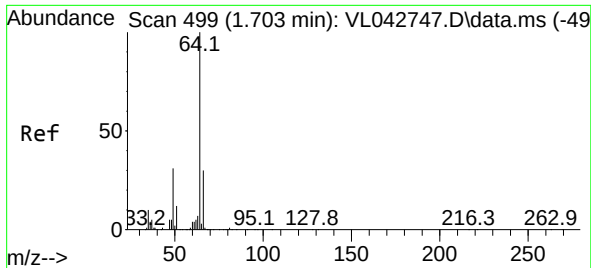
Tgt Ion: 94 Resp: 3743

Ion Ratio Lower Upper

94 100

96 68.4 77.6 116.4#





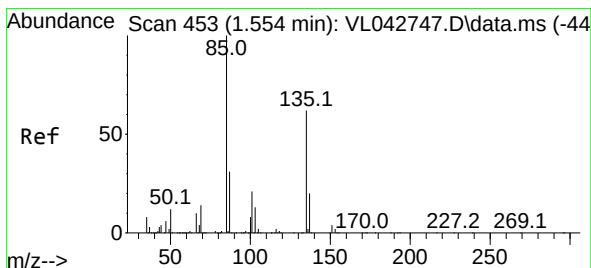
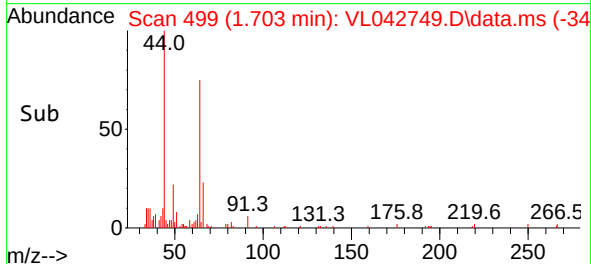
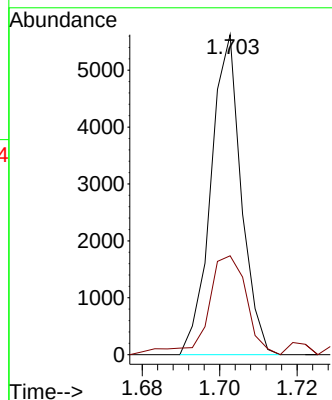
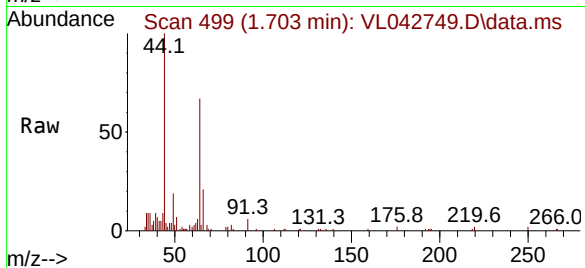
#7
Chloroethane
Concen: 0.959 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 64 Resp: 306
Ion Ratio Lower Upper
64 100
66 30.9 24.1 36.1

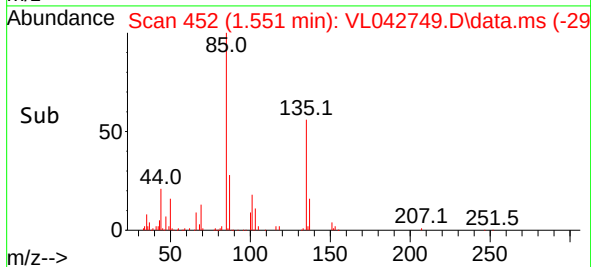
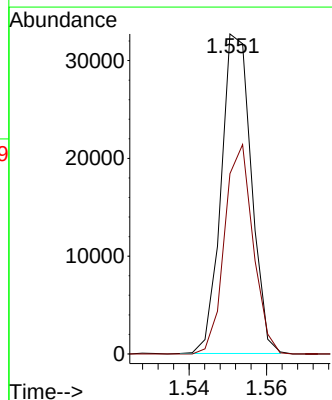
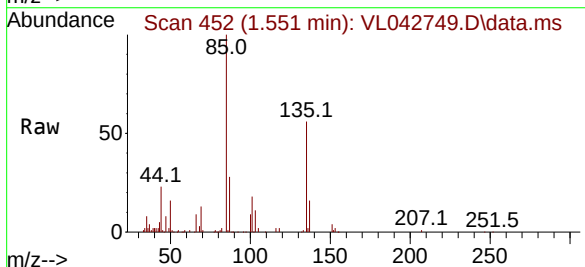
Manual Integrations
APPROVED

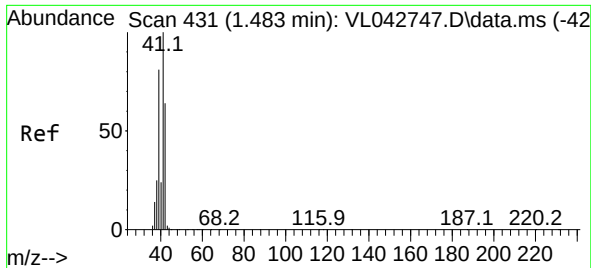
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 1.040 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 17668
Ion Ratio Lower Upper
85 100
135 62.1 50.6 76.0





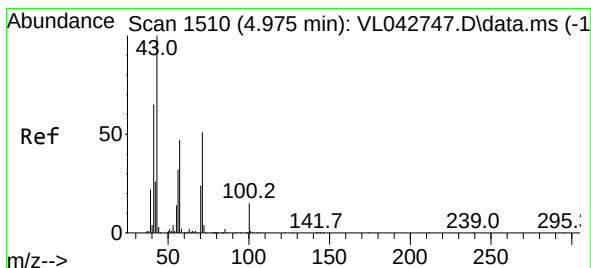
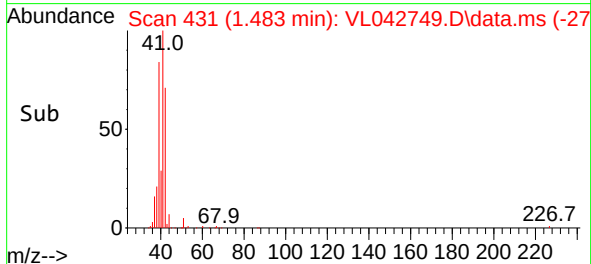
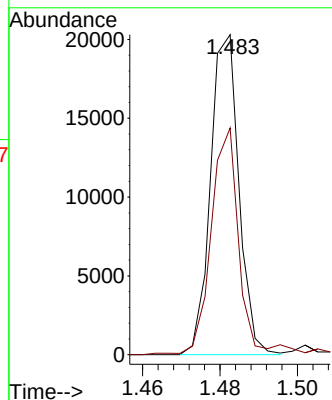
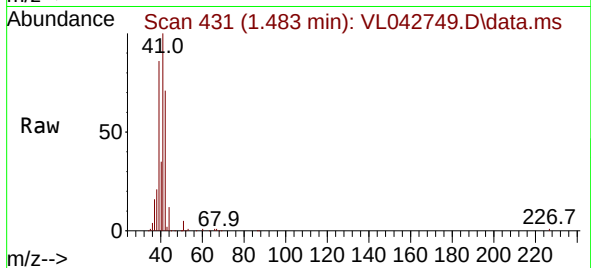
#9
 Propene
 Concen: 1.057 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 10340
 Ion Ratio Lower Upper
 41 100
 42 70.5 53.2 79.8

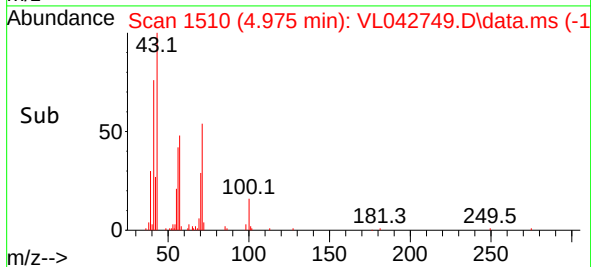
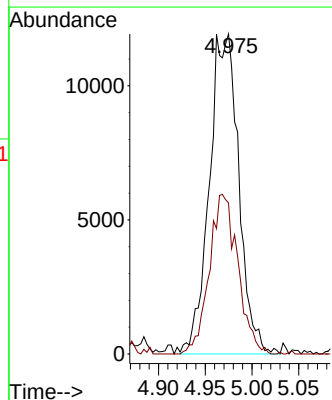
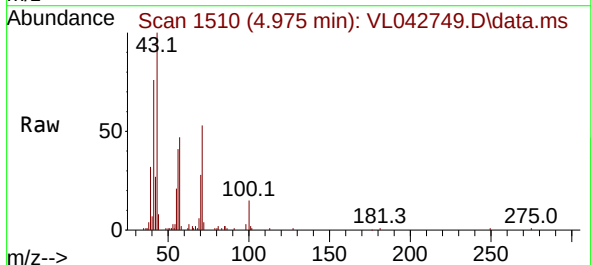
Manual Integrations
 APPROVED

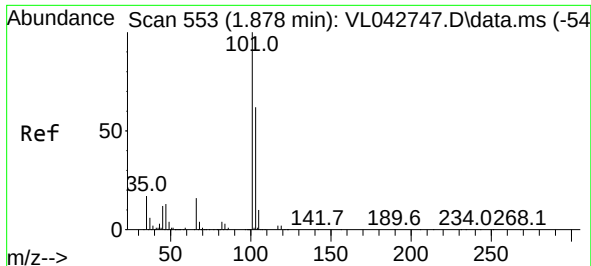
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#10
 Heptane
 Concen: 0.993 ppbv m
 RT: 4.975 min Scan# 1510
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

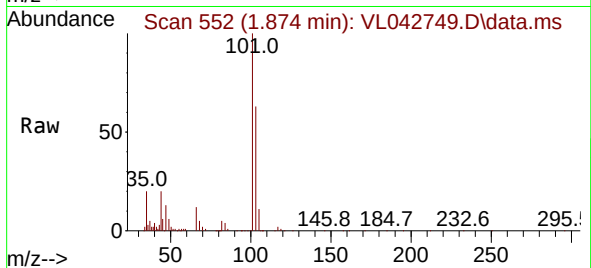
Tgt Ion: 43 Resp: 26137
 Ion Ratio Lower Upper
 43 100
 57 48.5 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 1.053 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

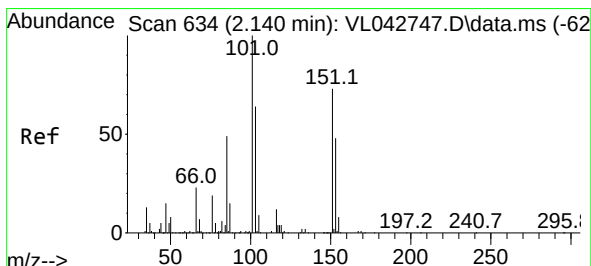
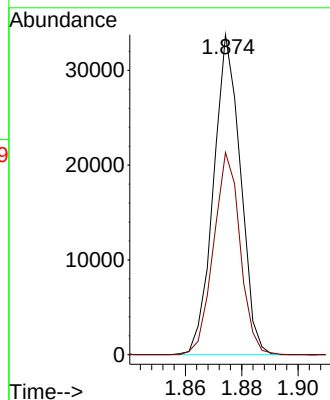
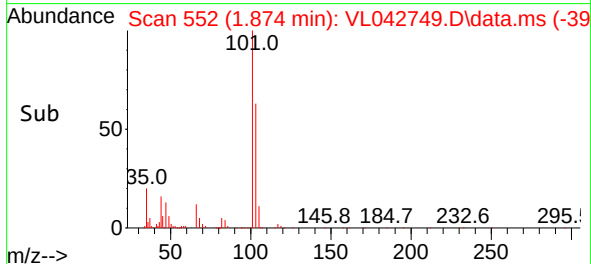
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



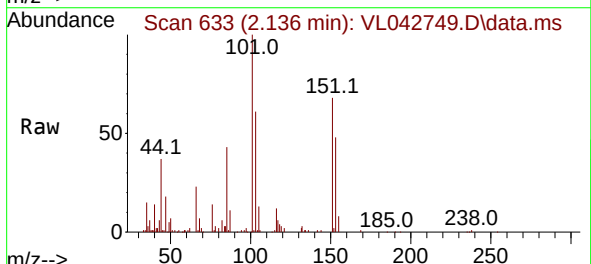
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.2 49.6 74.4

Manual Integrations
 APPROVED

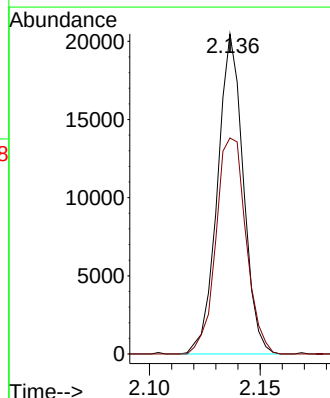
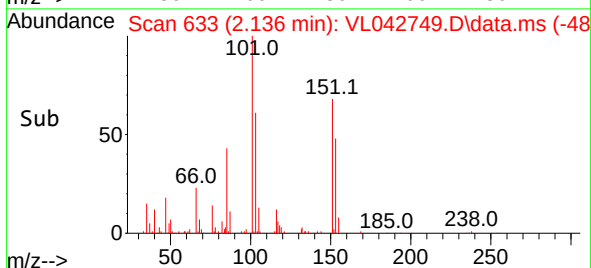
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

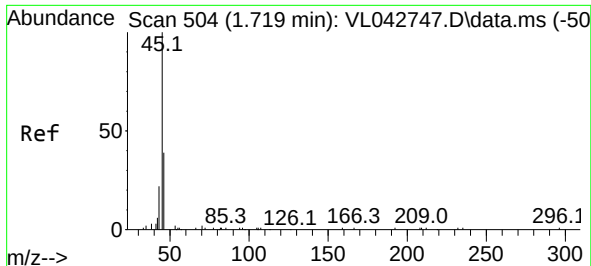


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.026 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



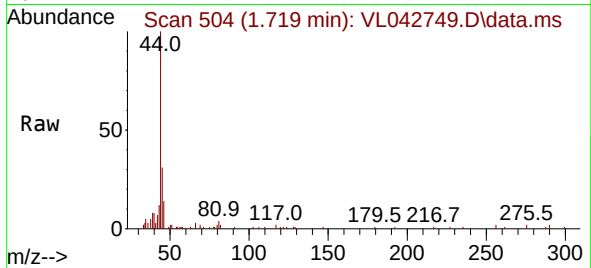
Tgt Ion:101 Resp: 16608
 Ion Ratio Lower Upper
 101 100
 151 78.6 60.5 90.7





#13
Ethanol
Concen: 1.222 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

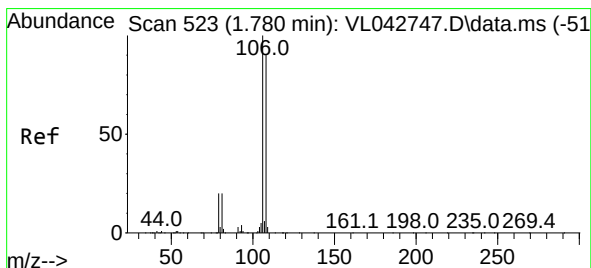
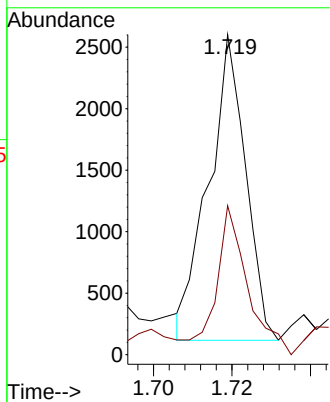
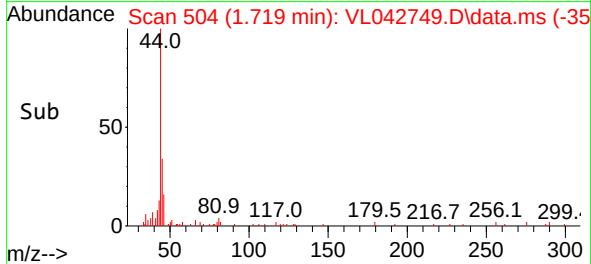
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



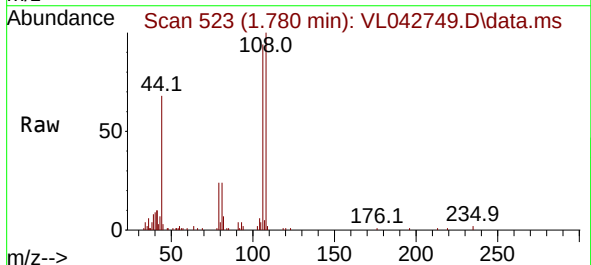
Tgt Ion: 45 Resp: 1620
Ion Ratio Lower Upper
45 100
46 38.4 17.8 71.4

Manual Integrations
APPROVED

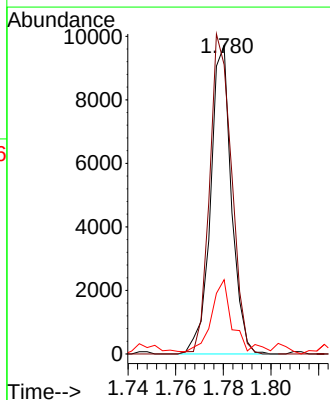
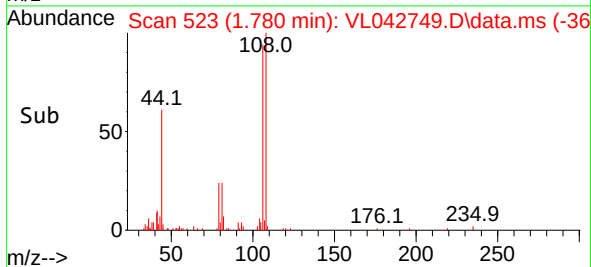
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

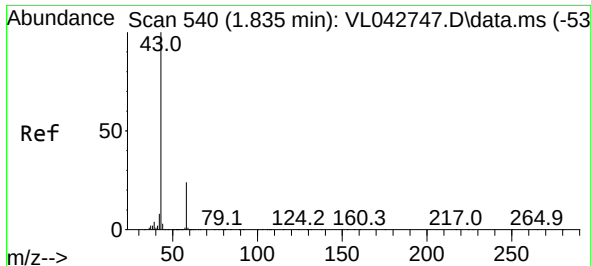


#14
Bromoethene
Concen: 1.034 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



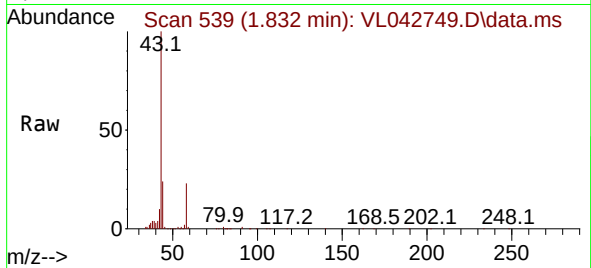
Tgt Ion:108 Resp: 5928
Ion Ratio Lower Upper
108 100
106 108.7 84.7 127.1
79 38.6 17.4 26.2#





#15
Acetone
Concen: 1.071 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

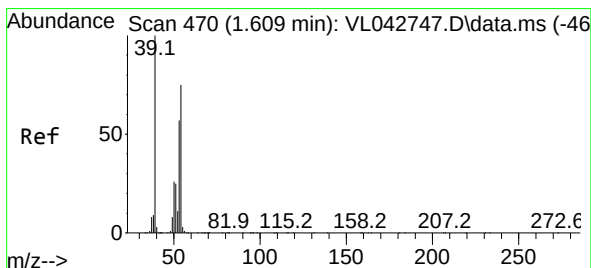
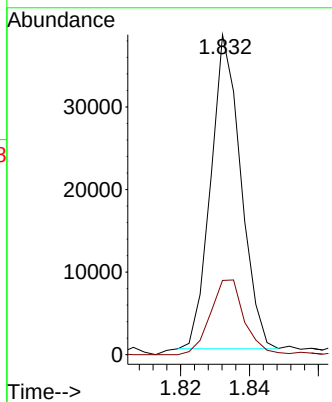
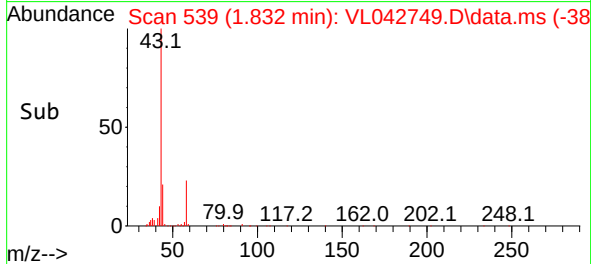
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 23119
Ion Ratio Lower Upper
43 100
58 27.7 19.8 29.8

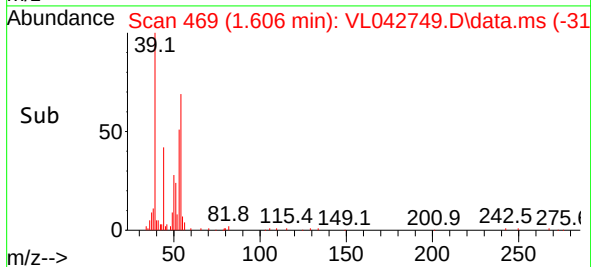
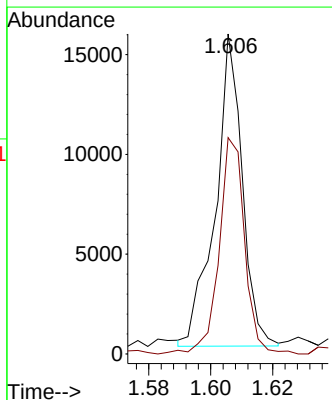
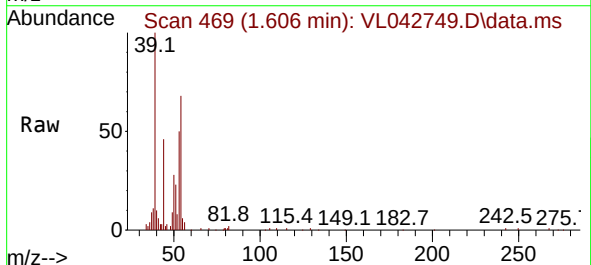
Manual Integrations
APPROVED

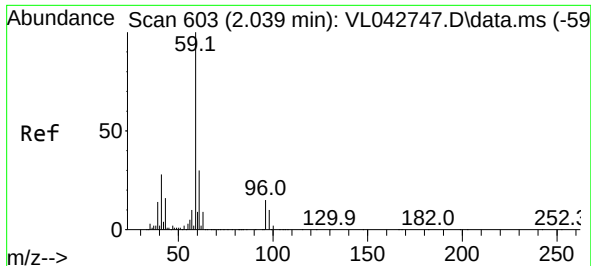
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#16
1,3-Butadiene
Concen: 1.023 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

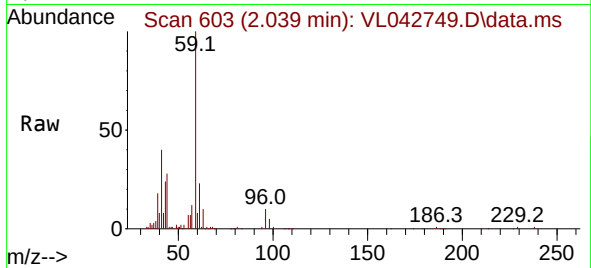
Tgt Ion: 39 Resp: 9416
Ion Ratio Lower Upper
39 100
54 69.7 54.5 81.7





#17
tert-Butyl alcohol
Concen: 1.024 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

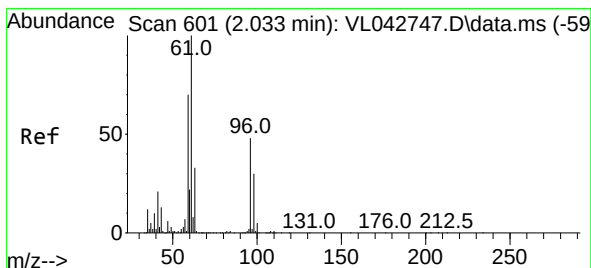
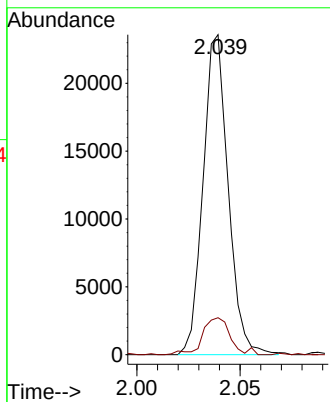
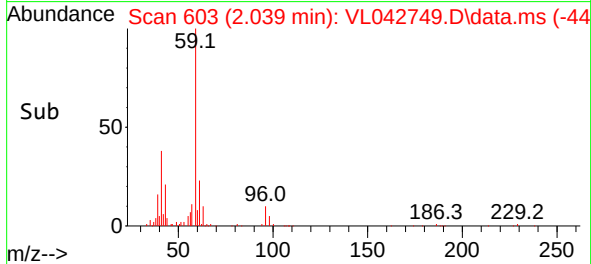
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



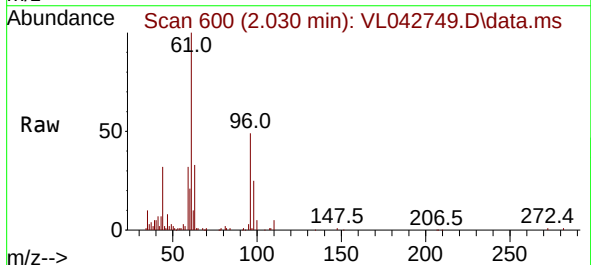
Tgt Ion: 59 Resp: 19920
Ion Ratio Lower Upper
59 100
57 12.9 8.3 12.5

Manual Integrations
APPROVED

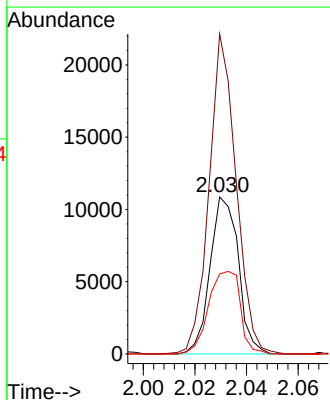
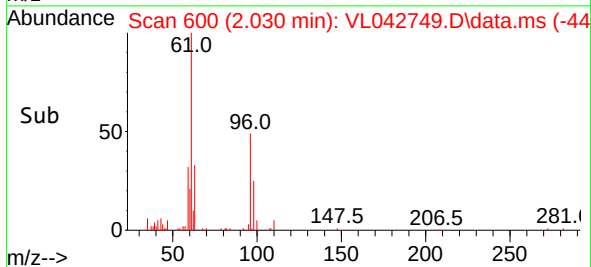
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

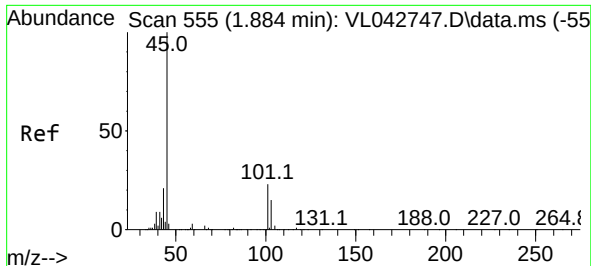


#18
1,1-Dichloroethene
Concen: 1.132 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion: 96 Resp: 8276
Ion Ratio Lower Upper
96 100
61 203.0 165.8 248.6
98 51.0 49.9 74.9





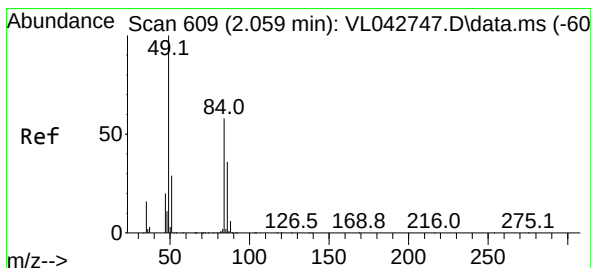
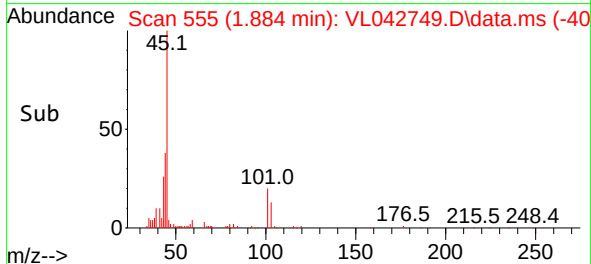
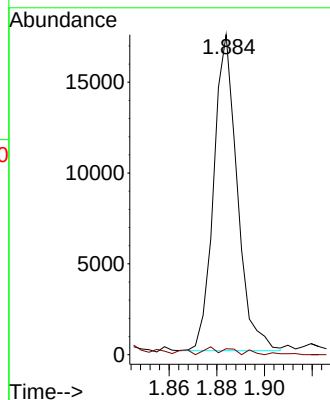
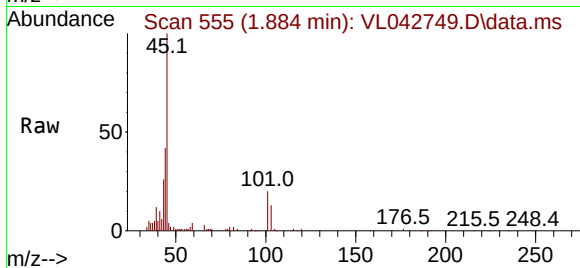
#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 1194
Ion Ratio Lower Upper
45 100
58 2.8 30.0 45.0

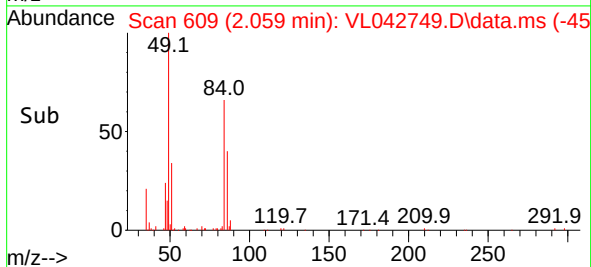
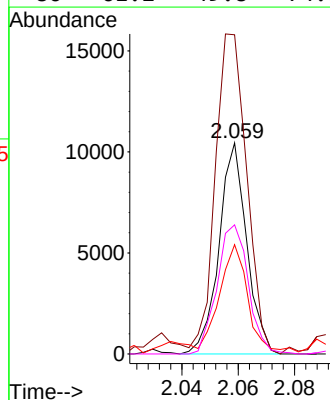
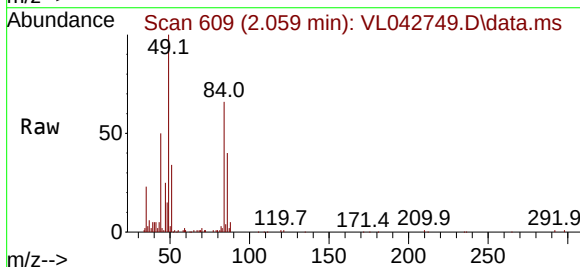
Manual Integrations
APPROVED

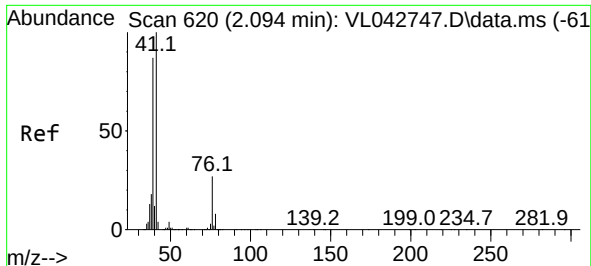
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#20
Methylene Chloride
Concen: 1.052 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

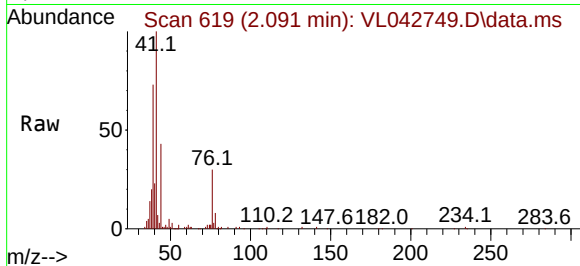
Tgt Ion: 84 Resp: 7153
Ion Ratio Lower Upper
84 100
49 151.3 138.6 208.0
51 50.2 40.6 61.0
86 61.2 49.8 74.8





#21
 Allyl Chloride
 Concen: 1.006 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

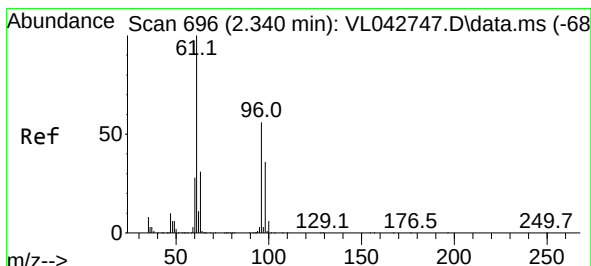
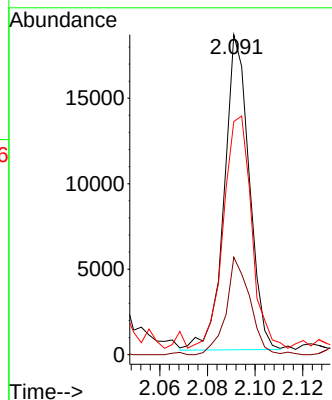
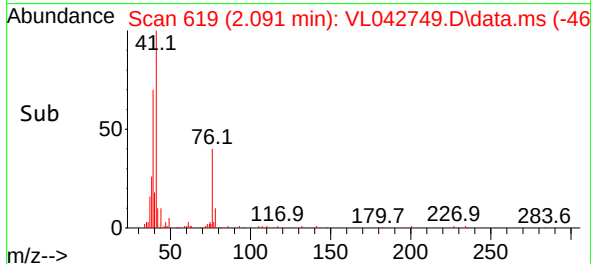
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



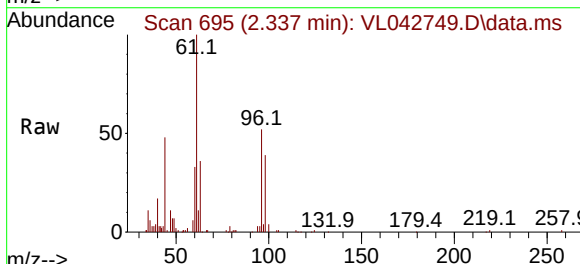
Tgt Ion: 41 Resp: 1338
 Ion Ratio Lower Upper
 41 100
 76 30.1 21.1 31.7
 39 93.4 68.3 102.5

Manual Integrations
 APPROVED

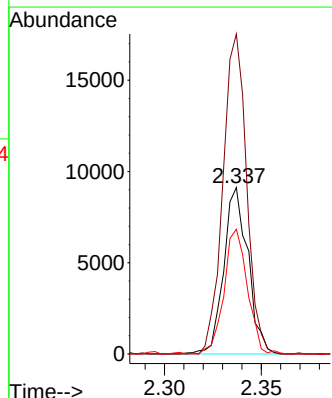
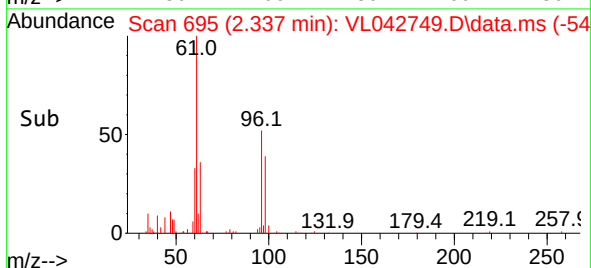
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

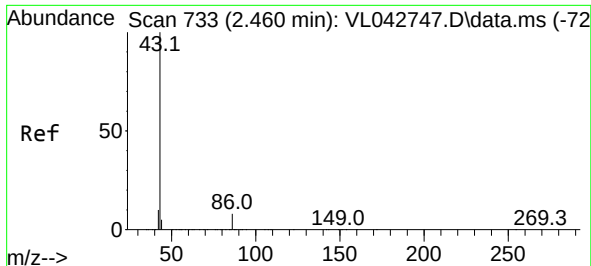


#22
 trans-1,2-Dichloroethene
 Concen: 1.007 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



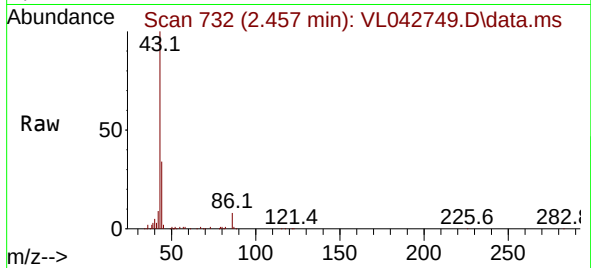
Tgt Ion: 96 Resp: 7909
 Ion Ratio Lower Upper
 96 100
 61 192.3 142.3 213.5
 98 74.2 50.6 76.0





#23
 Vinyl Acetate
 Concen: 0.897 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

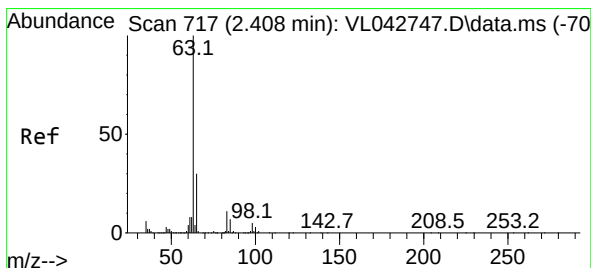
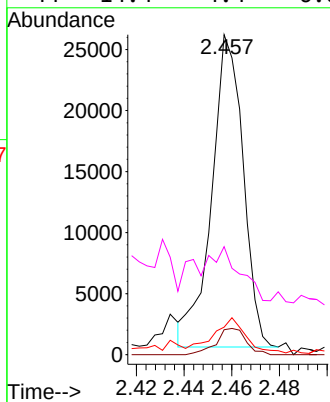
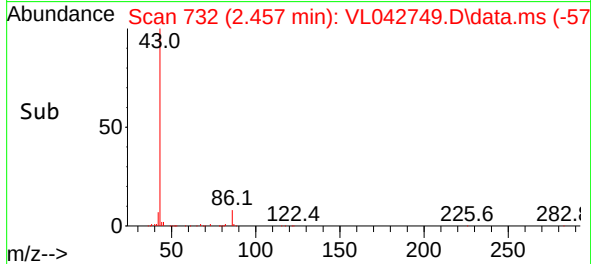


Tgt Ion: 43 Resp: 23472

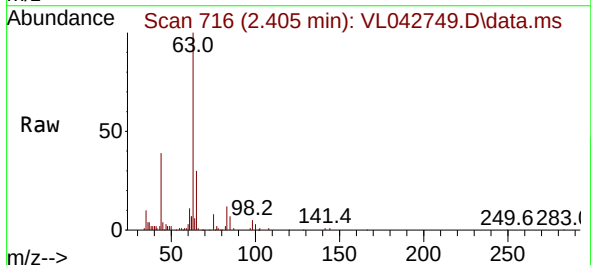
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	7.5	7.8	11.8
44	14.4	4.4	6.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

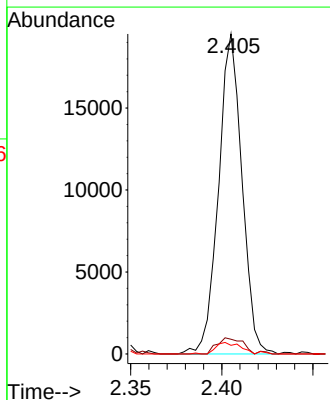
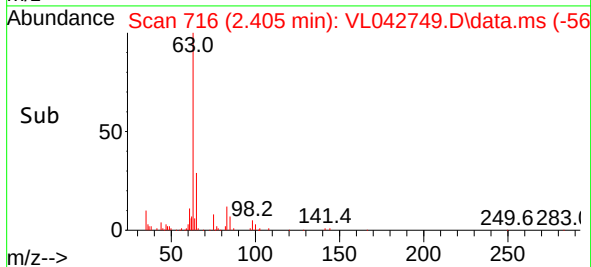


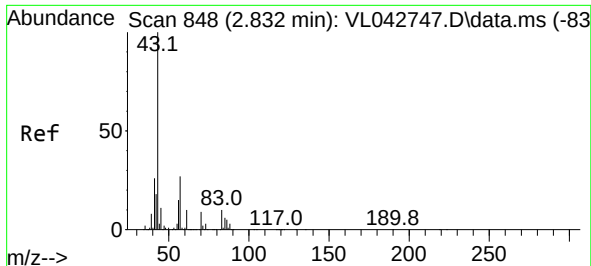
#24
 1,1-Dichloroethane
 Concen: 1.081 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



Tgt Ion: 63 Resp: 17459

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.5	7.4
100	2.7	1.6	4.8





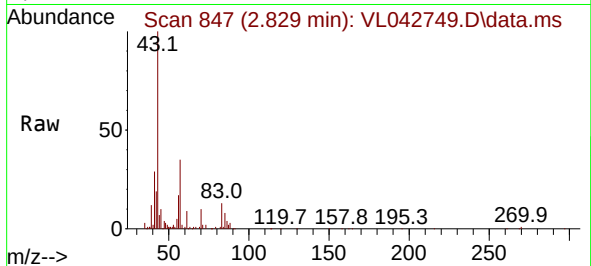
#25
Ethyl Acetate
Concen: 1.021 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

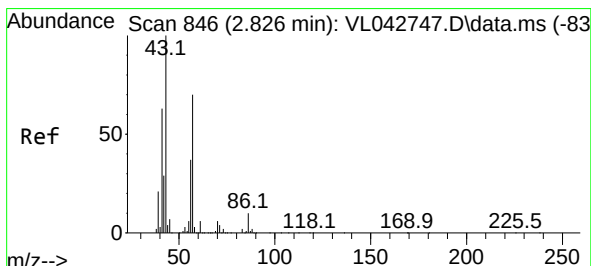
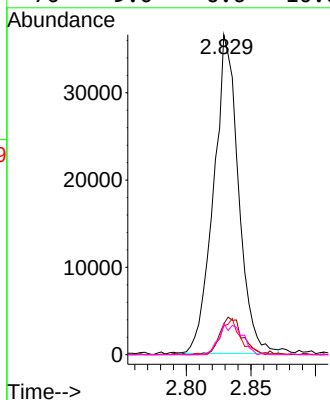
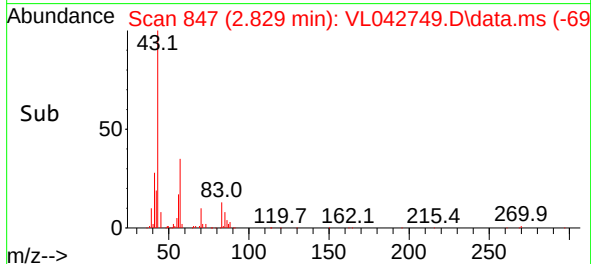


Tgt Ion: 43 Resp: 48790
Ion Ratio Lower Upper
43 100
45 11.3 7.8 11.6
61 9.3 6.7 10.1
70 9.0 6.6 10.0

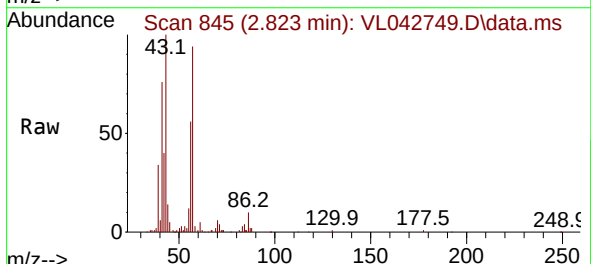
Manual Integrations

APPROVED

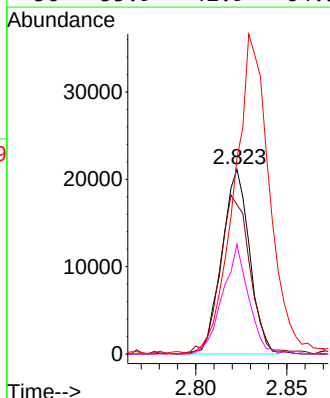
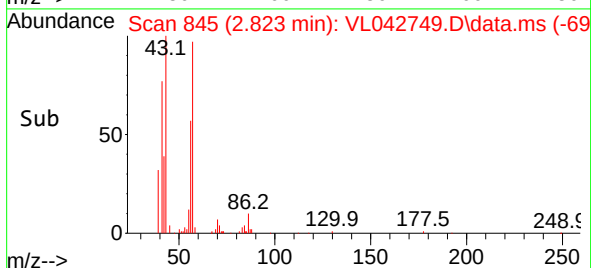
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

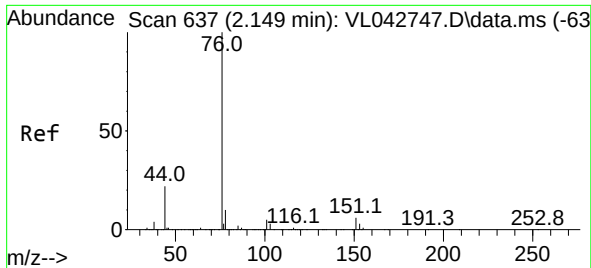


#26
Hexane
Concen: 1.063 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion: 57 Resp: 22279
Ion Ratio Lower Upper
57 100
41 98.5 75.4 113.2
43 230.7 185.0 277.6
56 55.9 42.9 64.3





#27

Carbon Disulfide

Concen: 1.031 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

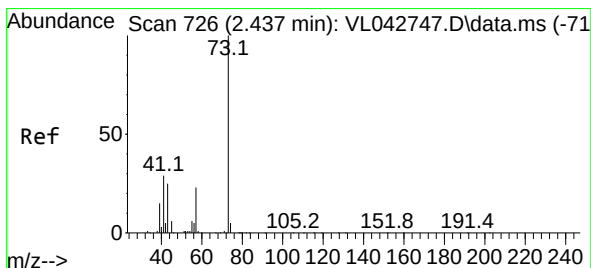
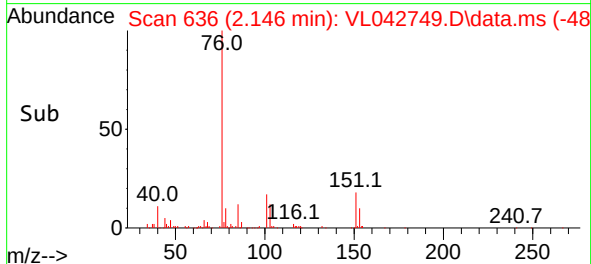
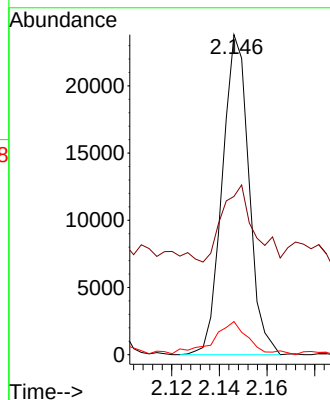
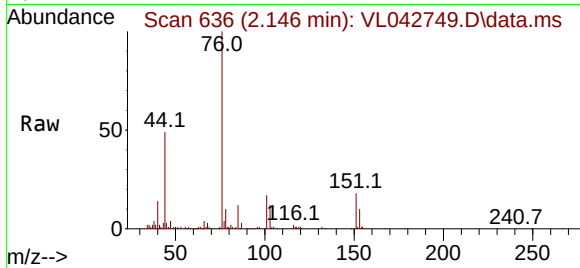
VSTDICC001

Tgt Ion: 76	Resp: 1848
Ion Ratio	Lower Upper
76	100
44	115.6 19.3 28.9
78	14.9 9.9 14.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28

Methyl tert-Butyl Ether

Concen: 0.968 ppbv

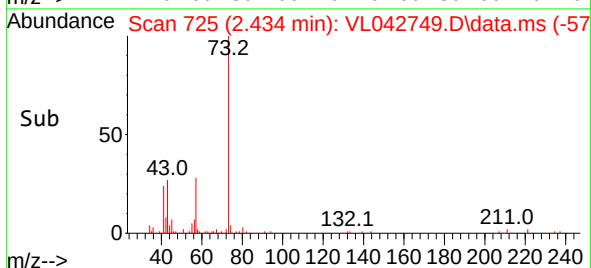
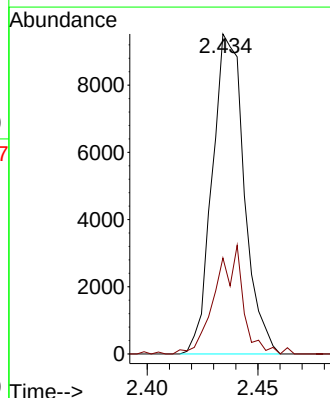
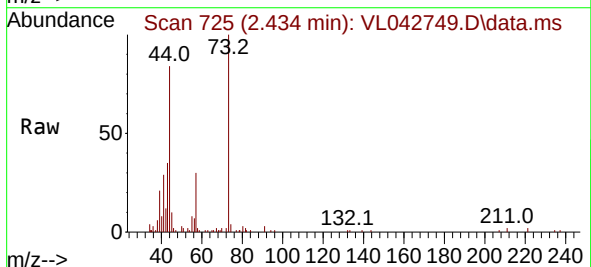
RT: 2.434 min Scan# 725

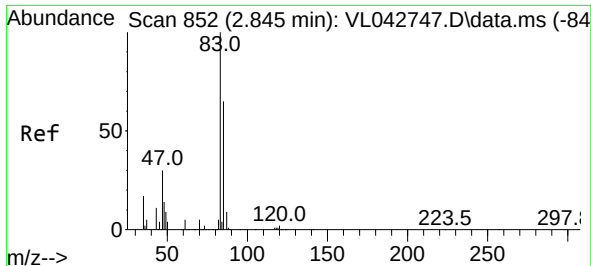
Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 73	Resp: 9587
Ion Ratio	Lower Upper
73	100
57	29.7 19.8 29.8





#29

Chloroform

Concen: 1.015 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 32880

Ion Ratio Lower Upper

83 100

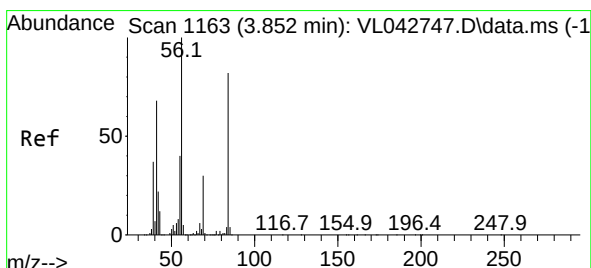
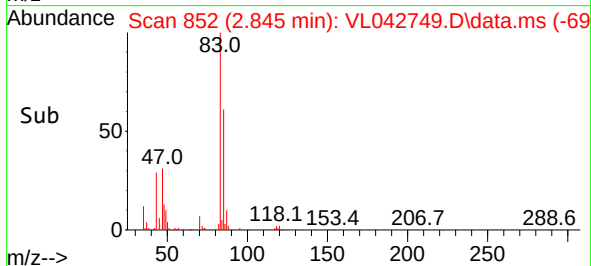
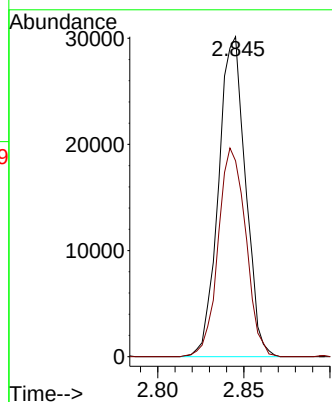
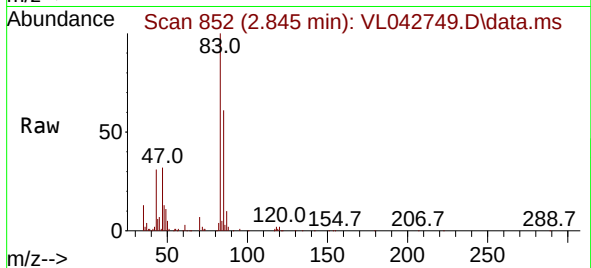
85 61.2 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 1.003 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

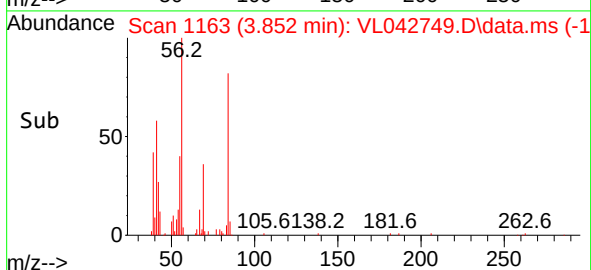
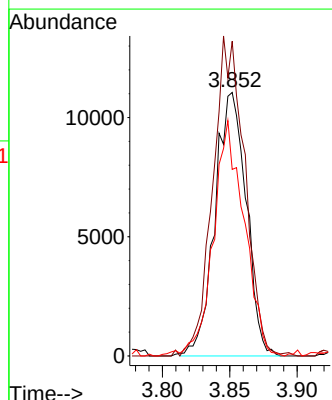
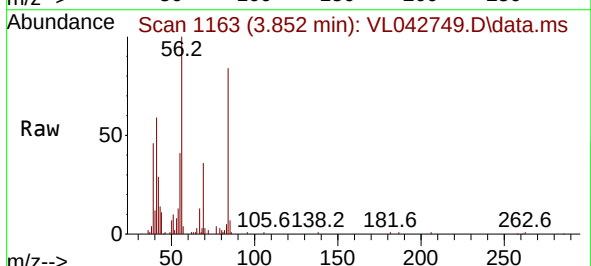
Tgt Ion: 84 Resp: 17824

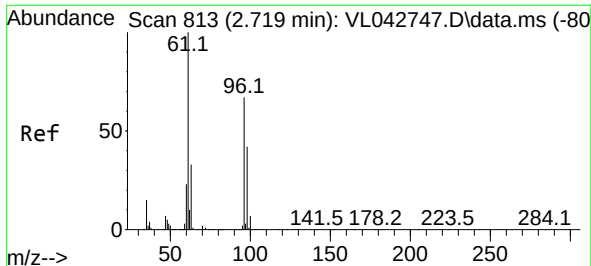
Ion Ratio Lower Upper

84 100

56 124.3 97.5 146.3

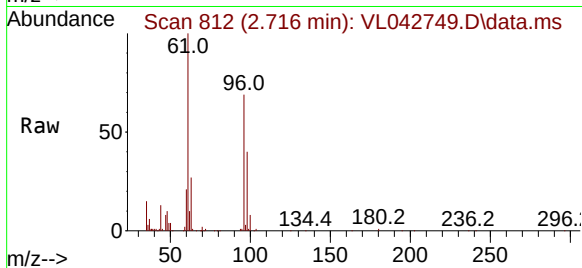
41 88.5 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 1.021 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

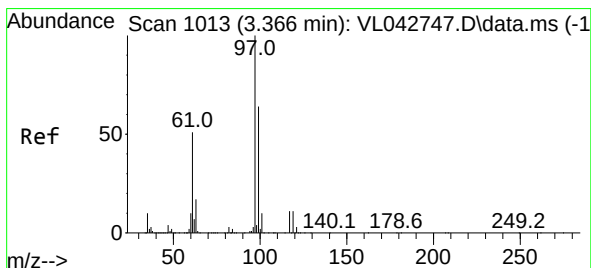
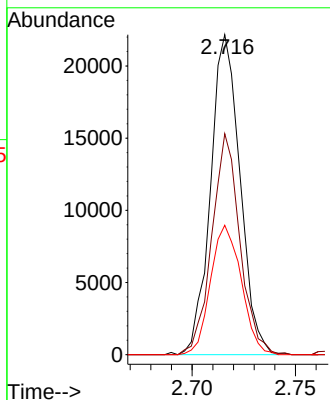
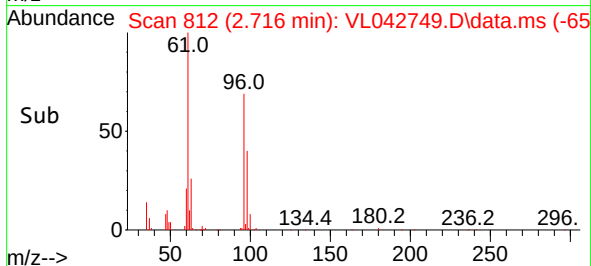
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



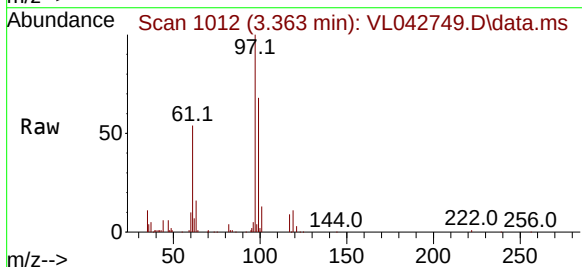
Tgt Ion: 61 Resp: 21979
 Ion Ratio Lower Upper
 61 100
 96 69.0 53.5 80.3
 98 40.5 33.6 50.4

Manual Integrations
 APPROVED

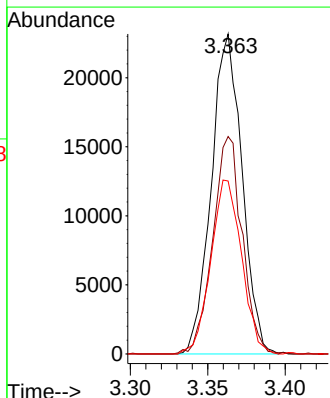
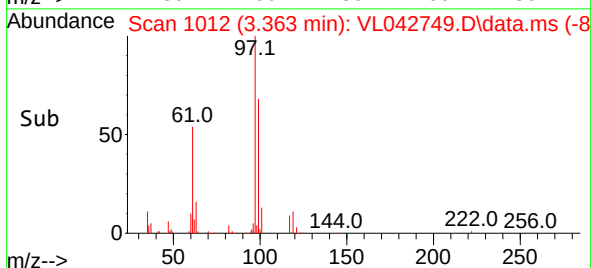
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

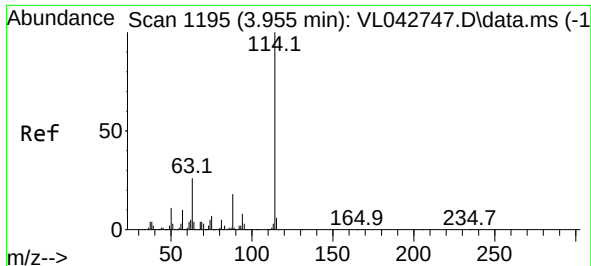


#32
 1,1,1-Trichloroethane
 Concen: 0.949 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



Tgt Ion: 97 Resp: 32003
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.6
 61 54.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

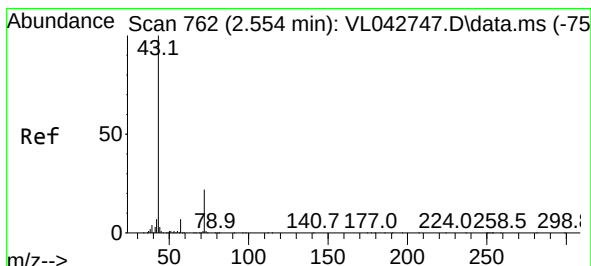
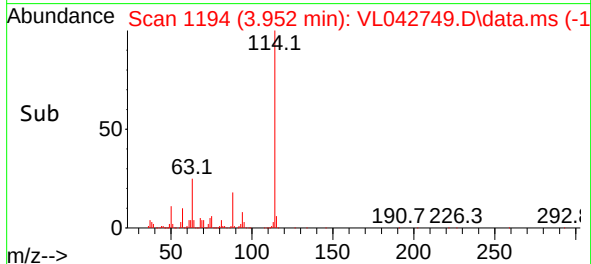
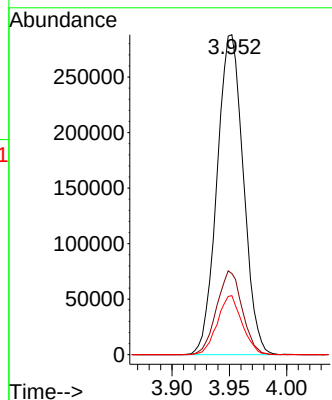
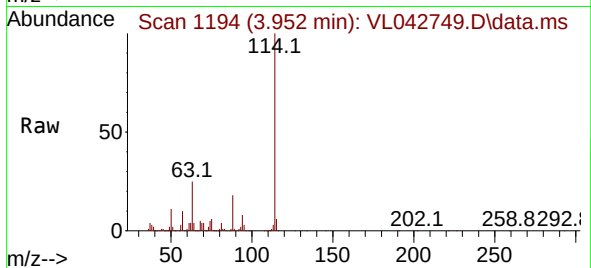
VSTDICC001

Tgt Ion:114 Resp: 459770
 Ion Ratio Lower Upper
 114 100
 63 25.5 20.5 30.7
 88 17.4 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#34

2-Butanone

Concen: 1.007 ppbv

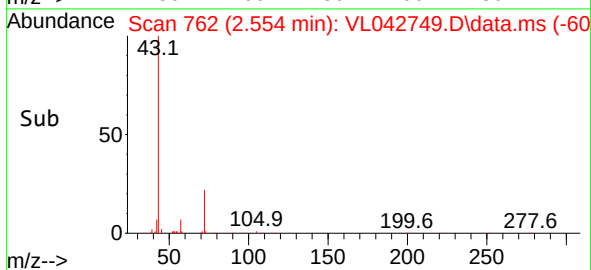
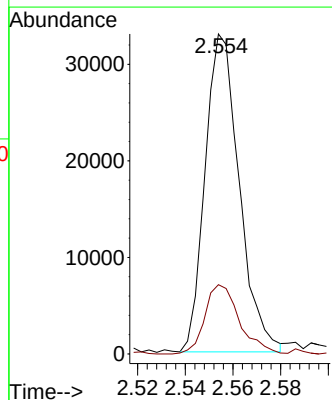
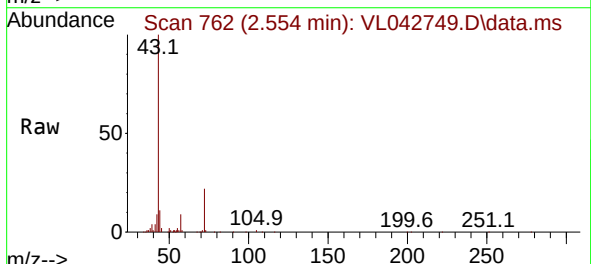
RT: 2.554 min Scan# 762

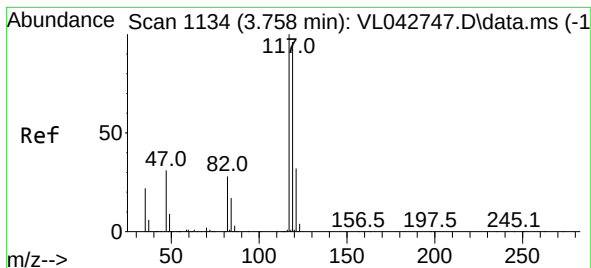
Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 32783
 Ion Ratio Lower Upper
 43 100
 72 22.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.954 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

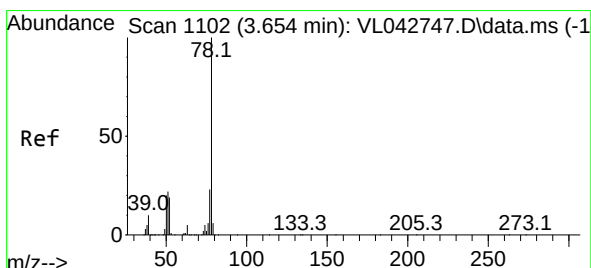
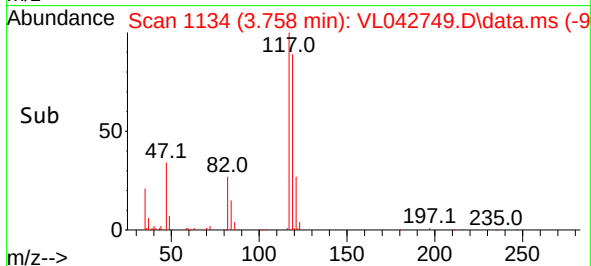
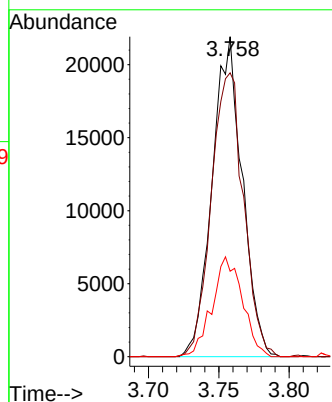
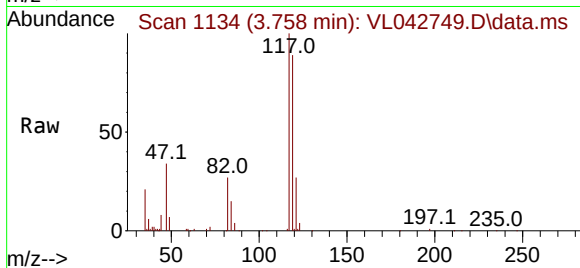
VSTDIC001

Tgt Ion:	117	Resp:	32610
Ion	Ratio	Lower	Upper
117	100		
119	88.7	77.1	115.7
121	26.7	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36

Benzene

Concen: 1.024 ppbv

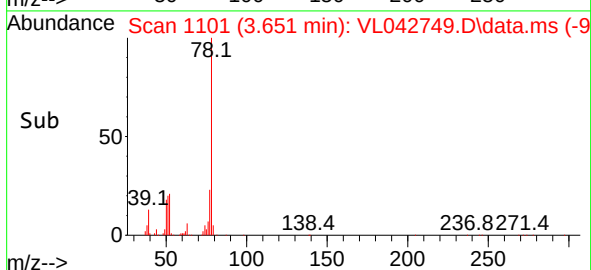
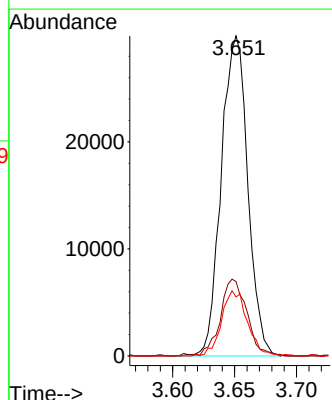
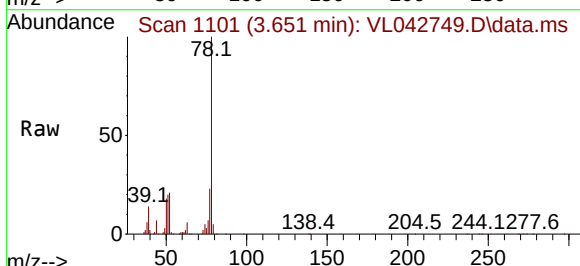
RT: 3.651 min Scan# 1101

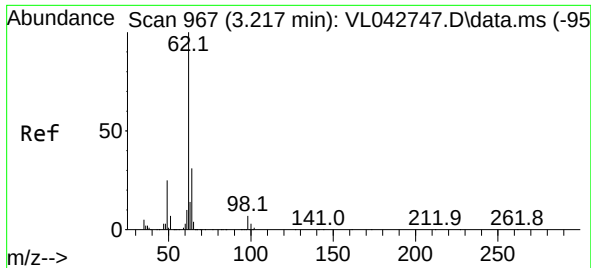
Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:	78	Resp:	44638
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.5	27.7
50	18.4	16.2	24.2





#37

1,2-Dichloroethane

Concen: 1.025 ppbv

RT: 3.211 min Scan# 90

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 2690

Ion Ratio Lower Upper

62 100

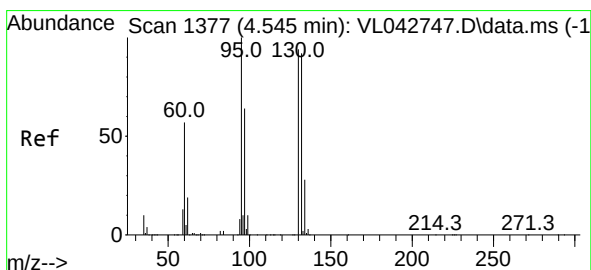
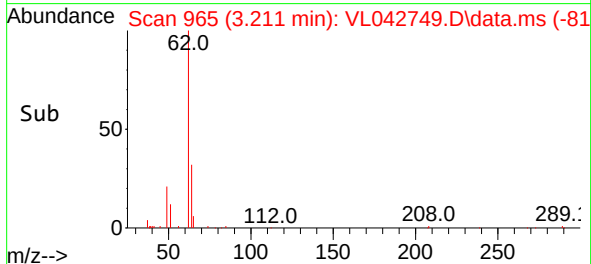
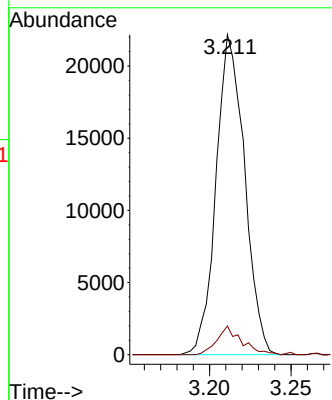
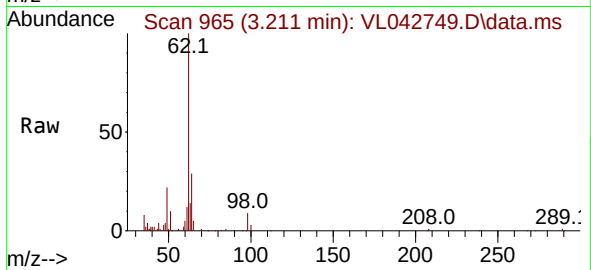
98 8.0 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#38

Trichloroethene

Concen: 1.005 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:130 Resp: 21122

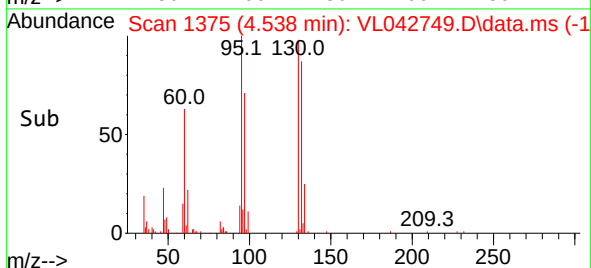
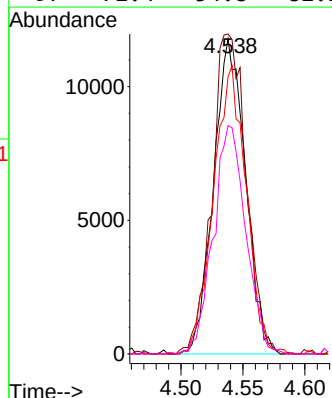
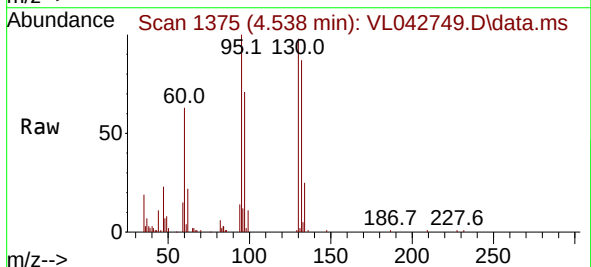
Ion Ratio Lower Upper

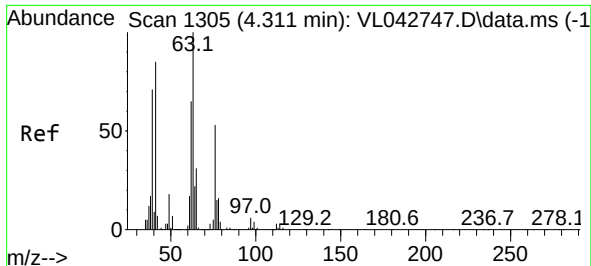
130 100

95 101.6 85.4 128.2

132 87.5 78.2 117.2

97 72.4 54.8 82.2





#39

1,2-Dichloropropane

Concen: 1.033 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

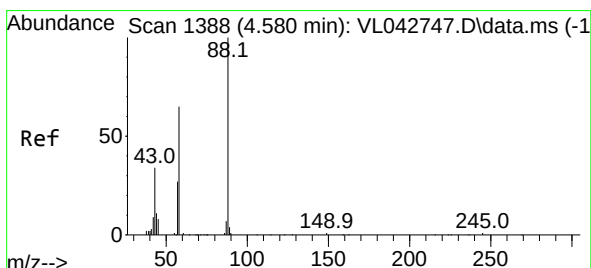
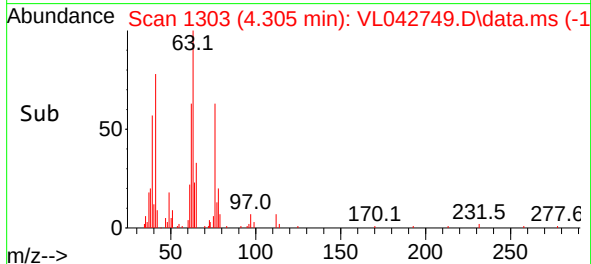
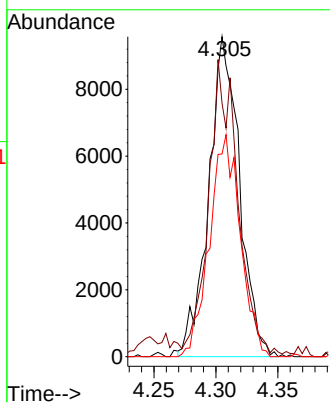
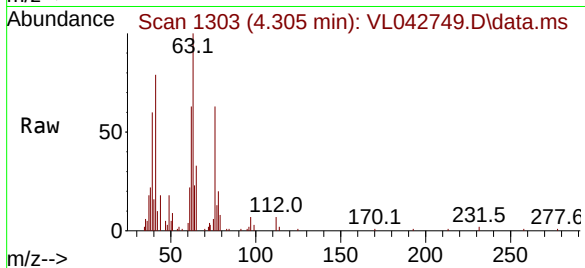
Tgt Ion: 63 Resp: 1662

Ion	Ratio	Lower	Upper
63	100		
41	77.8	68.2	102.4
62	63.3	52.0	78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 1.030 ppbv m

RT: 4.587 min Scan# 1390

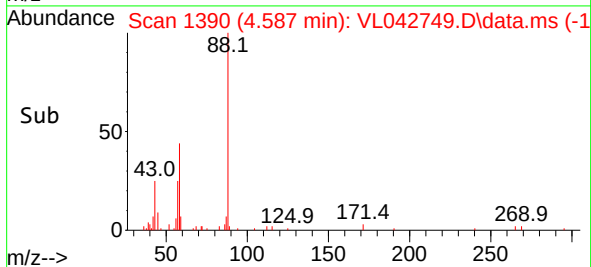
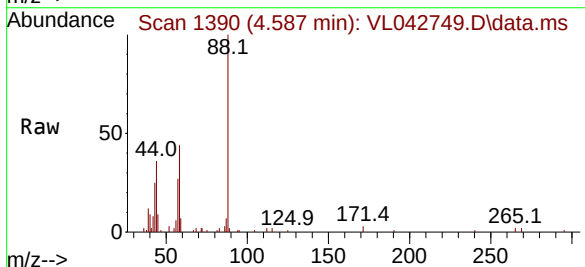
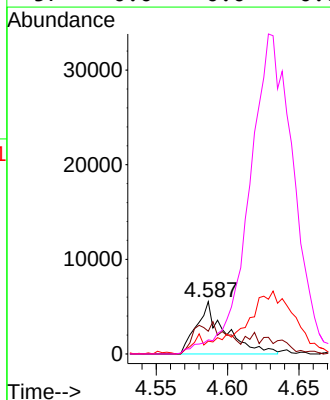
Delta R.T. 0.006 min

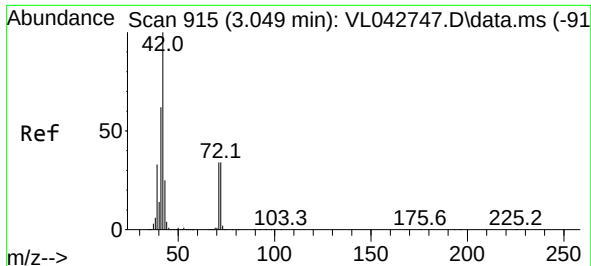
Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 88 Resp: 7811

Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.984 ppbv

RT: 3.056 min Scan# 915

Delta R.T. 0.006 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

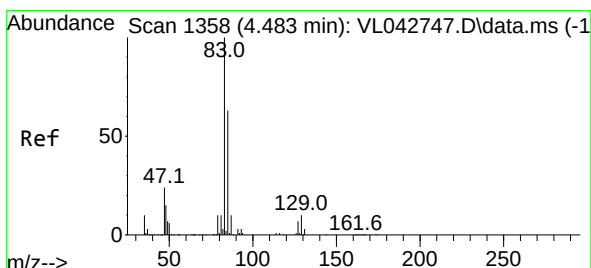
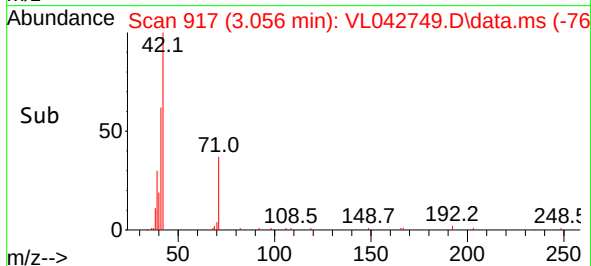
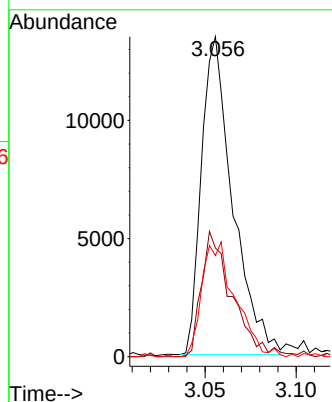
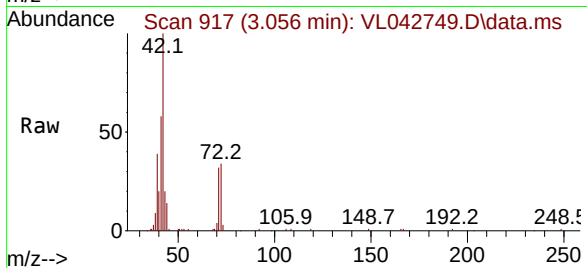
Tgt Ion: 42 Resp: 1609

Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.9	46.3
71	38.6	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#42

Bromodichloromethane

Concen: 1.023 ppbv m

RT: 4.480 min Scan# 1357

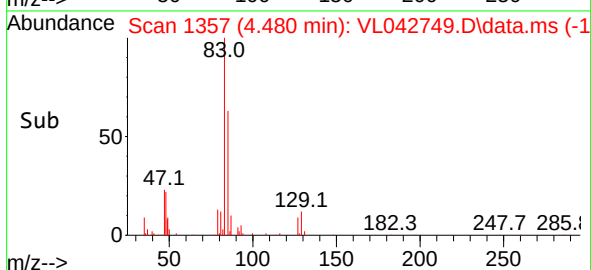
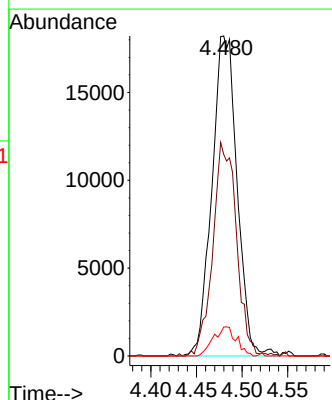
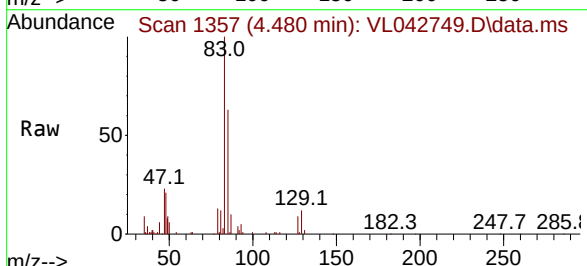
Delta R.T. -0.003 min

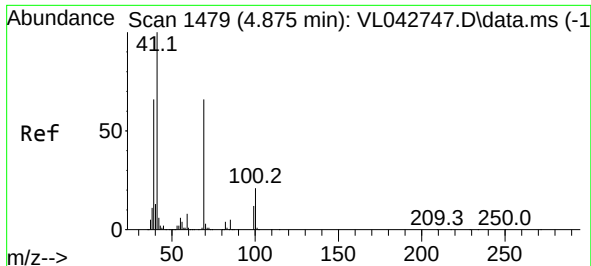
Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 83 Resp: 34995

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.2	75.4
127	9.1	5.4	8.2





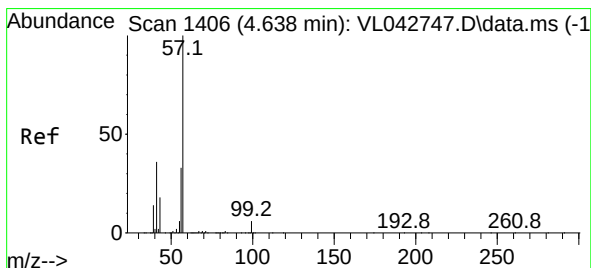
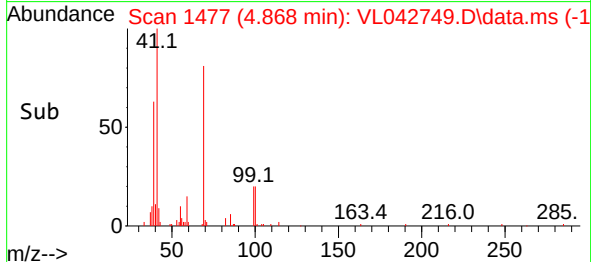
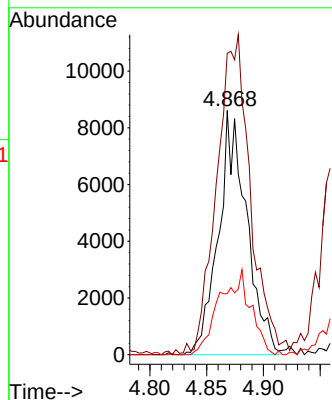
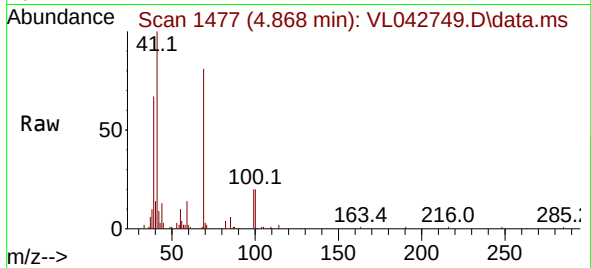
#43
Methyl Methacrylate
Concen: 0.961 ppbv
RT: 4.868 min Scan# 1479
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 1488
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5
100 0.0 28.6 42.8

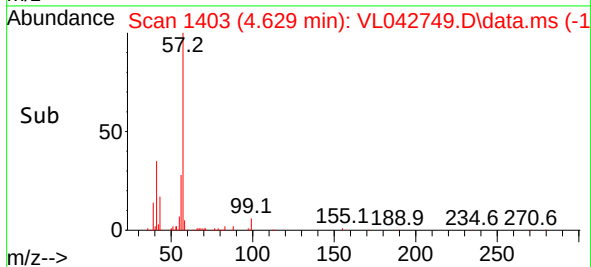
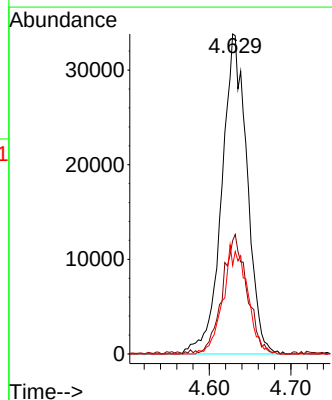
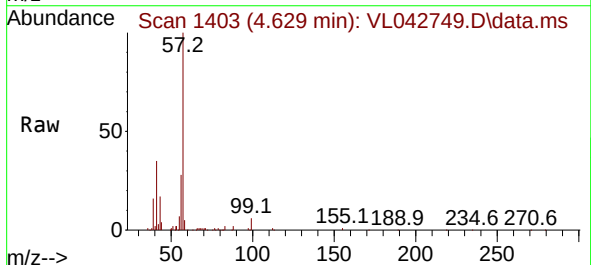
Manual Integrations
APPROVED

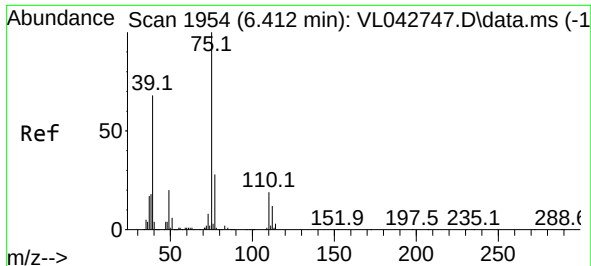
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#44
2,2,4-Trimethylpentane
Concen: 1.026 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 72865
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.5 25.8 38.6





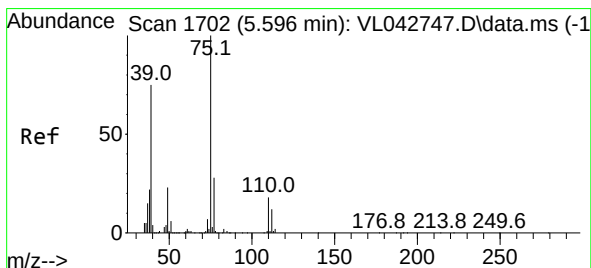
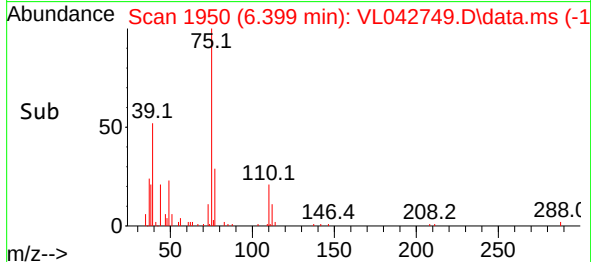
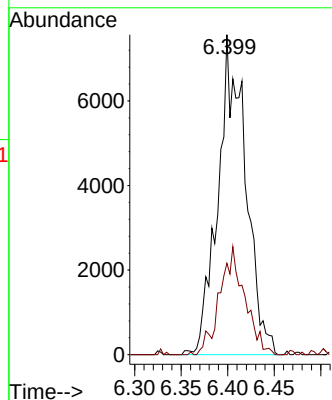
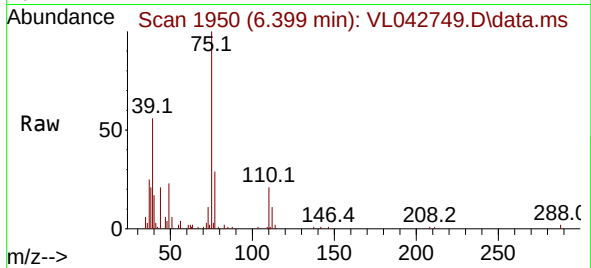
#45
t-1,3-Dichloropropene
Concen: 0.900 ppbv m
RT: 6.399 min Scan# 1954
Delta R.T. -0.013 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 75 Resp: 1564
Ion Ratio Lower Upper
75 100
77 28.5 22.4 33.6

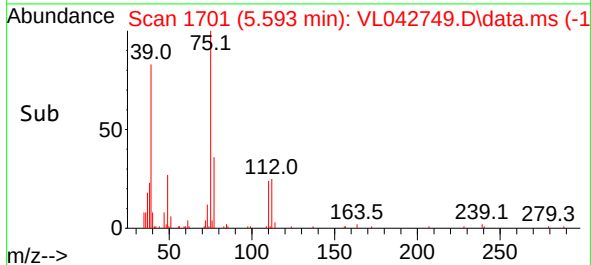
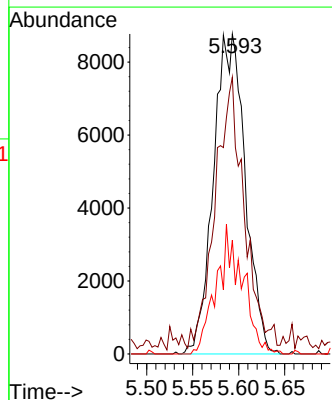
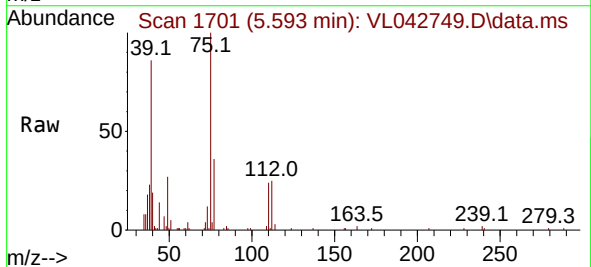
Manual Integrations
APPROVED

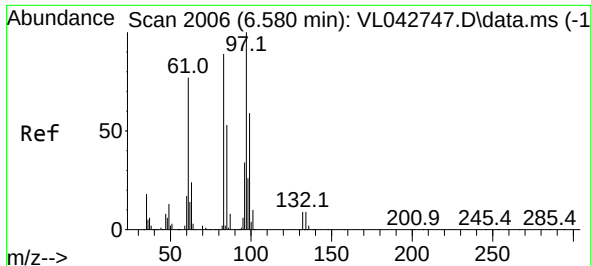
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 0.958 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 21088
Ion Ratio Lower Upper
75 100
39 86.5 60.2 90.2
77 35.6 22.6 34.0#





#47

1,1,2-Trichloroethane

Concen: 1.029 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 17640

Ion Ratio Lower Upper

97 100

83 60.2 71.1 106.7

85 46.8 43.0 64.4

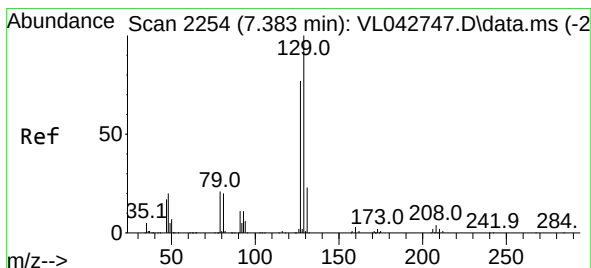
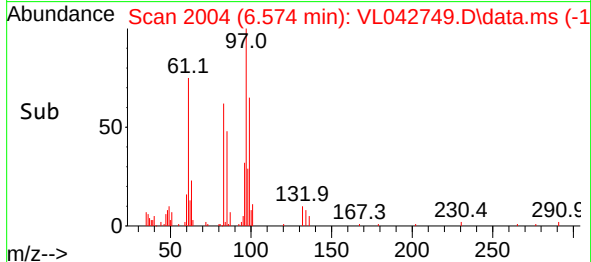
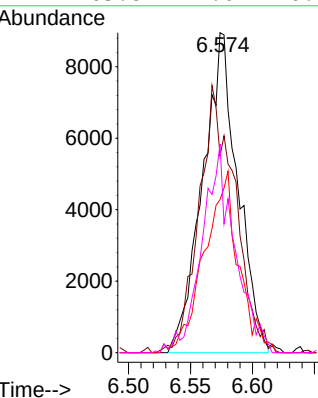
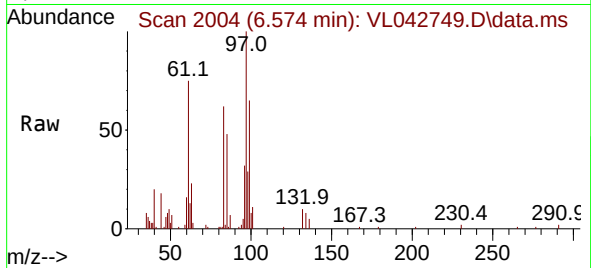
99 63.8 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#48

Dibromochloromethane

Concen: 0.965 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042749.D

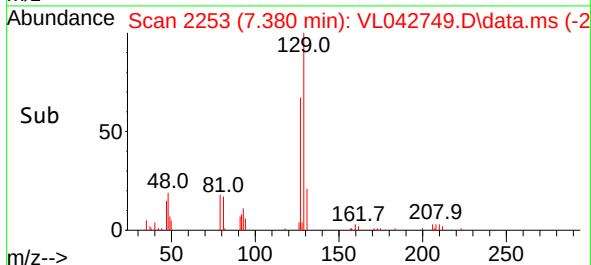
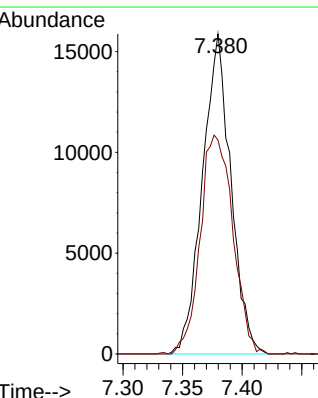
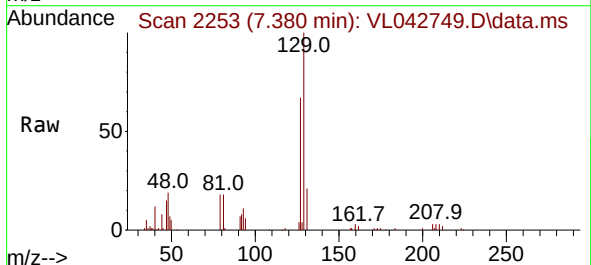
Acq: 23 Jul 2025 10:08

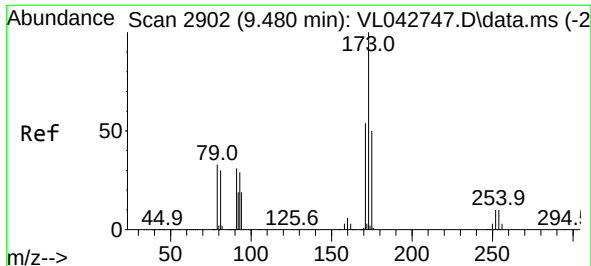
Tgt Ion:129 Resp: 26259

Ion Ratio Lower Upper

129 100

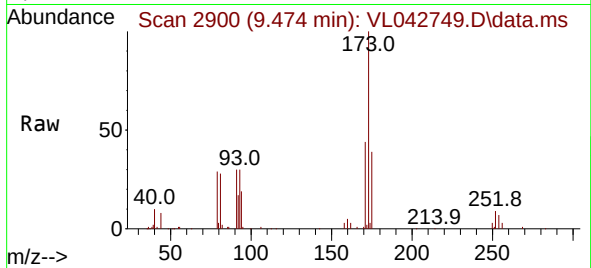
127 78.7 38.7 116.1





#49
Bromoform
Concen: 0.973 ppbv
RT: 9.474 min Scan# 2902
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

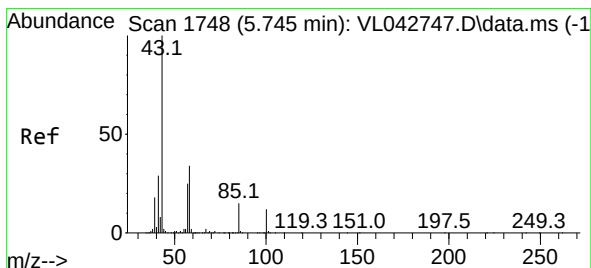
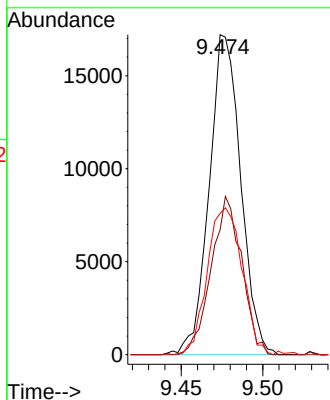
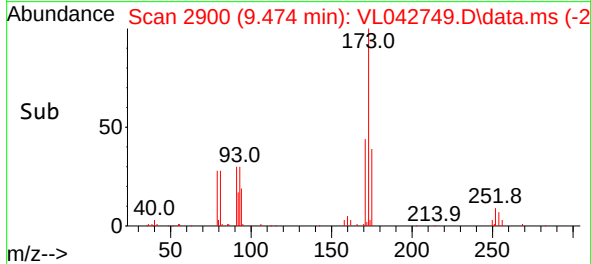
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



Tgt Ion:173 Resp: 2308
Ion Ratio Lower Upper
173 100
175 48.0 38.4 57.6
171 51.3 40.9 61.3

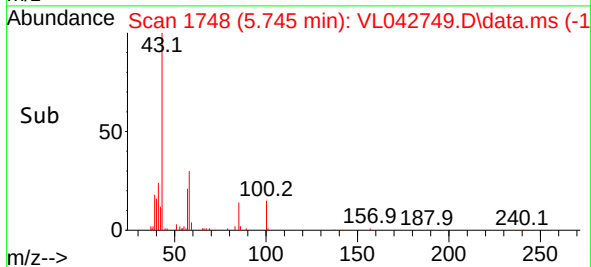
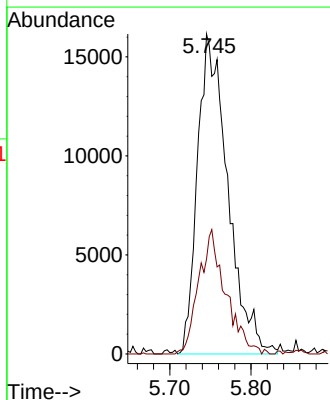
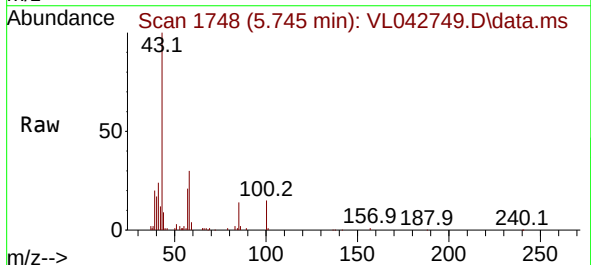
Manual Integrations
APPROVED

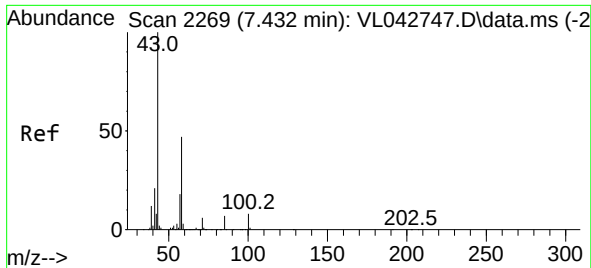
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50
4-Methyl-2-Pentanone
Concen: 1.006 ppbv m
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

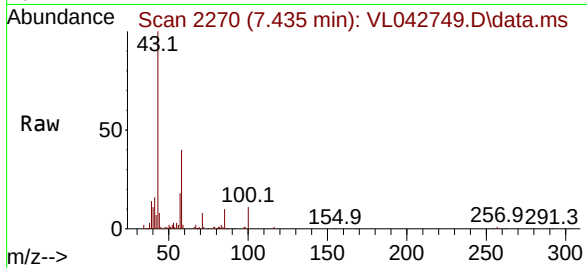
Tgt Ion: 43 Resp: 41715
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#





#51
2-Hexanone
Concen: 0.939 ppbv
RT: 7.435 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

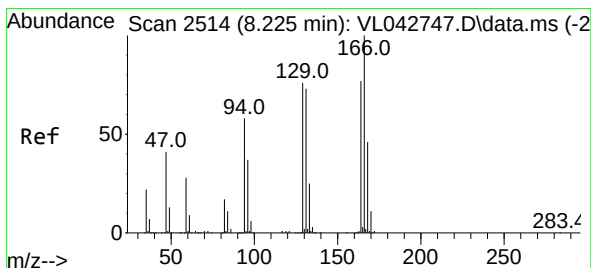
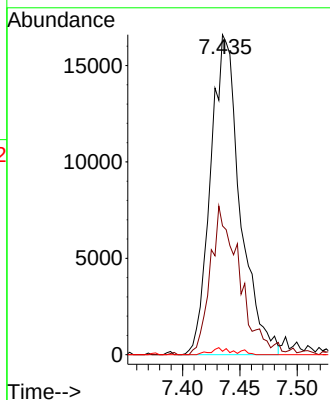
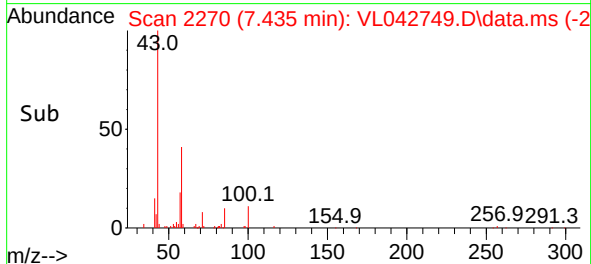
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 1.6 0.2 0.4

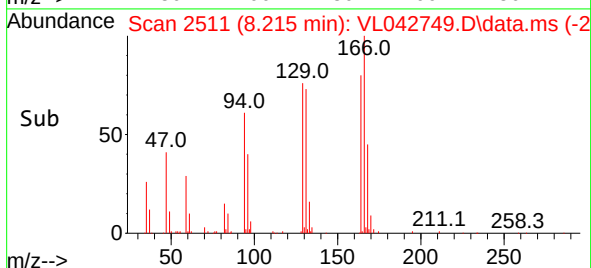
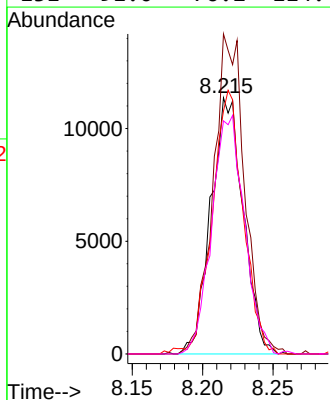
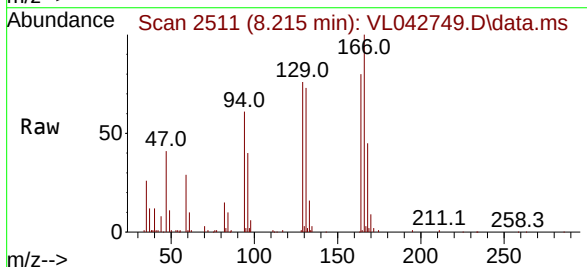
Manual Integrations
APPROVED

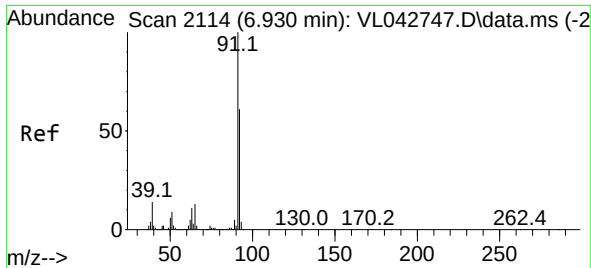
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Tetrachloroethene
Concen: 1.001 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:164 Resp: 18131
Ion Ratio Lower Upper
164 100
166 124.9 104.0 156.0
129 94.8 79.2 118.8
131 91.0 76.2 114.4





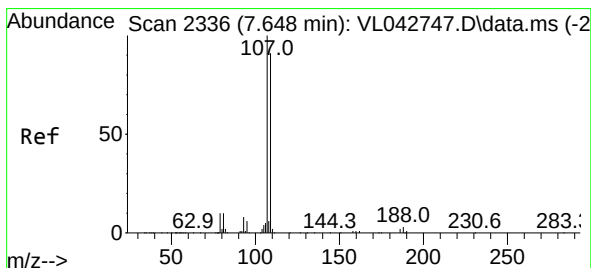
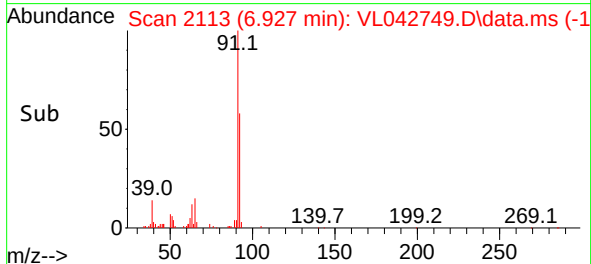
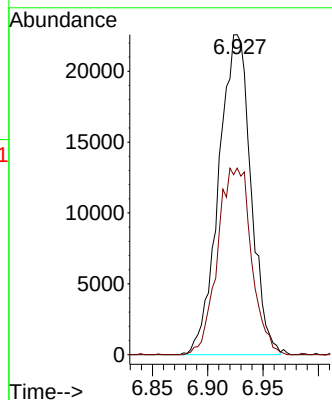
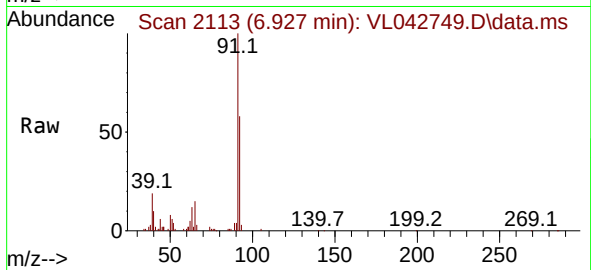
#53
Toluene
Concen: 0.976 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 4564
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0

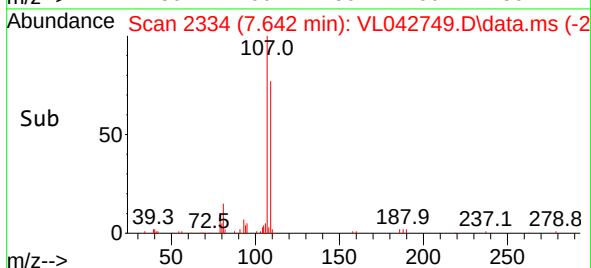
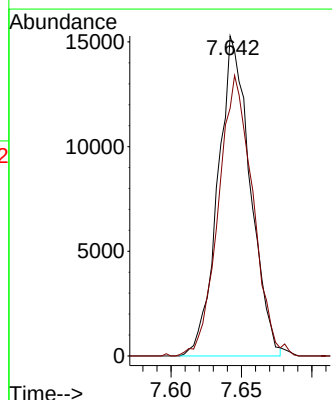
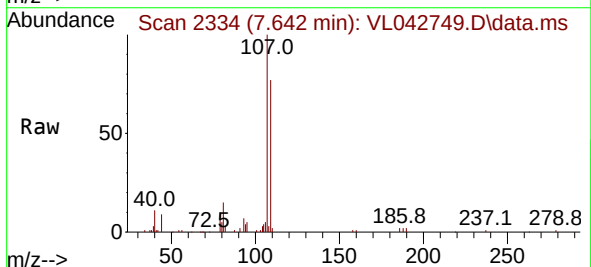
Manual Integrations
APPROVED

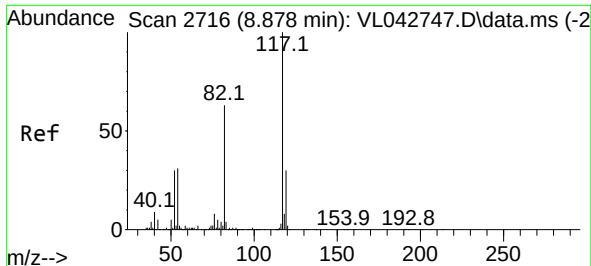
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 1.007 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:107 Resp: 24427
Ion Ratio Lower Upper
107 100
109 76.9 72.7 109.1





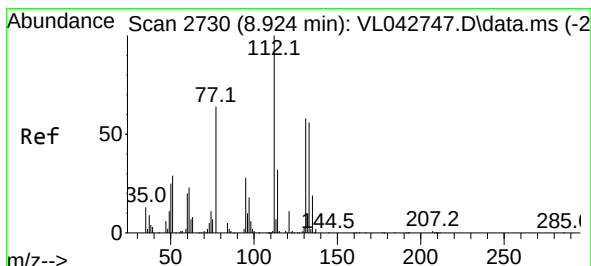
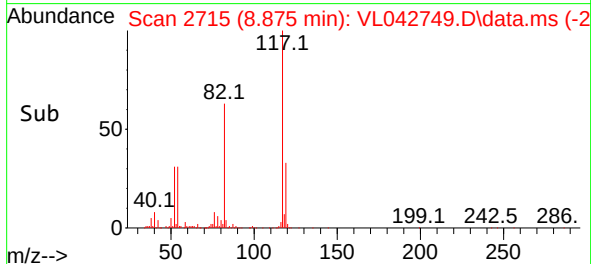
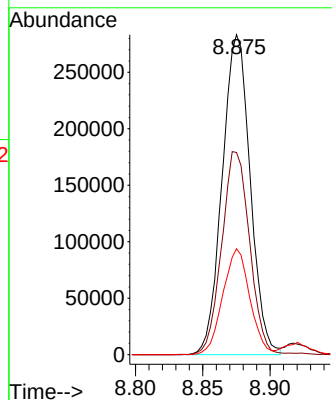
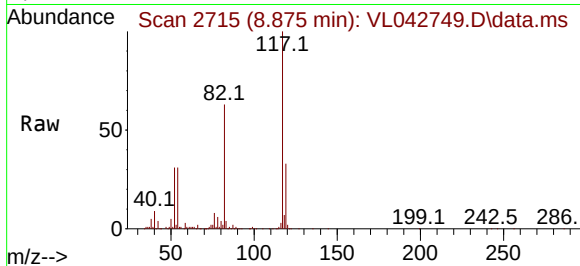
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 410018
Ion Ratio Lower Upper
117 100
82 63.5 53.3 79.9
119 32.0 25.8 38.6

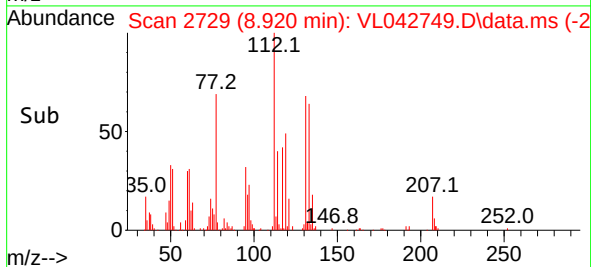
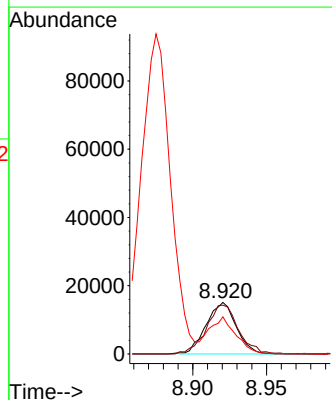
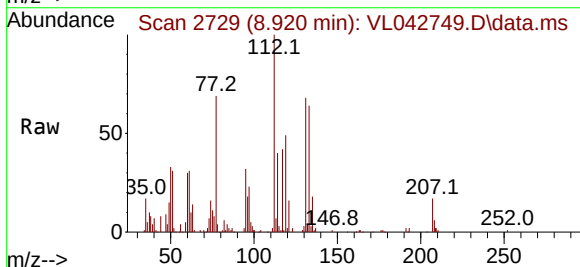
Manual Integrations
APPROVED

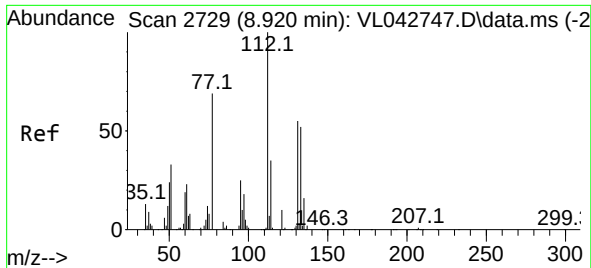
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

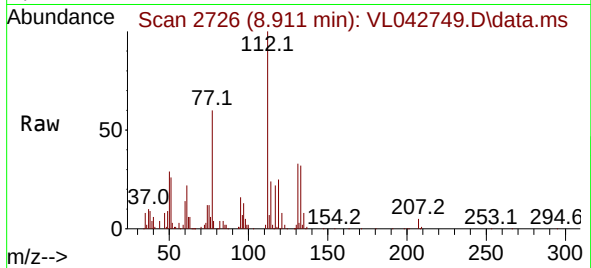
Tgt Ion:131 Resp: 21319
Ion Ratio Lower Upper
131 100
133 102.0 76.8 115.2
119 58.6 49.7 74.5





#57
Chlorobenzene
Concen: 1.053 ppbv
RT: 8.911 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

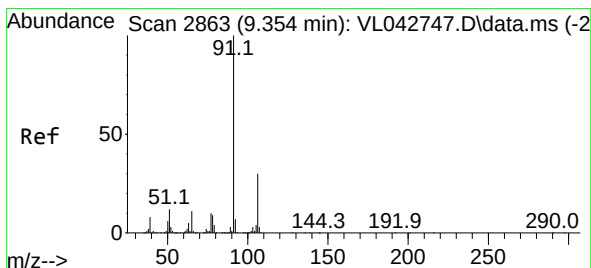
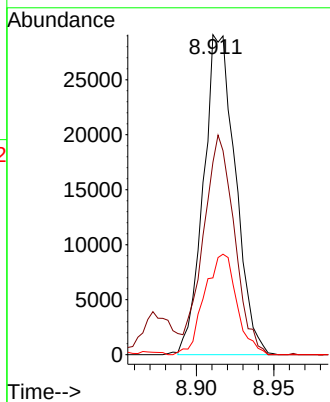
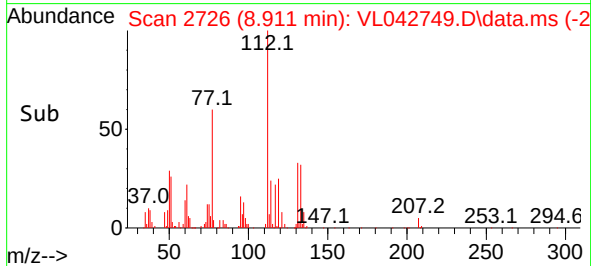
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:112 Resp: 41788
Ion Ratio Lower Upper
112 100
77 60.1 56.4 84.6
114 24.0 31.2 38.2

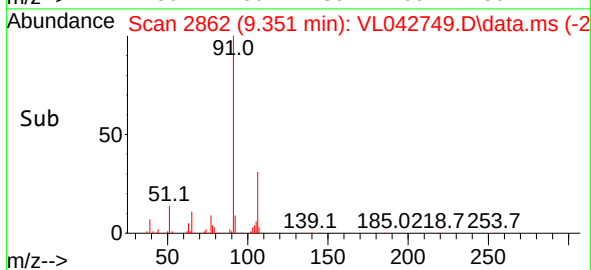
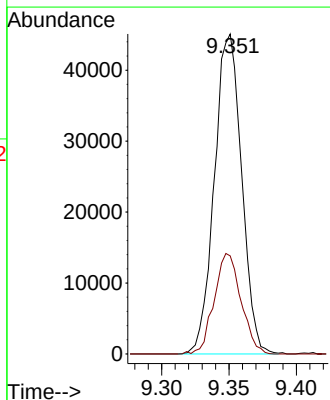
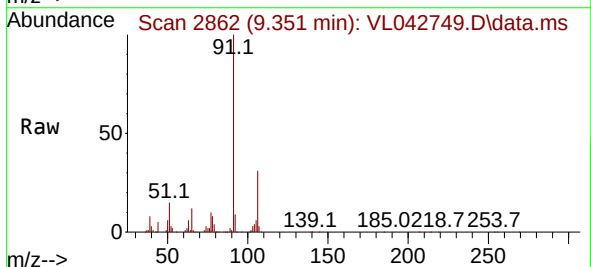
Manual Integrations
APPROVED

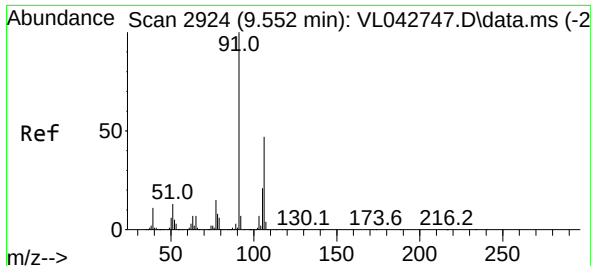
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 0.980 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 63467
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6





#59

m/p-Xylene

Concen: 2.020 ppbv m

RT: 9.545 min Scan# 29

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 10454

Ion Ratio Lower Upper

91 100

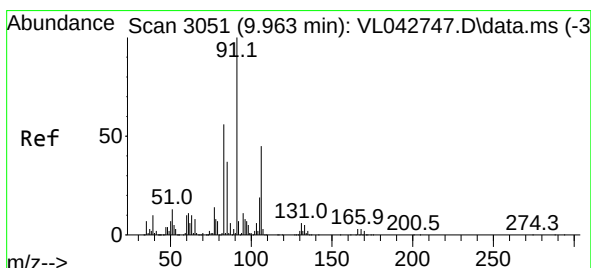
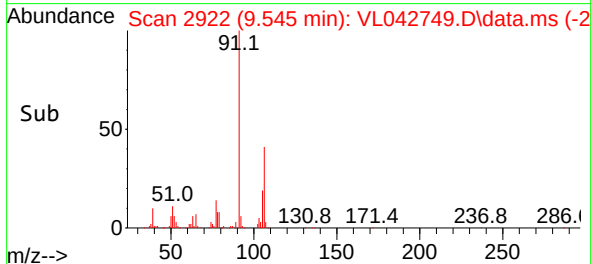
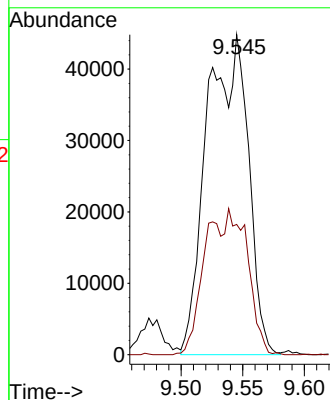
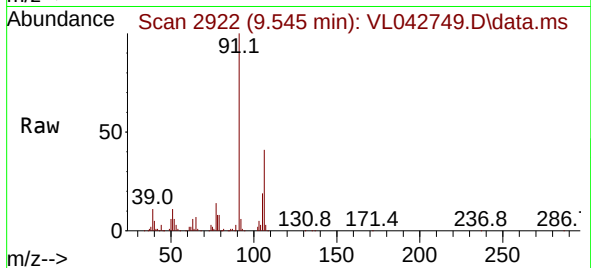
106 46.9 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#60

o-Xylene

Concen: 1.015 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042749.D

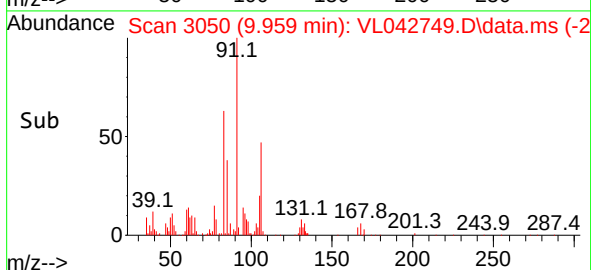
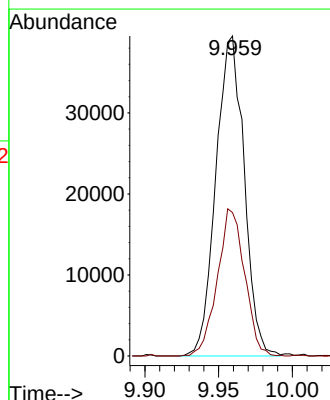
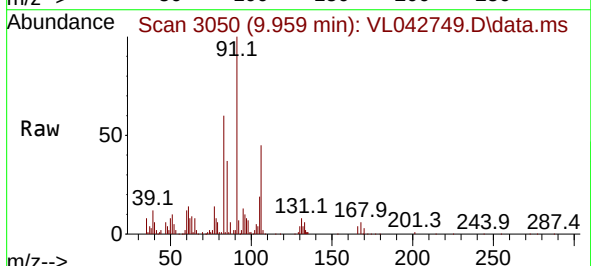
Acq: 23 Jul 2025 10:08

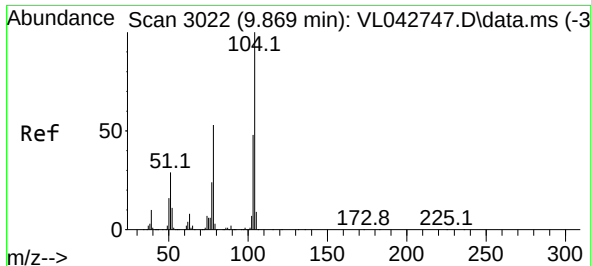
Tgt Ion: 91 Resp: 52499

Ion Ratio Lower Upper

91 100

106 44.6 22.0 66.0





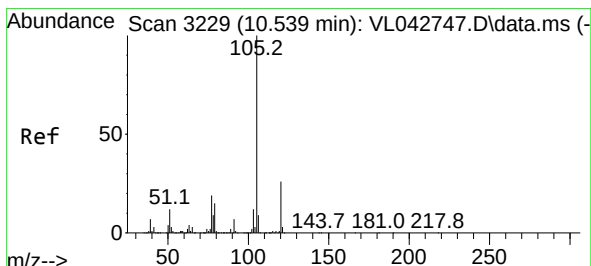
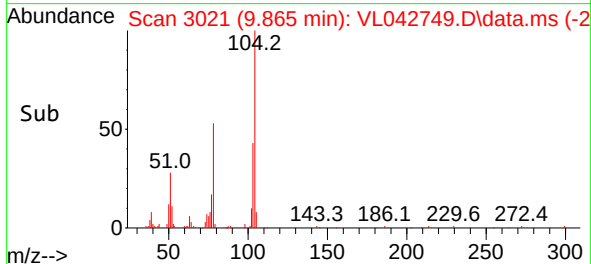
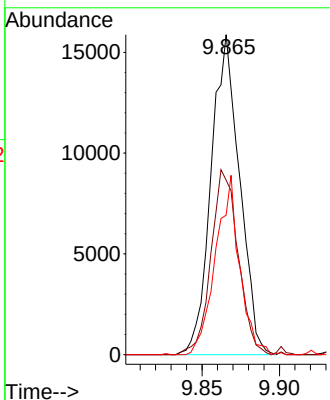
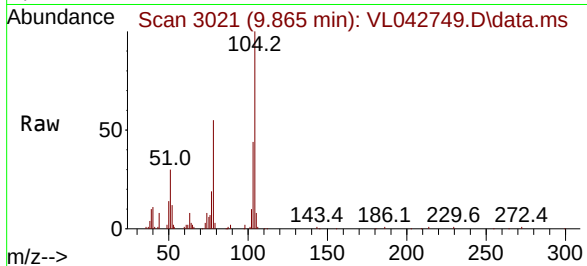
#61
Styrene
Concen: 0.934 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 2031
Ion Ratio Lower Upper
104 100
78 55.7 41.5 62.3
103 47.2 37.5 56.3

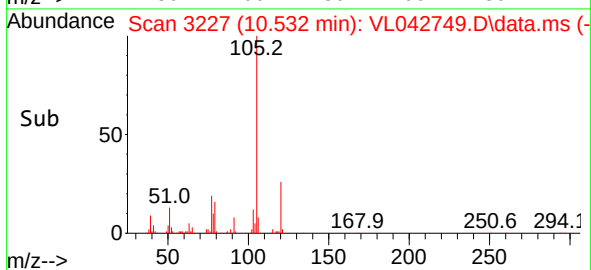
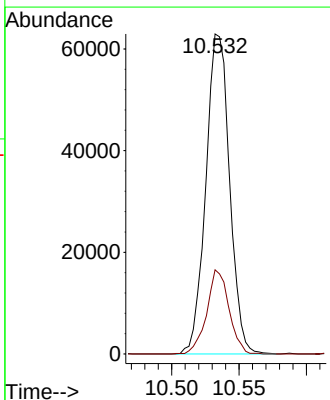
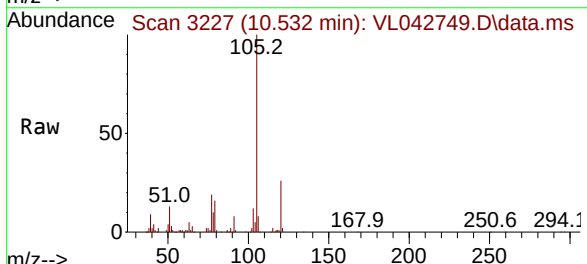
Manual Integrations
APPROVED

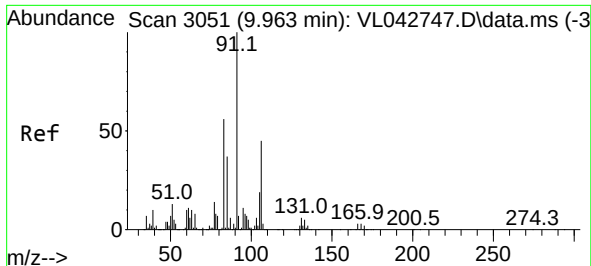
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 1.013 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 77278
Ion Ratio Lower Upper
105 100
120 24.6 20.5 30.7





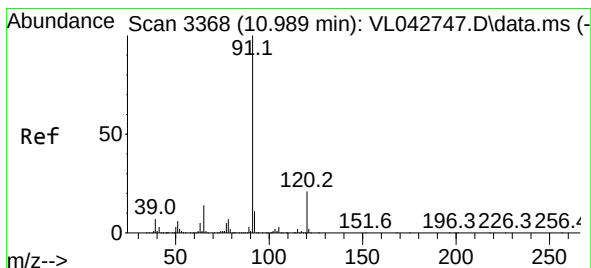
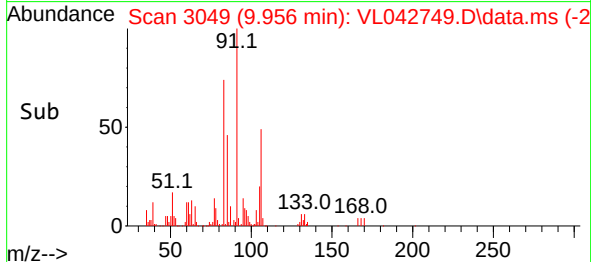
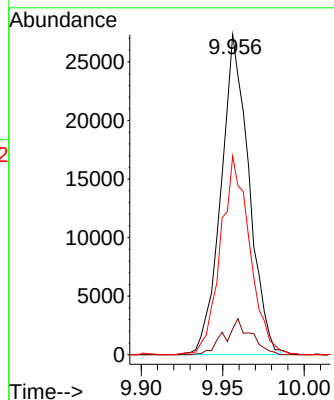
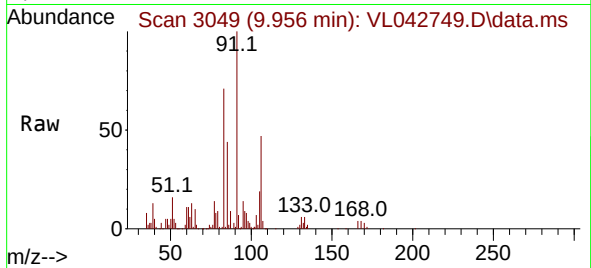
#63
1,1,2,2-Tetrachloroethane
Concen: 0.967 ppbv
RT: 9.956 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion: 83 Resp: 3259
Ion Ratio Lower Upper
83 100
131 10.6 5.0 15.0
85 65.1 32.6 97.7

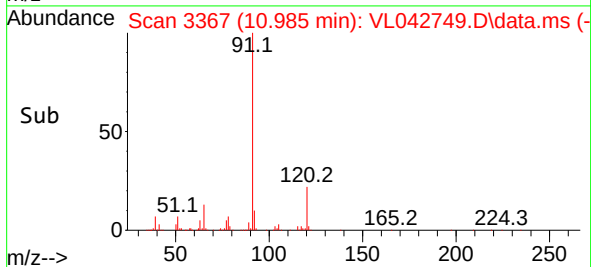
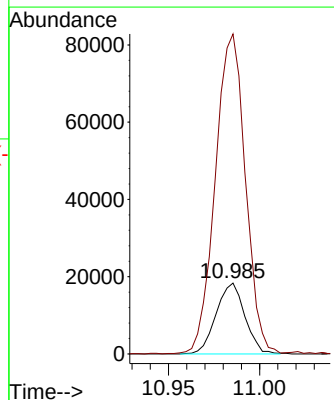
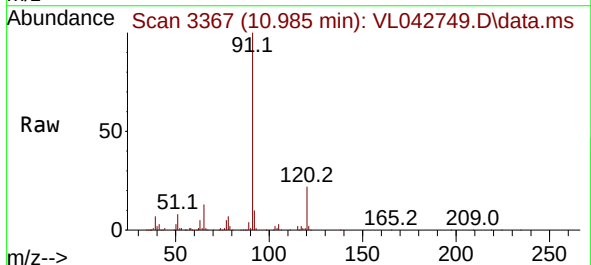
Manual Integrations
APPROVED

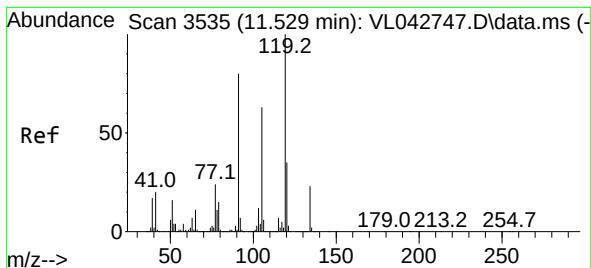
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#64
n-propylbenzene
Concen: 1.009 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:120 Resp: 20073
Ion Ratio Lower Upper
120 100
91 478.1 372.7 559.1





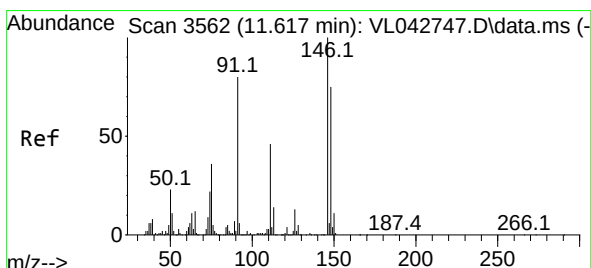
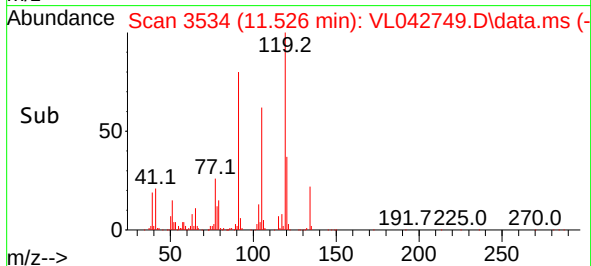
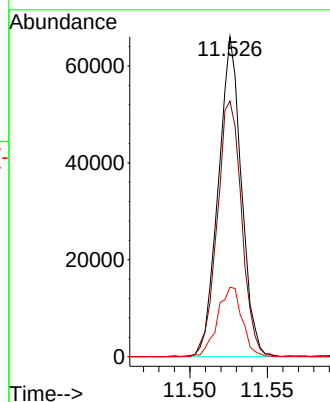
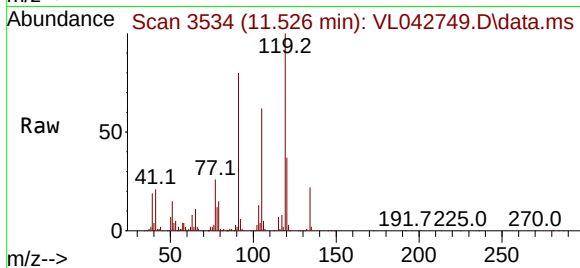
#65
tert-Butylbenzene
Concen: 1.010 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion: 119 Resp: 68428
Ion Ratio Lower Upper
119 100
91 85.1 64.0 96.0
134 23.1 17.3 25.9

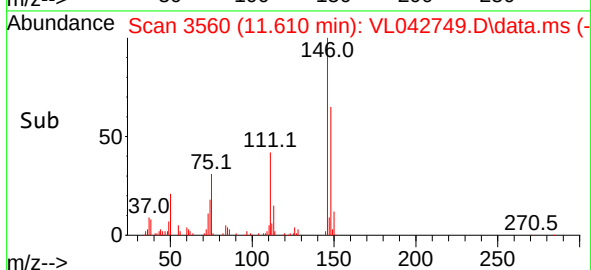
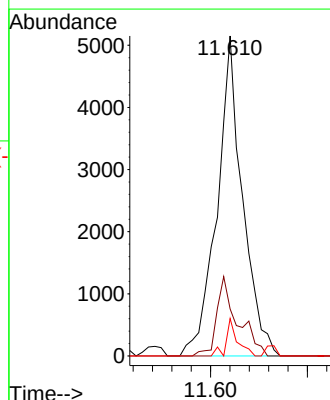
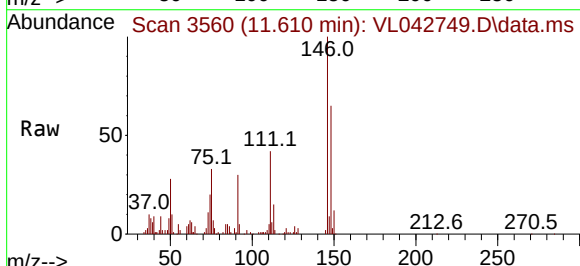
Manual Integrations
APPROVED

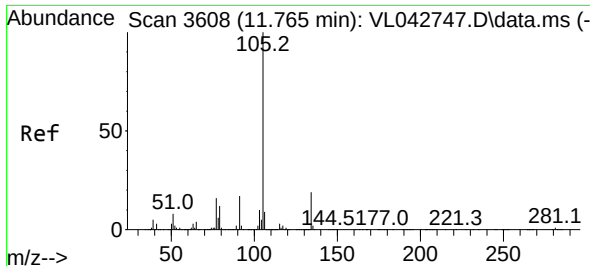
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 0.845 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

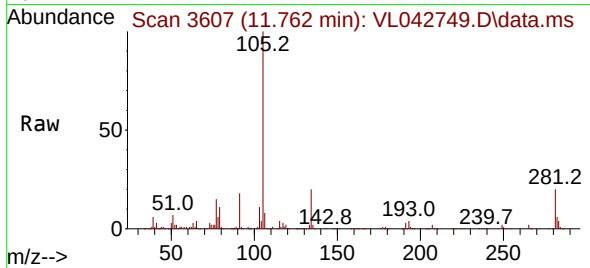
Tgt Ion: 91 Resp: 4700
Ion Ratio Lower Upper
91 100
126 20.3 14.4 21.6
128 6.5 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 1.053 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

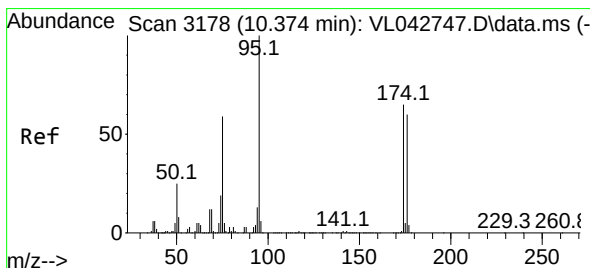
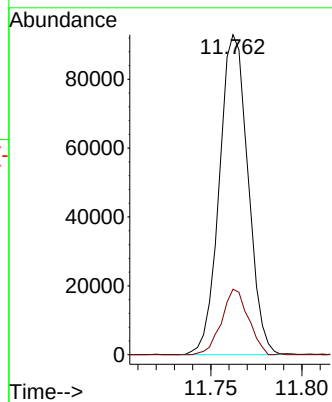
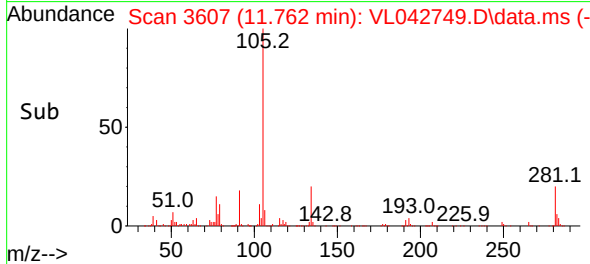
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 105 Resp: 101458
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3

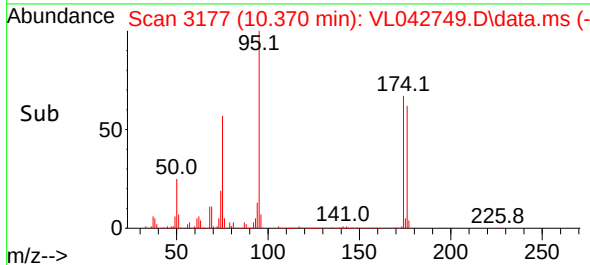
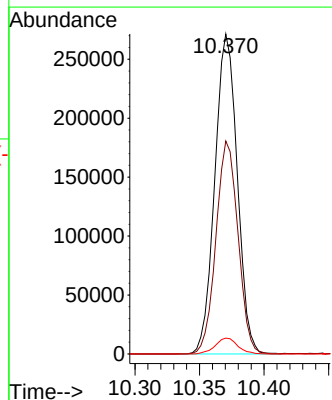
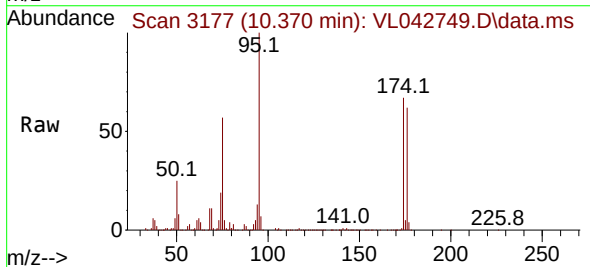
Manual Integrations
 APPROVED

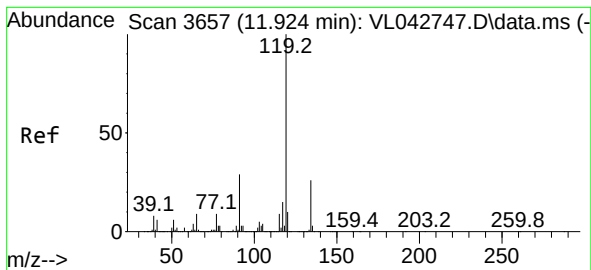
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.091 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 95 Resp: 327673
 Ion Ratio Lower Upper
 95 100
 174 65.4 53.8 80.6
 175 5.0 4.0 6.0





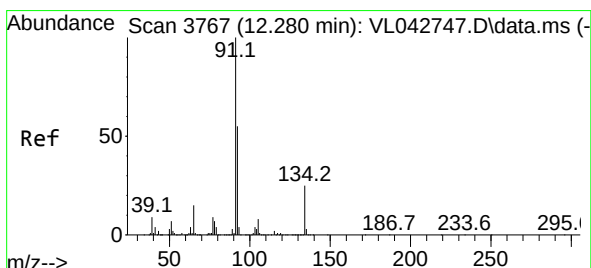
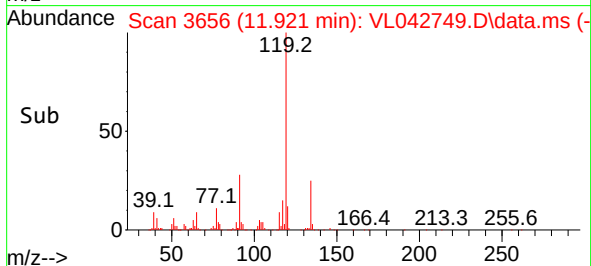
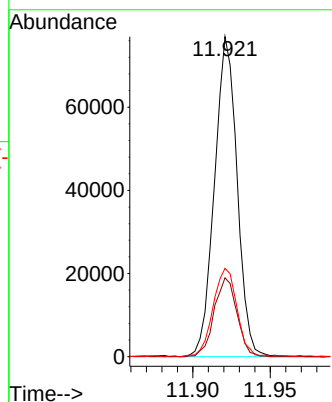
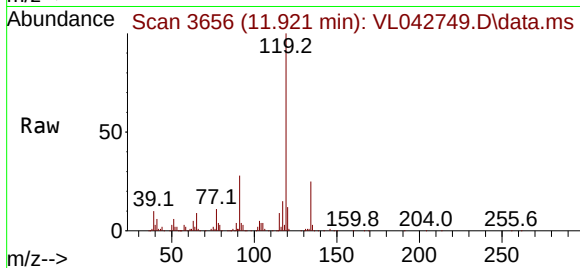
#69
 p-Isopropyltoluene
 Concen: 0.995 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 119 Resp: 78180
 Ion Ratio Lower Upper
 119 100
 134 24.8 20.6 31.0
 91 29.8 23.2 34.8

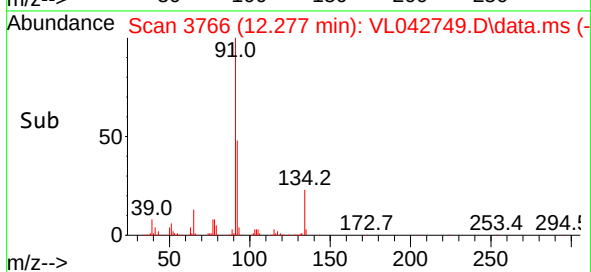
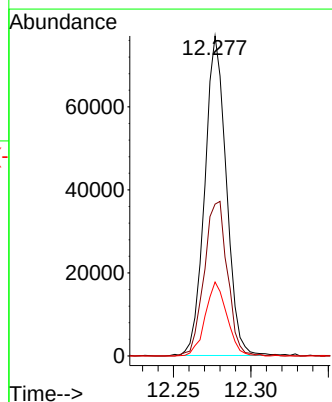
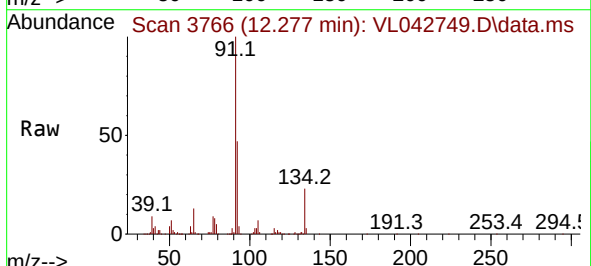
Manual Integrations
 APPROVED

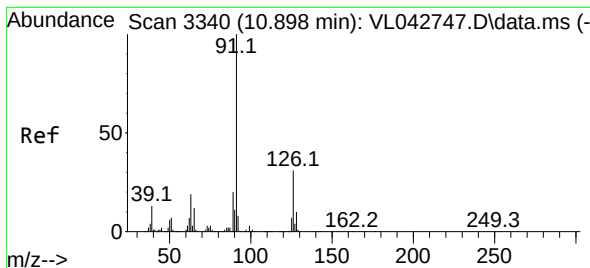
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#70
 n-Butylbenzene
 Concen: 0.978 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

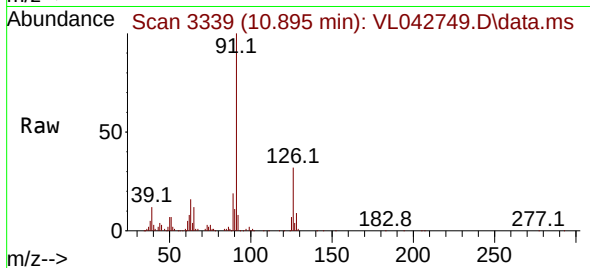
Tgt Ion: 91 Resp: 74257
 Ion Ratio Lower Upper
 91 100
 92 52.4 43.4 65.2
 134 23.4 19.6 29.4





#71
2-Chlorotoluene
Concen: 1.012 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

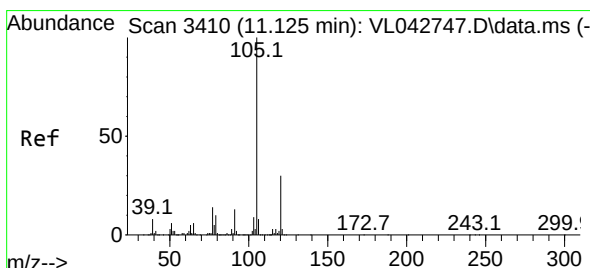
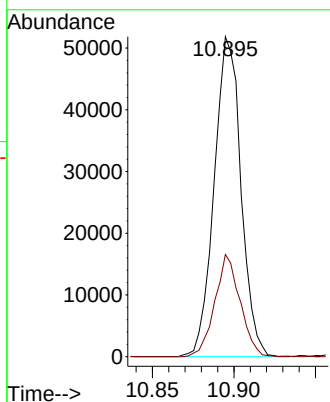
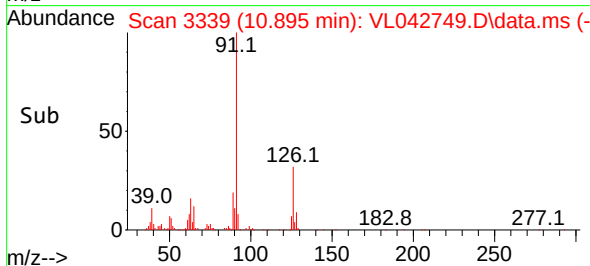
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



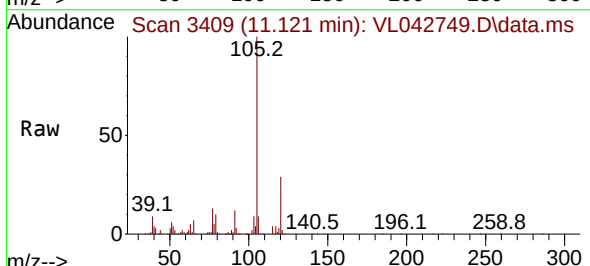
Tgt Ion: 91 Resp: 5919
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2

Manual Integrations
APPROVED

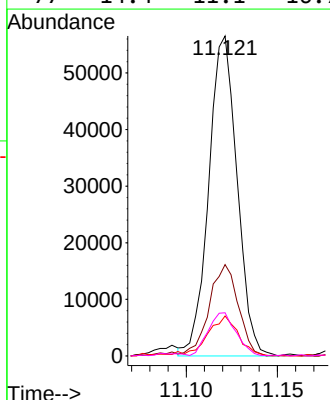
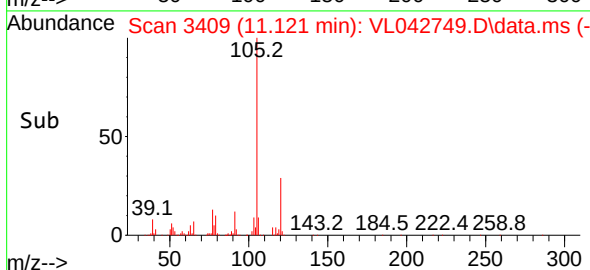
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

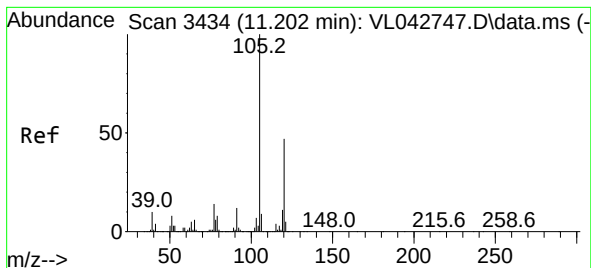


#72
4-Ethyltoluene
Concen: 0.991 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion:105 Resp: 61199
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 14.2 10.6 15.8
77 14.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.962 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 4890

Ion Ratio Lower Upper

105 100

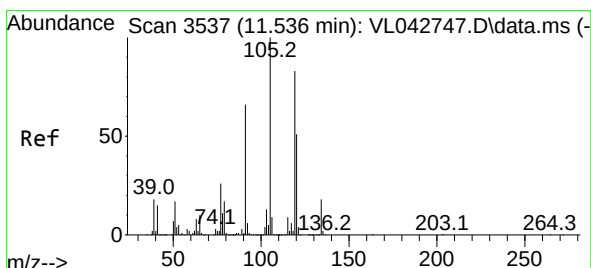
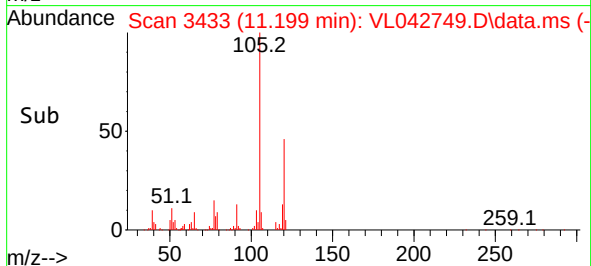
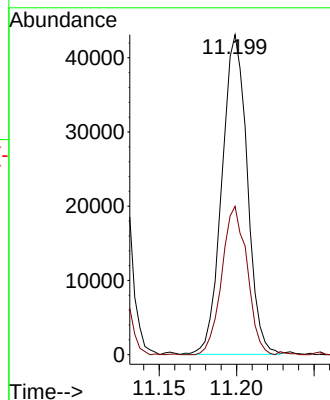
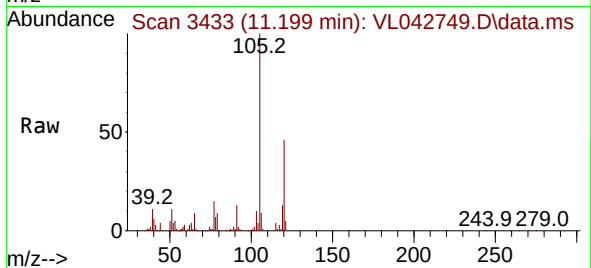
120 46.4 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.994 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 55153

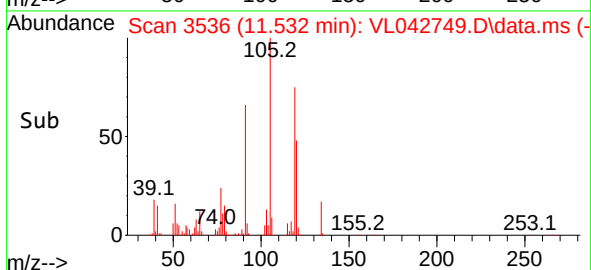
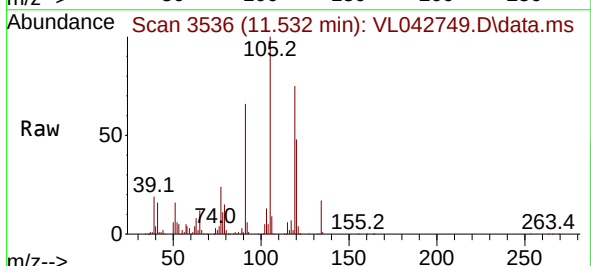
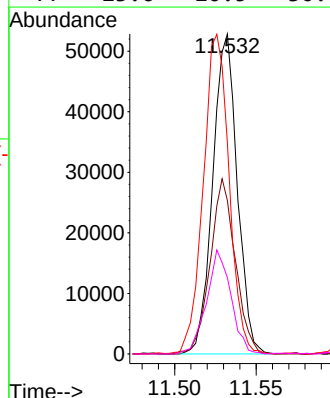
Ion Ratio Lower Upper

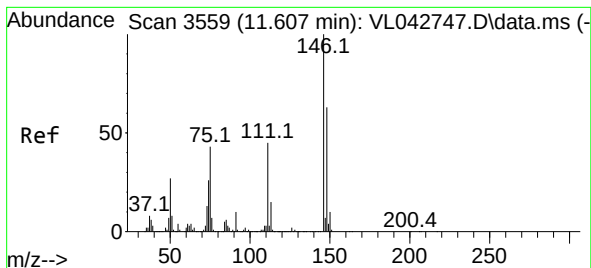
105 100

120 48.0 40.8 61.2

91 65.8 53.0 79.4

77 23.6 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 1.022 ppbv

RT: 11.600 min Scan# 3559

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

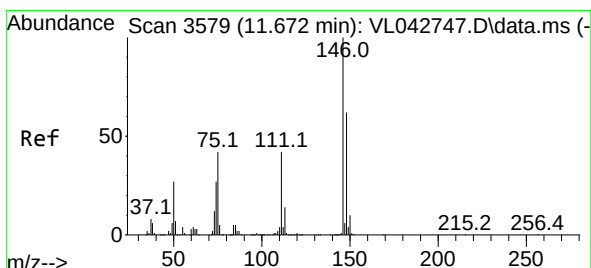
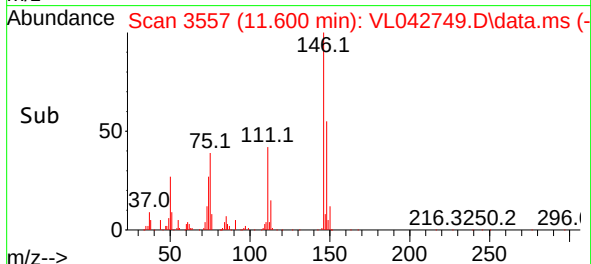
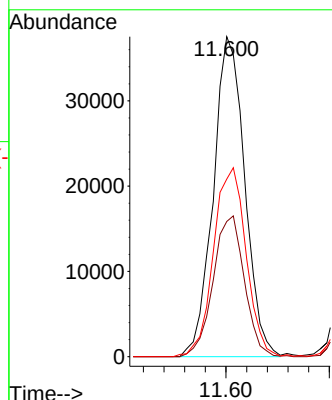
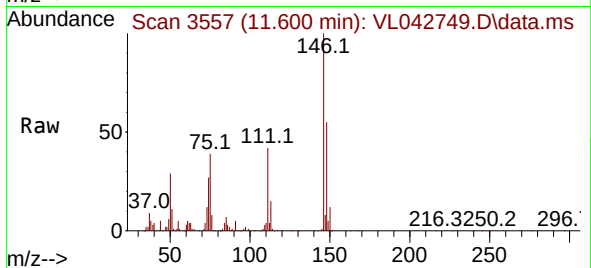
VSTDIC001

Tgt Ion:	146	Resp:	3975
Ion Ratio	Lower	Upper	
146	100		
111	43.6	22.7	68.0
148	61.0	31.9	95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 0.999 ppbv

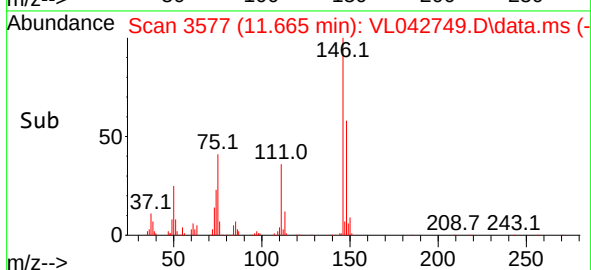
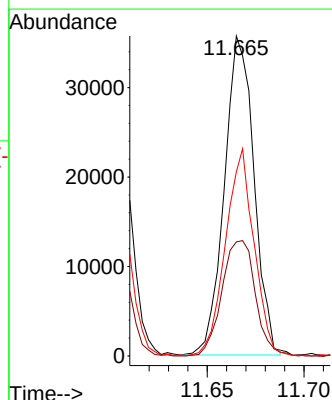
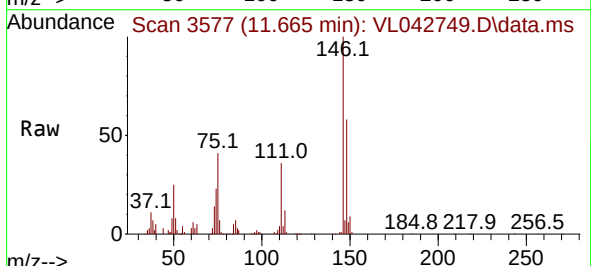
RT: 11.665 min Scan# 3577

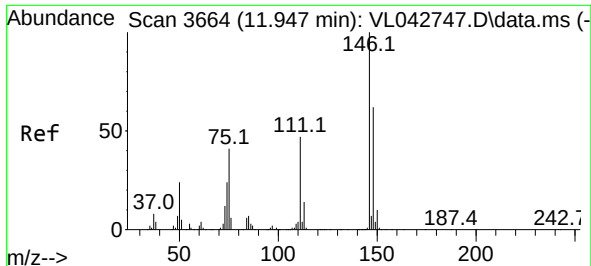
Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

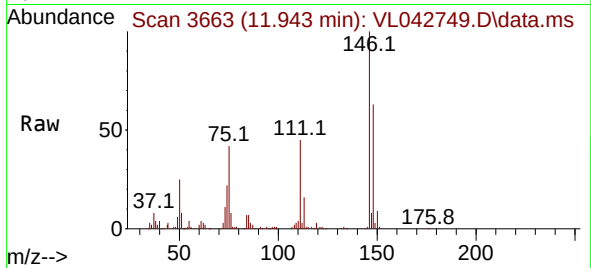
Tgt Ion:	146	Resp:	38018
Ion Ratio	Lower	Upper	
146	100		
111	40.8	21.4	64.2
148	63.1	32.1	96.3





#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

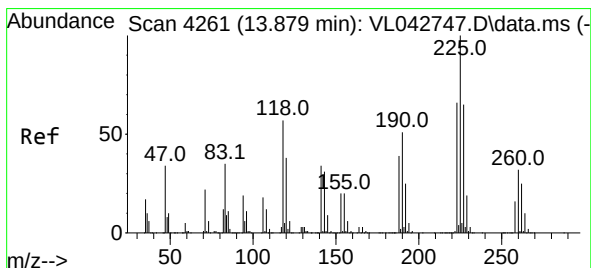
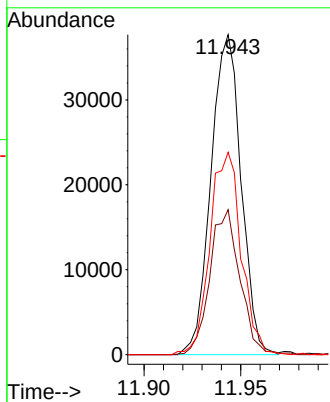
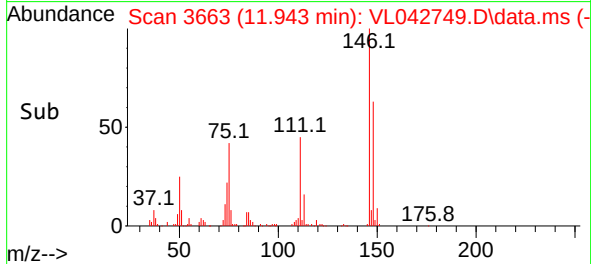
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:146 Resp: 4083
Ion Ratio Lower Upper
146 100
111 45.3 23.7 71.1
148 65.5 32.6 97.7

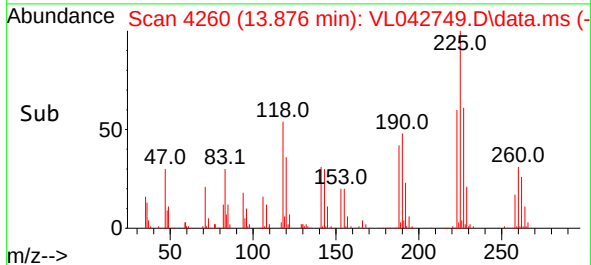
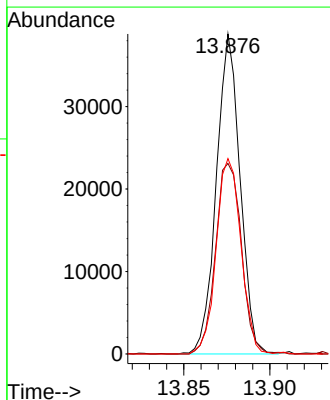
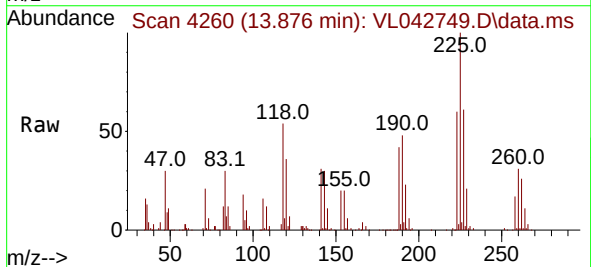
Manual Integrations
APPROVED

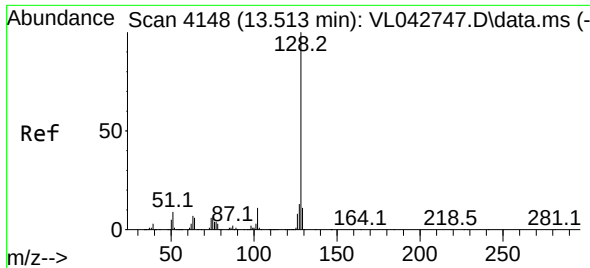
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#78
Hexachloro-1,3-Butadiene
Concen: 1.076 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

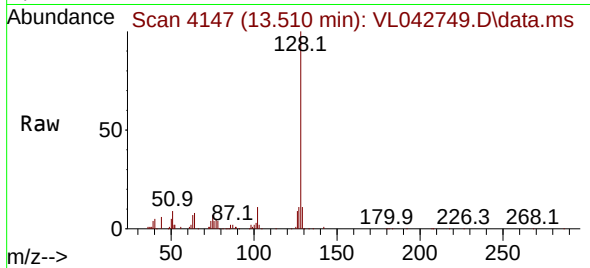
Tgt Ion:225 Resp: 37228
Ion Ratio Lower Upper
225 100
223 65.2 50.7 76.1
227 63.9 50.5 75.7





#79
Naphthalene
Concen: 0.907 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

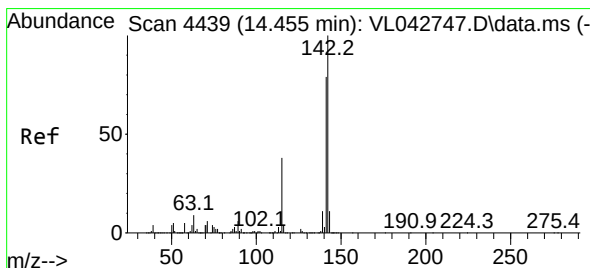
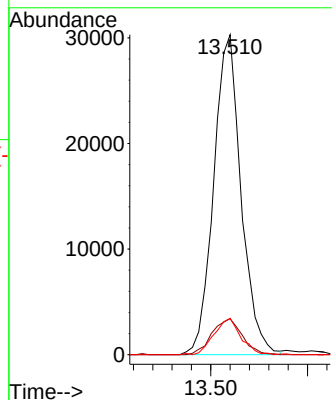
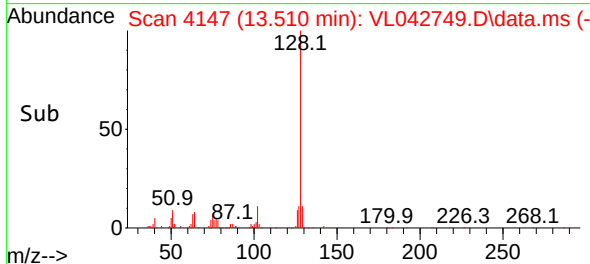
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 29792
Ion Ratio Lower Upper
128 100
127 11.3 10.5 15.7
129 11.4 8.6 13.0

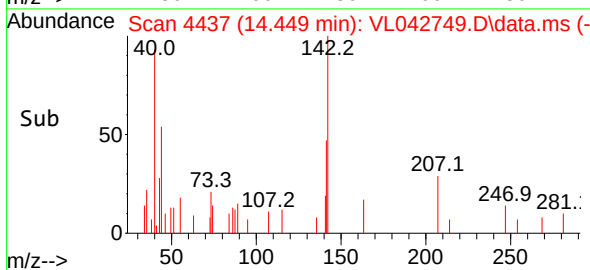
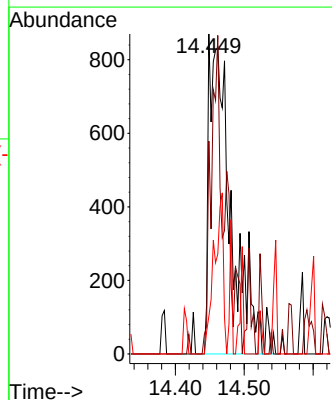
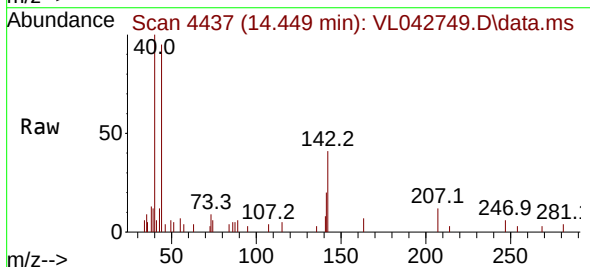
Manual Integrations
APPROVED

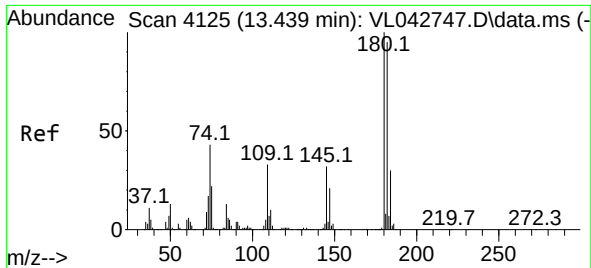
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#80
Naphthalene,2-methyl-
Concen: 1.184 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

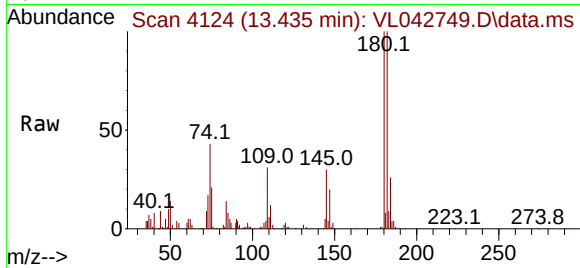
Tgt Ion:142 Resp: 1950
Ion Ratio Lower Upper
142 100
141 63.5 65.8 98.8#
115 25.1 31.2 46.8#





#81
 1,2,4-Trichlorobenzene
 Concen: 1.053 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

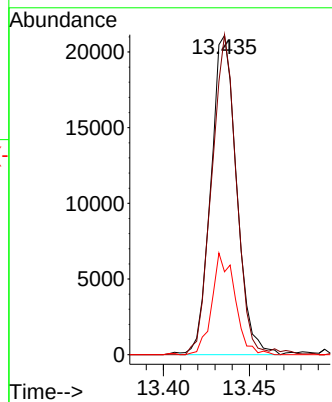
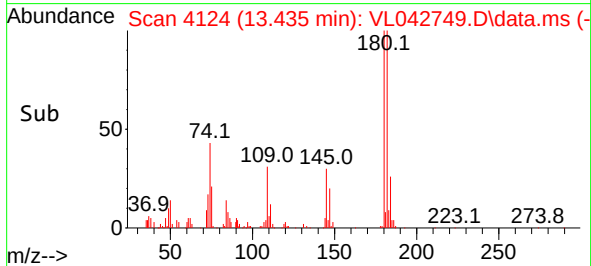
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:180 Resp: 21929
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.2 114.2
 184 28.7 24.8 37.2

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 : 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

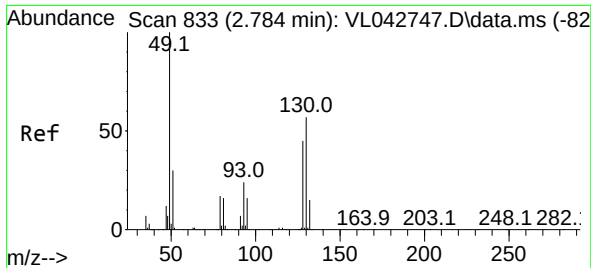
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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



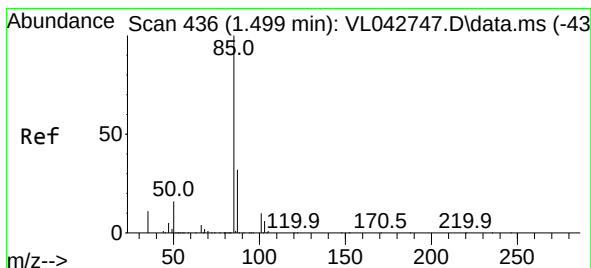
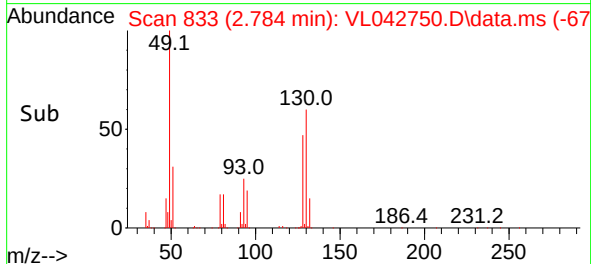
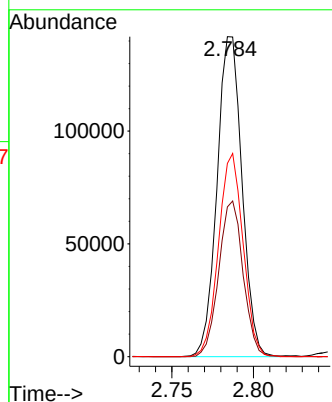
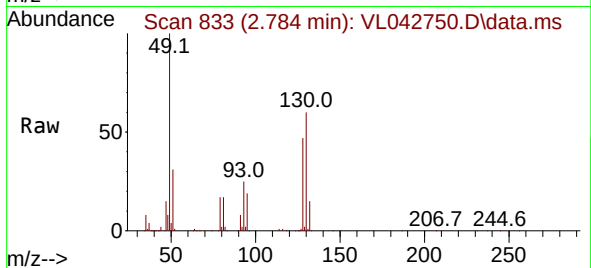
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 49 Resp: 151250
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 62.2 30.3 90.8

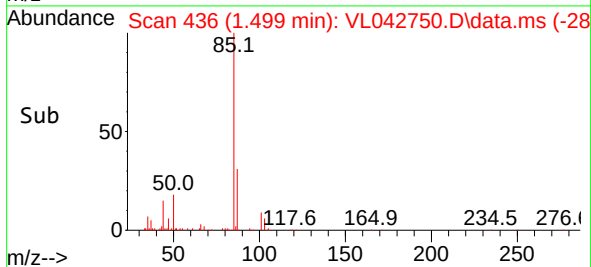
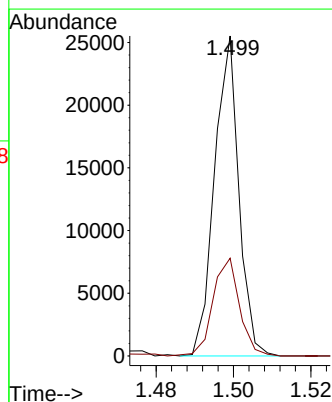
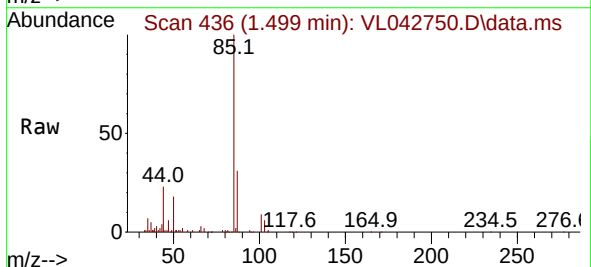
Manual Integrations
APPROVED

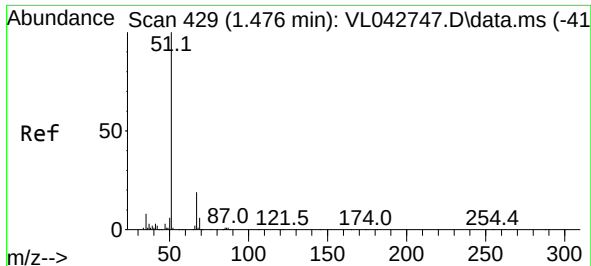
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

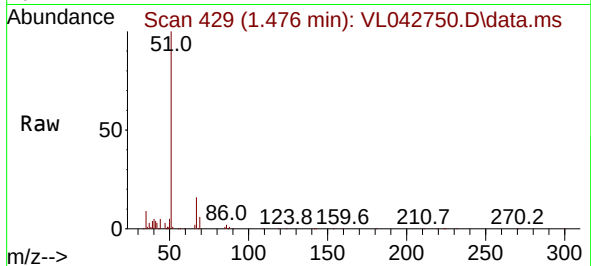
Tgt Ion: 85 Resp: 11099
Ion Ratio Lower Upper
85 100
87 30.6 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

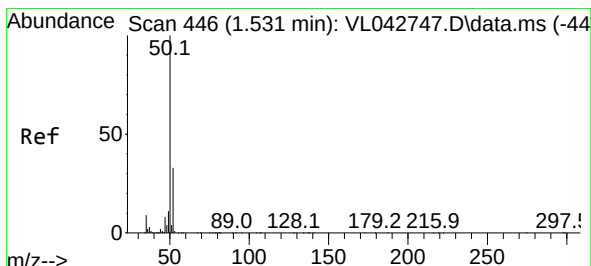
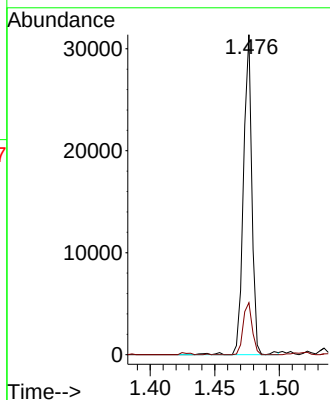
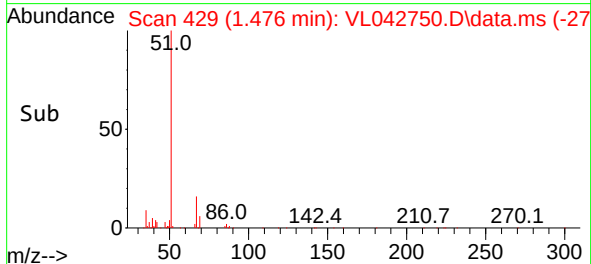
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



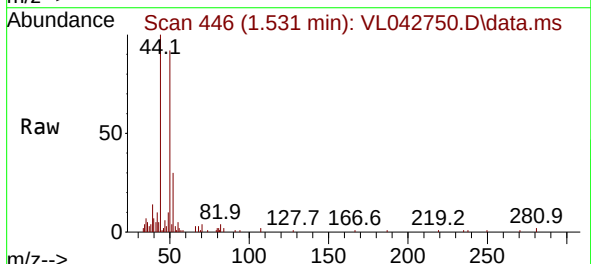
Tgt Ion: 51 Resp: 1429
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.6

Manual Integrations
APPROVED

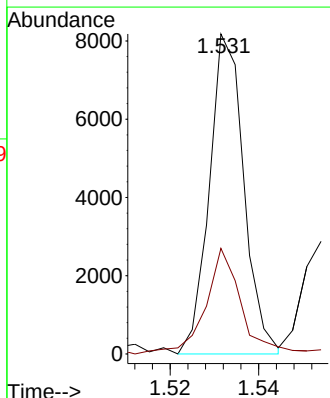
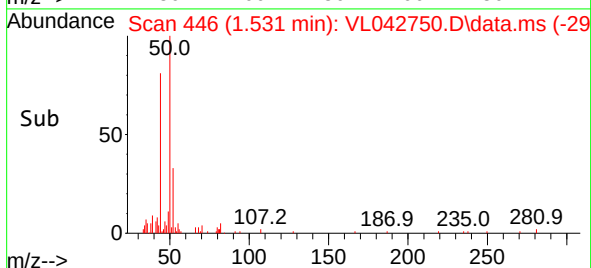
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

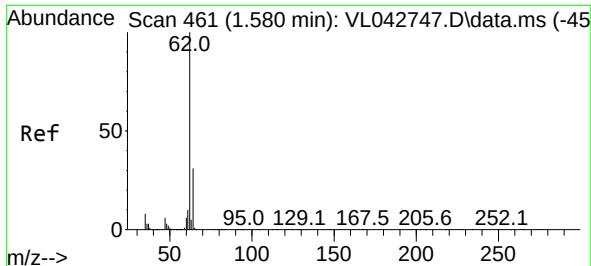


#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 50 Resp: 4428
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0





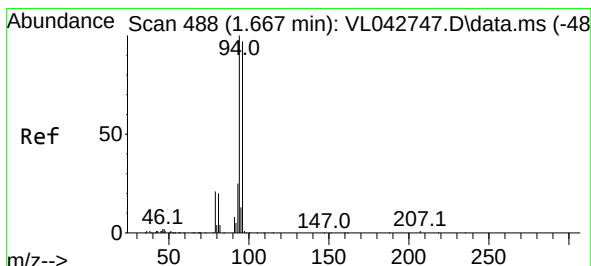
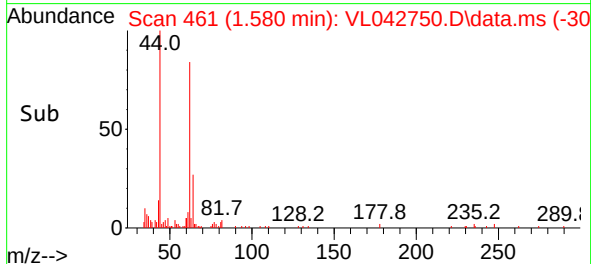
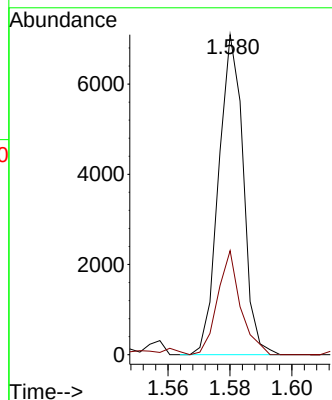
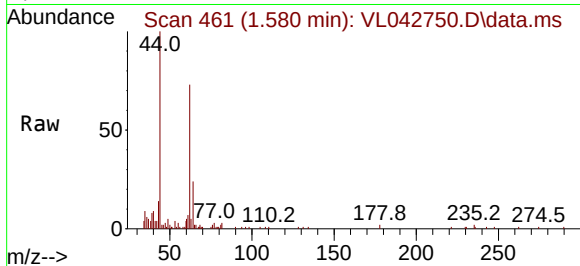
#5
 Vinyl Chloride
 Concen: 0.488 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 3902
 Ion Ratio Lower Upper
 62 100
 64 32.5 24.5 36.7

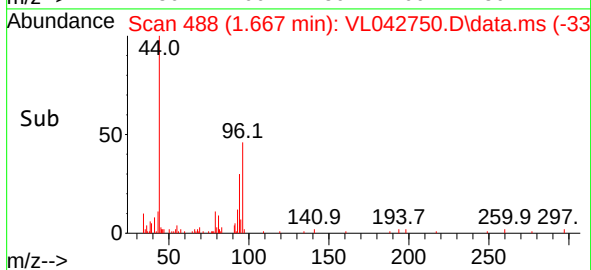
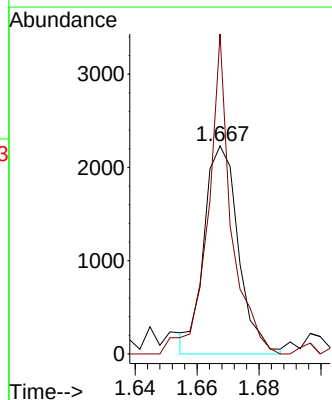
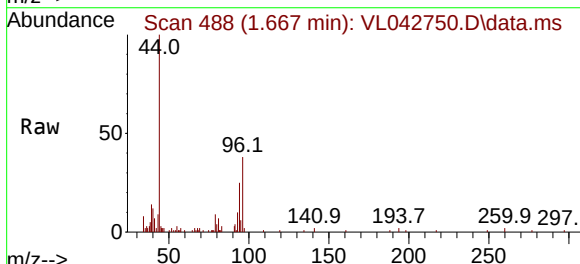
Manual Integrations
 APPROVED

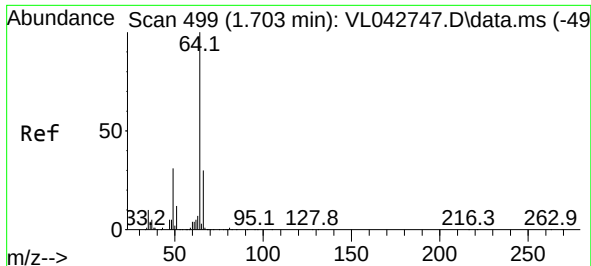
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 0.556 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

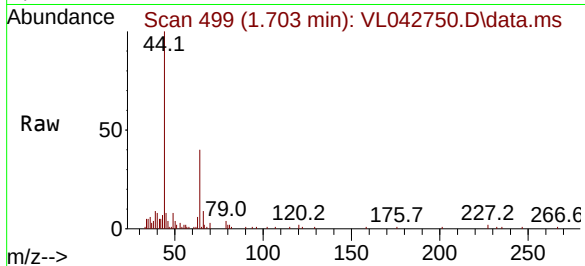
Tgt Ion: 94 Resp: 1717
 Ion Ratio Lower Upper
 94 100
 96 157.5 77.6 116.4#





#7
Chloroethane
Concen: 0.681 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

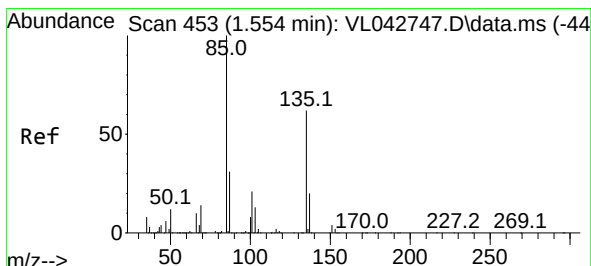
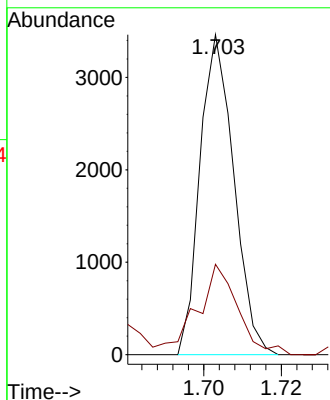
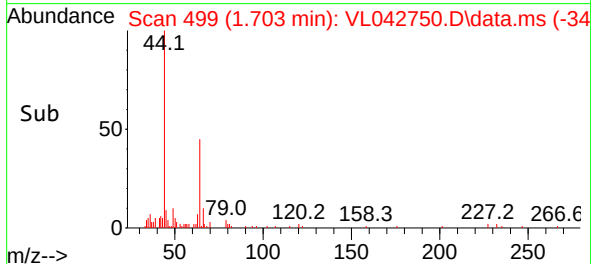
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5



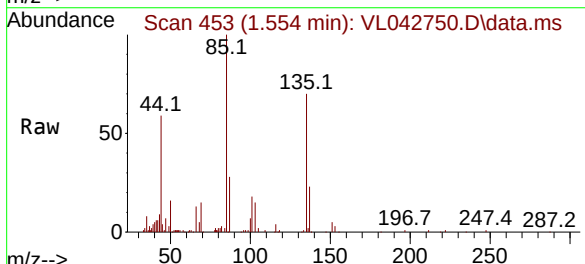
Tgt Ion: 64 Resp: 210
Ion Ratio Lower Upper
64 100
66 28.3 24.1 36.1

Manual Integrations
APPROVED

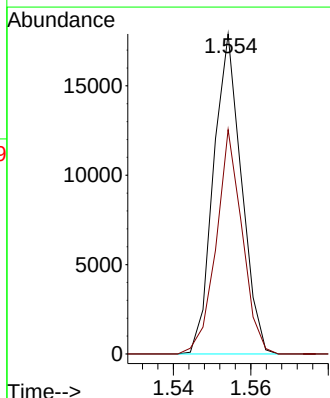
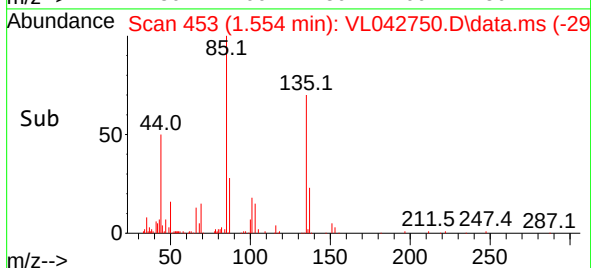
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

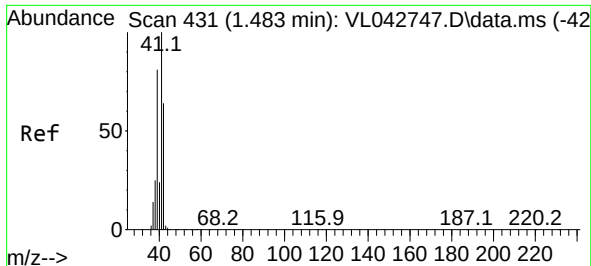


#8
Dichlorotetrafluoroethane
Concen: 0.545 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 85 Resp: 8971
Ion Ratio Lower Upper
85 100
135 65.3 50.6 76.0





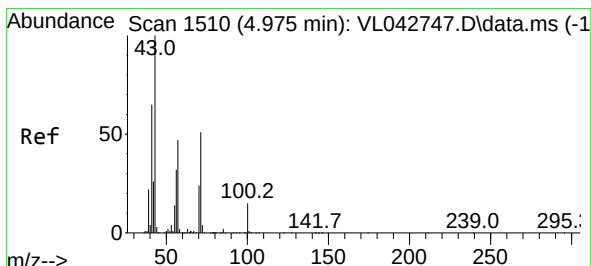
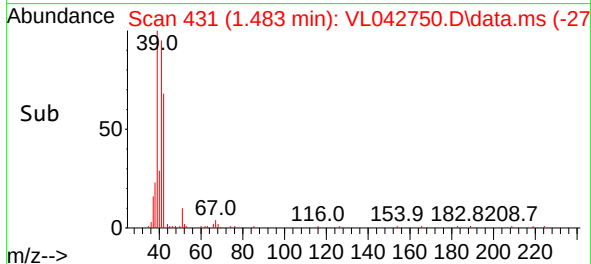
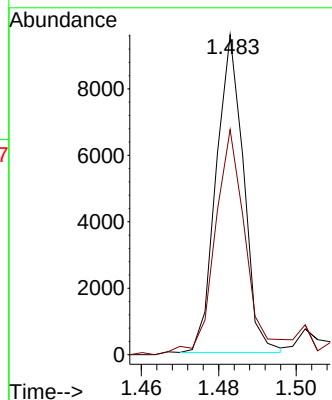
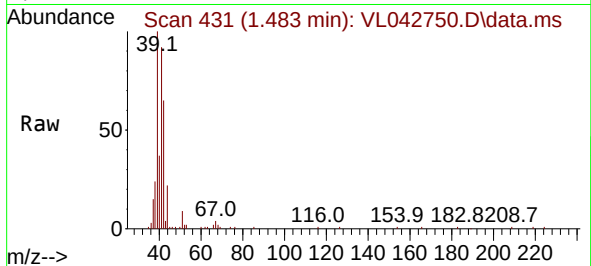
#9
 Propene
 Concen: 0.496 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 469
 Ion Ratio Lower Upper
 41 100
 42 84.9 53.2 79.8

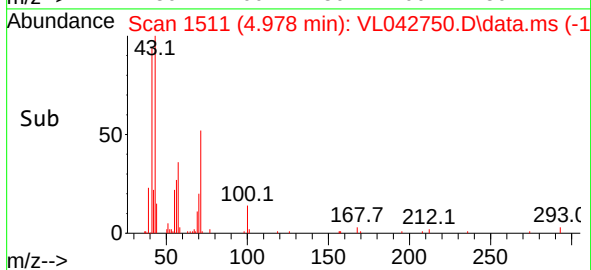
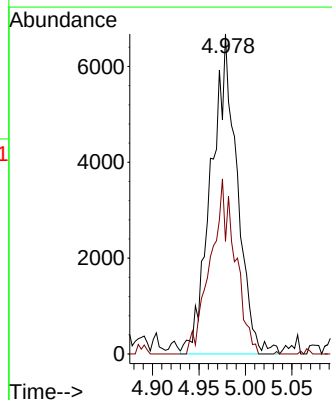
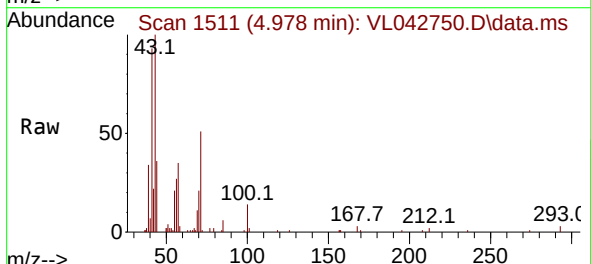
Manual Integrations
 APPROVED

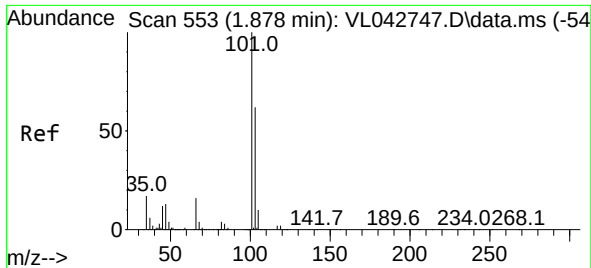
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#10
 Heptane
 Concen: 0.511 ppbv m
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

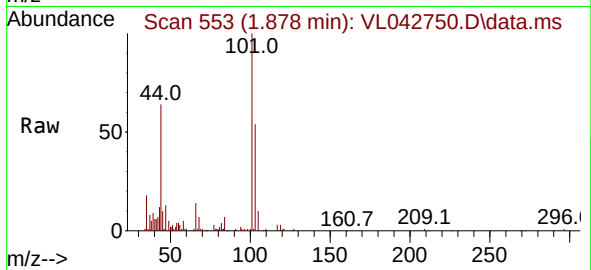
Tgt Ion: 43 Resp: 13003
 Ion Ratio Lower Upper
 43 100
 57 51.9 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 0.535 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

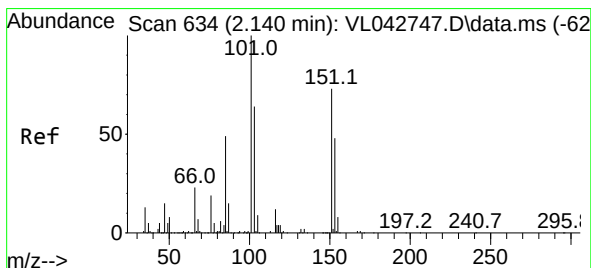
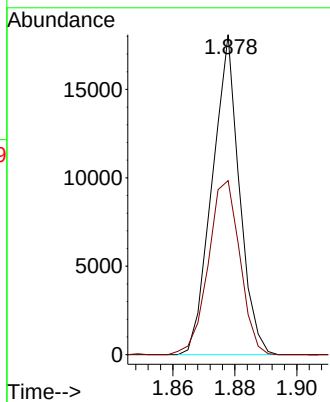
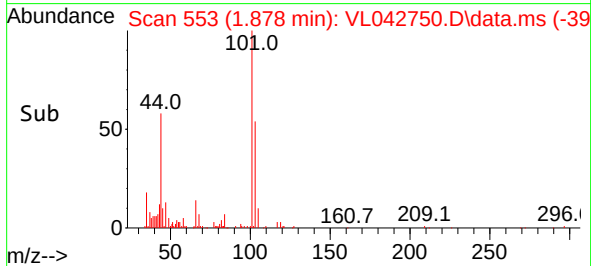
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



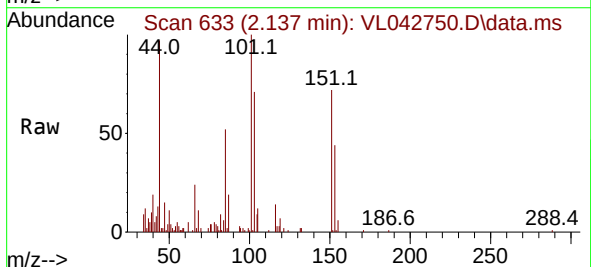
Tgt Ion:101 Resp: 1102
 Ion Ratio Lower Upper
 101 100
 103 54.4 49.6 74.4

Manual Integrations
 APPROVED

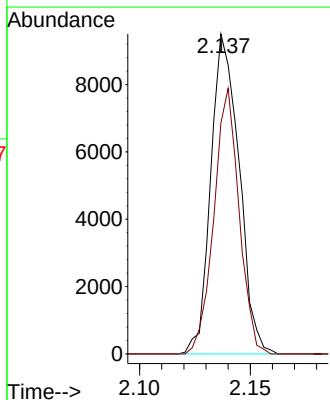
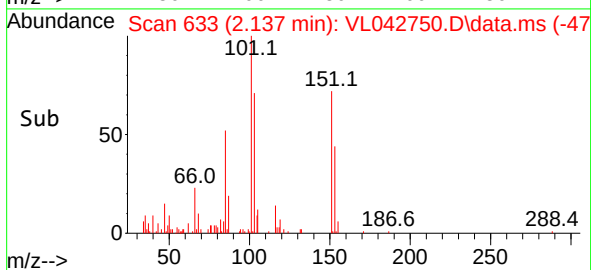
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

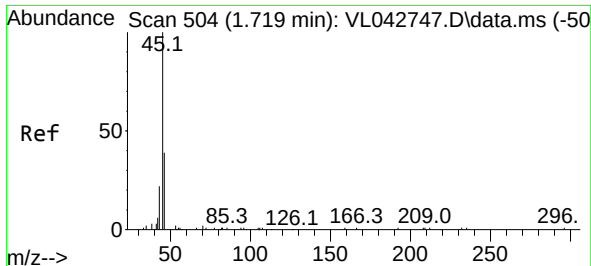


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.538 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42



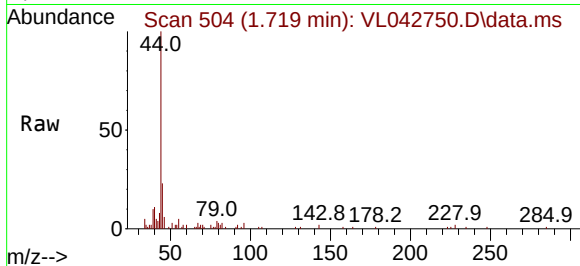
Tgt Ion:101 Resp: 8430
 Ion Ratio Lower Upper
 101 100
 151 74.0 60.5 90.7





#13
Ethanol
Concen: 0.498 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

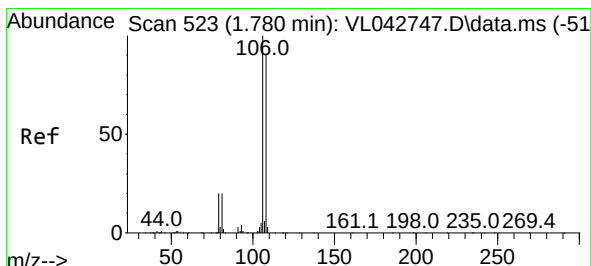
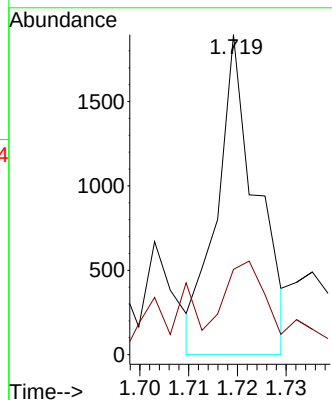
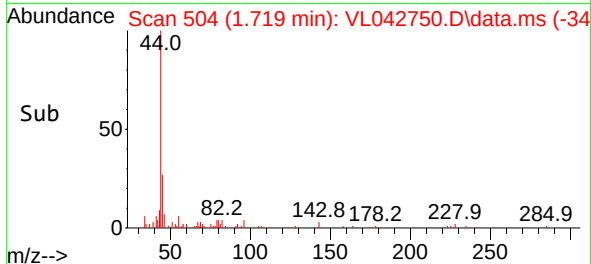
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



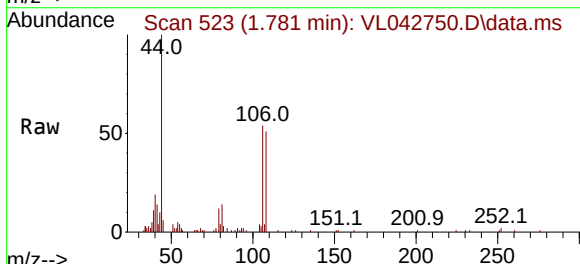
Tgt Ion: 45 Resp: 1060
Ion Ratio Lower Upper
45 100
46 81.1 17.8 71.4

Manual Integrations
APPROVED

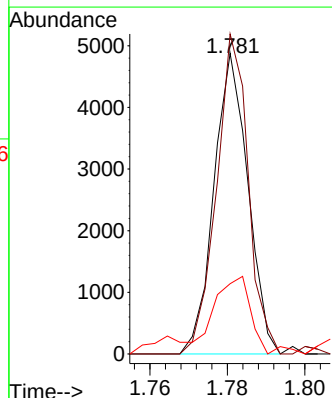
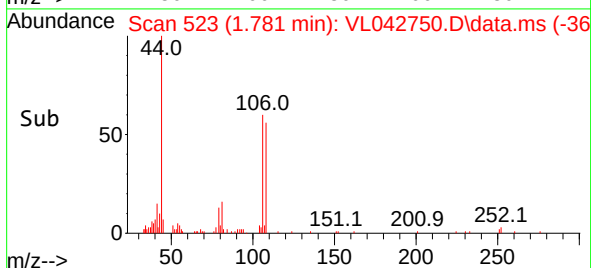
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

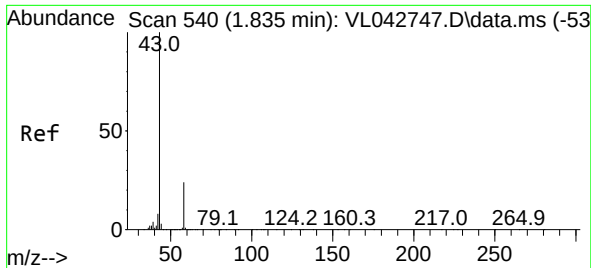


#14
Bromoethene
Concen: 0.536 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



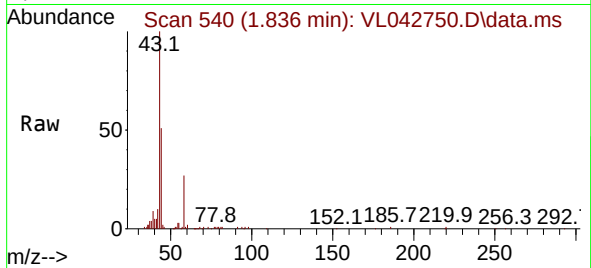
Tgt Ion:108 Resp: 2971
Ion Ratio Lower Upper
108 100
106 102.0 84.7 127.1
79 35.4 17.4 26.2





#15
Acetone
Concen: 0.671 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

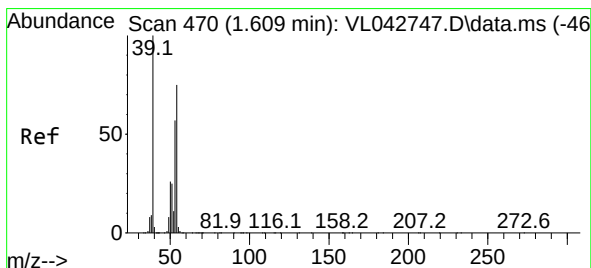
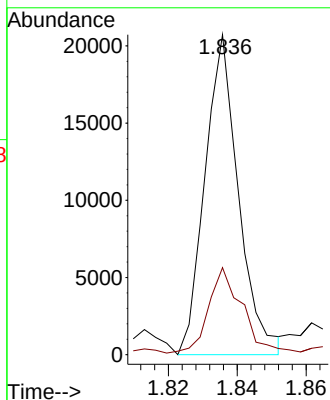
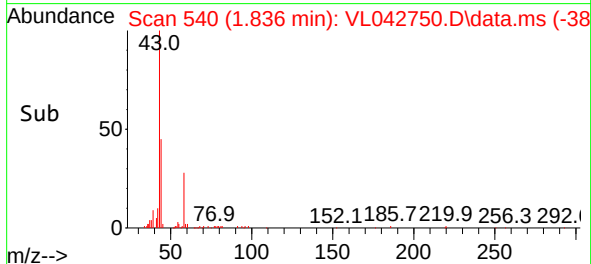
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



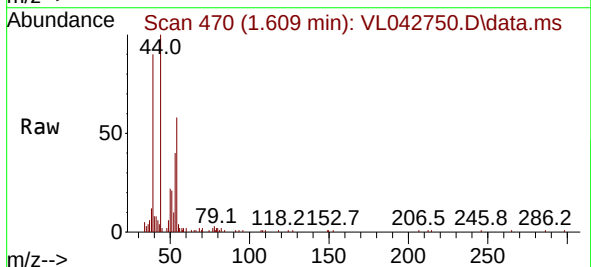
Tgt Ion: 43 Resp: 14012
Ion Ratio Lower Upper
43 100
58 30.8 19.8 29.8

Manual Integrations
APPROVED

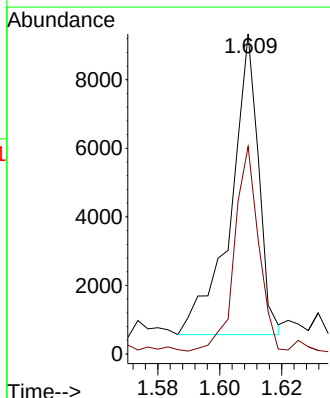
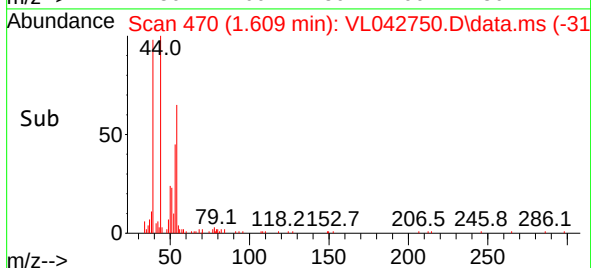
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

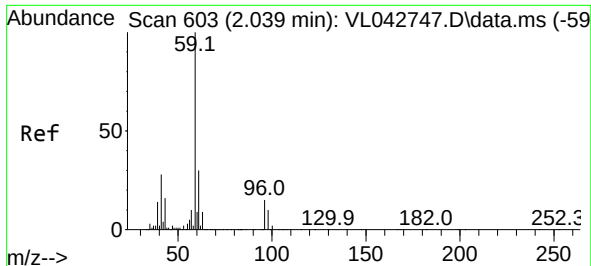


#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



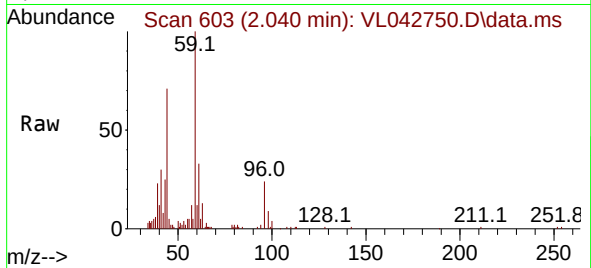
Tgt Ion: 39 Resp: 5488
Ion Ratio Lower Upper
39 100
54 67.8 54.5 81.7





#17
tert-Butyl alcohol
Concen: 0.549 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

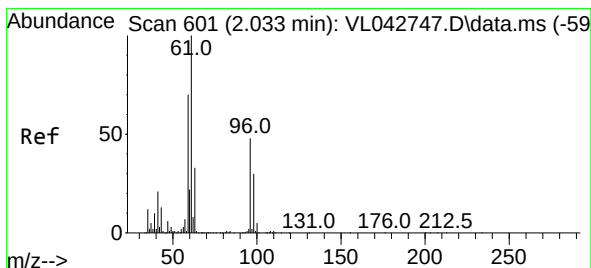
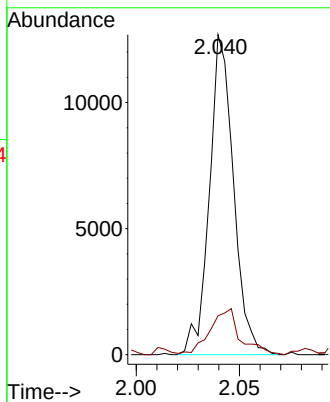
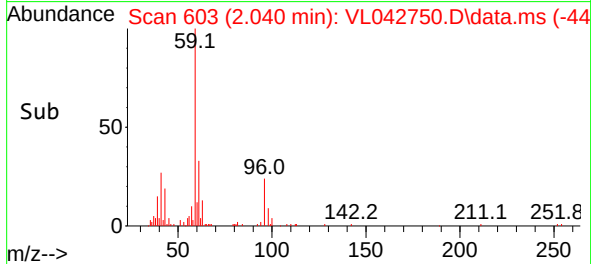
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



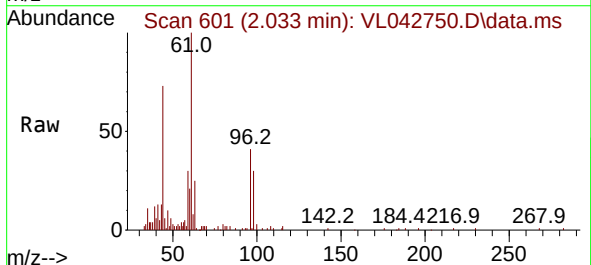
Tgt Ion: 59 Resp: 1033
Ion Ratio Lower Upper
59 100
57 19.1 8.3 12.5

Manual Integrations
APPROVED

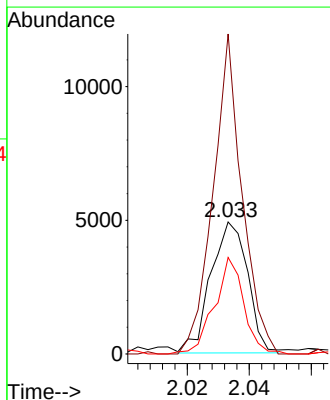
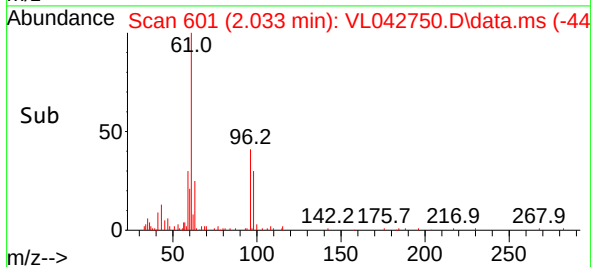
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

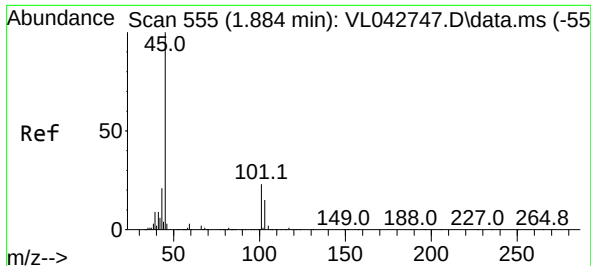


#18
1,1-Dichloroethene
Concen: 0.572 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 96 Resp: 4051
Ion Ratio Lower Upper
96 100
61 246.6 165.8 248.6
98 72.7 49.9 74.9





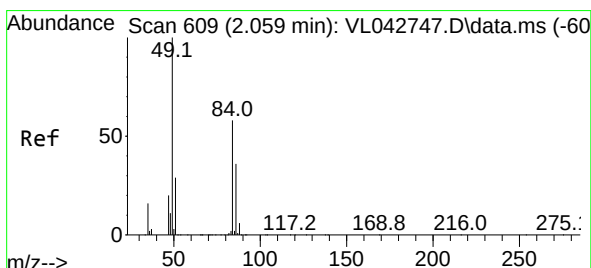
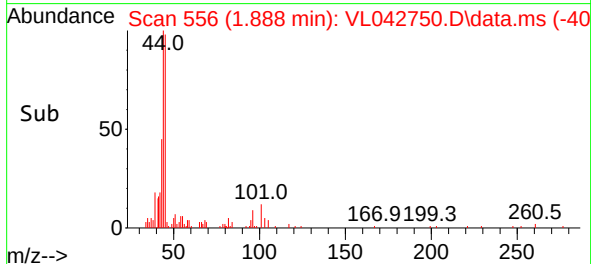
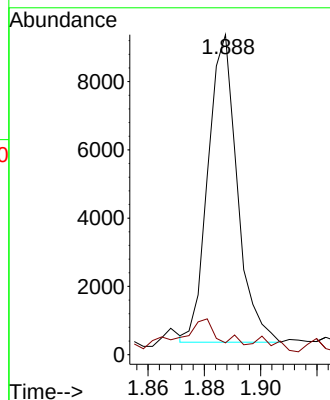
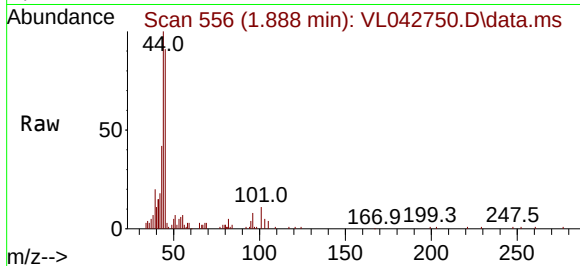
#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 6478
Ion Ratio Lower Upper
45 100
58 25.9 30.0 45.0

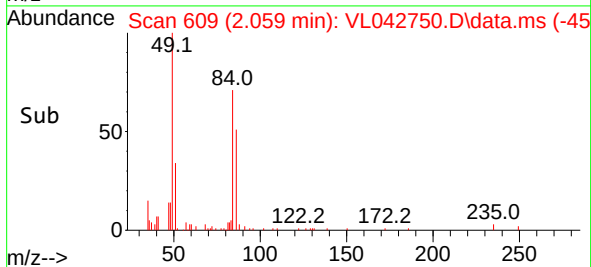
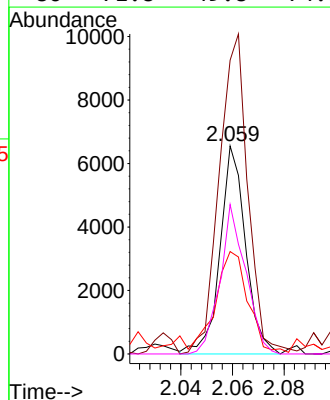
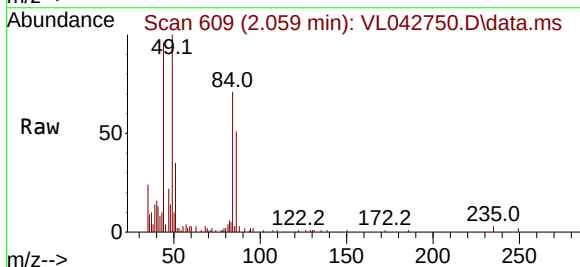
Manual Integrations
APPROVED

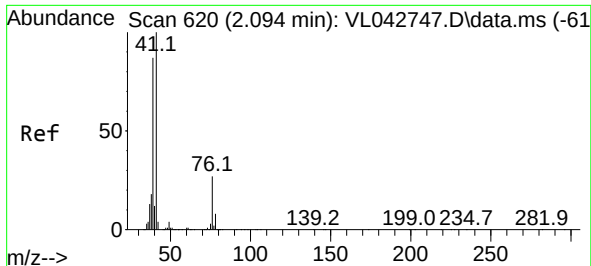
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#20
Methylene Chloride
Concen: 0.684 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

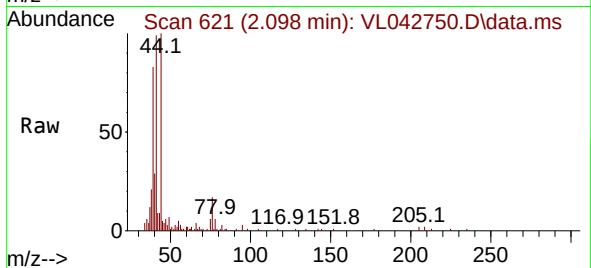
Tgt Ion: 84 Resp: 4500
Ion Ratio Lower Upper
84 100
49 141.2 138.6 208.0
51 46.8 40.6 61.0
86 71.8 49.8 74.8





#21
 Allyl Chloride
 Concen: 0.531 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

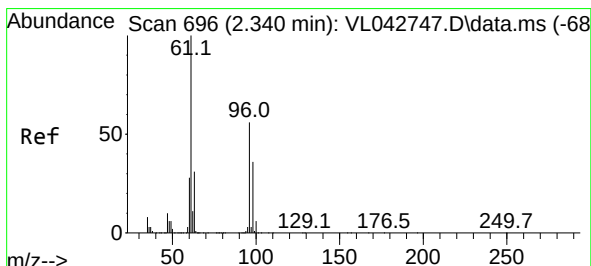
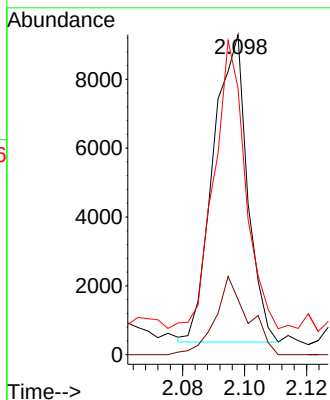
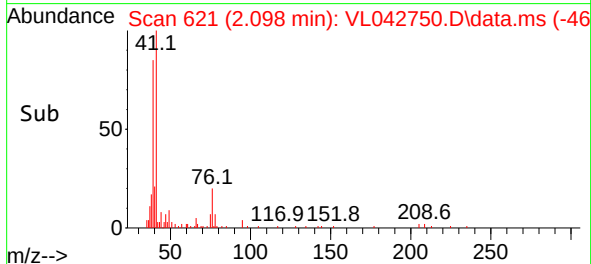
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



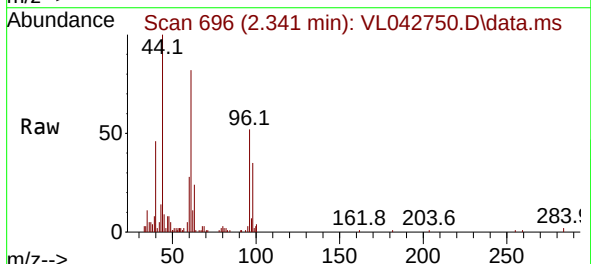
Tgt Ion: 41 Resp: 6829
 Ion Ratio Lower Upper
 41 100
 76 24.4 21.1 31.7
 39 108.8 68.3 102.5

Manual Integrations
 APPROVED

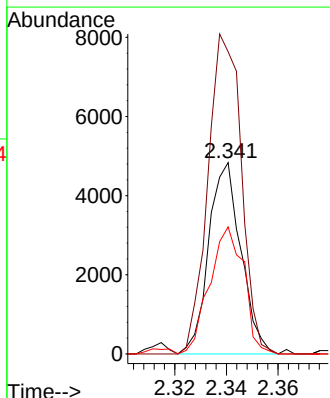
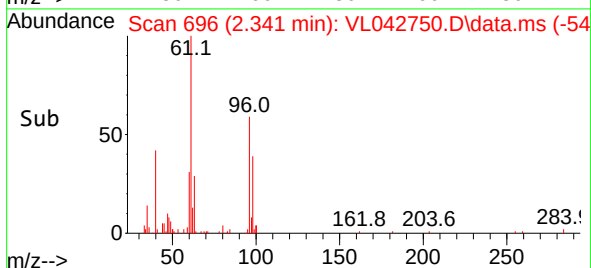
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

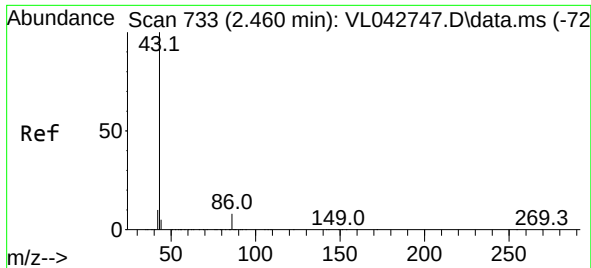


#22
 trans-1,2-Dichloroethene
 Concen: 0.551 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42



Tgt Ion: 96 Resp: 4186
 Ion Ratio Lower Upper
 96 100
 61 157.9 142.3 213.5
 98 66.4 50.6 76.0





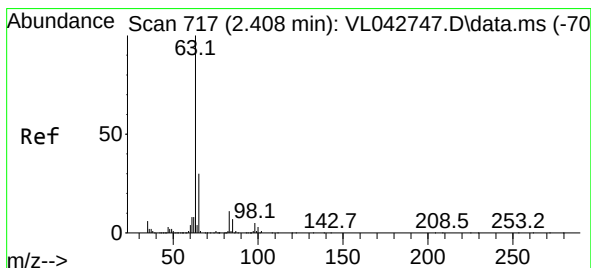
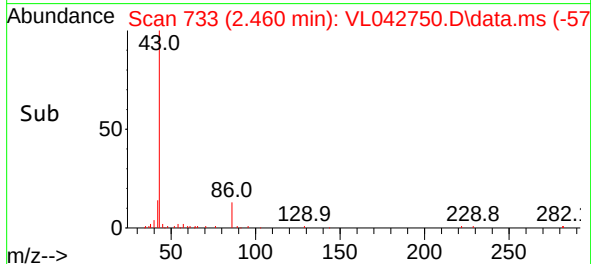
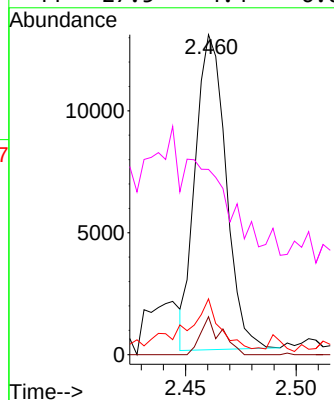
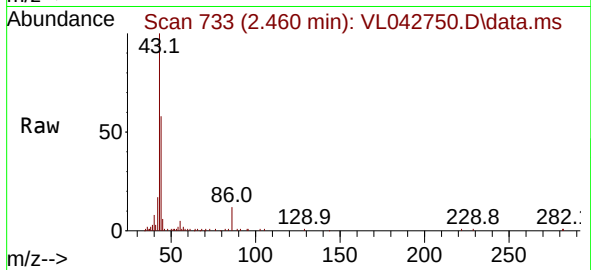
#23
 Vinyl Acetate
 Concen: 0.491 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:	43	Resp:	1242
Ion	Ratio	Lower	Upper
43	100		
86	12.1	6.1	9.1
42	13.5	7.8	11.8
44	27.5	4.4	6.6

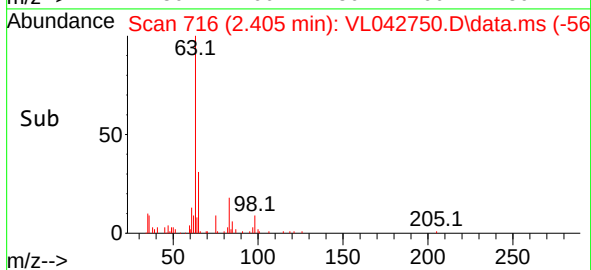
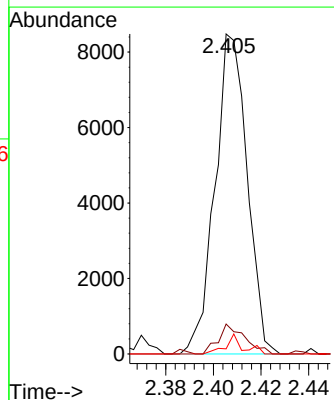
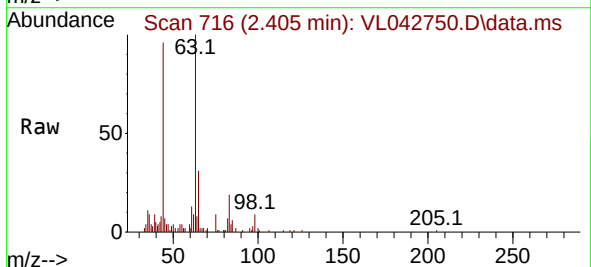
Manual Integrations
 APPROVED

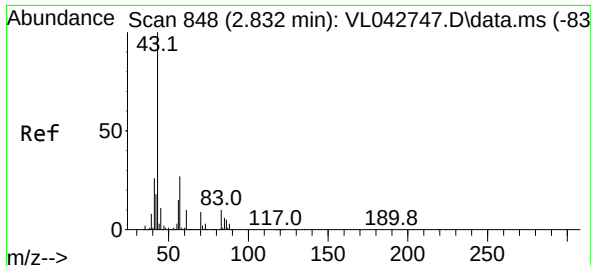
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#24
 1,1-Dichloroethane
 Concen: 0.509 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion:	63	Resp:	7962
Ion	Ratio	Lower	Upper
63	100		
98	9.4	2.5	7.4
100	2.8	1.6	4.8





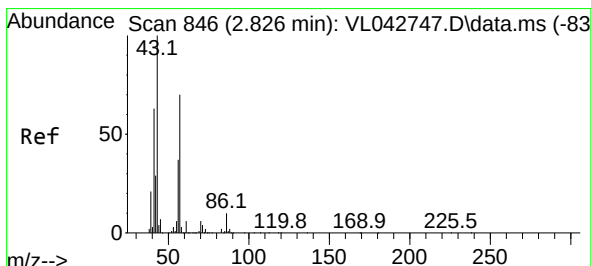
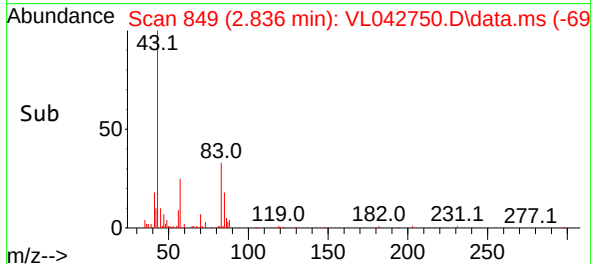
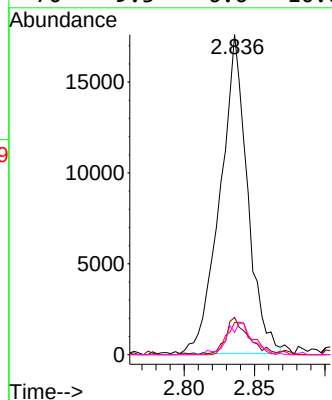
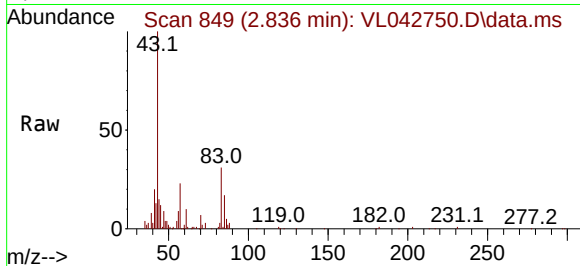
#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43	Resp: 2363
Ion Ratio	Lower Upper
43 100	
45 10.4	7.8 11.6
61 9.8	6.7 10.1
70 9.3	6.6 10.0

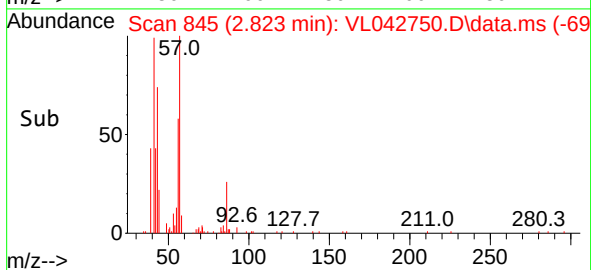
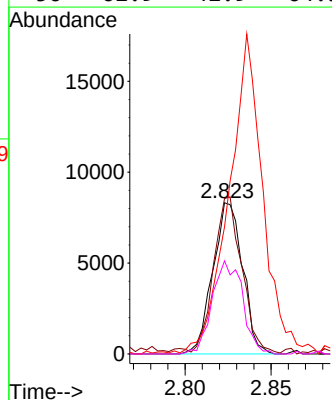
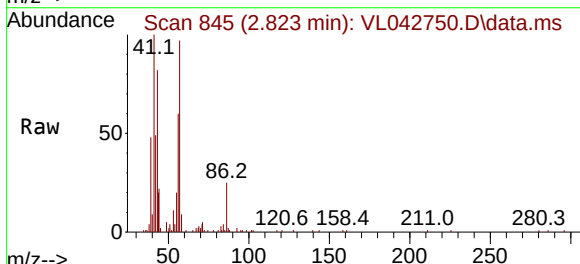
Manual Integrations
APPROVED

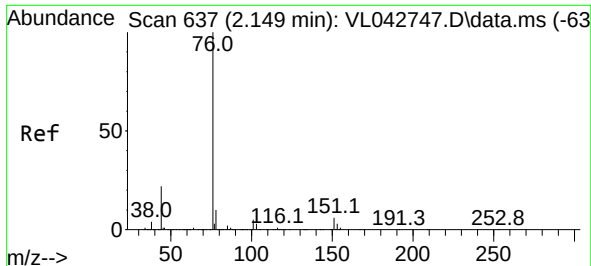
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 0.494 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

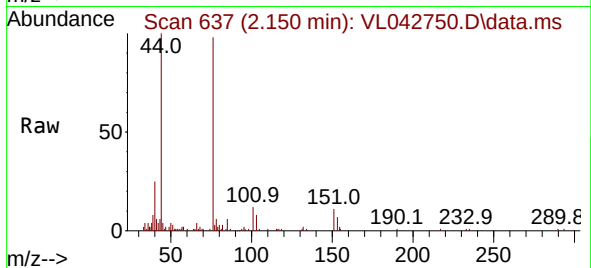
Tgt Ion: 57	Resp: 10019
Ion Ratio	Lower Upper
57 100	
41 107.1	75.4 113.2
43 244.9	185.0 277.6
56 62.9	42.9 64.3





#27
Carbon Disulfide
Concen: 0.499 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

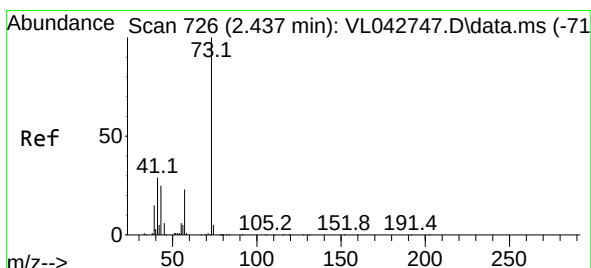
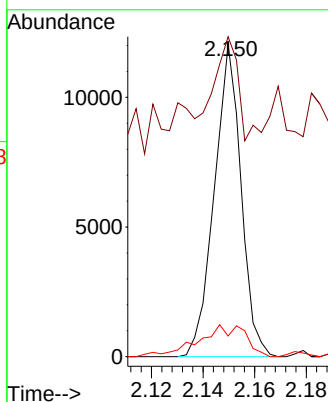
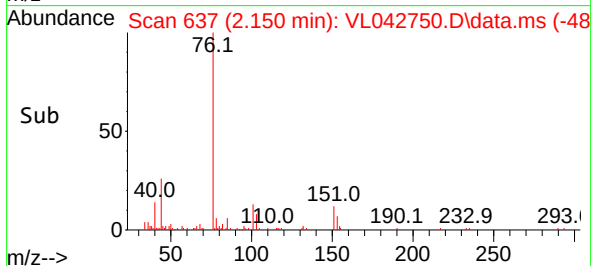
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



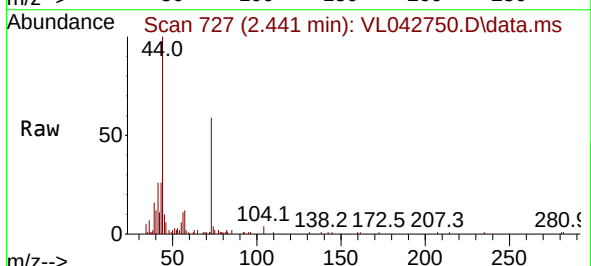
Tgt Ion: 76 Resp: 8670
Ion Ratio Lower Upper
76 100
44 203.7 19.3 28.9
78 19.1 9.9 14.9

Manual Integrations
APPROVED

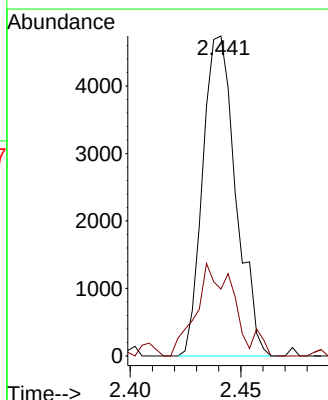
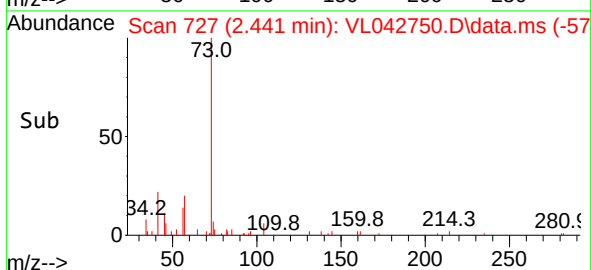
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

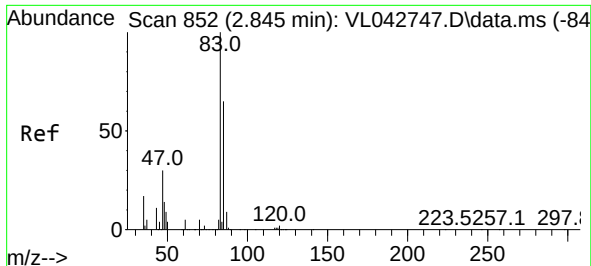


#28
Methyl tert-Butyl Ether
Concen: 0.515 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 73 Resp: 4937
Ion Ratio Lower Upper
73 100
57 35.2 19.8 29.8





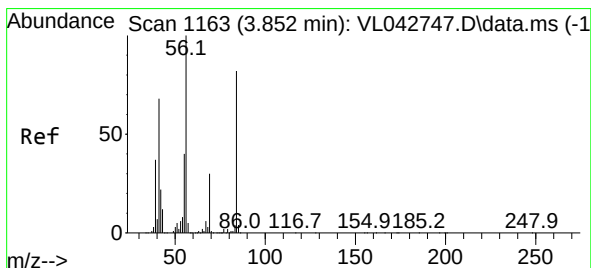
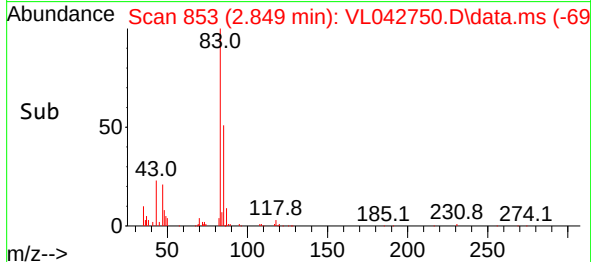
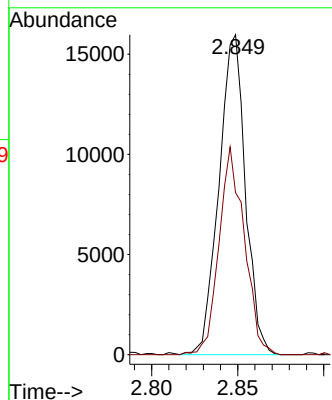
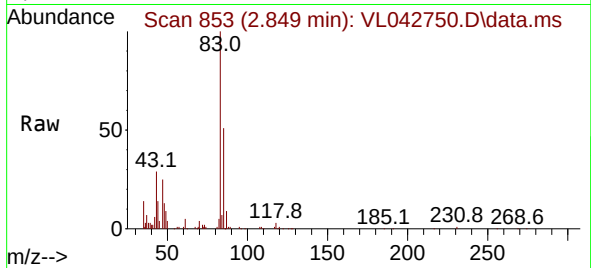
#29
Chloroform
Concen: 0.546 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 17100
Ion Ratio Lower Upper
83 100
85 50.7 52.2 78.2

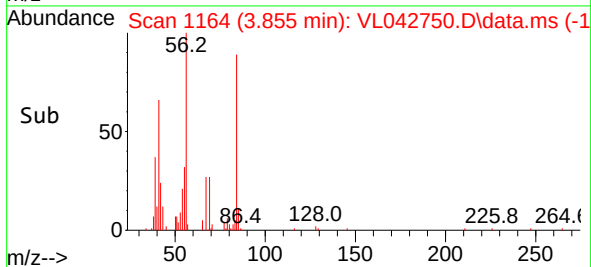
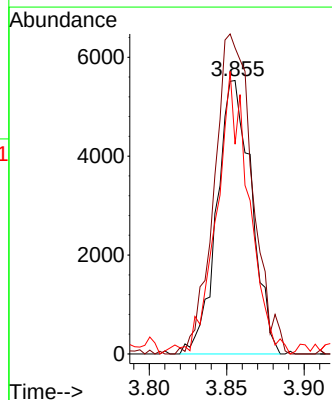
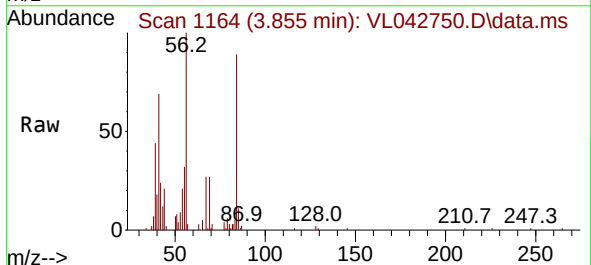
Manual Integrations
APPROVED

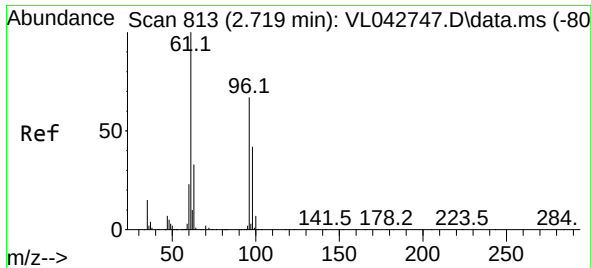
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#30
Cyclohexane
Concen: 0.500 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

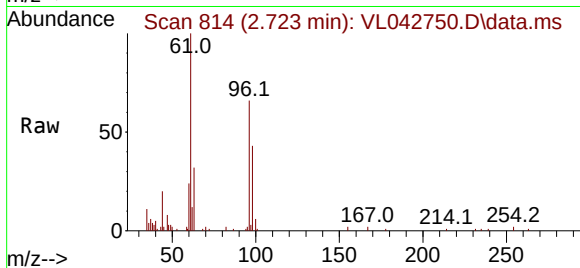
Tgt Ion: 84 Resp: 8596
Ion Ratio Lower Upper
84 100
56 129.6 97.5 146.3
41 98.8 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

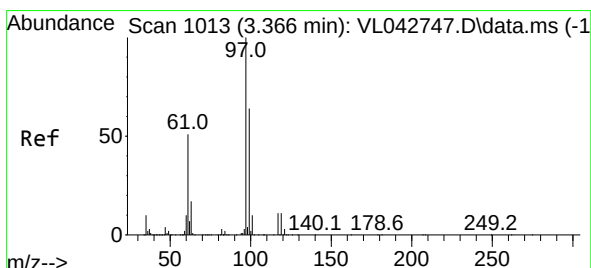
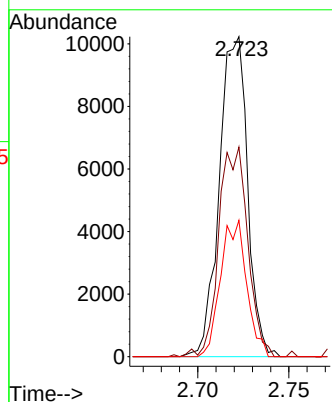
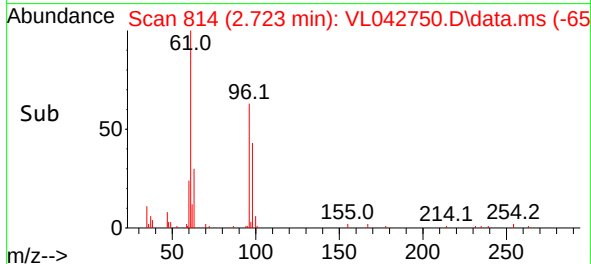
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 61 Resp: 1103
 Ion Ratio Lower Upper
 61 100
 96 65.5 53.5 80.3
 98 42.6 33.6 50.4

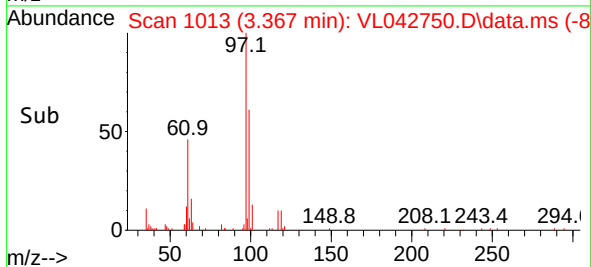
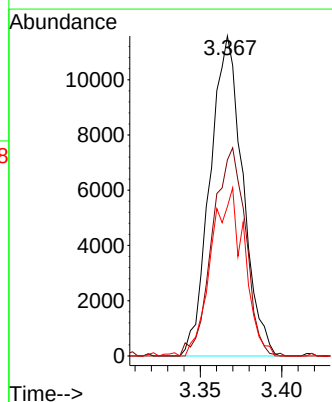
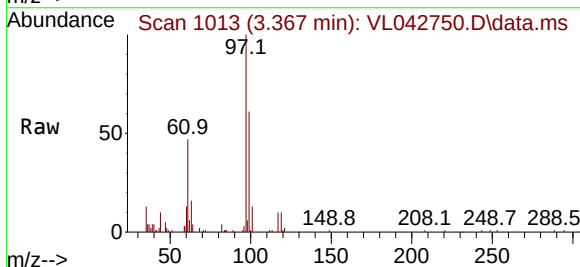
Manual Integrations
 APPROVED

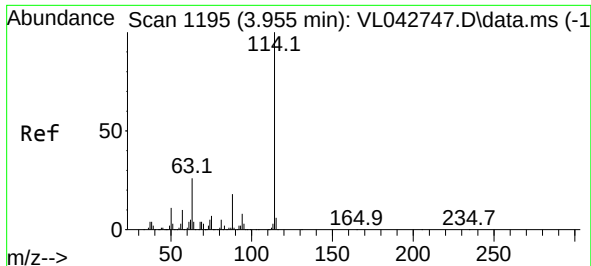
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

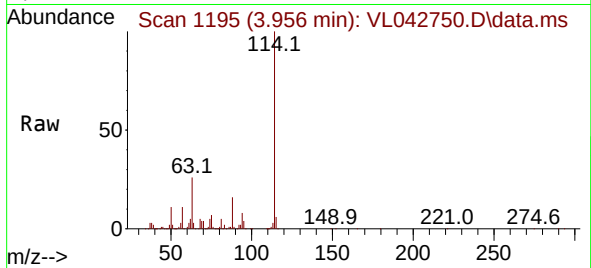
Tgt Ion: 97 Resp: 16132
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.6
 61 53.8 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

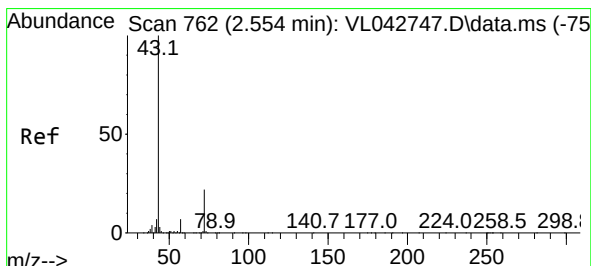
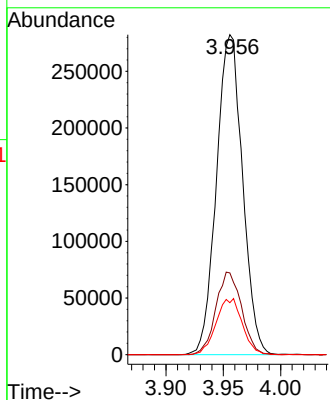
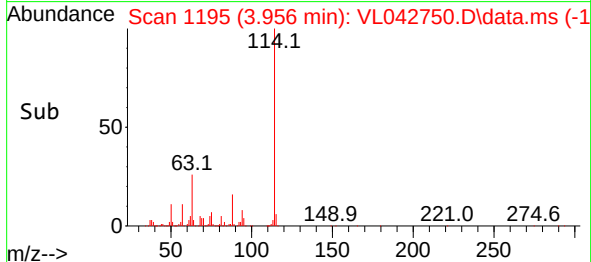
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



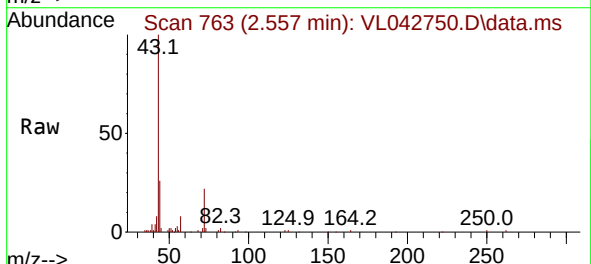
Tgt Ion:114 Resp: 446830
Ion Ratio Lower Upper
114 100
63 25.4 20.5 30.7
88 17.7 14.0 21.0

Manual Integrations
APPROVED

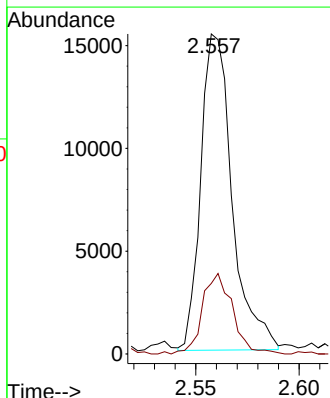
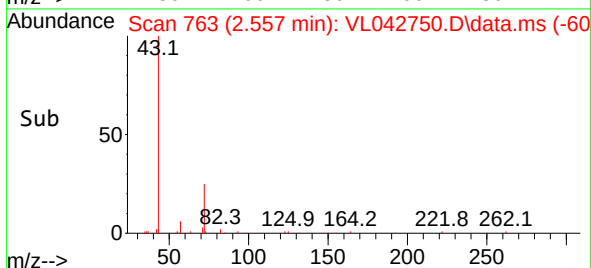
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

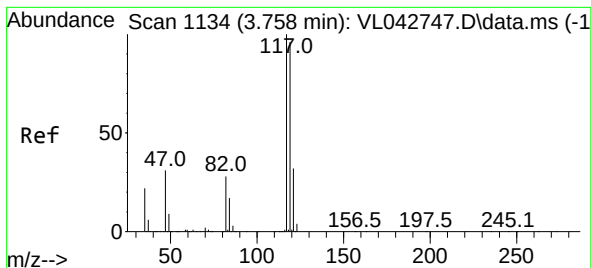


#34
2-Butanone
Concen: 0.515 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 43 Resp: 16299
Ion Ratio Lower Upper
43 100
72 24.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.458 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

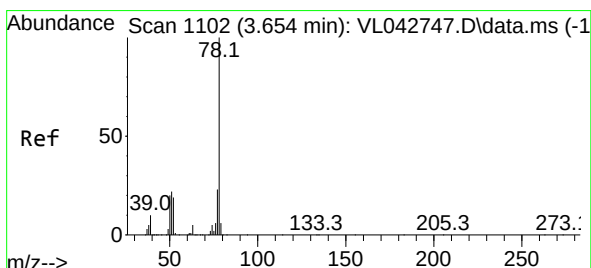
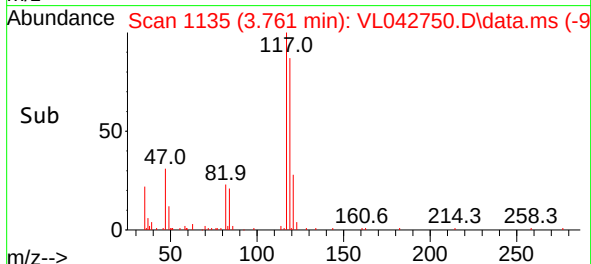
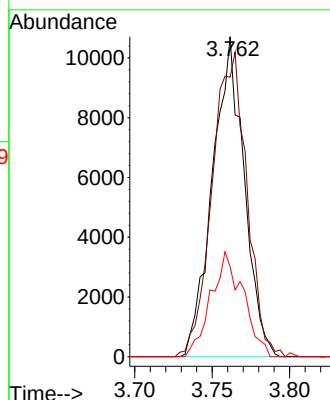
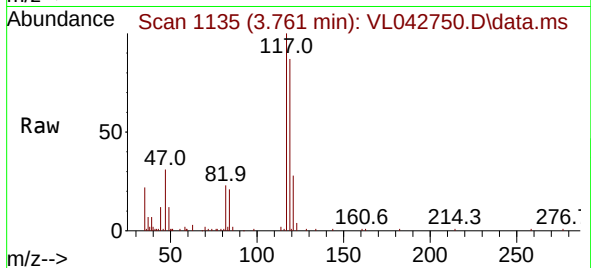
VSTDICC0.5

Tgt Ion:	117	Resp:	1520
Ion Ratio	Lower	Upper	
117	100		
119	86.0	77.1	115.7
121	28.2	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36

Benzene

Concen: 0.515 ppbv

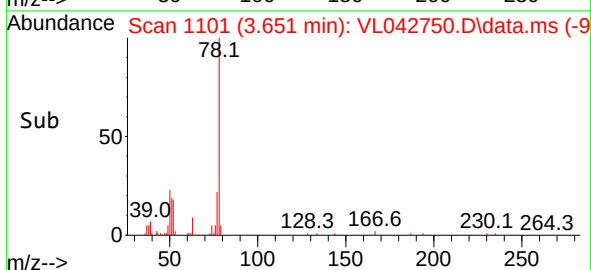
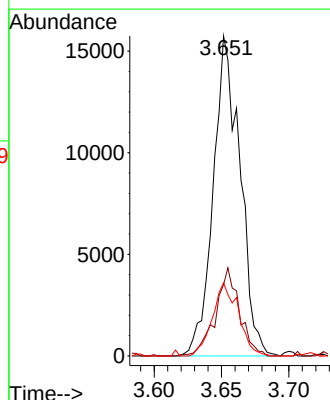
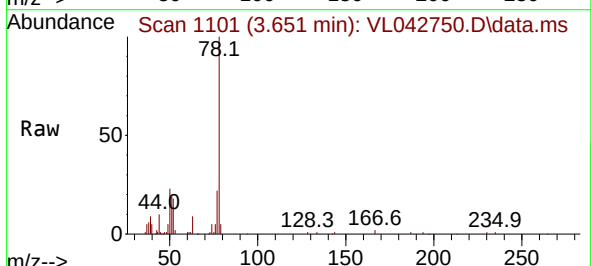
RT: 3.651 min Scan# 1101

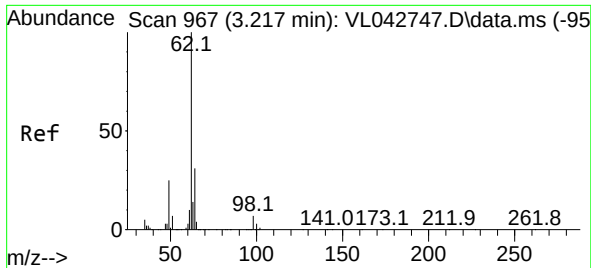
Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:	78	Resp:	21800
Ion Ratio	Lower	Upper	
78	100		
77	22.3	18.5	27.7
50	22.8	16.2	24.2





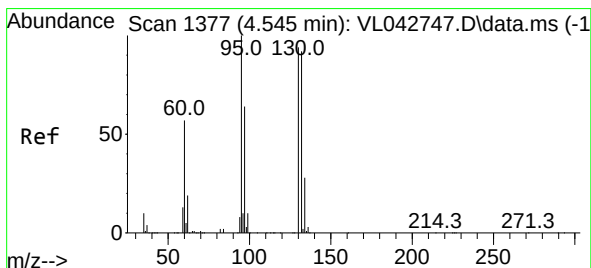
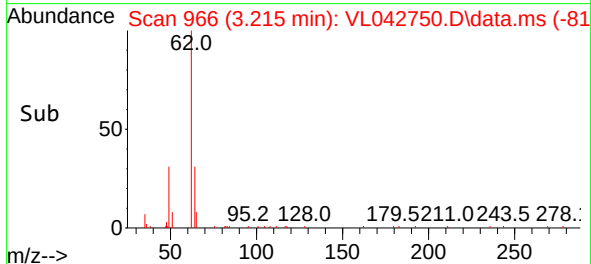
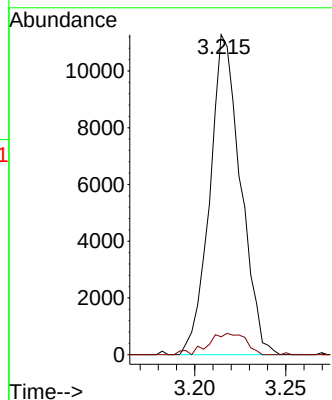
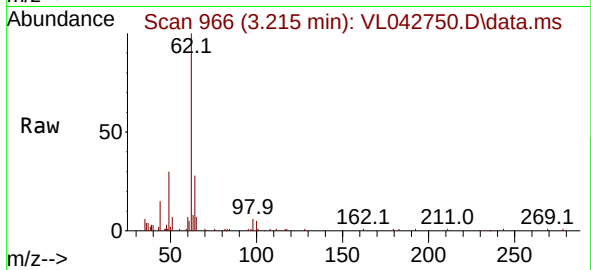
#37
1,2-Dichloroethane
Concen: 0.521 ppbv
RT: 3.215 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 1329
Ion Ratio Lower Upper
62 100
98 8.3 5.2 7.8

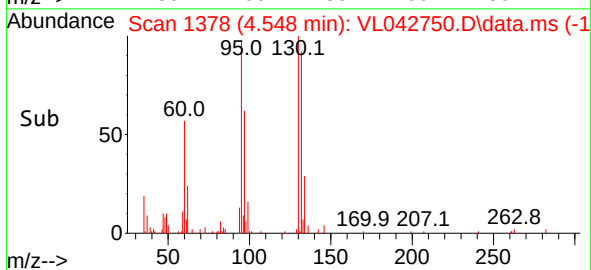
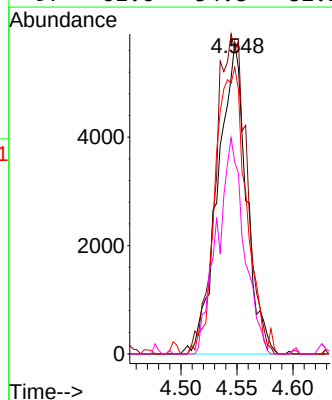
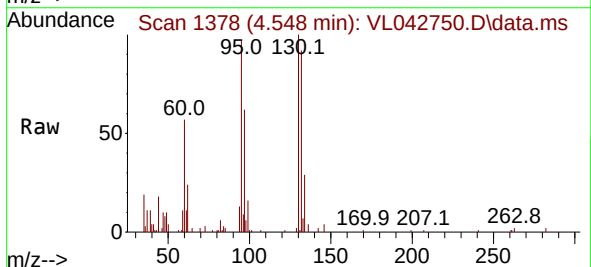
Manual Integrations
APPROVED

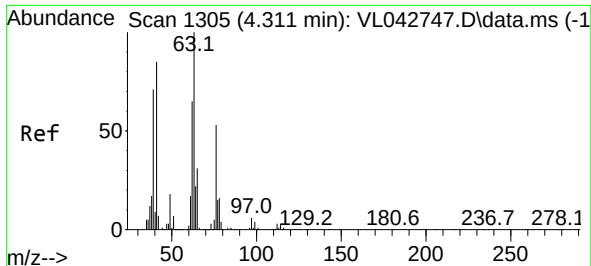
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 0.494 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:130 Resp: 10097
Ion Ratio Lower Upper
130 100
95 97.3 85.4 128.2
132 92.1 78.2 117.2
97 61.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 0.530 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042750.D

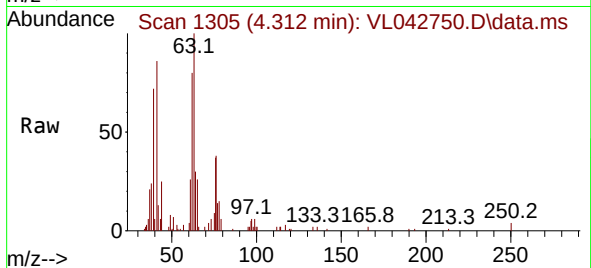
Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



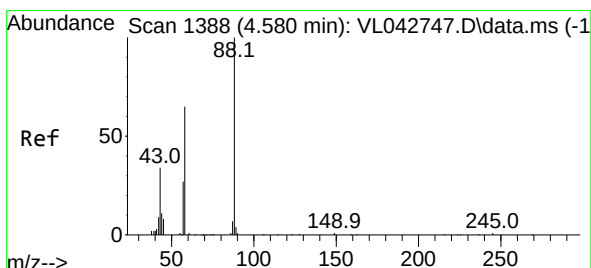
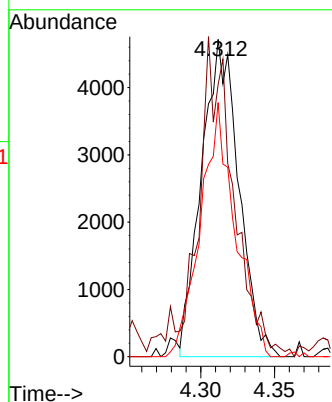
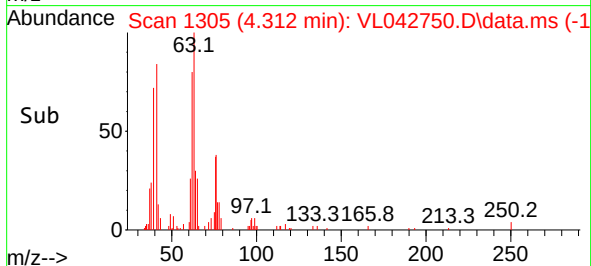
Tgt Ion:	63	Resp:	829
Ion Ratio	Lower	Upper	
63	100		
41	83.1	68.2	102.4
62	80.1	52.0	78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 0.538 ppbv m

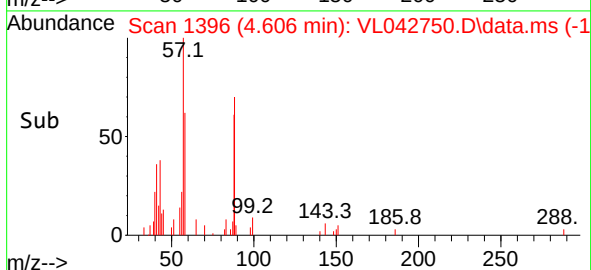
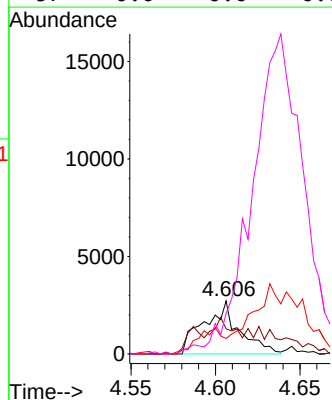
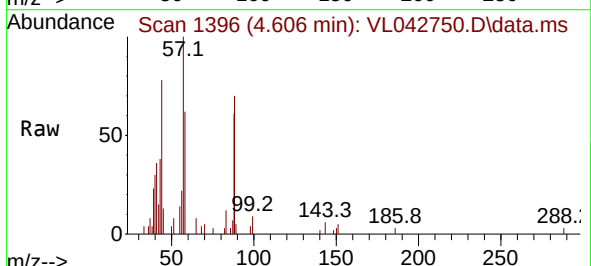
RT: 4.606 min Scan# 1396

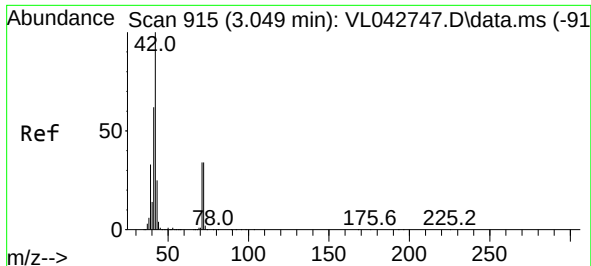
Delta R.T. 0.026 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

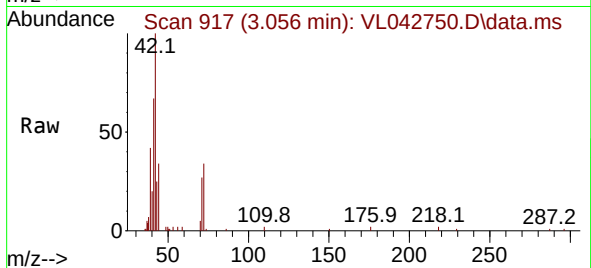
Tgt Ion:	88	Resp:	3963
Ion Ratio	Lower	Upper	
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 0.507 ppbv m
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

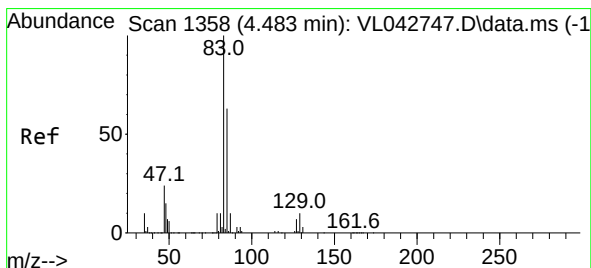
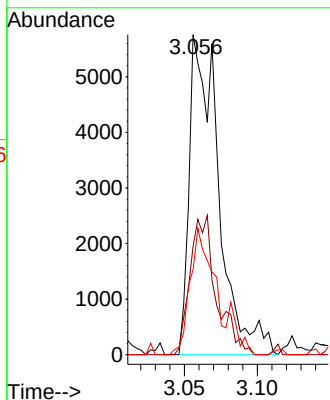
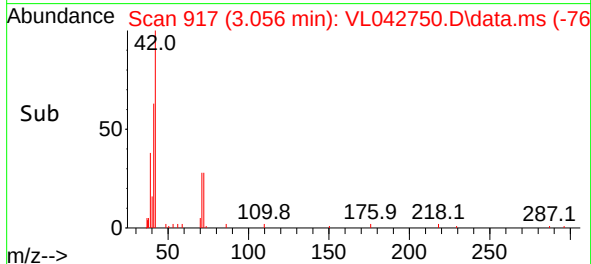
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



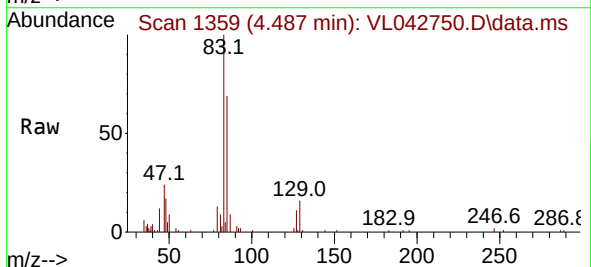
Tgt Ion: 42 Resp: 8064
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3
71 37.6 28.6 43.0

Manual Integrations
APPROVED

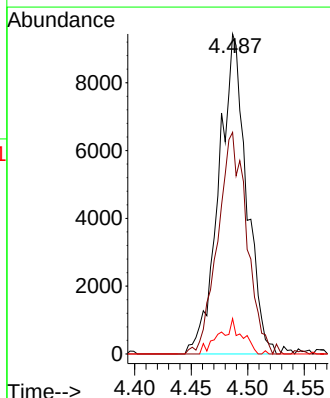
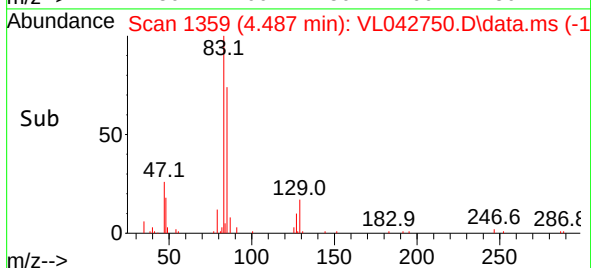
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

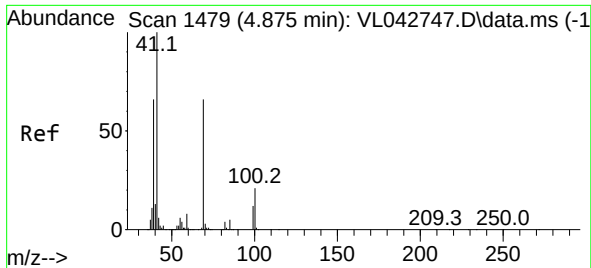


#42
Bromodichloromethane
Concen: 0.484 ppbv m
RT: 4.487 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 83 Resp: 16080
Ion Ratio Lower Upper
83 100
85 69.3 50.2 75.4
127 11.1 5.4 8.2





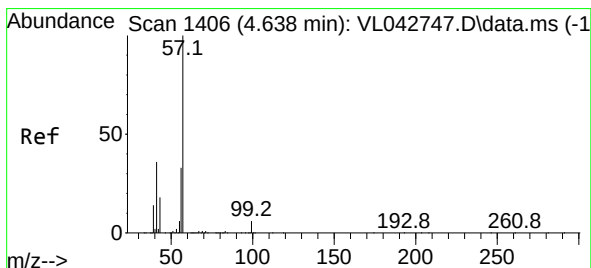
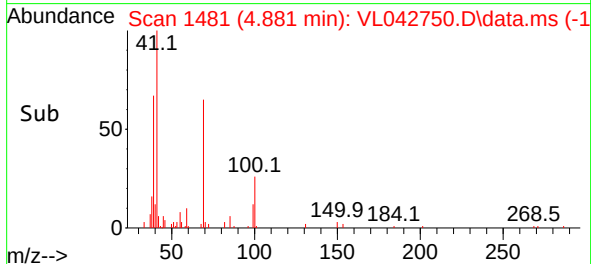
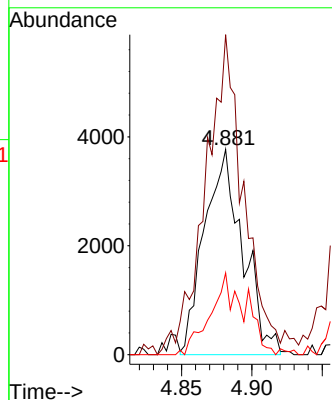
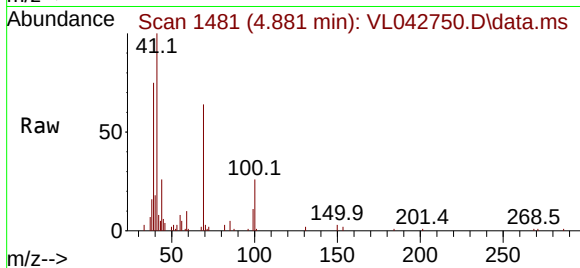
#43
Methyl Methacrylate
Concen: 0.476 ppbv m
RT: 4.881 min Scan# 1479
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 7162
Ion Ratio Lower Upper
69 100
41 155.0 125.7 188.5
100 36.5 28.6 42.8

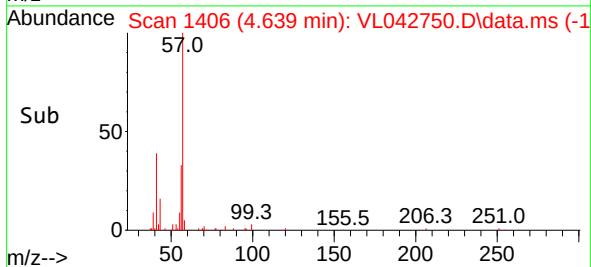
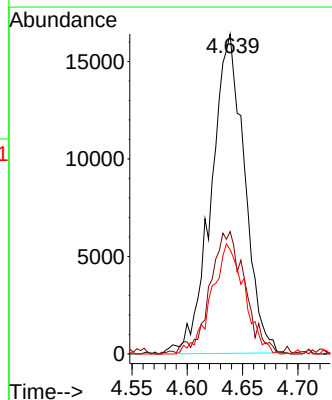
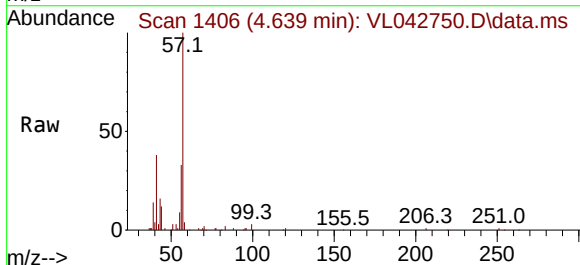
Manual Integrations
APPROVED

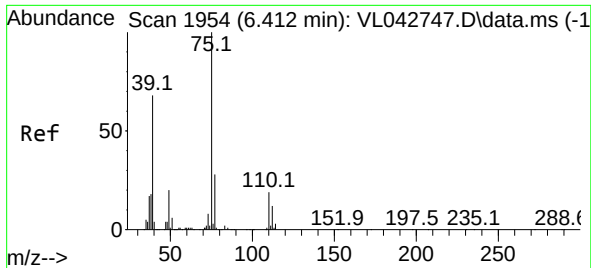
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#44
2,2,4-Trimethylpentane
Concen: 0.490 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 33853
Ion Ratio Lower Upper
57 100
41 41.3 28.3 42.5
56 34.7 25.8 38.6





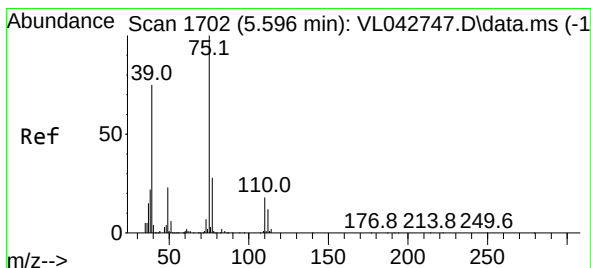
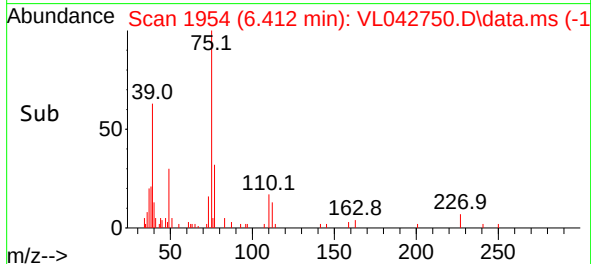
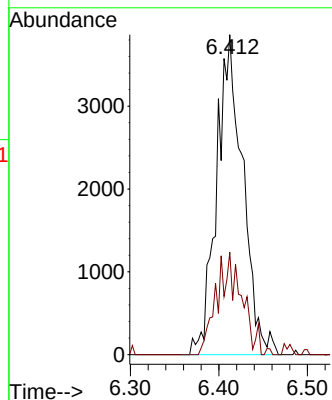
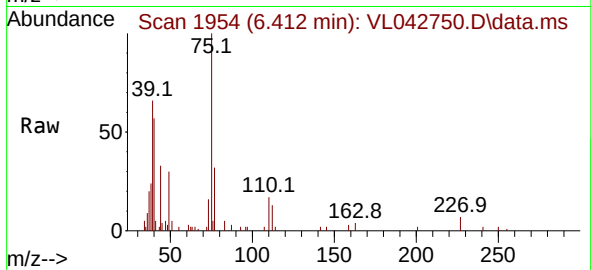
#45
t-1,3-Dichloropropene
Concen: 0.472 ppbv m
RT: 6.412 min Scan# 1954
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 7968
Ion Ratio Lower Upper
75 100
77 32.0 22.4 33.6

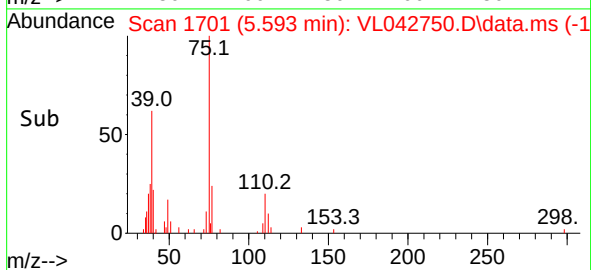
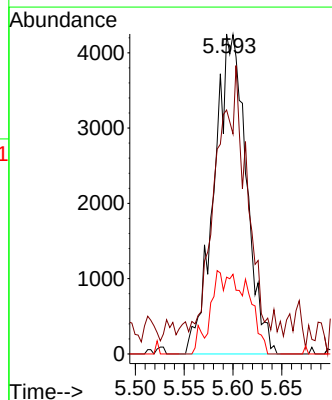
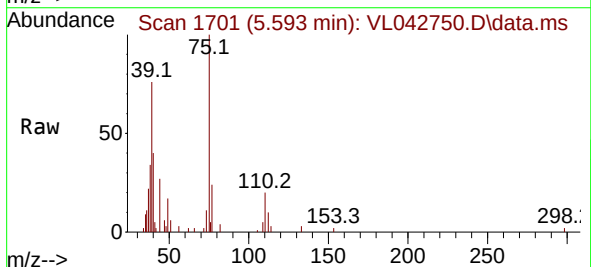
Manual Integrations
APPROVED

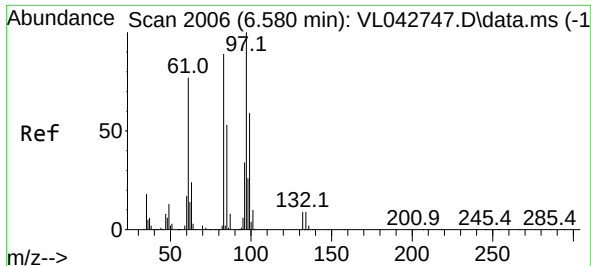
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 0.454 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

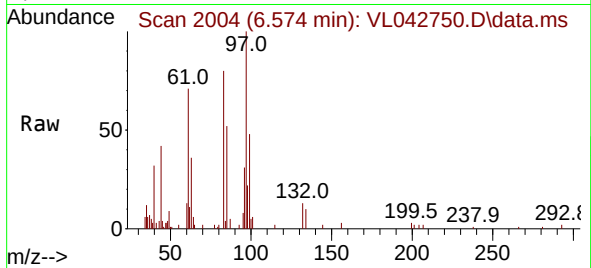
Tgt Ion: 75 Resp: 9709
Ion Ratio Lower Upper
75 100
39 76.3 60.2 90.2
77 24.0 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 0.527 ppbv m
RT: 6.574 min Scan# 2006
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

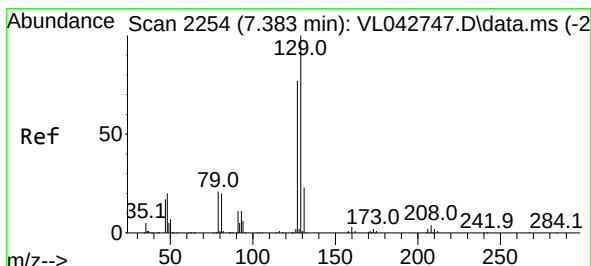
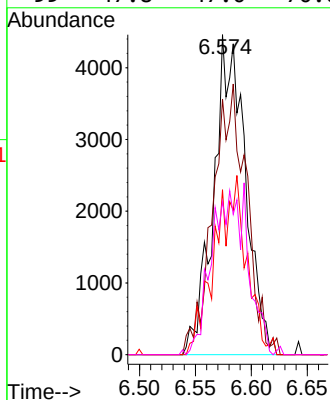
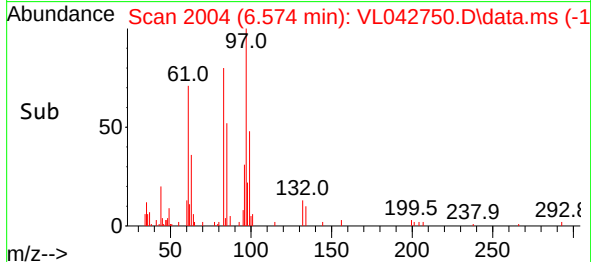
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 97 Resp: 878
Ion Ratio Lower Upper
97 100
83 79.9 71.1 106.7
85 51.6 43.0 64.4
99 47.8 47.0 70.6

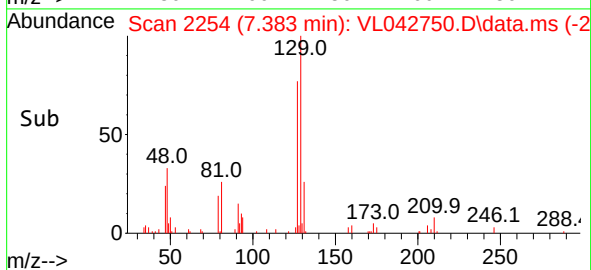
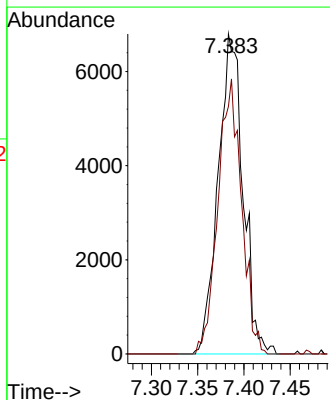
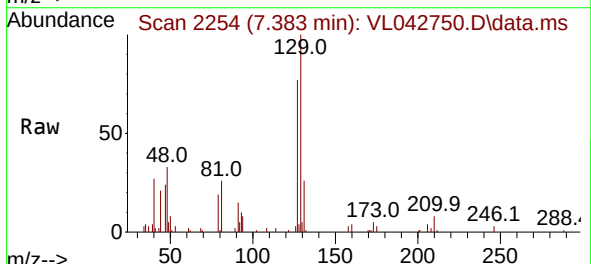
Manual Integrations
APPROVED

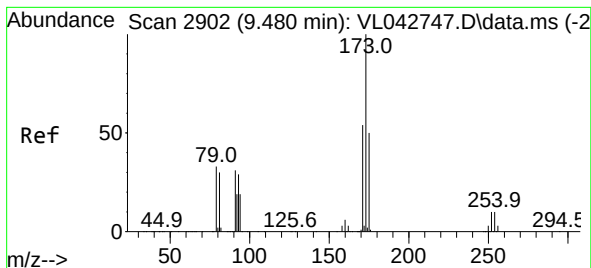
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#48
Dibromochloromethane
Concen: 0.481 ppbv m
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:129 Resp: 12723
Ion Ratio Lower Upper
129 100
127 81.4 38.7 116.1





#49

Bromoform

Concen: 0.468 ppbv

RT: 9.481 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

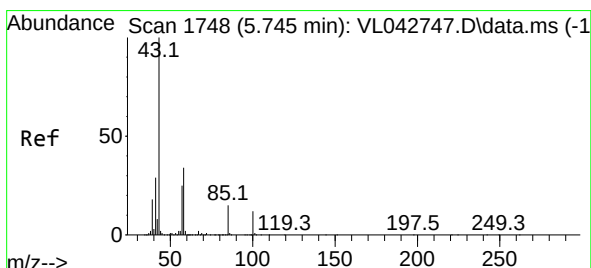
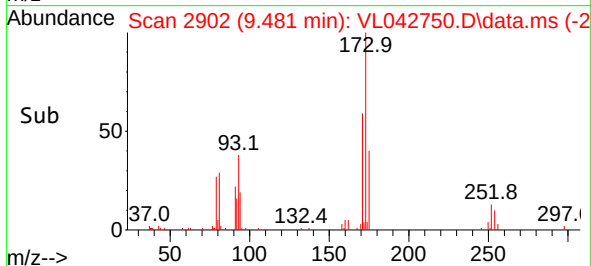
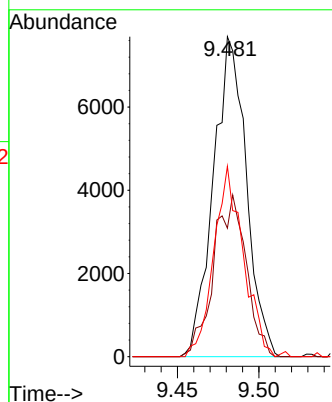
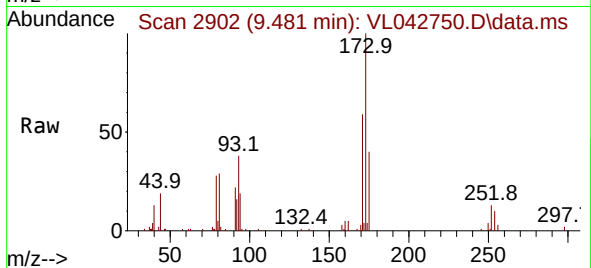
VSTDICC0.5

Tgt Ion:	173	Resp:	1080
Ion Ratio	Lower	Upper	
173	100		
175	50.1	38.4	57.6
171	53.7	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 0.486 ppbv m

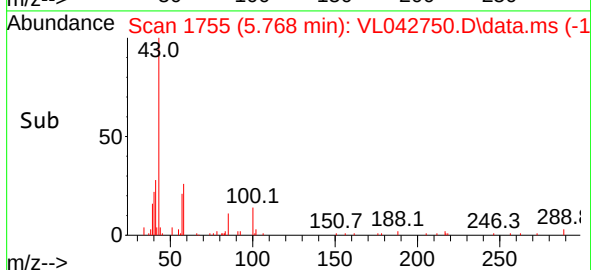
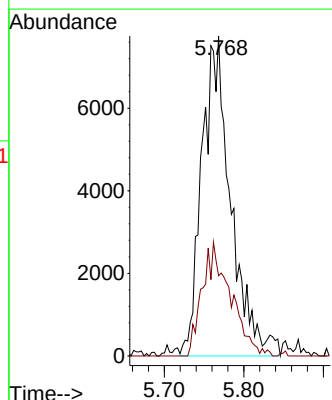
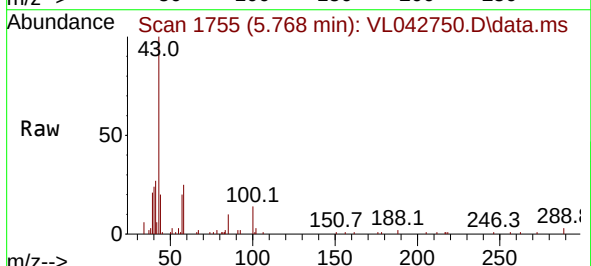
RT: 5.768 min Scan# 1755

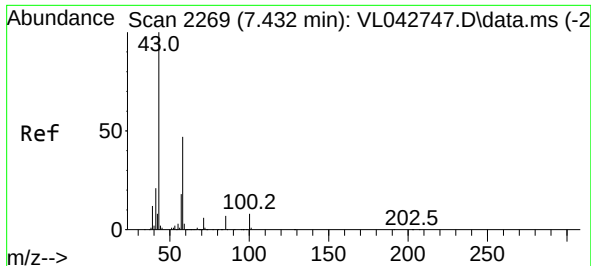
Delta R.T. 0.023 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:	43	Resp:	19575
Ion Ratio	Lower	Upper	
43	100		
58	0.0	27.8	41.8





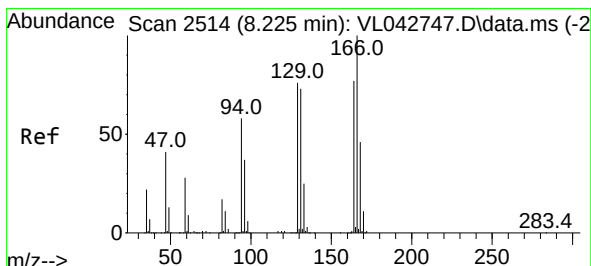
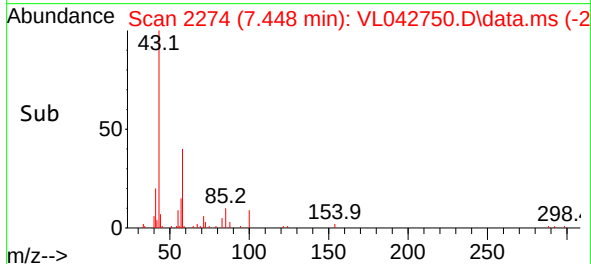
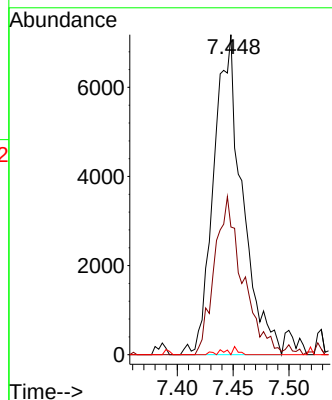
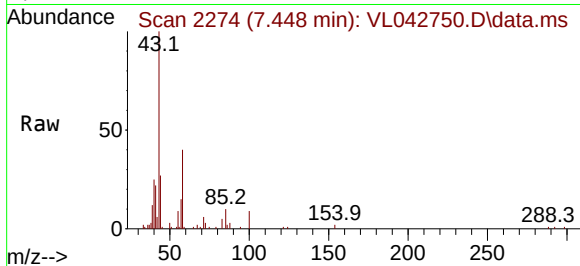
#51
2-Hexanone
Concen: 0.416 ppbv m
RT: 7.448 min Scan# 2121
Delta R.T. 0.016 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 1281
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0
98 0.0 0.2 0.4

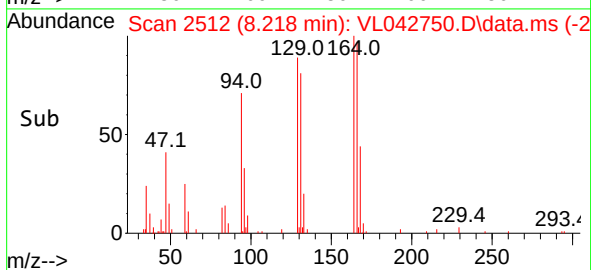
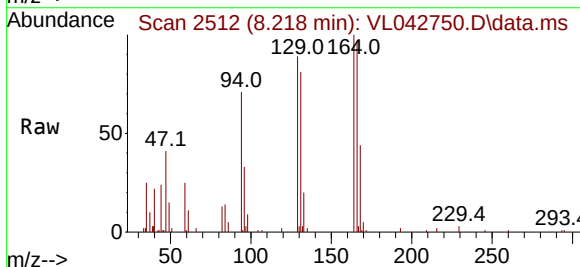
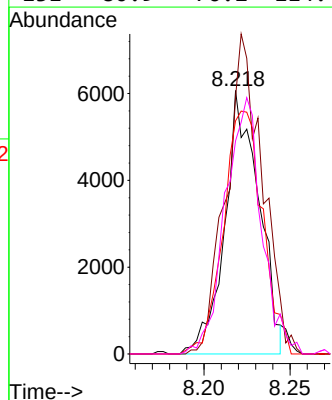
Manual Integrations
APPROVED

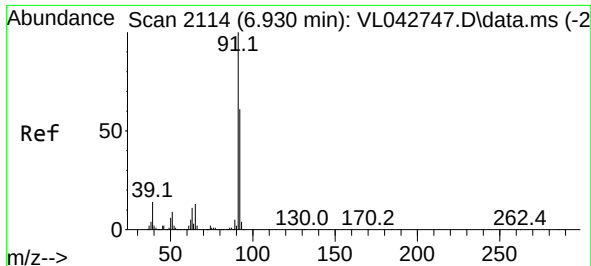
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Tetrachloroethene
Concen: 0.475 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:164 Resp: 8359
Ion Ratio Lower Upper
164 100
166 97.5 104.0 156.0
129 88.5 79.2 118.8
131 80.9 76.2 114.4





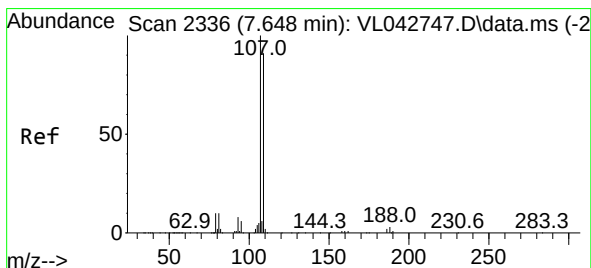
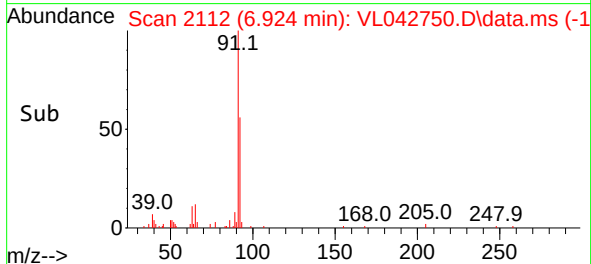
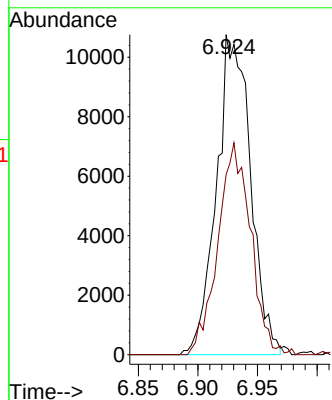
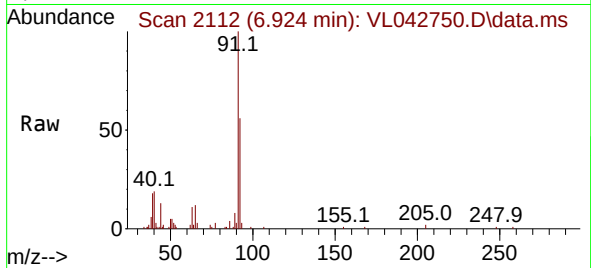
#53
Toluene
Concen: 0.469 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 21324
Ion Ratio Lower Upper
91 100
92 63.9 48.0 72.0

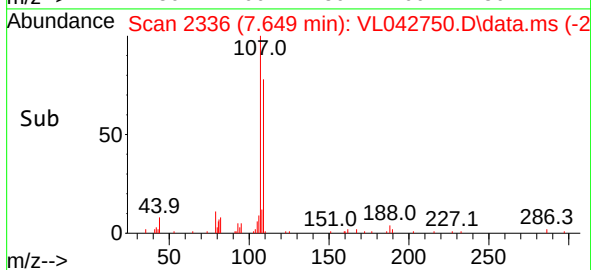
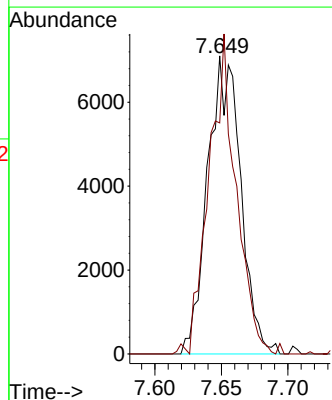
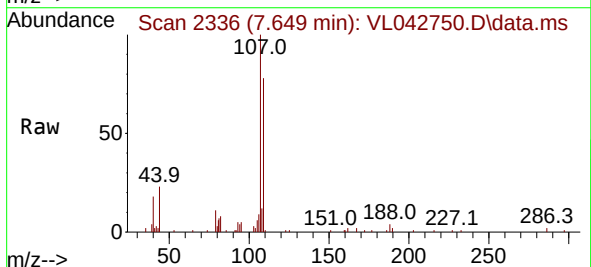
Manual Integrations
APPROVED

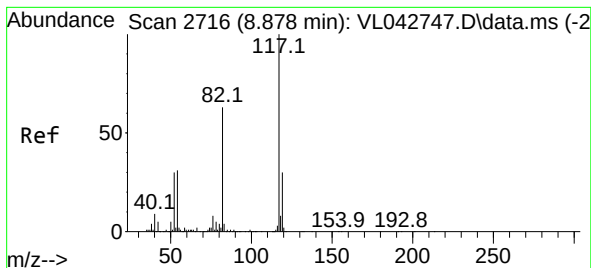
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 0.521 ppbv m
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:107 Resp: 12294
Ion Ratio Lower Upper
107 100
109 77.5 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

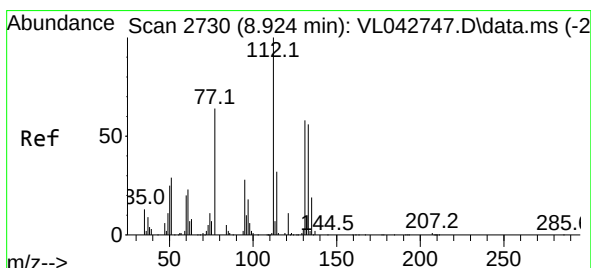
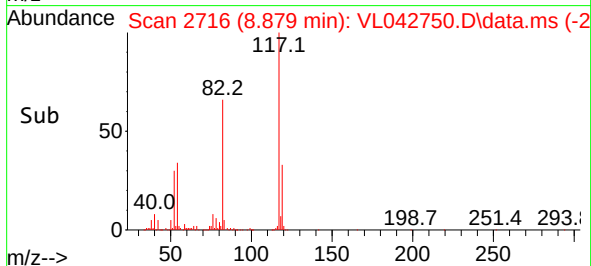
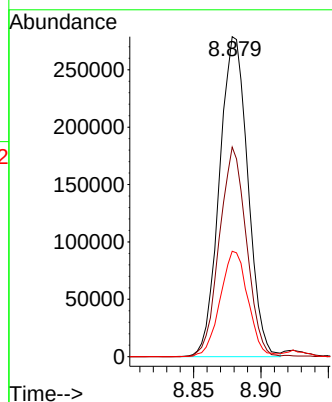
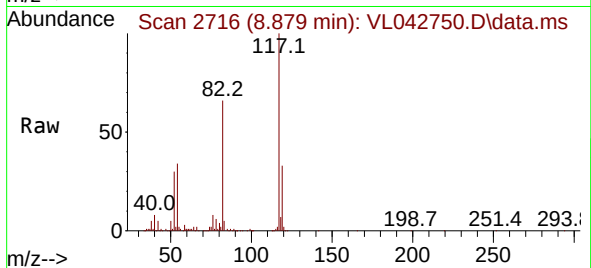
Tgt Ion:117 Resp: 408620

Ion	Ratio	Lower	Upper
117	100		
82	62.7	53.3	79.9
119	32.3	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.527 ppbv

RT: 8.924 min Scan# 2730

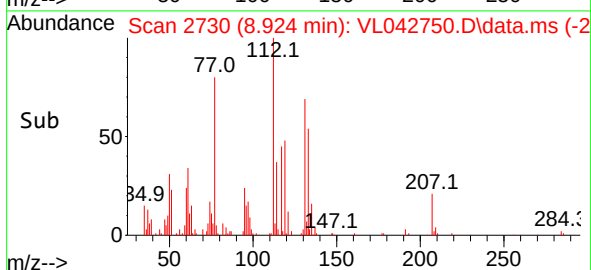
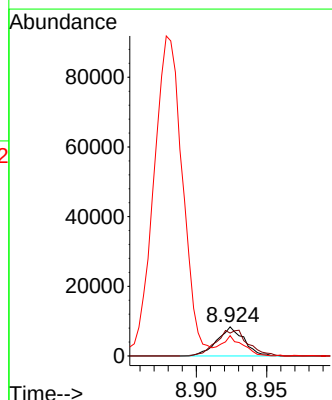
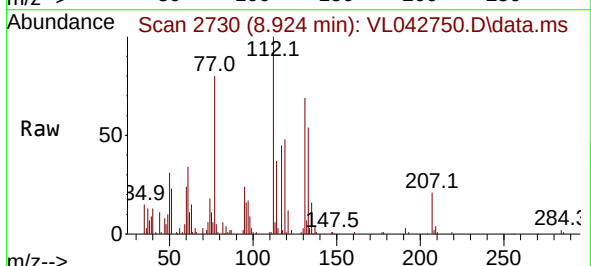
Delta R.T. 0.000 min

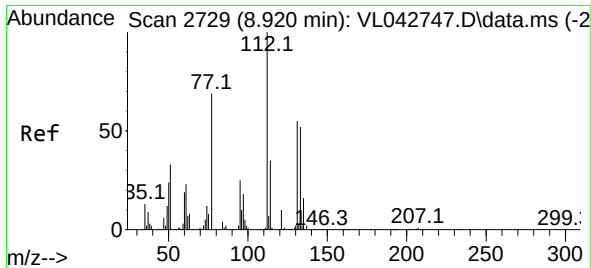
Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:131 Resp: 11191

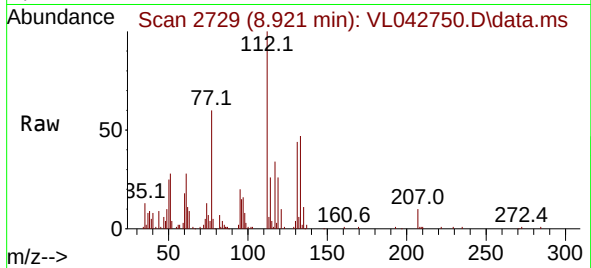
Ion	Ratio	Lower	Upper
131	100		
133	104.0	76.8	115.2
119	1231.3	49.7	74.5#





#57
Chlorobenzene
Concen: 0.527 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

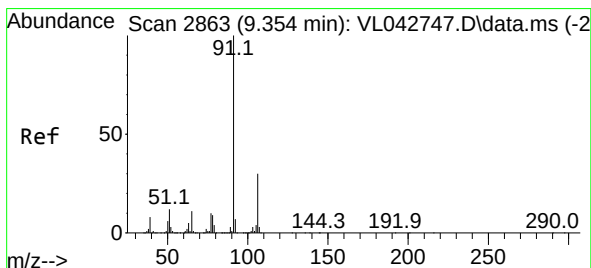
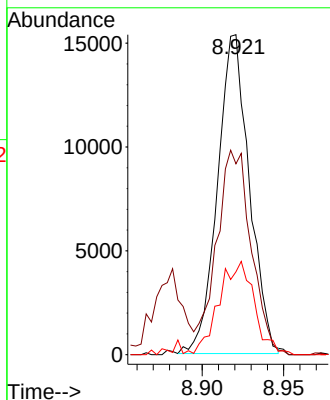
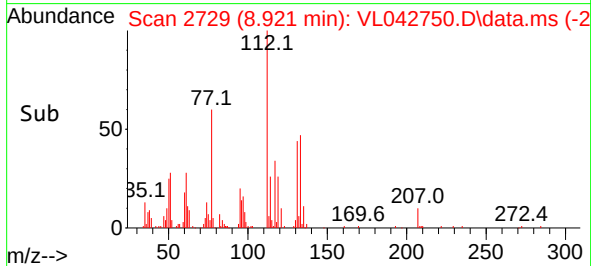
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:112 Resp: 20828
Ion Ratio Lower Upper
112 100
77 58.4 56.4 84.6
114 23.8 31.2 38.2

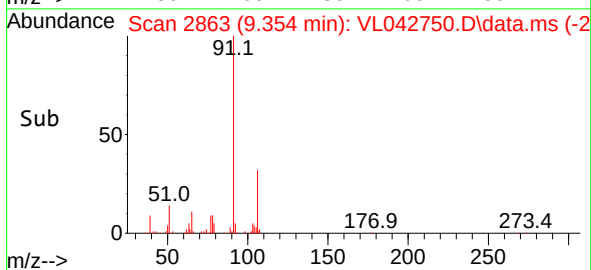
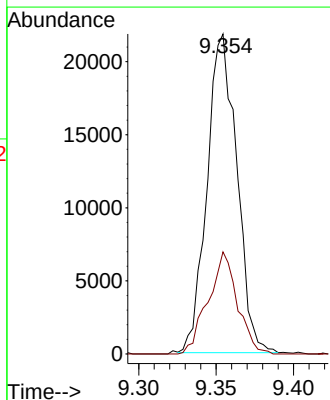
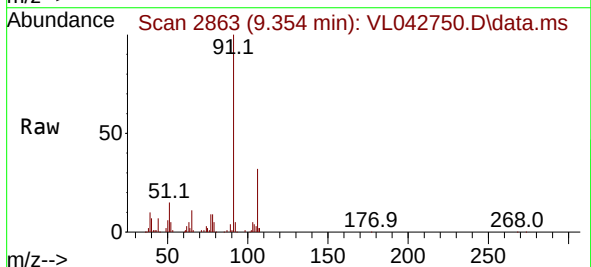
Manual Integrations
APPROVED

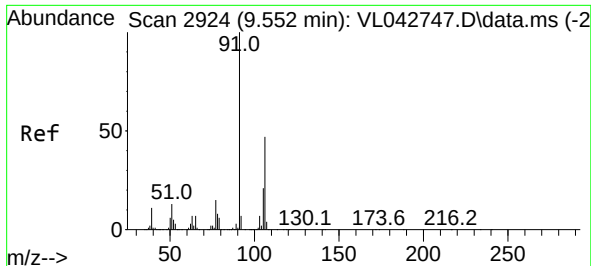
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 0.451 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29134
Ion Ratio Lower Upper
91 100
106 32.0 23.8 35.6





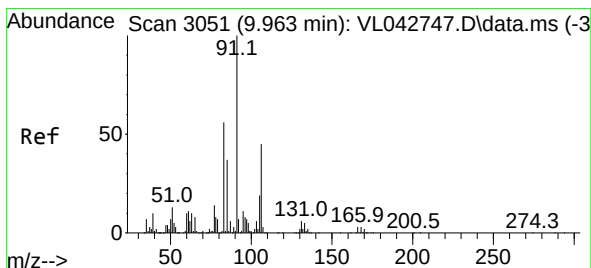
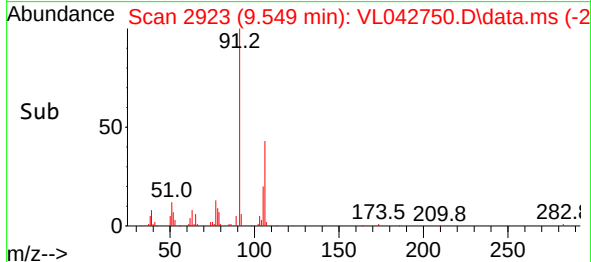
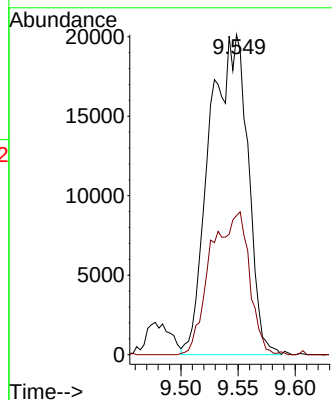
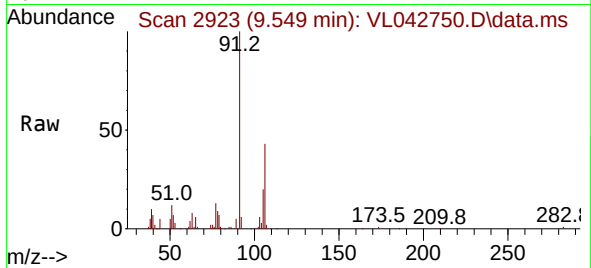
#59
m/p-Xylene
Concen: 0.912 ppbv m
RT: 9.549 min Scan# 2924
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 47028
Ion Ratio Lower Upper
91 100
106 44.9 37.4 56.2

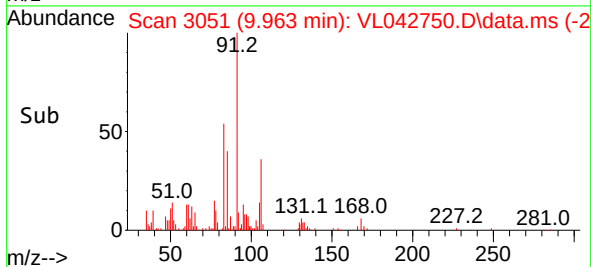
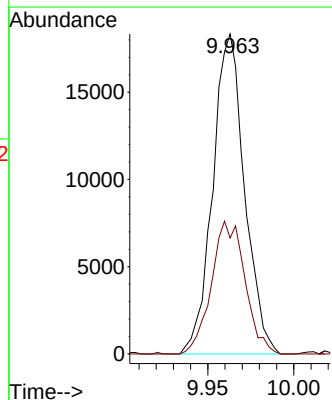
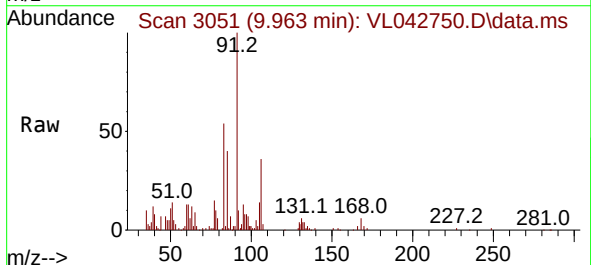
Manual Integrations
APPROVED

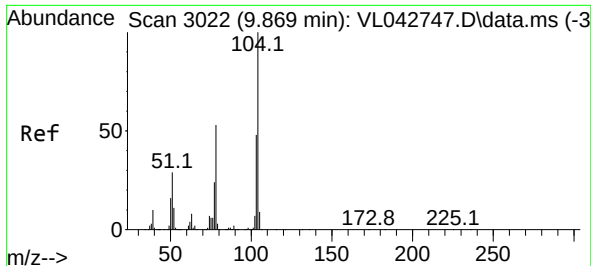
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 0.458 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

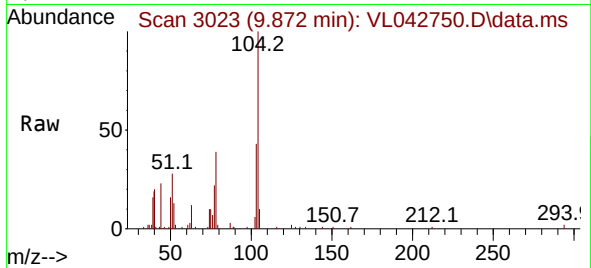
Tgt Ion: 91 Resp: 23603
Ion Ratio Lower Upper
91 100
106 43.8 22.0 66.0





#61
Styrene
Concen: 0.424 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

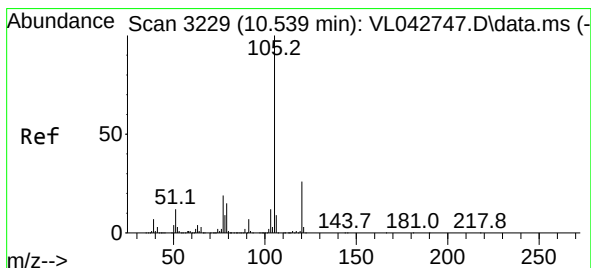
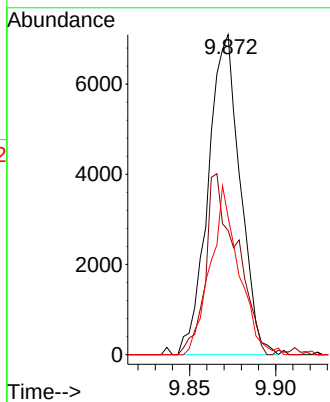
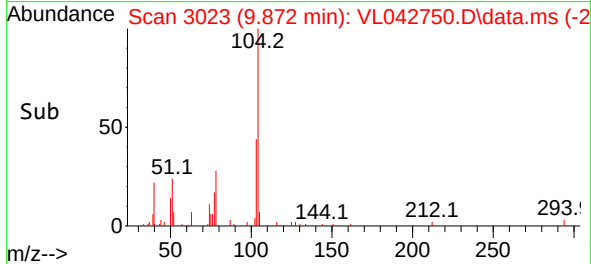
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion:104 Resp: 919
Ion Ratio Lower Upper
104 100
78 55.8 41.5 62.3
103 47.0 37.5 56.3

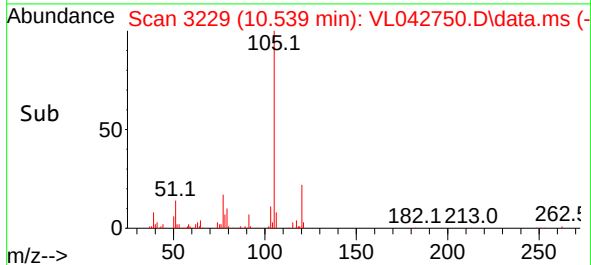
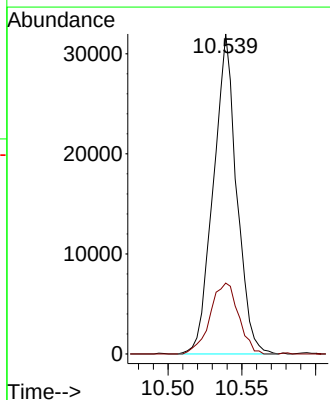
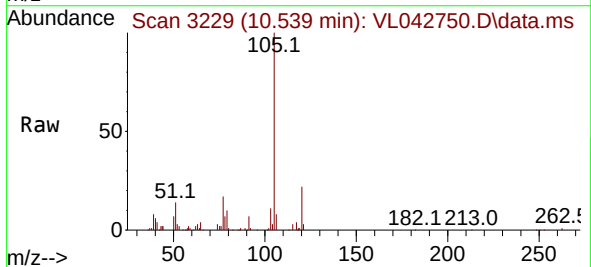
Manual Integrations
APPROVED

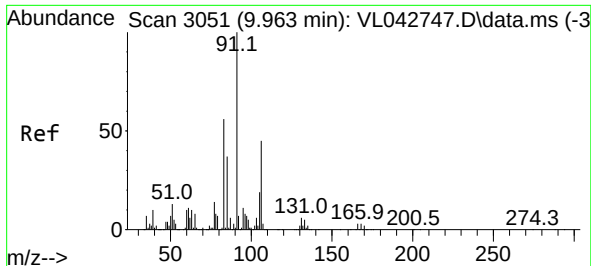
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 0.463 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 35189
Ion Ratio Lower Upper
105 100
120 26.9 20.5 30.7





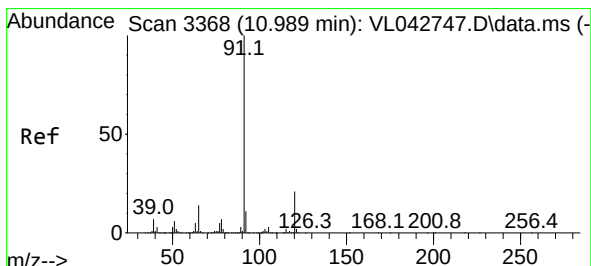
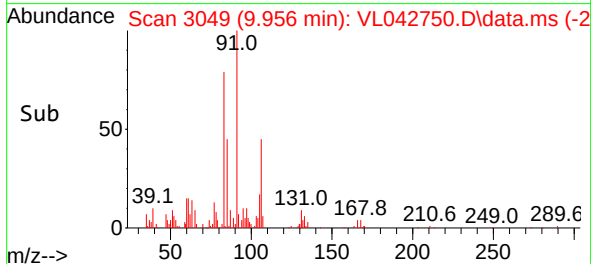
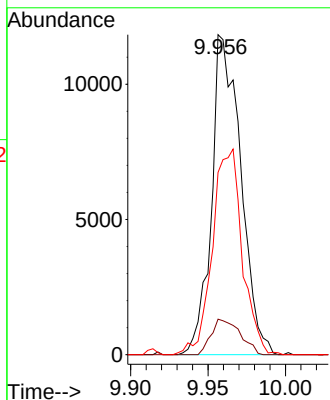
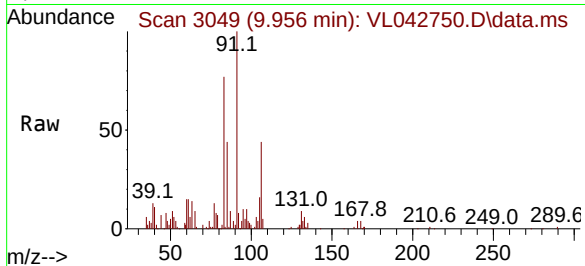
#63
1,1,2,2-Tetrachloroethane
Concen: 0.463 ppbv
RT: 9.956 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

Tgt Ion: 83 Resp: 1554
Ion Ratio Lower Upper
83 100
131 11.0 5.0 15.0
85 66.1 32.6 97.7

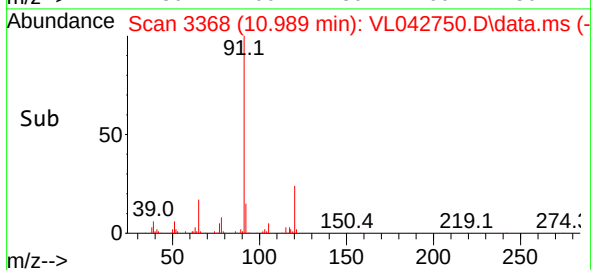
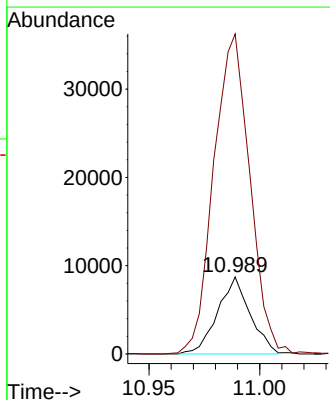
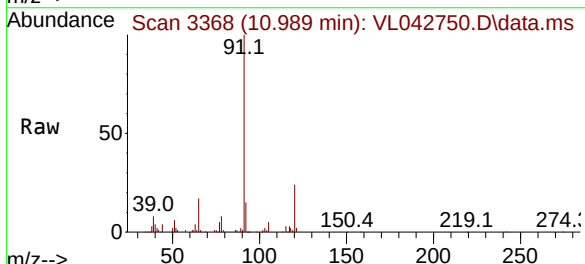
Manual Integrations
APPROVED

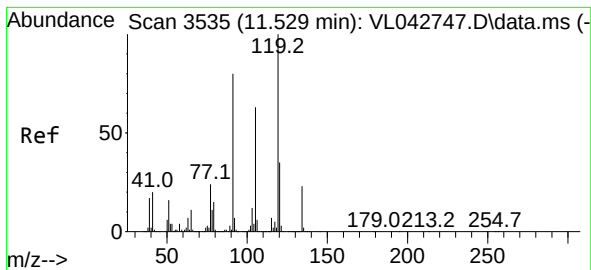
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:120 Resp: 8924
Ion Ratio Lower Upper
120 100
91 464.1 372.7 559.1





#65
tert-Butylbenzene
Concen: 0.453 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

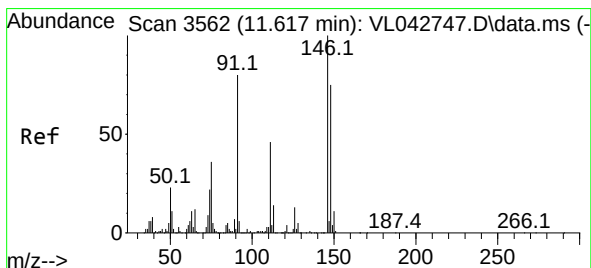
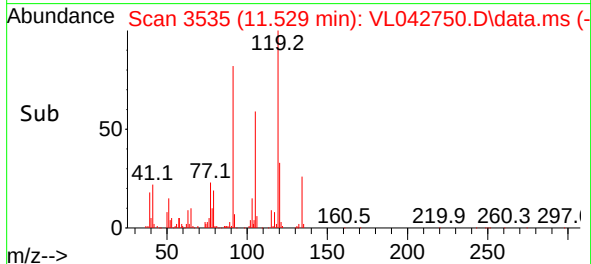
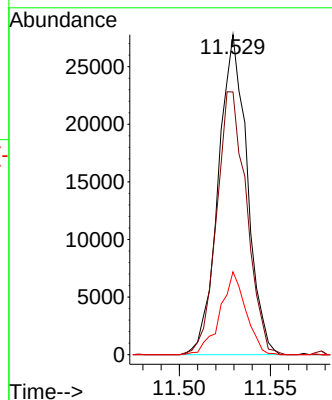
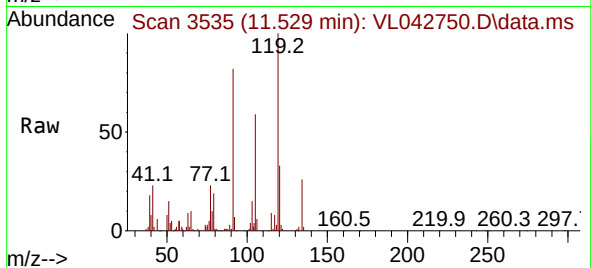
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 30560

Ion	Ratio	Lower	Upper
119	100		
91	85.1	64.0	96.0
134	23.1	17.3	25.9

Manual Integrations
APPROVED

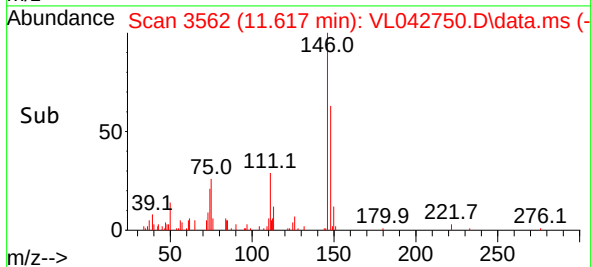
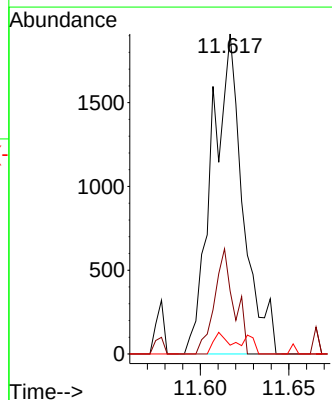
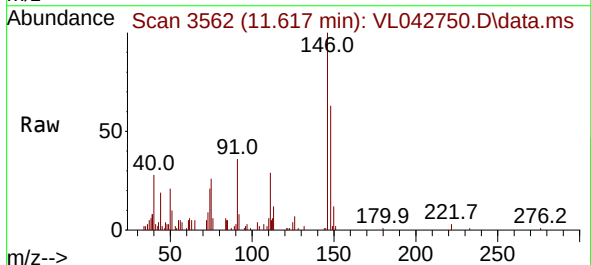
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

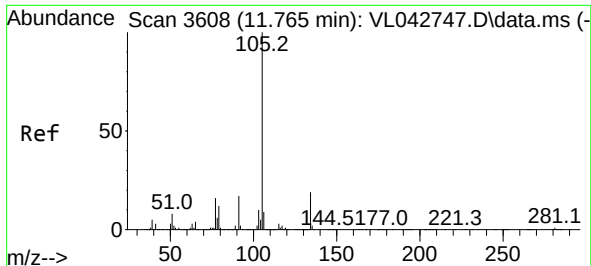


#66
Benzyl Chloride
Concen: 0.421 ppbv m
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 2336

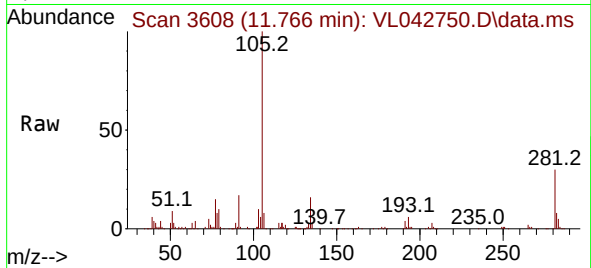
Ion	Ratio	Lower	Upper
91	100		
126	20.8	14.4	21.6
128	5.6	5.2	7.8





#67
 sec-Butylbenzene
 Concen: 0.460 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

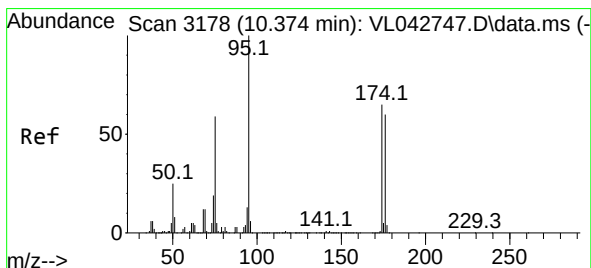
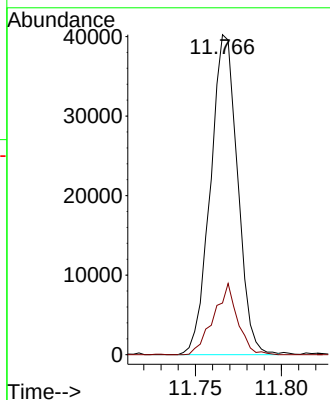
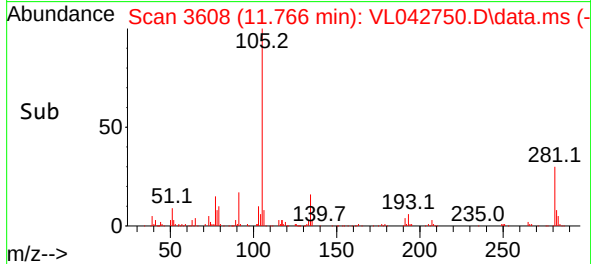
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:105 Resp: 44169
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.5 23.3

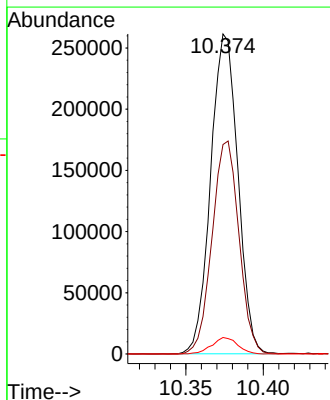
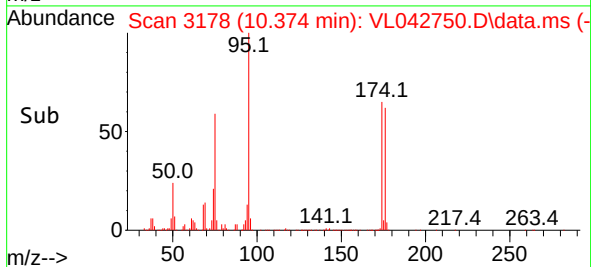
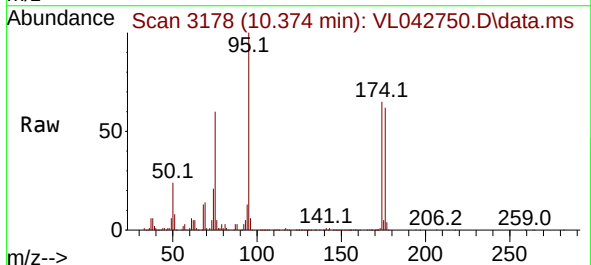
Manual Integrations
 APPROVED

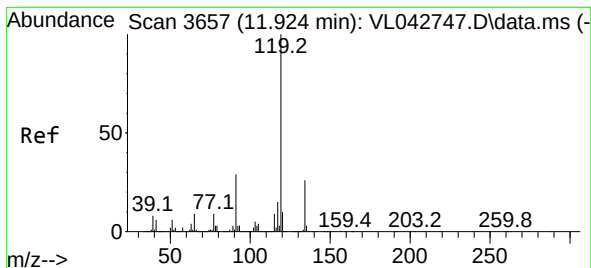
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.869 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 95 Resp: 319353
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.6
 175 4.9 4.0 6.0





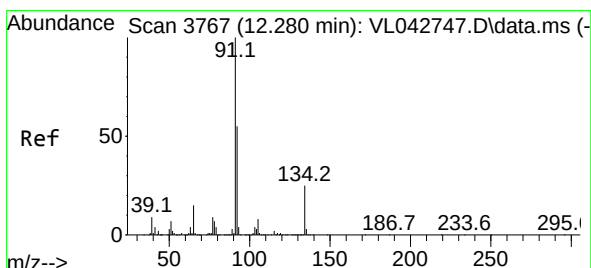
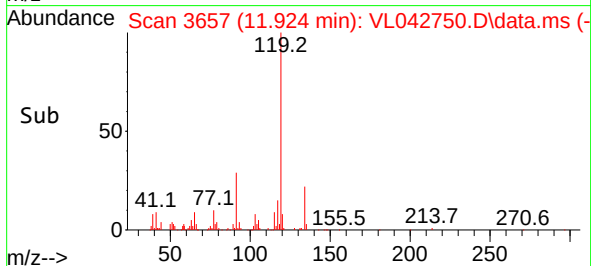
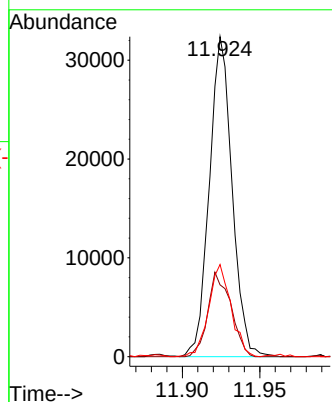
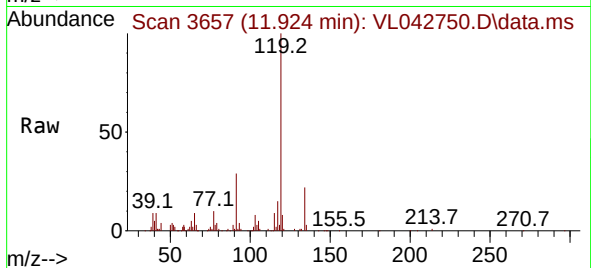
#69
p-Isopropyltoluene
Concen: 0.423 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 33104
Ion Ratio Lower Upper
119 100
134 26.8 20.6 31.0
91 28.8 23.2 34.8

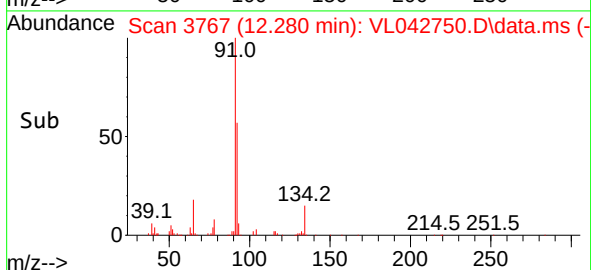
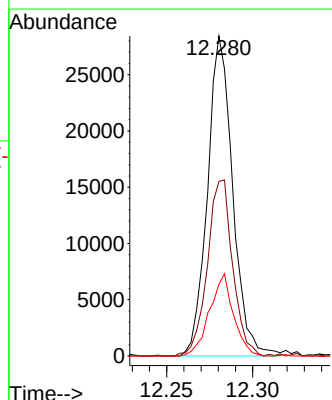
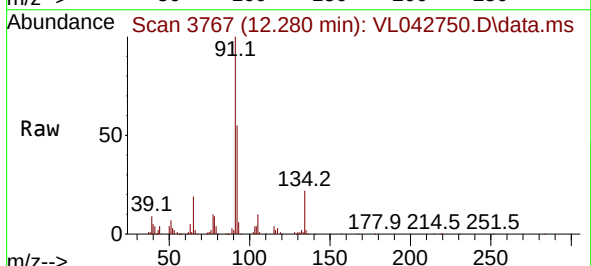
Manual Integrations
APPROVED

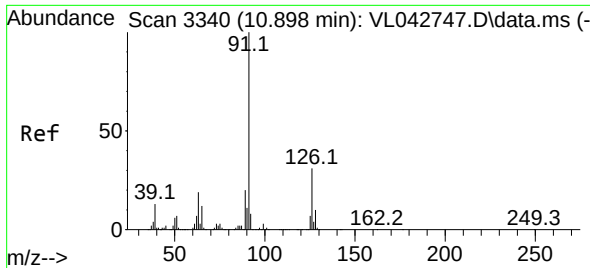
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#70
n-Butylbenzene
Concen: 0.384 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29048
Ion Ratio Lower Upper
91 100
92 55.5 43.4 65.2
134 24.3 19.6 29.4





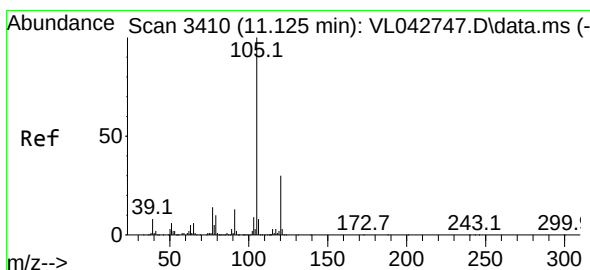
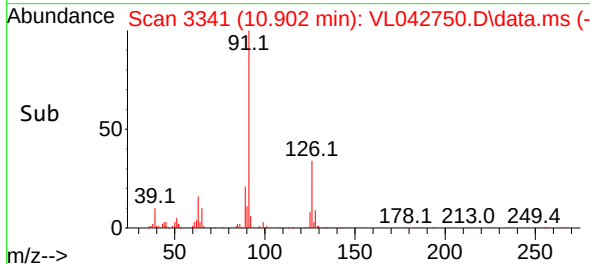
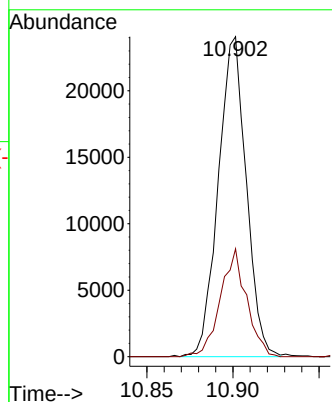
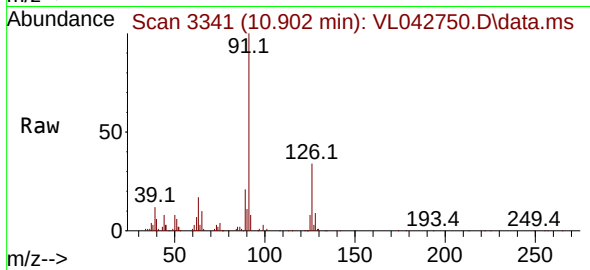
#71
2-Chlorotoluene
Concen: 0.466 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 27184
Ion Ratio Lower Upper
91 100
126 31.7 12.0 48.2

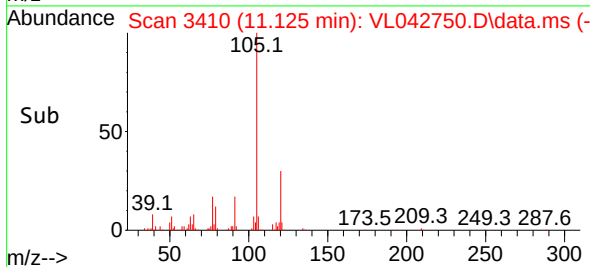
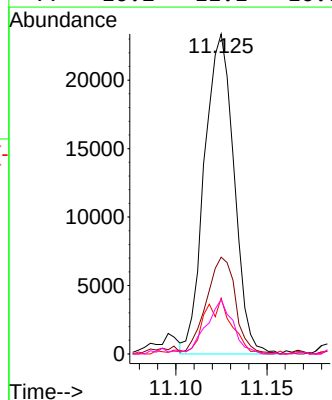
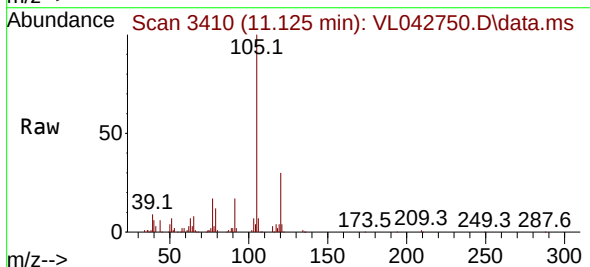
Manual Integrations
APPROVED

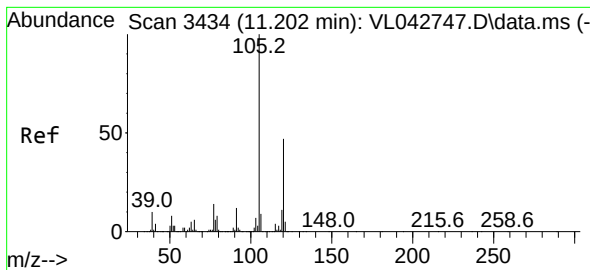
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 26395
Ion Ratio Lower Upper
105 100
120 31.6 24.4 36.6
91 17.0 10.6 15.8#
77 16.2 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.442 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 22392

Ion Ratio Lower Upper

105 100

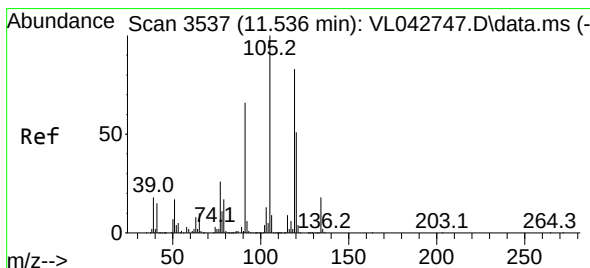
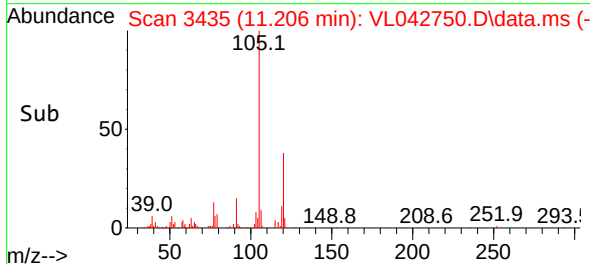
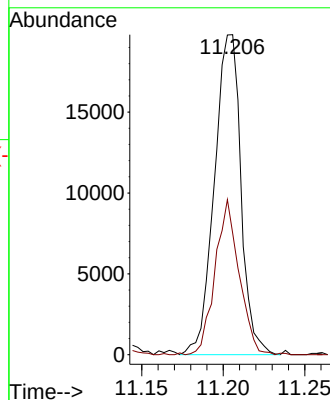
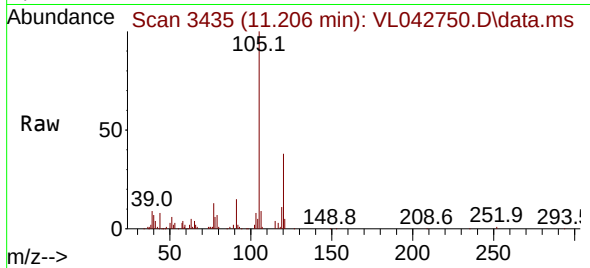
120 37.5 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.412 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 22772

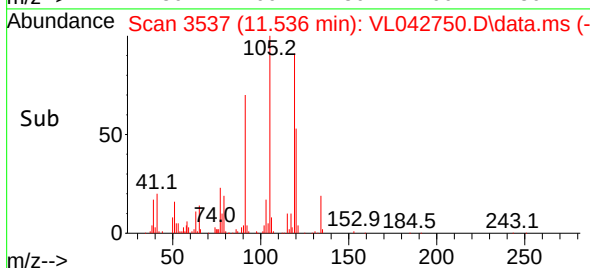
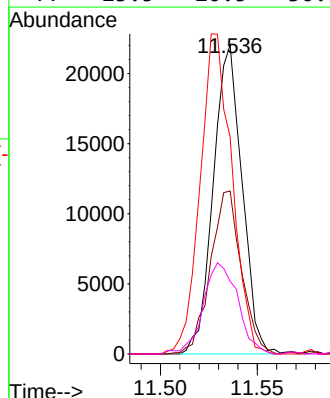
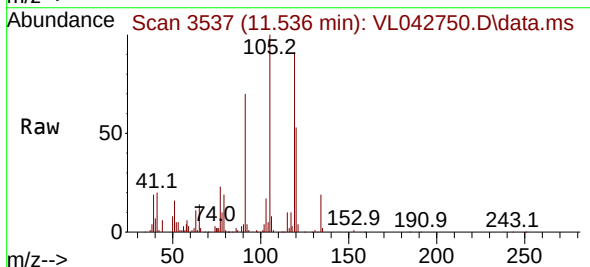
Ion Ratio Lower Upper

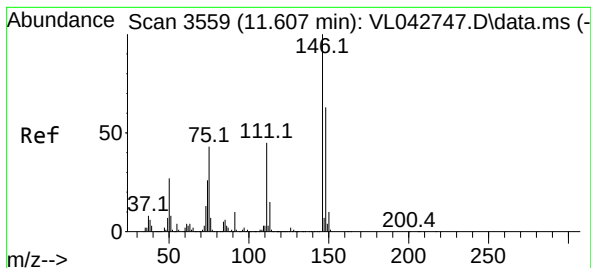
105 100

120 52.7 40.8 61.2

91 70.3 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 0.482 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

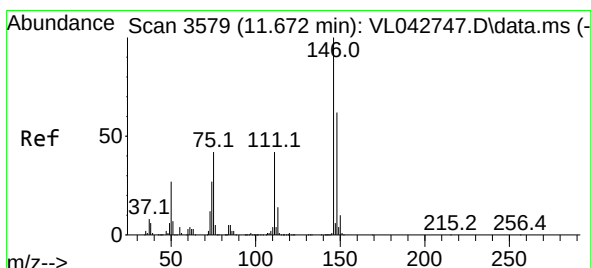
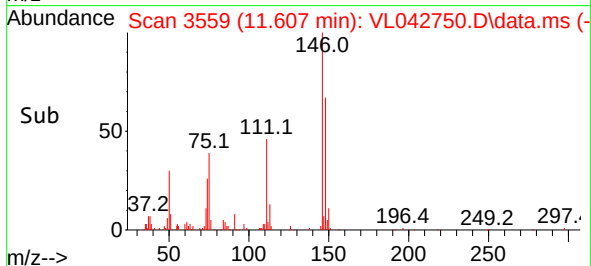
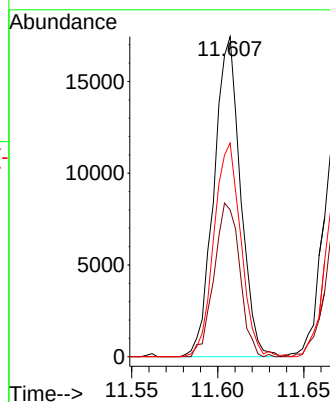
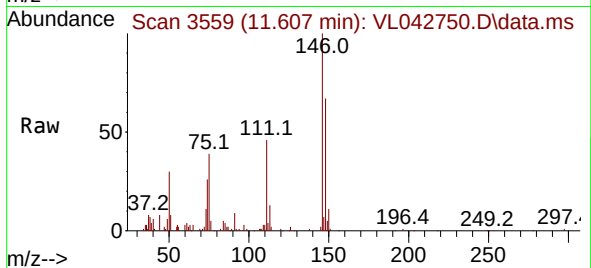
VSTDIC0.5

Tgt Ion:146 Resp: 18680
 Ion Ratio Lower Upper
 146 100
 111 46.6 22.7 68.0
 148 67.7 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 0.465 ppbv

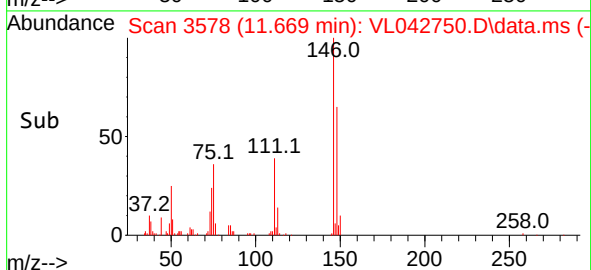
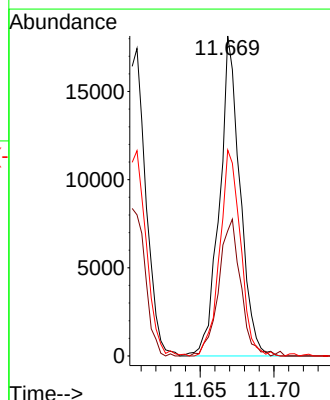
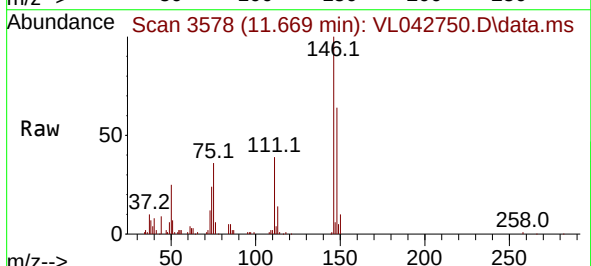
RT: 11.669 min Scan# 3578

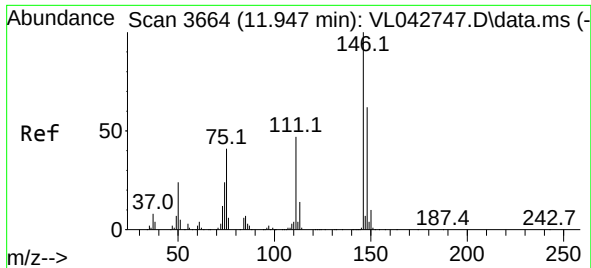
Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:146 Resp: 17616
 Ion Ratio Lower Upper
 146 100
 111 45.9 21.4 64.2
 148 65.4 32.1 96.3





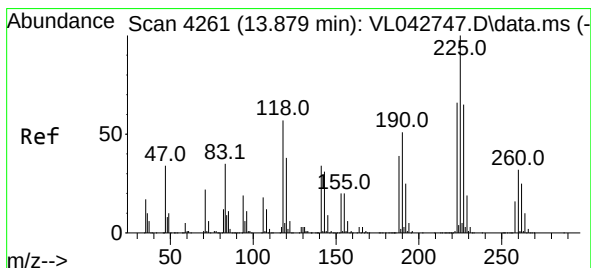
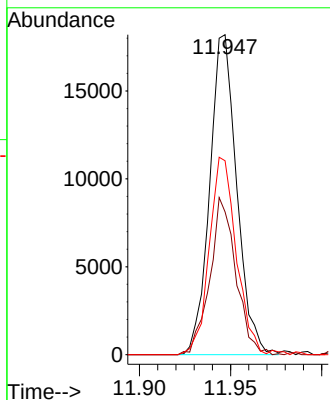
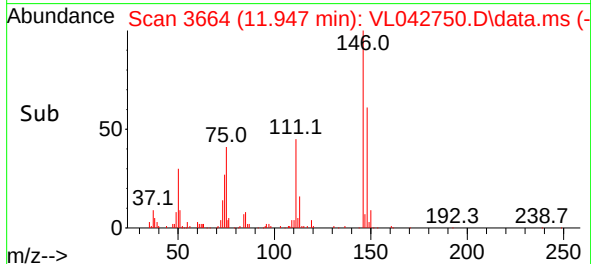
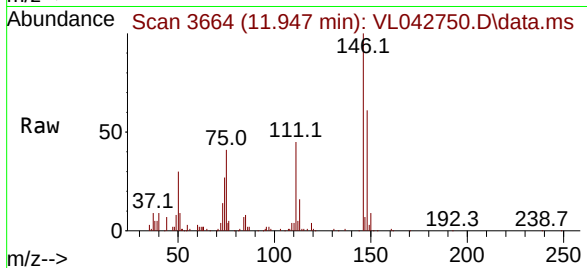
#77
1,2-Dichlorobenzene
Concen: 0.494 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 18799
Ion Ratio Lower Upper
146 100
111 47.9 23.7 71.1
148 62.3 32.6 97.7

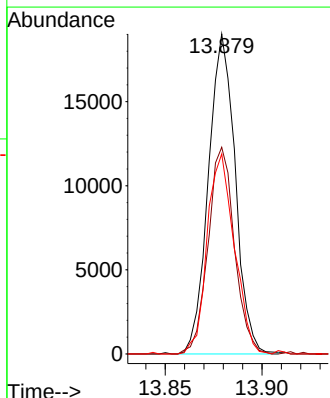
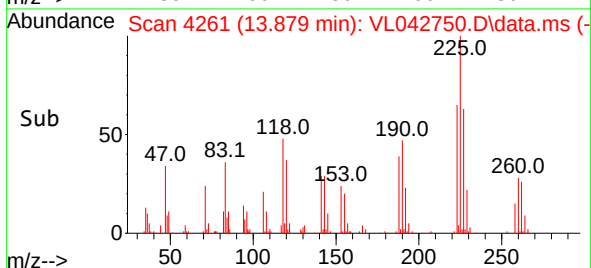
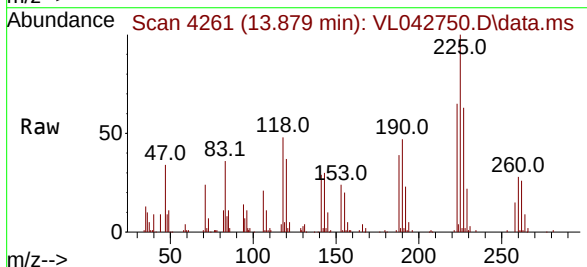
Manual Integrations
APPROVED

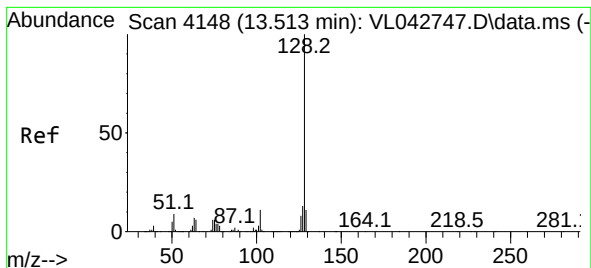
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.532 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

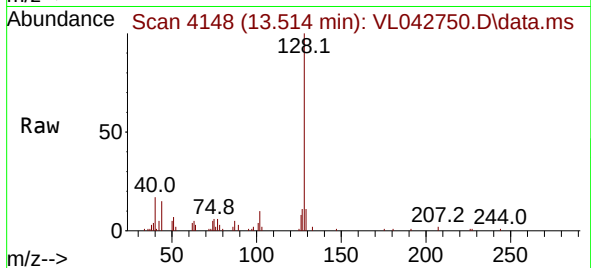
Tgt Ion:225 Resp: 18330
Ion Ratio Lower Upper
225 100
223 63.7 50.7 76.1
227 63.7 50.5 75.7





#79
Naphthalene
Concen: 0.592 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

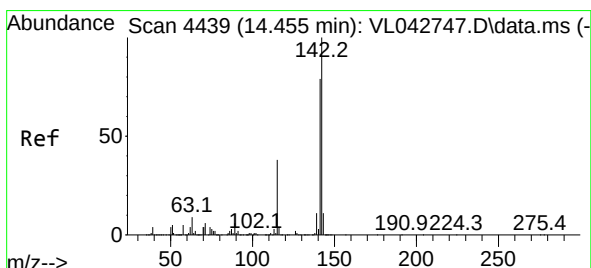
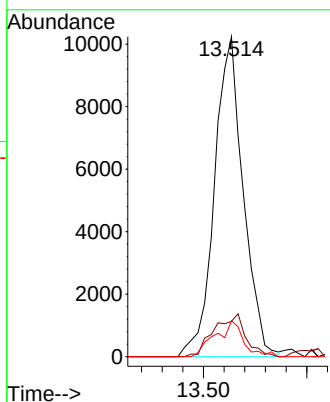
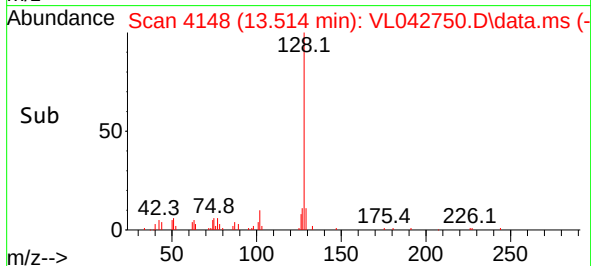
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



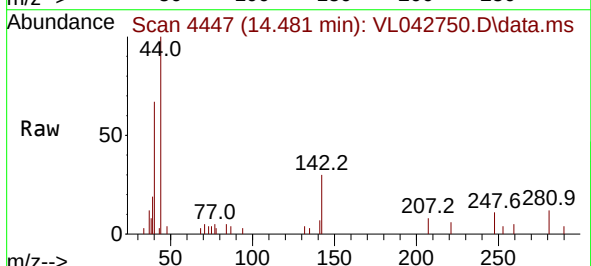
Tgt Ion:128 Resp: 9910
Ion Ratio Lower Upper
128 100
127 11.1 10.5 15.7
129 11.2 8.6 13.0

Manual Integrations
APPROVED

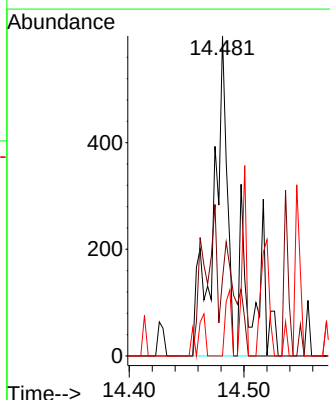
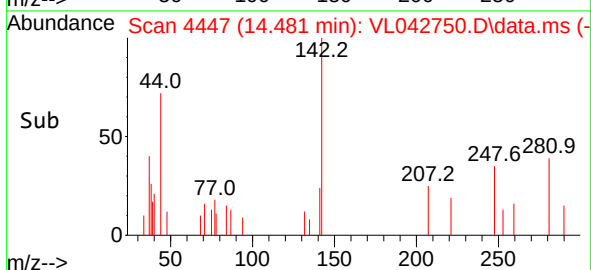
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

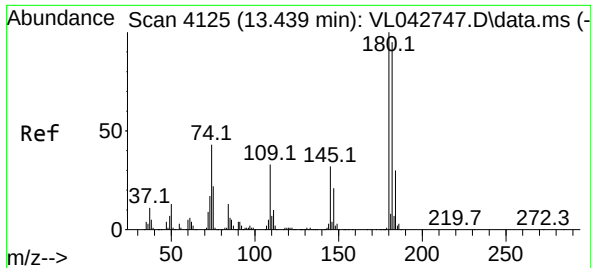


#80
Naphthalene,2-methyl-
Concen: 1.148 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



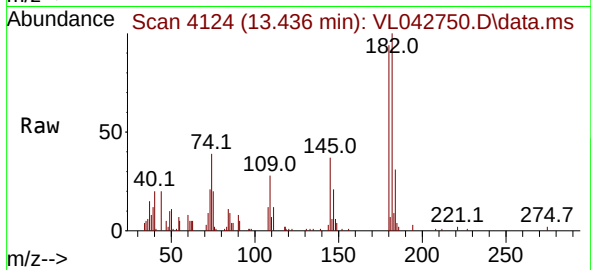
Tgt Ion:142 Resp: 731
Ion Ratio Lower Upper
142 100
141 54.6 65.8 98.8#
115 5.2 31.2 46.8#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.645 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

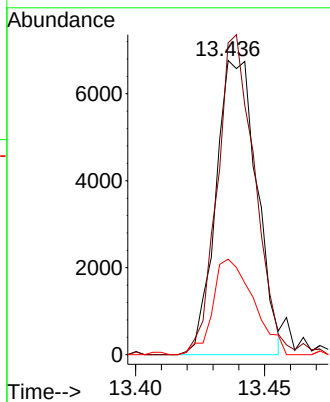
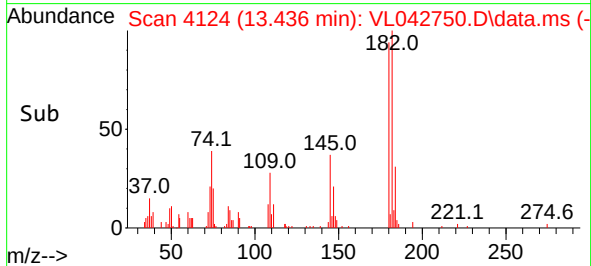
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:180 Resp: 745
 Ion Ratio Lower Upper
 180 100
 182 100.9 76.2 114.2
 184 33.0 24.8 37.2

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 : 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

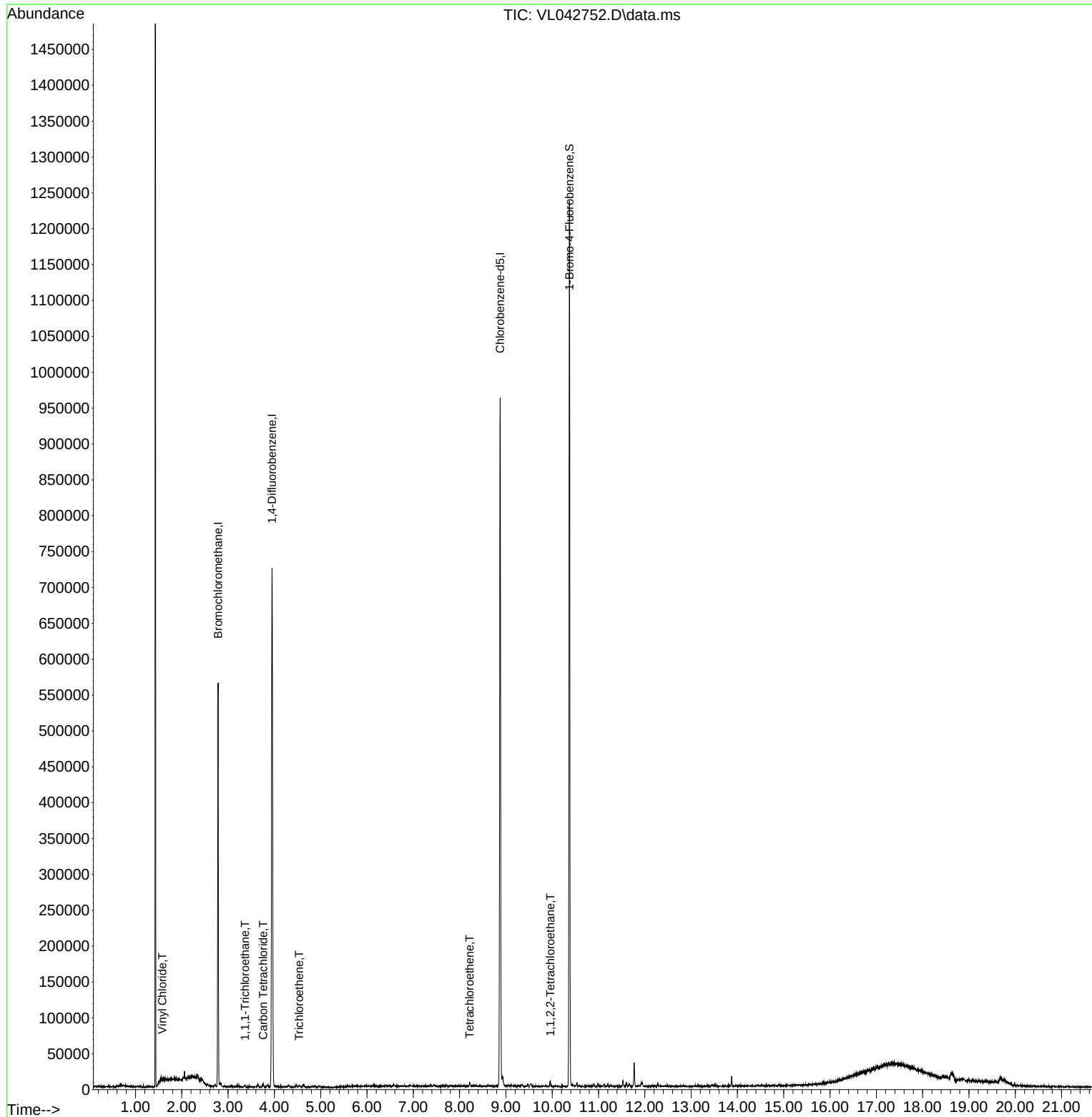
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

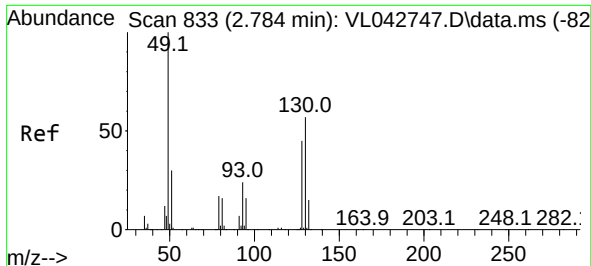
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

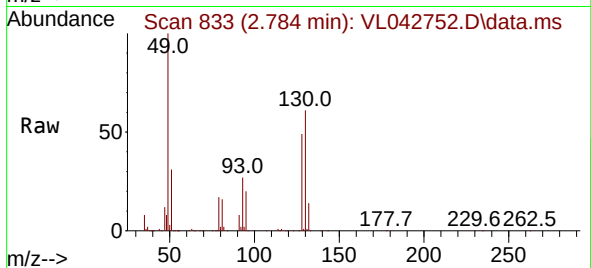
Reviewed By : Semsettin Yesilyurt 07/24/2025
Supervised By : Mahesh Dadoda 07/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

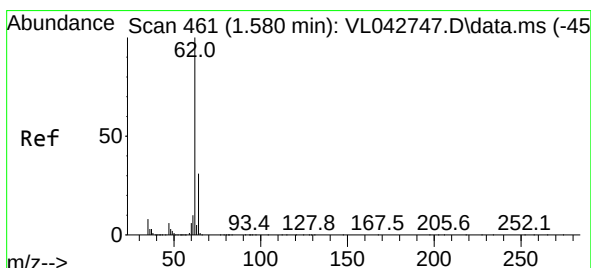
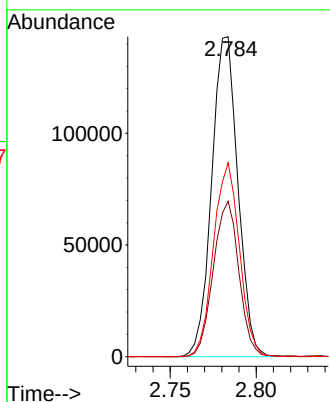
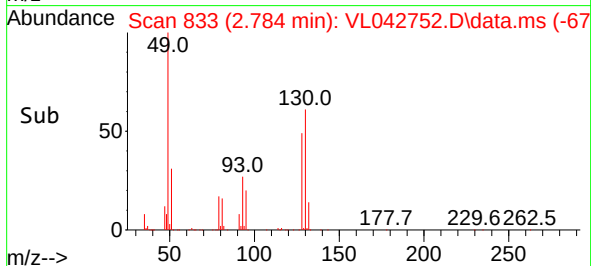
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 49 Resp: 151834
Ion Ratio Lower Upper
49 100
128 47.5 23.6 71.0
130 60.2 30.3 90.8

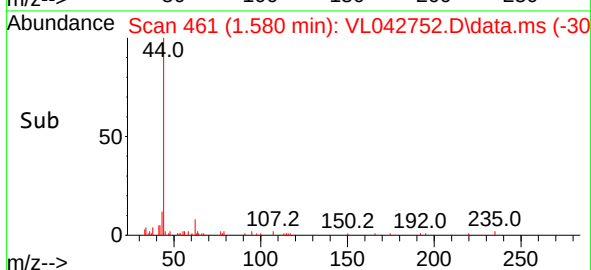
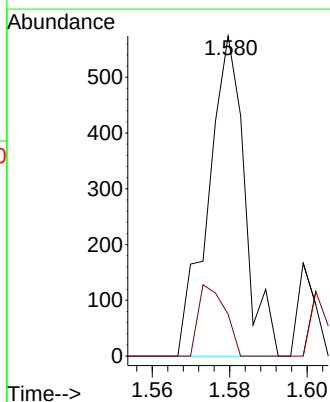
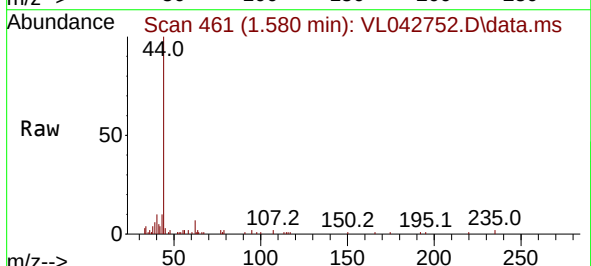
Manual Integrations
APPROVED

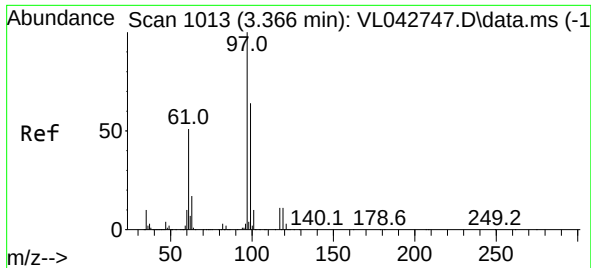
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#5
Vinyl Chloride
Concen: 0.047 ppbv
RT: 1.580 min Scan# 461
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

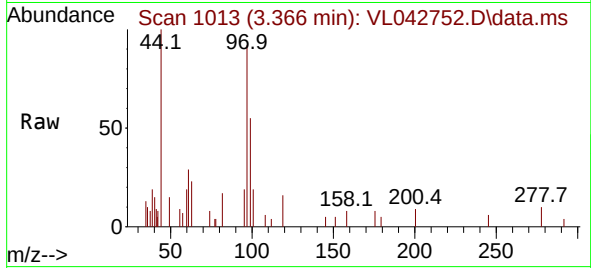
Tgt Ion: 62 Resp: 376
Ion Ratio Lower Upper
62 100
64 13.1 24.5 36.7#





#32
 1,1,1-Trichloroethane
 Concen: 0.035 ppbv m
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

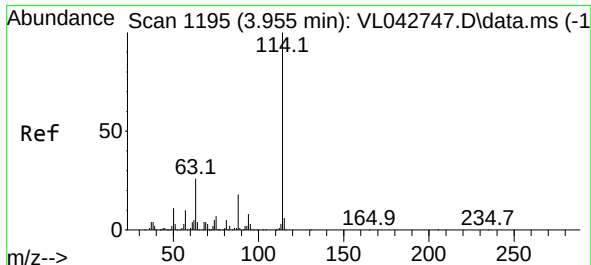
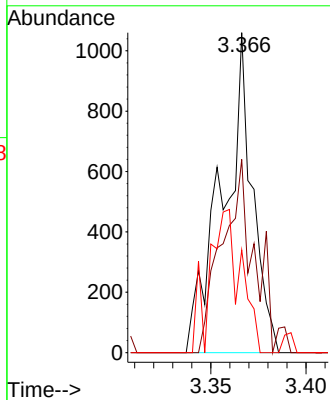
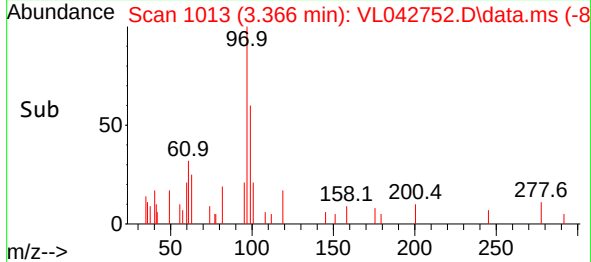
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



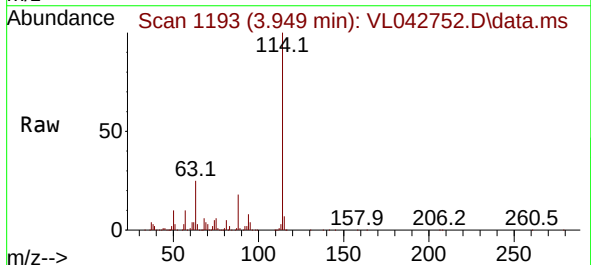
Tgt Ion: 97 Resp: 1149
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6
 61 48.9 40.9 61.3

Manual Integrations
 APPROVED

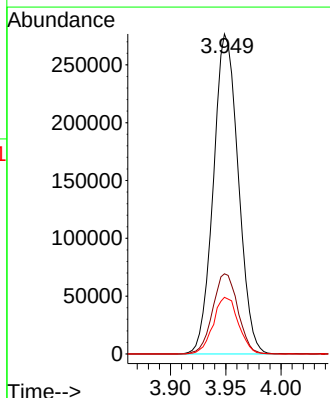
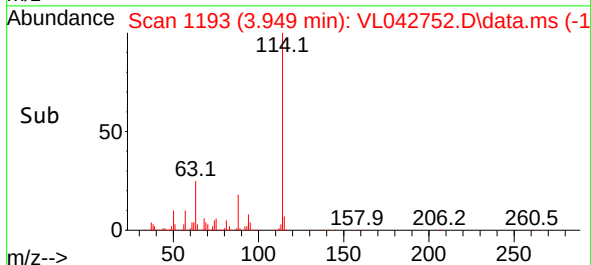
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

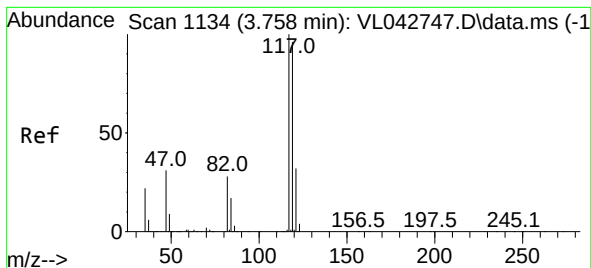


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 1193
 Delta R.T. -0.007 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50



Tgt Ion:114 Resp: 432802
 Ion Ratio Lower Upper
 114 100
 63 25.4 20.5 30.7
 88 17.9 14.0 21.0





#35

Carbon Tetrachloride

Concen: 0.038 ppbv m

RT: 3.755 min Scan# 1133

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

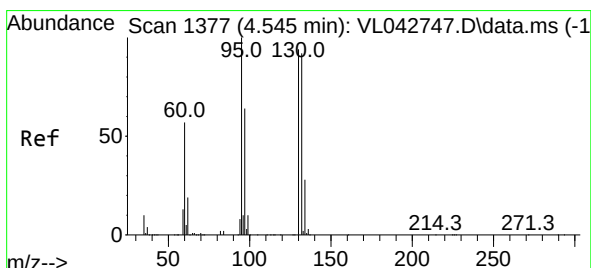
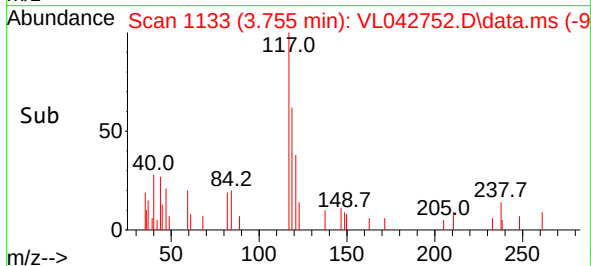
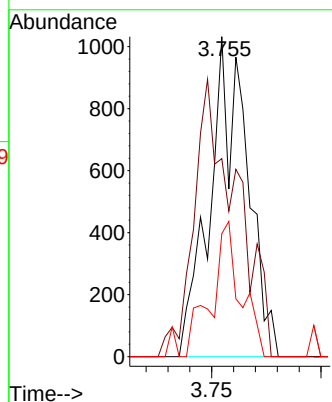
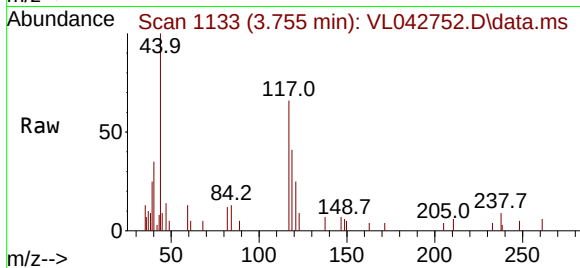
VSTDICC0.03

Tgt Ion:	117	Resp:	123
Ion	Ratio	Lower	Upper
117	100		
119	61.9	77.1	115.7
121	38.5	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38

Trichloroethene

Concen: 0.034 ppbv m

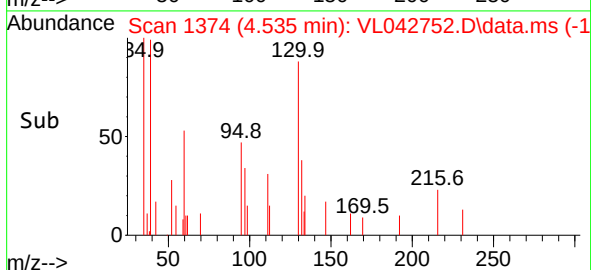
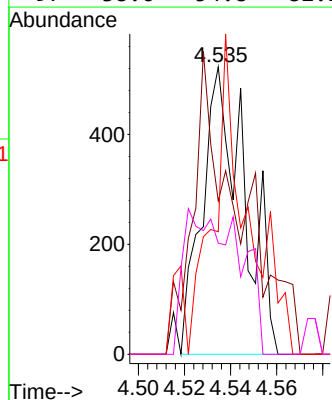
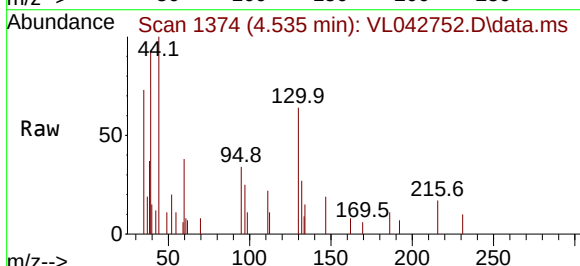
RT: 4.535 min Scan# 1374

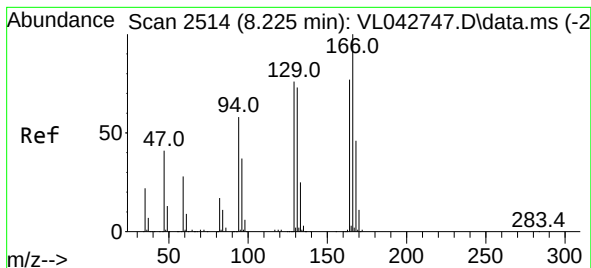
Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion:	130	Resp:	664
Ion	Ratio	Lower	Upper
130	100		
95	53.3	85.4	128.2#
132	42.6	78.2	117.2#
97	38.6	54.8	82.2#





#52

Tetrachloroethene

Concen: 0.038 ppbv m

RT: 8.215 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

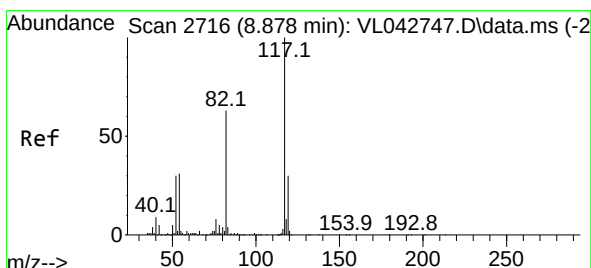
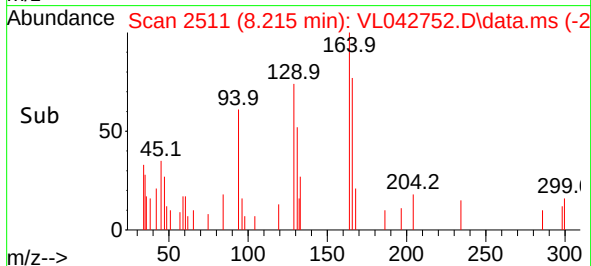
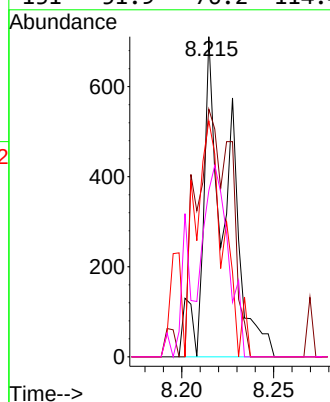
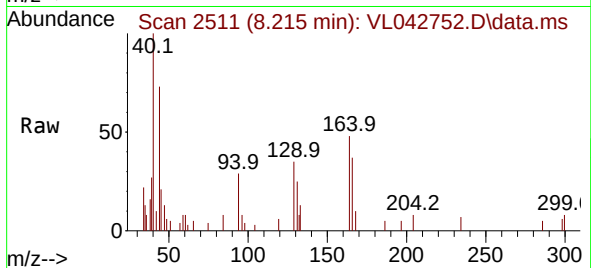
VSTDICC0.03

Tgt Ion:	164	Resp:	654
Ion Ratio	Lower	Upper	
164	100		
166	77.4	104.0	156.0
129	73.7	79.2	118.8
131	51.9	76.2	114.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

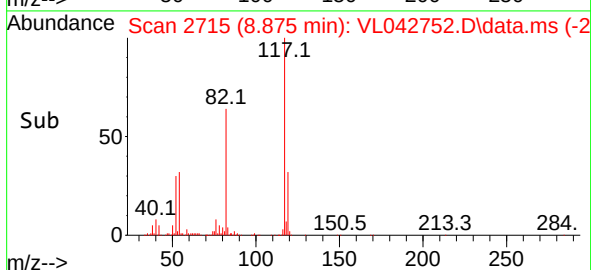
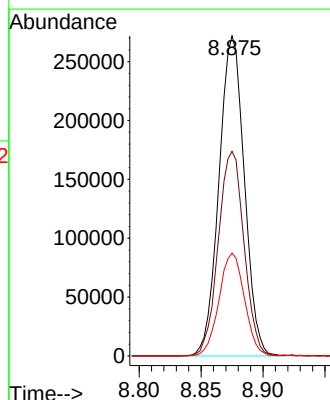
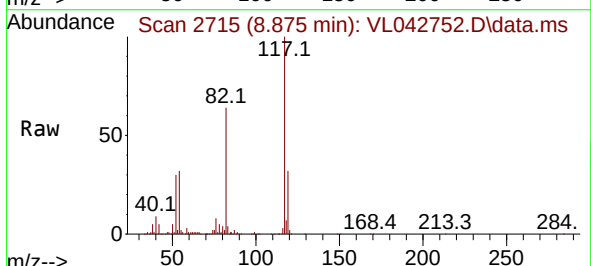
RT: 8.875 min Scan# 2715

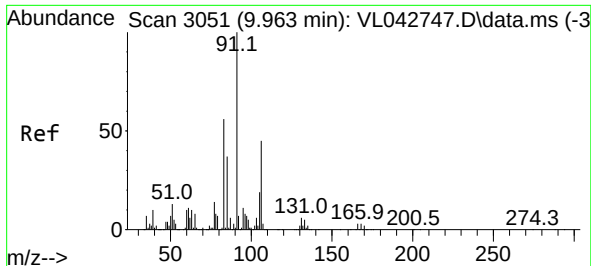
Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

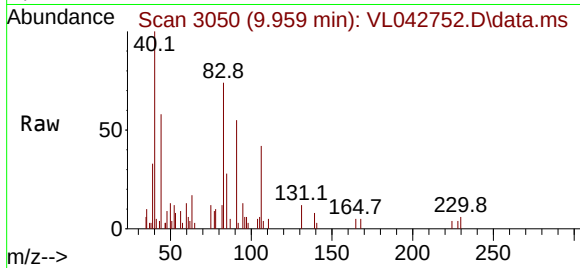
Tgt Ion:	117	Resp:	387541
Ion Ratio	Lower	Upper	
117	100		
82	65.0	53.3	79.9
119	32.6	25.8	38.6





#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

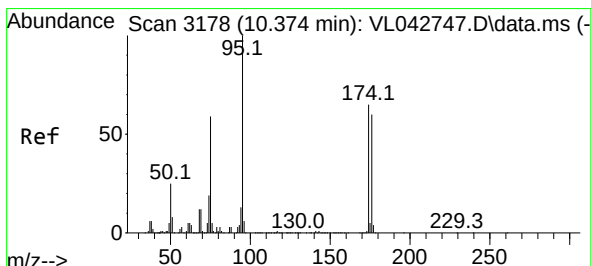
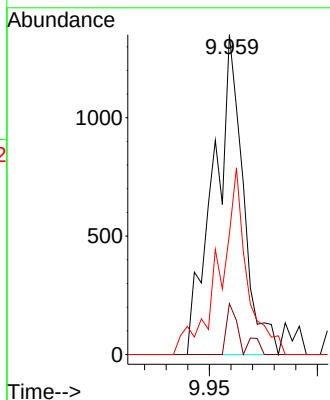
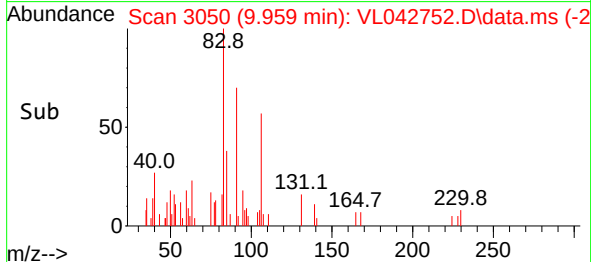
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



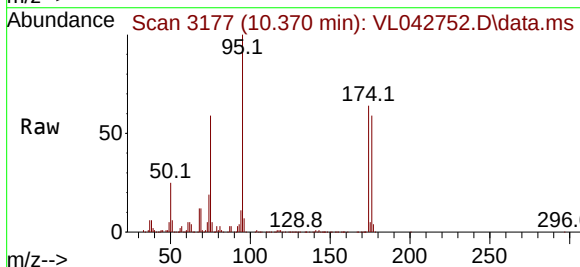
Tgt Ion: 83 Resp: 128
Ion Ratio Lower Upper
83 100
131 7.5 5.0 15.0
85 54.6 32.6 97.7

Manual Integrations
APPROVED

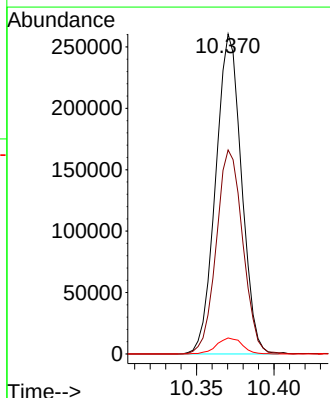
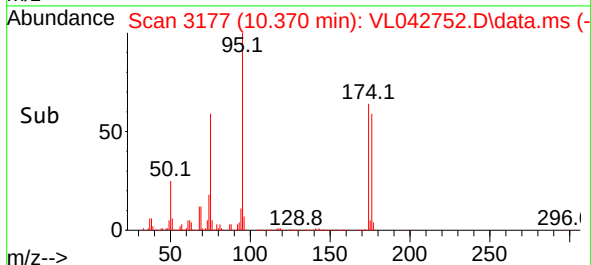
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50



Tgt Ion: 95 Resp: 302164
Ion Ratio Lower Upper
95 100
174 65.6 53.8 80.6
175 5.0 4.0 6.0



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

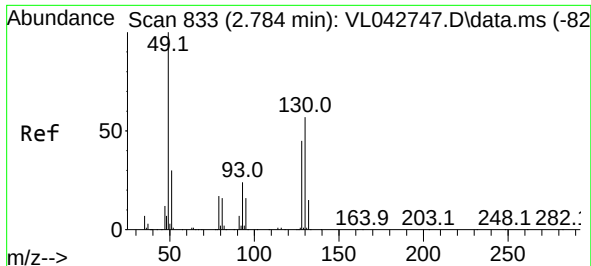
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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



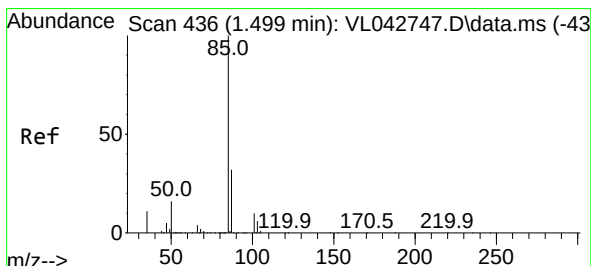
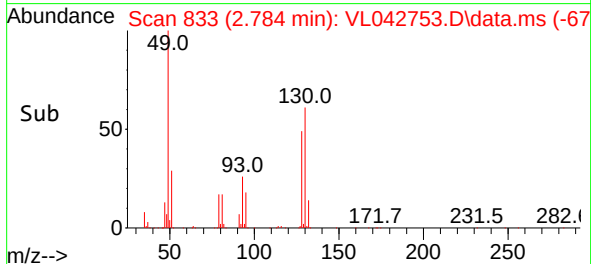
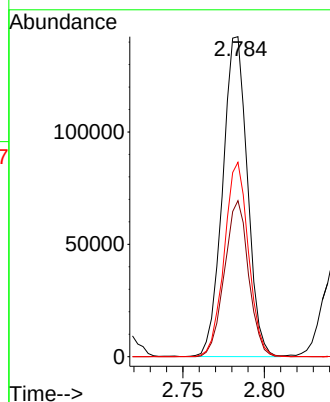
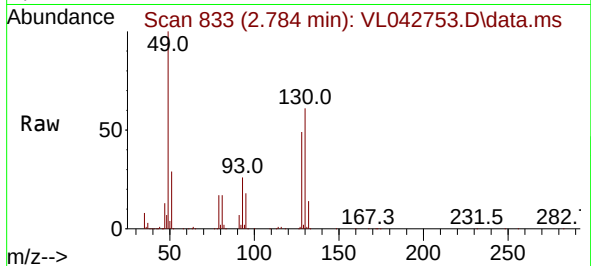
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 15033
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 59.2 30.3 90.8

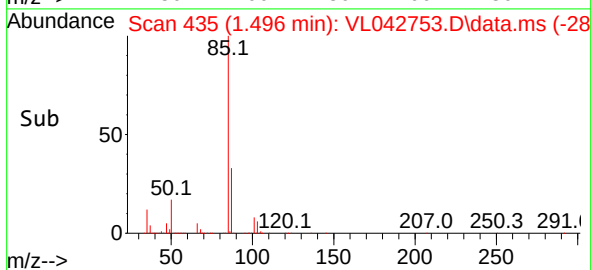
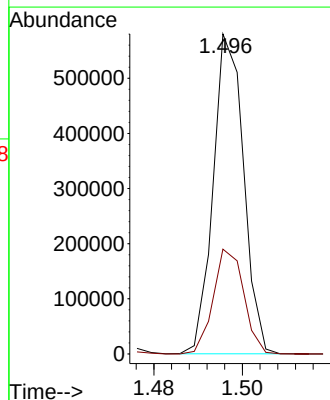
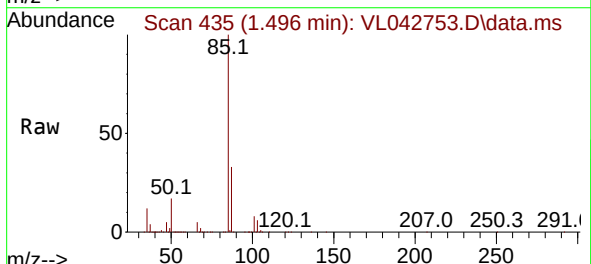
Manual Integrations
APPROVED

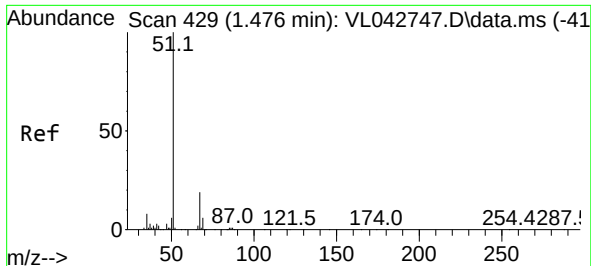
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 13.938 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 277045
Ion Ratio Lower Upper
85 100
87 32.7 25.4 38.2





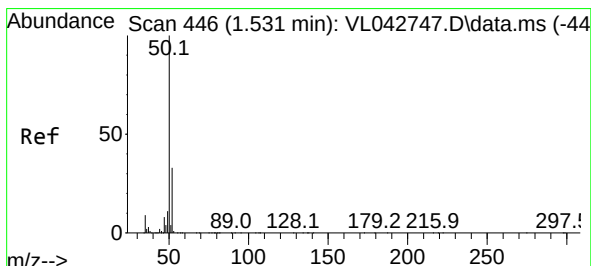
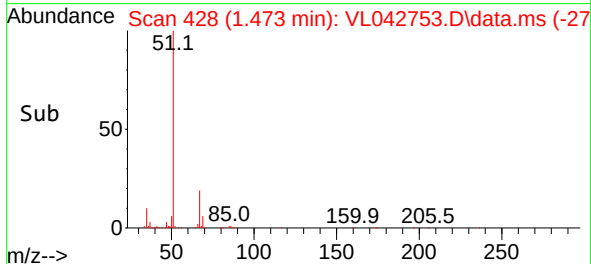
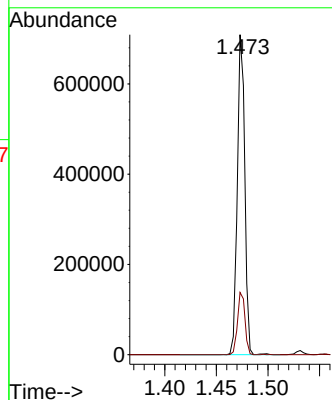
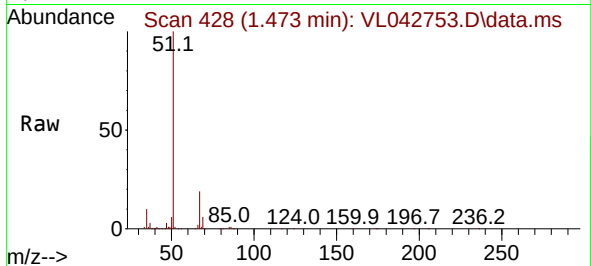
#3
Chlorodifluoromethane
Concen: 13.651 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 35345
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.6

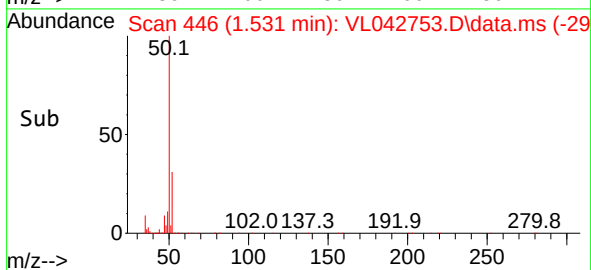
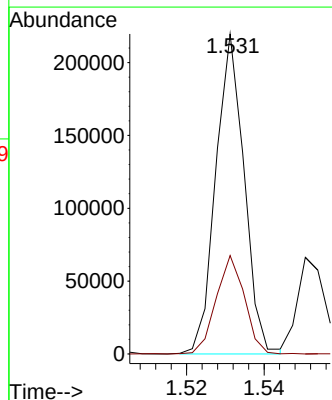
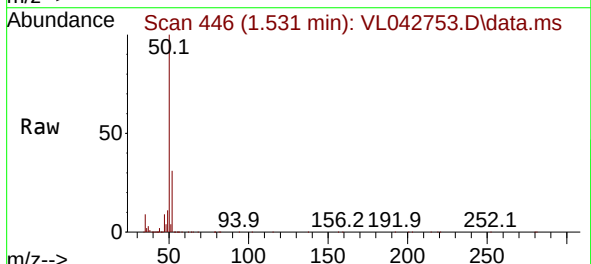
Manual Integrations
APPROVED

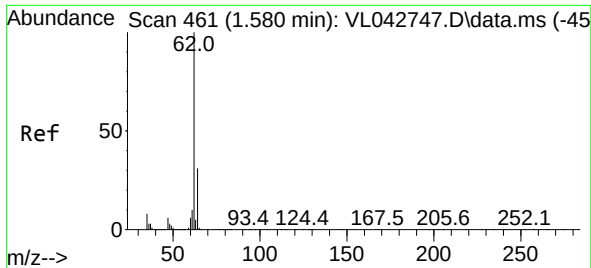
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 13.889 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 50 Resp: 111684
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0





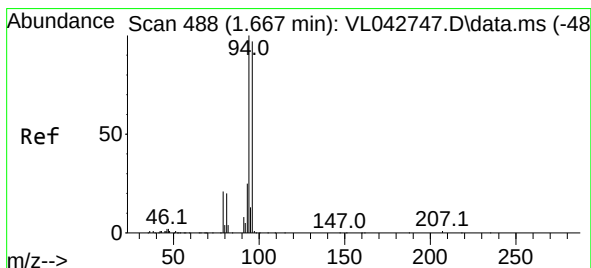
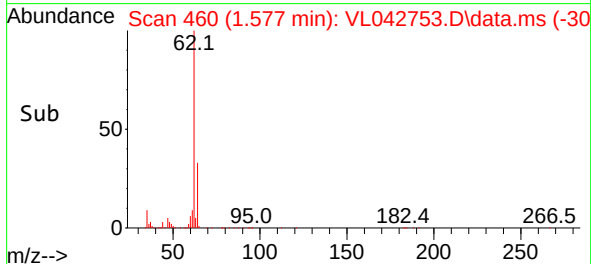
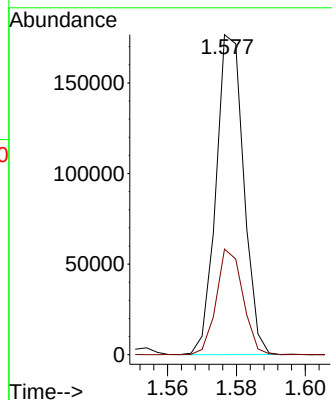
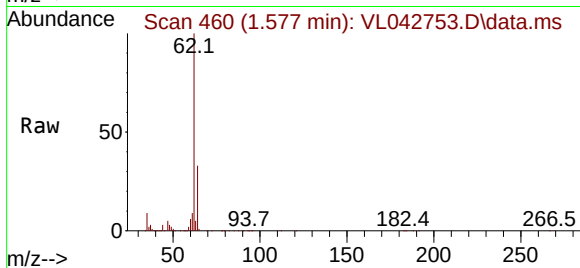
#5
 Vinyl Chloride
 Concen: 12.410 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 98590
 Ion Ratio Lower Upper
 62 100
 64 33.0 24.5 36.7

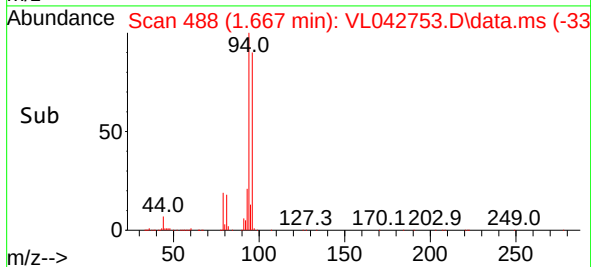
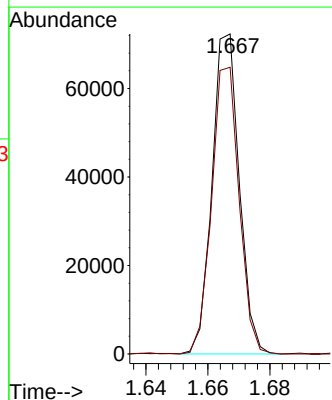
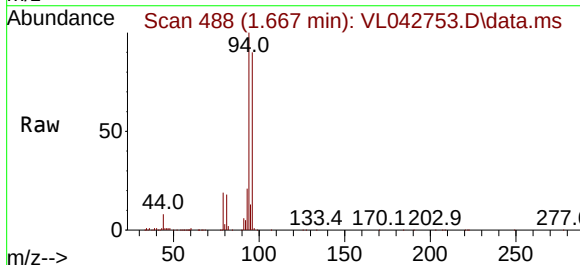
Manual Integrations
 APPROVED

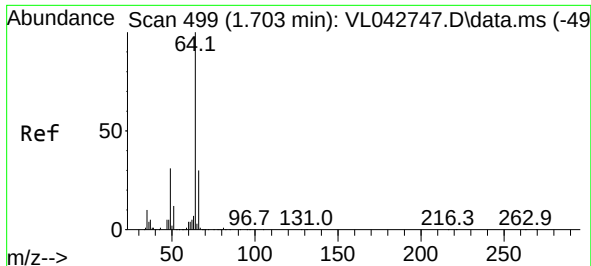
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 14.372 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 94 Resp: 44144
 Ion Ratio Lower Upper
 94 100
 96 89.6 77.6 116.4





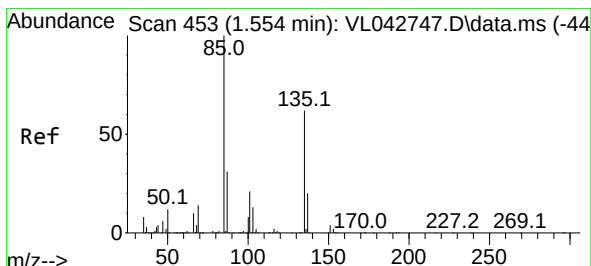
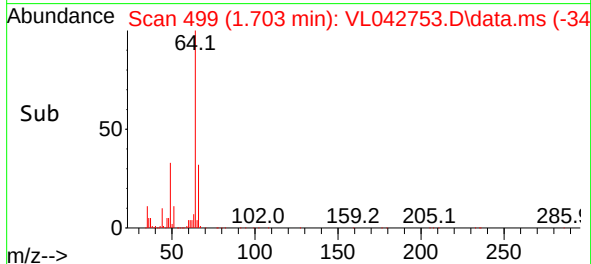
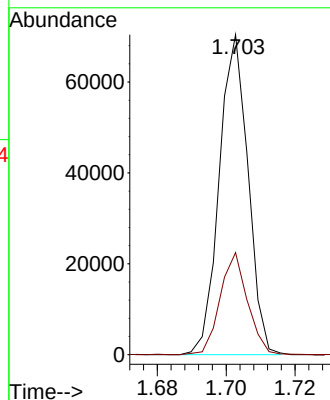
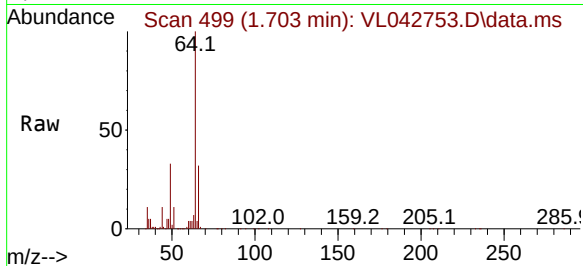
#7
Chloroethane
Concen: 13.327 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 64 Resp: 40909
Ion Ratio Lower Upper
64 100
66 31.9 24.1 36.1

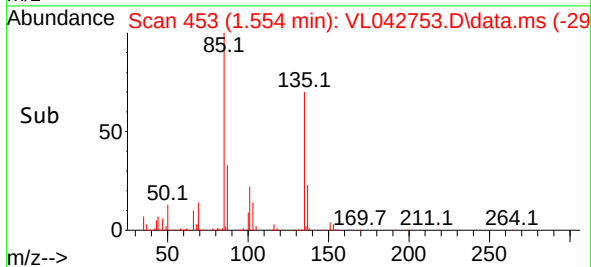
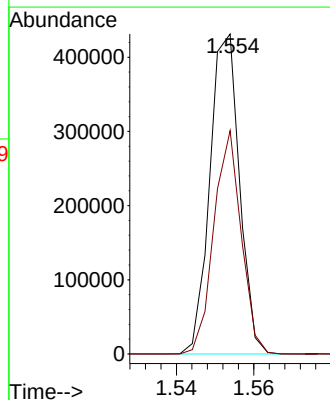
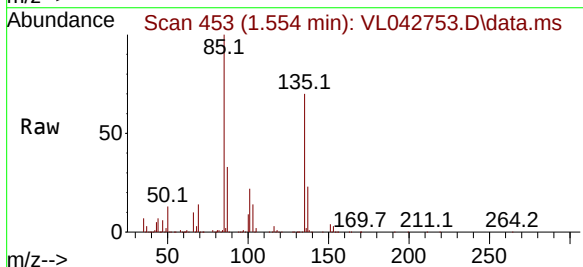
Manual Integrations
APPROVED

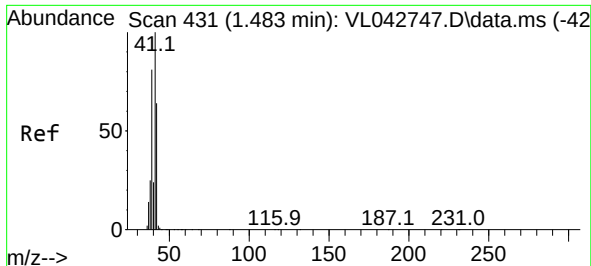
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 14.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 229298
Ion Ratio Lower Upper
85 100
135 64.4 50.6 76.0





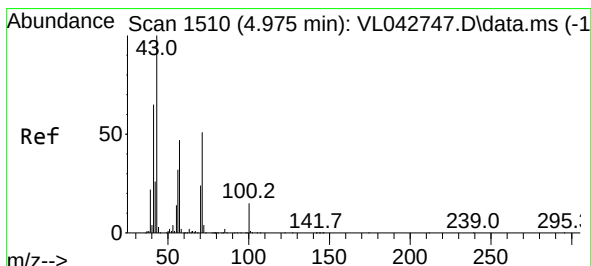
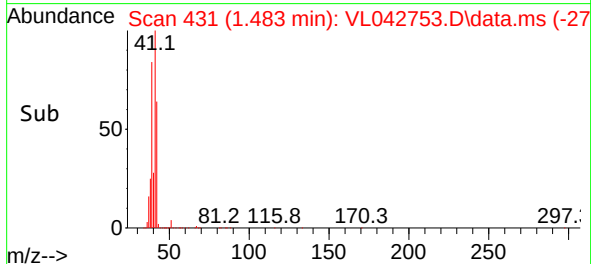
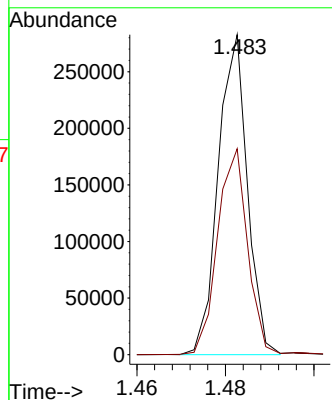
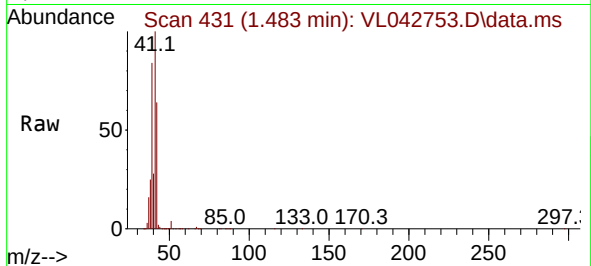
#9
 Propene
 Concen: 13.716 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 41 Resp: 129069
 Ion Ratio Lower Upper
 41 100
 42 67.0 53.2 79.8

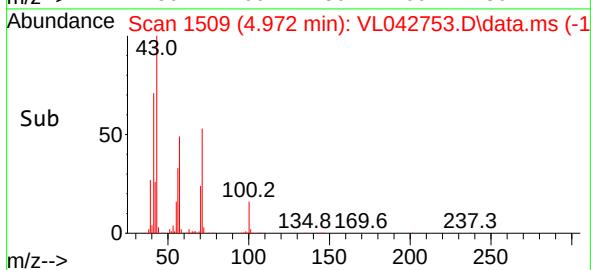
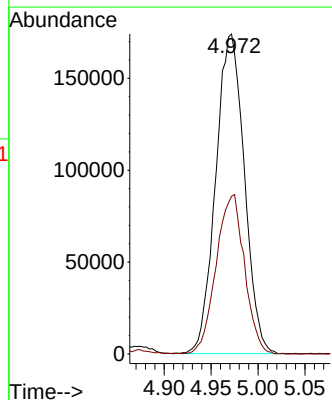
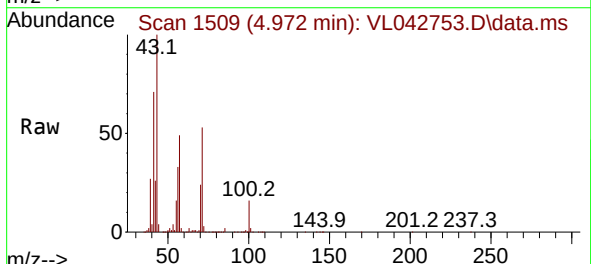
Manual Integrations
 APPROVED

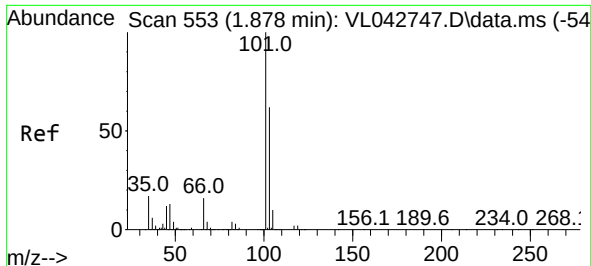
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#10
 Heptane
 Concen: 14.563 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

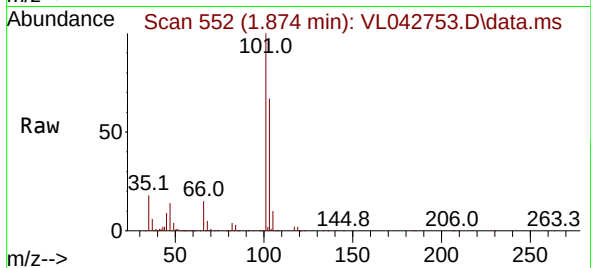
Tgt Ion: 43 Resp: 368612
 Ion Ratio Lower Upper
 43 100
 57 49.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 14.143 ppbv
RT: 1.874 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

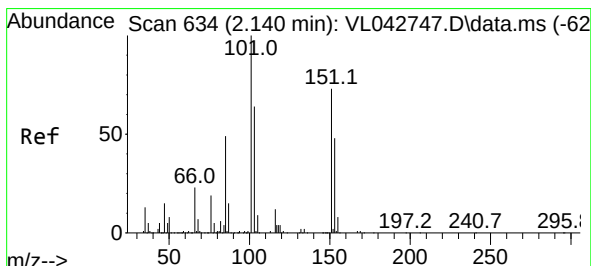
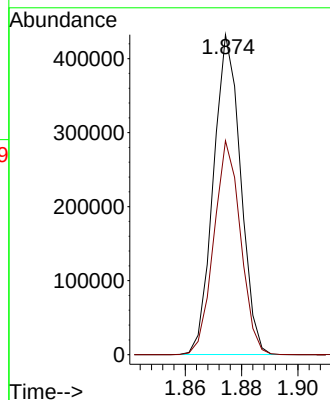
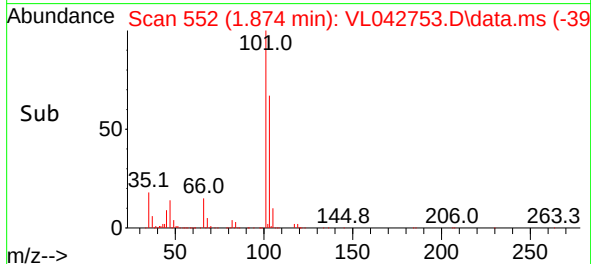
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



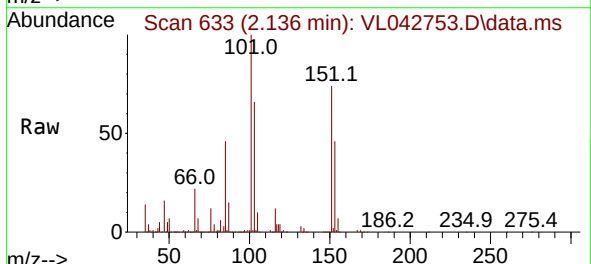
Tgt Ion:101 Resp: 289764
Ion Ratio Lower Upper
101 100
103 66.8 49.6 74.4

Manual Integrations
APPROVED

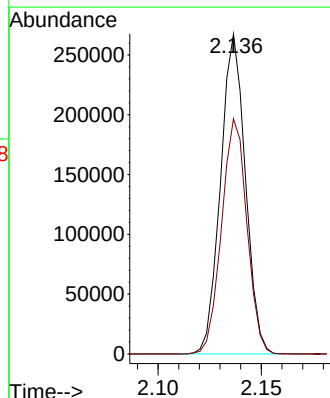
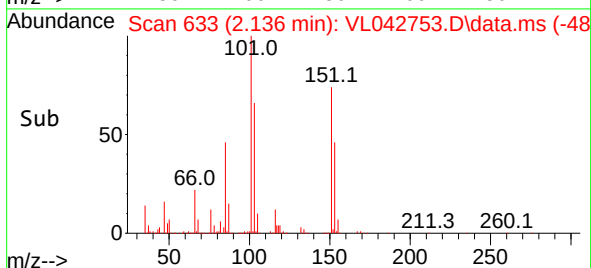
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

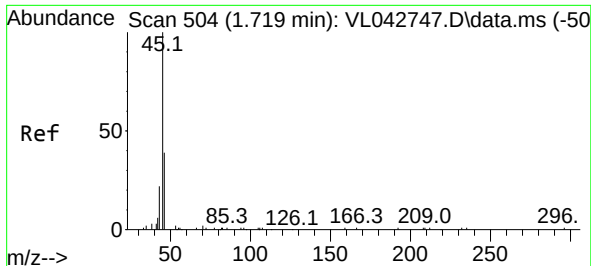


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.358 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



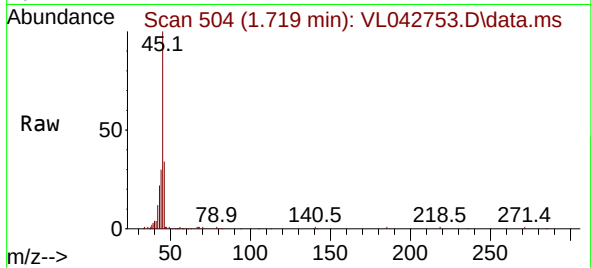
Tgt Ion:101 Resp: 223552
Ion Ratio Lower Upper
101 100
151 74.9 60.5 90.7





#13
Ethanol
Concen: 15.142 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

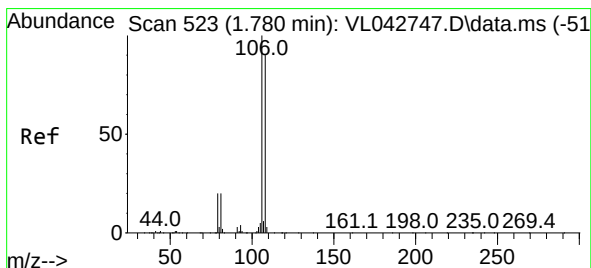
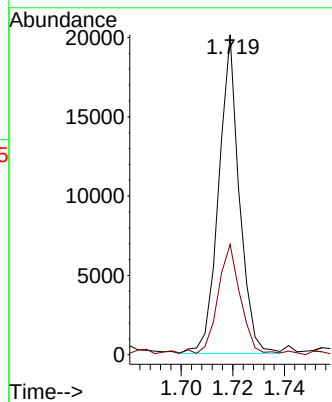
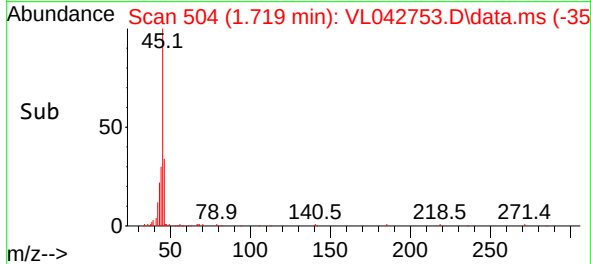
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



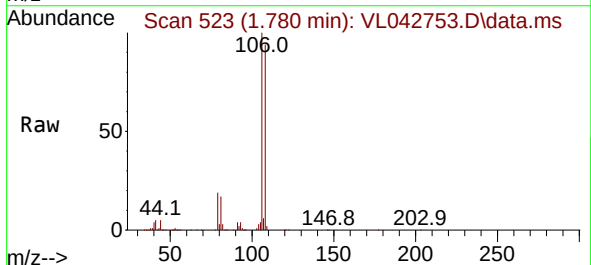
Tgt Ion: 45 Resp: 11145
Ion Ratio Lower Upper
45 100
46 35.4 17.8 71.4

Manual Integrations
APPROVED

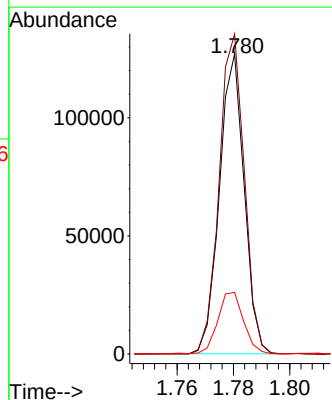
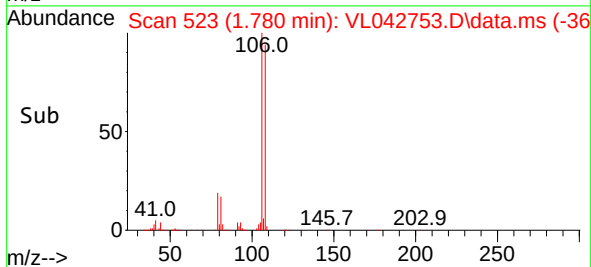
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

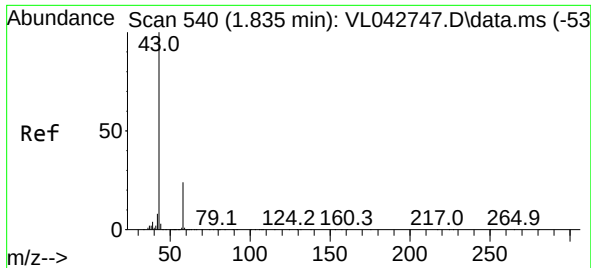


#14
Bromoethene
Concen: 14.047 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



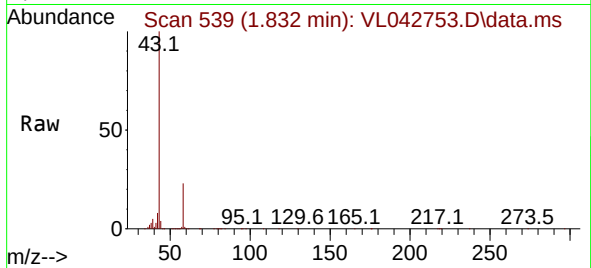
Tgt Ion:108 Resp: 77435
Ion Ratio Lower Upper
108 100
106 108.5 84.7 127.1
79 22.3 17.4 26.2





#15
Acetone
Concen: 11.449 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

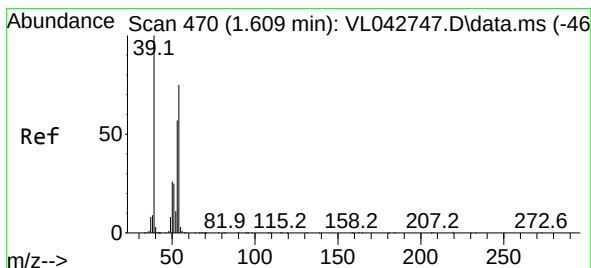
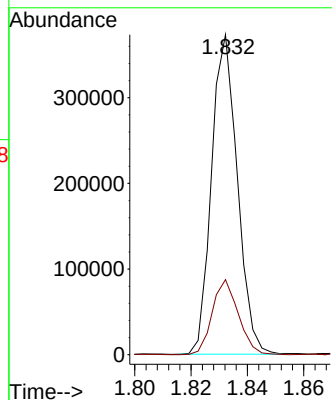
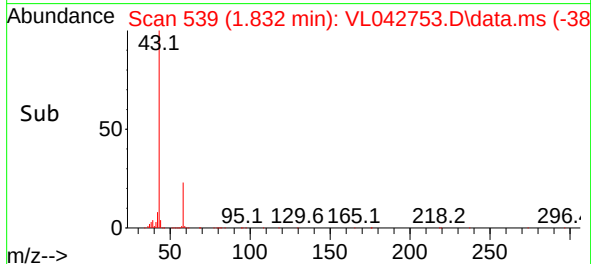
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 23766
Ion Ratio Lower Upper
43 100
58 24.0 19.8 29.8

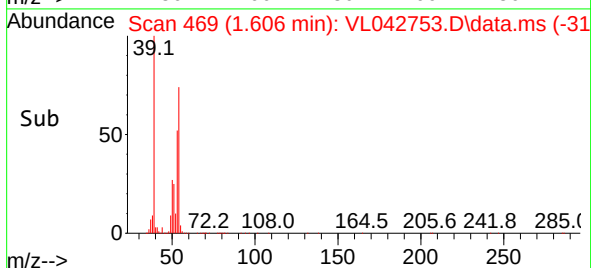
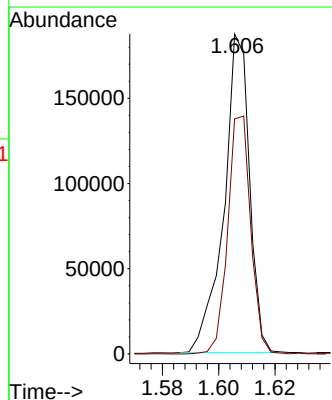
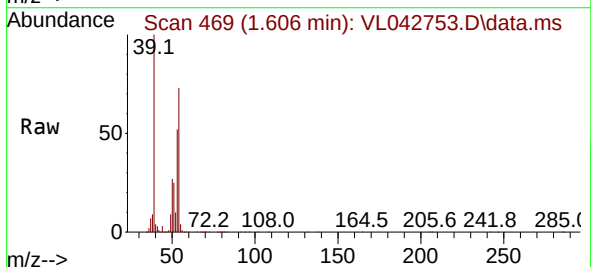
Manual Integrations
APPROVED

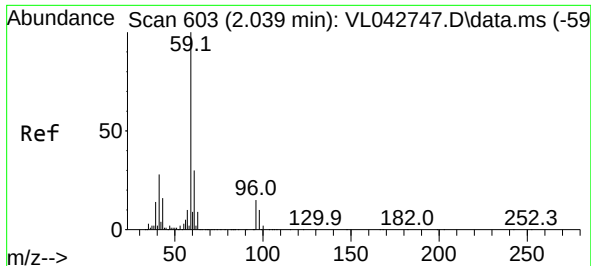
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#16
1,3-Butadiene
Concen: 13.355 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 39 Resp: 118252
Ion Ratio Lower Upper
39 100
54 67.5 54.5 81.7





#17

tert-Butyl alcohol

Concen: 13.919 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 26058

Ion Ratio Lower Upper

59 100

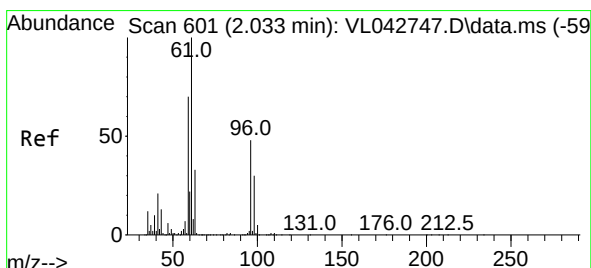
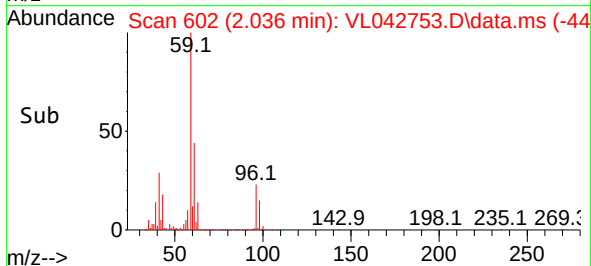
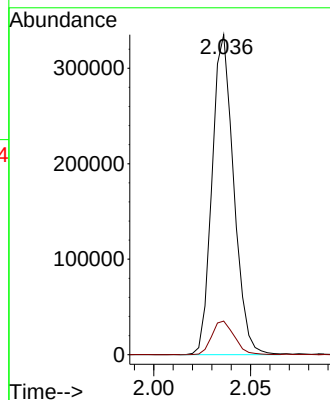
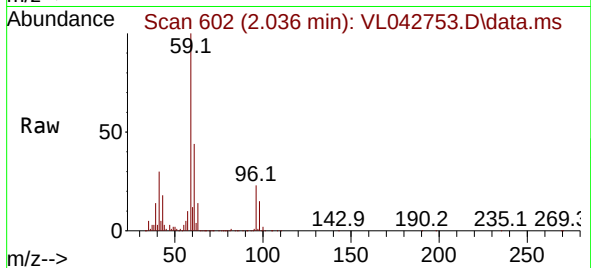
57 11.1 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 13.382 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

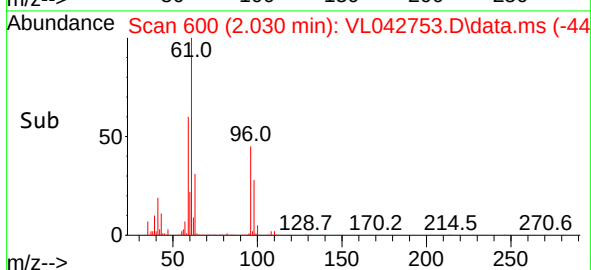
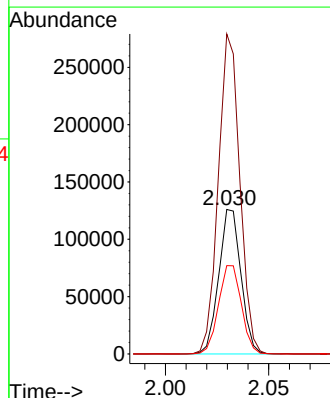
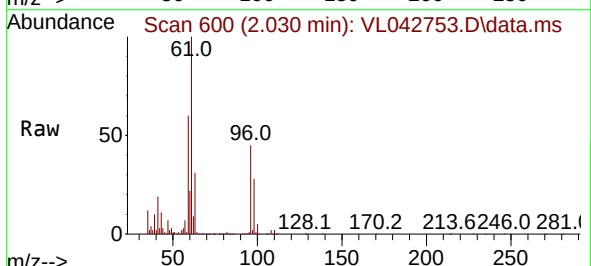
Tgt Ion: 96 Resp: 94140

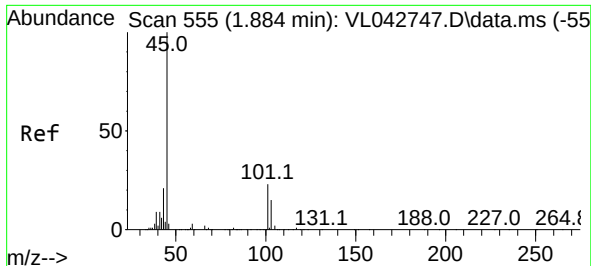
Ion Ratio Lower Upper

96 100

61 221.6 165.8 248.6

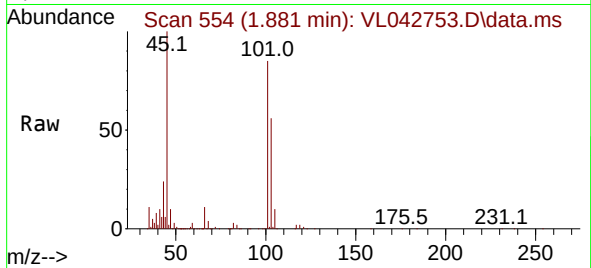
98 61.2 49.9 74.9





#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

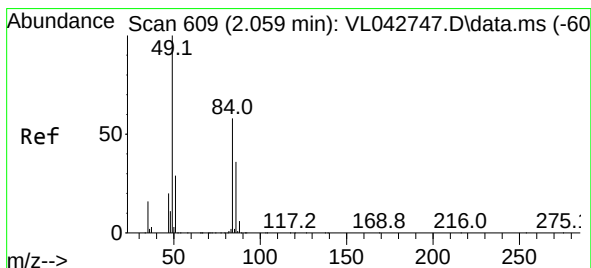
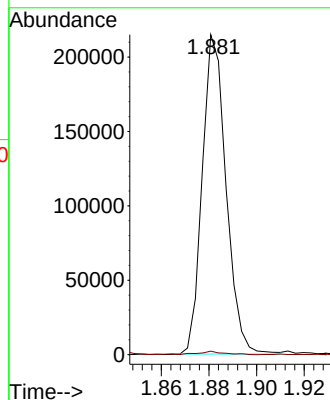
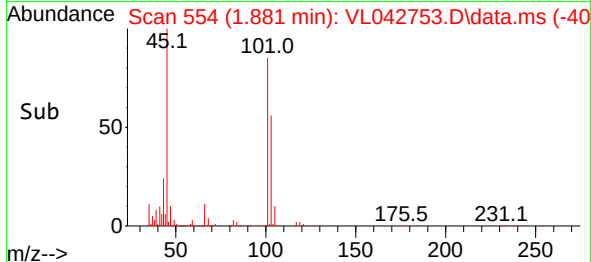
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015



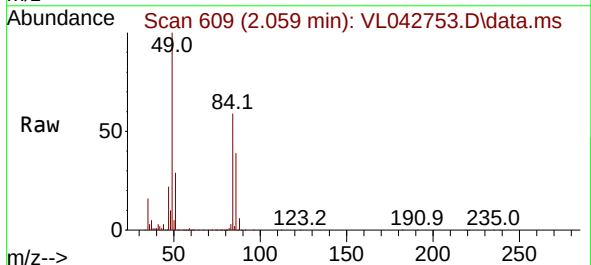
Tgt Ion: 45 Resp: 14946
Ion Ratio Lower Upper
45 100
58 38.1 30.0 45.0

Manual Integrations
APPROVED

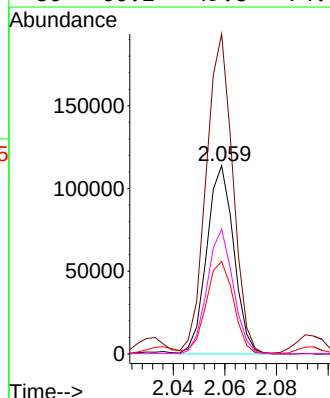
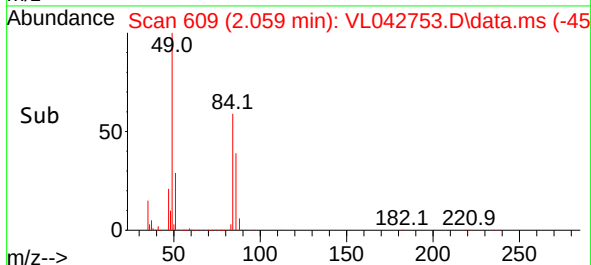
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

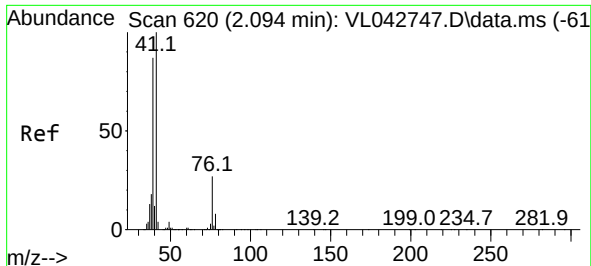


#20
Methylene Chloride
Concen: 12.651 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



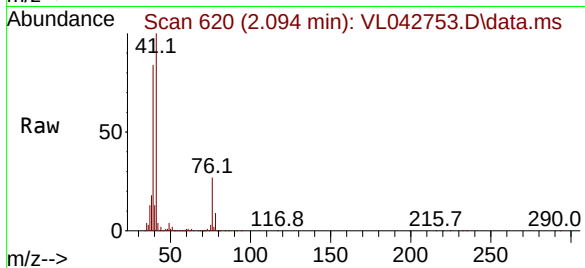
Tgt Ion: 84 Resp: 82755
Ion Ratio Lower Upper
84 100
49 169.2 138.6 208.0
51 48.6 40.6 61.0
86 66.2 49.8 74.8





#21
Allyl Chloride
Concen: 14.476 ppbv
RT: 2.094 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

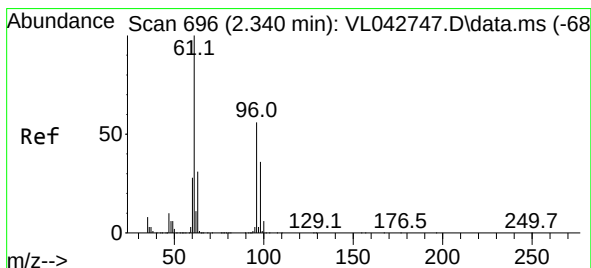
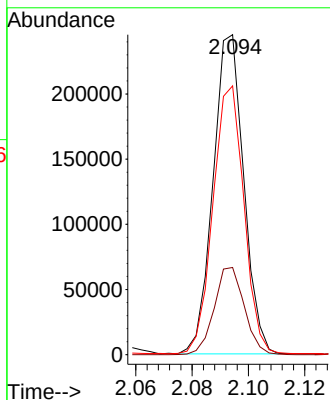
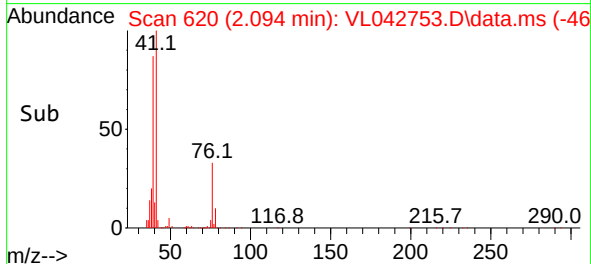
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



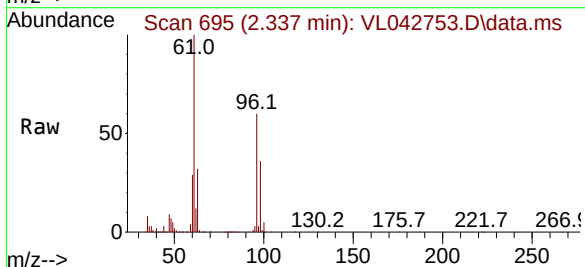
Tgt Ion: 41 Resp: 18520
Ion Ratio Lower Upper
41 100
76 26.9 21.1 31.7
39 85.2 68.3 102.5

Manual Integrations
APPROVED

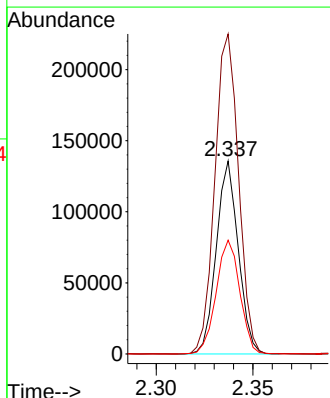
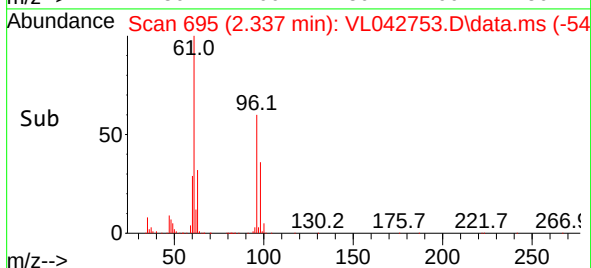
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

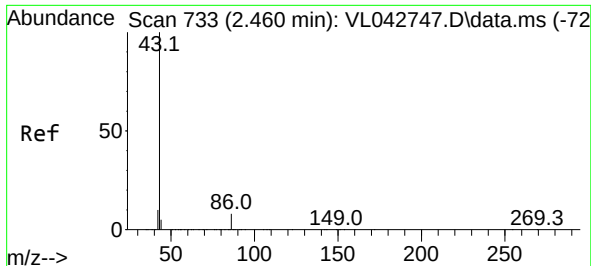


#22
trans-1,2-Dichloroethene
Concen: 14.160 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion: 96 Resp: 107003
Ion Ratio Lower Upper
96 100
61 165.9 142.3 213.5
98 59.0 50.6 76.0





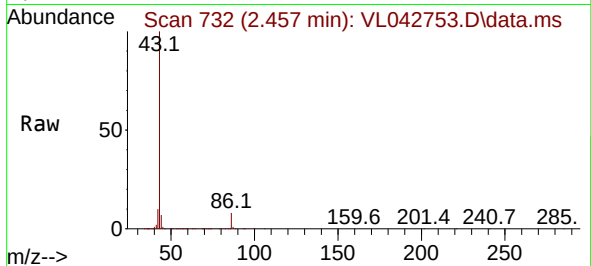
#23
 Vinyl Acetate
 Concen: 16.426 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

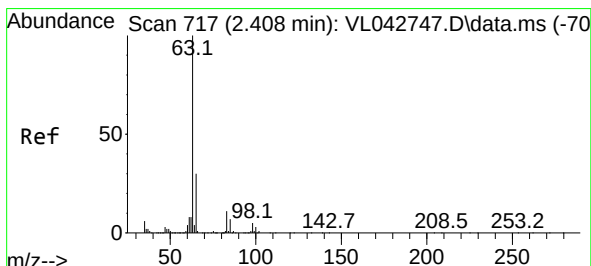
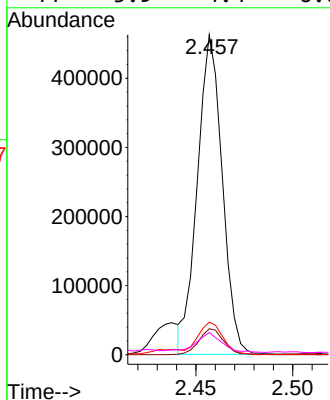
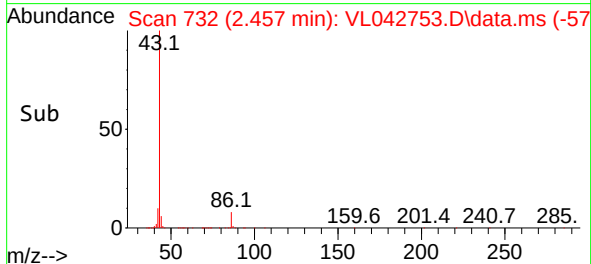


Tgt Ion: 43 Resp: 413378
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.1 9.1
 42 10.1 7.8 11.8
 44 5.9 4.4 6.6

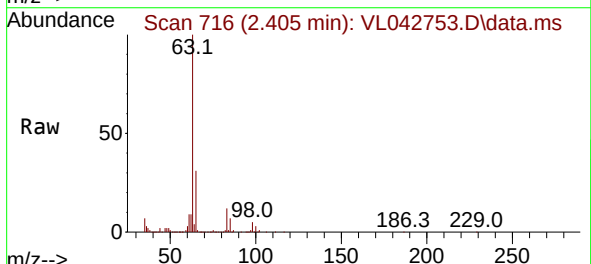
Manual Integrations

APPROVED

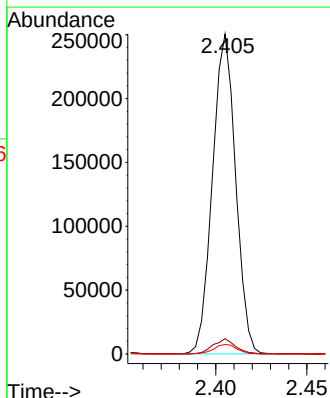
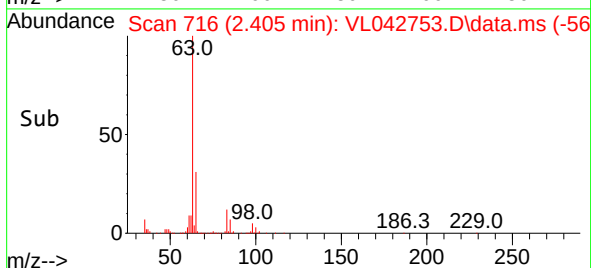
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

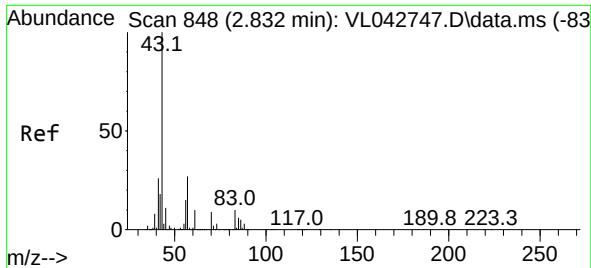


#24
 1,1-Dichloroethane
 Concen: 14.239 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



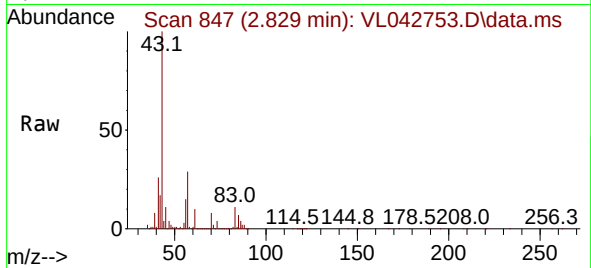
Tgt Ion: 63 Resp: 221175
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.5 7.4
 100 2.9 1.6 4.8





#25
Ethyl Acetate
Concen: 14.084 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

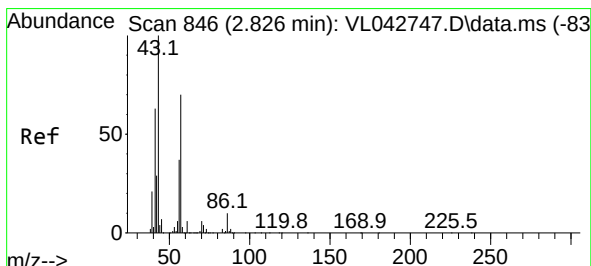
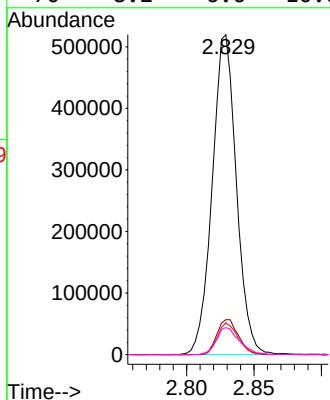
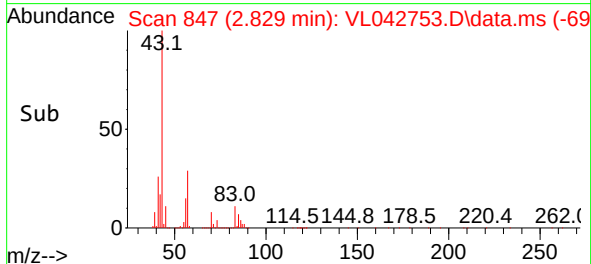
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 647150
Ion Ratio Lower Upper
43 100
45 10.0 7.8 11.6
61 8.6 6.7 10.1
70 8.2 6.6 10.0

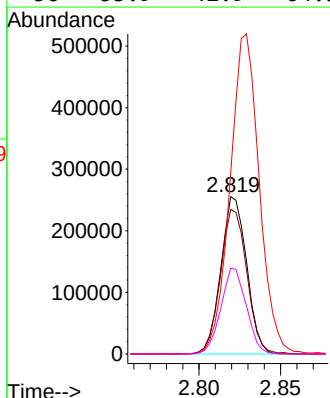
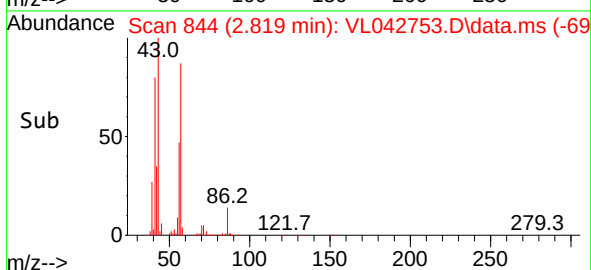
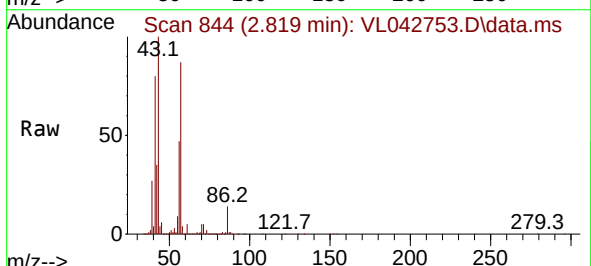
Manual Integrations
APPROVED

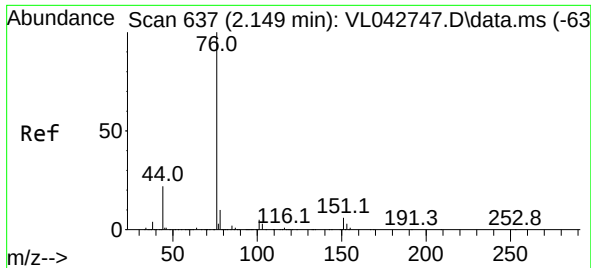
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 13.869 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 279549
Ion Ratio Lower Upper
57 100
41 94.6 75.4 113.2
43 232.7 185.0 277.6
56 53.9 42.9 64.3





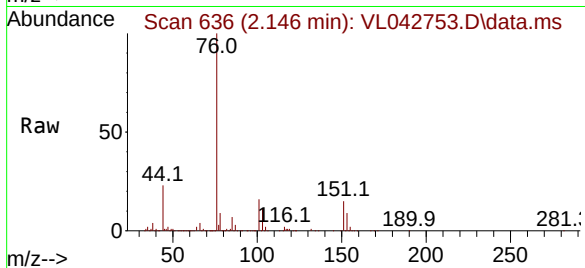
#27
Carbon Disulfide
Concen: 15.119 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

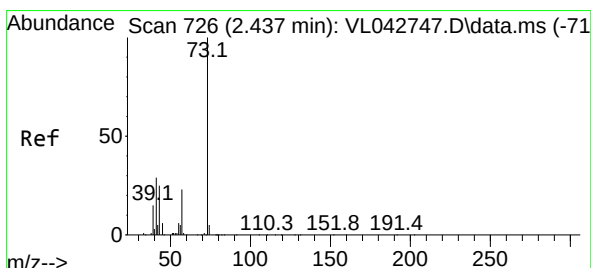
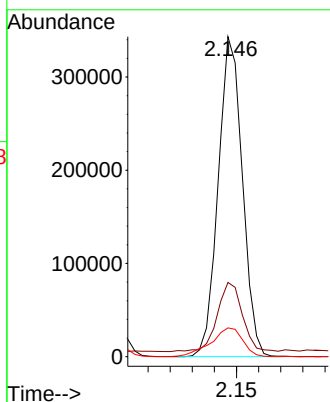
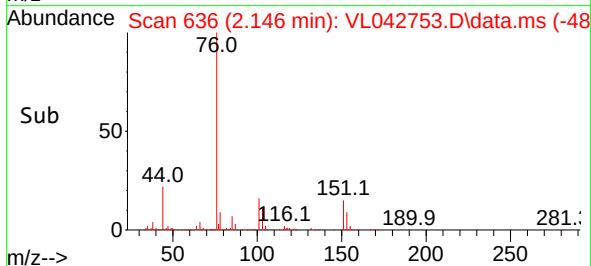


Tgt Ion: 76 Resp: 260884
Ion Ratio Lower Upper
76 100
44 23.1 19.3 28.9
78 11.9 9.9 14.9

Manual Integrations

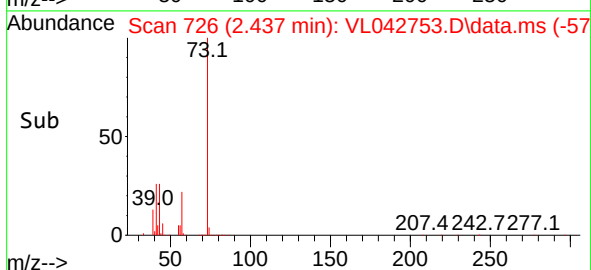
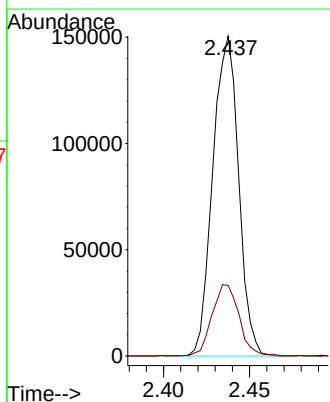
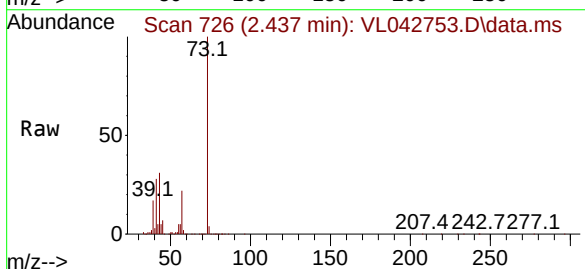
APPROVED

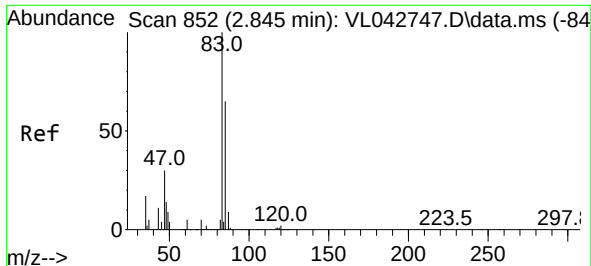
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 16.477 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 73 Resp: 156895
Ion Ratio Lower Upper
73 100
57 23.5 19.8 29.8





#29

Chloroform

Concen: 14.067 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 43815

Ion Ratio Lower Upper

83 100

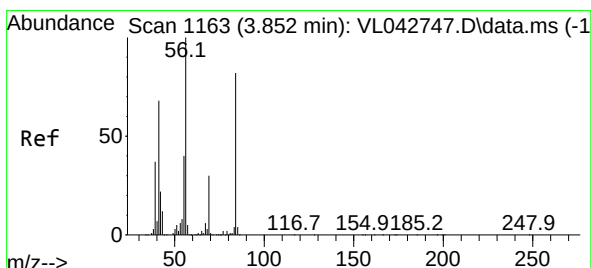
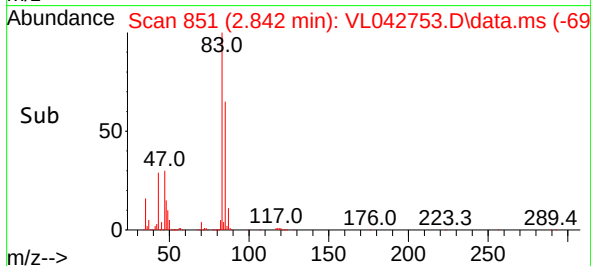
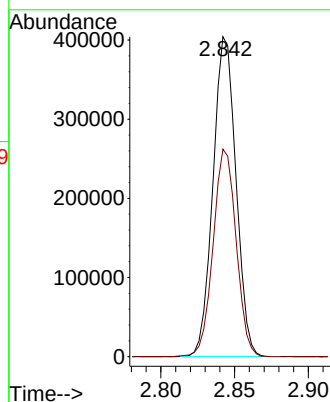
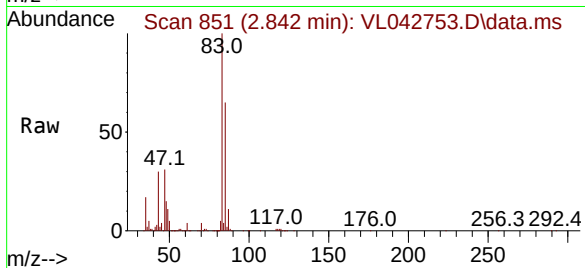
85 64.9 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 14.280 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

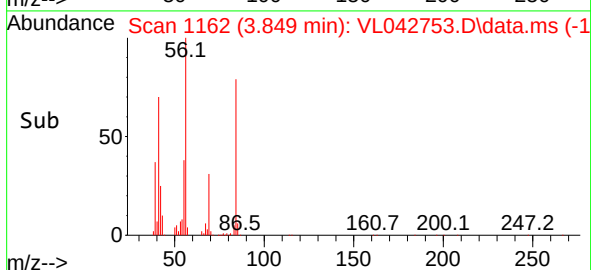
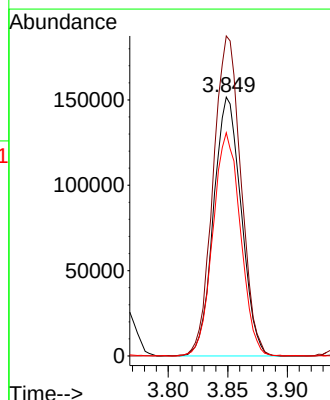
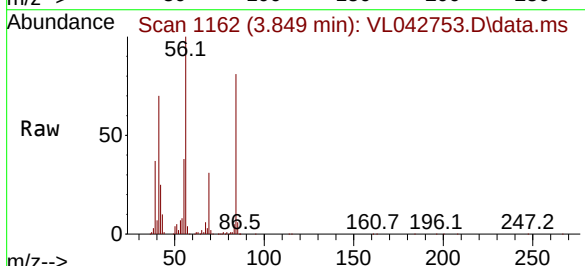
Tgt Ion: 84 Resp: 244116

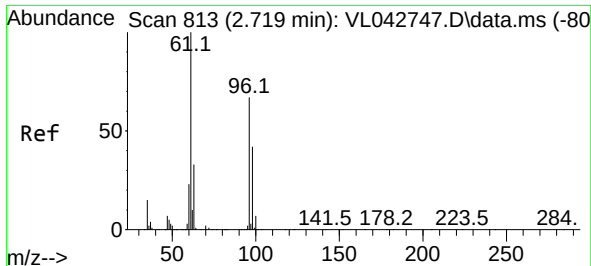
Ion Ratio Lower Upper

84 100

56 124.4 97.5 146.3

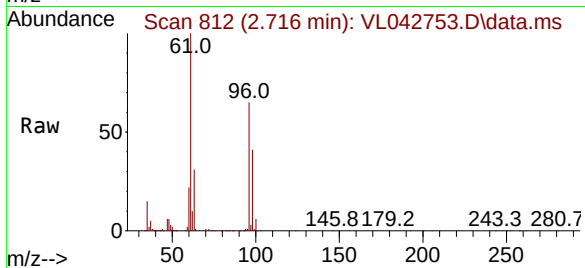
41 85.9 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 14.192 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

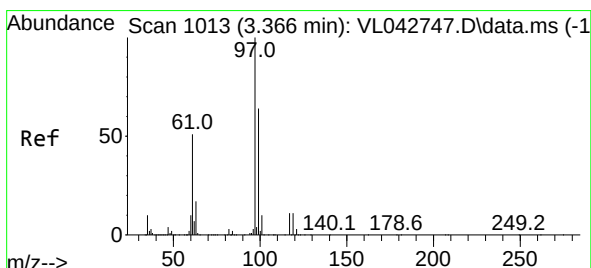
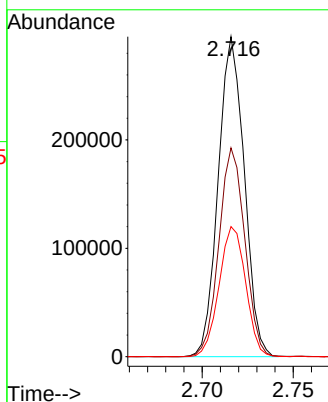
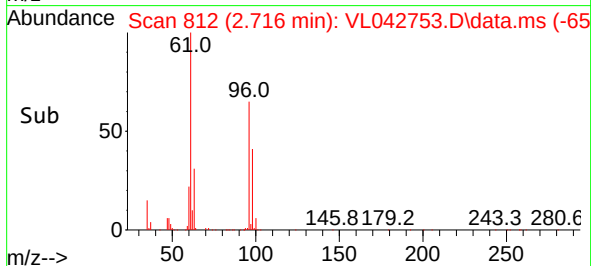
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



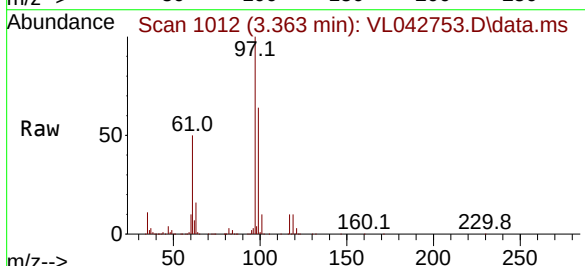
Tgt Ion: 61 Resp: 29394
 Ion Ratio Lower Upper
 61 100
 96 65.3 53.5 80.3
 98 40.7 33.6 50.4

Manual Integrations
 APPROVED

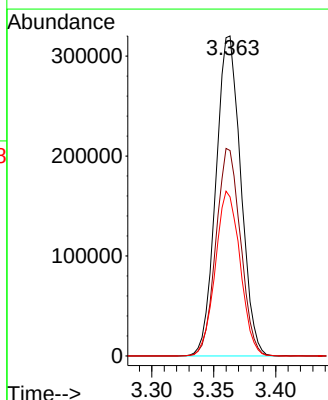
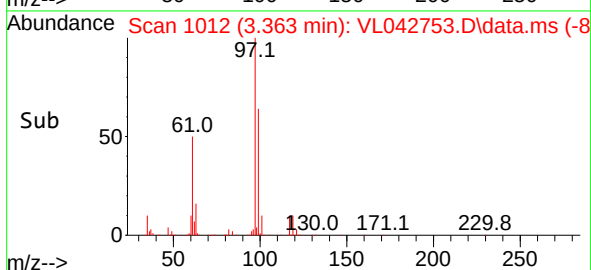
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

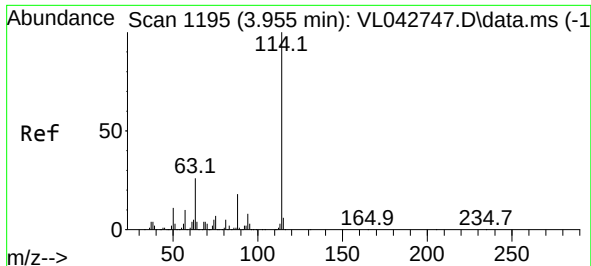


#32
 1,1,1-Trichloroethane
 Concen: 13.796 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



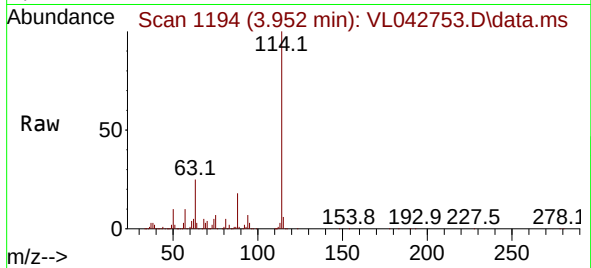
Tgt Ion: 97 Resp: 447592
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.6
 61 51.5 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

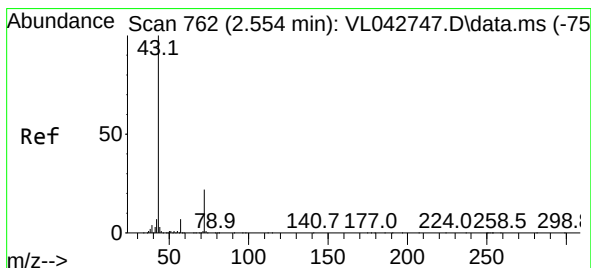
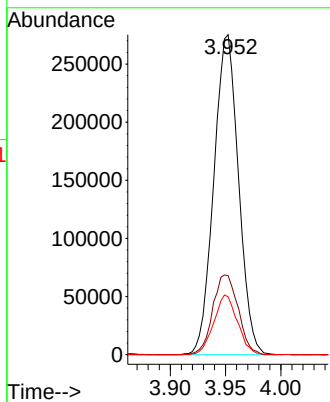
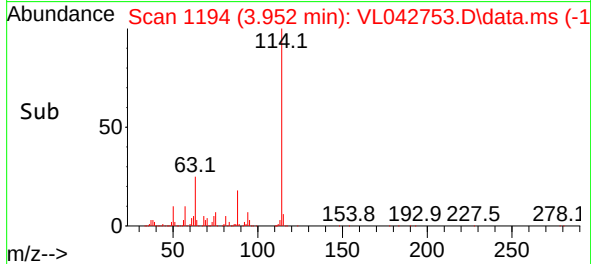
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



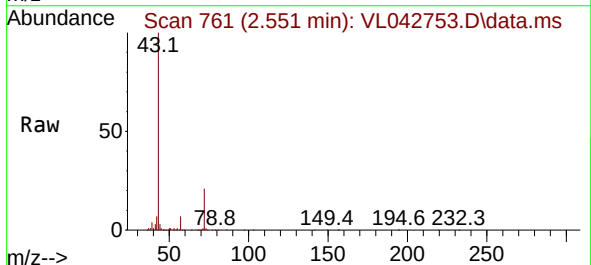
Tgt Ion:114 Resp: 427438
Ion Ratio Lower Upper
114 100
63 25.7 20.5 30.7
88 17.9 14.0 21.0

Manual Integrations
APPROVED

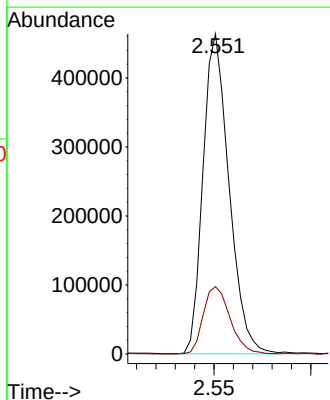
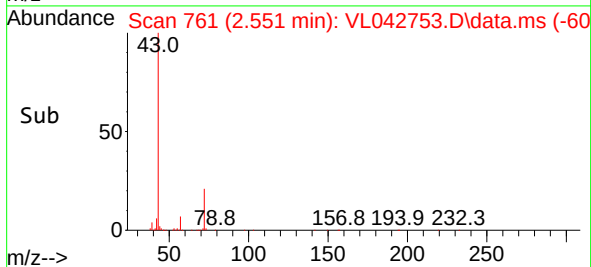
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

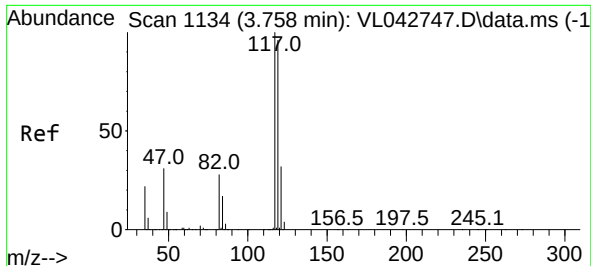


#34
2-Butanone
Concen: 14.297 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



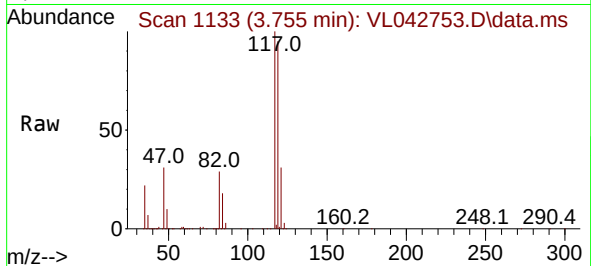
Tgt Ion: 43 Resp: 432873
Ion Ratio Lower Upper
43 100
72 21.8 17.4 26.0





#35
Carbon Tetrachloride
Concen: 14.764 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

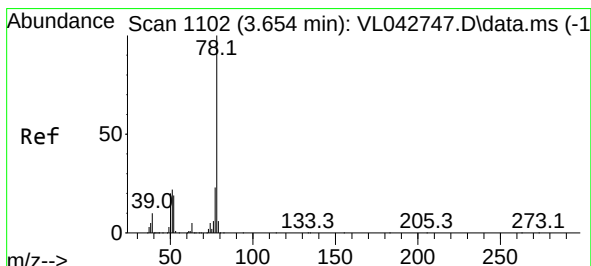
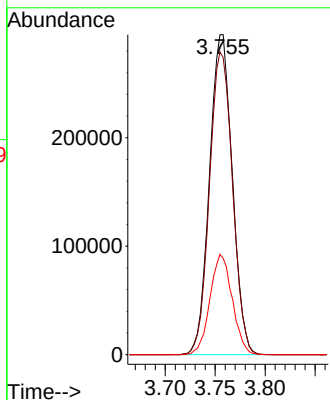
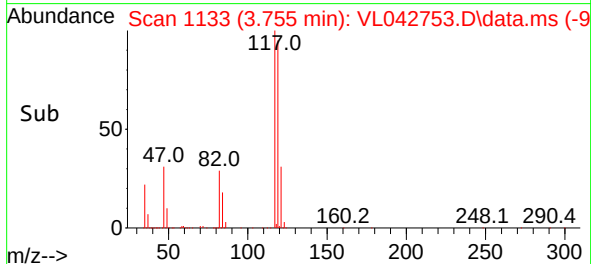
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion:117 Resp: 46895
Ion Ratio Lower Upper
117 100
119 94.6 77.1 115.7
121 31.4 25.5 38.3

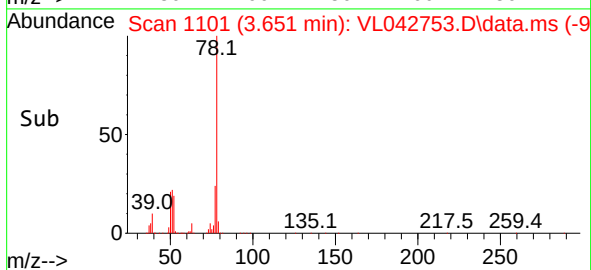
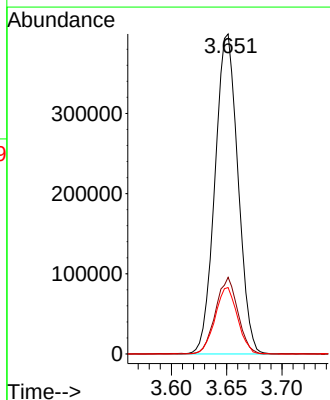
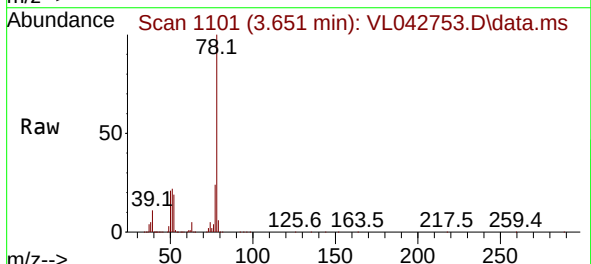
Manual Integrations
APPROVED

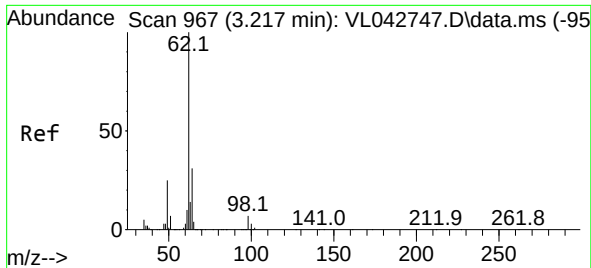
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36
Benzene
Concen: 14.247 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 78 Resp: 577153
Ion Ratio Lower Upper
78 100
77 23.9 18.5 27.7
50 20.7 16.2 24.2





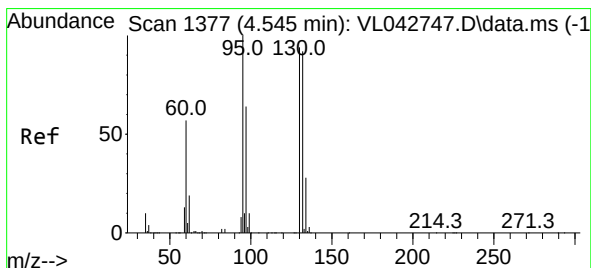
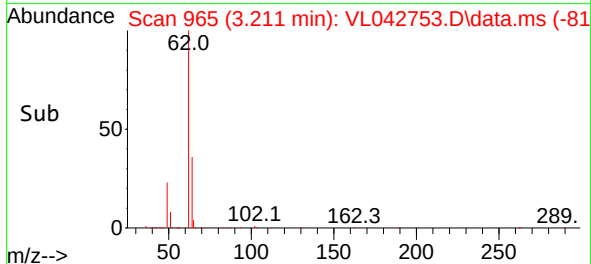
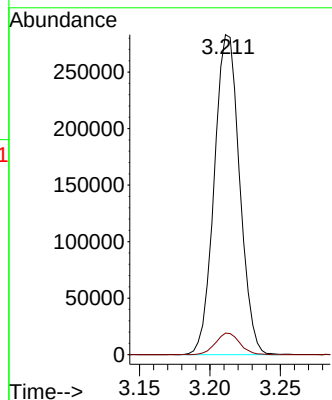
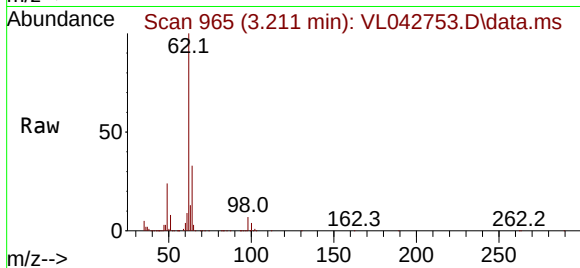
#37
1,2-Dichloroethane
Concen: 14.533 ppbv
RT: 3.211 min Scan# 965
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 35463
Ion Ratio Lower Upper
62 100
98 6.5 5.2 7.8

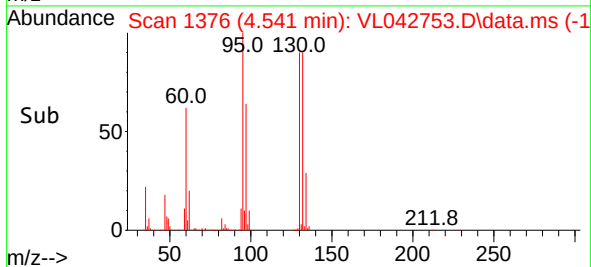
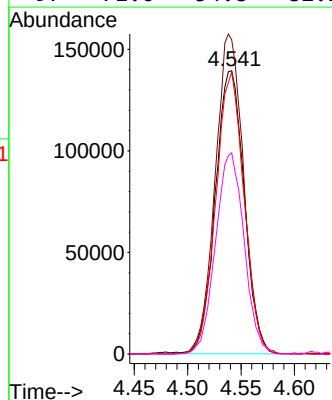
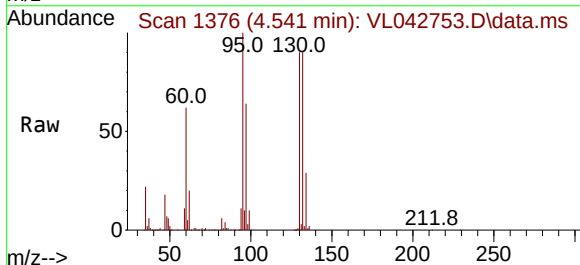
Manual Integrations
APPROVED

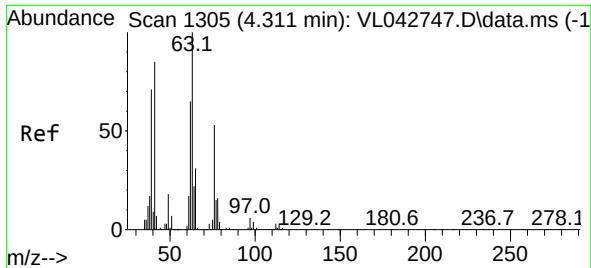
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 13.416 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:130 Resp: 262041
Ion Ratio Lower Upper
130 100
95 110.8 85.4 128.2
132 99.5 78.2 117.2
97 71.0 54.8 82.2





#39

1,2-Dichloropropane

Concen: 14.150 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 63 Resp: 211594

Ion Ratio Lower Upper

63 100

41 85.0 68.2 102.4

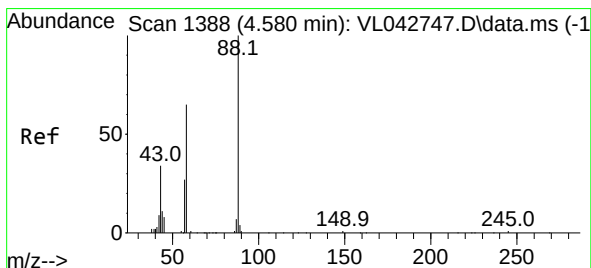
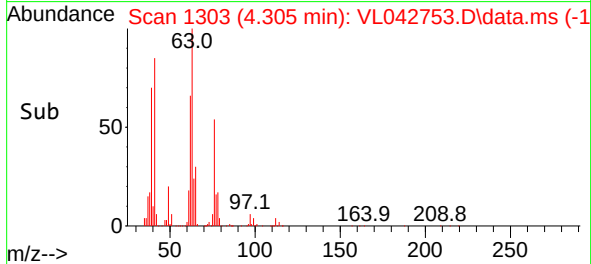
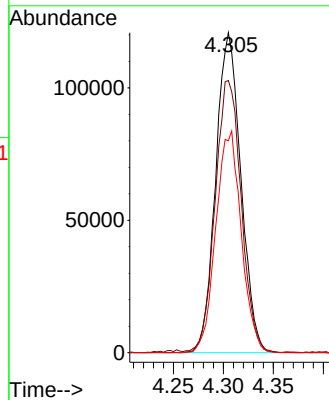
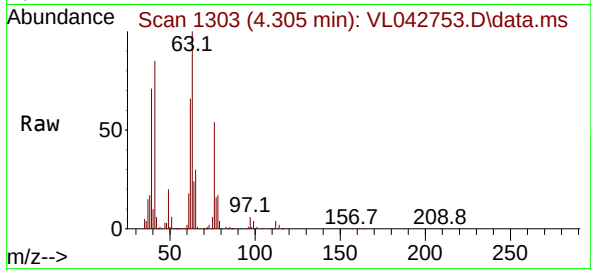
62 66.2 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 13.926 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. -0.013 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion: 88 Resp: 98196

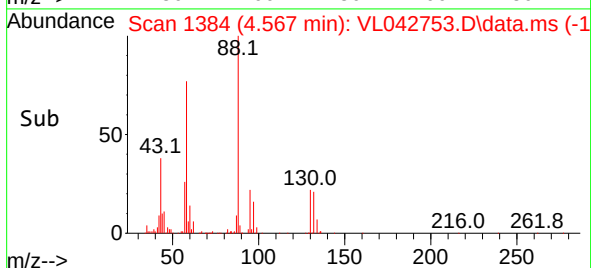
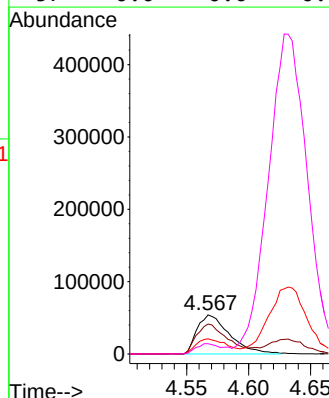
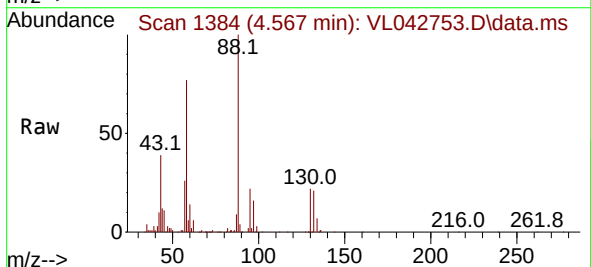
Ion Ratio Lower Upper

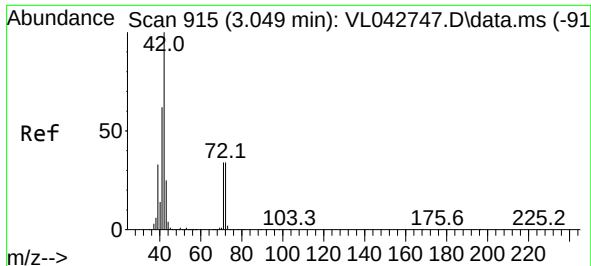
88 100

58 71.9 58.8 88.2

43 35.8 28.9 43.3

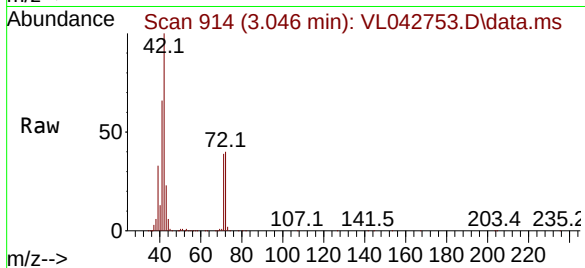
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 15.278 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

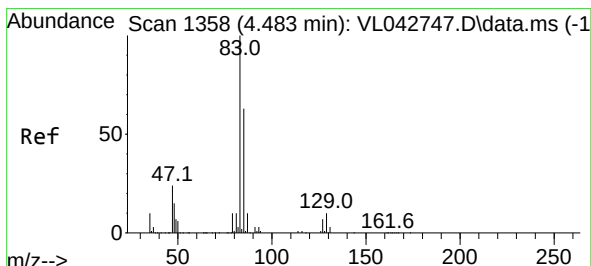
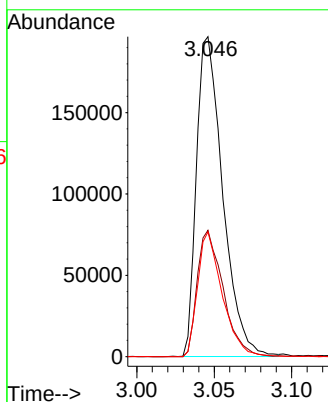
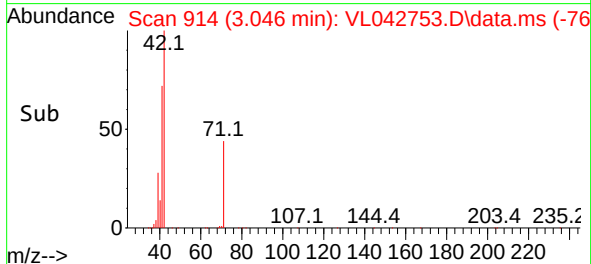
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



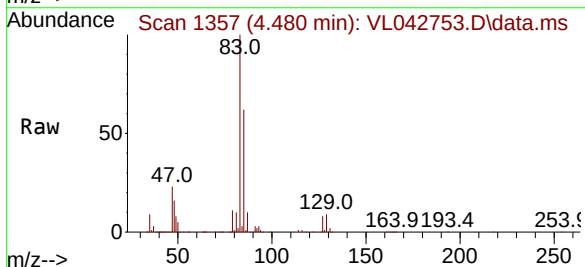
Tgt Ion: 42 Resp: 232391
Ion Ratio Lower Upper
42 100
72 39.2 30.9 46.3
71 36.6 28.6 43.0

Manual Integrations
APPROVED

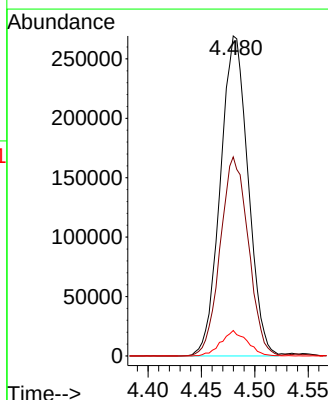
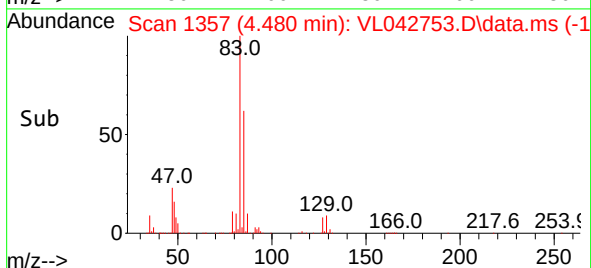
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

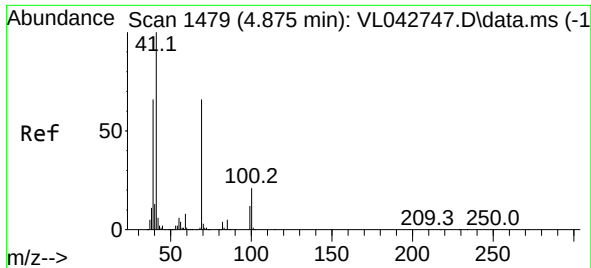


#42
Bromodichloromethane
Concen: 15.303 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



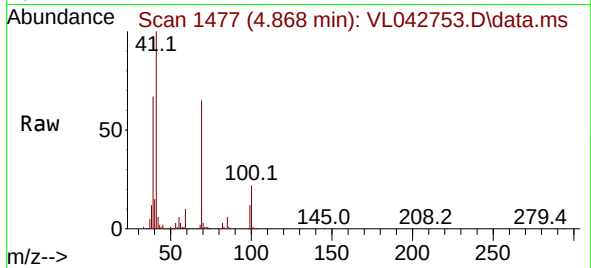
Tgt Ion: 83 Resp: 486831
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.0 5.4 8.2





#43
Methyl Methacrylate
Concen: 16.059 ppbv
RT: 4.868 min Scan# 1479
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

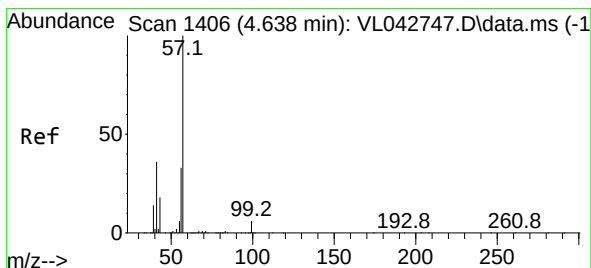
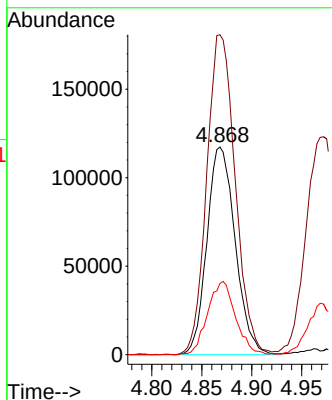
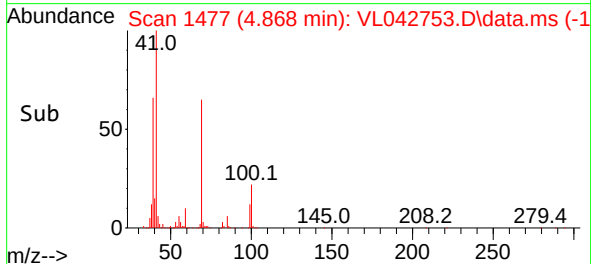
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



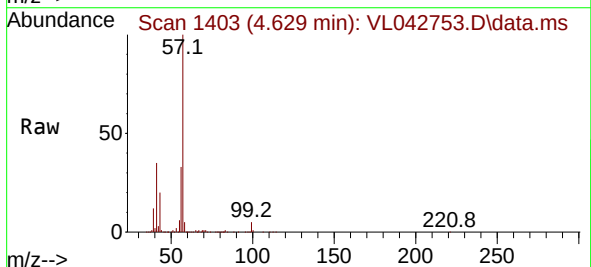
Tgt Ion: 69 Resp: 231227
Ion Ratio Lower Upper
69 100
41 155.0 125.7 188.5
100 34.8 28.6 42.8

Manual Integrations
APPROVED

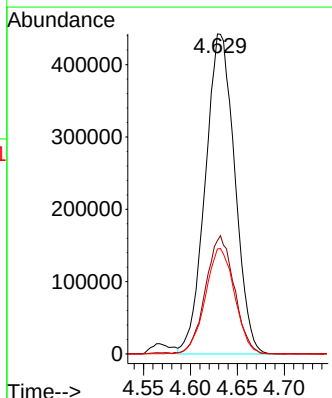
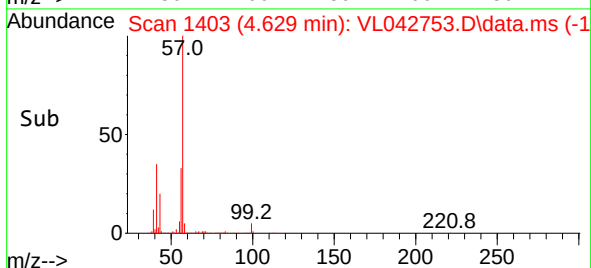
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

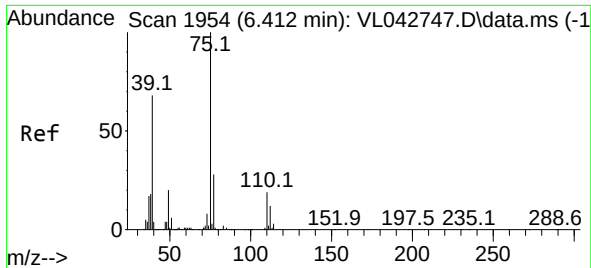


#44
2,2,4-Trimethylpentane
Concen: 14.598 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



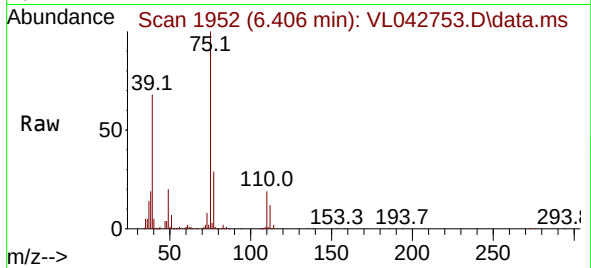
Tgt Ion: 57 Resp: 963867
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.9 25.8 38.6





#45
t-1,3-Dichloropropene
Concen: 16.478 ppbv
RT: 6.406 min Scan# 1954
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

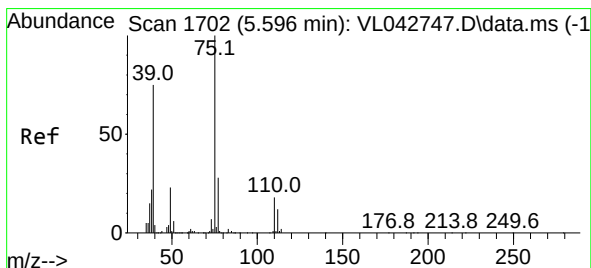
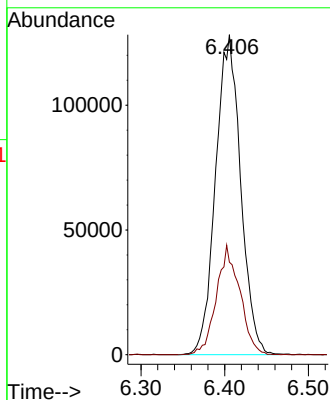
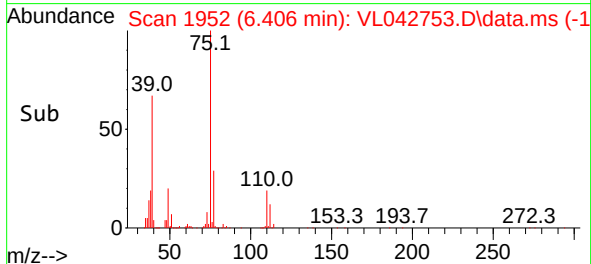
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 75 Resp: 266194
Ion Ratio Lower Upper
75 100
77 28.9 22.4 33.6

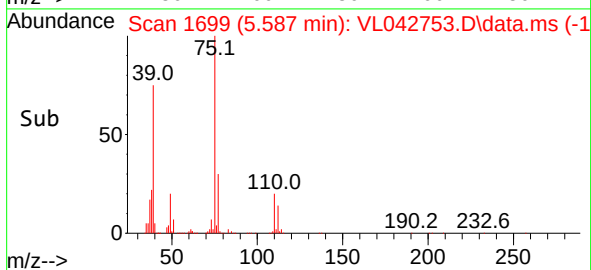
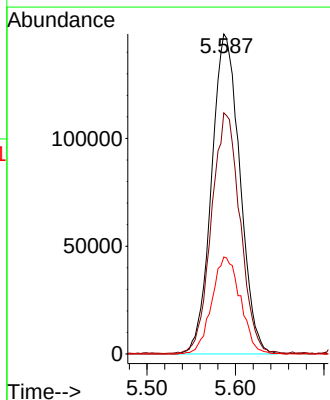
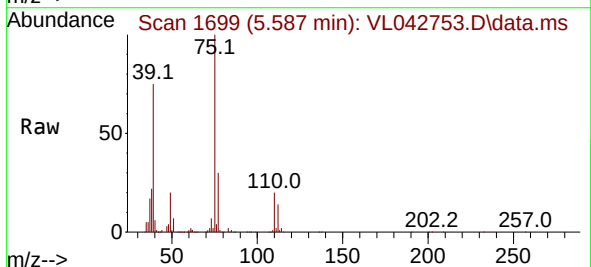
Manual Integrations
APPROVED

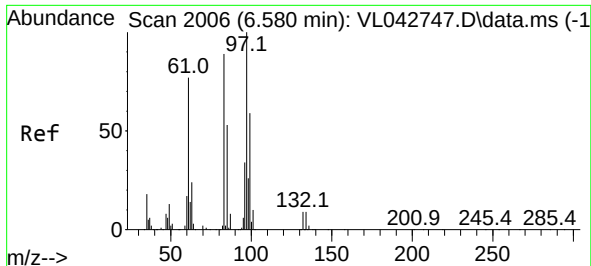
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 16.115 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

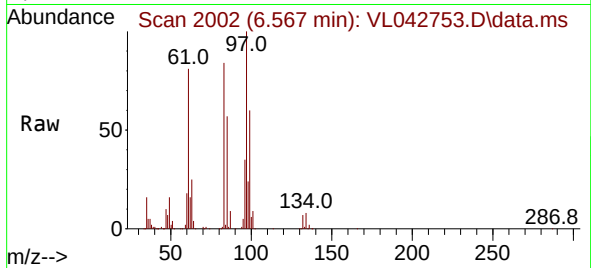
Tgt Ion: 75 Resp: 329850
Ion Ratio Lower Upper
75 100
39 74.8 60.2 90.2
77 30.2 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 14.335 ppbv
RT: 6.567 min Scan# 2006
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

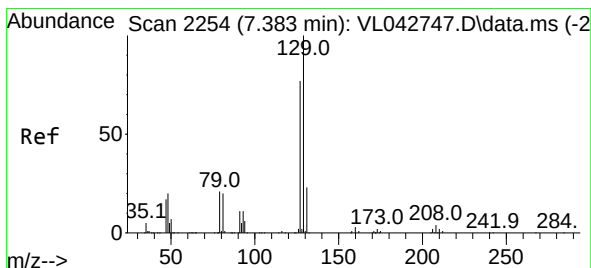
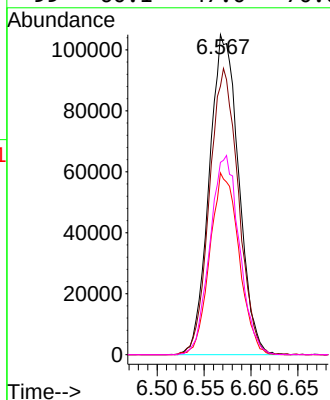
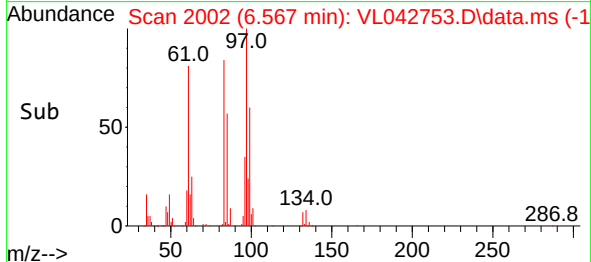
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 97 Resp: 228492
Ion Ratio Lower Upper
97 100
83 83.7 71.1 106.7
85 56.7 43.0 64.4
99 60.1 47.0 70.6

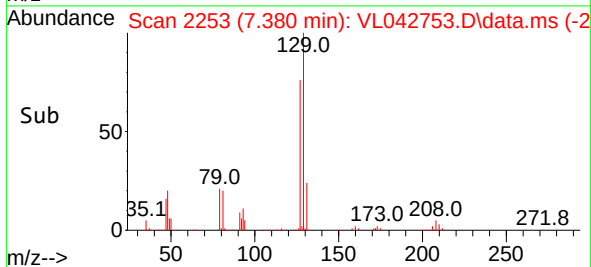
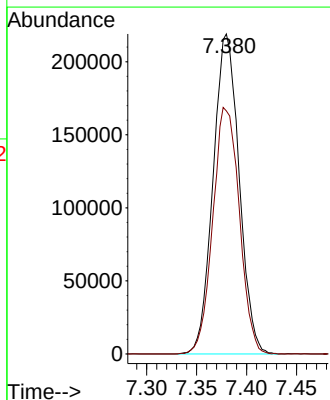
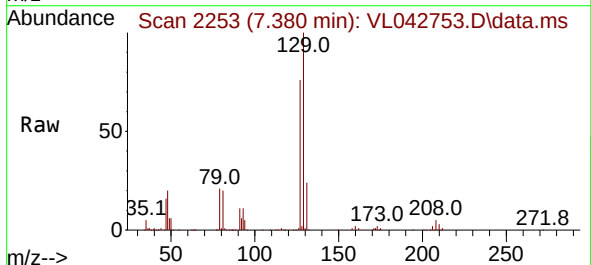
Manual Integrations
APPROVED

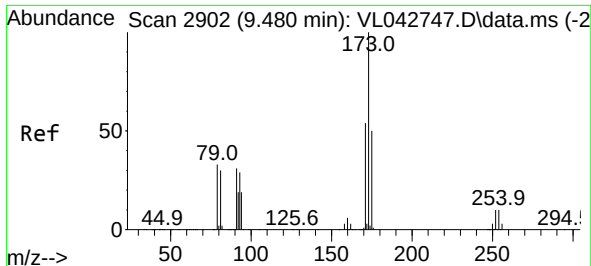
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#48
Dibromochloromethane
Concen: 15.695 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

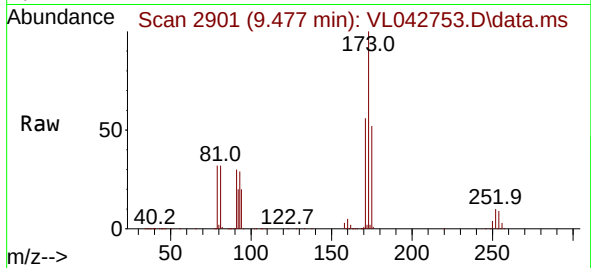
Tgt Ion:129 Resp: 397179
Ion Ratio Lower Upper
129 100
127 78.5 38.7 116.1





#49
Bromoform
Concen: 15.955 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

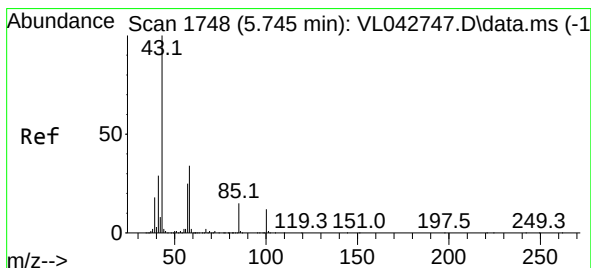
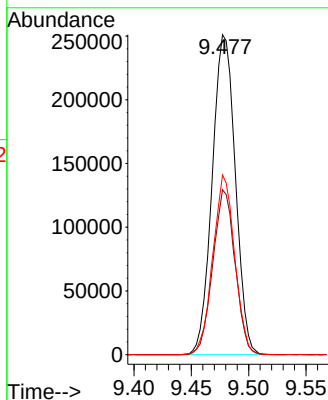
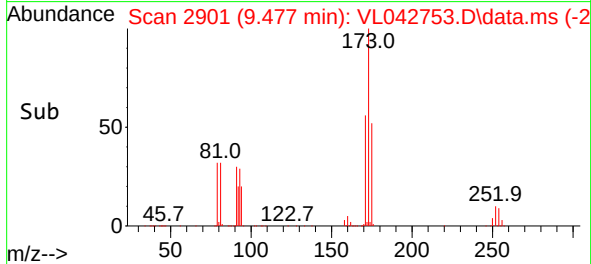
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:173 Resp: 352050
Ion Ratio Lower Upper
173 100
175 49.6 38.4 57.6
171 53.1 40.9 61.3

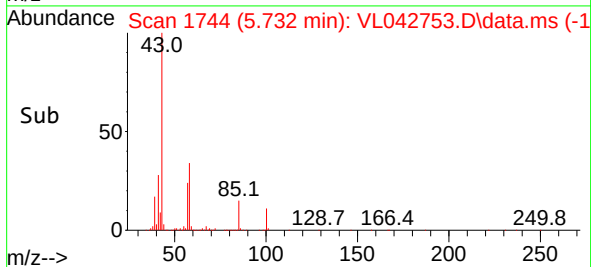
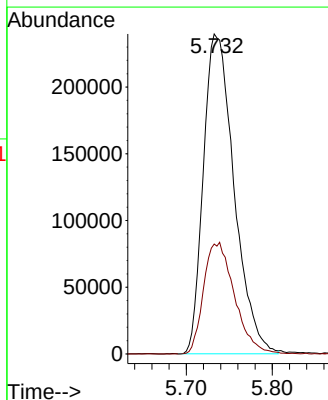
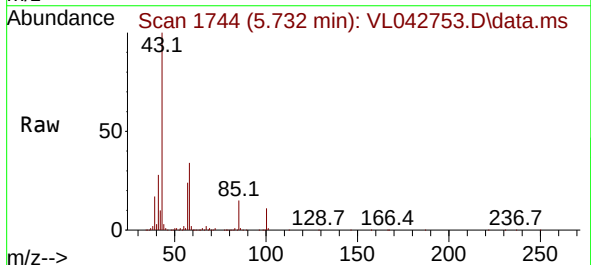
Manual Integrations
APPROVED

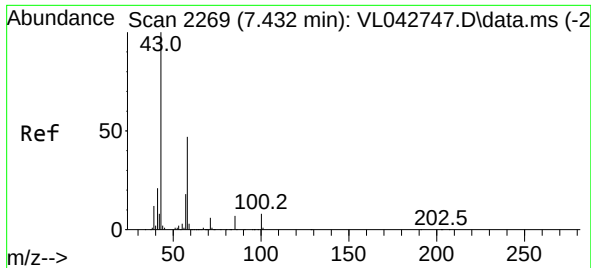
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50
4-Methyl-2-Pentanone
Concen: 15.427 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

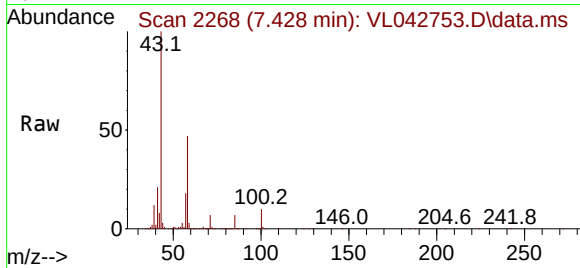
Tgt Ion: 43 Resp: 594973
Ion Ratio Lower Upper
43 100
58 35.1 27.8 41.8





#51
2-Hexanone
Concen: 16.467 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

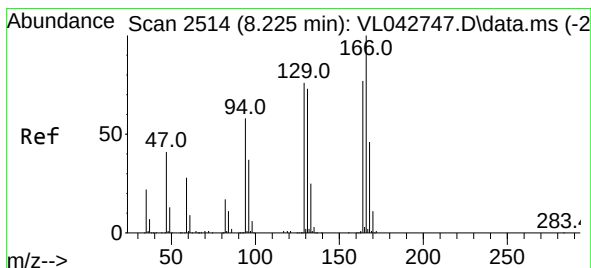
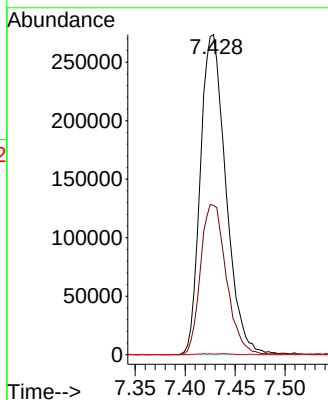
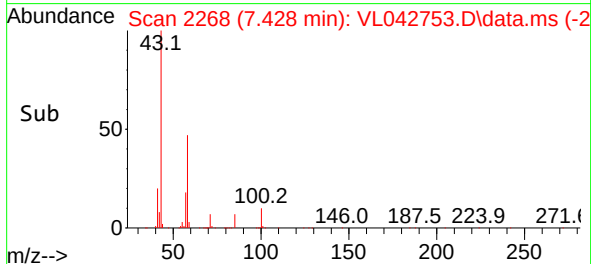
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



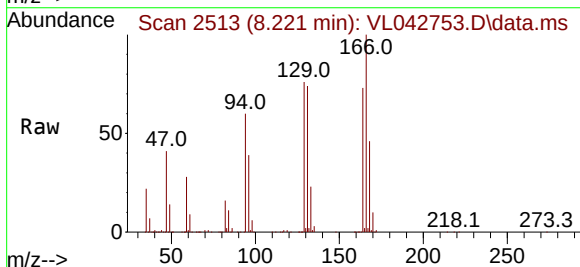
Tgt Ion: 43 Resp: 48532
Ion Ratio Lower Upper
43 100
58 47.7 38.0 57.0
98 0.4 0.2 0.4

Manual Integrations
APPROVED

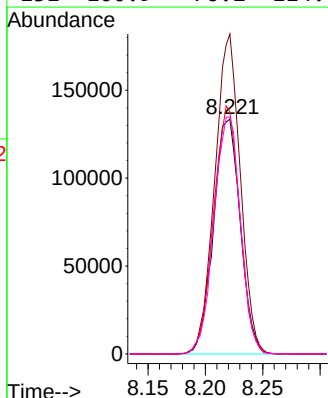
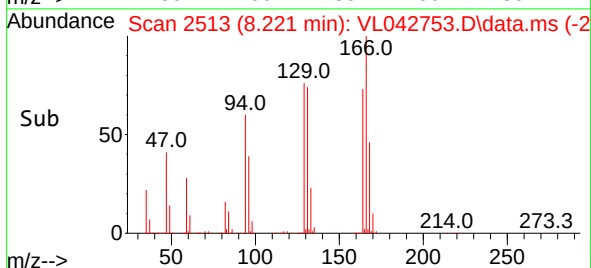
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

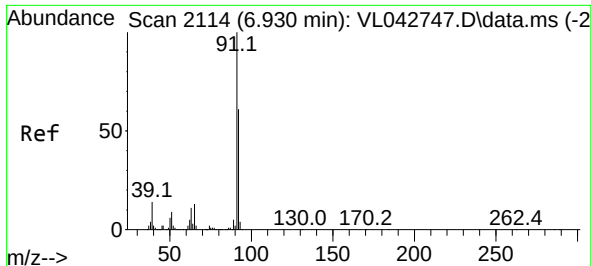


#52
Tetrachloroethene
Concen: 12.899 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:164 Resp: 217184
Ion Ratio Lower Upper
164 100
166 136.3 104.0 156.0
129 103.1 79.2 118.8
131 100.9 76.2 114.4





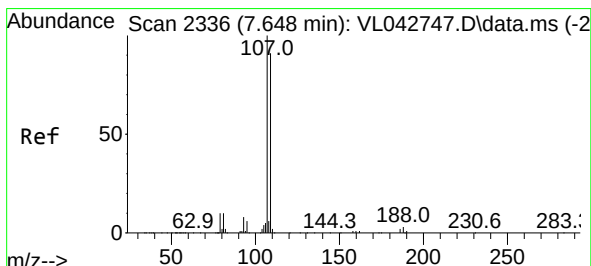
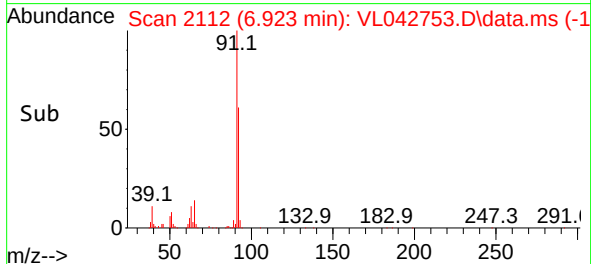
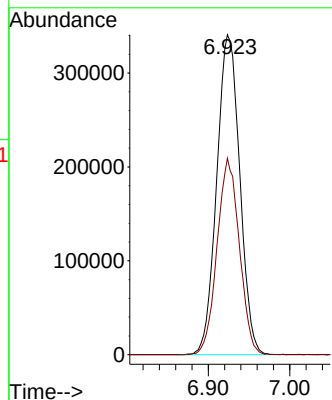
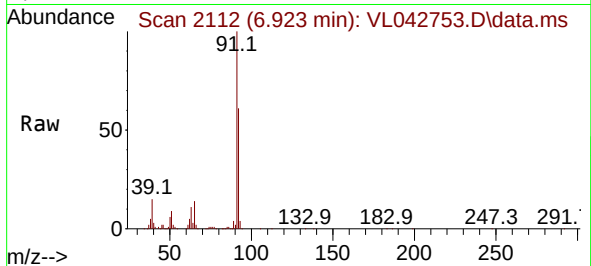
#53
Toluene
Concen: 15.405 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 67014
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0

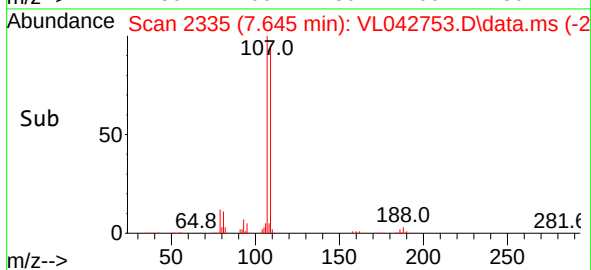
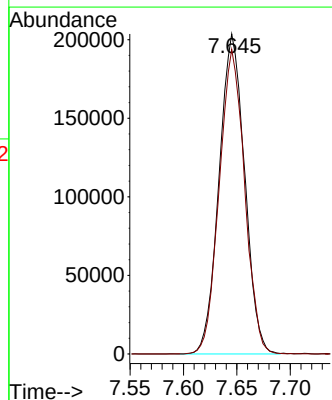
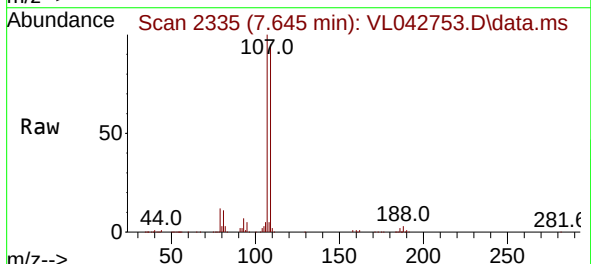
Manual Integrations
APPROVED

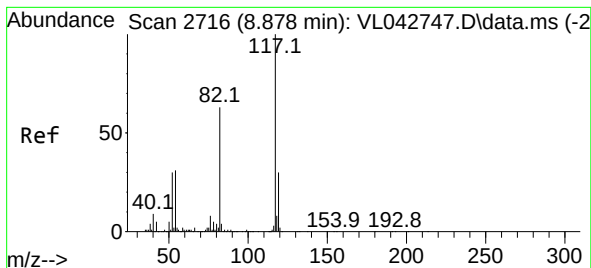
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 15.019 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:107 Resp: 338867
Ion Ratio Lower Upper
107 100
109 95.1 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2716

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

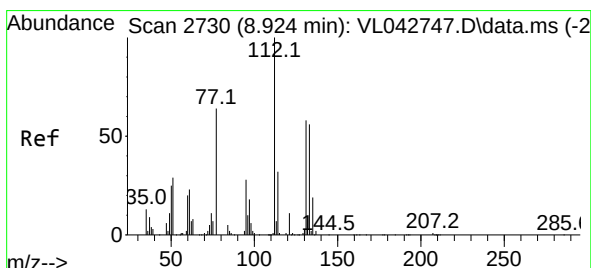
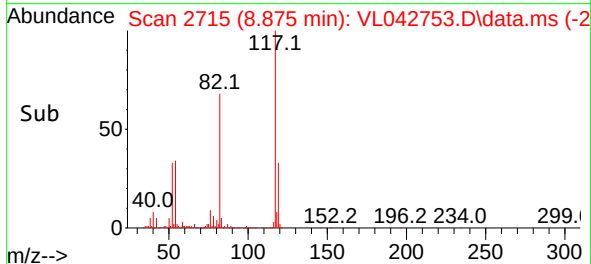
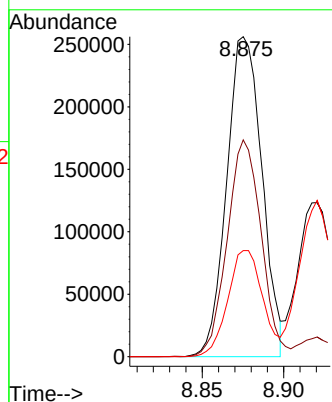
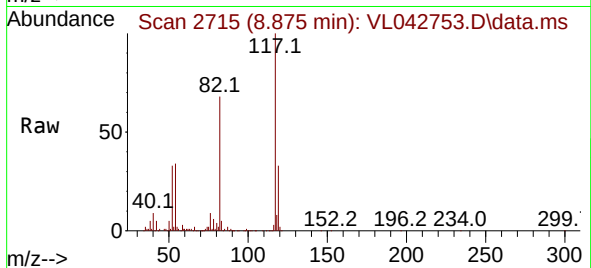
Tgt Ion:117 Resp: 38522

Ion	Ratio	Lower	Upper
117	100		
82	71.0	53.3	79.9
119	32.3	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 14.648 ppbv

RT: 8.920 min Scan# 2729

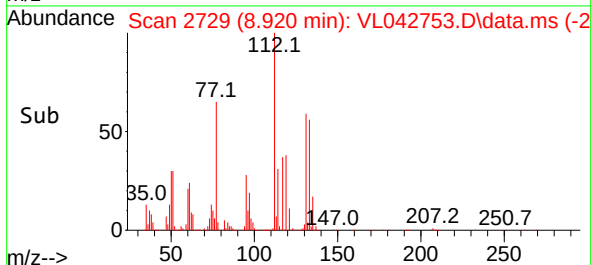
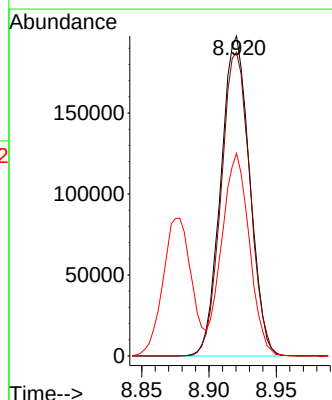
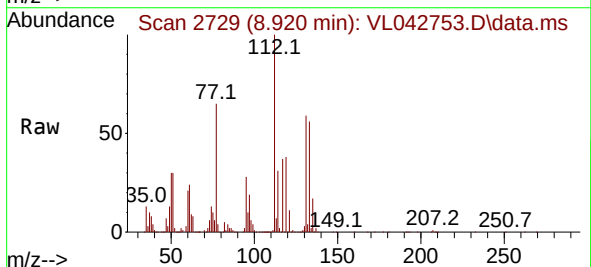
Delta R.T. -0.003 min

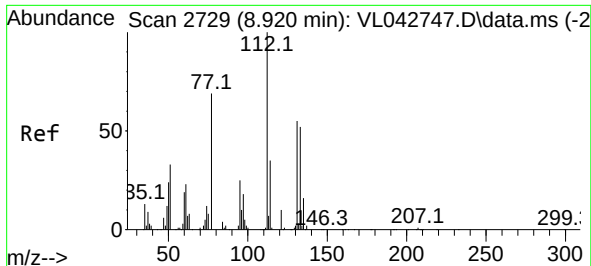
Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:131 Resp: 293384

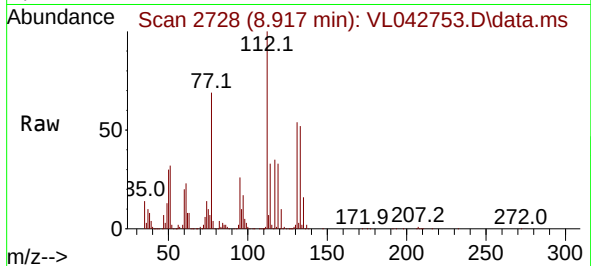
Ion	Ratio	Lower	Upper
131	100		
133	95.4	76.8	115.2
119	60.7	49.7	74.5





#57
Chlorobenzene
Concen: 14.025 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

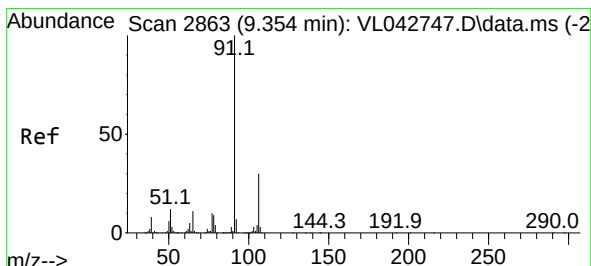
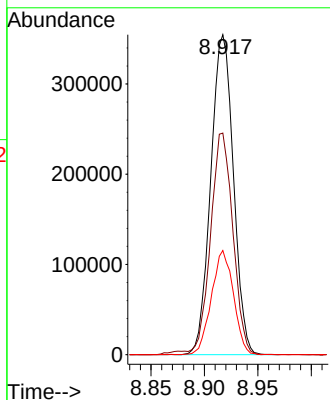
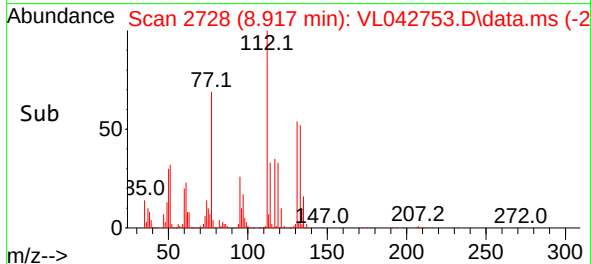
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



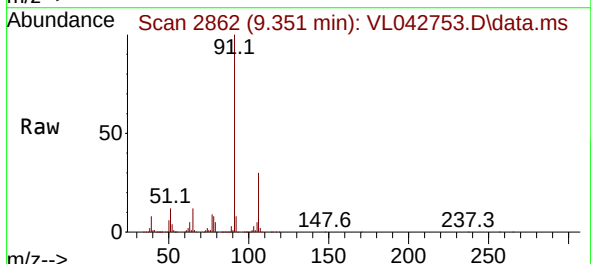
Tgt Ion:112 Resp: 522894
Ion Ratio Lower Upper
112 100
77 69.2 56.4 84.6
114 32.6 31.2 38.2

Manual Integrations
APPROVED

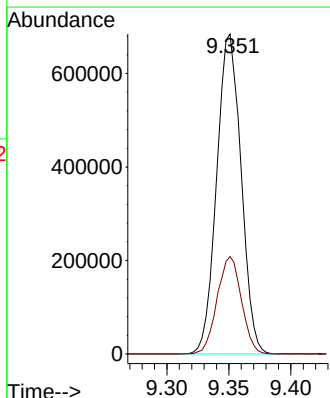
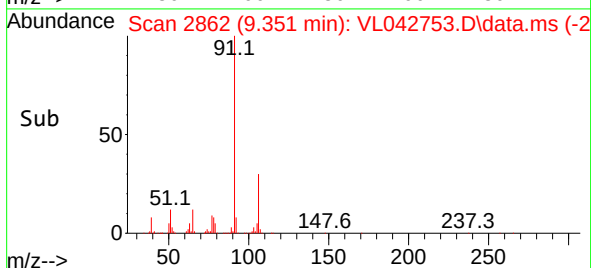
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

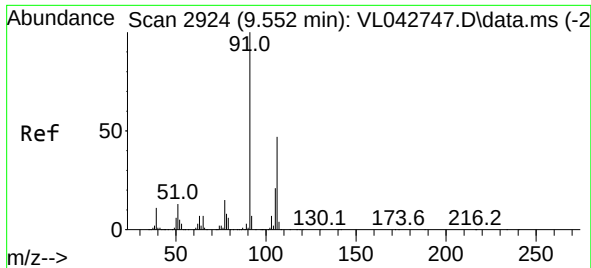


#58
Ethyl Benzene
Concen: 15.454 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion: 91 Resp: 940159
Ion Ratio Lower Upper
91 100
106 30.5 23.8 35.6





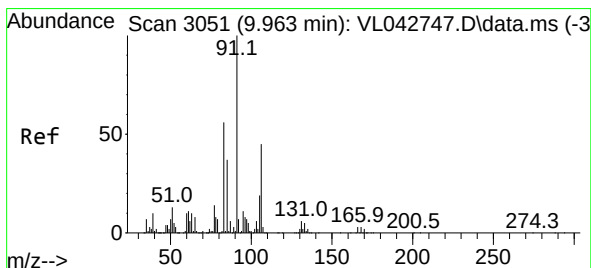
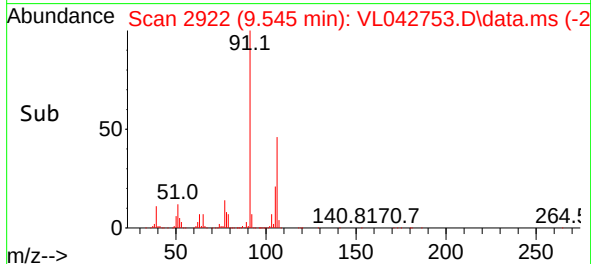
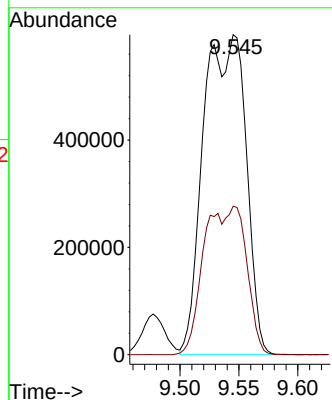
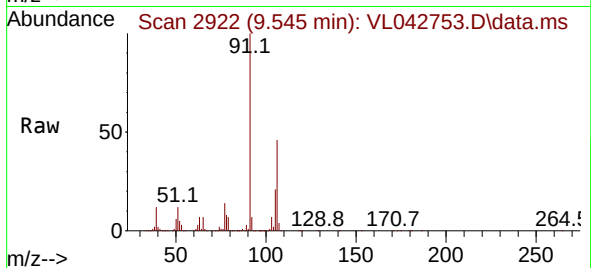
#59
m/p-Xylene
Concen: 30.800 ppbv m
RT: 9.545 min Scan# 2924
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 149793
Ion Ratio Lower Upper
91 100
106 46.6 37.4 56.2

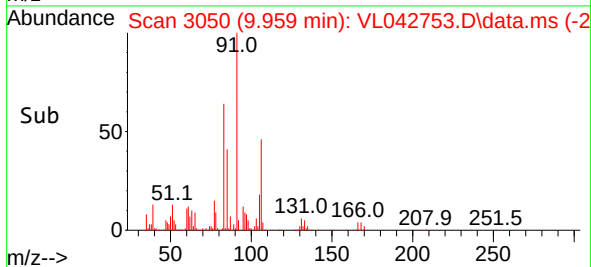
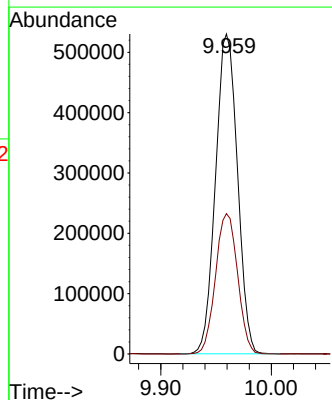
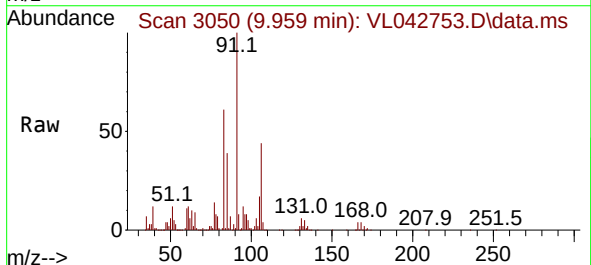
Manual Integrations
APPROVED

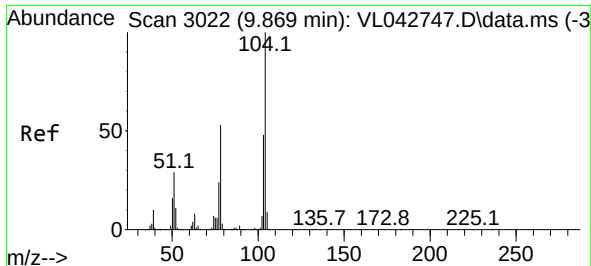
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 15.030 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 730161
Ion Ratio Lower Upper
91 100
106 44.1 22.0 66.0





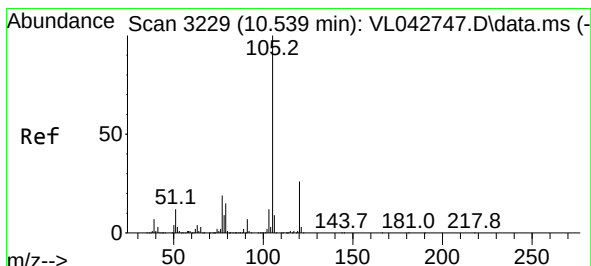
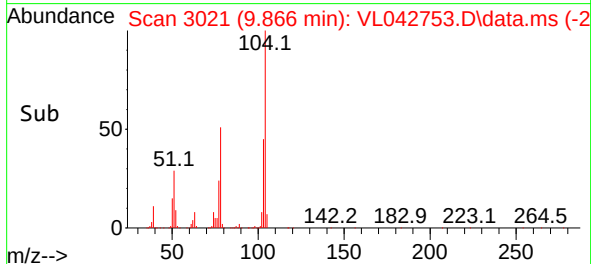
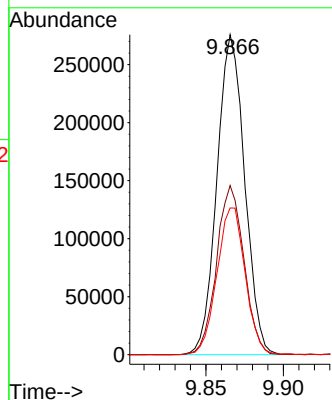
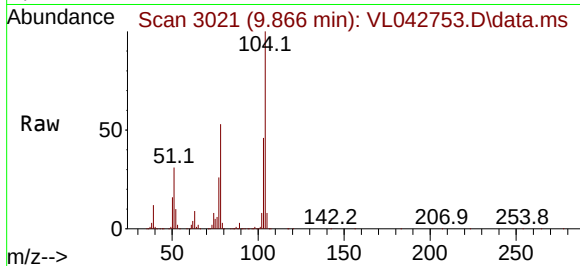
#61
Styrene
Concen: 16.805 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 343429
Ion Ratio Lower Upper
104 100
78 52.3 41.5 62.3
103 46.9 37.5 56.3

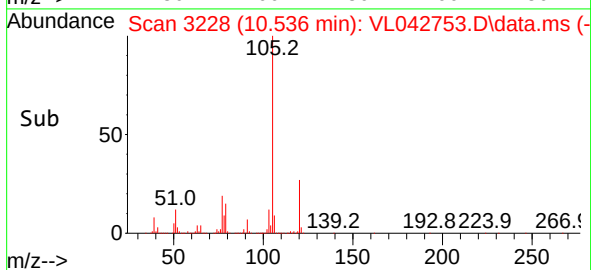
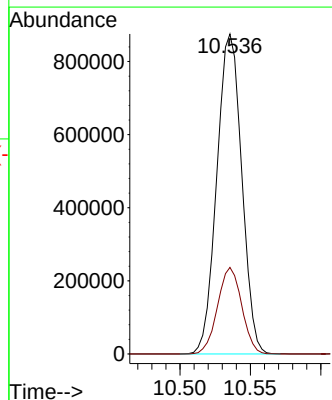
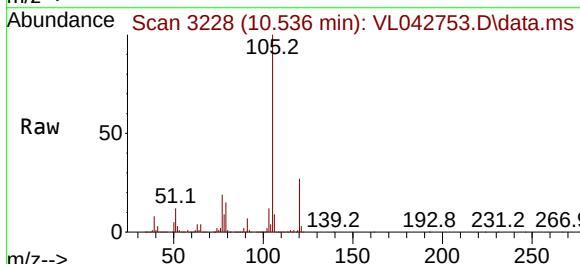
Manual Integrations
APPROVED

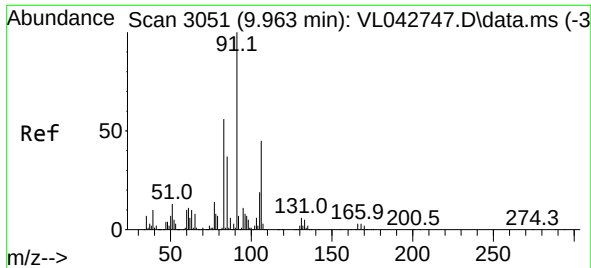
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 15.049 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

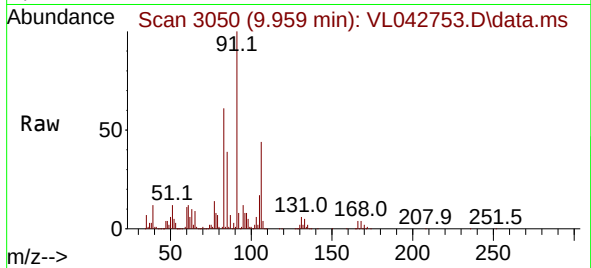
Tgt Ion:105 Resp: 1078393
Ion Ratio Lower Upper
105 100
120 26.2 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 13.261 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

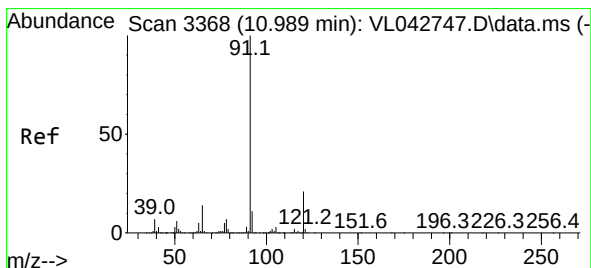
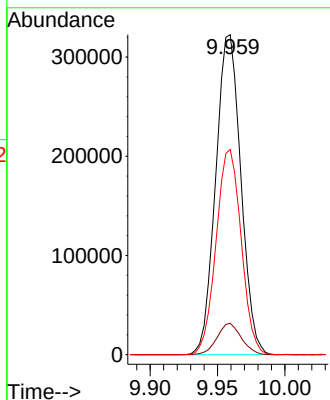
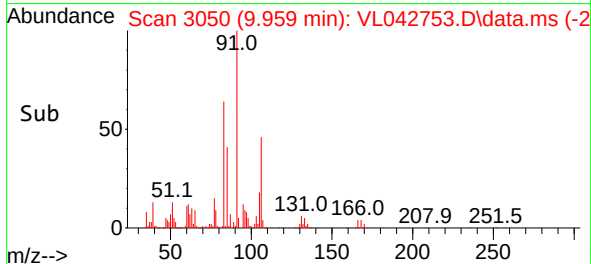
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



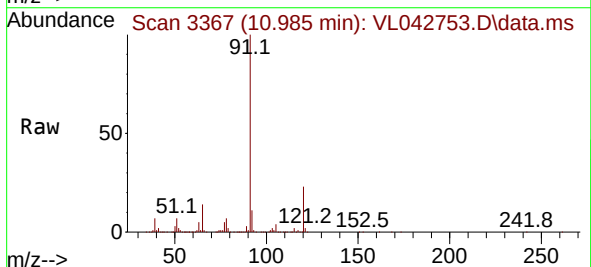
Tgt Ion: 83 Resp: 419734
Ion Ratio Lower Upper
83 100
131 9.5 5.0 15.0
85 63.8 32.6 97.7

Manual Integrations
APPROVED

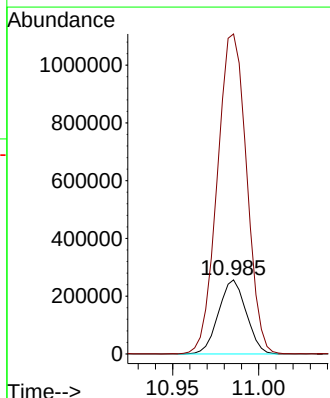
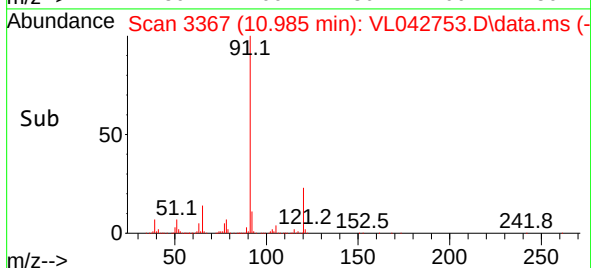
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

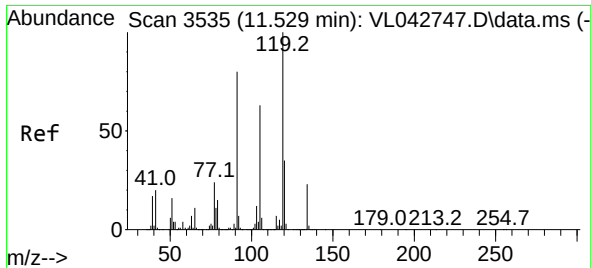


#64
n-propylbenzene
Concen: 15.348 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:120 Resp: 286724
Ion Ratio Lower Upper
120 100
91 458.1 372.7 559.1





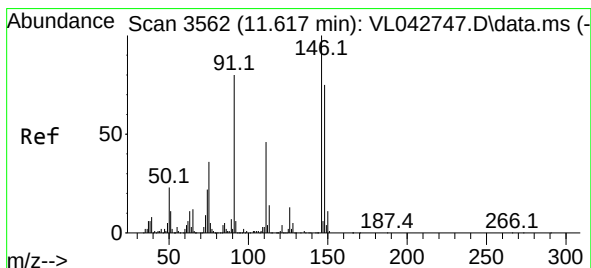
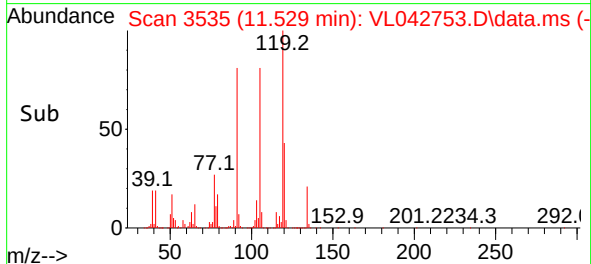
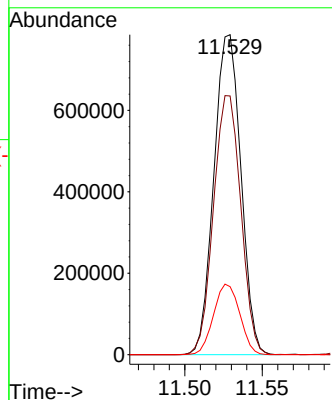
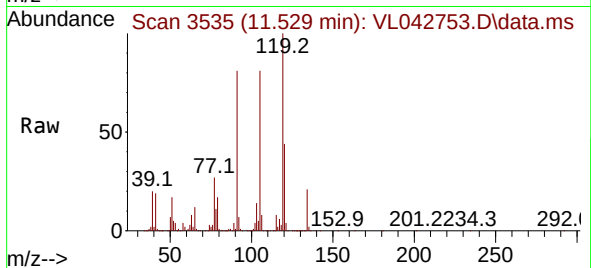
#65
tert-Butylbenzene
Concen: 14.995 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument : MSVOA_L
ClientSampleId : VSTDIC015

Tgt Ion: 119 Resp: 954459
Ion Ratio Lower Upper
119 100
91 81.9 64.0 96.0
134 21.4 17.3 25.9

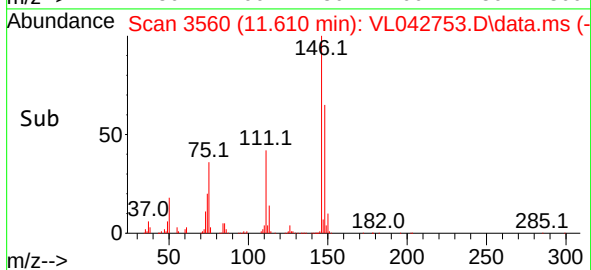
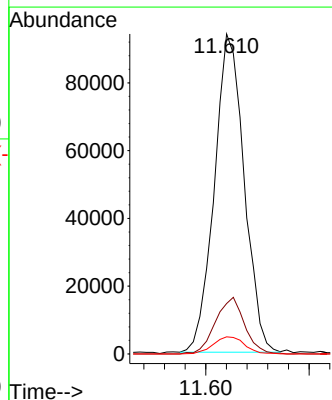
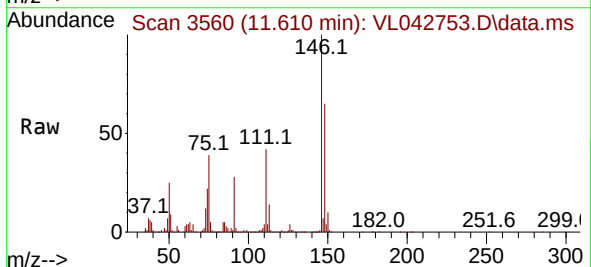
Manual Integrations
APPROVED

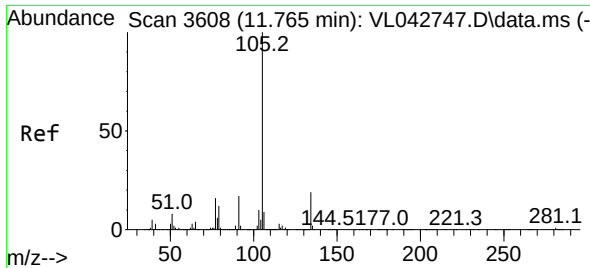
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 18.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

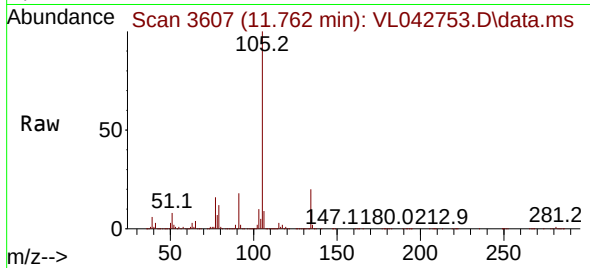
Tgt Ion: 91 Resp: 94218
Ion Ratio Lower Upper
91 100
126 17.3 14.4 21.6
128 5.7 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 14.662 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

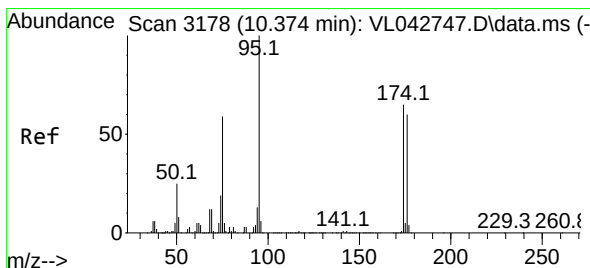
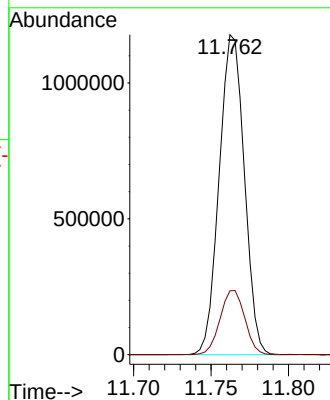
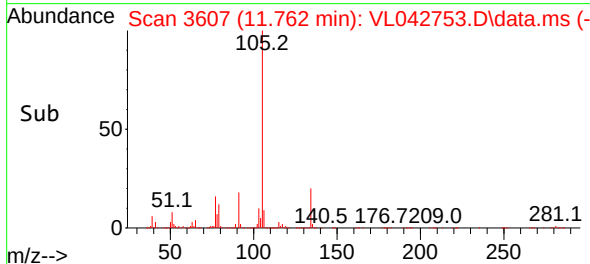
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



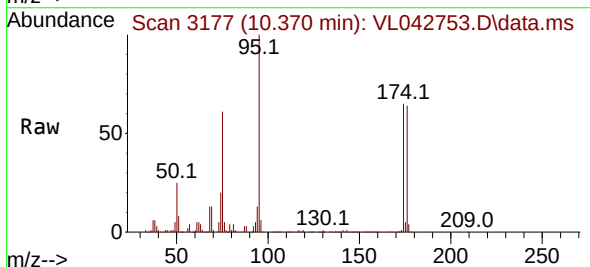
Tgt Ion:105 Resp: 132739
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3

Manual Integrations
 APPROVED

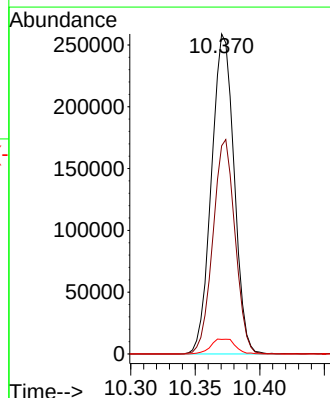
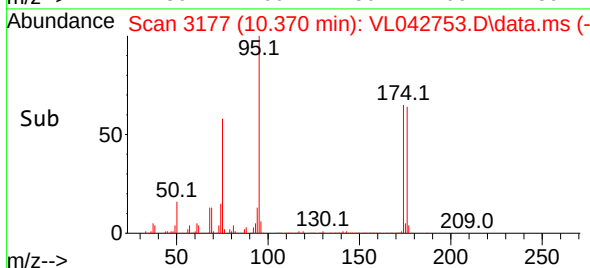
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

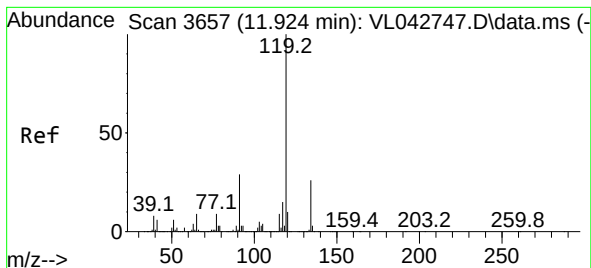


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.335 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



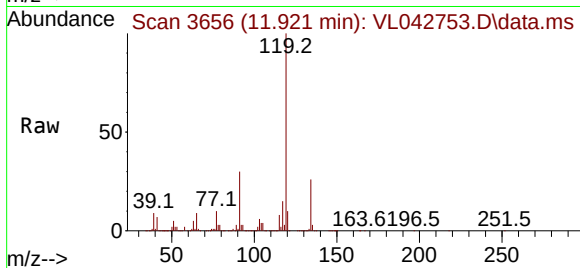
Tgt Ion: 95 Resp: 315293
 Ion Ratio Lower Upper
 95 100
 174 65.7 53.8 80.6
 175 5.0 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 15.571 ppbv
 RT: 11.921 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

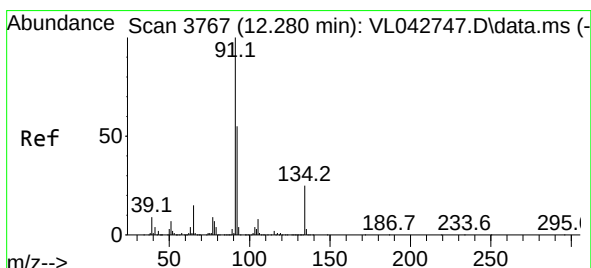
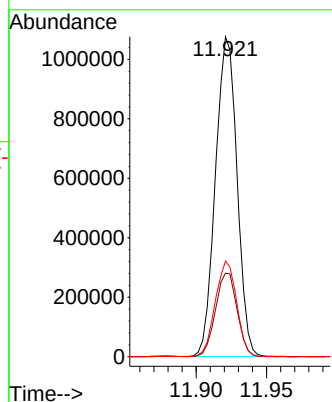
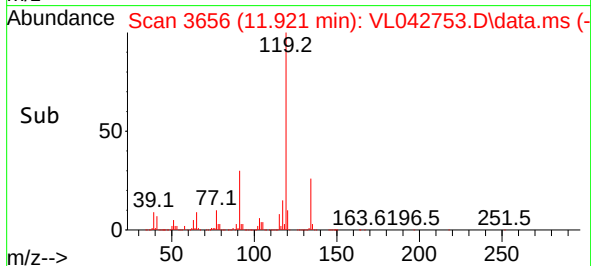
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



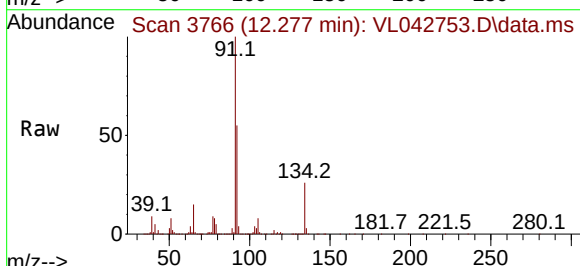
Tgt Ion: 119 Resp: 1149418
 Ion Ratio Lower Upper
 119 100
 134 26.3 20.6 31.0
 91 29.6 23.2 34.8

Manual Integrations
 APPROVED

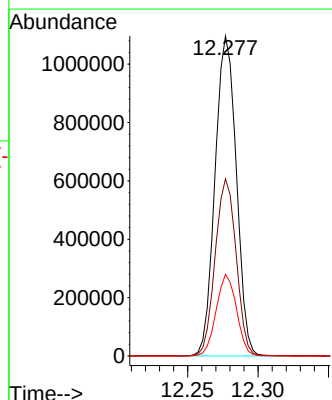
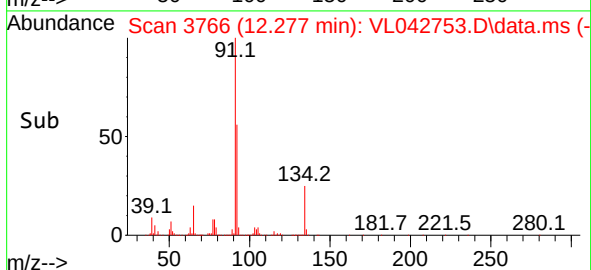
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

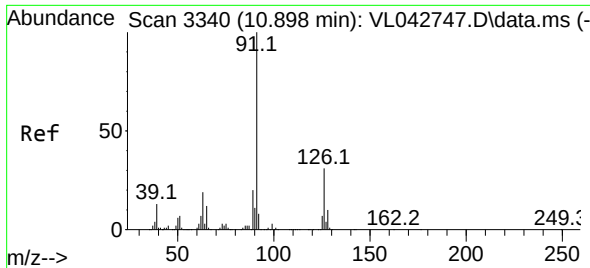


#70
 n-Butylbenzene
 Concen: 16.159 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



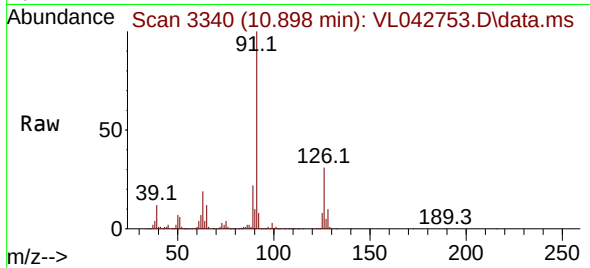
Tgt Ion: 91 Resp: 1152207
 Ion Ratio Lower Upper
 91 100
 92 54.6 43.4 65.2
 134 24.5 19.6 29.4





#71
2-Chlorotoluene
Concen: 15.257 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

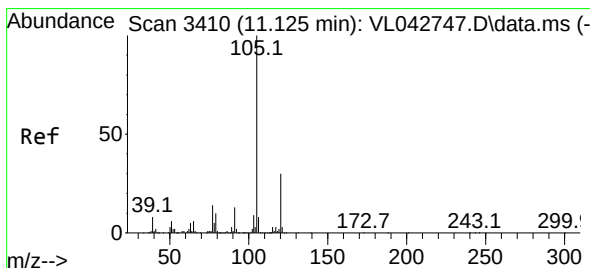
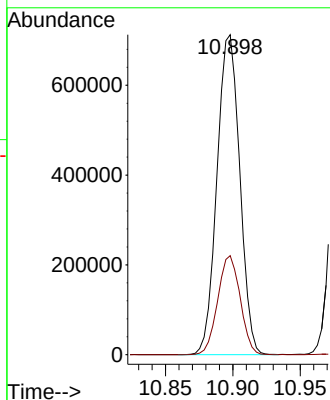
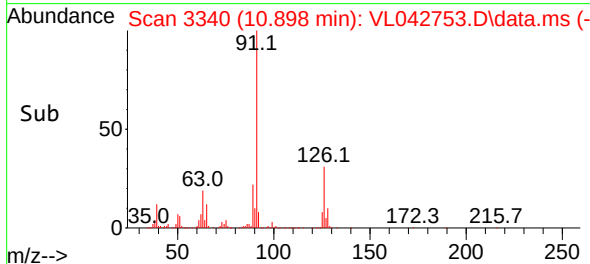
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



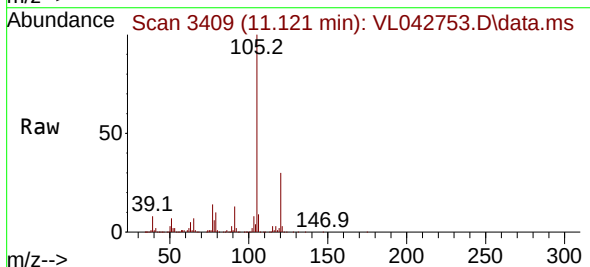
Tgt Ion: 91 Resp: 83833
Ion Ratio Lower Upper
91 100
126 30.5 12.0 48.2

Manual Integrations
APPROVED

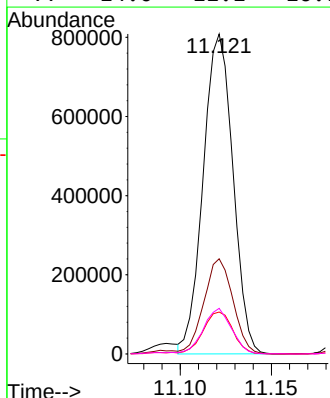
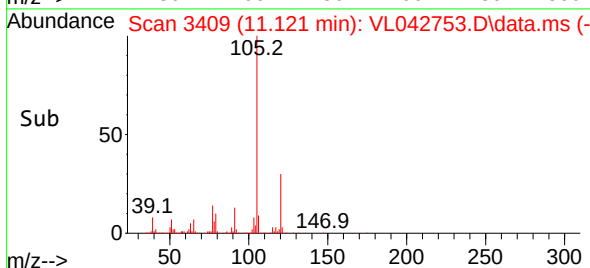
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

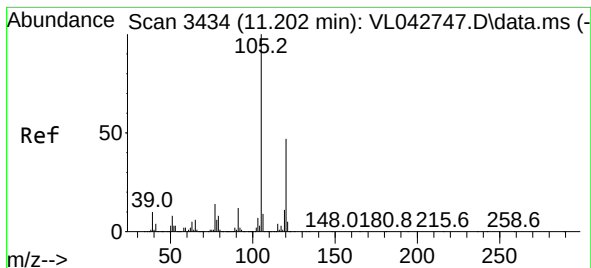


#72
4-Ethyltoluene
Concen: 15.830 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:105 Resp: 918453
Ion Ratio Lower Upper
105 100
120 30.1 24.4 36.6
91 13.5 10.6 15.8
77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 15.977 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:105 Resp: 763212

Ion Ratio Lower Upper

105 100

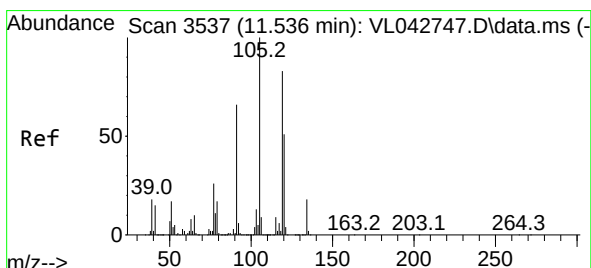
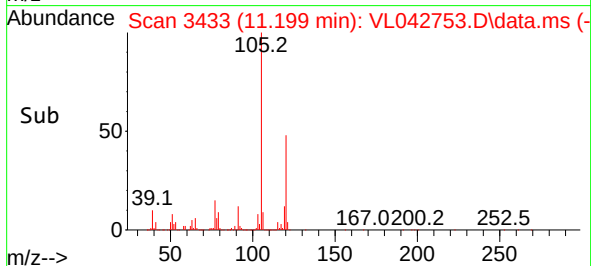
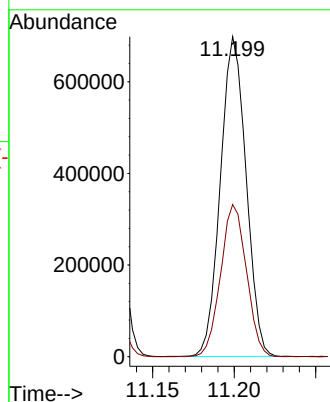
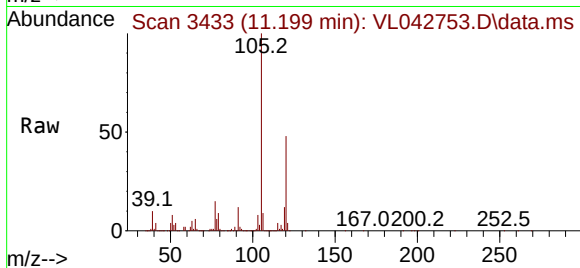
120 47.5 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 15.873 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 827222

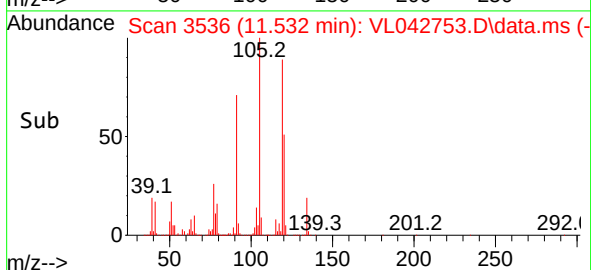
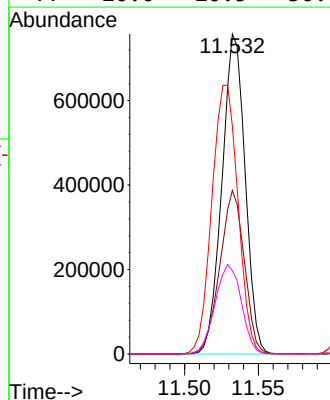
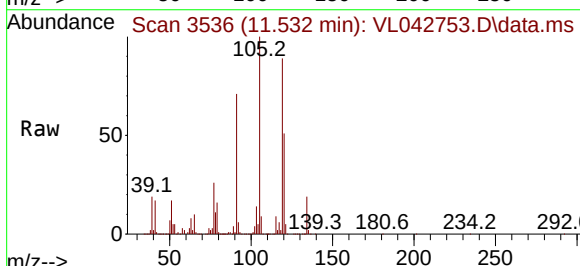
Ion Ratio Lower Upper

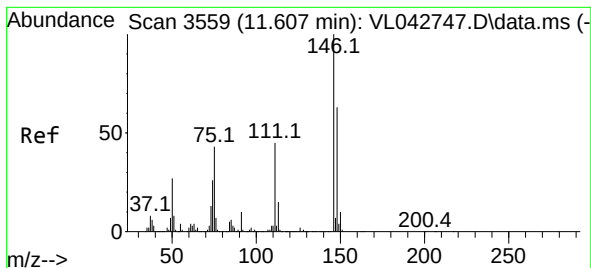
105 100

120 51.1 40.8 61.2

91 71.2 53.0 79.4

77 26.0 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 14.761 ppbv

RT: 11.604 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

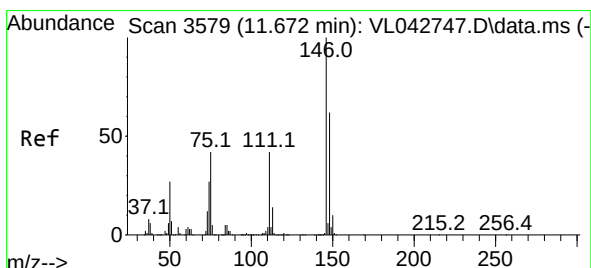
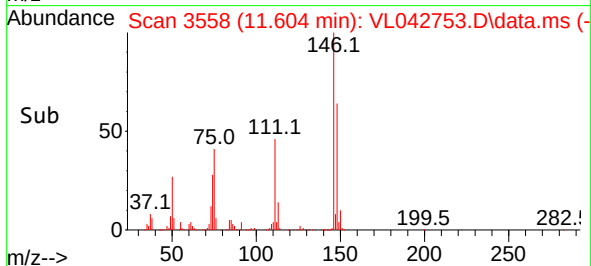
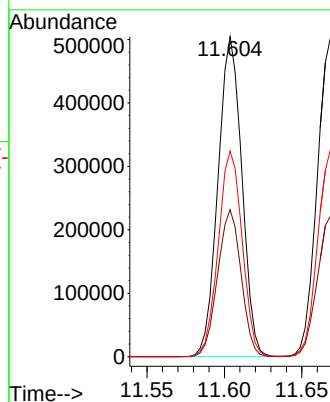
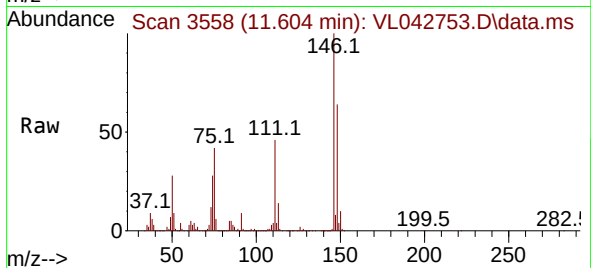
VSTDIC015

Tgt Ion:146 Resp: 539284
 Ion Ratio Lower Upper
 146 100
 111 45.2 22.7 68.0
 148 64.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 15.188 ppbv

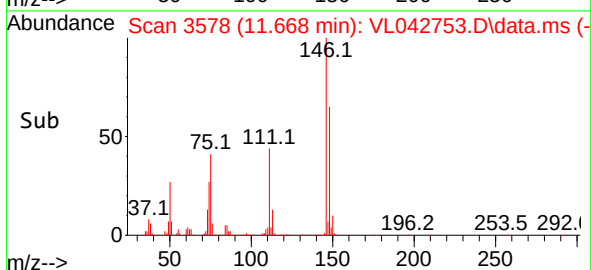
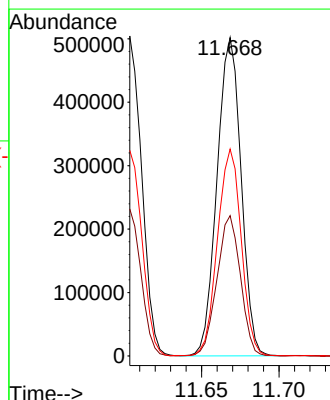
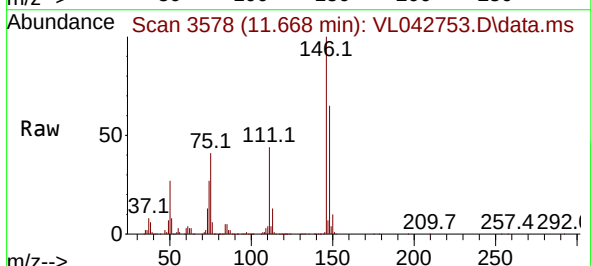
RT: 11.668 min Scan# 3578

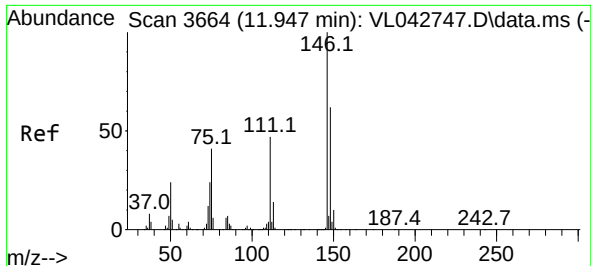
Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

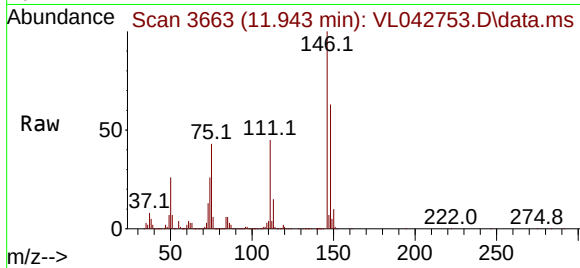
Tgt Ion:146 Resp: 542998
 Ion Ratio Lower Upper
 146 100
 111 43.1 21.4 64.2
 148 64.3 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 14.390 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

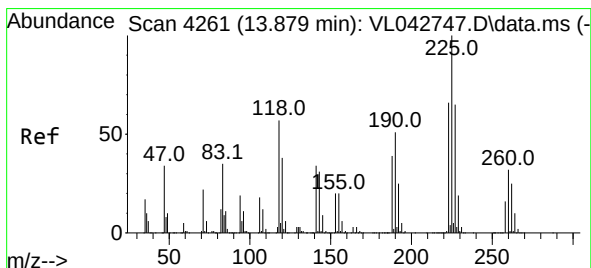
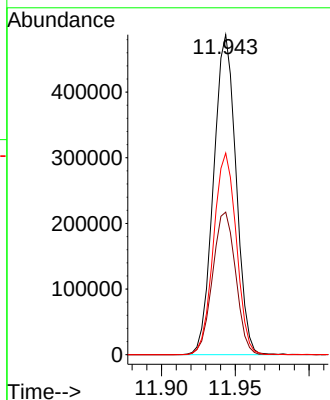
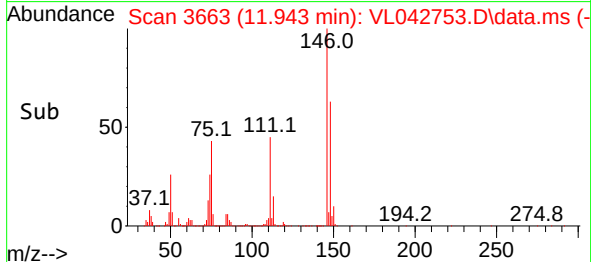
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



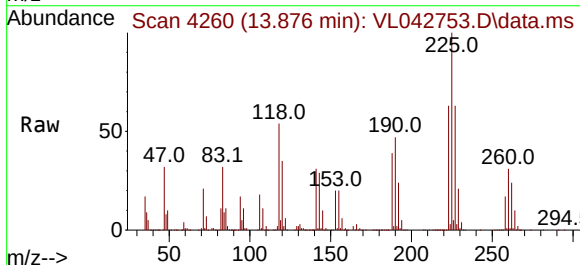
Tgt Ion:146 Resp: 516714
Ion Ratio Lower Upper
146 100
111 45.9 23.7 71.1
148 64.0 32.6 97.7

Manual Integrations
APPROVED

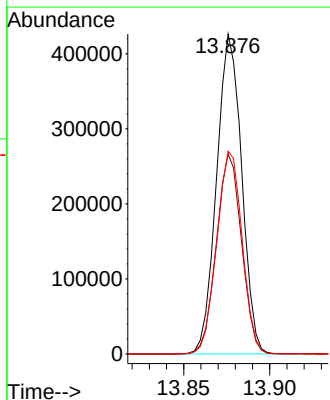
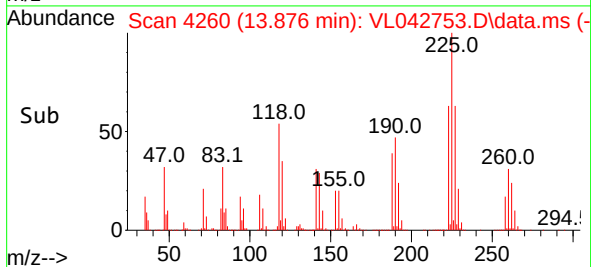
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

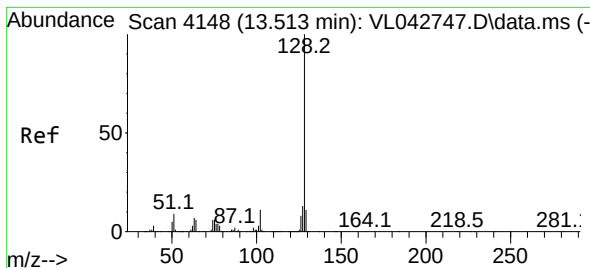


#78
Hexachloro-1,3-Butadiene
Concen: 13.296 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:225 Resp: 432138
Ion Ratio Lower Upper
225 100
223 62.9 50.7 76.1
227 64.3 50.5 75.7





#79

Naphthalene

Concen: 15.265 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

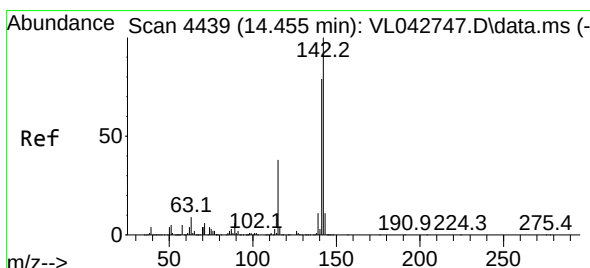
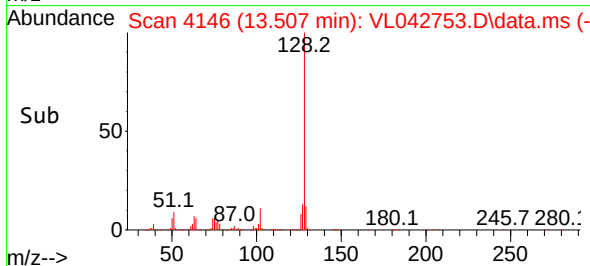
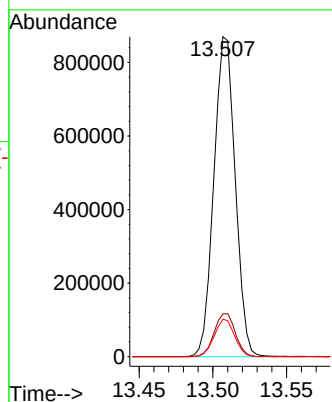
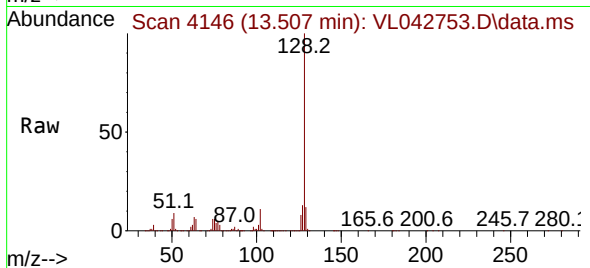
Tgt Ion:128 Resp: 876734

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.7	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#80

Naphthalene,2-methyl-

Concen: 15.438 ppbv

RT: 14.452 min Scan# 4438

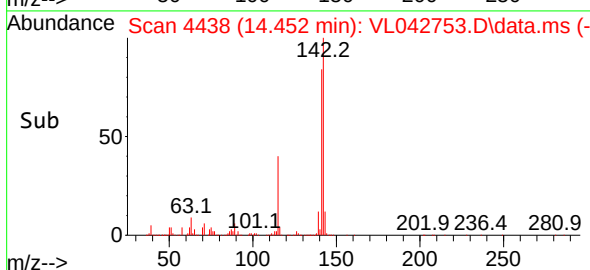
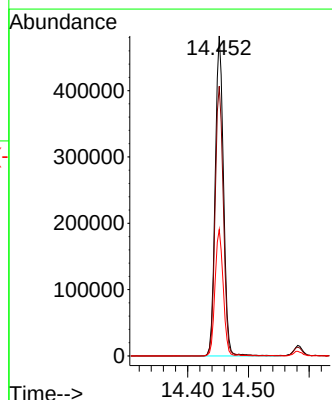
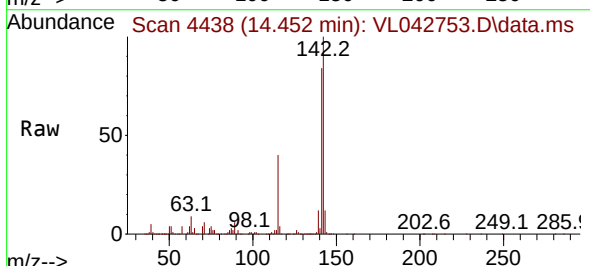
Delta R.T. -0.003 min

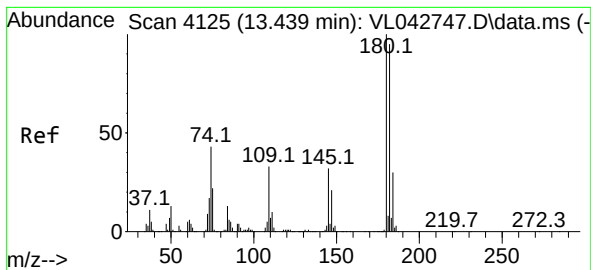
Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:142 Resp: 456529

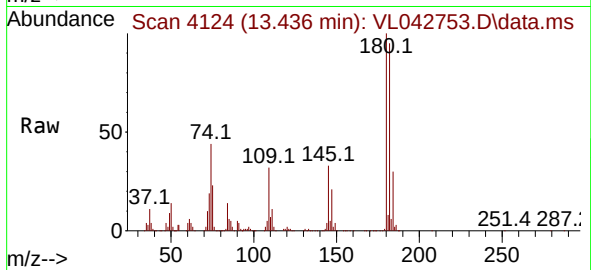
Ion	Ratio	Lower	Upper
142	100		
141	84.4	65.8	98.8
115	39.2	31.2	46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 15.200 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

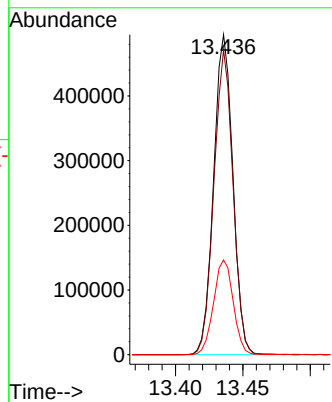
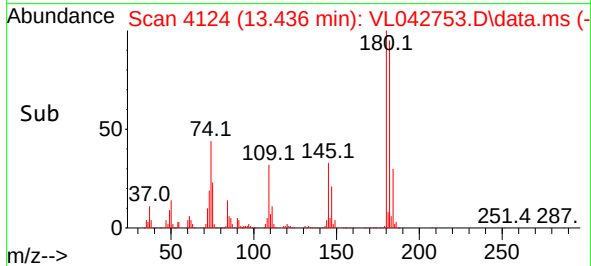
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 490579
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.2 114.2
 184 30.3 24.8 37.2

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 : 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

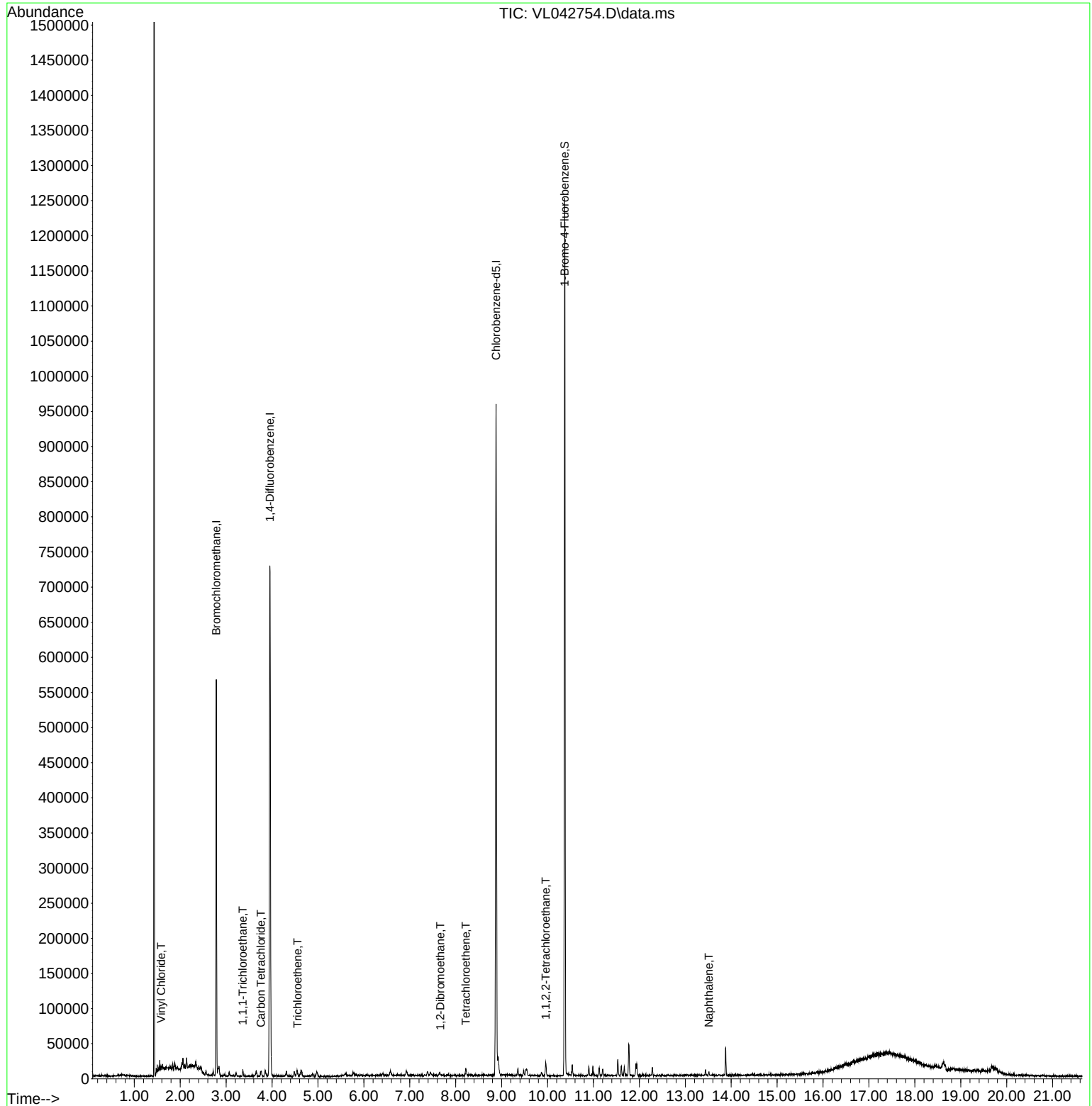
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

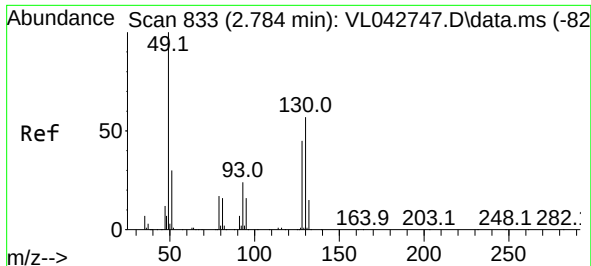
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

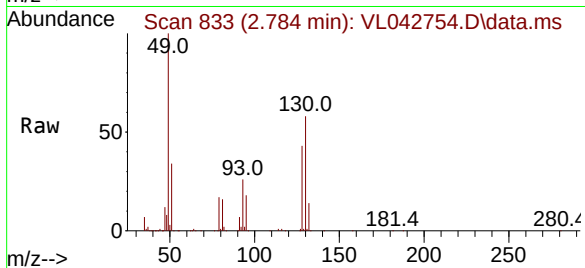
Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

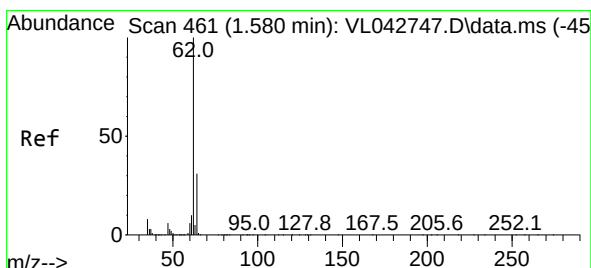
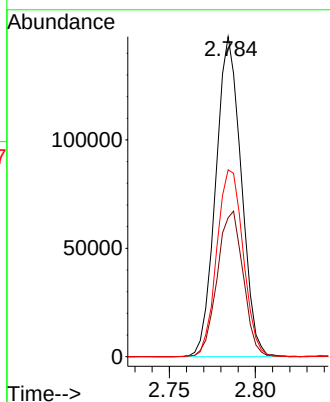
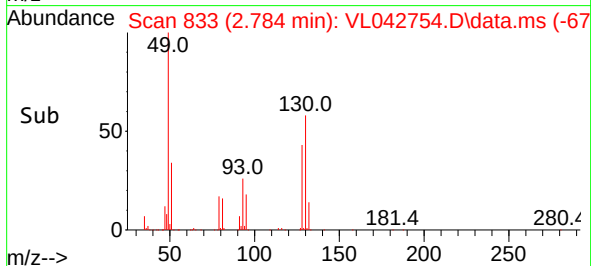
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 152358
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 60.6 30.3 90.8

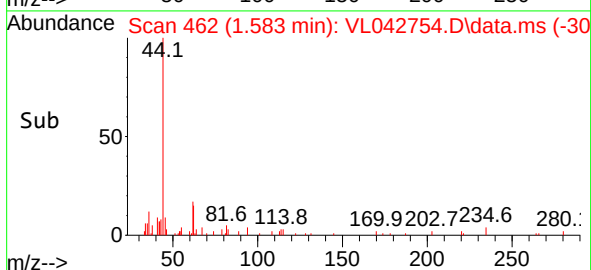
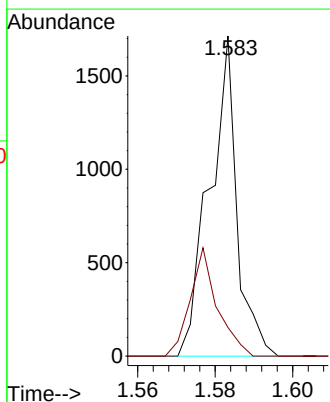
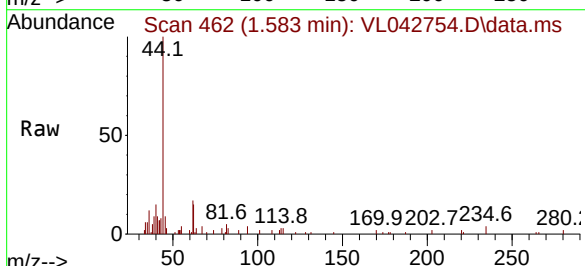
Manual Integrations
APPROVED

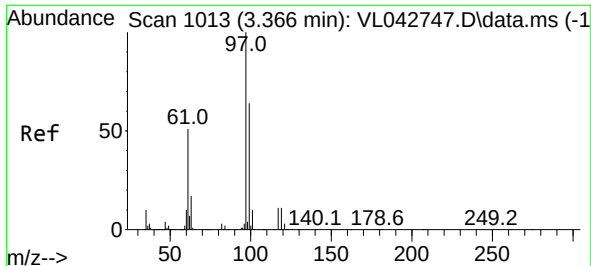
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#5
Vinyl Chloride
Concen: 0.104 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

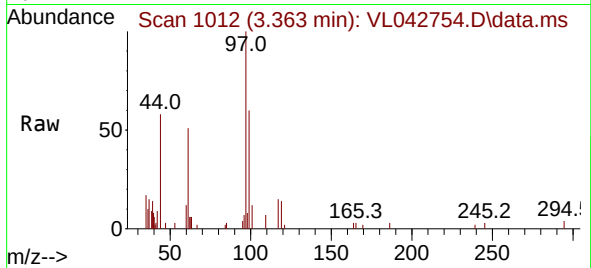
Tgt Ion: 62 Resp: 837
Ion Ratio Lower Upper
62 100
64 8.9 24.5 36.7#





#32
 1,1,1-Trichloroethane
 Concen: 0.108 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

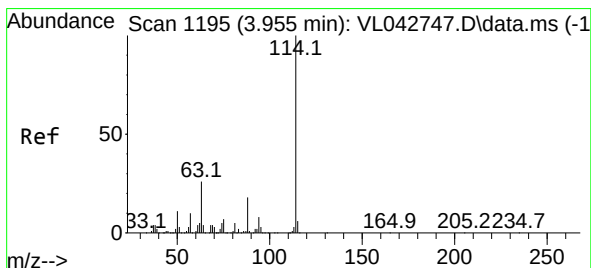
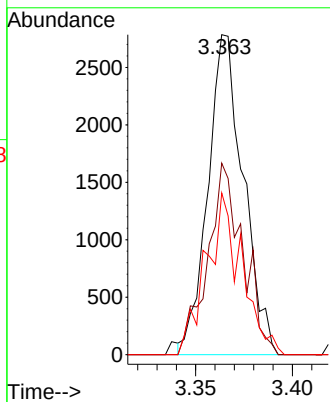
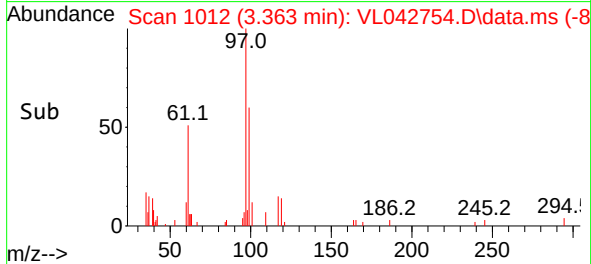
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1



Tgt Ion: 97 Resp: 3550
 Ion Ratio Lower Upper
 97 100
 99 59.4 51.0 76.6
 61 50.4 40.9 61.3

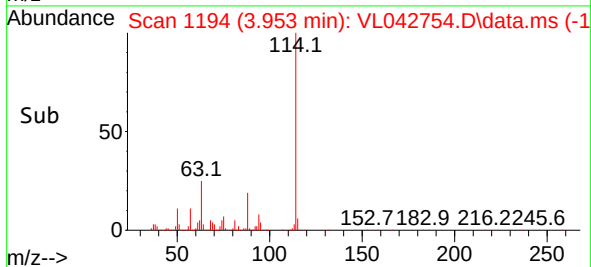
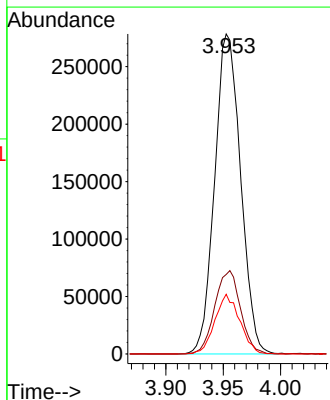
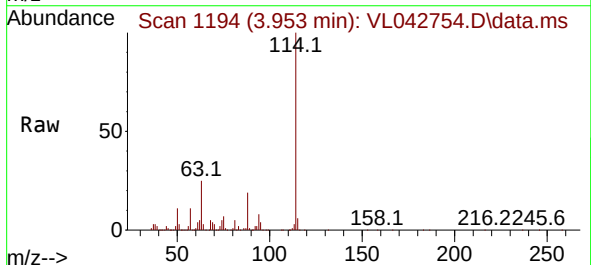
Manual Integrations
 APPROVED

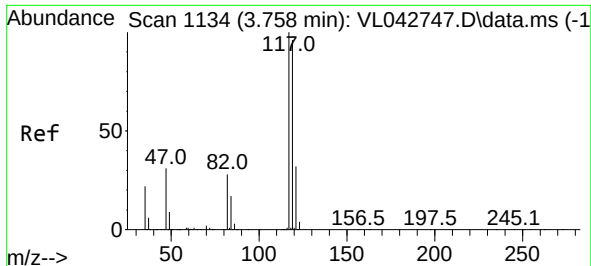
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.953 min Scan# 1194
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

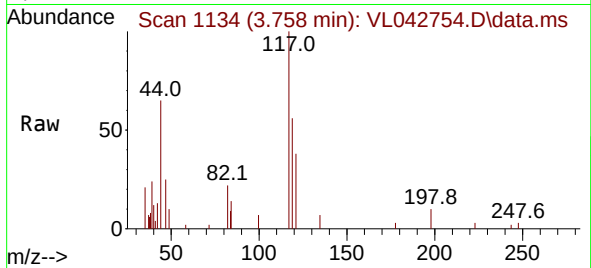
Tgt Ion:114 Resp: 438604
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.8 14.0 21.0





#35
Carbon Tetrachloride
Concen: 0.093 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

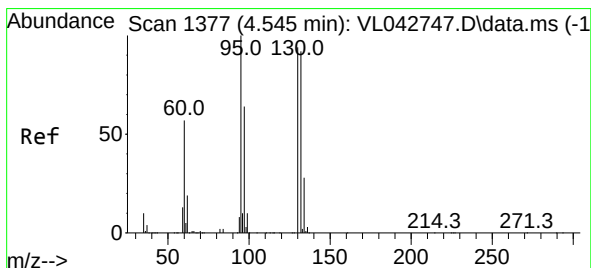
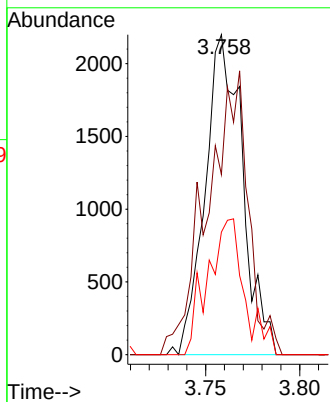
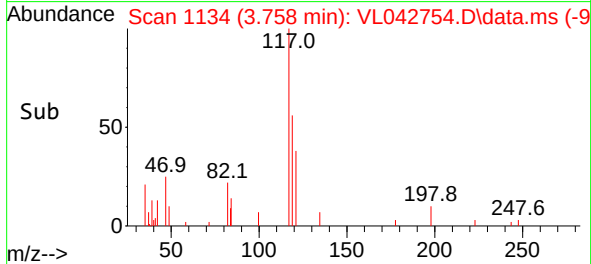
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:117 Resp: 303
Ion Ratio Lower Upper
117 100
119 56.3 77.1 115.7
121 38.3 25.5 38.3

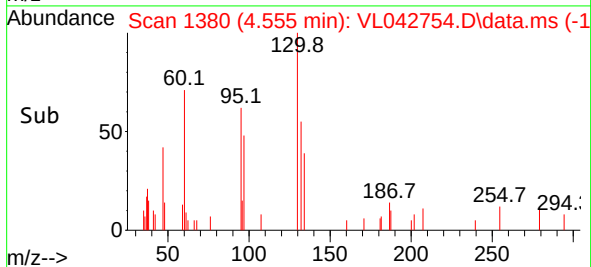
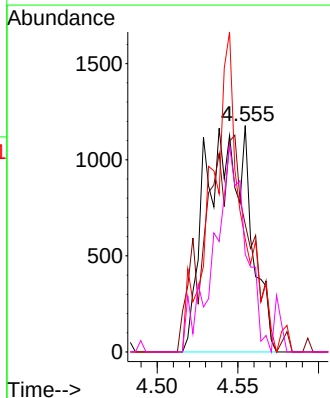
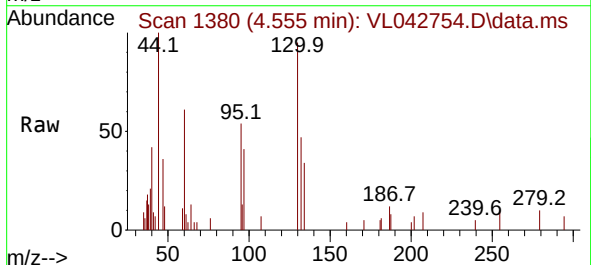
Manual Integrations
APPROVED

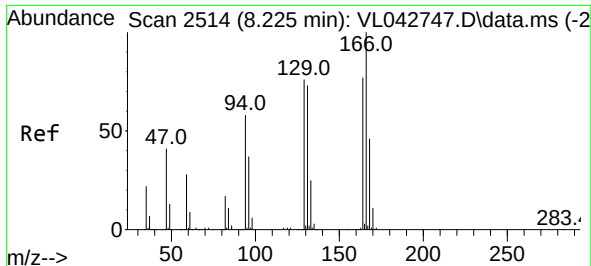
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 0.110 ppbv m
RT: 4.555 min Scan# 1380
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

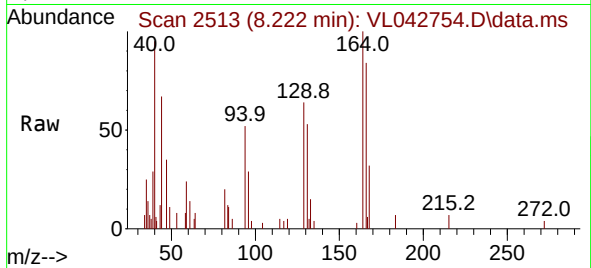
Tgt Ion:130 Resp: 2207
Ion Ratio Lower Upper
130 100
95 56.4 85.4 128.2#
132 49.9 78.2 117.2#
97 43.1 54.8 82.2#





#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 8.222 min Scan# 2185
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

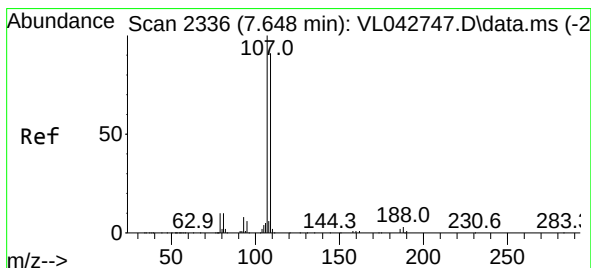
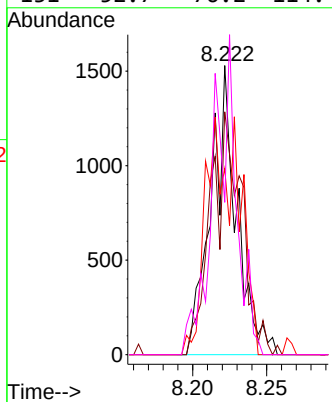
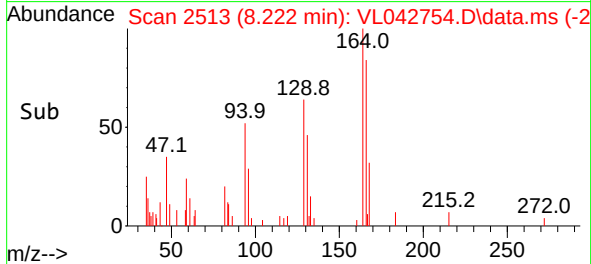
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:164 Resp: 1852
Ion Ratio Lower Upper
164 100
166 84.0 104.0 156.0
129 64.3 79.2 118.8
131 52.7 76.2 114.4

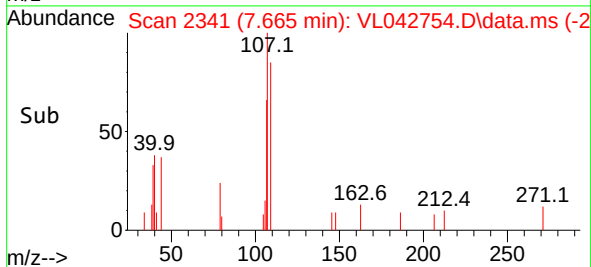
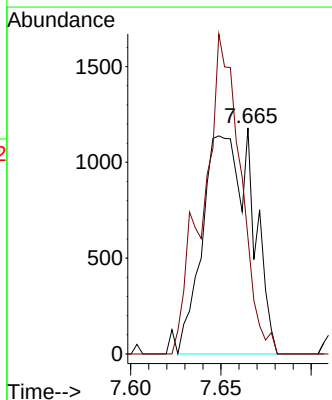
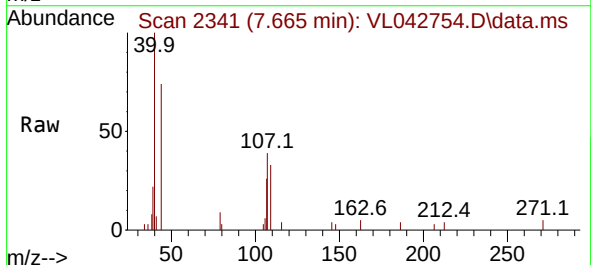
Manual Integrations
APPROVED

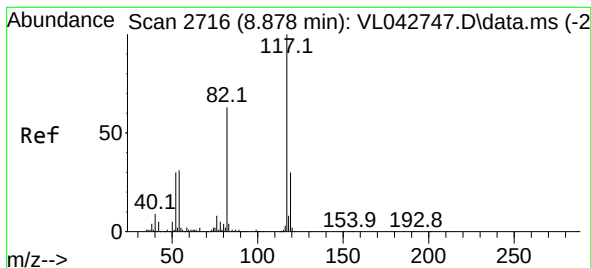
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 0.094 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:107 Resp: 2184
Ion Ratio Lower Upper
107 100
109 85.2 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

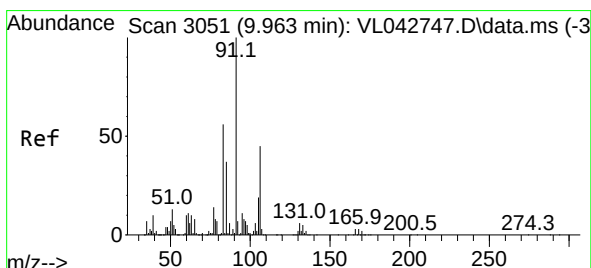
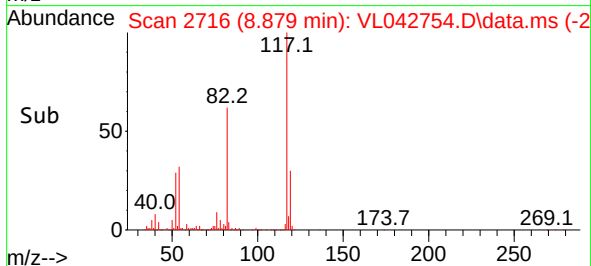
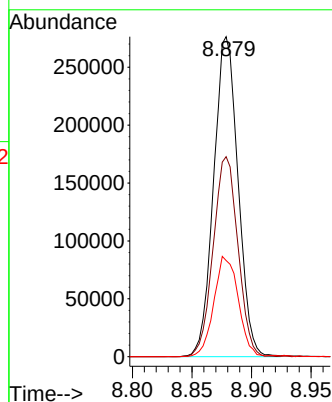
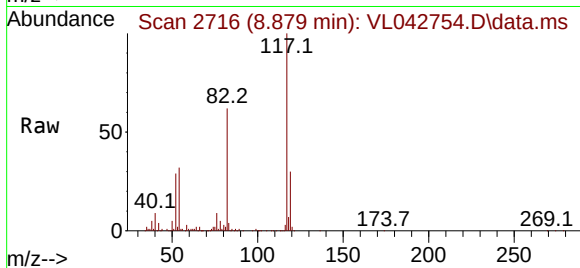
VSTDIC0.1

Tgt Ion:	117	Resp:	39304
Ion Ratio	Lower	Upper	
117	100		
82	63.6	53.3	79.9
119	31.7	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.095 ppbv m

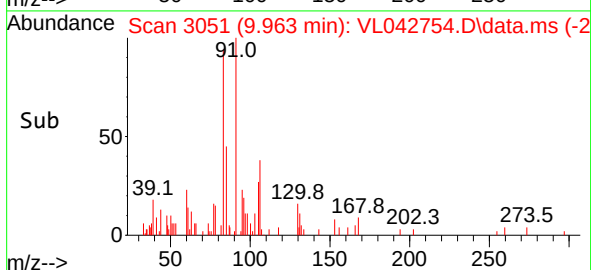
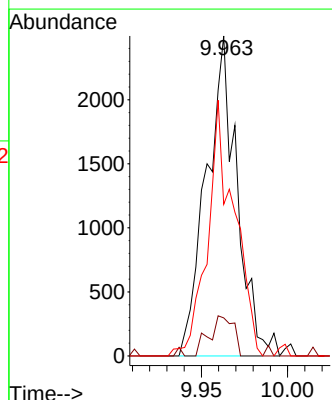
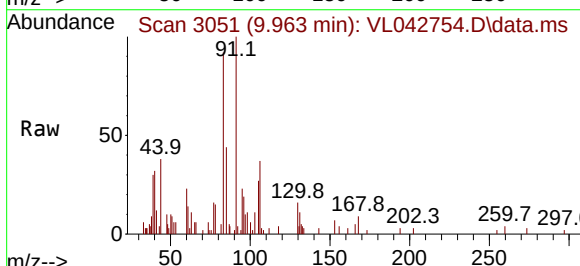
RT: 9.963 min Scan# 3051

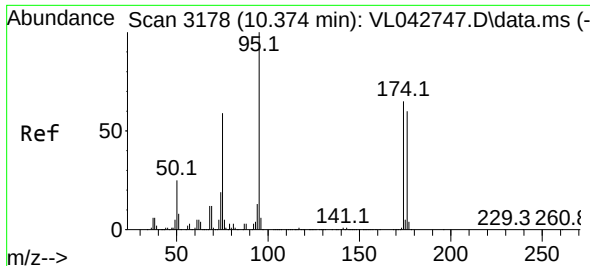
Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

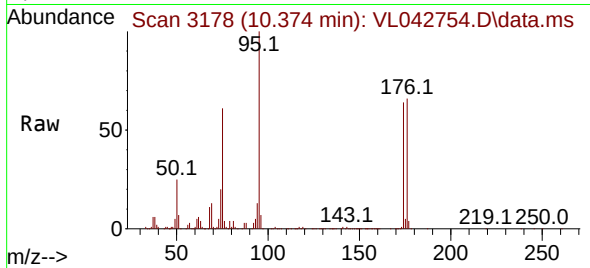
Tgt Ion:	83	Resp:	3084
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.0	15.0
85	70.7	32.6	97.7





#68
1-Bromo-4-Fluorobenzene
Concen: 9.583 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

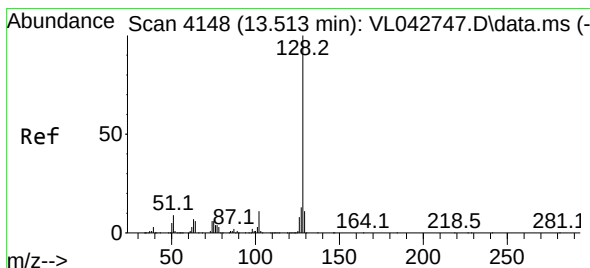
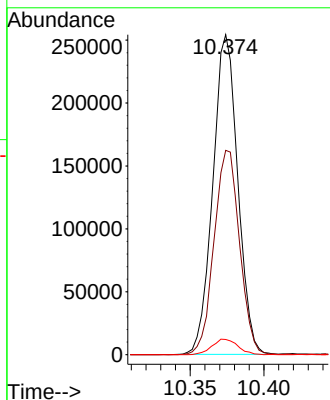
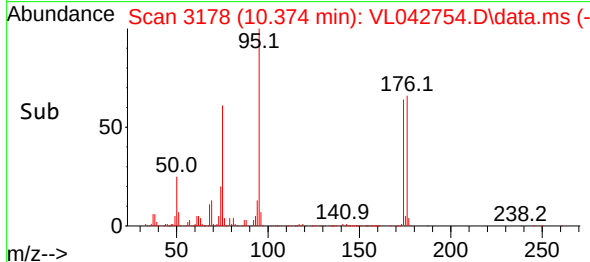
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



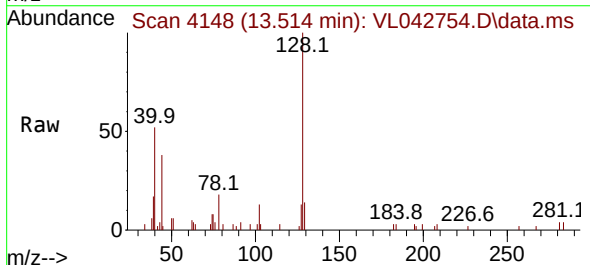
Tgt Ion: 95 Resp: 29828
Ion Ratio Lower Upper
95 100
174 65.8 53.8 80.6
175 5.0 4.0 6.0

Manual Integrations
APPROVED

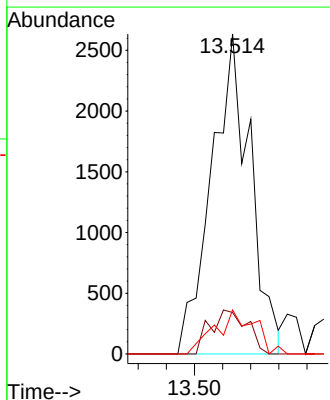
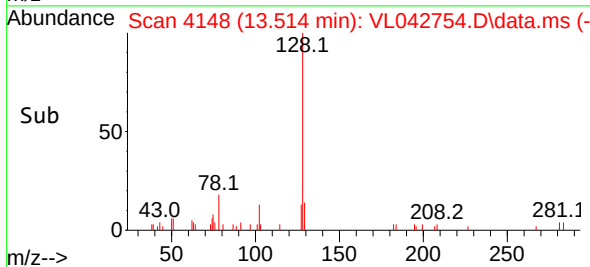
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00



Tgt Ion:128 Resp: 2509
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.7 8.6 13.0#



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 :
 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_L Fri 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

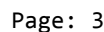
Response via : Initial Calibration

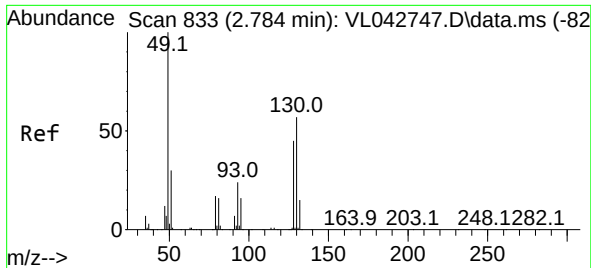
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv	97
47) 1,1,2-Trichloroethane	6.564	97	154882m	9.848	ppbv	
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv	98
49) Bromoform	9.477	173	233573	10.729	ppbv	99
50) 4-Methyl-2-Pentanone	5.736	43	396506	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

Manual Integrations APPROVED

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





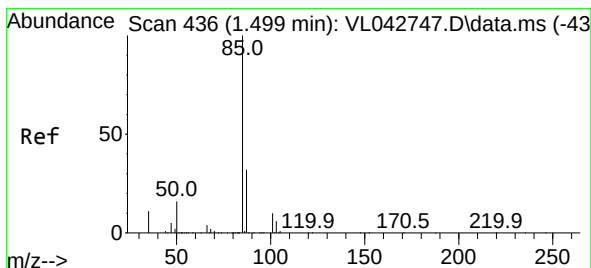
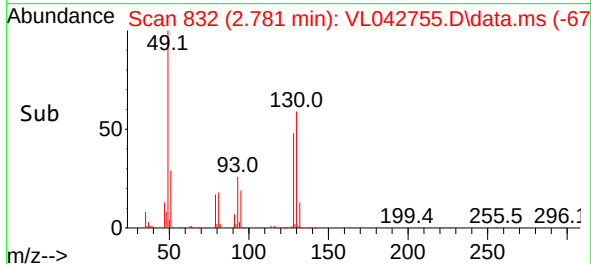
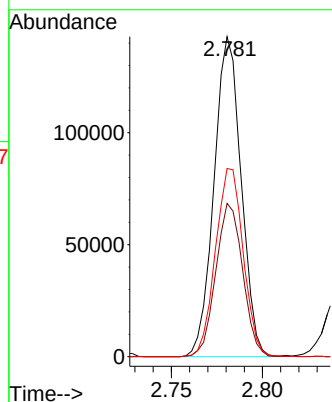
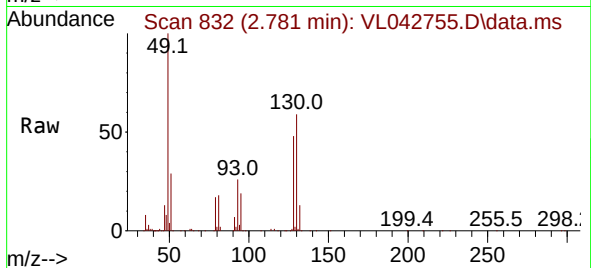
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 49 Resp: 148064
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 60.2 30.3 90.8

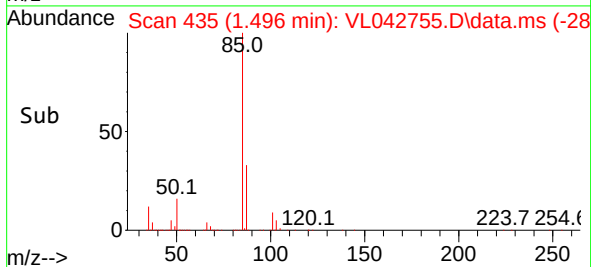
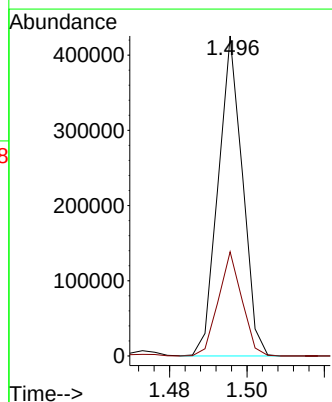
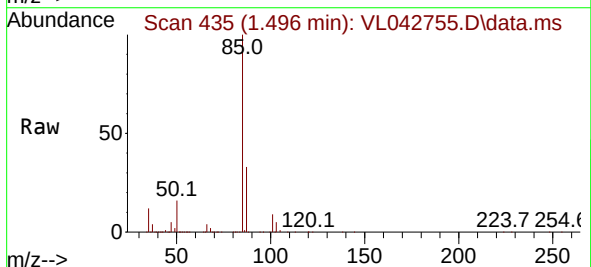
Manual Integrations
APPROVED

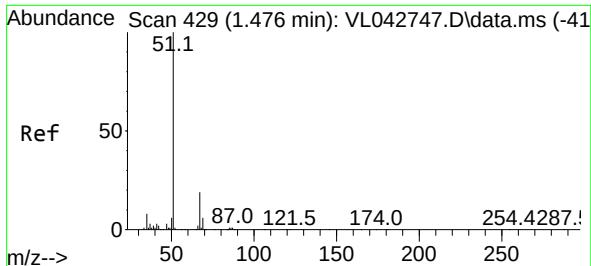
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 185425
Ion Ratio Lower Upper
85 100
87 32.6 25.4 38.2





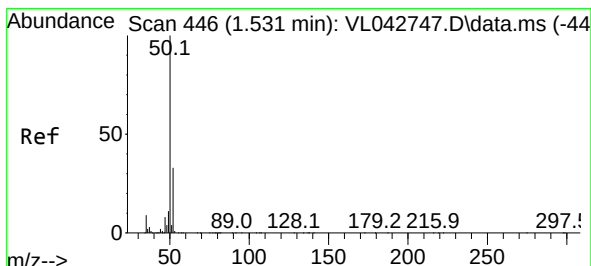
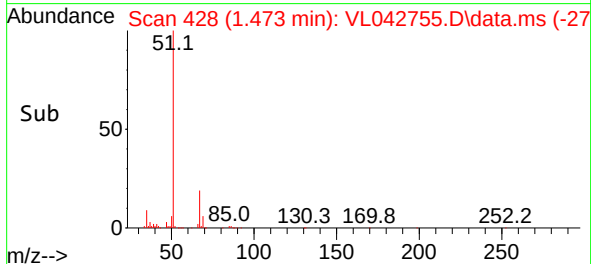
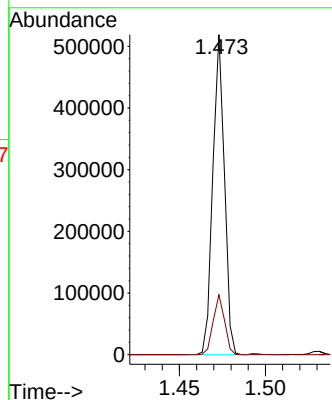
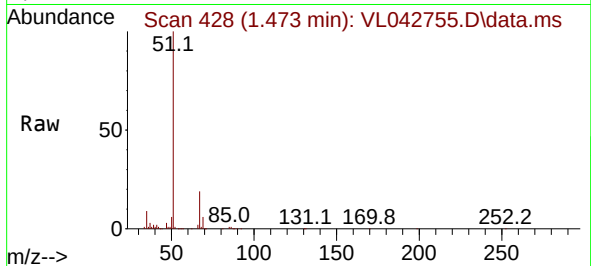
#3
Chlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion: 51 Resp: 242908
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6

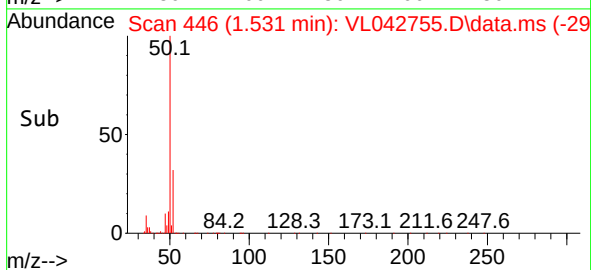
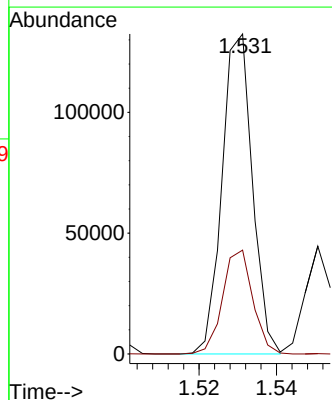
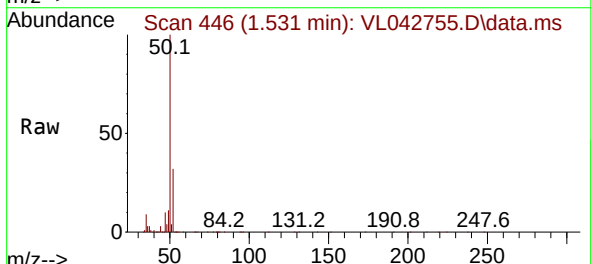
Manual Integrations
APPROVED

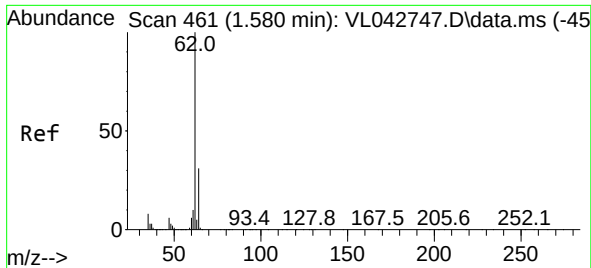
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 9.119 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 50 Resp: 72221
Ion Ratio Lower Upper
50 100
52 32.4 26.6 40.0





#5
 Vinyl Chloride
 Concen: 8.265 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

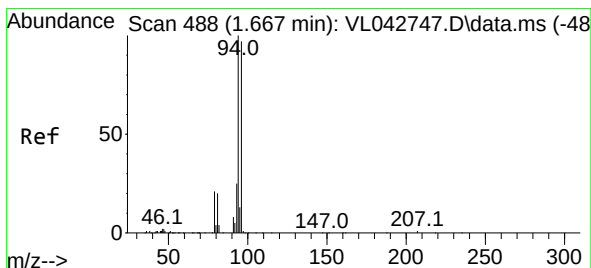
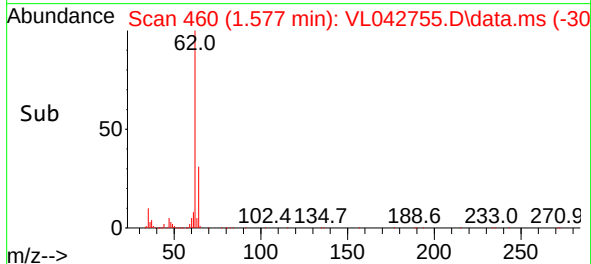
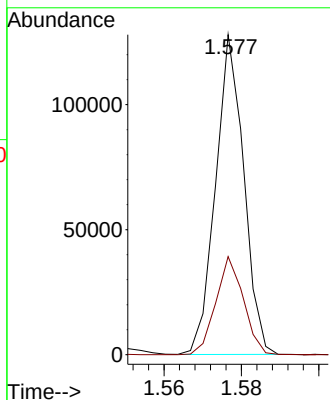
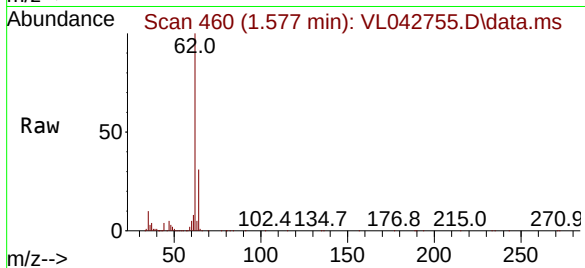
ClientSampleId :

ICVVL072325

Tgt Ion: 62 Resp: 6467
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.5 36.7

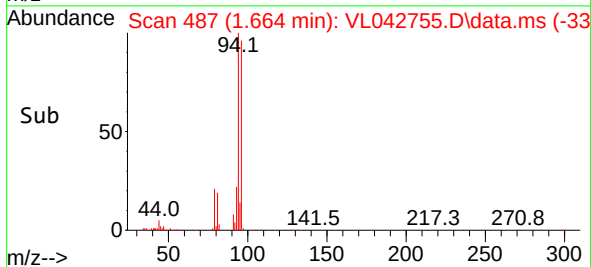
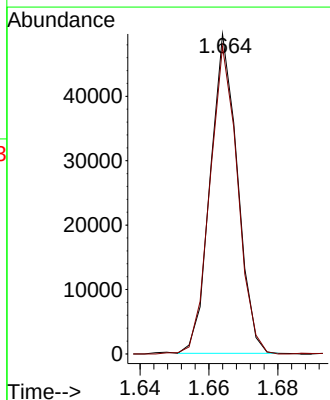
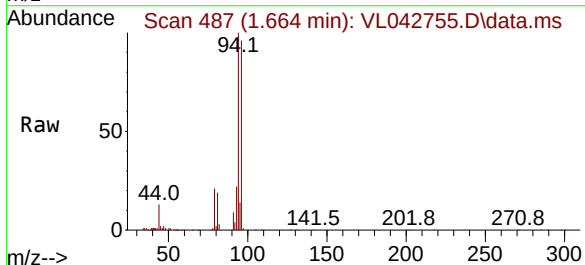
Manual Integrations
 APPROVED

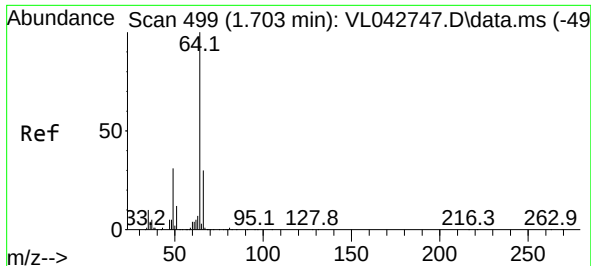
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 8.957 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 94 Resp: 27096
 Ion Ratio Lower Upper
 94 100
 96 96.3 77.6 116.4





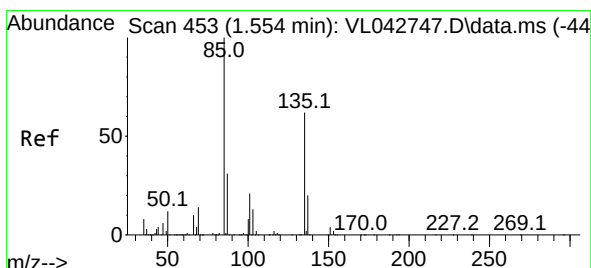
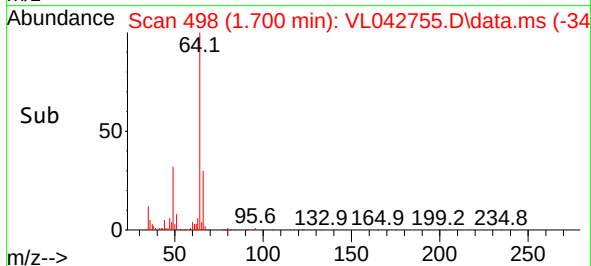
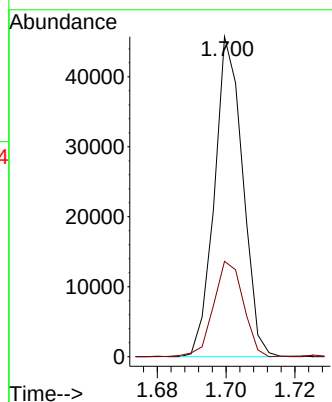
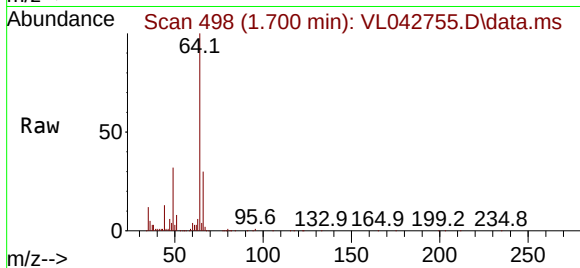
#7
Chloroethane
Concen: 8.641 ppbv
RT: 1.700 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 64 Resp: 26125
Ion Ratio Lower Upper
64 100
66 29.8 24.1 36.1

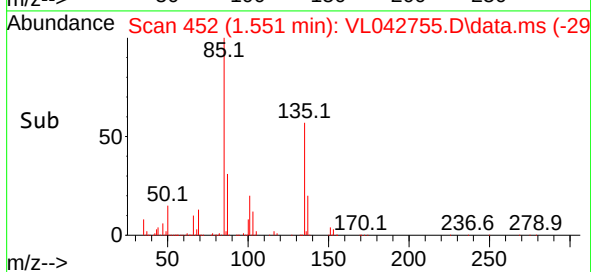
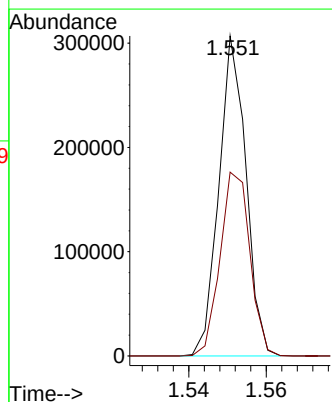
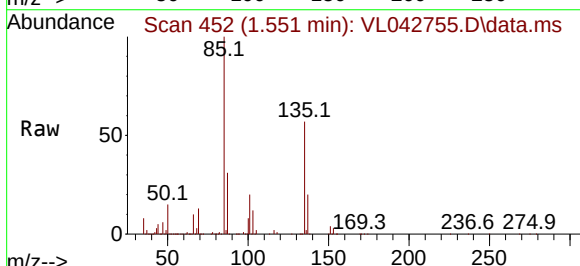
Manual Integrations
APPROVED

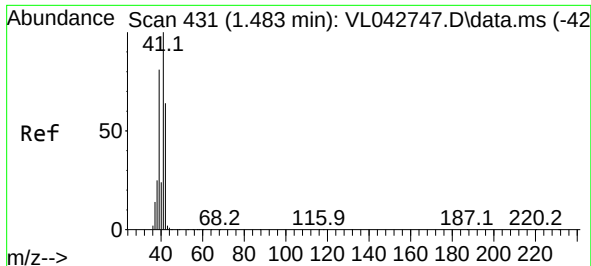
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 9.244 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 148833
Ion Ratio Lower Upper
85 100
135 63.6 50.6 76.0





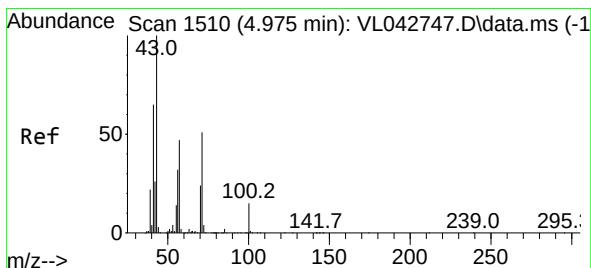
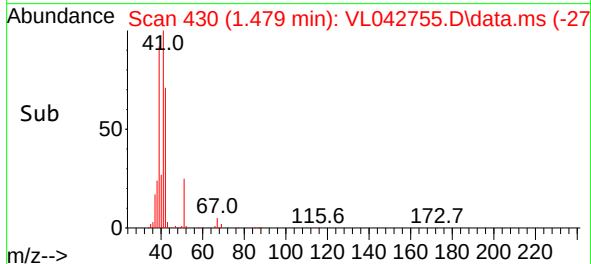
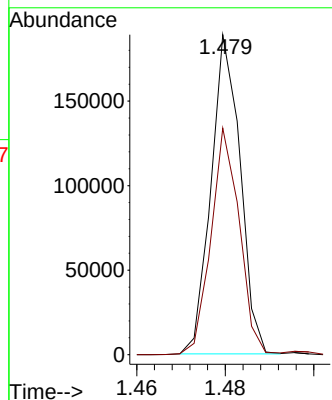
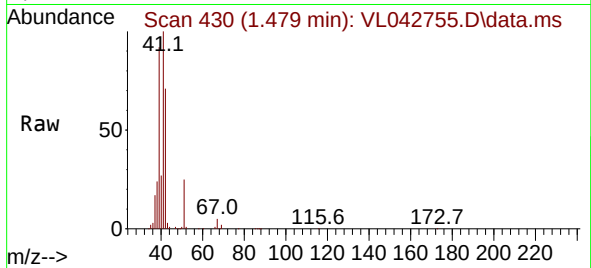
#9
Propene
Concen: 9.316 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 41 Resp: 8634
Ion Ratio Lower Upper
41 100
42 70.7 53.2 79.8

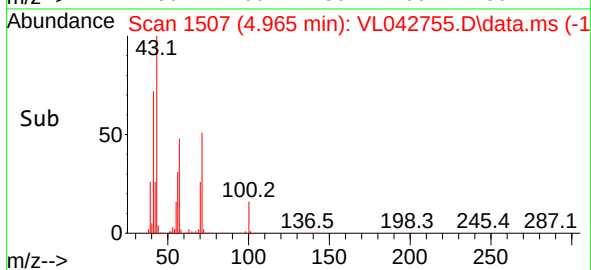
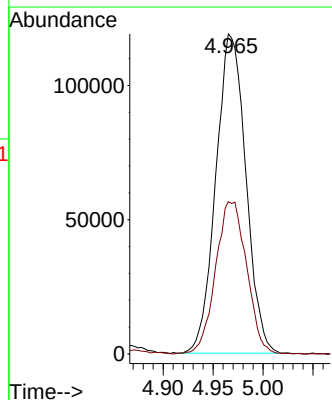
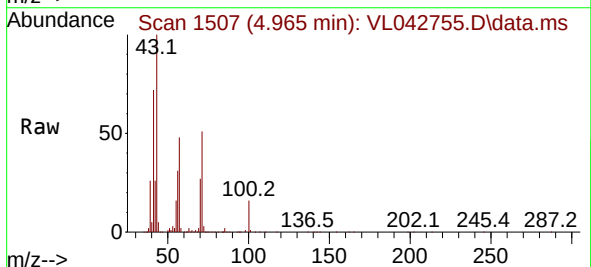
Manual Integrations
APPROVED

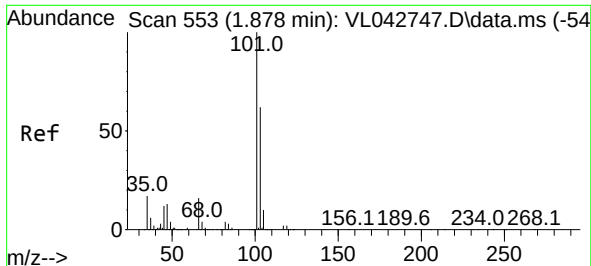
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#10
Heptane
Concen: 9.921 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

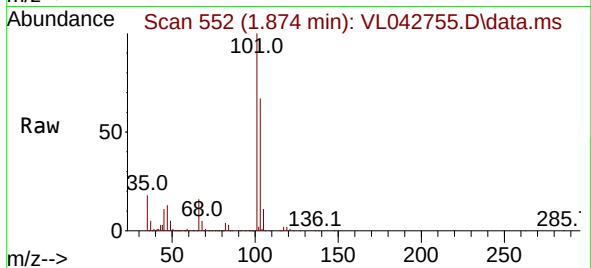
Tgt Ion: 43 Resp: 247934
Ion Ratio Lower Upper
43 100
57 49.5 39.9 59.9





#11
Trichlorofluoromethane
Concen: 8.902 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

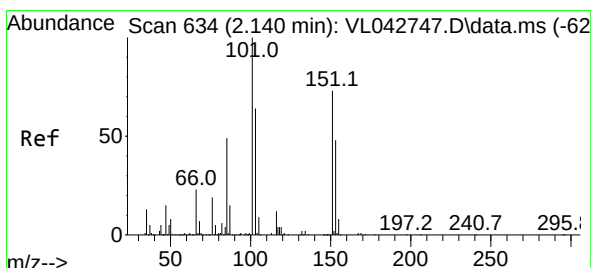
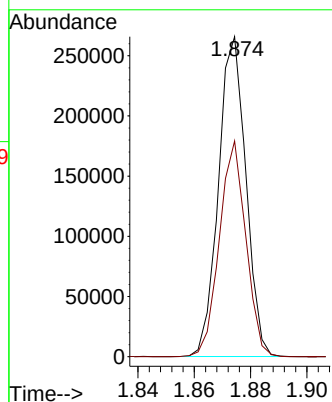
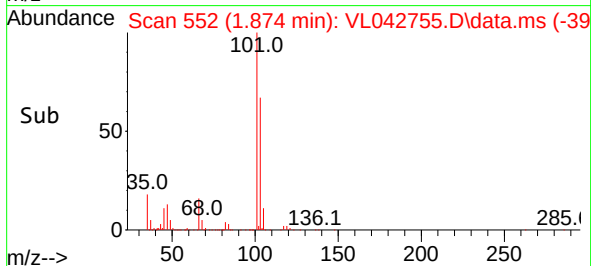
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



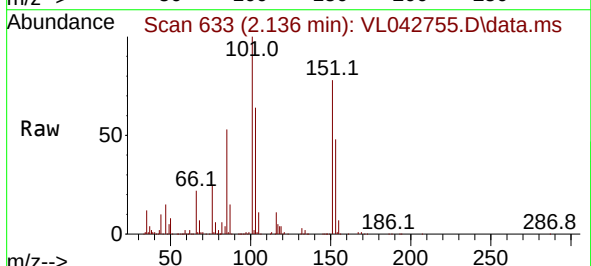
Tgt Ion:101 Resp: 17964
Ion Ratio Lower Upper
101 100
103 67.4 49.6 74.4

Manual Integrations
APPROVED

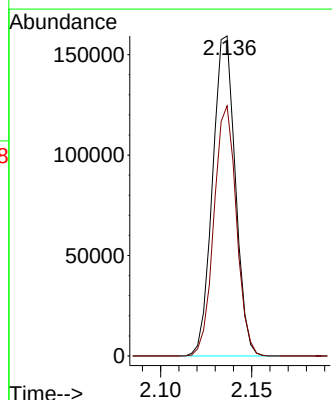
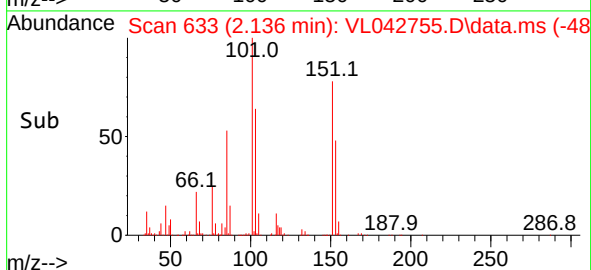
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

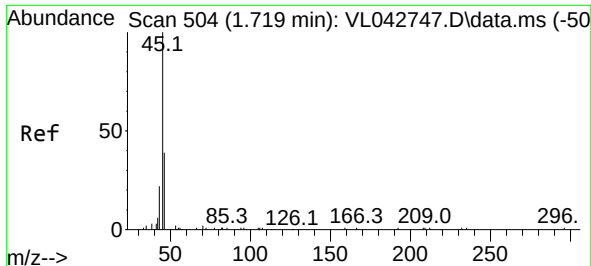


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.023 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



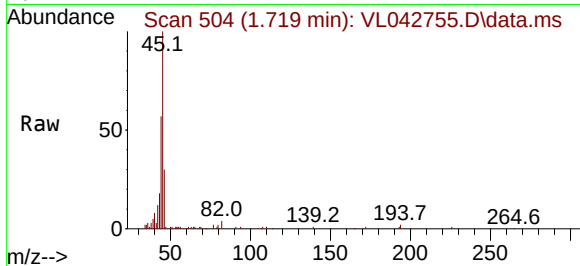
Tgt Ion:101 Resp: 138363
Ion Ratio Lower Upper
101 100
151 76.9 60.5 90.7





#13
Ethanol
Concen: 10.243 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

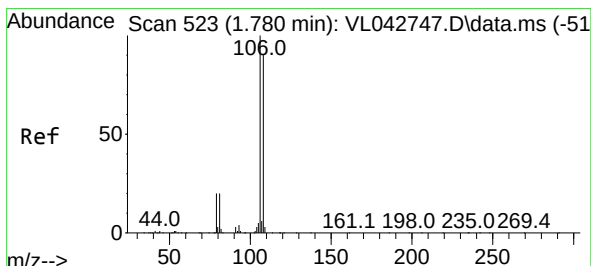
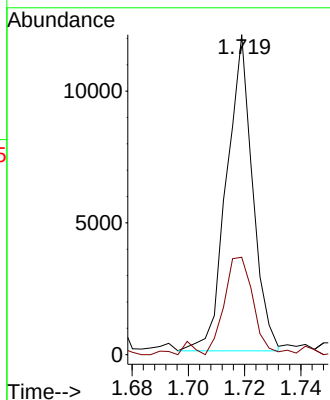
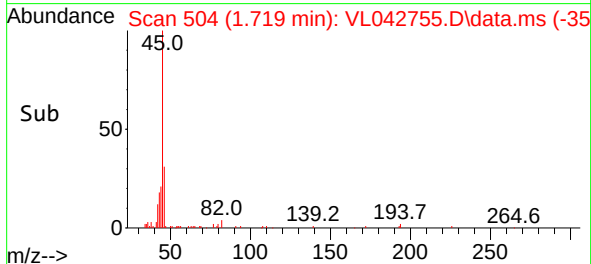
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



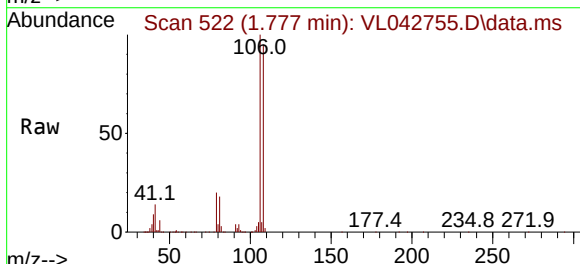
Tgt Ion: 45 Resp: 7690
Ion Ratio Lower Upper
45 100
46 39.7 17.8 71.4

Manual Integrations
APPROVED

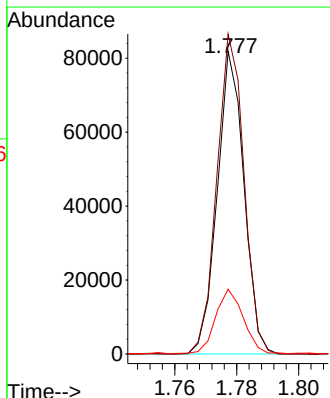
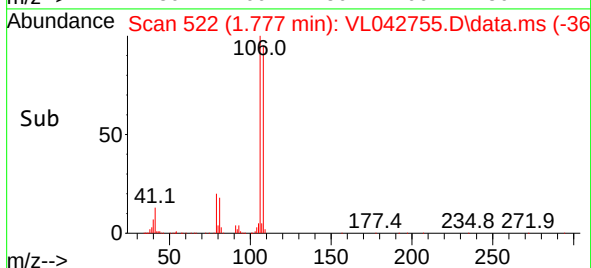
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

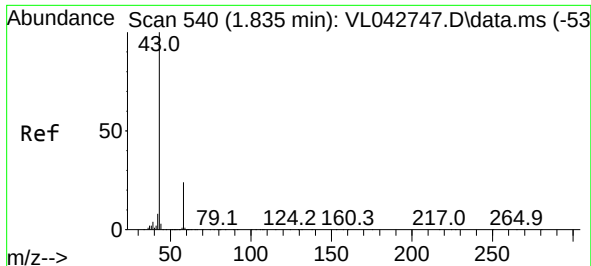


#14
Bromoethene
Concen: 9.020 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



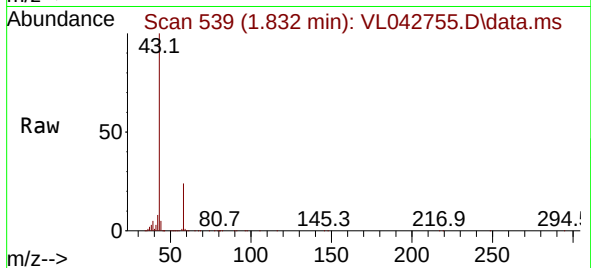
Tgt Ion:108 Resp: 48972
Ion Ratio Lower Upper
108 100
106 107.5 84.7 127.1
79 23.5 17.4 26.2





#15
Acetone
Concen: 7.324 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

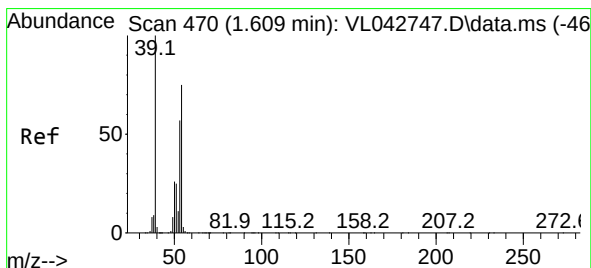
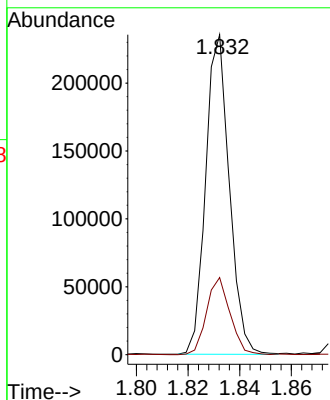
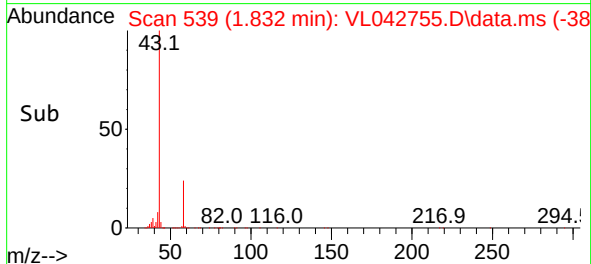
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



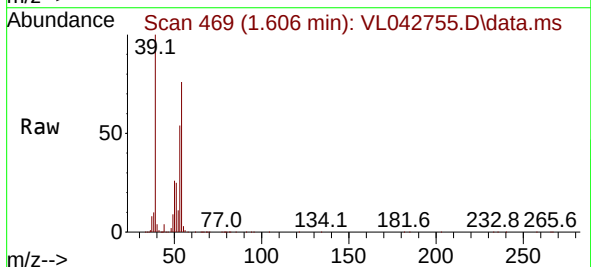
Tgt Ion: 43 Resp: 14974
Ion Ratio Lower Upper
43 100
58 24.2 19.8 29.8

Manual Integrations
APPROVED

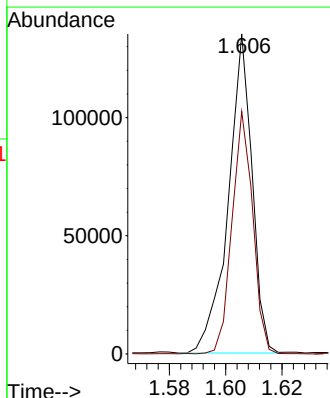
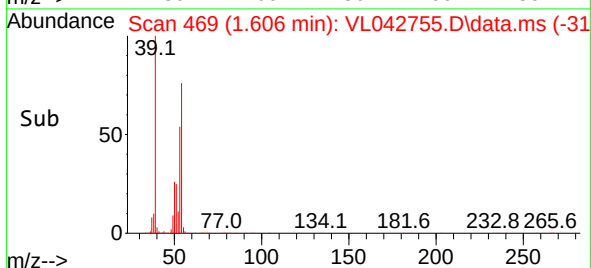
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

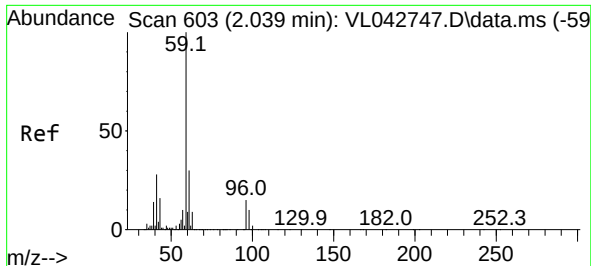


#16
1,3-Butadiene
Concen: 9.072 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 39 Resp: 79112
Ion Ratio Lower Upper
39 100
54 66.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.225 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 59 Resp: 170090

Ion Ratio Lower Upper

59 100

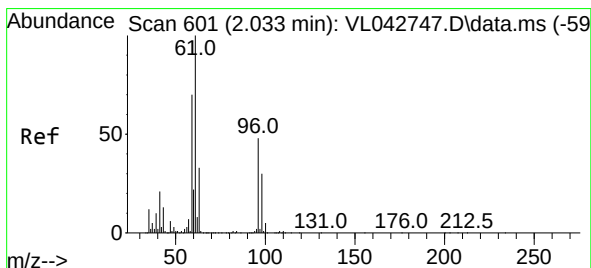
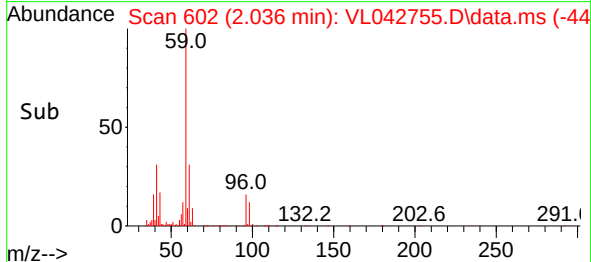
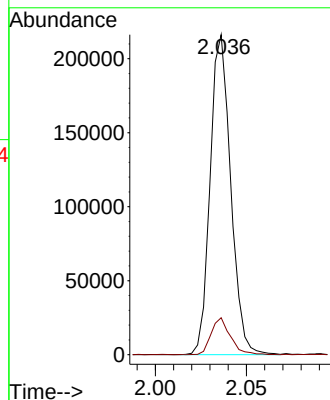
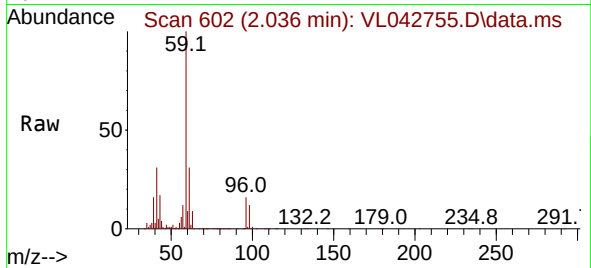
57 11.0 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 8.970 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

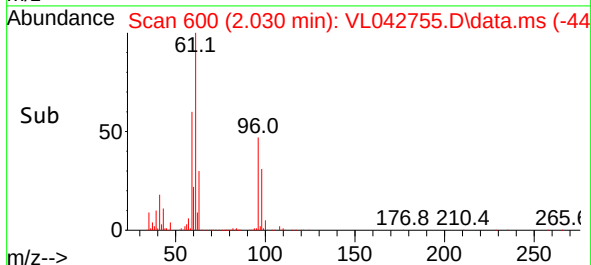
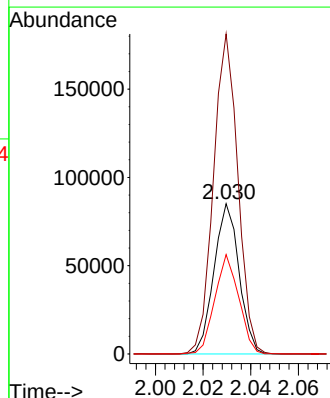
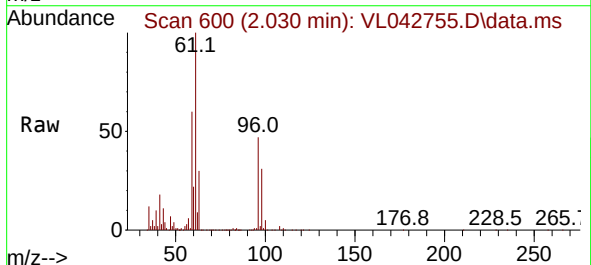
Tgt Ion: 96 Resp: 62149

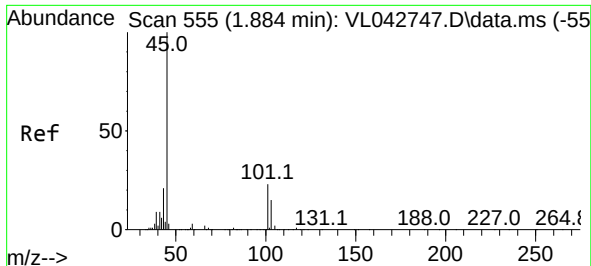
Ion Ratio Lower Upper

96 100

61 212.9 165.8 248.6

98 66.1 49.9 74.9





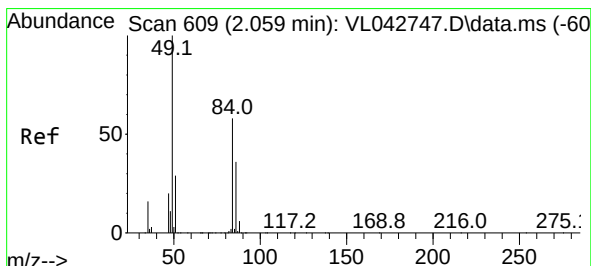
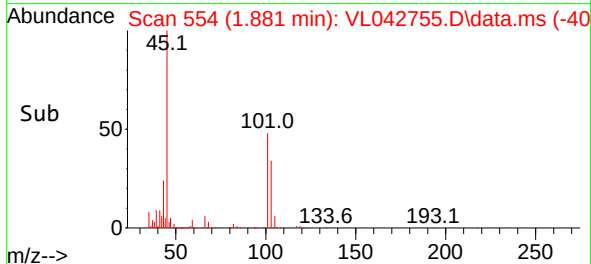
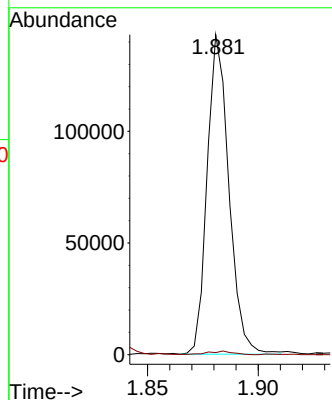
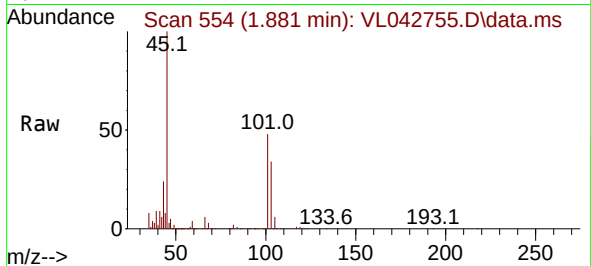
#19
Isopropyl Alcohol
Concen: 9.006 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion: 45 Resp: 97844
Ion Ratio Lower Upper
45 100
58 37.1 30.0 45.0

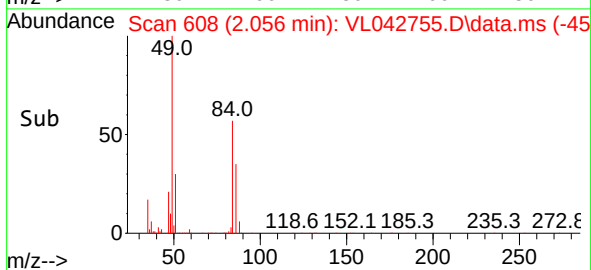
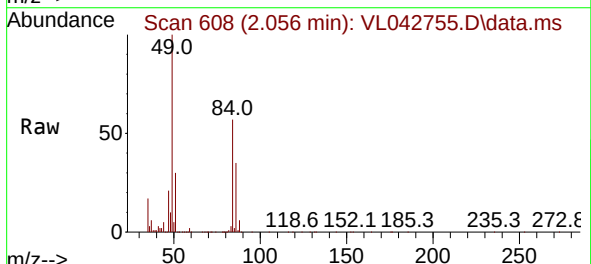
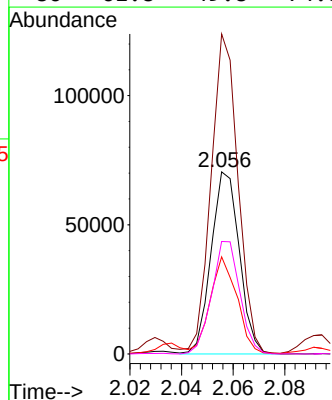
Manual Integrations
APPROVED

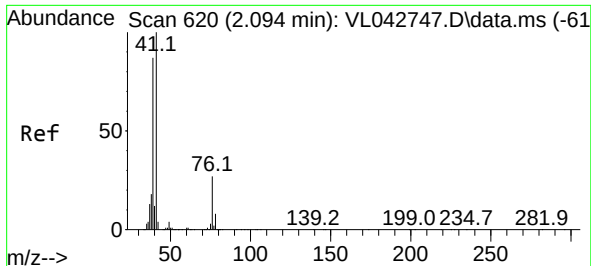
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#20
Methylene Chloride
Concen: 8.320 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 53608
Ion Ratio Lower Upper
84 100
49 175.3 138.6 208.0
51 53.0 40.6 61.0
86 61.8 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.441 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

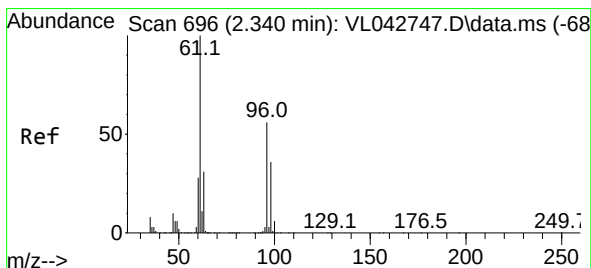
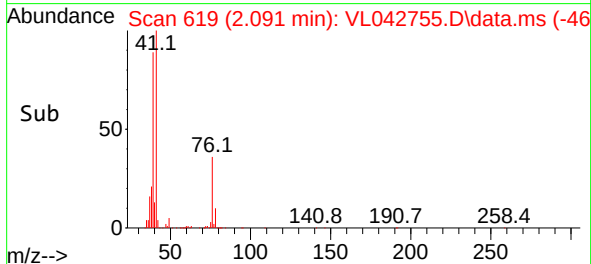
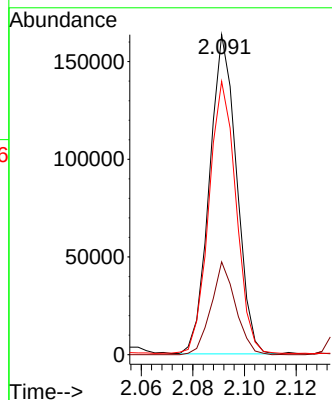
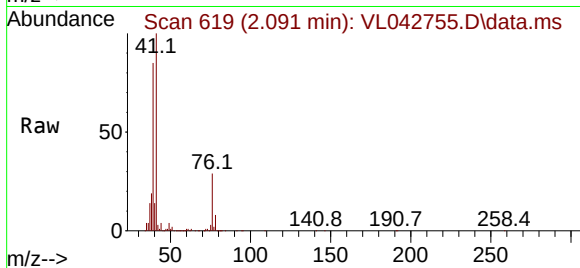
ICVVL072325

Tgt Ion: 41 Resp: 118958
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 85.9 68.3 102.5

Manual Integrations

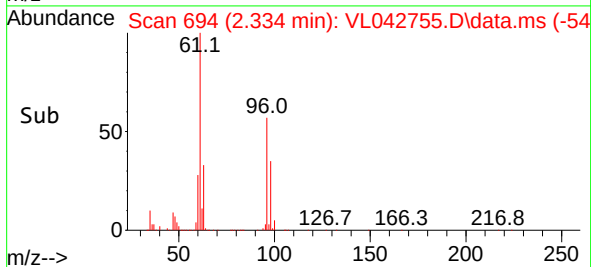
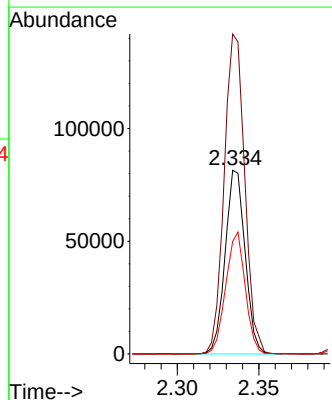
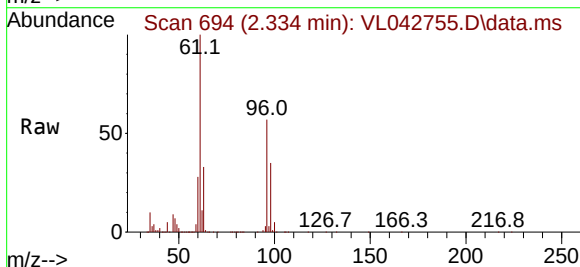
APPROVED

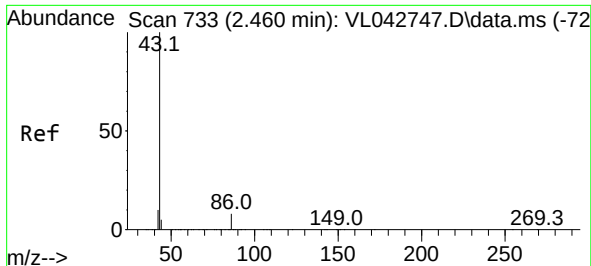
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.322 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 69482
 Ion Ratio Lower Upper
 96 100
 61 174.3 142.3 213.5
 98 61.3 50.6 76.0





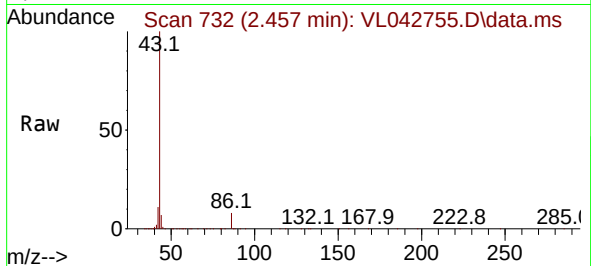
#23
 Vinyl Acetate
 Concen: 10.568 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

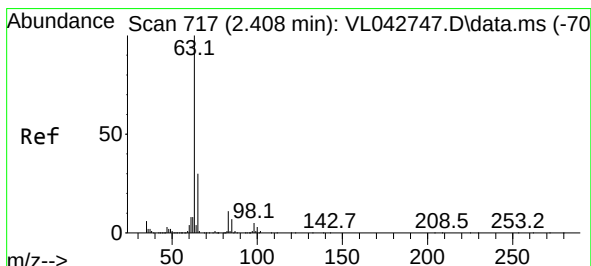
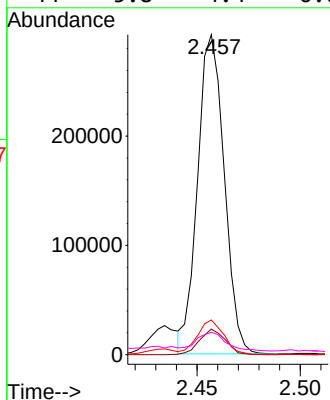
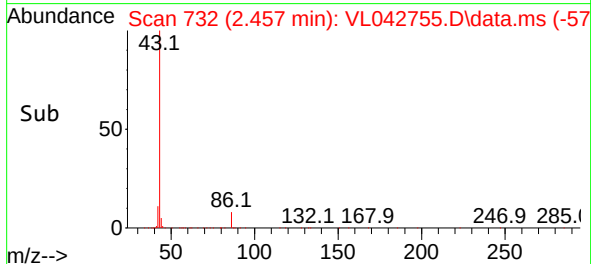


Tgt Ion: 43 Resp: 261938
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.1 9.1
 42 10.7 7.8 11.8
 44 5.8 4.4 6.6

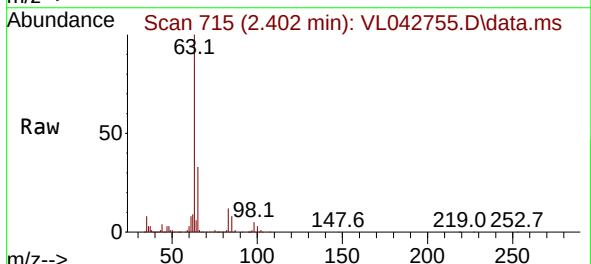
Manual Integrations

APPROVED

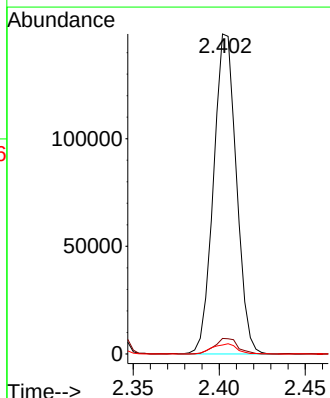
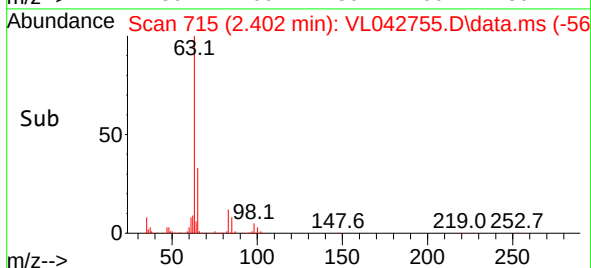
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

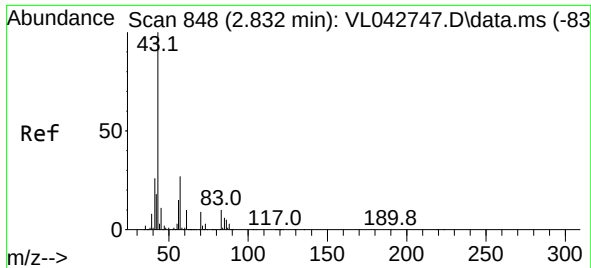


#24
 1,1-Dichloroethane
 Concen: 8.993 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



Tgt Ion: 63 Resp: 137586
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.5 7.4
 100 2.8 1.6 4.8





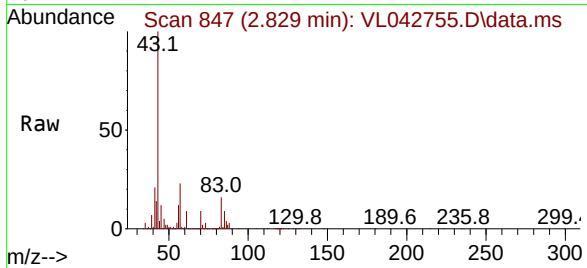
#25
Ethyl Acetate
Concen: 9.816 ppbv
RT: 2.829 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

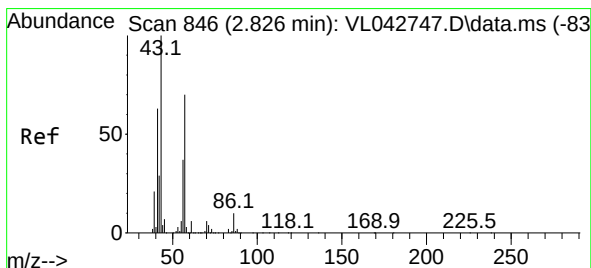
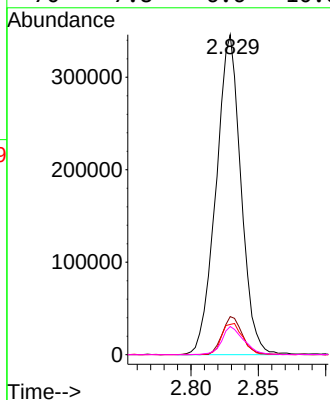
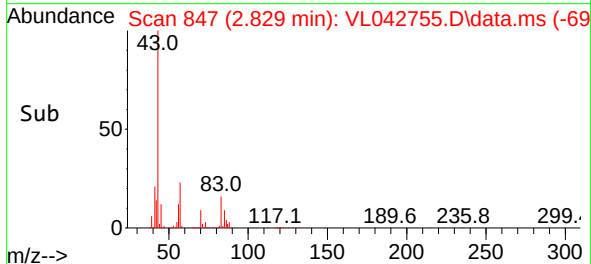


Tgt Ion: 43 Resp: 444208
Ion Ratio Lower Upper
43 100
45 9.7 7.8 11.6
61 8.7 6.7 10.1
70 7.8 6.6 10.0

Manual Integrations

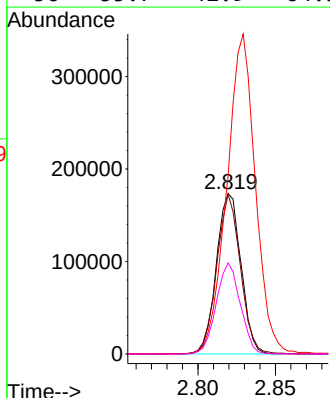
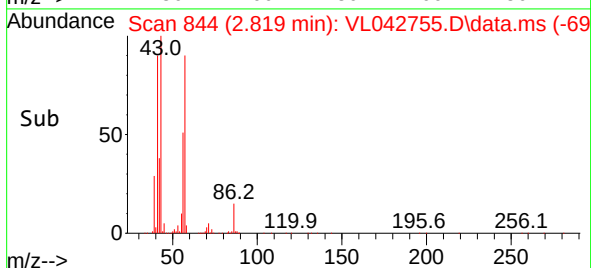
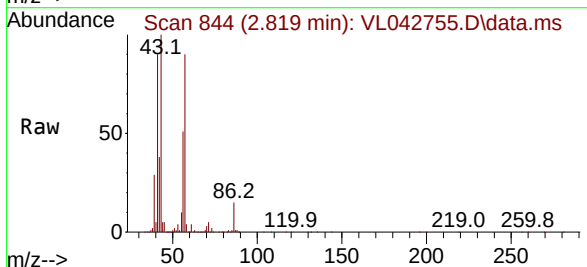
APPROVED

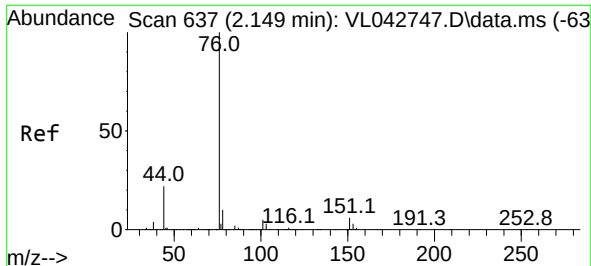
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 9.597 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

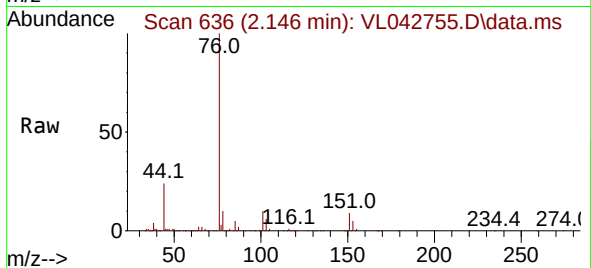
Tgt Ion: 57 Resp: 190523
Ion Ratio Lower Upper
57 100
41 96.3 75.4 113.2
43 234.2 185.0 277.6
56 55.7 42.9 64.3





#27
Carbon Disulfide
Concen: 9.652 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

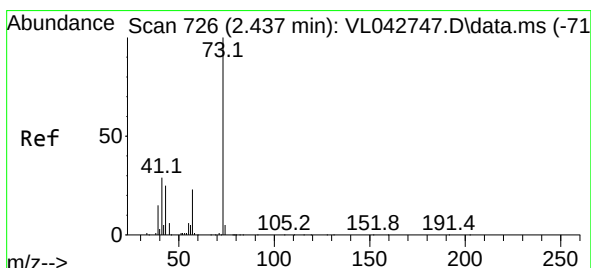
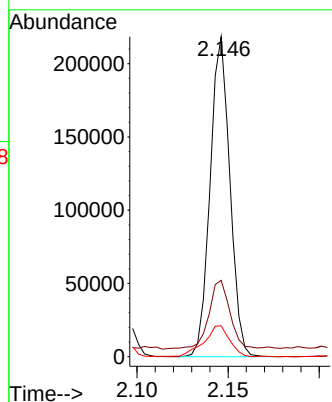
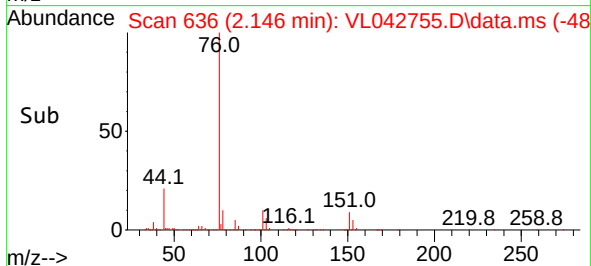
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



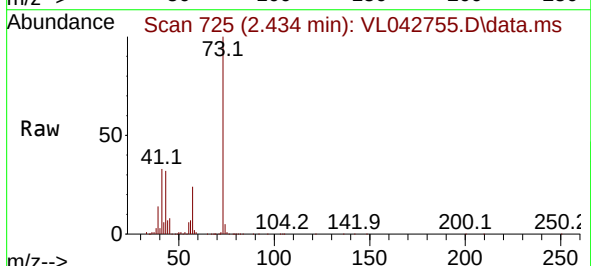
Tgt Ion: 76 Resp: 164040
Ion Ratio Lower Upper
76 100
44 23.7 19.3 28.9
78 12.7 9.9 14.9

Manual Integrations
APPROVED

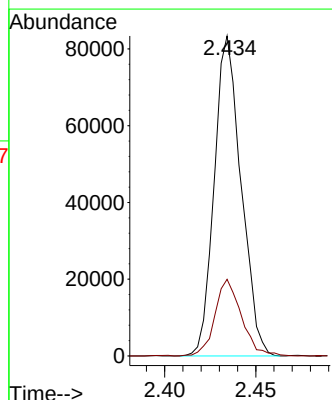
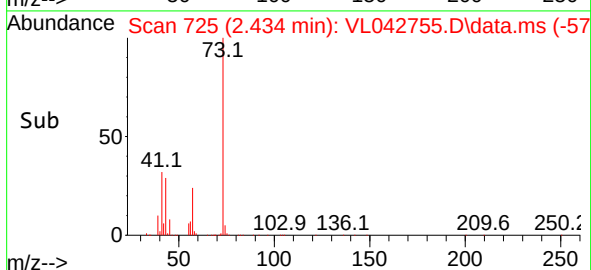
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

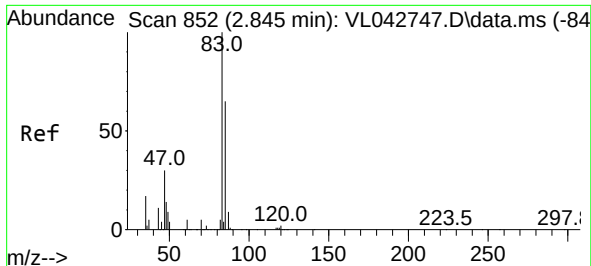


#28
Methyl tert-Butyl Ether
Concen: 9.114 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 73 Resp: 85480
Ion Ratio Lower Upper
73 100
57 23.8 19.8 29.8





#29

Chloroform

Concen: 9.643 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 83 Resp: 295808

Ion Ratio Lower Upper

83 100

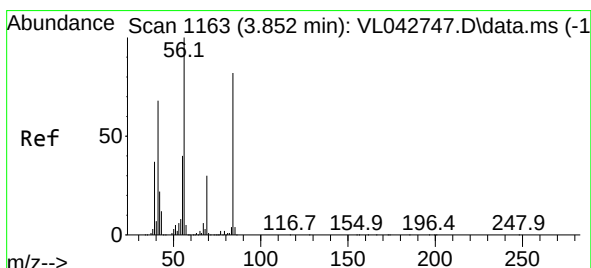
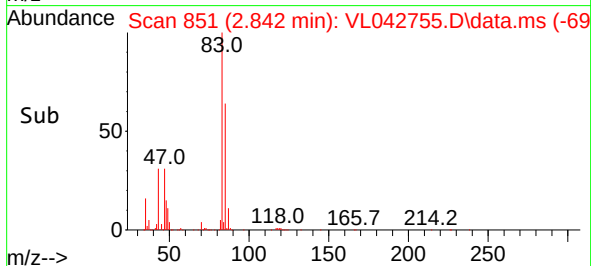
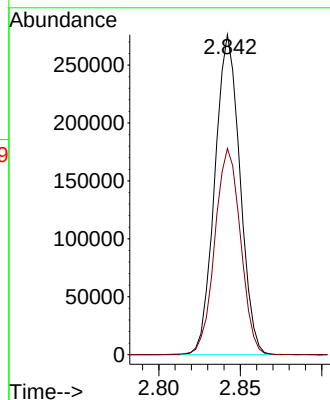
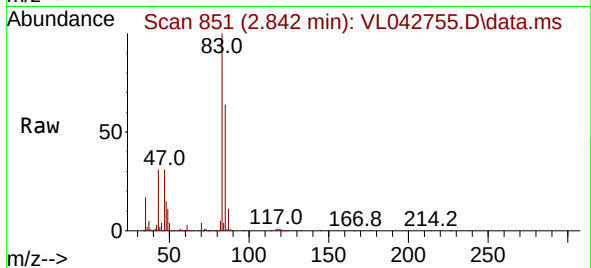
85 64.4 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 9.773 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

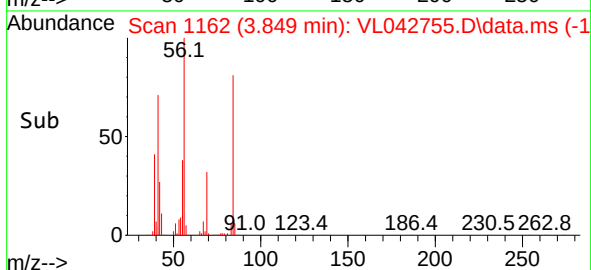
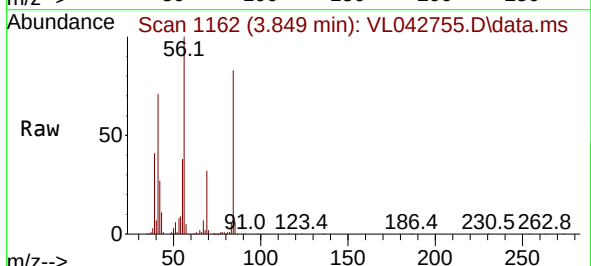
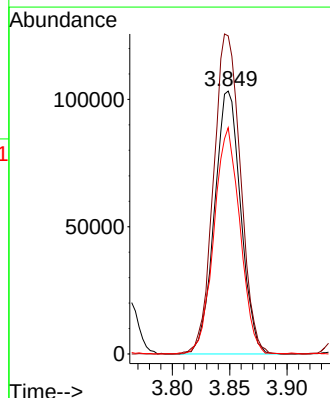
Tgt Ion: 84 Resp: 164554

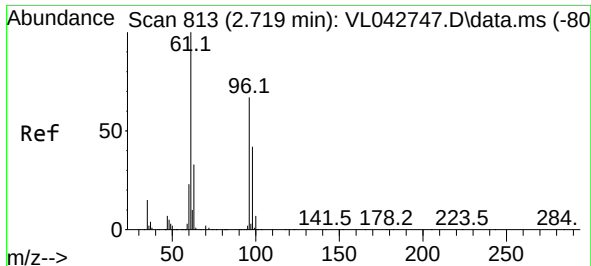
Ion Ratio Lower Upper

84 100

56 124.9 97.5 146.3

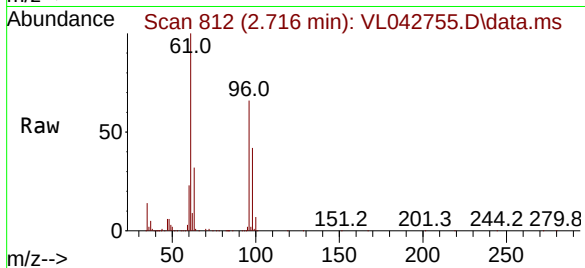
41 85.5 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.802 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

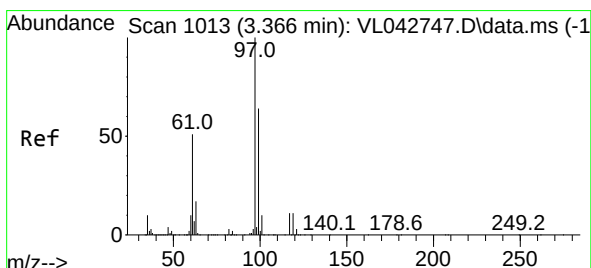
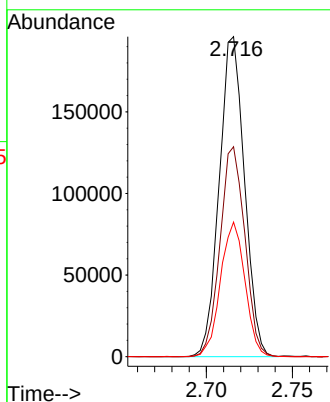
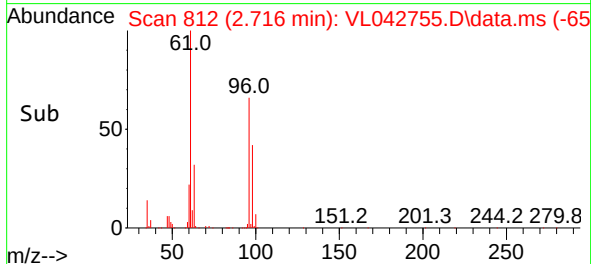
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



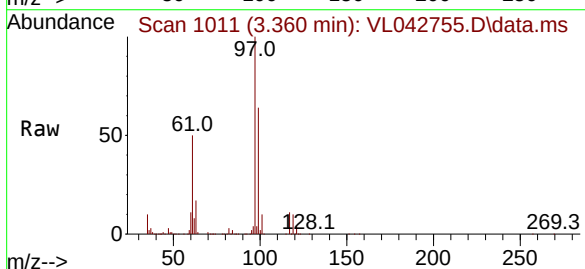
Tgt Ion: 61 Resp: 199970
 Ion Ratio Lower Upper
 61 100
 96 65.6 53.5 80.3
 98 42.1 33.6 50.4

Manual Integrations
 APPROVED

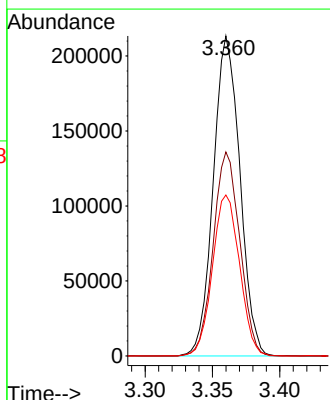
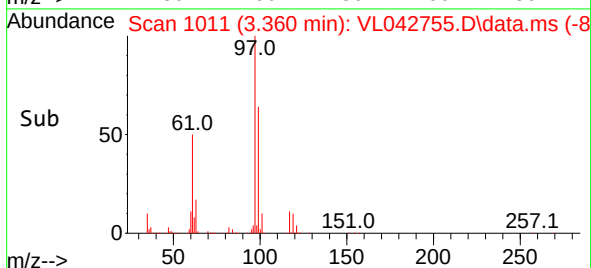
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

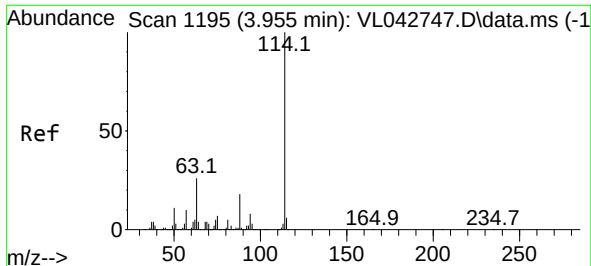


#32
 1,1,1-Trichloroethane
 Concen: 9.172 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



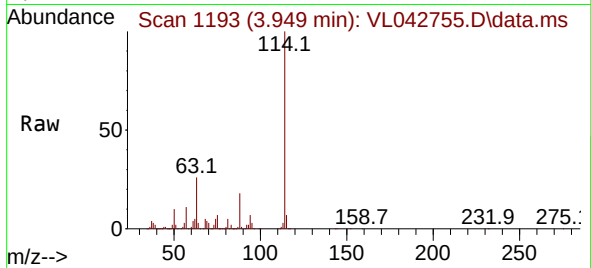
Tgt Ion: 97 Resp: 293074
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 51.4 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

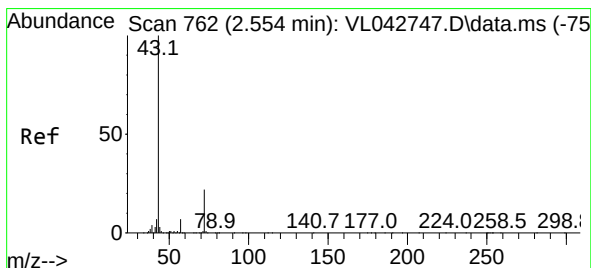
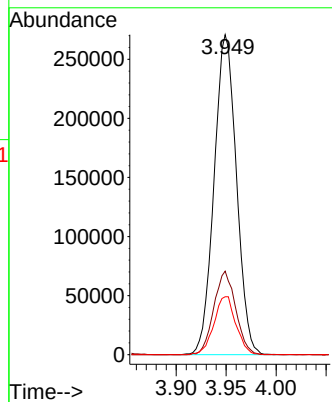
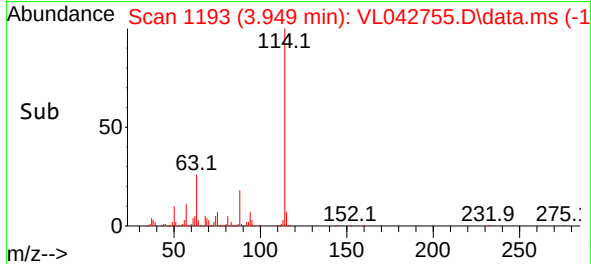
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



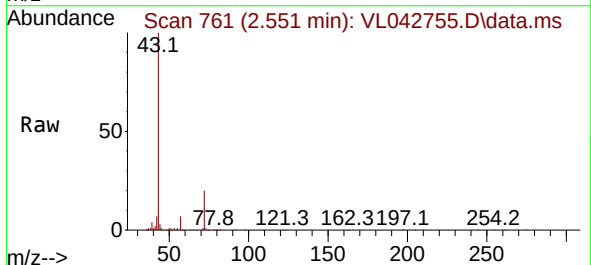
Tgt Ion:114 Resp: 42174
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.8 14.0 21.0

Manual Integrations
APPROVED

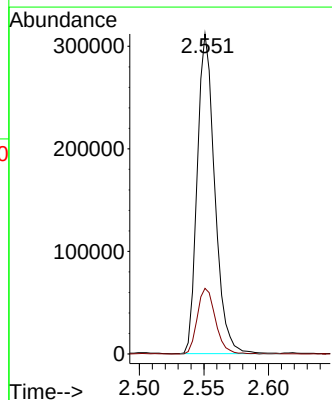
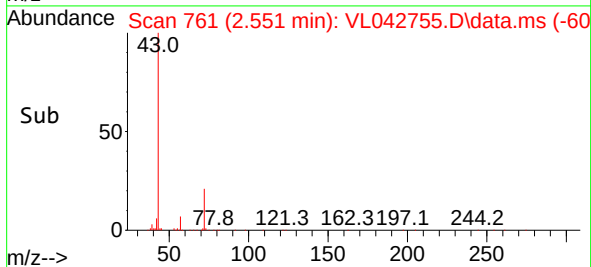
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

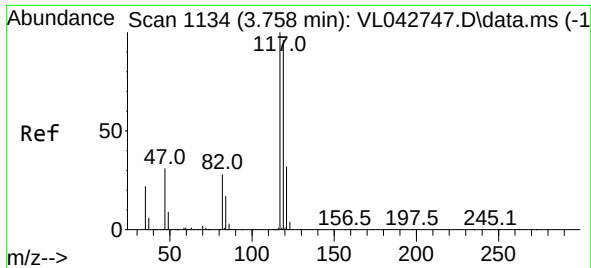


#34
2-Butanone
Concen: 9.869 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 43 Resp: 294837
Ion Ratio Lower Upper
43 100
72 21.4 17.4 26.0





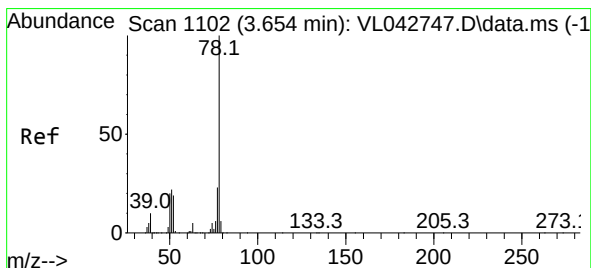
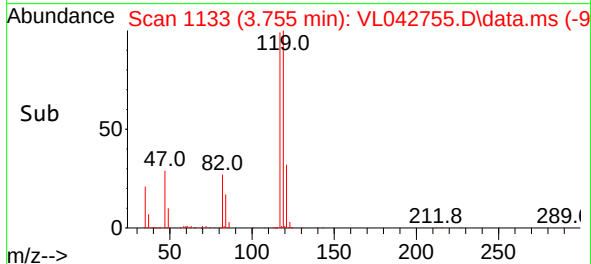
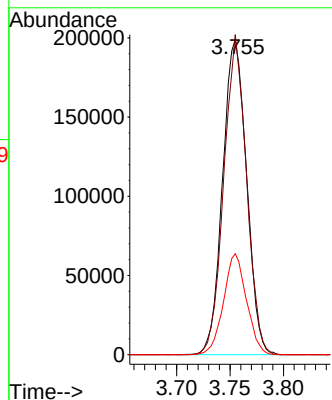
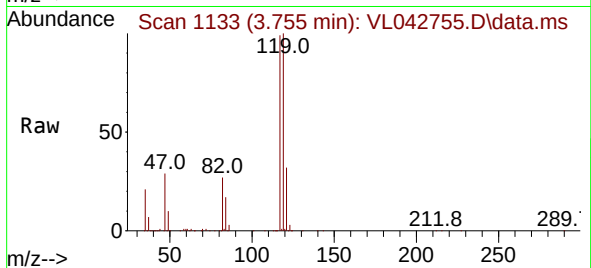
#35
Carbon Tetrachloride
Concen: 9.900 ppbv
RT: 3.755 min Scan# 1112
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion:117 Resp: 310129
Ion Ratio Lower Upper
117 100
119 101.4 77.1 115.7
121 32.0 25.5 38.3

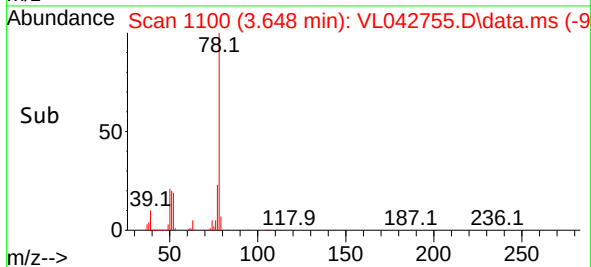
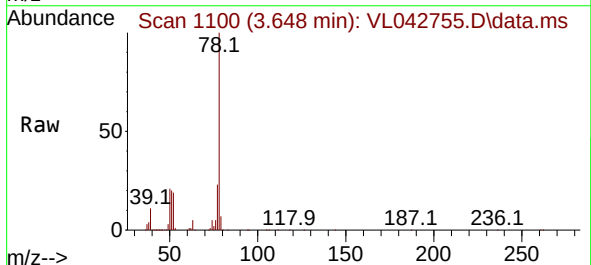
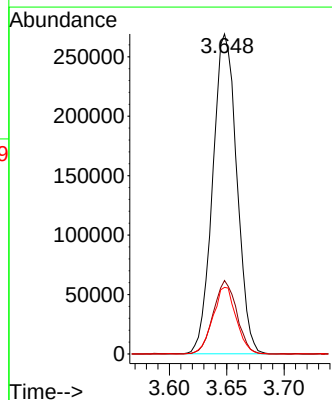
Manual Integrations
APPROVED

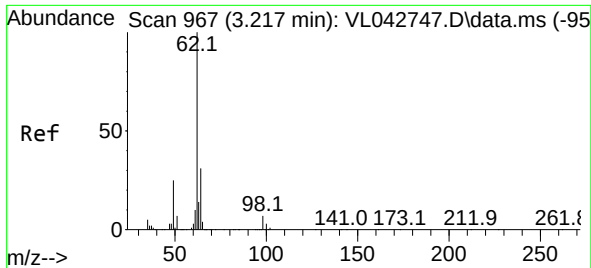
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36
Benzene
Concen: 9.834 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

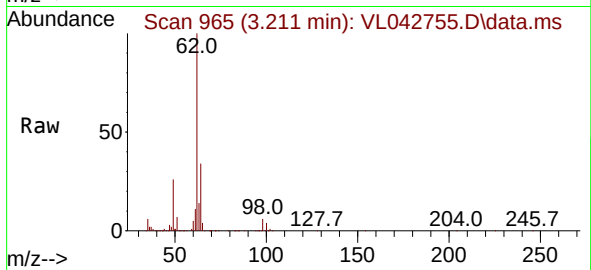
Tgt Ion: 78 Resp: 393085
Ion Ratio Lower Upper
78 100
77 22.9 18.5 27.7
50 20.8 16.2 24.2





#37
1,2-Dichloroethane
Concen: 9.895 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

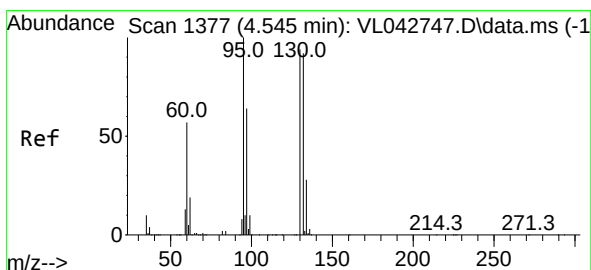
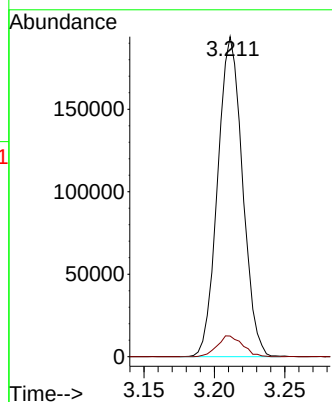
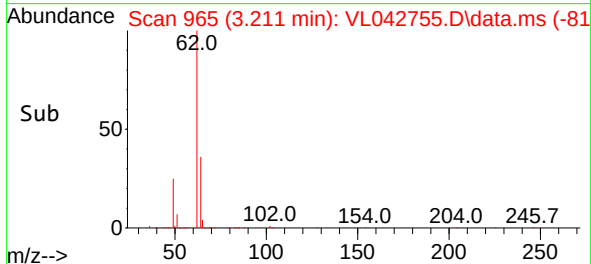
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



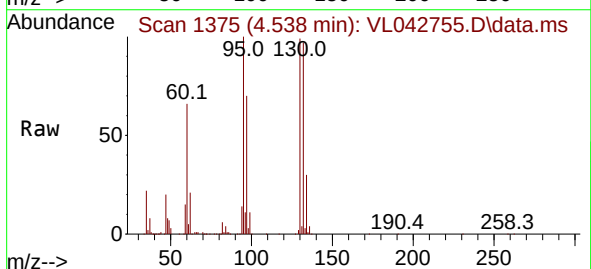
Tgt Ion: 62 Resp: 238249
Ion Ratio Lower Upper
62 100
98 6.6 5.2 7.8

Manual Integrations
APPROVED

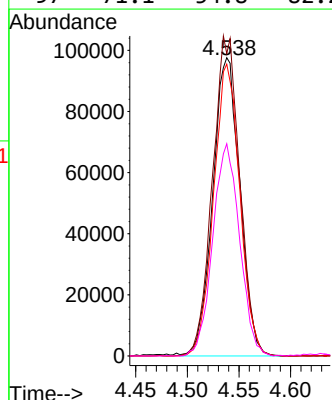
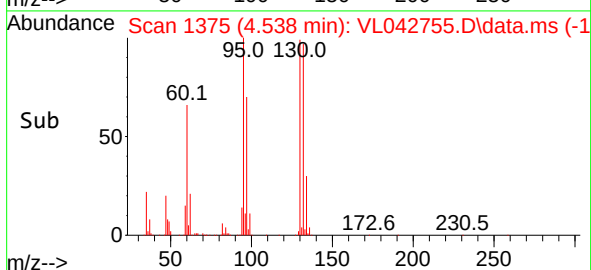
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

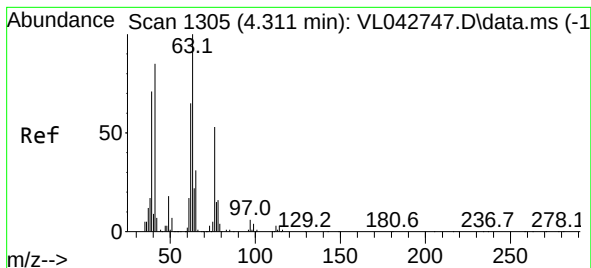


#38
Trichloroethene
Concen: 9.301 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion:130 Resp: 178600
Ion Ratio Lower Upper
130 100
95 101.3 85.4 128.2
132 97.7 78.2 117.2
97 71.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 9.578 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 63 Resp: 141310

Ion Ratio Lower Upper

63 100

41 84.3 68.2 102.4

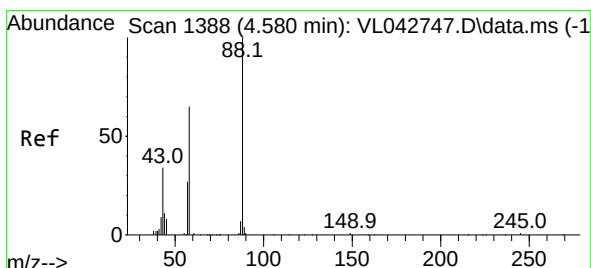
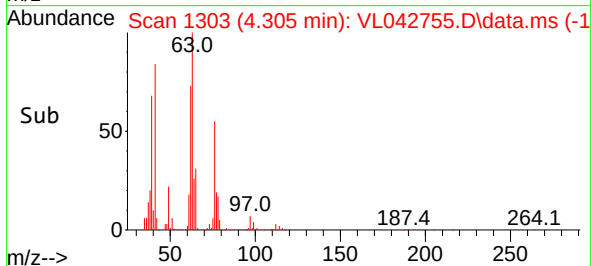
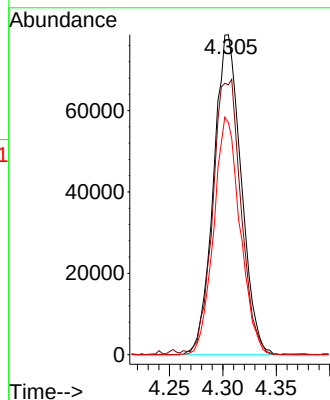
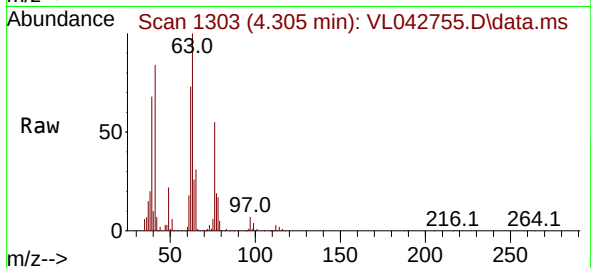
62 72.5 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 9.481 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. -0.010 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion: 88 Resp: 65204

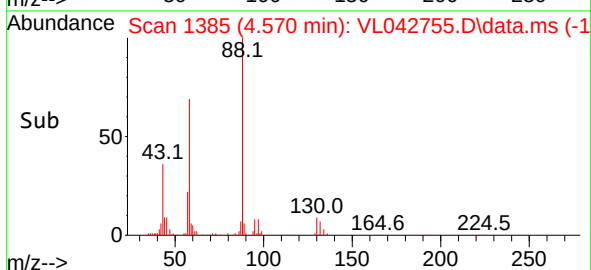
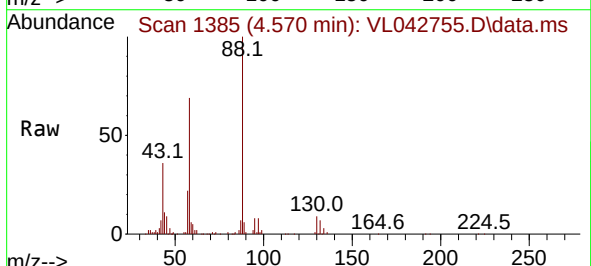
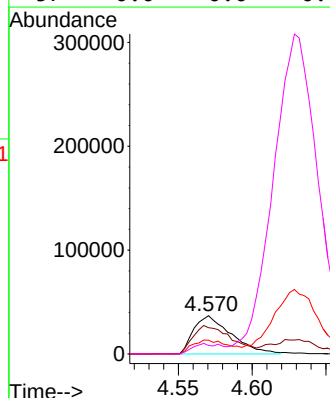
Ion Ratio Lower Upper

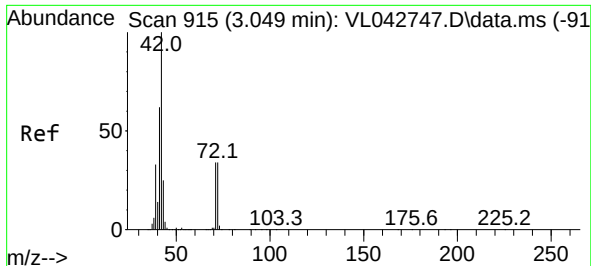
88 100

58 78.4 58.8 88.2

43 32.6 28.9 43.3

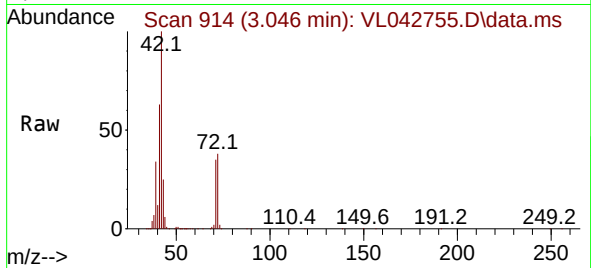
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.404 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

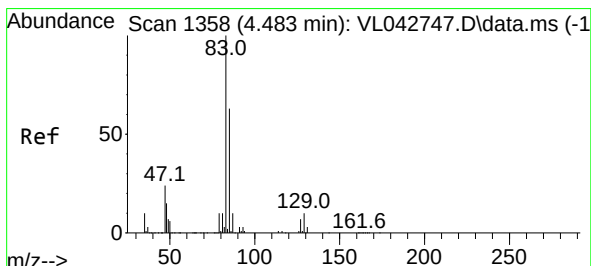
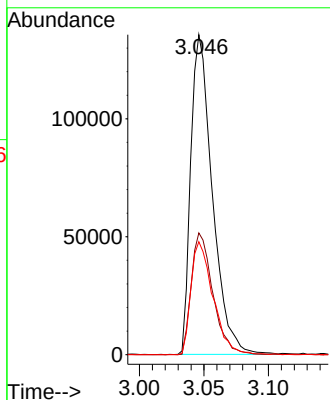
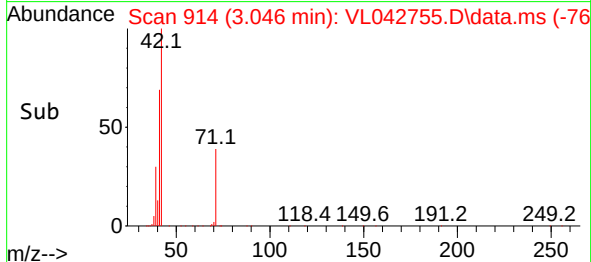
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



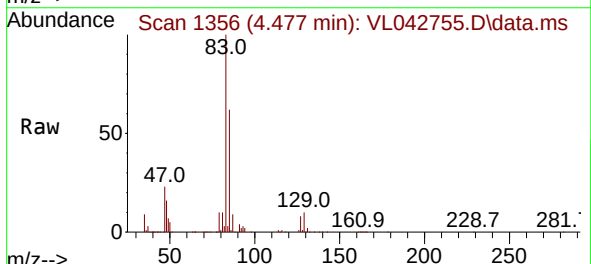
Tgt Ion: 42 Resp: 158159
Ion Ratio Lower Upper
42 100
72 38.2 30.9 46.3
71 36.2 28.6 43.0

Manual Integrations
APPROVED

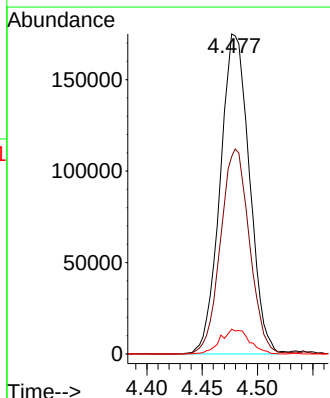
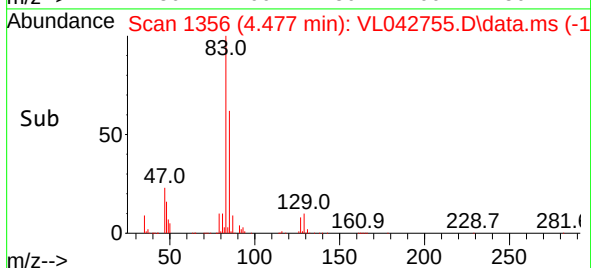
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

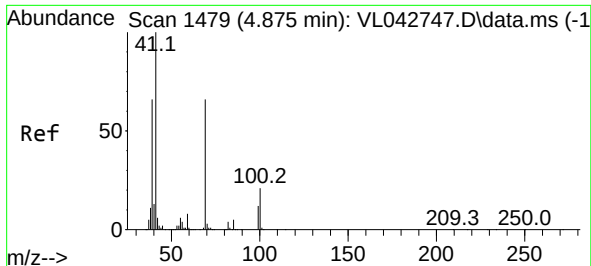


#42
Bromodichloromethane
Concen: 10.254 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 83 Resp: 321549
Ion Ratio Lower Upper
83 100
85 61.6 50.2 75.4
127 7.7 5.4 8.2





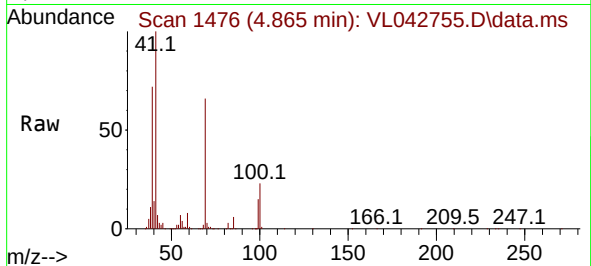
#43
Methyl Methacrylate
Concen: 10.738 ppbv
RT: 4.865 min Scan# 1479
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

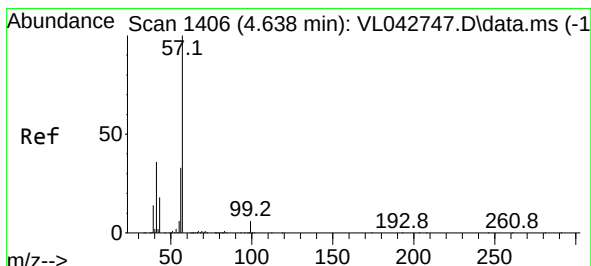
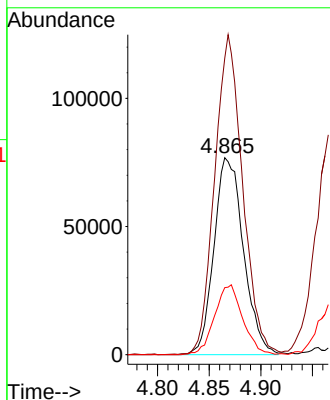
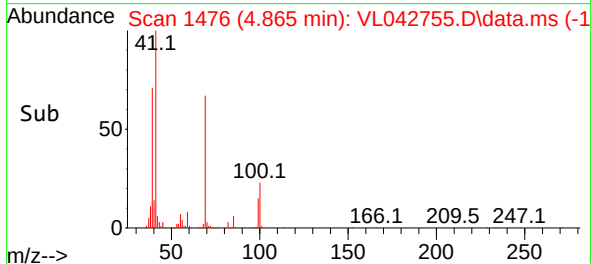


Tgt Ion: 69 Resp: 15255
Ion Ratio Lower Upper
69 100
41 153.9 125.7 188.5
100 33.9 28.6 42.8

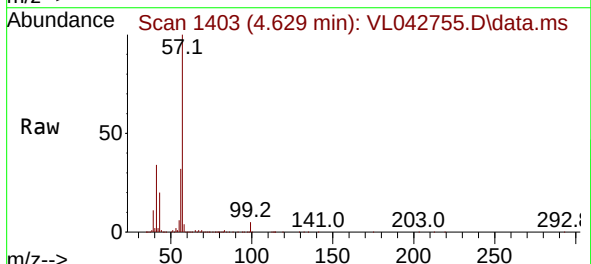
Manual Integrations

APPROVED

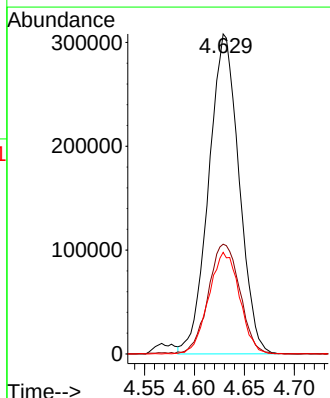
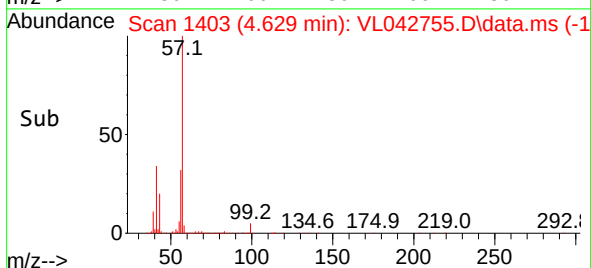
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

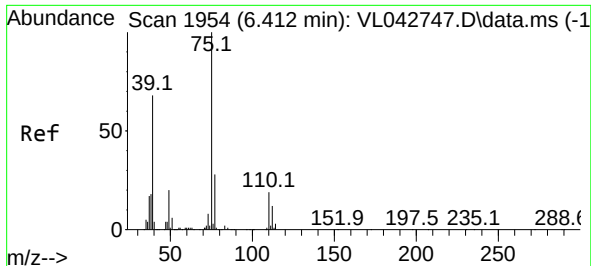


#44
2,2,4-Trimethylpentane
Concen: 9.973 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 57 Resp: 649720
Ion Ratio Lower Upper
57 100
41 36.3 28.3 42.5
56 32.4 25.8 38.6





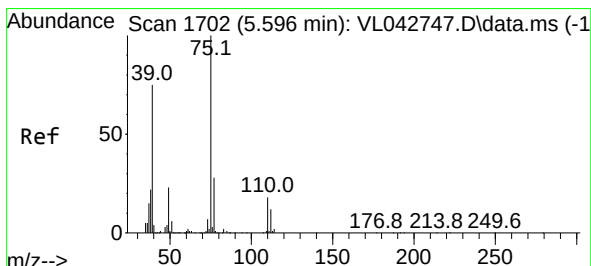
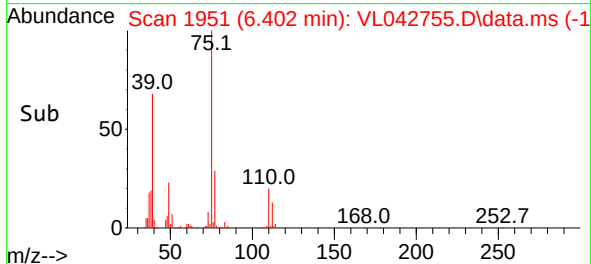
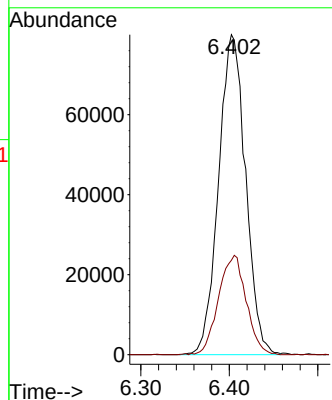
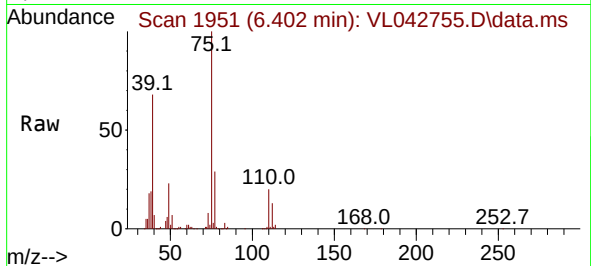
#45
t-1,3-Dichloropropene
Concen: 10.643 ppbv
RT: 6.402 min Scan# 1954
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion: 75 Resp: 16956
Ion Ratio Lower Upper
75 100
77 29.5 22.4 33.6

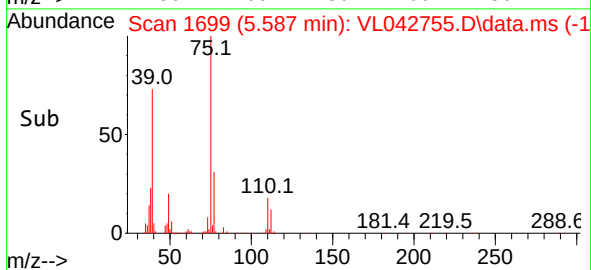
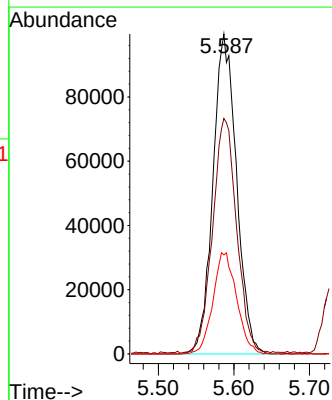
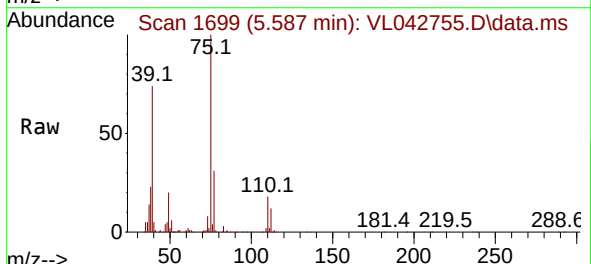
Manual Integrations
APPROVED

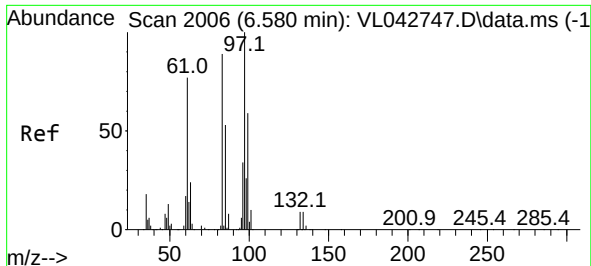
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 10.679 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

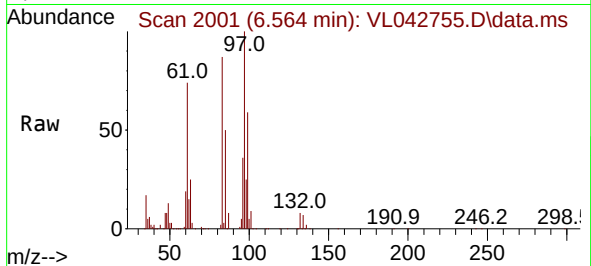
Tgt Ion: 75 Resp: 215596
Ion Ratio Lower Upper
75 100
39 73.3 60.2 90.2
77 30.9 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 9.848 ppbv m
RT: 6.564 min Scan# 2006
Delta R.T. -0.016 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

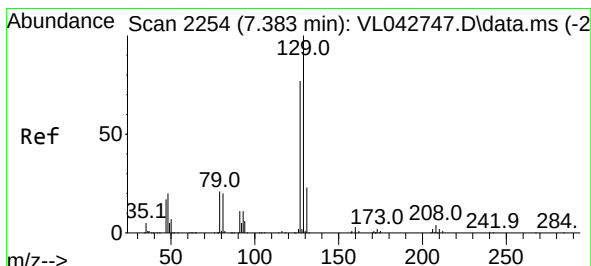
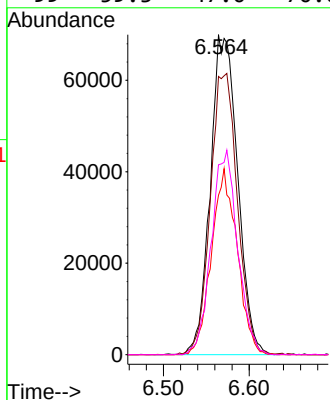
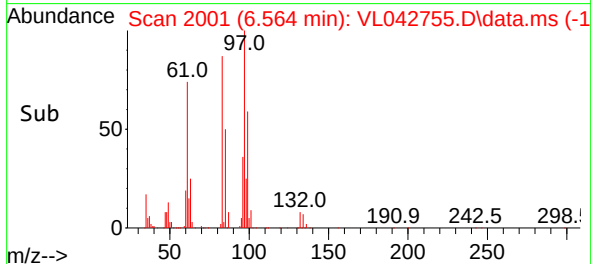
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion: 97 Resp: 15488
Ion Ratio Lower Upper
97 100
83 86.9 71.1 106.7
85 49.8 43.0 64.4
99 59.3 47.0 70.6

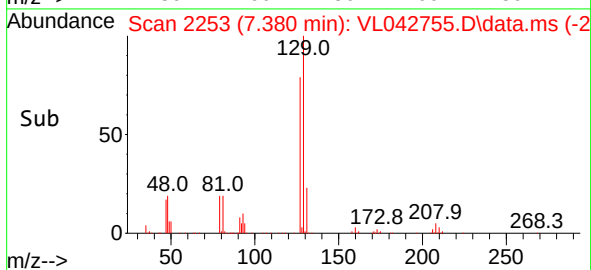
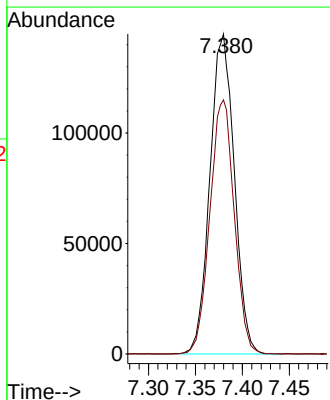
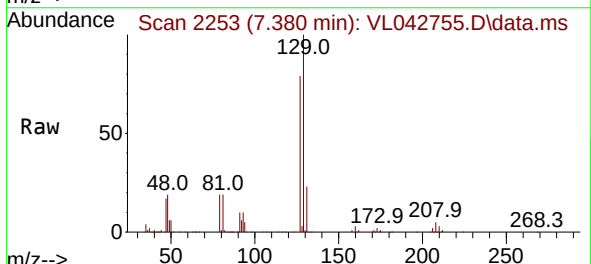
Manual Integrations
APPROVED

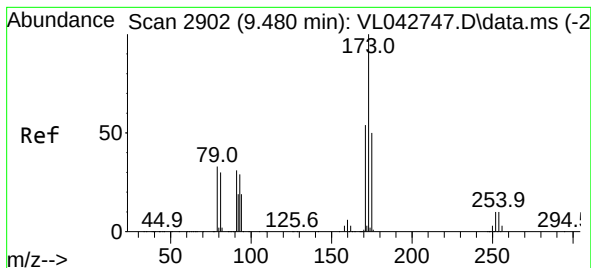
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#48
Dibromochloromethane
Concen: 10.460 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:129 Resp: 261174
Ion Ratio Lower Upper
129 100
127 79.4 38.7 116.1





#49

Bromoform

Concen: 10.729 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042755.D

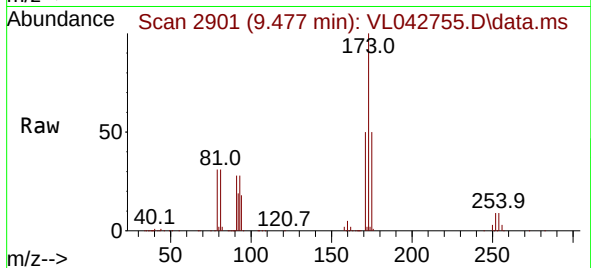
Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325



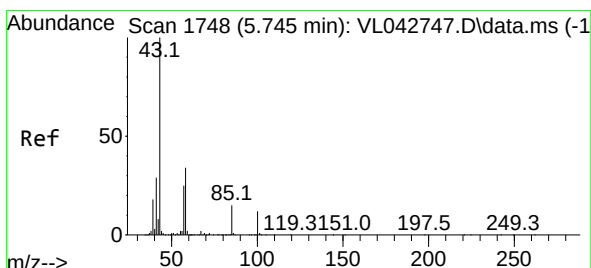
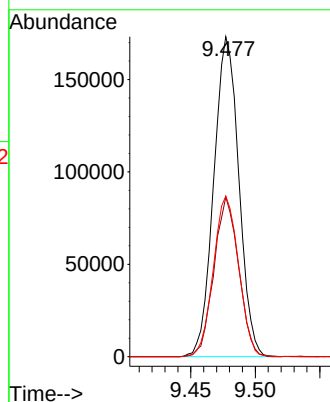
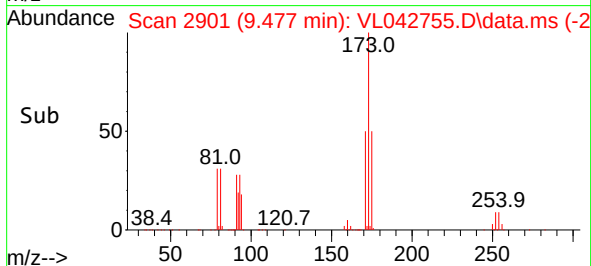
Tgt Ion: 173 Resp: 23357

Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.4	57.6
171	50.7	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 10.303 ppbv

RT: 5.736 min Scan# 1745

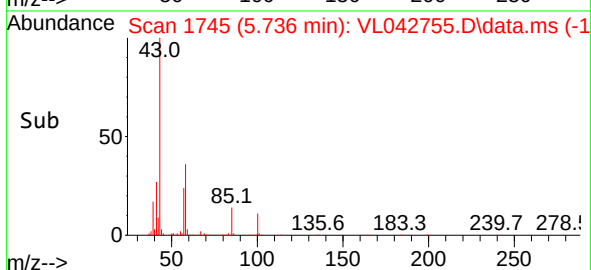
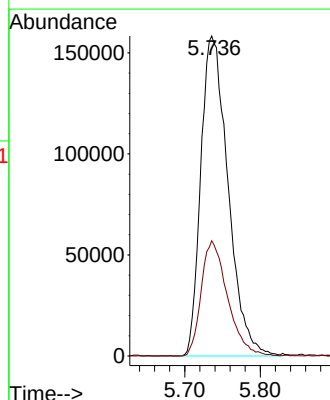
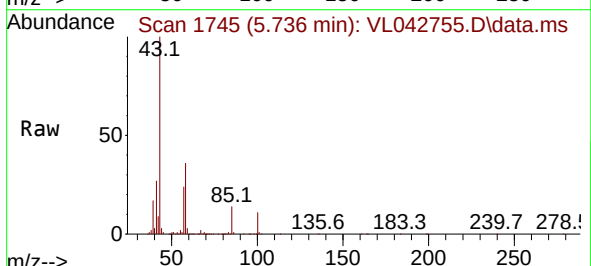
Delta R.T. -0.010 min

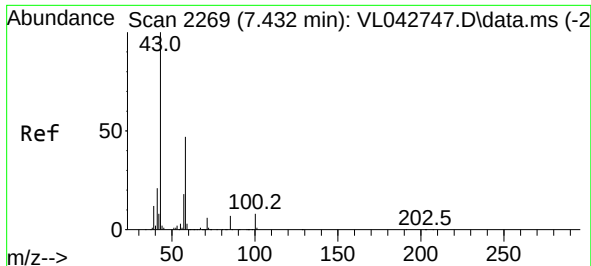
Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 396506

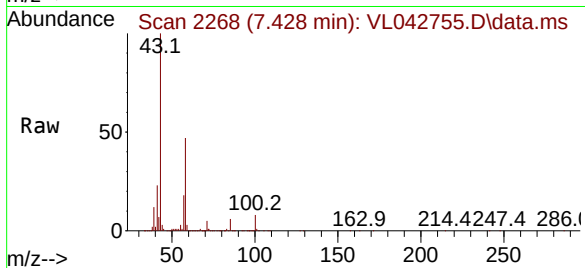
Ion	Ratio	Lower	Upper
43	100		
58	34.9	27.8	41.8





#51
2-Hexanone
Concen: 11.029 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

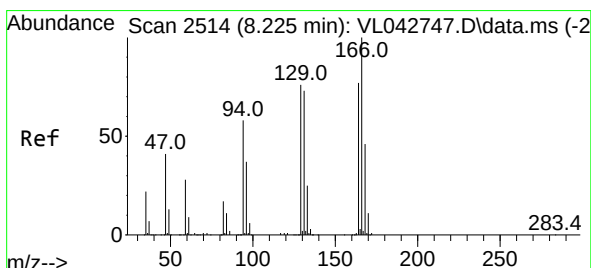
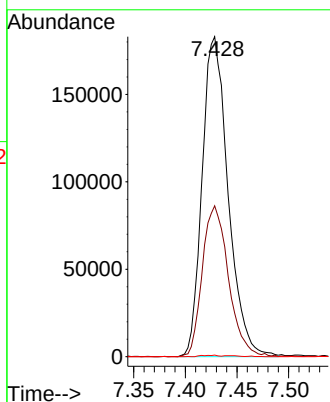
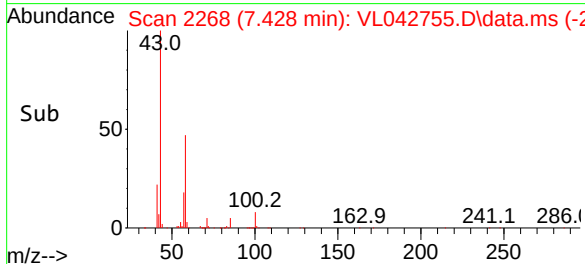
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion: 43 Resp: 320740
Ion Ratio Lower Upper
43 100
58 47.8 38.0 57.0
98 0.5 0.2 0.4

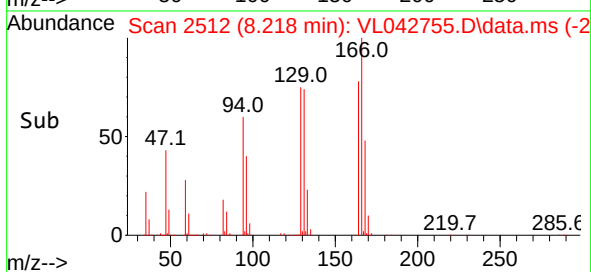
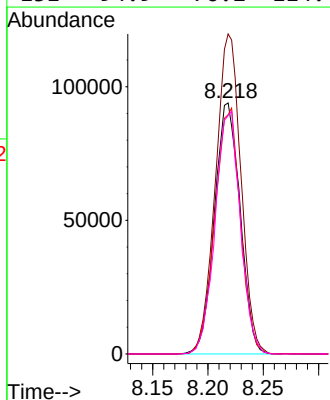
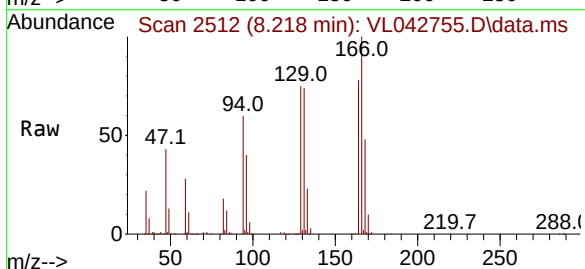
Manual Integrations
APPROVED

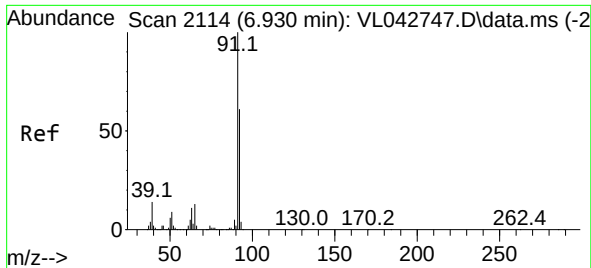
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Tetrachloroethene
Concen: 9.163 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:164 Resp: 151810
Ion Ratio Lower Upper
164 100
166 127.4 104.0 156.0
129 95.3 79.2 118.8
131 94.9 76.2 114.4





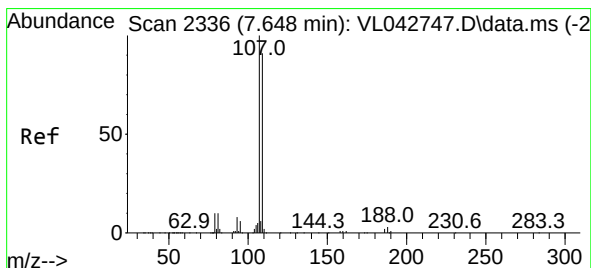
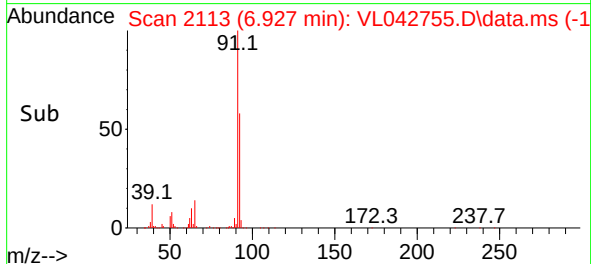
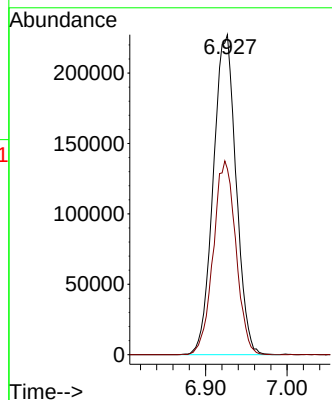
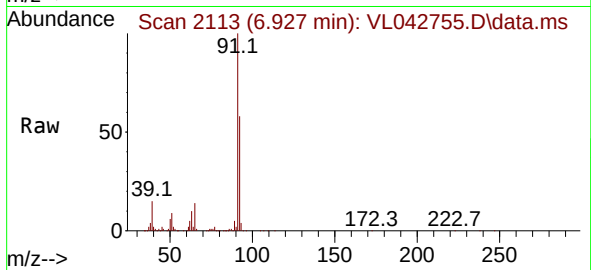
#53
Toluene
Concen: 10.294 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 441829
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0

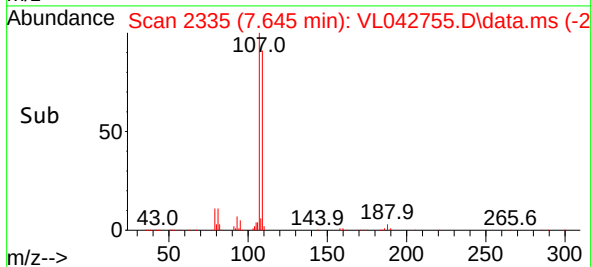
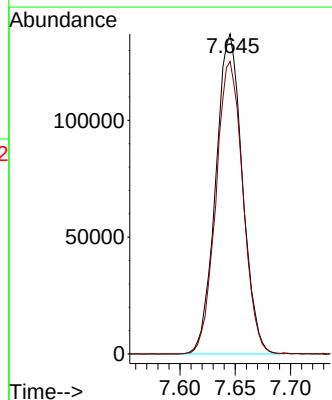
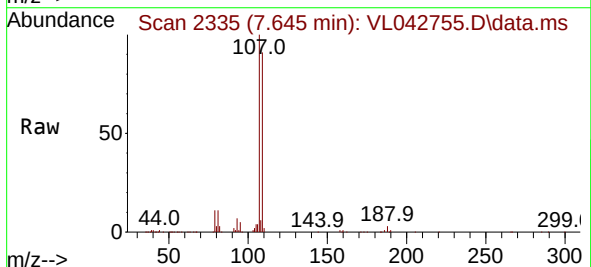
Manual Integrations
APPROVED

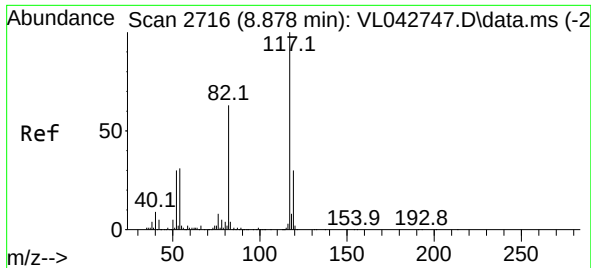
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 10.331 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:107 Resp: 229563
Ion Ratio Lower Upper
107 100
109 91.3 72.7 109.1





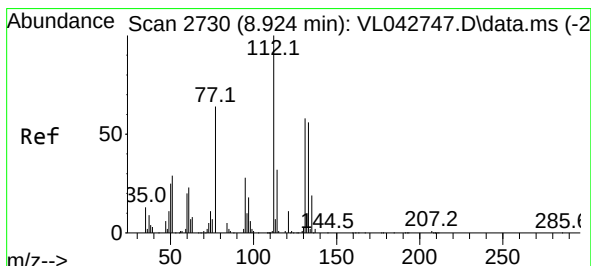
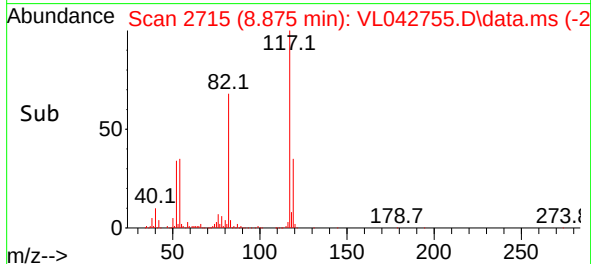
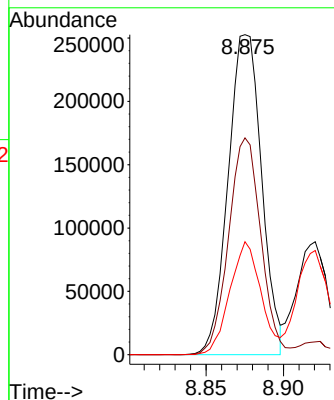
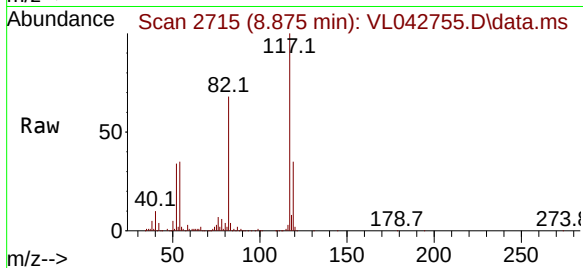
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion:117 Resp: 380539
Ion Ratio Lower Upper
117 100
82 68.9 53.3 79.9
119 33.0 25.8 38.6

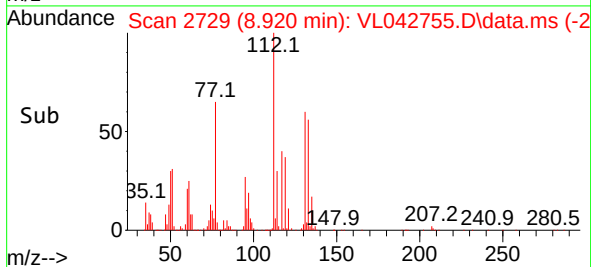
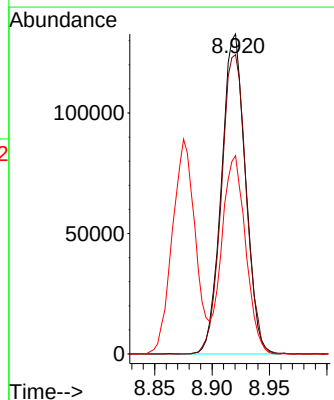
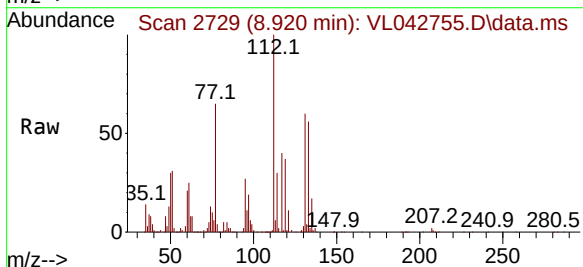
Manual Integrations
APPROVED

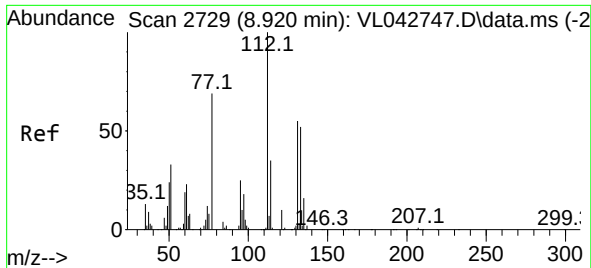
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.759 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

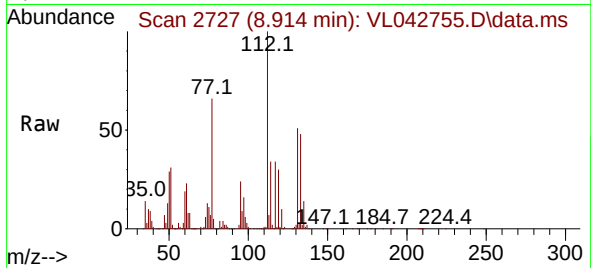
Tgt Ion:131 Resp: 193089
Ion Ratio Lower Upper
131 100
133 96.6 76.8 115.2
119 61.2 49.7 74.5





#57
Chlorobenzene
Concen: 9.623 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

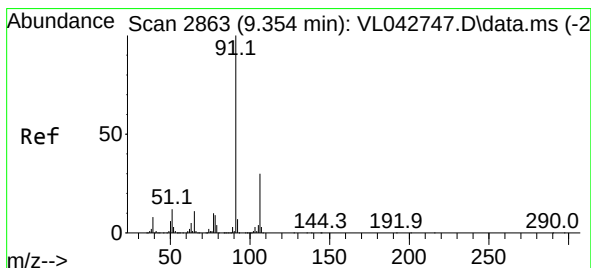
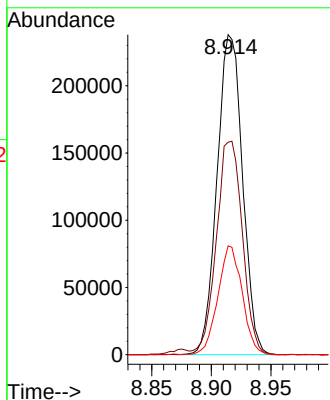
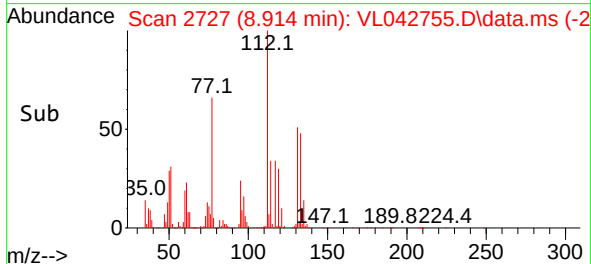
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion:112 Resp: 354412
Ion Ratio Lower Upper
112 100
77 66.4 56.4 84.6
114 34.0 31.2 38.2

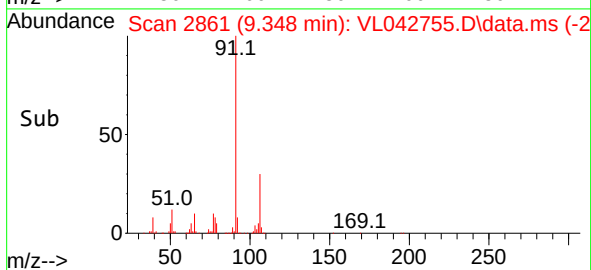
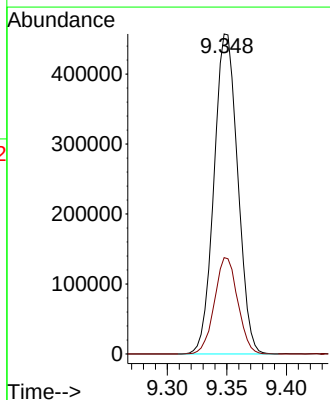
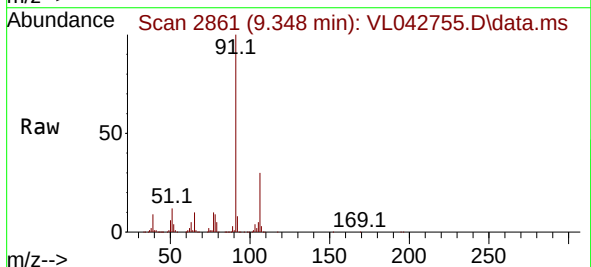
Manual Integrations
APPROVED

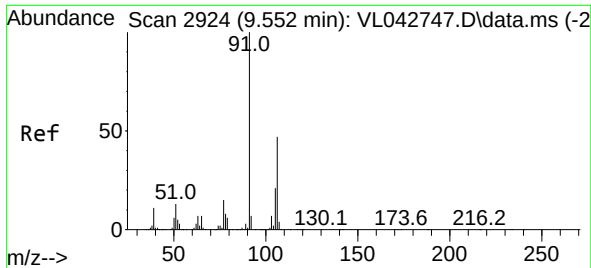
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 10.504 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 631247
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





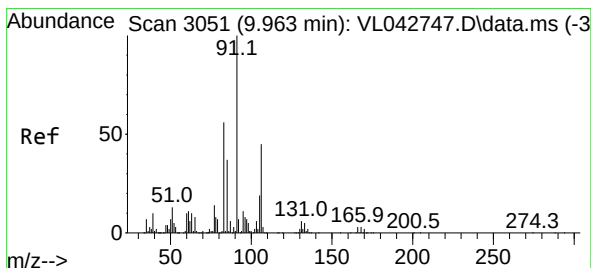
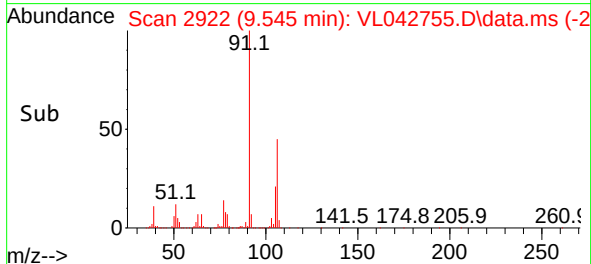
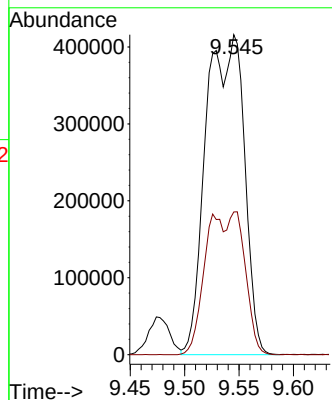
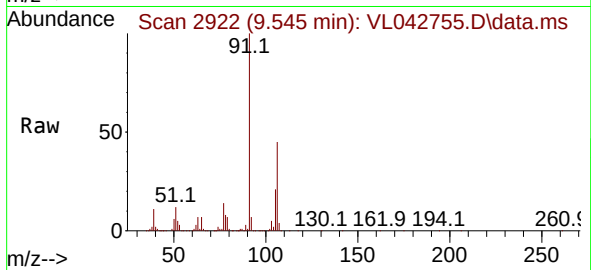
#59
m/p-Xylene
Concen: 21.160 ppbv m
RT: 9.545 min Scan# 2924
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 1016249
Ion Ratio Lower Upper
91 100
106 45.4 37.4 56.2

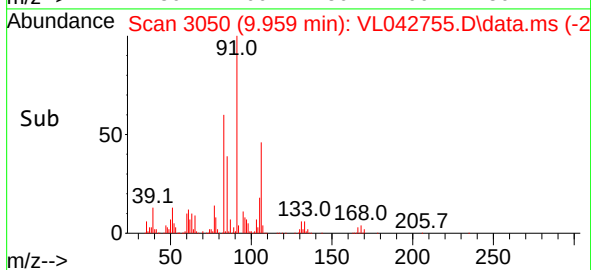
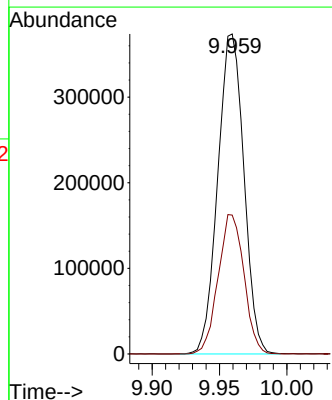
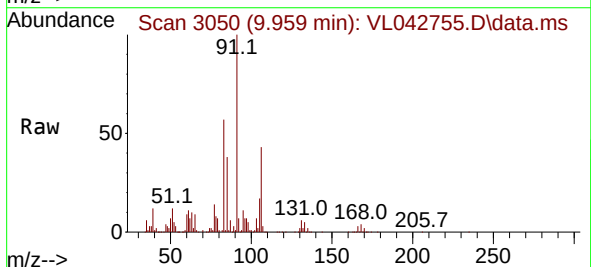
Manual Integrations
APPROVED

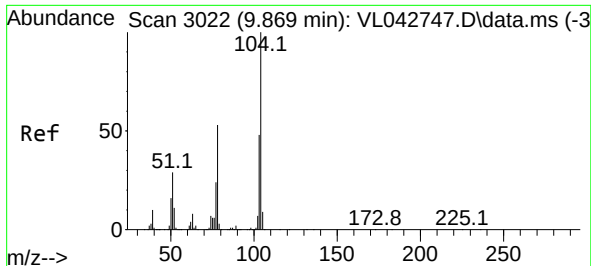
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 10.499 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 503849
Ion Ratio Lower Upper
91 100
106 43.1 22.0 66.0





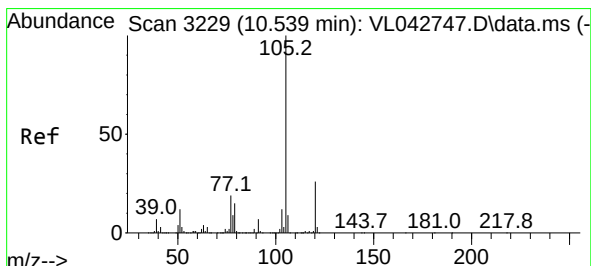
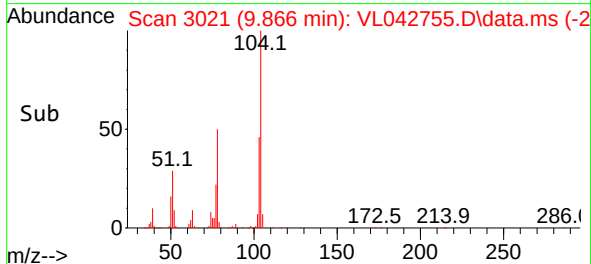
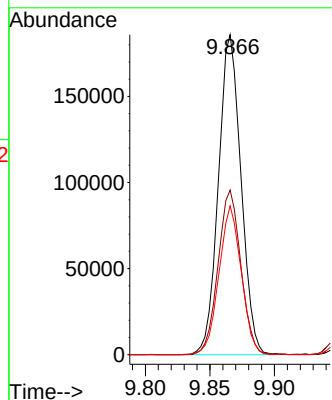
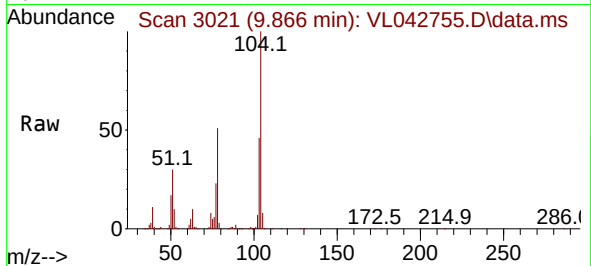
#61
Styrene
Concen: 11.185 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion:104 Resp: 225799
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 46.0 37.5 56.3

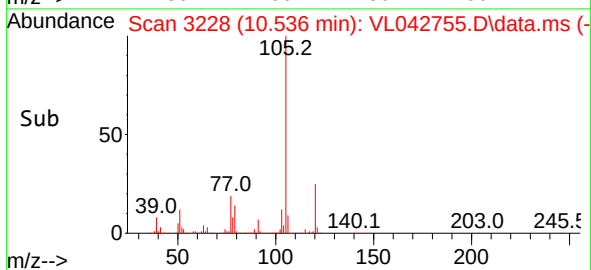
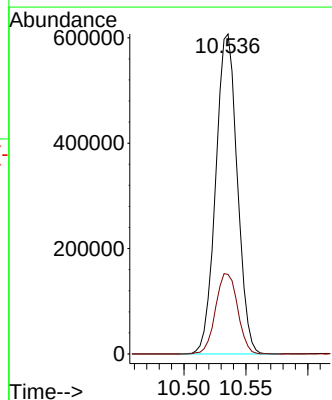
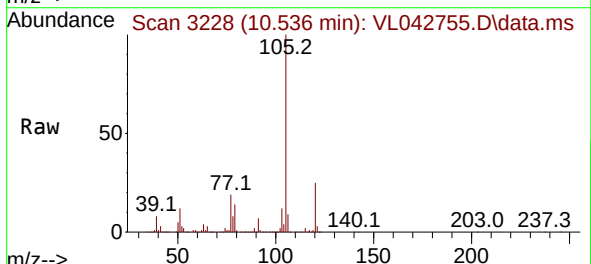
Manual Integrations
APPROVED

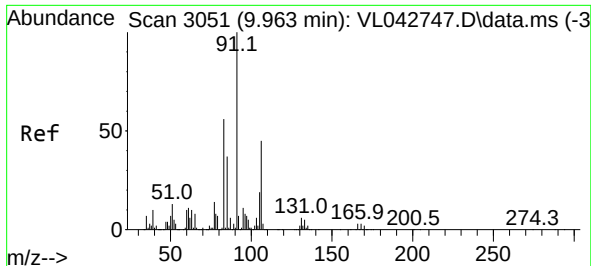
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 10.398 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

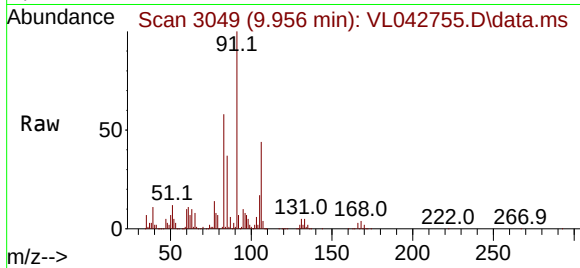
Tgt Ion:105 Resp: 736044
Ion Ratio Lower Upper
105 100
120 25.7 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 9.340 ppbv
RT: 9.956 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

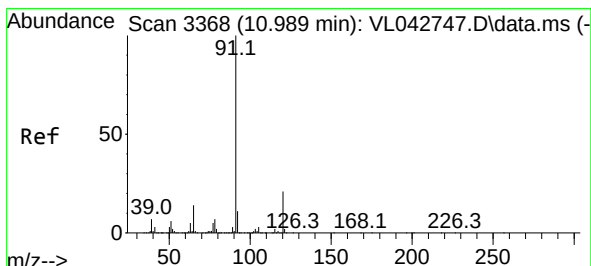
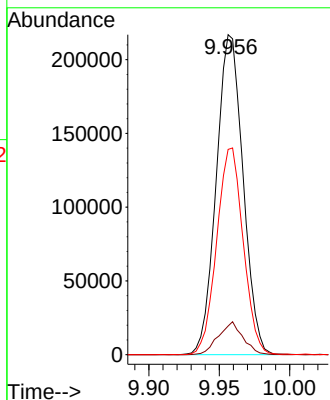
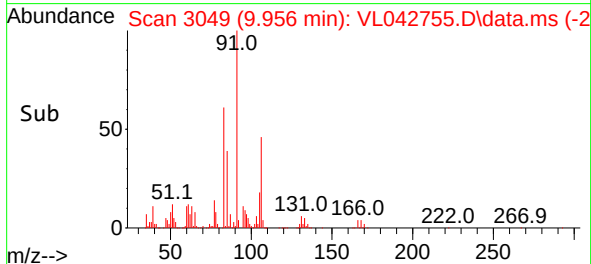
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



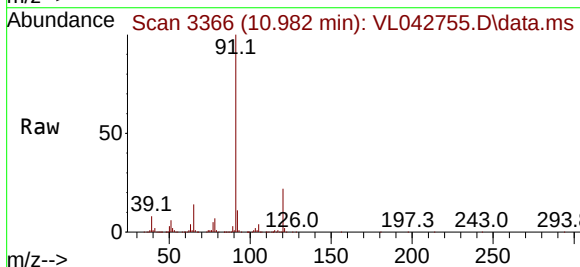
Tgt Ion: 83 Resp: 287775
Ion Ratio Lower Upper
83 100
131 9.4 5.0 15.0
85 64.0 32.6 97.7

Manual Integrations
APPROVED

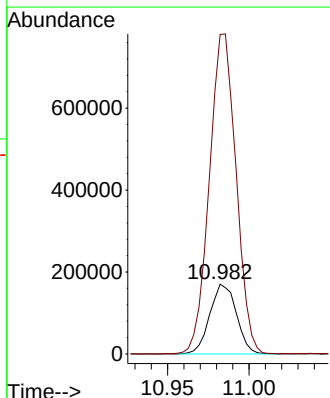
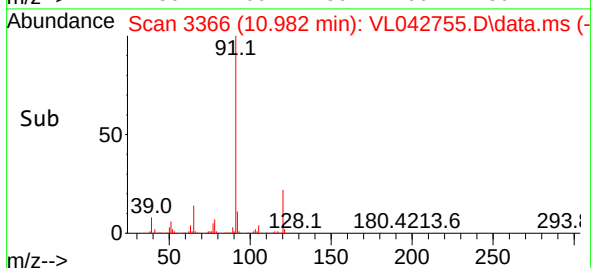
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

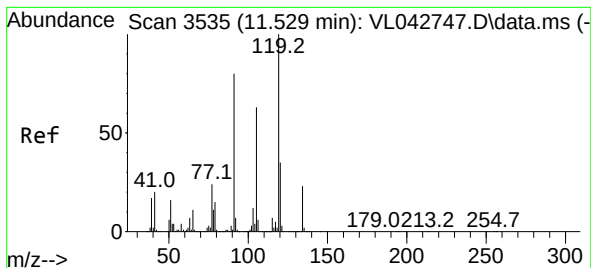


#64
n-propylbenzene
Concen: 10.460 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



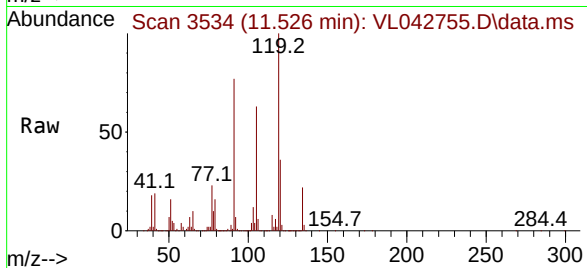
Tgt Ion:120 Resp: 193034
Ion Ratio Lower Upper
120 100
91 461.7 372.7 559.1





#65
tert-Butylbenzene
Concen: 10.512 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

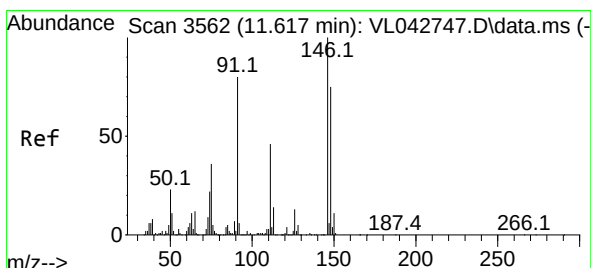
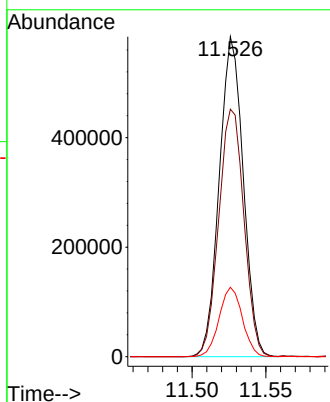
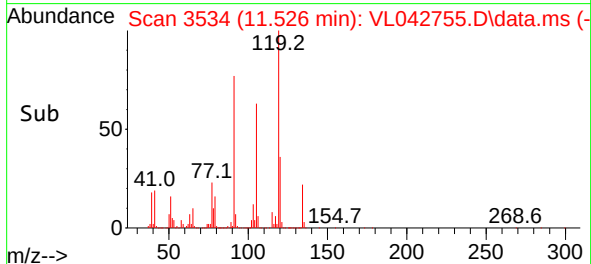
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



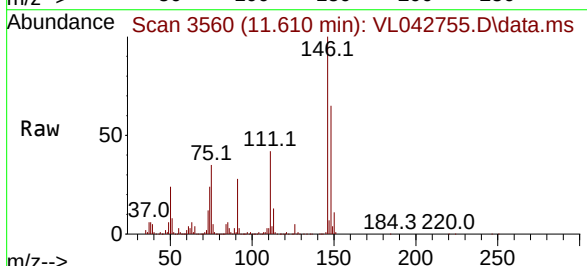
Tgt Ion:119 Resp: 660960
Ion Ratio Lower Upper
119 100
91 81.2 64.0 96.0
134 21.1 17.3 25.9

Manual Integrations
APPROVED

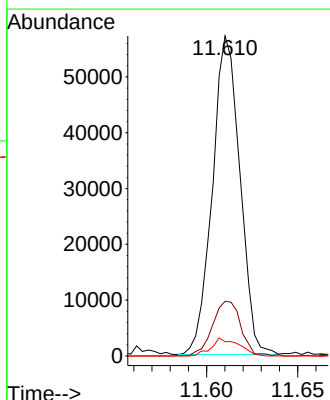
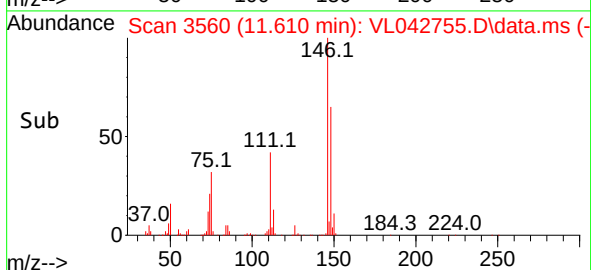
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

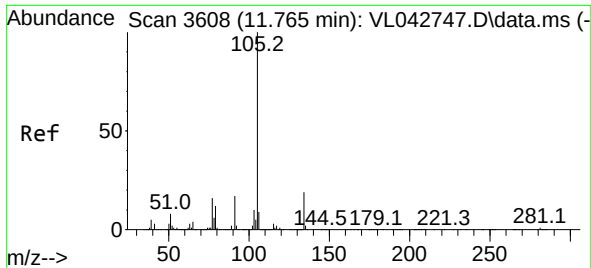


#66
Benzyl Chloride
Concen: 11.634 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



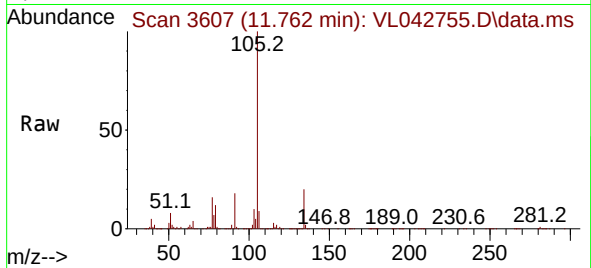
Tgt Ion: 91 Resp: 60055
Ion Ratio Lower Upper
91 100
126 17.7 14.4 21.6
128 5.6 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 10.221 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

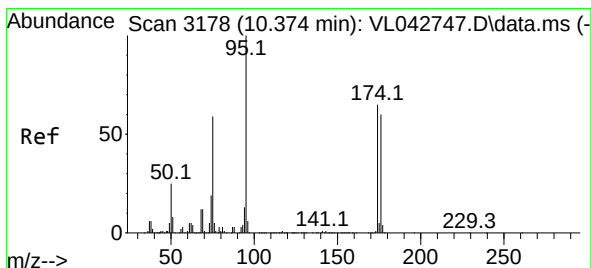
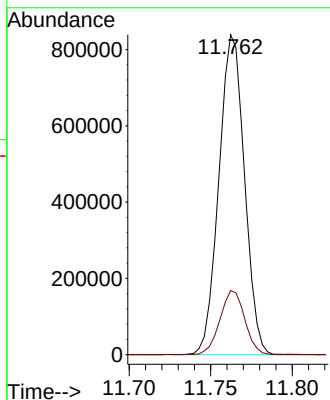
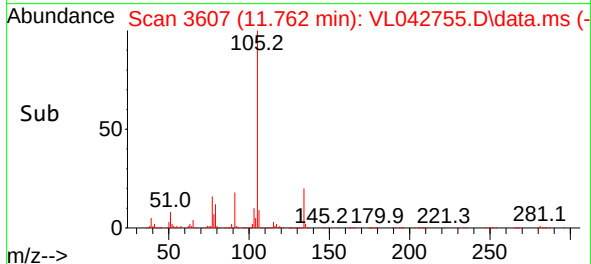
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



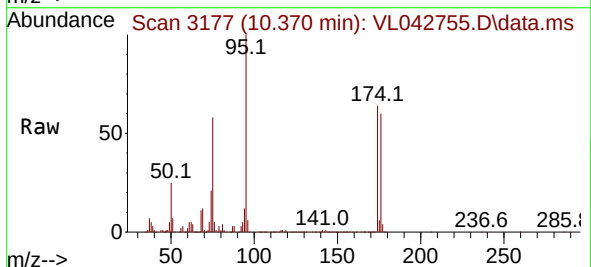
Tgt Ion:105 Resp: 914040
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.5 23.3

Manual Integrations
 APPROVED

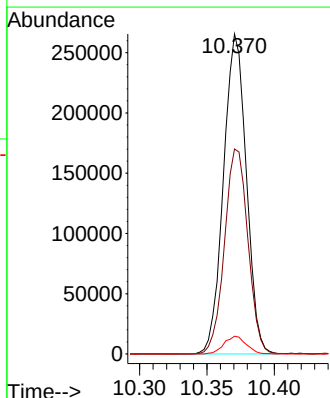
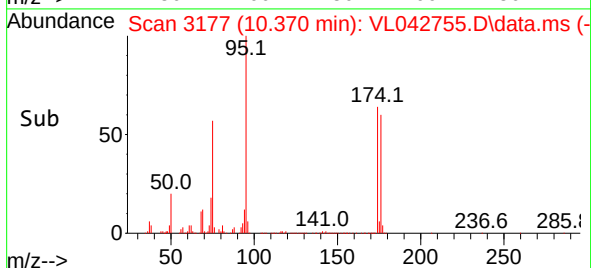
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

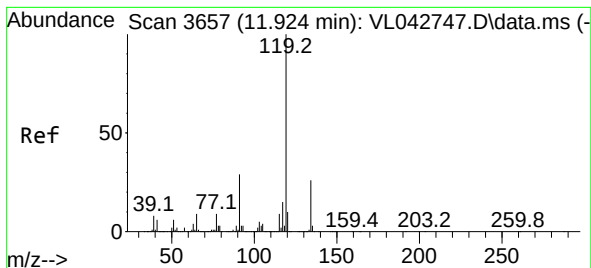


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.397 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



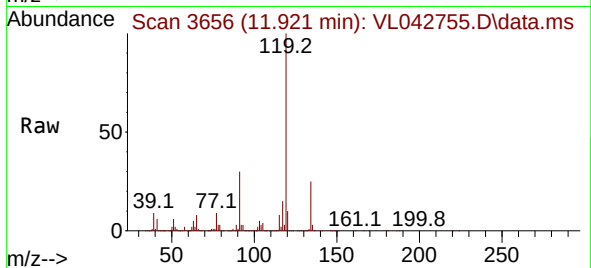
Tgt Ion: 95 Resp: 313324
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.6
 175 5.4 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 10.677 ppbv
 RT: 11.921 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

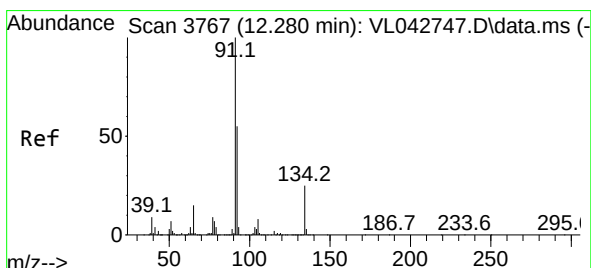
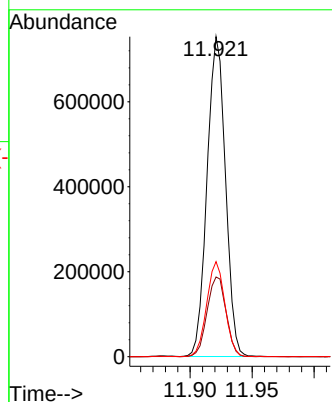
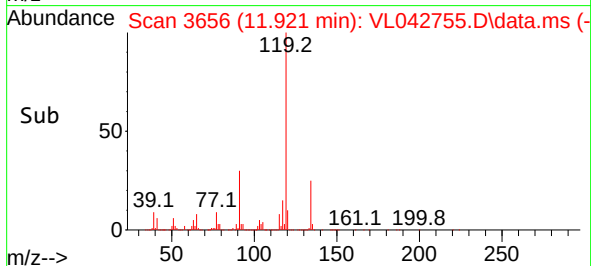
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



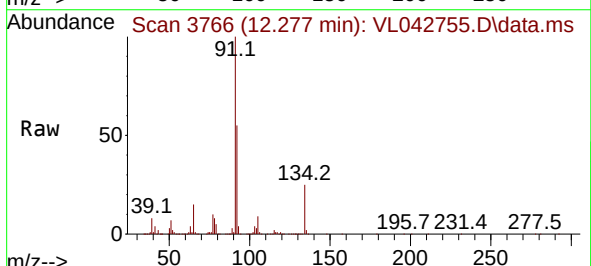
Tgt Ion:119 Resp: 77860
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.6 31.0
 91 29.5 23.2 34.8

Manual Integrations
 APPROVED

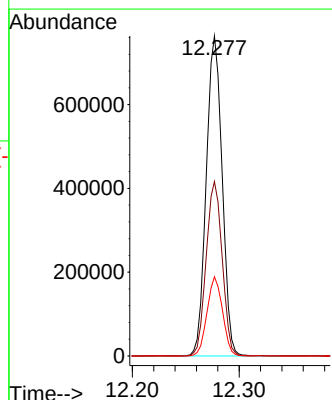
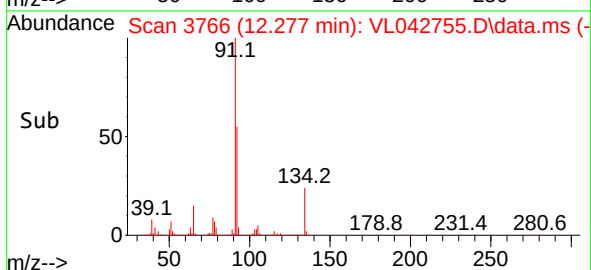
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

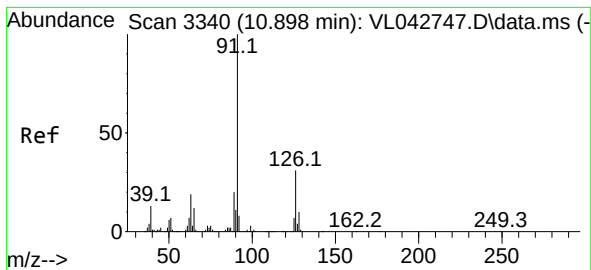


#70
 n-Butylbenzene
 Concen: 11.197 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



Tgt Ion: 91 Resp: 788734
 Ion Ratio Lower Upper
 91 100
 92 55.0 43.4 65.2
 134 24.1 19.6 29.4





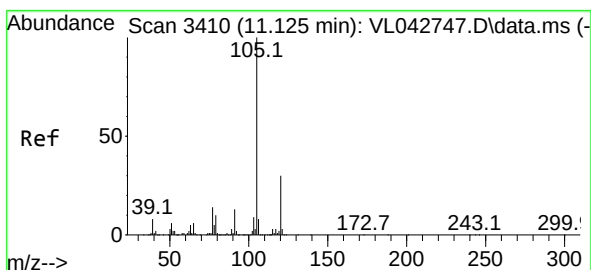
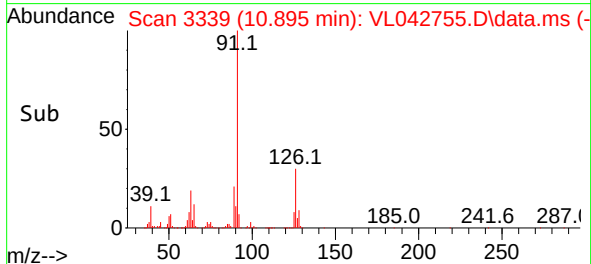
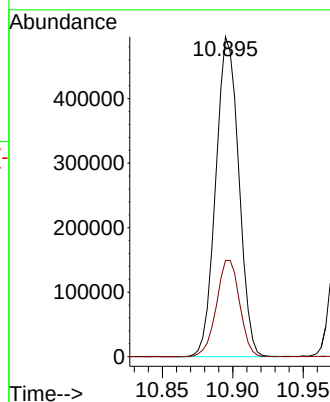
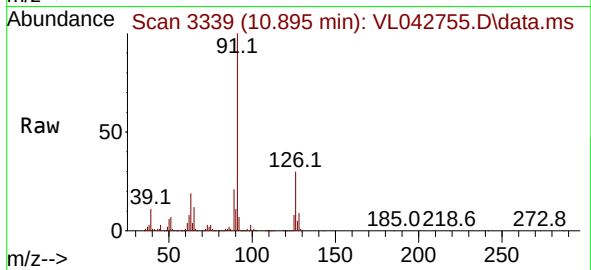
#71
2-Chlorotoluene
Concen: 10.376 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 56319
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2

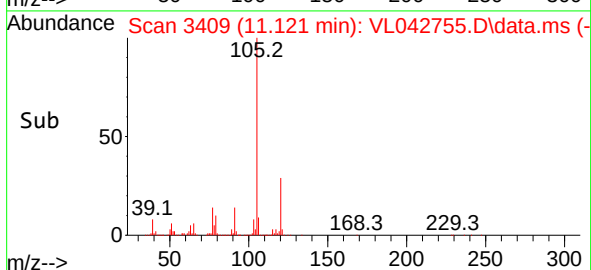
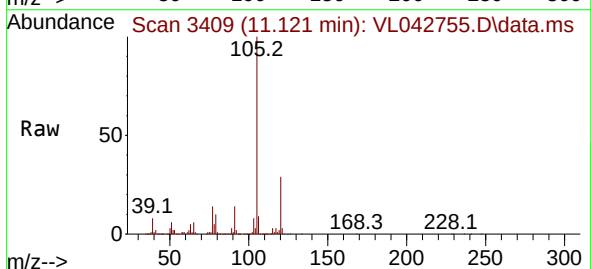
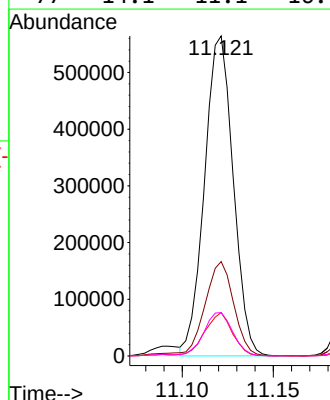
Manual Integrations
APPROVED

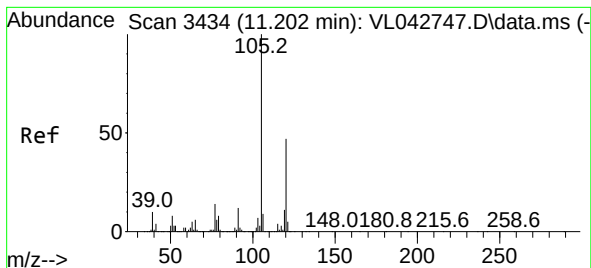
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 10.772 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 617355
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 13.4 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.951 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion:105 Resp: 516738

Ion Ratio Lower Upper

105 100

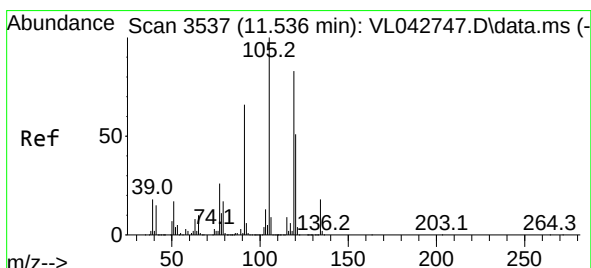
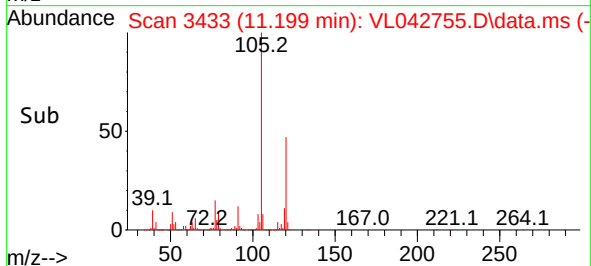
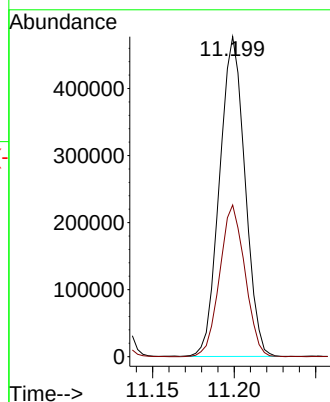
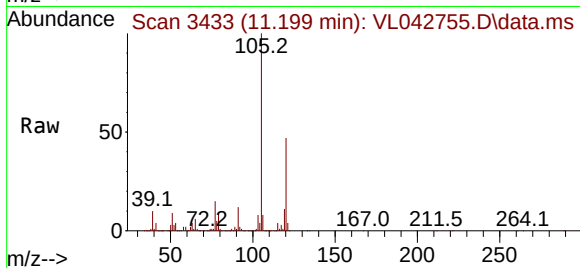
120 47.5 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.017 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 567186

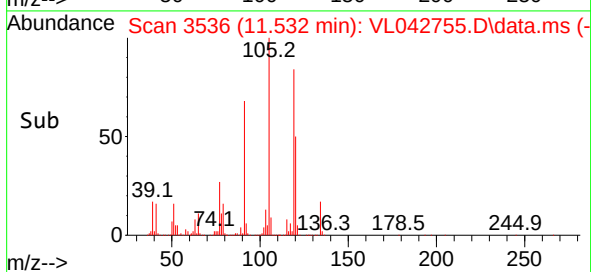
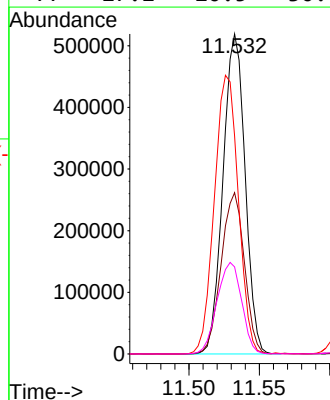
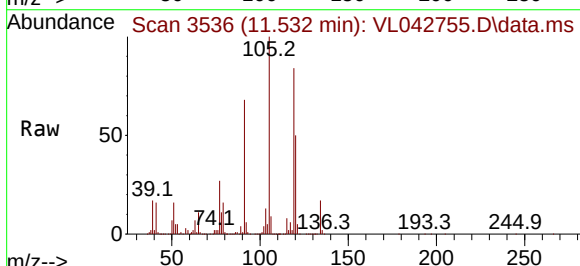
Ion Ratio Lower Upper

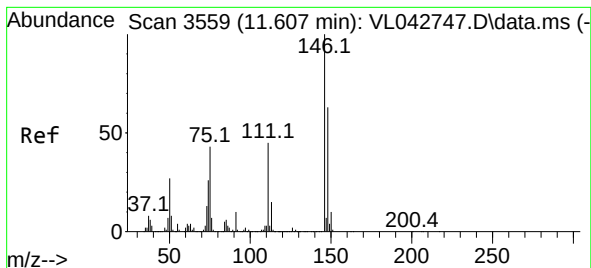
105 100

120 50.4 40.8 61.2

91 68.1 53.0 79.4

77 27.2 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 10.165 ppbv

RT: 11.604 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion:146 Resp: 36685

Ion Ratio Lower Upper

146 100

111 44.3 22.7 68.0

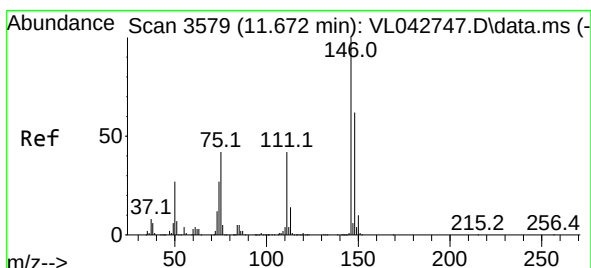
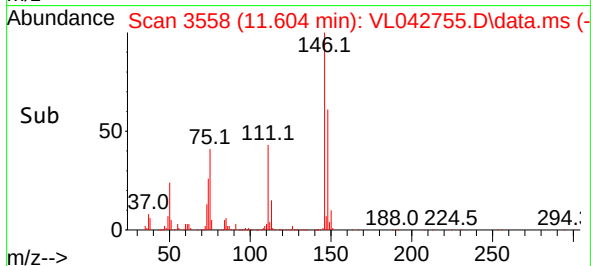
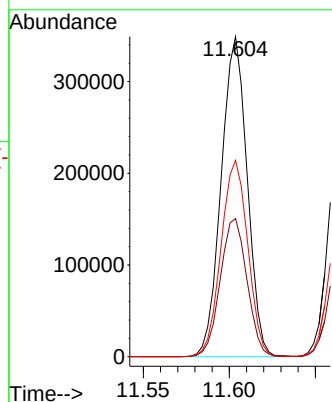
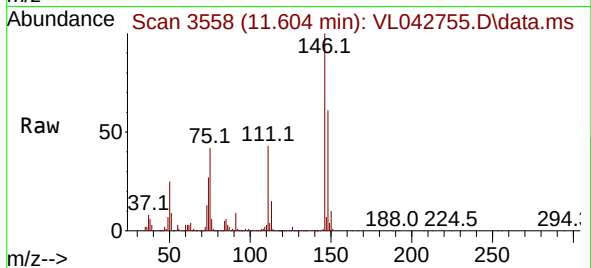
148 63.1 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 10.333 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

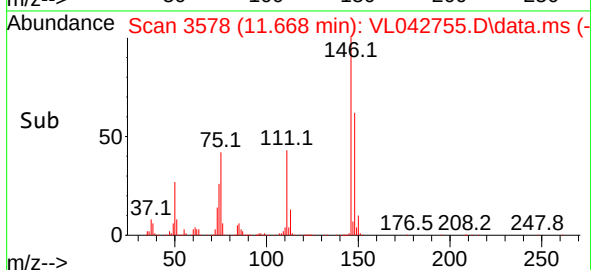
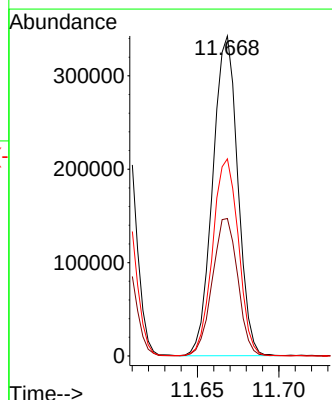
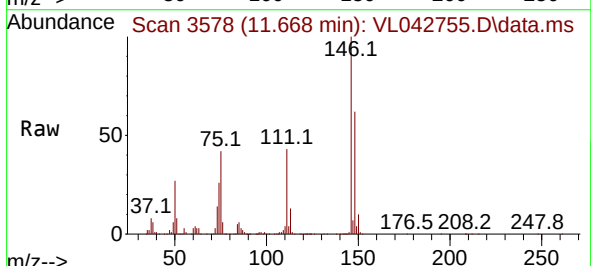
Tgt Ion:146 Resp: 364937

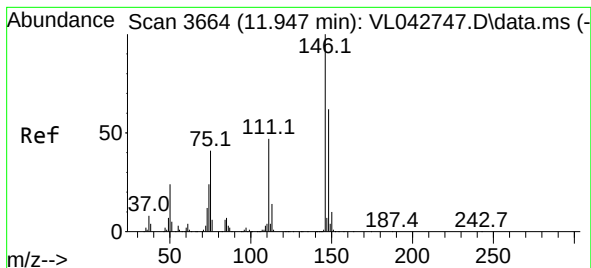
Ion Ratio Lower Upper

146 100

111 43.9 21.4 64.2

148 63.8 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.839 ppbv

RT: 11.943 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

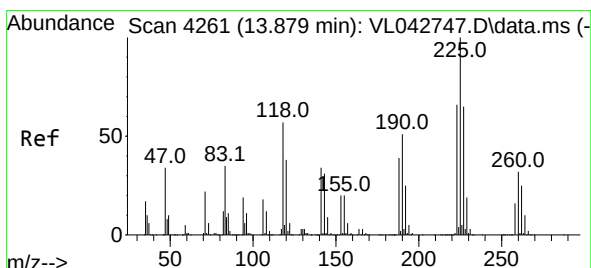
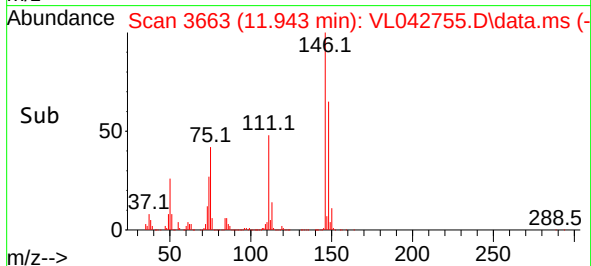
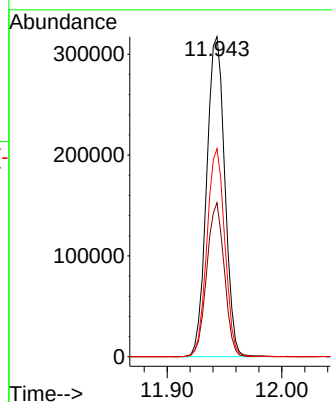
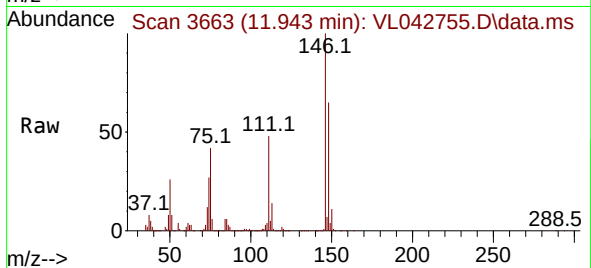
Tgt Ion:146 Resp: 348999

Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.7	71.1
148	63.8	32.6	97.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.091 ppbv

RT: 13.876 min Scan# 4260

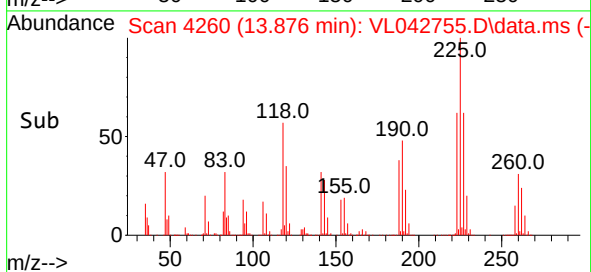
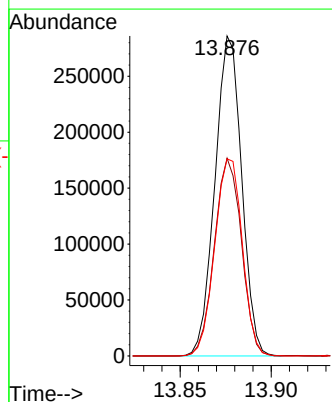
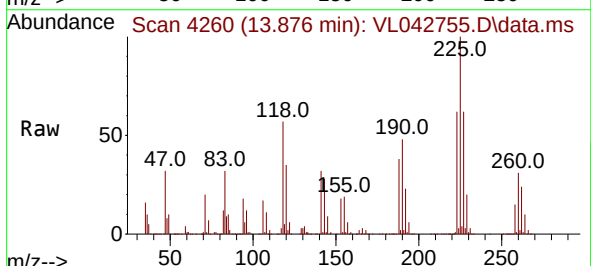
Delta R.T. -0.003 min

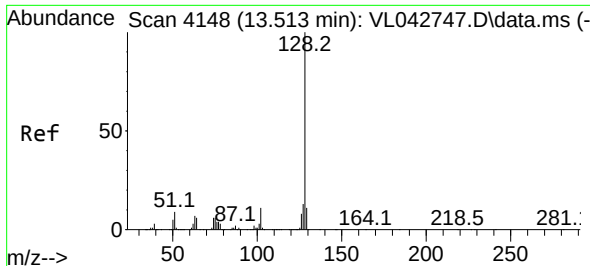
Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion:225 Resp: 291861

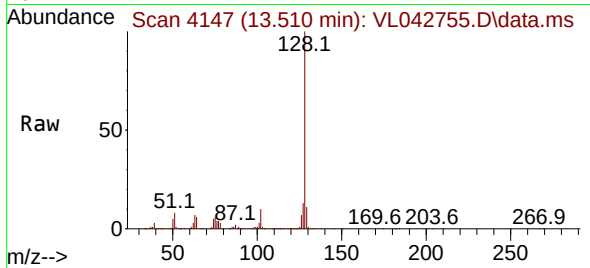
Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.7	76.1
227	63.5	50.5	75.7





#79
Naphthalene
Concen: 10.342 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

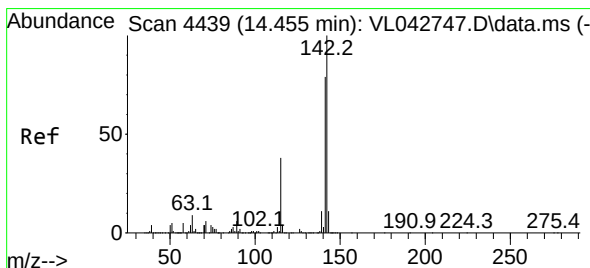
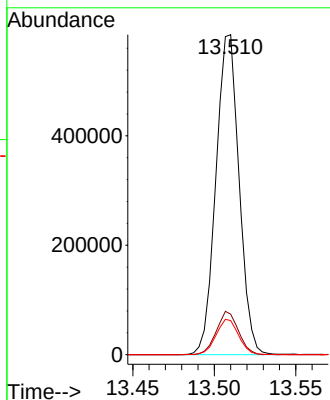
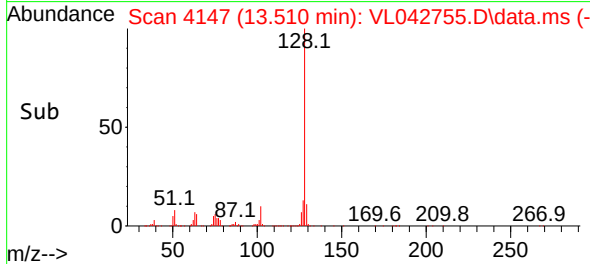
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



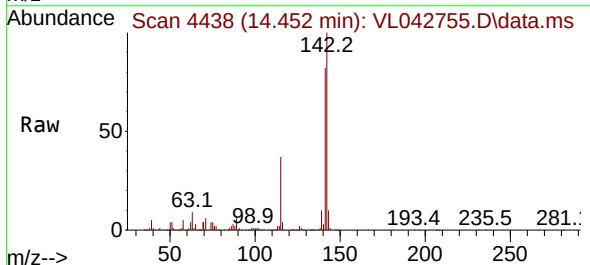
Tgt Ion:128 Resp: 57856
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.6 8.6 13.0

Manual Integrations
APPROVED

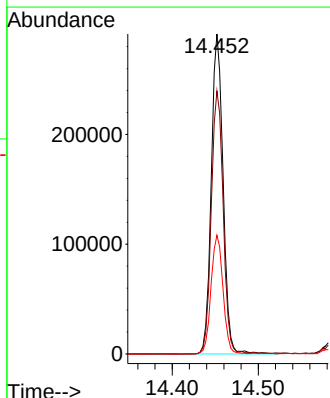
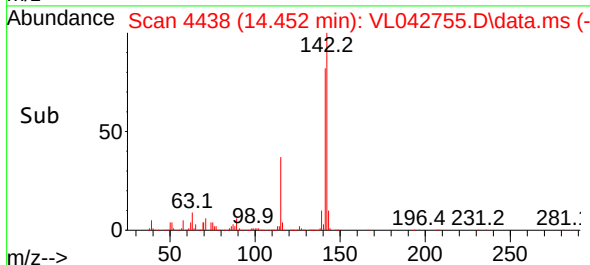
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

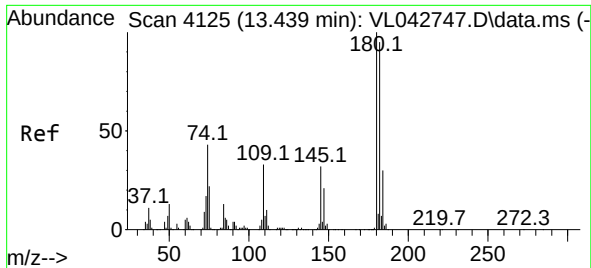


#80
Naphthalene,2-methyl-
Concen: 9.951 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



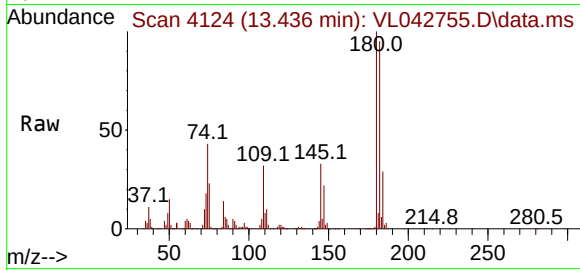
Tgt Ion:142 Resp: 277798
Ion Ratio Lower Upper
142 100
141 83.6 65.8 98.8
115 38.2 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.181 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

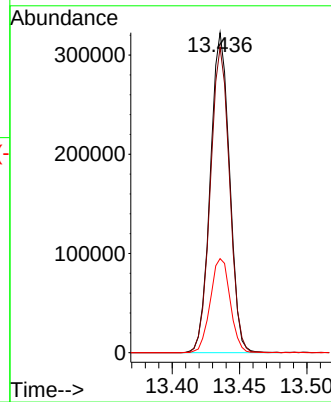
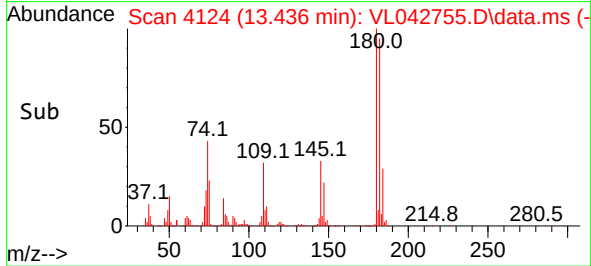
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



Tgt Ion:180 Resp: 31989
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.2
 184 30.5 24.8 37.2

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 : 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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2727</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>07/31/2025 08:37</u>
Lab File ID:	<u>VL042788.D</u>	Init. Calib. Date(s):	<u>07/23/2025 07/23/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:58 13:00</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorodifluoromethane	0.592	0.627		5.91	30
Dichlorodifluoromethane	1.322	1.259		-4.77	30
Ethanol	0.083	0.052		-37.35	30
Chloromethane	0.535	0.500		-6.54	30
Vinyl Chloride	0.528	0.464		-12.12	30
Ethyl Acetate	3.056	3.271		7.03	30
Bromomethane	0.204	0.201		-1.47	30
Chloroethane	0.204	0.187		-8.33	30
Tetrahydrofuran	0.360	0.413		14.72	30
Trichlorofluoromethane	1.363	1.244		-8.73	30
1,1,2-Trichlorotrifluoroethane	1.036	0.994		-4.05	30
Dichlorotetrafluoroethane	1.087	1.041		-4.23	30
Bromoethene	0.367	0.353		-3.82	30
Propene	0.626	0.681		8.79	30
tert-Butyl alcohol	1.245	1.150		-7.63	30
Heptane	1.688	1.848		9.48	30
Isopropyl Alcohol	0.734	0.677		-7.77	30
1,1-Dichloroethene	0.468	0.430		-8.12	30
Acetone	1.381	1.094		-20.78	30
Carbon Disulfide	1.148	1.189		3.57	30
Methyl tert-Butyl Ether	0.633	0.632		-0.16	30
Methylene Chloride	0.435	0.373		-14.25	30
trans-1,2-Dichloroethene	0.503	0.484		-3.78	30
Vinyl Acetate	1.674	2.050		22.46	30
1,1-Dichloroethane	1.033	0.981		-5.03	30
Cyclohexane	1.137	1.182		3.96	30
2-Butanone	0.708	0.760		7.34	30
Carbon Tetrachloride	0.743	0.793		6.73	30
cis-1,2-Dichloroethene	1.378	1.412		2.47	30
Chloroform	2.072	2.165		4.49	30
1,1,1-Trichloroethane	2.158	2.126		-1.48	30
2,2,4-Trimethylpentane	1.545	1.721		11.39	30
Benzene	0.948	1.000		5.49	30
1,2-Dichloroethane	0.571	0.605		5.95	30
Trichloroethene	0.455	0.455		0	30
1,2-Dichloropropane	0.350	0.367		4.86	30
Bromodichloromethane	0.744	0.827		11.16	30
4-Methyl-2-Pentanone	0.912	1.013		11.07	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2727</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>07/31/2025 08:37</u>
Lab File ID:	<u>VL042788.D</u>	Init. Calib. Date(s):	<u>07/23/2025 07/23/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:58 13:00</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Toluene	1.018	1.124		10.41	30
t-1,3-Dichloropropene	0.378	0.430		13.76	30
cis-1,3-Dichloropropene	0.479	0.555		15.87	30
1,1,2-Trichloroethane	0.373	0.396		6.17	30
2-Hexanone	0.690	0.812		17.68	30
Dibromochloromethane	0.592	0.672		13.51	30
1,2-Dibromoethane	0.527	0.584		10.82	30
Tetrachloroethene	0.393	0.366		-6.87	30
Chlorobenzene	0.968	1.012		4.55	30
Ethyl Benzene	1.579	1.780		12.73	30
m/p-Xylene	1.262	1.455		15.29	30
o-Xylene	1.261	1.439		14.12	30
Styrene	0.531	0.623		17.33	30
Bromoform	0.516	0.596		15.5	30
Isopropylbenzene	1.860	2.071		11.34	30
1,1,2,2-Tetrachloroethane	0.810	0.843		4.07	30
2-Chlorotoluene	1.426	1.598		12.06	30
1,3,5-Trimethylbenzene	1.240	1.462		17.9	30
1,2,4-Trimethylbenzene	1.353	1.627		20.25	30
1,3-Dichlorobenzene	0.948	1.048		10.55	30
1,4-Dichlorobenzene	0.928	1.040		12.07	30
1,2-Dichlorobenzene	0.932	1.008		8.15	30
1,2,4-Trichlorobenzene	0.635	0.910		43.31	30
Hexachloro-1,3-Butadiene	0.844	0.816		-3.32	30
1,3-Butadiene	0.589	0.555		-5.77	30
Naphthalene	0.958	1.624		69.52	30
4-Ethyltoluene	1.506	1.769		17.46	30
1-Bromo-4-Fluorobenzene	0.792	0.815		2.9	30
Hexane	1.341	1.394		3.95	30
Allyl Chloride	0.851	0.845		-0.7	30
Benzyl Chloride	0.136	0.188		38.24	30
1,4-Dioxane	163.065	163.857		0.49	30
Methyl Methacrylate	0.337	0.385		14.24	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\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 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 08/01/2025
 Supervised By : Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:12:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 01:12:06 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	2.794	49	139439	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	391811	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	345903	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 282020 10.295 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	175602	9.525	ppbv	99
3) Chlorodifluoromethane	1.479	51	245813	10.235	ppbv	98
4) Chloromethane	1.534	50	69667	9.341	ppbv	96
5) Vinyl Chloride	1.583	62	64707	8.781	ppbv	94
6) Bromomethane	1.670	94	28024	9.837	ppbv	96
7) Chloroethane	1.706	64	26081	9.160	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	145116	9.571	ppbv	98
9) Propene	1.486	41	94980	10.882	ppbv	100
10) Heptane	4.991	43	257717	10.950	ppbv	96
11) Trichlorofluoromethane	1.881	101	173476	9.128	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	138636	9.600	ppbv	97
13) Ethanol	1.725	45	7183	10.150	ppbv	95
14) Bromoethene	1.784	108	49283	9.639	ppbv	98
15) Acetone	1.839	43	152576	7.924	ppbv	100
16) 1,3-Butadiene	1.612	39	77405	9.425	ppbv	99
17) tert-Butyl alcohol	2.043	59	160407	9.237	ppbv	99
18) 1,1-Dichloroethene	2.039	96	60001	9.195	ppbv	92
19) Isopropyl Alcohol	1.891	45	94435	9.229	ppbv	95
20) Methylene Chloride	2.065	84	51973	8.566	ppbv	95
21) Allyl Chloride	2.101	41	117837	9.930	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	67488	9.614	ppbv	95
23) Vinyl Acetate	2.467	43	285868	12.247	ppbv	99
24) 1,1-Dichloroethane	2.415	63	136815	9.496	ppbv	100
25) Ethyl Acetate	2.842	43	456109	10.702	ppbv	100
26) Hexane	2.832	57	194417	10.399	ppbv	98
27) Carbon Disulfide	2.156	76	165760	10.356	ppbv	96
28) Methyl tert-Butyl Ether	2.447	73	88166	9.982	ppbv	98
29) Chloroform	2.855	83	301928	10.451	ppbv	95
30) Cyclohexane	3.865	84	164864	10.398	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	196928	10.250	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	296432	9.850	ppbv	100
34) 2-Butanone	2.561	43	297678	10.726	ppbv	98
35) Carbon Tetrachloride	3.771	117	310581	10.672	ppbv	98
36) Benzene	3.664	78	391679	10.548	ppbv	99
37) 1,2-Dichloroethane	3.227	62	236929	10.592	ppbv	99
38) Trichloroethene	4.561	130	178226	9.991	ppbv	97
39) 1,2-Dichloropropane	4.324	63	143986	10.505	ppbv	95
40) 1,4-Dioxane	4.596	88	64201	10.049	ppbv #	94
41) Tetrahydrofuran	3.059	42	161670	11.447	ppbv	97
42) Bromodichloromethane	4.499	83	324091	11.125	ppbv	100
43) Methyl Methacrylate	4.891	69	150704	11.418	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	674333	11.142	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	168632	11.393	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 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 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:12:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

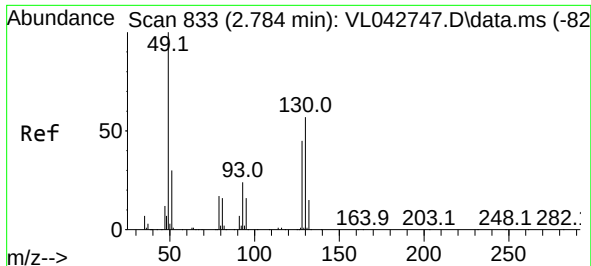
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 11:10:30 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

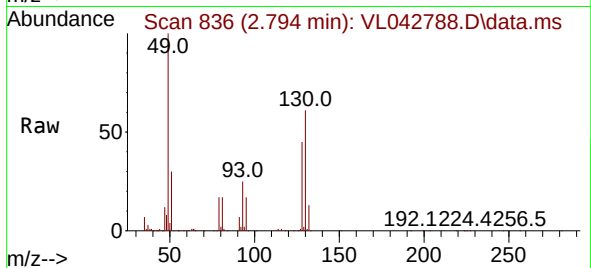
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	217364	11.589	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	155145	10.618	ppbv	97
48) Dibromochloromethane	7.399	129	263177	11.346	ppbv	98
49) Bromoform	9.493	173	233626	11.551	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	396864	11.101	ppbv	100
51) 2-Hexanone	7.448	43	318210	11.778	ppbv #	99
52) Tetrachloroethene	8.234	164	143437	9.319	ppbv	98
53) Toluene	6.946	91	440370	11.044	ppbv	99
54) 1,2-Dibromoethane	7.665	107	228691	11.078	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	196819	10.944	ppbv	99
57) Chlorobenzene	8.933	112	349998	10.455	ppbv #	95
58) Ethyl Benzene	9.364	91	615736	11.272	ppbv	99
59) m/p-Xylene	9.561	91	1006369m	23.053	ppbv	
60) o-Xylene	9.972	91	497901	11.414	ppbv	99
61) Styrene	9.882	104	215469	11.742	ppbv	99
62) Isopropylbenzene	10.549	105	716277	11.132	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	291626	10.413	ppbv	99
64) n-propylbenzene	10.998	120	193965	11.563	ppbv	98
65) tert-Butylbenzene	11.539	119	641028	11.215	ppbv	99
66) Benzyl Chloride	11.623	91	65004	13.854	ppbv	98
67) sec-Butylbenzene	11.775	105	905933	11.144	ppbv	100
69) p-Isopropyltoluene	11.931	119	763427	11.517	ppbv	99
70) n-Butylbenzene	12.287	91	779301	12.171	ppbv	99
71) 2-Chlorotoluene	10.908	91	552725	11.203	ppbv	100
72) 4-Ethyltoluene	11.134	105	611893	11.745	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	505734	11.791	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	562952	12.030	ppbv	93
75) 1,3-Dichlorobenzene	11.613	146	362463	11.049	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	359833	11.209	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	348624	10.812	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	282288	9.673	ppbv	98
79) Naphthalene	13.520	128	561584	11.014	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	249243	9.837	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	314832	10.987	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

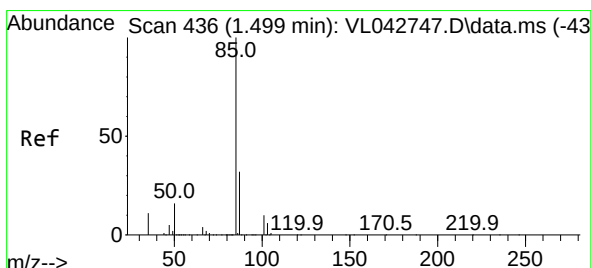
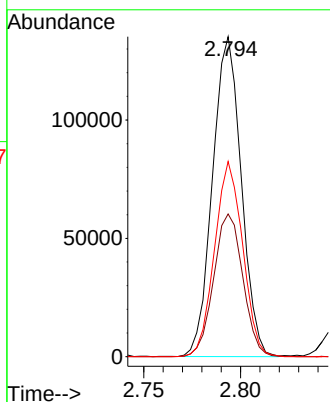
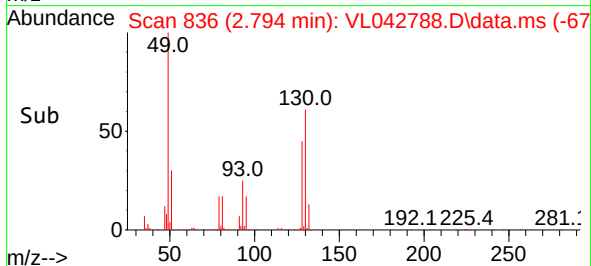
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 49 Resp: 139439
Ion Ratio Lower Upper
49 100
128 45.4 23.6 71.0
130 59.7 30.3 90.8

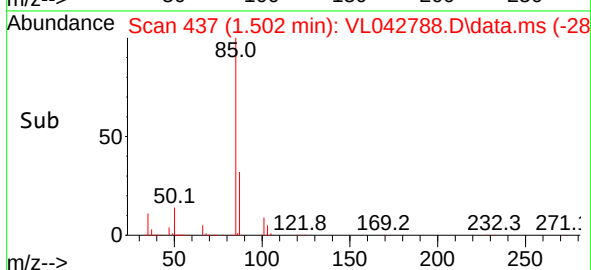
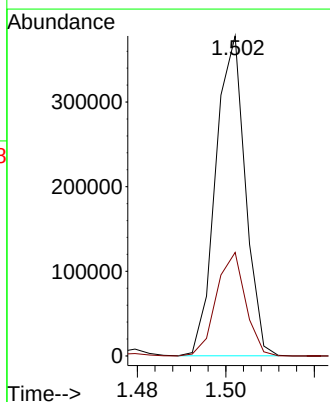
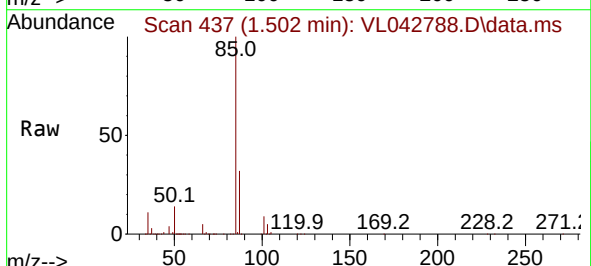
Manual Integrations
APPROVED

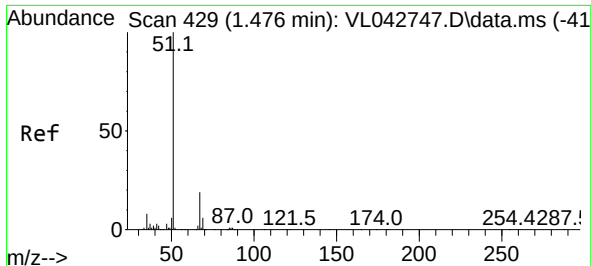
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#2
Dichlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 85 Resp: 175602
Ion Ratio Lower Upper
85 100
87 32.3 25.4 38.2





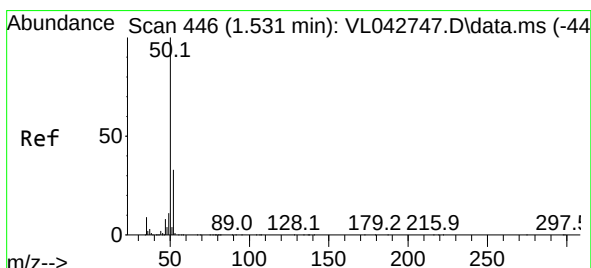
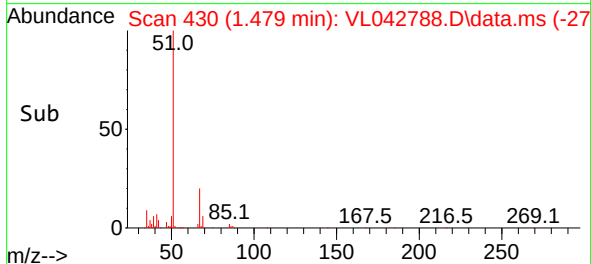
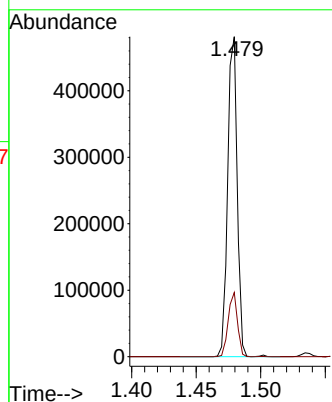
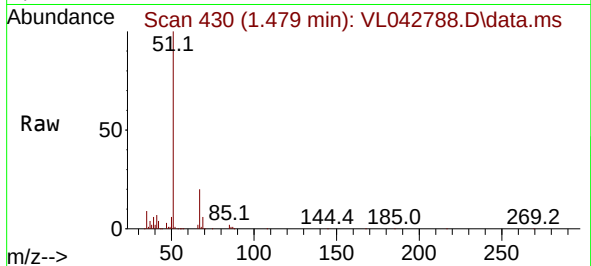
#3
Chlorodifluoromethane
Concen: 10.235 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 24581
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.6

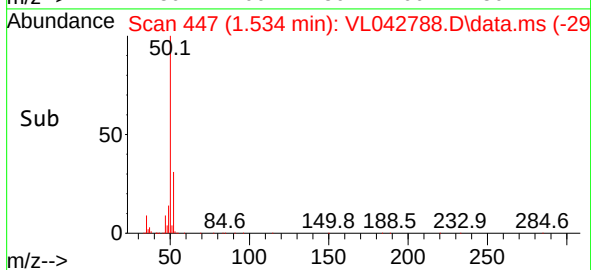
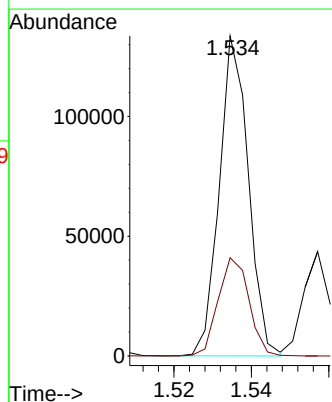
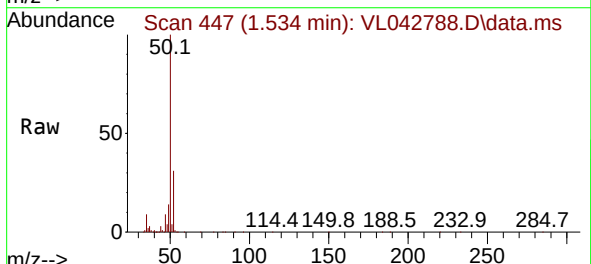
Manual Integrations
APPROVED

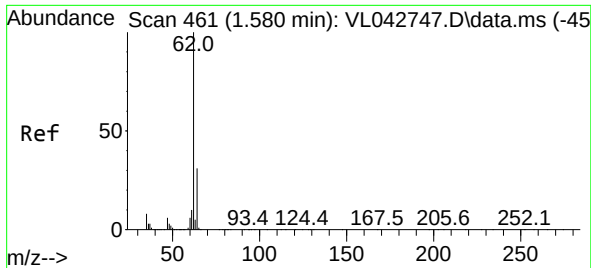
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#4
Chloromethane
Concen: 9.341 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 50 Resp: 69667
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0





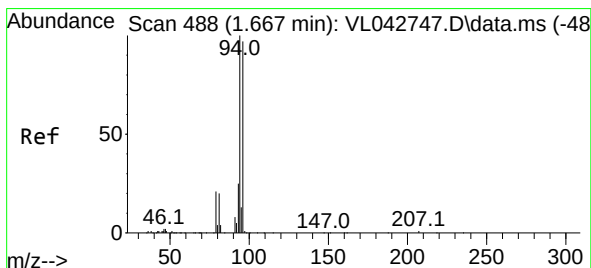
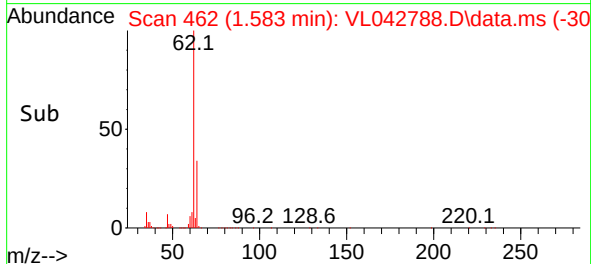
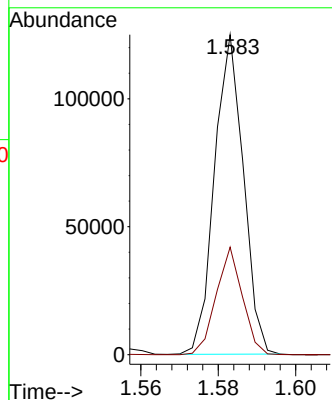
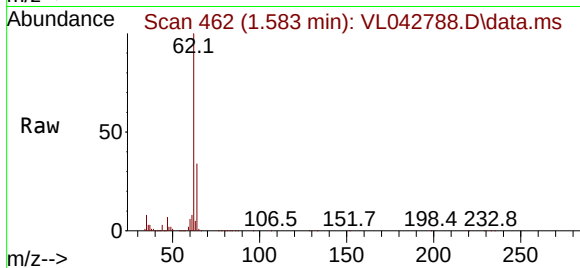
#5
 Vinyl Chloride
 Concen: 8.781 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 6470
 Ion Ratio Lower Upper
 62 100
 64 33.7 24.5 36.7

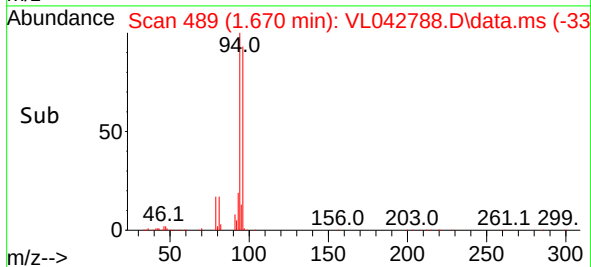
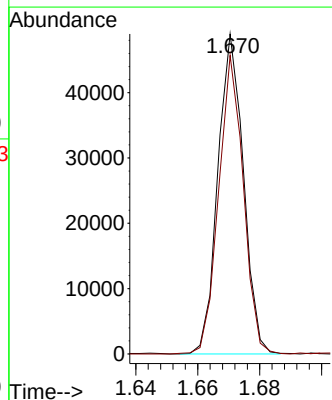
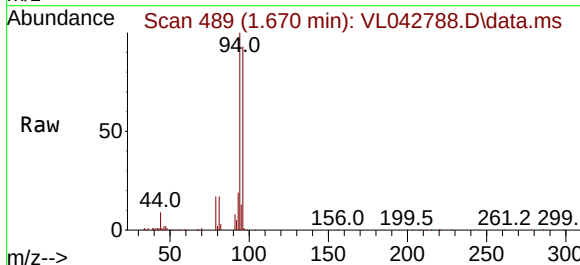
Manual Integrations
 APPROVED

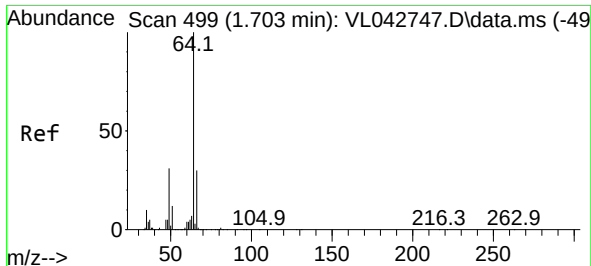
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#6
 Bromomethane
 Concen: 9.837 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

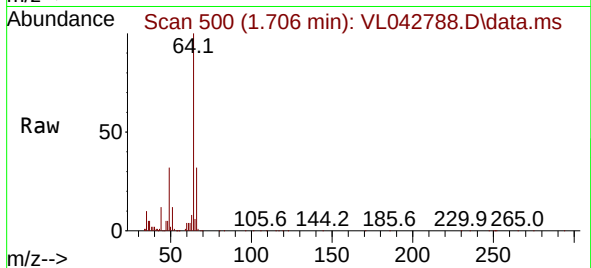
Tgt Ion: 94 Resp: 28024
 Ion Ratio Lower Upper
 94 100
 96 93.2 77.6 116.4





#7
Chloroethane
Concen: 9.160 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

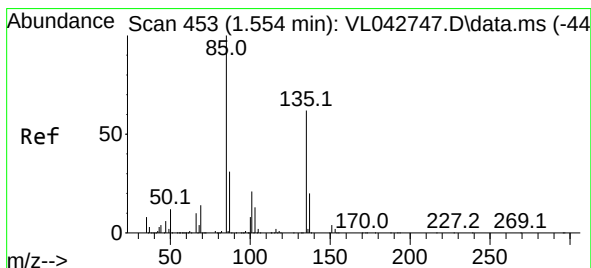
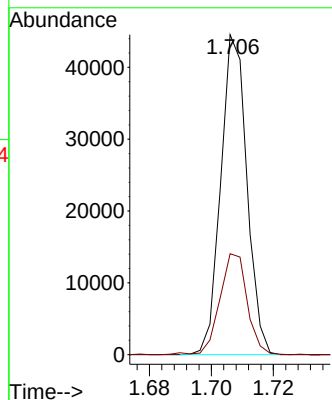
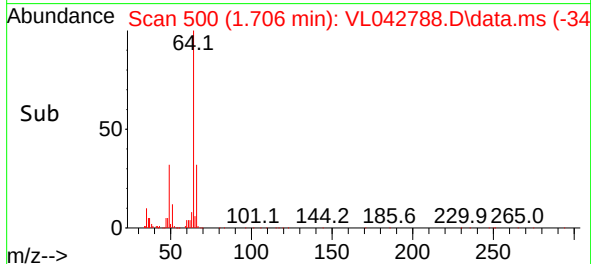
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 64 Resp: 2608
Ion Ratio Lower Upper
64 100
66 31.5 24.1 36.1

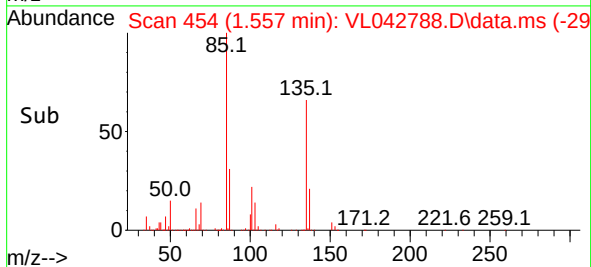
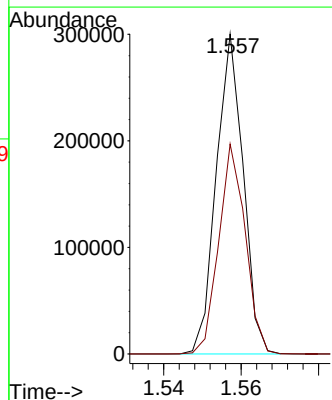
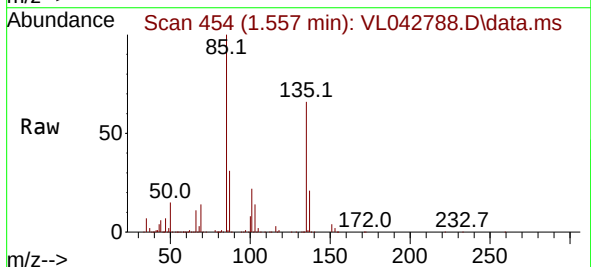
Manual Integrations
APPROVED

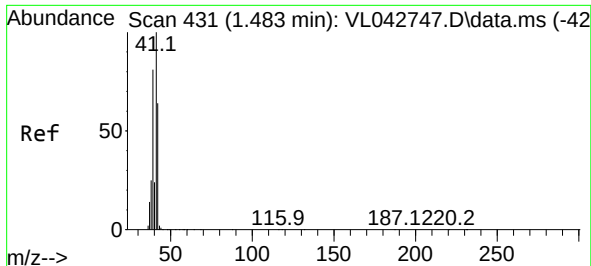
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#8
Dichlorotetrafluoroethane
Concen: 9.571 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

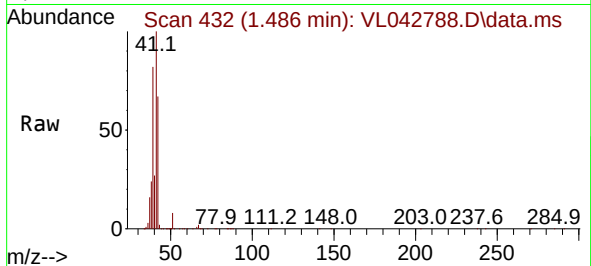
Tgt Ion: 85 Resp: 145116
Ion Ratio Lower Upper
85 100
135 64.7 50.6 76.0





#9
Propene
Concen: 10.882 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

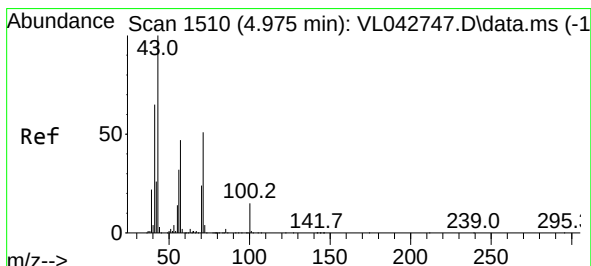
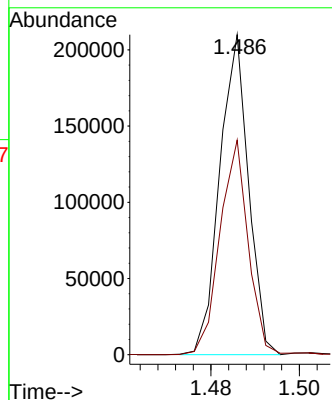
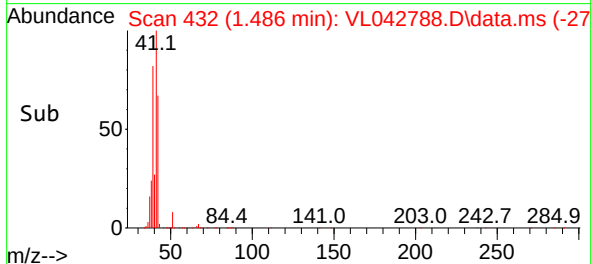
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



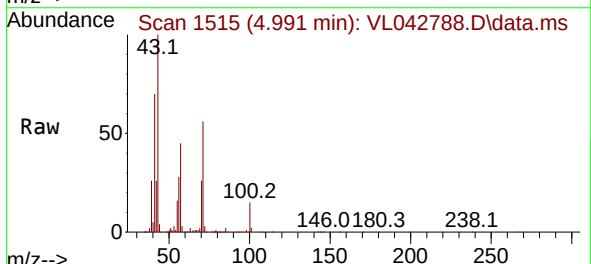
Tgt Ion: 41 Resp: 94980
Ion Ratio Lower Upper
41 100
42 66.3 53.2 79.8

Manual Integrations
APPROVED

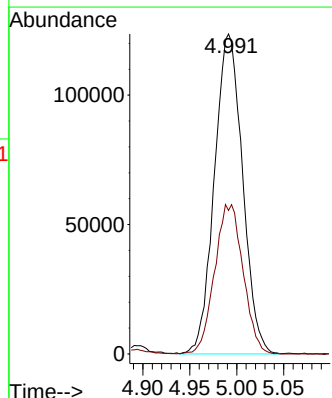
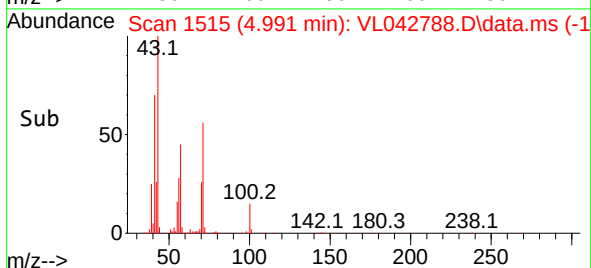
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

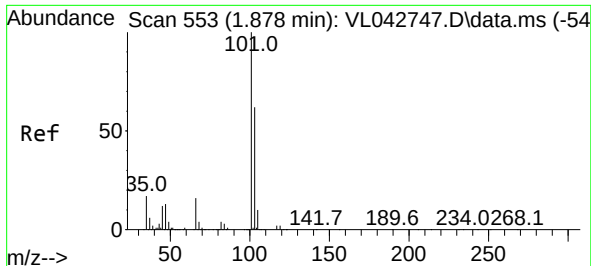


#10
Heptane
Concen: 10.950 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



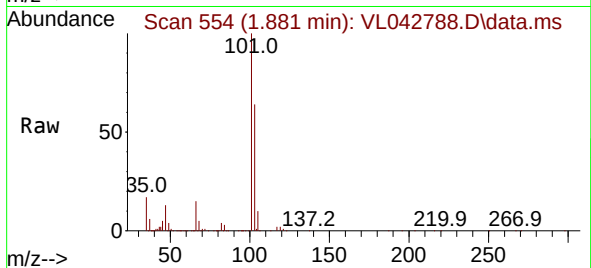
Tgt Ion: 43 Resp: 257717
Ion Ratio Lower Upper
43 100
57 47.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.128 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

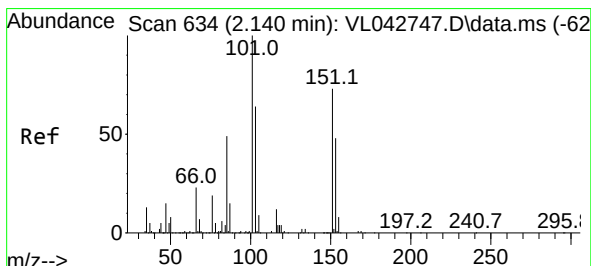
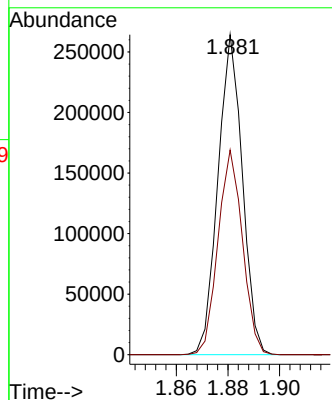
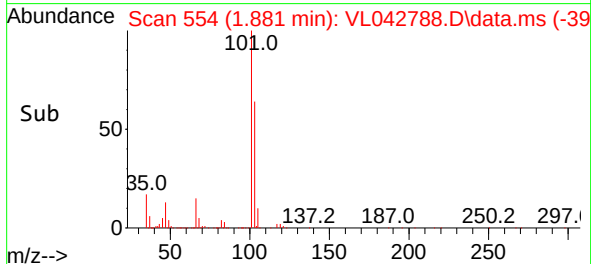
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



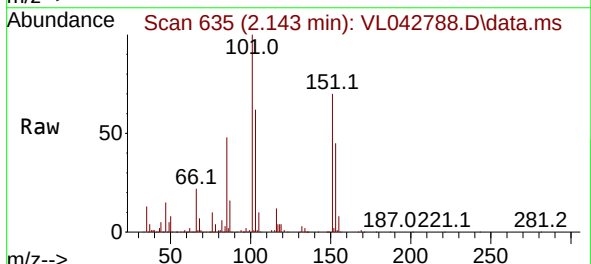
Tgt Ion:101 Resp: 173470
Ion Ratio Lower Upper
101 100
103 63.9 49.6 74.4

Manual Integrations
APPROVED

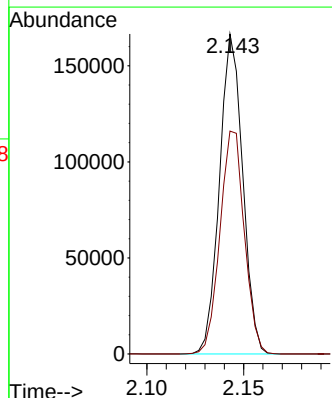
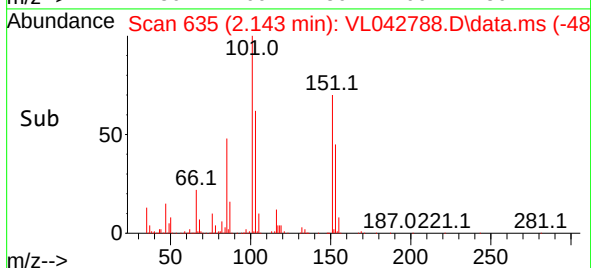
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

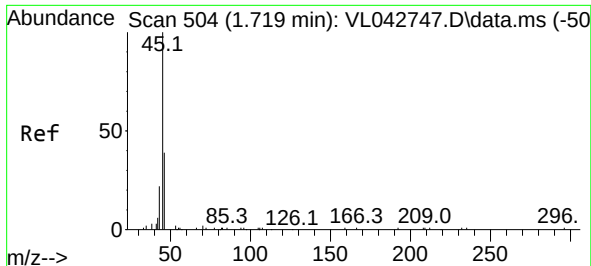


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.600 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



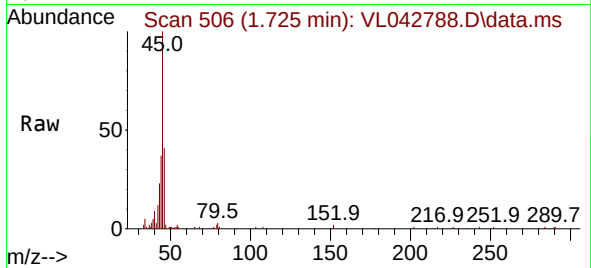
Tgt Ion:101 Resp: 138636
Ion Ratio Lower Upper
101 100
151 73.2 60.5 90.7





#13
Ethanol
Concen: 10.150 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

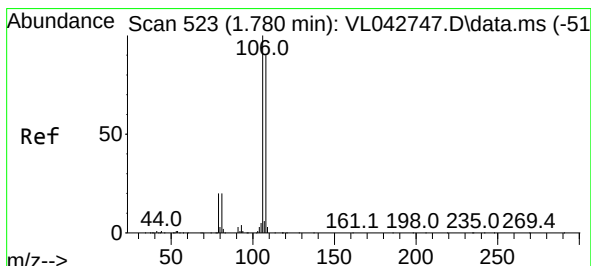
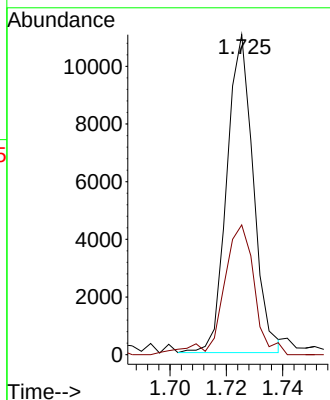
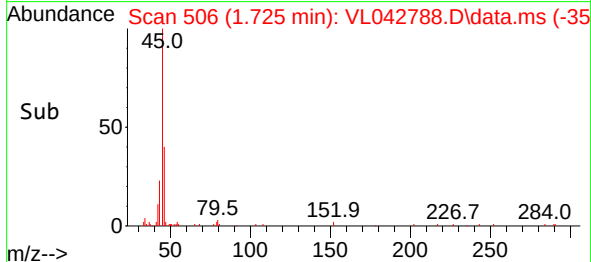
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



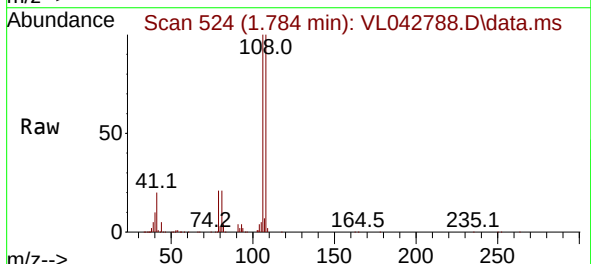
Tgt Ion: 45 Resp: 7183
Ion Ratio Lower Upper
45 100
46 47.6 17.8 71.4

Manual Integrations
APPROVED

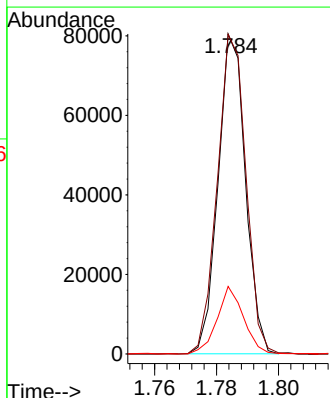
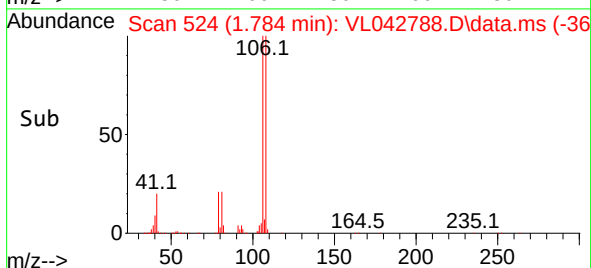
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

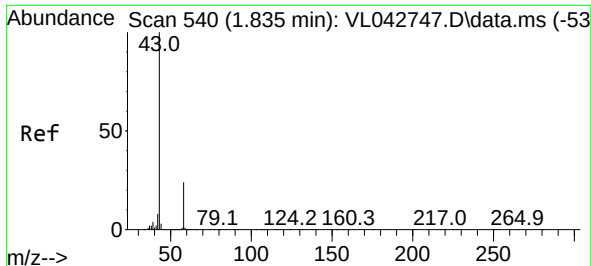


#14
Bromoethene
Concen: 9.639 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



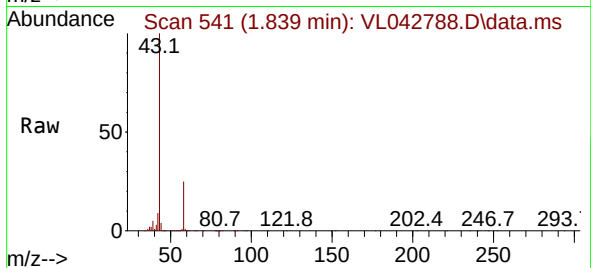
Tgt Ion:108 Resp: 49283
Ion Ratio Lower Upper
108 100
106 104.5 84.7 127.1
79 20.7 17.4 26.2





#15
Acetone
Concen: 7.924 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

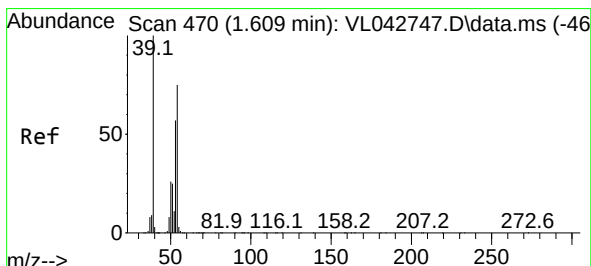
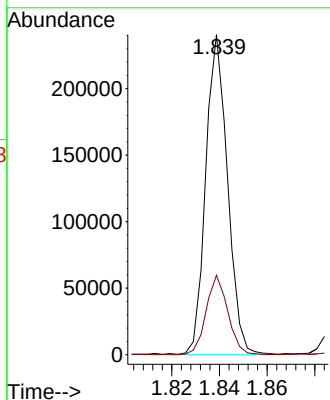
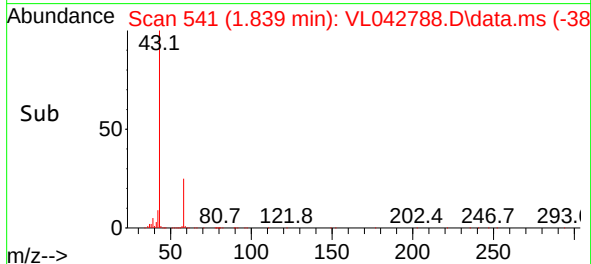
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



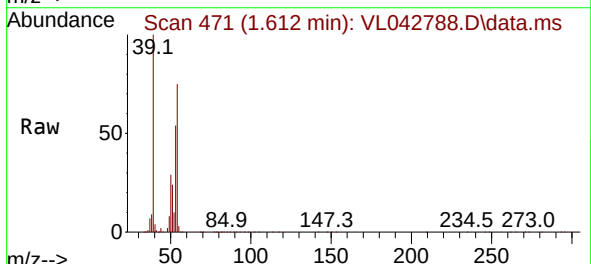
Tgt Ion: 43 Resp: 152570
Ion Ratio Lower Upper
43 100
58 24.9 19.8 29.8

Manual Integrations
APPROVED

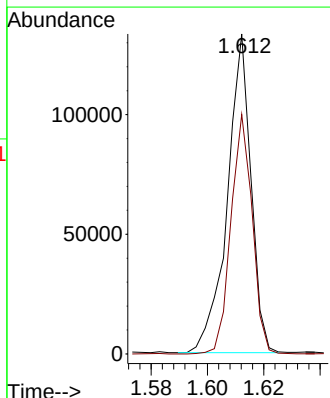
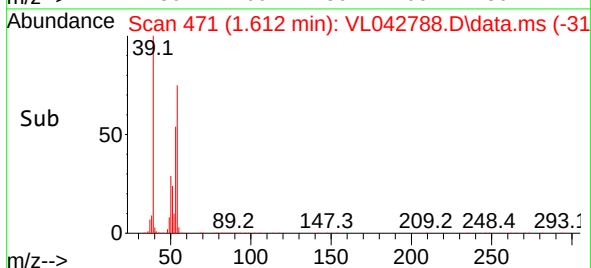
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

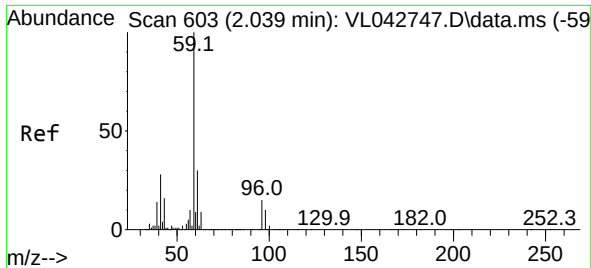


#16
1,3-Butadiene
Concen: 9.425 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion: 39 Resp: 77405
Ion Ratio Lower Upper
39 100
54 67.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.237 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 16040

Ion Ratio Lower Upper

59 100

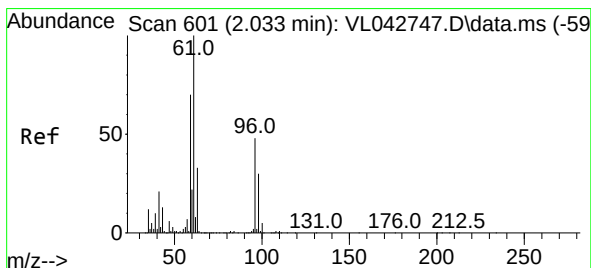
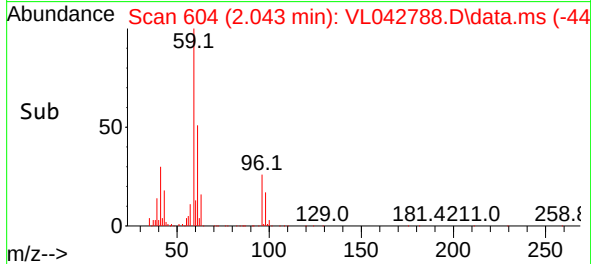
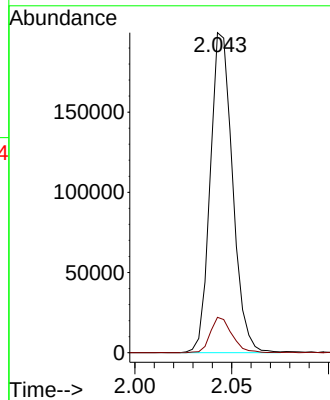
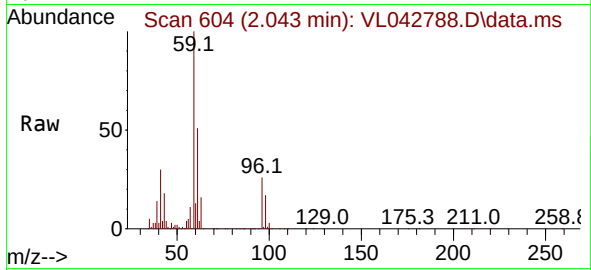
57 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#18

1,1-Dichloroethene

Concen: 9.195 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

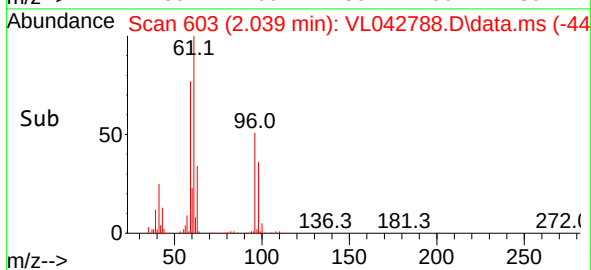
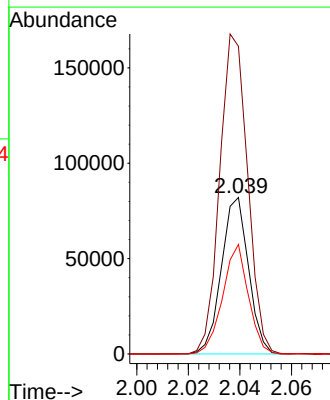
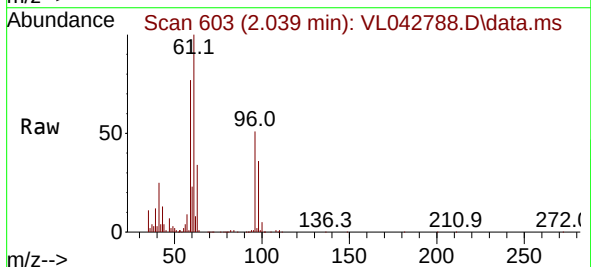
Tgt Ion: 96 Resp: 60001

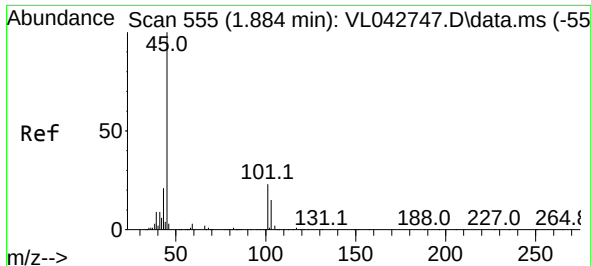
Ion Ratio Lower Upper

96 100

61 196.6 165.8 248.6

98 70.1 49.9 74.9





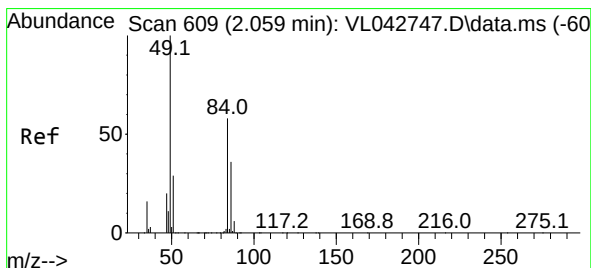
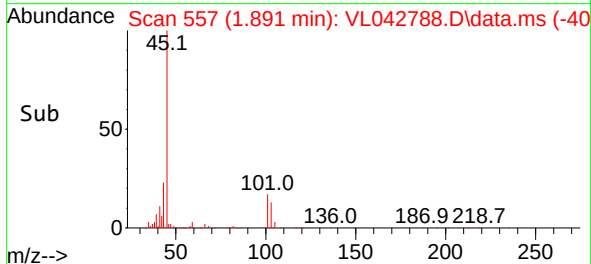
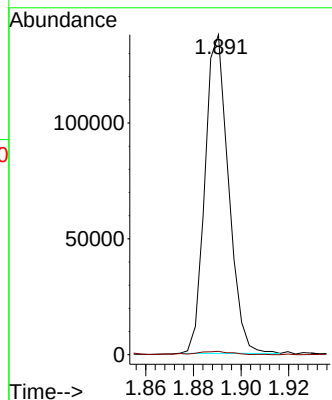
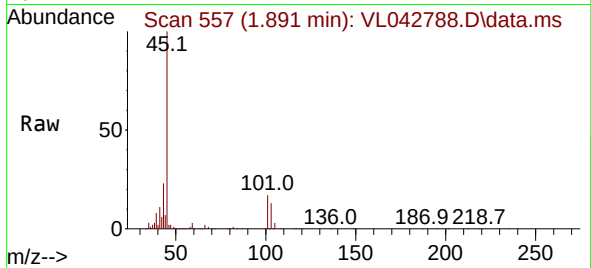
#19
Isopropyl Alcohol
Concen: 9.229 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 94435
Ion Ratio Lower Upper
45 100
58 40.2 30.0 45.0

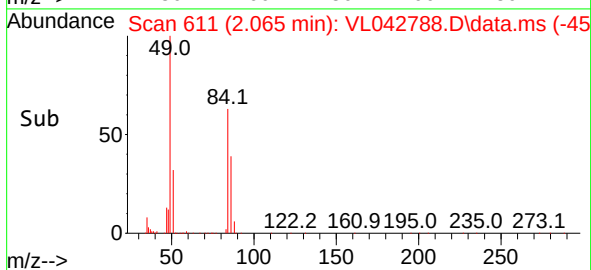
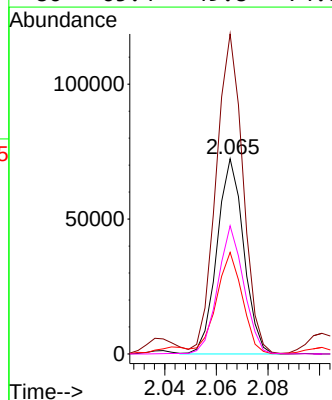
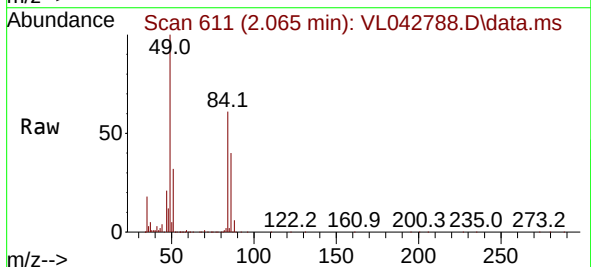
Manual Integrations
APPROVED

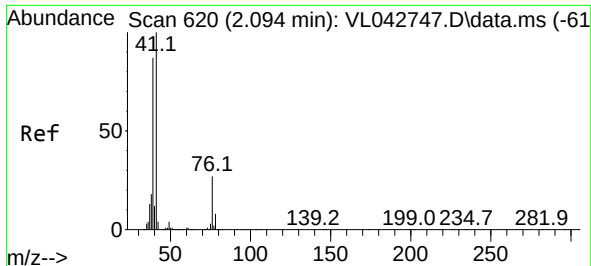
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#20
Methylene Chloride
Concen: 8.566 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

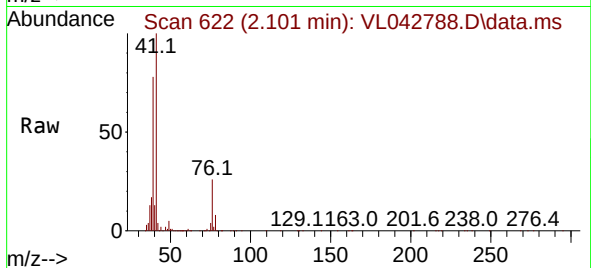
Tgt Ion: 84 Resp: 51973
Ion Ratio Lower Upper
84 100
49 163.4 138.6 208.0
51 51.9 40.6 61.0
86 65.4 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.930 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

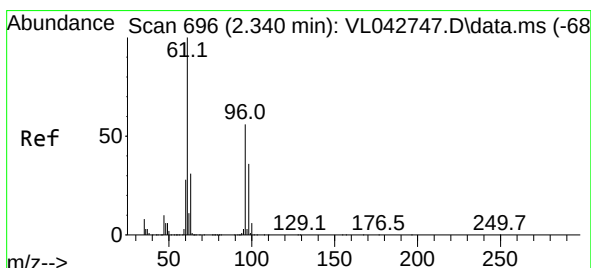
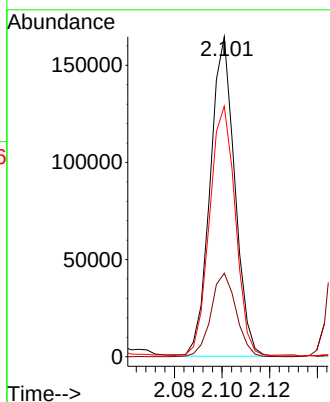
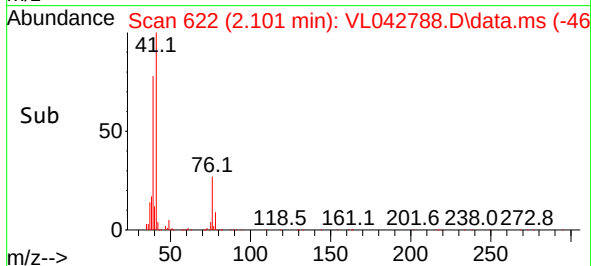
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



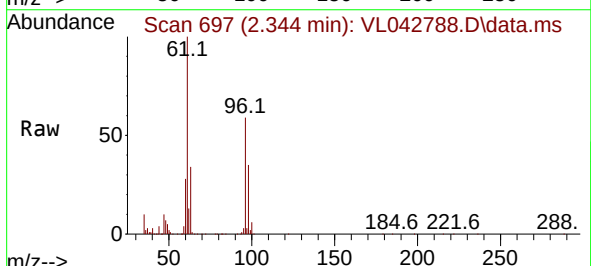
Tgt Ion: 41 Resp: 11783
 Ion Ratio Lower Upper
 41 100
 76 26.7 21.1 31.7
 39 82.2 68.3 102.5

Manual Integrations
 APPROVED

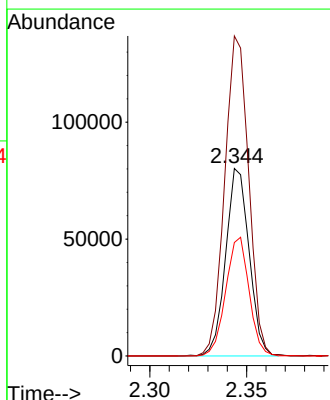
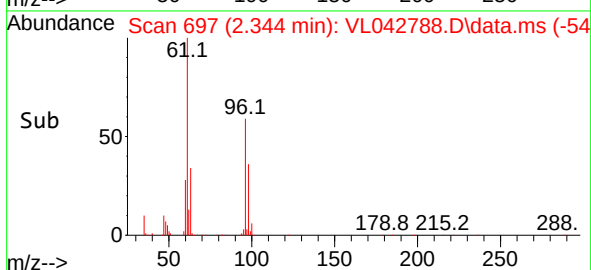
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

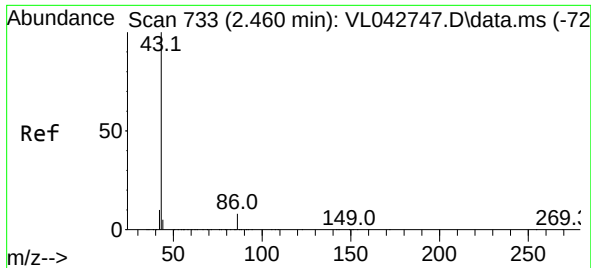


#22
 trans-1,2-Dichloroethene
 Concen: 9.614 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



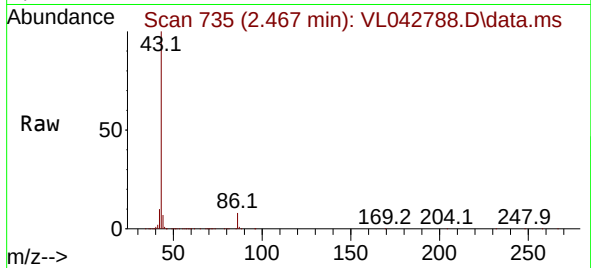
Tgt Ion: 96 Resp: 67488
 Ion Ratio Lower Upper
 96 100
 61 170.6 142.3 213.5
 98 60.5 50.6 76.0





#23
 Vinyl Acetate
 Concen: 12.247 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

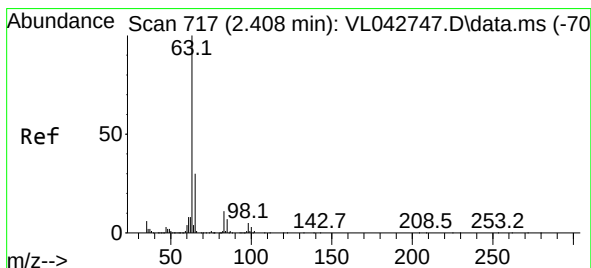
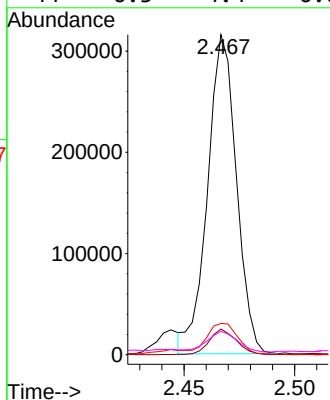
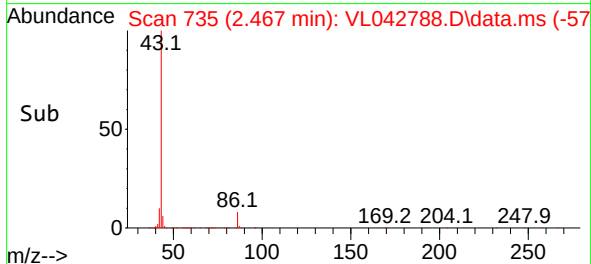
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



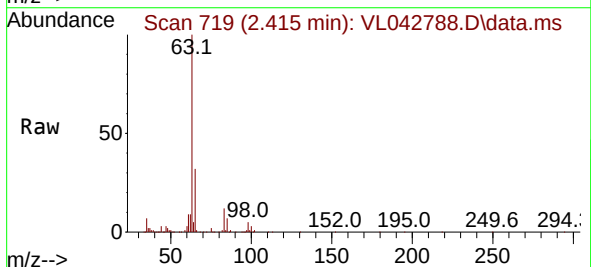
Tgt Ion: 43 Resp: 28586
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.1 9.1
 42 9.6 7.8 11.8
 44 6.3 4.4 6.6

Manual Integrations
 APPROVED

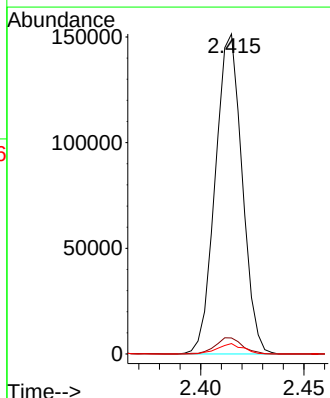
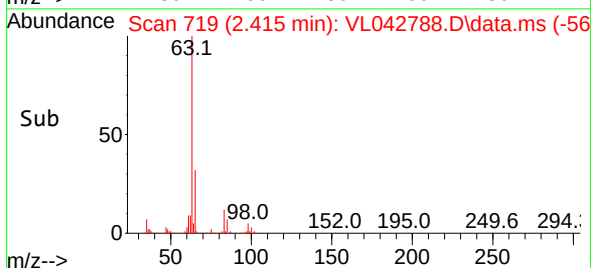
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

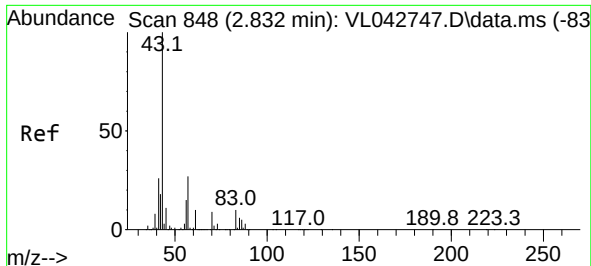


#24
 1,1-Dichloroethane
 Concen: 9.496 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



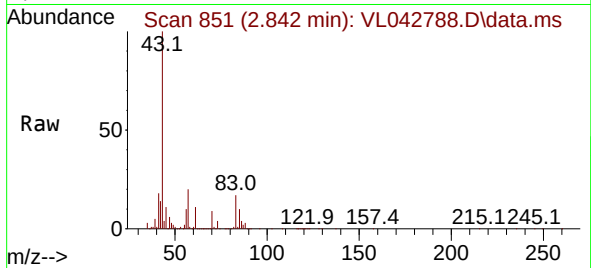
Tgt Ion: 63 Resp: 136815
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.5 7.4
 100 3.3 1.6 4.8





#25
Ethyl Acetate
Concen: 10.702 ppbv
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

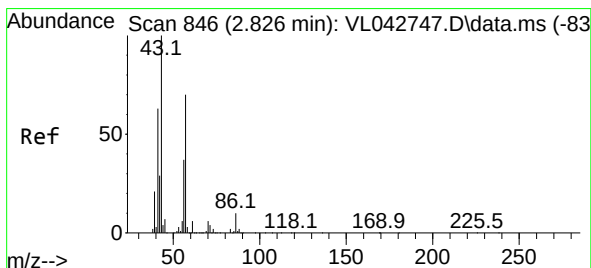
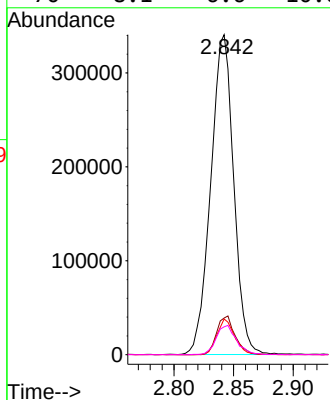
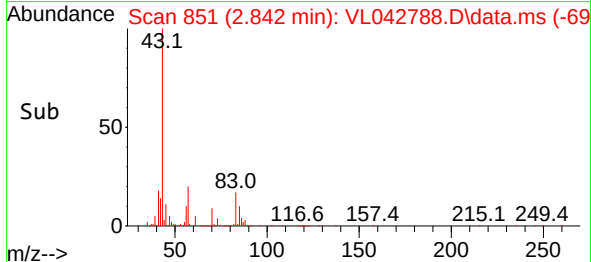
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 456109
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.6
61 8.7 6.7 10.1
70 8.1 6.6 10.0

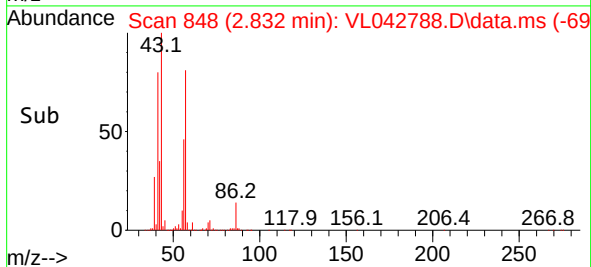
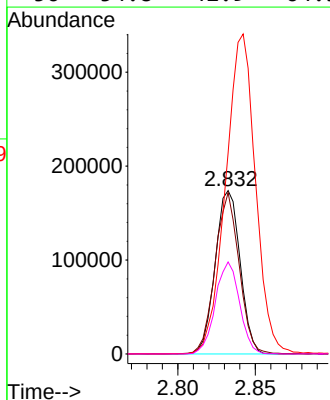
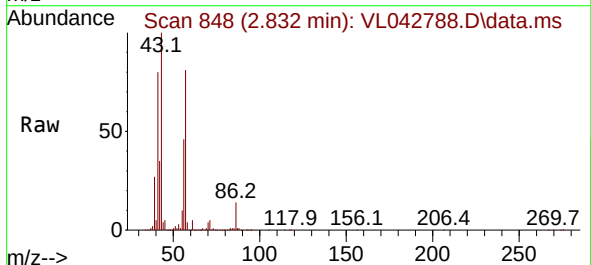
Manual Integrations
APPROVED

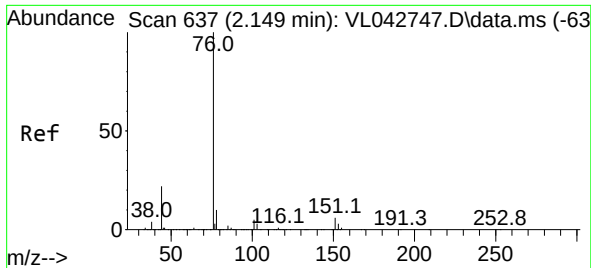
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#26
Hexane
Concen: 10.399 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

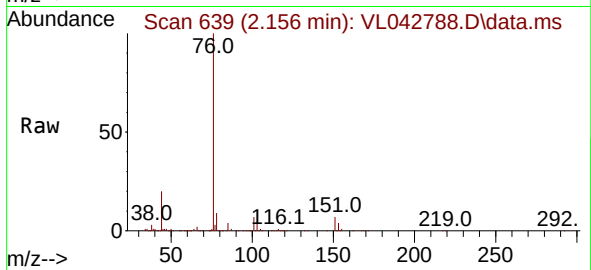
Tgt Ion: 57 Resp: 194417
Ion Ratio Lower Upper
57 100
41 95.9 75.4 113.2
43 235.7 185.0 277.6
56 54.8 42.9 64.3





#27
Carbon Disulfide
Concen: 10.356 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

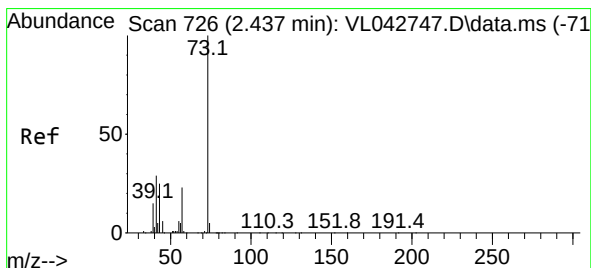
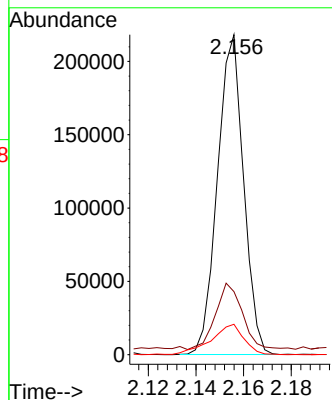
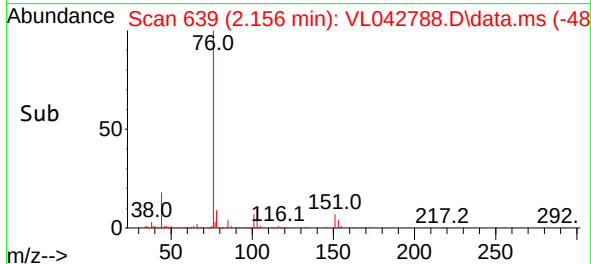
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 76 Resp: 165760
Ion Ratio Lower Upper
76 100
44 21.5 19.3 28.9
78 12.1 9.9 14.9

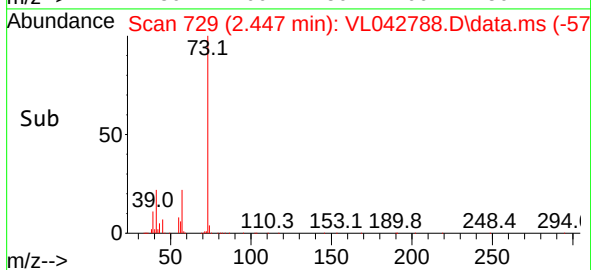
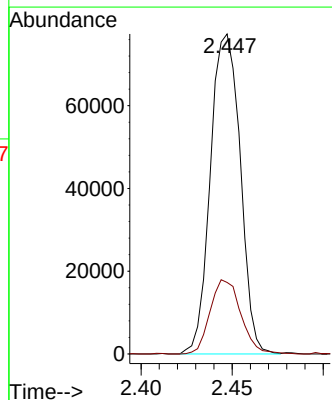
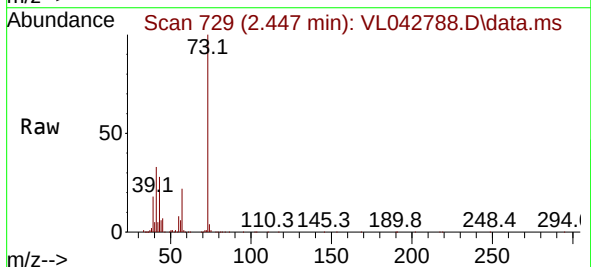
Manual Integrations
APPROVED

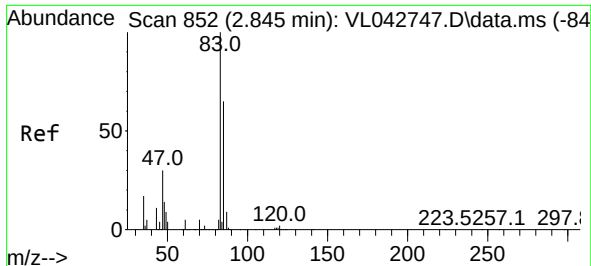
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#28
Methyl tert-Butyl Ether
Concen: 9.982 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 73 Resp: 88166
Ion Ratio Lower Upper
73 100
57 23.9 19.8 29.8





#29

Chloroform

Concen: 10.451 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 301928

Ion Ratio Lower Upper

83 100

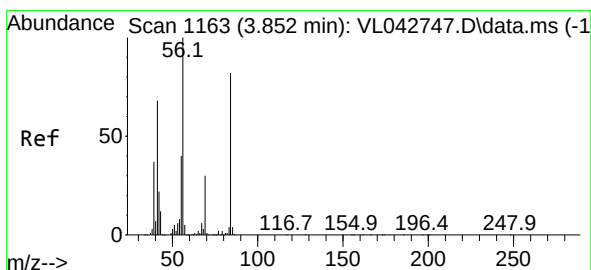
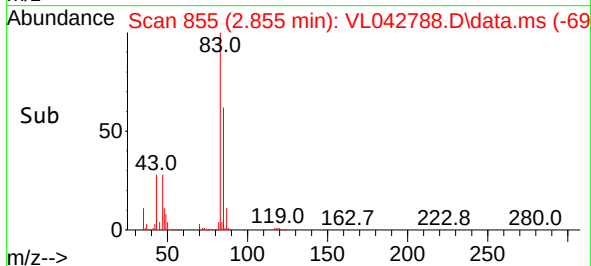
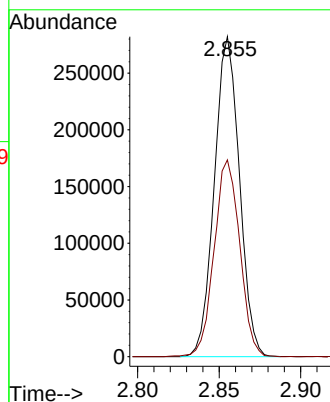
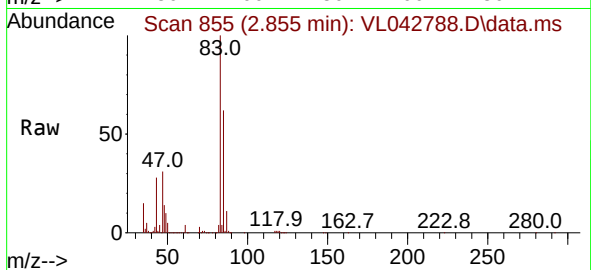
85 61.5 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#30

Cyclohexane

Concen: 10.398 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

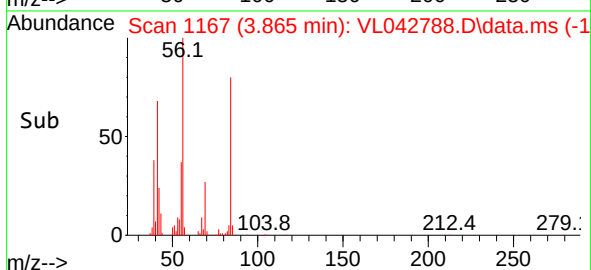
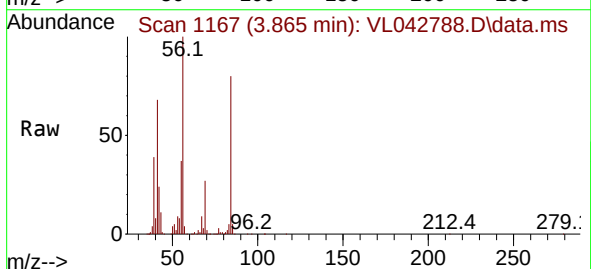
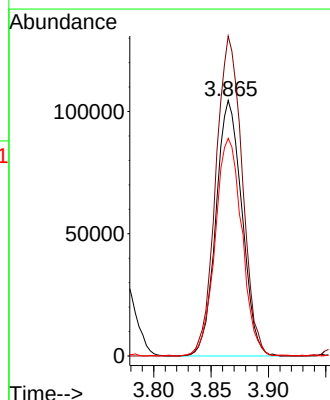
Tgt Ion: 84 Resp: 164864

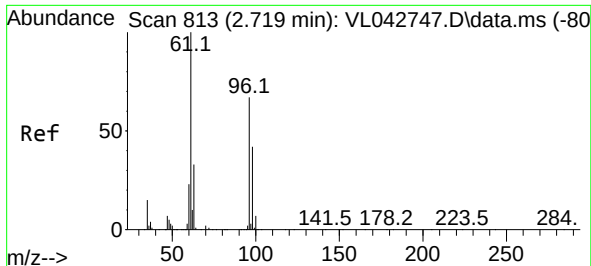
Ion Ratio Lower Upper

84 100

56 126.6 97.5 146.3

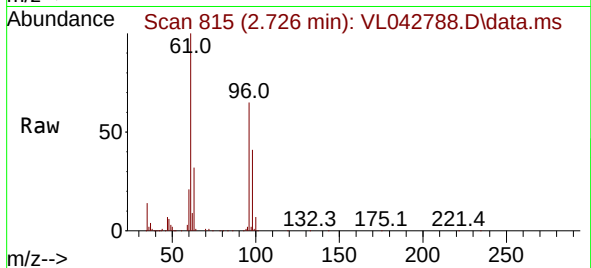
41 87.2 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 10.250 ppbv
 RT: 2.726 min Scan# 813
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

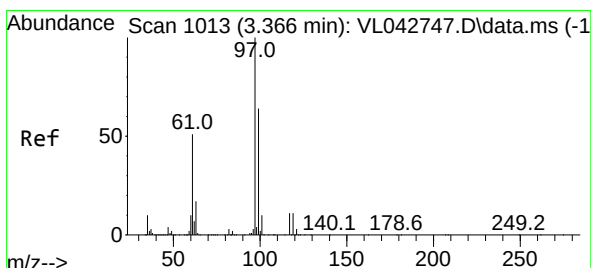
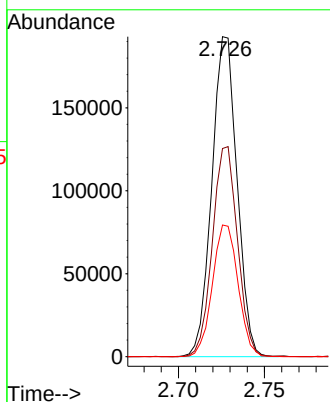
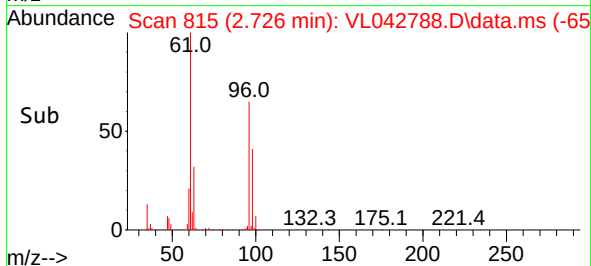
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



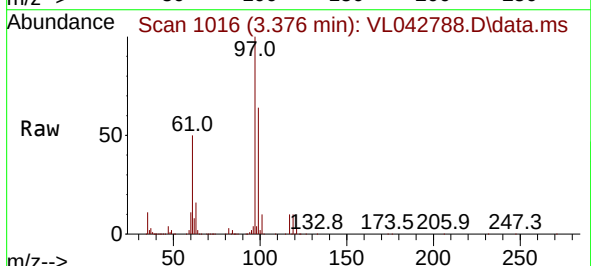
Tgt Ion: 61 Resp: 196928
 Ion Ratio Lower Upper
 61 100
 96 64.9 53.5 80.3
 98 41.2 33.6 50.4

Manual Integrations
 APPROVED

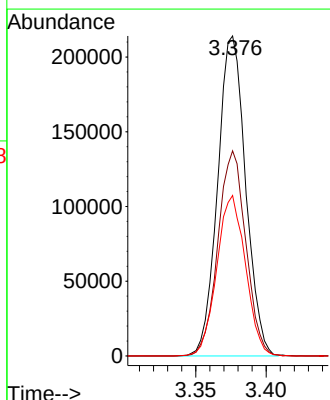
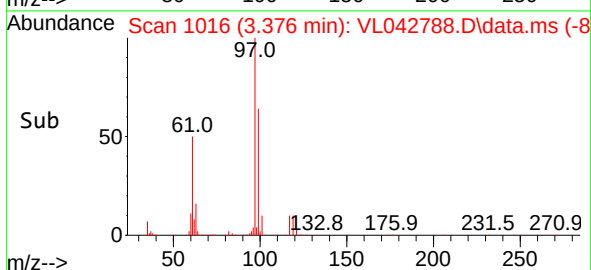
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

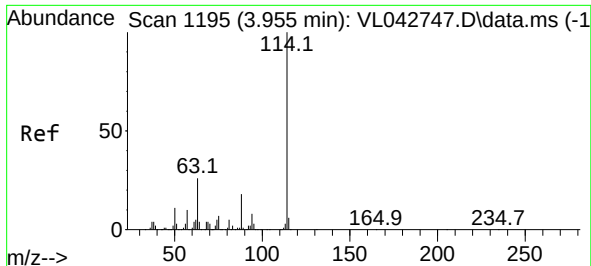


#32
 1,1,1-Trichloroethane
 Concen: 9.850 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



Tgt Ion: 97 Resp: 296432
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 51.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

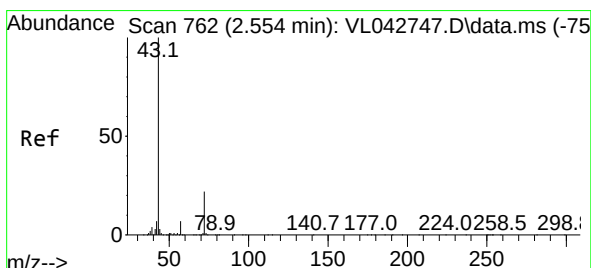
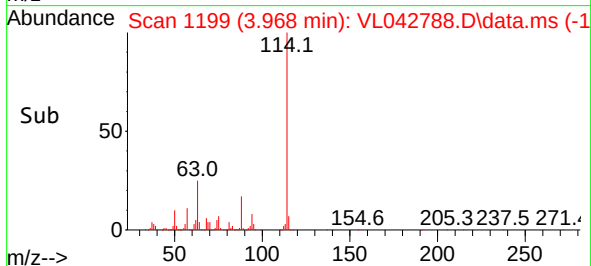
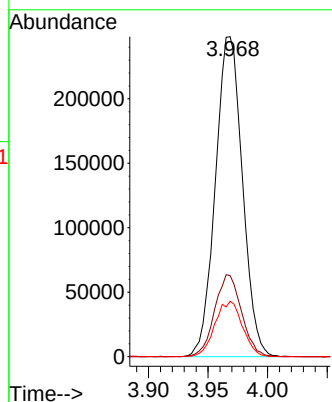
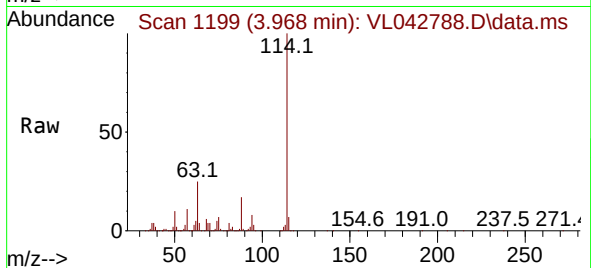
VSTDCCC010

Tgt Ion:114 Resp: 391811
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.5 30.7
 88 17.6 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#34

2-Butanone

Concen: 10.726 ppbv

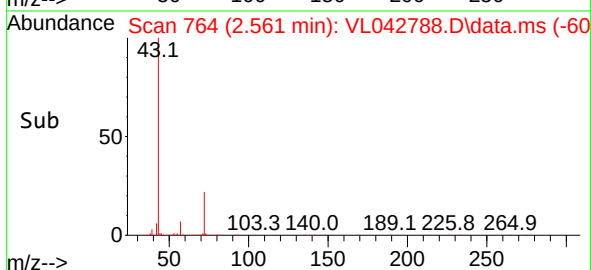
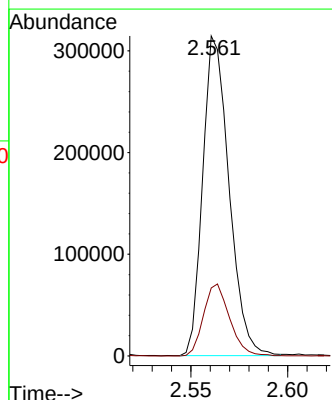
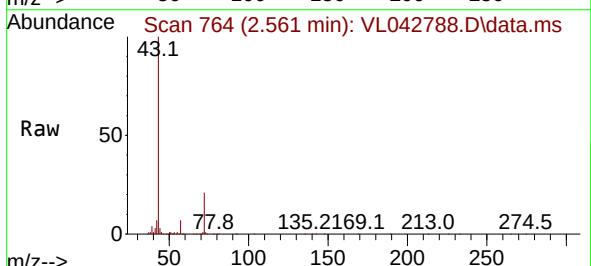
RT: 2.561 min Scan# 764

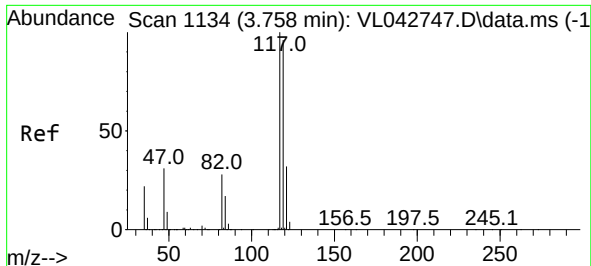
Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 43 Resp: 297678
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.4 26.0





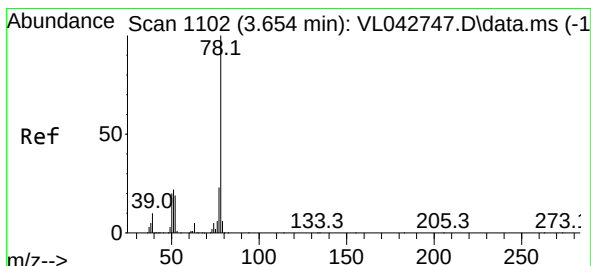
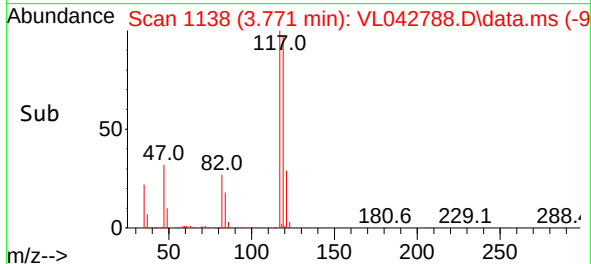
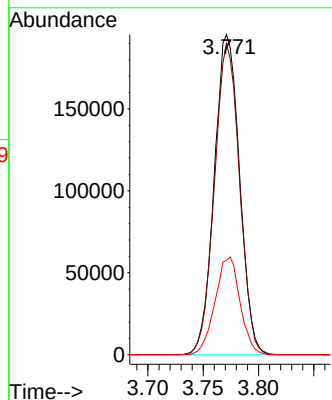
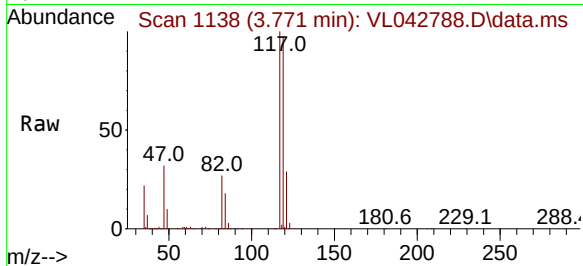
#35
Carbon Tetrachloride
Concen: 10.672 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 31058
Ion Ratio Lower Upper
117 100
119 97.3 77.1 115.7
121 29.5 25.5 38.3

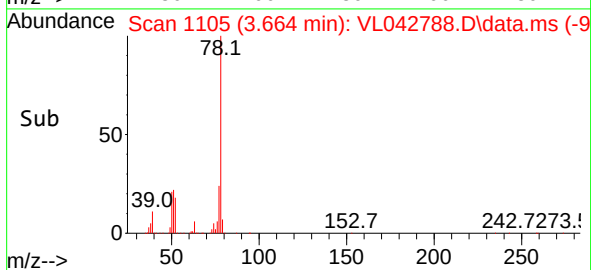
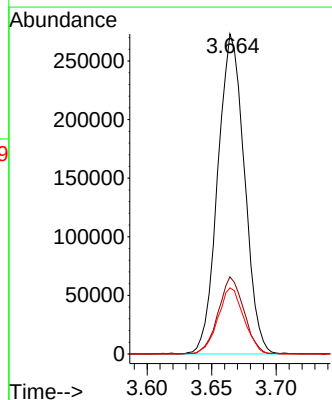
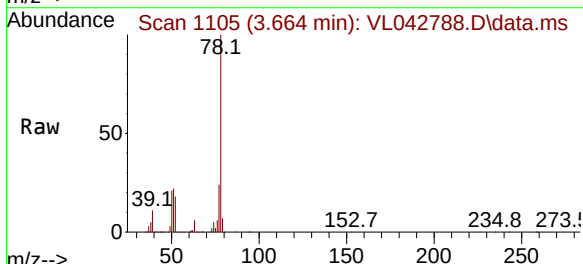
Manual Integrations
APPROVED

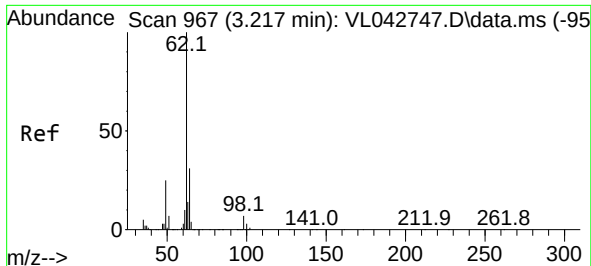
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#36
Benzene
Concen: 10.548 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 78 Resp: 391679
Ion Ratio Lower Upper
78 100
77 24.0 18.5 27.7
50 20.6 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.592 ppbv

RT: 3.227 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 236929

Ion Ratio Lower Upper

62 100

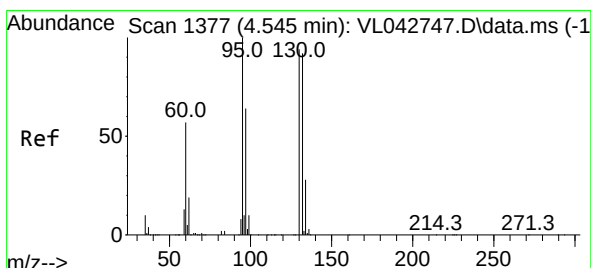
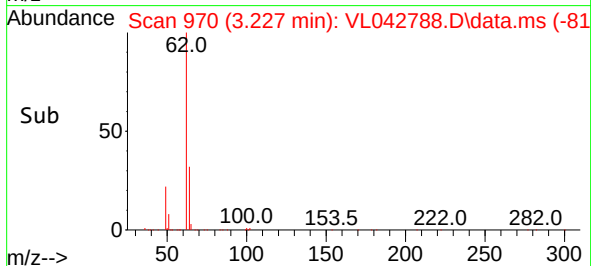
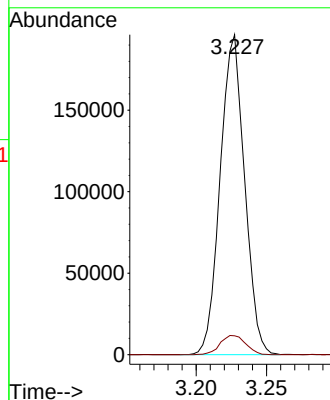
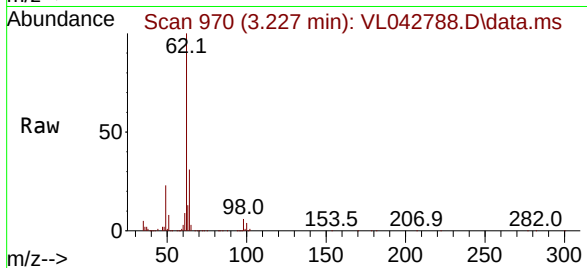
98 6.3 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#38

Trichloroethene

Concen: 9.991 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:130 Resp: 178226

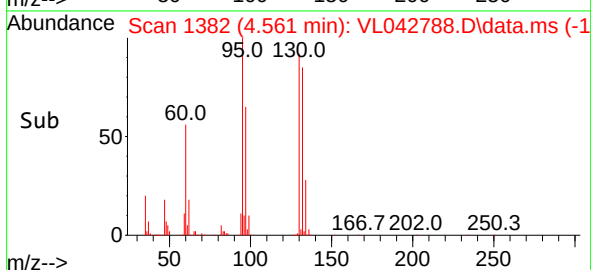
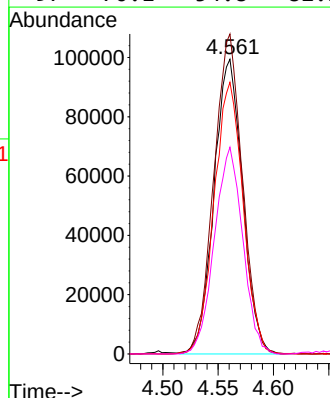
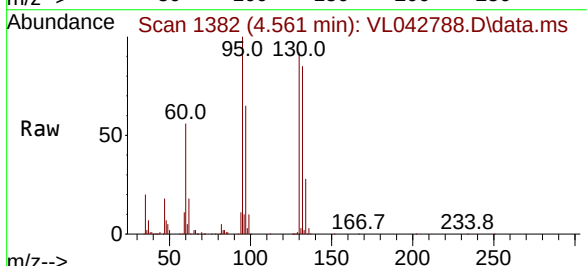
Ion Ratio Lower Upper

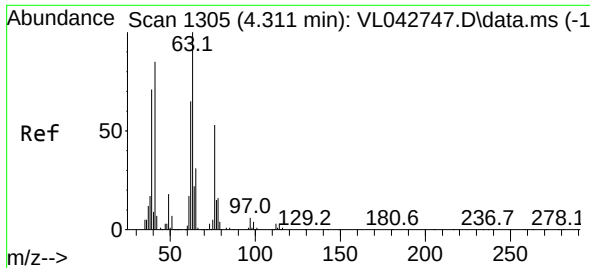
130 100

95 108.2 85.4 128.2

132 92.1 78.2 117.2

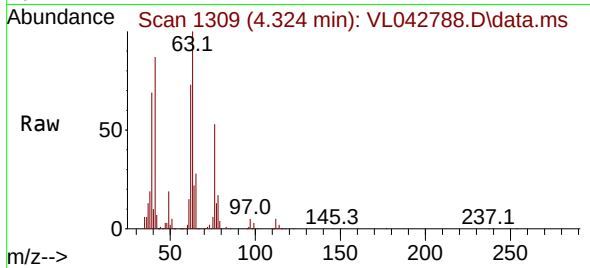
97 70.1 54.8 82.2





#39
 1,2-Dichloropropane
 Concen: 10.505 ppbv
 RT: 4.324 min Scan# 1309
 Delta R.T. 0.013 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

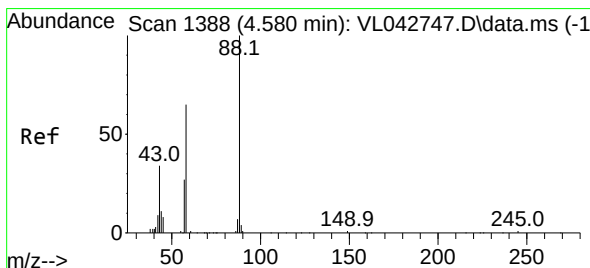
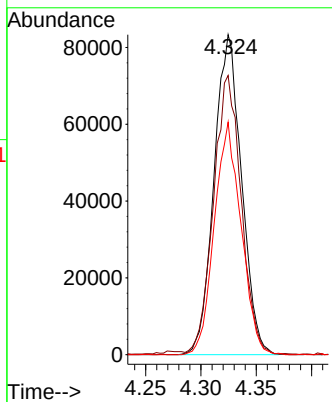
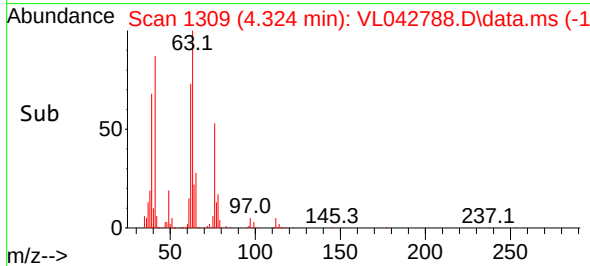
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



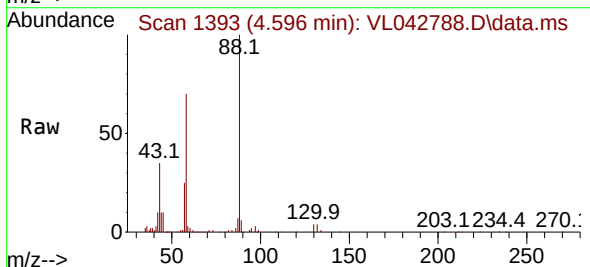
Tgt Ion: 63 Resp: 143980
 Ion Ratio Lower Upper
 63 100
 41 87.0 68.2 102.4
 62 72.7 52.0 78.0

Manual Integrations
 APPROVED

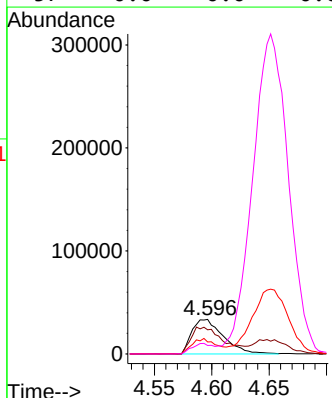
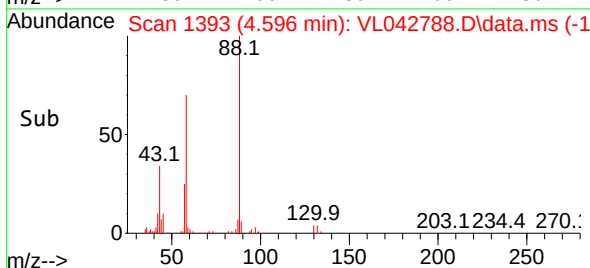
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

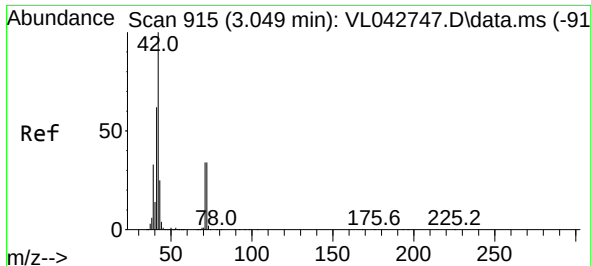


#40
 1,4-Dioxane
 Concen: 10.049 ppbv
 RT: 4.596 min Scan# 1393
 Delta R.T. 0.016 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



Tgt Ion: 88 Resp: 64201
 Ion Ratio Lower Upper
 88 100
 58 79.6 58.8 88.2
 43 33.4 28.9 43.3
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 11.447 ppbv

RT: 3.059 min Scan# 915

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 42 Resp: 161670

Ion Ratio Lower Upper

42 100

72 36.3 30.9 46.3

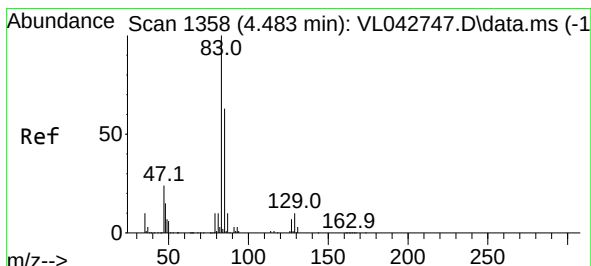
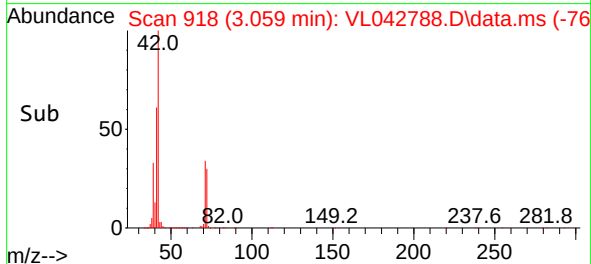
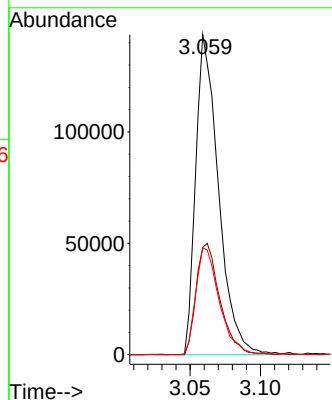
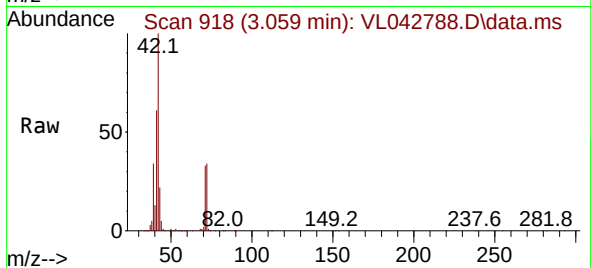
71 34.9 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#42

Bromodichloromethane

Concen: 11.125 ppbv

RT: 4.499 min Scan# 1363

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

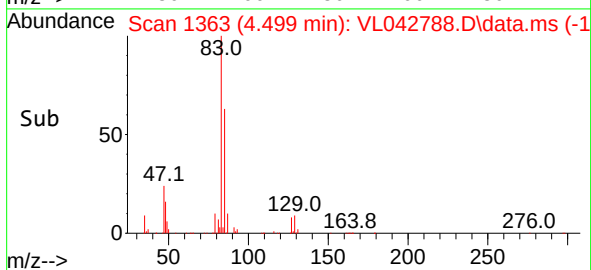
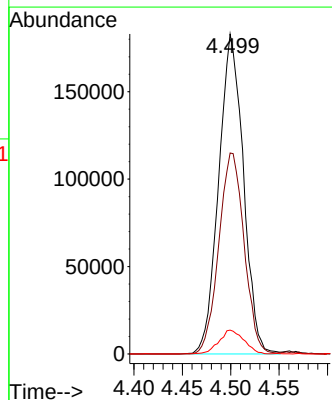
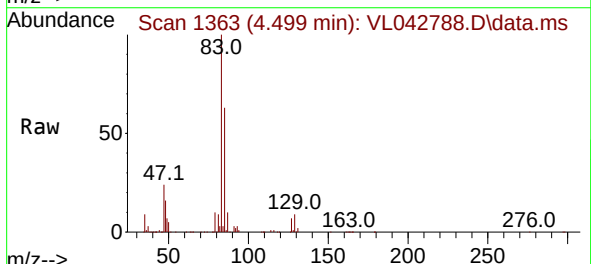
Tgt Ion: 83 Resp: 324091

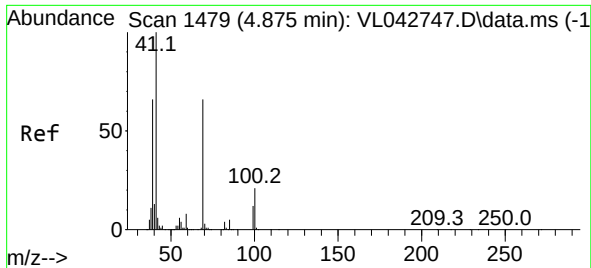
Ion Ratio Lower Upper

83 100

85 62.8 50.2 75.4

127 7.5 5.4 8.2





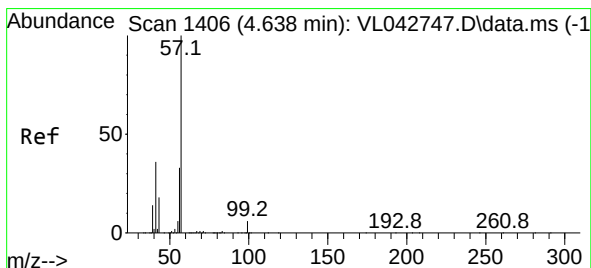
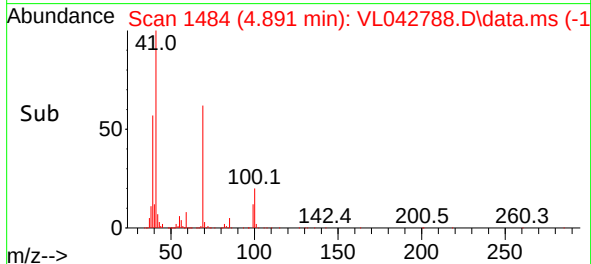
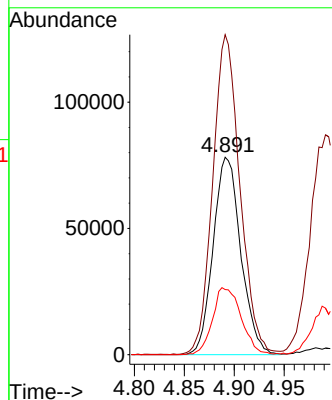
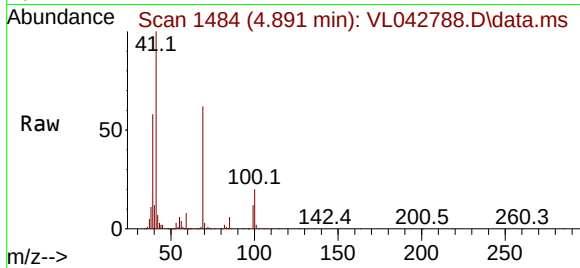
#43
Methyl Methacrylate
Concen: 11.418 ppbv
RT: 4.891 min Scan# 1410
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 150704
Ion Ratio Lower Upper
69 100
41 159.5 125.7 188.5
100 35.3 28.6 42.8

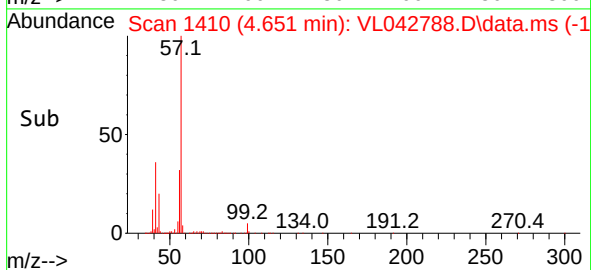
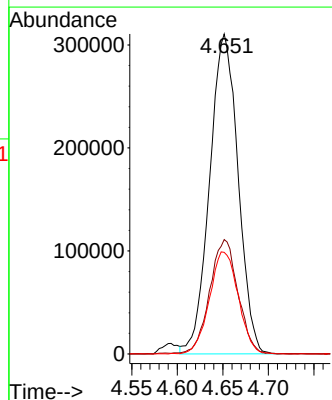
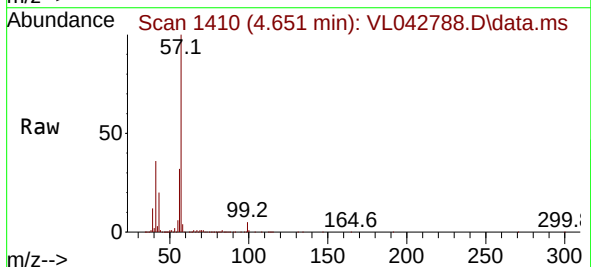
Manual Integrations
APPROVED

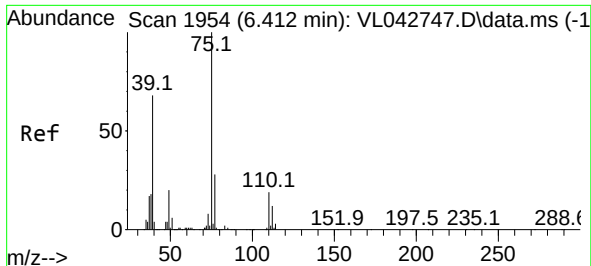
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#44
2,2,4-Trimethylpentane
Concen: 11.142 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

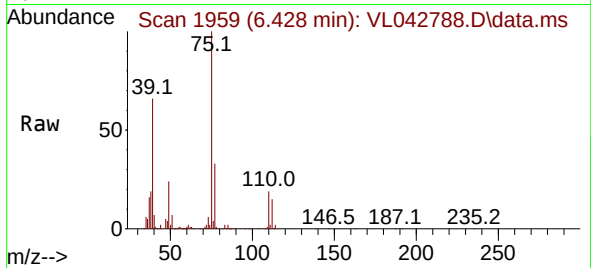
Tgt Ion: 57 Resp: 674333
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.4 25.8 38.6





#45
 t-1,3-Dichloropropene
 Concen: 11.393 ppbv
 RT: 6.428 min Scan# 1954
 Delta R.T. 0.016 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

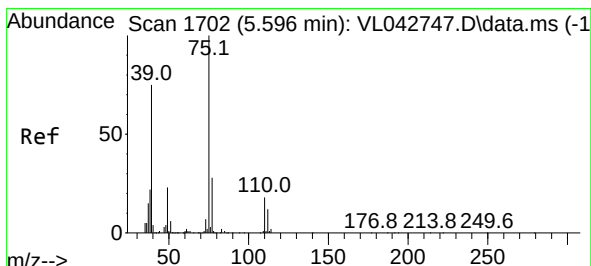
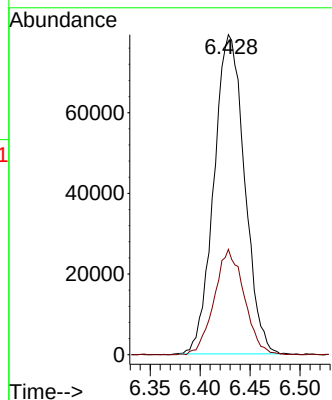
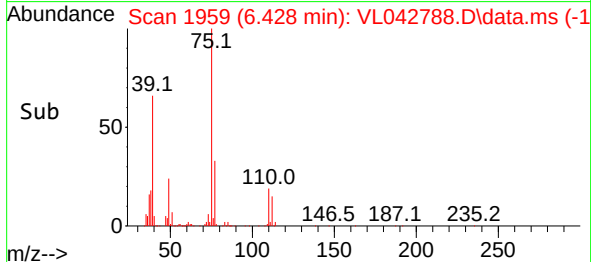
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 75 Resp: 16863
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.4 33.6

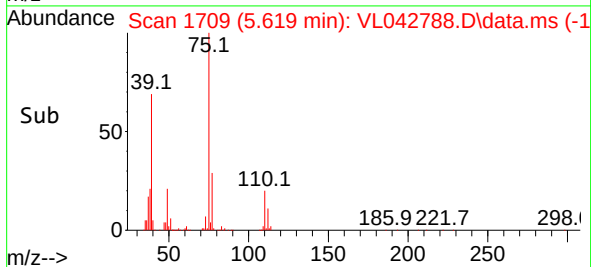
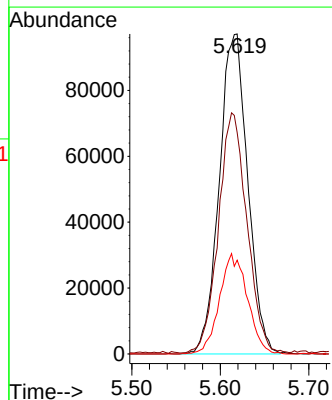
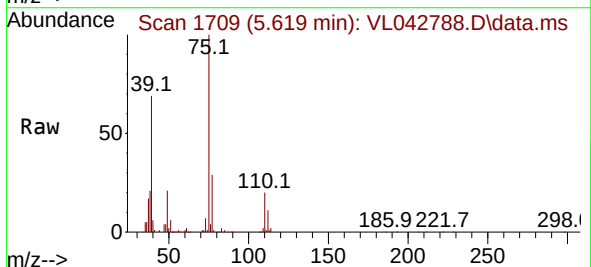
Manual Integrations
 APPROVED

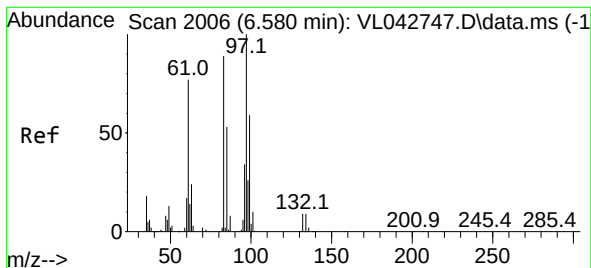
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.589 ppbv
 RT: 5.619 min Scan# 1709
 Delta R.T. 0.023 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 75 Resp: 217364
 Ion Ratio Lower Upper
 75 100
 39 68.9 60.2 90.2
 77 29.3 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 10.618 ppbv

RT: 6.597 min Scan# 2006

Delta R.T. 0.016 min

Lab File: VL042788.D

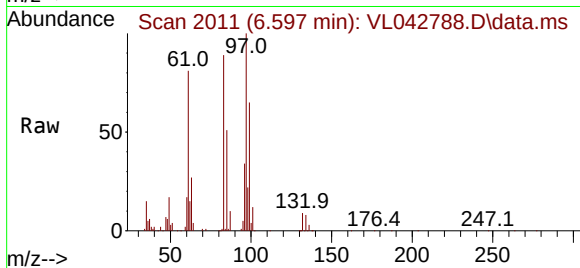
Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 97 Resp: 15514

Ion Ratio Lower Upper

97 100

83 89.2 71.1 106.7

85 50.8 43.0 64.4

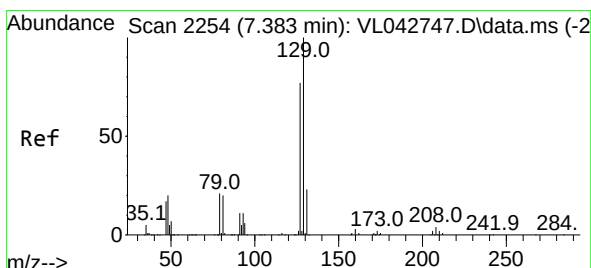
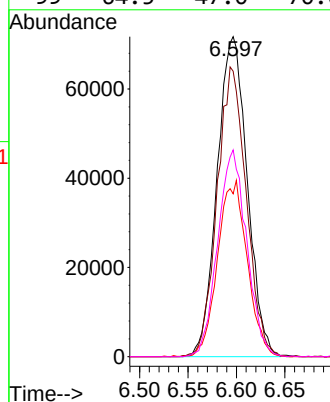
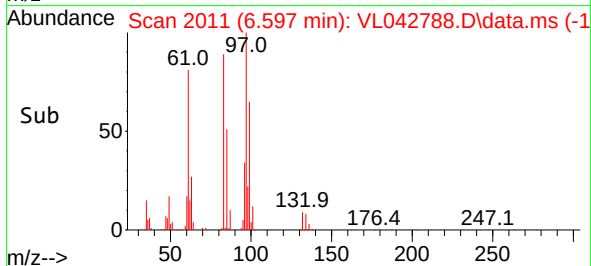
99 64.5 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#48

Dibromochloromethane

Concen: 11.346 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.016 min

Lab File: VL042788.D

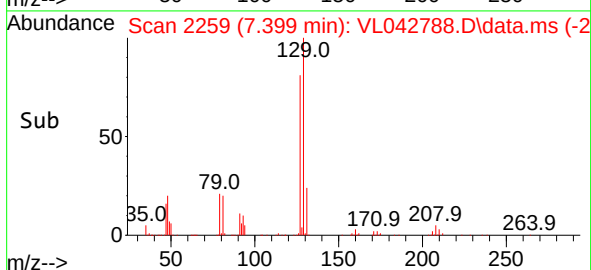
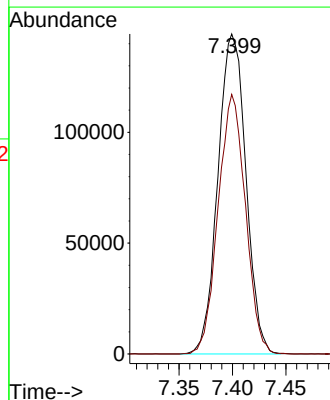
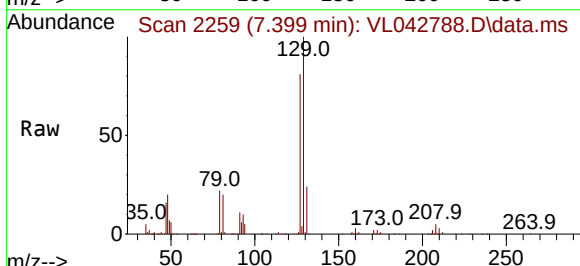
Acq: 31 Jul 2025 08:37

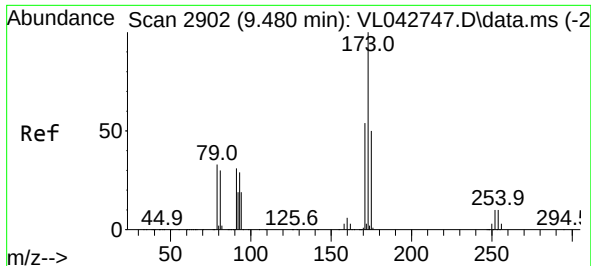
Tgt Ion:129 Resp: 263177

Ion Ratio Lower Upper

129 100

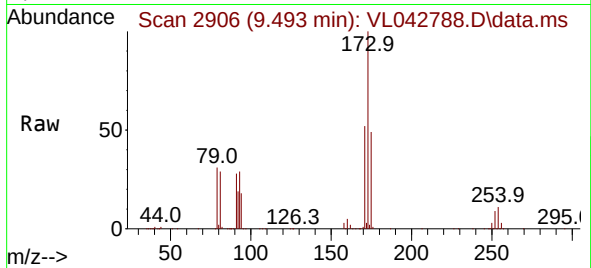
127 79.2 38.7 116.1





#49
Bromoform
Concen: 11.551 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

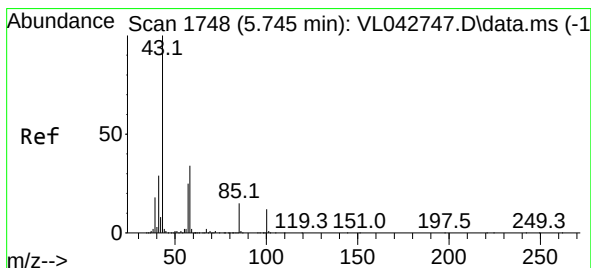
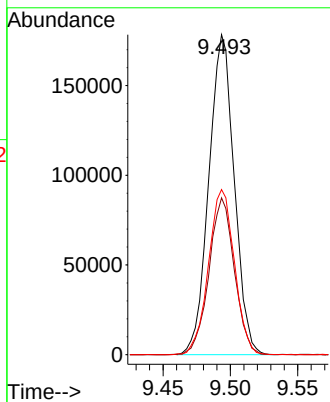
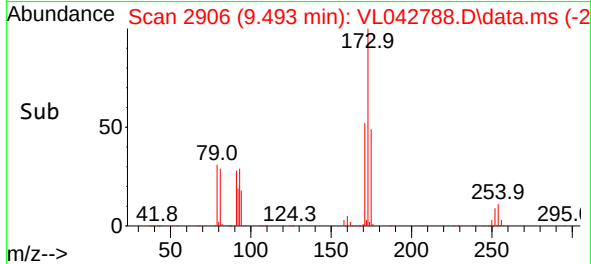
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:173 Resp: 233620
Ion Ratio Lower Upper
173 100
175 49.1 38.4 57.6
171 52.8 40.9 61.3

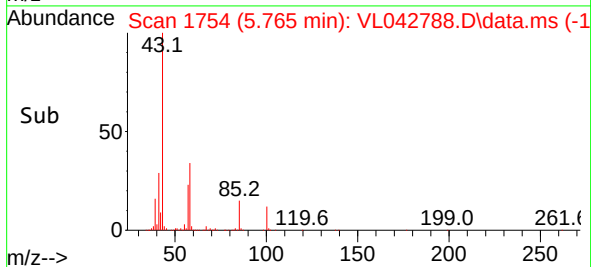
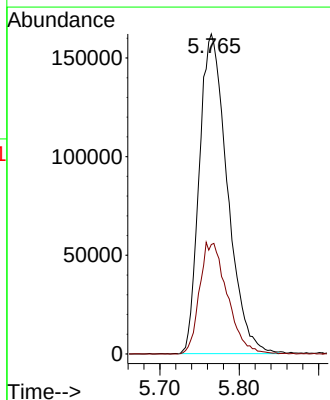
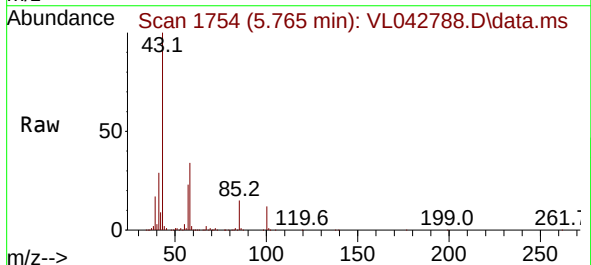
Manual Integrations
APPROVED

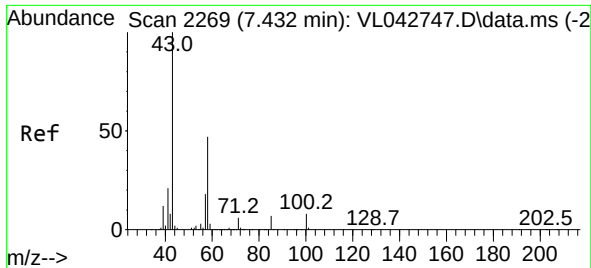
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#50
4-Methyl-2-Pentanone
Concen: 11.101 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.019 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

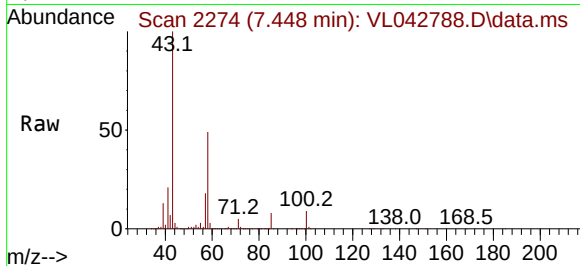
Tgt Ion: 43 Resp: 396864
Ion Ratio Lower Upper
43 100
58 34.7 27.8 41.8





#51
2-Hexanone
Concen: 11.778 ppbv
RT: 7.448 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

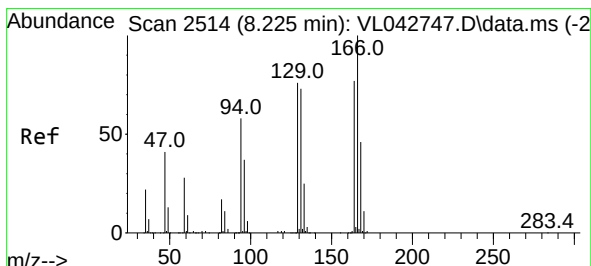
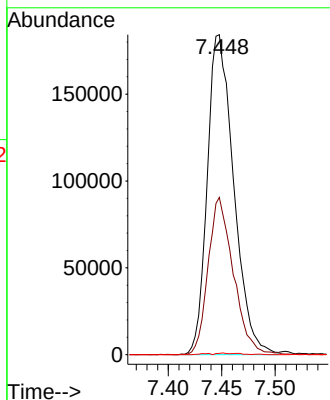
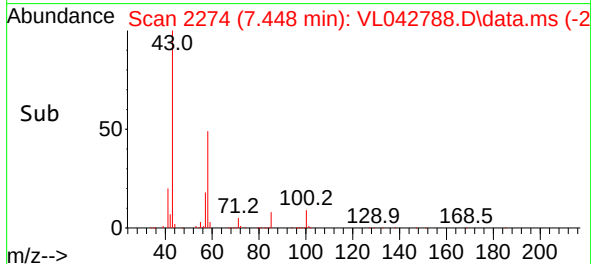
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 318210
Ion Ratio Lower Upper
43 100
58 46.9 38.0 57.0
98 0.6 0.2 0.4

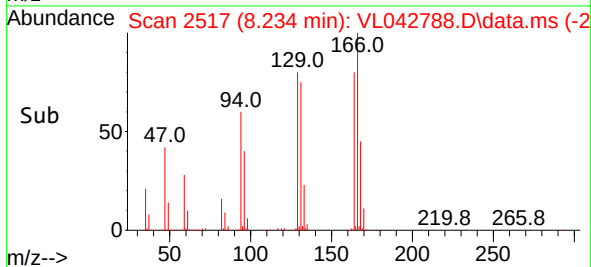
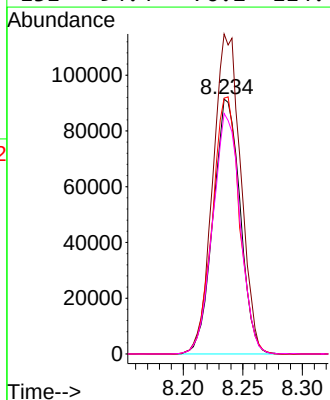
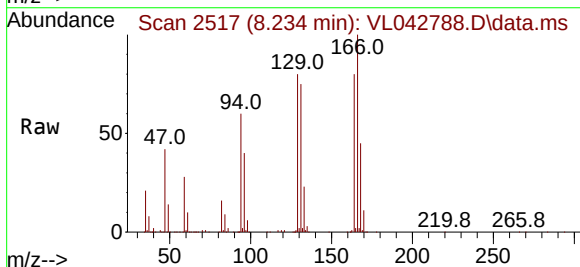
Manual Integrations
APPROVED

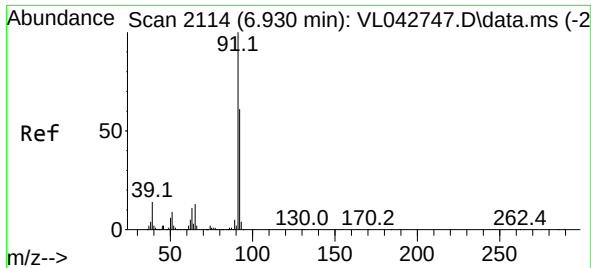
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#52
Tetrachloroethene
Concen: 9.319 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:164 Resp: 143437
Ion Ratio Lower Upper
164 100
166 125.6 104.0 156.0
129 100.3 79.2 118.8
131 94.4 76.2 114.4





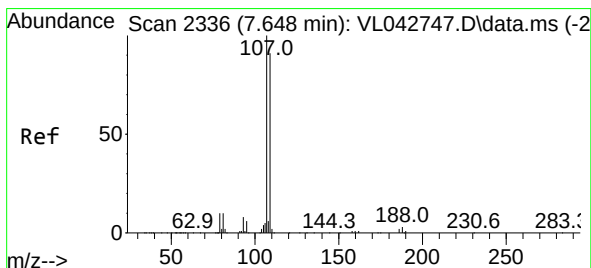
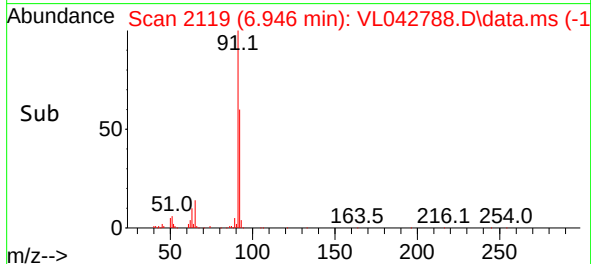
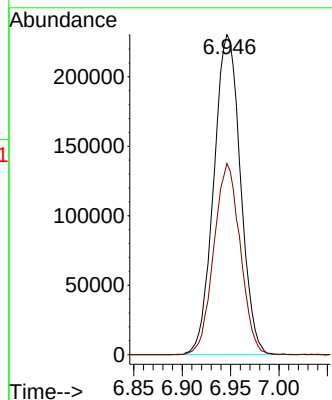
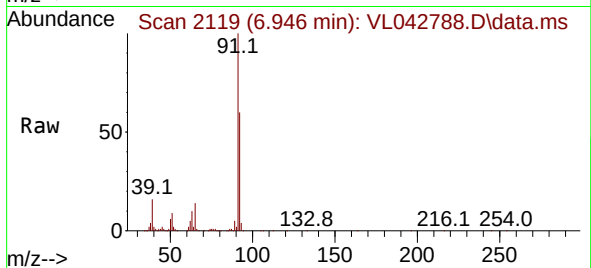
#53
Toluene
Concen: 11.044 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 440370
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0

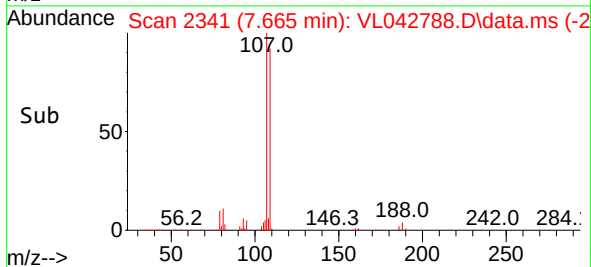
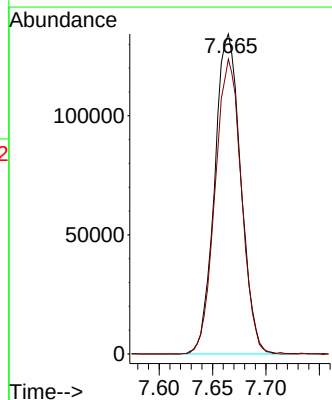
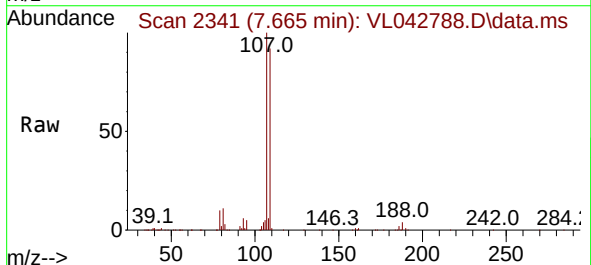
Manual Integrations
APPROVED

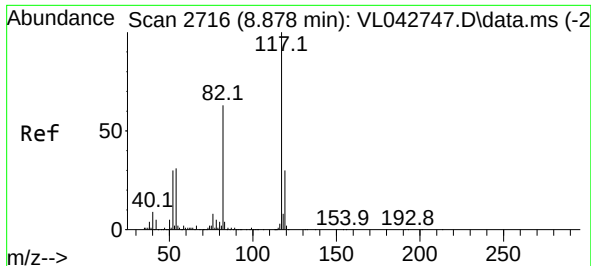
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#54
1,2-Dibromoethane
Concen: 11.078 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

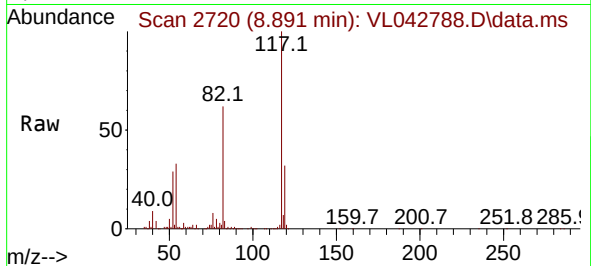
Tgt Ion:107 Resp: 228691
Ion Ratio Lower Upper
107 100
109 92.2 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2716
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

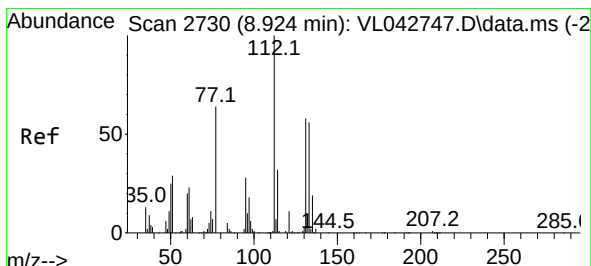
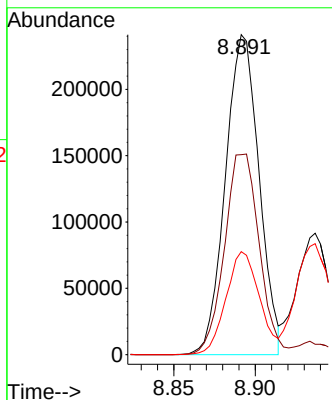
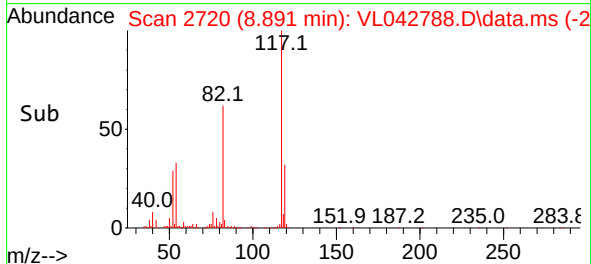
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



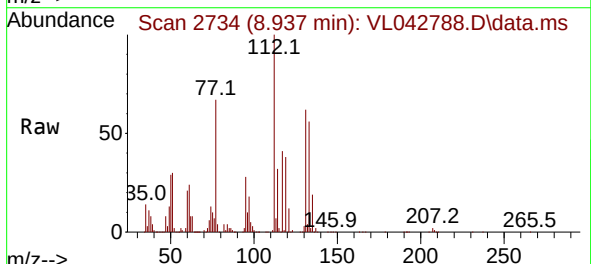
Tgt Ion:117 Resp: 34590
Ion Ratio Lower Upper
117 100
82 68.7 53.3 79.9
119 31.5 25.8 38.6

Manual Integrations
APPROVED

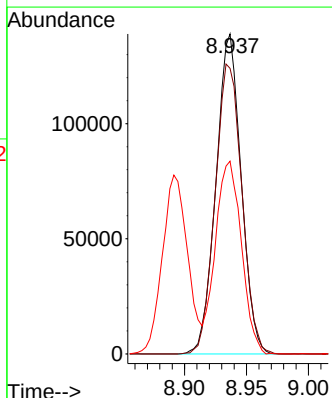
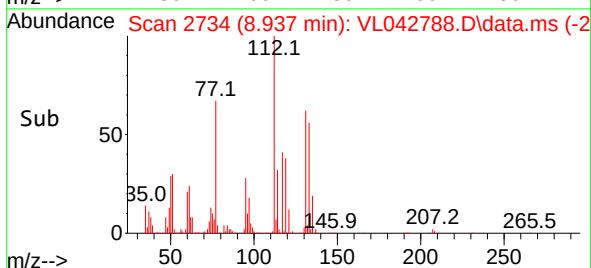
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

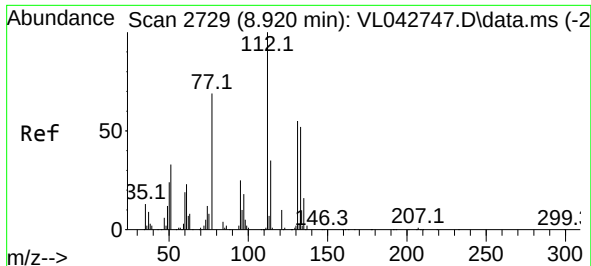


#56
1,1,1,2-Tetrachloroethane
Concen: 10.944 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



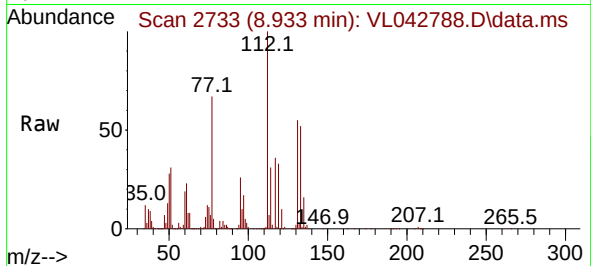
Tgt Ion:131 Resp: 196819
Ion Ratio Lower Upper
131 100
133 96.1 76.8 115.2
119 63.5 49.7 74.5





#57
Chlorobenzene
Concen: 10.455 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

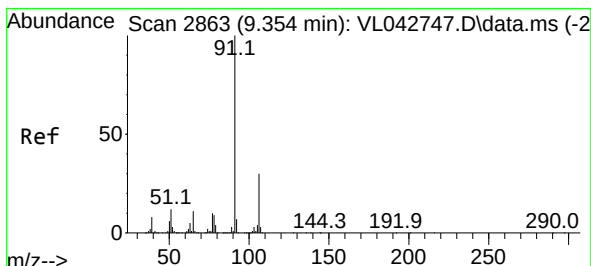
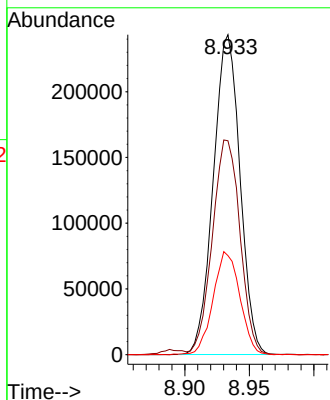
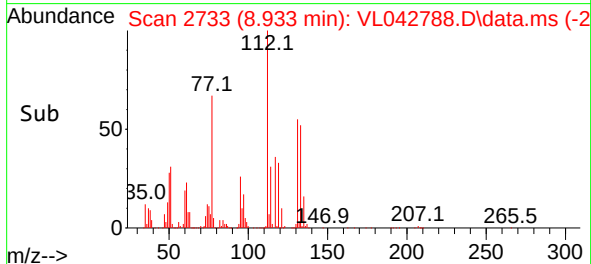
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 349998
Ion Ratio Lower Upper
112 100
77 66.8 56.4 84.6
114 30.9 31.2 38.2

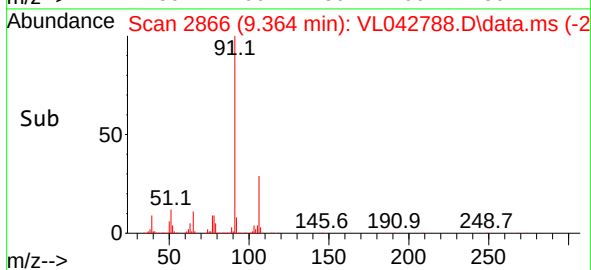
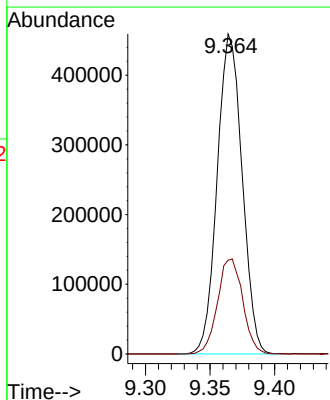
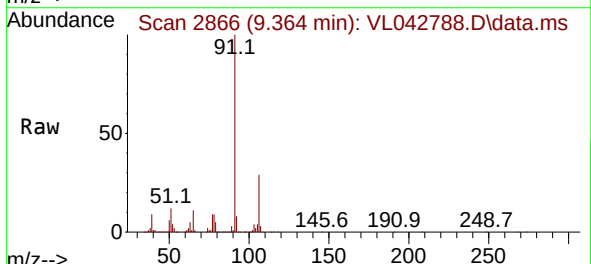
Manual Integrations
APPROVED

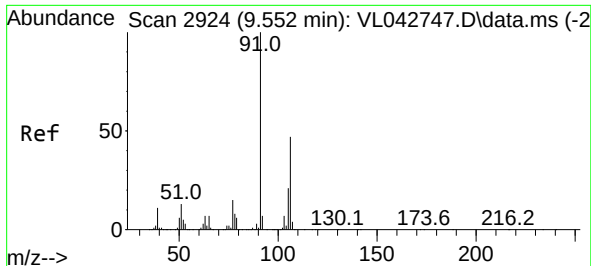
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#58
Ethyl Benzene
Concen: 11.272 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

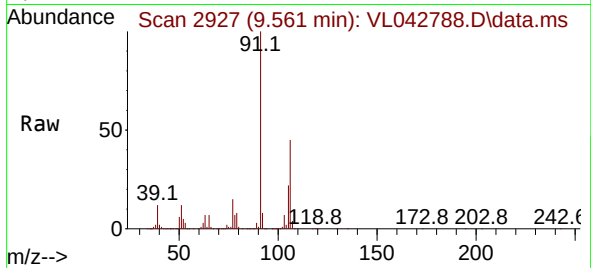
Tgt Ion: 91 Resp: 615736
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.6





#59
m/p-Xylene
Concen: 23.053 ppbv m
RT: 9.561 min Scan# 2924
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

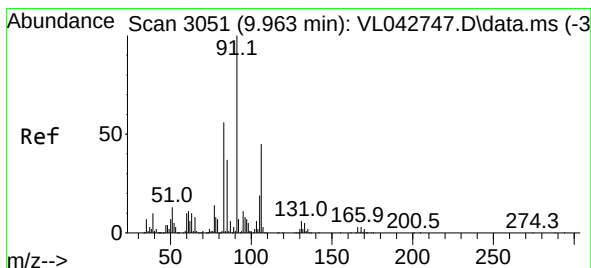
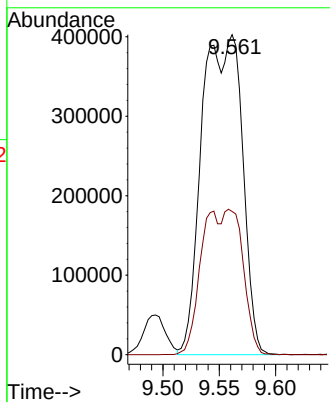
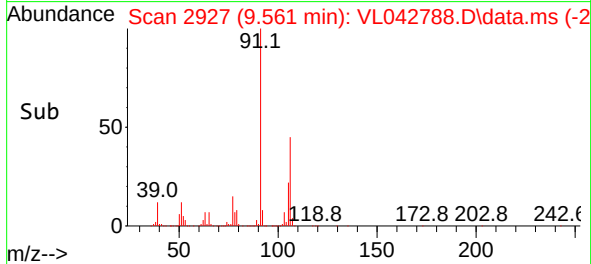
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



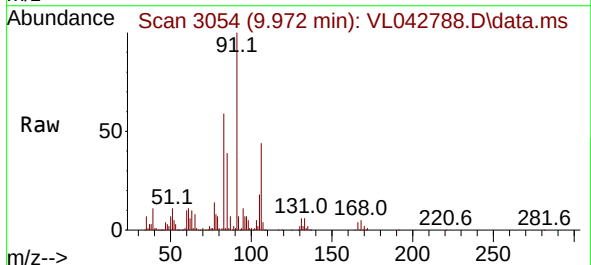
Tgt Ion: 91 Resp: 1006369
Ion Ratio Lower Upper
91 100
106 46.2 37.4 56.2

Manual Integrations
APPROVED

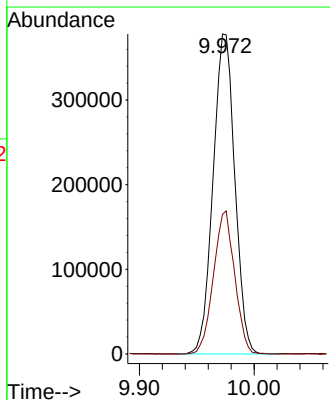
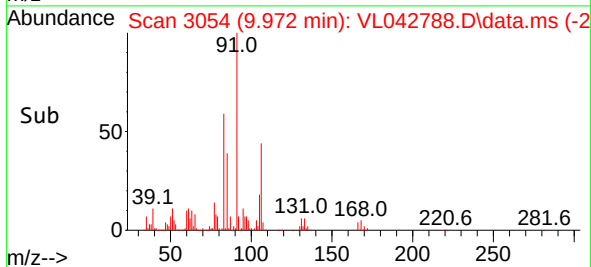
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

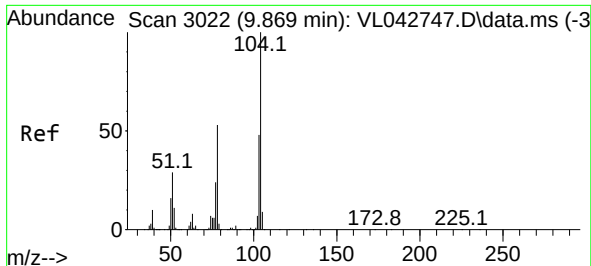


#60
o-Xylene
Concen: 11.414 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion: 91 Resp: 497901
Ion Ratio Lower Upper
91 100
106 43.7 22.0 66.0





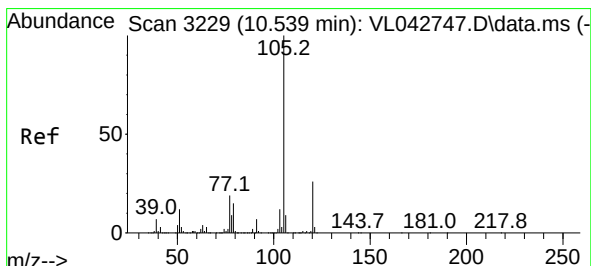
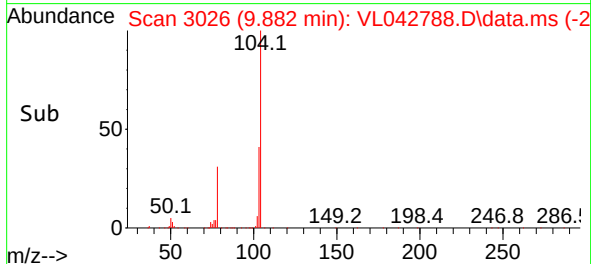
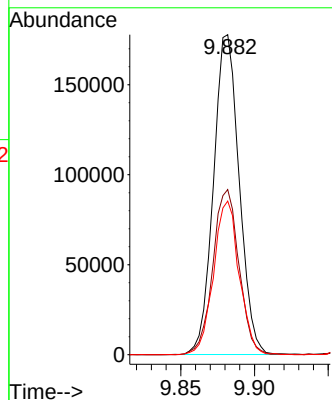
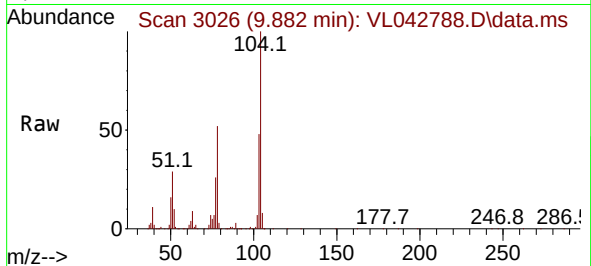
#61
Styrene
Concen: 11.742 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 215469
Ion Ratio Lower Upper
104 100
78 52.5 41.5 62.3
103 47.9 37.5 56.3

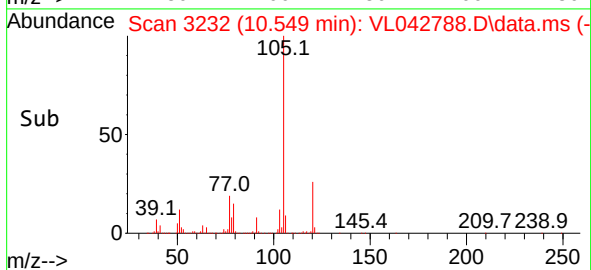
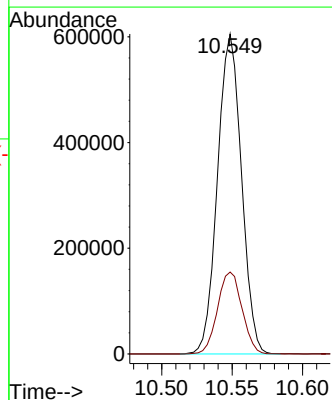
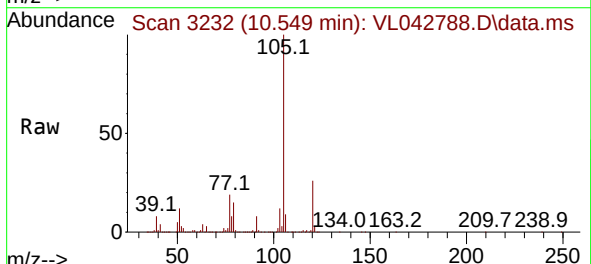
Manual Integrations
APPROVED

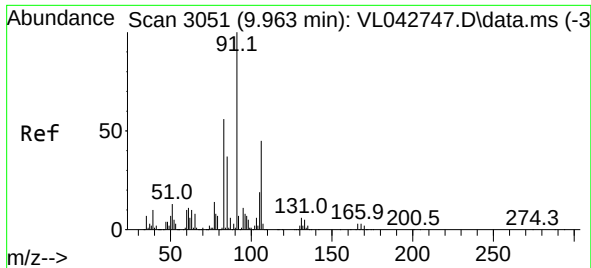
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#62
Isopropylbenzene
Concen: 11.132 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

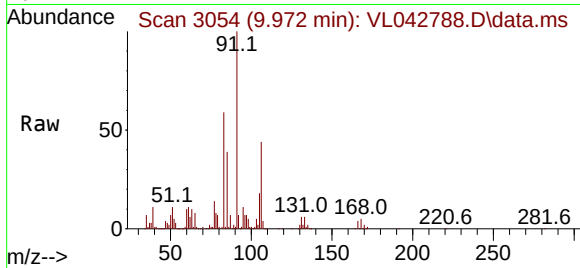
Tgt Ion:105 Resp: 716277
Ion Ratio Lower Upper
105 100
120 26.1 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 10.413 ppbv
RT: 9.972 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

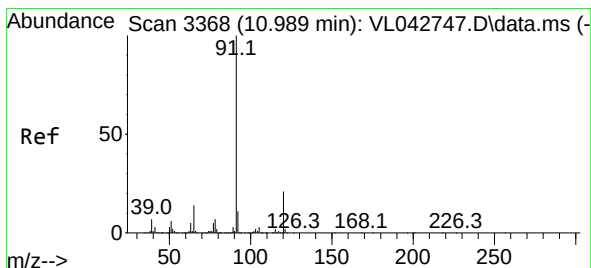
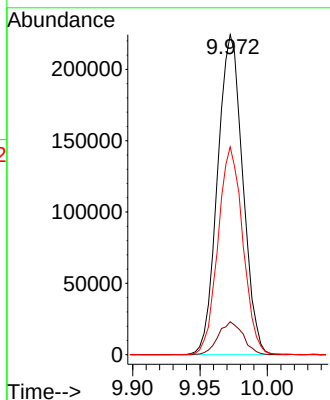
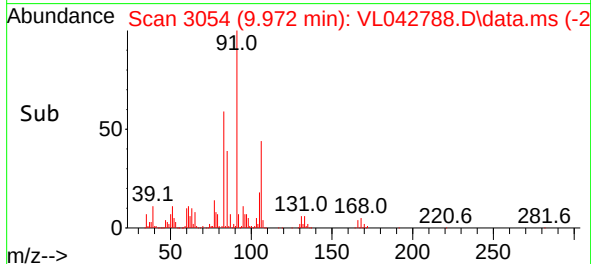
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



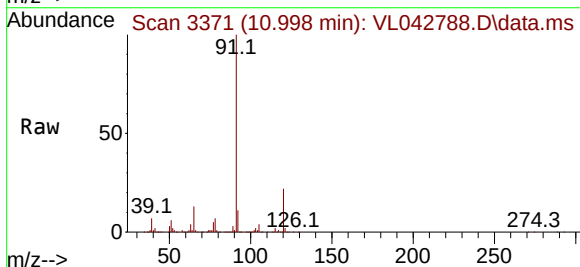
Tgt Ion: 83 Resp: 291620
Ion Ratio Lower Upper
83 100
131 10.2 5.0 15.0
85 64.1 32.6 97.7

Manual Integrations
APPROVED

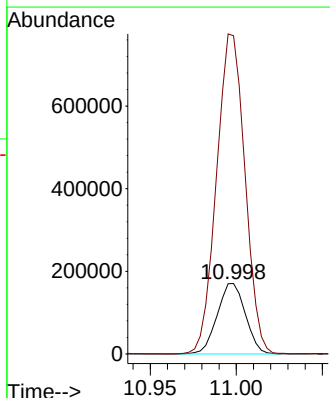
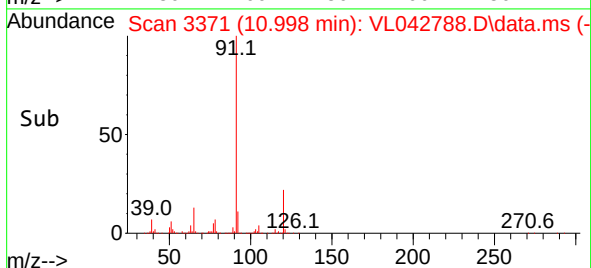
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

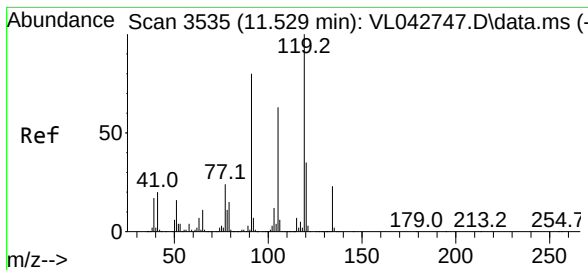


#64
n-propylbenzene
Concen: 11.563 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion:120 Resp: 193965
Ion Ratio Lower Upper
120 100
91 459.7 372.7 559.1





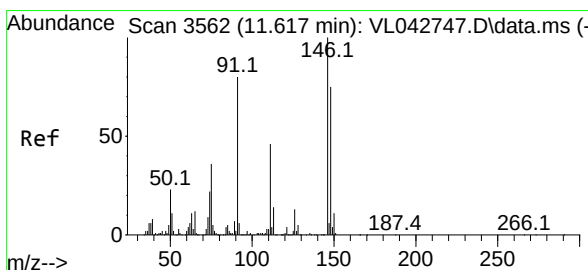
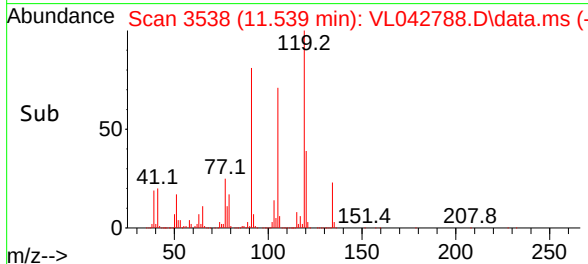
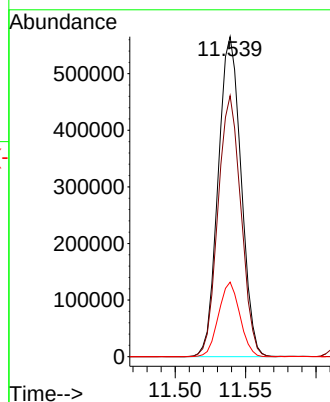
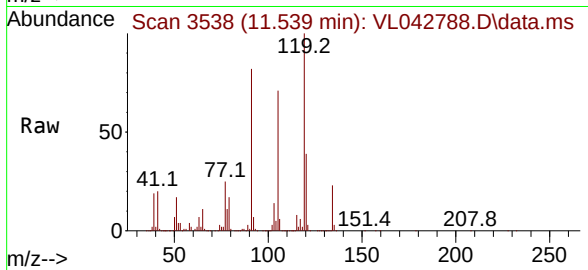
#65
tert-Butylbenzene
Concen: 11.215 ppbv
RT: 11.539 min Scan# 3535
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 641028
Ion Ratio Lower Upper
119 100
91 81.6 64.0 96.0
134 21.6 17.3 25.9

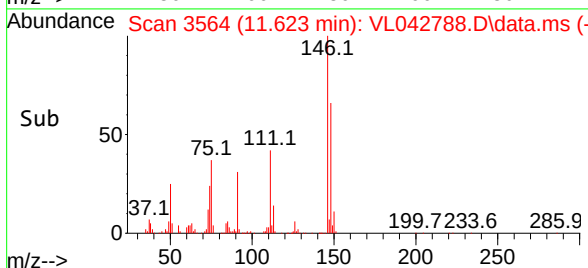
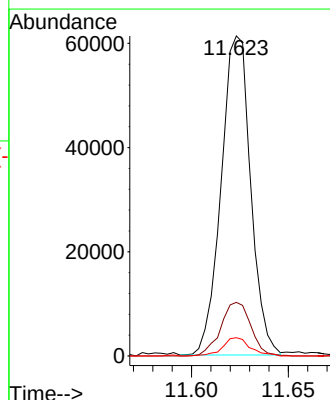
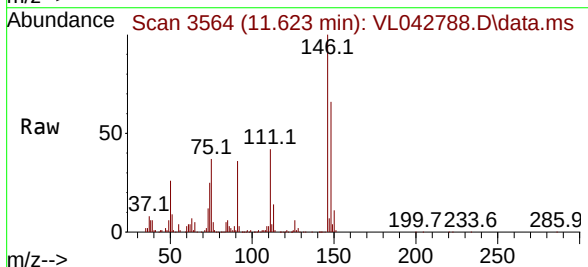
Manual Integrations
APPROVED

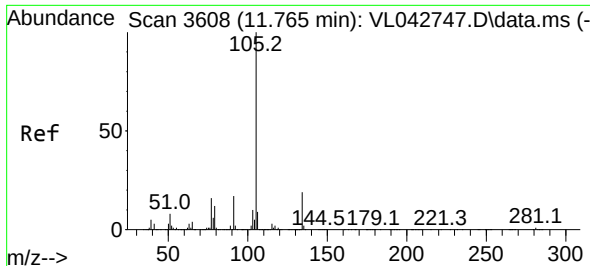
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#66
Benzyl Chloride
Concen: 13.854 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

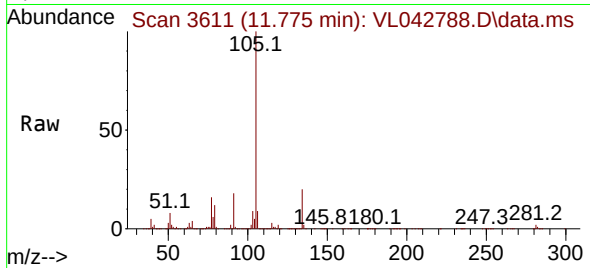
Tgt Ion: 91 Resp: 65004
Ion Ratio Lower Upper
91 100
126 17.1 14.4 21.6
128 5.4 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 11.144 ppbv
 RT: 11.775 min Scan# 30
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

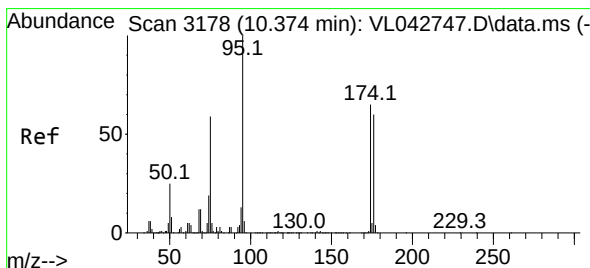
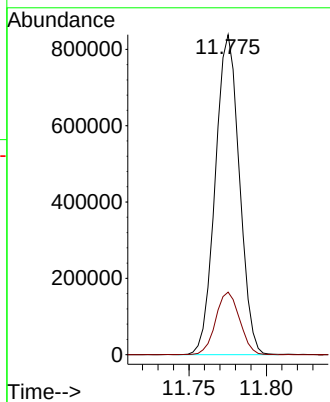
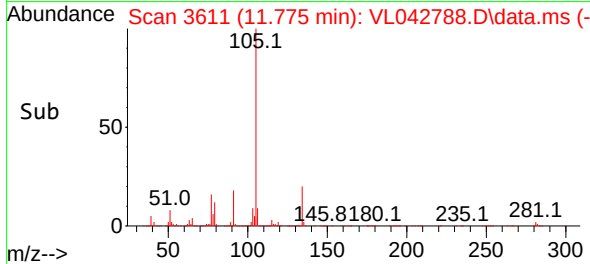
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



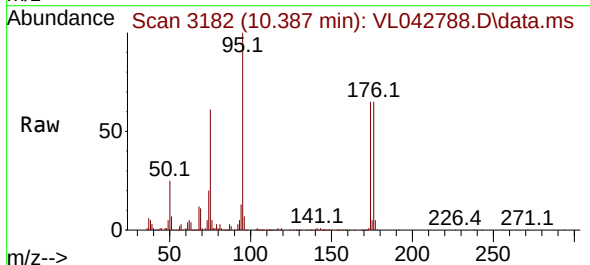
Tgt Ion:105 Resp: 90593
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.5 23.3

Manual Integrations
 APPROVED

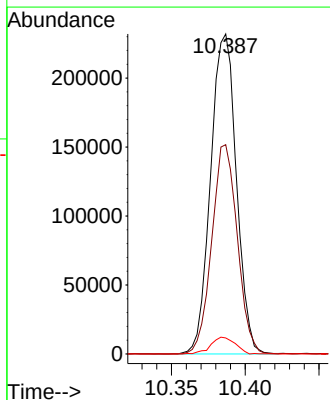
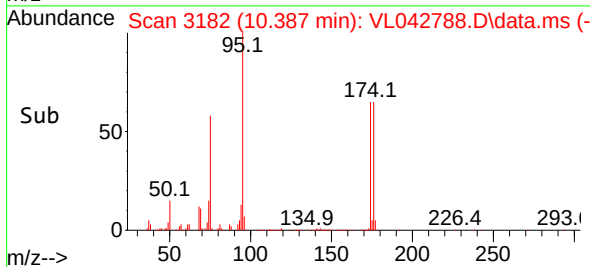
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

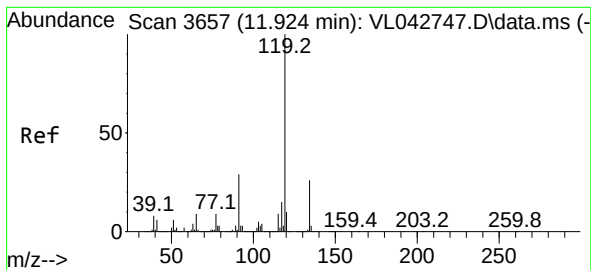


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.295 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.013 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



Tgt Ion: 95 Resp: 282020
 Ion Ratio Lower Upper
 95 100
 174 65.0 53.8 80.6
 175 5.0 4.0 6.0





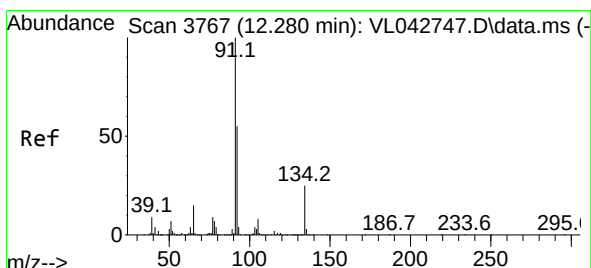
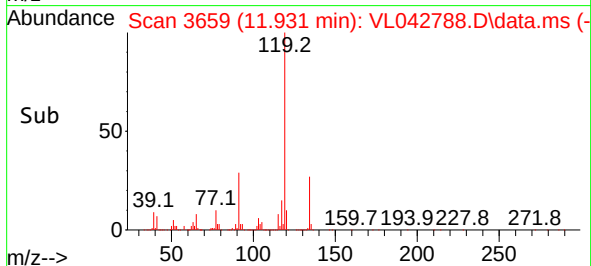
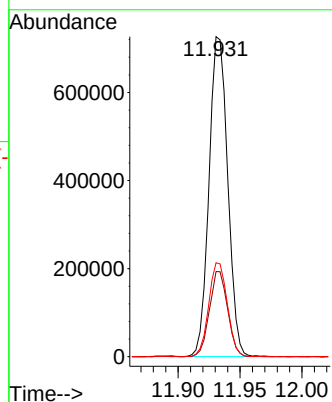
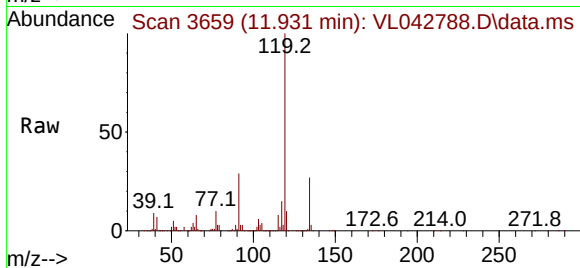
#69
p-Isopropyltoluene
Concen: 11.517 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 76342
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 29.4 23.2 34.8

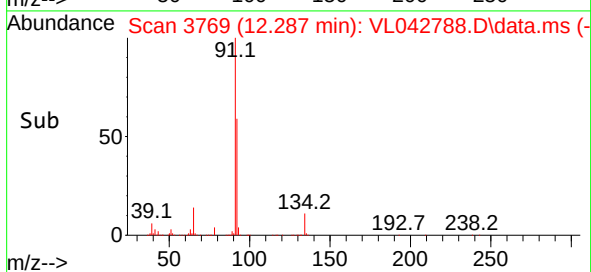
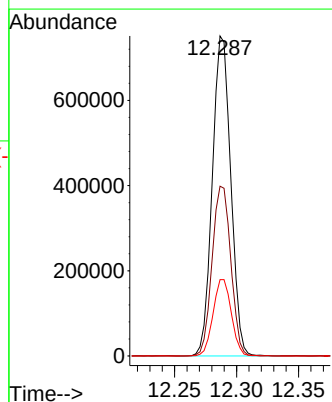
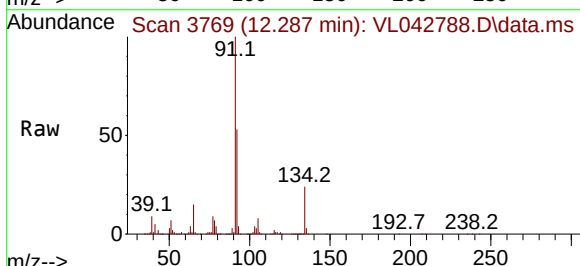
Manual Integrations
APPROVED

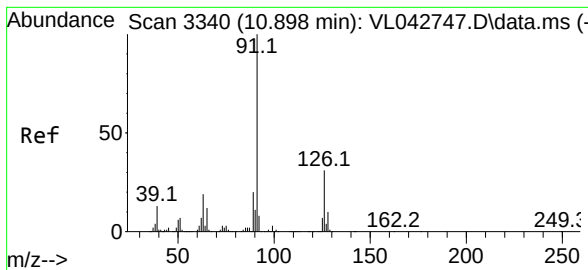
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#70
n-Butylbenzene
Concen: 12.171 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

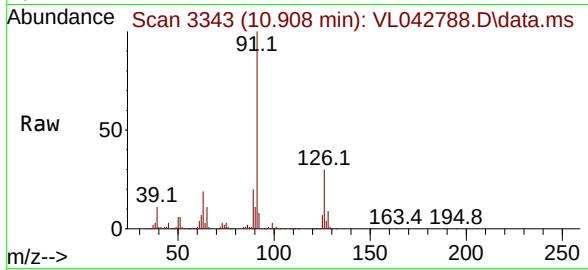
Tgt Ion: 91 Resp: 779301
Ion Ratio Lower Upper
91 100
92 53.9 43.4 65.2
134 23.7 19.6 29.4





#71
2-Chlorotoluene
Concen: 11.203 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

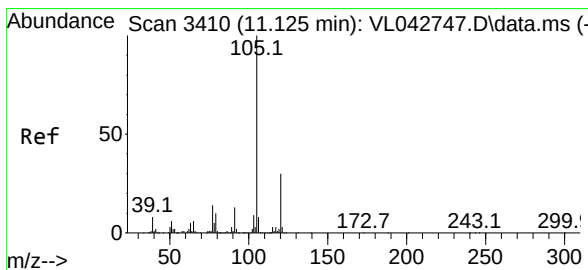
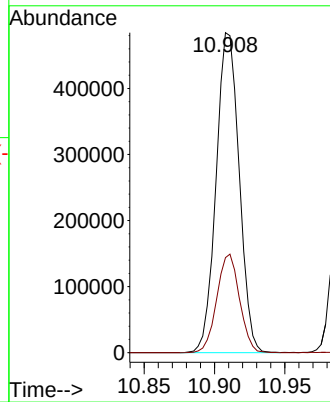
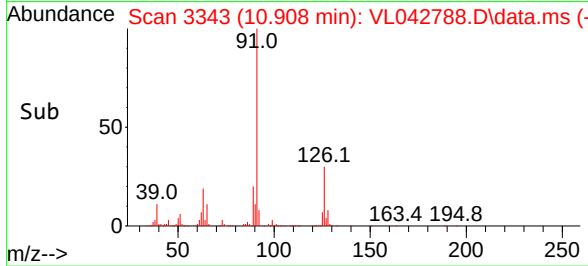
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



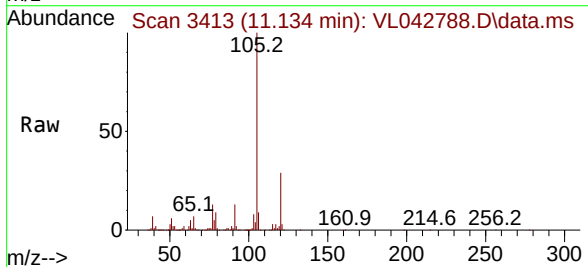
Tgt Ion: 91 Resp: 55272
Ion Ratio Lower Upper
91 100
126 30.3 12.0 48.2

Manual Integrations
APPROVED

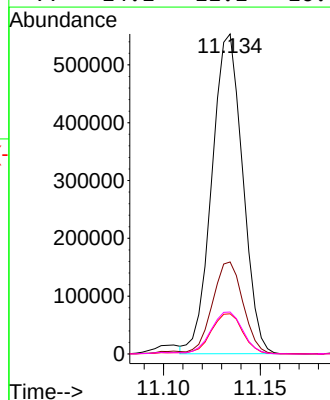
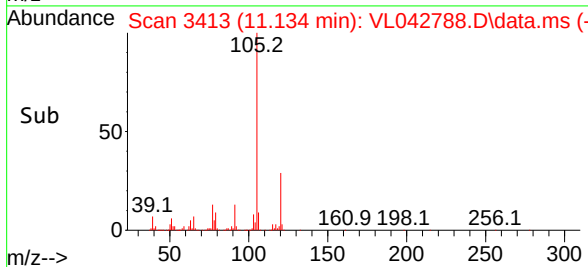
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

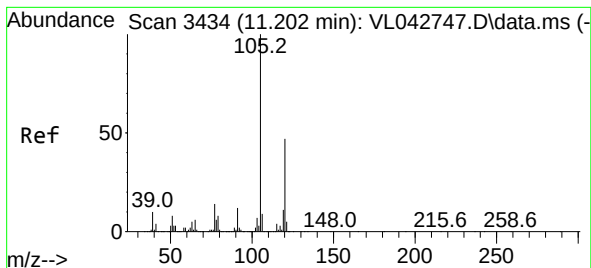


#72
4-Ethyltoluene
Concen: 11.745 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion:105 Resp: 611893
Ion Ratio Lower Upper
105 100
120 29.3 24.4 36.6
91 13.1 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.791 ppbv

RT: 11.212 min Scan# 3434

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 505734

Ion Ratio Lower Upper

105 100

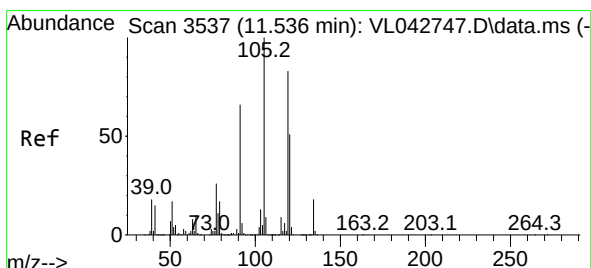
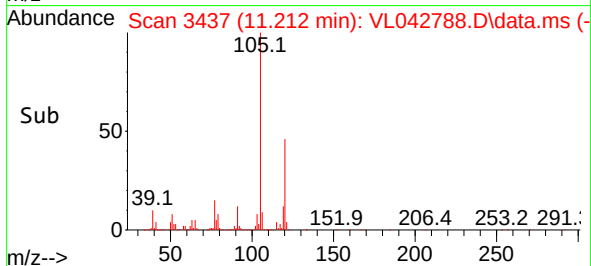
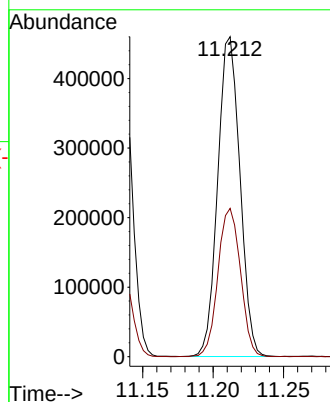
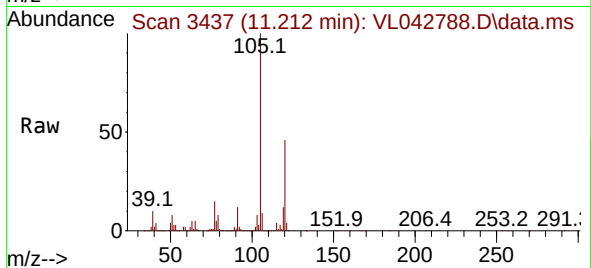
120 46.3 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.030 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:105 Resp: 562952

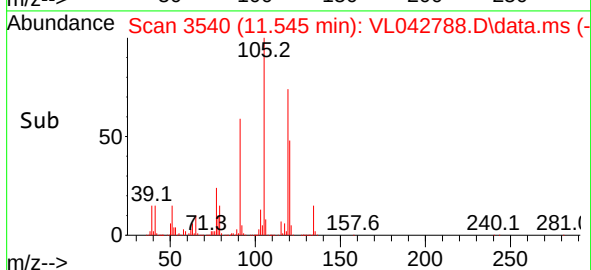
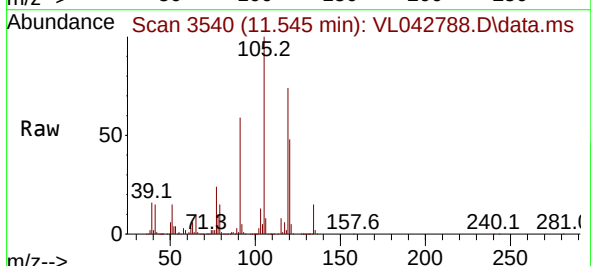
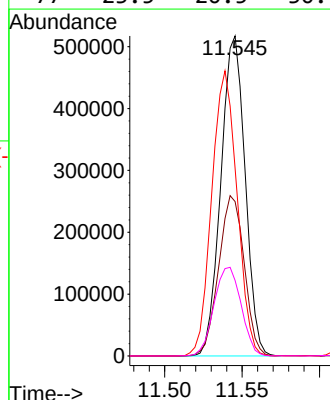
Ion Ratio Lower Upper

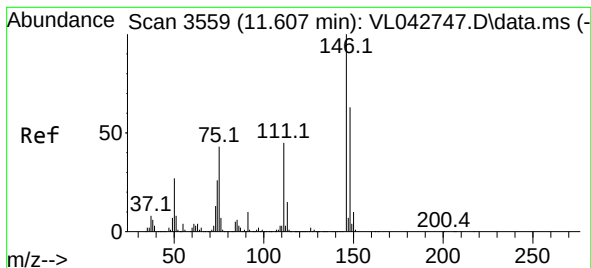
105 100

120 48.3 40.8 61.2

91 58.6 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 11.049 ppbv

RT: 11.613 min Scan# 3559

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 36246

Ion Ratio Lower Upper

146 100

111 45.0 22.7 68.0

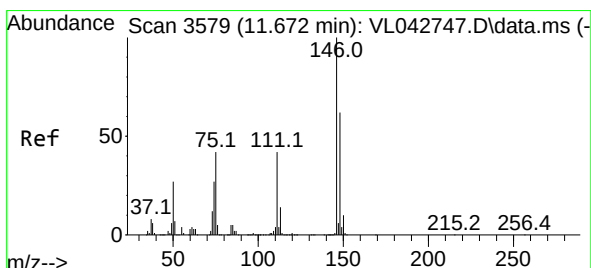
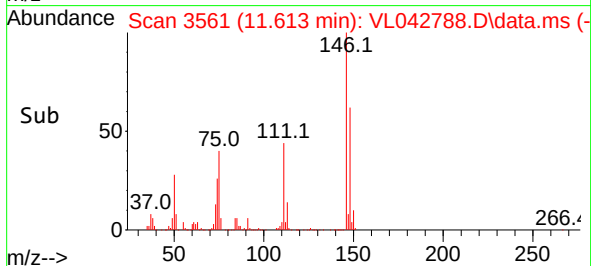
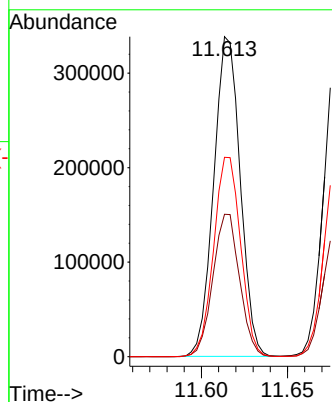
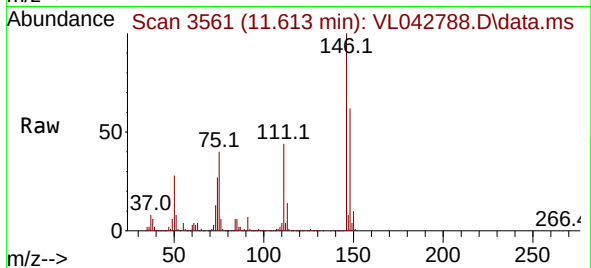
148 63.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#76

1,4-Dichlorobenzene

Concen: 11.209 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

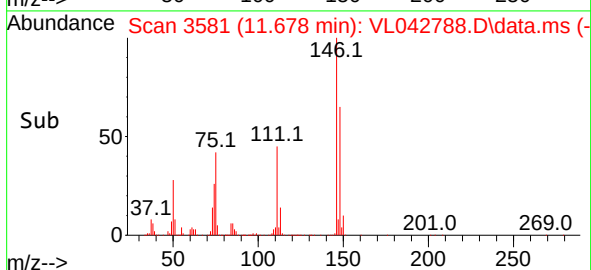
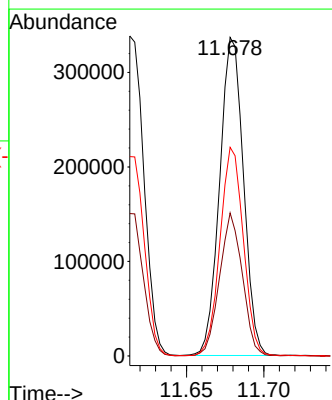
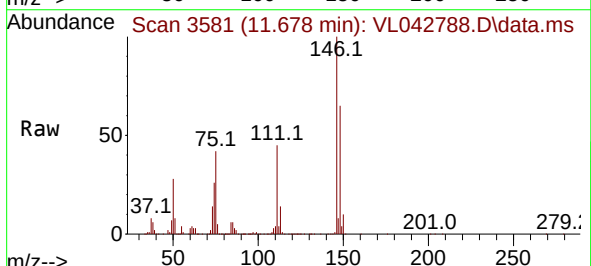
Tgt Ion:146 Resp: 359833

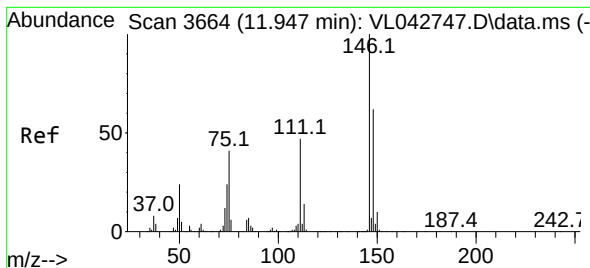
Ion Ratio Lower Upper

146 100

111 43.2 21.4 64.2

148 64.8 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.812 ppbv

RT: 11.953 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 348624

Ion Ratio Lower Upper

146 100

111 45.9 23.7 71.1

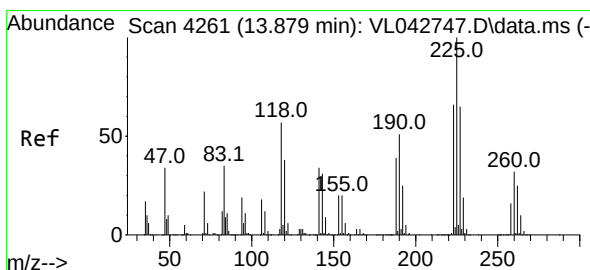
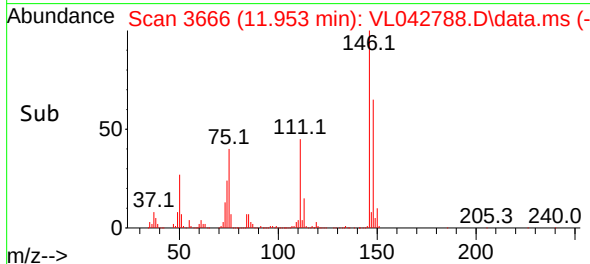
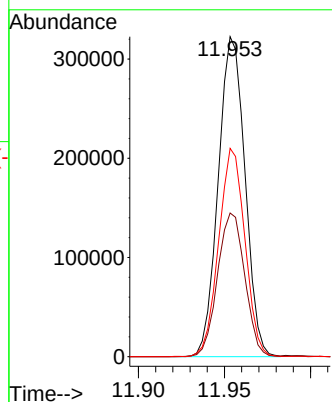
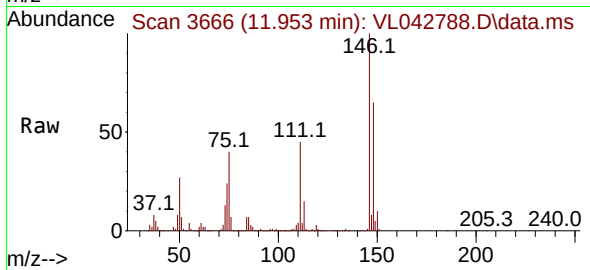
148 64.1 32.6 97.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.673 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

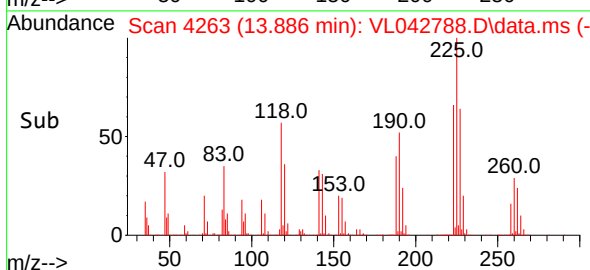
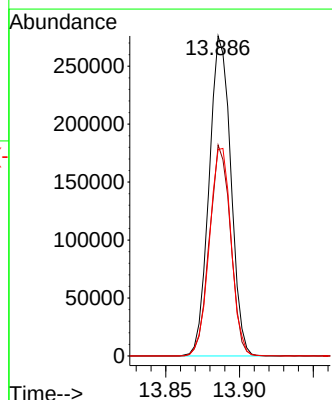
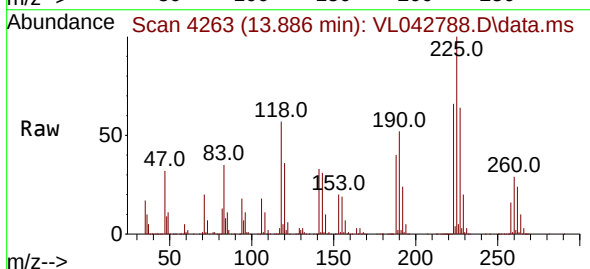
Tgt Ion:225 Resp: 282288

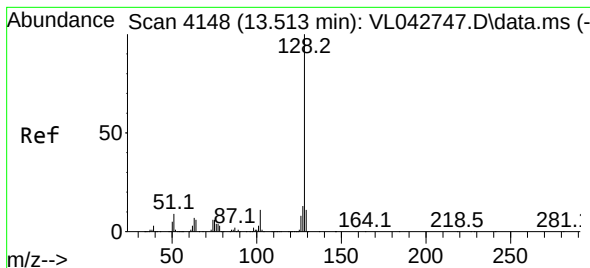
Ion Ratio Lower Upper

225 100

223 64.2 50.7 76.1

227 65.1 50.5 75.7





#79

Naphthalene

Concen: 11.014 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:128 Resp: 561584

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

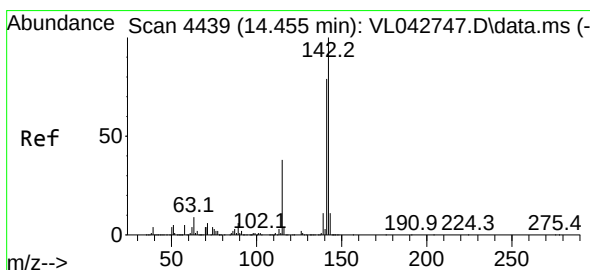
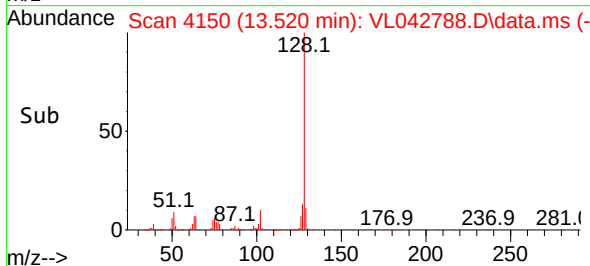
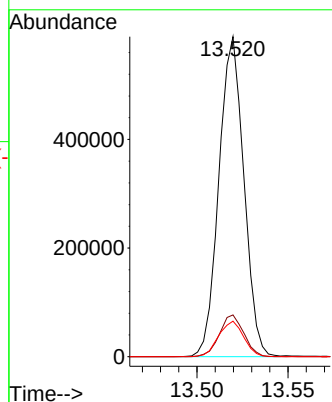
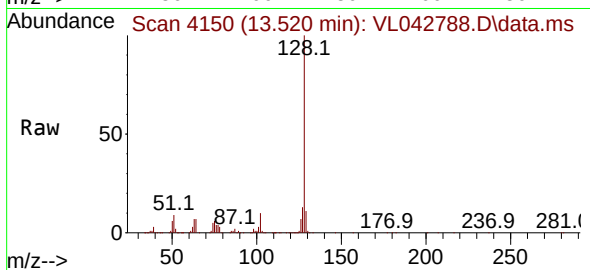
129 11.1 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#80

Naphthalene,2-methyl-

Concen: 9.837 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

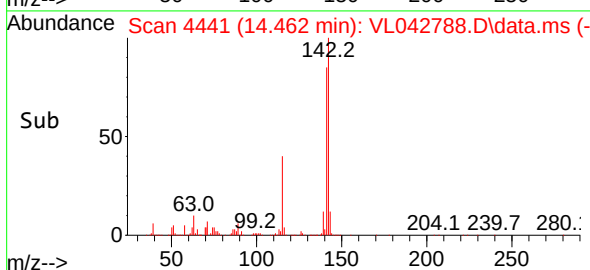
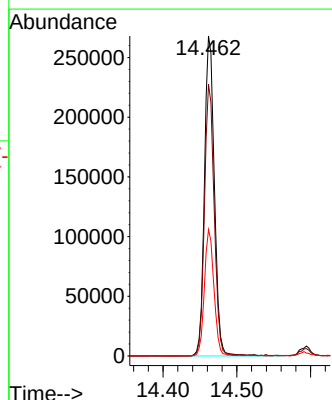
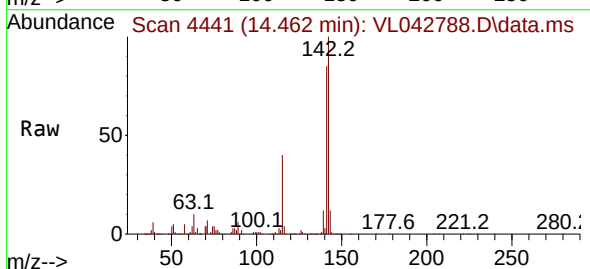
Tgt Ion:142 Resp: 249243

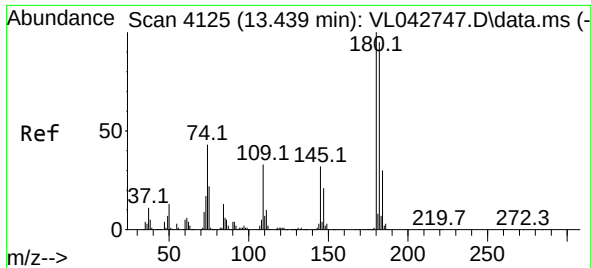
Ion Ratio Lower Upper

142 100

141 83.7 65.8 98.8

115 38.5 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.987 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:180 Resp: 31483

Ion Ratio Lower Upper

180 100

182 94.7 76.2 114.2

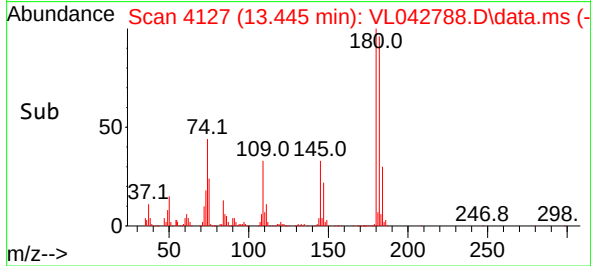
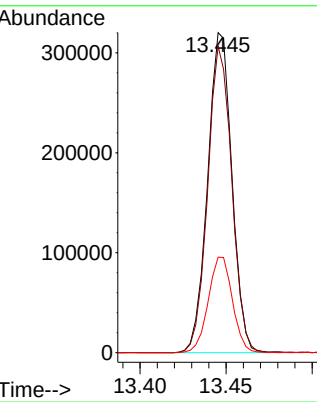
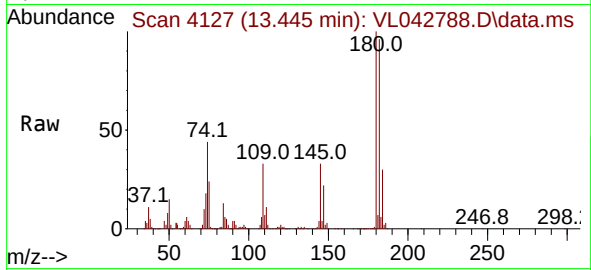
184 29.7 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 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	88	0.00
2 T	Dichlorodifluoromethane	1.322	1.259	4.8	92	0.00
3	Chlorodifluoromethane	1.722	1.763	-2.4	95	0.00
4	Chloromethane	0.535	0.500	6.5	90	0.00
5 T	Vinyl Chloride	0.528	0.464	12.1	99	0.00
6 T	Bromomethane	0.204	0.201	1.5	99	0.00
7	Chloroethane	0.204	0.187	8.3	93	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.041	4.2	93	0.00
9 T	Propene	0.626	0.681	-8.8	101	0.00
10 T	Heptane	1.688	1.848	-9.5	99	0.02
11 T	Trichlorofluoromethane	1.363	1.244	8.7	89	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	0.994	4.1	93	0.00
13	Ethanol	0.083	0.052	37.3#	90	0.00
14 T	Bromoethene	0.367	0.353	3.8	92	0.00
15 T	Acetone	1.381	1.094	20.8	96	0.00
16 T	1,3-Butadiene	0.589	0.555	5.8	96	0.00
17	tert-Butyl alcohol	1.245	1.150	7.6	87	0.00
18 T	1,1-Dichloroethene	0.468	0.430	8.1	93	0.00
19 T	Isopropyl Alcohol	0.734	0.677	7.8	90	0.00
20 T	Methylene Chloride	0.435	0.373	14.3	97	0.00
21 T	Allyl Chloride	0.851	0.845	0.7	93	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.484	3.8	92	0.00
23 T	Vinyl Acetate	1.674	2.050	-22.5	105	0.00
24 T	1,1-Dichloroethane	1.033	0.981	5.0	91	0.00
25 T	Ethyl Acetate	3.056	3.271	-7.0	97	0.00
26 T	Hexane	1.341	1.394	-4.0	95	0.00
27 T	Carbon Disulfide	1.148	1.189	-3.6	96	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.632	0.2	100	0.00
29 T	Chloroform	2.072	2.165	-4.5	99	0.00
30 T	Cyclohexane	1.137	1.182	-4.0	92	0.01
31 T	cis-1,2-Dichloroethene	1.378	1.412	-2.5	95	0.00
32 T	1,1,1-Trichloroethane	2.158	2.126	1.5	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.01
34 T	2-Butanone	0.708	0.760	-7.3	97	0.00
35 T	Carbon Tetrachloride	0.743	0.793	-6.7	96	0.01
36 T	Benzene	0.948	1.000	-5.5	94	0.00
37 T	1,2-Dichloroethane	0.571	0.605	-6.0	95	0.00
38 T	Trichloroethene	0.455	0.455	0.0	94	0.02
39 T	1,2-Dichloropropane	0.350	0.367	-4.9	96	0.01
40 T	1,4-Dioxane	0.163	0.164	-0.6	98	0.02
41 T	Tetrahydrofuran	0.360	0.413	-14.7	97	0.00
42 T	Bromodichloromethane	0.744	0.827	-11.2	97	0.02
43	Methyl Methacrylate	0.337	0.385	-14.2	94	0.02
44 T	2,2,4-Trimethylpentane	1.545	1.721	-11.4	98	0.01
45 T	t-1,3-Dichloropropene	0.378	0.430	-13.8	91	0.02
46 T	cis-1,3-Dichloropropene	0.479	0.555	-15.9	93	0.02
47 T	1,1,2-Trichloroethane	0.373	0.396	-6.2	97	0.02
48 T	Dibromochloromethane	0.592	0.672	-13.5	95	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 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	95	0.01
50 T	4-Methyl-2-Pentanone	0.912	1.013	-11.1	96	0.02
51 T	2-Hexanone	0.690	0.812	-17.7	95	0.02
52 T	Tetrachloroethene	0.393	0.366	6.9	91	0.00
53 T	Toluene	1.018	1.124	-10.4	93	0.02
54 T	1,2-Dibromoethane	0.527	0.584	-10.8	96	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.01
56	1,1,1,2-Tetrachloroethane	0.520	0.569	-9.4	96	0.01
57 T	Chlorobenzene	0.968	1.012	-4.5	94	0.01
58 T	Ethyl Benzene	1.579	1.780	-12.7	94	0.00
59 T	m/p-Xylene	1.262	1.455	-15.3	97	0.00
60 T	o-Xylene	1.261	1.439	-14.1	96	0.00
61 T	Styrene	0.531	0.623	-17.3	91	0.01
62	Isopropylbenzene	1.860	2.071	-11.3	95	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.843	-4.1	100	0.00
64	n-propylbenzene	0.485	0.561	-15.7	98	0.00
65	tert-Butylbenzene	1.652	1.853	-12.2	95	0.00
66 T	Benzyl Chloride	0.136	0.188	-38.2#	97	0.00
67	sec-Butylbenzene	2.350	2.619	-11.4	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.815	-2.9	83	0.01
69	p-Isopropyltoluene	1.916	2.207	-15.2	94	0.00
70	n-Butylbenzene	1.851	2.253	-21.7	95	0.00
71	2-Chlorotoluene	1.426	1.598	-12.1	95	0.00
72 T	4-Ethyltoluene	1.506	1.769	-17.5	95	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.462	-17.9	94	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.627	-20.3	96	0.00
75 T	1,3-Dichlorobenzene	0.948	1.048	-10.5	97	0.00
76 T	1,4-Dichlorobenzene	0.928	1.040	-12.1	95	0.00
77 T	1,2-Dichlorobenzene	0.932	1.008	-8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.816	3.3	94	0.00
79 T	Naphthalene	0.958	1.624	-69.5#	94	0.00
80 T	Naphthalene,2-methyl-	0.326	0.721	-121.2#	86	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.910	-43.3#	93	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 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	88	0.00
2 T	Dichlorodifluoromethane	10.000	9.525	4.7	92	0.00
3	Chlorodifluoromethane	10.000	10.235	-2.3	95	0.00
4	Chloromethane	10.000	9.341	6.6	90	0.00
5 T	Vinyl Chloride	10.000	8.781	12.2	99	0.00
6 T	Bromomethane	10.000	9.837	1.6	99	0.00
7	Chloroethane	10.000	9.160	8.4	93	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.571	4.3	93	0.00
9 T	Propene	10.000	10.882	-8.8	101	0.00
10 T	Heptane	10.000	10.950	-9.5	99	0.02
11 T	Trichlorofluoromethane	10.000	9.128	8.7	89	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.600	4.0	93	0.00
13	Ethanol	10.000	10.150	-1.5	90	0.00
14 T	Bromoethene	10.000	9.639	3.6	92	0.00
15 T	Acetone	10.000	7.924	20.8	96	0.00
16 T	1,3-Butadiene	10.000	9.425	5.7	96	0.00
17	tert-Butyl alcohol	10.000	9.237	7.6	87	0.00
18 T	1,1-Dichloroethene	10.000	9.195	8.0	93	0.00
19 T	Isopropyl Alcohol	10.000	9.229	7.7	90	0.00
20 T	Methylene Chloride	10.000	8.566	14.3	97	0.00
21 T	Allyl Chloride	10.000	9.930	0.7	93	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.614	3.9	92	0.00
23 T	Vinyl Acetate	10.000	12.247	-22.5	105	0.00
24 T	1,1-Dichloroethane	10.000	9.496	5.0	91	0.00
25 T	Ethyl Acetate	10.000	10.702	-7.0	97	0.00
26 T	Hexane	10.000	10.399	-4.0	95	0.00
27 T	Carbon Disulfide	10.000	10.356	-3.6	96	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.982	0.2	100	0.00
29 T	Chloroform	10.000	10.451	-4.5	99	0.00
30 T	Cyclohexane	10.000	10.398	-4.0	92	0.01
31 T	cis-1,2-Dichloroethene	10.000	10.250	-2.5	95	0.00
32 T	1,1,1-Trichloroethane	10.000	9.850	1.5	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	85	0.01
34 T	2-Butanone	10.000	10.726	-7.3	97	0.00
35 T	Carbon Tetrachloride	10.000	10.672	-6.7	96	0.01
36 T	Benzene	10.000	10.548	-5.5	94	0.00
37 T	1,2-Dichloroethane	10.000	10.592	-5.9	95	0.00
38 T	Trichloroethene	10.000	9.991	0.1	94	0.02
39 T	1,2-Dichloropropane	10.000	10.505	-5.1	96	0.01
40 T	1,4-Dioxane	10.000	10.049	-0.5	98	0.02
41 T	Tetrahydrofuran	10.000	11.447	-14.5	97	0.00
42 T	Bromodichloromethane	10.000	11.125	-11.3	97	0.02
43	Methyl Methacrylate	10.000	11.418	-14.2	94	0.02
44 T	2,2,4-Trimethylpentane	10.000	11.142	-11.4	98	0.01
45 T	t-1,3-Dichloropropene	10.000	11.393	-13.9	91	0.02
46 T	cis-1,3-Dichloropropene	10.000	11.589	-15.9	93	0.02
47 T	1,1,2-Trichloroethane	10.000	10.618	-6.2	97	0.02
48 T	Dibromochloromethane	10.000	11.346	-13.5	95	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 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	11.551	-15.5	95	0.01
50 T	4-Methyl-2-Pentanone	10.000	11.101	-11.0	96	0.02
51 T	2-Hexanone	10.000	11.778	-17.8	95	0.02
52 T	Tetrachloroethene	10.000	9.319	6.8	91	0.00
53 T	Toluene	10.000	11.044	-10.4	93	0.02
54 T	1,2-Dibromoethane	10.000	11.078	-10.8	96	0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	82	0.01
56	1,1,1,2-Tetrachloroethane	10.000	10.944	-9.4	96	0.01
57 T	Chlorobenzene	10.000	10.455	-4.6	94	0.01
58 T	Ethyl Benzene	10.000	11.272	-12.7	94	0.00
59 T	m/p-Xylene	20.000	23.053	-15.3	97	0.00
60 T	o-Xylene	10.000	11.414	-14.1	96	0.00
61 T	Styrene	10.000	11.742	-17.4	91	0.01
62	Isopropylbenzene	10.000	11.132	-11.3	95	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.413	-4.1	100	0.00
64	n-propylbenzene	10.000	11.563	-15.6	98	0.00
65	tert-Butylbenzene	10.000	11.215	-12.1	95	0.00
66 T	Benzyl Chloride	10.000	13.854	-38.5#	97	0.00
67	sec-Butylbenzene	10.000	11.144	-11.4	96	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.295	-2.9	83	0.01
69	p-Isopropyltoluene	10.000	11.517	-15.2	94	0.00
70	n-Butylbenzene	10.000	12.171	-21.7	95	0.00
71	2-Chlorotoluene	10.000	11.203	-12.0	95	0.00
72 T	4-Ethyltoluene	10.000	11.745	-17.4	95	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.791	-17.9	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	12.030	-20.3	96	0.00
75 T	1,3-Dichlorobenzene	10.000	11.049	-10.5	97	0.00
76 T	1,4-Dichlorobenzene	10.000	11.209	-12.1	95	0.00
77 T	1,2-Dichlorobenzene	10.000	10.812	-8.1	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.673	3.3	94	0.00
79 T	Naphthalene	10.000	11.014	-10.1	94	0.00
80 T	Naphthalene,2-methyl-	10.000	9.837	1.6	86	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.987	-9.9	93	0.00

(#) = Out of Range

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



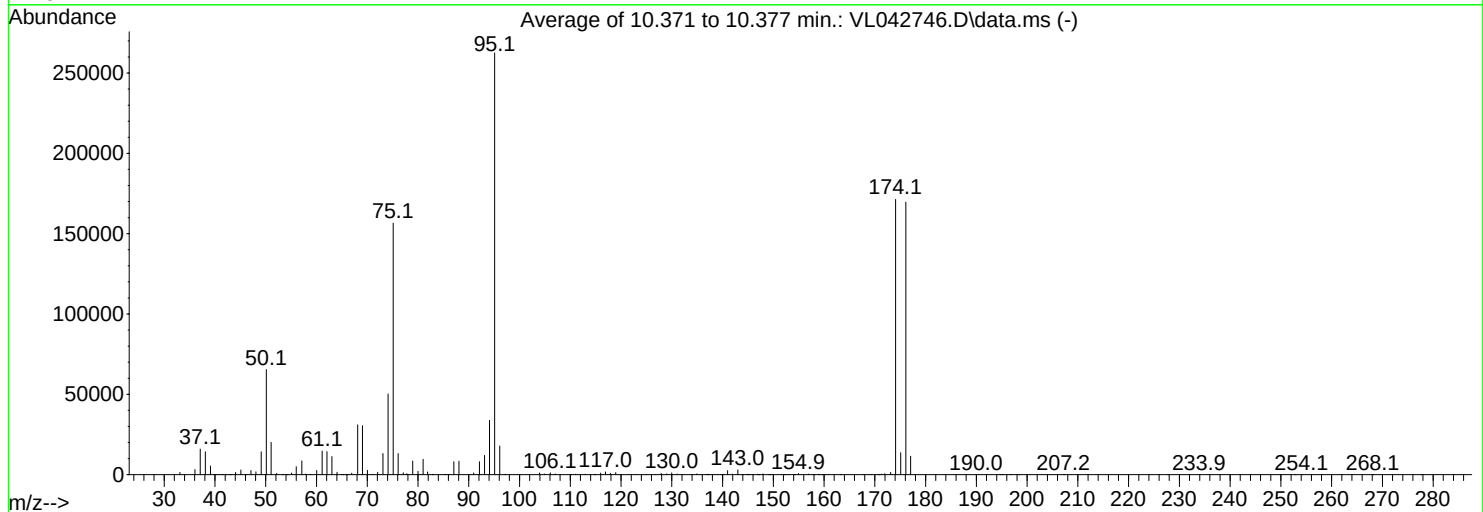
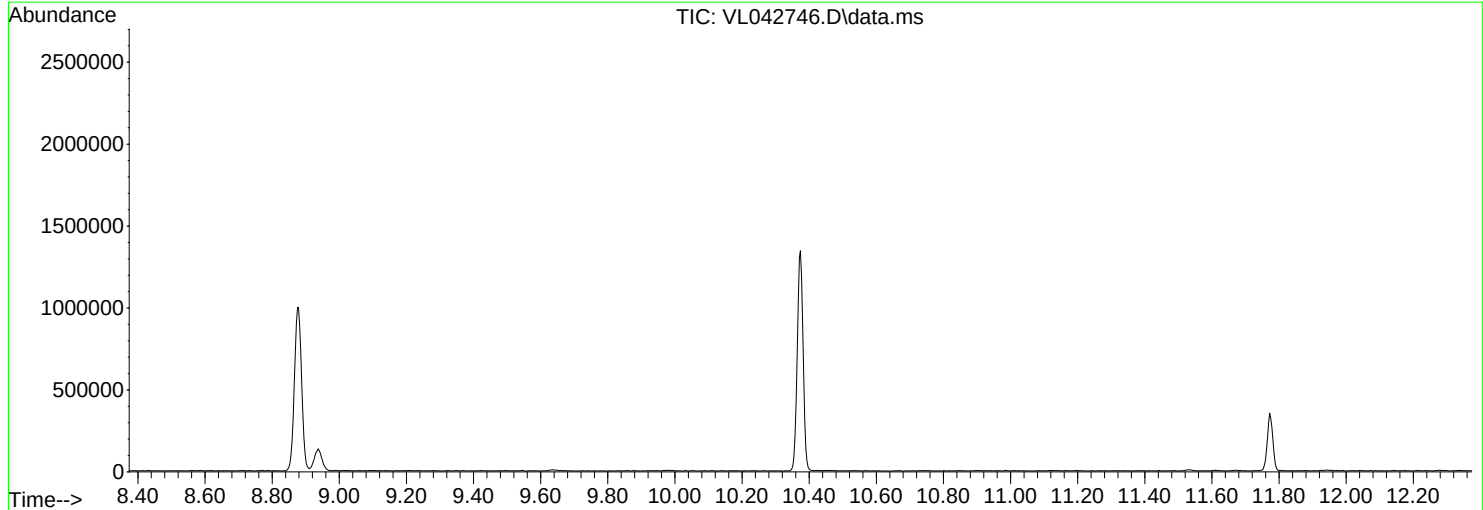
QC SAMPLE DATA

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

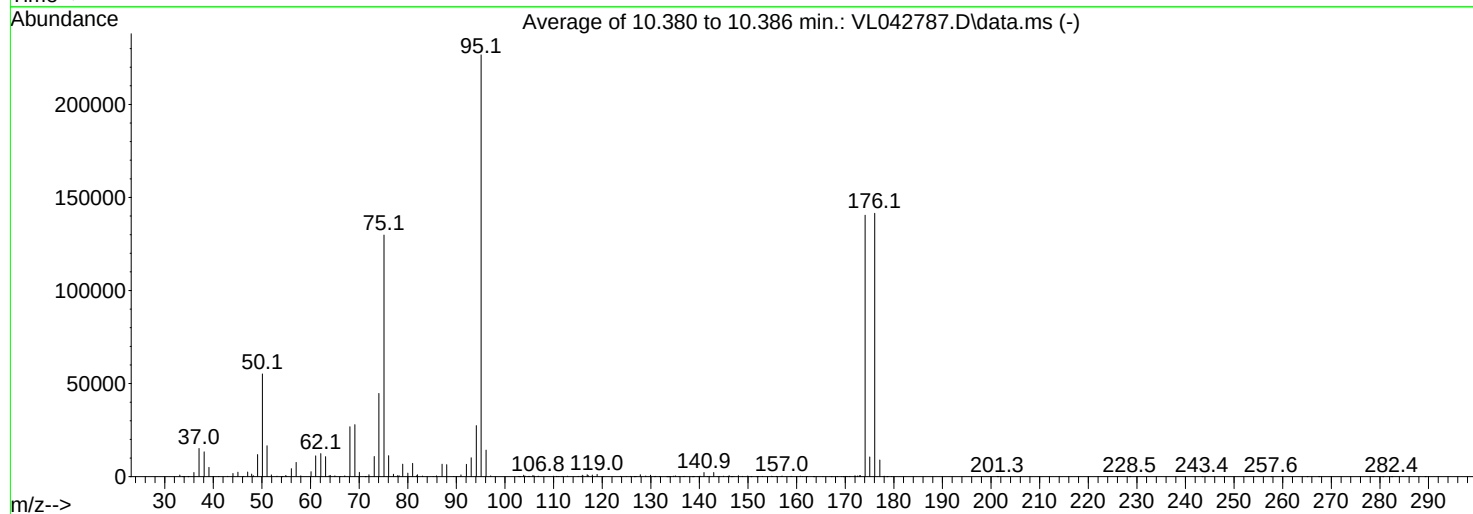
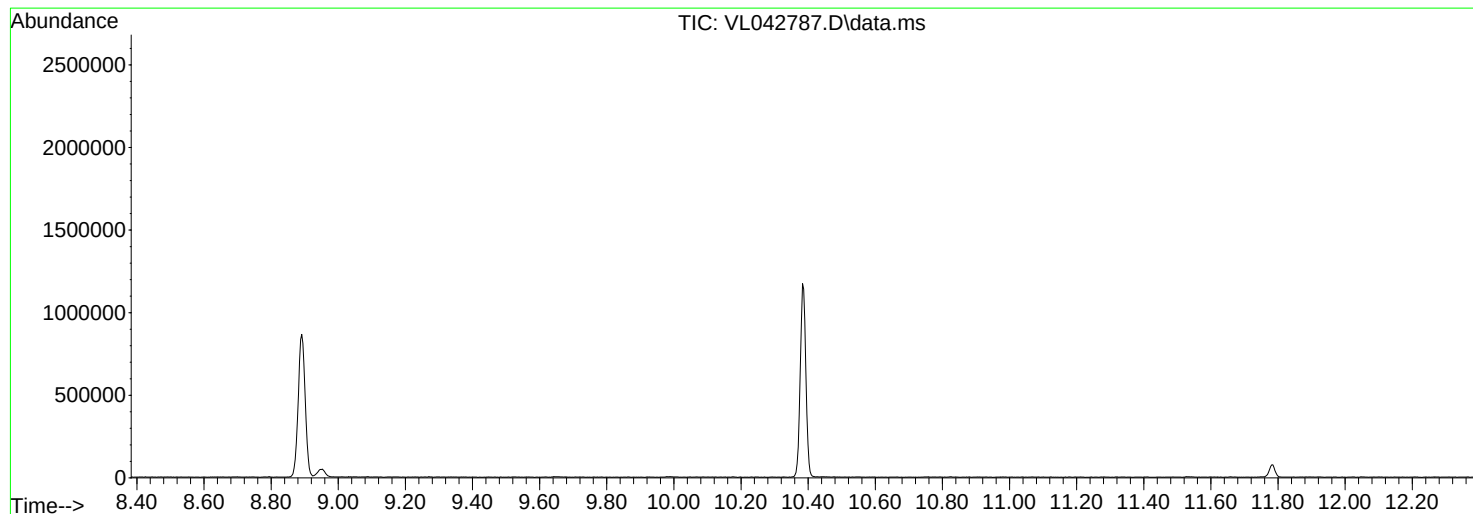
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	65392	PASS
75	95	30	66	59.7	156629	PASS
95	95	100	100	100.0	262571	PASS
96	95	5	9	6.8	17820	PASS
173	174	0.00	2	0.8	1428	PASS
174	95	50	120	65.3	171349	PASS
175	174	4	9	8.0	13693	PASS
176	174	93	101	99.0	169621	PASS
177	176	5	9	6.7	11431	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042787.D
Acq On : 31 Jul 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\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 3180, 3181, 3182; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.3	55155	PASS
75	95	30	66	57.3	129853	PASS
95	95	100	100	100.0	226624	PASS
96	95	5	9	6.3	14293	PASS
173	174	0.00	2	0.4	628	PASS
174	95	50	120	62.0	140456	PASS
175	174	4	9	7.5	10600	PASS
176	174	93	101	100.7	141471	PASS
177	176	5	9	6.3	8945	PASS

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042789.D	1		07/31/25 09:29	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.12	0.42	U	0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	0.12	0.48	U	0.48	1.98	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
593-60-2	Bromoethene	0.20	0.87	U	0.87	2.19	ug/m3
115-07-1	Propene	0.080	0.14	U	0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	0.23	0.57	U	0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	0.26	0.94	U	0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042789.D	1		07/31/25 09:29	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3
591-78-6	2-Hexanone	0.11	0.45	U	0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
1330-20-7	Total Xylenes	0.62	2.69	U	2.69	6.52	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	0.16	0.79	U	0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	0.090	0.47	U	0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042789.D	1		07/31/25 09:29	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	140000		2.793			
540-36-3	1,4-Difluorobenzene	390000		3.965			
3114-55-4	Chlorobenzene-d5	341000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042789.D
 Acq On : 31 Jul 2025 09:29
 Operator : SY/MD
 Sample : VL0731ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABL01

Quant Time: Aug 01 01:12:57 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	2.793	49	139538	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	390208	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	340795	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.386	95	265127	9.824	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%

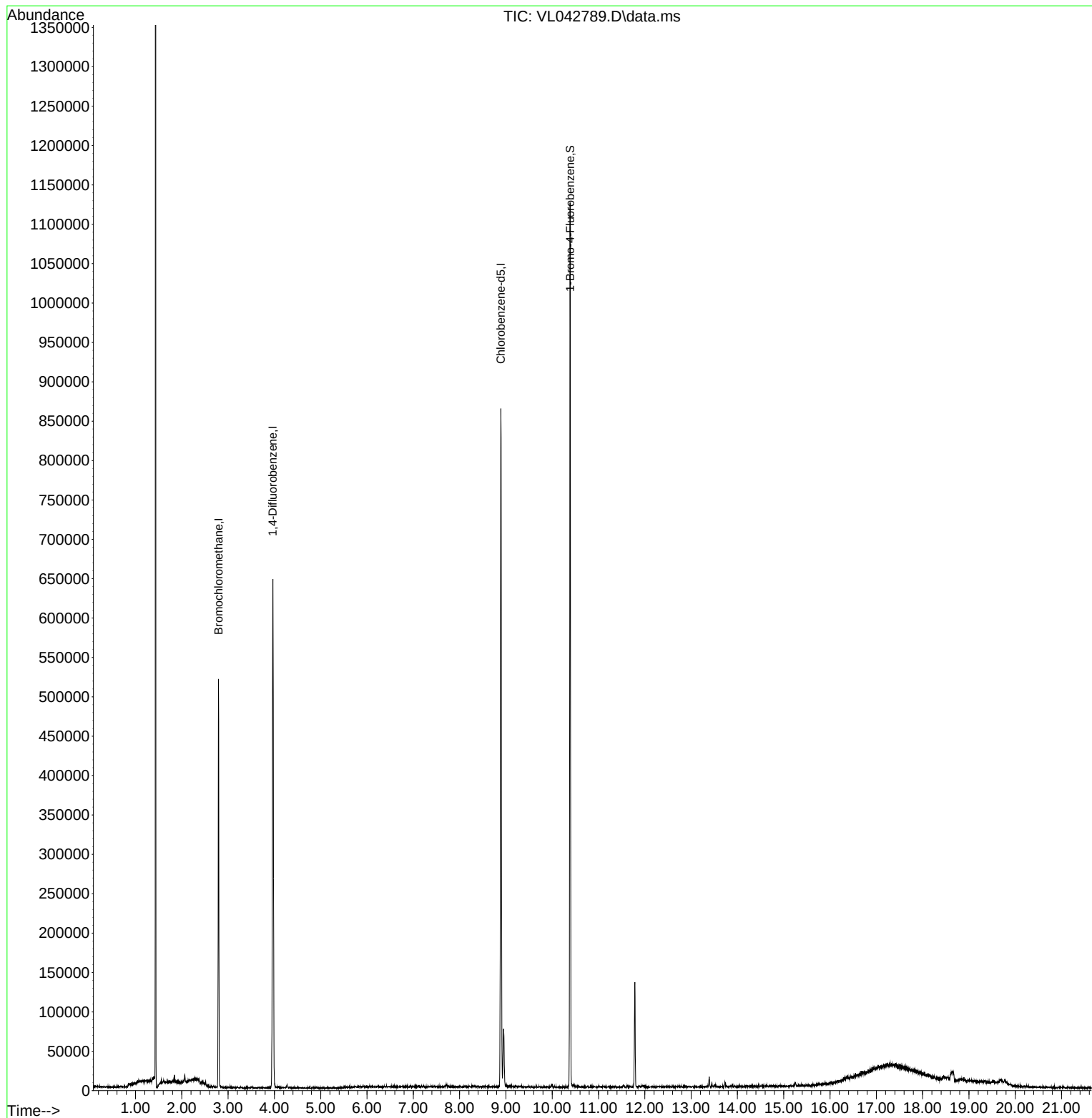
Target Compounds	Qvalue

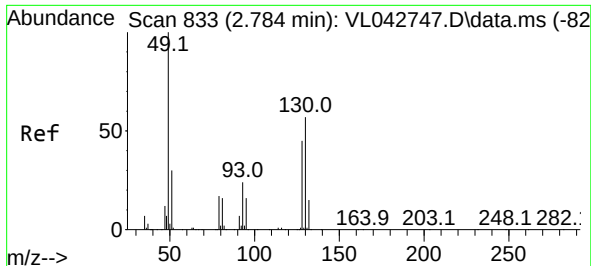
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042789.D
Acq On : 31 Jul 2025 09:29
Operator : SY/MD
Sample : VL0731ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

Quant Time: Aug 01 01:12:57 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

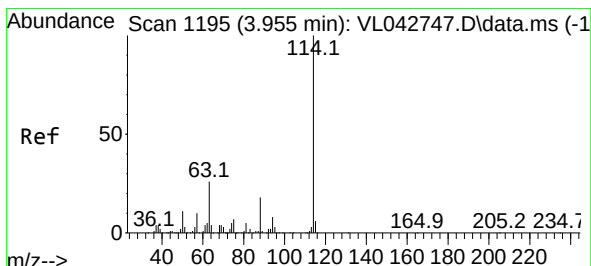
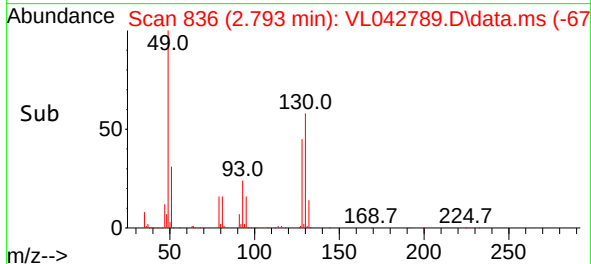
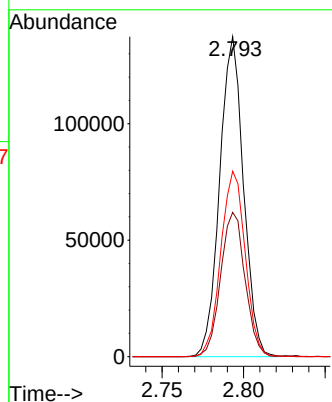
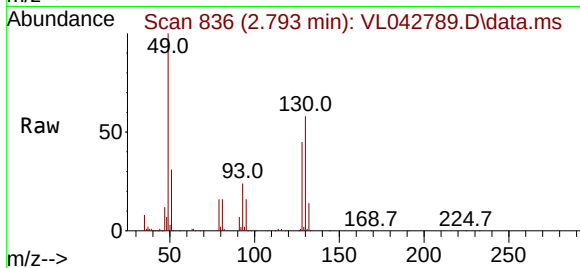




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

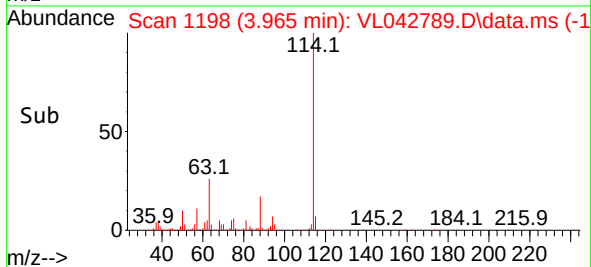
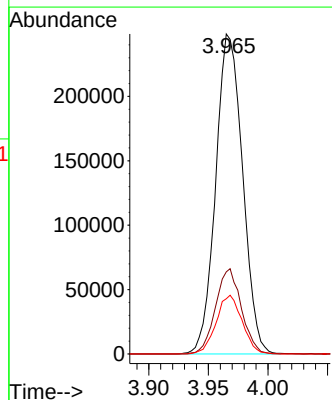
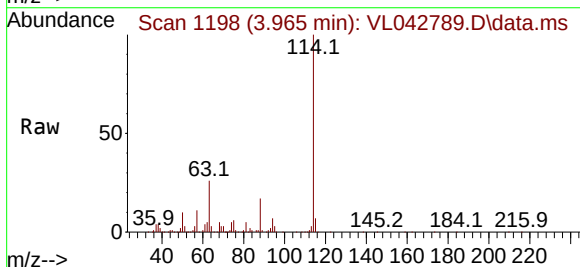
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

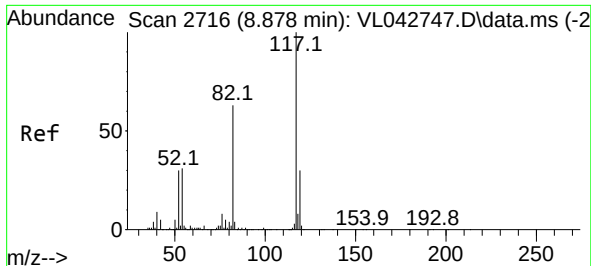
Tgt Ion: 49 Resp: 139538
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 59.4 30.3 90.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 114 Resp: 390208
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.7 14.0 21.0

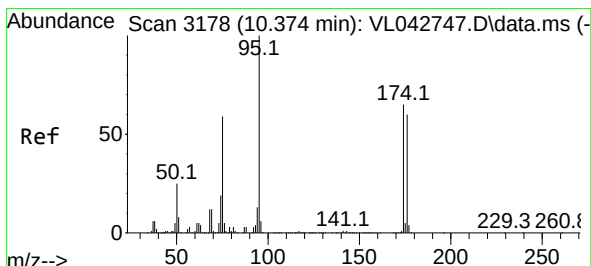
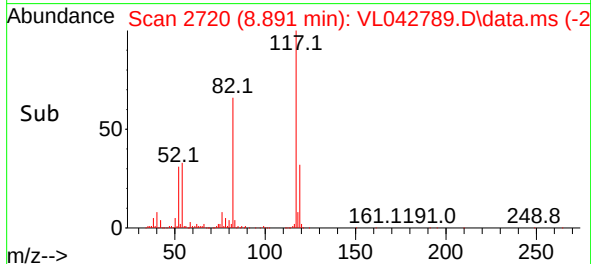
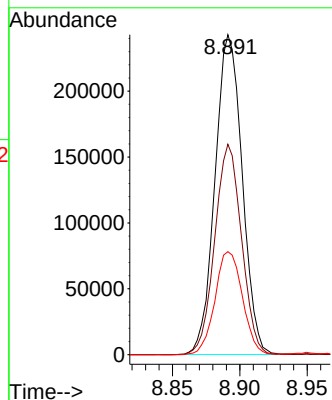
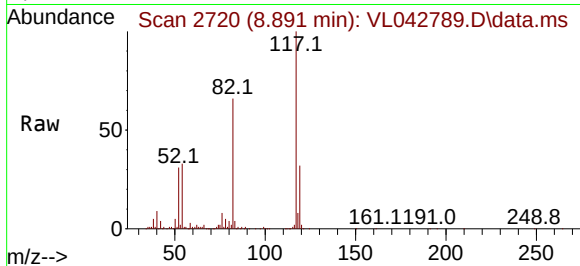




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

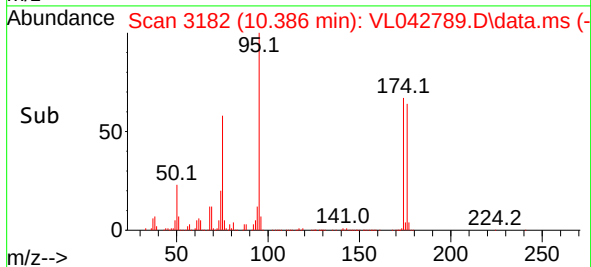
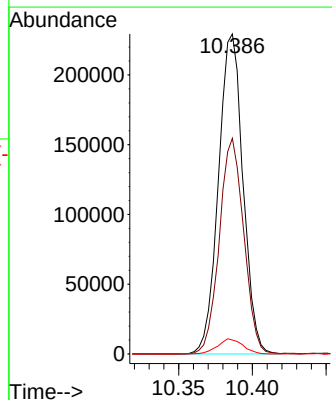
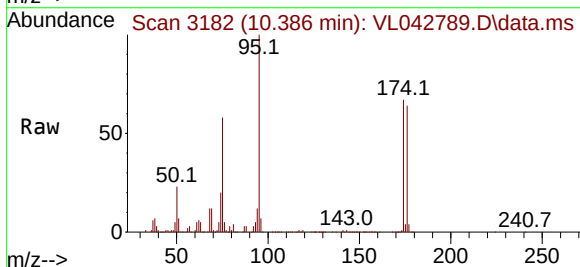
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABL01

Tgt Ion:117 Resp: 340795
Ion Ratio Lower Upper
117 100
82 65.0 53.3 79.9
119 32.6 25.8 38.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.824 ppbv
RT: 10.386 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 95 Resp: 265127
Ion Ratio Lower Upper
95 100
174 67.0 53.8 80.6
175 4.9 4.0 6.0



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042790.D	1		07/31/25 10:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	10.0	35.4		0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	9.60	47.5		0.54	2.47	ug/m3
64-17-5	Ethanol	8.70	16.4		0.60	0.94	ug/m3
74-87-3	Chloromethane	9.80	20.2		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.50	21.7		0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	10.5	41.7		0.48	1.98	ug/m3
74-83-9	Bromomethane	9.00	35.0		0.31	1.94	ug/m3
75-00-3	Chloroethane	8.80	23.2		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.4	33.6		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.30	52.3		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40	72.0		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.40	65.7		1.05	3.49	ug/m3
593-60-2	Bromoethene	9.50	41.5		0.87	2.19	ug/m3
115-07-1	Propene	9.90	17.0		0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	9.00	27.3		0.49	1.52	ug/m3
142-82-5	Heptane	10.7	43.9		0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.80	21.6		0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	9.00	35.7		0.59	1.98	ug/m3
67-64-1	Acetone	7.60	18.1		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	10.2	31.8		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.70	35.0		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	8.40	29.2		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.50	37.7		0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	11.5	41.4		0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	9.40	38.0		0.53	2.02	ug/m3
110-82-7	Cyclohexane	10.3	35.5		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.8	31.9		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.7	67.3		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.0	39.6		0.40	1.98	ug/m3
67-66-3	Chloroform	10.3	50.3		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.1	51.9		0.65	2.34	ug/m3
71-43-2	Benzene	10.5	33.5		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.6	42.9		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.80	52.7		0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042790.D	1		07/31/25 10:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	10.5	48.5		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	11.1	74.4		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.3	46.3		0.41	2.05	ug/m3
108-88-3	Toluene	11.0	41.5		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.2	50.9		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.1	50.4		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.6	57.8		0.44	2.73	ug/m3
591-78-6	2-Hexanone	11.9	48.7		0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	11.3	96.3		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.9	83.8		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	9.50	64.4		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.4	47.9		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	11.1	48.2		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	22.8	99.0		1.78	4.34	ug/m3
1330-20-7	Total Xylenes	34.0	148		2.69	6.52	ug/m3
95-47-6	o-Xylene	11.2	48.6		0.91	2.17	ug/m3
100-42-5	Styrene	11.4	48.5		0.68	2.13	ug/m3
75-25-2	Bromoform	11.4	118		0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	11.0	54.1		0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.2	70.0		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.2	58.0		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.9	58.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	12.1	59.5		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.9	65.5		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.3	67.9		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.8	64.9		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.6	78.7		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.50	101		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	9.00	19.9		0.11	1.11	ug/m3
91-20-3	Naphthalene	10.5	55.0		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.7	57.5		1.03	2.46	ug/m3
110-54-3	Hexane	10.3	36.3		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	9.80	30.7		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	8.60	31.0		0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	13.4	69.4		0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	11.5	47.1		0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042790.D	1		07/31/25 10:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.794			
540-36-3	1,4-Difluorobenzene	391000		3.965			
3114-55-4	Chlorobenzene-d5	350000		8.892			

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\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0731ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:13:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1 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	2.794	49	140975	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	391458	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	349880	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 284130 10.254 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	179092	9.608	ppbv	98
3) Chlorodifluoromethane	1.476	51	243995	10.049	ppbv	99
4) Chloromethane	1.535	50	73605	9.761	ppbv	95
5) Vinyl Chloride	1.583	62	63029	8.460	ppbv	92
6) Bromomethane	1.671	94	25942	9.007	ppbv	99
7) Chloroethane	1.706	64	25445	8.839	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	144815	9.447	ppbv	98
9) Propene	1.486	41	87288	9.891	ppbv	100
10) Heptane	4.991	43	255178	10.724	ppbv	98
11) Trichlorofluoromethane	1.881	101	178945	9.314	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	137912	9.446	ppbv	99
13) Ethanol	1.722	45	6331	8.701	ppbv	97
14) Bromoethene	1.784	108	49330	9.543	ppbv	99
15) Acetone	1.839	43	147760	7.590	ppbv	99
16) 1,3-Butadiene	1.612	39	74826	9.012	ppbv	98
17) tert-Butyl alcohol	2.043	59	157784	8.987	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59478	9.016	ppbv	96
19) Isopropyl Alcohol	1.887	45	91274	8.823	ppbv	94
20) Methylene Chloride	2.065	84	51356	8.372	ppbv	94
21) Allyl Chloride	2.098	41	117287	9.776	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	67541	9.517	ppbv	98
23) Vinyl Acetate	2.467	43	270452	11.460	ppbv	98
24) 1,1-Dichloroethane	2.412	63	137263	9.423	ppbv	98
25) Ethyl Acetate	2.839	43	453552	10.526	ppbv	99
26) Hexane	2.829	57	195021	10.318	ppbv	98
27) Carbon Disulfide	2.153	76	165318	10.216	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	86612	9.699	ppbv	97
29) Chloroform	2.852	83	300921	10.303	ppbv	97
30) Cyclohexane	3.865	84	165101	10.299	ppbv	97
31) cis-1,2-Dichloroethene	2.726	61	194661	10.022	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	293497	9.647	ppbv	98
34) 2-Butanone	2.561	43	298296	10.758	ppbv	100
35) Carbon Tetrachloride	3.771	117	312530	10.748	ppbv	99
36) Benzene	3.664	78	390877	10.536	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236656	10.589	ppbv	99
38) Trichloroethene	4.558	130	174246	9.776	ppbv	97
39) 1,2-Dichloropropane	4.321	63	144288	10.536	ppbv	98
40) 1,4-Dioxane	4.590	88	54856	8.594	ppbv #	89
41) Tetrahydrofuran	3.059	42	161537	11.448	ppbv	98
42) Bromodichloromethane	4.496	83	321891	11.059	ppbv #	99
43) Methyl Methacrylate	4.888	69	151803	11.512	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	672509	11.121	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	165606	11.199	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0731ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:13:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

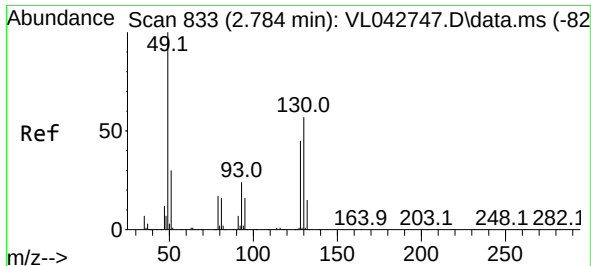
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 01 11:11:50 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

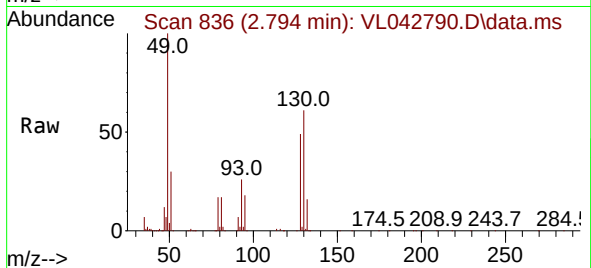
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	208804	11.143	ppbv	97
47) 1,1,2-Trichloroethane	6.594	97	154552	10.587	ppbv	97
48) Dibromochloromethane	7.399	129	261380	11.278	ppbv	99
49) Bromoform	9.494	173	231022	11.433	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	402543	11.270	ppbv	99
51) 2-Hexanone	7.445	43	321076	11.895	ppbv #	99
52) Tetrachloroethene	8.238	164	145761	9.479	ppbv	96
53) Toluene	6.943	91	439867	11.041	ppbv	100
54) 1,2-Dibromoethane	7.665	107	225399	10.928	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.934	131	198394	10.906	ppbv	100
57) Chlorobenzene	8.930	112	351678	10.386	ppbv #	96
58) Ethyl Benzene	9.364	91	614495	11.121	ppbv	99
59) m/p-Xylene	9.562	91	1004952m	22.758	ppbv	
60) o-Xylene	9.976	91	493686	11.188	ppbv	99
61) Styrene	9.879	104	211712	11.406	ppbv	99
62) Isopropylbenzene	10.549	105	716413	11.007	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	288264	10.176	ppbv	98
64) n-propylbenzene	10.995	120	190663	11.237	ppbv	100
65) tert-Butylbenzene	11.539	119	654563	11.322	ppbv	99
66) Benzyl Chloride	11.623	91	63429	13.365	ppbv	98
67) sec-Butylbenzene	11.775	105	909814	11.065	ppbv	99
69) p-Isopropyltoluene	11.931	119	774561	11.553	ppbv	100
70) n-Butylbenzene	12.287	91	785569	12.130	ppbv	99
71) 2-Chlorotoluene	10.908	91	556610	11.153	ppbv	99
72) 4-Ethyltoluene	11.131	105	618091	11.729	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	515043	11.871	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	570715	12.057	ppbv	93
75) 1,3-Dichlorobenzene	11.614	146	360095	10.852	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	366048	11.273	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	351242	10.770	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	281564	9.538	ppbv	99
79) Naphthalene	13.520	128	540121	10.494	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	221690	8.786	ppbv	100
81) 1,2,4-Trichlorobenzene	13.446	180	305698	10.565	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 833
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

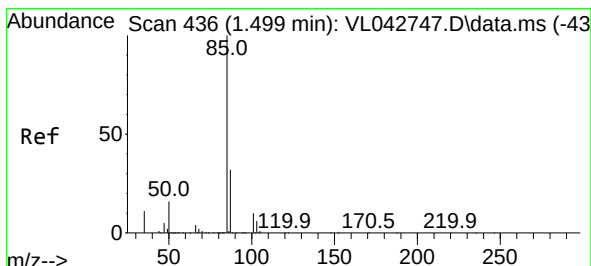
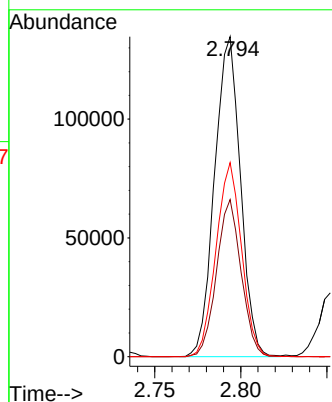
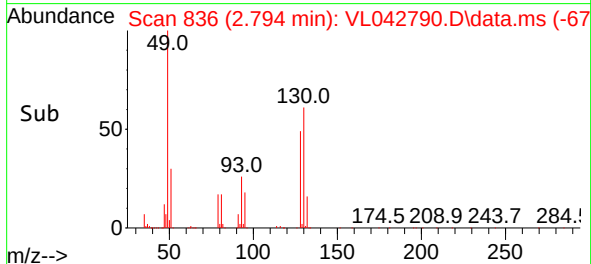
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion: 49 Resp: 140975
Ion Ratio Lower Upper
49 100
128 46.6 23.6 71.0
130 59.8 30.3 90.8

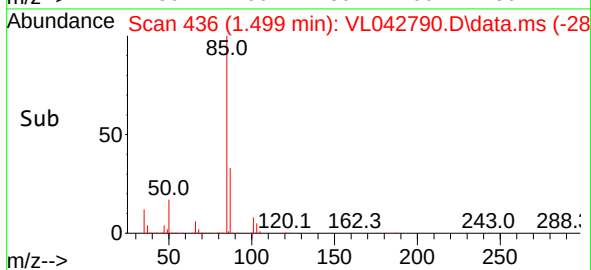
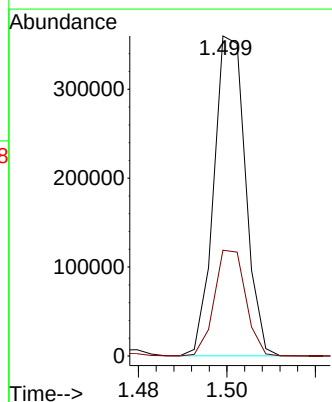
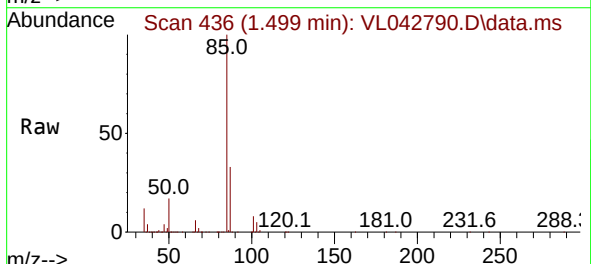
Manual Integrations
APPROVED

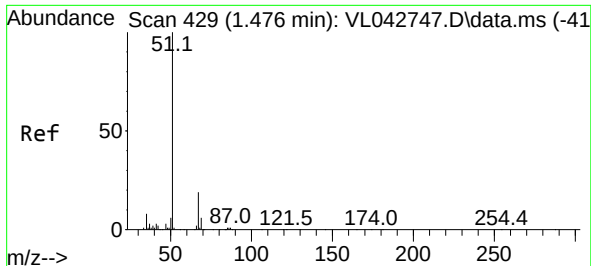
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#2
Dichlorodifluoromethane
Concen: 9.608 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

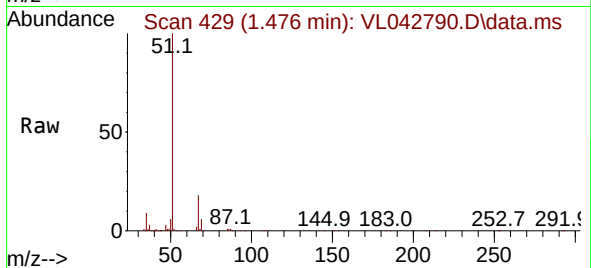
Tgt Ion: 85 Resp: 179092
Ion Ratio Lower Upper
85 100
87 33.1 25.4 38.2





#3
Chlorodifluoromethane
Concen: 10.049 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

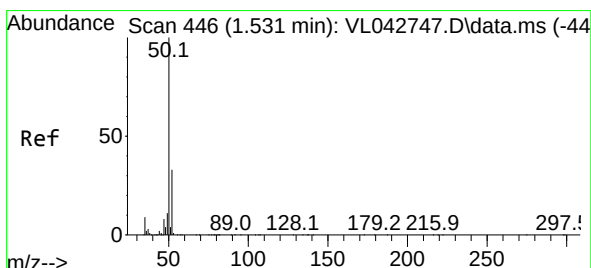
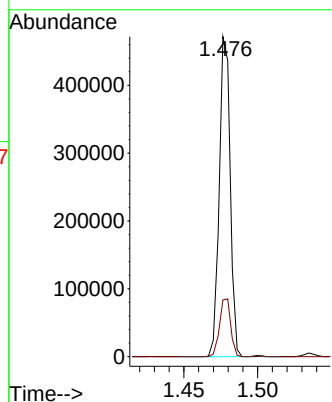
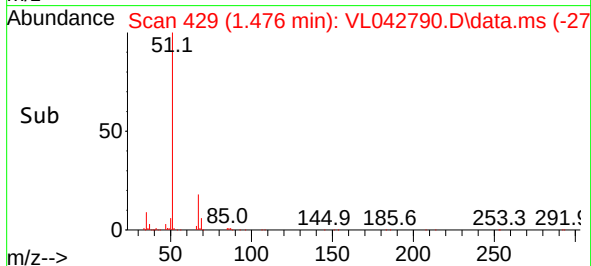
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



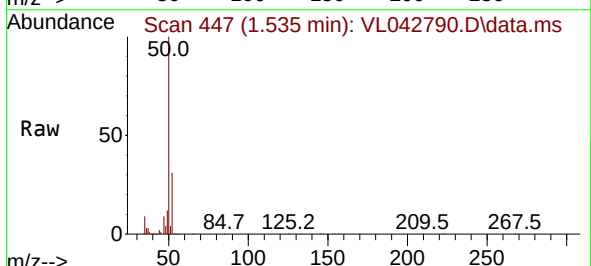
Tgt Ion: 51 Resp: 243998
Ion Ratio Lower Upper
51 100
67 18.6 15.0 22.6

Manual Integrations
APPROVED

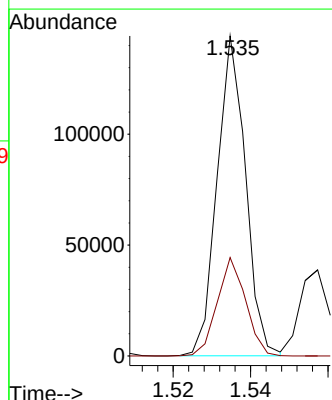
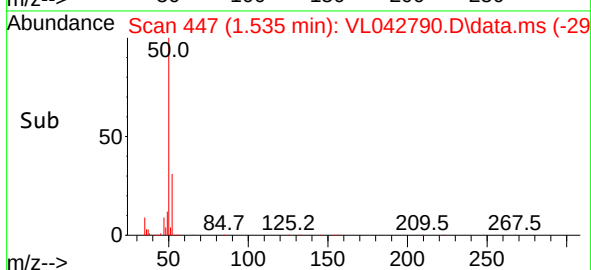
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

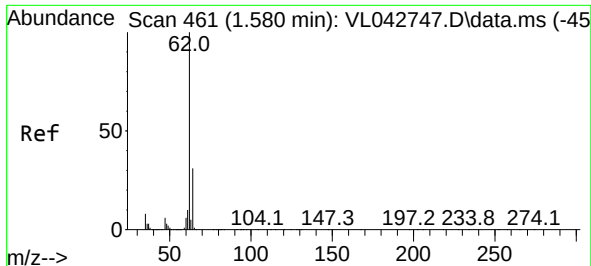


#4
Chloromethane
Concen: 9.761 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



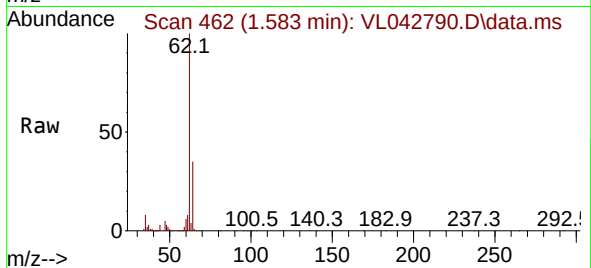
Tgt Ion: 50 Resp: 73605
Ion Ratio Lower Upper
50 100
52 30.7 26.6 40.0





#5
 Vinyl Chloride
 Concen: 8.460 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

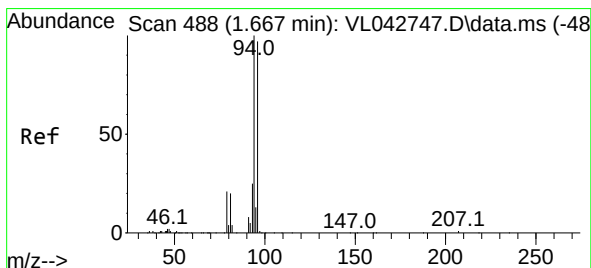
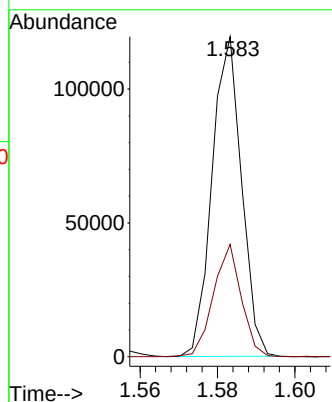
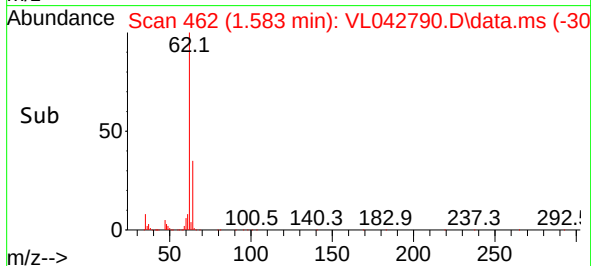
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion: 62 Resp: 63029
 Ion Ratio Lower Upper
 62 100
 64 35.1 24.5 36.7

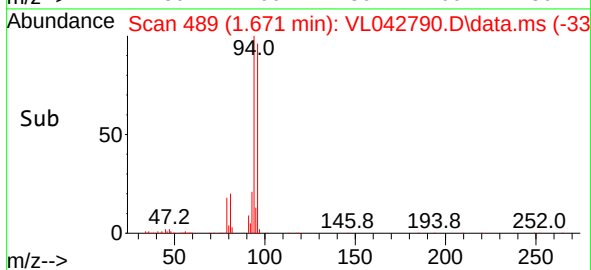
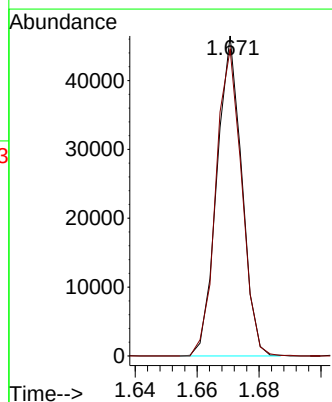
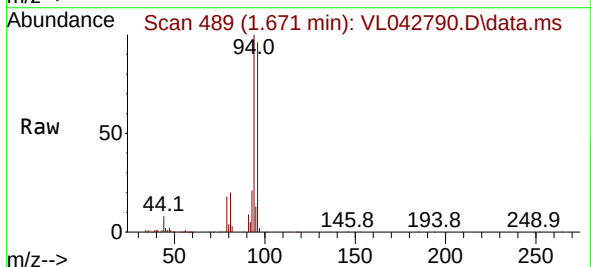
Manual Integrations
 APPROVED

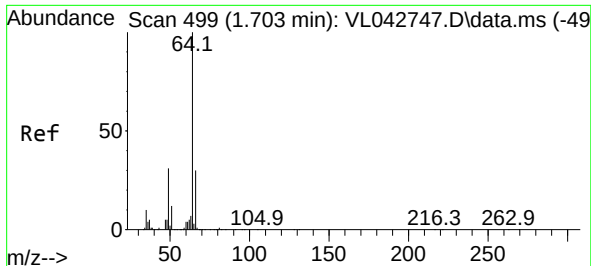
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 94 Resp: 25942
 Ion Ratio Lower Upper
 94 100
 96 95.9 77.6 116.4





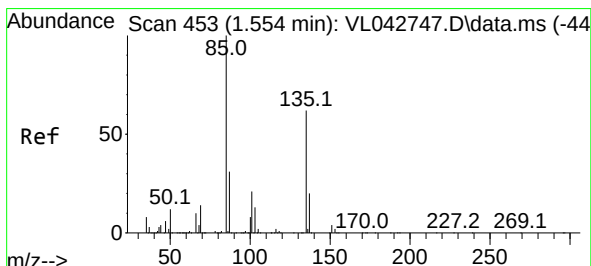
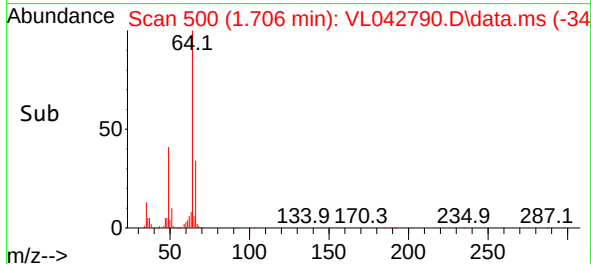
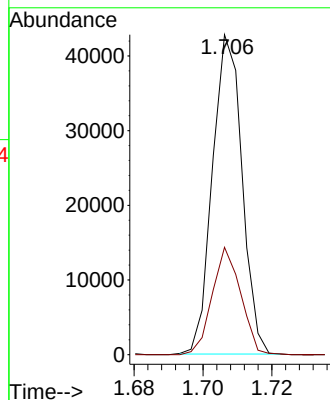
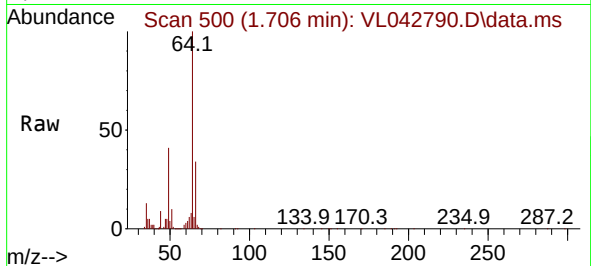
#7
Chloroethane
Concen: 8.839 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 64 Resp: 25449
Ion Ratio Lower Upper
64 100
66 33.5 24.1 36.1

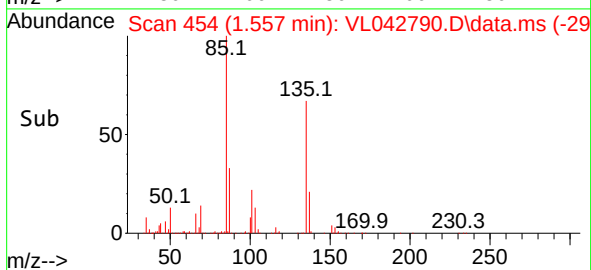
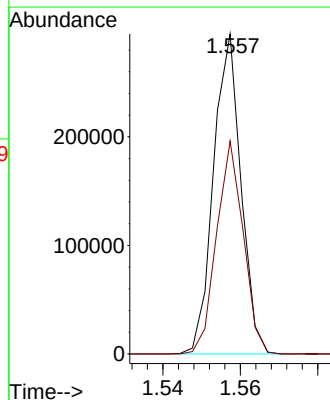
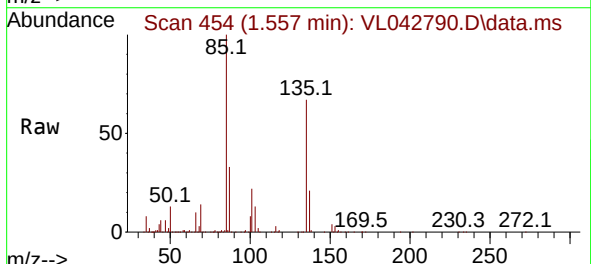
Manual Integrations
APPROVED

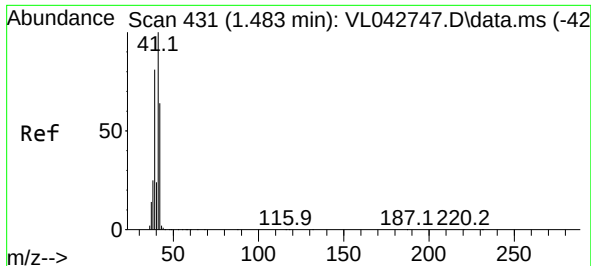
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#8
Dichlorotetrafluoroethane
Concen: 9.447 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 85 Resp: 144815
Ion Ratio Lower Upper
85 100
135 65.0 50.6 76.0





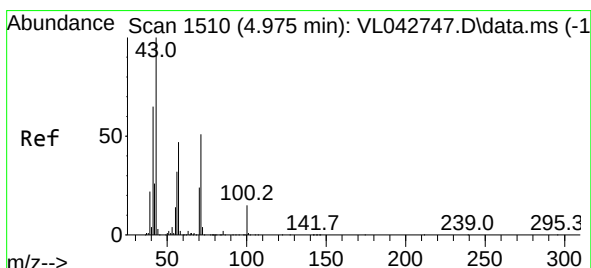
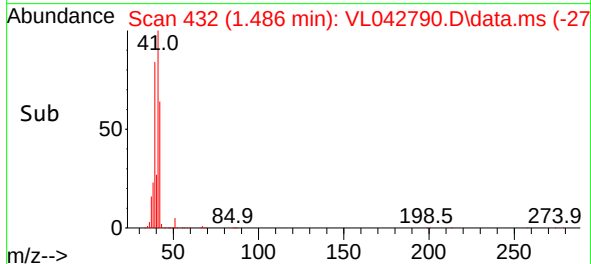
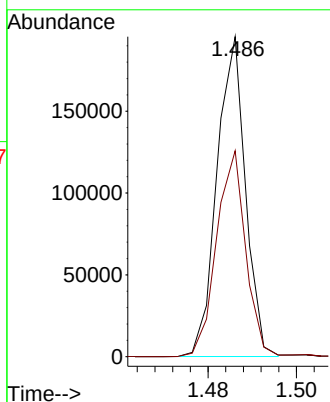
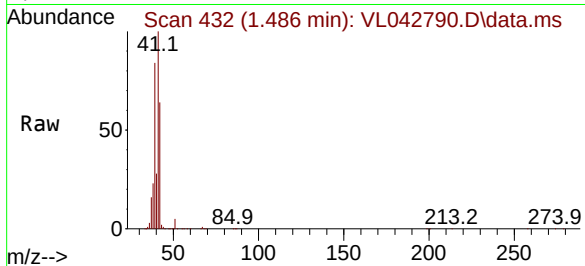
#9
 Propene
 Concen: 9.891 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 41 Resp: 8728
 Ion Ratio Lower Upper
 41 100
 42 66.7 53.2 79.8

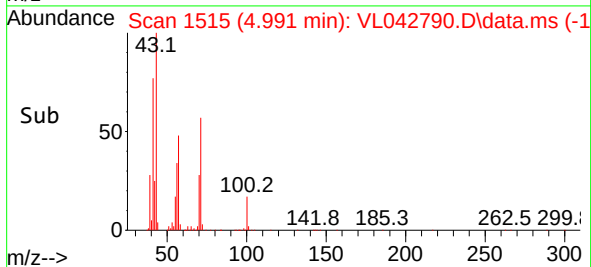
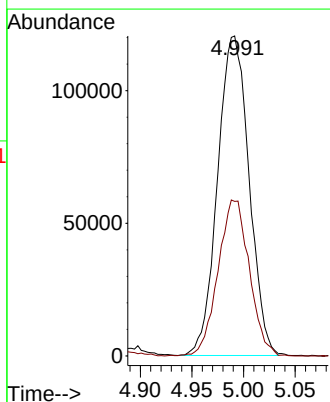
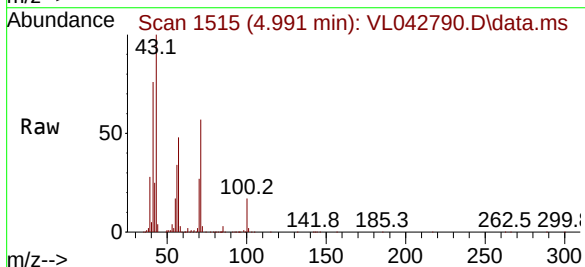
Manual Integrations
 APPROVED

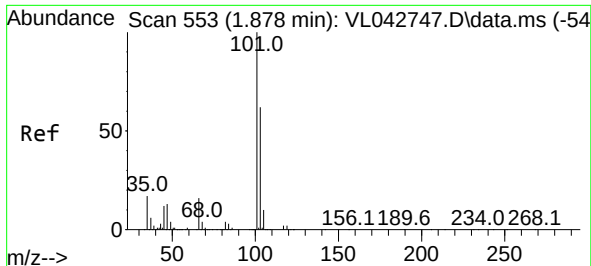
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#10
 Heptane
 Concen: 10.724 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.016 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 43 Resp: 255178
 Ion Ratio Lower Upper
 43 100
 57 48.6 39.9 59.9





#11

Trichlorofluoromethane

Concen: 9.314 ppbv

RT: 1.881 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion:101 Resp: 17894

Ion Ratio Lower Upper

101 100

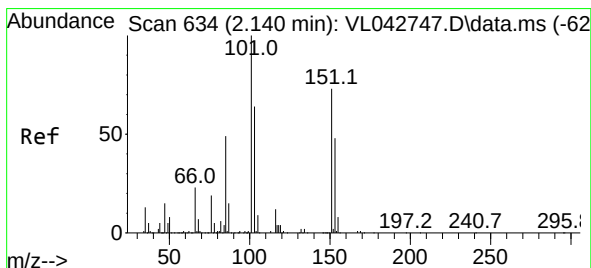
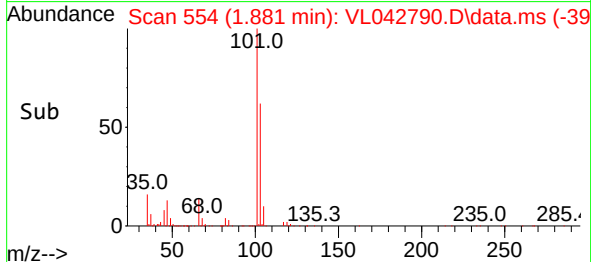
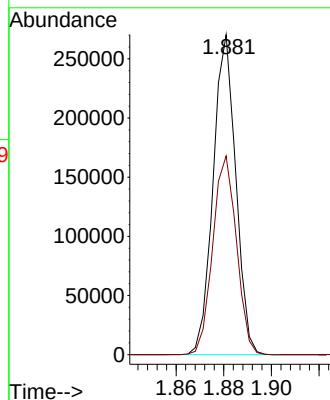
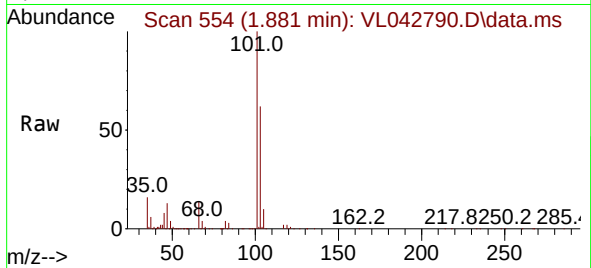
103 62.1 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.446 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.003 min

Lab File: VL042790.D

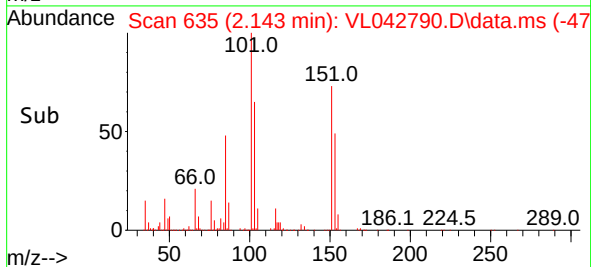
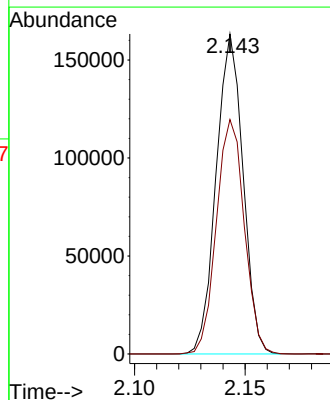
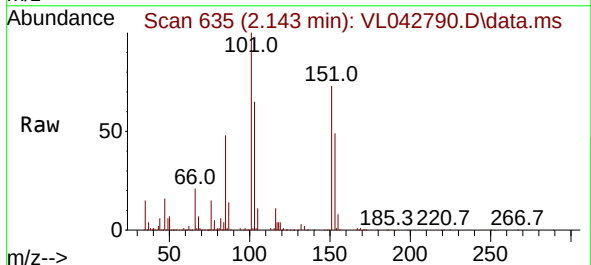
Acq: 31 Jul 2025 10:15

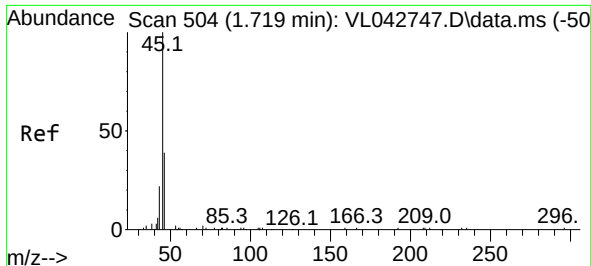
Tgt Ion:101 Resp: 137912

Ion Ratio Lower Upper

101 100

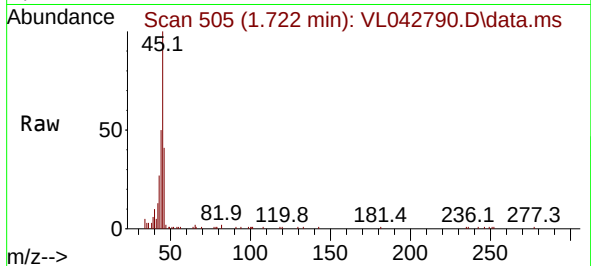
151 76.0 60.5 90.7





#13
Ethanol
Concen: 8.701 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

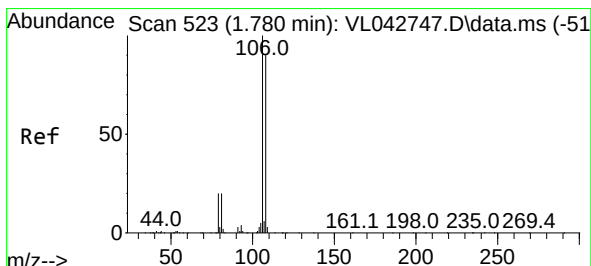
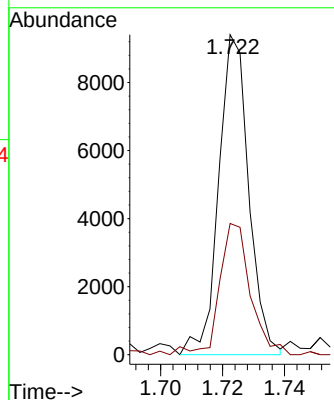
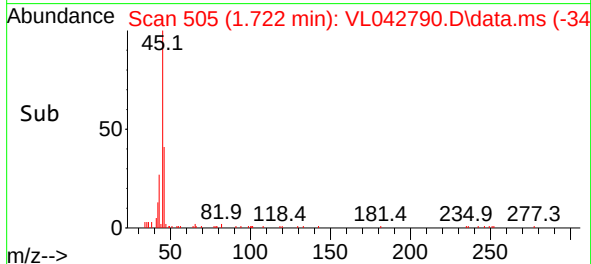
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



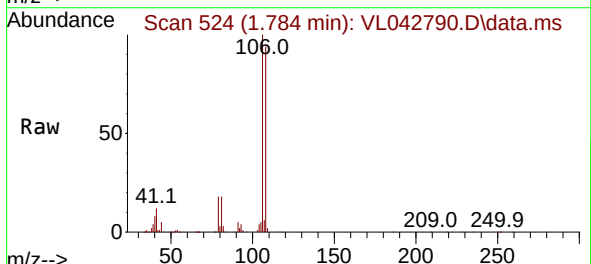
Tgt Ion: 45 Resp: 633
Ion Ratio Lower Upper
45 100
46 42.3 17.8 71.4

Manual Integrations
APPROVED

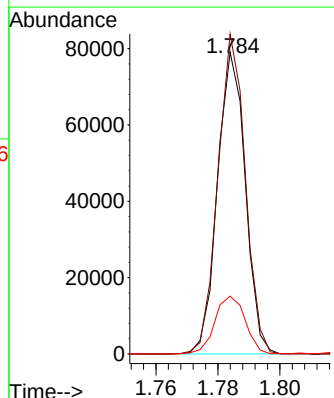
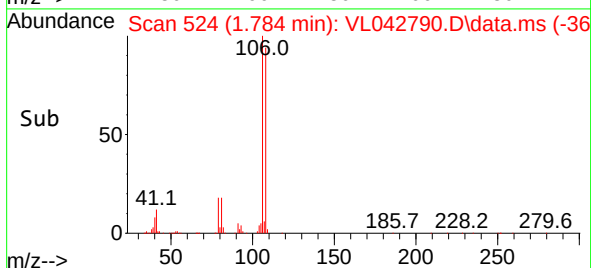
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

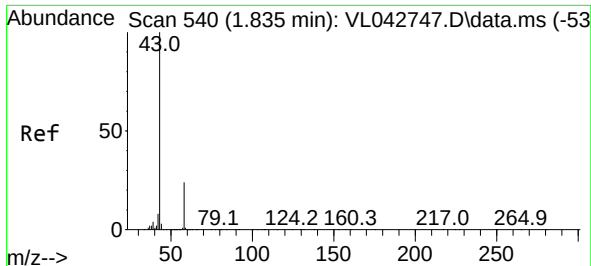


#14
Bromoethene
Concen: 9.543 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



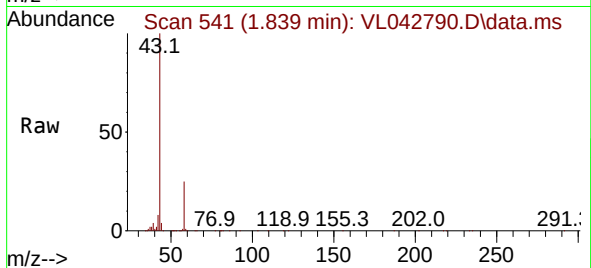
Tgt Ion:108 Resp: 49330
Ion Ratio Lower Upper
108 100
106 104.2 84.7 127.1
79 21.5 17.4 26.2





#15
Acetone
Concen: 7.590 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

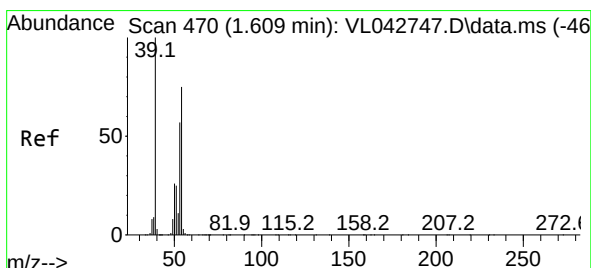
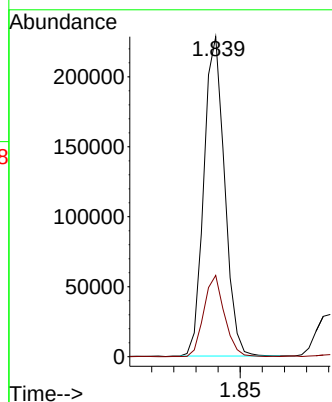
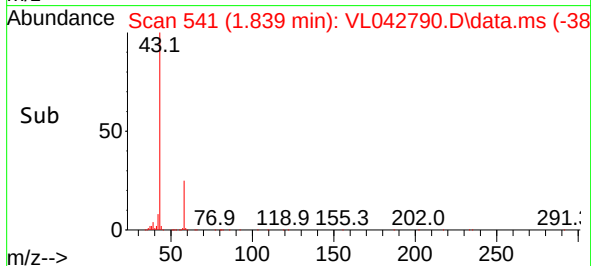
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



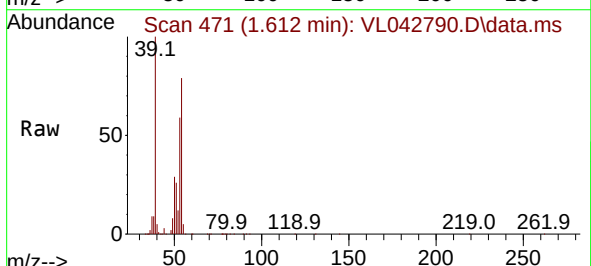
Tgt Ion: 43 Resp: 147760
Ion Ratio Lower Upper
43 100
58 25.5 19.8 29.8

Manual Integrations
APPROVED

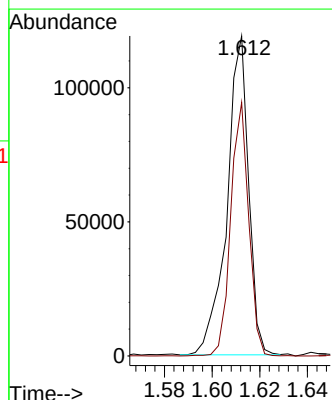
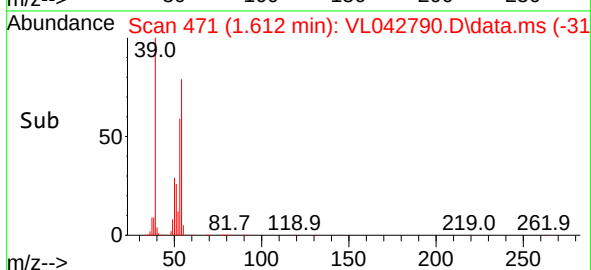
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

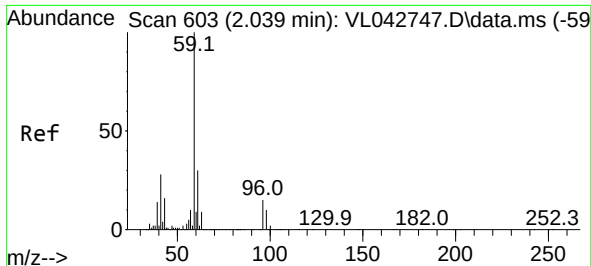


#16
1,3-Butadiene
Concen: 9.012 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 39 Resp: 74826
Ion Ratio Lower Upper
39 100
54 66.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.987 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 59 Resp: 157784

Ion Ratio Lower Upper

59 100

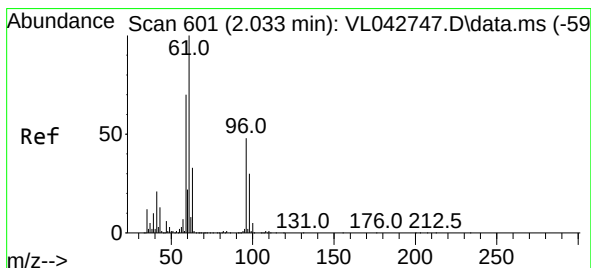
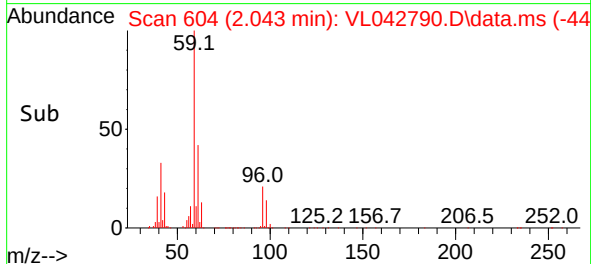
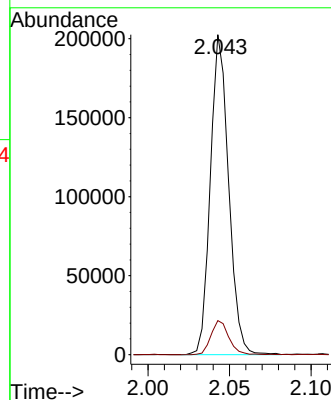
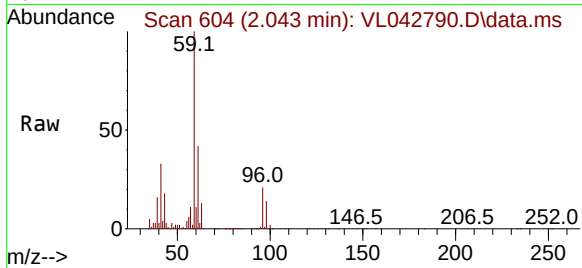
57 10.6 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#18

1,1-Dichloroethene

Concen: 9.016 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

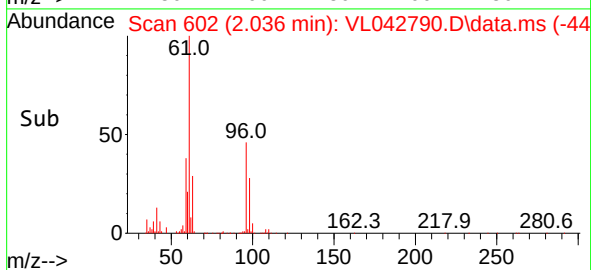
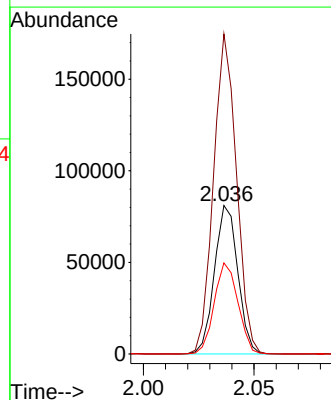
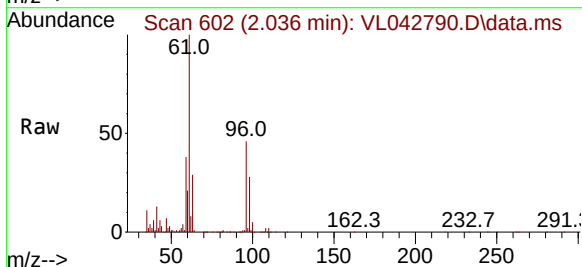
Tgt Ion: 96 Resp: 59478

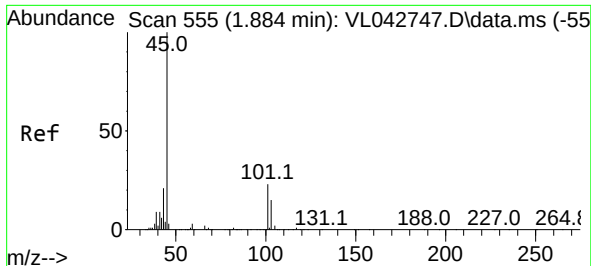
Ion Ratio Lower Upper

96 100

61 215.5 165.8 248.6

98 61.3 49.9 74.9





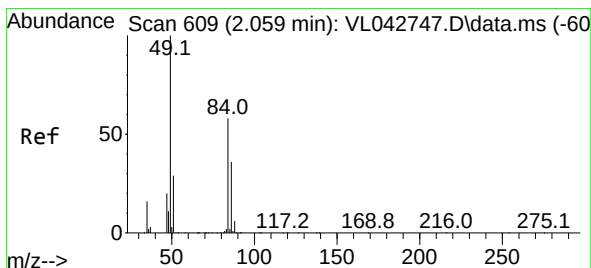
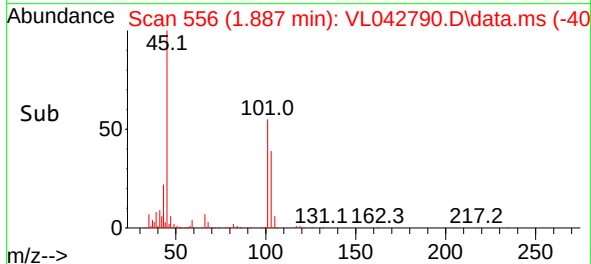
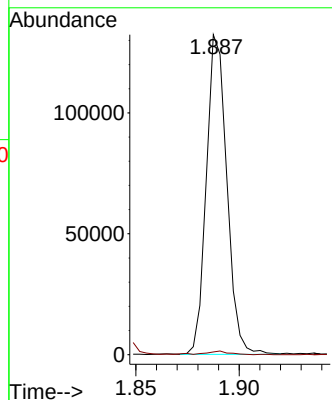
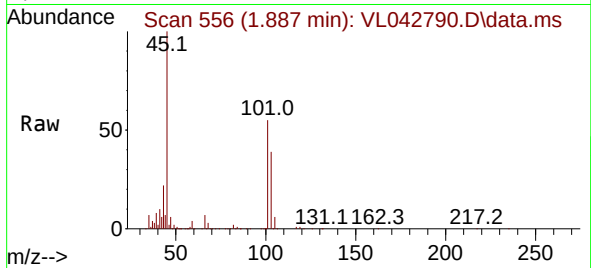
#19
Isopropyl Alcohol
Concen: 8.823 ppbv
RT: 1.887 min Scan# 512
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 45 Resp: 91274
Ion Ratio Lower Upper
45 100
58 41.3 30.0 45.0

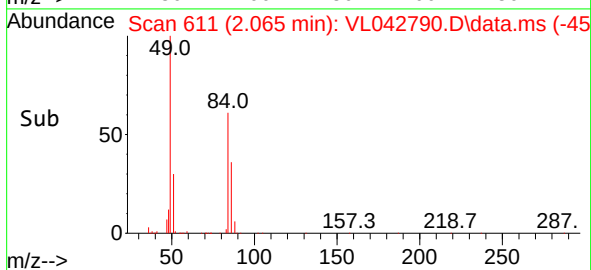
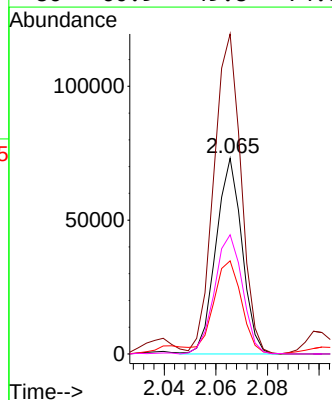
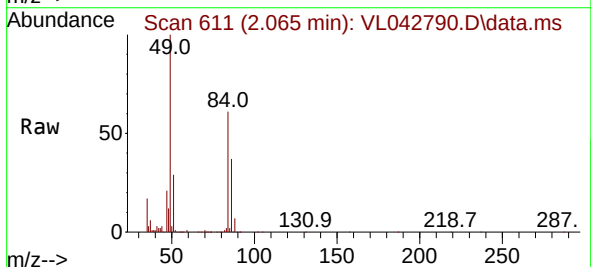
Manual Integrations
APPROVED

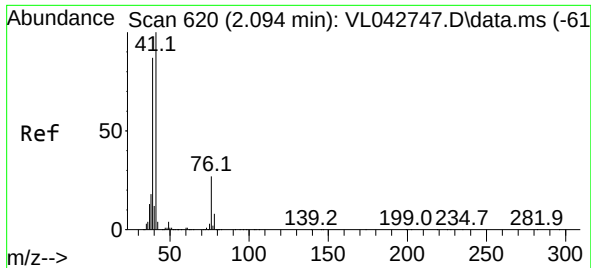
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#20
Methylene Chloride
Concen: 8.372 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

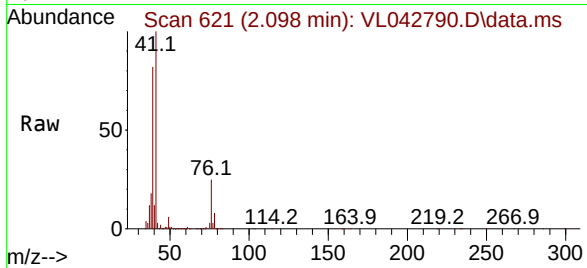
Tgt Ion: 84 Resp: 51356
Ion Ratio Lower Upper
84 100
49 163.1 138.6 208.0
51 47.5 40.6 61.0
86 60.9 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.776 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

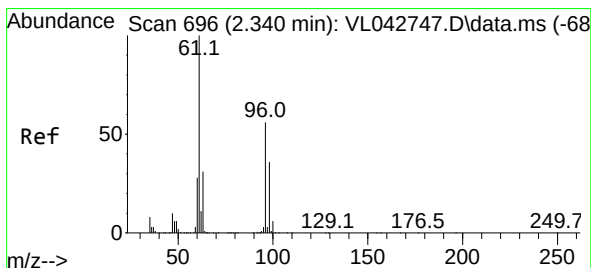
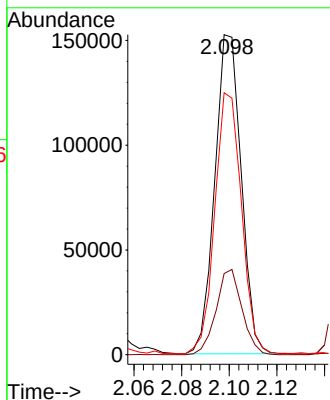
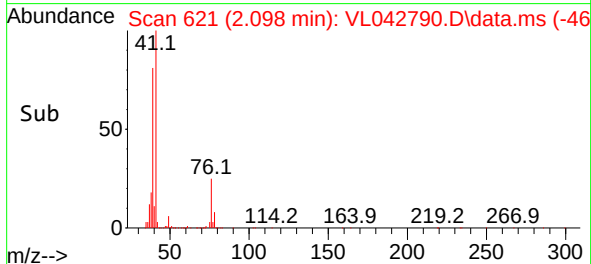
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion: 41 Resp: 11728
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 82.6 68.3 102.5

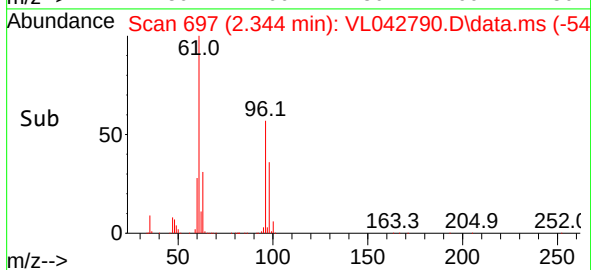
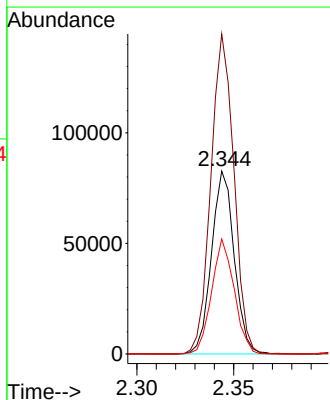
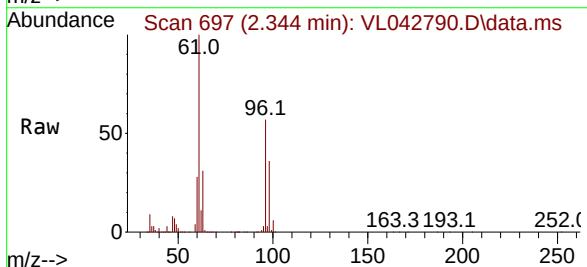
Manual Integrations
 APPROVED

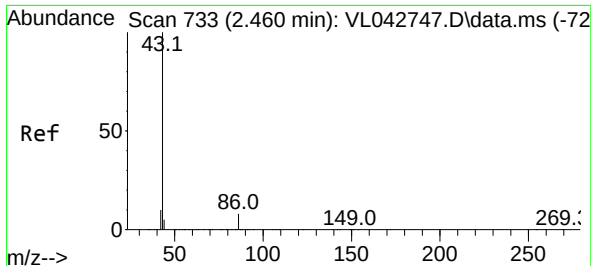
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.517 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

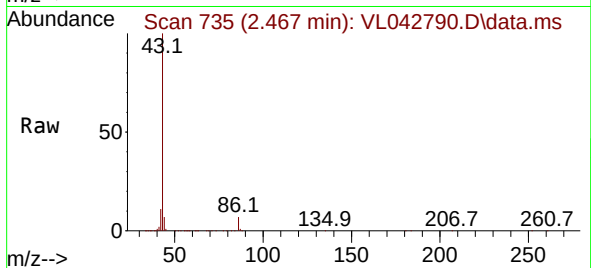
Tgt Ion: 96 Resp: 67541
 Ion Ratio Lower Upper
 96 100
 61 175.0 142.3 213.5
 98 62.9 50.6 76.0





#23
 Vinyl Acetate
 Concen: 11.460 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

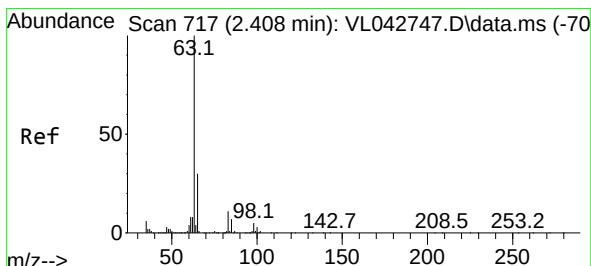
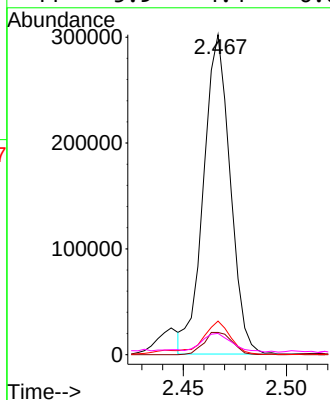
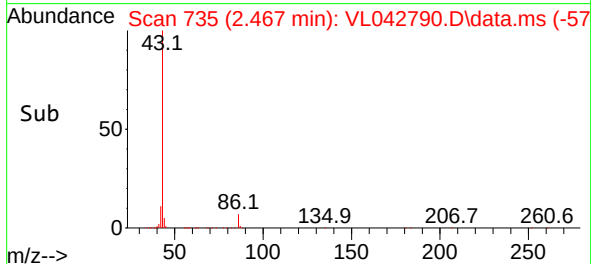
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



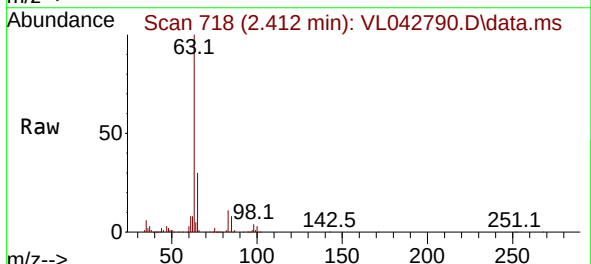
Tgt Ion: 43 Resp: 270452
 Ion Ratio Lower Upper
 43 100
 86 7.0 6.1 9.1
 42 10.4 7.8 11.8
 44 5.9 4.4 6.6

Manual Integrations
 APPROVED

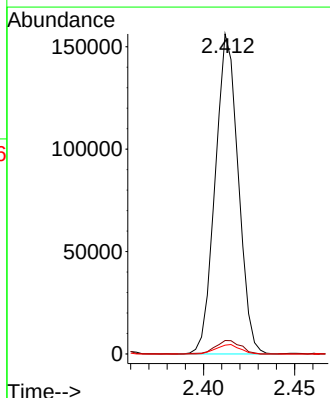
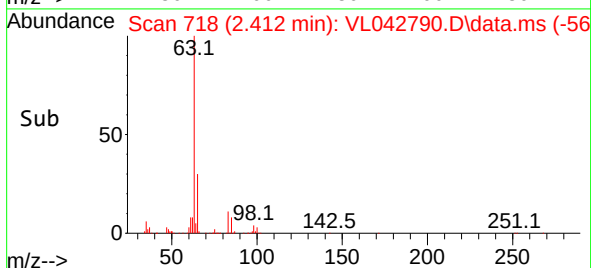
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

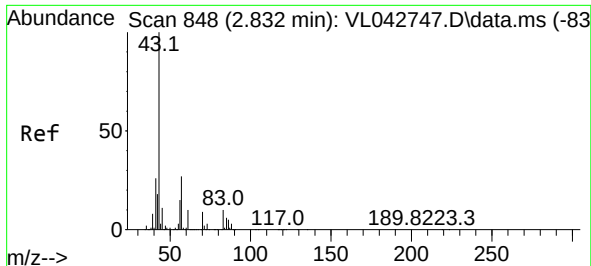


#24
 1,1-Dichloroethane
 Concen: 9.423 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



Tgt Ion: 63 Resp: 137263
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.5 7.4
 100 2.8 1.6 4.8





#25

Ethyl Acetate

Concen: 10.526 ppbv

RT: 2.839 min Scan# 848

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 43 Resp: 453552

Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

61 8.3 6.7 10.1

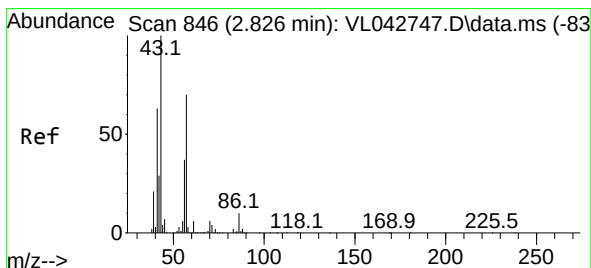
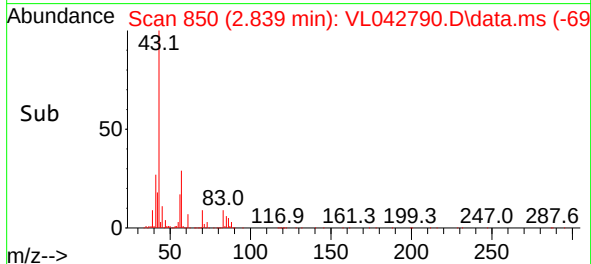
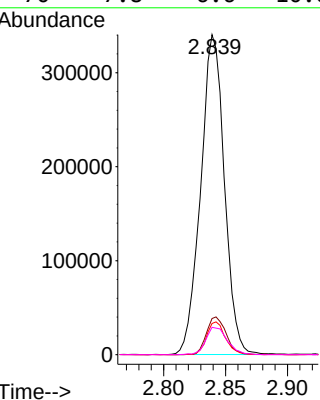
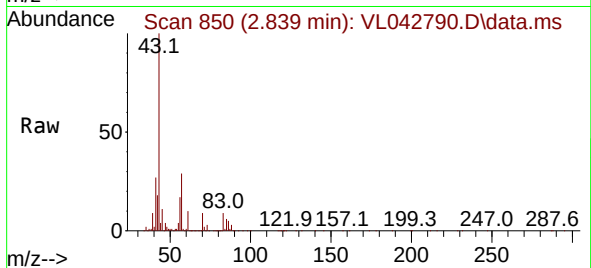
70 7.8 6.6 10.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#26

Hexane

Concen: 10.318 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion: 57 Resp: 195021

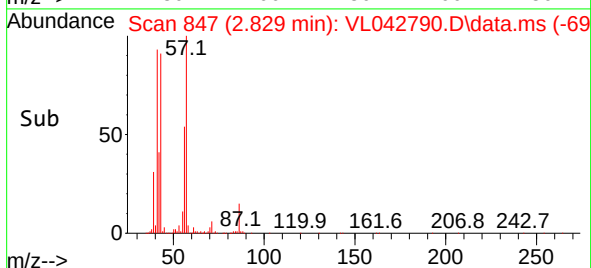
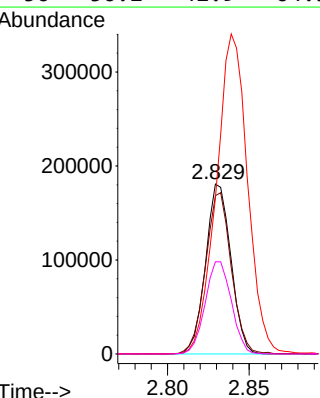
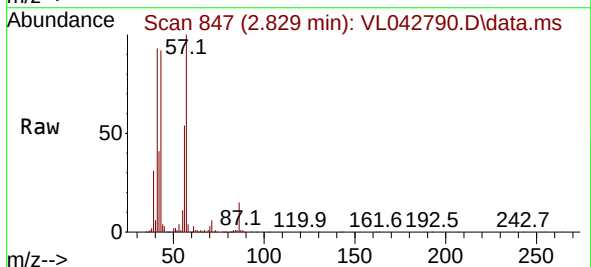
Ion Ratio Lower Upper

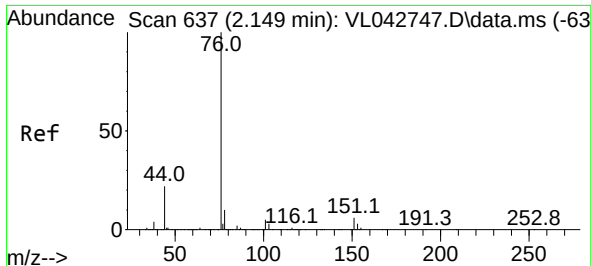
57 100

41 97.6 75.4 113.2

43 233.9 185.0 277.6

56 56.2 42.9 64.3





#27

Carbon Disulfide

Concen: 10.216 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 76 Resp: 165318

Ion Ratio Lower Upper

76 100

44 21.3 19.3 28.9

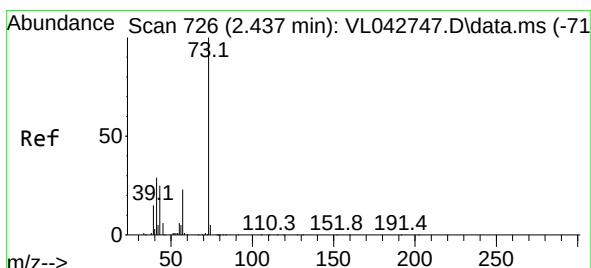
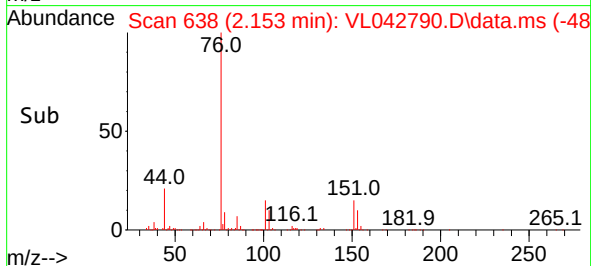
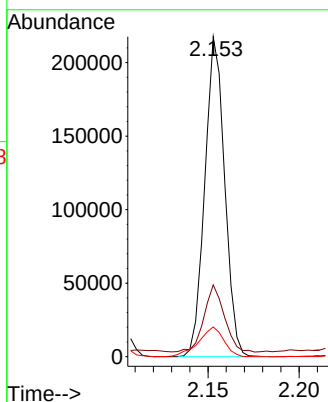
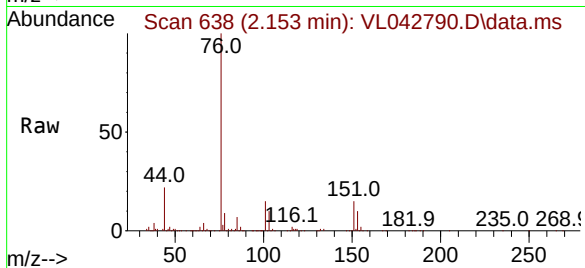
78 11.8 9.9 14.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#28

Methyl tert-Butyl Ether

Concen: 9.699 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.007 min

Lab File: VL042790.D

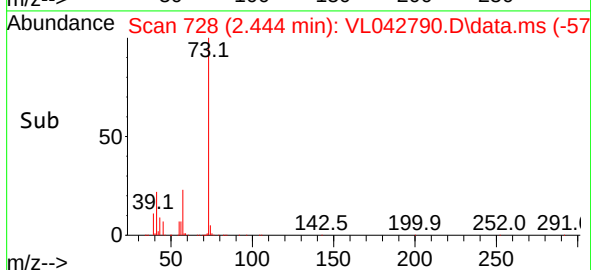
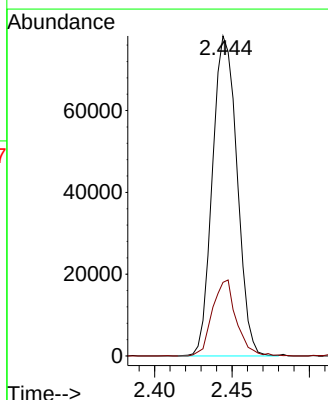
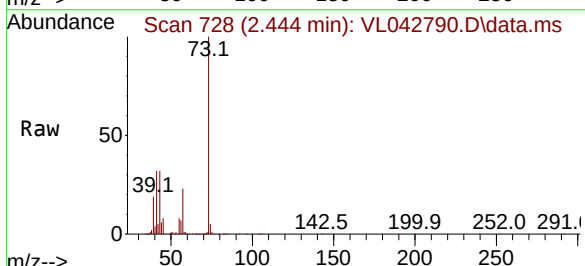
Acq: 31 Jul 2025 10:15

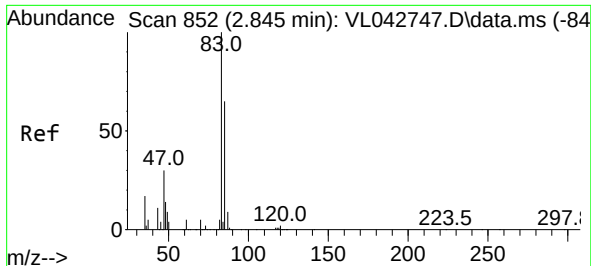
Tgt Ion: 73 Resp: 86612

Ion Ratio Lower Upper

73 100

57 23.1 19.8 29.8





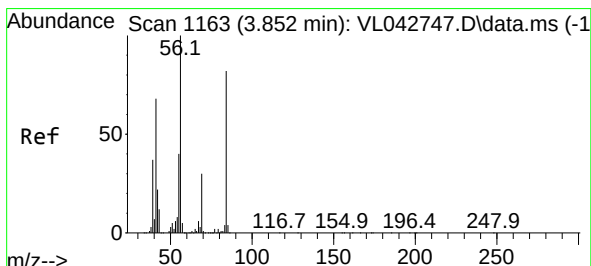
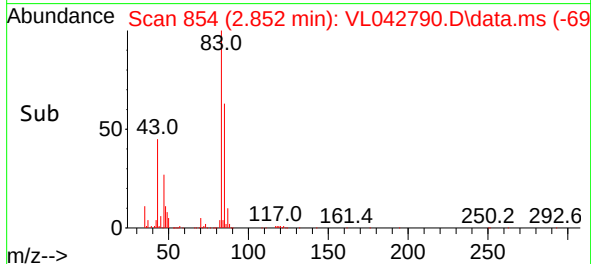
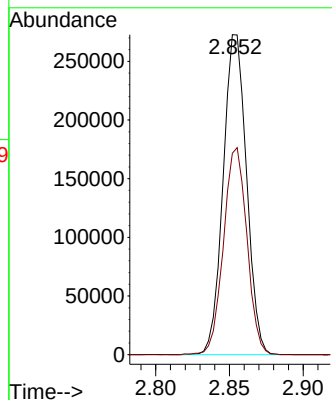
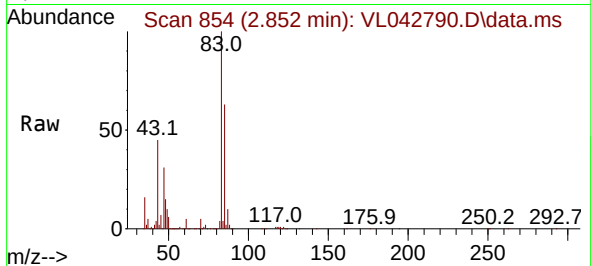
#29
Chloroform
Concen: 10.303 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 83 Resp: 30092
Ion Ratio Lower Upper
83 100
85 62.9 52.2 78.2

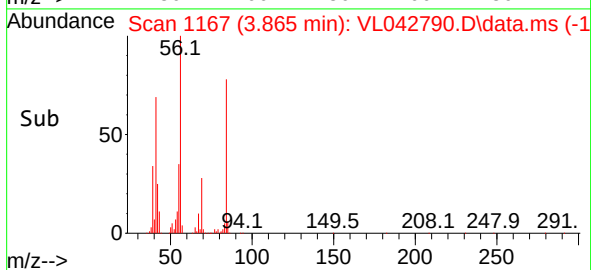
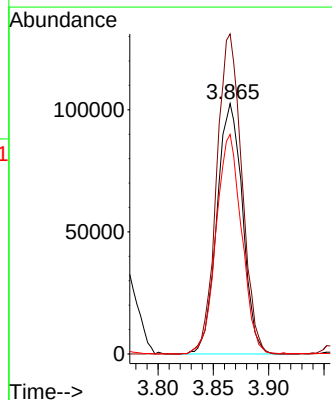
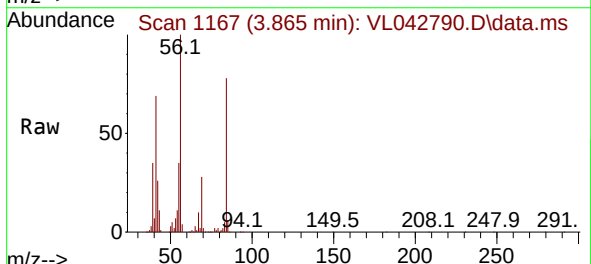
Manual Integrations
APPROVED

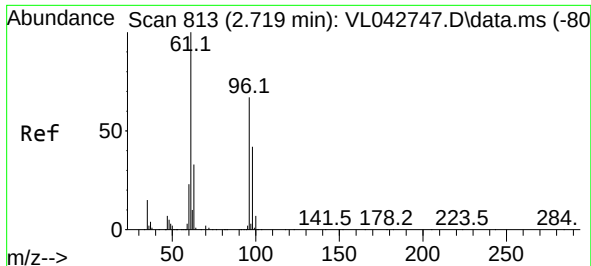
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#30
Cyclohexane
Concen: 10.299 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

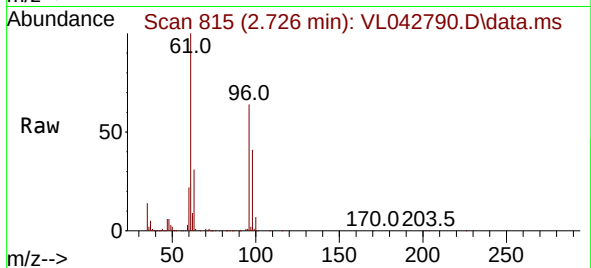
Tgt Ion: 84 Resp: 165101
Ion Ratio Lower Upper
84 100
56 125.4 97.5 146.3
41 87.4 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 10.022 ppbv
 RT: 2.726 min Scan# 813
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

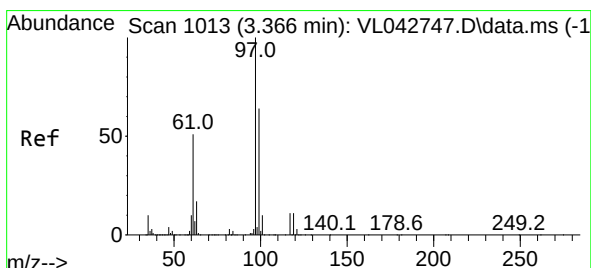
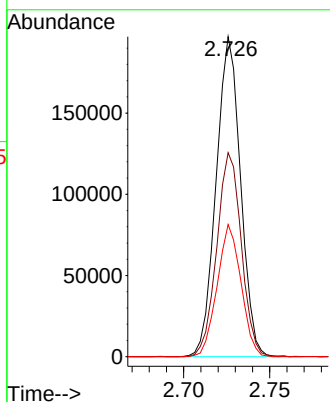
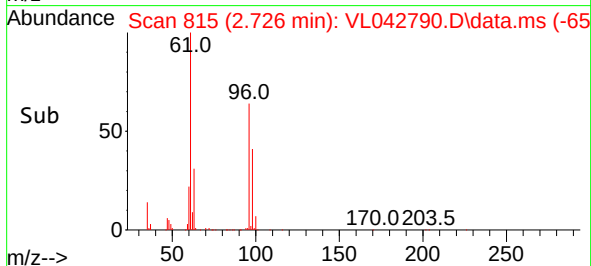
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



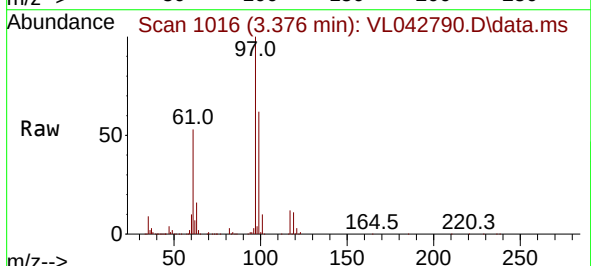
Tgt Ion: 61 Resp: 19466
 Ion Ratio Lower Upper
 61 100
 96 63.8 53.5 80.3
 98 41.3 33.6 50.4

Manual Integrations
 APPROVED

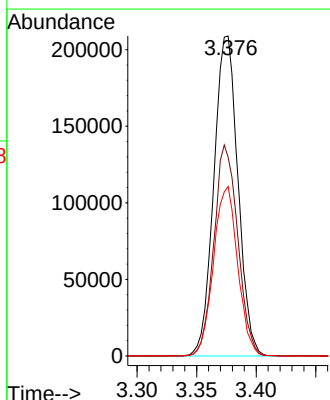
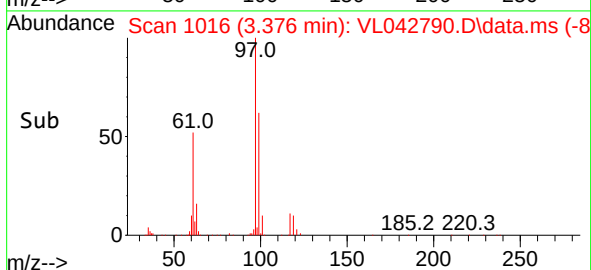
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

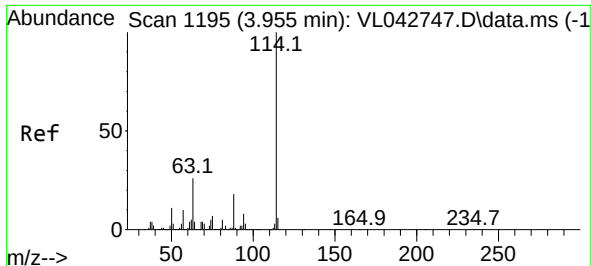


#32
 1,1,1-Trichloroethane
 Concen: 9.647 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



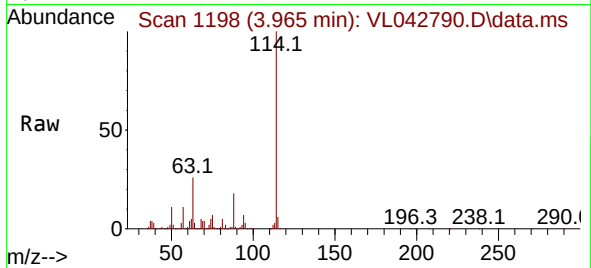
Tgt Ion: 97 Resp: 293497
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.0 76.6
 61 53.3 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

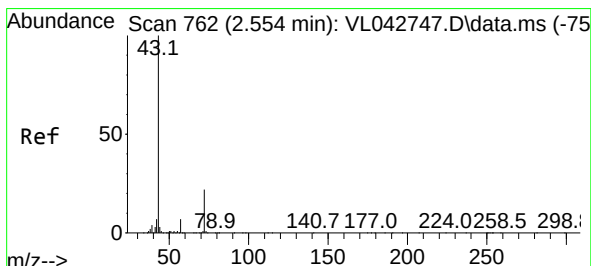
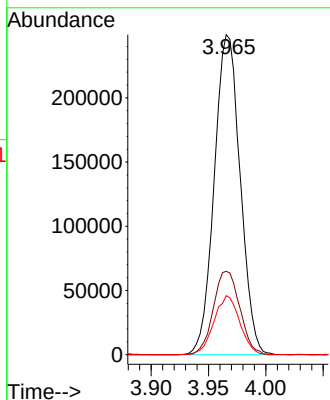
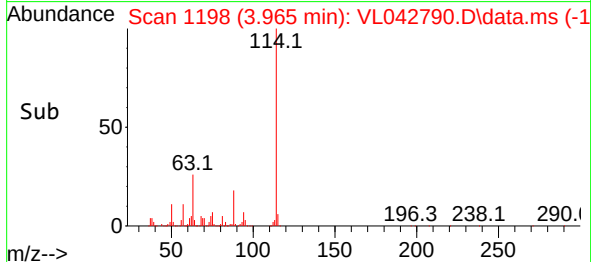
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



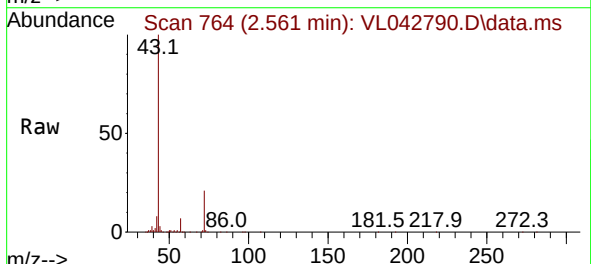
Tgt Ion:114 Resp: 391458
Ion Ratio Lower Upper
114 100
63 26.7 20.5 30.7
88 18.4 14.0 21.0

Manual Integrations
APPROVED

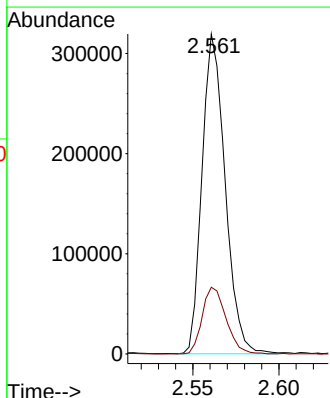
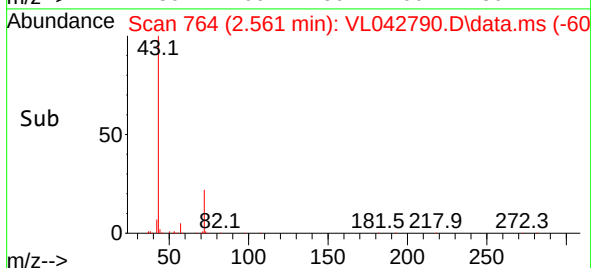
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

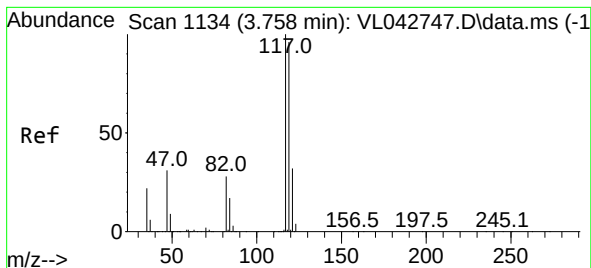


#34
2-Butanone
Concen: 10.758 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 43 Resp: 298296
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.748 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion:117 Resp: 312530

Ion Ratio Lower Upper

117 100

119 96.1 77.1 115.7

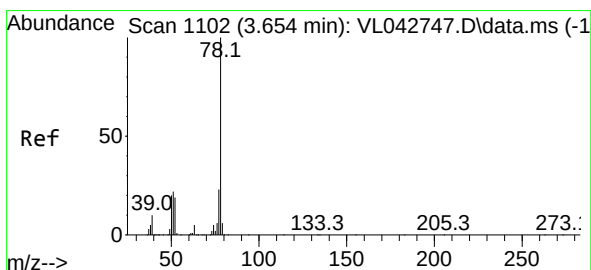
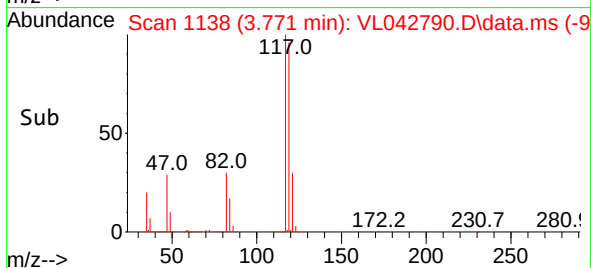
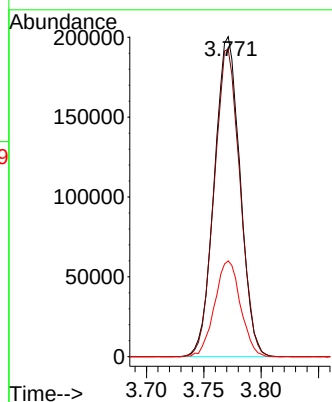
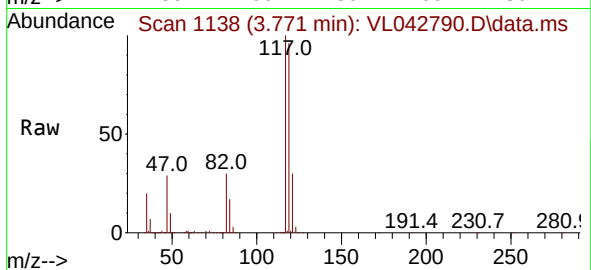
121 30.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#36

Benzene

Concen: 10.536 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

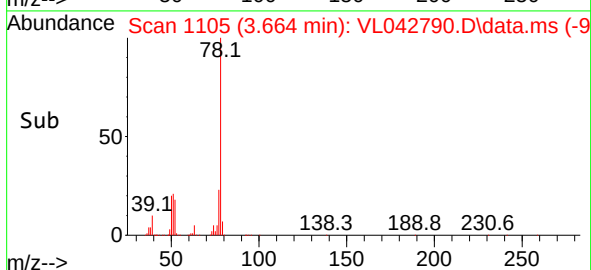
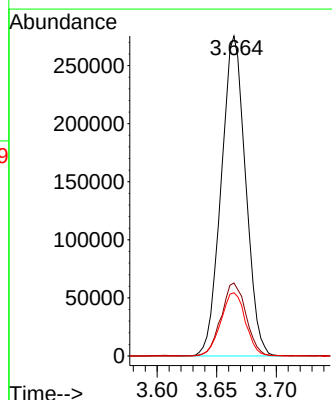
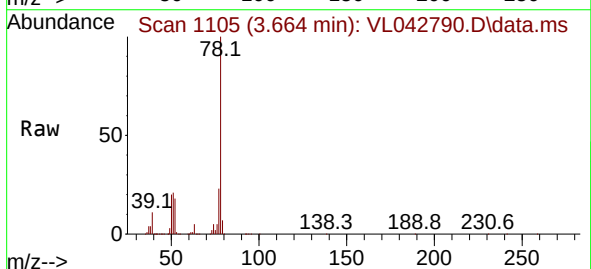
Tgt Ion: 78 Resp: 390877

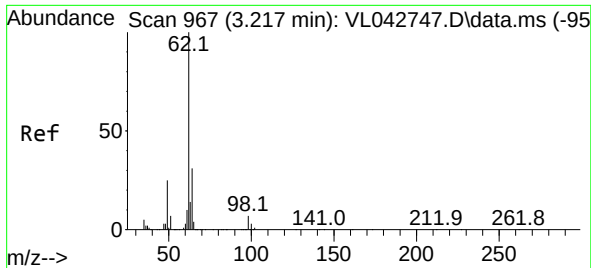
Ion Ratio Lower Upper

78 100

77 22.7 18.5 27.7

50 19.8 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.589 ppbv

RT: 3.224 min Scan# 90

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 62 Resp: 236650

Ion Ratio Lower Upper

62 100

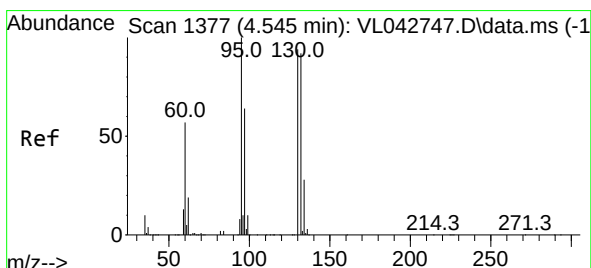
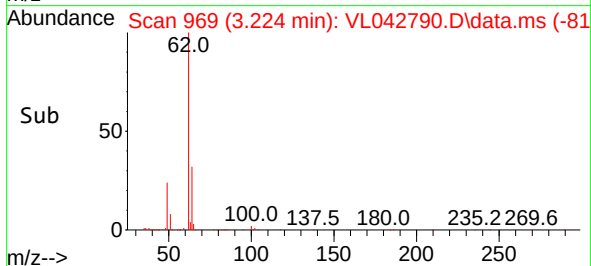
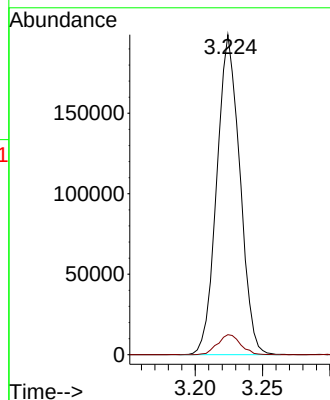
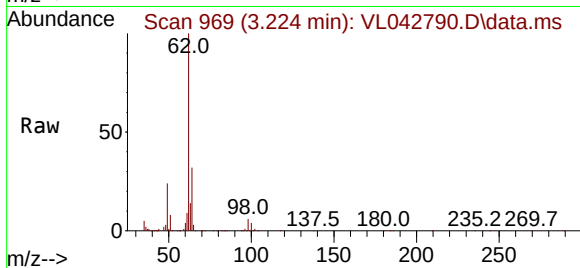
98 6.2 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#38

Trichloroethene

Concen: 9.776 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:130 Resp: 174246

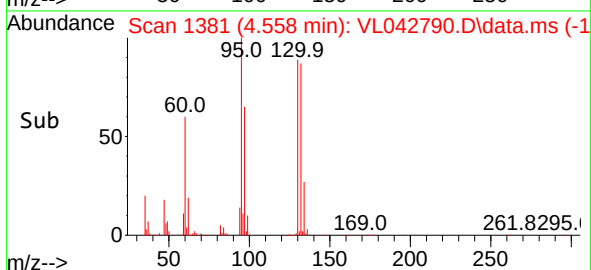
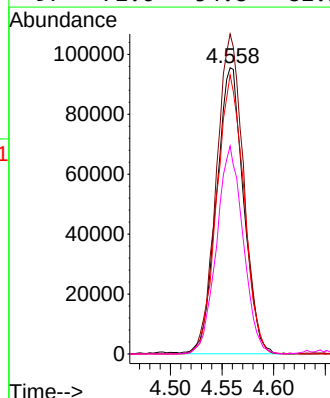
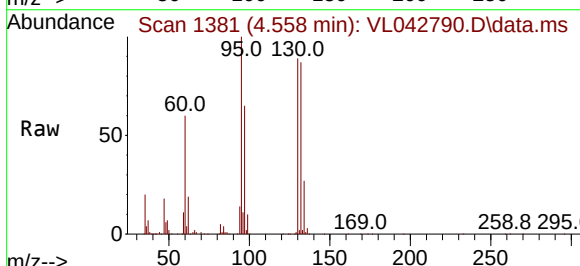
Ion Ratio Lower Upper

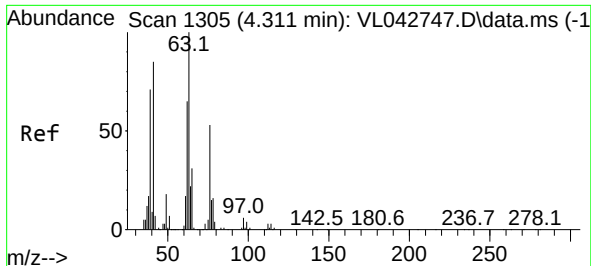
130 100

95 111.7 85.4 128.2

132 97.5 78.2 117.2

97 72.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.536 ppbv

RT: 4.321 min Scan# 1308

Delta R.T. 0.010 min

Lab File: VL042790.D

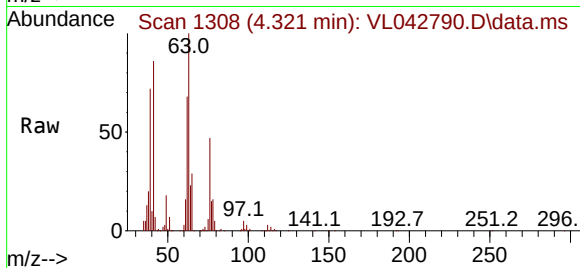
Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01



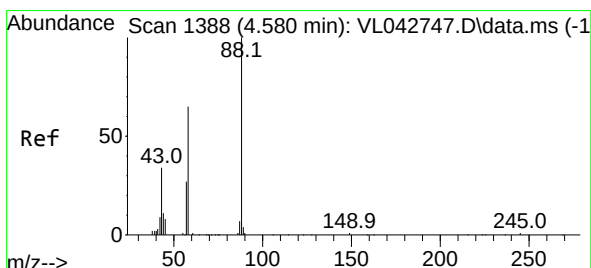
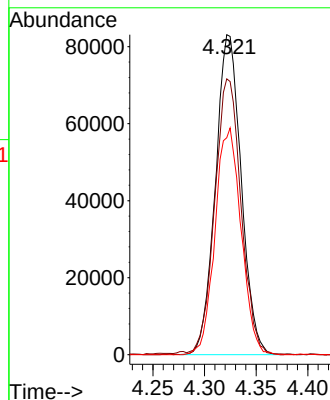
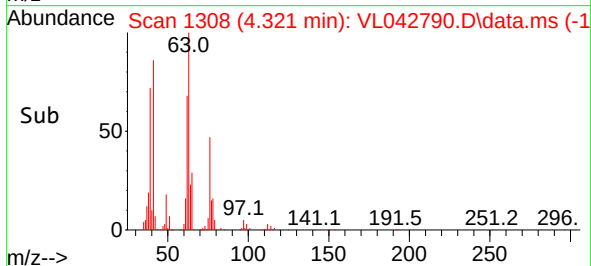
Tgt Ion: 63 Resp: 144288

Ion	Ratio	Lower	Upper
63	100		
41	86.0	68.2	102.4
62	67.8	52.0	78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#40

1,4-Dioxane

Concen: 8.594 ppbv

RT: 4.590 min Scan# 1391

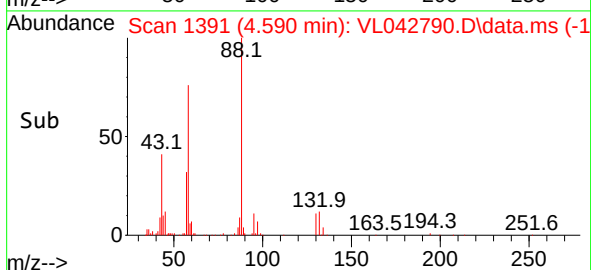
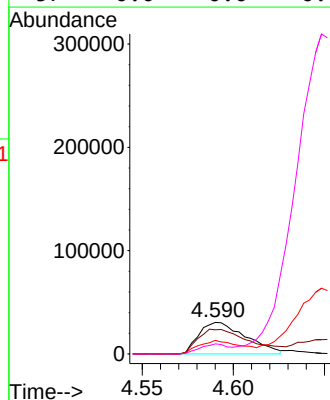
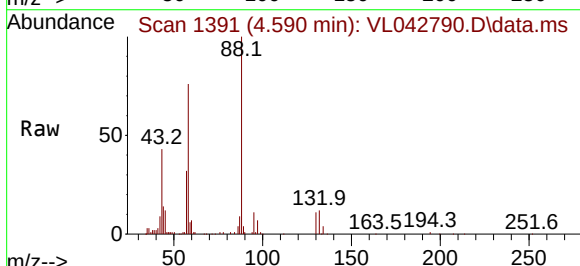
Delta R.T. 0.010 min

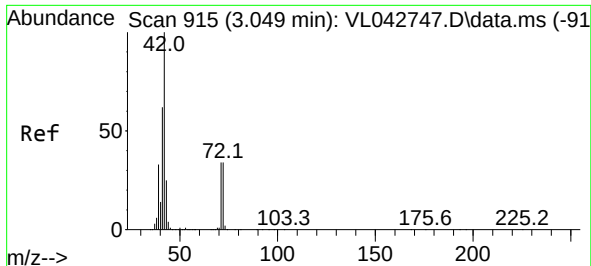
Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion: 88 Resp: 54856

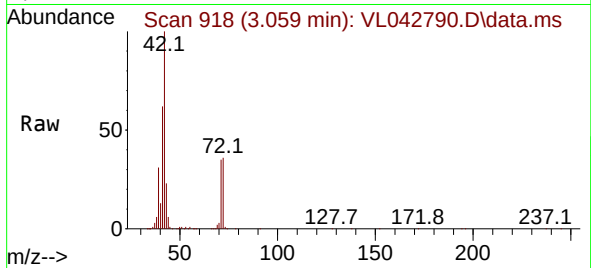
Ion	Ratio	Lower	Upper
88	100		
58	85.8	58.8	88.2
43	34.3	28.9	43.3
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 11.448 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

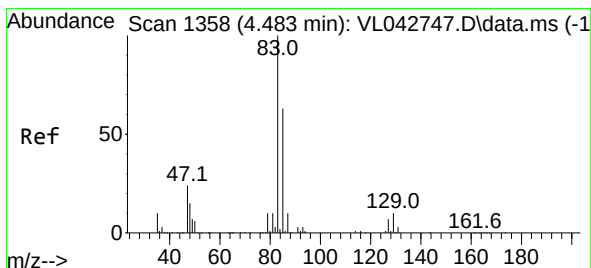
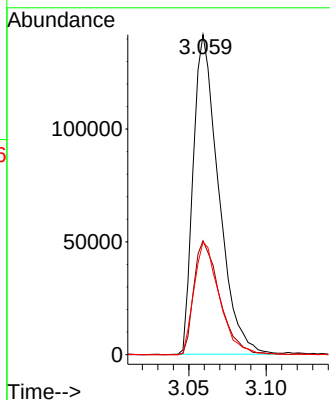
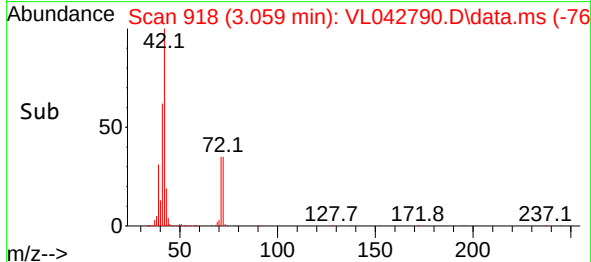
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



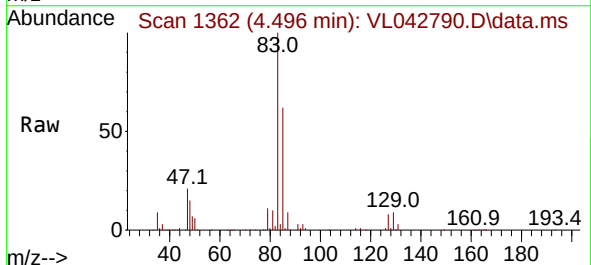
Tgt Ion: 42 Resp: 16153
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 35.5 28.6 43.0

Manual Integrations
APPROVED

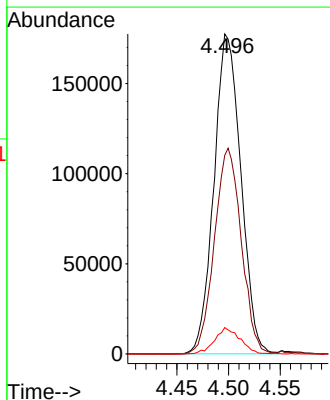
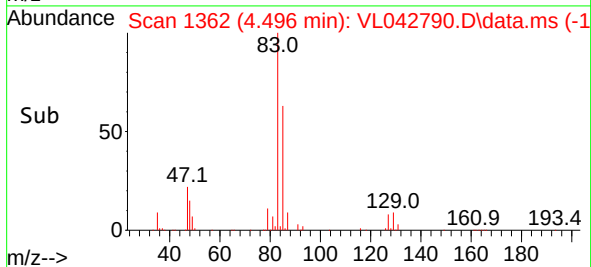
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

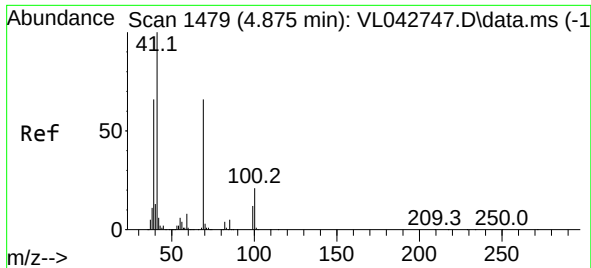


#42
Bromodichloromethane
Concen: 11.059 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 83 Resp: 321891
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.2 5.4 8.2#





#43
Methyl Methacrylate
Concen: 11.512 ppbv
RT: 4.888 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

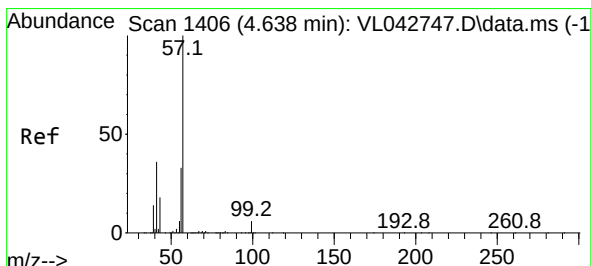
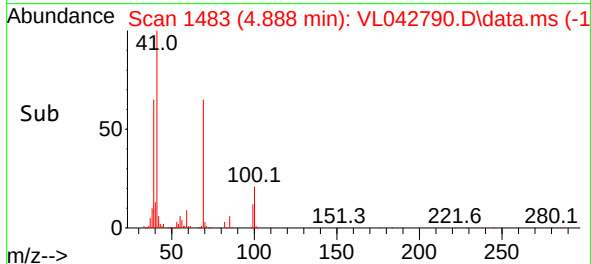
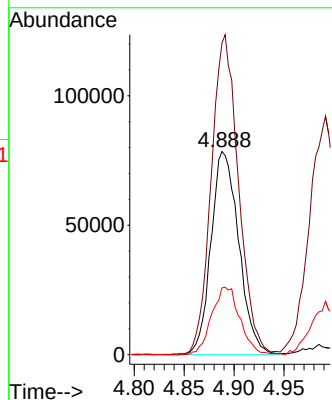
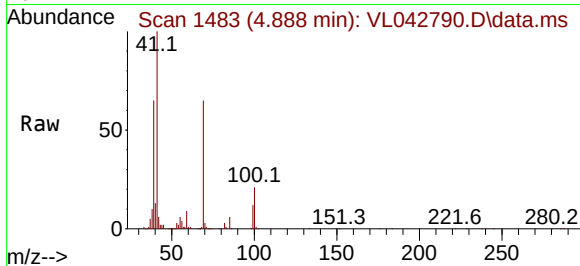
VL0731ABS01

Tgt Ion: 69 Resp: 15180
Ion Ratio Lower Upper
69 100
41 154.2 125.7 188.5
100 33.8 28.6 42.8

Manual Integrations

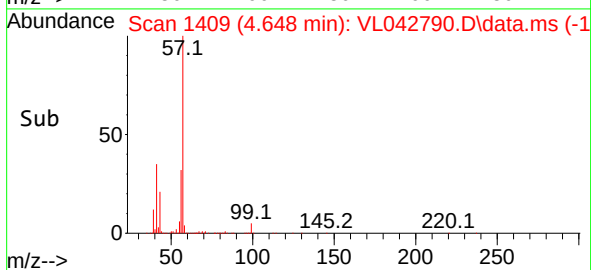
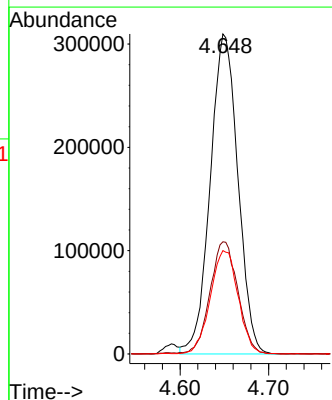
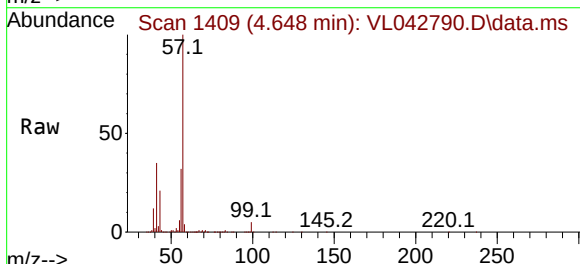
APPROVED

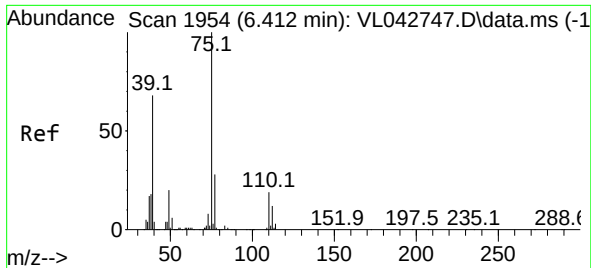
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#44
2,2,4-Trimethylpentane
Concen: 11.121 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 57 Resp: 672509
Ion Ratio Lower Upper
57 100
41 35.5 28.3 42.5
56 32.7 25.8 38.6





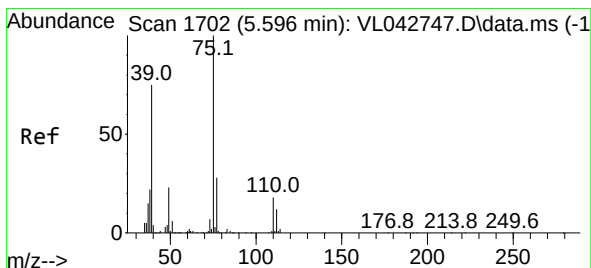
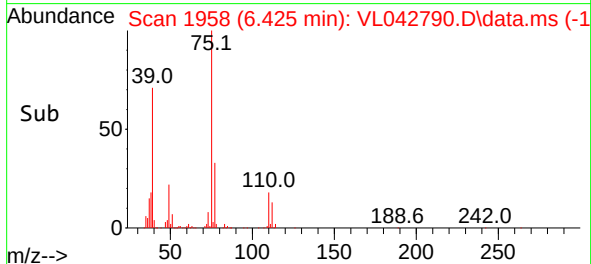
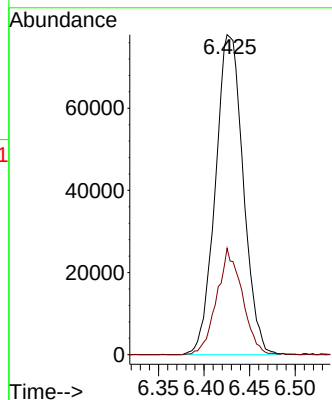
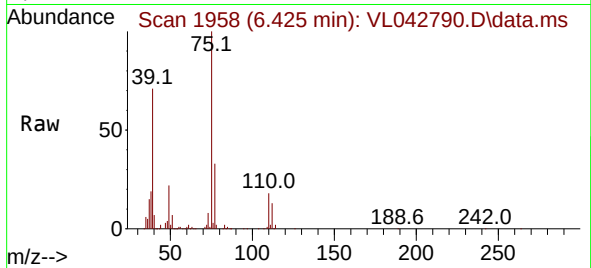
#45
 t-1,3-Dichloropropene
 Concen: 11.199 ppbv
 RT: 6.425 min Scan# 1954
 Delta R.T. 0.013 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 75 Resp: 165600
 Ion Ratio Lower Upper
 75 100
 77 33.3 22.4 33.6

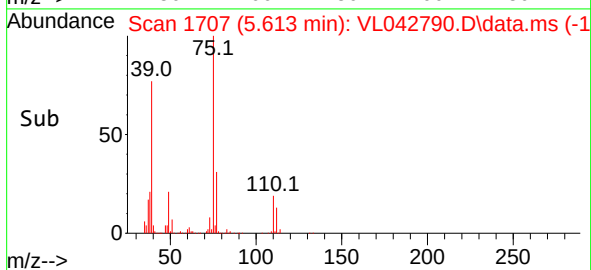
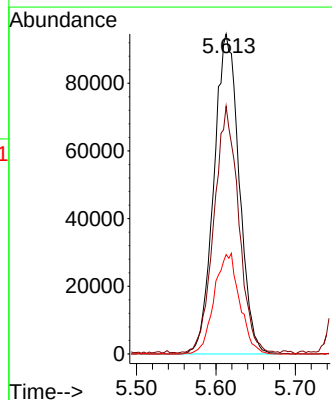
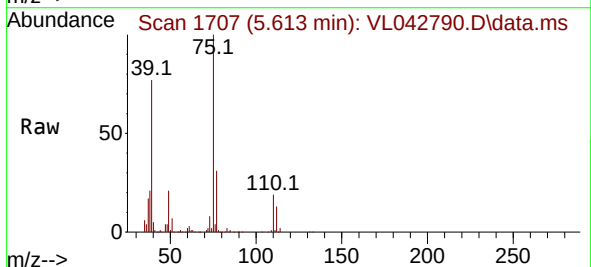
Manual Integrations
 APPROVED

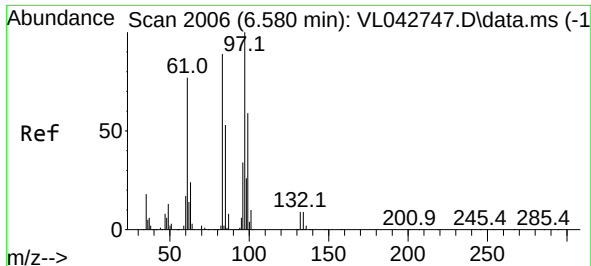
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.143 ppbv
 RT: 5.613 min Scan# 1707
 Delta R.T. 0.016 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

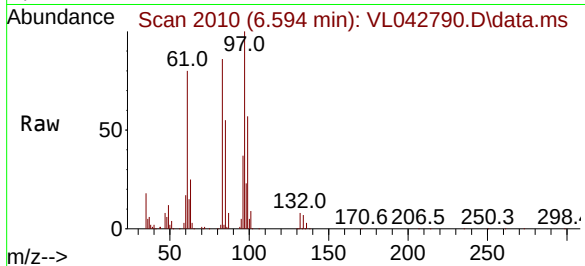
Tgt Ion: 75 Resp: 208804
 Ion Ratio Lower Upper
 75 100
 39 77.0 60.2 90.2
 77 31.0 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 10.587 ppbv
RT: 6.594 min Scan# 2006
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

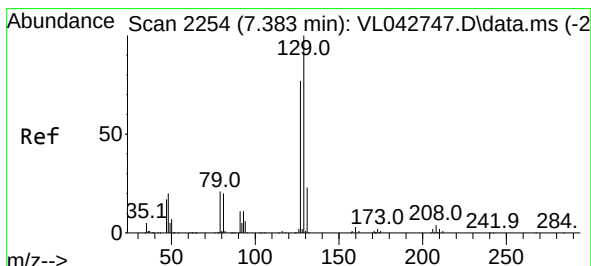
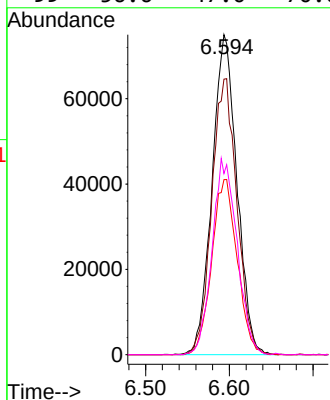
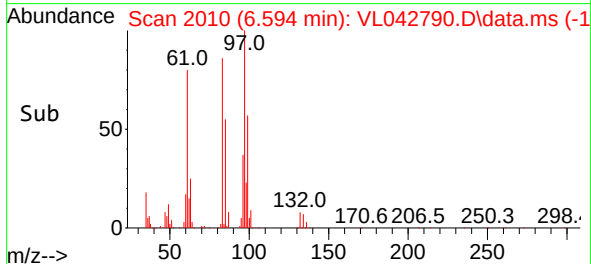
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



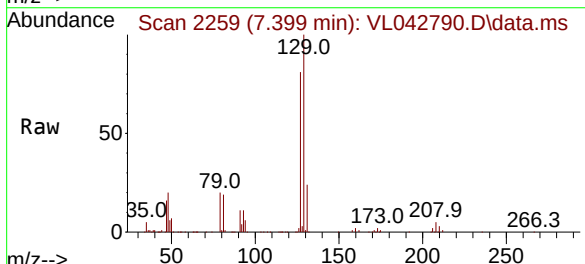
Tgt Ion: 97 Resp: 154552
Ion Ratio Lower Upper
97 100
83 86.1 71.1 106.7
85 54.7 43.0 64.4
99 56.6 47.0 70.6

Manual Integrations
APPROVED

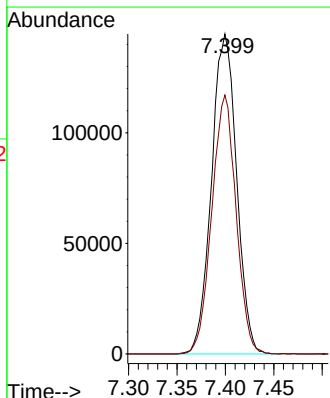
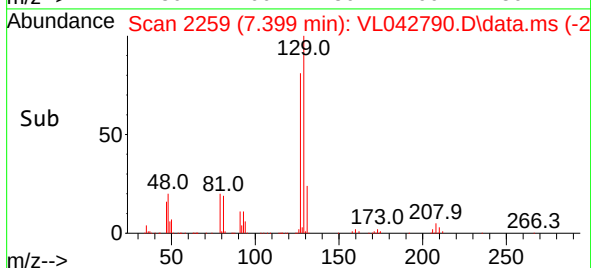
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

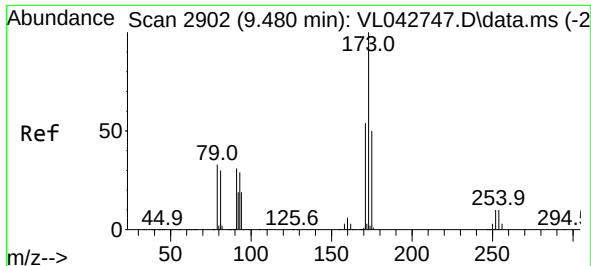


#48
Dibromochloromethane
Concen: 11.278 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



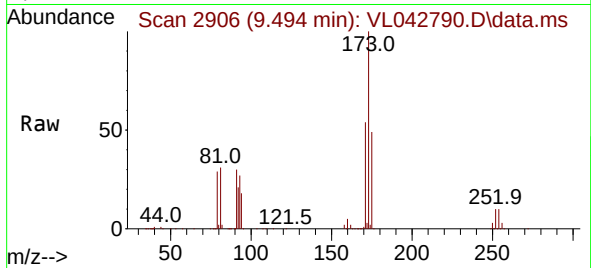
Tgt Ion:129 Resp: 261380
Ion Ratio Lower Upper
129 100
127 78.2 38.7 116.1





#49
Bromoform
Concen: 11.433 ppbv
RT: 9.494 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

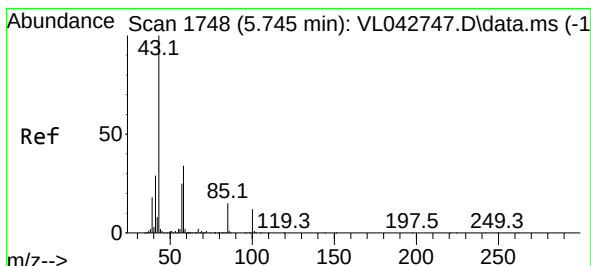
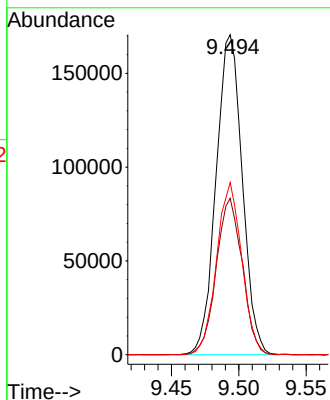
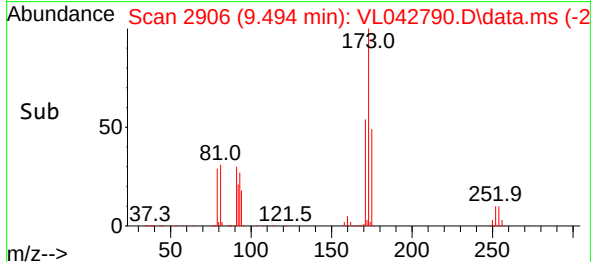
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion:173 Resp: 23102
Ion Ratio Lower Upper
173 100
175 48.6 38.4 57.6
171 51.8 40.9 61.3

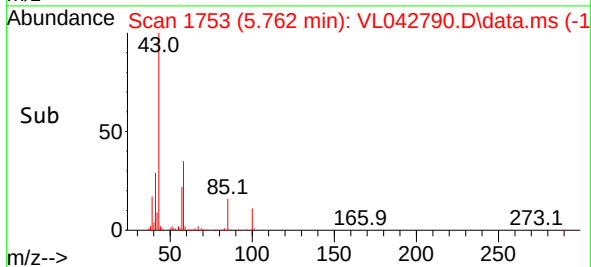
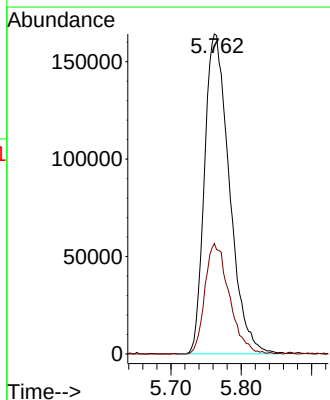
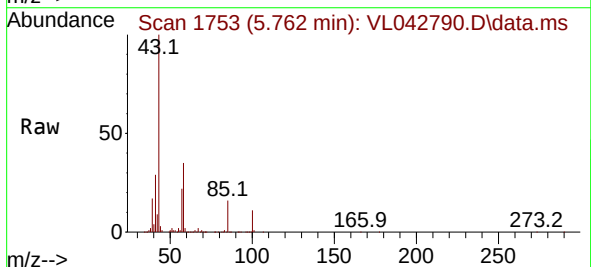
Manual Integrations
APPROVED

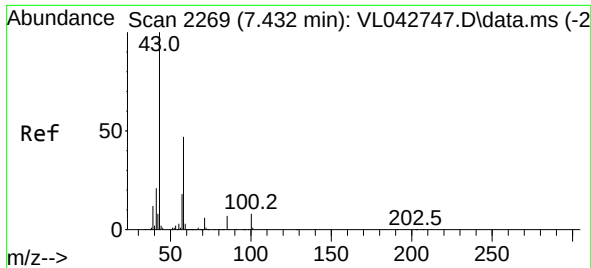
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#50
4-Methyl-2-Pentanone
Concen: 11.270 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

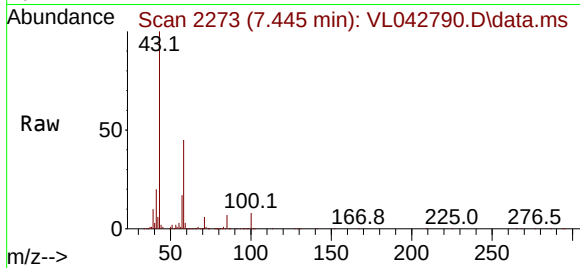
Tgt Ion: 43 Resp: 402543
Ion Ratio Lower Upper
43 100
58 34.0 27.8 41.8





#51
2-Hexanone
Concen: 11.895 ppbv
RT: 7.445 min Scan# 2107
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

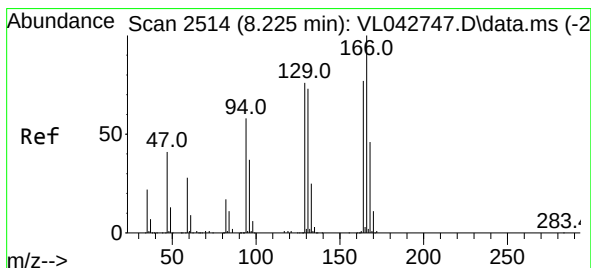
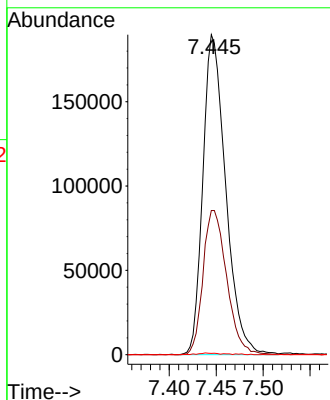
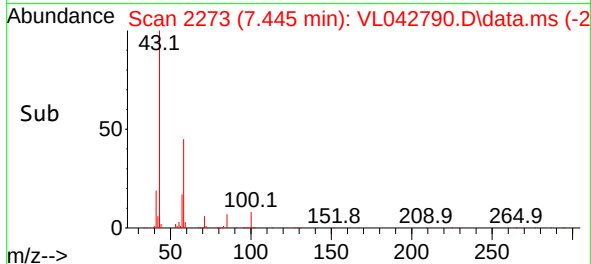
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



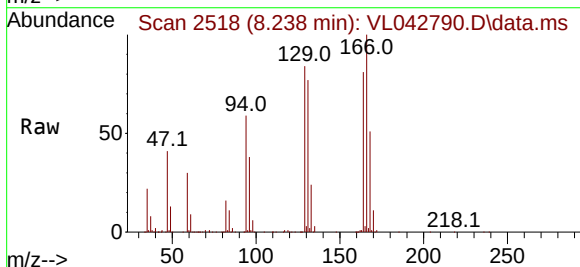
Tgt Ion: 43 Resp: 321070
Ion Ratio Lower Upper
43 100
58 46.7 38.0 57.0
98 0.6 0.2 0.4

Manual Integrations
APPROVED

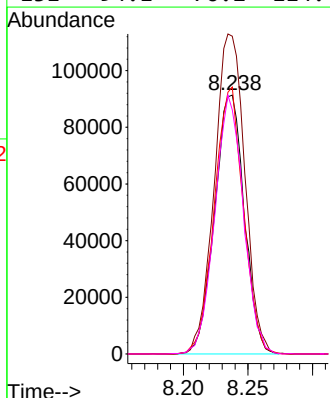
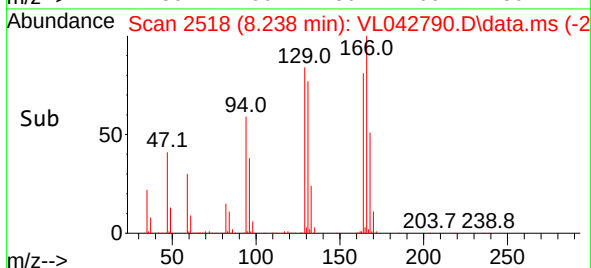
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

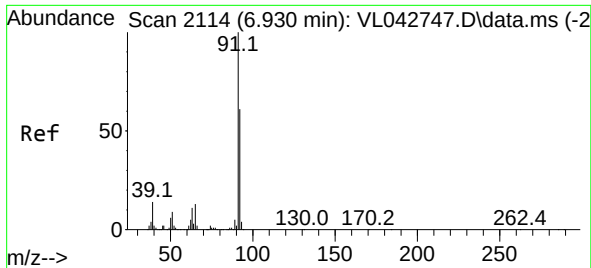


#52
Tetrachloroethene
Concen: 9.479 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion:164 Resp: 145761
Ion Ratio Lower Upper
164 100
166 122.6 104.0 156.0
129 103.0 79.2 118.8
131 94.1 76.2 114.4





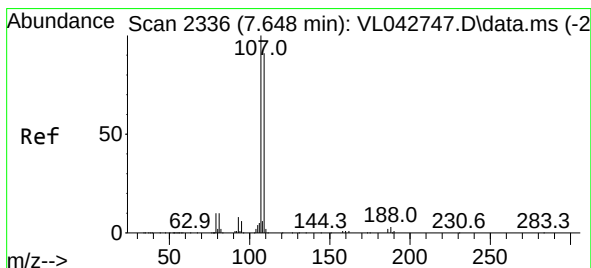
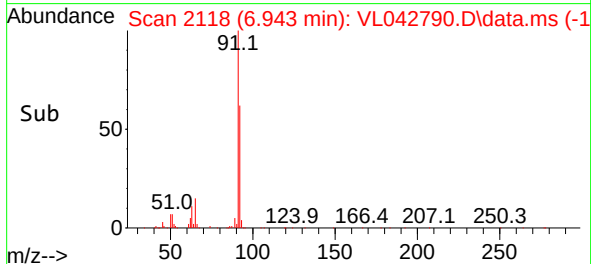
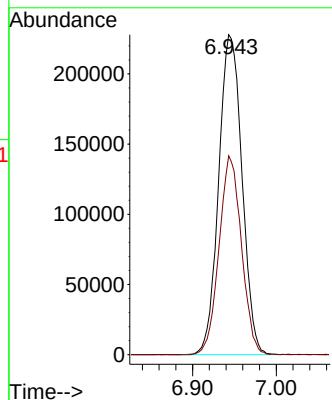
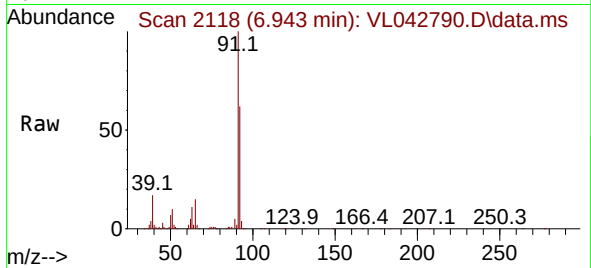
#53
Toluene
Concen: 11.041 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 91 Resp: 43986
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0

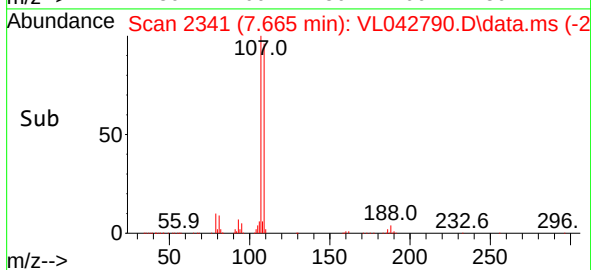
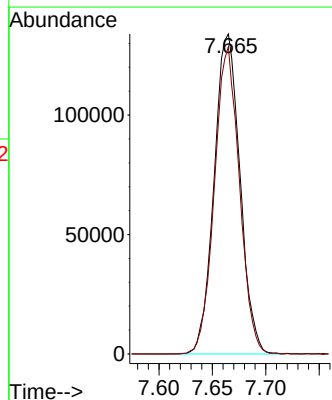
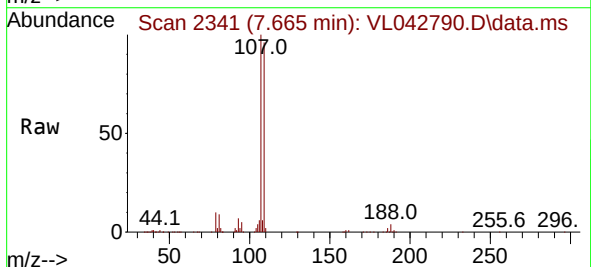
Manual Integrations
APPROVED

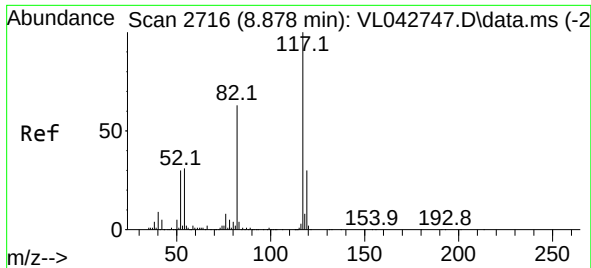
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#54
1,2-Dibromoethane
Concen: 10.928 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

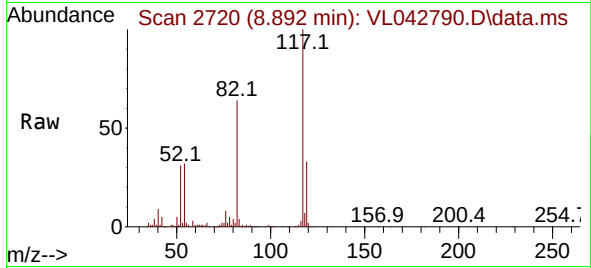
Tgt Ion:107 Resp: 225399
Ion Ratio Lower Upper
107 100
109 95.9 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2716
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

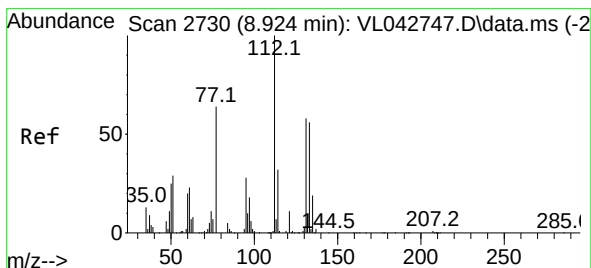
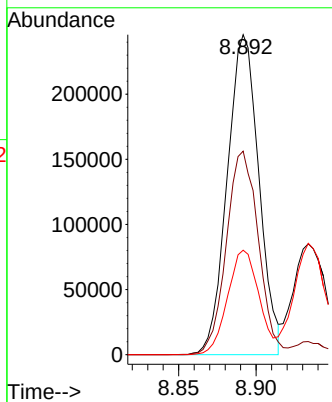
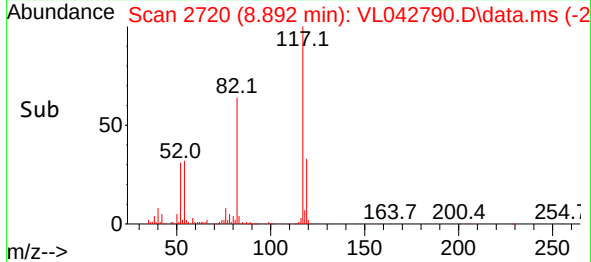
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



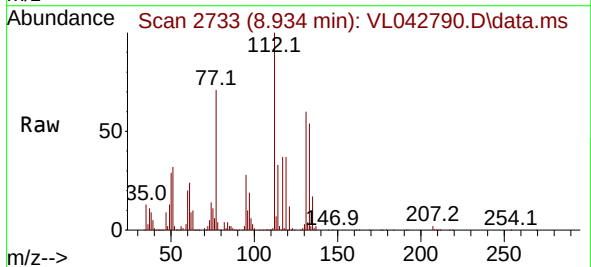
Tgt Ion:117 Resp: 349880
Ion Ratio Lower Upper
117 100
82 68.2 53.3 79.9
119 32.9 25.8 38.6

Manual Integrations
APPROVED

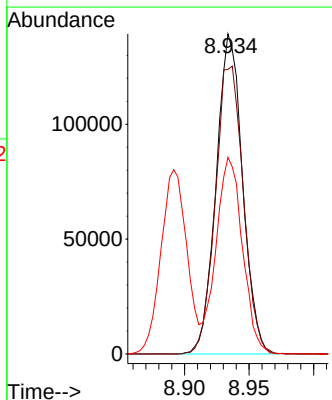
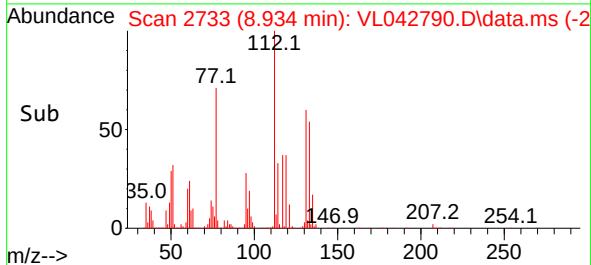
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

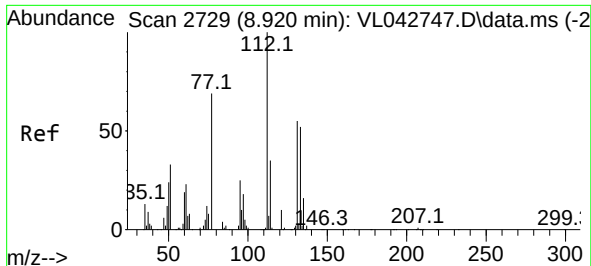


#56
1,1,1,2-Tetrachloroethane
Concen: 10.906 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



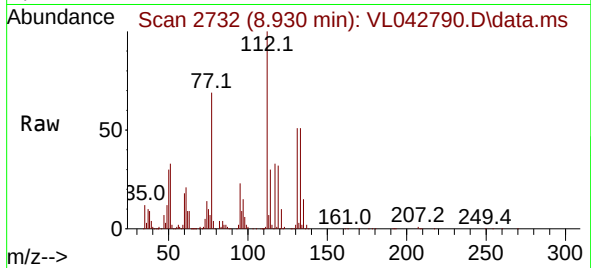
Tgt Ion:131 Resp: 198394
Ion Ratio Lower Upper
131 100
133 95.3 76.8 115.2
119 62.0 49.7 74.5





#57
Chlorobenzene
Concen: 10.386 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

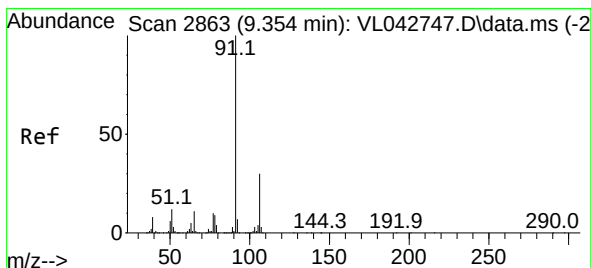
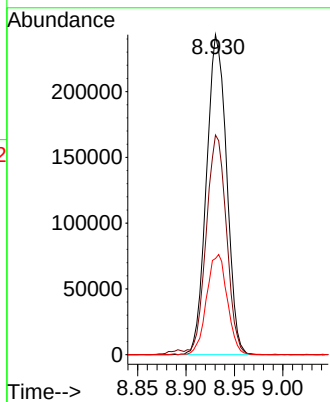
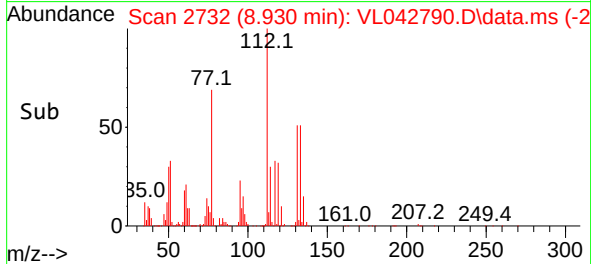
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion:112 Resp: 351678
Ion Ratio Lower Upper
112 100
77 68.6 56.4 84.6
114 30.0 31.2 38.2

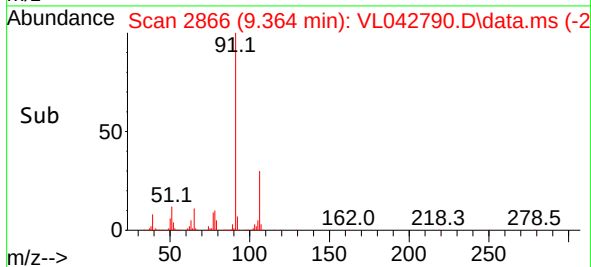
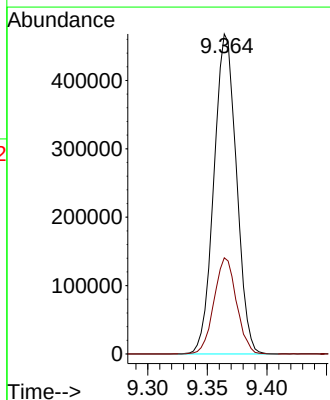
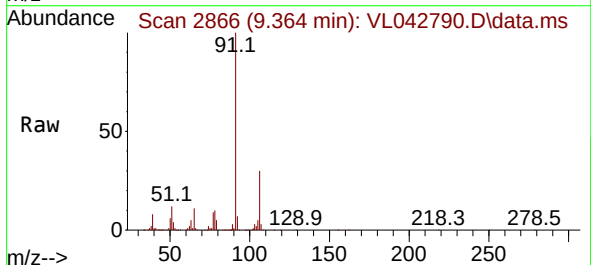
Manual Integrations
APPROVED

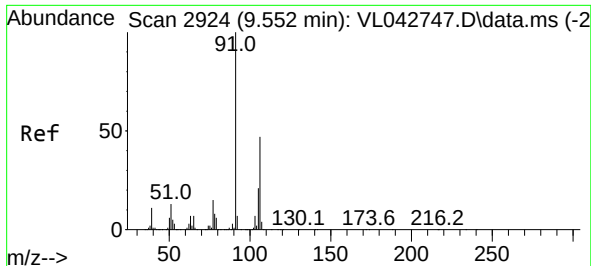
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#58
Ethyl Benzene
Concen: 11.121 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

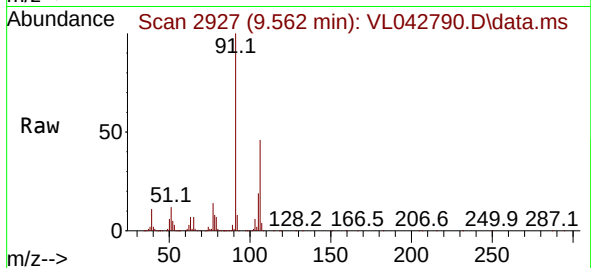
Tgt Ion: 91 Resp: 614495
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





#59
m/p-Xylene
Concen: 22.758 ppbv m
RT: 9.562 min Scan# 2924
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

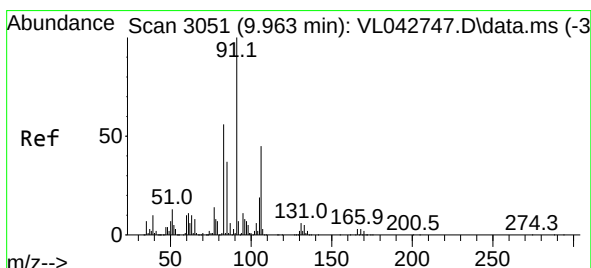
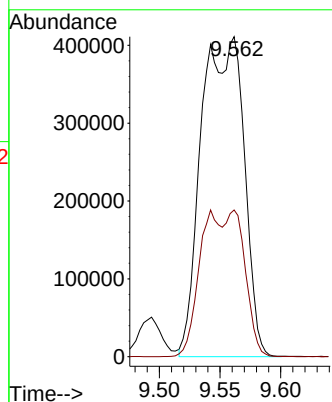
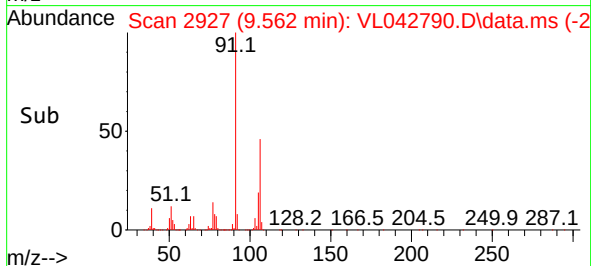
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



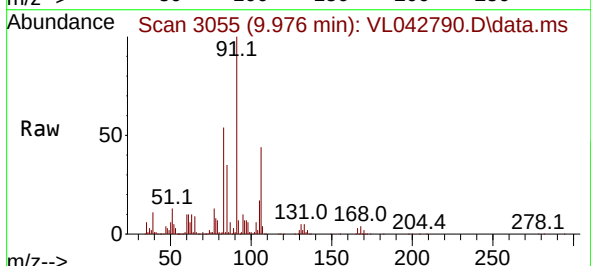
Tgt Ion: 91 Resp: 1004952
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

Manual Integrations
APPROVED

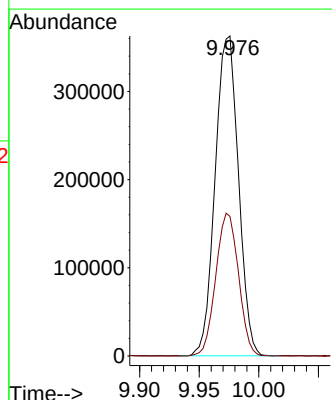
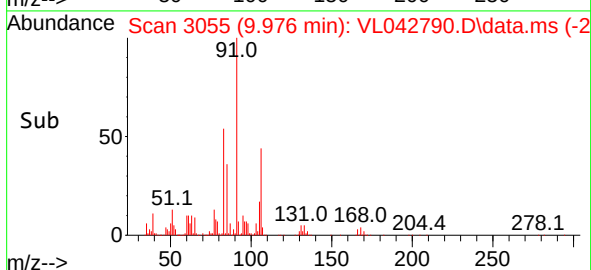
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

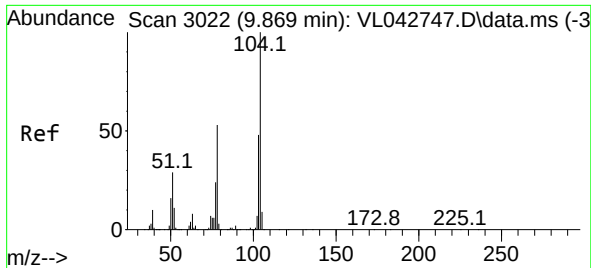


#60
o-Xylene
Concen: 11.188 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 91 Resp: 493686
Ion Ratio Lower Upper
91 100
106 43.5 22.0 66.0





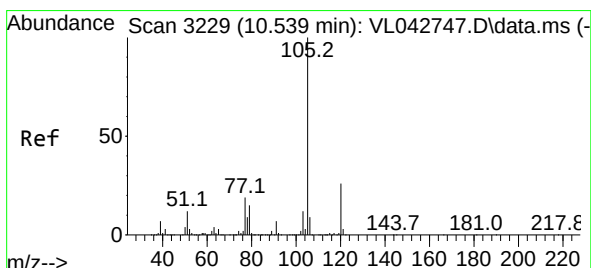
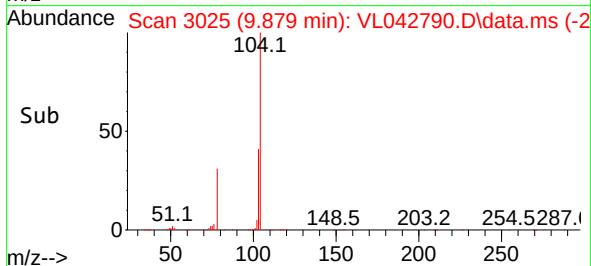
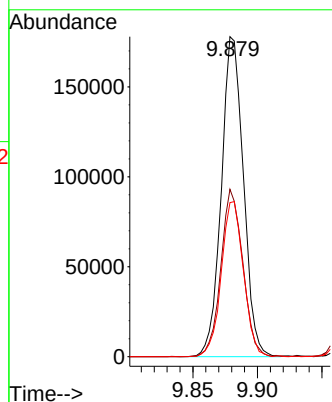
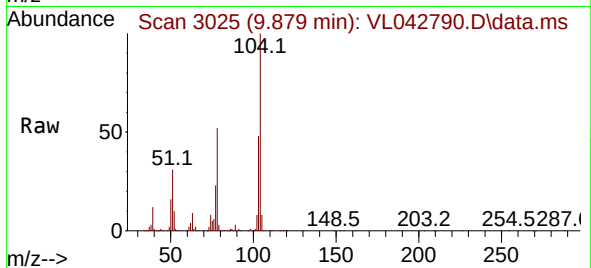
#61
Styrene
Concen: 11.406 ppbv
RT: 9.879 min Scan# 3022
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion:104 Resp: 211712
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 48.8 37.5 56.3

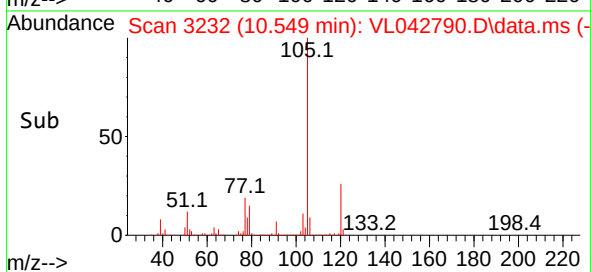
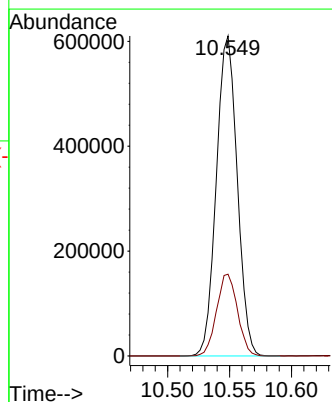
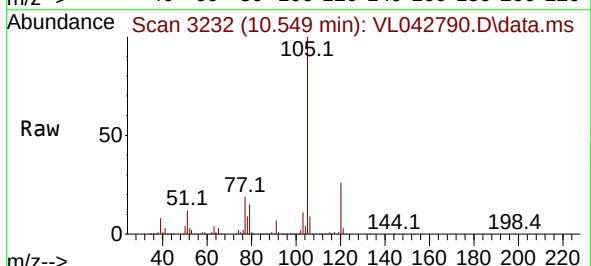
Manual Integrations
APPROVED

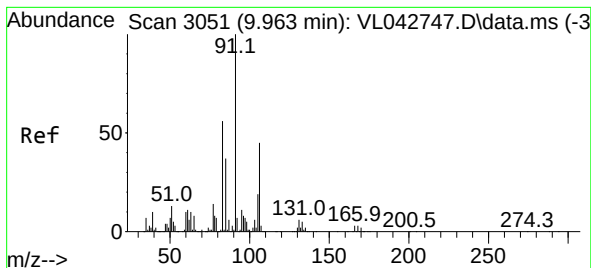
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#62
Isopropylbenzene
Concen: 11.007 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 716413
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7





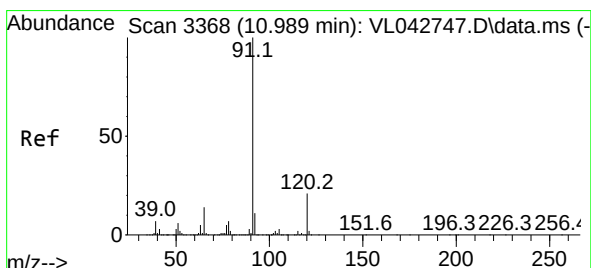
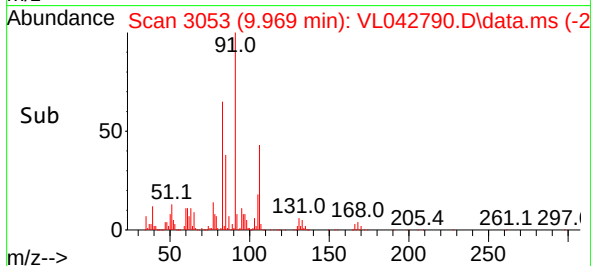
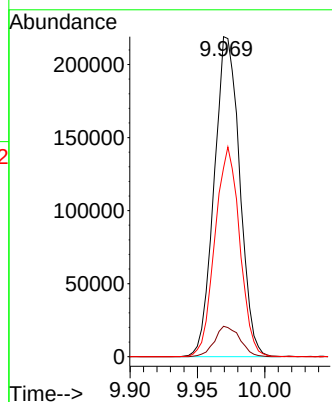
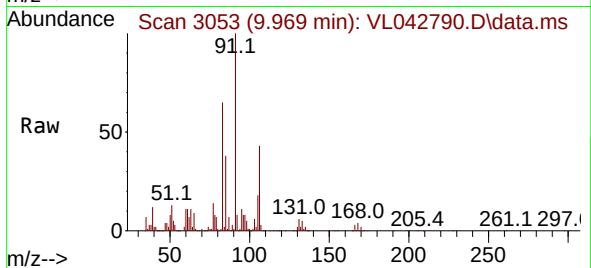
#63
1,1,2,2-Tetrachloroethane
Concen: 10.176 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument : MSVOA_1
ClientSampleId : VL0731ABS01

Tgt Ion: 83 Resp: 288264
Ion Ratio Lower Upper
83 100
131 9.5 5.0 15.0
85 63.7 32.6 97.7

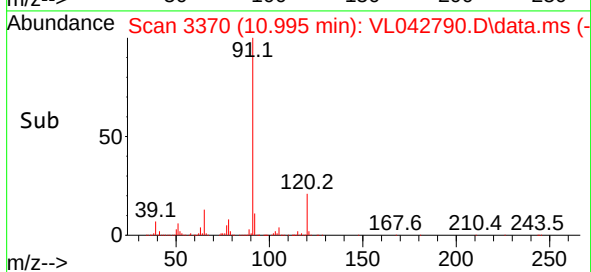
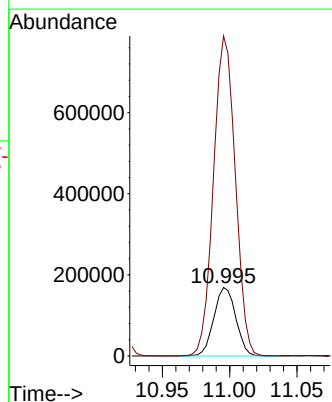
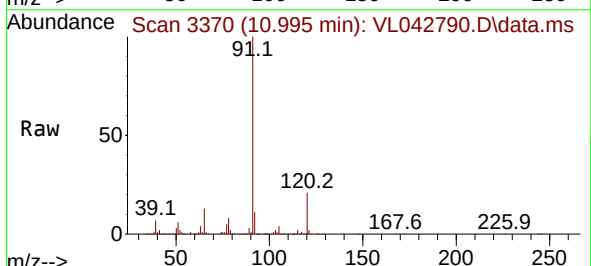
Manual Integrations
APPROVED

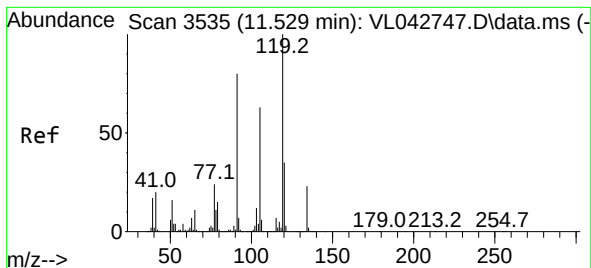
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#64
n-propylbenzene
Concen: 11.237 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

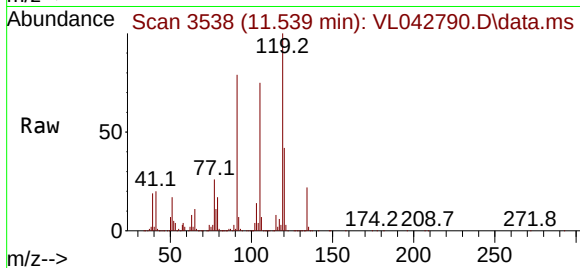
Tgt Ion:120 Resp: 190663
Ion Ratio Lower Upper
120 100
91 466.1 372.7 559.1





#65
tert-Butylbenzene
Concen: 11.322 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

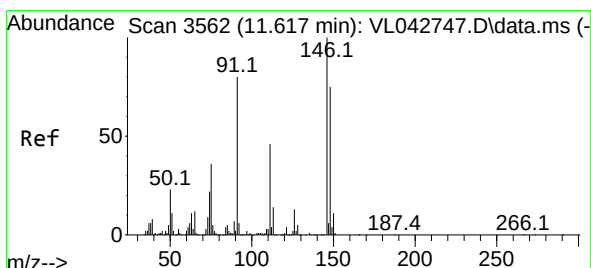
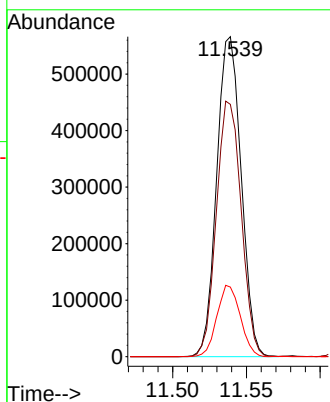
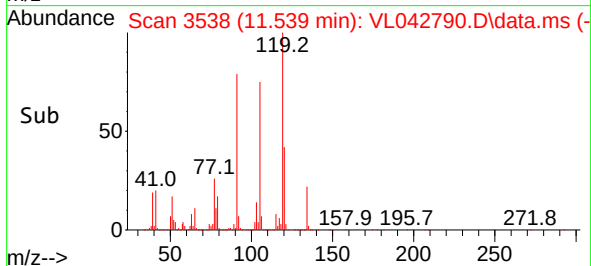
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



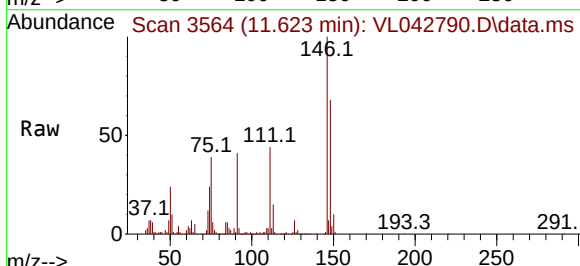
Tgt Ion: 119 Resp: 65456
Ion Ratio Lower Upper
119 100
91 81.1 64.0 96.0
134 21.3 17.3 25.9

Manual Integrations
APPROVED

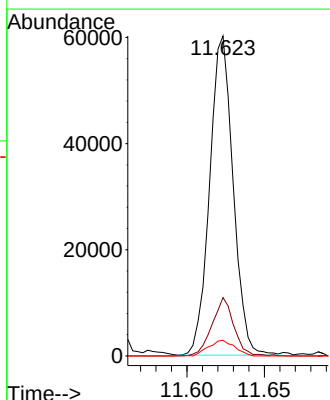
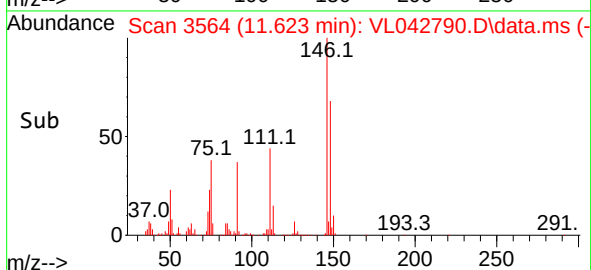
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

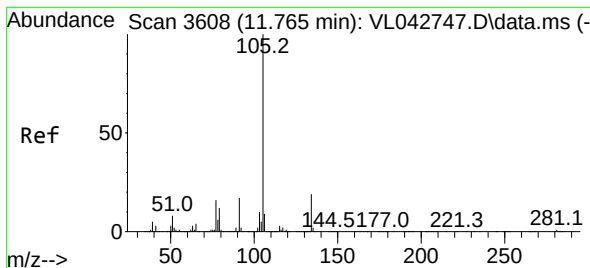


#66
Benzyl Chloride
Concen: 13.365 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



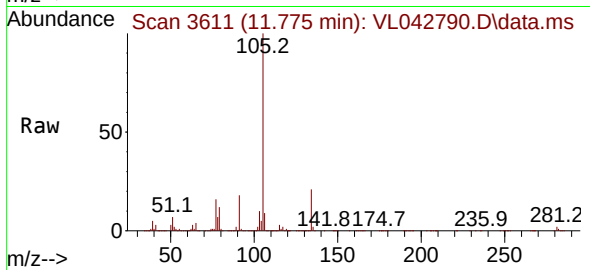
Tgt Ion: 91 Resp: 63429
Ion Ratio Lower Upper
91 100
126 17.1 14.4 21.6
128 5.5 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 11.065 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

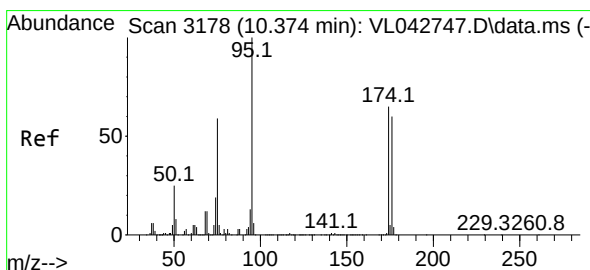
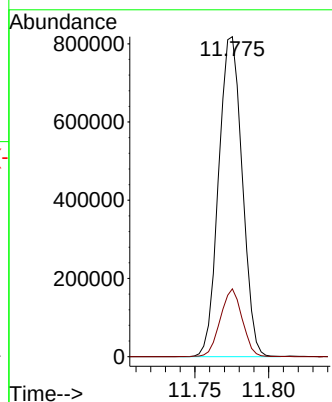
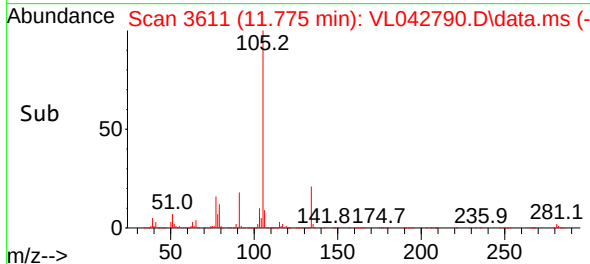
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion:105 Resp: 909814
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.5 23.3

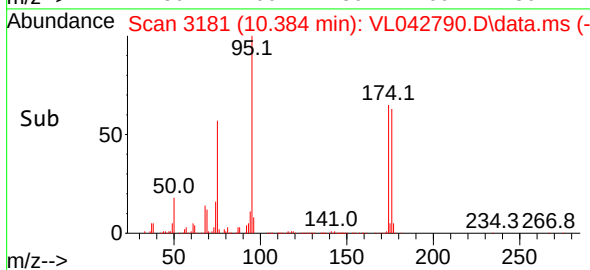
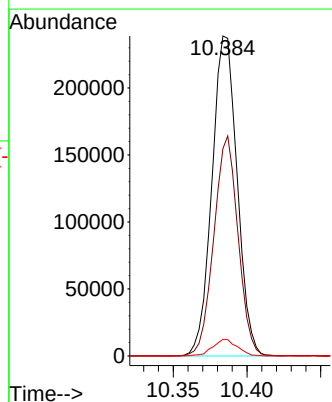
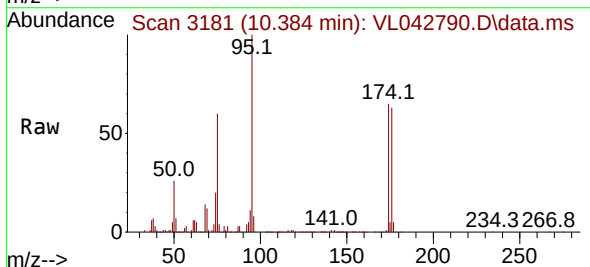
Manual Integrations
 APPROVED

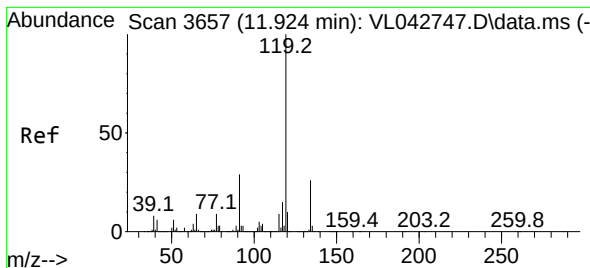
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.254 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

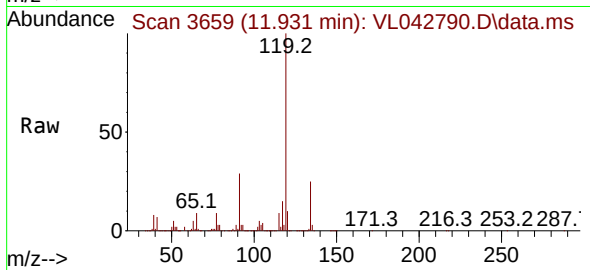
Tgt Ion: 95 Resp: 284130
 Ion Ratio Lower Upper
 95 100
 174 66.0 53.8 80.6
 175 5.1 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 11.553 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

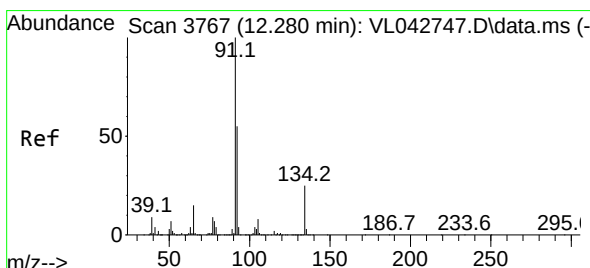
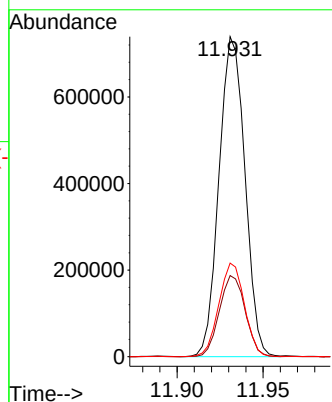
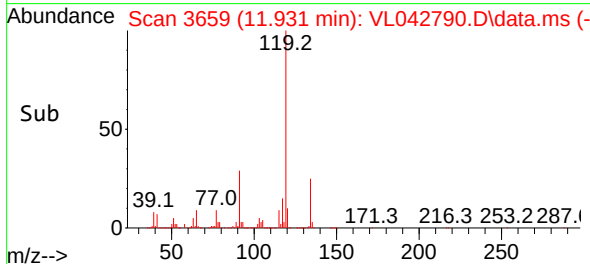
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



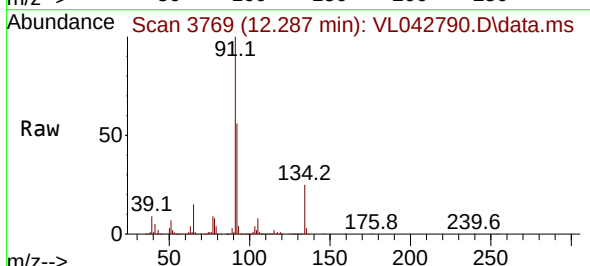
Tgt Ion:119 Resp: 77456
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 31.0
 91 29.0 23.2 34.8

Manual Integrations
 APPROVED

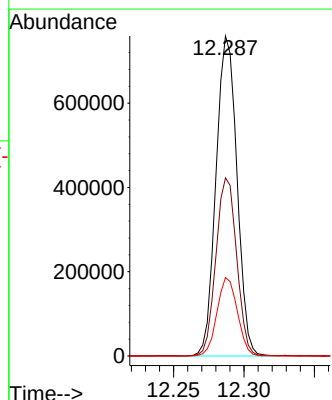
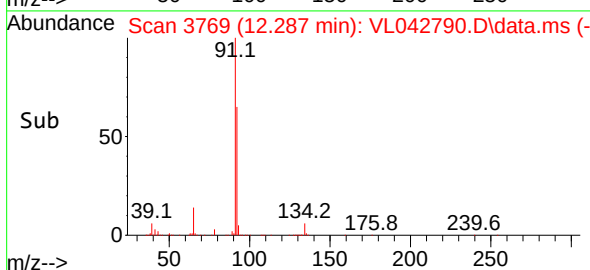
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

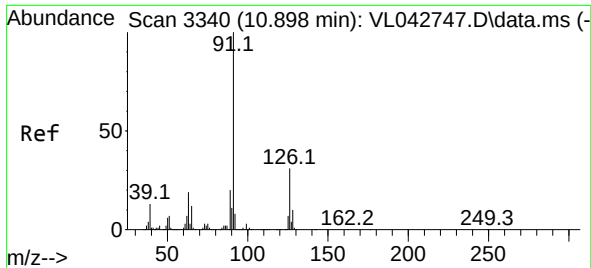


#70
 n-Butylbenzene
 Concen: 12.130 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



Tgt Ion: 91 Resp: 785569
 Ion Ratio Lower Upper
 91 100
 92 55.2 43.4 65.2
 134 23.9 19.6 29.4





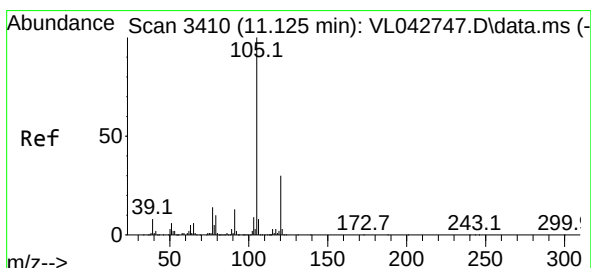
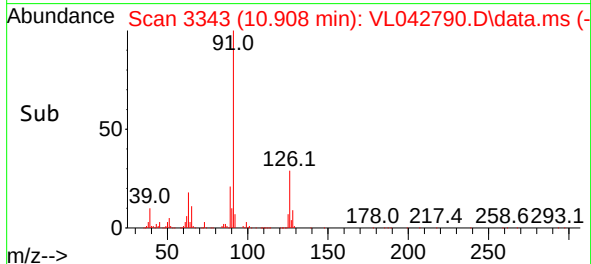
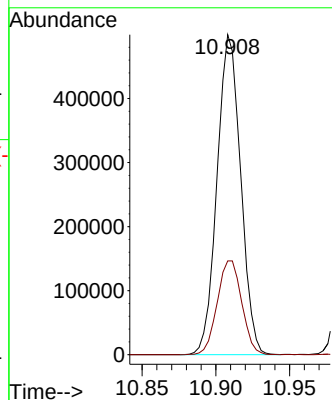
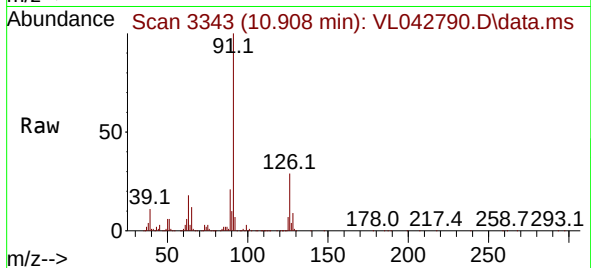
#71
2-Chlorotoluene
Concen: 11.153 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 91 Resp: 556610
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2

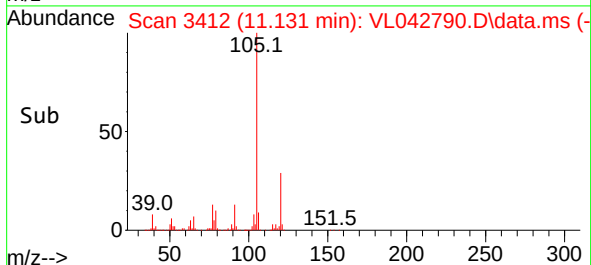
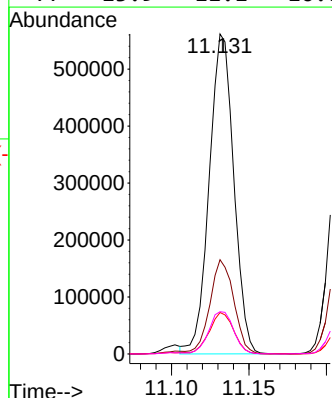
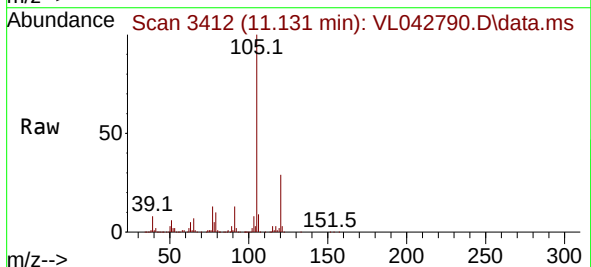
Manual Integrations
APPROVED

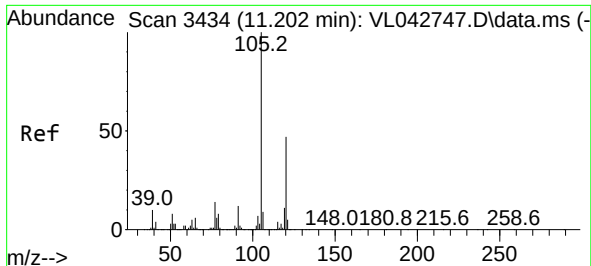
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#72
4-Ethyltoluene
Concen: 11.729 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 618091
Ion Ratio Lower Upper
105 100
120 29.5 24.4 36.6
91 13.3 10.6 15.8
77 13.9 11.1 16.7





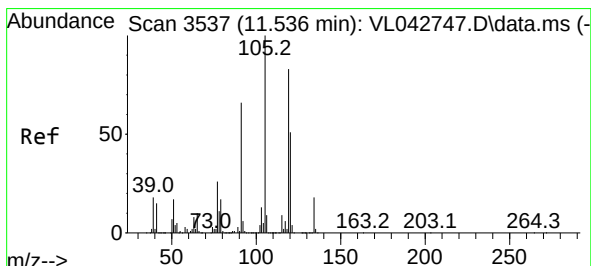
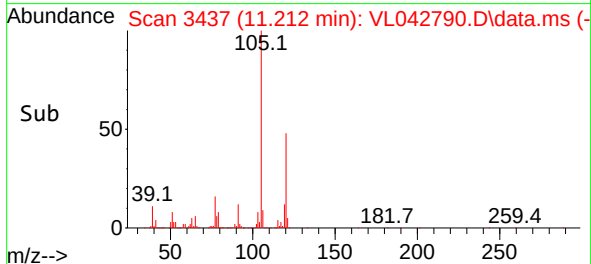
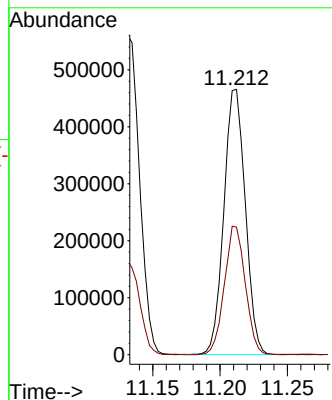
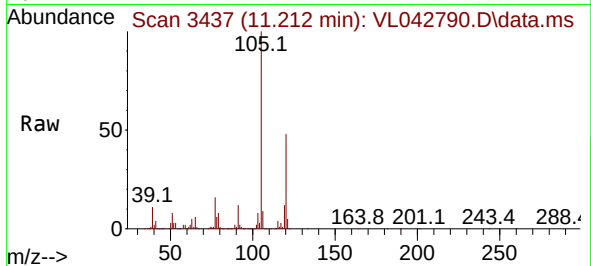
#73
1,3,5-Trimethylbenzene
Concen: 11.871 ppbv
RT: 11.212 min Scan# 3434
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion:105 Resp: 51504
Ion Ratio Lower Upper
105 100
120 48.1 37.8 56.8

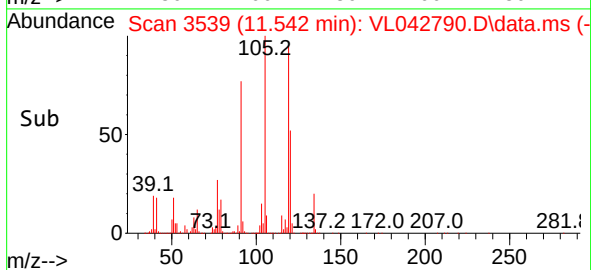
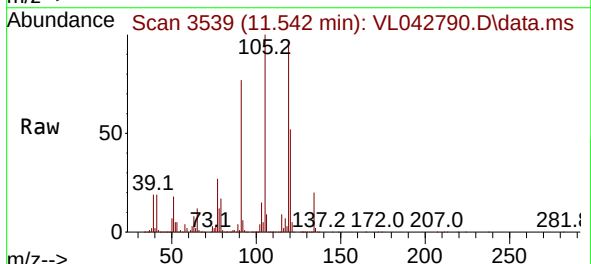
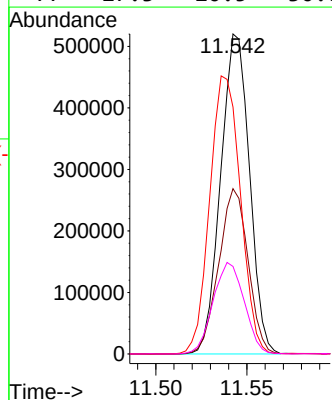
Manual Integrations
APPROVED

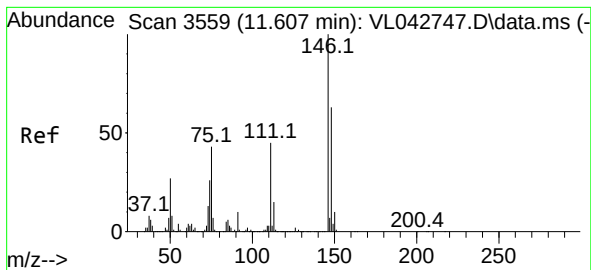
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#74
1,2,4-Trimethylbenzene
Concen: 12.057 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 570715
Ion Ratio Lower Upper
105 100
120 51.6 40.8 61.2
91 77.0 53.0 79.4
77 27.3 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 10.852 ppbv

RT: 11.614 min Scan# 3559

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

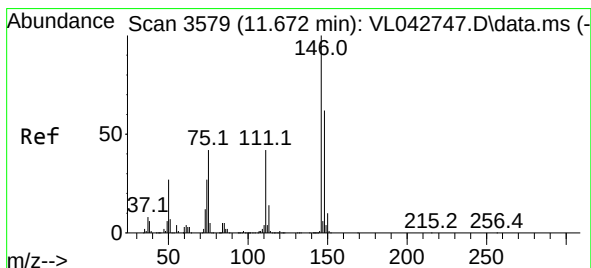
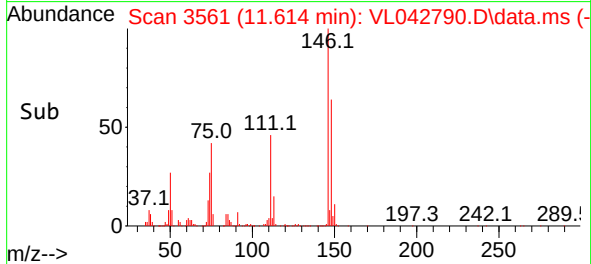
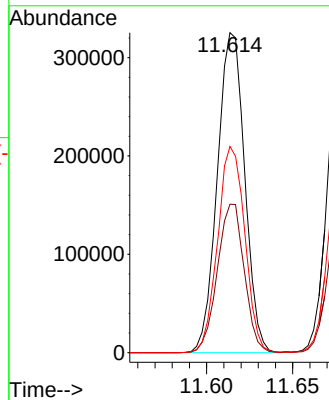
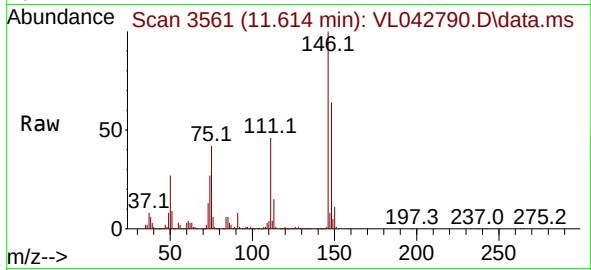
VL0731ABS01

Tgt Ion:146	Resp: 36009
Ion Ratio	Lower Upper
146	100
111	45.7 22.7 68.0
148	64.0 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#76

1,4-Dichlorobenzene

Concen: 11.273 ppbv

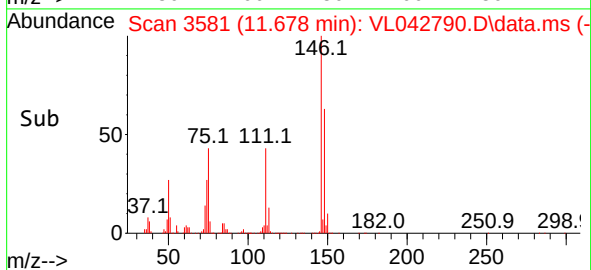
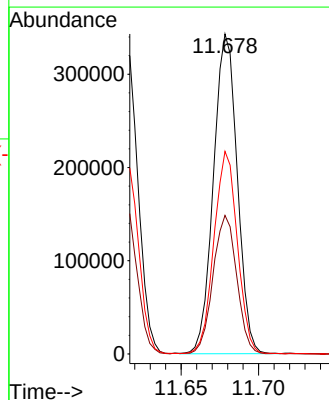
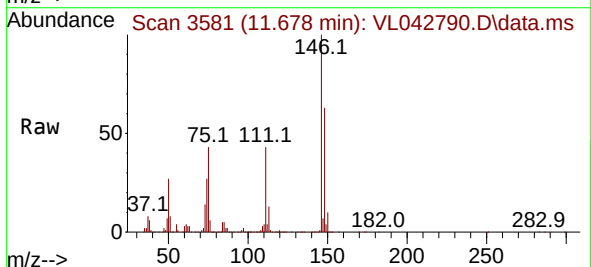
RT: 11.678 min Scan# 3581

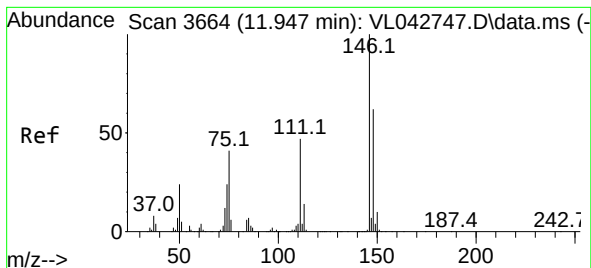
Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:146	Resp: 366048
Ion Ratio	Lower Upper
146	100
111	43.3 21.4 64.2
148	62.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.770 ppbv

RT: 11.953 min Scan# 30

Delta R.T. 0.007 min

Lab File: VL042790.D

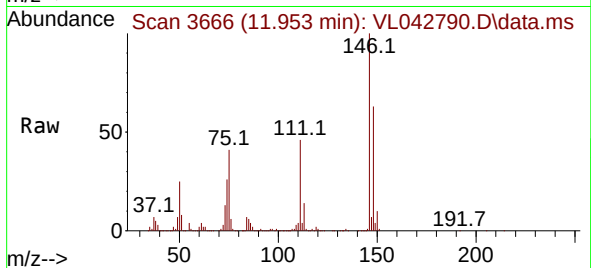
Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01



Tgt Ion:146 Resp: 35124

Ion Ratio Lower Upper

146 100

111 46.8 23.7 71.1

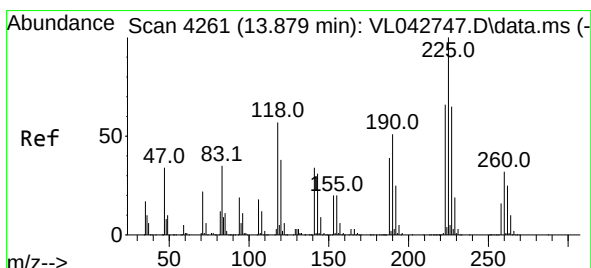
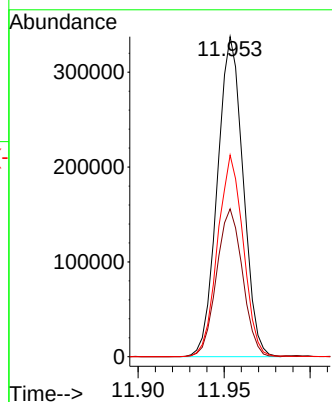
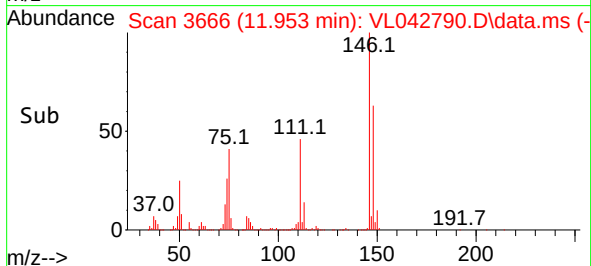
148 62.8 32.6 97.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.538 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

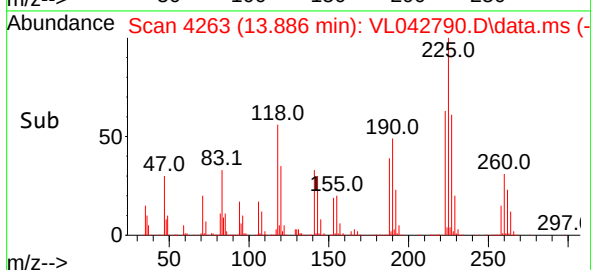
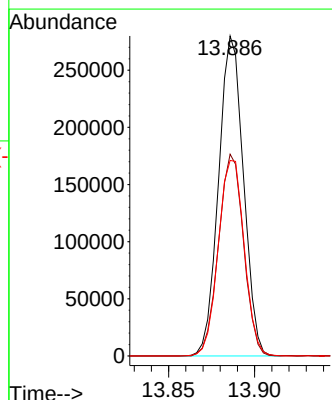
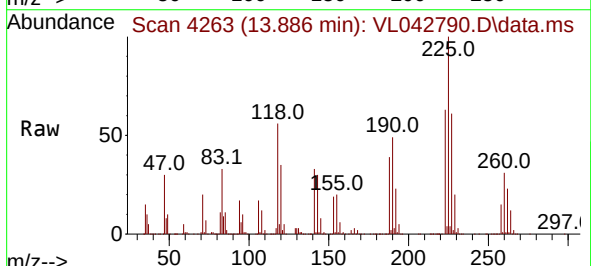
Tgt Ion:225 Resp: 281564

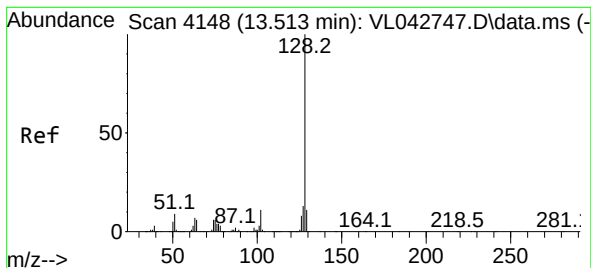
Ion Ratio Lower Upper

225 100

223 63.5 50.7 76.1

227 63.9 50.5 75.7





#79

Naphthalene

Concen: 10.494 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

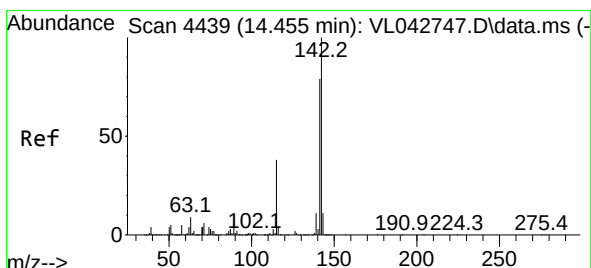
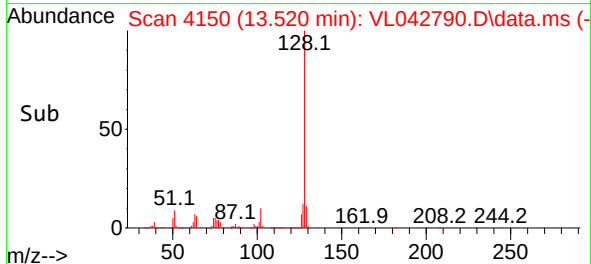
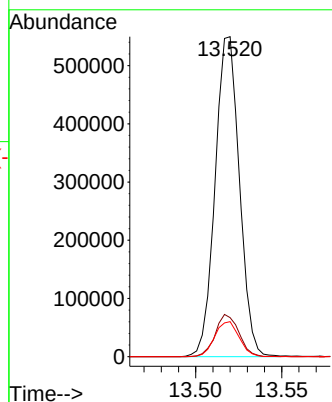
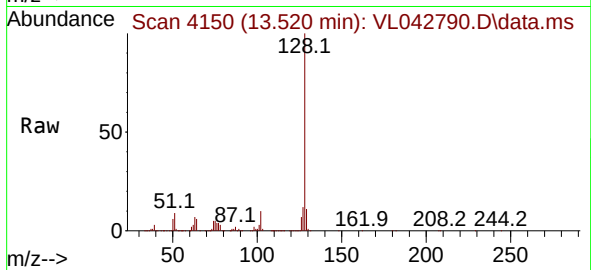
VL0731ABS01

Tgt Ion:	128	Resp:	54012
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.5	15.7
129	10.9	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#80

Naphthalene,2-methyl-

Concen: 8.786 ppbv

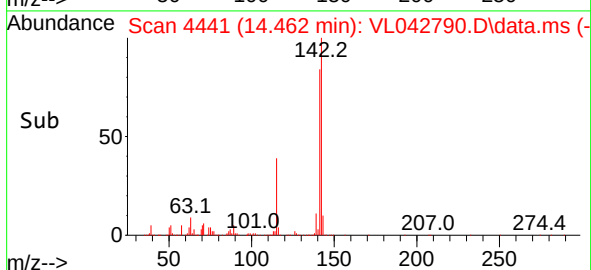
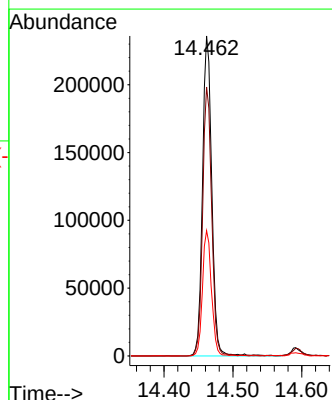
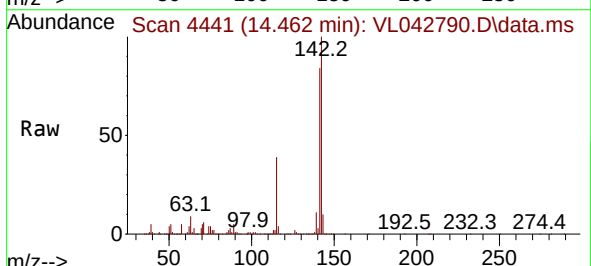
RT: 14.462 min Scan# 4441

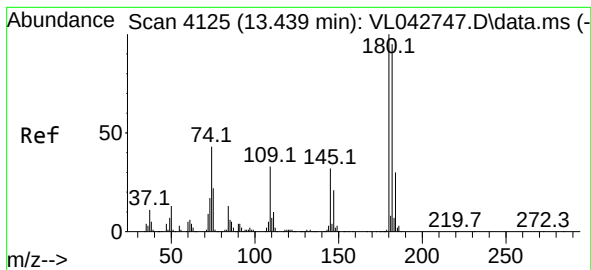
Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

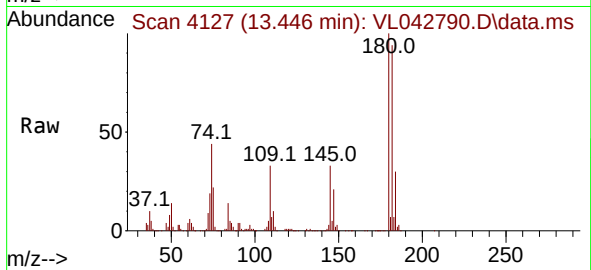
Tgt Ion:	142	Resp:	221690
Ion Ratio	Lower	Upper	
142	100		
141	82.4	65.8	98.8
115	38.3	31.2	46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.565 ppbv
 RT: 13.446 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

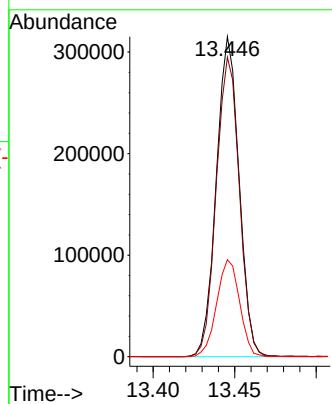
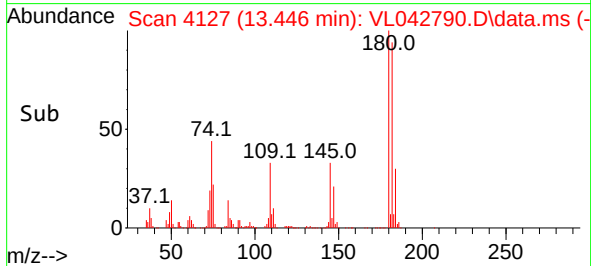
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion:180 Resp: 305698
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.2 114.2
 184 30.5 24.8 37.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABSD01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042794.D	1		07/31/25 13:55	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	10.1	35.7		0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	9.70	48.0		0.54	2.47	ug/m3
64-17-5	Ethanol	8.30	15.6		0.60	0.94	ug/m3
74-87-3	Chloromethane	9.20	19.0		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.40	21.5		0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	10.3	40.9		0.48	1.98	ug/m3
74-83-9	Bromomethane	9.10	35.3		0.31	1.94	ug/m3
75-00-3	Chloroethane	8.80	23.2		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.4	33.6		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.00	50.6		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40	72.0		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.30	65.0		1.05	3.49	ug/m3
593-60-2	Bromoethene	9.00	39.4		0.87	2.19	ug/m3
115-07-1	Propene	7.50	12.9		0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	8.80	26.7		0.49	1.52	ug/m3
142-82-5	Heptane	10.6	43.4		0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.50	20.9		0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	8.90	35.3		0.59	1.98	ug/m3
67-64-1	Acetone	7.40	17.6		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	10.0	31.1		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.00	32.5		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	8.50	29.5		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.20	36.5		0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	11.1	40.0		0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	9.20	37.2		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.70	33.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.7	31.6		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	11.0	69.2		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.40	1.98	ug/m3
67-66-3	Chloroform	10.2	49.8		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.3	52.8		0.65	2.34	ug/m3
71-43-2	Benzene	10.7	34.2		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.8	43.7		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.0	53.7		0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABSD01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042794.D	1		07/31/25 13:55	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	10.7	49.5		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	11.3	75.7		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.5	47.1		0.41	2.05	ug/m3
108-88-3	Toluene	11.1	41.8		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.0	49.9		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.2	50.9		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.9	59.5		0.44	2.73	ug/m3
591-78-6	2-Hexanone	12.2	49.9		0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	11.5	98.0		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11.2	86.1		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	9.50	64.4		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.5	48.4		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	11.2	48.6		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	23.3	101		1.78	4.34	ug/m3
1330-20-7	Total Xylenes	34.9	152		2.69	6.52	ug/m3
95-47-6	o-Xylene	11.6	50.4		0.91	2.17	ug/m3
100-42-5	Styrene	11.8	50.2		0.68	2.13	ug/m3
75-25-2	Bromoform	11.8	122		0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	11.3	55.5		0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.3	70.7		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.3	58.5		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	12.1	59.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	12.2	60.0		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	11.2	67.3		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.3	67.9		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	11.0	66.1		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.8	80.2		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.90	106		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	8.90	19.7		0.11	1.11	ug/m3
91-20-3	Naphthalene	10.8	56.6		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.9	58.5		1.03	2.46	ug/m3
110-54-3	Hexane	10.1	35.6		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	9.30	29.1		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	9.90	35.7		0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	13.6	70.4		0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	11.3	46.3		0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABSD01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042794.D	1		07/31/25 13:55	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	143000		2.79			
540-36-3	1,4-Difluorobenzene	385000		3.965			
3114-55-4	Chlorobenzene-d5	348000		8.888			

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\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:15:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 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	2.790	49	143361	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	385270	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347681	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 285966 10.386 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	183911	9.703	ppbv	98
3) Chlorodifluoromethane	1.476	51	250299	10.137	ppbv	99
4) Chloromethane	1.534	50	70831	9.237	ppbv	97
5) Vinyl Chloride	1.580	62	63417	8.370	ppbv	98
6) Bromomethane	1.670	94	26564	9.069	ppbv	92
7) Chloroethane	1.706	64	25813	8.818	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	145635	9.343	ppbv	99
9) Propene	1.482	41	67742	7.549	ppbv	90
10) Heptane	4.988	43	256581	10.604	ppbv	98
11) Trichlorofluoromethane	1.877	101	175951	9.005	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139531	9.398	ppbv	99
13) Ethanol	1.722	45	6169	8.289	ppbv	96
14) Bromoethene	1.783	108	47516	9.039	ppbv	97
15) Acetone	1.835	43	145544	7.352	ppbv	99
16) 1,3-Butadiene	1.609	39	75425	8.933	ppbv	100
17) tert-Butyl alcohol	2.042	59	157530	8.823	ppbv	99
18) 1,1-Dichloroethene	2.036	96	59735	8.904	ppbv	92
19) Isopropyl Alcohol	1.887	45	89890	8.545	ppbv	94
20) Methylene Chloride	2.062	84	53184	8.525	ppbv	92
21) Allyl Chloride	2.097	41	113975	9.342	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	66660	9.237	ppbv	90
23) Vinyl Acetate	2.463	43	267217	11.134	ppbv	99
24) 1,1-Dichloroethane	2.411	63	136610	9.222	ppbv	99
25) Ethyl Acetate	2.839	43	450028	10.270	ppbv	99
26) Hexane	2.829	57	193724	10.078	ppbv	98
27) Carbon Disulfide	2.152	76	164945	10.023	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	81968	9.026	ppbv	99
29) Chloroform	2.852	83	302251	10.176	ppbv	100
30) Cyclohexane	3.865	84	158206	9.705	ppbv	93
31) cis-1,2-Dichloroethene	2.722	61	189601	9.599	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	297175	9.605	ppbv	98
34) 2-Butanone	2.560	43	293015	10.737	ppbv	100
35) Carbon Tetrachloride	3.768	117	315193	11.014	ppbv	97
36) Benzene	3.661	78	389839	10.677	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236593	10.756	ppbv	100
38) Trichloroethene	4.557	130	174966	9.974	ppbv	97
39) 1,2-Dichloropropane	4.318	63	144769	10.741	ppbv	99
40) 1,4-Dioxane	4.590	88	61985	9.866	ppbv #	97
41) Tetrahydrofuran	3.059	42	157948	11.374	ppbv	97
42) Bromodichloromethane	4.496	83	324724	11.336	ppbv	98
43) Methyl Methacrylate	4.887	69	147145	11.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	673176	11.311	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	159751	10.976	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:15:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 11:13:20 2025

QLast Update : Thu Jul 24 05:24:41 2025

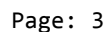
Response via : Initial Calibration

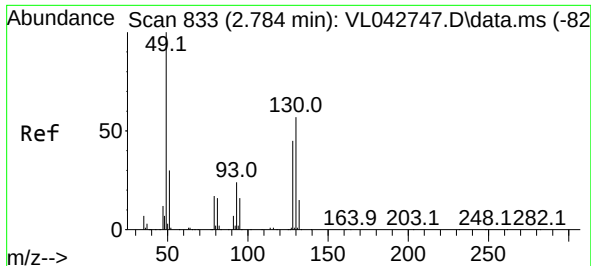
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	205816	11.160	ppbv	97
47) 1,1,2-Trichloroethane	6.590	97	156216	10.873	ppbv	98
48) Dibromochloromethane	7.396	129	262522	11.510	ppbv	99
49) Bromoform	9.493	173	234893	11.811	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	403132	11.467	ppbv	98
51) 2-Hexanone	7.441	43	322822	12.152	ppbv #	98
52) Tetrachloroethene	8.234	164	144051	9.518	ppbv	94
53) Toluene	6.943	91	436601	11.135	ppbv	99
54) 1,2-Dibromoethane	7.661	107	226779	11.172	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	199484	11.035	ppbv	99
57) Chlorobenzene	8.930	112	353946	10.519	ppbv	97
58) Ethyl Benzene	9.364	91	615615	11.212	ppbv	100
59) m/p-Xylene	9.558	91	1021929m	23.289	ppbv	
60) o-Xylene	9.969	91	509306	11.615	ppbv	99
61) Styrene	9.878	104	217878	11.813	ppbv	99
62) Isopropylbenzene	10.545	105	731077	11.304	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	290577	10.323	ppbv	99
64) n-propylbenzene	10.995	120	196210	11.637	ppbv	100
65) tert-Butylbenzene	11.535	119	656497	11.427	ppbv	99
66) Benzyl Chloride	11.623	91	64301	13.634	ppbv	99
67) sec-Butylbenzene	11.772	105	929357	11.374	ppbv	100
69) p-Isopropyltoluene	11.930	119	783925	11.766	ppbv	100
70) n-Butylbenzene	12.286	91	802758	12.474	ppbv	99
71) 2-Chlorotoluene	10.908	91	560672	11.306	ppbv	99
72) 4-Ethyltoluene	11.131	105	622768	11.893	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	522269	12.114	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	576097	12.248	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	370097	11.224	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	365448	11.326	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	357874	11.043	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	289316	9.863	ppbv	99
79) Naphthalene	13.516	128	552592	10.791	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	210490	8.445	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	310917	10.803	ppbv	99

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

Manual Integrations

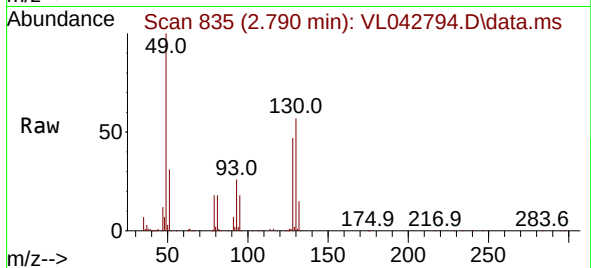
Quant Time: Aug 01 01:15:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

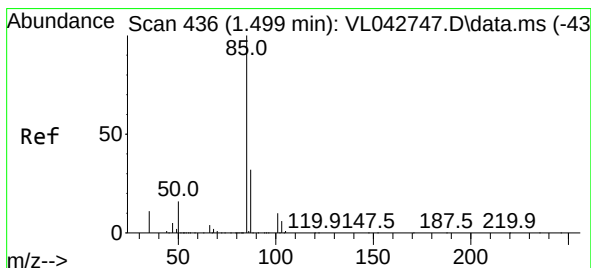
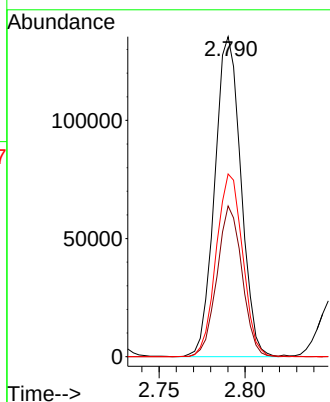
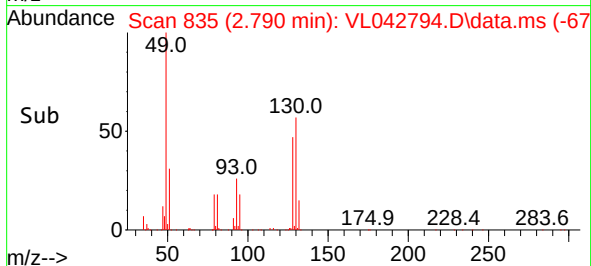
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 49 Resp: 14336
Ion Ratio Lower Upper
49 100
128 45.1 23.6 71.0
130 57.8 30.3 90.8

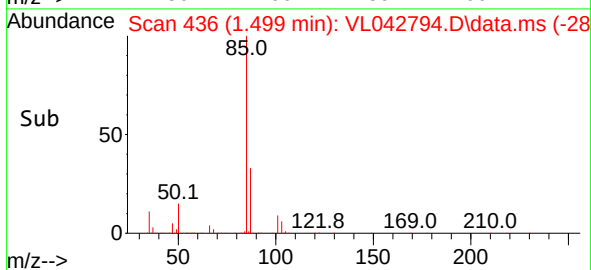
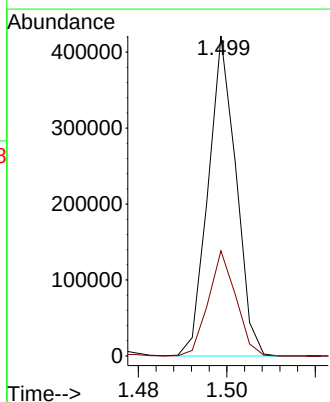
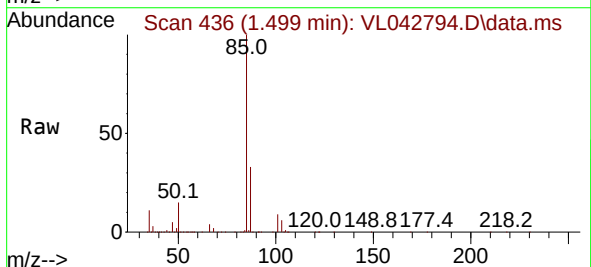
Manual Integrations
APPROVED

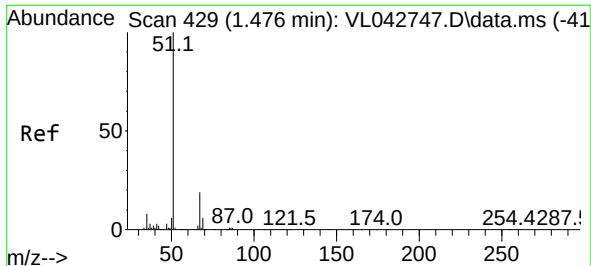
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#2
Dichlorodifluoromethane
Concen: 9.703 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

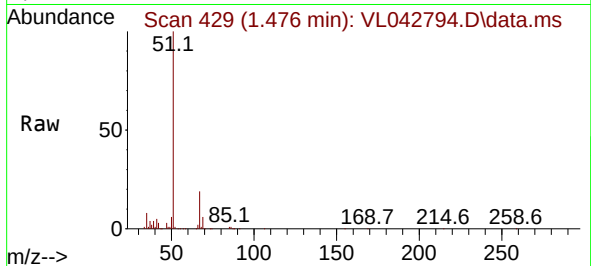
Tgt Ion: 85 Resp: 183911
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2





#3
Chlorodifluoromethane
Concen: 10.137 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

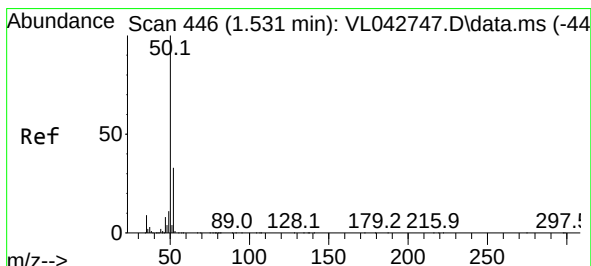
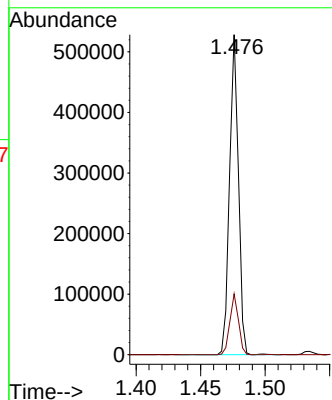
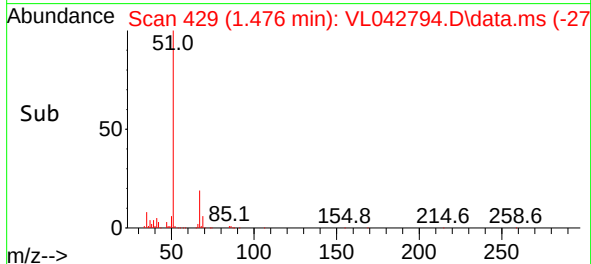
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



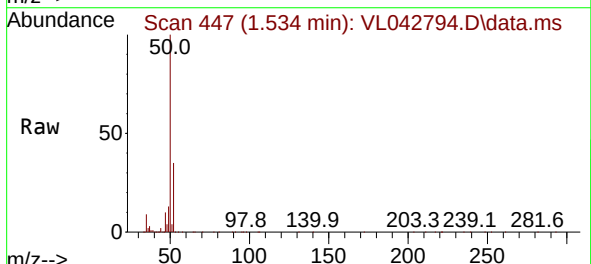
Tgt Ion: 51 Resp: 250299
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6

Manual Integrations
APPROVED

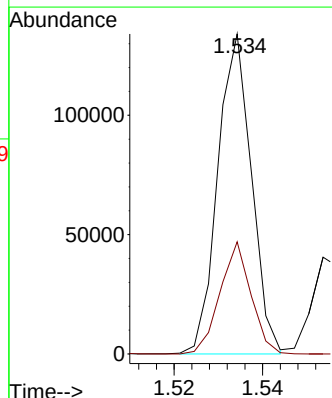
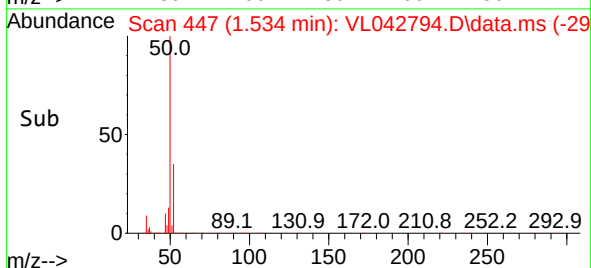
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

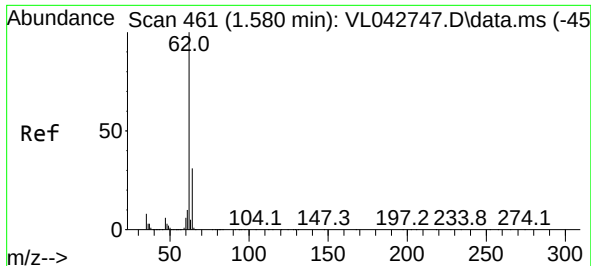


#4
Chloromethane
Concen: 9.237 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



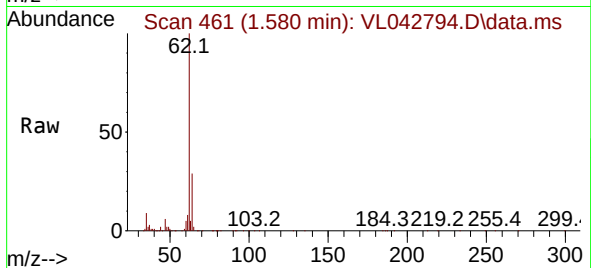
Tgt Ion: 50 Resp: 70831
Ion Ratio Lower Upper
50 100
52 35.1 26.6 40.0





#5
 Vinyl Chloride
 Concen: 8.370 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

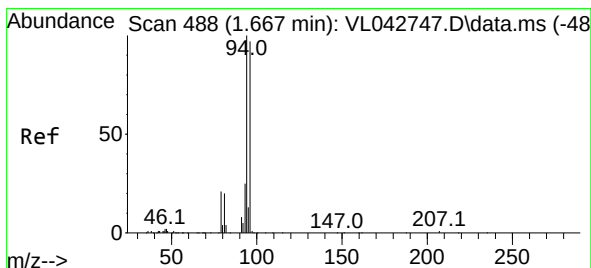
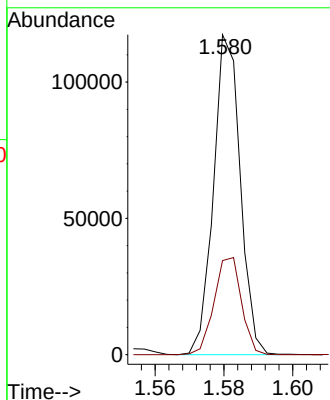
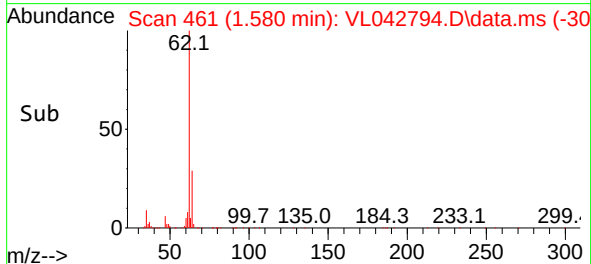
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



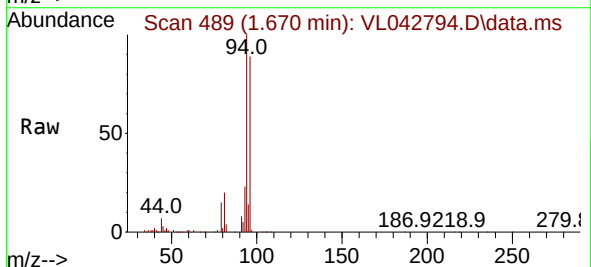
Tgt Ion: 62 Resp: 6341
 Ion Ratio Lower Upper
 62 100
 64 29.4 24.5 36.7

Manual Integrations
 APPROVED

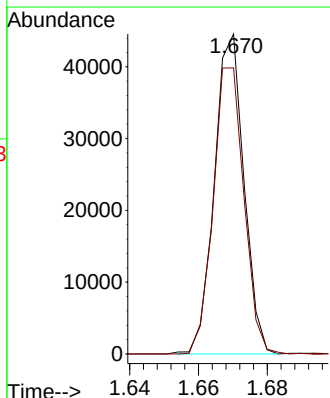
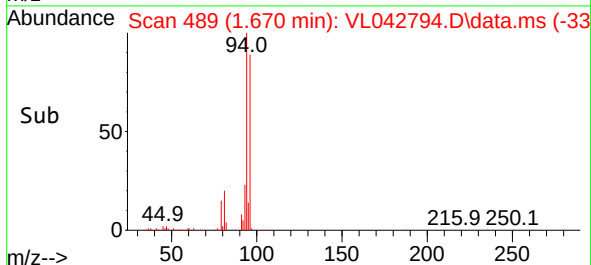
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

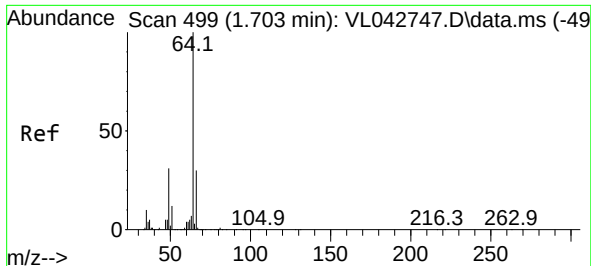


#6
 Bromomethane
 Concen: 9.069 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



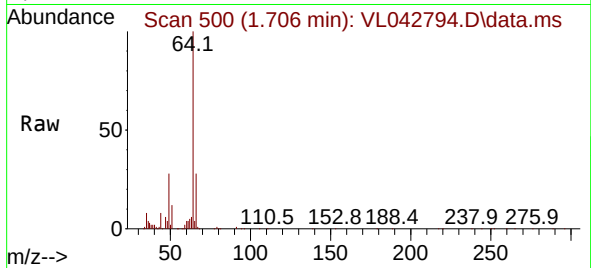
Tgt Ion: 94 Resp: 26564
 Ion Ratio Lower Upper
 94 100
 96 89.4 77.6 116.4





#7
Chloroethane
Concen: 8.818 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

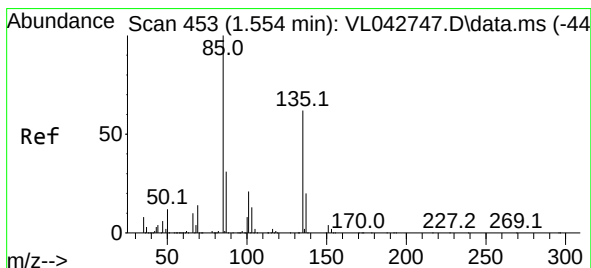
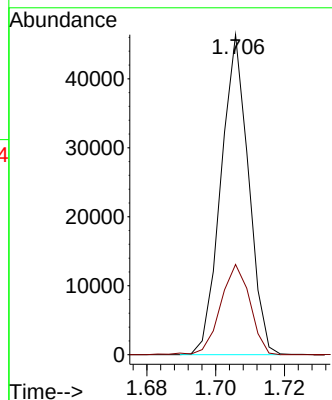
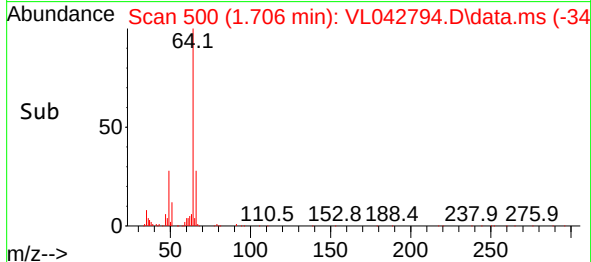
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



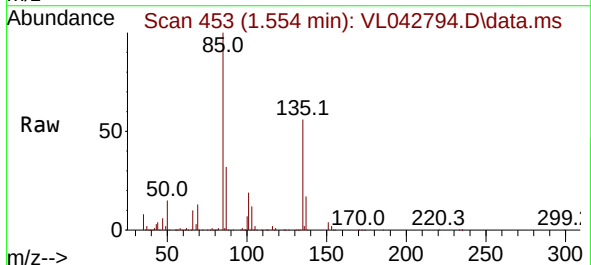
Tgt Ion: 64 Resp: 2581
Ion Ratio Lower Upper
64 100
66 28.2 24.1 36.1

Manual Integrations
APPROVED

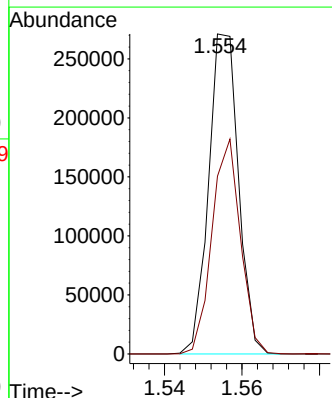
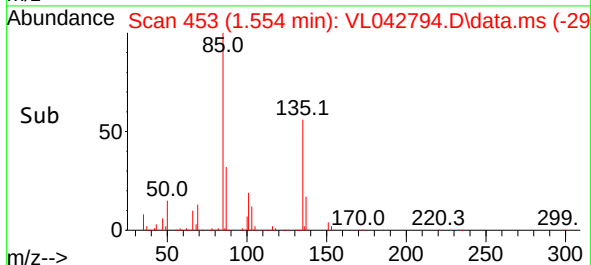
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

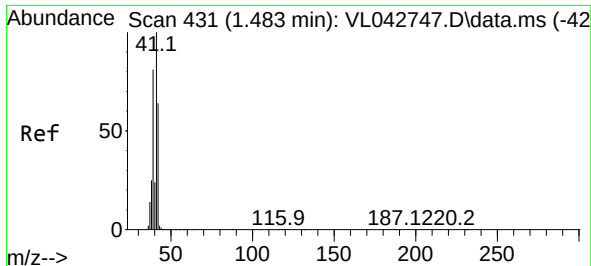


#8
Dichlorotetrafluoroethane
Concen: 9.343 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



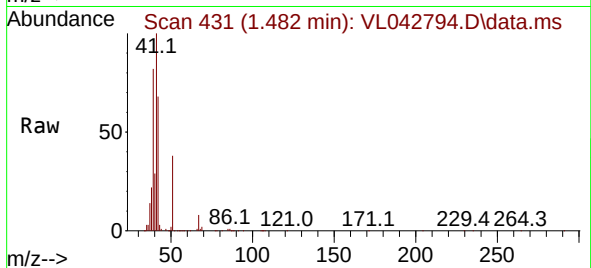
Tgt Ion: 85 Resp: 145635
Ion Ratio Lower Upper
85 100
135 64.1 50.6 76.0





#9
 Propene
 Concen: 7.549 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

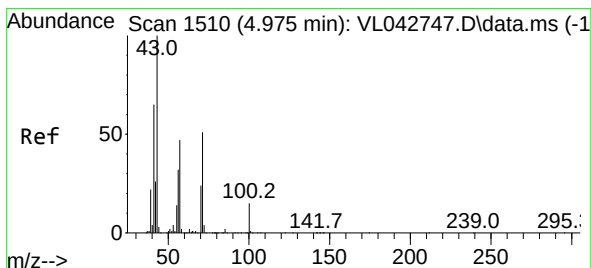
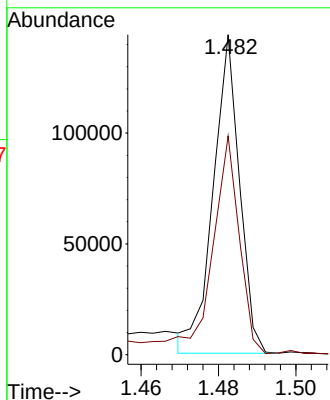
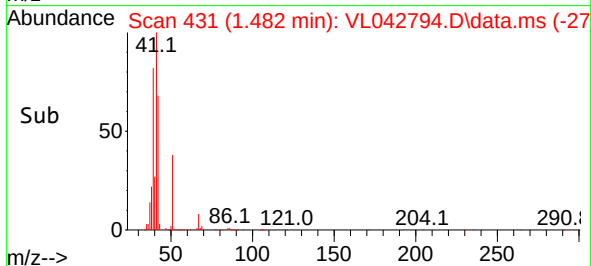
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



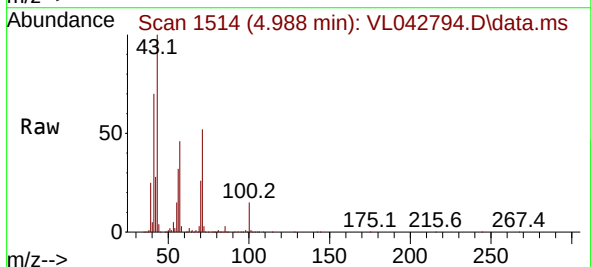
Tgt Ion: 41 Resp: 6774
 Ion Ratio Lower Upper
 41 100
 42 74.8 53.2 79.8

Manual Integrations
 APPROVED

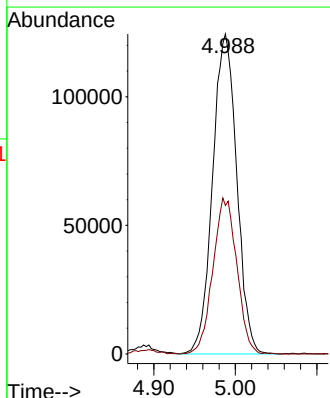
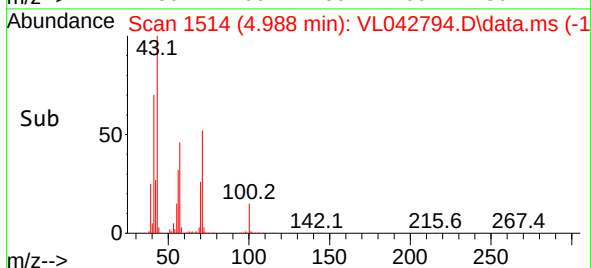
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

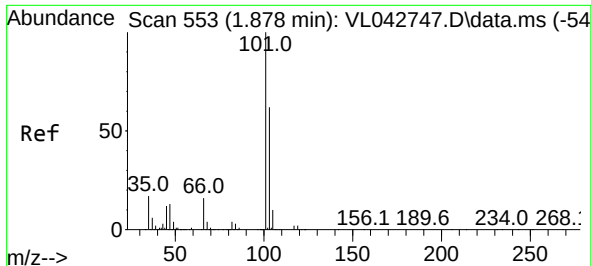


#10
 Heptane
 Concen: 10.604 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.013 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



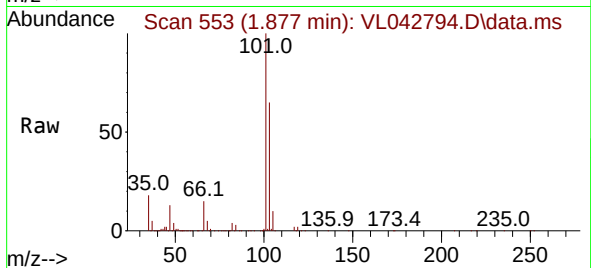
Tgt Ion: 43 Resp: 256581
 Ion Ratio Lower Upper
 43 100
 57 48.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.005 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

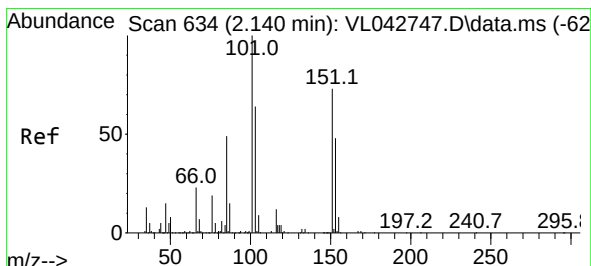
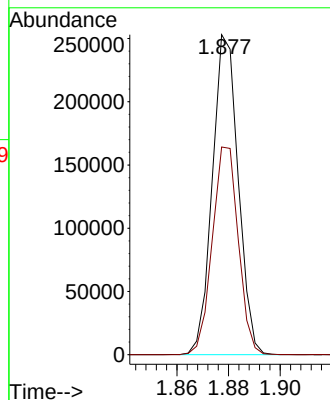
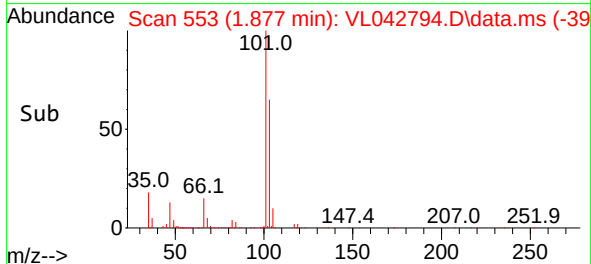
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



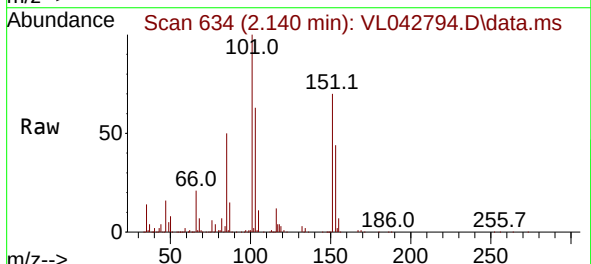
Tgt Ion:101 Resp: 175953
Ion Ratio Lower Upper
101 100
103 64.9 49.6 74.4

Manual Integrations
APPROVED

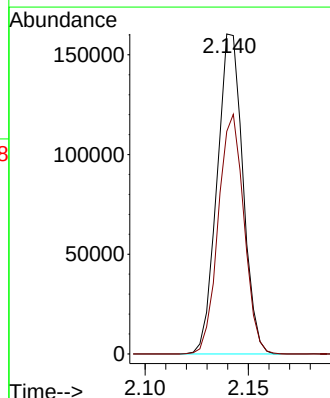
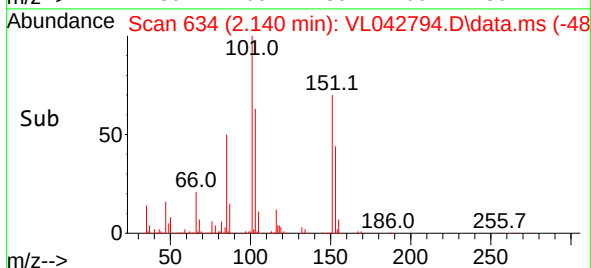
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

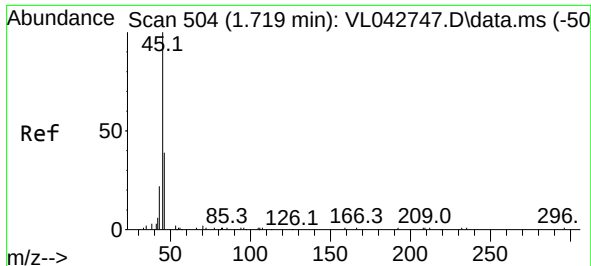


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.398 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



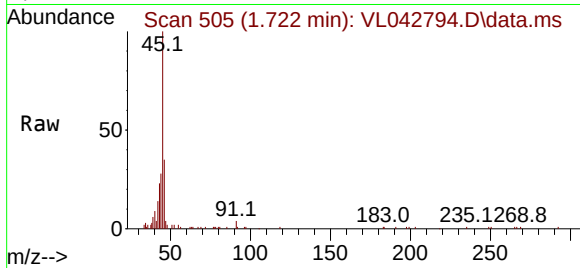
Tgt Ion:101 Resp: 139531
Ion Ratio Lower Upper
101 100
151 74.5 60.5 90.7





#13
Ethanol
Concen: 8.289 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

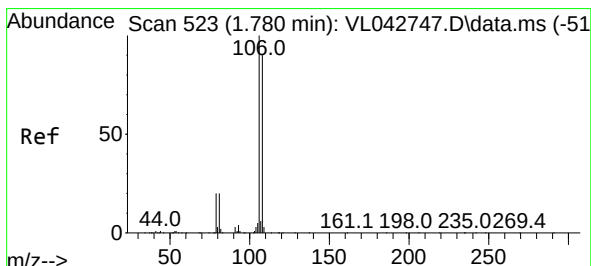
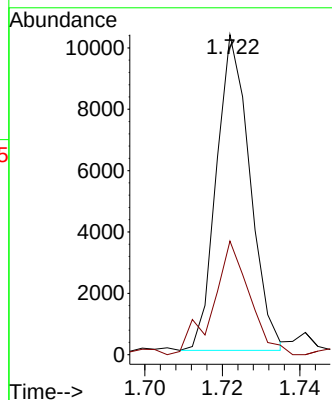
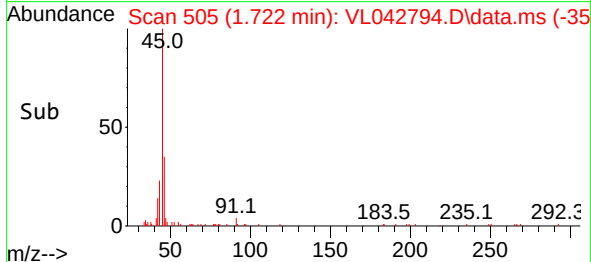
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



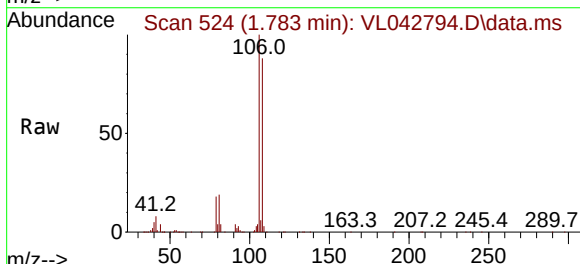
Tgt Ion: 45 Resp: 6169
Ion Ratio Lower Upper
45 100
46 42.1 17.8 71.4

Manual Integrations
APPROVED

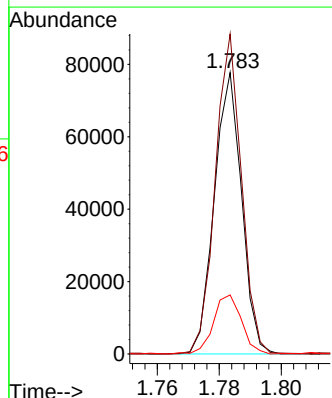
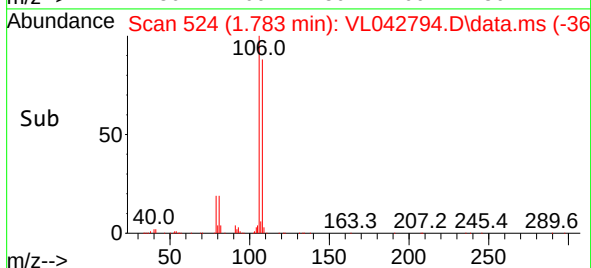
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

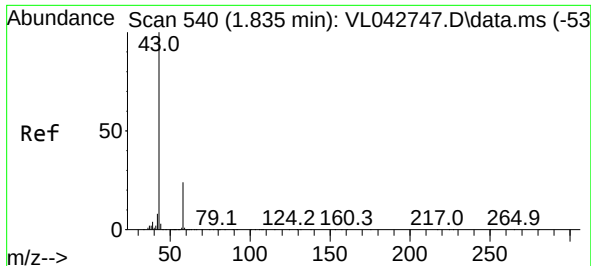


#14
Bromoethene
Concen: 9.039 ppbv
RT: 1.783 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



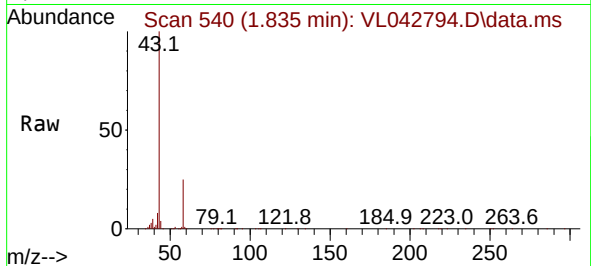
Tgt Ion:108 Resp: 47516
Ion Ratio Lower Upper
108 100
106 109.8 84.7 127.1
79 22.7 17.4 26.2





#15
Acetone
Concen: 7.352 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

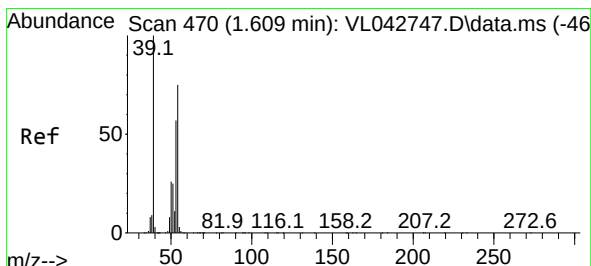
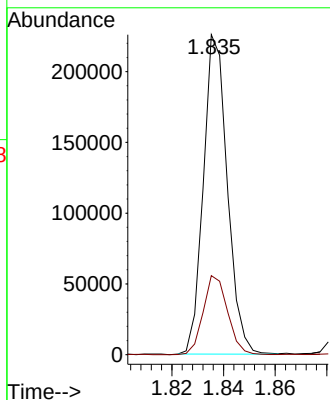
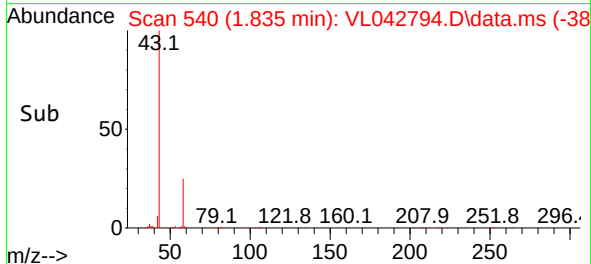
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



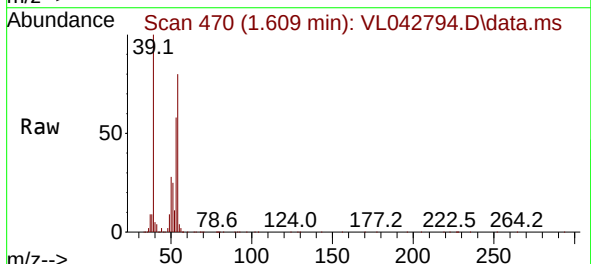
Tgt Ion: 43 Resp: 145544
Ion Ratio Lower Upper
43 100
58 25.4 19.8 29.8

Manual Integrations
APPROVED

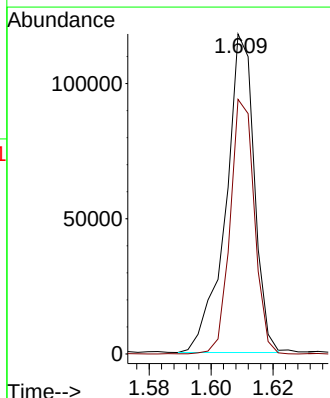
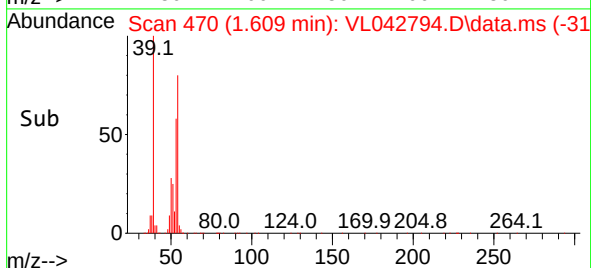
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

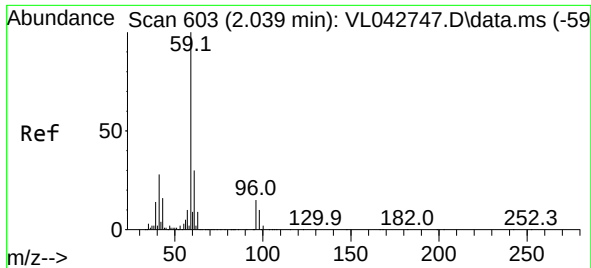


#16
1,3-Butadiene
Concen: 8.933 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion: 39 Resp: 75425
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.823 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 59 Resp: 157530

Ion Ratio Lower Upper

59 100

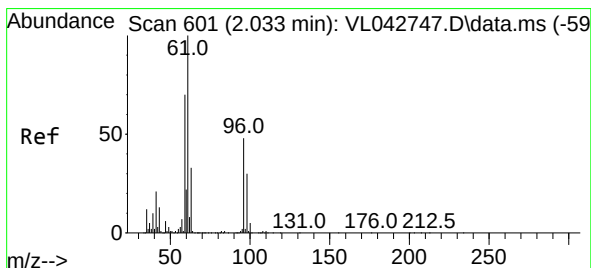
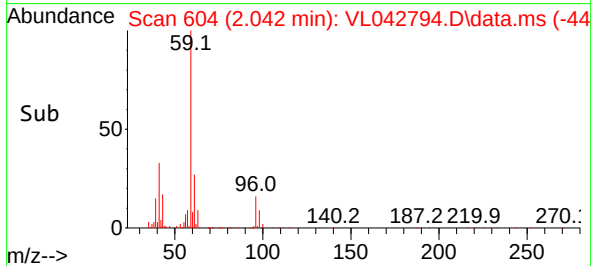
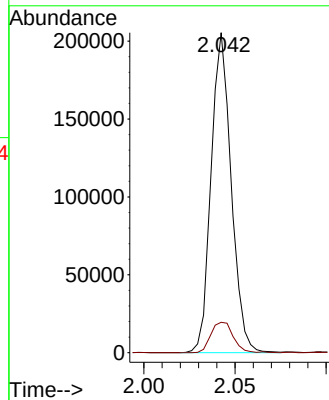
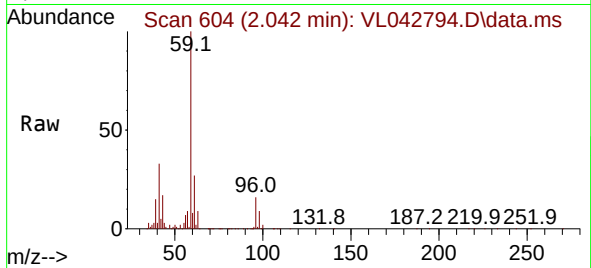
57 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#18

1,1-Dichloroethene

Concen: 8.904 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

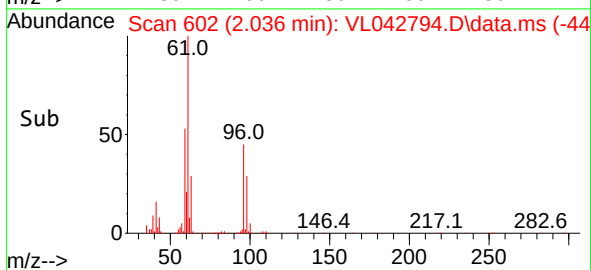
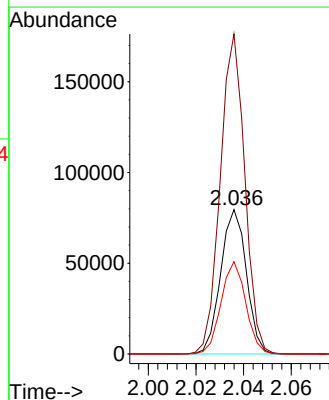
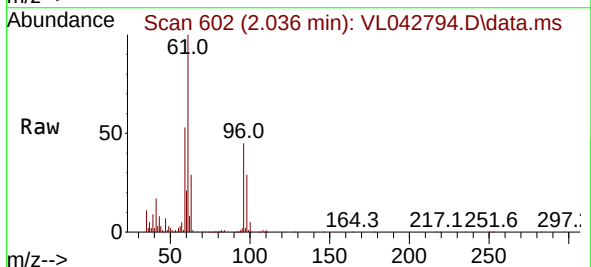
Tgt Ion: 96 Resp: 59735

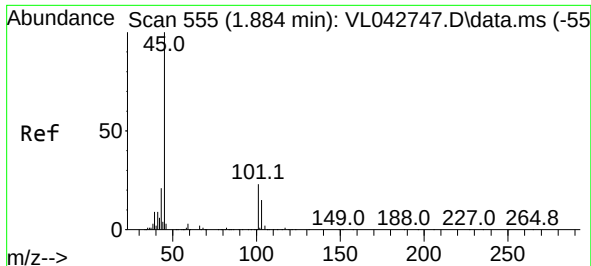
Ion Ratio Lower Upper

96 100

61 221.7 165.8 248.6

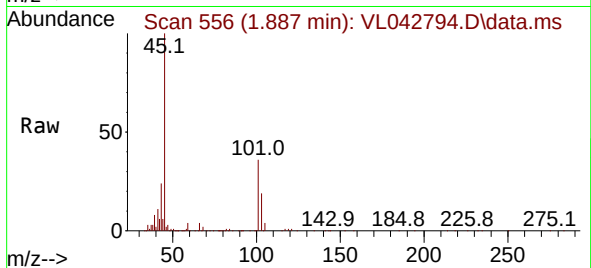
98 64.0 49.9 74.9





#19
Isopropyl Alcohol
Concen: 8.545 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

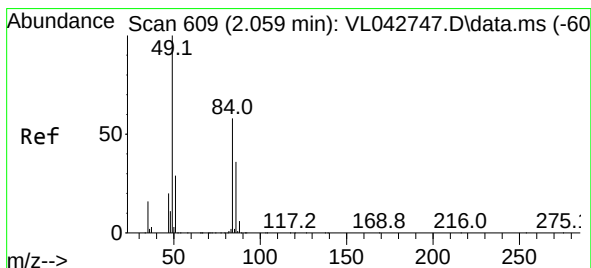
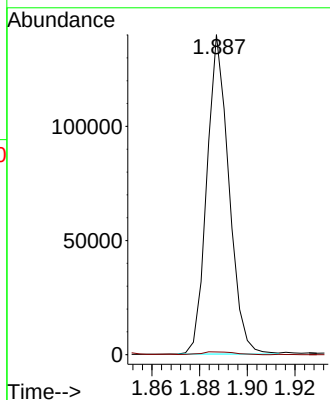
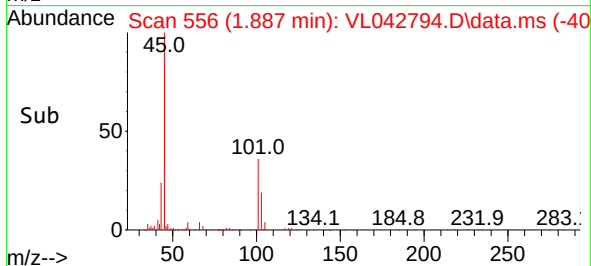
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



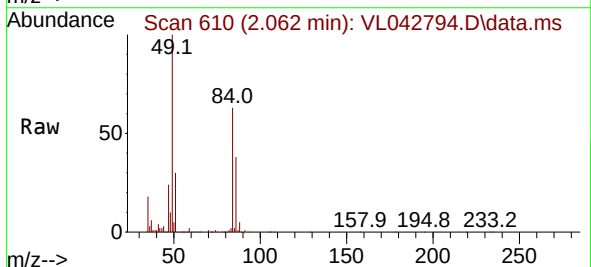
Tgt Ion: 45 Resp: 89890
Ion Ratio Lower Upper
45 100
58 41.1 30.0 45.0

Manual Integrations
APPROVED

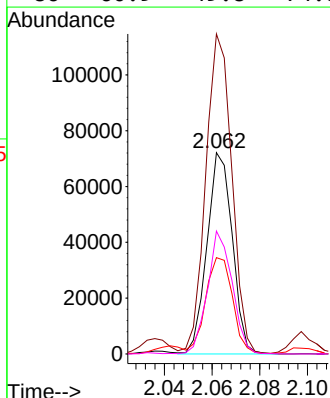
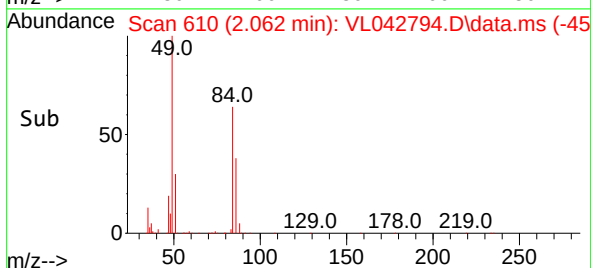
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

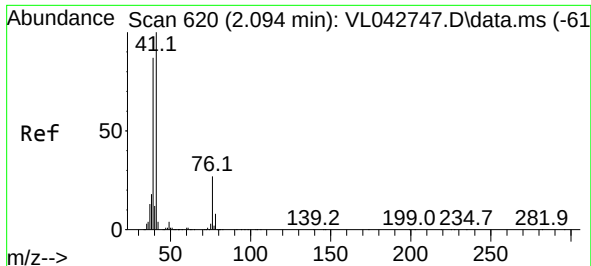


#20
Methylene Chloride
Concen: 8.525 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



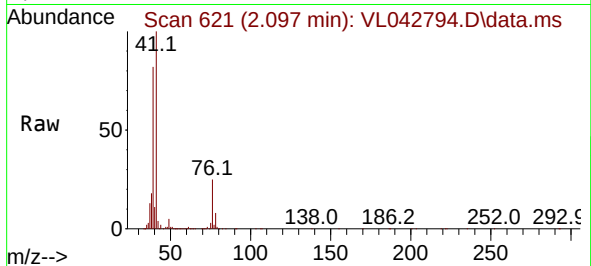
Tgt Ion: 84 Resp: 53184
Ion Ratio Lower Upper
84 100
49 158.0 138.6 208.0
51 47.4 40.6 61.0
86 60.9 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.342 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

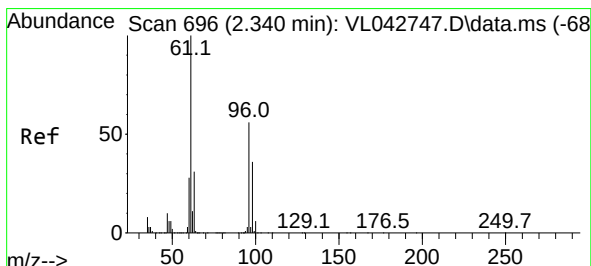
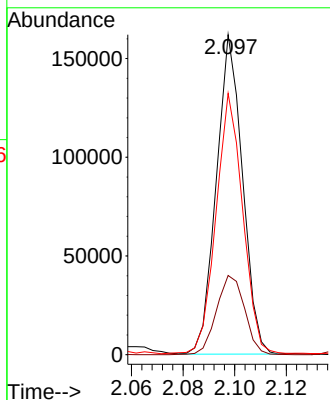
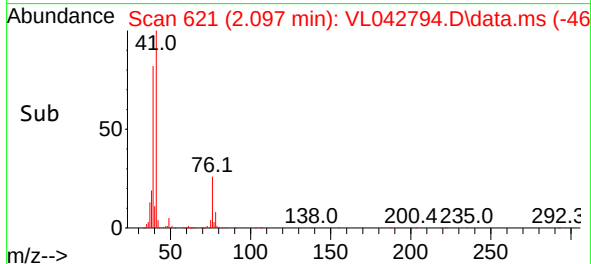
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



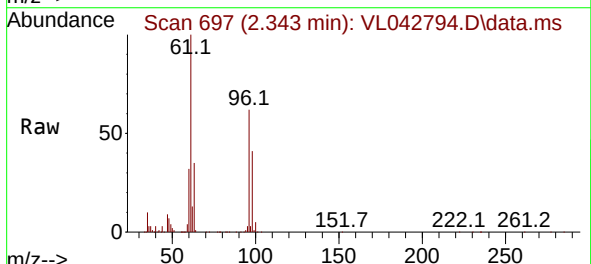
Tgt Ion: 41 Resp: 11397
 Ion Ratio Lower Upper
 41 100
 76 26.6 21.1 31.7
 39 83.0 68.3 102.5

Manual Integrations
 APPROVED

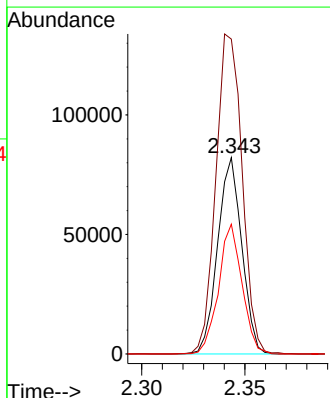
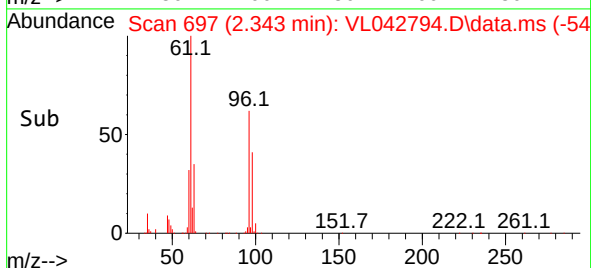
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

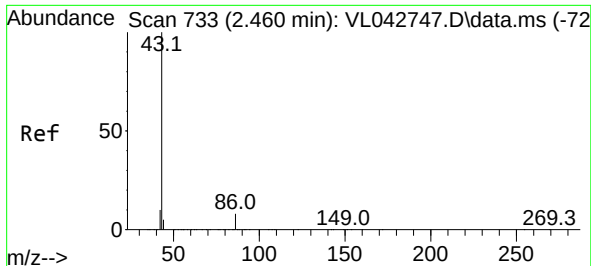


#22
 trans-1,2-Dichloroethene
 Concen: 9.237 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



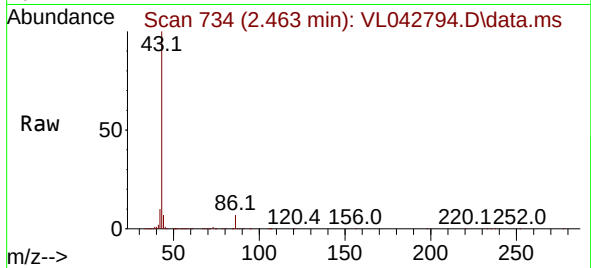
Tgt Ion: 96 Resp: 66660
 Ion Ratio Lower Upper
 96 100
 61 160.3 142.3 213.5
 98 66.1 50.6 76.0





#23
 Vinyl Acetate
 Concen: 11.134 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

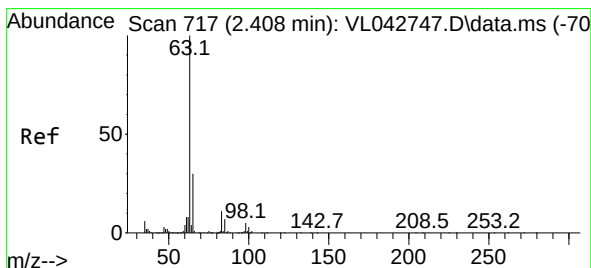
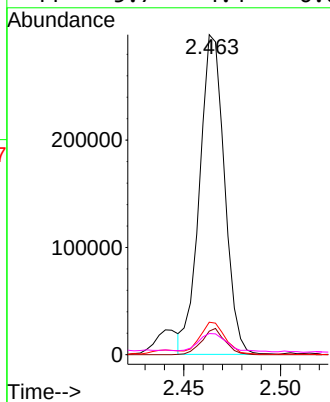
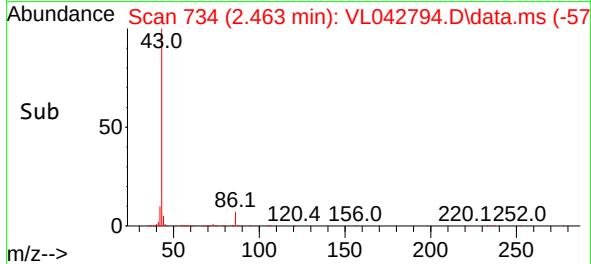


Tgt Ion: 43 Resp: 26721

Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.1	9.1
42	10.0	7.8	11.8
44	5.7	4.4	6.6

Manual Integrations
 APPROVED

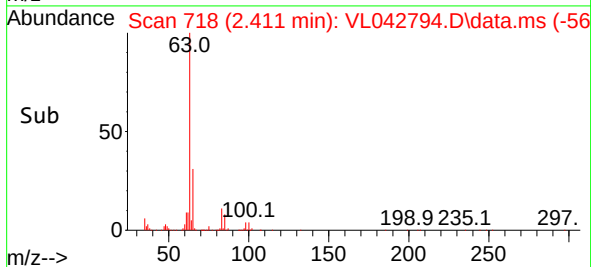
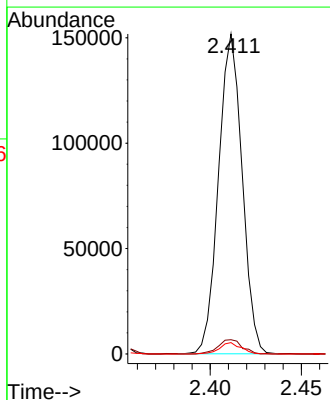
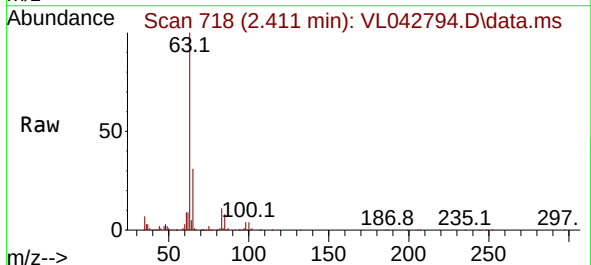
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

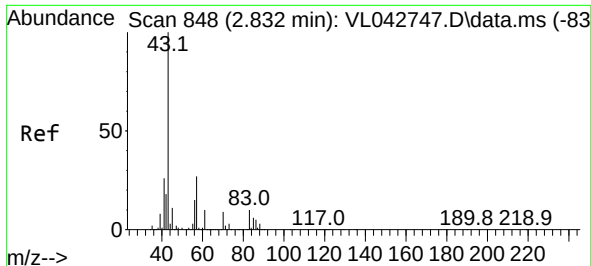


#24
 1,1-Dichloroethane
 Concen: 9.222 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 63 Resp: 136610

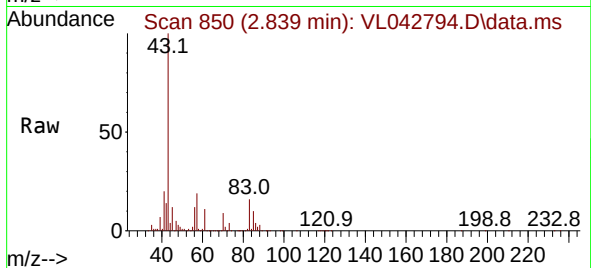
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.4
100	3.6	1.6	4.8





#25
Ethyl Acetate
Concen: 10.270 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

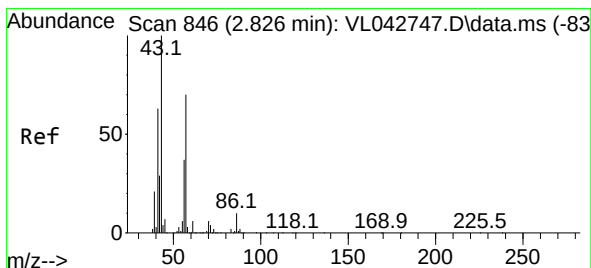
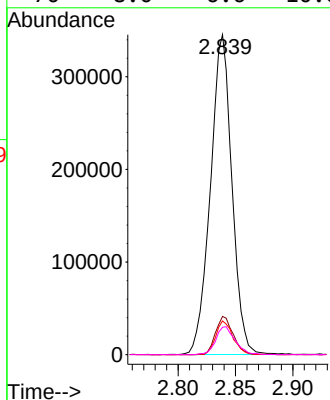
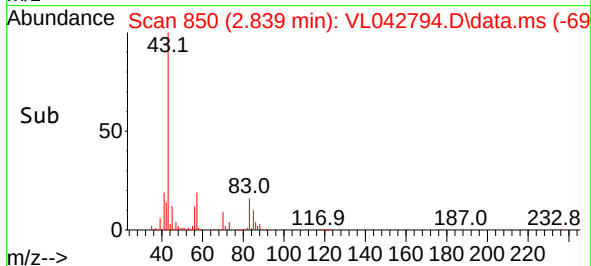
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 43 Resp: 450028
Ion Ratio Lower Upper
43 100
45 9.9 7.8 11.6
61 8.6 6.7 10.1
70 8.0 6.6 10.0

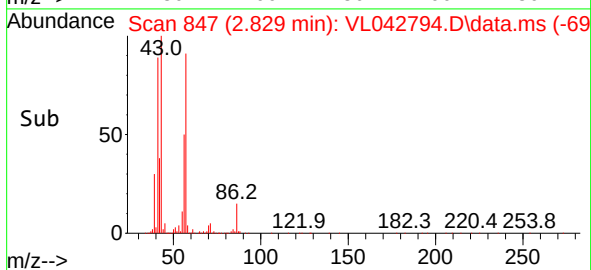
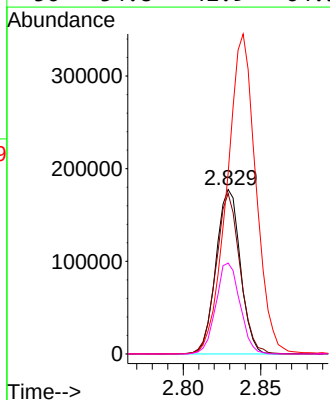
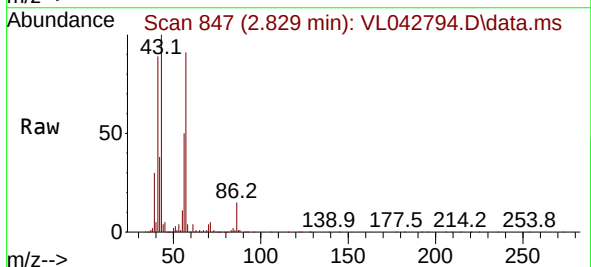
Manual Integrations
APPROVED

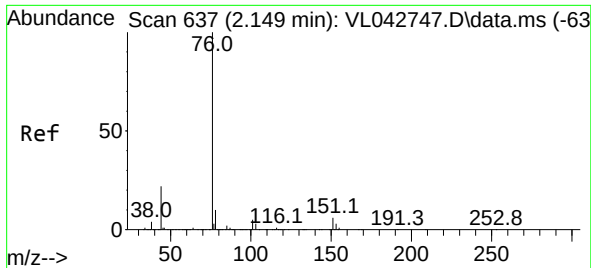
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#26
Hexane
Concen: 10.078 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

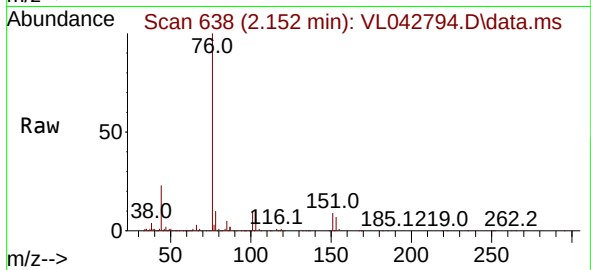
Tgt Ion: 57 Resp: 193724
Ion Ratio Lower Upper
57 100
41 96.9 75.4 113.2
43 233.0 185.0 277.6
56 54.8 42.9 64.3





#27
Carbon Disulfide
Concen: 10.023 ppbv
RT: 2.152 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

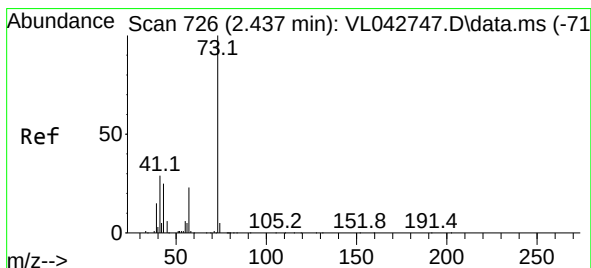
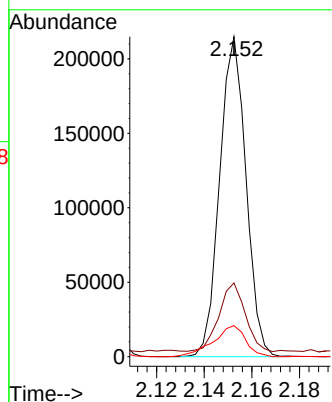
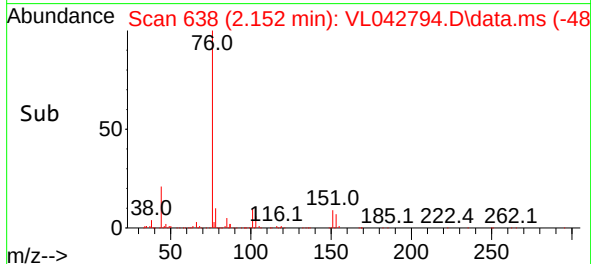
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 76 Resp: 16494
Ion Ratio Lower Upper
76 100
44 26.1 19.3 28.9
78 12.0 9.9 14.9

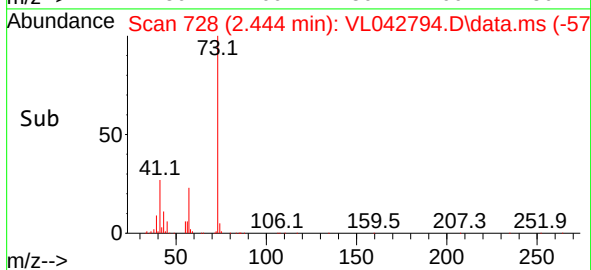
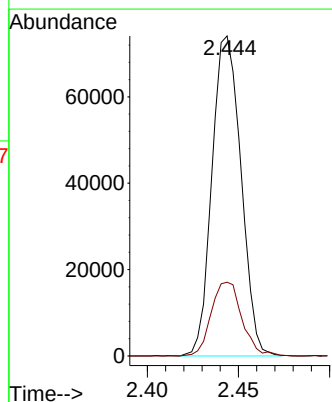
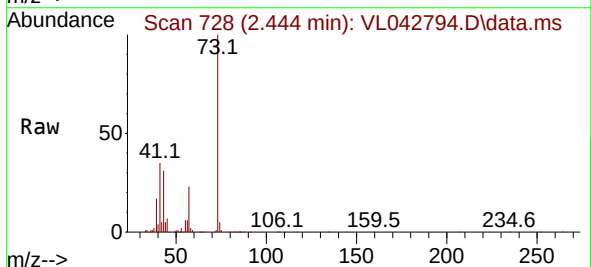
Manual Integrations
APPROVED

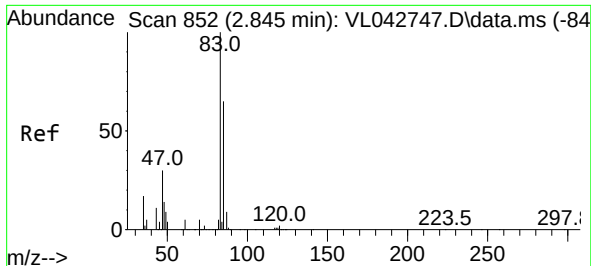
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#28
Methyl tert-Butyl Ether
Concen: 9.026 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 73 Resp: 81968
Ion Ratio Lower Upper
73 100
57 24.4 19.8 29.8





#29

Chloroform

Concen: 10.176 ppbv

RT: 2.852 min Scan# 852

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 83 Resp: 30225

Ion Ratio Lower Upper

83 100

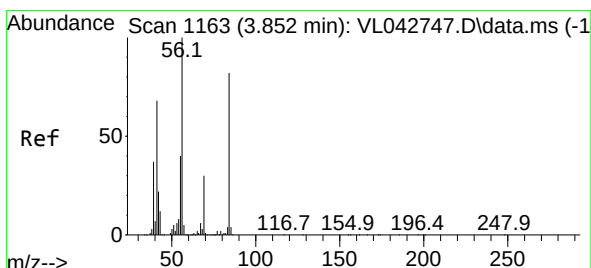
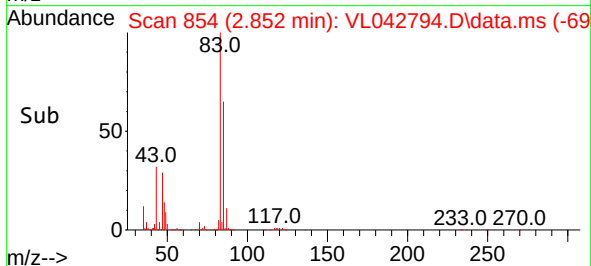
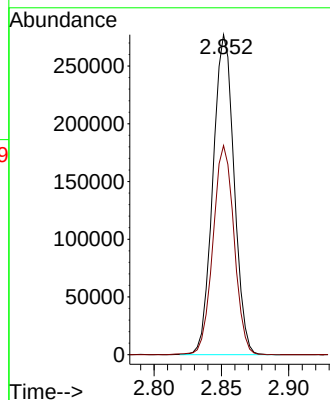
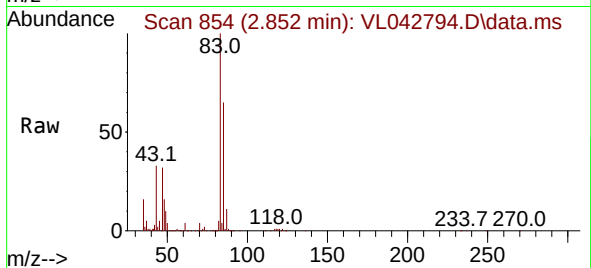
85 65.4 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#30

Cyclohexane

Concen: 9.705 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

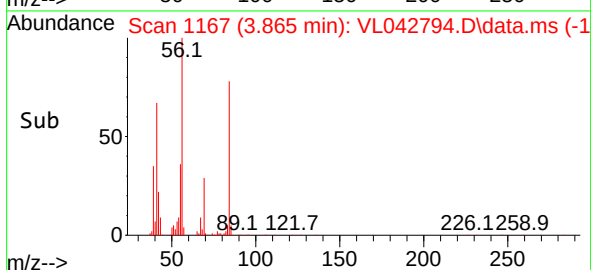
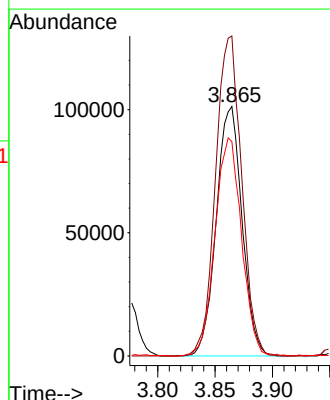
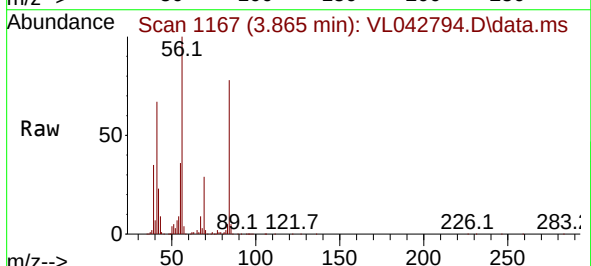
Tgt Ion: 84 Resp: 158206

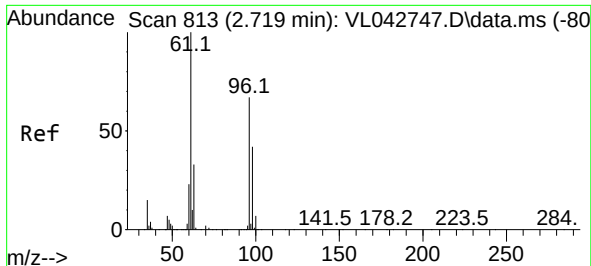
Ion Ratio Lower Upper

84 100

56 129.8 97.5 146.3

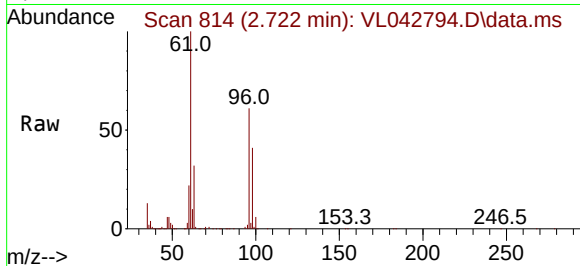
41 90.1 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.599 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

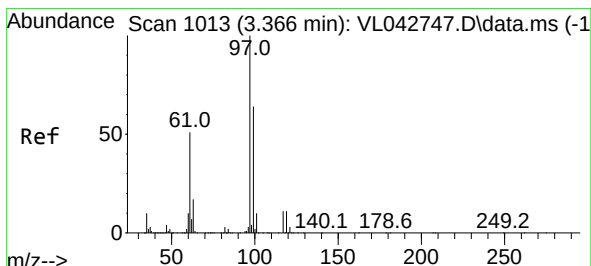
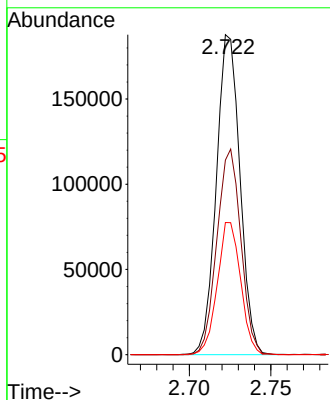
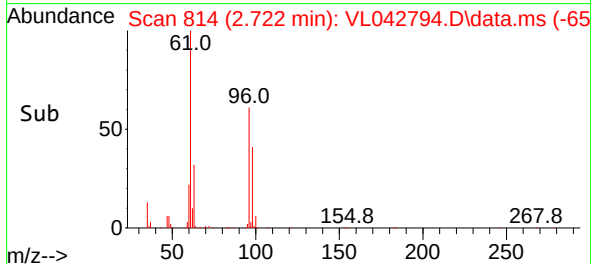
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



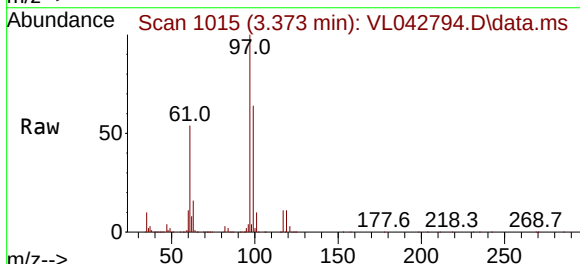
Tgt Ion: 61 Resp: 18960
 Ion Ratio Lower Upper
 61 100
 96 60.8 53.5 80.3
 98 41.3 33.6 50.4

Manual Integrations
 APPROVED

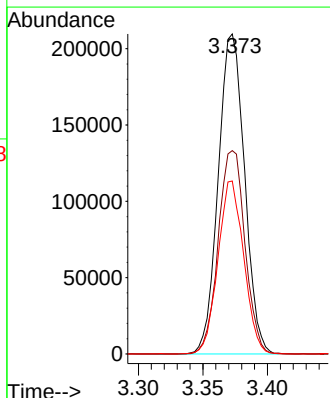
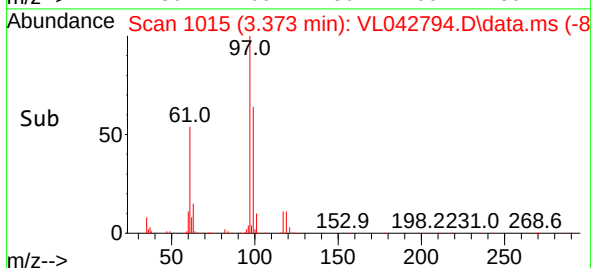
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

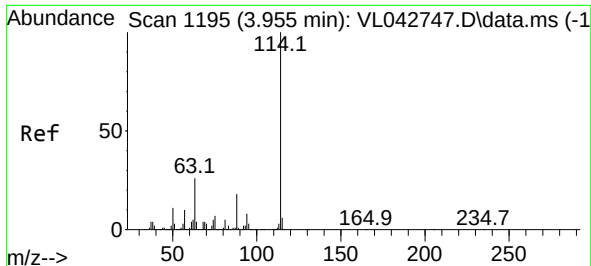


#32
 1,1,1-Trichloroethane
 Concen: 9.605 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



Tgt Ion: 97 Resp: 297175
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.6
 61 53.0 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

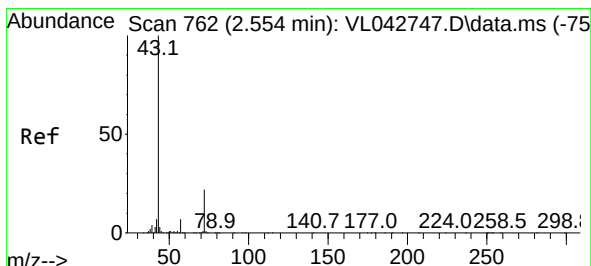
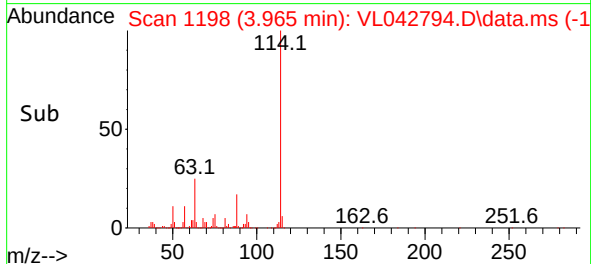
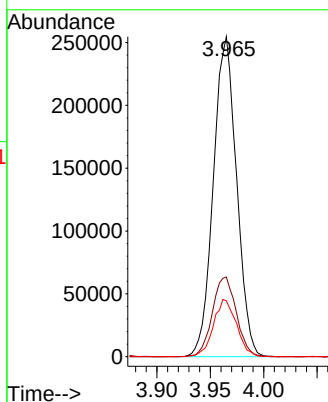
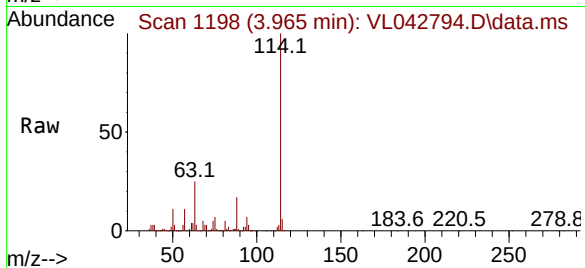
VL0731ABSD01

Tgt Ion:114 Resp: 385270
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.8 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#34

2-Butanone

Concen: 10.737 ppbv

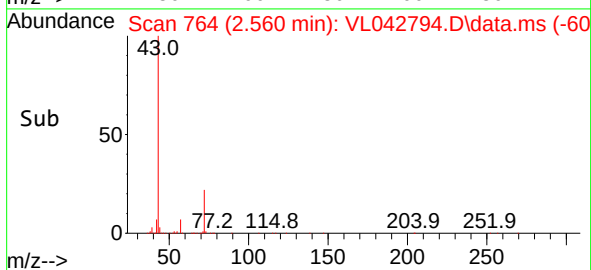
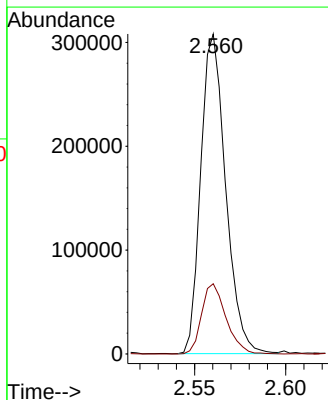
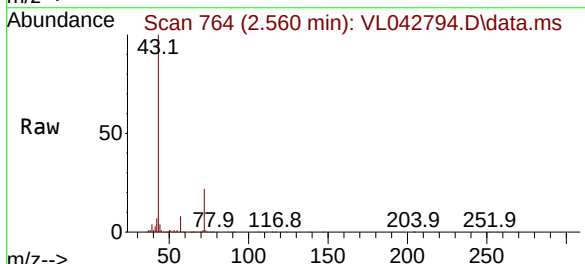
RT: 2.560 min Scan# 764

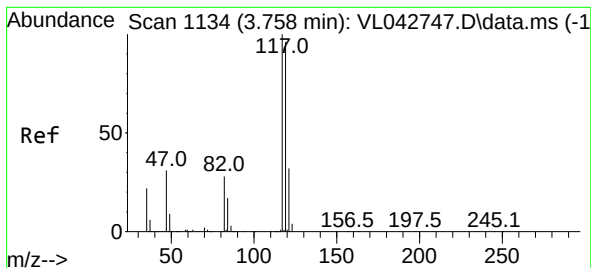
Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 43 Resp: 293015
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 11.014 ppbv

RT: 3.768 min Scan# 1134

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

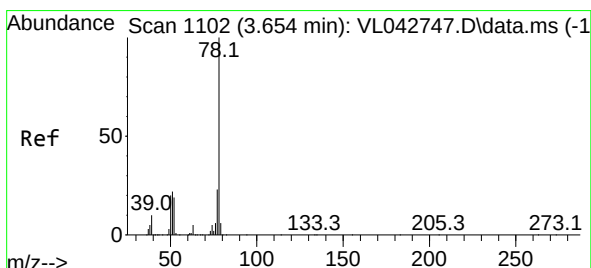
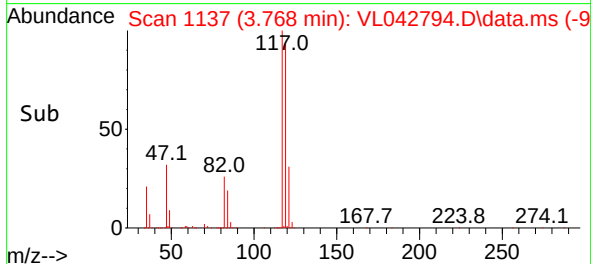
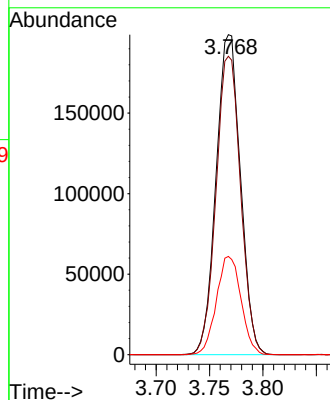
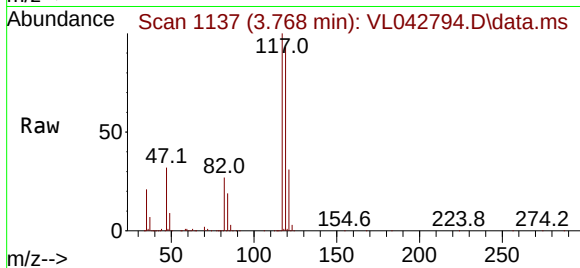
Tgt Ion: 117 Resp: 31519

Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.1	115.7
121	30.7	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#36

Benzene

Concen: 10.677 ppbv

RT: 3.661 min Scan# 1104

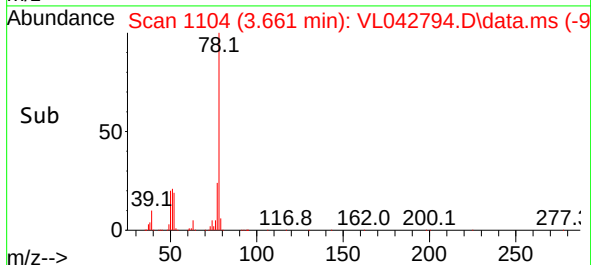
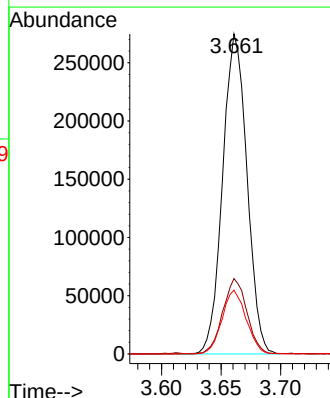
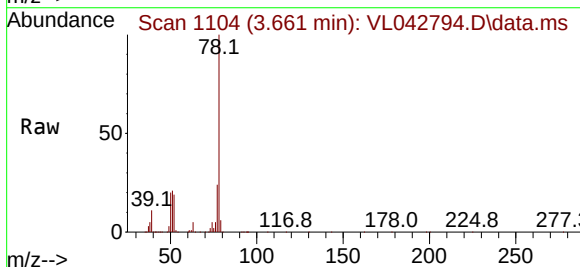
Delta R.T. 0.006 min

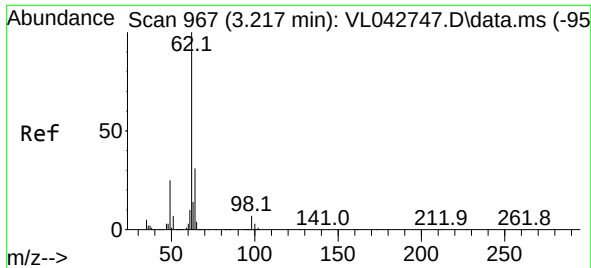
Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 78 Resp: 389839

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.5	27.7
50	19.9	16.2	24.2





#37

1,2-Dichloroethane

Concen: 10.756 ppbv

RT: 3.224 min Scan# 90

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 62 Resp: 23659

Ion Ratio Lower Upper

62 100

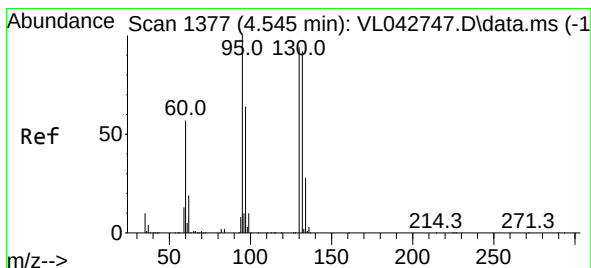
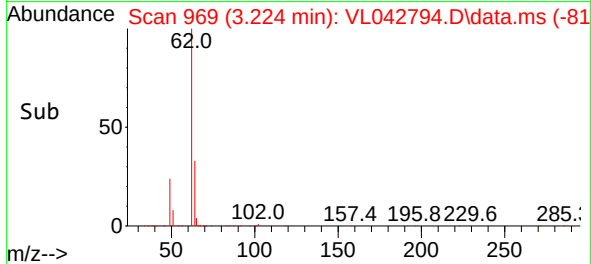
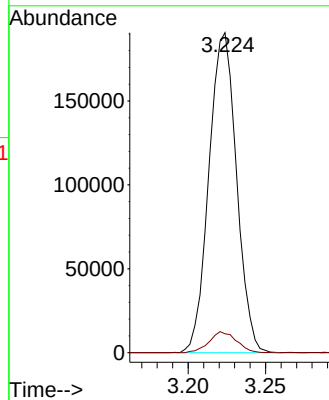
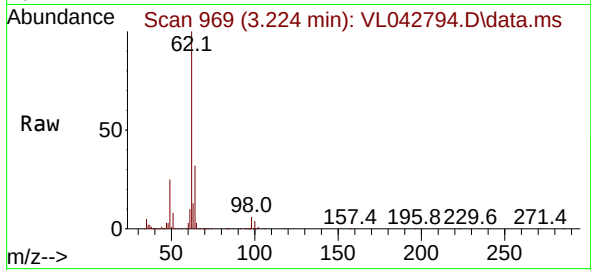
98 6.5 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#38

Trichloroethene

Concen: 9.974 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:130 Resp: 174966

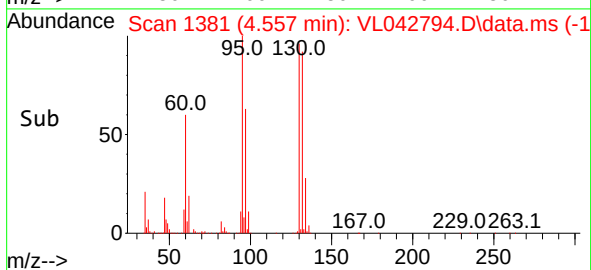
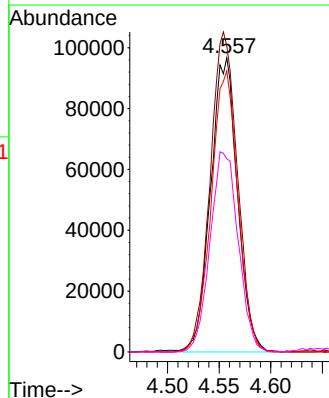
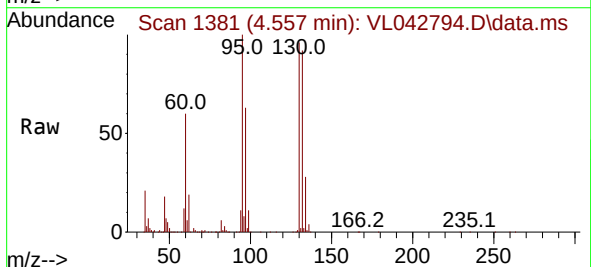
Ion Ratio Lower Upper

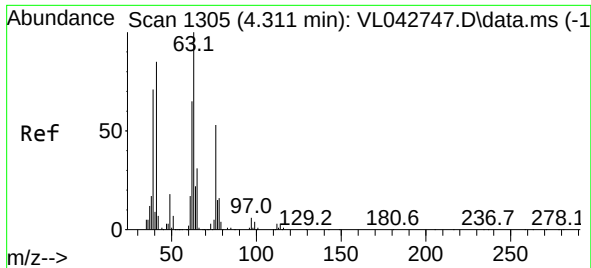
130 100

95 104.0 85.4 128.2

132 95.6 78.2 117.2

97 65.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.741 ppbv

RT: 4.318 min Scan# 1305

Delta R.T. 0.006 min

Lab File: VL042794.D

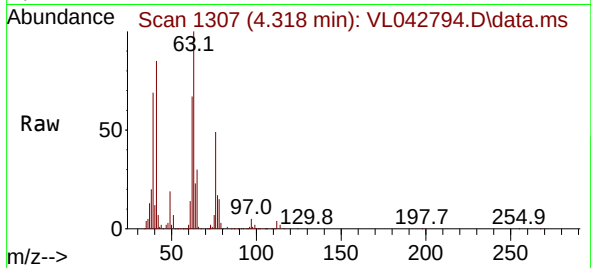
Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01



Tgt Ion: 63 Resp: 144769

Ion Ratio Lower Upper

63 100

41 84.8 68.2 102.4

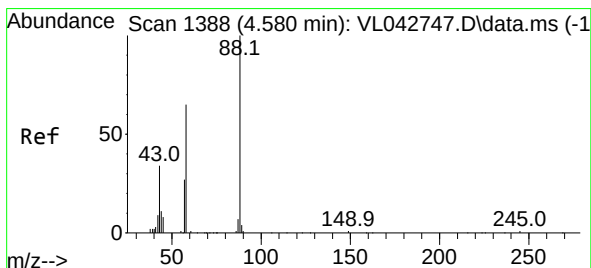
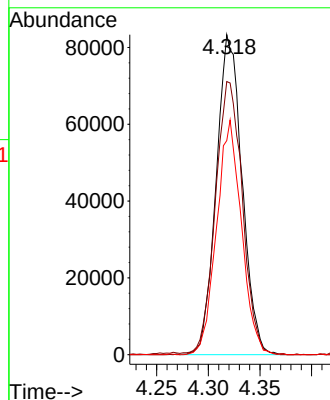
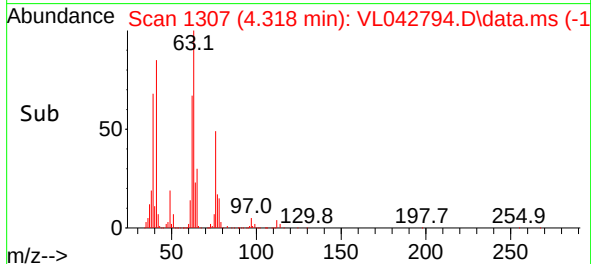
62 66.9 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#40

1,4-Dioxane

Concen: 9.866 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 88 Resp: 61985

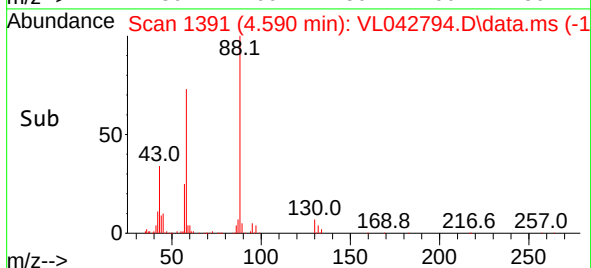
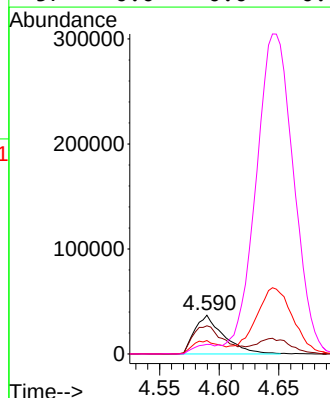
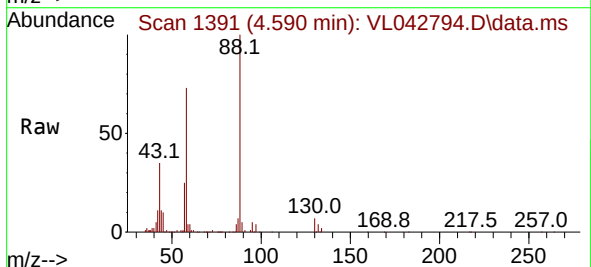
Ion Ratio Lower Upper

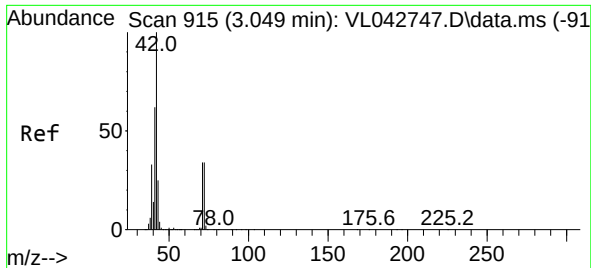
88 100

58 74.7 58.8 88.2

43 32.4 28.9 43.3

57 0.0 0.0 0.0





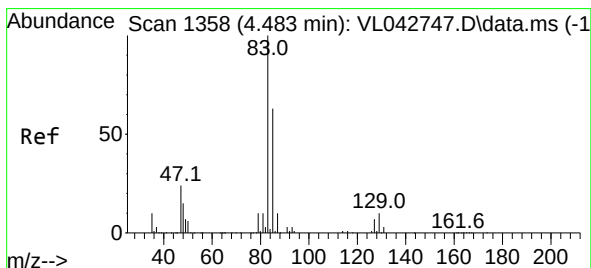
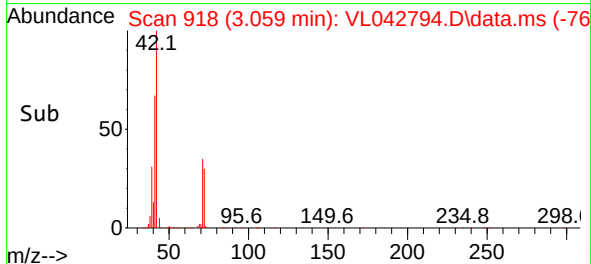
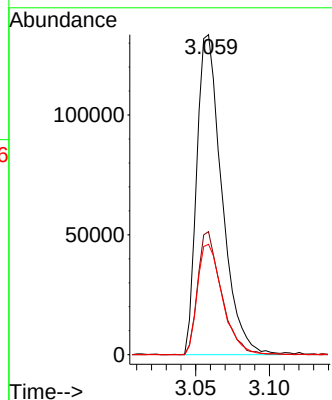
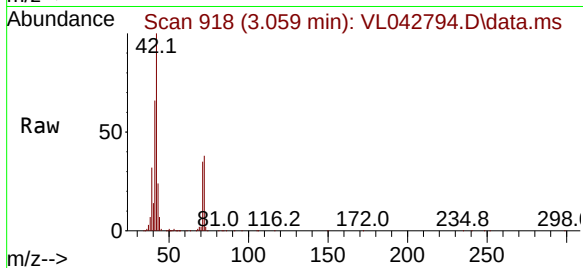
#41
Tetrahydrofuran
Concen: 11.374 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 42 Resp: 157948
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 34.7 28.6 43.0

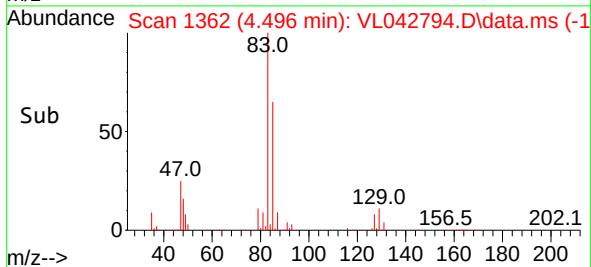
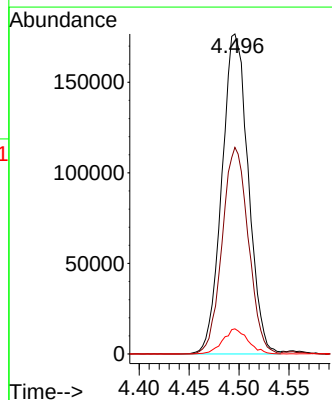
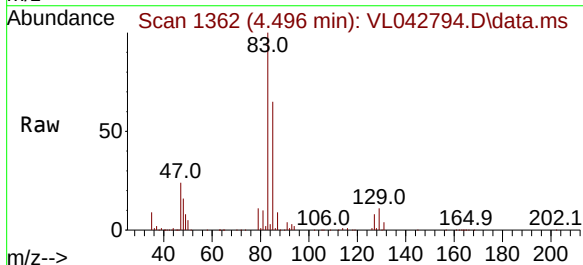
Manual Integrations
APPROVED

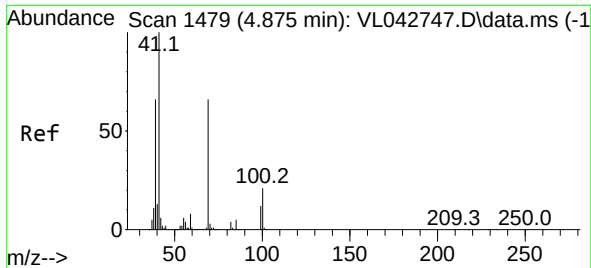
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#42
Bromodichloromethane
Concen: 11.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

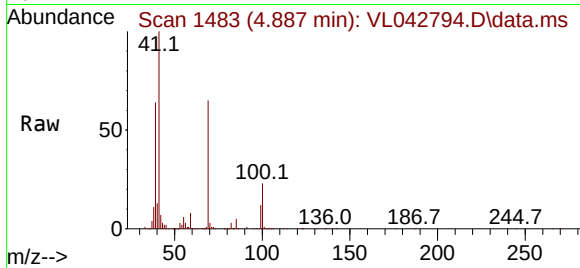
Tgt Ion: 83 Resp: 324724
Ion Ratio Lower Upper
83 100
85 64.6 50.2 75.4
127 7.9 5.4 8.2





#43
Methyl Methacrylate
Concen: 11.338 ppbv
RT: 4.887 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

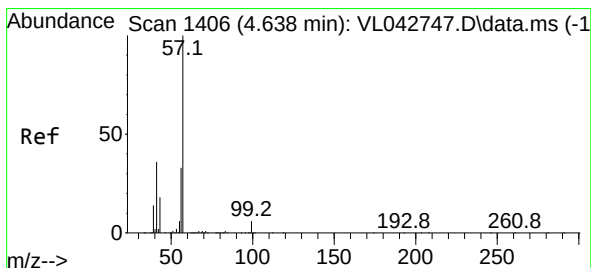
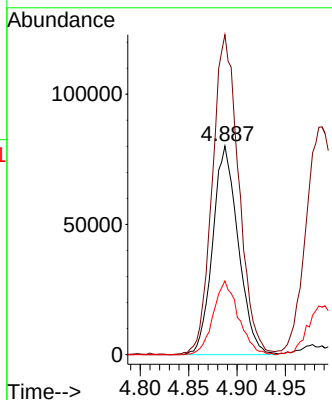
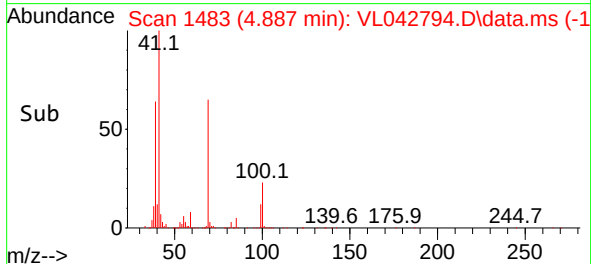
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



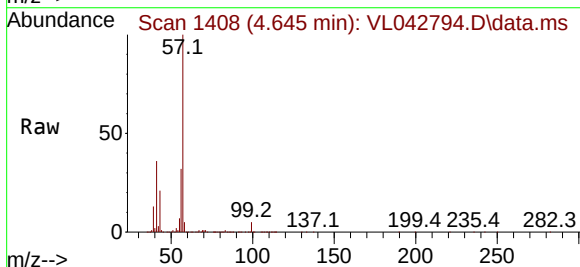
Tgt Ion: 69 Resp: 147145
Ion Ratio Lower Upper
69 100
41 158.7 125.7 188.5
100 34.8 28.6 42.8

Manual Integrations
APPROVED

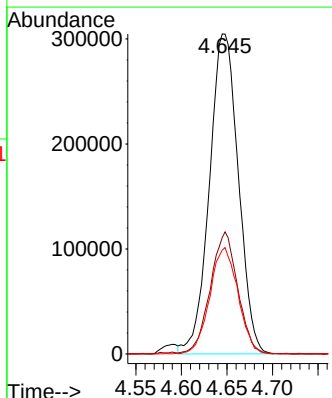
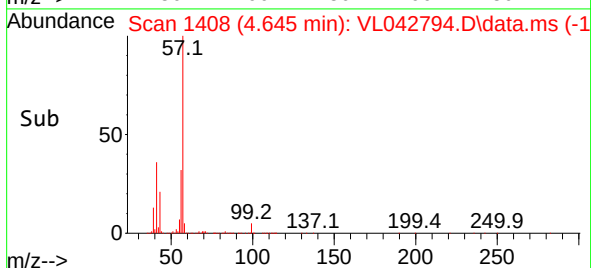
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

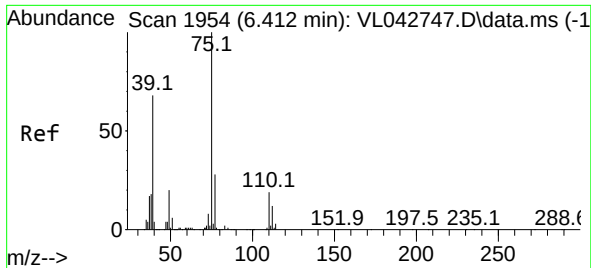


#44
2,2,4-Trimethylpentane
Concen: 11.311 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



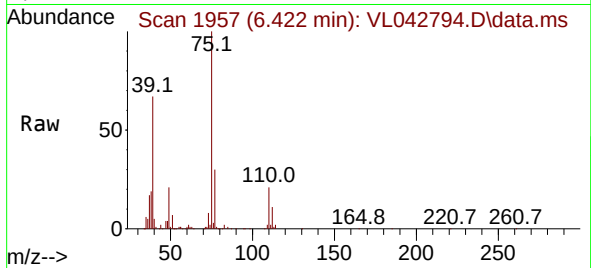
Tgt Ion: 57 Resp: 673176
Ion Ratio Lower Upper
57 100
41 36.6 28.3 42.5
56 32.6 25.8 38.6





#45
 t-1,3-Dichloropropene
 Concen: 10.976 ppbv
 RT: 6.422 min Scan# 1954
 Delta R.T. 0.010 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

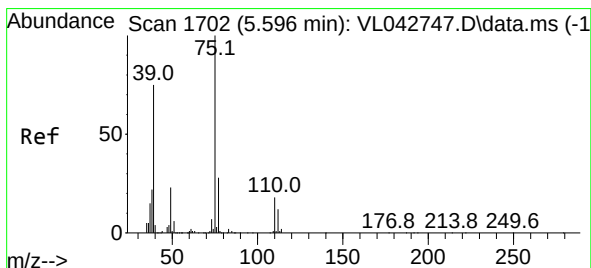
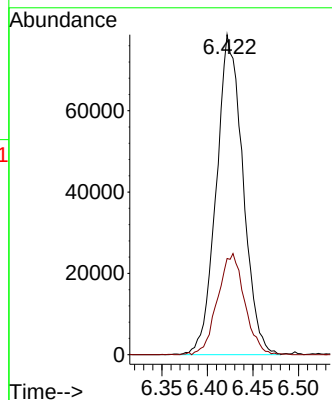
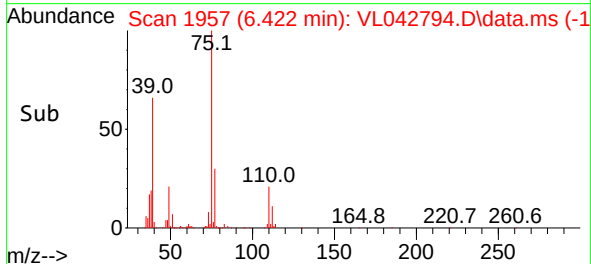
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



Tgt Ion: 75 Resp: 15975
 Ion Ratio Lower Upper
 75 100
 77 30.1 22.4 33.6

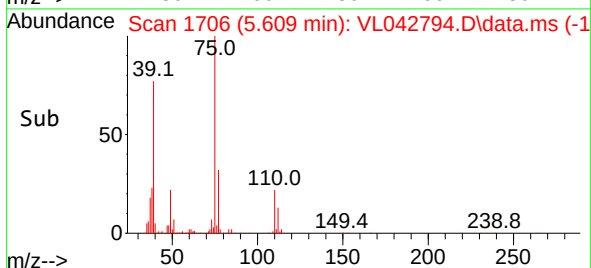
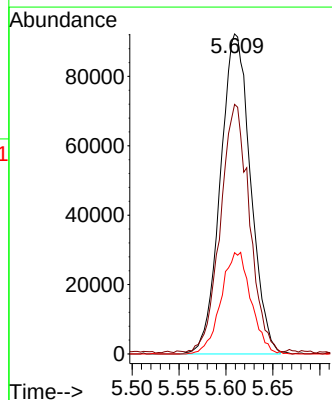
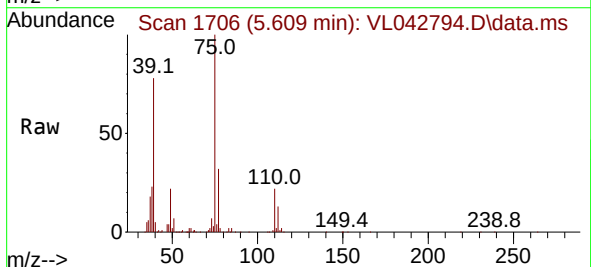
Manual Integrations
 APPROVED

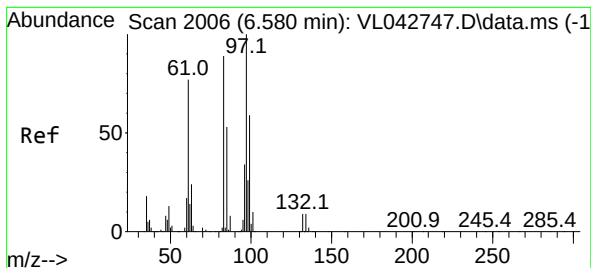
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.160 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.013 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 75 Resp: 205816
 Ion Ratio Lower Upper
 75 100
 39 77.2 60.2 90.2
 77 31.7 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 10.873 ppbv

RT: 6.590 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 97 Resp: 156210

Ion Ratio Lower Upper

97 100

83 85.7 71.1 106.7

85 54.3 43.0 64.4

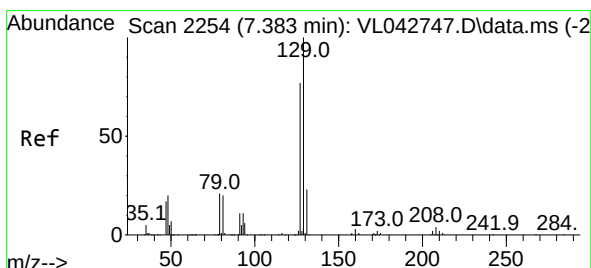
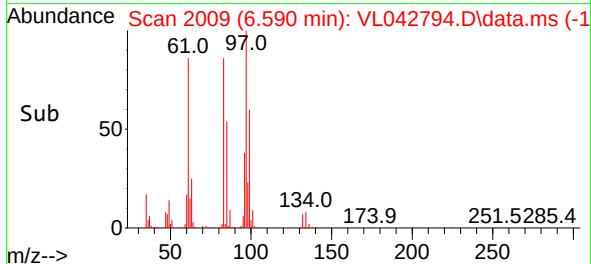
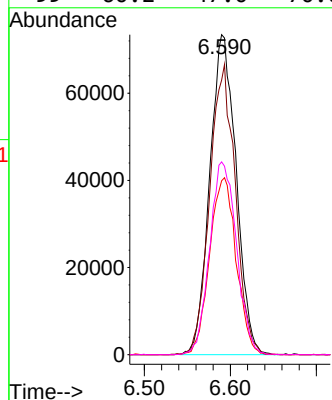
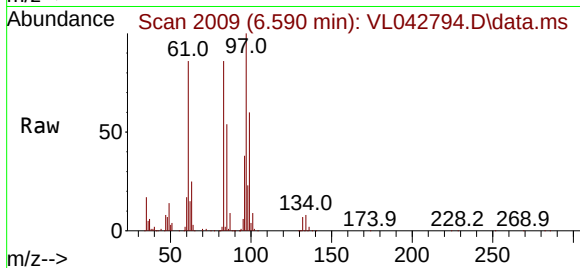
99 60.2 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#48

Dibromochloromethane

Concen: 11.510 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.013 min

Lab File: VL042794.D

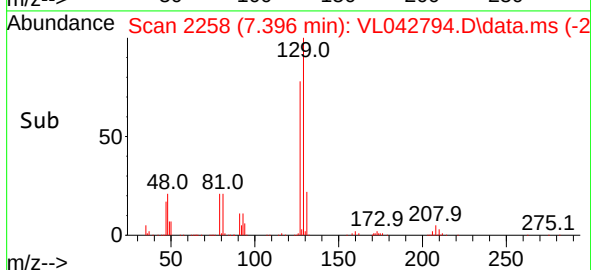
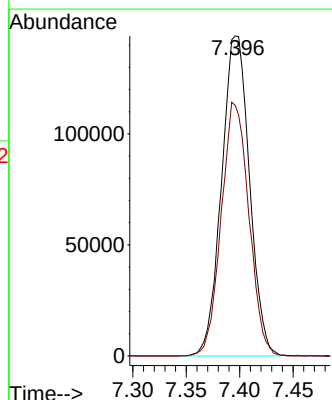
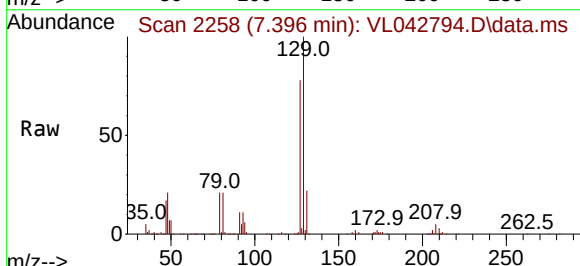
Acq: 31 Jul 2025 13:55

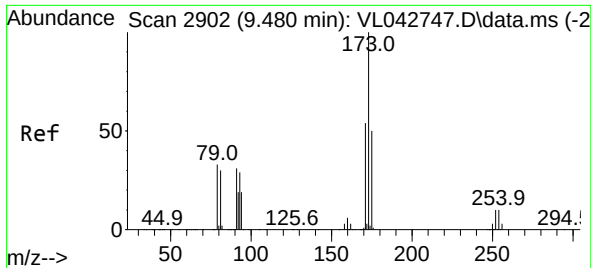
Tgt Ion:129 Resp: 262522

Ion Ratio Lower Upper

129 100

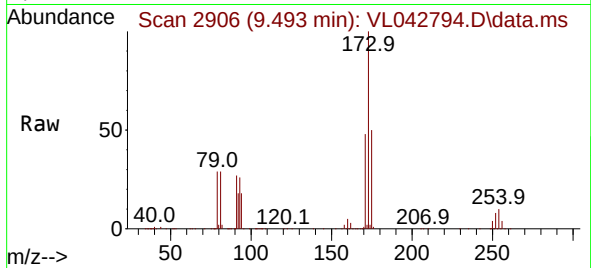
127 78.2 38.7 116.1





#49
Bromoform
Concen: 11.811 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

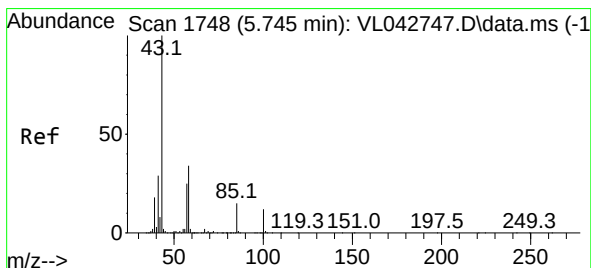
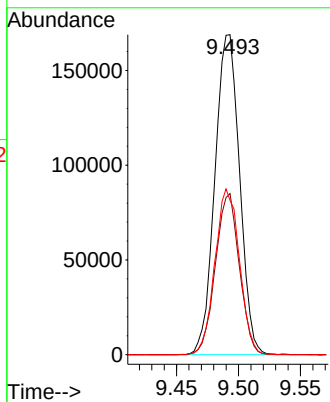
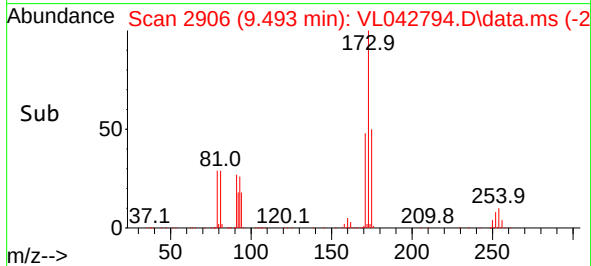
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion:173 Resp: 23489
Ion Ratio Lower Upper
173 100
175 48.8 38.4 57.6
171 51.5 40.9 61.3

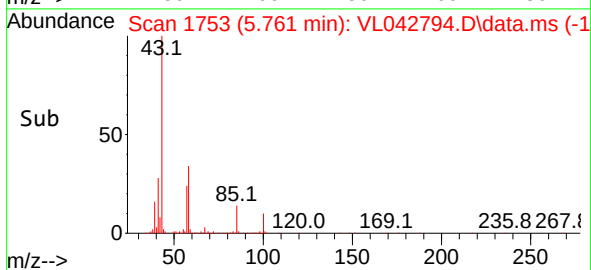
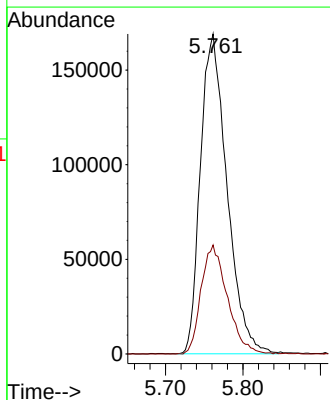
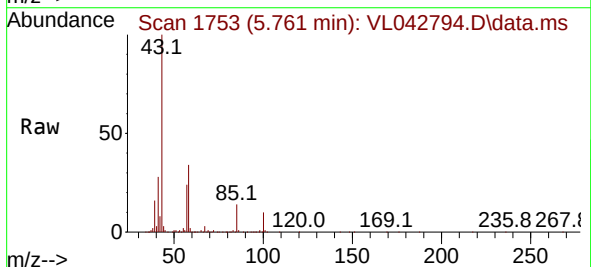
Manual Integrations
APPROVED

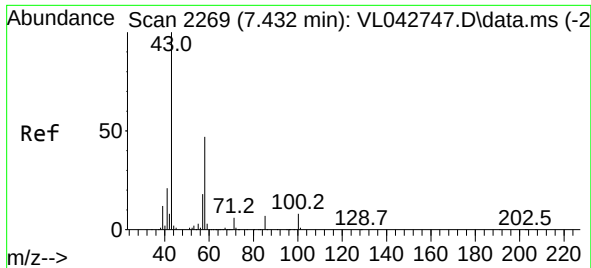
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#50
4-Methyl-2-Pentanone
Concen: 11.467 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

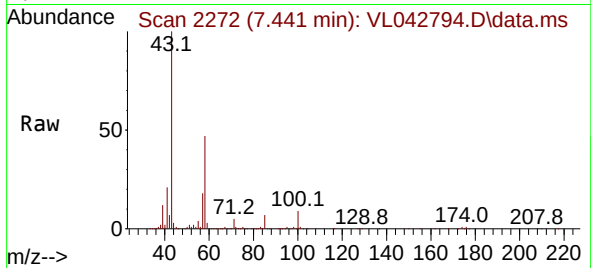
Tgt Ion: 43 Resp: 403132
Ion Ratio Lower Upper
43 100
58 33.5 27.8 41.8





#51
2-Hexanone
Concen: 12.152 ppbv
RT: 7.441 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

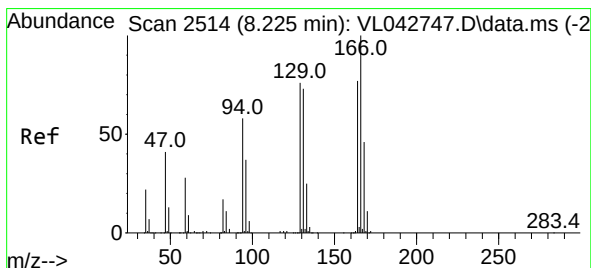
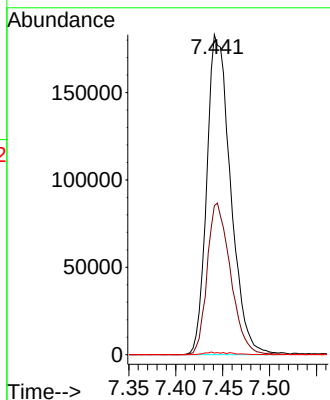
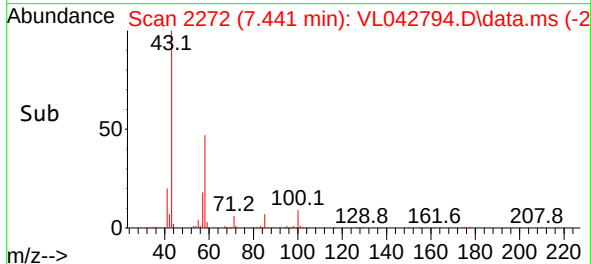
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 43 Resp: 32282
Ion Ratio Lower Upper
43 100
58 46.5 38.0 57.0
98 0.9 0.2 0.4

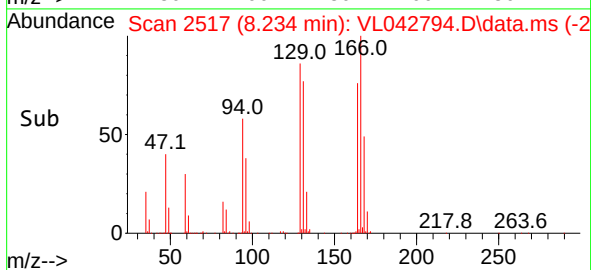
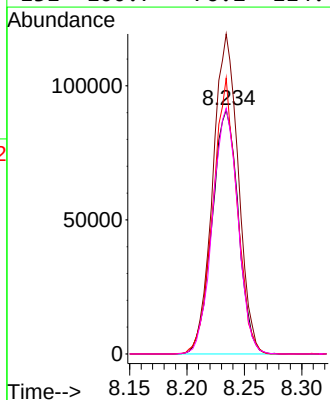
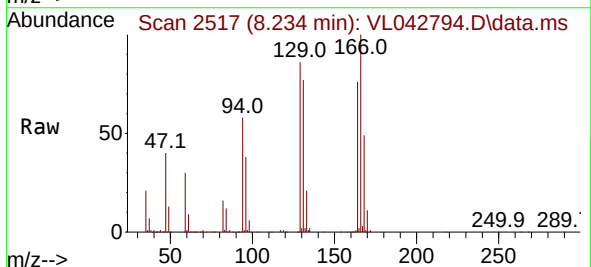
Manual Integrations
APPROVED

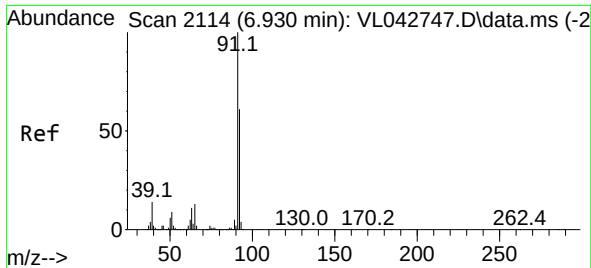
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#52
Tetrachloroethene
Concen: 9.518 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.009 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:164 Resp: 144051
Ion Ratio Lower Upper
164 100
166 131.1 104.0 156.0
129 112.9 79.2 118.8
131 100.7 76.2 114.4





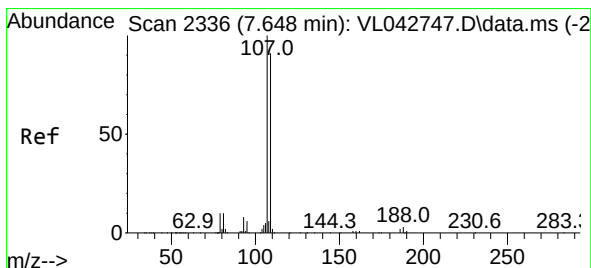
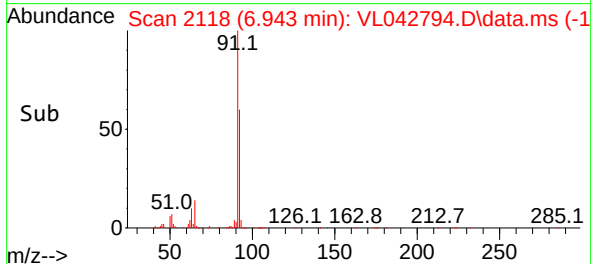
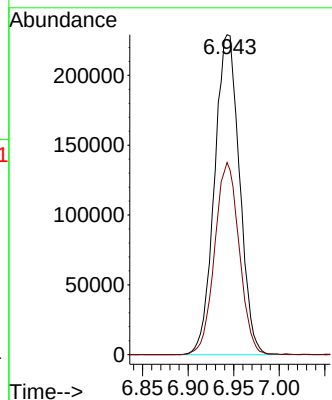
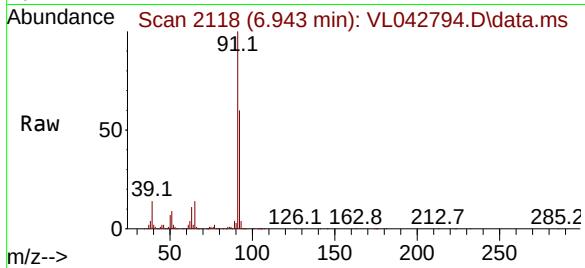
#53
Toluene
Concen: 11.135 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 91 Resp: 43660
Ion Ratio Lower Upper
91 100
92 59.1 48.0 72.0

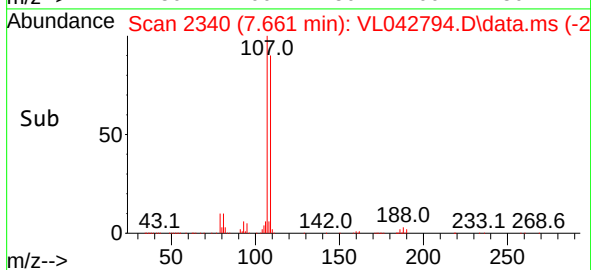
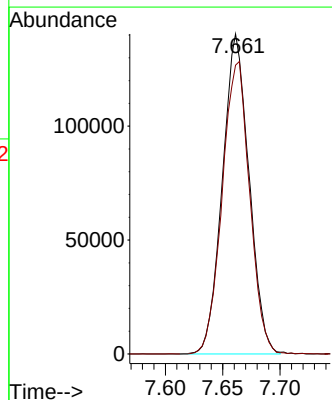
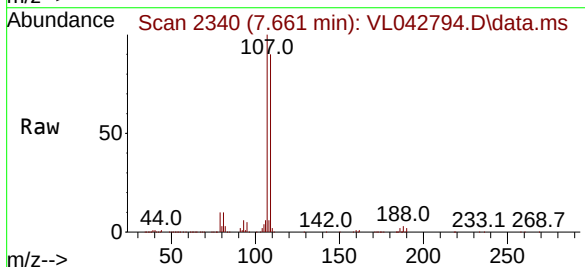
Manual Integrations
APPROVED

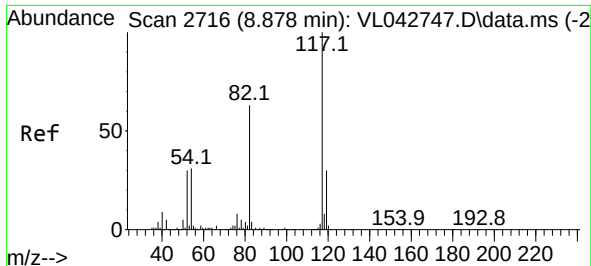
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

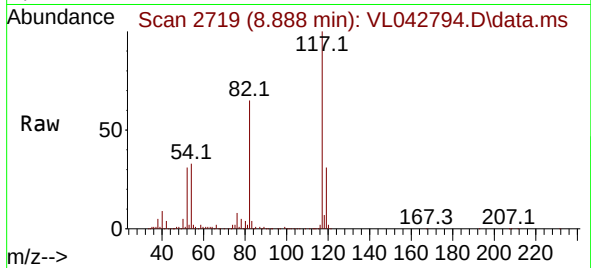
Tgt Ion:107 Resp: 226779
Ion Ratio Lower Upper
107 100
109 90.2 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

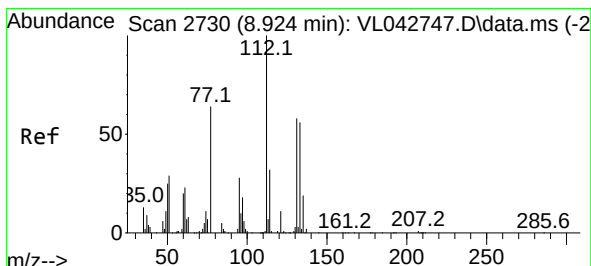
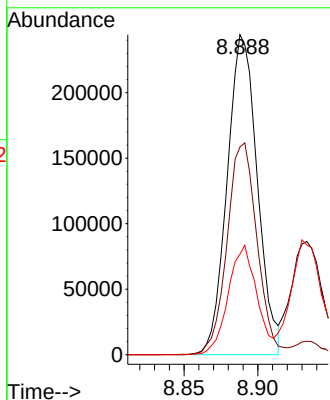
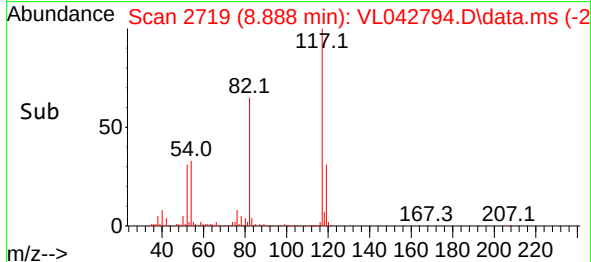
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion:117 Resp: 34768
Ion Ratio Lower Upper
117 100
82 69.6 53.3 79.9
119 33.5 25.8 38.6

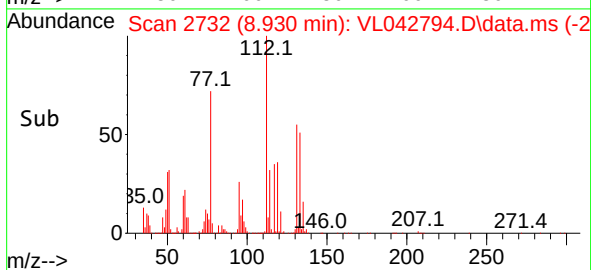
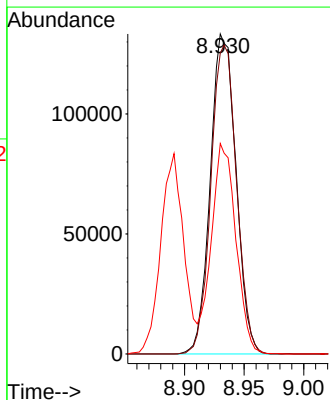
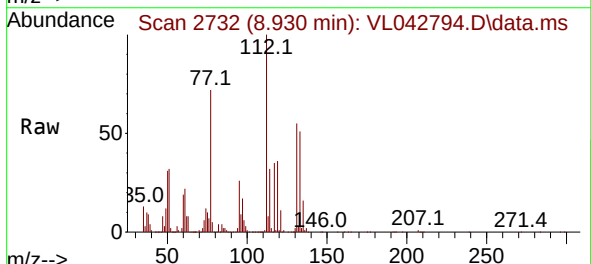
Manual Integrations
APPROVED

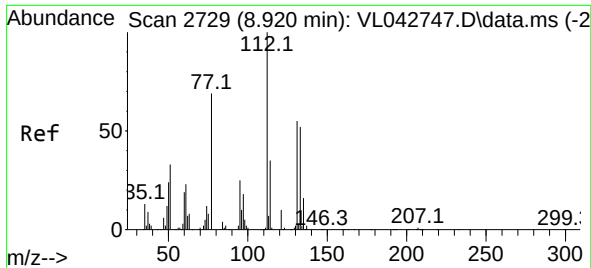
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.035 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

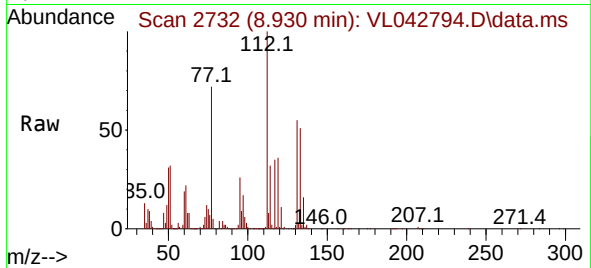
Tgt Ion:131 Resp: 199484
Ion Ratio Lower Upper
131 100
133 96.5 76.8 115.2
119 64.2 49.7 74.5





#57
Chlorobenzene
Concen: 10.519 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

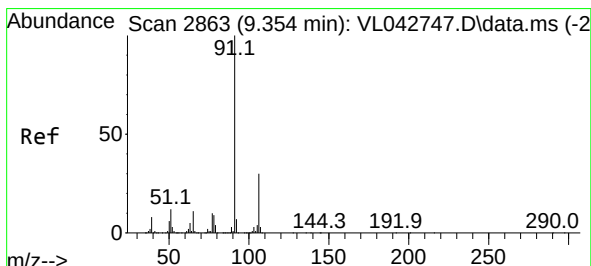
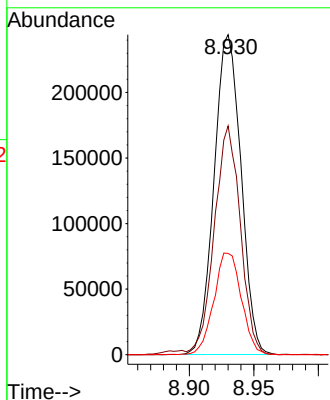
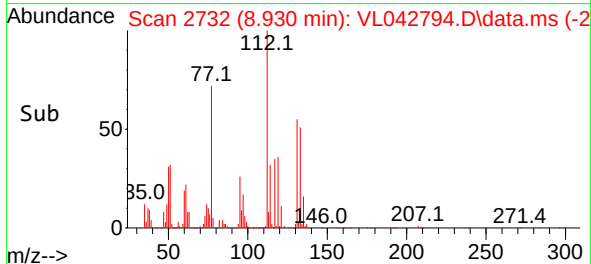
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion:112 Resp: 353940
Ion Ratio Lower Upper
112 100
77 71.6 56.4 84.6
114 31.6 31.2 38.2

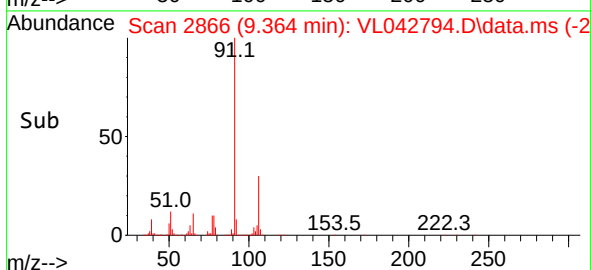
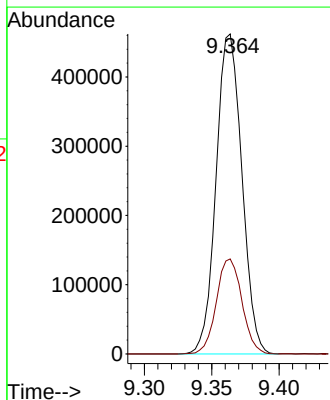
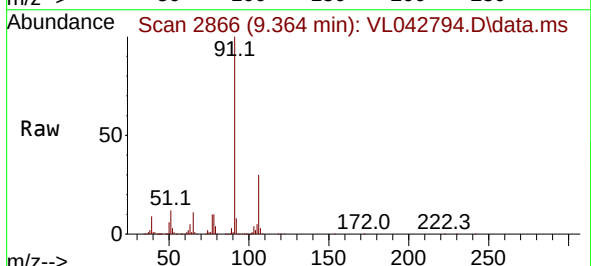
Manual Integrations
APPROVED

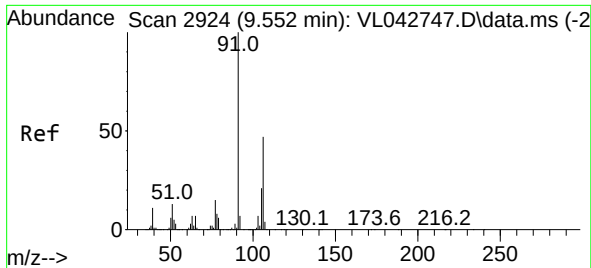
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#58
Ethyl Benzene
Concen: 11.212 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 615615
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6





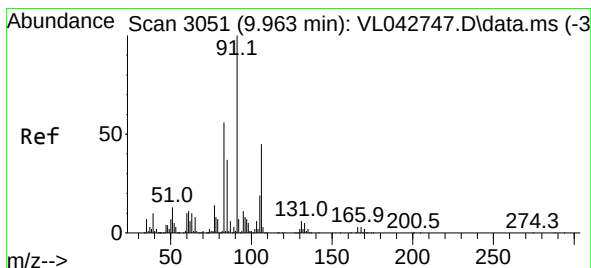
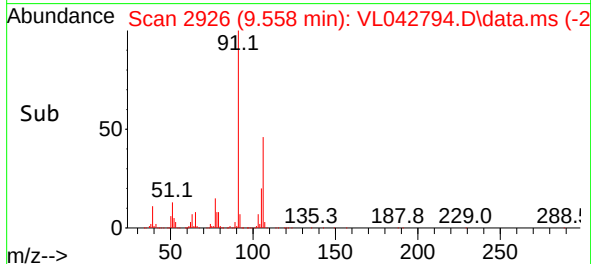
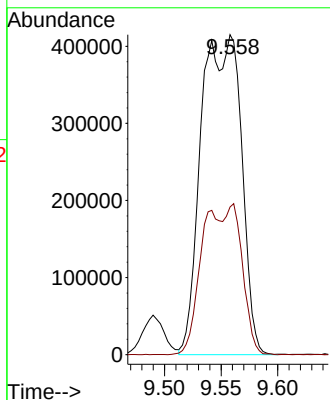
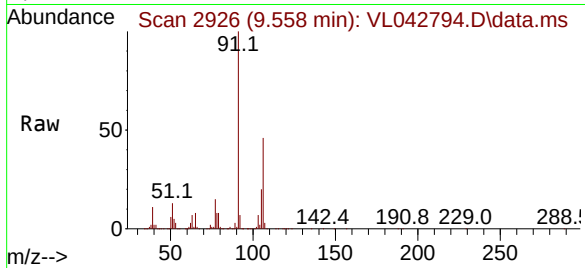
#59
m/p-Xylene
Concen: 23.289 ppbv m
RT: 9.558 min Scan# 2924
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 91 Resp: 1021929
Ion Ratio Lower Upper
91 100
106 46.6 37.4 56.2

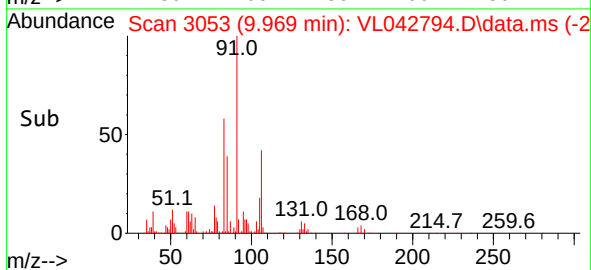
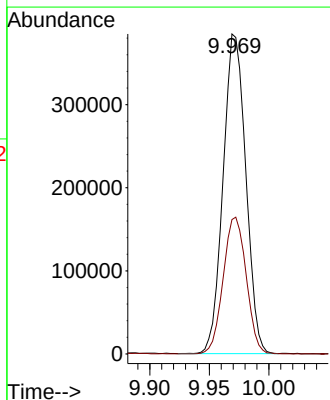
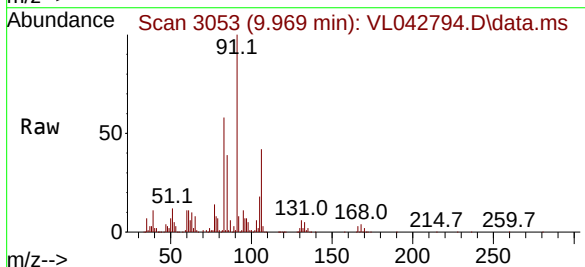
Manual Integrations
APPROVED

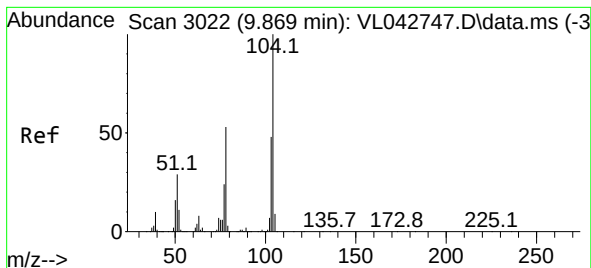
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#60
o-Xylene
Concen: 11.615 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 509306
Ion Ratio Lower Upper
91 100
106 43.6 22.0 66.0





#61

Styrene

Concen: 11.813 ppbv

RT: 9.878 min Scan# 3022

Delta R.T. 0.009 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

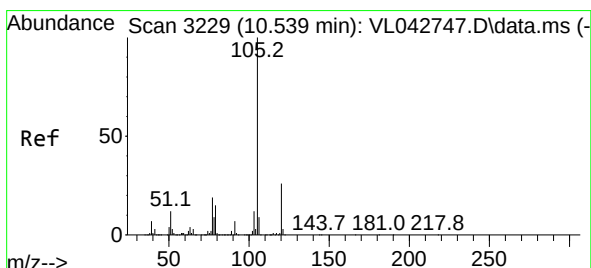
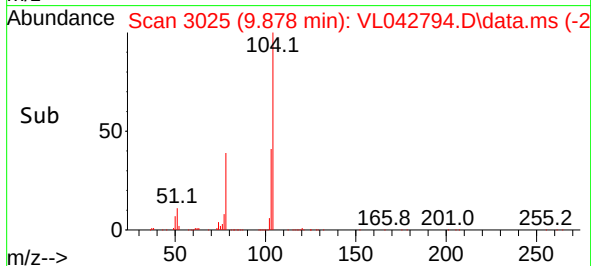
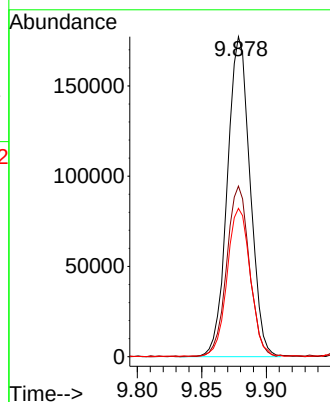
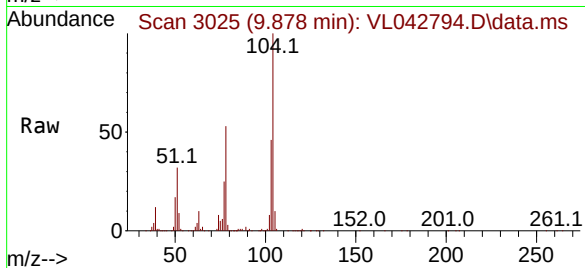
VL0731ABSD01

Tgt Ion:104 Resp: 217878
Ion Ratio Lower Upper
104 100
78 53.1 41.5 62.3
103 47.6 37.5 56.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#62

Isopropylbenzene

Concen: 11.304 ppbv

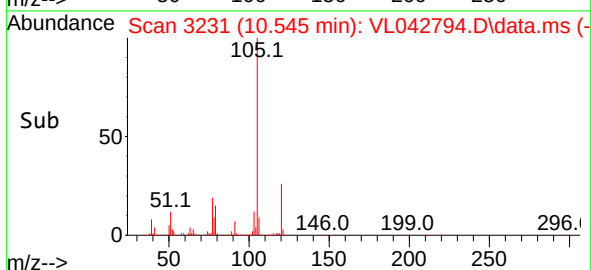
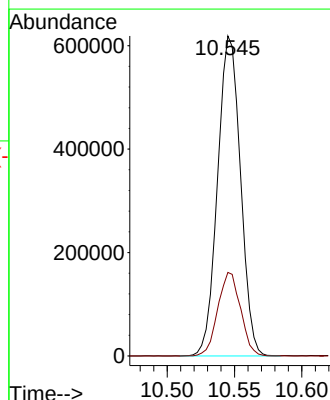
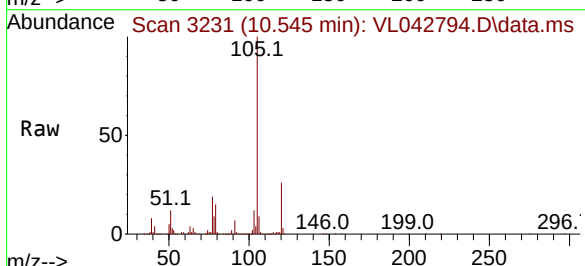
RT: 10.545 min Scan# 3231

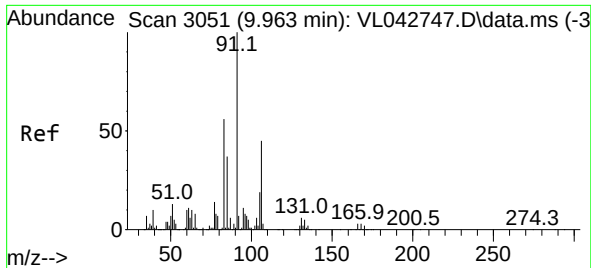
Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

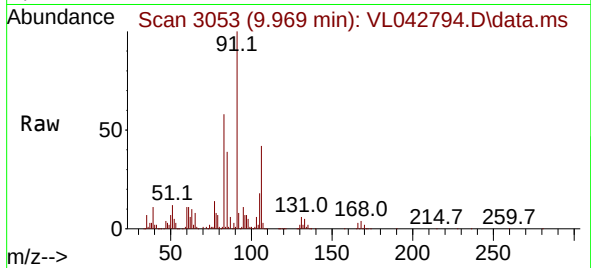
Tgt Ion:105 Resp: 731077
Ion Ratio Lower Upper
105 100
120 25.9 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 10.323 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

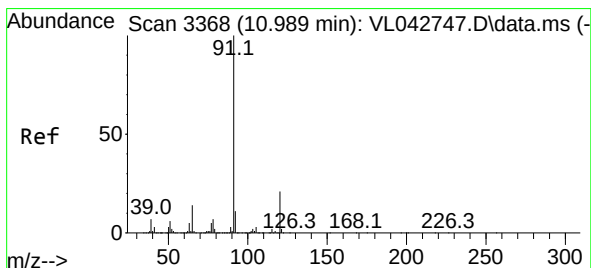
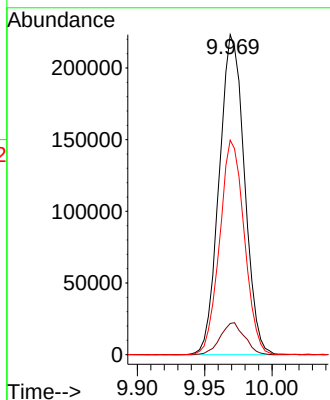
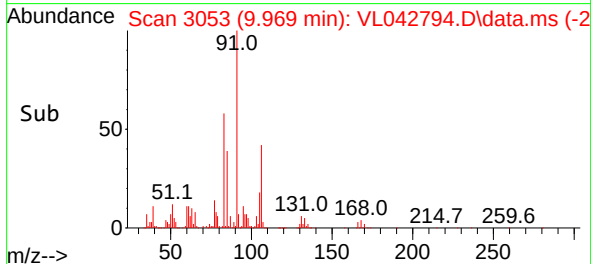
Instrument : MSVOA_L
ClientSampleId : VL0731ABSD01



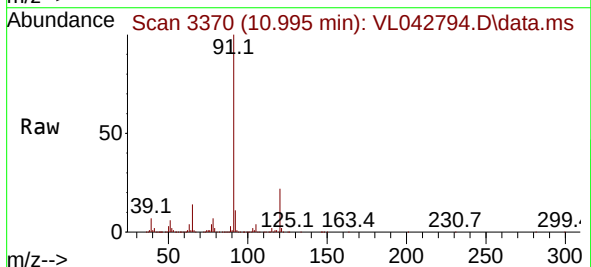
Tgt Ion: 83 Resp: 29057
Ion Ratio Lower Upper
83 100
131 9.6 5.0 15.0
85 65.6 32.6 97.7

Manual Integrations
APPROVED

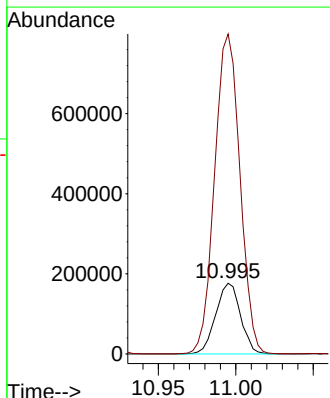
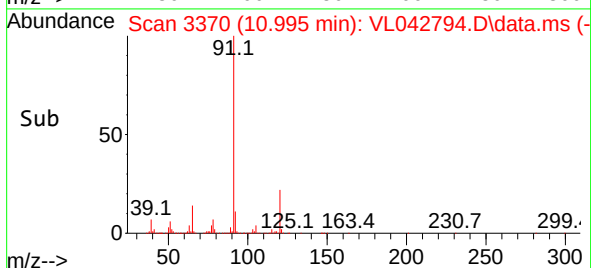
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

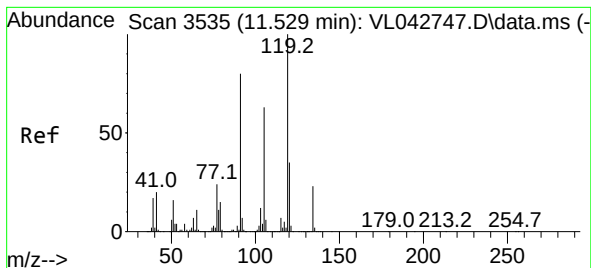


#64
n-propylbenzene
Concen: 11.637 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion:120 Resp: 196210
Ion Ratio Lower Upper
120 100
91 464.6 372.7 559.1





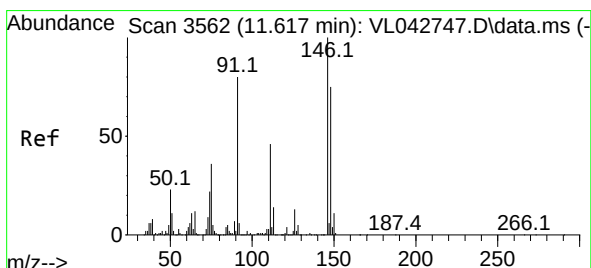
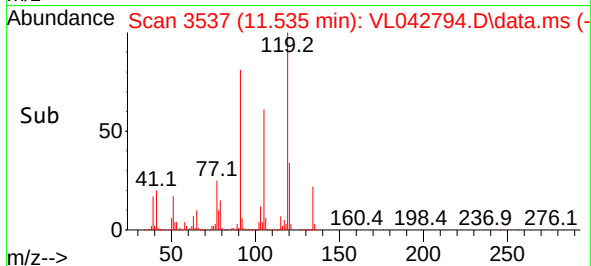
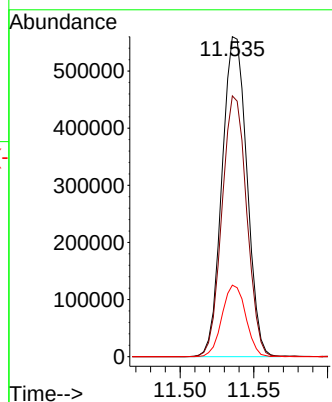
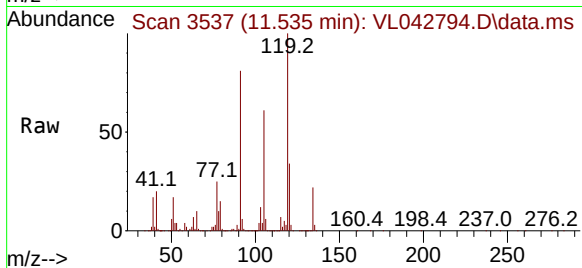
#65
tert-Butylbenzene
Concen: 11.427 ppbv
RT: 11.535 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion:119 Resp: 65649
Ion Ratio Lower Upper
119 100
91 81.0 64.0 96.0
134 21.4 17.3 25.9

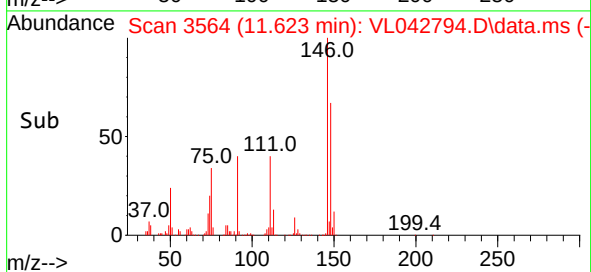
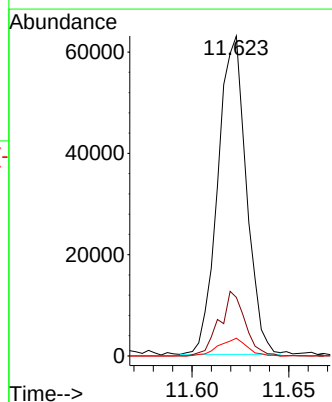
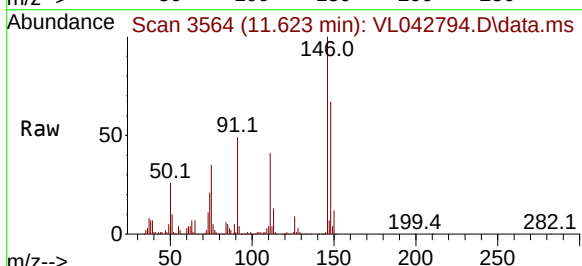
Manual Integrations
APPROVED

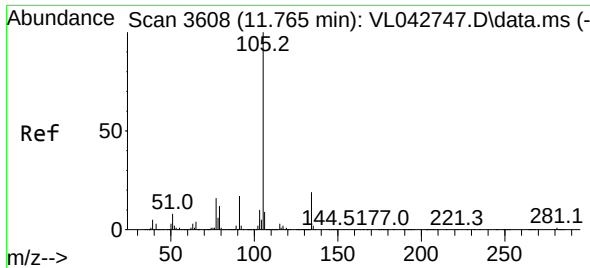
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#66
Benzyl Chloride
Concen: 13.634 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

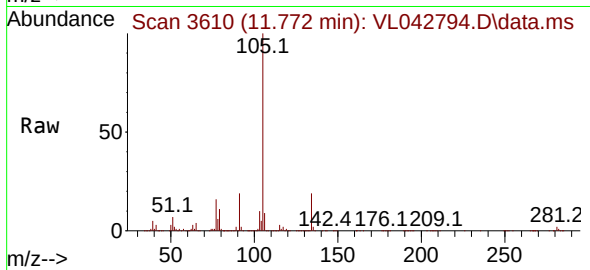
Tgt Ion: 91 Resp: 64301
Ion Ratio Lower Upper
91 100
126 18.3 14.4 21.6
128 5.6 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 11.374 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

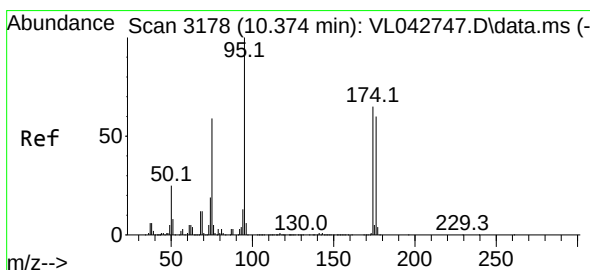
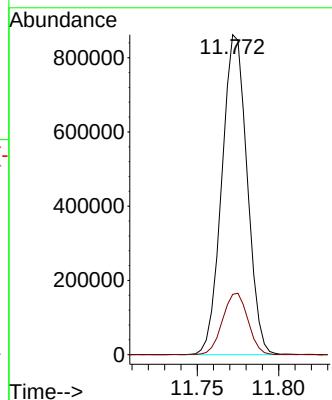
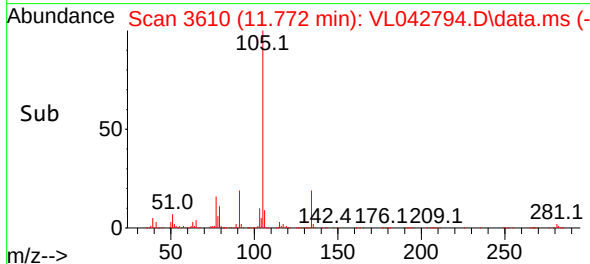
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



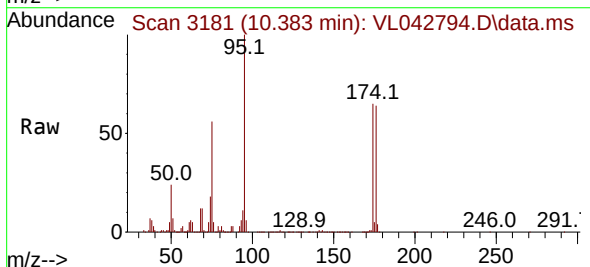
Tgt Ion:105 Resp: 92935
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3

Manual Integrations
 APPROVED

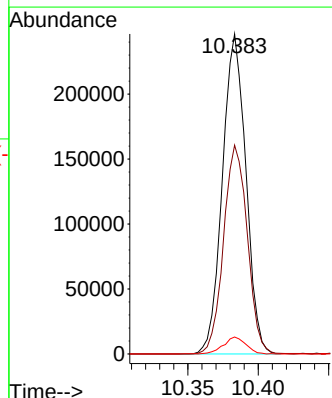
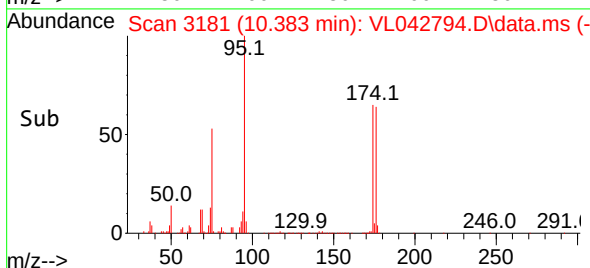
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

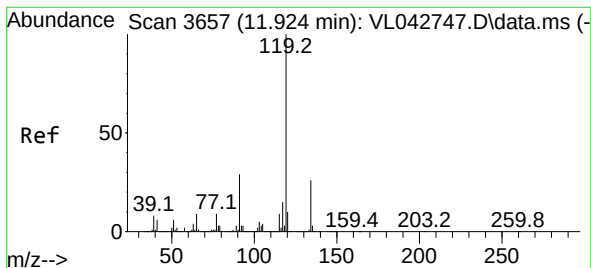


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.386 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.009 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



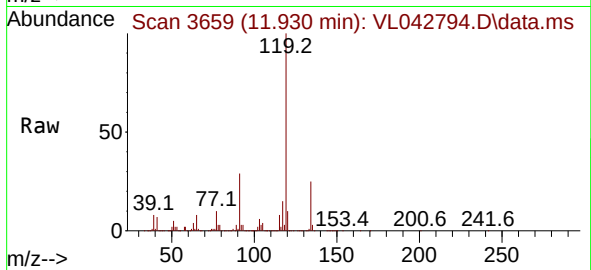
Tgt Ion: 95 Resp: 285966
 Ion Ratio Lower Upper
 95 100
 174 66.1 53.8 80.6
 175 5.1 4.0 6.0





#69
p-Isopropyltoluene
Concen: 11.766 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

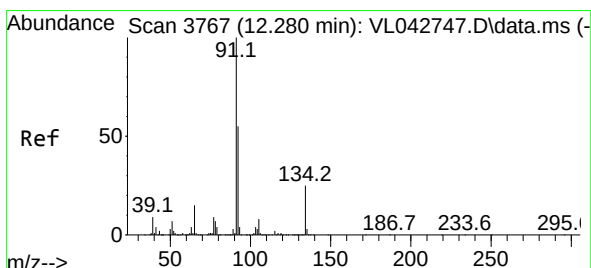
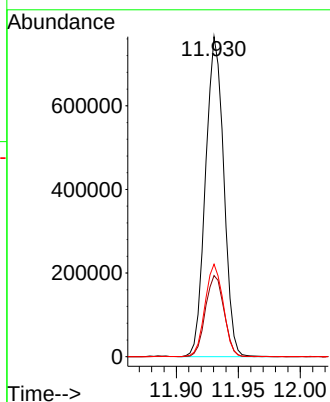
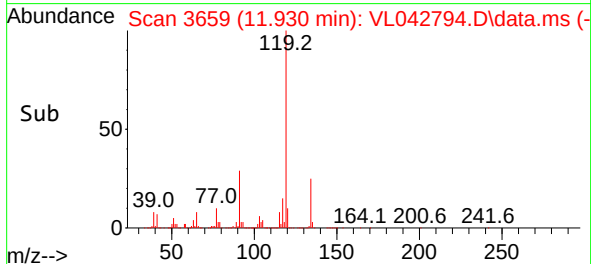
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



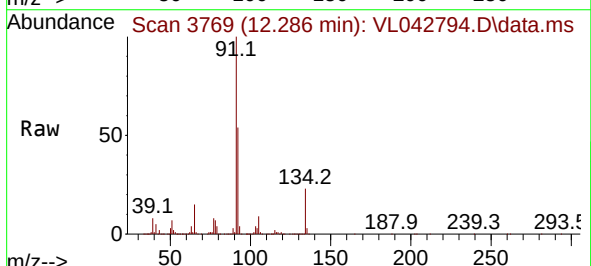
Tgt Ion: 119 Resp: 783925
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 28.9 23.2 34.8

Manual Integrations
APPROVED

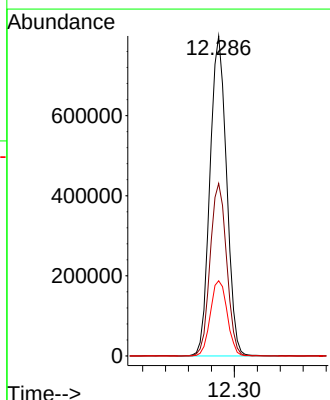
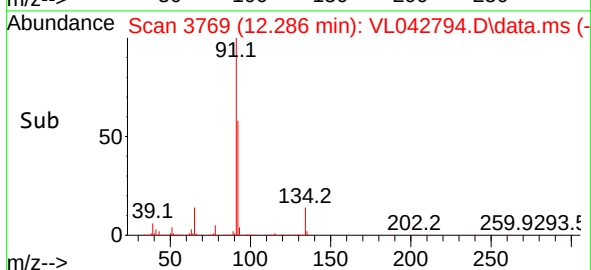
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

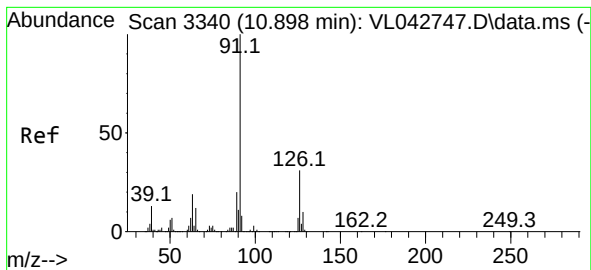


#70
n-Butylbenzene
Concen: 12.474 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



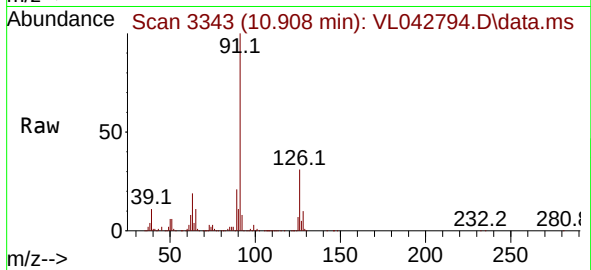
Tgt Ion: 91 Resp: 802758
Ion Ratio Lower Upper
91 100
92 53.6 43.4 65.2
134 23.9 19.6 29.4





#71
2-Chlorotoluene
Concen: 11.306 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

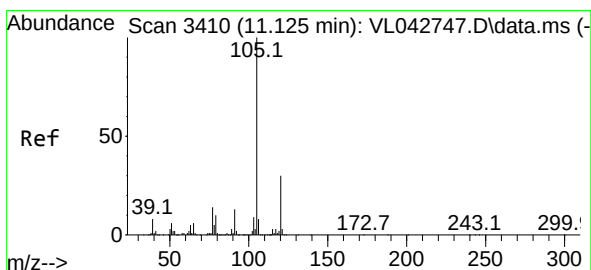
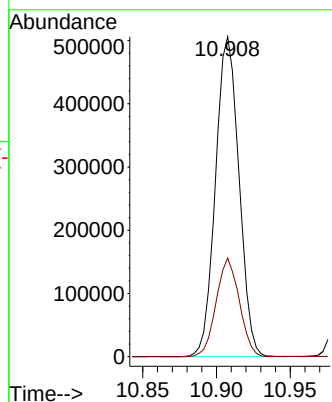
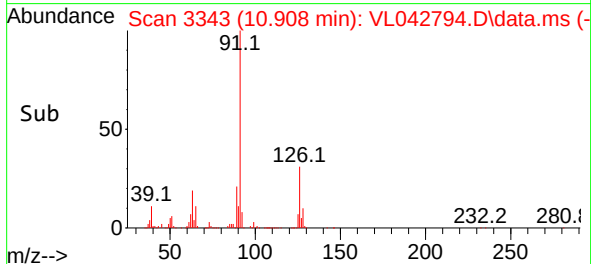
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



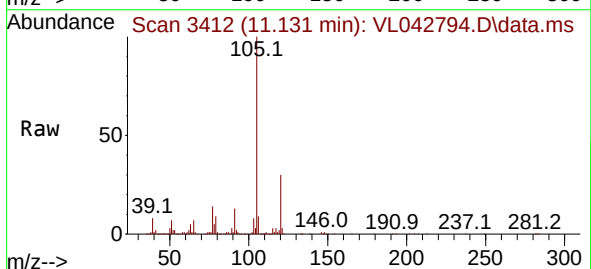
Tgt Ion: 91 Resp: 560672
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2

Manual Integrations
APPROVED

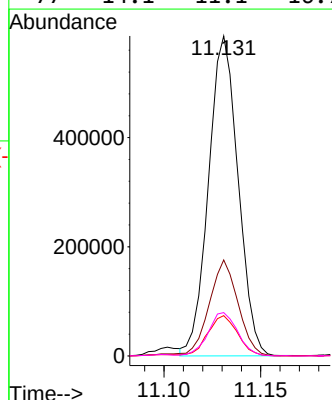
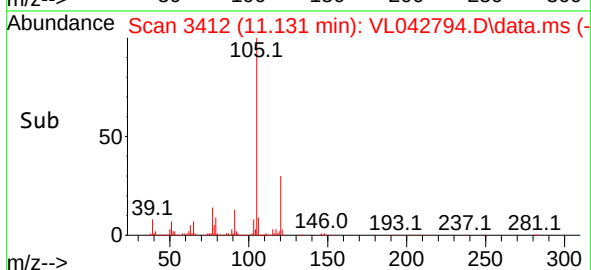
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

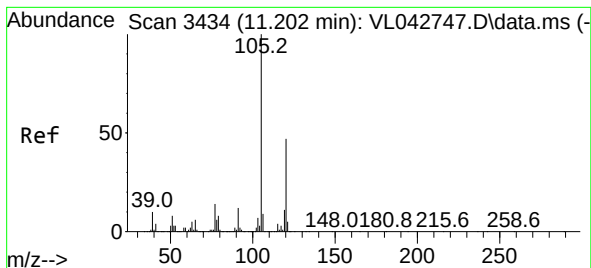


#72
4-Ethyltoluene
Concen: 11.893 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion:105 Resp: 622768
Ion Ratio Lower Upper
105 100
120 29.9 24.4 36.6
91 13.0 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 12.114 ppbv

RT: 11.209 min Scan# 3434

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion:105 Resp: 522269

Ion Ratio Lower Upper

105 100

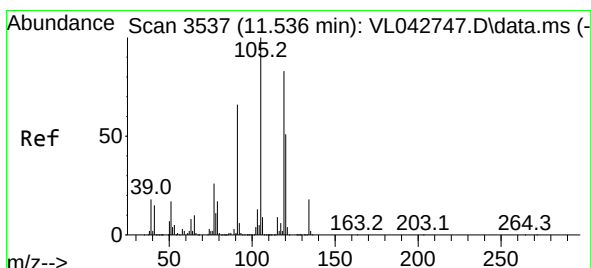
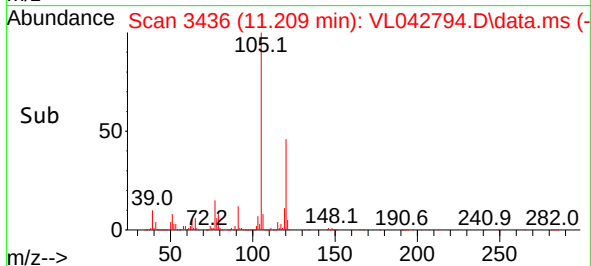
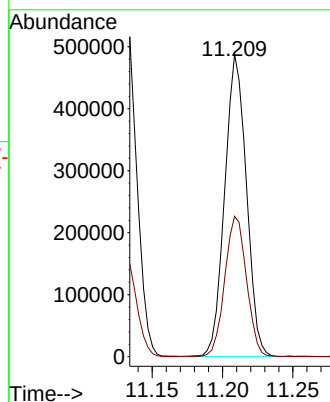
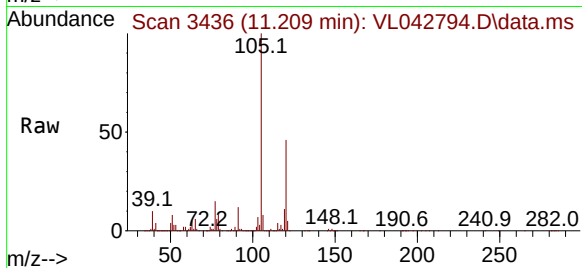
120 46.5 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.248 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:105 Resp: 576097

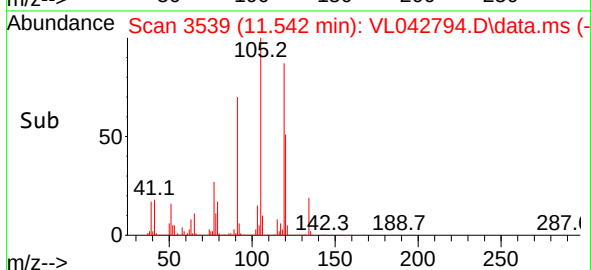
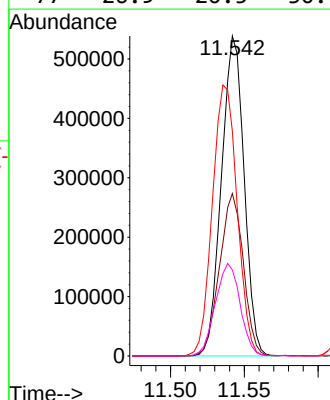
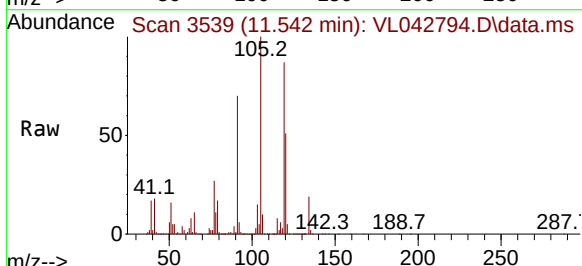
Ion Ratio Lower Upper

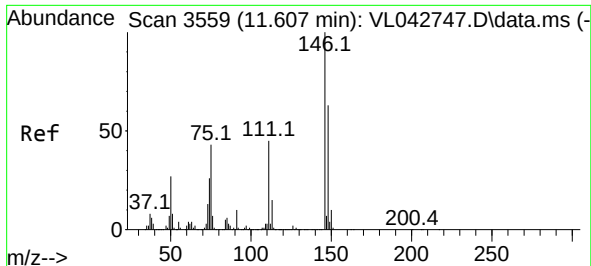
105 100

120 50.7 40.8 61.2

91 70.2 53.0 79.4

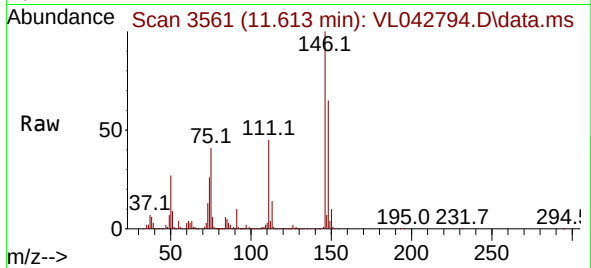
77 26.9 20.5 30.7





#75
1,3-Dichlorobenzene
Concen: 11.224 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

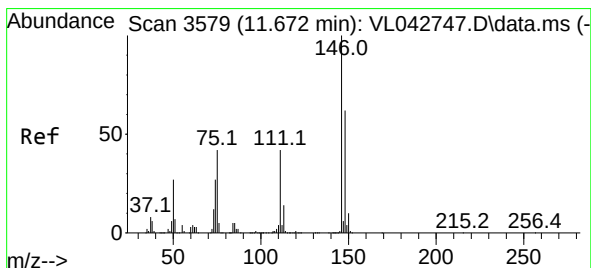
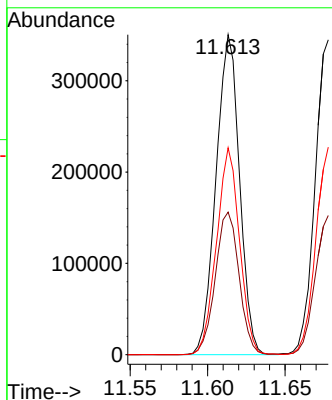
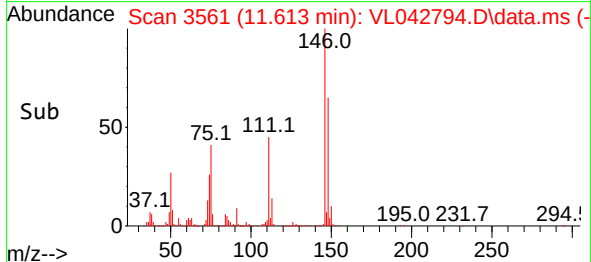
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



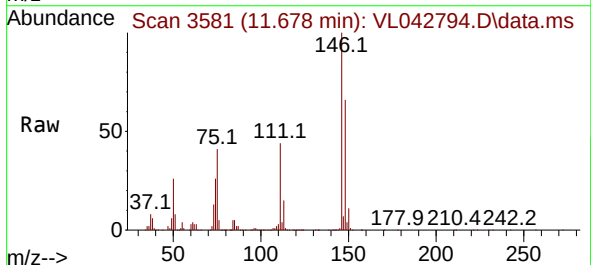
Tgt Ion:146 Resp: 370097
Ion Ratio Lower Upper
146 100
111 45.2 22.7 68.0
148 63.4 31.9 95.5

Manual Integrations
APPROVED

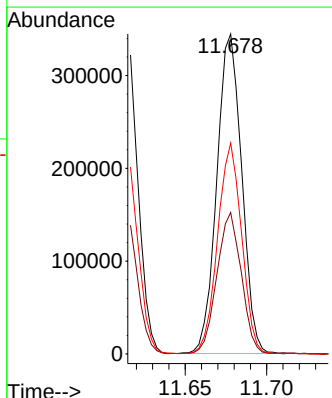
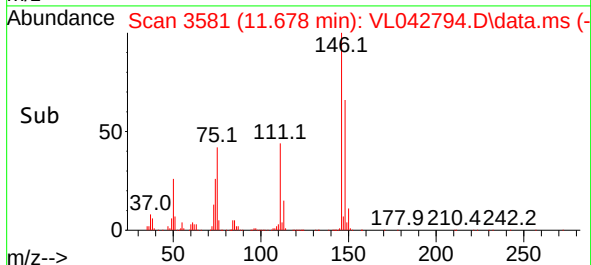
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

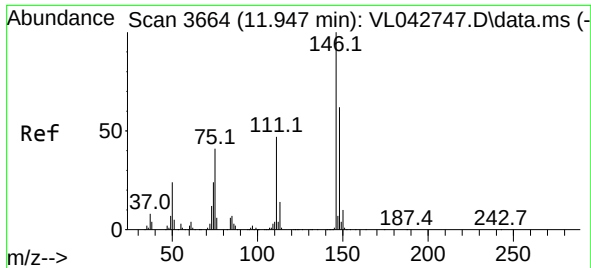


#76
1,4-Dichlorobenzene
Concen: 11.326 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



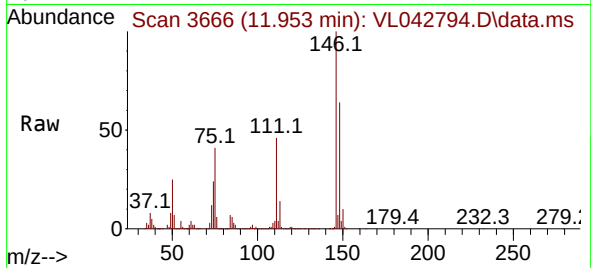
Tgt Ion:146 Resp: 365448
Ion Ratio Lower Upper
146 100
111 43.8 21.4 64.2
148 63.8 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 11.043 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

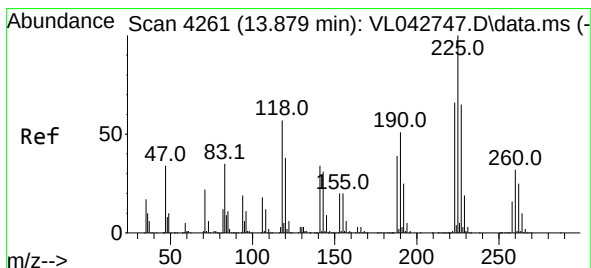
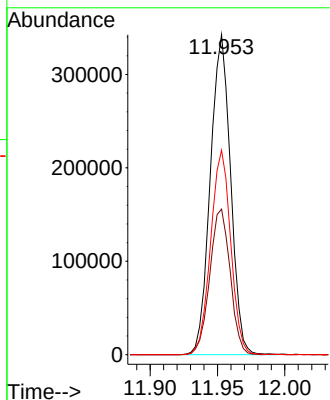
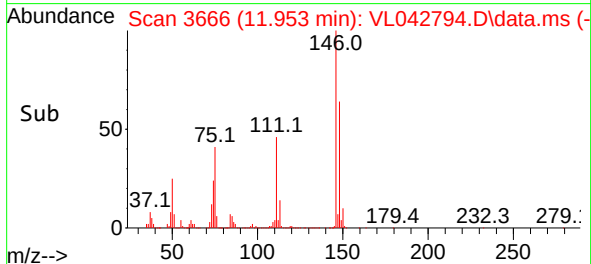
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



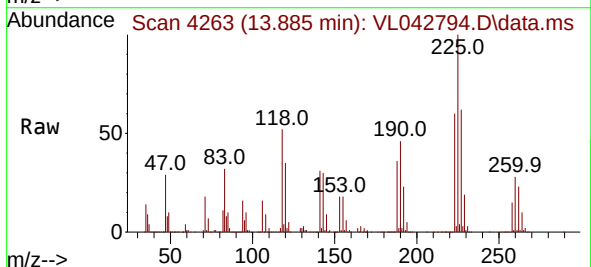
Tgt Ion:146 Resp: 357874
Ion Ratio Lower Upper
146 100
111 46.0 23.7 71.1
148 63.4 32.6 97.7

Manual Integrations
APPROVED

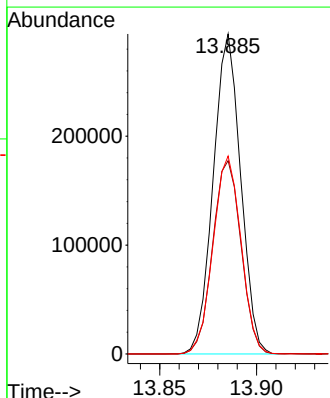
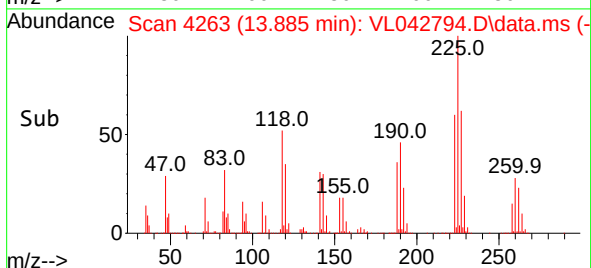
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

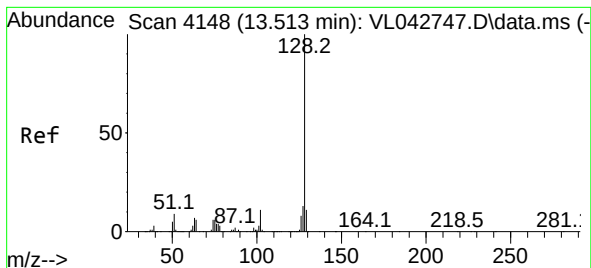


#78
Hexachloro-1,3-Butadiene
Concen: 9.863 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion:225 Resp: 289316
Ion Ratio Lower Upper
225 100
223 62.5 50.7 76.1
227 63.1 50.5 75.7





#79

Naphthalene

Concen: 10.791 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042794.D

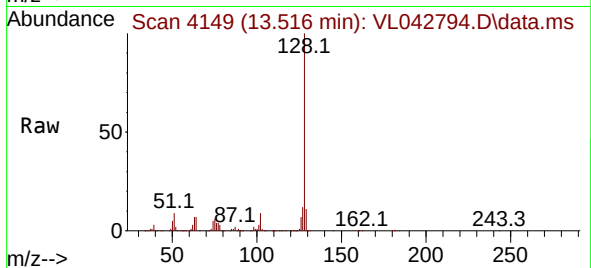
Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01



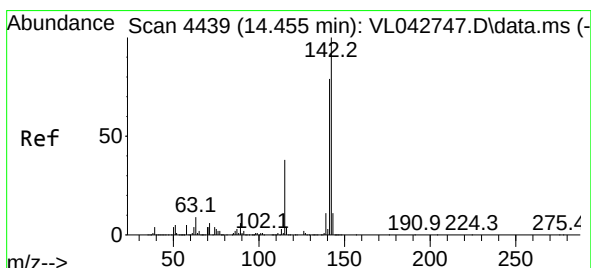
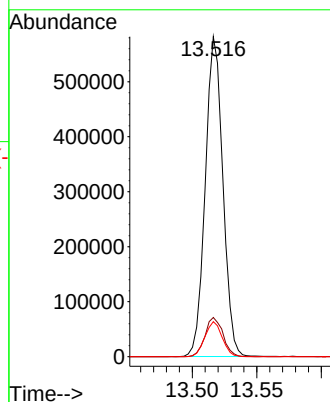
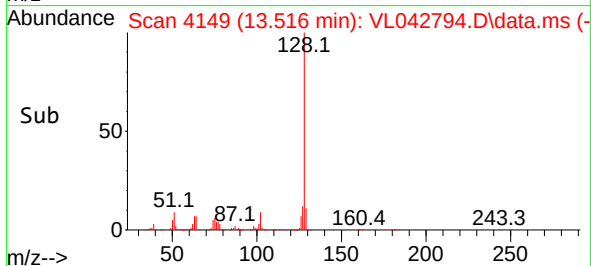
Tgt Ion:128 Resp: 552592

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.5	15.7
129	10.9	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#80

Naphthalene,2-methyl-

Concen: 8.445 ppbv

RT: 14.461 min Scan# 4441

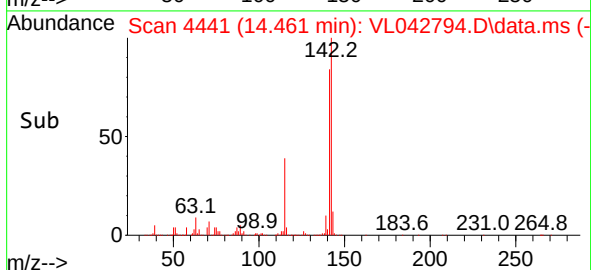
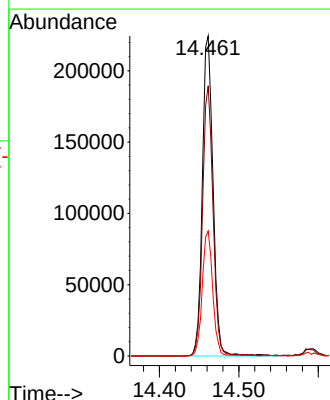
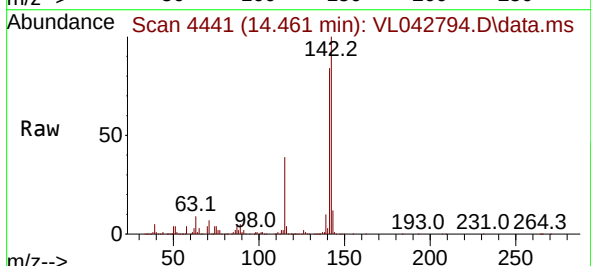
Delta R.T. 0.006 min

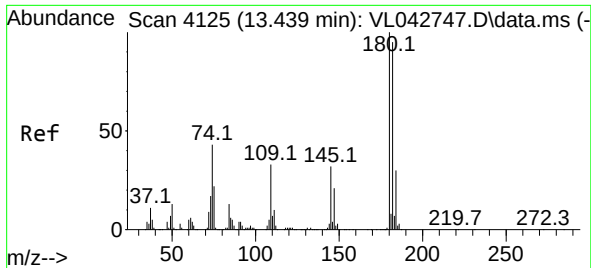
Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:142 Resp: 210490

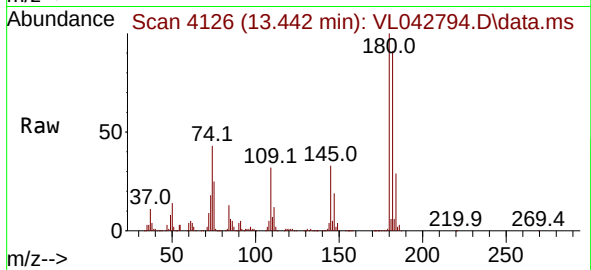
Ion	Ratio	Lower	Upper
142	100		
141	83.5	65.8	98.8
115	38.7	31.2	46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.803 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

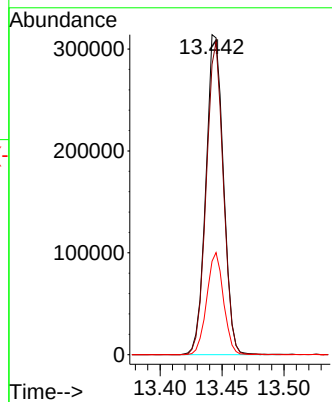
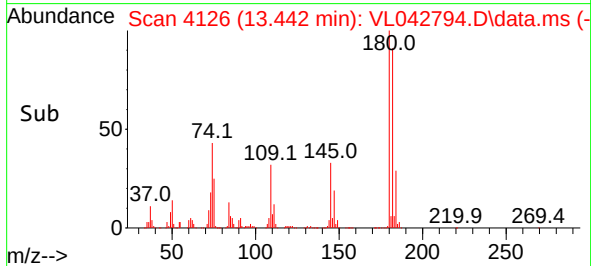
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



Tgt Ion:180 Resp: 310917
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.2 114.2
 184 30.5 24.8 37.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDadoda	7/24/2025 2:20:57 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	1,4-Dioxane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,4-Dioxane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	2-Hexanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Benzyl Chloride	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL042752.D	Trichloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC015	VL042753.D	m/p-Xylene	SAM	7/24/2025 9:03:41 AM	MMDadoda	7/24/2025 2:21:10 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Tetrachloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Trichloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL073125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042788.D	m/p-Xylene	SAM	8/1/2025 10:51:05 AM	MMDadoda	8/1/2025 4:16:30 PM	Peak Integrated by Software
VL0731ABS01	VL042790.D	m/p-Xylene	SAM	8/1/2025 10:51:10 AM	MMDadoda	8/1/2025 4:16:31 PM	Peak Integrated by Software
VL0731ABSD01	VL042794.D	m/p-Xylene	SAM	8/1/2025 10:51:25 AM	MMDadoda	8/1/2025 4:16:38 PM	Peak Integrated by Software

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	Mahesh 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 # VL073125

Review By	Semsettin Yesilyurt	Review On	8/1/2025 8:24:15 AM		
Supervise By	Maresh Dadoda	Supervise On	8/1/2025 4:16:51 PM		
SubDirectory	VL073125	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	VL042787.D	31 Jul 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042788.D	31 Jul 2025 08:37	SY/MD	Ok,M
3	VL0731ABL01	VL042789.D	31 Jul 2025 09:29	SY/MD	Ok
4	VL0731ABS01	VL042790.D	31 Jul 2025 10:15	SY/MD	Ok,M
5	Q2727-01	VL042791.D	31 Jul 2025 12:03	SY/MD	Dilution
6	Q2727-01DL	VL042792.D	31 Jul 2025 12:39	SY/MD	Dilution
7	Q2727-01DL2	VL042793.D	31 Jul 2025 13:15	SY/MD	Ok
8	VL0731ABSD01	VL042794.D	31 Jul 2025 13:55	SY/MD	Ok,M

M : Manual Integration

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#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042746.D	23 Jul 2025 08:00		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042747.D	23 Jul 2025 08:58		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042748.D	23 Jul 2025 09:34		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042749.D	23 Jul 2025 10:08	Comp. #13,79,80,81 are on Linear Regression	SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042750.D	23 Jul 2025 10:42		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042751.D	23 Jul 2025 11:16	Not used	SY/MD	Not Ok
7	VSTDICC0.03	VSTDICC0.03	VL042752.D	23 Jul 2025 11:50		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042753.D	23 Jul 2025 12:26	%D failed for Comp. #80 in 0.5 and 2 ppb	SY/MD	Ok,M
9	VSTDICC0.1	VSTDICC0.1	VL042754.D	23 Jul 2025 13:00	%D failed for Comp. #79 in 0.1 ppb	SY/MD	Ok,M
10	VSTDICV010	ICVVVL072325	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 # VL073125

Review By	Semsettin Yesilyurt	Review On	8/1/2025 8:24:15 AM
Supervise By	Maresh Dadoda	Supervise On	8/1/2025 4:16:51 PM
SubDirectory	VL073125	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#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042787.D	31 Jul 2025 07:46		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042788.D	31 Jul 2025 08:37		SY/MD	Ok,M
3	VL0731ABL01	VL0731ABL01	VL042789.D	31 Jul 2025 09:29		SY/MD	Ok
4	VL0731ABS01	VL0731ABS01	VL042790.D	31 Jul 2025 10:15		SY/MD	Ok,M
5	Q2727-01	AE073-1100	VL042791.D	31 Jul 2025 12:03	Need 2X	SY/MD	Dilution
6	Q2727-01DL	AE073-1100DL	VL042792.D	31 Jul 2025 12:39	Need 4X	SY/MD	Dilution
7	Q2727-01DL2	AE073-1100DL2	VL042793.D	31 Jul 2025 13:15		SY/MD	Ok
8	VL0731ABSD01	VL0731ABSD01	VL042794.D	31 Jul 2025 13:55		SY/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2727

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VL073125,

Standard ID :

AP2641,AP2642,AP2643,AP2644,AP2645,

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	AP2641	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

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	AP2642	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2641 = 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	AP2643	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2641 = 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	AP2644	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

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	AP2645	07/22/2025	08/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/28/2025
<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:

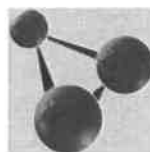
Signature:

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:

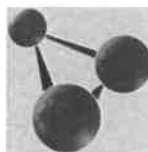
Date: 04/16/2025



*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	

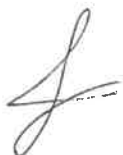
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do 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.

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

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 26 06:05:16 2022
 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

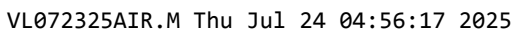
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

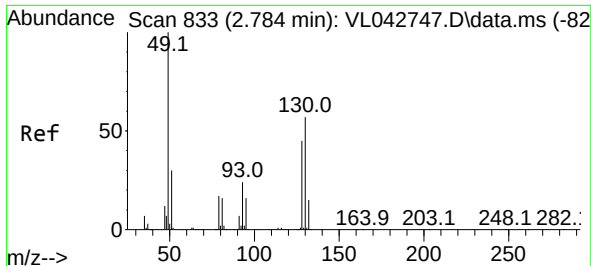
Quant Time: Jul 24 04:56:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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	460477	8.639	ppbv #	11
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

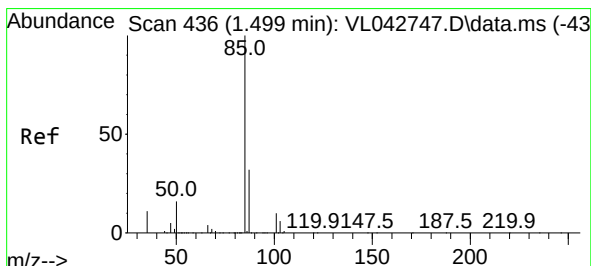
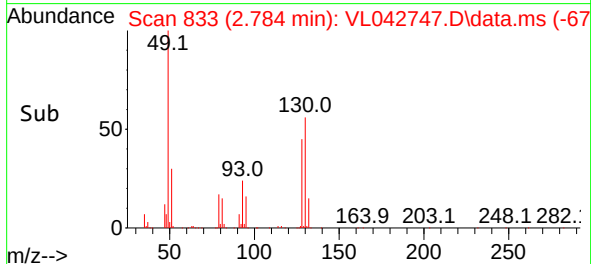
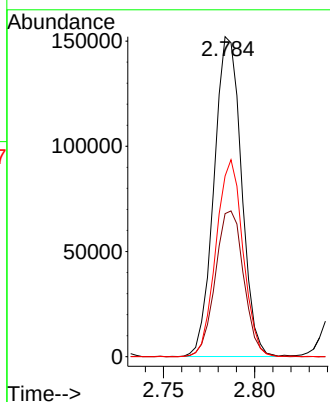
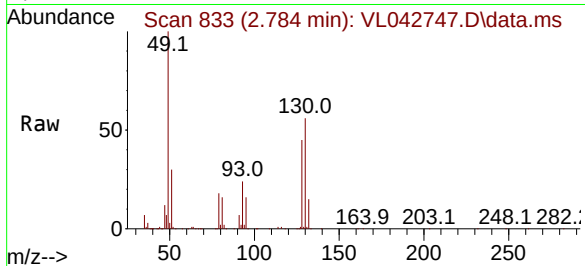




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

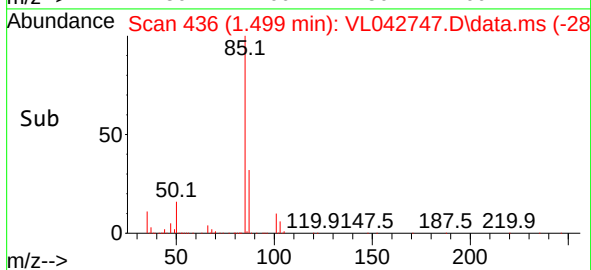
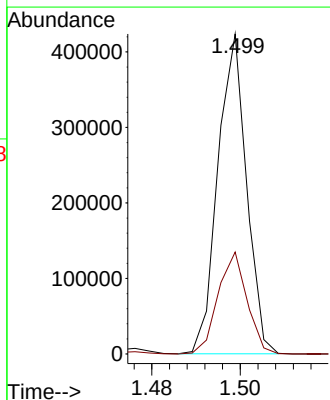
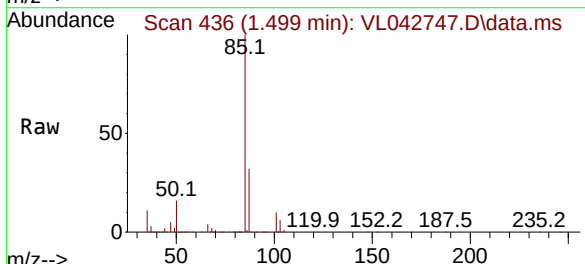
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

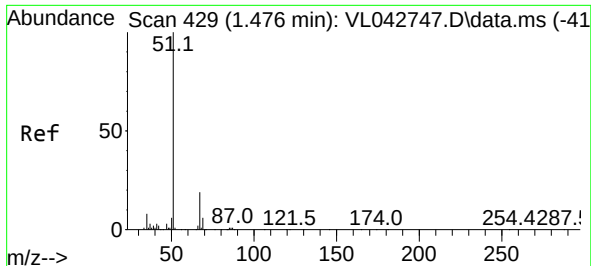
Tgt Ion: 49 Resp: 159080
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 60.5 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 9.062 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 190592
Ion Ratio Lower Upper
85 100
87 31.8 25.4 38.2

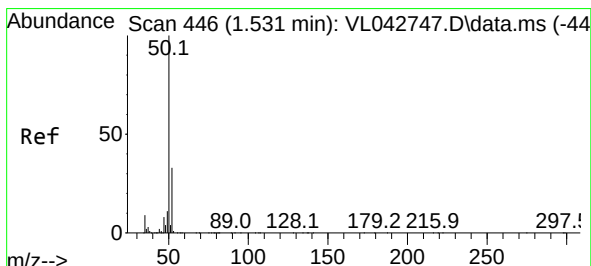
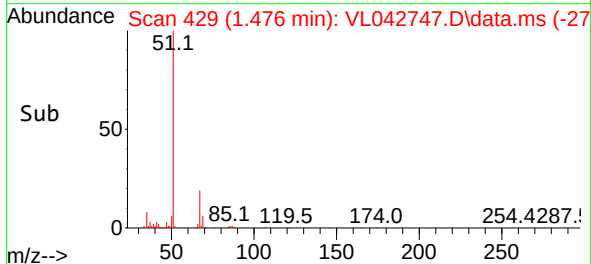
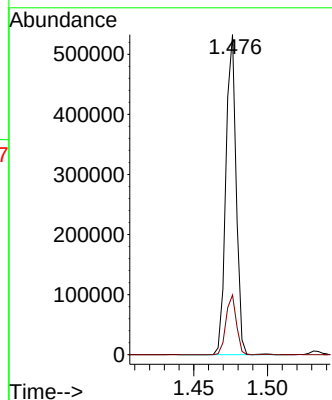
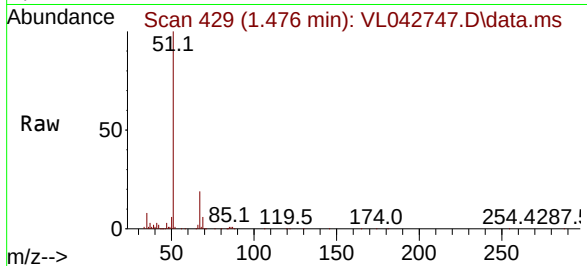




#3
Chlorodifluoromethane
Concen: 9.436 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

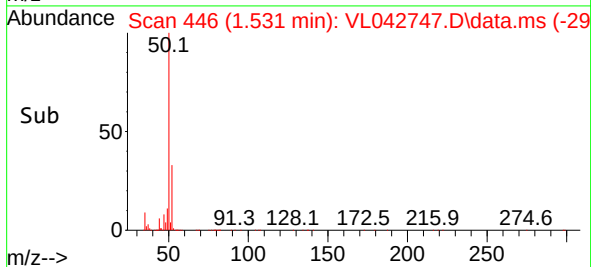
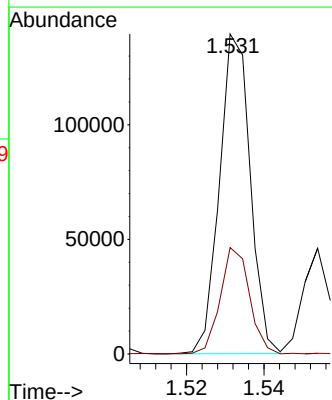
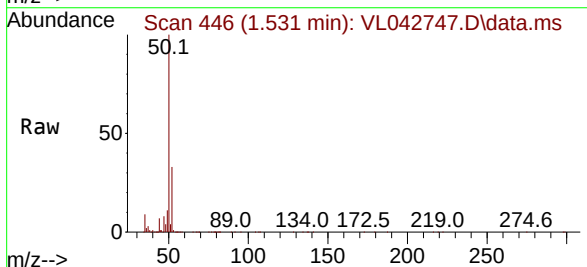
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

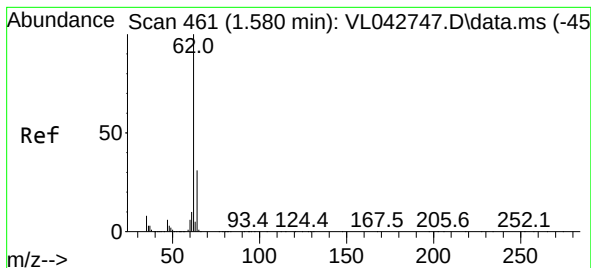
Tgt Ion: 51 Resp: 258542
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#4
Chloromethane
Concen: 9.050 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 50 Resp: 77006
Ion Ratio Lower Upper
50 100
52 33.3 26.6 40.0





#5

Vinyl Chloride

Concen: 7.773 ppbv

RT: 1.580 min Scan# 461

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

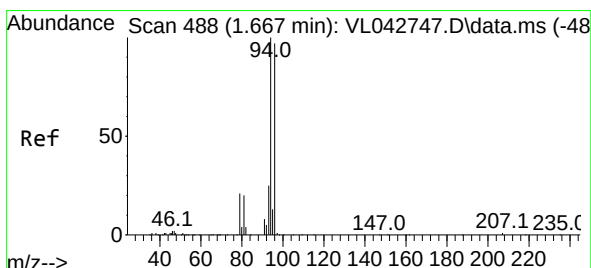
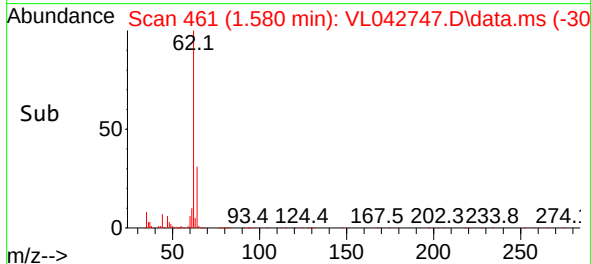
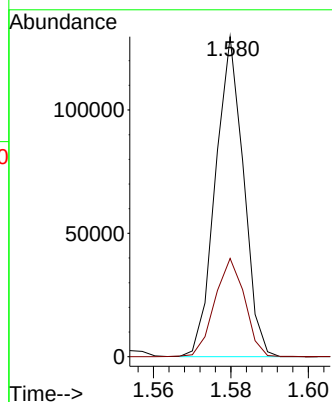
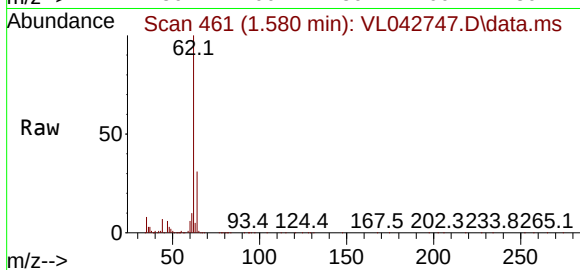
VSTDICCC010

Tgt Ion: 62 Resp: 65346

Ion Ratio Lower Upper

62 100

64 30.6 24.5 36.7



#6

Bromomethane

Concen: 8.705 ppbv

RT: 1.667 min Scan# 488

Delta R.T. 0.000 min

Lab File: VL042747.D

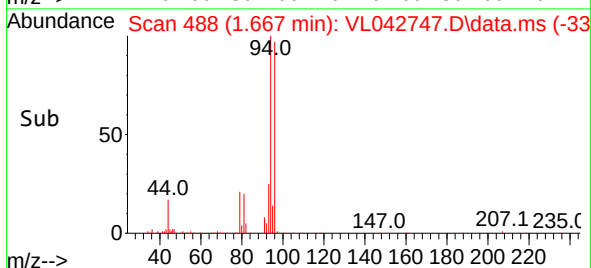
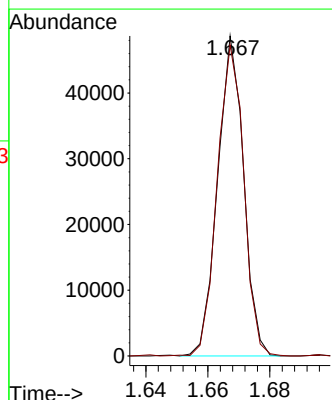
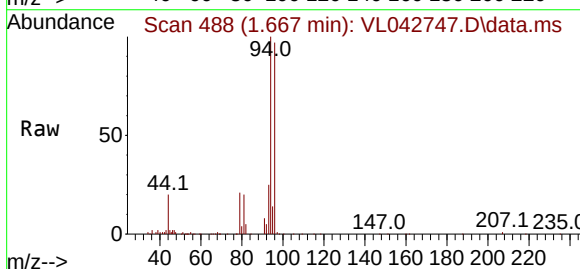
Acq: 23 Jul 2025 08:58

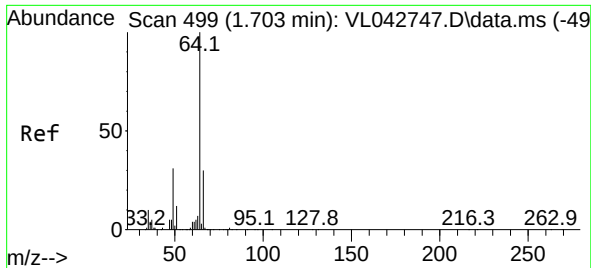
Tgt Ion: 94 Resp: 28292

Ion Ratio Lower Upper

94 100

96 97.0 77.6 116.4

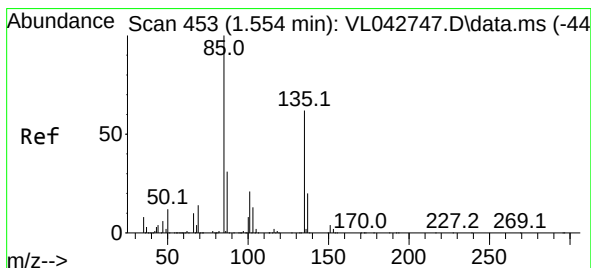
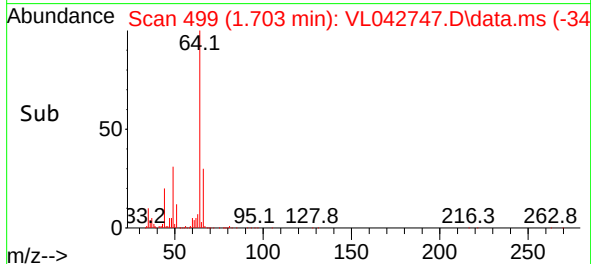
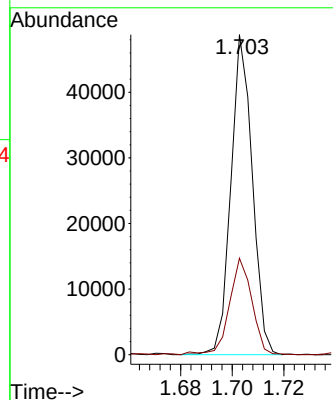
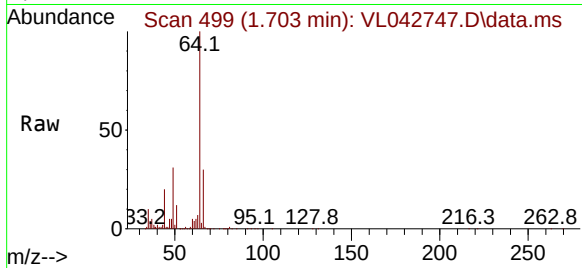




#7
Chloroethane
Concen: 8.646 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

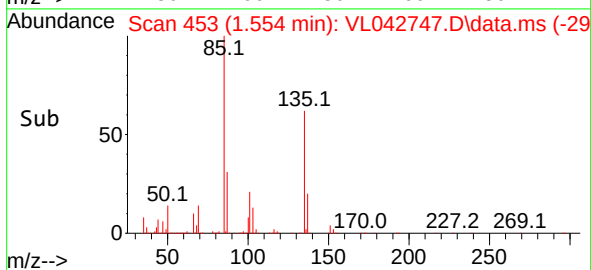
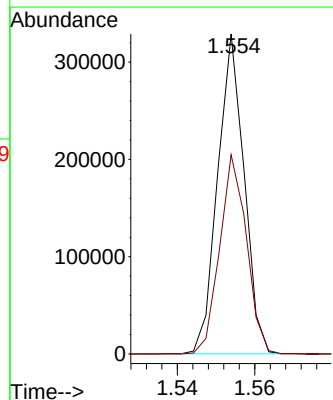
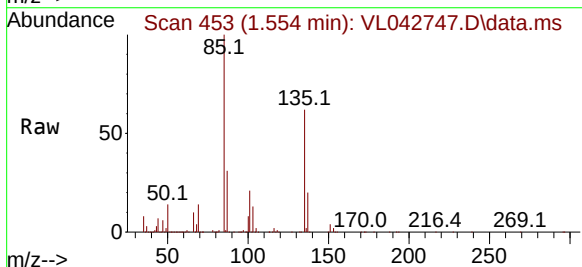
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

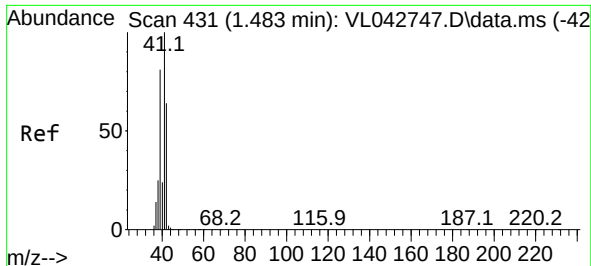
Tgt Ion: 64 Resp: 28085
Ion Ratio Lower Upper
64 100
66 30.1 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.011 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 155875
Ion Ratio Lower Upper
85 100
135 63.3 50.6 76.0





#9

Propene

Concen: 9.488 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

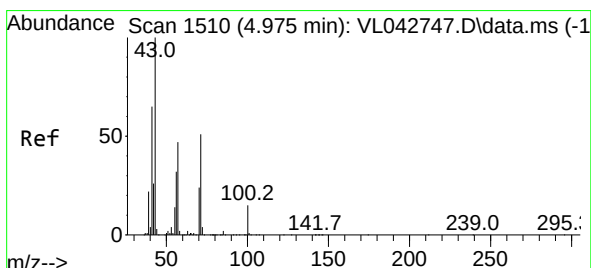
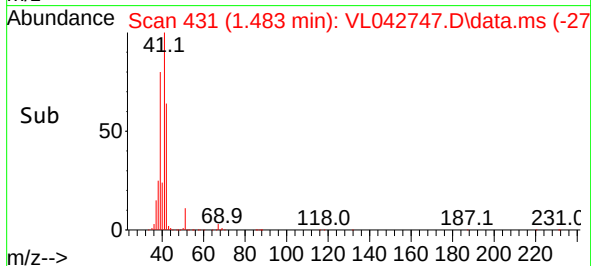
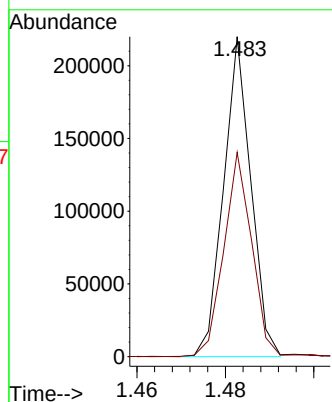
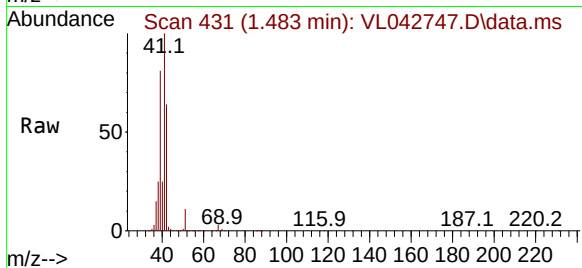
VSTDICCC010

Tgt Ion: 41 Resp: 94480

Ion Ratio Lower Upper

41 100

42 66.5 53.2 79.8



#10

Heptane

Concen: 9.701 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042747.D

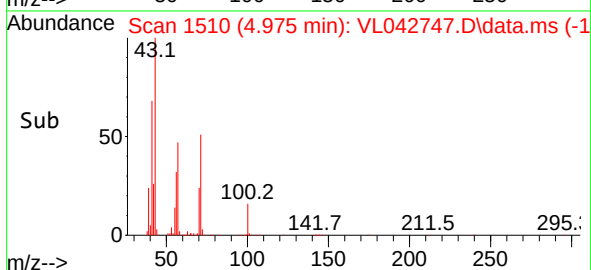
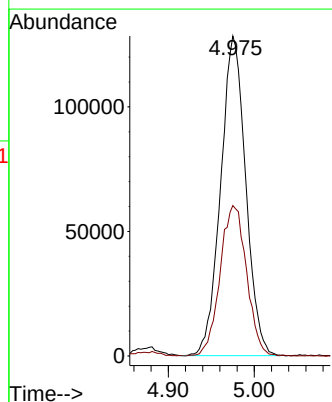
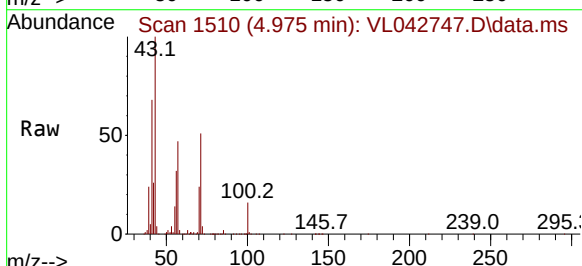
Acq: 23 Jul 2025 08:58

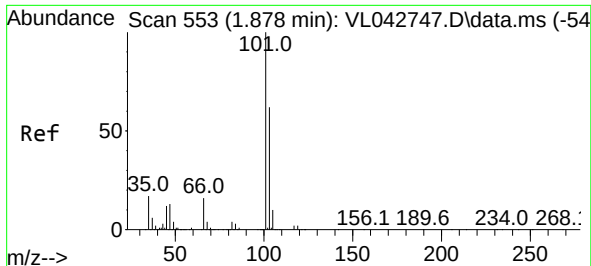
Tgt Ion: 43 Resp: 259821

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

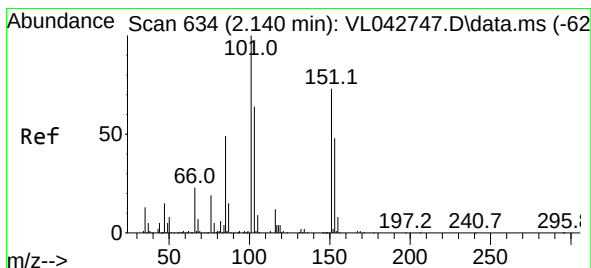
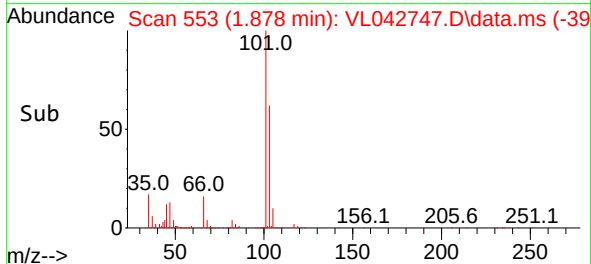
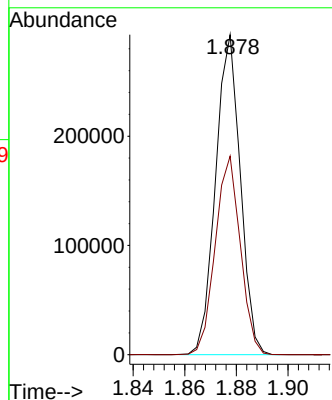
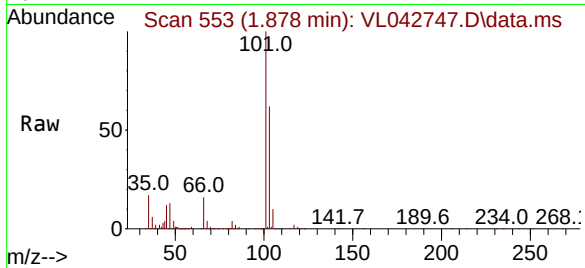




#11
 Trichlorofluoromethane
 Concen: 8.992 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

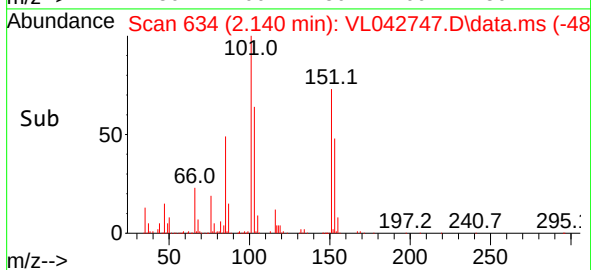
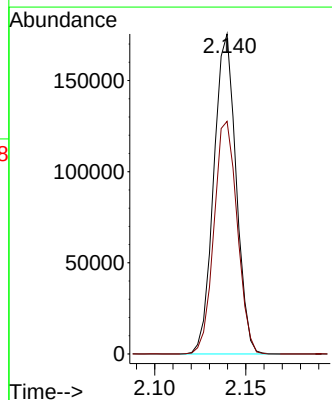
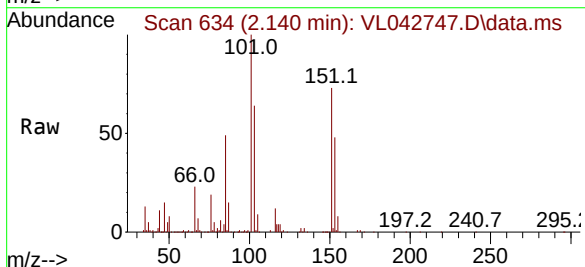
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

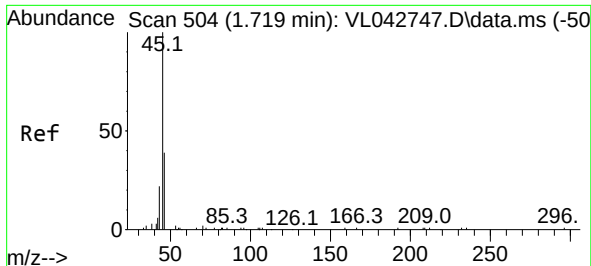
Tgt Ion:101 Resp: 194964
 Ion Ratio Lower Upper
 101 100
 103 62.0 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.081 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion:101 Resp: 149612
 Ion Ratio Lower Upper
 101 100
 151 75.6 60.5 90.7

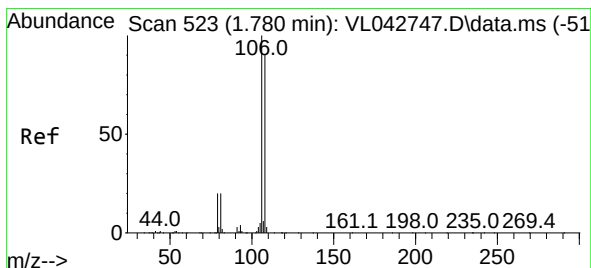
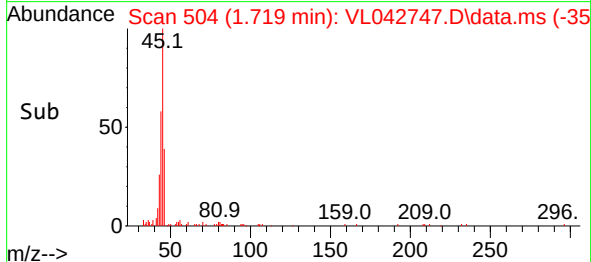
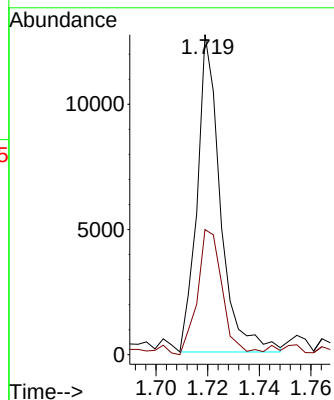
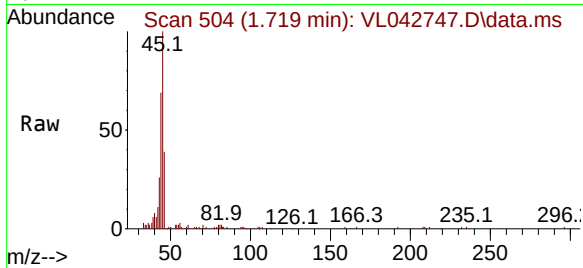




#13
Ethanol
Concen: 9.867 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

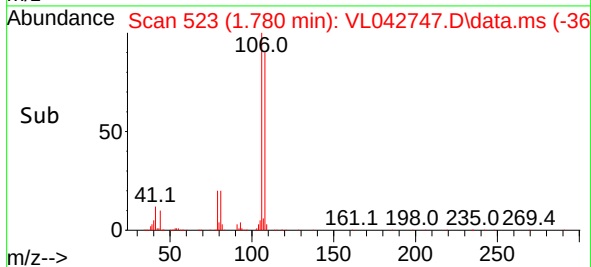
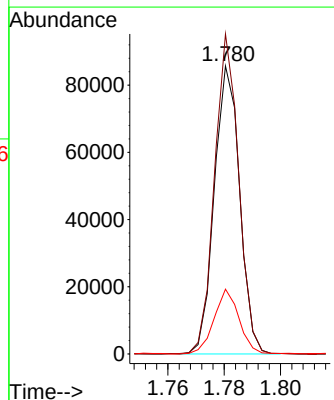
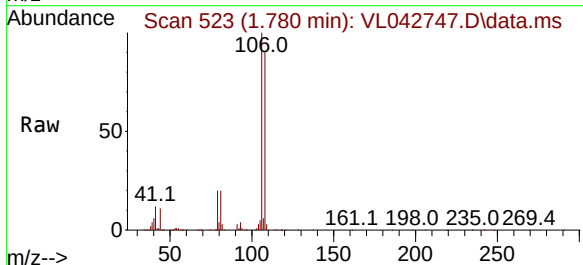
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

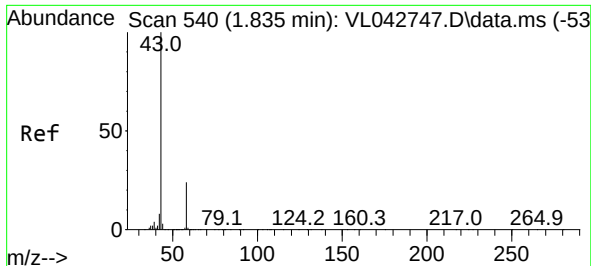
Tgt Ion: 45 Resp: 7949
Ion Ratio Lower Upper
45 100
46 46.5 17.8 71.4



#14
Bromoethene
Concen: 9.193 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 108 Resp: 53625
Ion Ratio Lower Upper
108 100
106 105.9 84.7 127.1
79 21.8 17.4 26.2

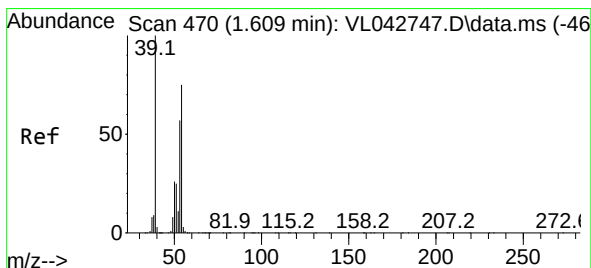
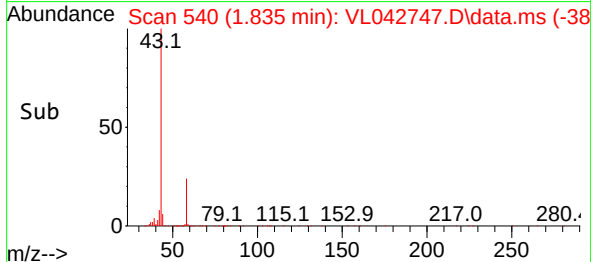
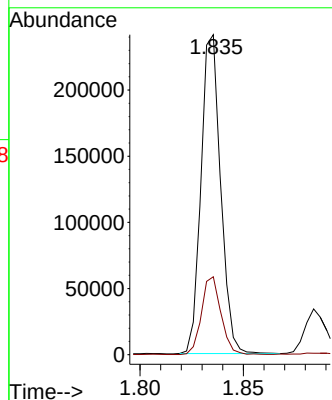
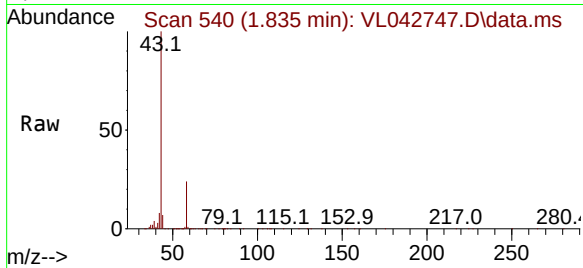




#15
Acetone
Concen: 7.225 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

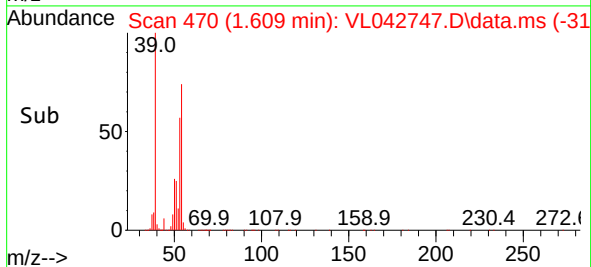
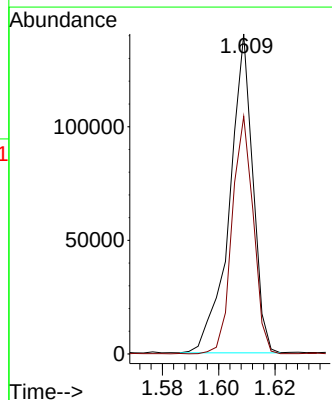
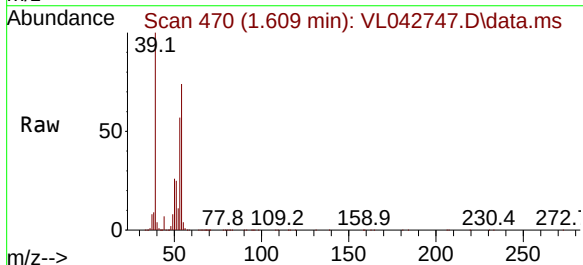
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

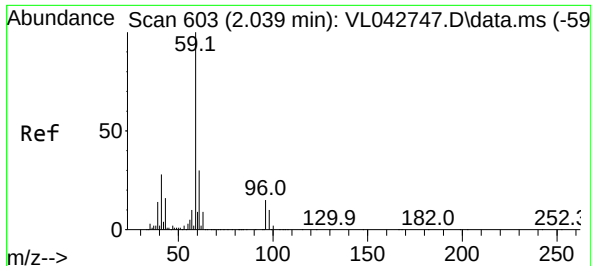
Tgt Ion: 43 Resp: 158714
Ion Ratio Lower Upper
43 100
58 24.8 19.8 29.8



#16
1,3-Butadiene
Concen: 8.642 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 39 Resp: 80968
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.351 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

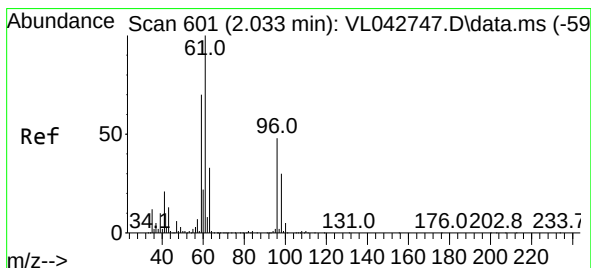
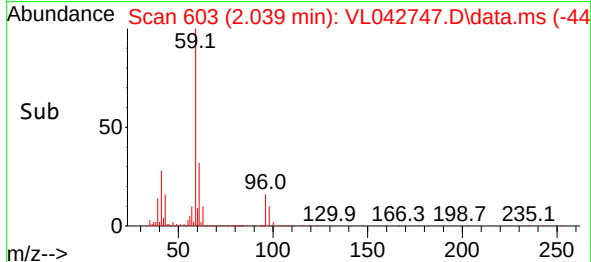
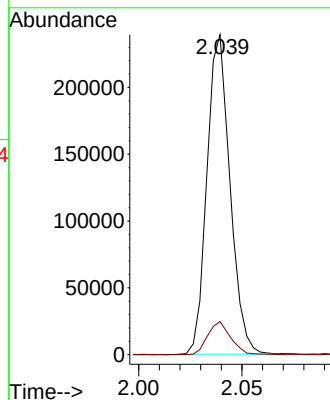
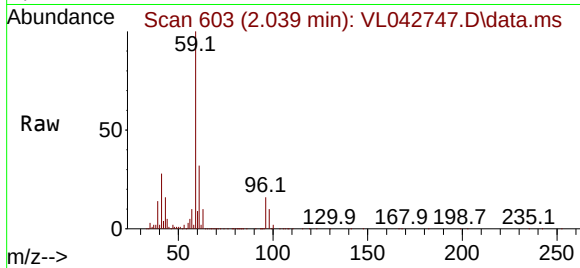
VSTDICCC010

Tgt Ion: 59 Resp: 185262

Ion Ratio Lower Upper

59 100

57 10.4 8.3 12.5



#18

1,1-Dichloroethene

Concen: 8.627 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

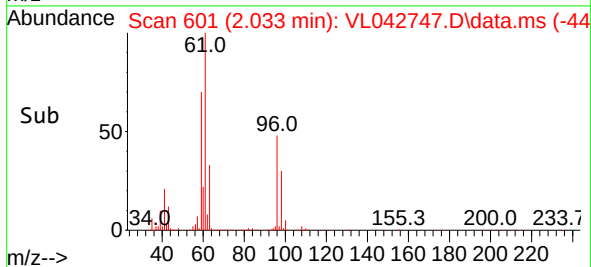
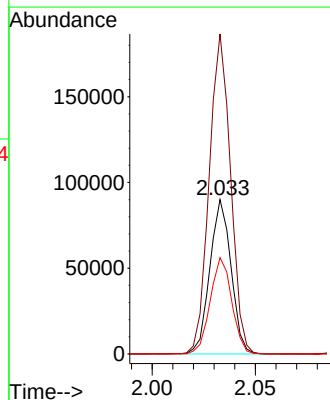
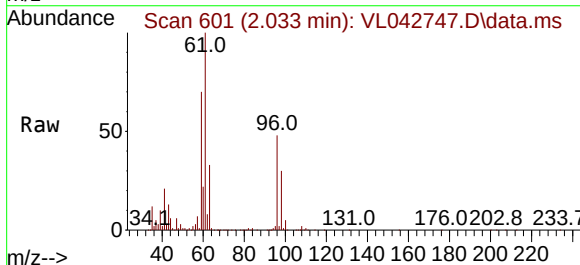
Tgt Ion: 96 Resp: 64224

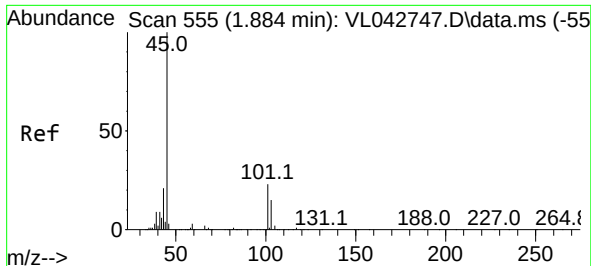
Ion Ratio Lower Upper

96 100

61 207.2 165.8 248.6

98 62.4 49.9 74.9

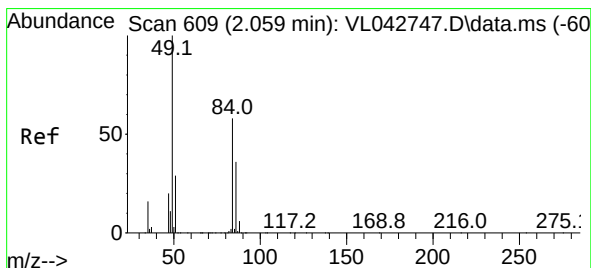
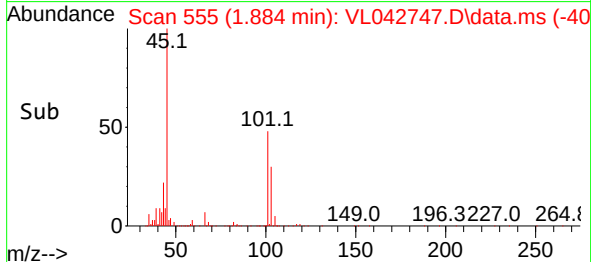
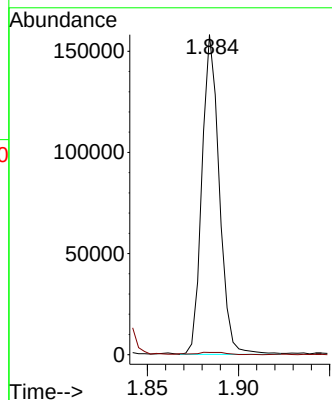
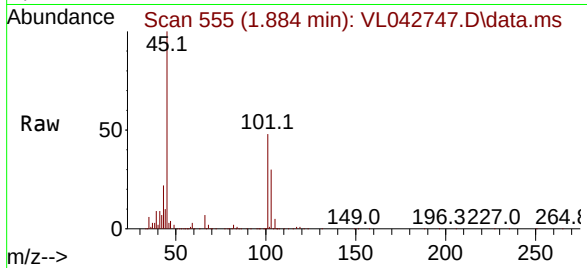




#19
Isopropyl Alcohol
Concen: 8.987 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

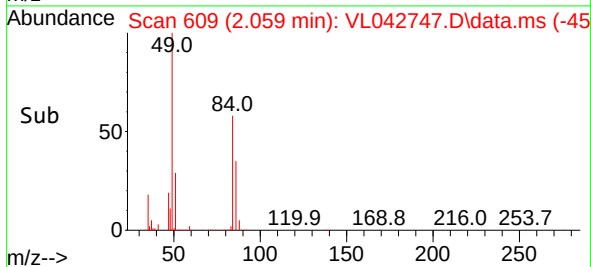
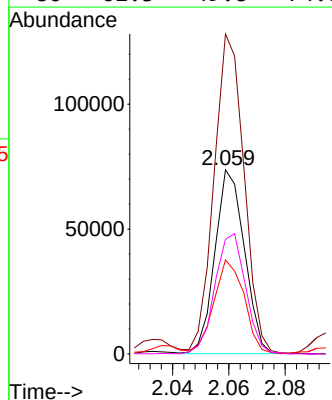
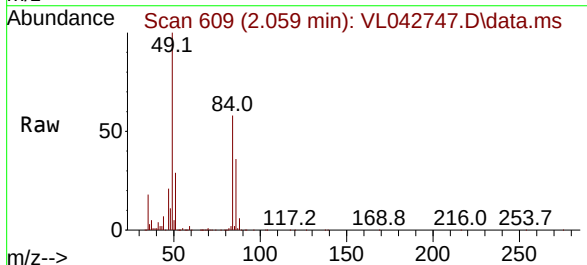
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

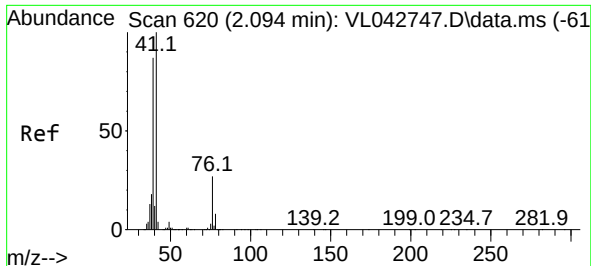
Tgt Ion: 45 Resp: 104903
Ion Ratio Lower Upper
45 100
58 37.5 30.0 45.0



#20
Methylene Chloride
Concen: 7.740 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 53581
Ion Ratio Lower Upper
84 100
49 173.3 138.6 208.0
51 50.8 40.6 61.0
86 62.3 49.8 74.8

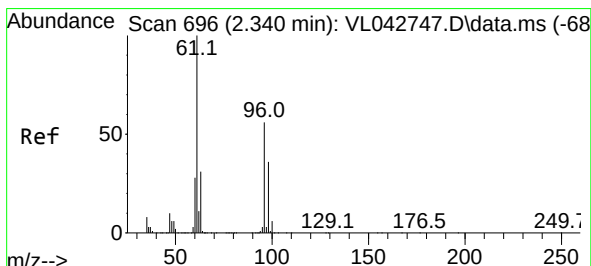
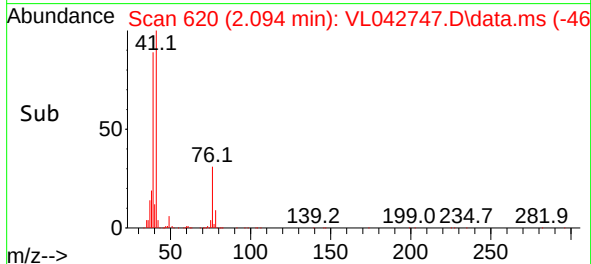
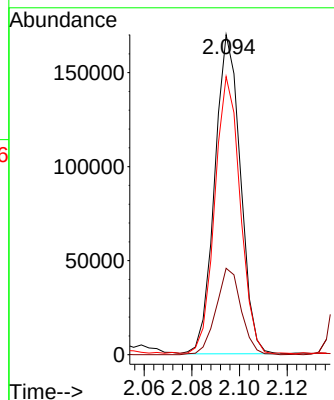
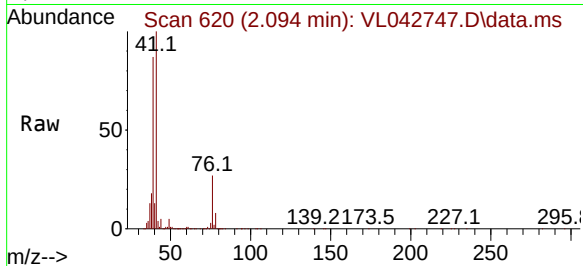




#21
 Allyl Chloride
 Concen: 9.382 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

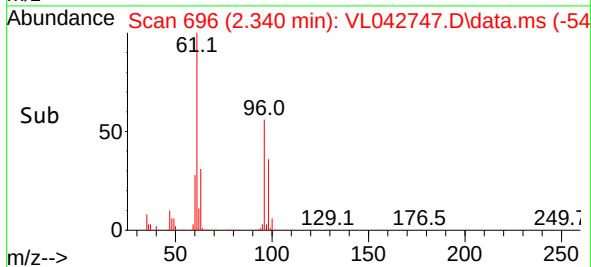
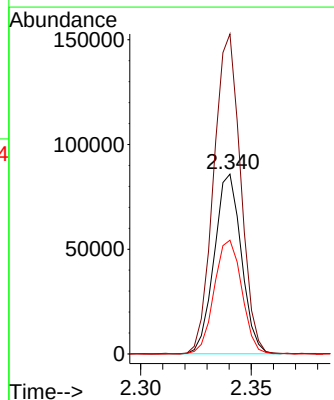
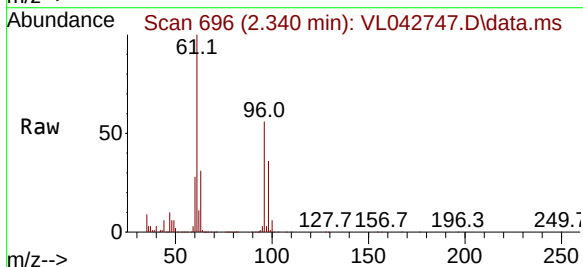
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

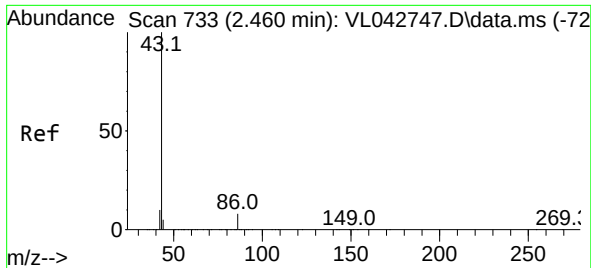
Tgt Ion: 41 Resp: 127021
 Ion Ratio Lower Upper
 41 100
 76 26.4 21.1 31.7
 39 85.4 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.148 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 96 Resp: 73152
 Ion Ratio Lower Upper
 96 100
 61 177.9 142.3 213.5
 98 63.3 50.6 76.0

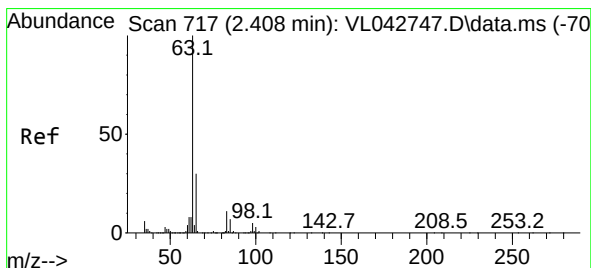
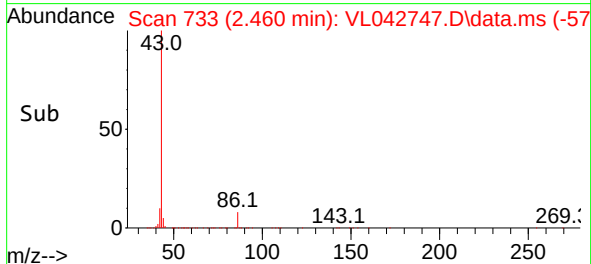
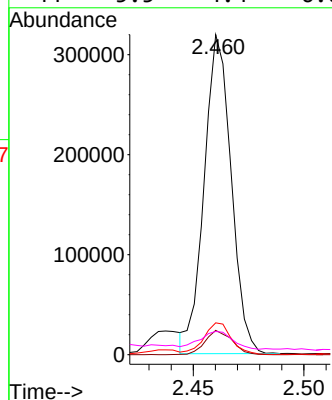
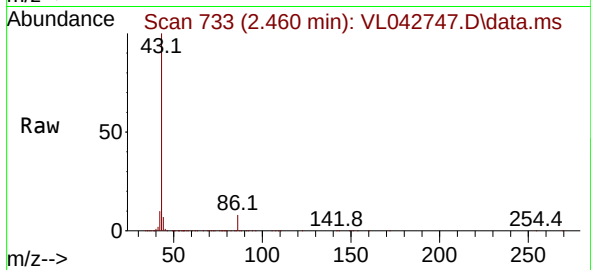




#23
 Vinyl Acetate
 Concen: 10.181 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

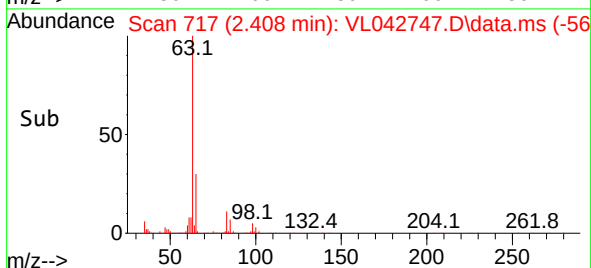
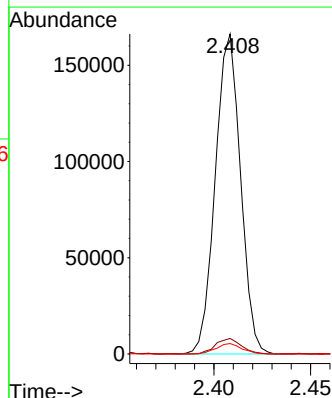
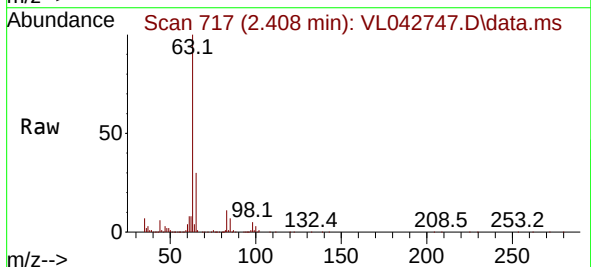
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

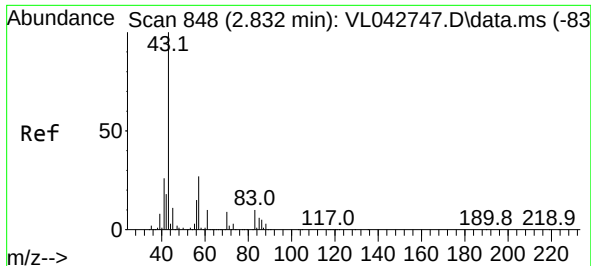
Tgt	Ion: 43	Resp: 271125	
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	9.8	7.8	11.8
44	5.5	4.4	6.6



#24
 1,1-Dichloroethane
 Concen: 9.141 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 63	Resp: 150257
Ion Ratio	Lower Upper
63 100	
98 4.9	2.5 7.4
100 3.2	1.6 4.8

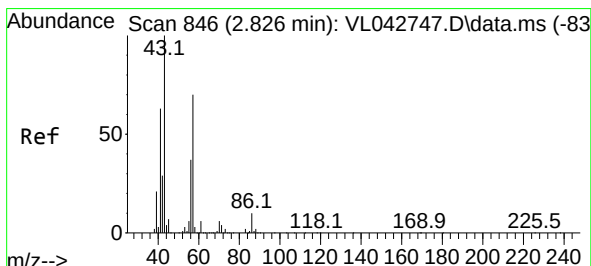
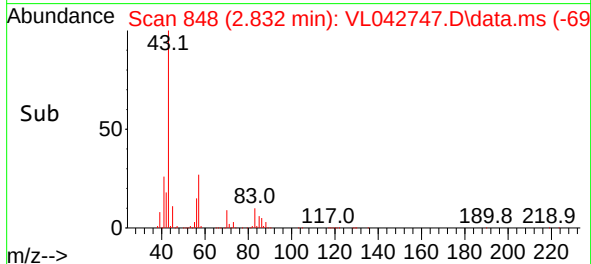
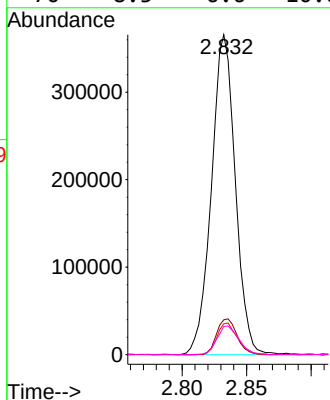
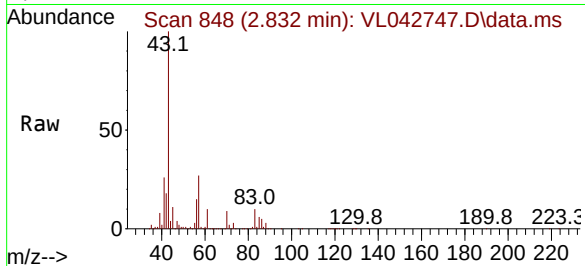




#25
Ethyl Acetate
Concen: 9.666 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

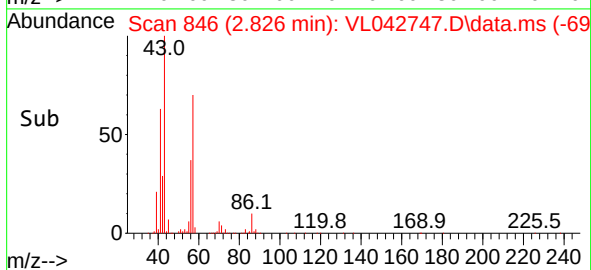
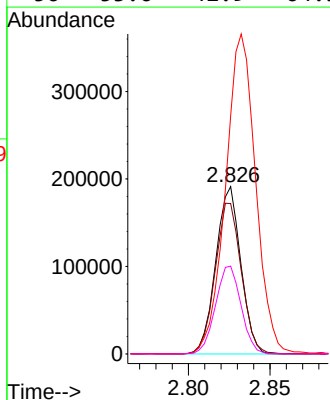
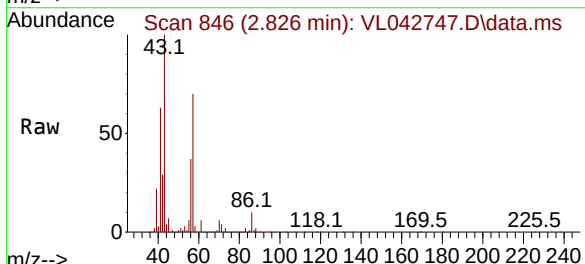
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

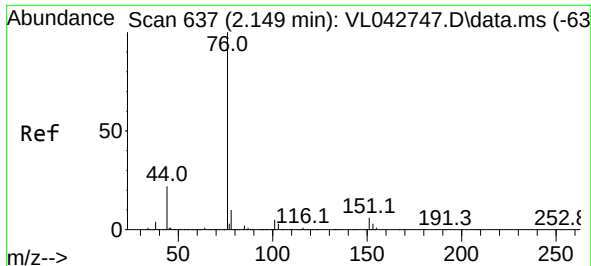
Tgt Ion: 43	Resp: 469997
Ion Ratio	Lower Upper
43 100	
45 9.7	7.8 11.6
61 8.4	6.7 10.1
70 8.3	6.6 10.0



#26
Hexane
Concen: 9.555 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57	Resp: 203800
Ion Ratio	Lower Upper
57 100	
41 94.3	75.4 113.2
43 231.3	185.0 277.6
56 53.6	42.9 64.3

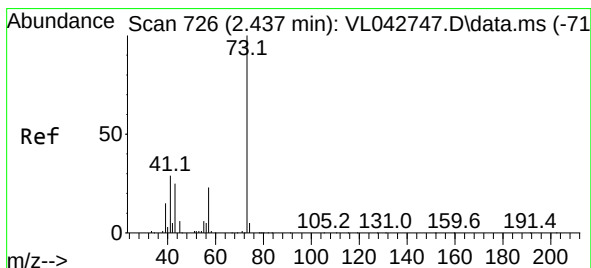
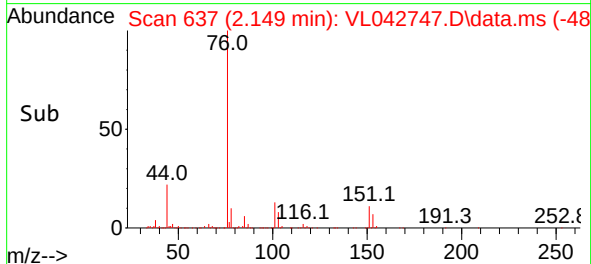
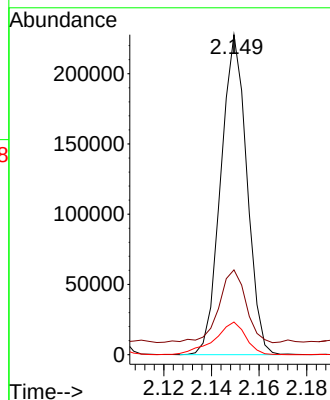
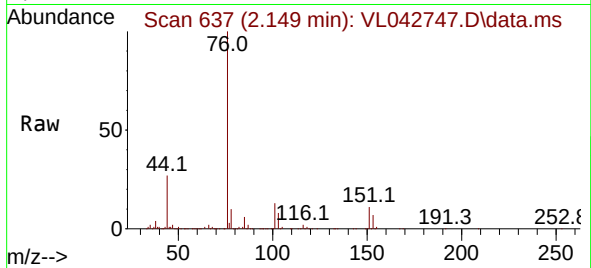




#27
Carbon Disulfide
Concen: 9.480 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

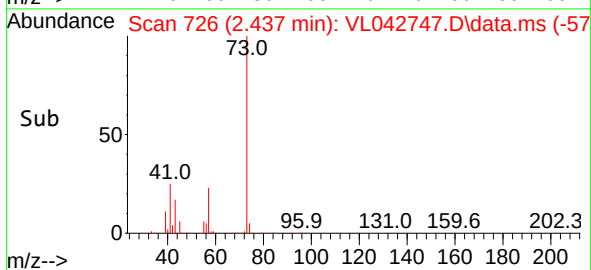
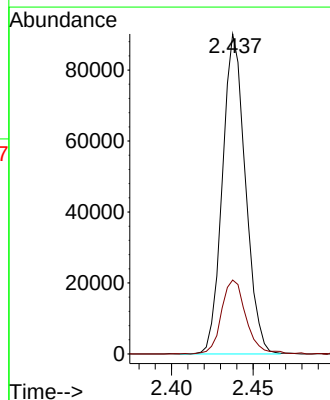
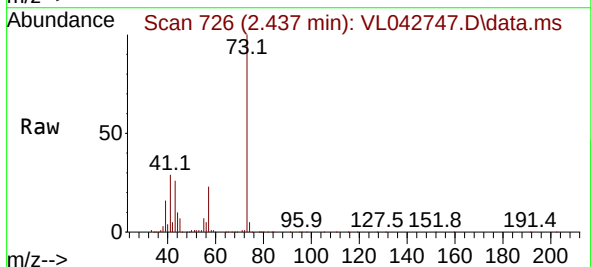
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

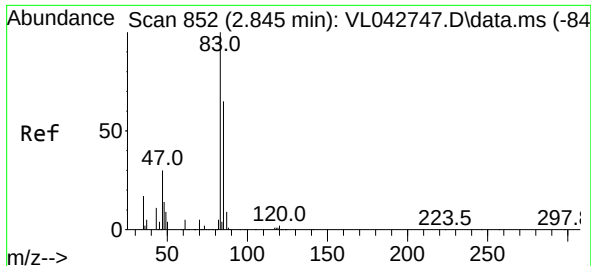
Tgt Ion: 76 Resp: 173105
Ion Ratio Lower Upper
76 100
44 24.1 19.3 28.9
78 12.4 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 8.770 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 73 Resp: 88372
Ion Ratio Lower Upper
73 100
57 24.8 19.8 29.8





#29

Chloroform

Concen: 9.244 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

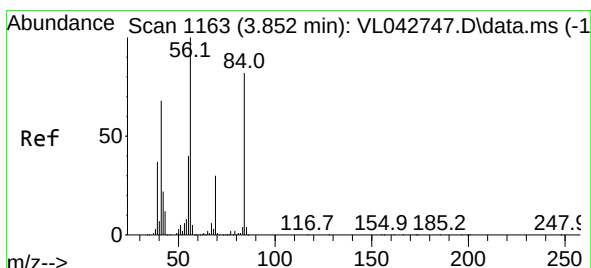
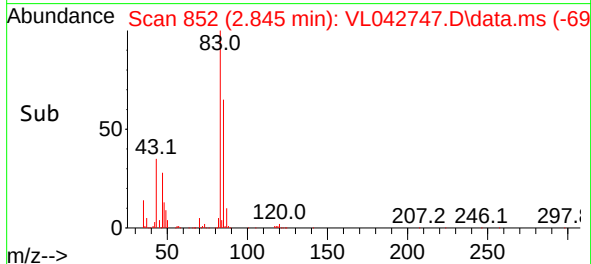
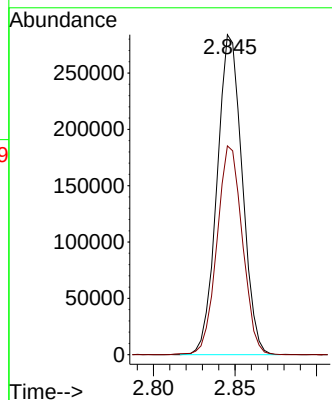
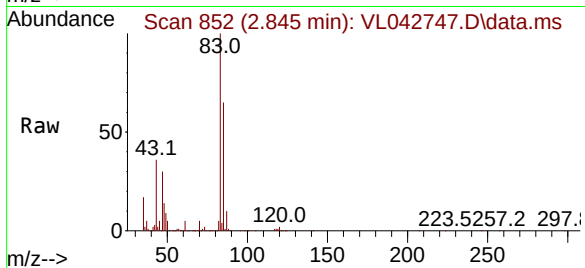
VSTDICCC010

Tgt Ion: 83 Resp: 304670

Ion Ratio Lower Upper

83 100

85 65.2 52.2 78.2



#30

Cyclohexane

Concen: 9.892 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

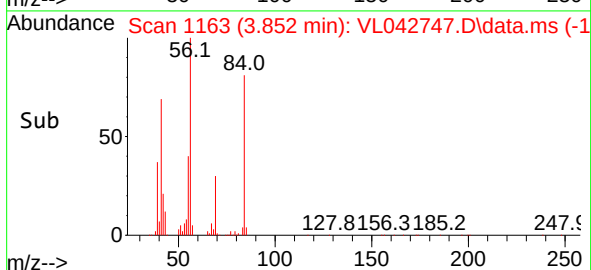
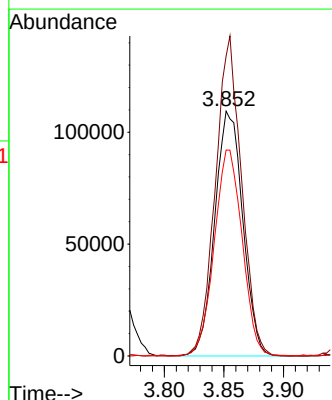
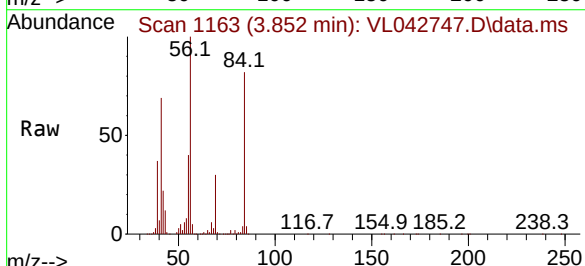
Tgt Ion: 84 Resp: 178948

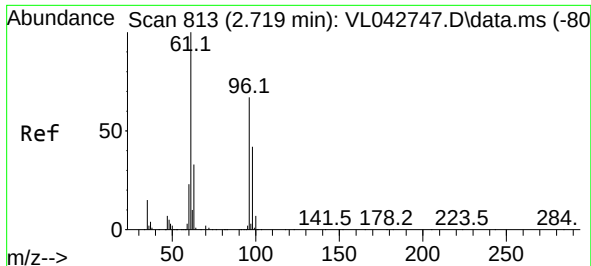
Ion Ratio Lower Upper

84 100

56 121.9 97.5 146.3

41 84.0 67.2 100.8

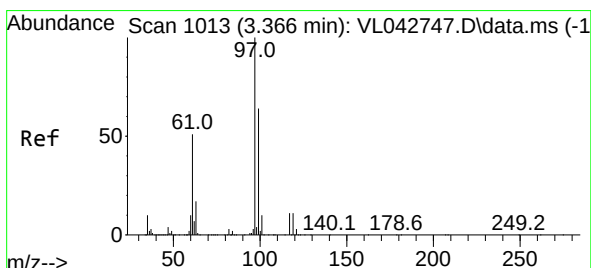
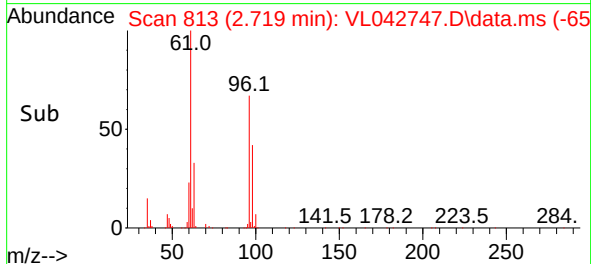
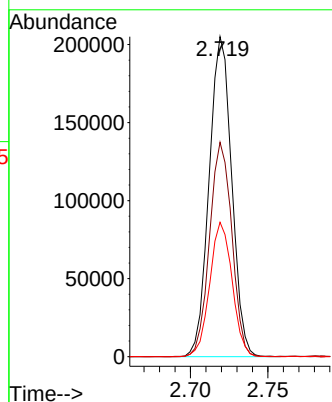
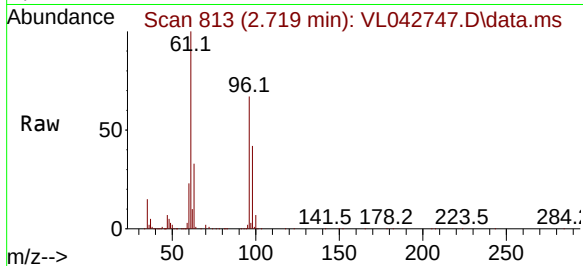




#31
 cis-1,2-Dichloroethene
 Concen: 9.479 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

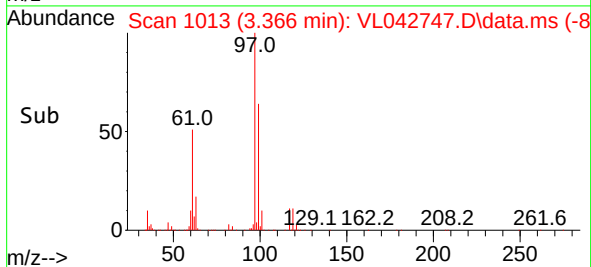
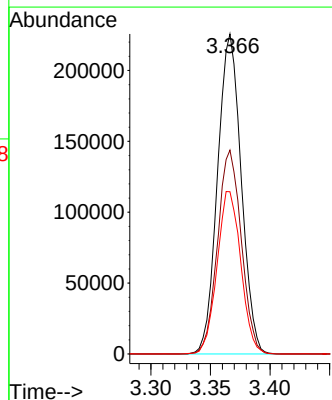
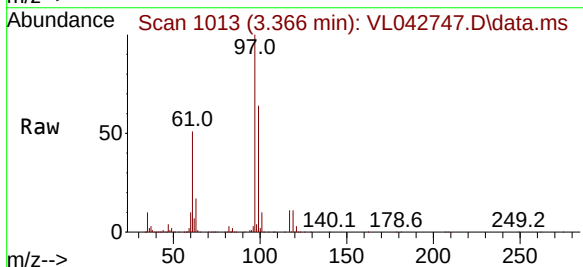
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

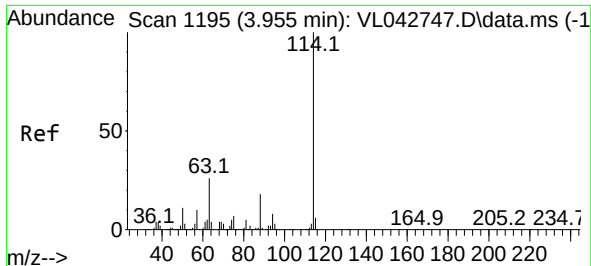
Tgt Ion: 61 Resp: 207751
 Ion Ratio Lower Upper
 61 100
 96 66.9 53.5 80.3
 98 42.0 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.069 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 97 Resp: 311368
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 51.1 40.9 61.3

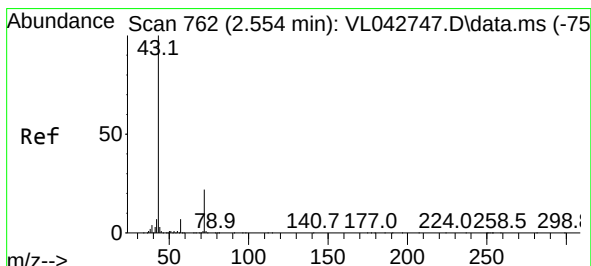
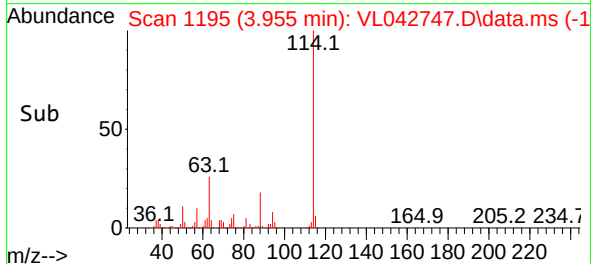
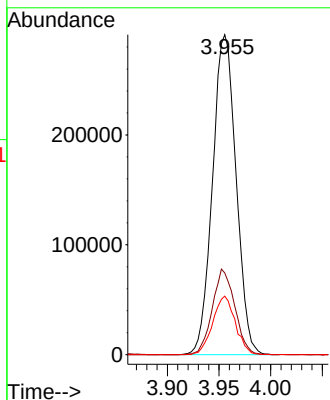
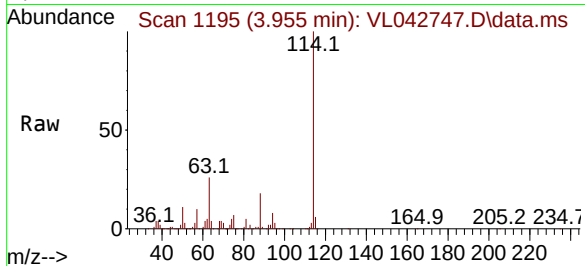




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

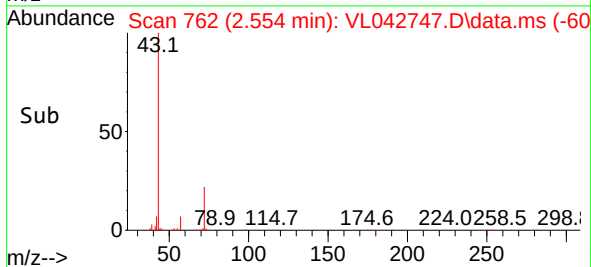
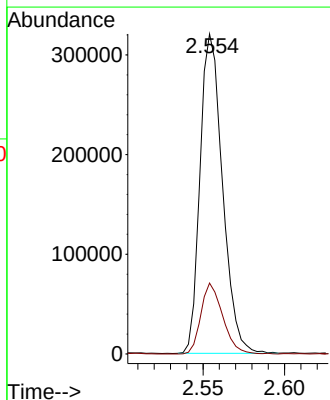
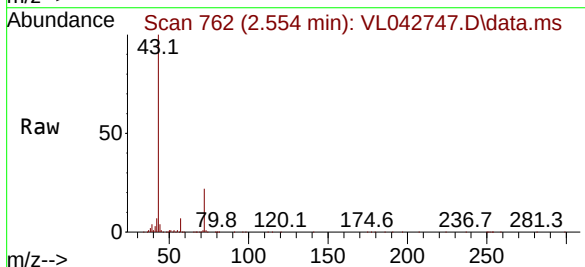
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

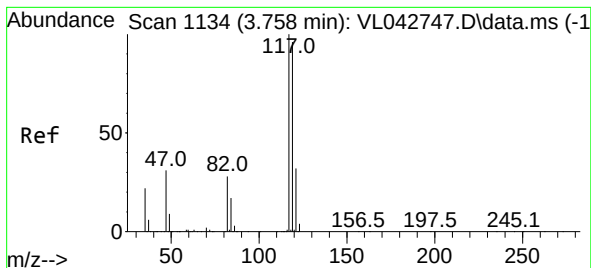
Tgt Ion:114 Resp: 462763
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.5 30.7
 88 17.5 14.0 21.0



#34
 2-Butanone
 Concen: 9.361 ppbv
 RT: 2.554 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 306858
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 9.436 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

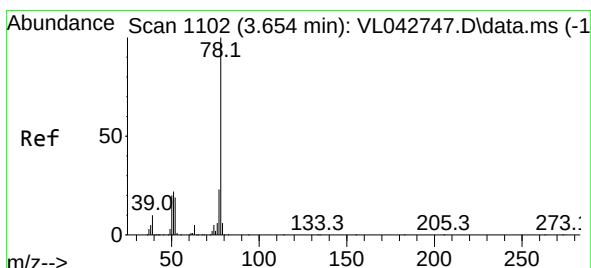
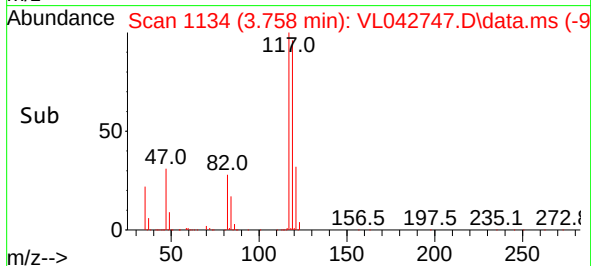
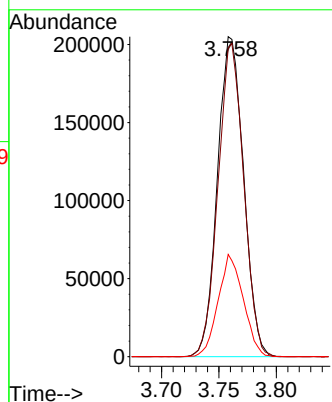
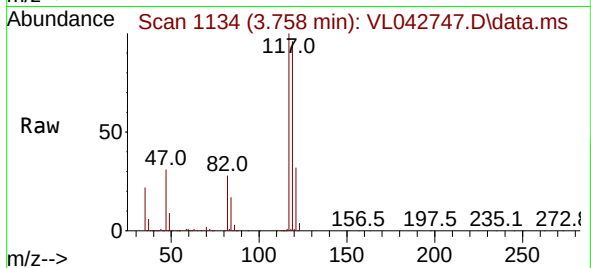
Tgt Ion:117 Resp: 324501

Ion Ratio Lower Upper

117 100

119 96.4 77.1 115.7

121 31.9 25.5 38.3



#36

Benzene

Concen: 9.459 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

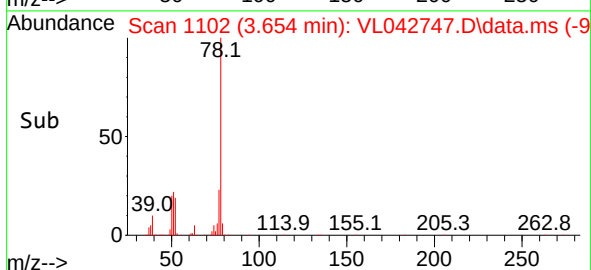
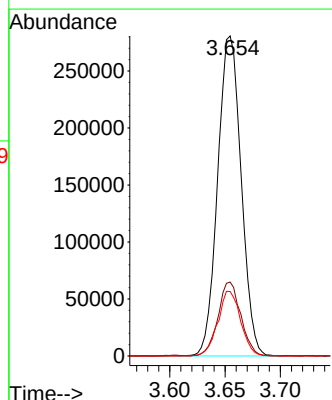
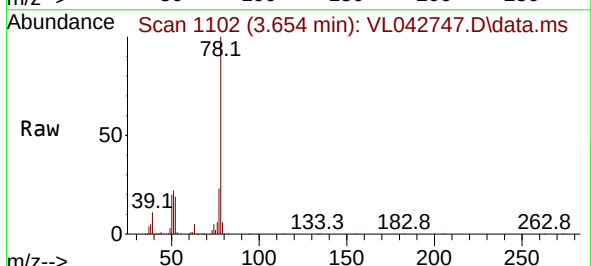
Tgt Ion: 78 Resp: 414863

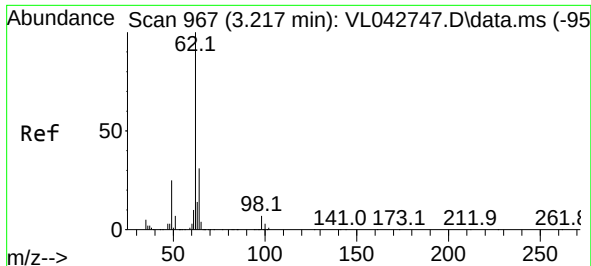
Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7

50 20.2 16.2 24.2





#37

1,2-Dichloroethane

Concen: 9.403 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

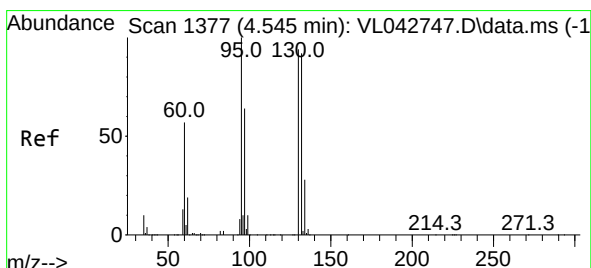
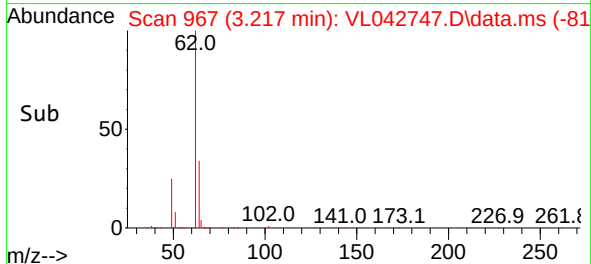
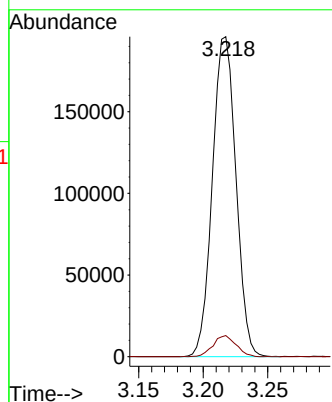
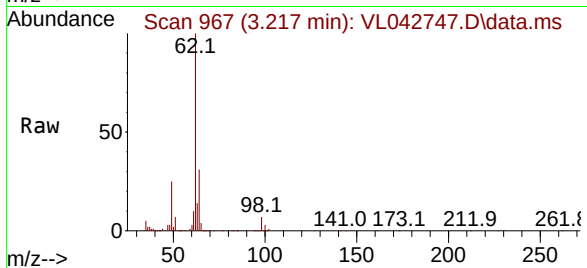
VSTDICCC010

Tgt Ion: 62 Resp: 248414

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 8.926 ppbv

RT: 4.545 min Scan# 1377

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:130 Resp: 188750

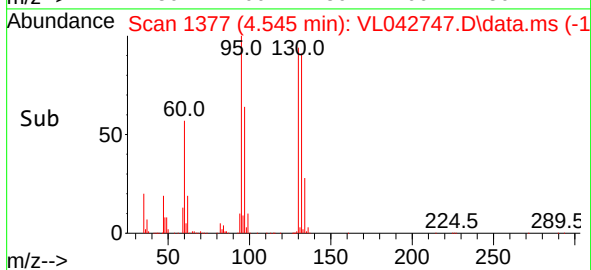
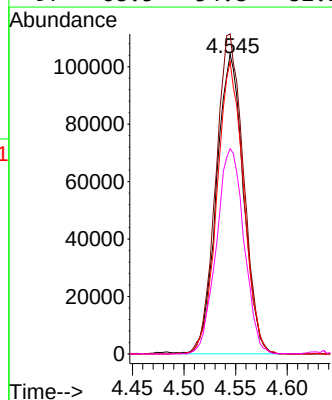
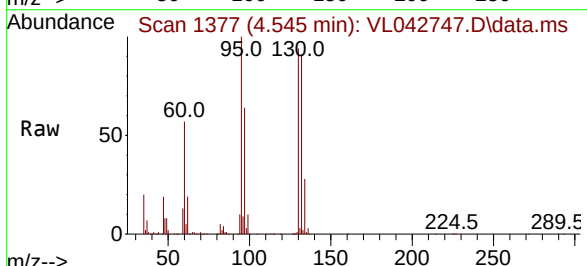
Ion Ratio Lower Upper

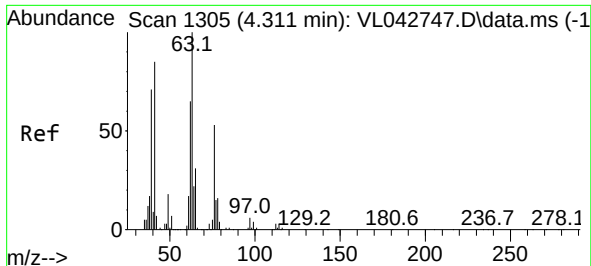
130 100

95 106.8 85.4 128.2

132 97.7 78.2 117.2

97 68.5 54.8 82.2





#39

1,2-Dichloropropane

Concen: 9.251 ppbv

RT: 4.311 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

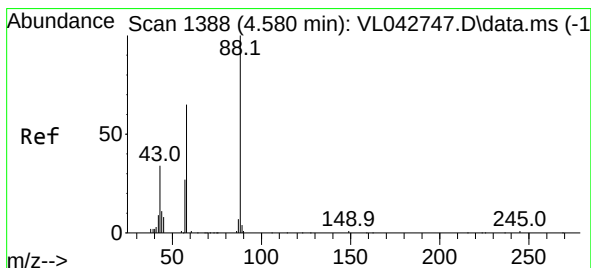
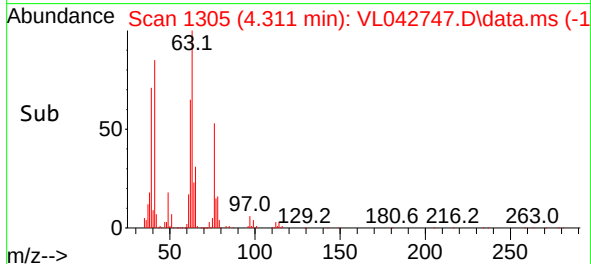
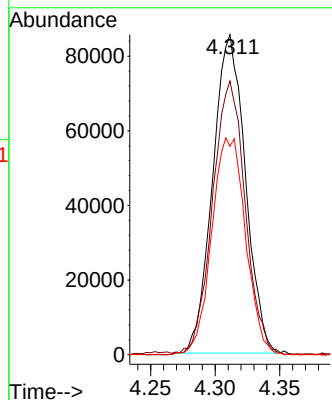
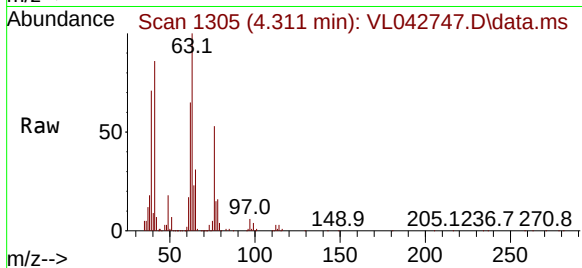
Tgt Ion: 63 Resp: 149771

Ion Ratio Lower Upper

63 100

41 85.3 68.2 102.4

62 65.0 52.0 78.0



#40

1,4-Dioxane

Concen: 8.569 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion: 88 Resp: 65413

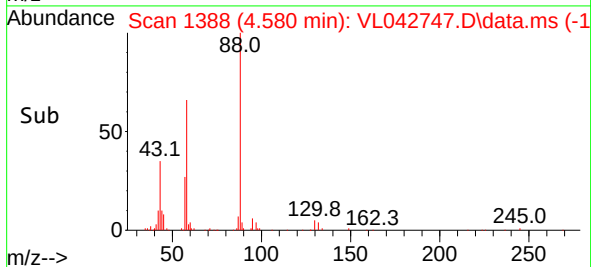
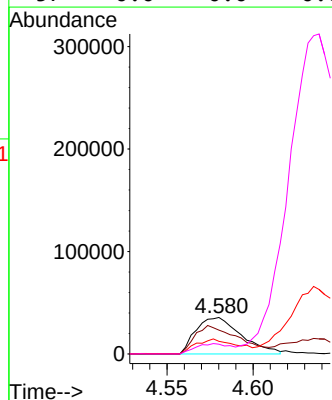
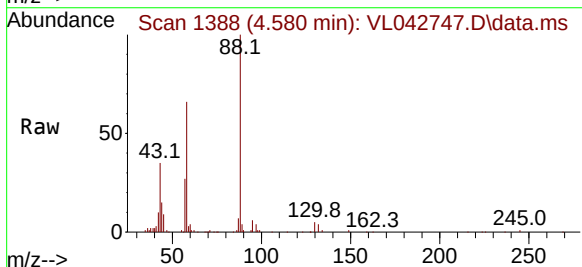
Ion Ratio Lower Upper

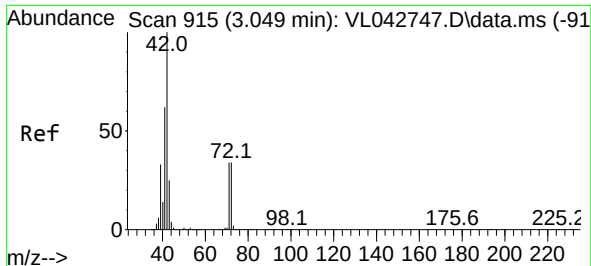
88 100

58 73.5 58.8 88.2

43 36.1 28.9 43.3

57 0.0 0.0 0.0

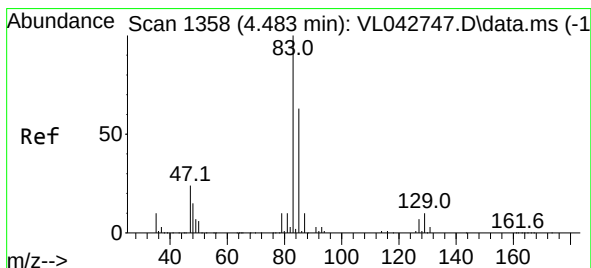
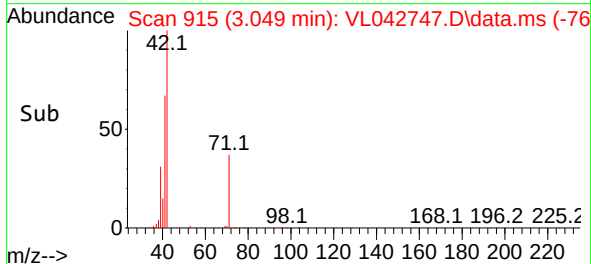
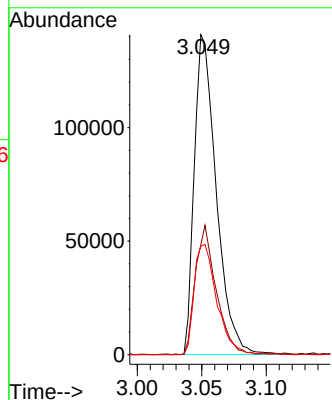
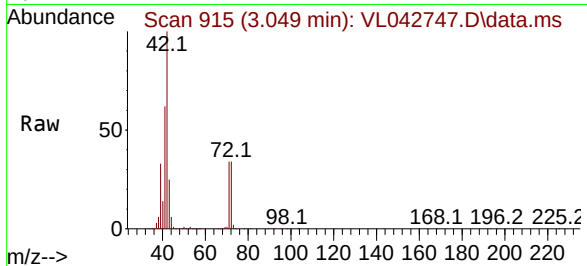




#41
Tetrahydrofuran
Concen: 10.160 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

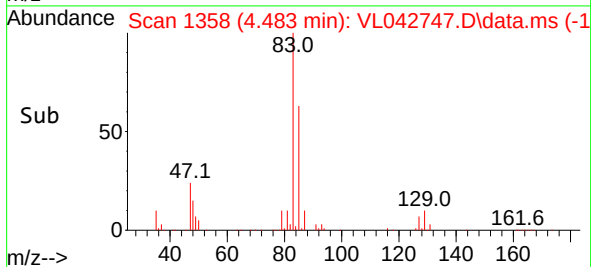
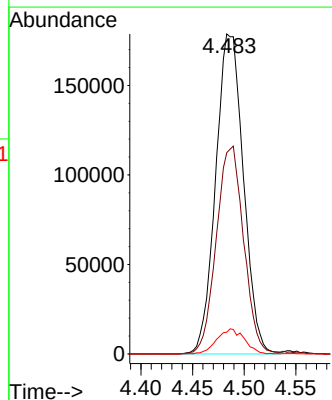
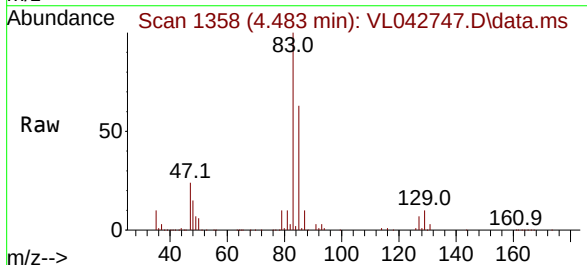
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

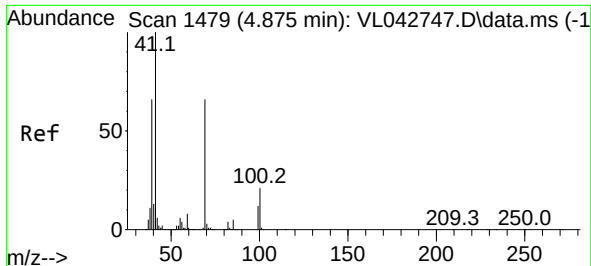
Tgt Ion: 42 Resp: 167323
Ion Ratio Lower Upper
42 100
72 38.6 30.9 46.3
71 35.8 28.6 43.0



#42
Bromodichloromethane
Concen: 9.713 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 83 Resp: 334531
Ion Ratio Lower Upper
83 100
85 62.8 50.2 75.4
127 6.8 5.4 8.2

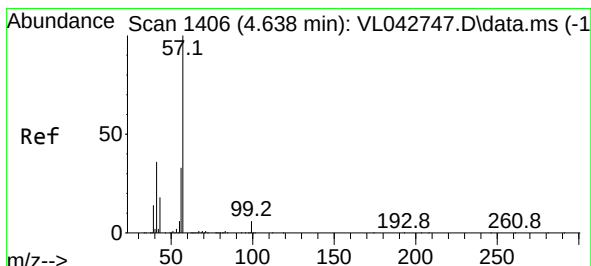
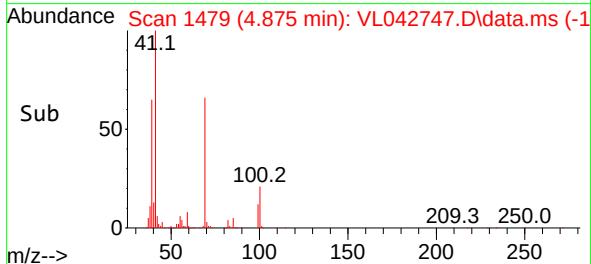
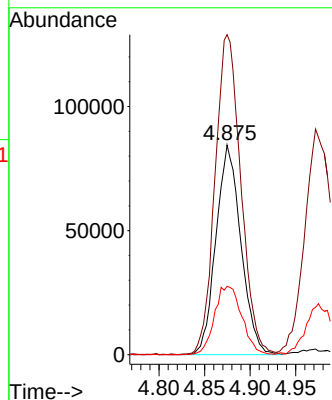
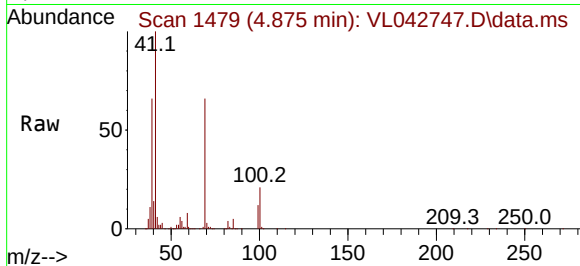




#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

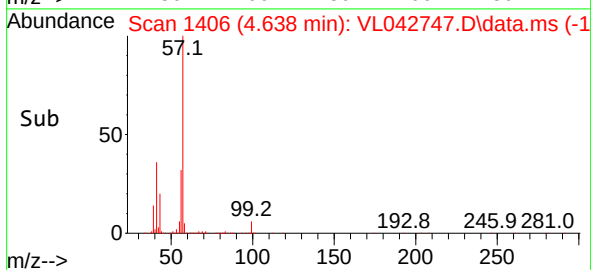
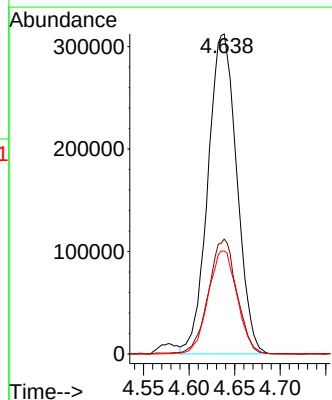
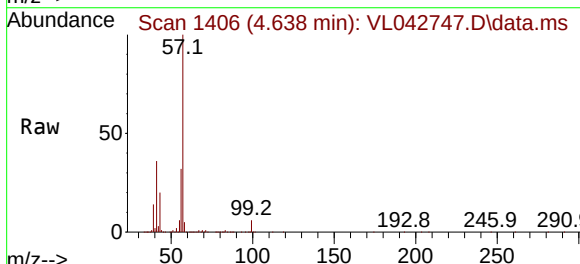
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

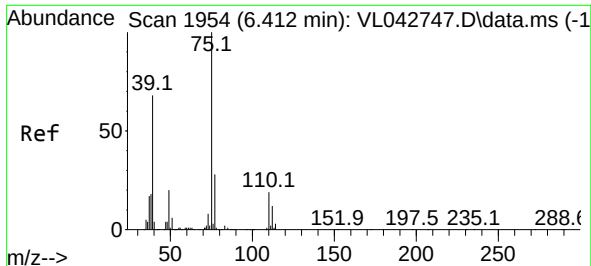
Tgt Ion: 69 Resp: 161053
Ion Ratio Lower Upper
69 100
41 157.1 125.7 188.5
100 35.7 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 9.623 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 687885
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.2 25.8 38.6

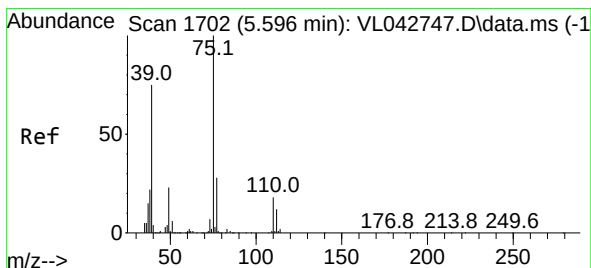
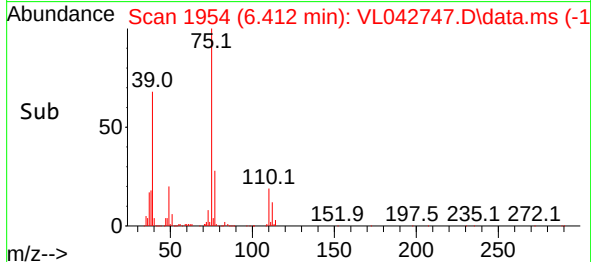
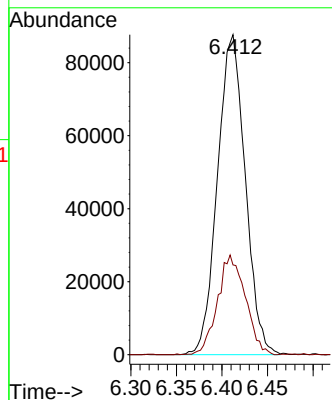
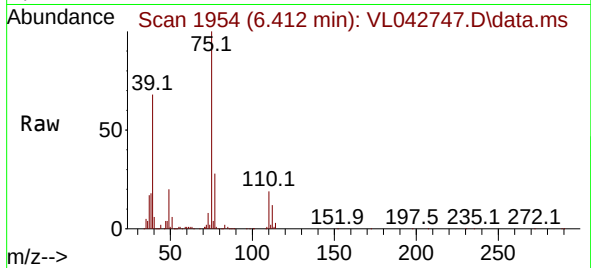




#45
 t-1,3-Dichloropropene
 Concen: 10.633 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

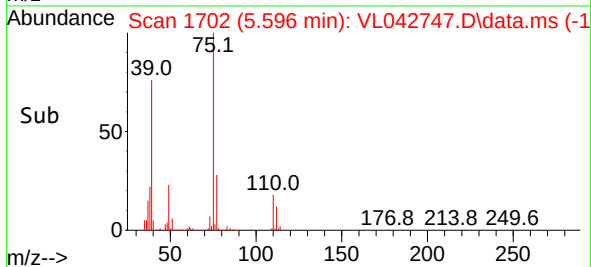
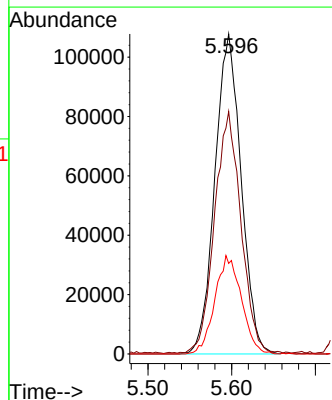
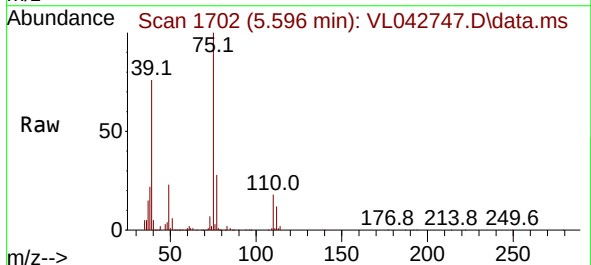
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

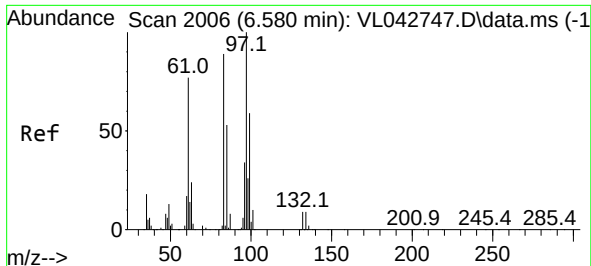
Tgt Ion: 75 Resp: 185965
 Ion Ratio Lower Upper
 75 100
 77 28.0 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 10.587 ppbv
 RT: 5.596 min Scan# 1702
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 234594
 Ion Ratio Lower Upper
 75 100
 39 75.2 60.2 90.2
 77 28.3 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 9.297 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 160431

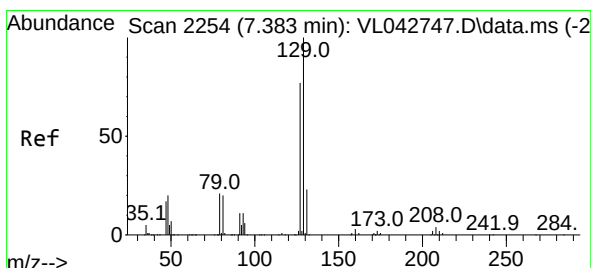
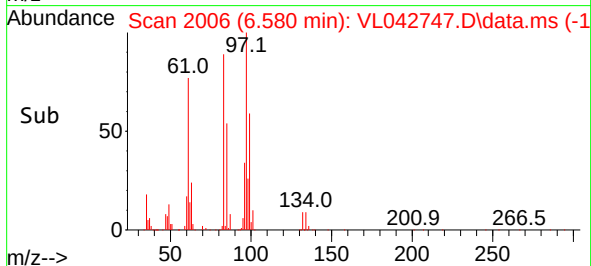
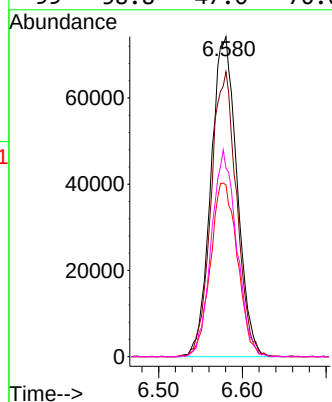
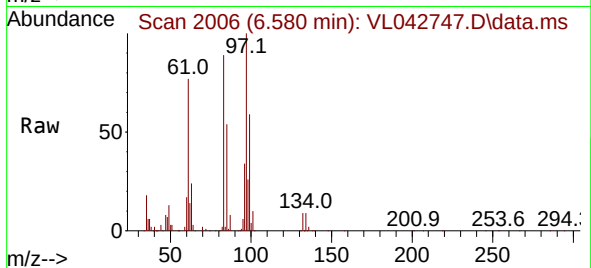
Ion Ratio Lower Upper

97 100

83 88.9 71.1 106.7

85 53.7 43.0 64.4

99 58.8 47.0 70.6



#48

Dibromochloromethane

Concen: 10.141 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042747.D

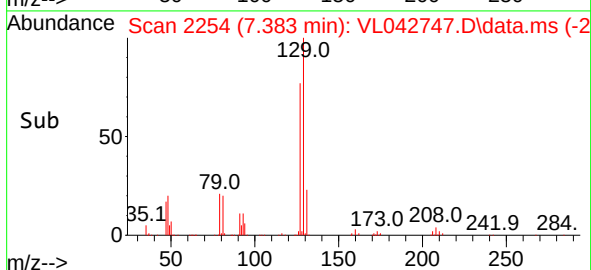
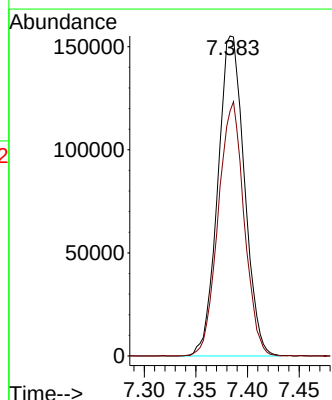
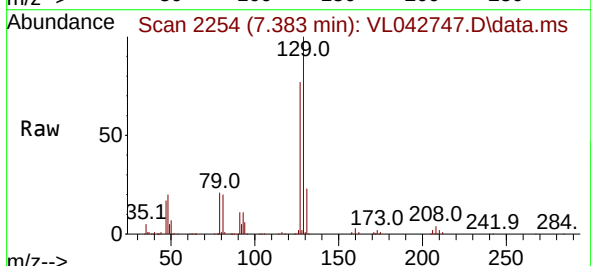
Acq: 23 Jul 2025 08:58

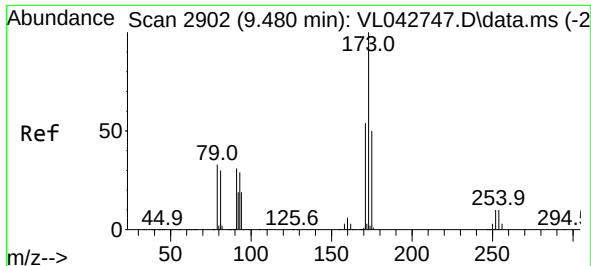
Tgt Ion: 129 Resp: 277832

Ion Ratio Lower Upper

129 100

127 77.4 38.7 116.1

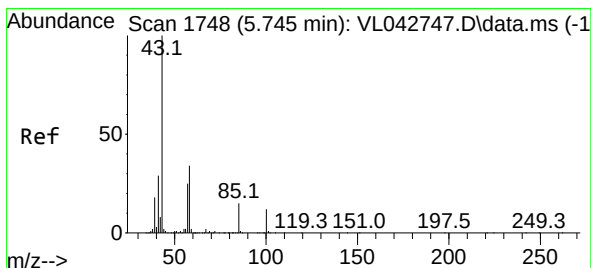
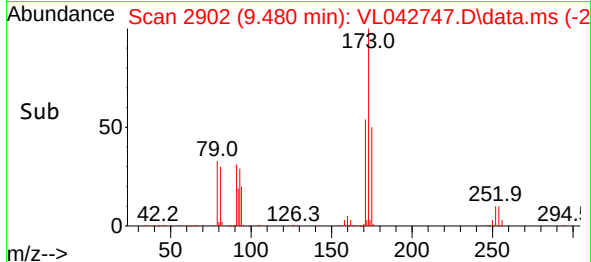
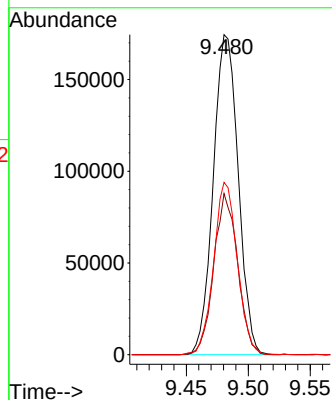
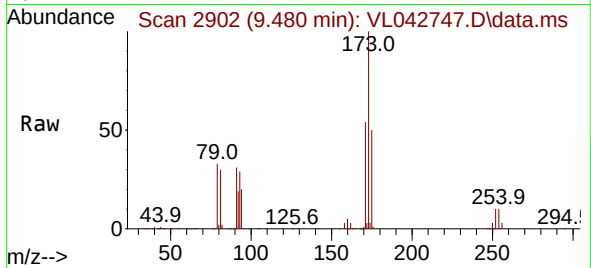




#49
Bromoform
Concen: 10.256 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

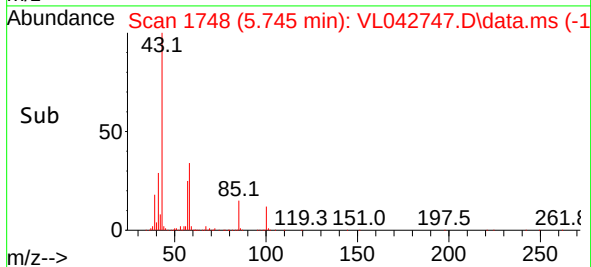
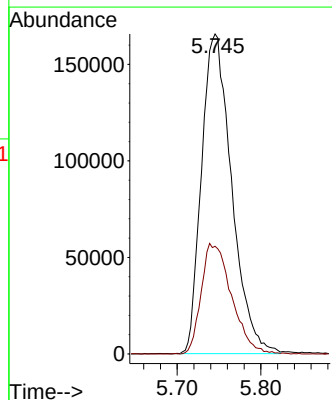
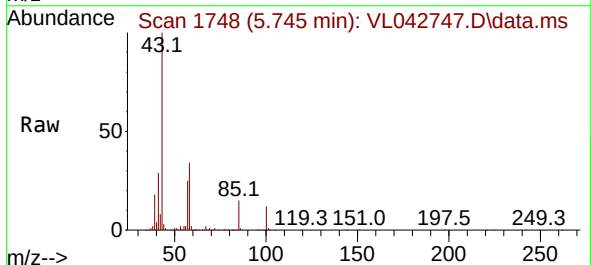
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

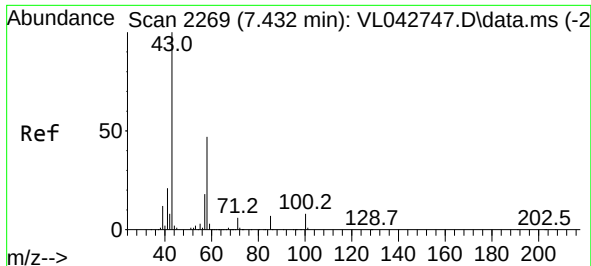
Tgt Ion:173 Resp: 244997
Ion Ratio Lower Upper
173 100
175 48.0 38.4 57.6
171 51.1 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 9.914 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 413966
Ion Ratio Lower Upper
43 100
58 34.8 27.8 41.8

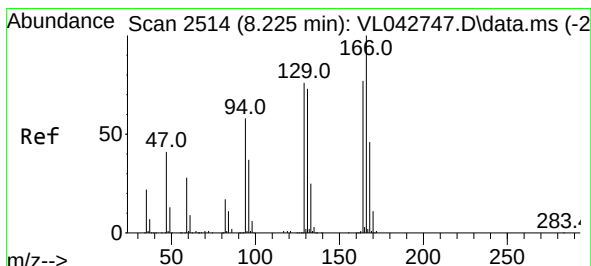
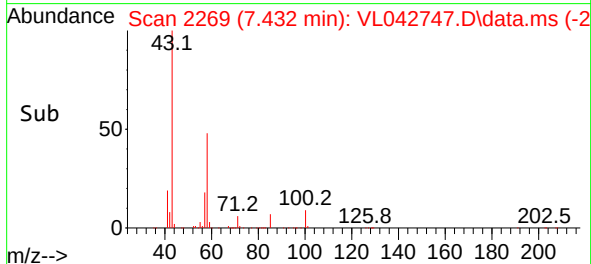
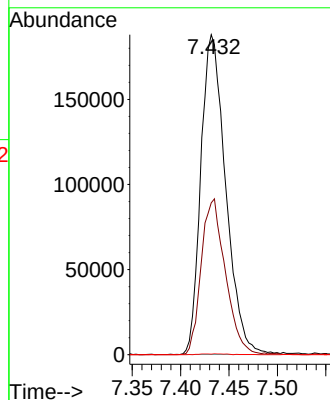
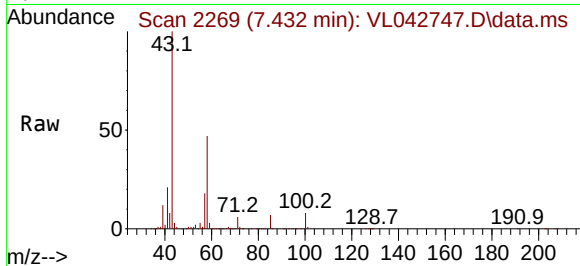




#51
2-Hexanone
Concen: 10.532 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

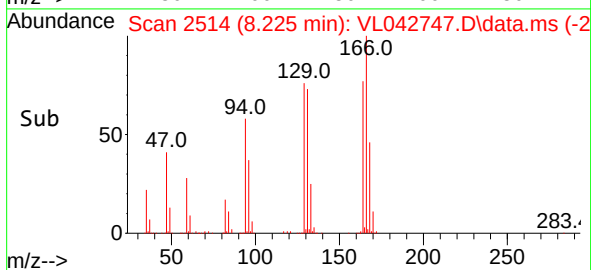
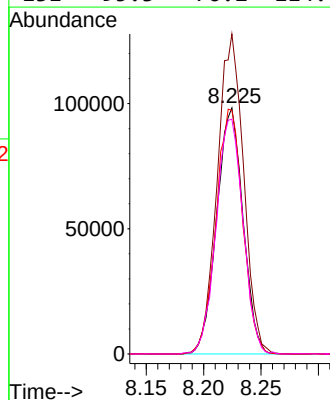
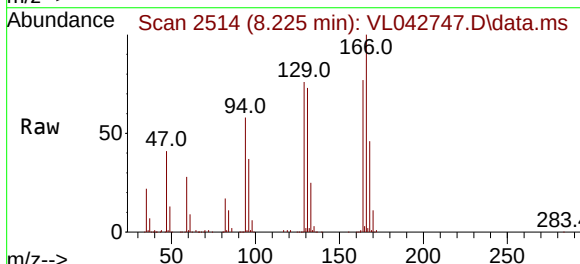
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

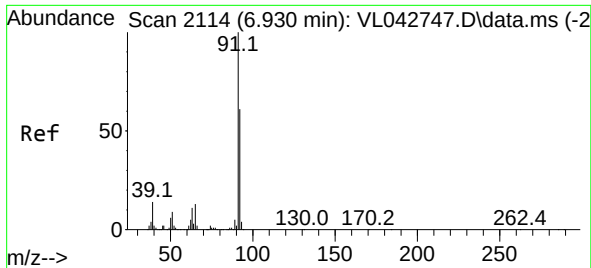
Tgt Ion: 43 Resp: 336048
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 8.609 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 164 Resp: 156930
Ion Ratio Lower Upper
164 100
166 130.0 104.0 156.0
129 99.0 79.2 118.8
131 95.3 76.2 114.4

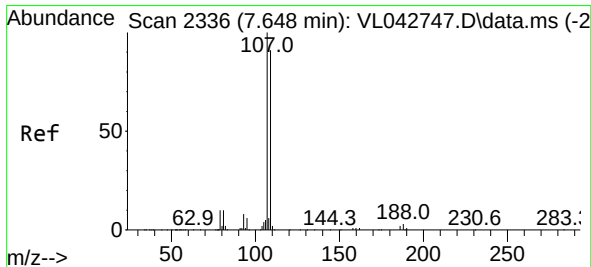
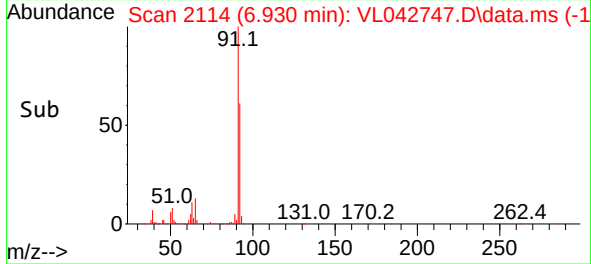
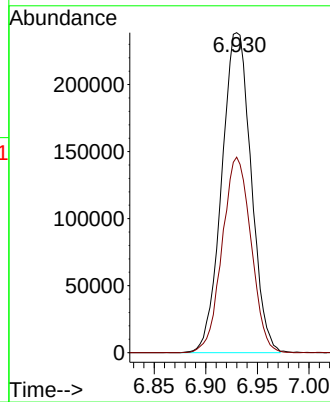
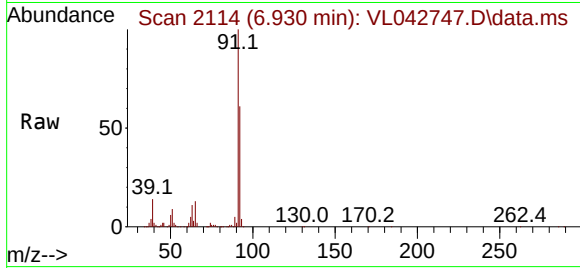




#53
Toluene
Concen: 10.042 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

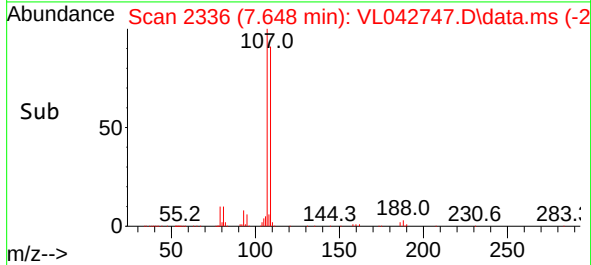
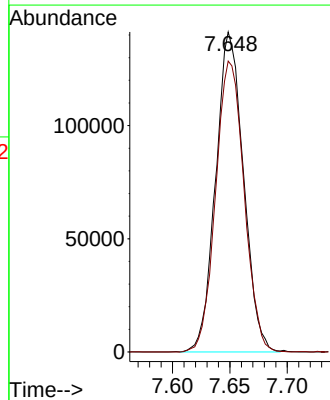
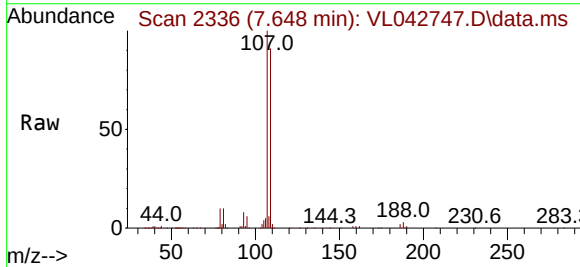
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

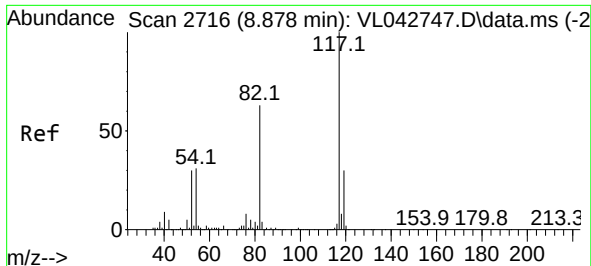
Tgt Ion: 91 Resp: 472953
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0



#54
1,2-Dibromoethane
Concen: 9.745 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 107 Resp: 238045
Ion Ratio Lower Upper
107 100
109 90.9 72.7 109.1

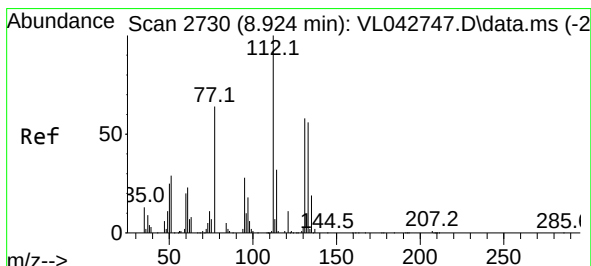
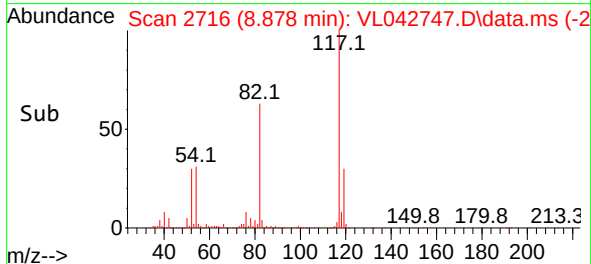
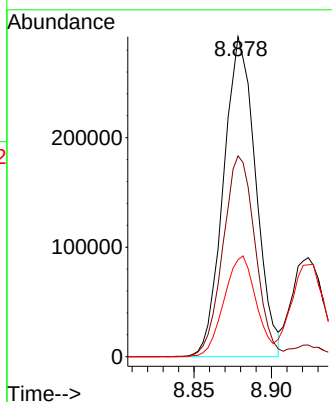
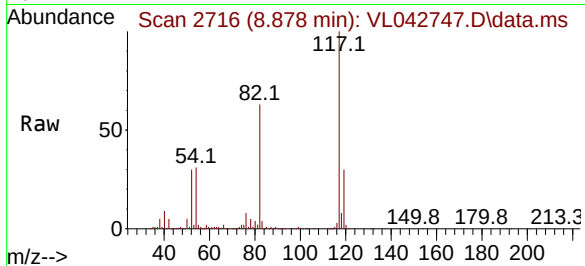




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

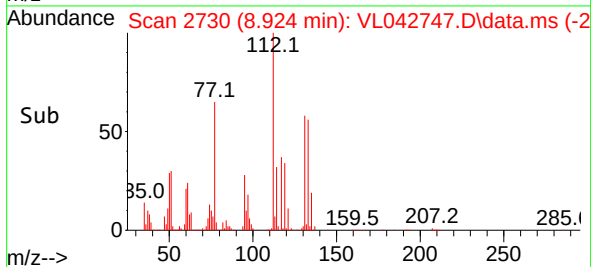
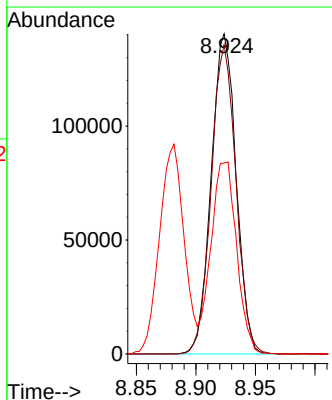
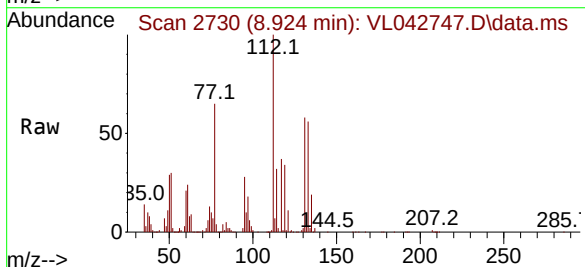
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

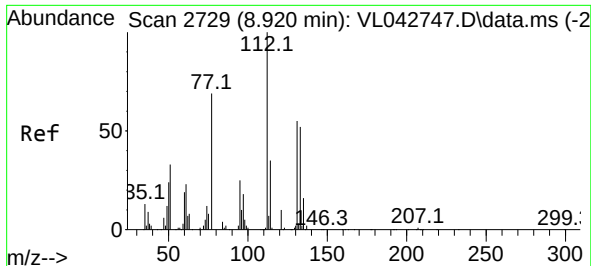
Tgt Ion:117 Resp: 422206
Ion Ratio Lower Upper
117 100
82 66.6 53.3 79.9
119 32.2 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 9.302 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:131 Resp: 204205
Ion Ratio Lower Upper
131 100
133 96.0 76.8 115.2
119 62.1 49.7 74.5

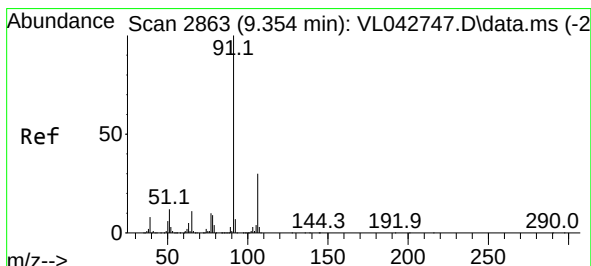
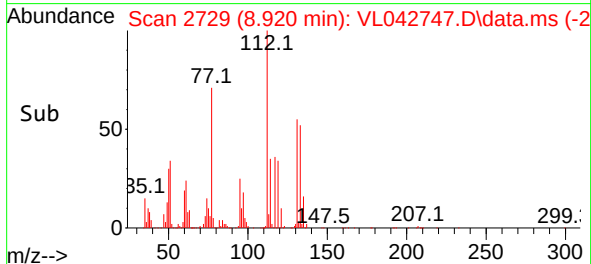
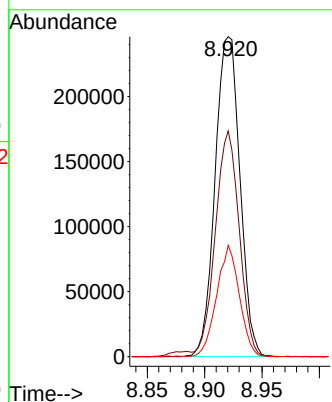
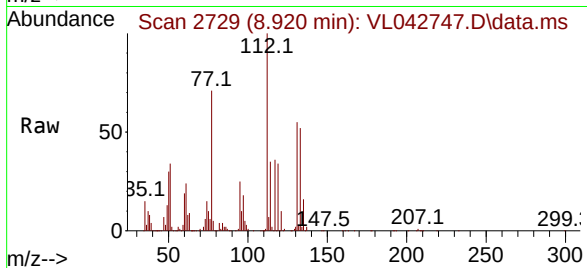




#57
Chlorobenzene
Concen: 9.082 ppbv
RT: 8.920 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

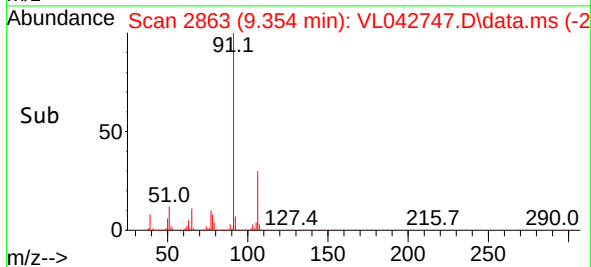
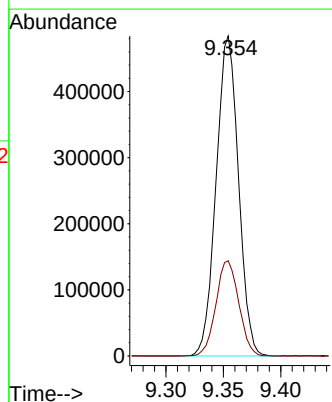
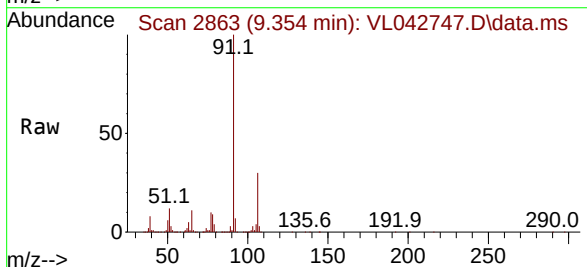
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

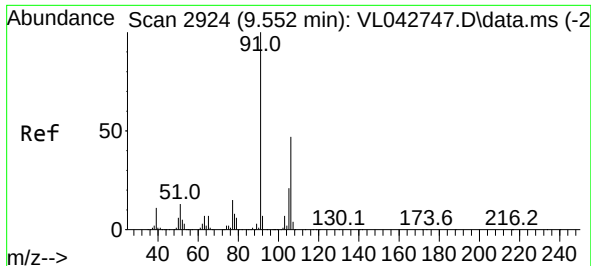
Tgt Ion:112 Resp: 371117
Ion Ratio Lower Upper
112 100
77 70.5 56.4 84.6
114 34.7 31.2 38.2



#58
Ethyl Benzene
Concen: 9.824 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 655020
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6





#59

m/p-Xylene

Concen: 8.639 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

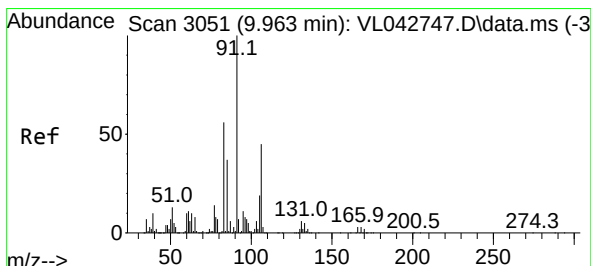
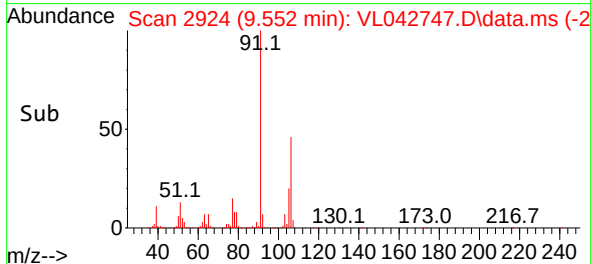
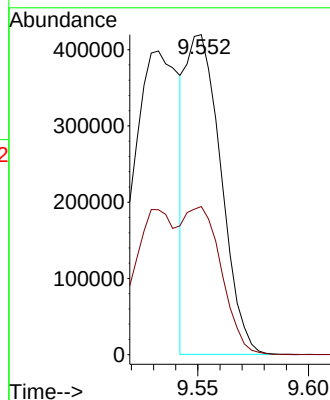
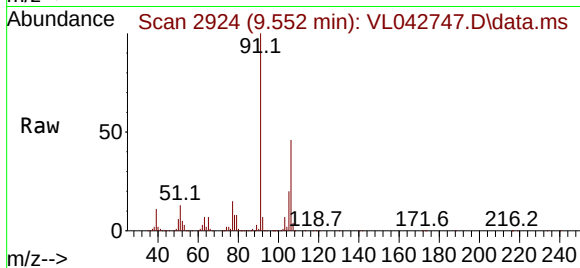
VSTDICCC010

Tgt Ion: 91 Resp: 460477

Ion Ratio Lower Upper

91 100

106 105.9 37.4 56.2#



#60

o-Xylene

Concen: 9.715 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042747.D

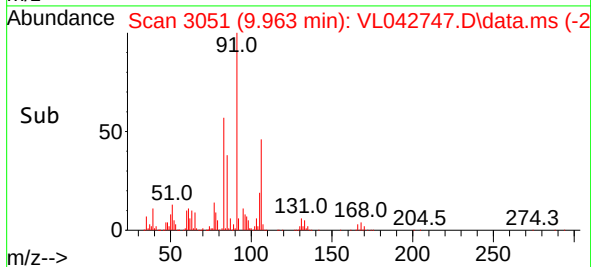
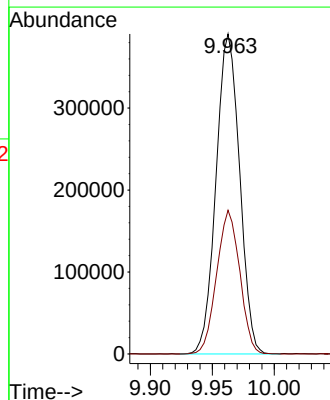
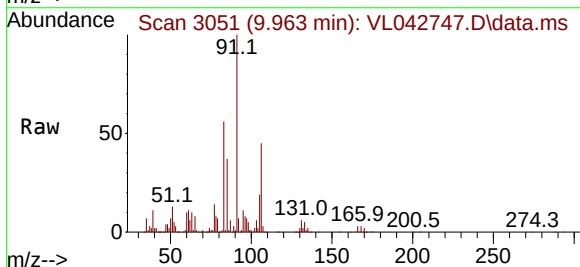
Acq: 23 Jul 2025 08:58

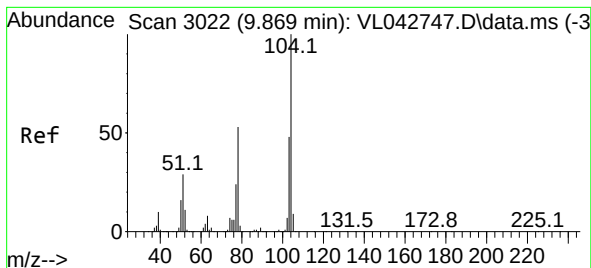
Tgt Ion: 91 Resp: 517292

Ion Ratio Lower Upper

91 100

106 44.0 22.0 66.0





#61

Styrene

Concen: 10.568 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

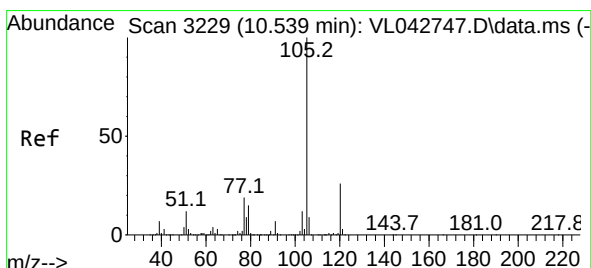
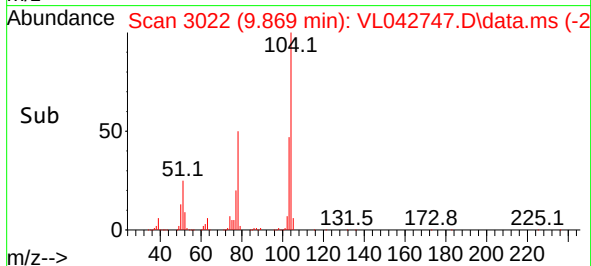
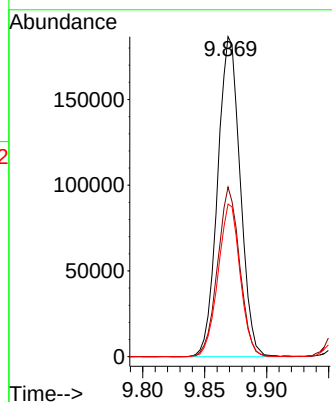
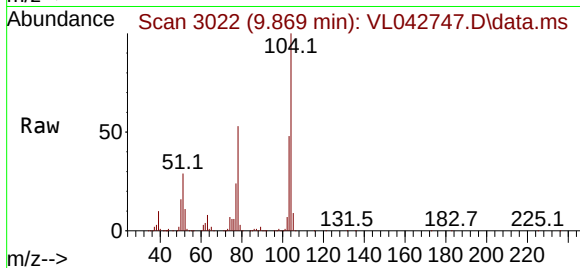
Tgt Ion:104 Resp: 236709

Ion Ratio Lower Upper

104 100

78 51.9 41.5 62.3

103 46.9 37.5 56.3



#62

Isopropylbenzene

Concen: 9.641 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042747.D

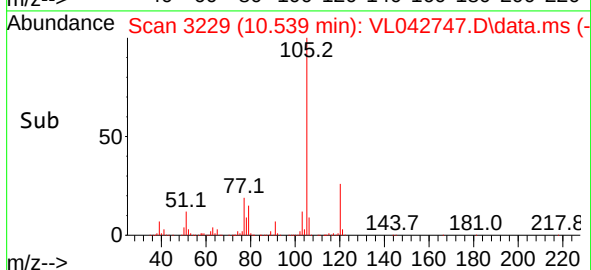
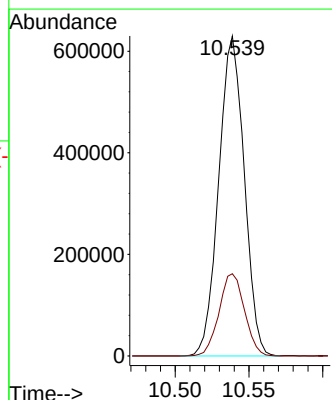
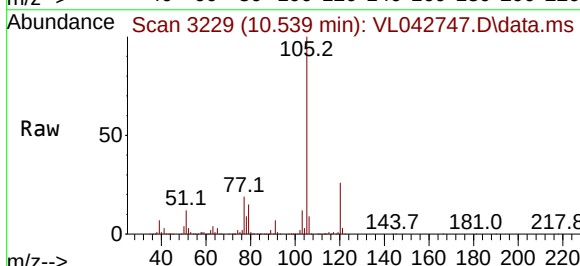
Acq: 23 Jul 2025 08:58

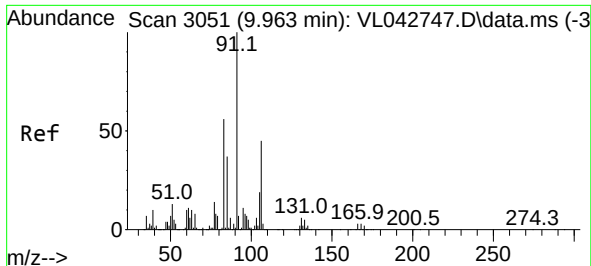
Tgt Ion:105 Resp: 757219

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

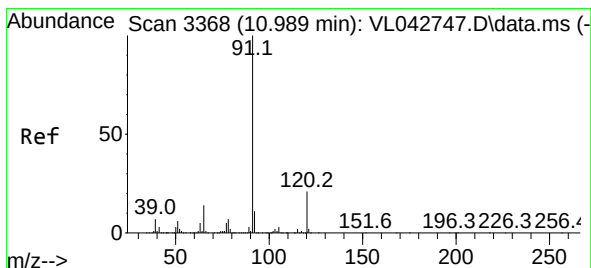
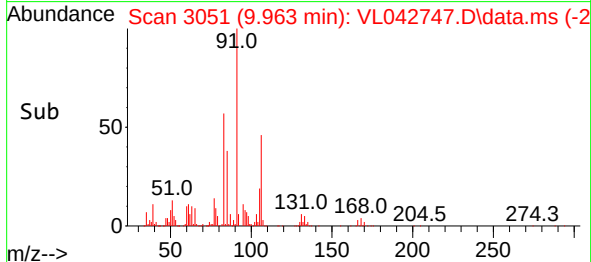
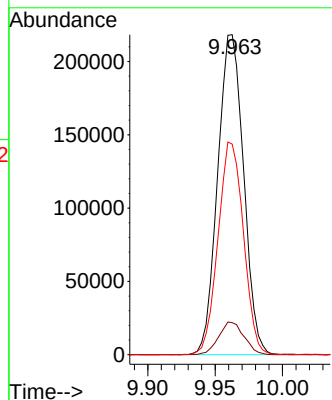
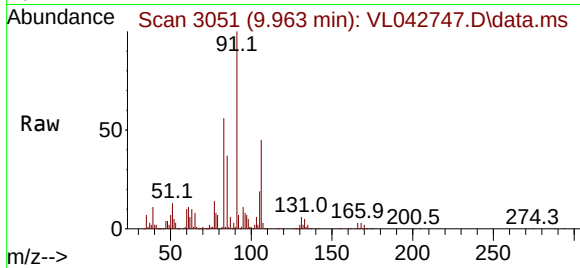




#63
 1,1,2-Tetrachloroethane
 Concen: 8.434 ppbv
 RT: 9.963 min Scan# 3051
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

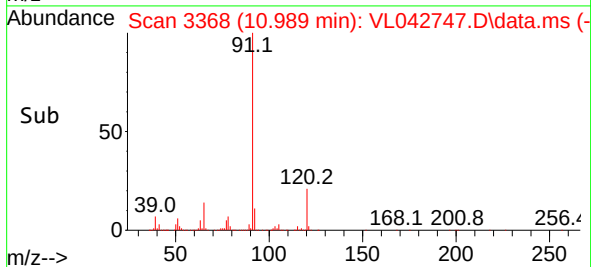
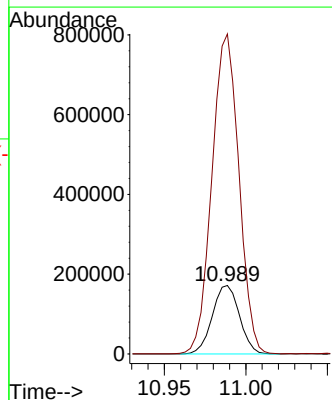
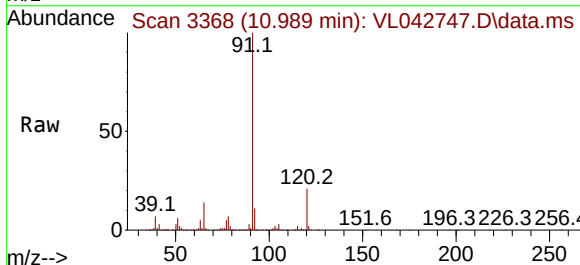
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

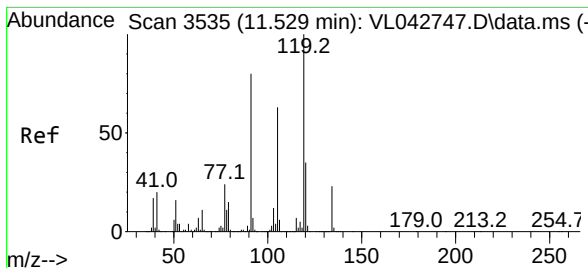
Tgt Ion: 83 Resp: 292568
 Ion Ratio Lower Upper
 83 100
 131 10.0 5.0 15.0
 85 65.1 32.6 97.7



#64
 n-propylbenzene
 Concen: 9.675 ppbv
 RT: 10.989 min Scan# 3368
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 120 Resp: 198109
 Ion Ratio Lower Upper
 120 100
 91 465.9 372.7 559.1

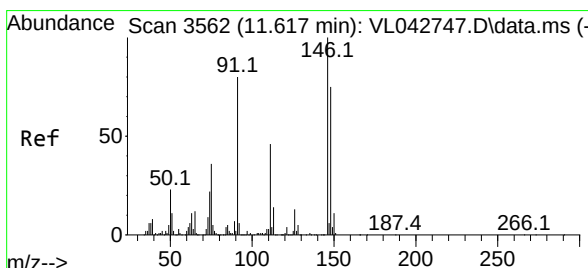
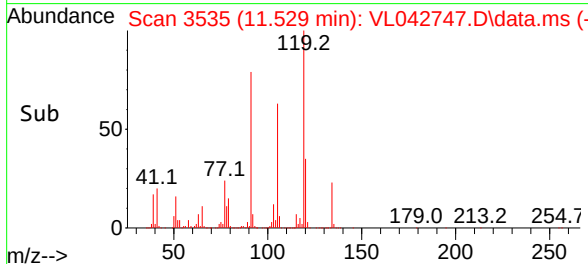
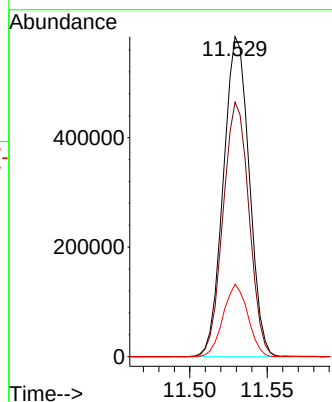
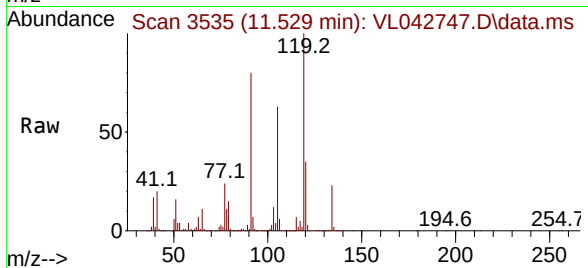




#65
tert-Butylbenzene
Concen: 9.721 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

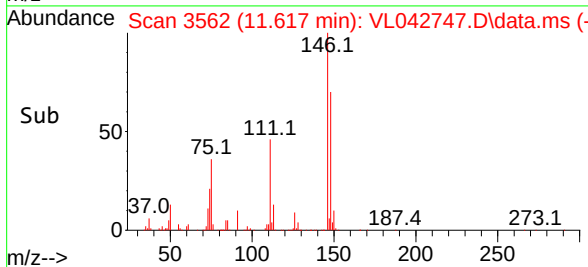
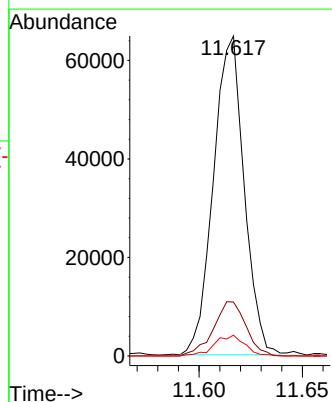
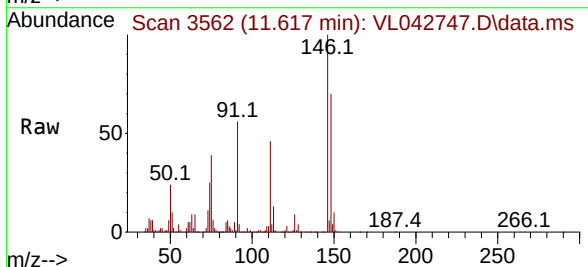
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

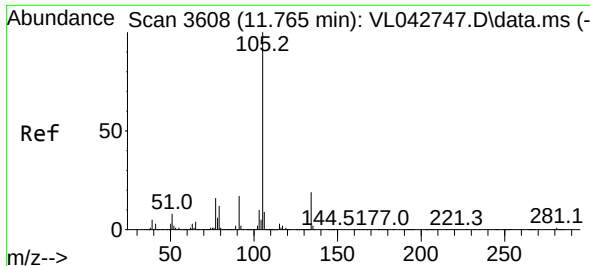
Tgt Ion:119 Resp: 678174
Ion Ratio Lower Upper
119 100
91 80.0 64.0 96.0
134 21.6 17.3 25.9



#66
Benzyl Chloride
Concen: 11.691 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 66954
Ion Ratio Lower Upper
91 100
126 18.0 14.4 21.6
128 6.5 5.2 7.8

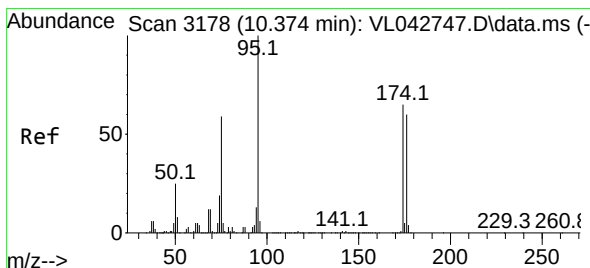
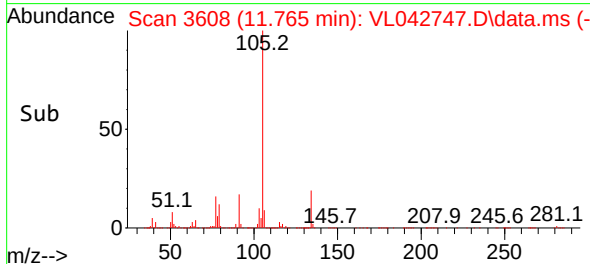
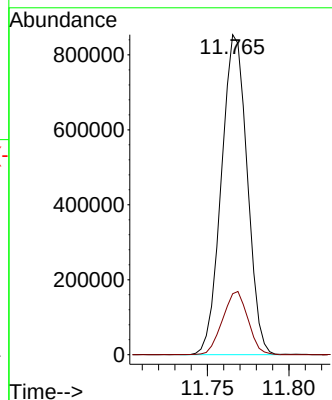
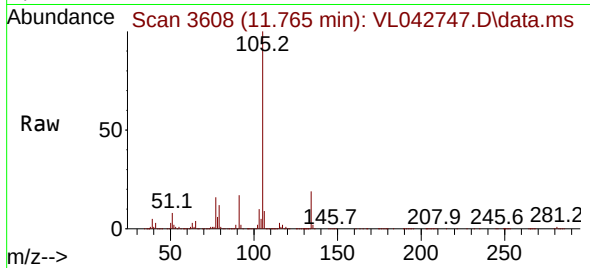




#67
 sec-Butylbenzene
 Concen: 9.468 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

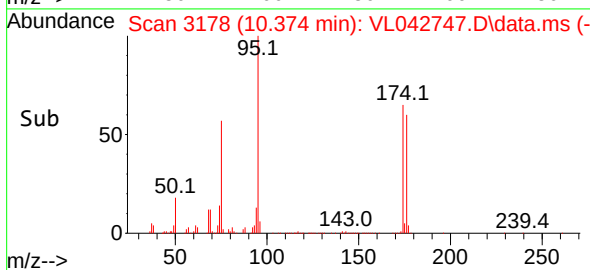
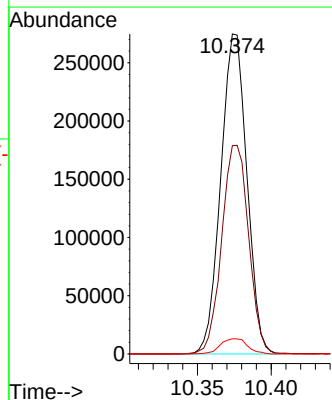
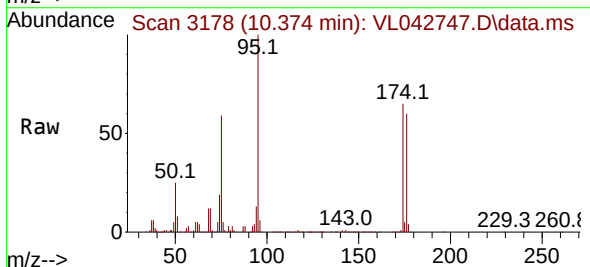
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

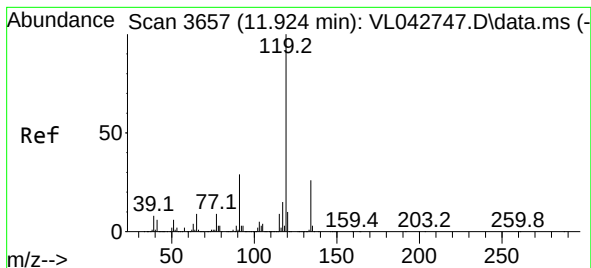
Tgt Ion:105 Resp: 939396
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.117 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 95 Resp: 338271
 Ion Ratio Lower Upper
 95 100
 174 67.2 53.8 80.6
 175 5.0 4.0 6.0





#69

p-Isopropyltoluene

Concen: 10.061 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

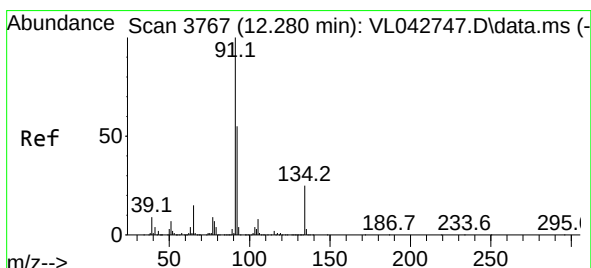
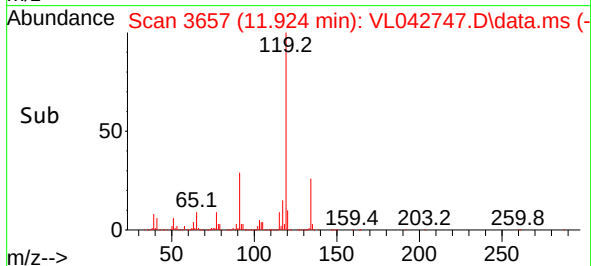
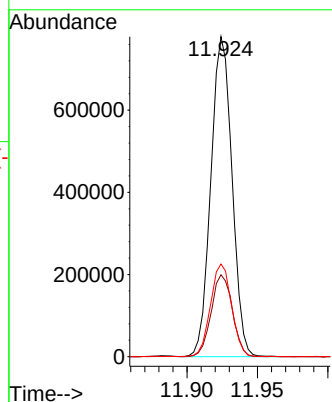
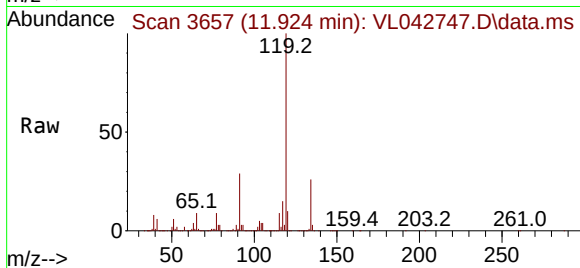
Tgt Ion:119 Resp: 814010

Ion Ratio Lower Upper

119 100

134 25.8 20.6 31.0

91 29.0 23.2 34.8



#70

n-Butylbenzene

Concen: 10.473 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

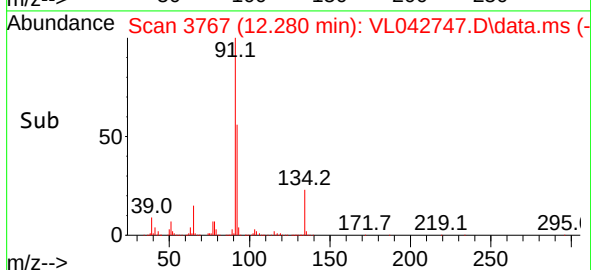
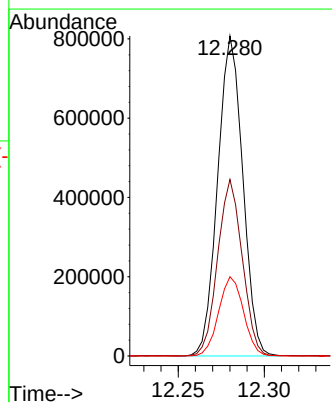
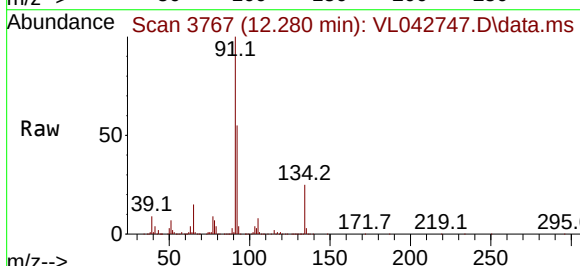
Tgt Ion: 91 Resp: 818457

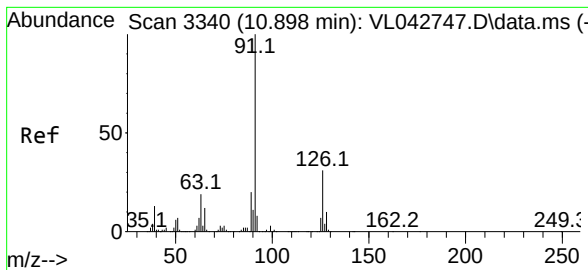
Ion Ratio Lower Upper

91 100

92 54.3 43.4 65.2

134 24.5 19.6 29.4

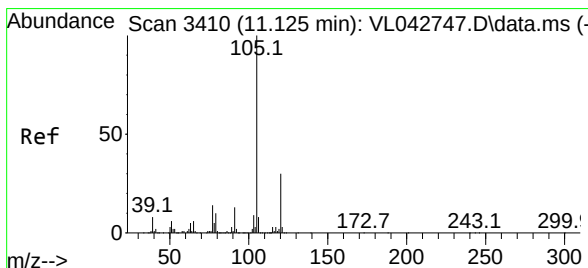
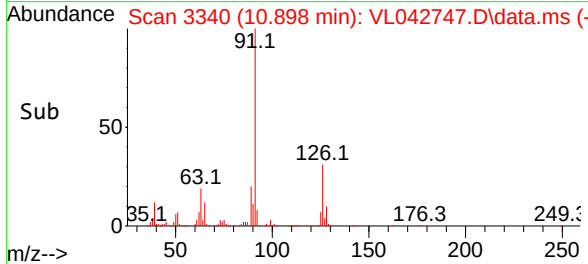
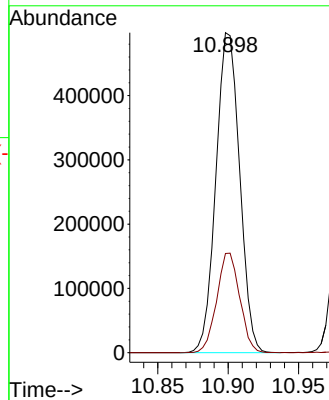
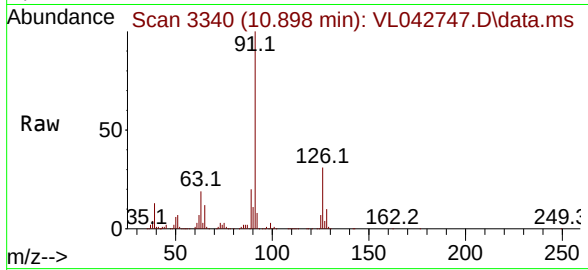




#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.898 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

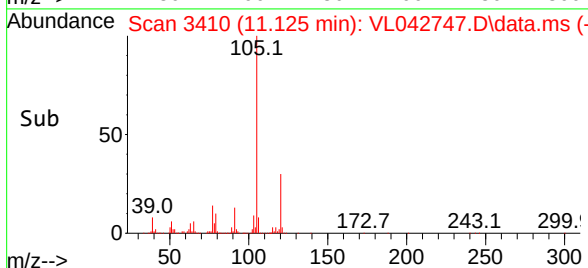
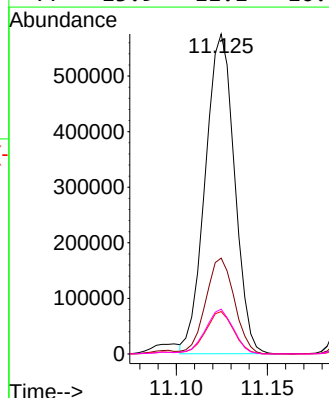
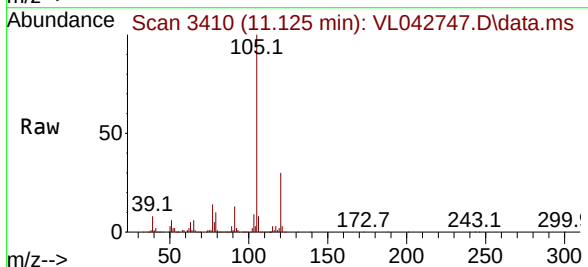
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

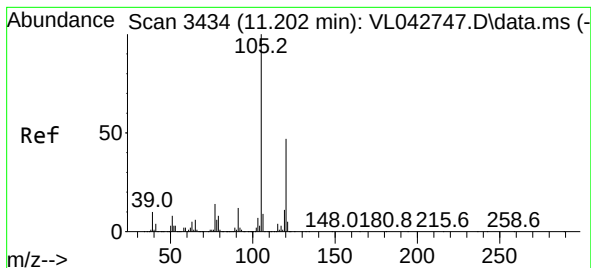
Tgt Ion: 91 Resp: 584629
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2



#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 643519
Ion Ratio Lower Upper
105 100
120 30.5 24.4 36.6
91 13.2 10.6 15.8
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.285 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

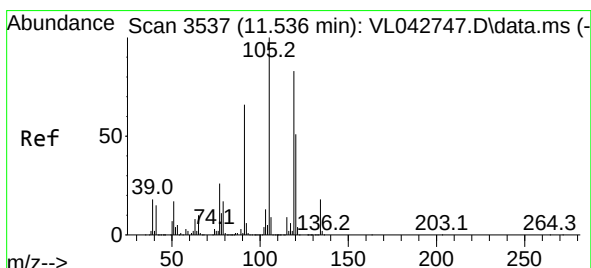
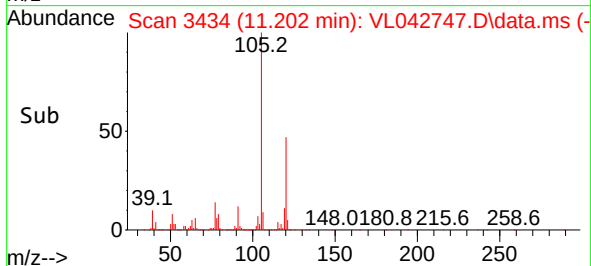
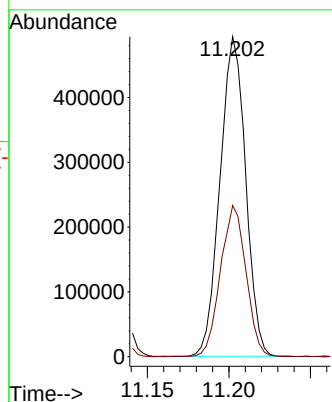
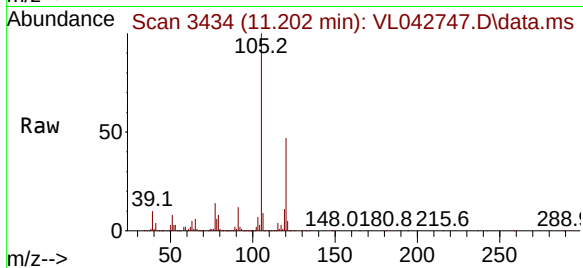
VSTDICCC010

Tgt Ion:105 Resp: 538451

Ion Ratio Lower Upper

105 100

120 47.3 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 10.232 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 584447

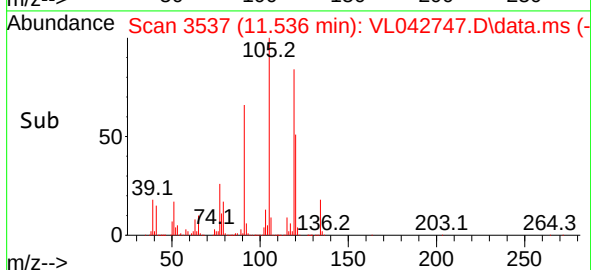
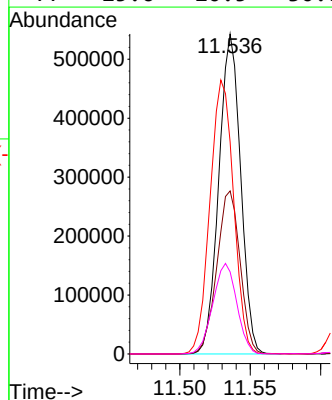
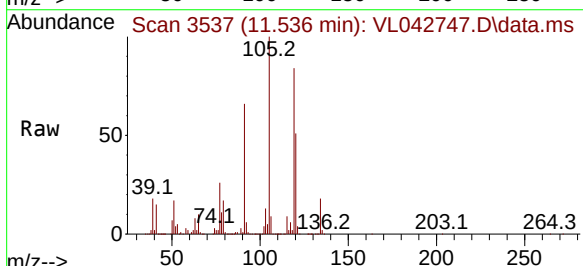
Ion Ratio Lower Upper

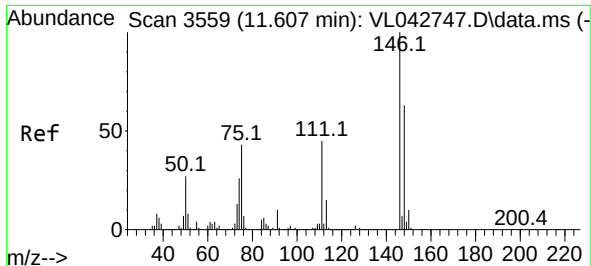
105 100

120 51.0 40.8 61.2

91 66.2 53.0 79.4

77 25.6 20.5 30.7

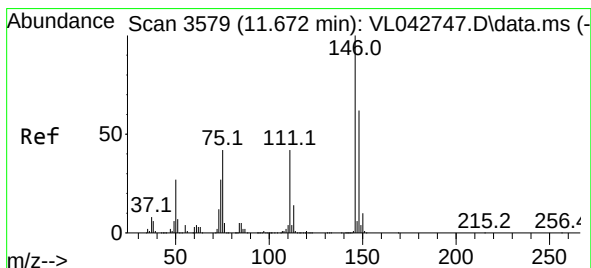
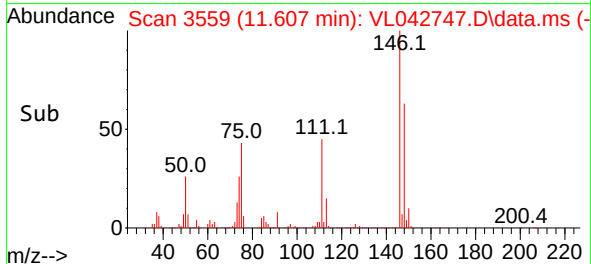
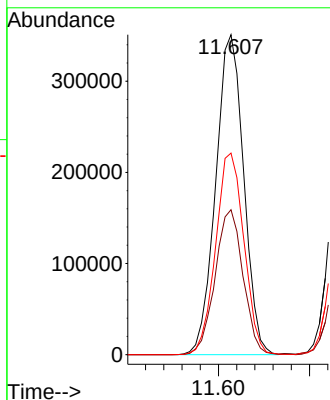
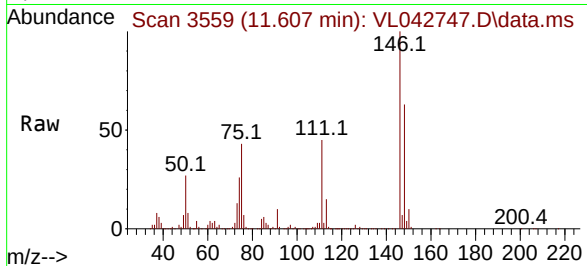




#75
1,3-Dichlorobenzene
Concen: 9.355 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

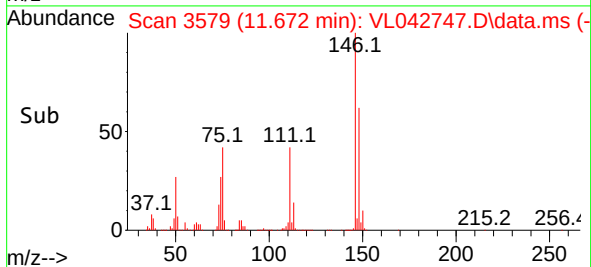
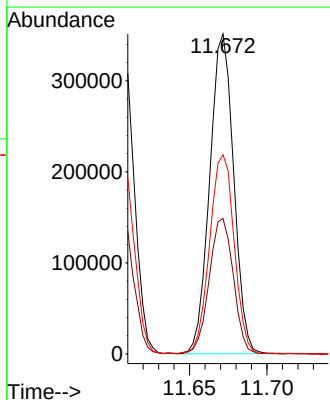
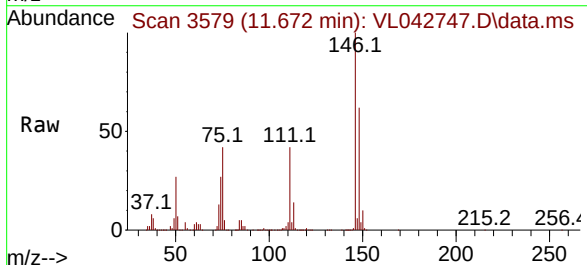
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

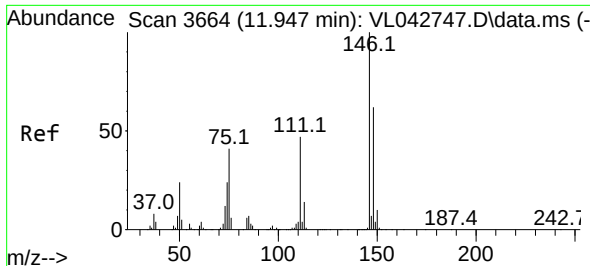
Tgt Ion:146 Resp: 374587
Ion Ratio Lower Upper
146 100
111 45.3 22.7 68.0
148 63.7 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 9.649 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:146 Resp: 378093
Ion Ratio Lower Upper
146 100
111 42.8 21.4 64.2
148 64.2 32.1 96.3

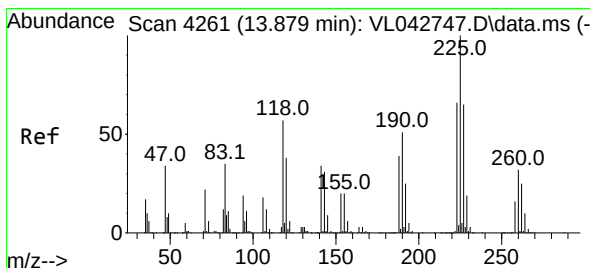
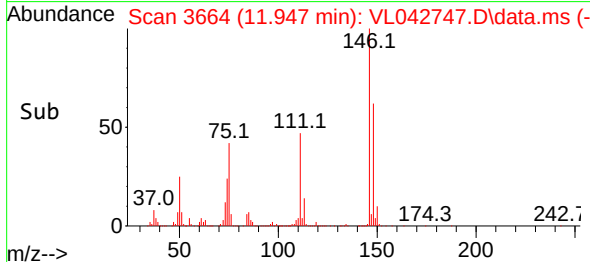
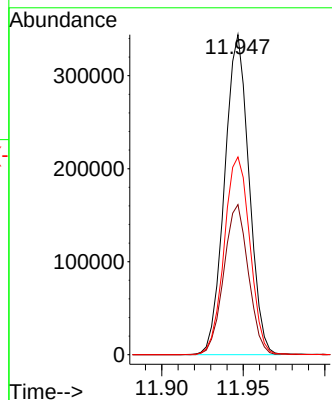
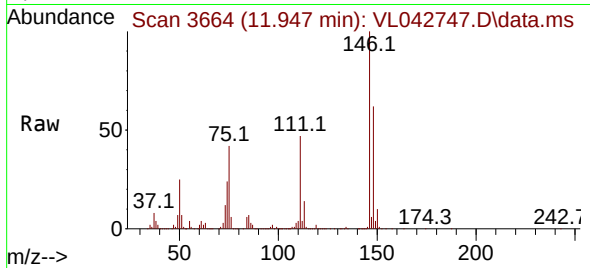




#77
1,2-Dichlorobenzene
Concen: 9.102 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

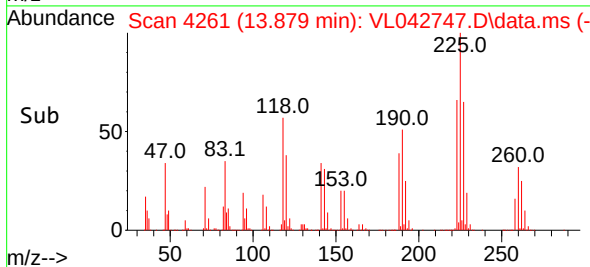
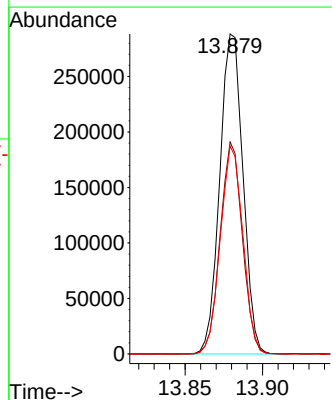
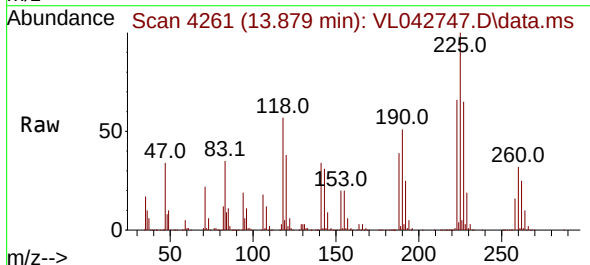
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

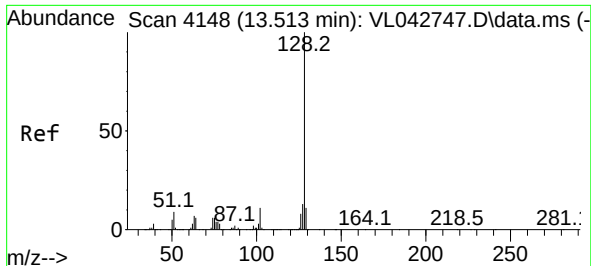
Tgt Ion:146 Resp: 358206
Ion Ratio Lower Upper
146 100
111 47.4 23.7 71.1
148 65.1 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 8.444 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:225 Resp: 300801
Ion Ratio Lower Upper
225 100
223 63.4 50.7 76.1
227 63.1 50.5 75.7

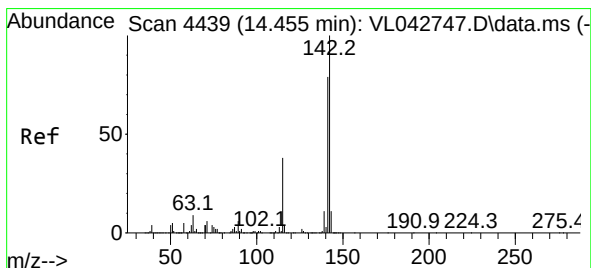
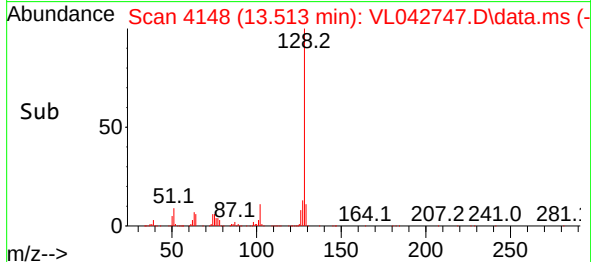
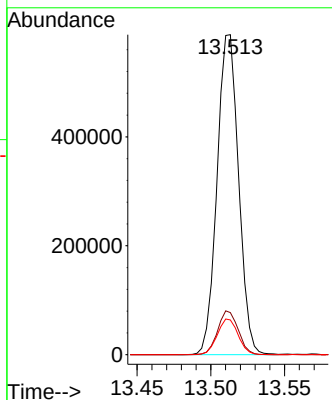
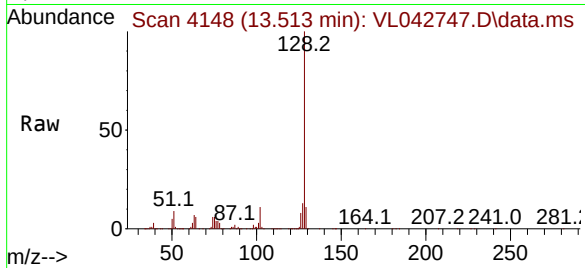




#79
Naphthalene
Concen: 9.665 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

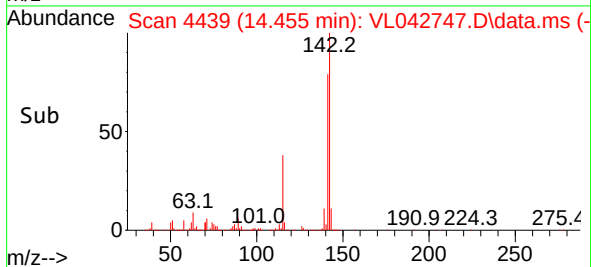
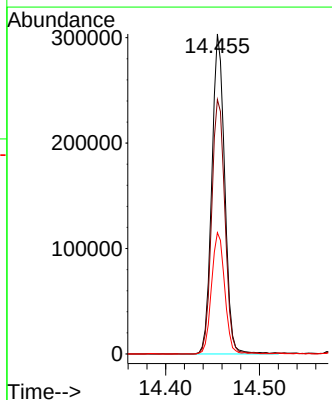
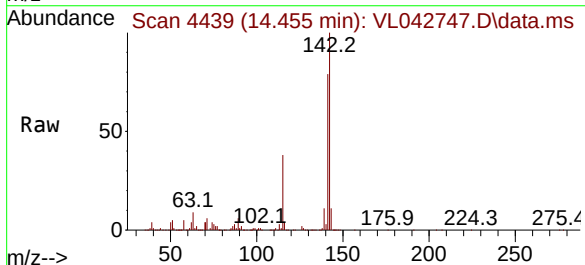
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

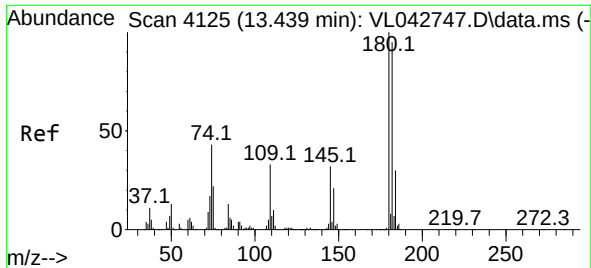
Tgt Ion:128 Resp: 598108
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.8 8.6 13.0



#80
Naphthalene,2-methyl-
Concen: 9.404 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:142 Resp: 289412
Ion Ratio Lower Upper
142 100
141 82.1 65.8 98.8
115 38.9 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 9.710 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042747.D

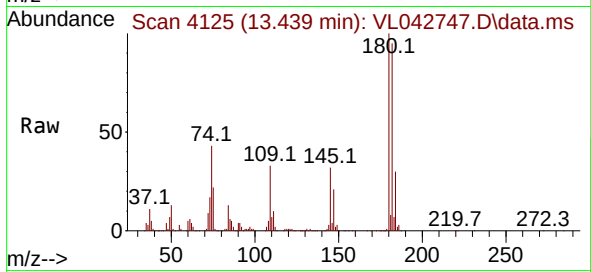
Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



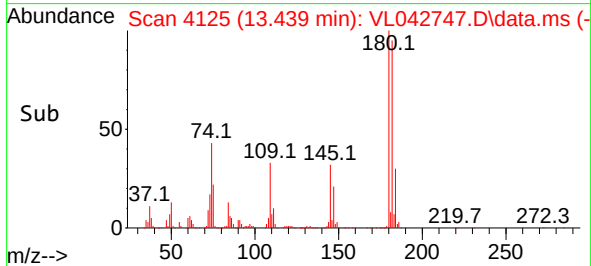
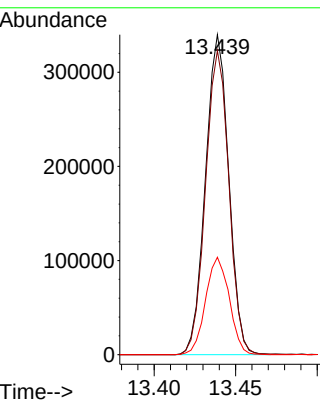
Tgt Ion:180 Resp: 337776

Ion Ratio Lower Upper

180 100

182 95.2 76.2 114.2

184 31.0 24.8 37.2



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

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 26 06:05:16 2022
 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	28682	1.074	ppbv #	32
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	2.030	96	14381	1.804	ppbv	91
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	19383	1.075	ppbv #	1
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	14747	1.953	ppbv #	69
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	6.399	75	16554	0.957	ppbv	94

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

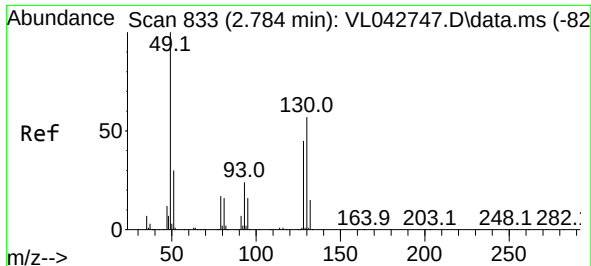
Quant Time: Jul 24 04:56:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	23760	1.084	ppbv	95
47) 1,1,2-Trichloroethane	6.567	97	16867	0.988	ppbv	94
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	5.742	43	39913	0.966	ppbv #	28
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	91147	1.758	ppbv #	30
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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

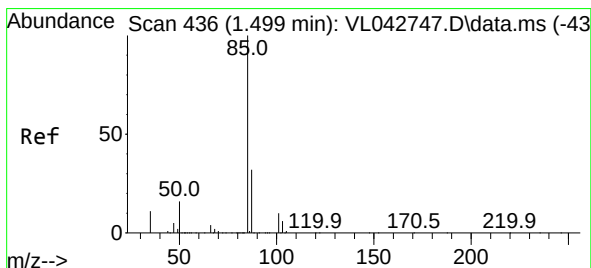
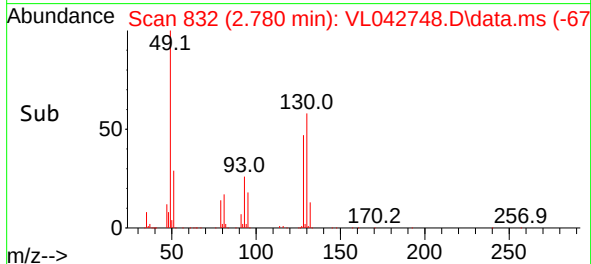
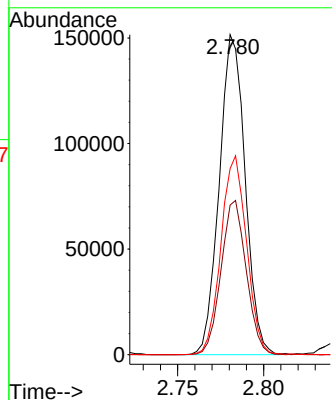
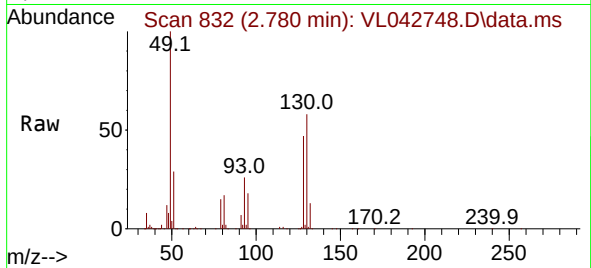
[illegible]



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

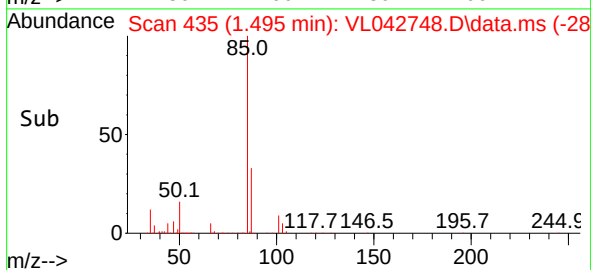
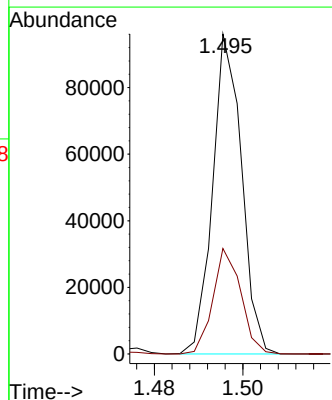
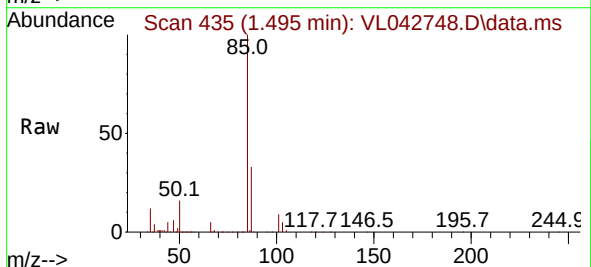
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

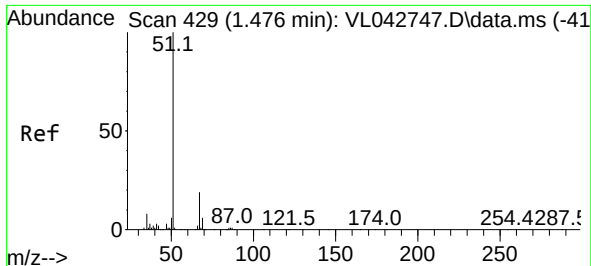
Tgt Ion: 49 Resp: 158575
Ion Ratio Lower Upper
49 100
128 47.0 23.6 71.0
130 61.6 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 43675
Ion Ratio Lower Upper
85 100
87 33.0 25.4 38.2

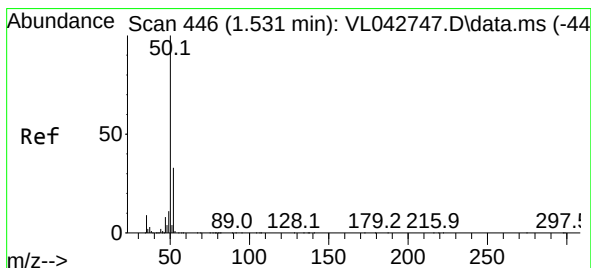
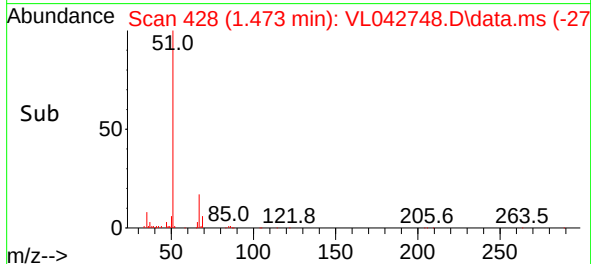
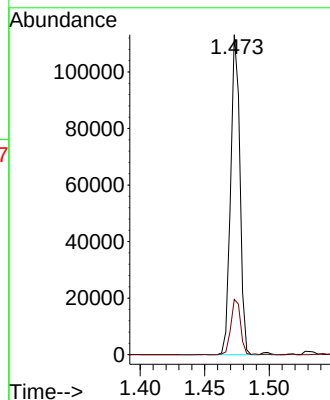
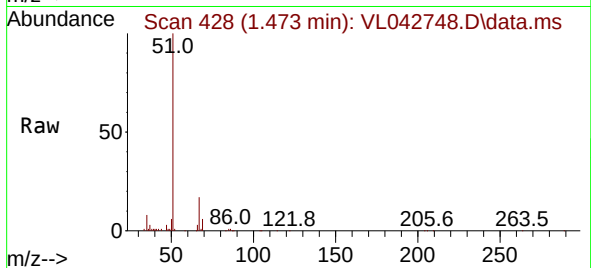




#3
Chlorodifluoromethane
Concen: 2.058 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

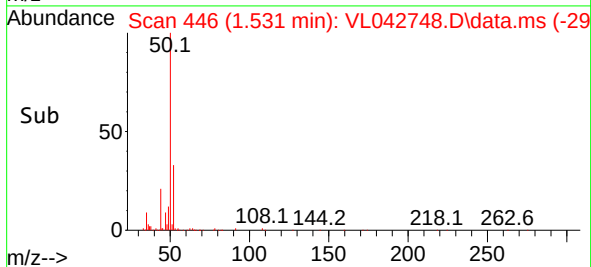
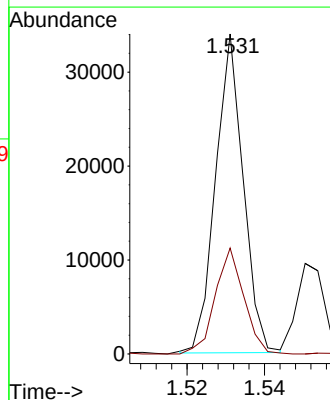
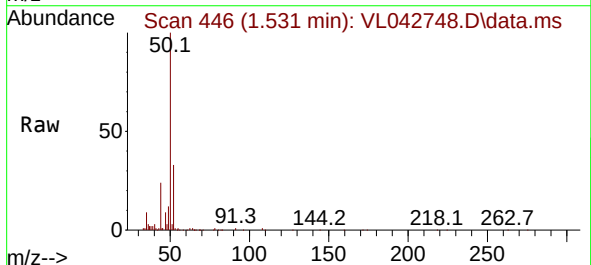
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

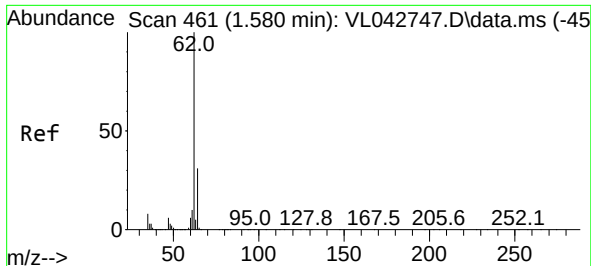
Tgt Ion: 51 Resp: 56214
Ion Ratio Lower Upper
51 100
67 18.3 15.0 22.6



#4
Chloromethane
Concen: 1.985 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 50 Resp: 16834
Ion Ratio Lower Upper
50 100
52 33.1 26.6 40.0

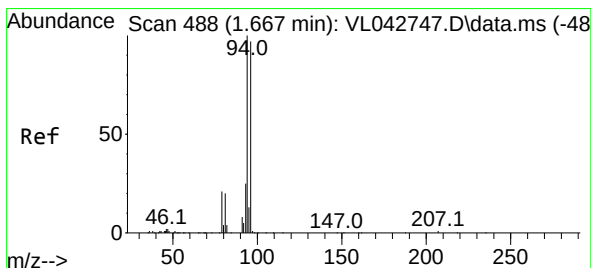
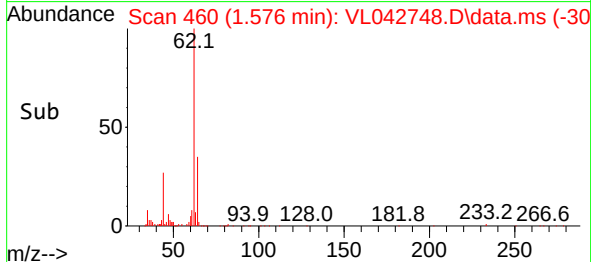
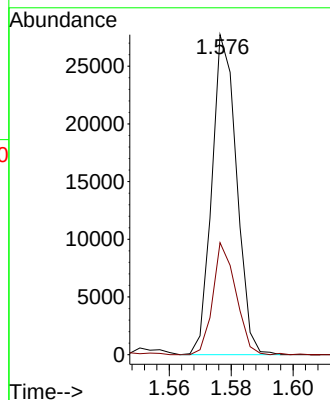
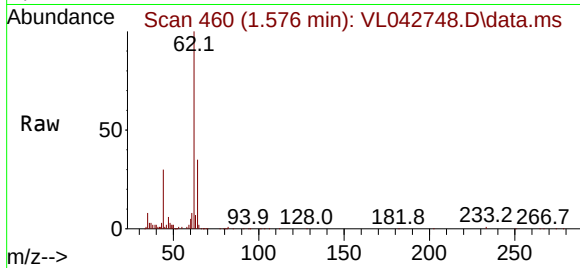




#5
 Vinyl Chloride
 Concen: 1.836 ppbv
 RT: 1.576 min Scan# 4
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

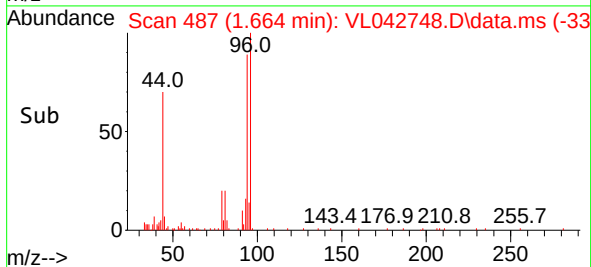
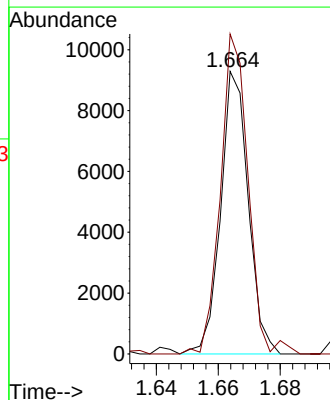
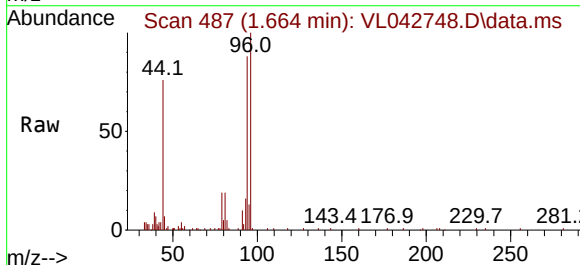
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

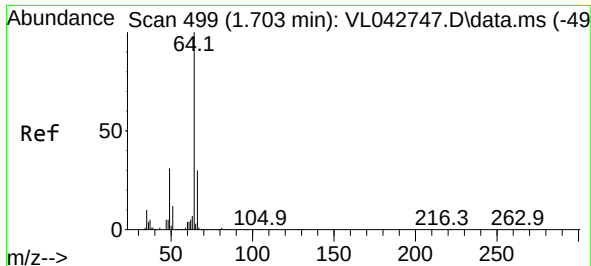
Tgt Ion: 62 Resp: 15384
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.5 36.7



#6
 Bromomethane
 Concen: 1.776 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 94 Resp: 5754
 Ion Ratio Lower Upper
 94 100
 96 113.3 77.6 116.4

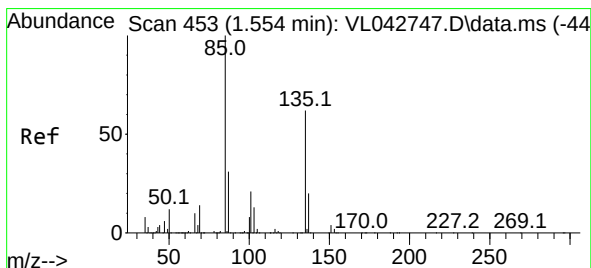
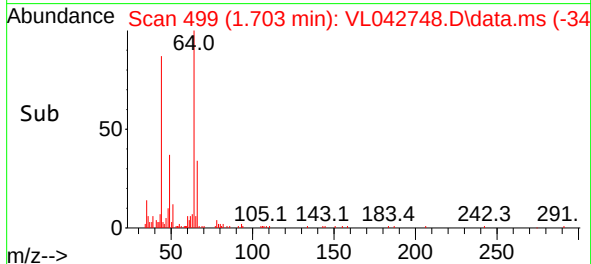
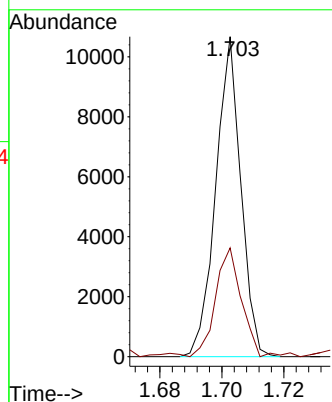
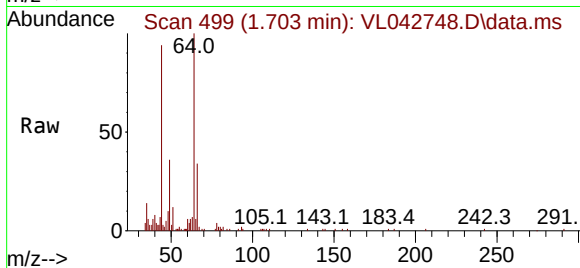




#7
Chloroethane
Concen: 1.853 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

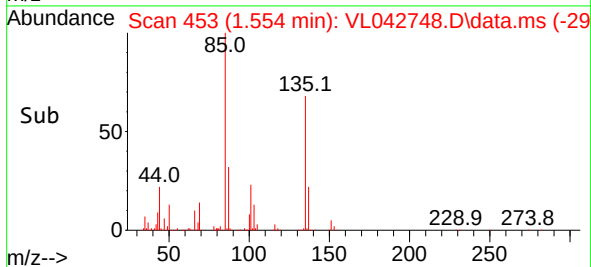
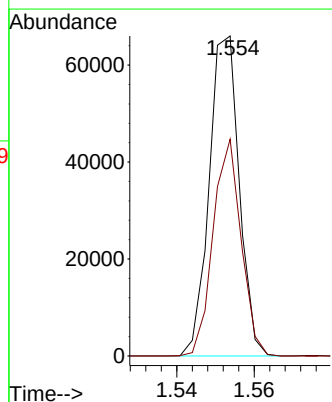
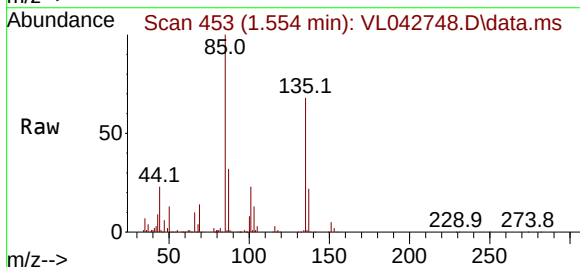
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

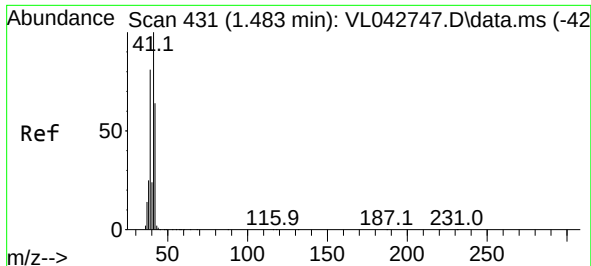
Tgt Ion: 64 Resp: 6001
Ion Ratio Lower Upper
64 100
66 34.0 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 2.066 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 35629
Ion Ratio Lower Upper
85 100
135 63.0 50.6 76.0





#9

Propene

Concen: 2.175 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

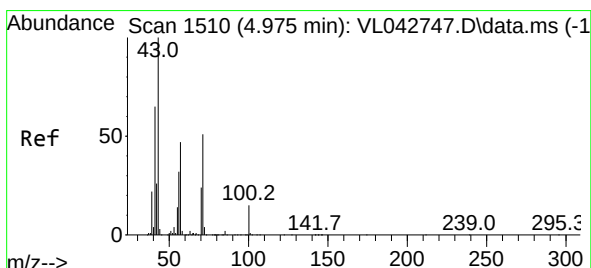
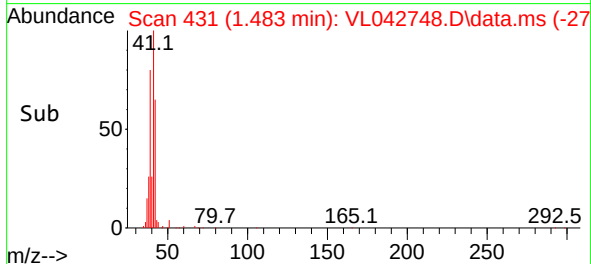
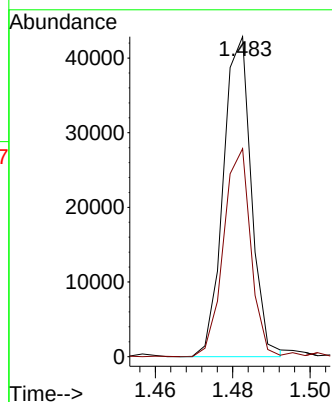
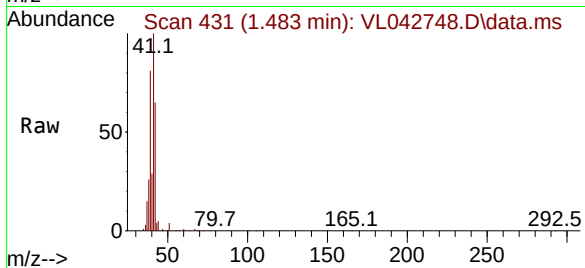
VSTDICC002

Tgt Ion: 41 Resp: 21592

Ion Ratio Lower Upper

41 100

42 64.5 53.2 79.8



#10

Heptane

Concen: 1.074 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.010 min

Lab File: VL042748.D

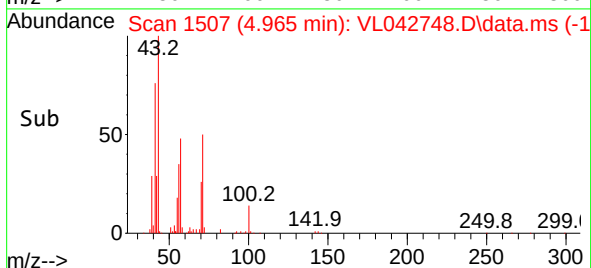
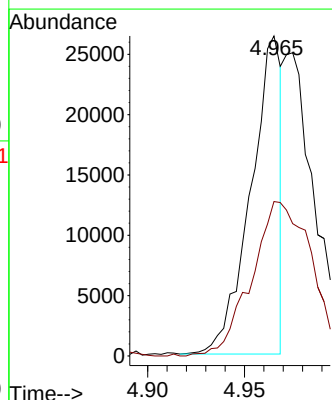
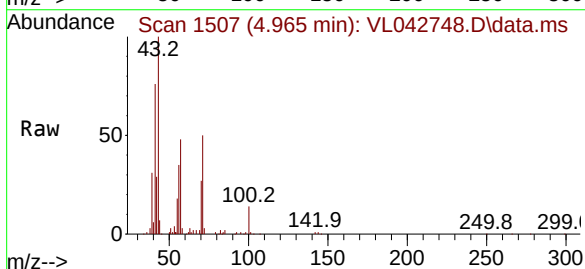
Acq: 23 Jul 2025 09:34

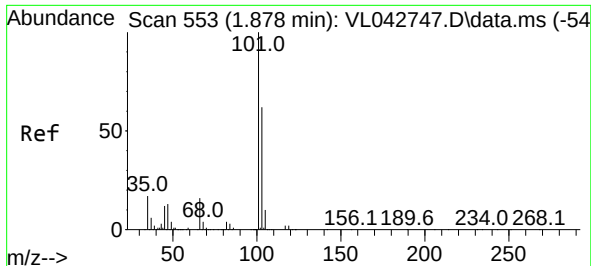
Tgt Ion: 43 Resp: 28682

Ion Ratio Lower Upper

43 100

57 97.0 39.9 59.9#

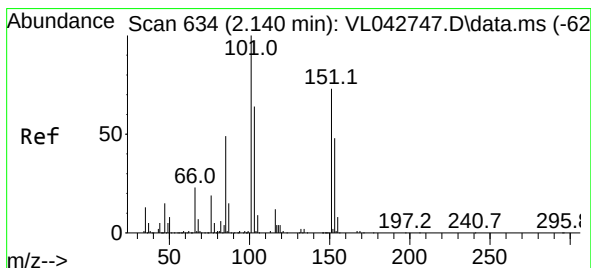
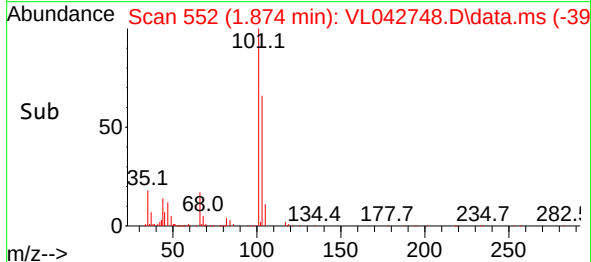
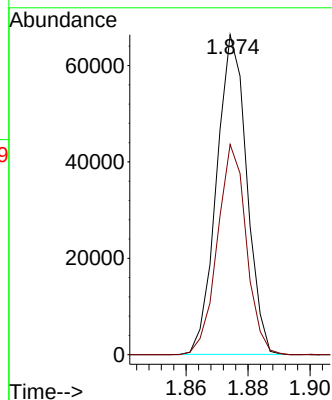
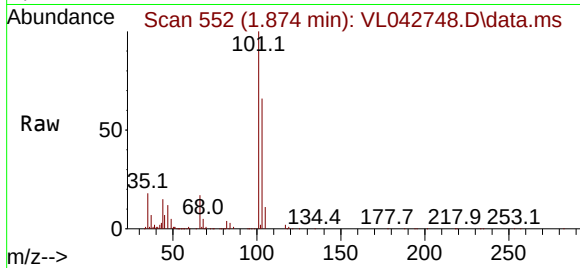




#11
 Trichlorofluoromethane
 Concen: 2.072 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

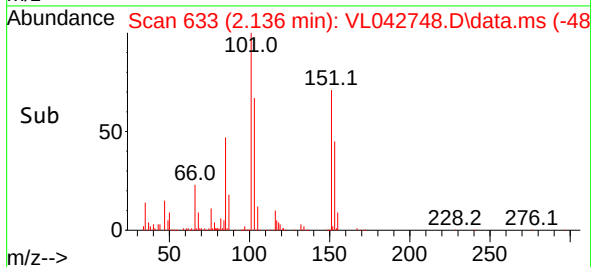
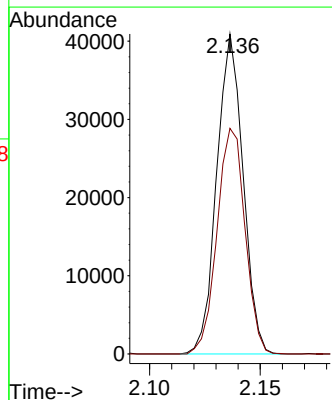
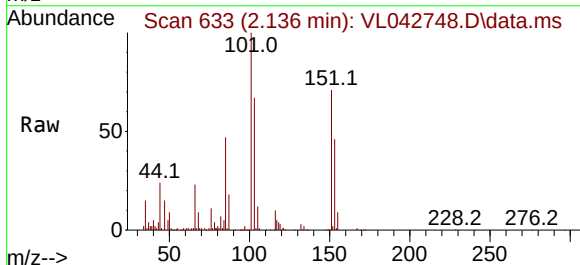
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

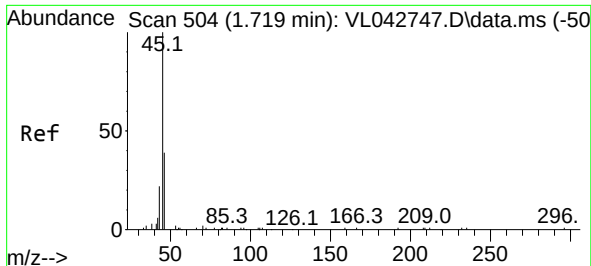
Tgt Ion:101 Resp: 44770
 Ion Ratio Lower Upper
 101 100
 103 65.8 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.065 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion:101 Resp: 33910
 Ion Ratio Lower Upper
 101 100
 151 74.9 60.5 90.7

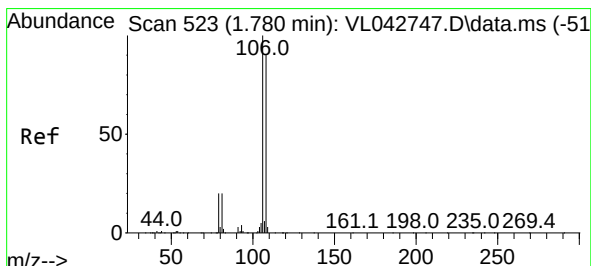
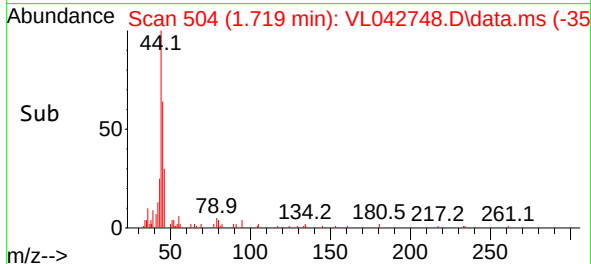
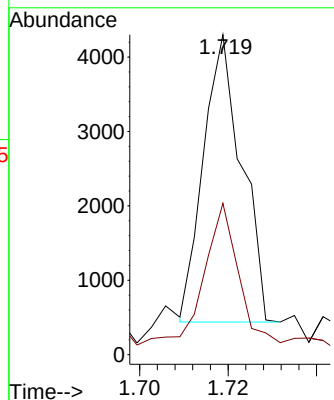
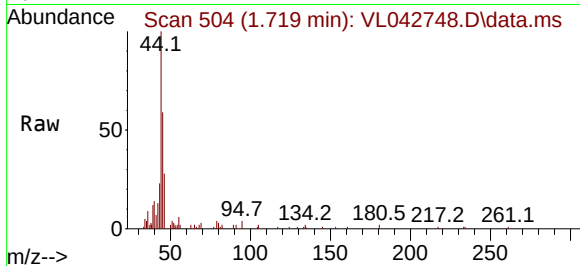




#13
Ethanol
Concen: 2.155 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

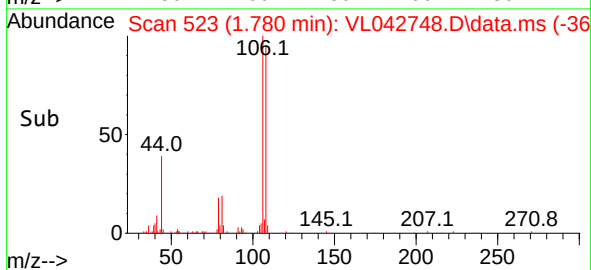
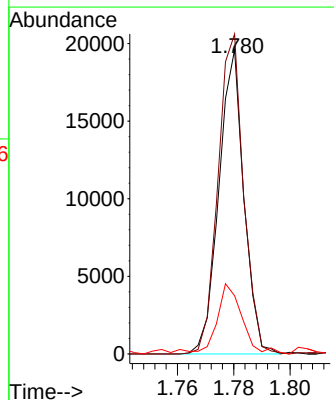
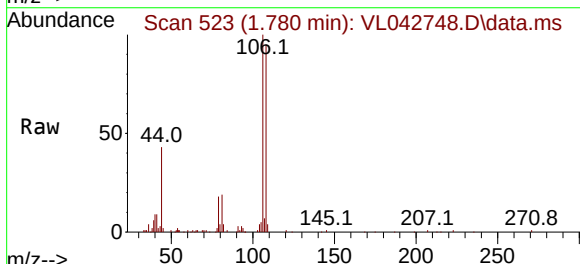
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

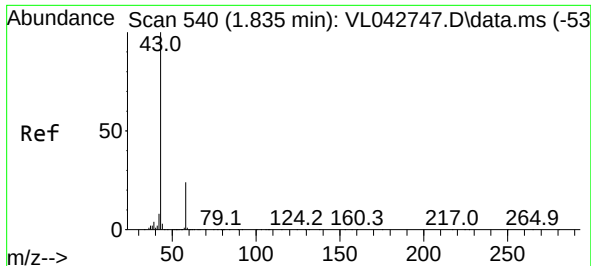
Tgt Ion: 45 Resp: 2321
Ion Ratio Lower Upper
45 100
46 58.7 17.8 71.4



#14
Bromoethene
Concen: 2.077 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 108 Resp: 12078
Ion Ratio Lower Upper
108 100
106 107.6 84.7 127.1
79 29.2 17.4 26.2#

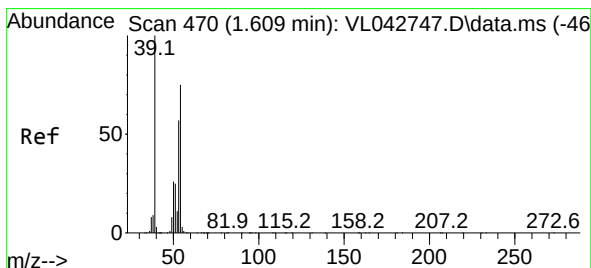
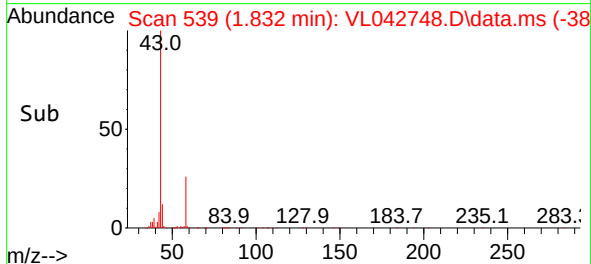
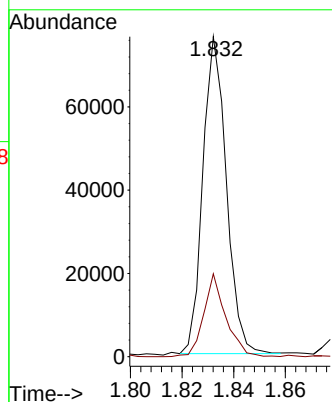
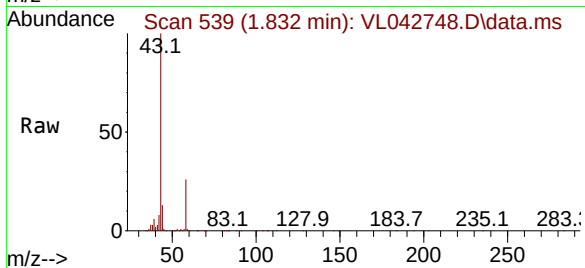




#15
Acetone
Concen: 2.202 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

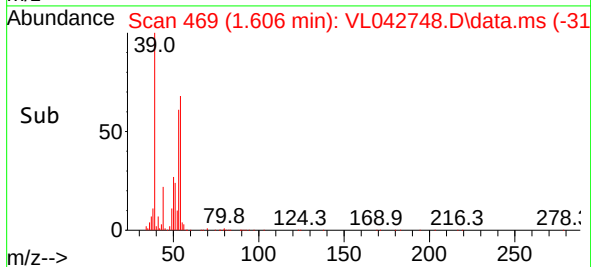
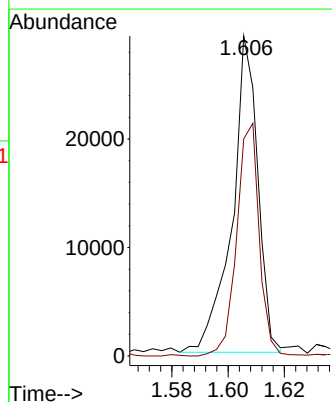
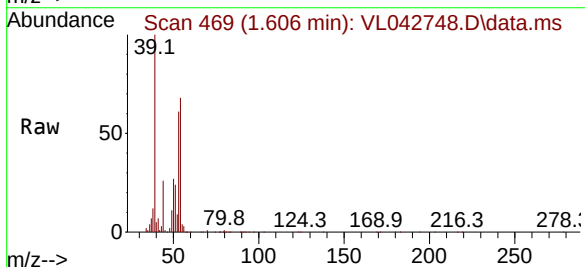
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

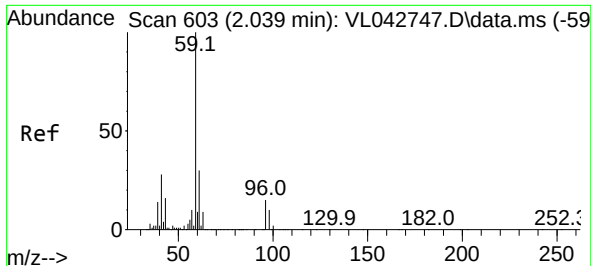
Tgt Ion: 43 Resp: 48226
Ion Ratio Lower Upper
43 100
58 25.0 19.8 29.8



#16
1,3-Butadiene
Concen: 1.981 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 39 Resp: 18504
Ion Ratio Lower Upper
39 100
54 65.0 54.5 81.7

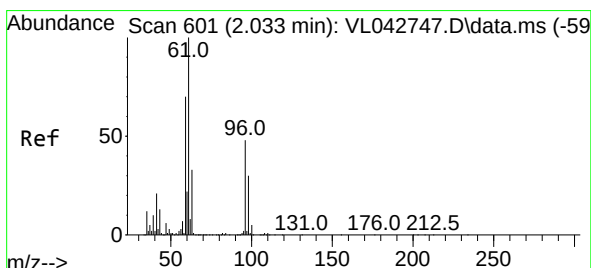
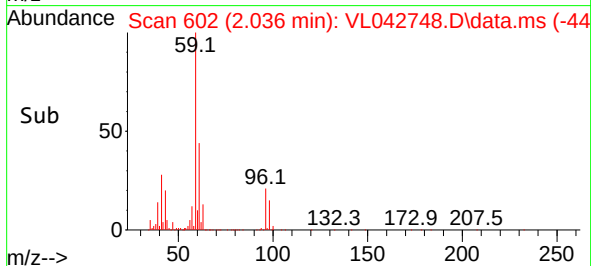
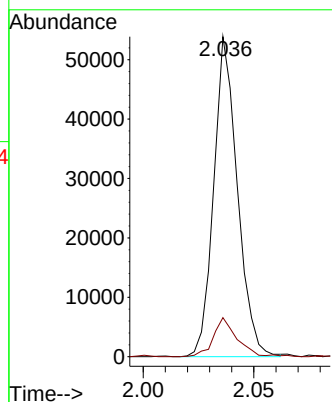
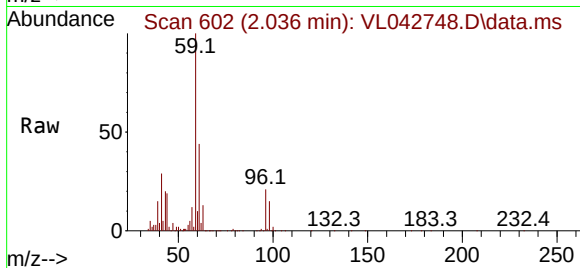




#17
tert-Butyl alcohol
Concen: 2.032 ppbv
RT: 2.036 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

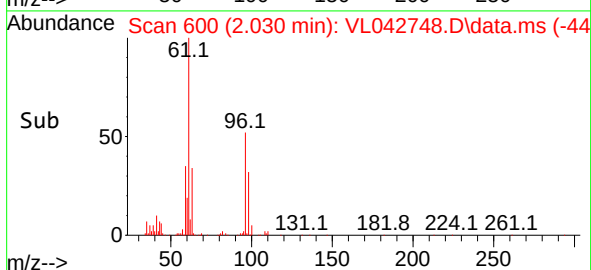
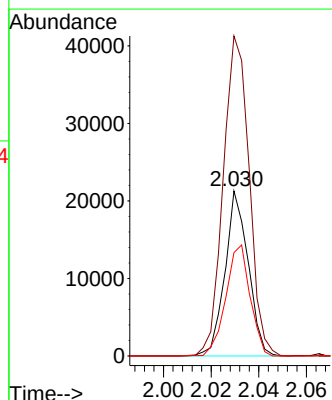
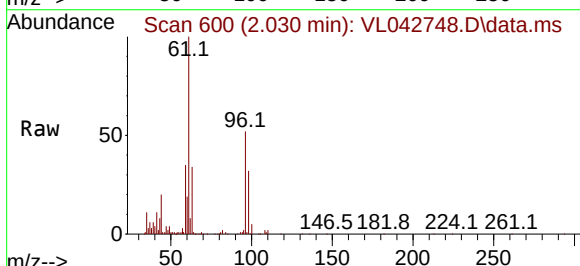
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

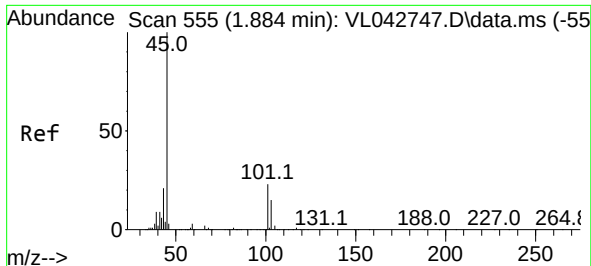
Tgt Ion: 59 Resp: 40135
Ion Ratio Lower Upper
59 100
57 12.9 8.3 12.5#



#18
1,1-Dichloroethene
Concen: 1.938 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 14381
Ion Ratio Lower Upper
96 100
61 193.9 165.8 248.6
98 62.7 49.9 74.9

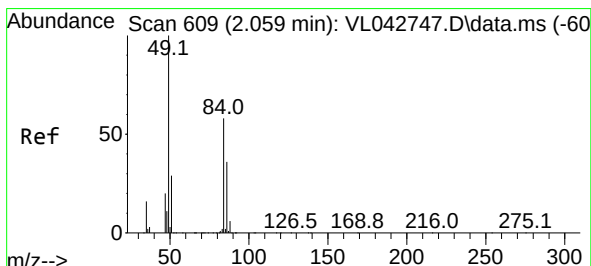
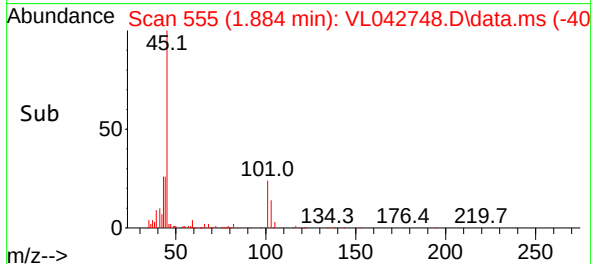
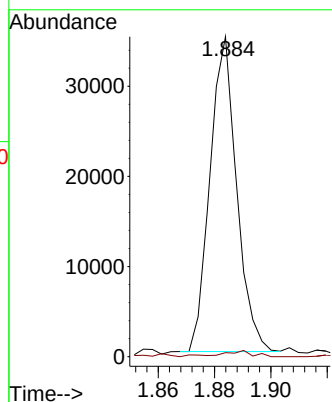
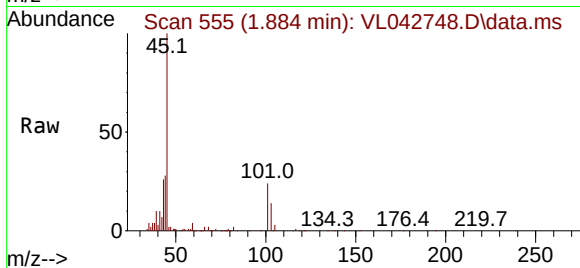




#19
Isopropyl Alcohol
Concen: 1.979 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

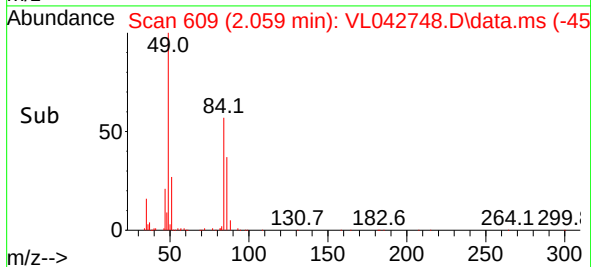
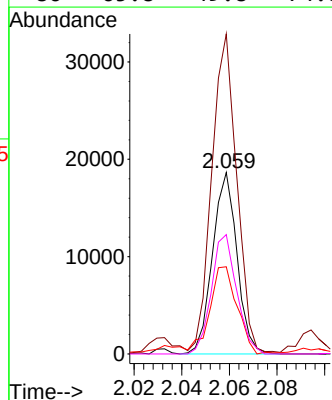
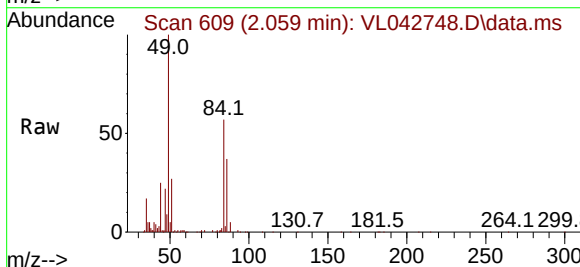
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

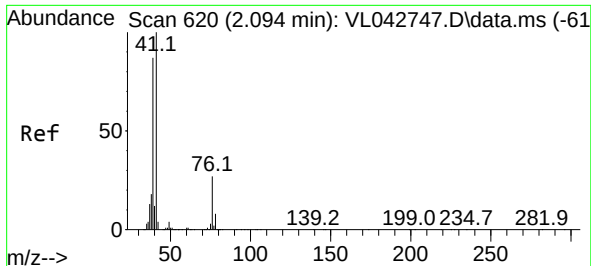
Tgt Ion: 45 Resp: 23028
Ion Ratio Lower Upper
45 100
58 52.5 30.0 45.0#



#20
Methylene Chloride
Concen: 1.927 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 84 Resp: 13296
Ion Ratio Lower Upper
84 100
49 175.4 138.6 208.0
51 47.4 40.6 61.0
86 65.8 49.8 74.8

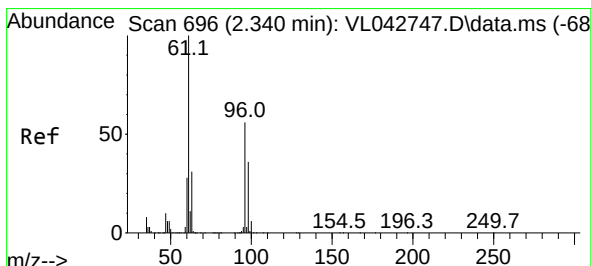
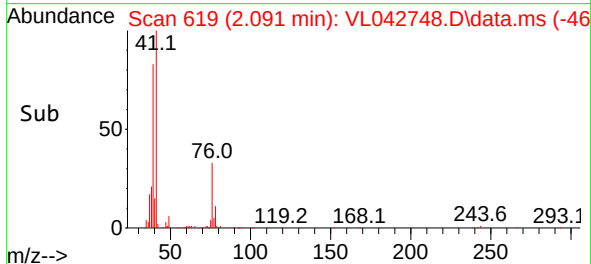
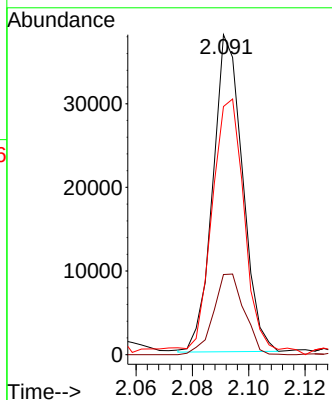
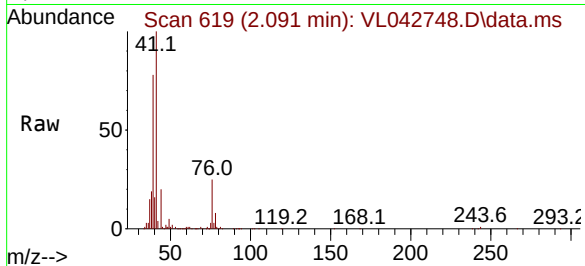




#21
 Allyl Chloride
 Concen: 2.059 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

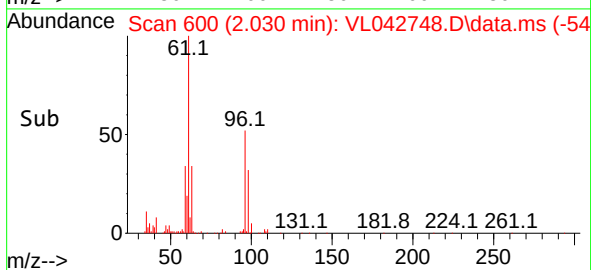
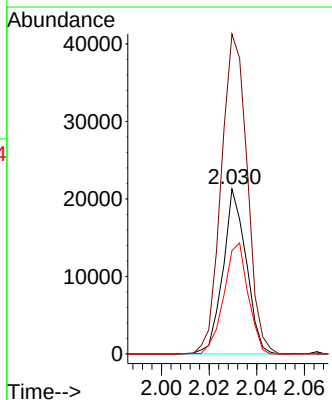
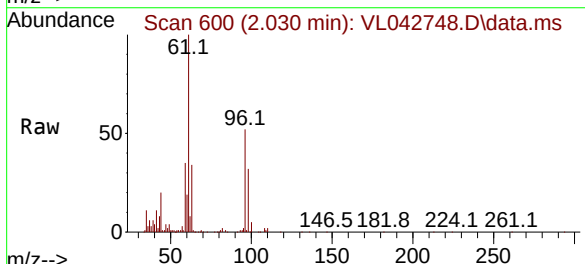
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

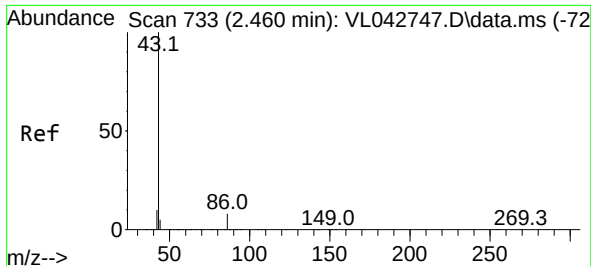
Tgt Ion: 41 Resp: 27789
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 89.5 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 1.804 ppbv
 RT: 2.030 min Scan# 600
 Delta R.T. -0.311 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 14381
 Ion Ratio Lower Upper
 96 100
 61 193.9 142.3 213.5
 98 62.7 50.6 76.0

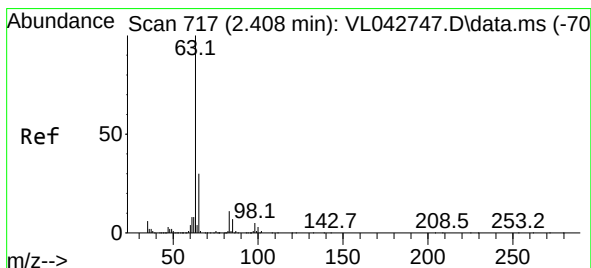
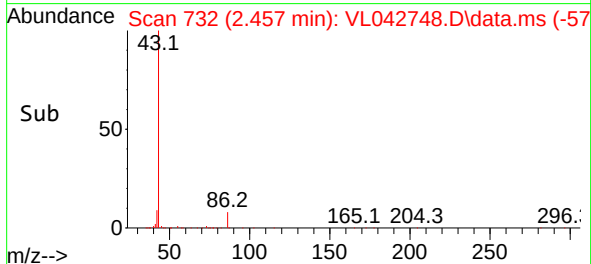
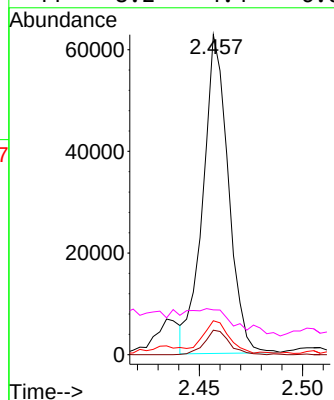
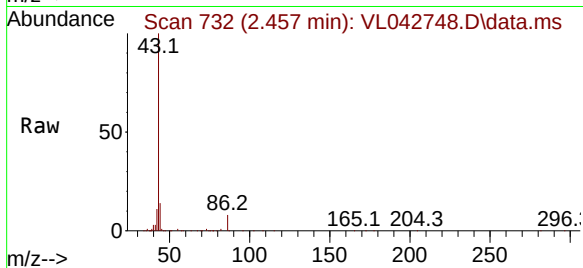




#23
 Vinyl Acetate
 Concen: 2.017 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

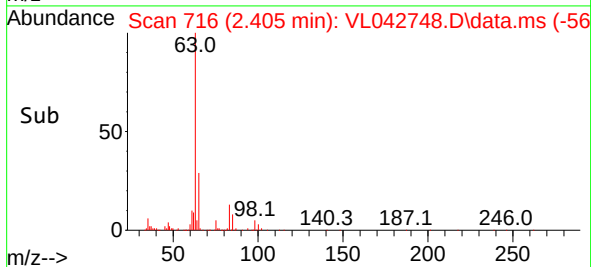
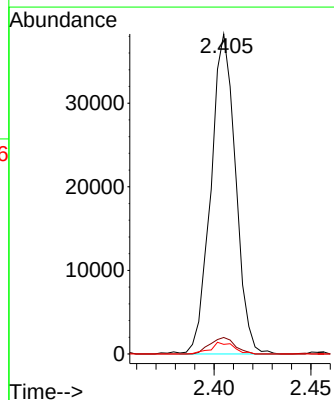
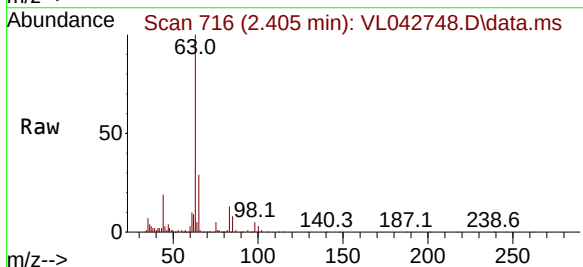
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

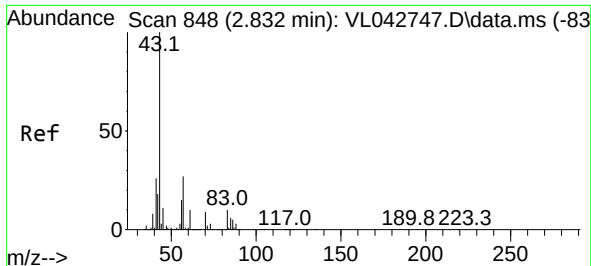
Tgt Ion:	43	Resp:	53544
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	10.1	7.8	11.8
44	8.2	4.4	6.6



#24
 1,1-Dichloroethane
 Concen: 2.073 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion:	63	Resp:	33969
Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.5	7.4
100	3.0	1.6	4.8





#25

Ethyl Acetate

Concen: 2.101 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 101853

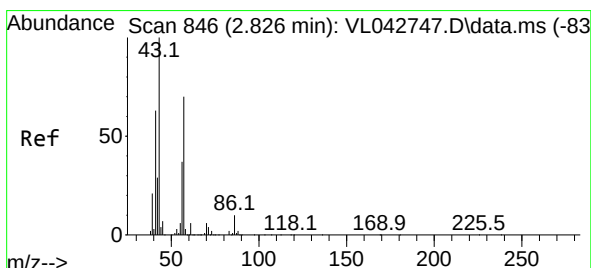
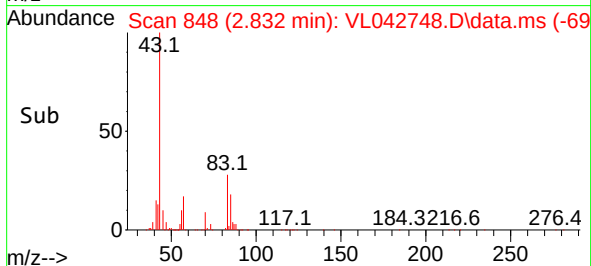
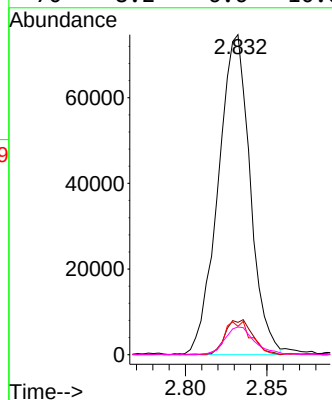
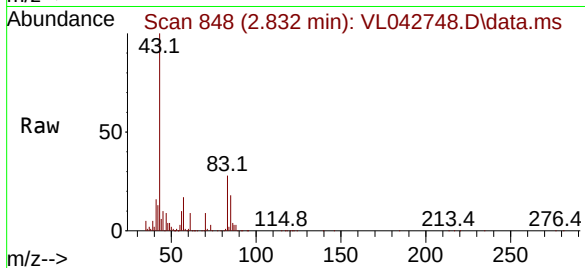
Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

61 8.9 6.7 10.1

70 8.2 6.6 10.0



#26

Hexane

Concen: 2.137 ppbv

RT: 2.822 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 45446

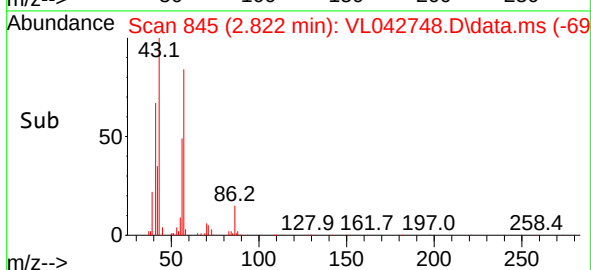
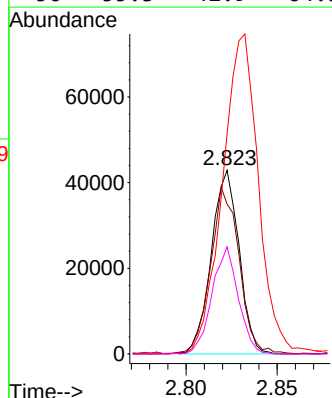
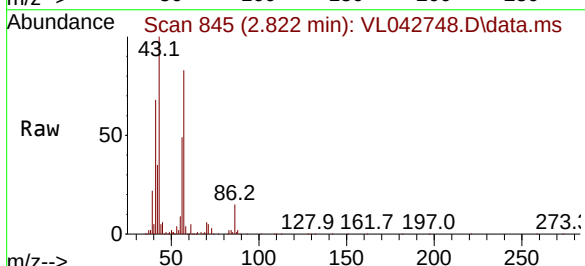
Ion Ratio Lower Upper

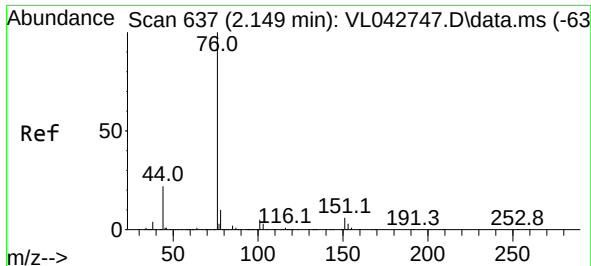
57 100

41 94.1 75.4 113.2

43 230.2 185.0 277.6

56 55.3 42.9 64.3





#27

Carbon Disulfide

Concen: 2.030 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

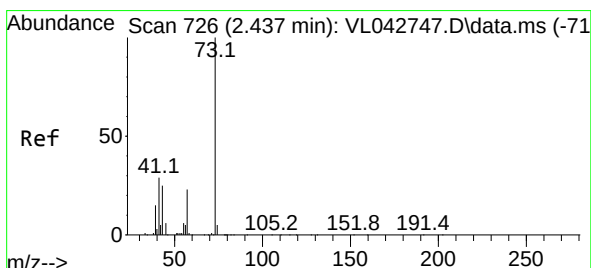
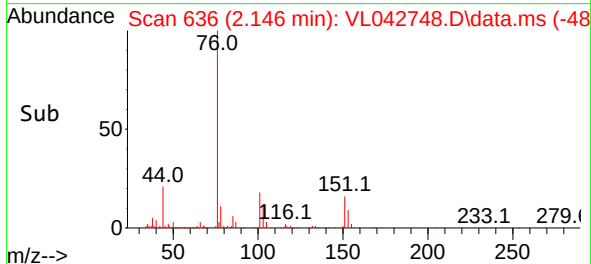
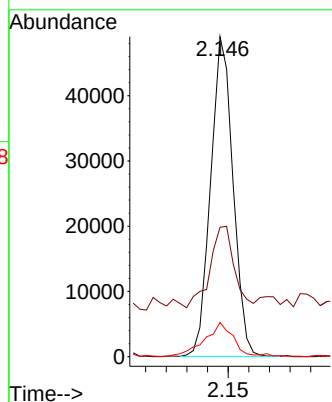
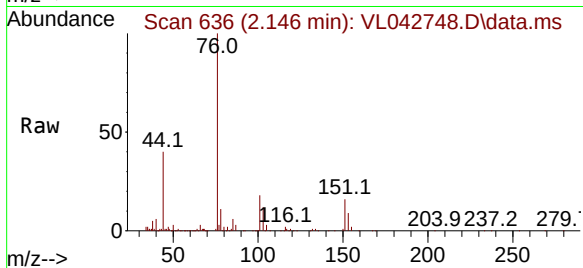
Tgt Ion: 76 Resp: 36945

Ion Ratio Lower Upper

76 100

44 71.1 19.3 28.9#

78 13.6 9.9 14.9



#28

Methyl tert-Butyl Ether

Concen: 2.051 ppbv

RT: 2.437 min Scan# 726

Delta R.T. -0.000 min

Lab File: VL042748.D

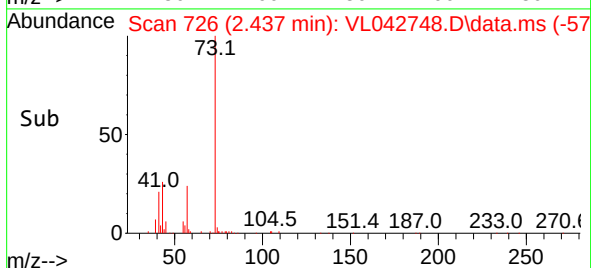
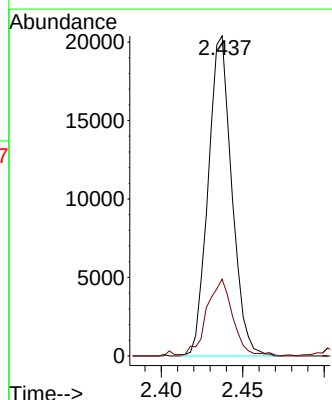
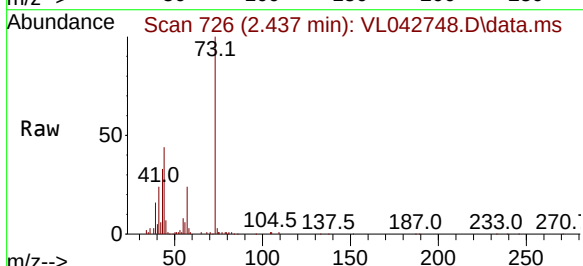
Acq: 23 Jul 2025 09:34

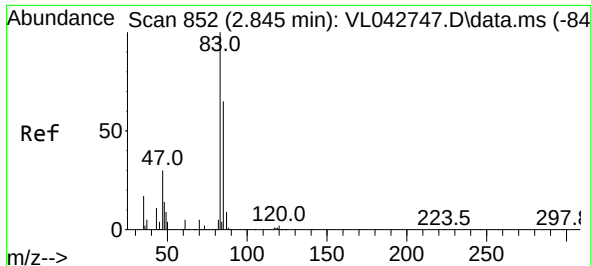
Tgt Ion: 73 Resp: 20603

Ion Ratio Lower Upper

73 100

57 26.7 19.8 29.8





#29

Chloroform

Concen: 2.062 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

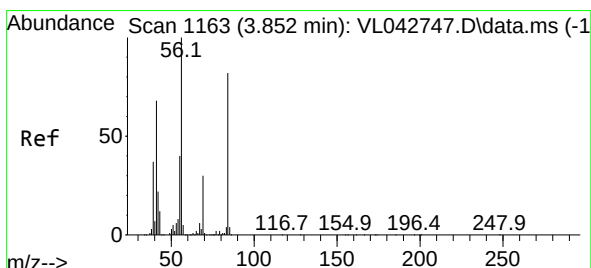
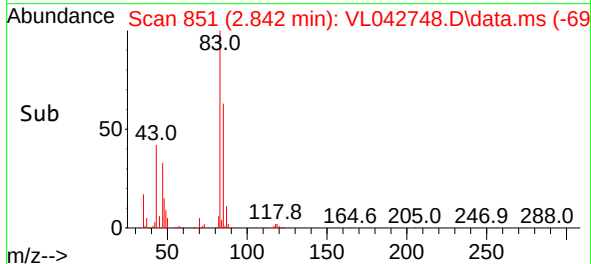
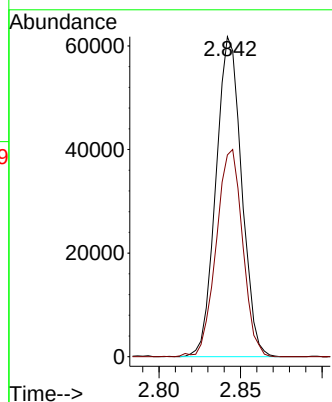
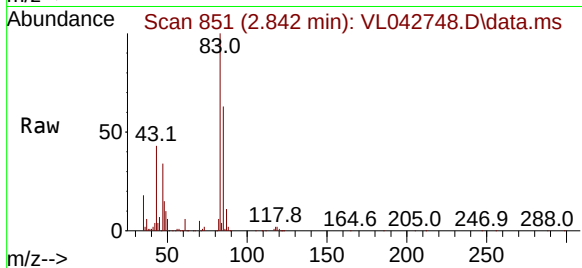
VSTDICC002

Tgt Ion: 83 Resp: 67755

Ion Ratio Lower Upper

83 100

85 63.0 52.2 78.2



#30

Cyclohexane

Concen: 1.075 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

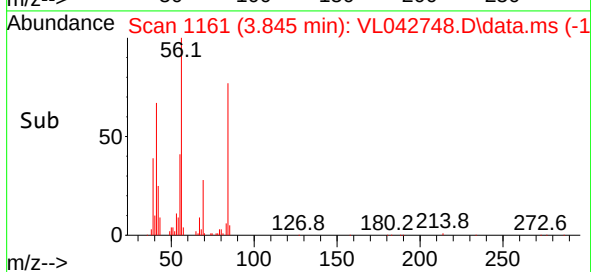
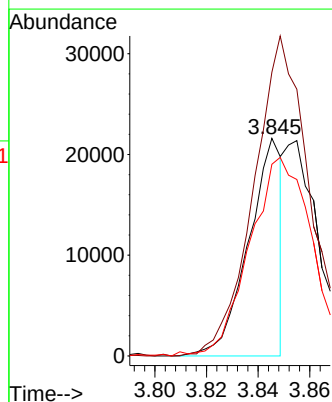
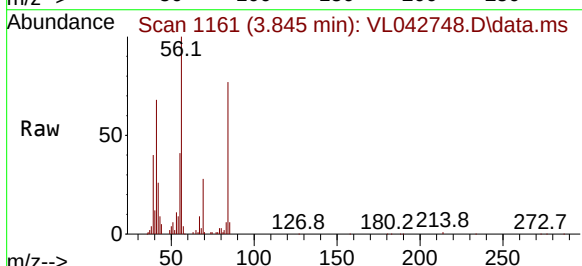
Tgt Ion: 84 Resp: 19383

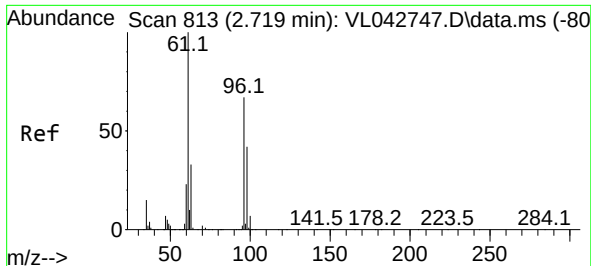
Ion Ratio Lower Upper

84 100

56 245.5 97.5 146.3#

41 171.7 67.2 100.8#

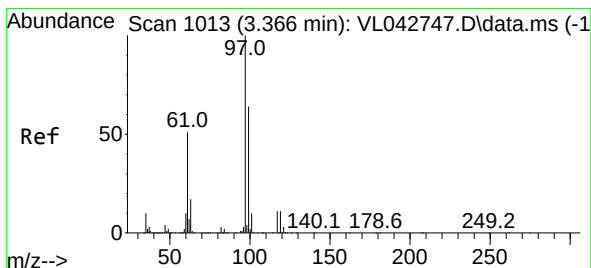
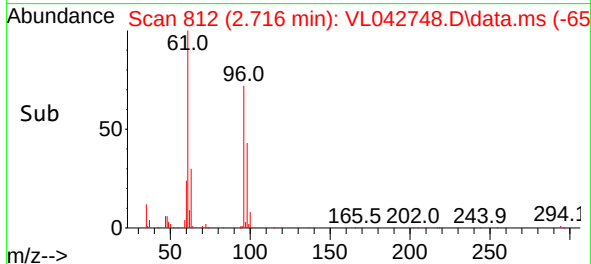
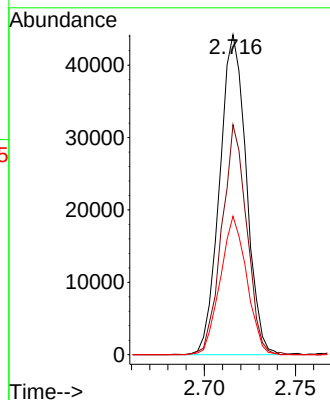
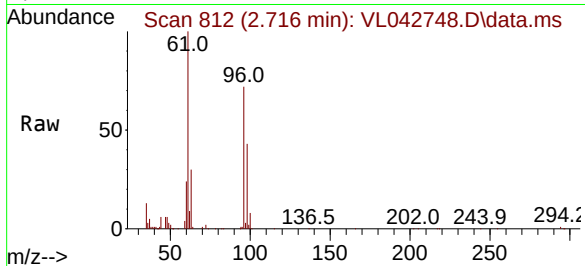




#31
 cis-1,2-Dichloroethene
 Concen: 2.053 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

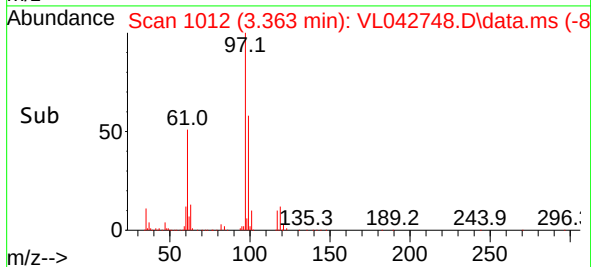
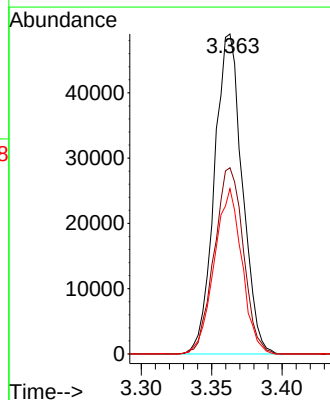
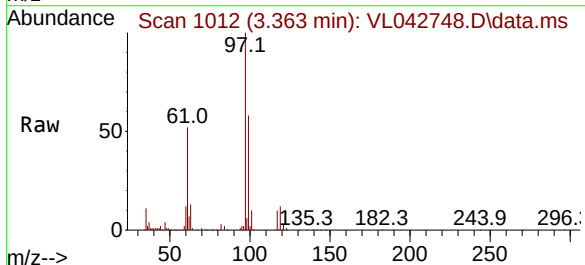
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

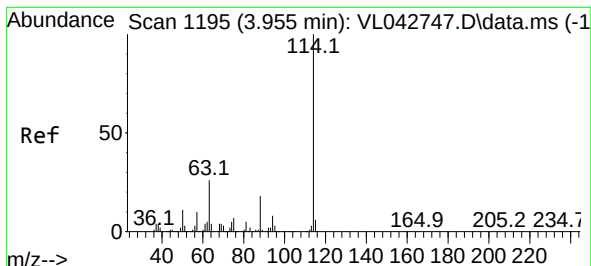
Tgt Ion: 61 Resp: 44860
 Ion Ratio Lower Upper
 61 100
 96 71.8 53.5 80.3
 98 43.3 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 1.976 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 97 Resp: 67608
 Ion Ratio Lower Upper
 97 100
 99 60.8 51.0 76.6
 61 51.3 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

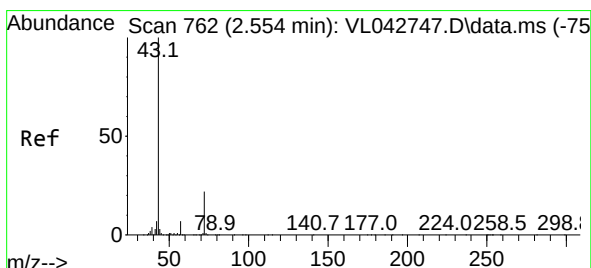
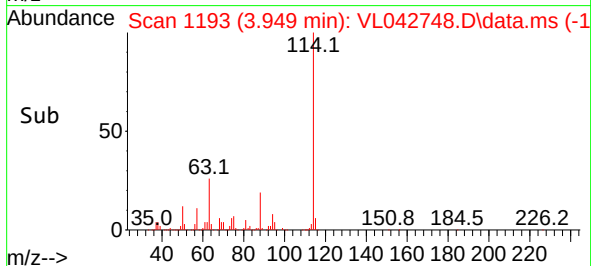
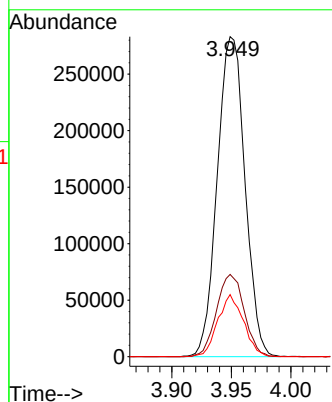
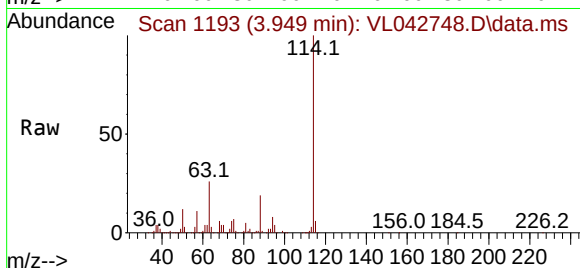
Tgt Ion:114 Resp: 457804

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 18.0 14.0 21.0



#34

2-Butanone

Concen: 2.149 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042748.D

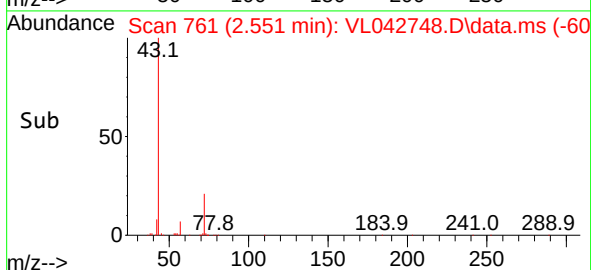
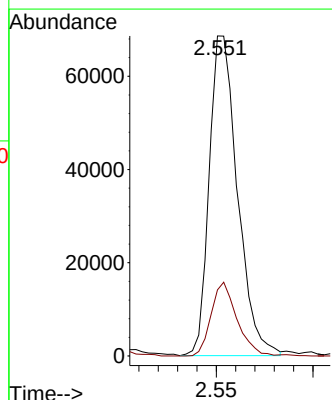
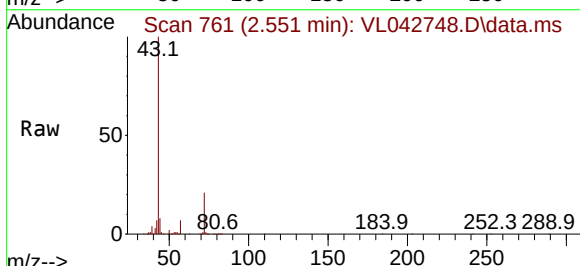
Acq: 23 Jul 2025 09:34

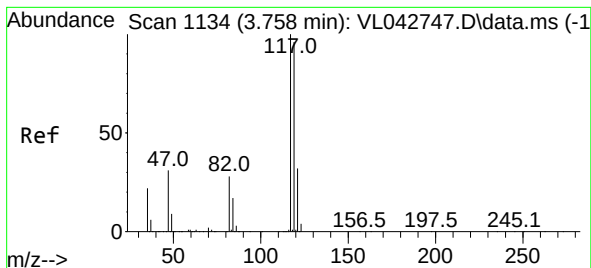
Tgt Ion: 43 Resp: 69674

Ion Ratio Lower Upper

43 100

72 21.2 17.4 26.0





#35

Carbon Tetrachloride

Concen: 1.979 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

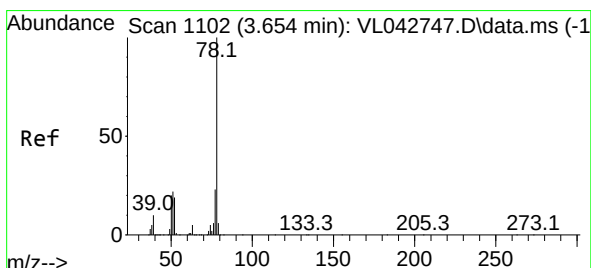
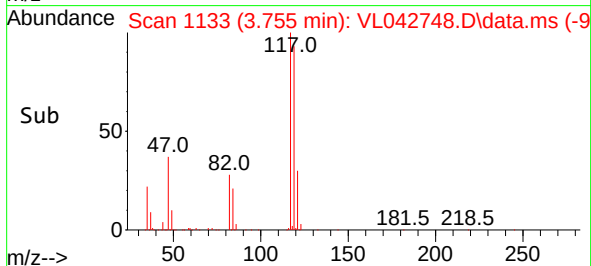
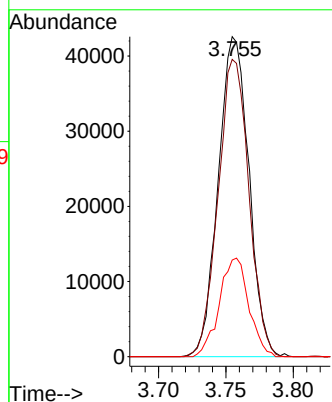
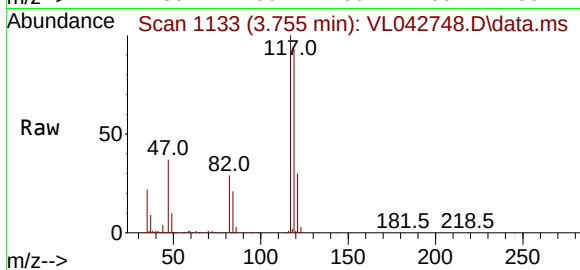
Tgt Ion:117 Resp: 67338

Ion Ratio Lower Upper

117 100

119 92.9 77.1 115.7

121 30.2 25.5 38.3



#36

Benzene

Concen: 2.101 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

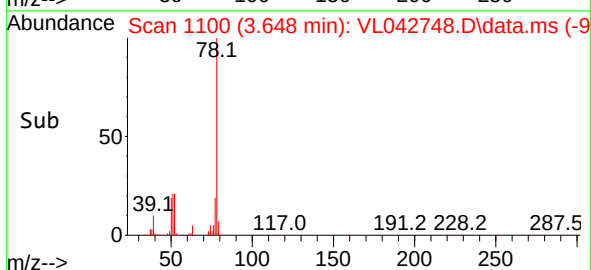
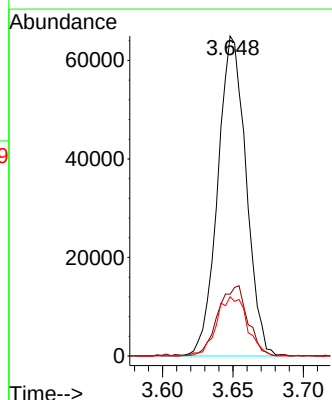
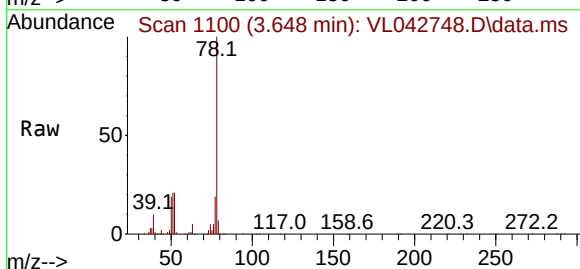
Tgt Ion: 78 Resp: 91141

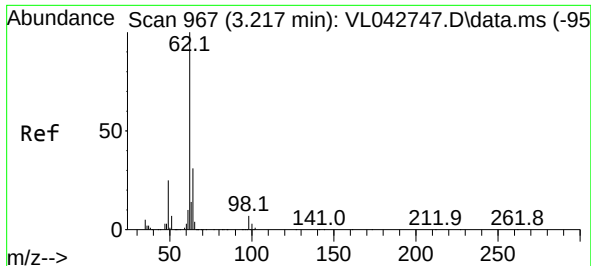
Ion Ratio Lower Upper

78 100

77 19.0 18.5 27.7

50 18.5 16.2 24.2





#37

1,2-Dichloroethane

Concen: 2.046 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_1

ClientSampleId :

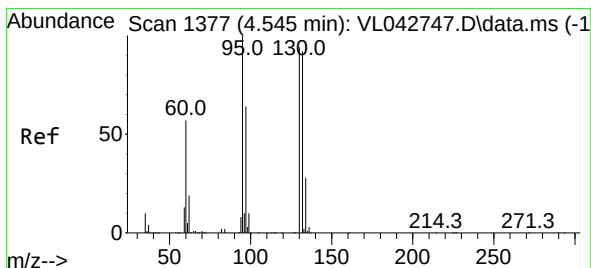
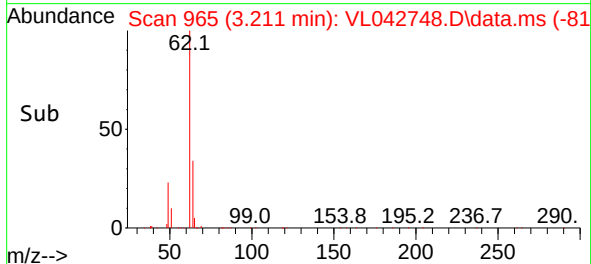
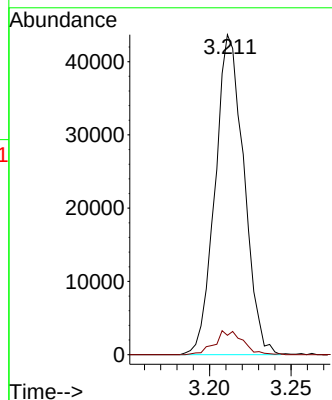
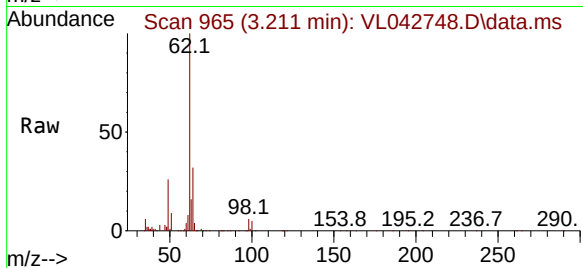
VSTDIC002

Tgt Ion: 62 Resp: 53482

Ion Ratio Lower Upper

62 100

98 7.3 5.2 7.8



#38

Trichloroethene

Concen: 1.946 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion:130 Resp: 40713

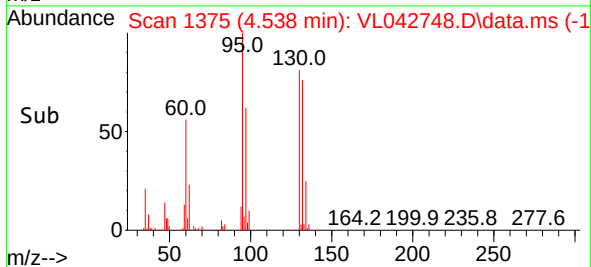
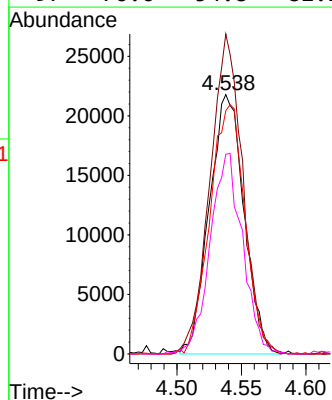
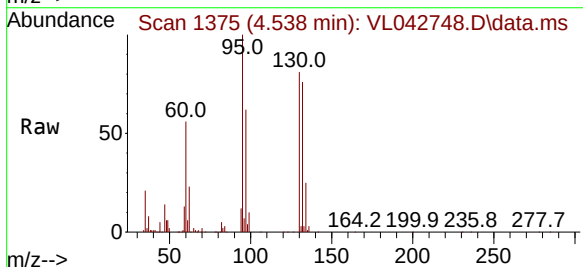
Ion Ratio Lower Upper

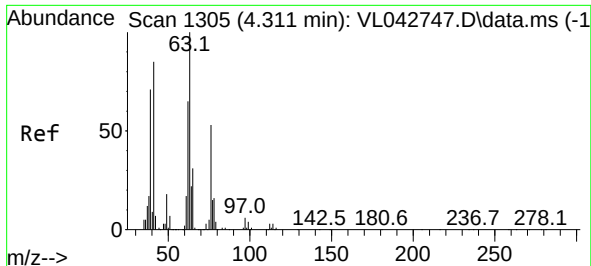
130 100

95 122.9 85.4 128.2

132 94.1 78.2 117.2

97 76.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 2.075 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC002

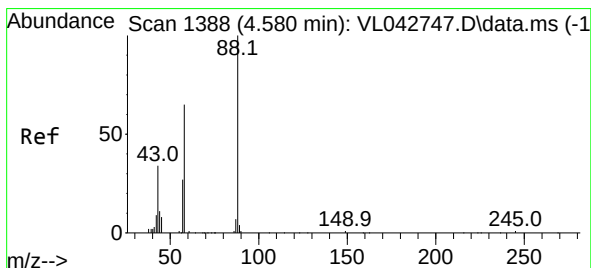
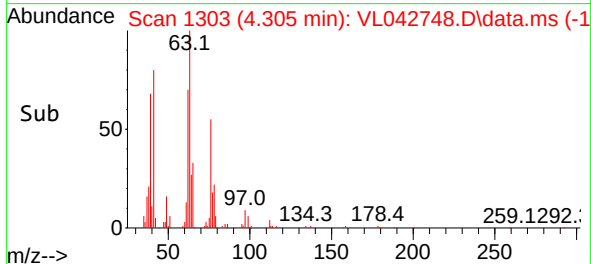
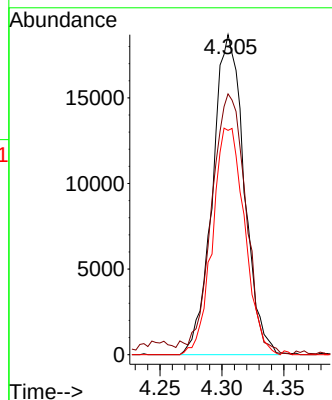
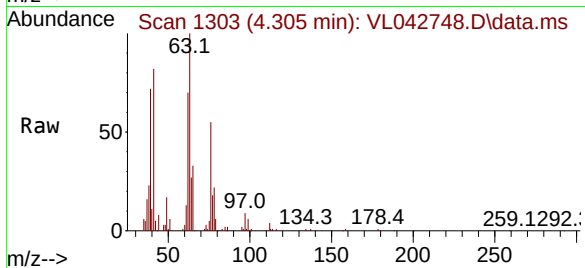
Tgt Ion: 63 Resp: 33225

Ion Ratio Lower Upper

63 100

41 80.8 68.2 102.4

62 70.1 52.0 78.0



#40

1,4-Dioxane

Concen: 1.953 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 88 Resp: 14747

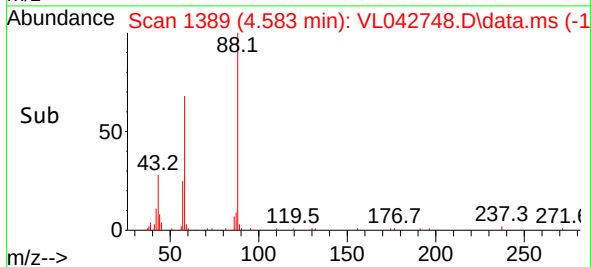
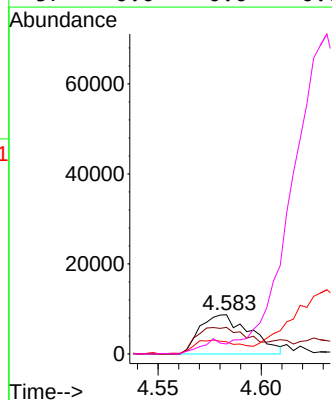
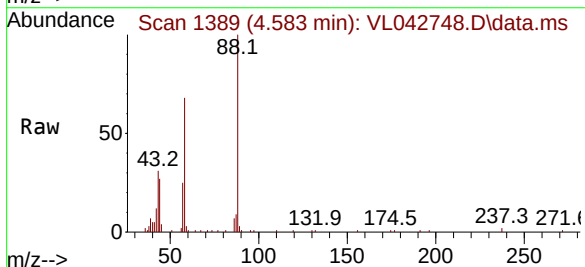
Ion Ratio Lower Upper

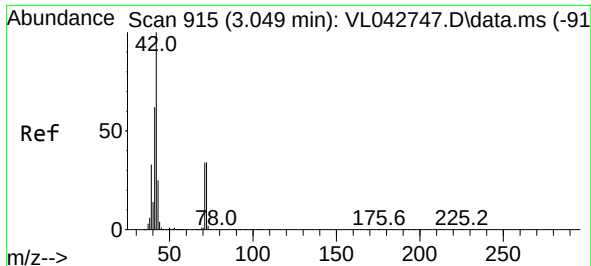
88 100

58 87.2 58.8 88.2

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

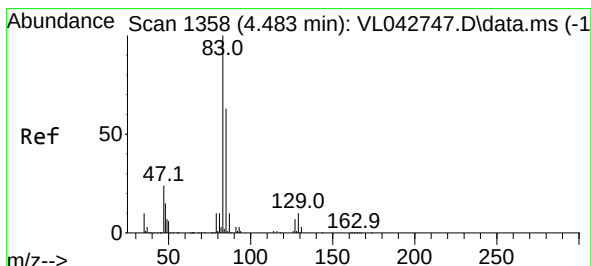
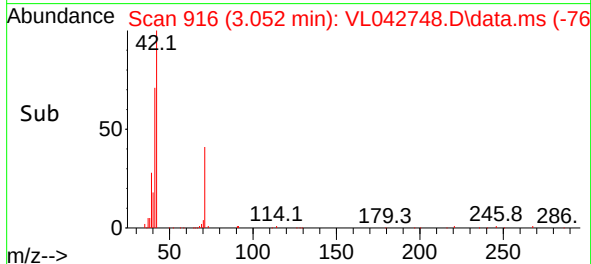
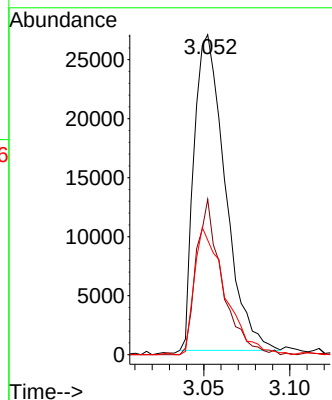
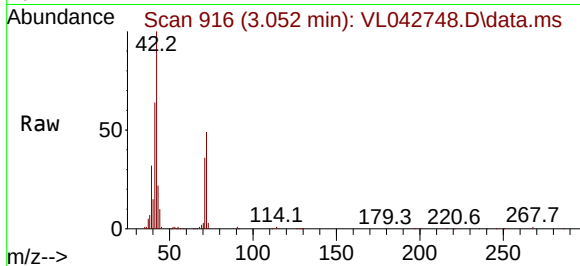




#41
Tetrahydrofuran
Concen: 2.064 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

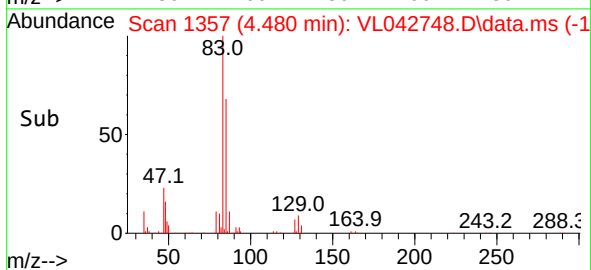
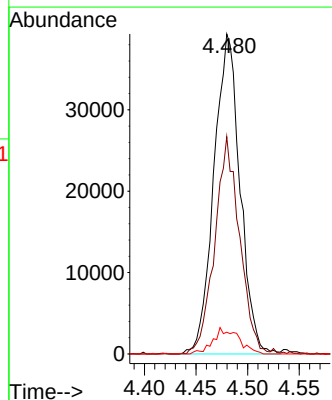
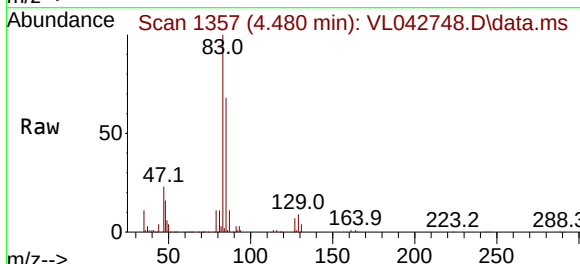
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

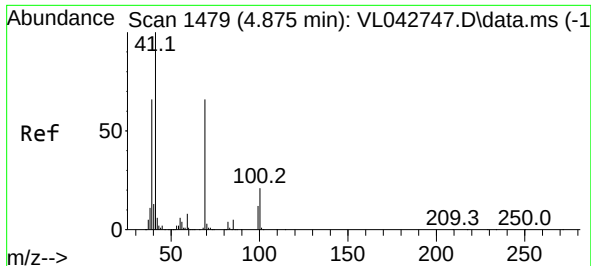
Tgt Ion: 42 Resp: 33618
Ion Ratio Lower Upper
42 100
72 41.3 30.9 46.3
71 40.4 28.6 43.0



#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 83 Resp: 69093
Ion Ratio Lower Upper
83 100
85 67.9 50.2 75.4
127 6.8 5.4 8.2

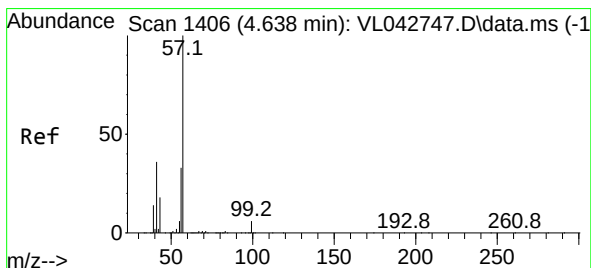
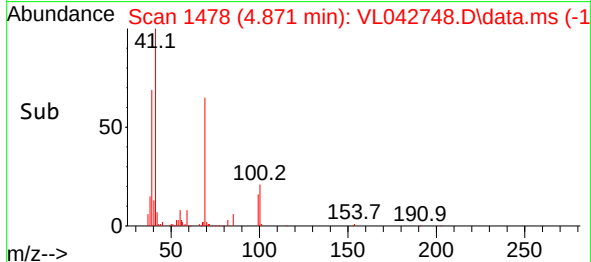
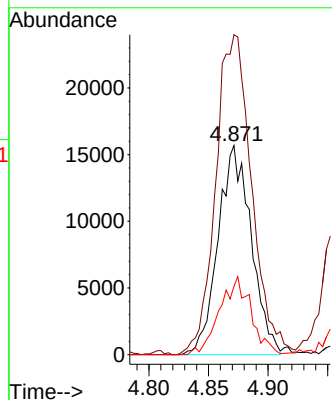
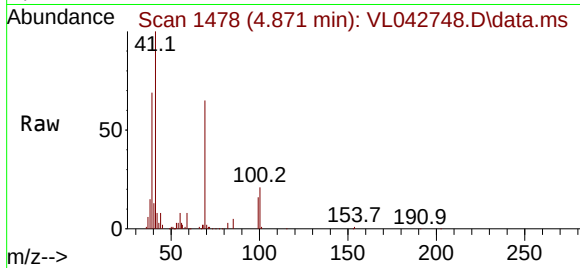




#43
Methyl Methacrylate
Concen: 1.967 ppbv
RT: 4.871 min Scan# 1479
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

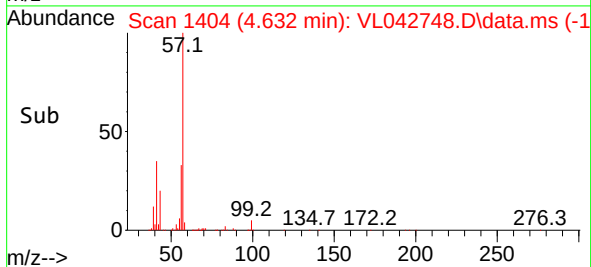
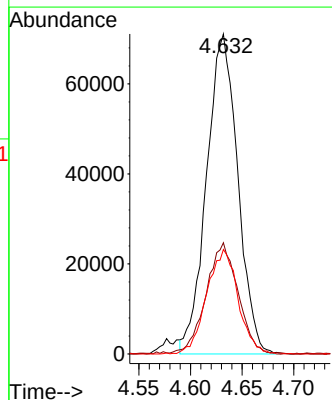
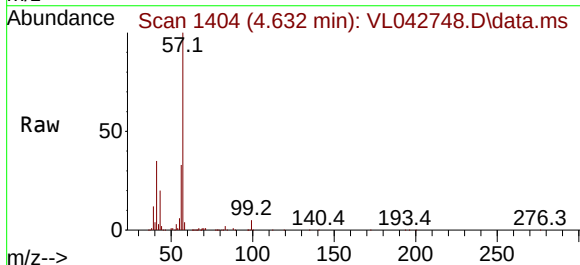
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

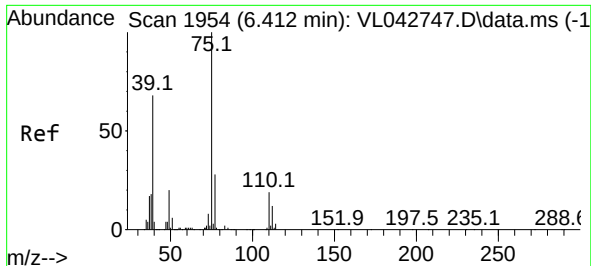
Tgt Ion: 69 Resp: 30336
Ion Ratio Lower Upper
69 100
41 164.3 125.7 188.5
100 35.5 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 2.115 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 149588
Ion Ratio Lower Upper
57 100
41 36.0 28.3 42.5
56 32.9 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 0.957 ppbv

RT: 6.399 min Scan# 1954

Delta R.T. -0.013 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

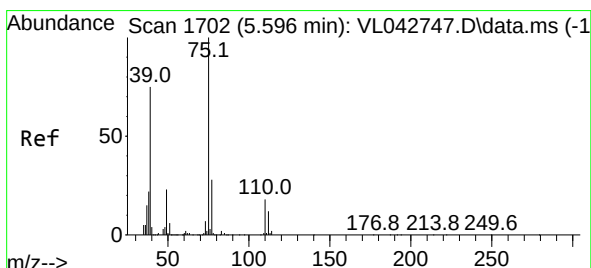
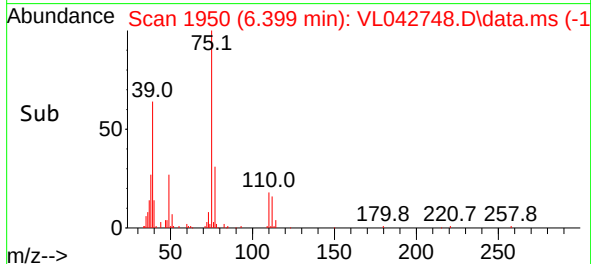
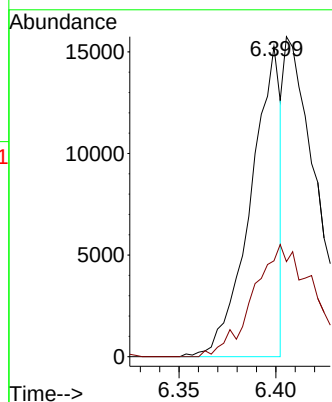
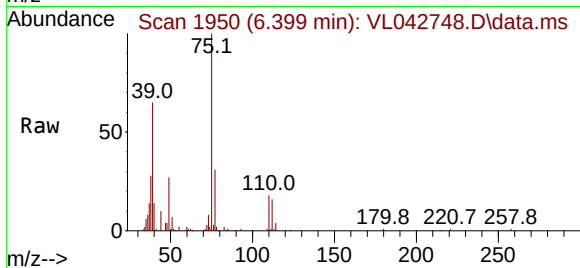
VSTDIC002

Tgt Ion: 75 Resp: 16554

Ion Ratio Lower Upper

75 100

77 30.9 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 1.084 ppbv

RT: 5.583 min Scan# 1698

Delta R.T. -0.013 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

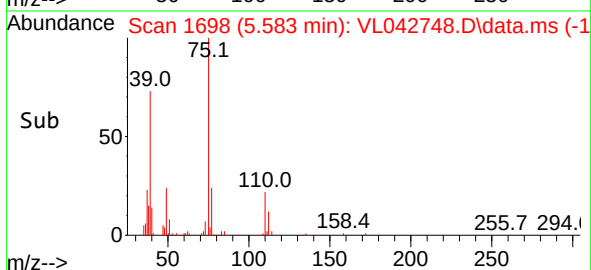
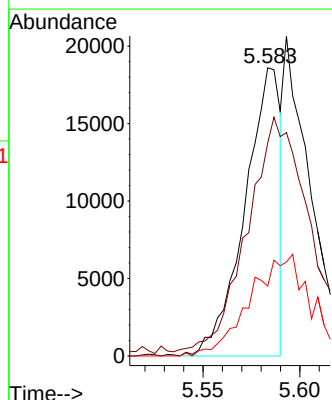
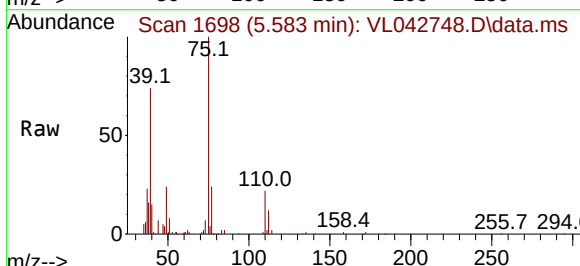
Tgt Ion: 75 Resp: 23760

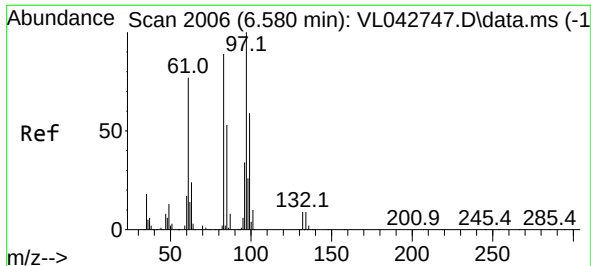
Ion Ratio Lower Upper

75 100

39 71.8 60.2 90.2

77 24.2 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 0.988 ppbv

RT: 6.567 min Scan# 2006

Delta R.T. -0.013 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 16867

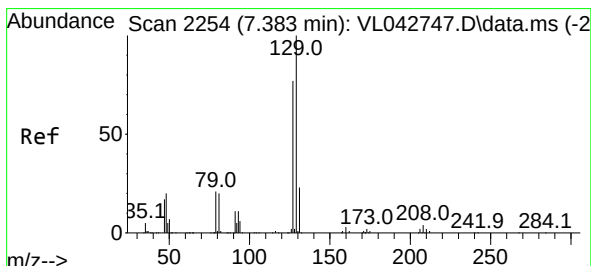
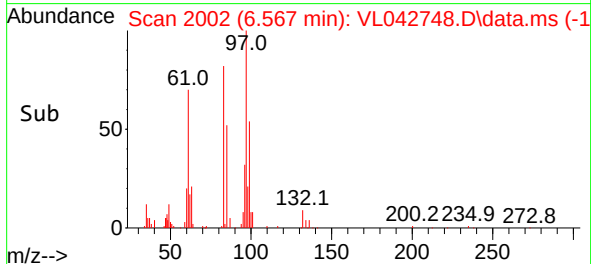
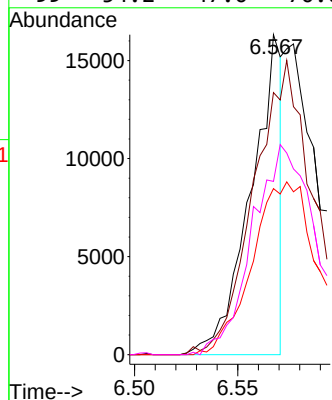
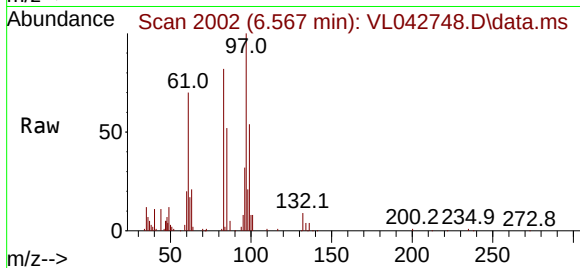
Ion Ratio Lower Upper

97 100

83 81.9 71.1 106.7

85 51.9 43.0 64.4

99 54.2 47.0 70.6



#48

Dibromochloromethane

Concen: 2.026 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042748.D

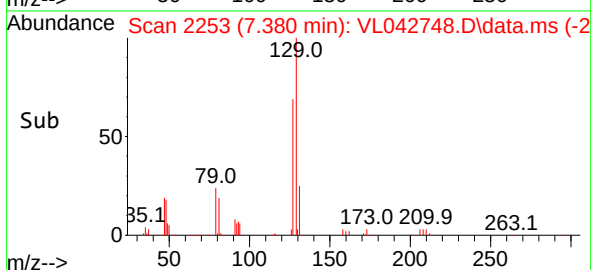
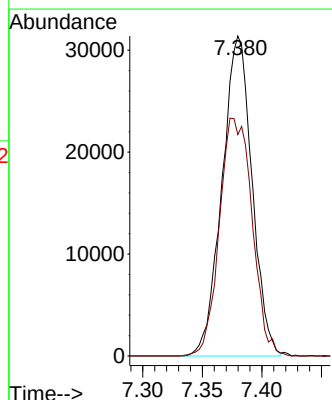
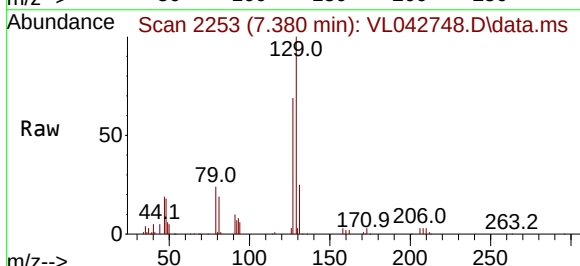
Acq: 23 Jul 2025 09:34

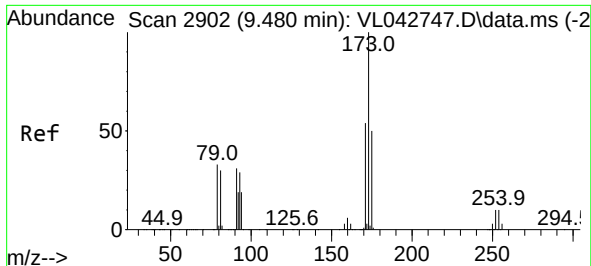
Tgt Ion: 129 Resp: 54906

Ion Ratio Lower Upper

129 100

127 80.8 38.7 116.1





#49

Bromoform

Concen: 2.003 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

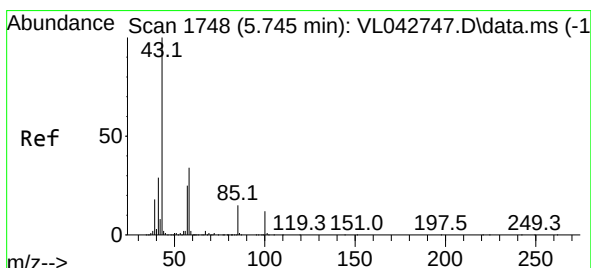
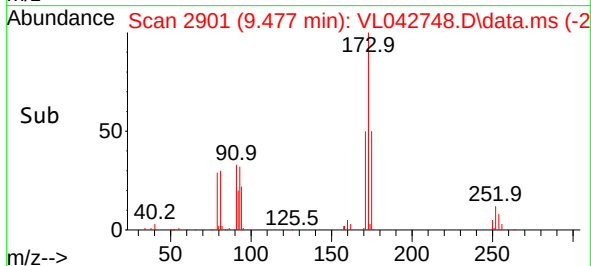
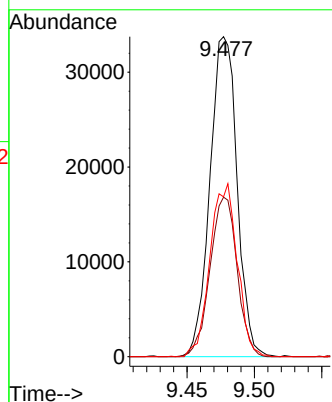
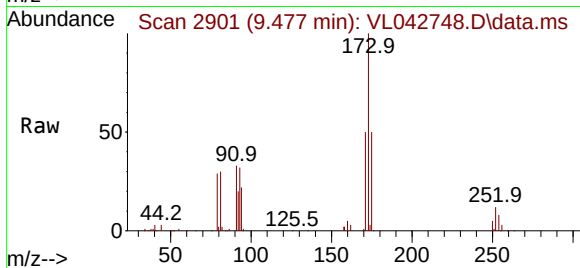
Tgt Ion:173 Resp: 47340

Ion Ratio Lower Upper

173 100

175 49.7 38.4 57.6

171 54.2 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 0.966 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. -0.003 min

Lab File: VL042748.D

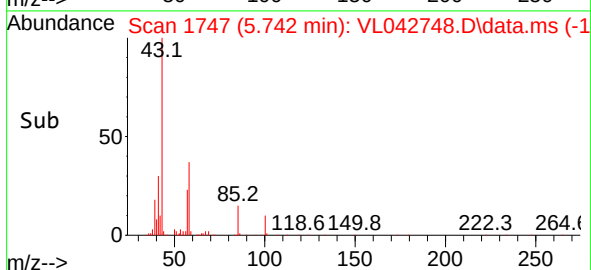
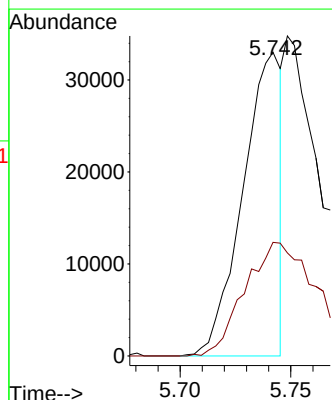
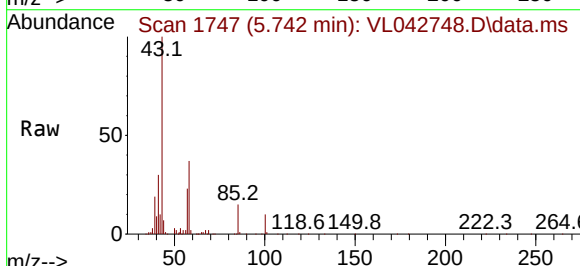
Acq: 23 Jul 2025 09:34

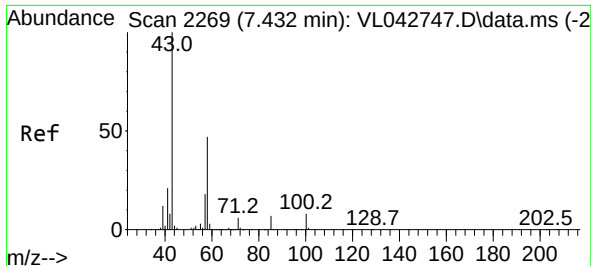
Tgt Ion: 43 Resp: 39913

Ion Ratio Lower Upper

43 100

58 76.3 27.8 41.8#

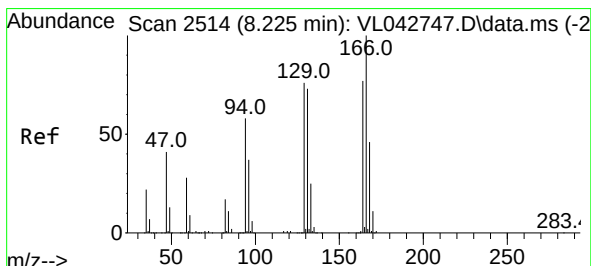
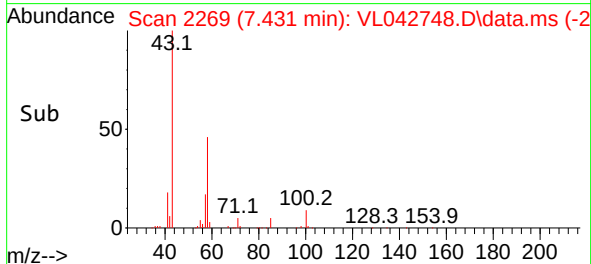
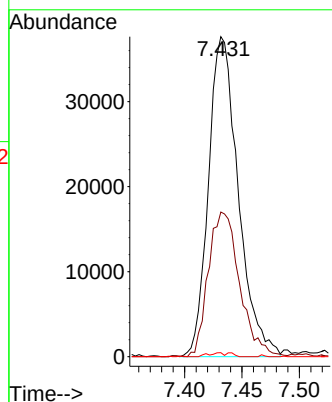
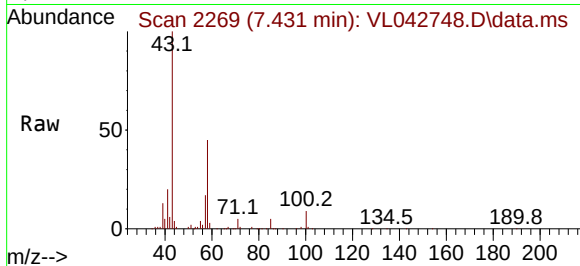




#51
2-Hexanone
Concen: 2.157 ppbv
RT: 7.431 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

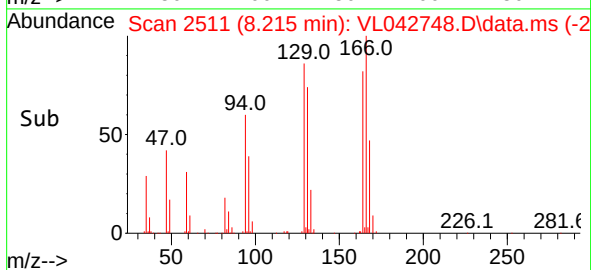
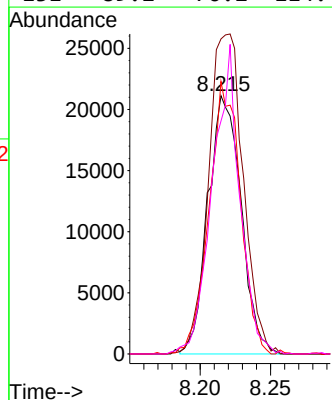
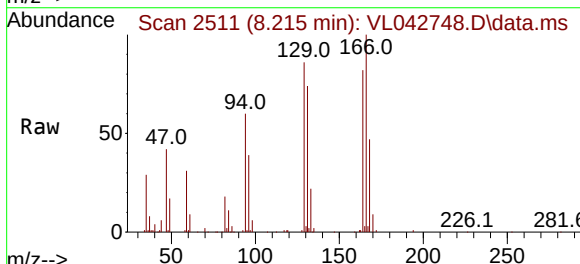
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

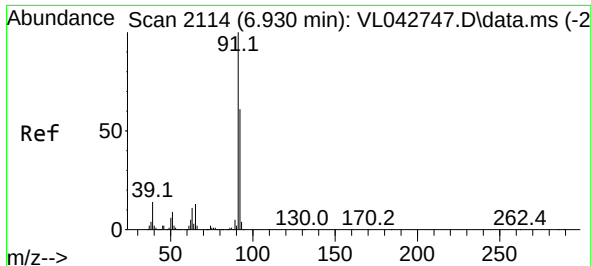
Tgt Ion: 43 Resp: 68093
Ion Ratio Lower Upper
43 100
58 48.2 38.0 57.0
98 1.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 1.917 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 164 Resp: 34568
Ion Ratio Lower Upper
164 100
166 121.7 104.0 156.0
129 103.9 79.2 118.8
131 89.2 76.2 114.4

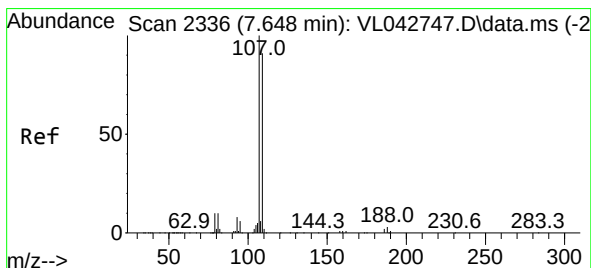
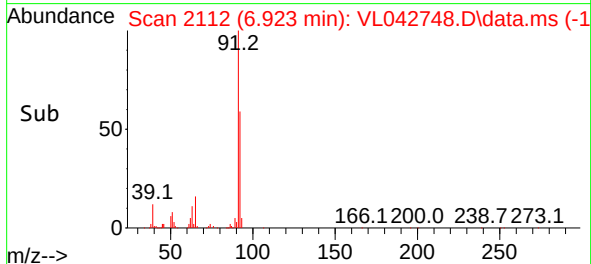
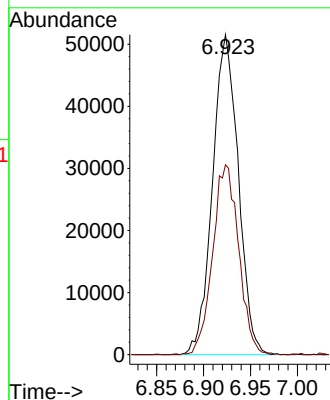
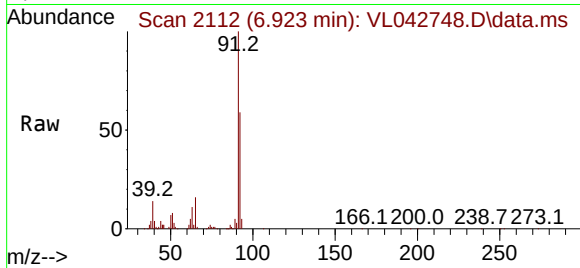




#53
Toluene
Concen: 2.111 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

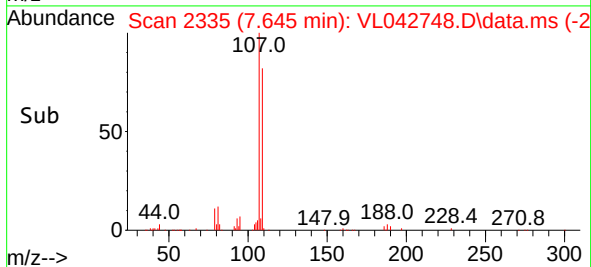
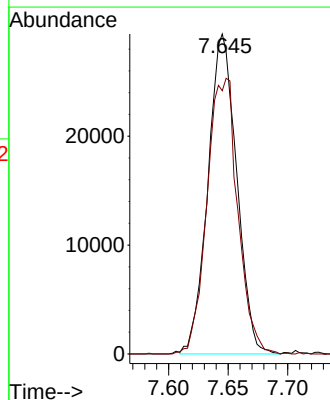
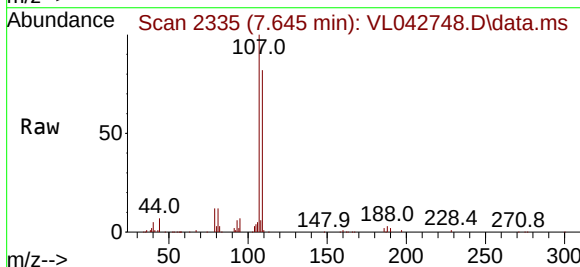
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

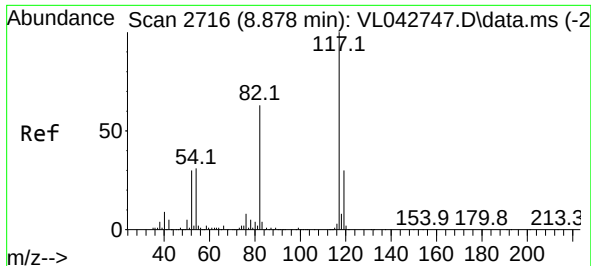
Tgt Ion: 91 Resp: 98346
Ion Ratio Lower Upper
91 100
92 59.8 48.0 72.0



#54
1,2-Dibromoethane
Concen: 2.042 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 107 Resp: 49346
Ion Ratio Lower Upper
107 100
109 82.2 72.7 109.1

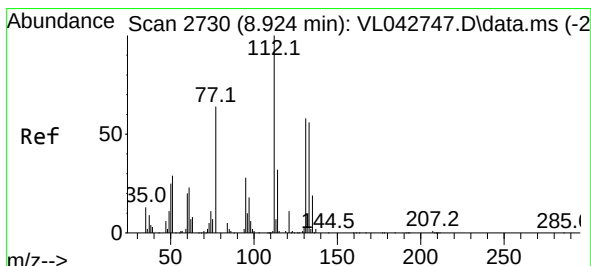
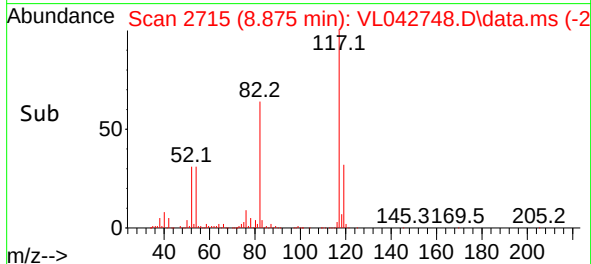
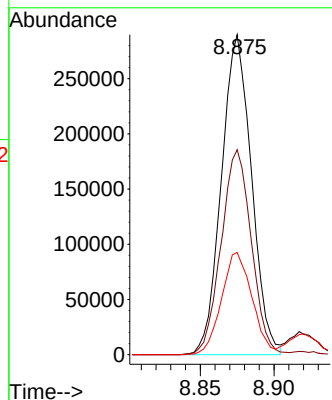
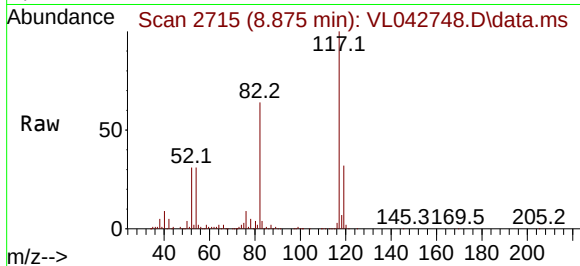




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

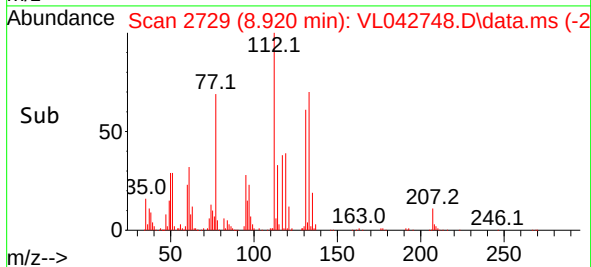
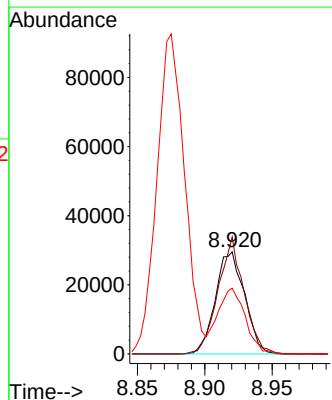
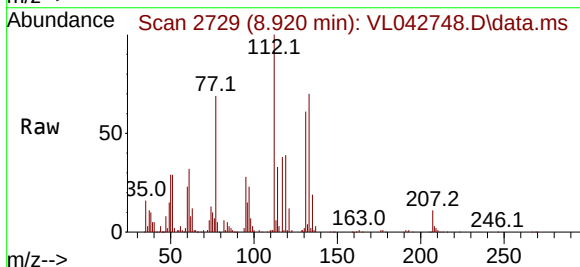
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

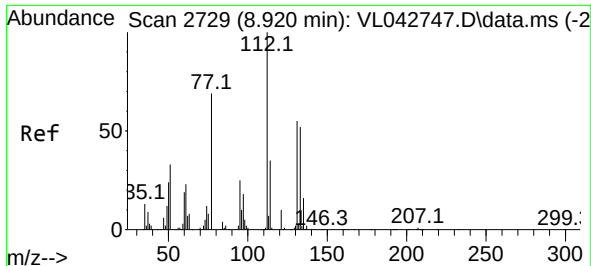
Tgt Ion:117 Resp: 410740
Ion Ratio Lower Upper
117 100
82 65.2 53.3 79.9
119 33.2 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 2.079 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:131 Resp: 44409
Ion Ratio Lower Upper
131 100
133 102.1 76.8 115.2
119 54.2 49.7 74.5

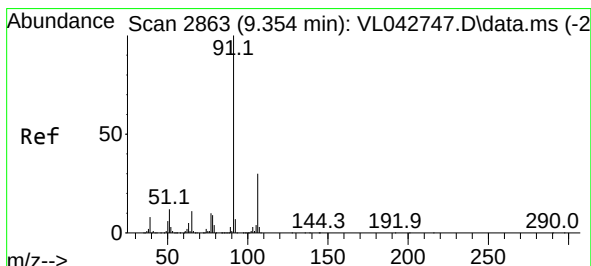
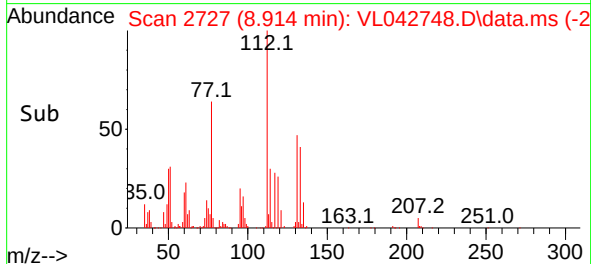
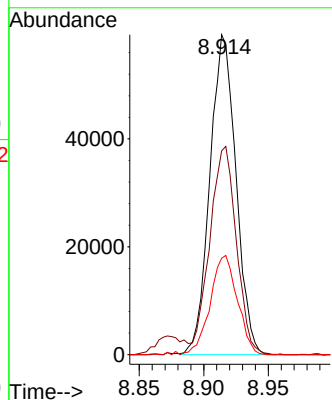
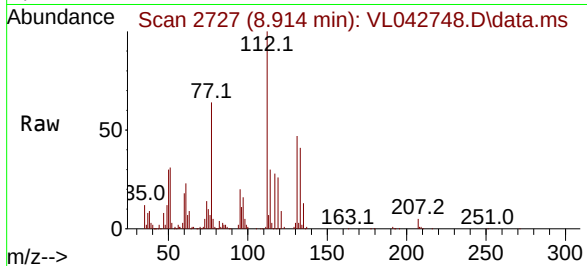




#57
Chlorobenzene
Concen: 2.101 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

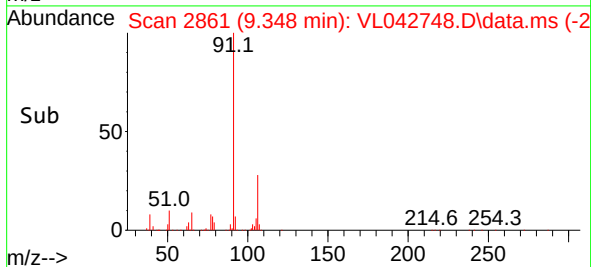
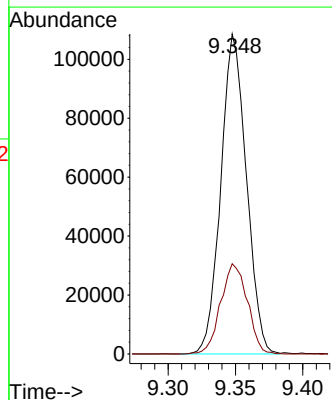
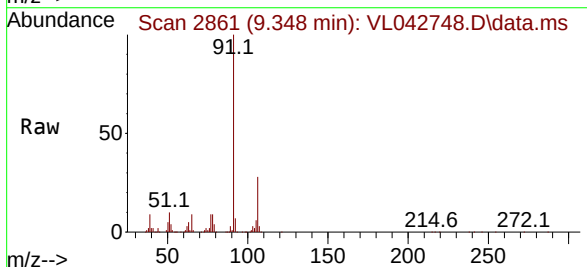
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

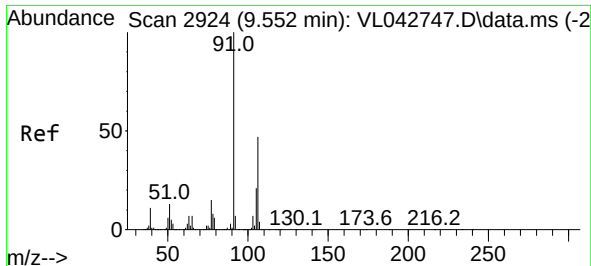
Tgt Ion:112 Resp: 83503
Ion Ratio Lower Upper
112 100
77 63.5 56.4 84.6
114 30.2 31.2 38.2#



#58
Ethyl Benzene
Concen: 2.208 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 143251
Ion Ratio Lower Upper
91 100
106 28.2 23.8 35.6





#59

m/p-Xylene

Concen: 1.758 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

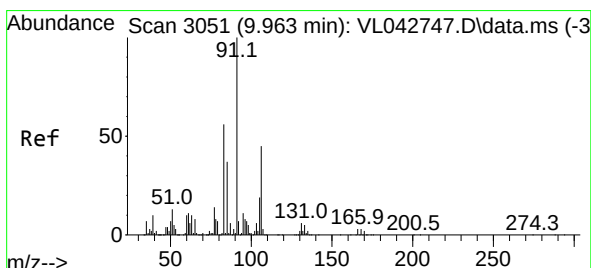
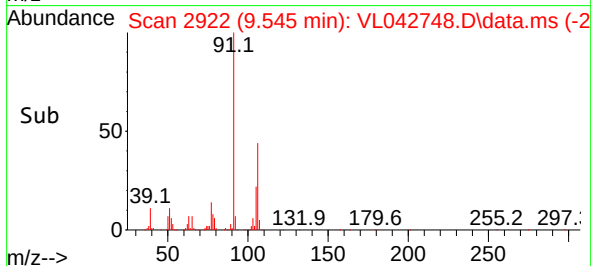
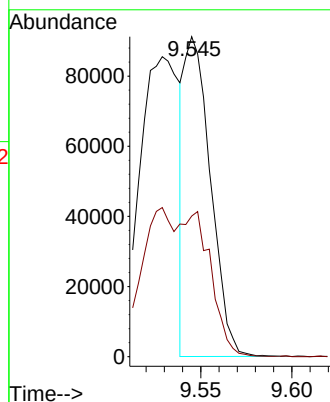
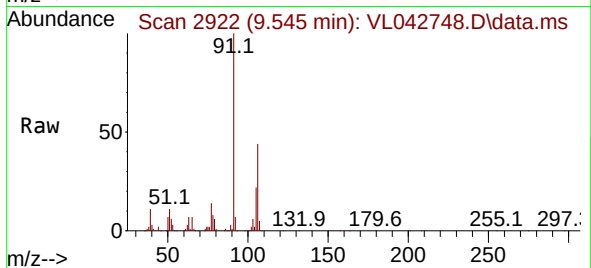
VSTDICC002

Tgt Ion: 91 Resp: 91147

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 2.190 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.007 min

Lab File: VL042748.D

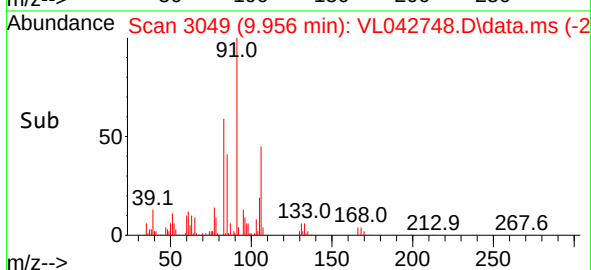
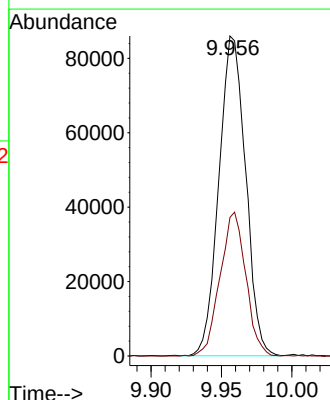
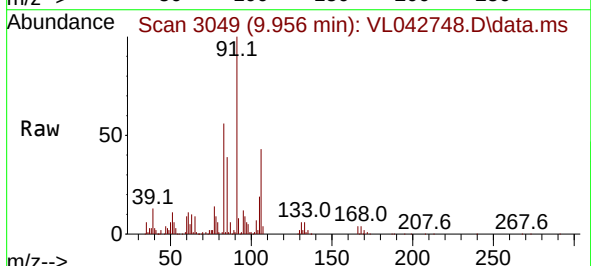
Acq: 23 Jul 2025 09:34

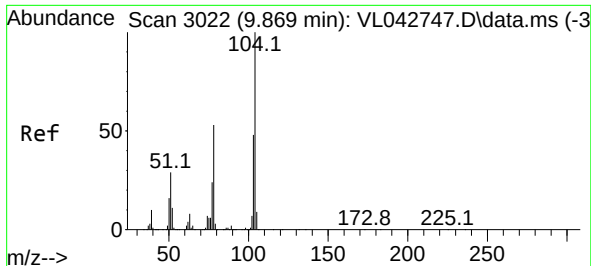
Tgt Ion: 91 Resp: 113462

Ion Ratio Lower Upper

91 100

106 43.4 22.0 66.0





#61

Styrene

Concen: 2.081 ppbv

RT: 9.865 min Scan# 3022

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

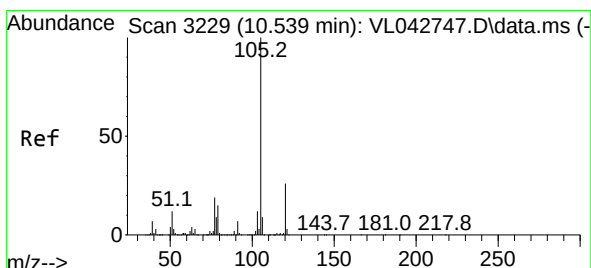
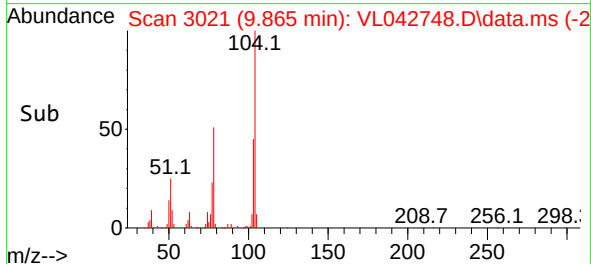
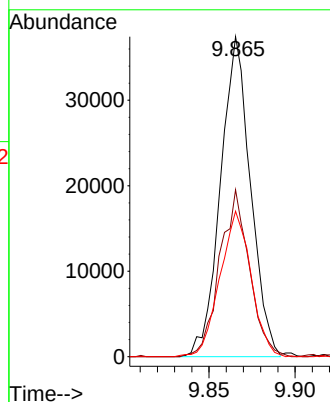
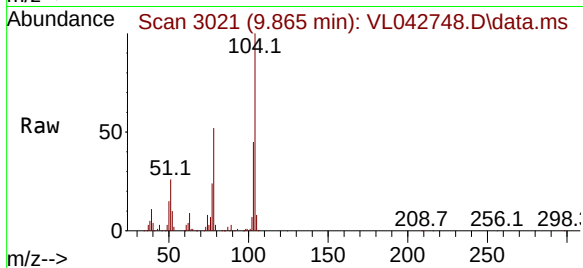
Tgt Ion:104 Resp: 45351

Ion Ratio Lower Upper

104 100

78 51.7 41.5 62.3

103 47.1 37.5 56.3



#62

Isopropylbenzene

Concen: 2.187 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042748.D

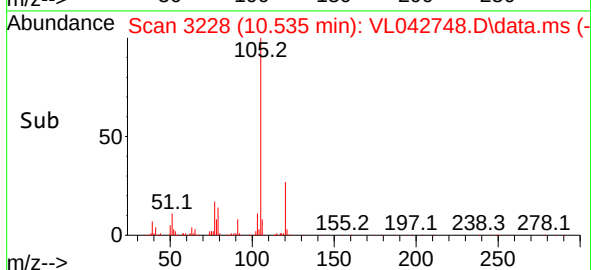
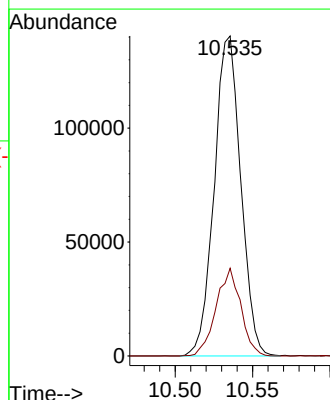
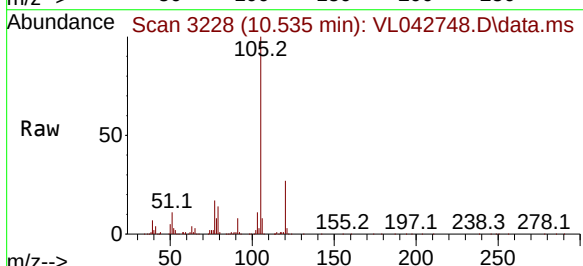
Acq: 23 Jul 2025 09:34

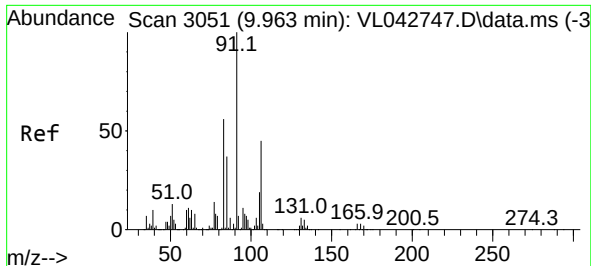
Tgt Ion:105 Resp: 167108

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

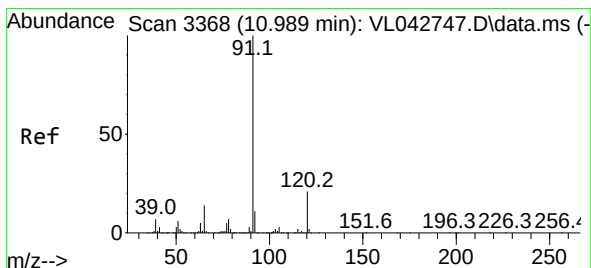
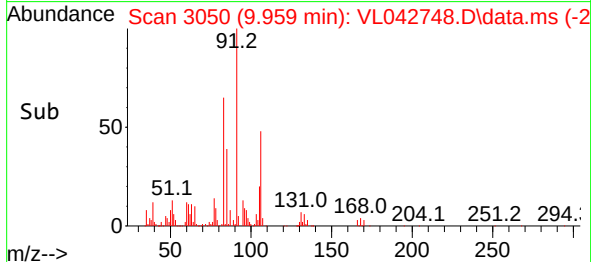
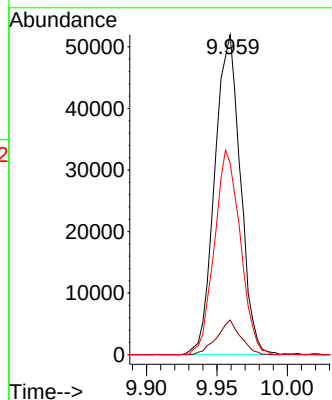
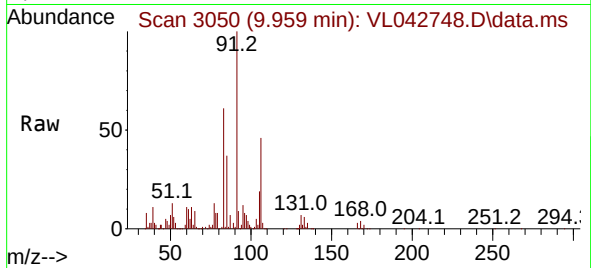




#63
1,1,2,2-Tetrachloroethane
Concen: 1.954 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

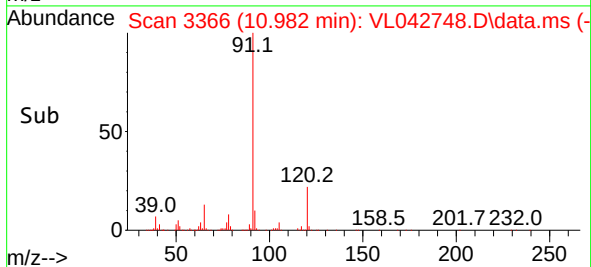
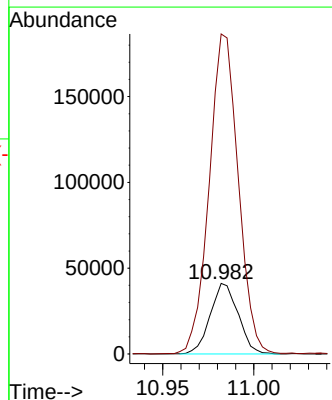
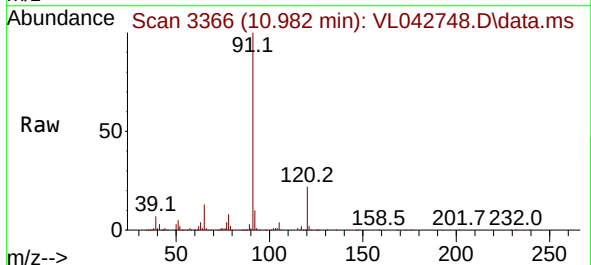
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

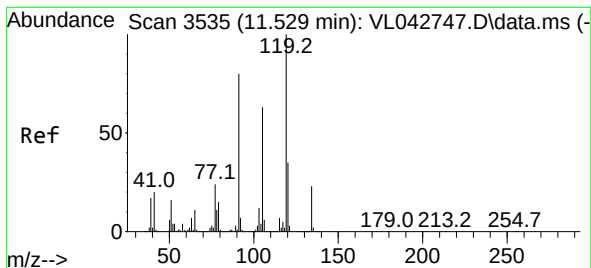
Tgt Ion: 83 Resp: 65928
Ion Ratio Lower Upper
83 100
131 10.1 5.0 15.0
85 64.7 32.6 97.7



#64
n-propylbenzene
Concen: 2.198 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 120 Resp: 43789
Ion Ratio Lower Upper
120 100
91 472.1 372.7 559.1





#65

tert-Butylbenzene

Concen: 2.226 ppbv

RT: 11.526 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

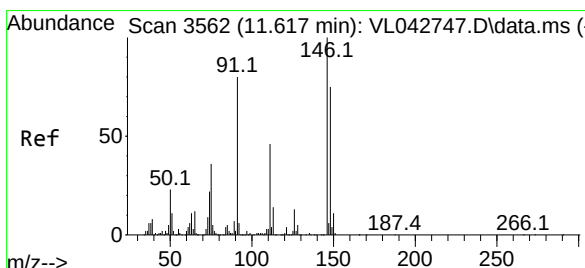
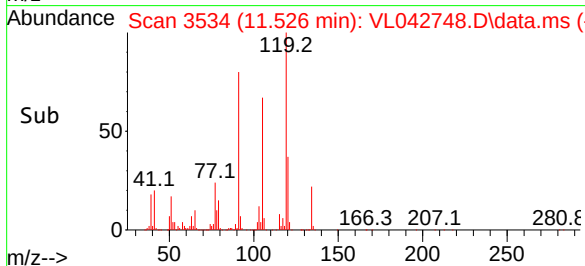
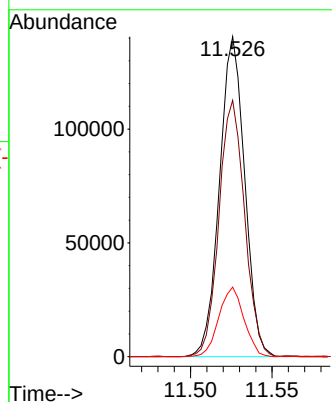
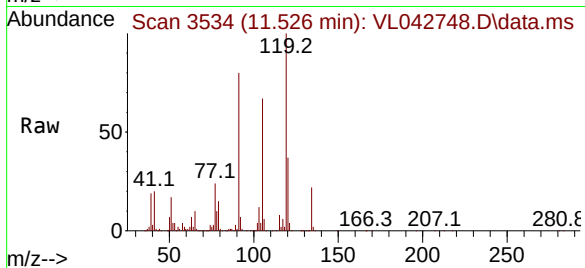
Tgt Ion:119 Resp: 151081

Ion Ratio Lower Upper

119 100

91 81.8 64.0 96.0

134 21.7 17.3 25.9



#66

Benzyl Chloride

Concen: 1.882 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

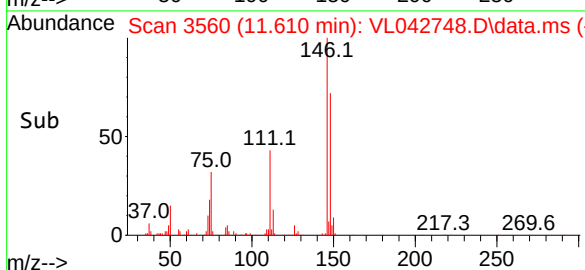
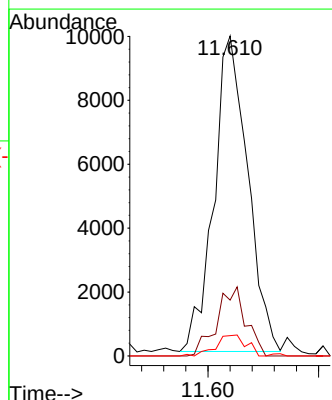
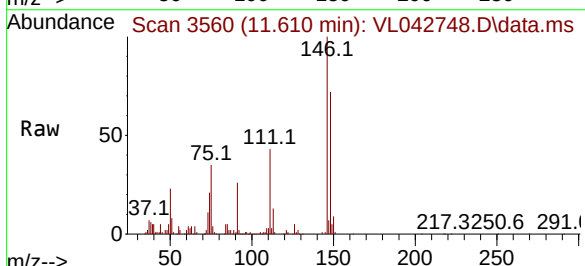
Tgt Ion: 91 Resp: 10485

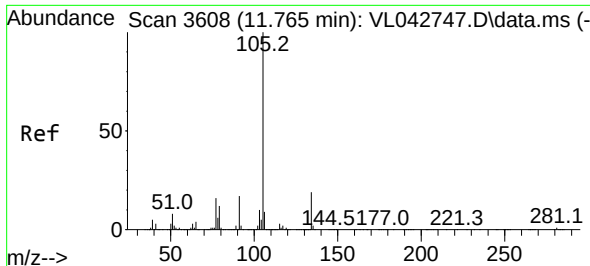
Ion Ratio Lower Upper

91 100

126 18.8 14.4 21.6

128 6.2 5.2 7.8

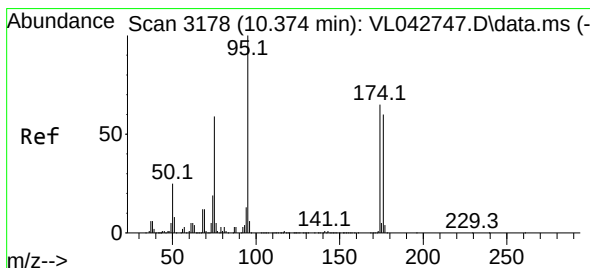
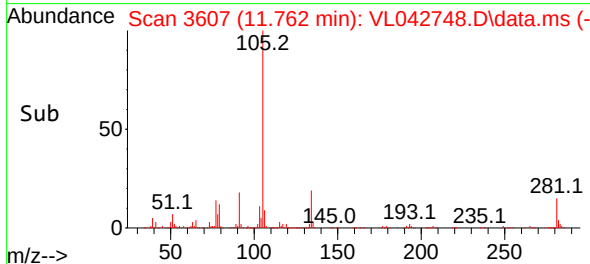
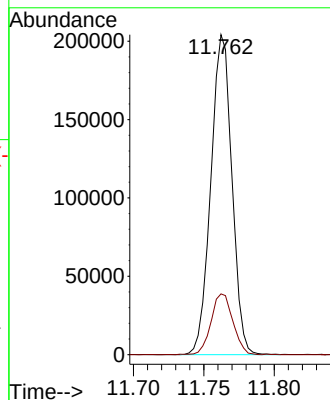
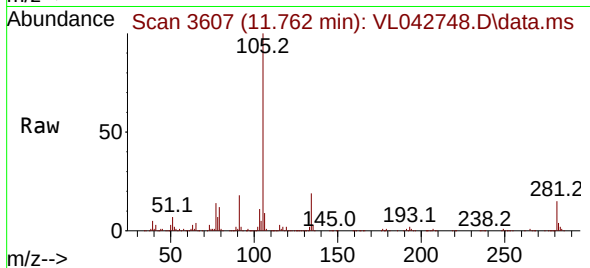




#67
 sec-Butylbenzene
 Concen: 2.206 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

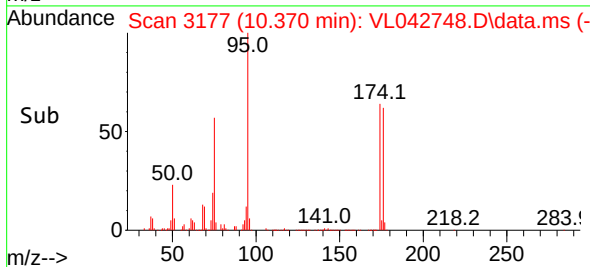
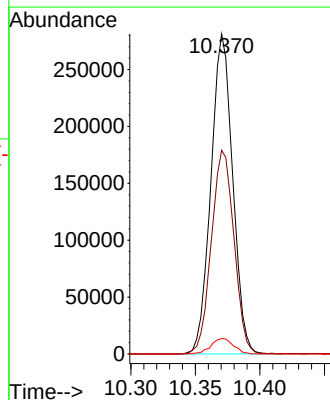
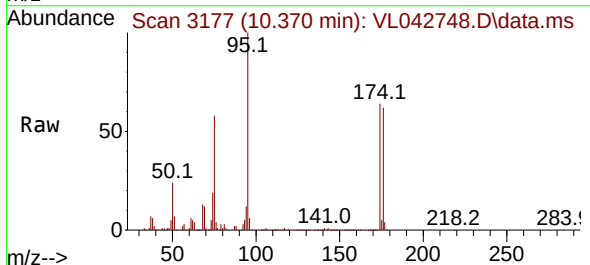
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

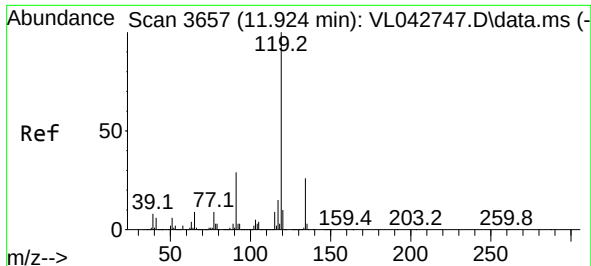
Tgt Ion:105 Resp: 212925
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.160 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 95 Resp: 330476
 Ion Ratio Lower Upper
 95 100
 174 66.2 53.8 80.6
 175 5.0 4.0 6.0

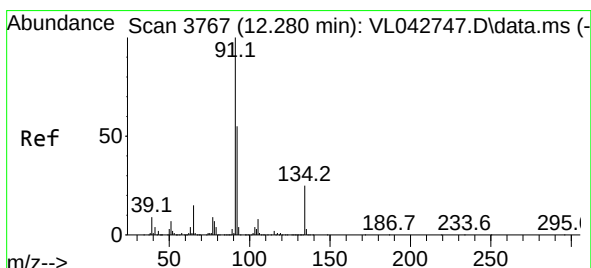
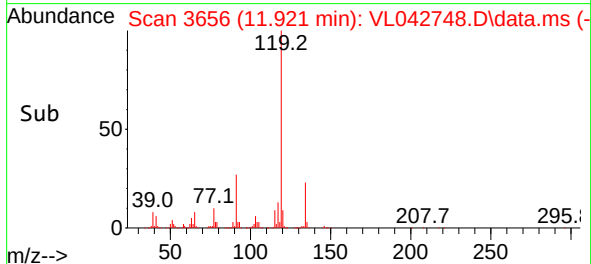
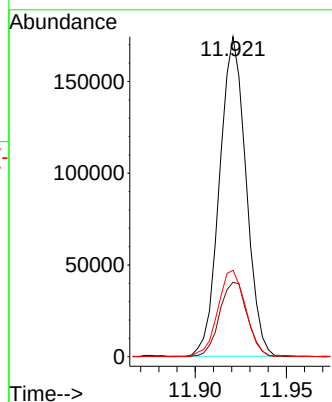
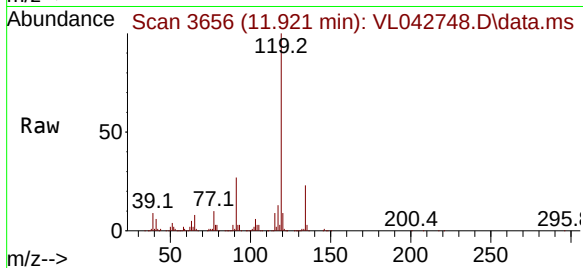




#69
p-Isopropyltoluene
Concen: 2.230 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

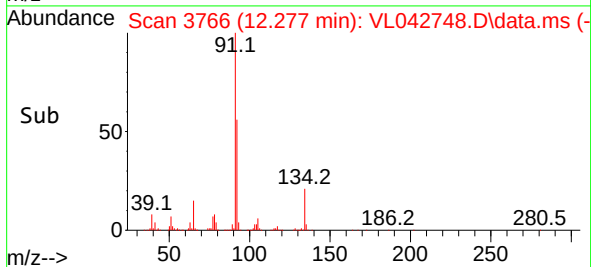
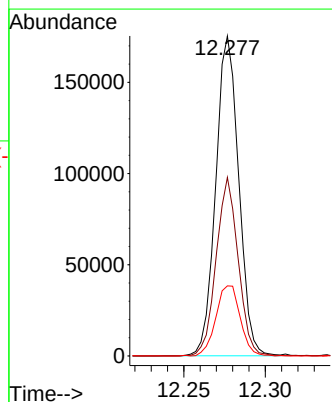
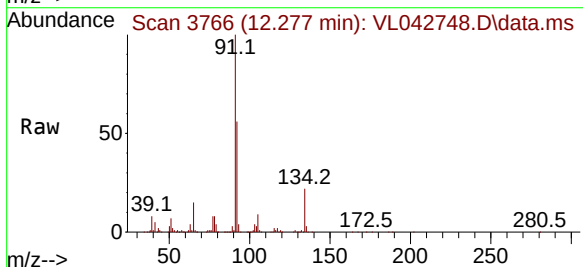
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

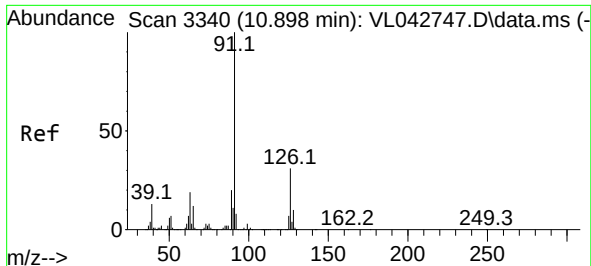
Tgt Ion:119 Resp: 175553
Ion Ratio Lower Upper
119 100
134 24.7 20.6 31.0
91 29.0 23.2 34.8



#70
n-Butylbenzene
Concen: 2.258 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 171675
Ion Ratio Lower Upper
91 100
92 53.7 43.4 65.2
134 23.4 19.6 29.4

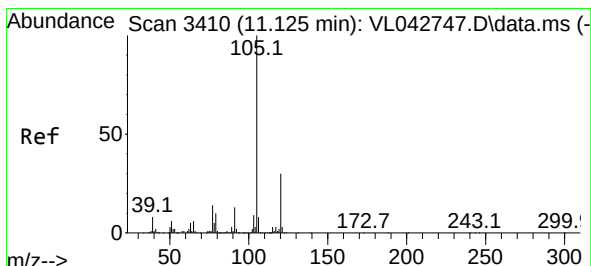
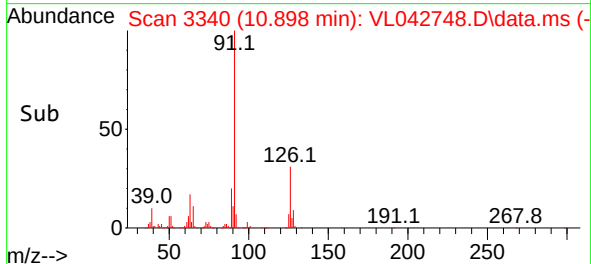
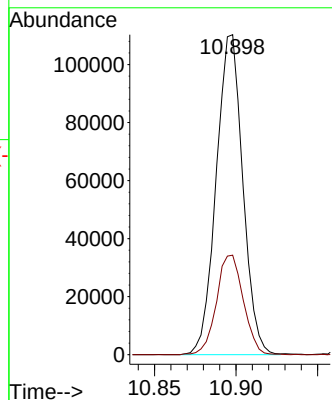
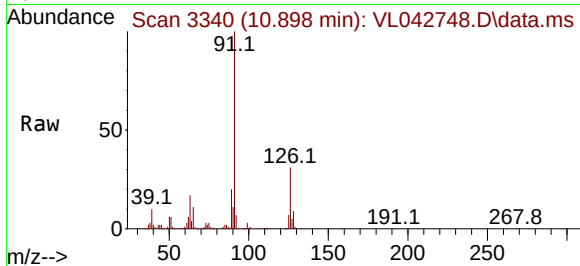




#71
2-Chlorotoluene
Concen: 2.134 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

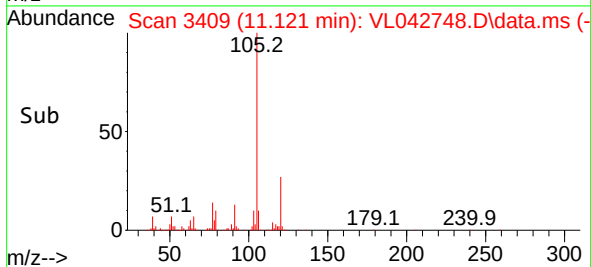
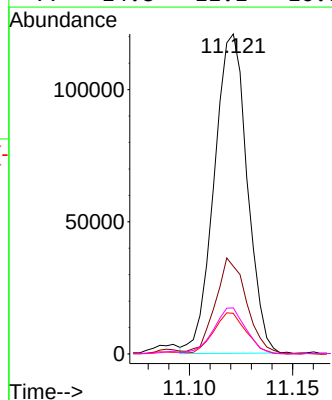
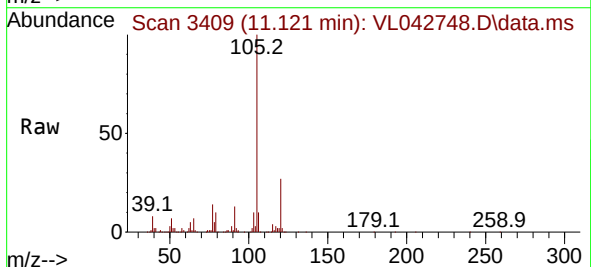
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

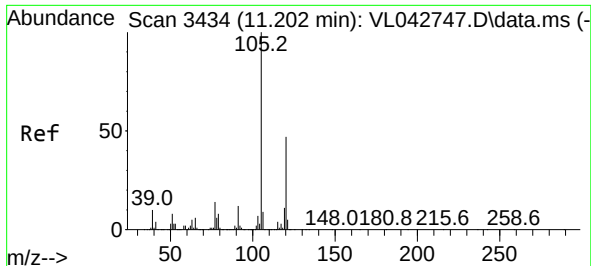
Tgt Ion: 91 Resp: 125039
Ion Ratio Lower Upper
91 100
126 31.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 2.168 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 134097
Ion Ratio Lower Upper
105 100
120 29.7 24.4 36.6
91 13.7 10.6 15.8
77 14.8 11.1 16.7

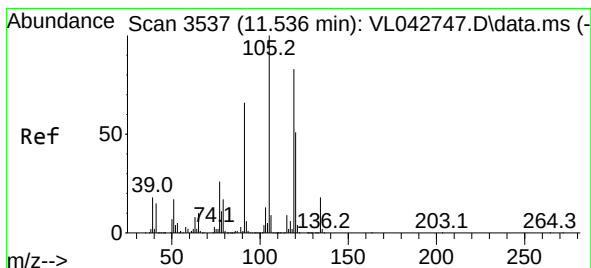
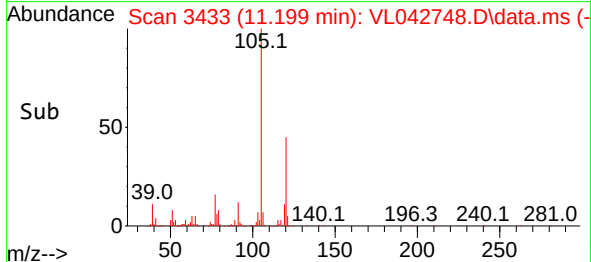
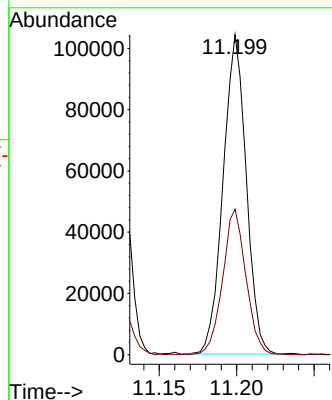
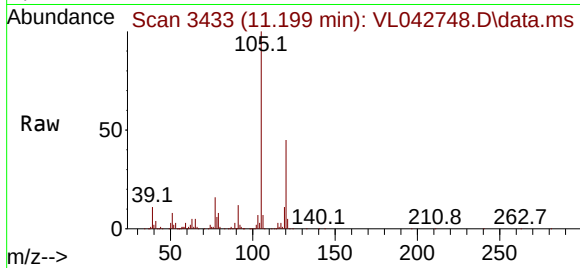




#73
1,3,5-Trimethylbenzene
Concen: 2.122 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

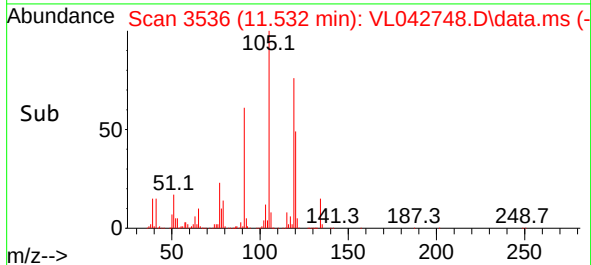
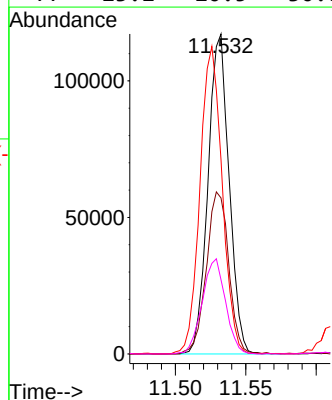
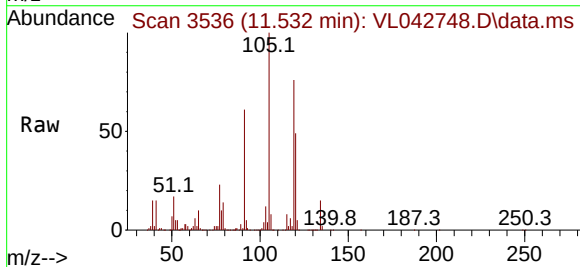
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

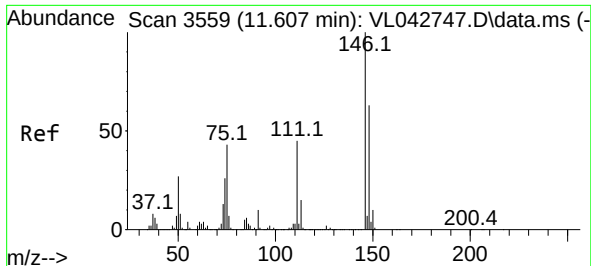
Tgt Ion:105 Resp: 108055
Ion Ratio Lower Upper
105 100
120 45.6 37.8 56.8



#74
1,2,4-Trimethylbenzene
Concen: 2.201 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 122295
Ion Ratio Lower Upper
105 100
120 48.6 40.8 61.2
91 60.6 53.0 79.4
77 23.2 20.5 30.7

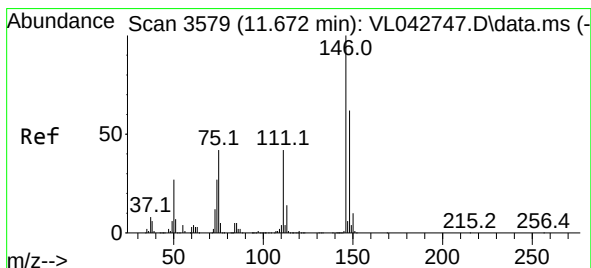
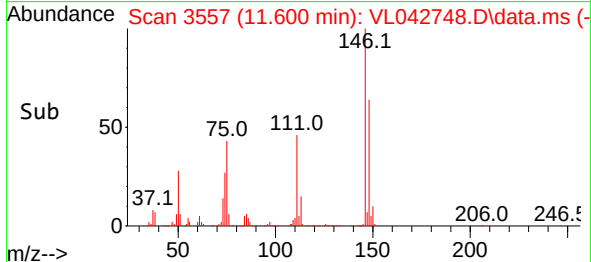
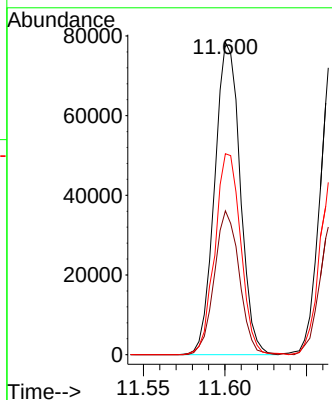
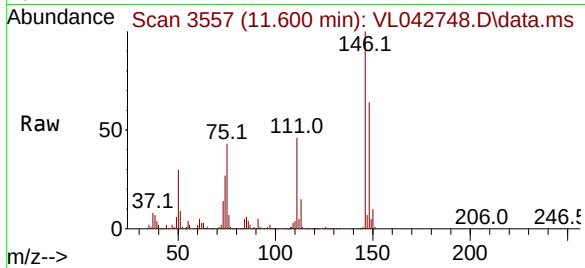




#75
1,3-Dichlorobenzene
Concen: 2.188 ppbv
RT: 11.600 min Scan# 3559
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

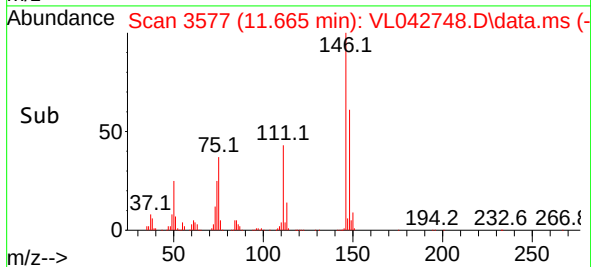
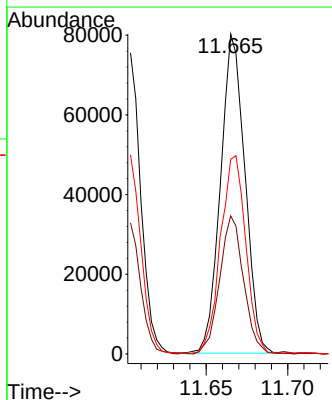
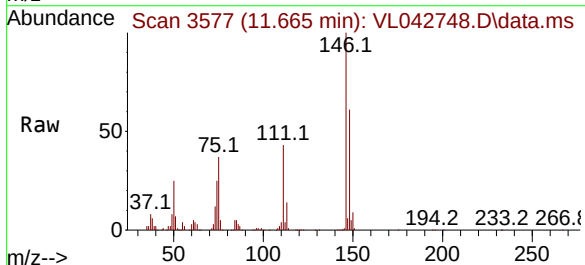
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

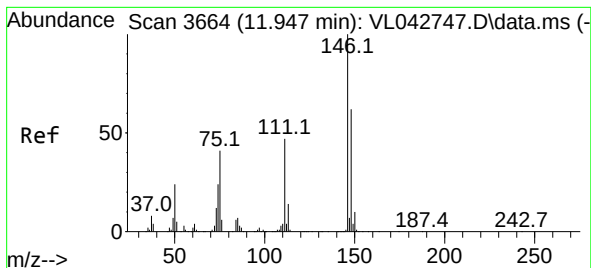
Tgt Ion:146 Resp: 85254
Ion Ratio Lower Upper
146 100
111 45.0 22.7 68.0
148 65.2 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 2.189 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 83440
Ion Ratio Lower Upper
146 100
111 42.6 21.4 64.2
148 64.9 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 2.150 ppbv

RT: 11.943 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

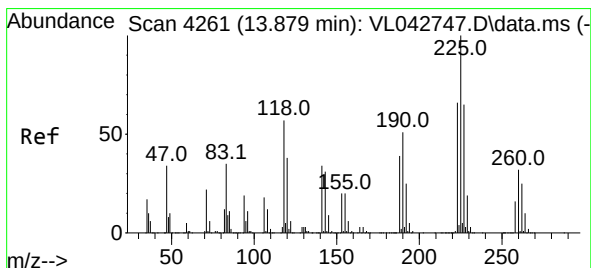
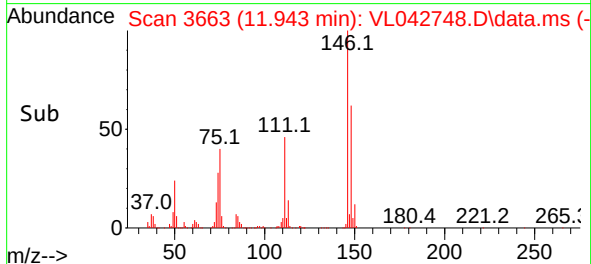
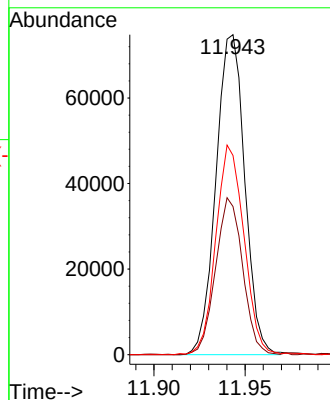
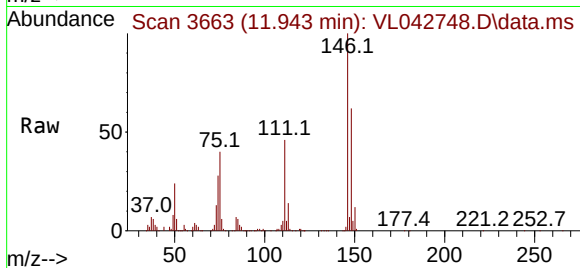
Tgt Ion:146 Resp: 82311

Ion Ratio Lower Upper

146 100

111 46.6 23.7 71.1

148 64.3 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 2.259 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

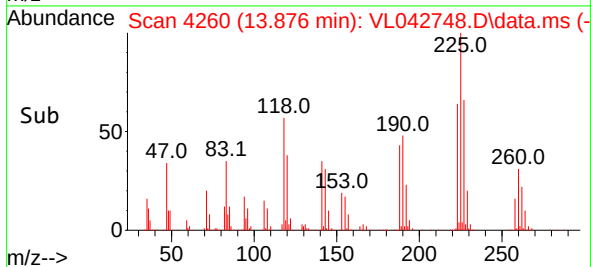
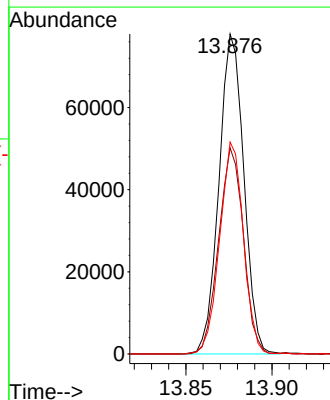
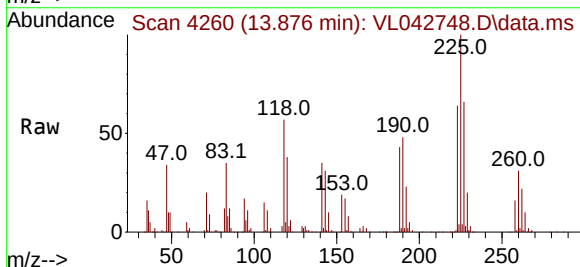
Tgt Ion:225 Resp: 78291

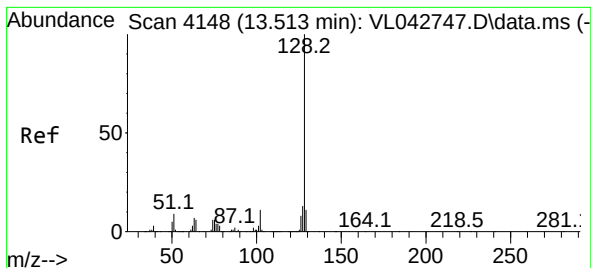
Ion Ratio Lower Upper

225 100

223 64.2 50.7 76.1

227 63.3 50.5 75.7





#79

Naphthalene

Concen: 1.690 ppbv

RT: 13.510 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

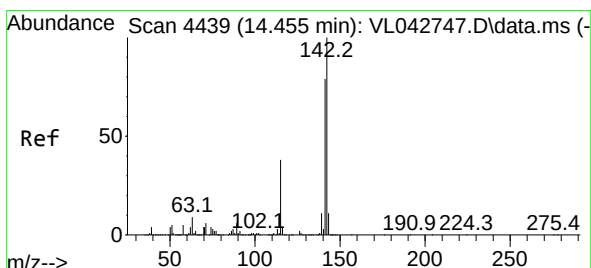
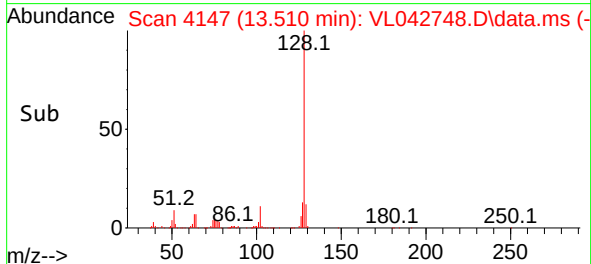
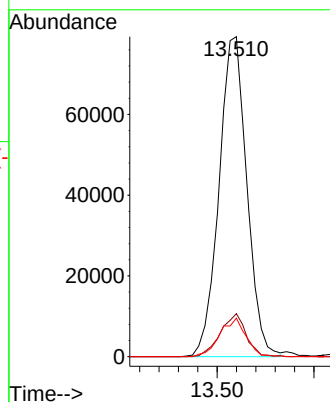
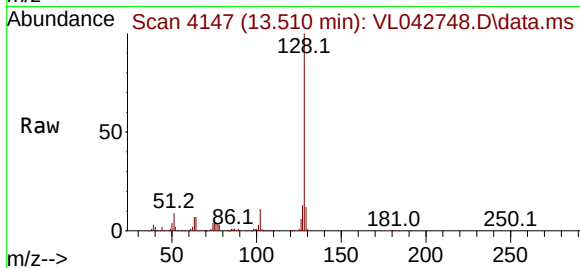
Tgt Ion:128 Resp: 79191

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

129 12.1 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 1.298 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

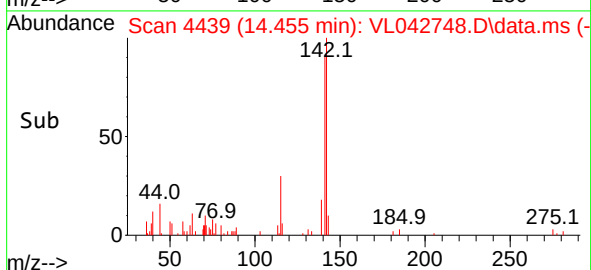
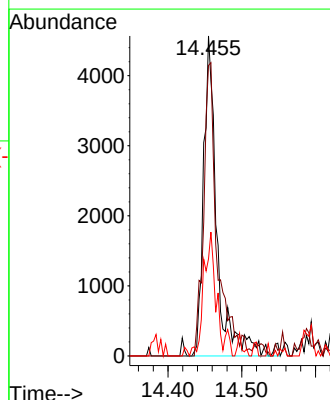
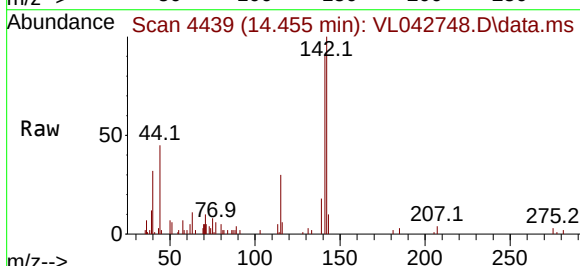
Tgt Ion:142 Resp: 5851

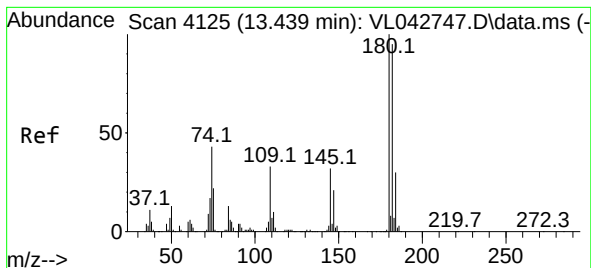
Ion Ratio Lower Upper

142 100

141 94.9 65.8 98.8

115 40.3 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 1.888 ppbv

RT: 13.435 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042748.D

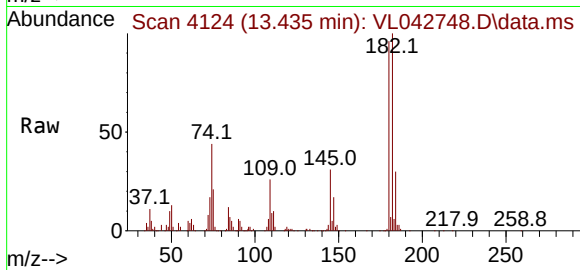
Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



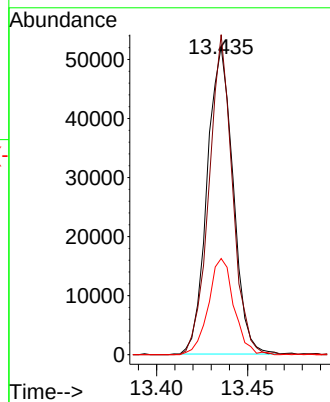
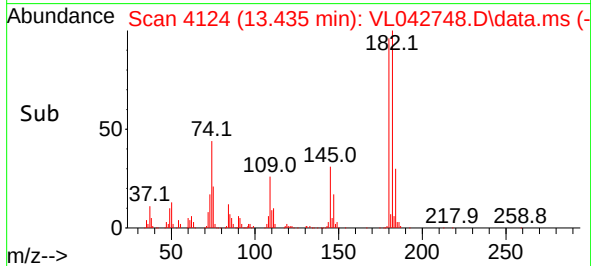
Tgt Ion:180 Resp: 51515

Ion Ratio Lower Upper

180 100

182 94.3 76.2 114.2

184 30.9 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

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 26 06:05:16 2022
 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	12823	0.487	ppbv #	29
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	1698	1.331	ppbv	88
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	4184	0.552	ppbv #	21
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.486	83	13285	0.388	ppbv	99
43) Methyl Methacrylate	4.868	69	7135	0.461	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	4937	0.284	ppbv	99

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

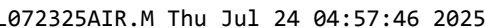
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

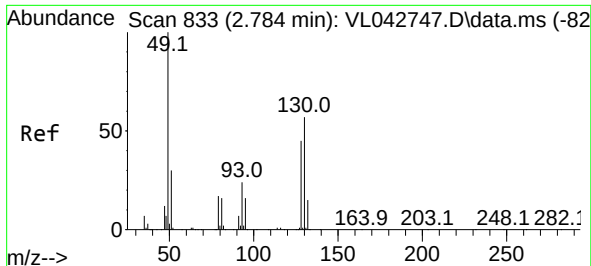
Quant Time: Jul 24 04:57:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	9670	0.439	ppbv #	94
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	20247	0.488	ppbv #	40
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	43966	0.849	ppbv #	3
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

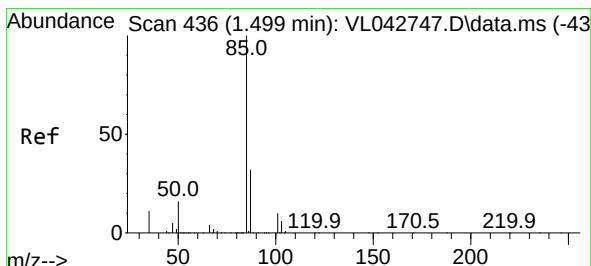
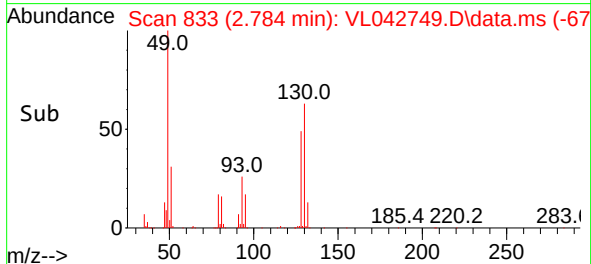
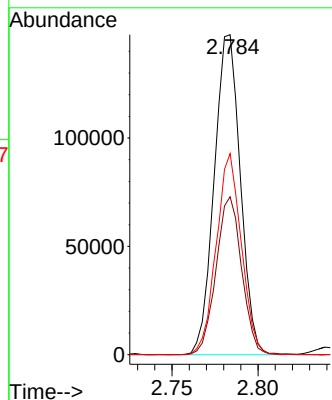
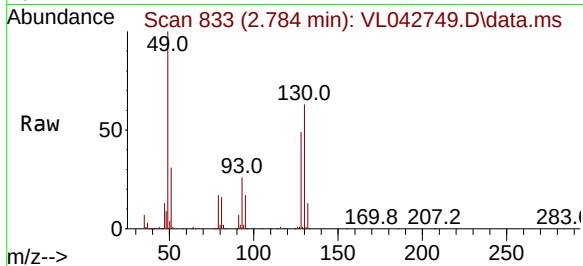




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

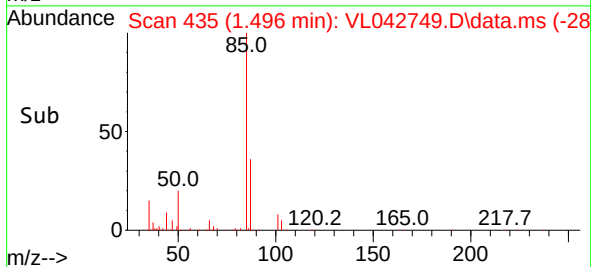
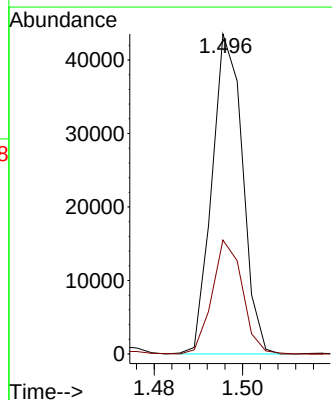
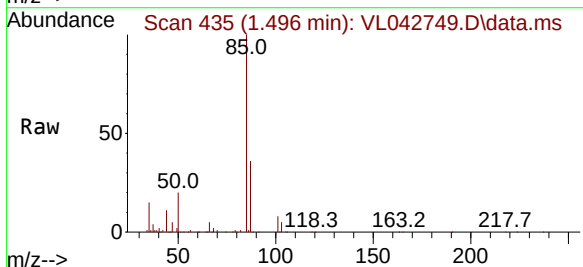
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

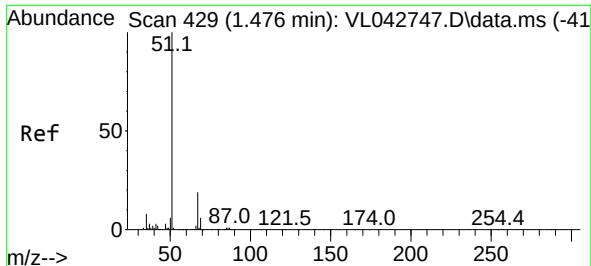
Tgt Ion: 49 Resp: 156293
 Ion Ratio Lower Upper
 49 100
 128 48.2 23.6 71.0
 130 60.4 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 1.013 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 20935
 Ion Ratio Lower Upper
 85 100
 87 35.6 25.4 38.2

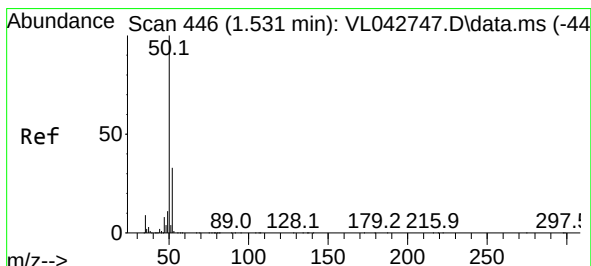
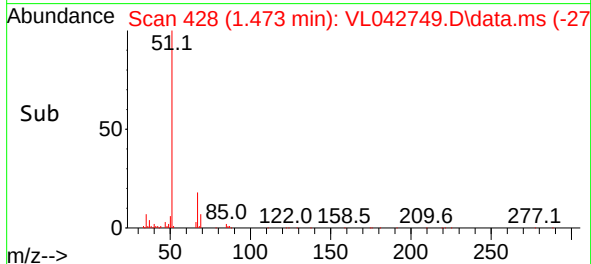
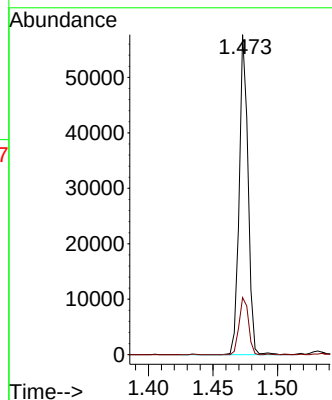
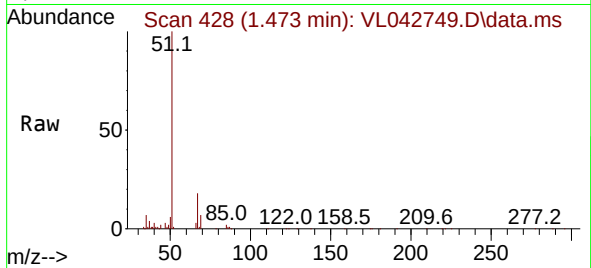




#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

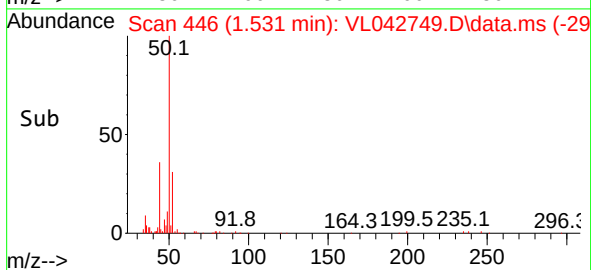
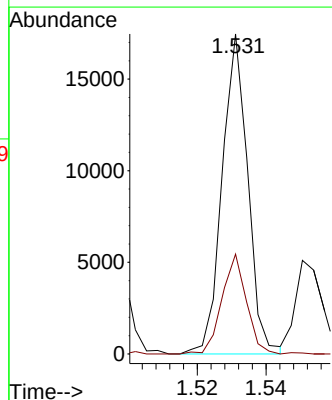
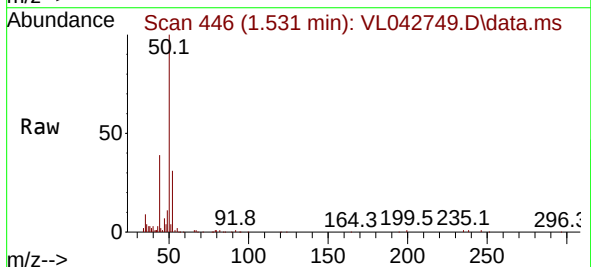
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

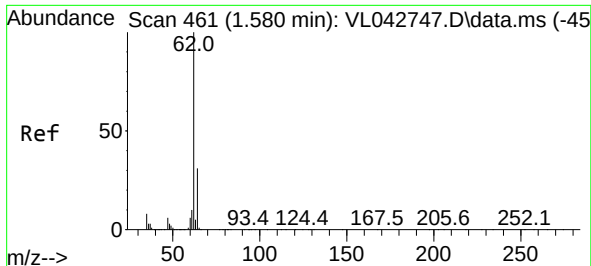
Tgt Ion: 51 Resp: 27459
Ion Ratio Lower Upper
51 100
67 19.3 15.0 22.6



#4
Chloromethane
Concen: 1.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 50 Resp: 9047
Ion Ratio Lower Upper
50 100
52 31.2 26.6 40.0

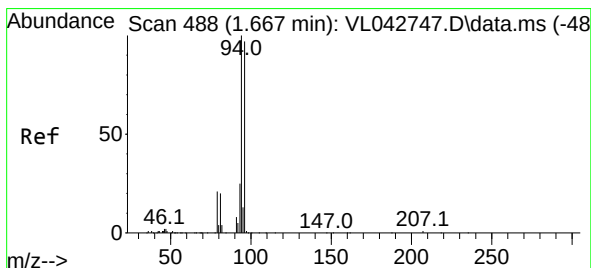
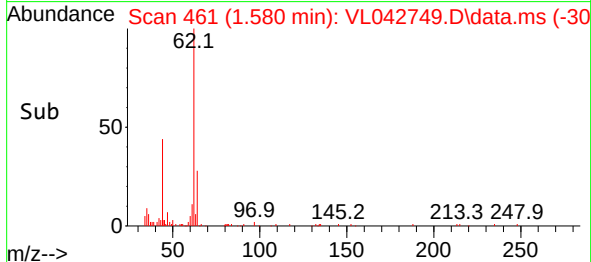
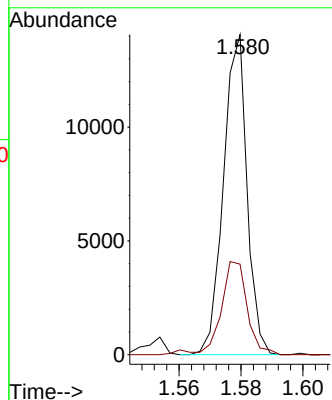
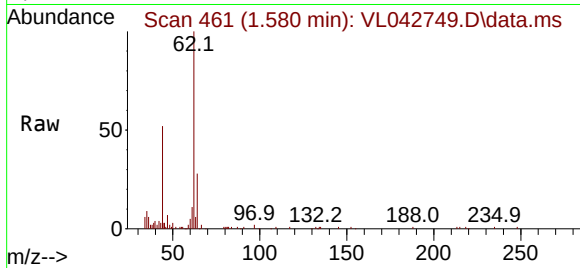




#5
 Vinyl Chloride
 Concen: 0.900 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

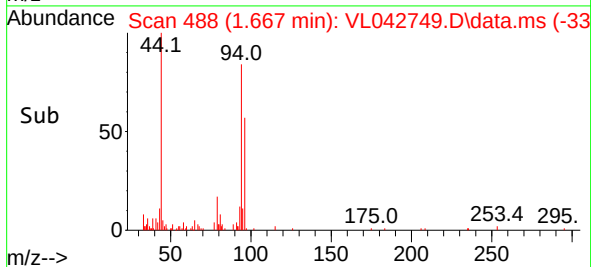
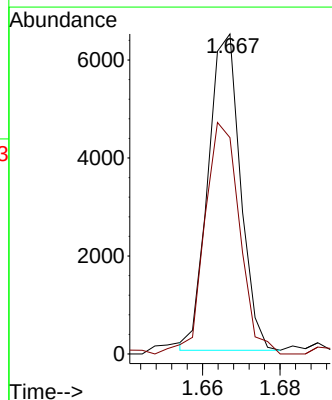
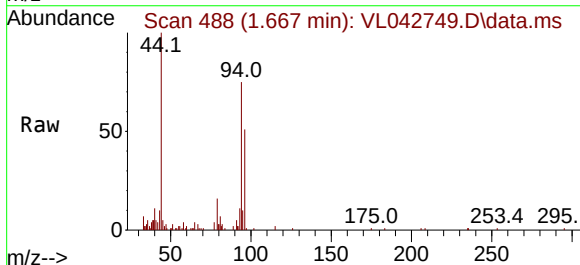
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

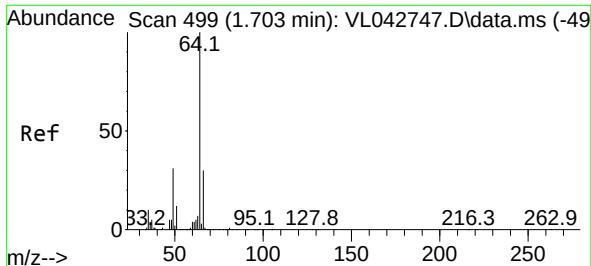
Tgt Ion: 62 Resp: 7432
 Ion Ratio Lower Upper
 62 100
 64 28.3 24.5 36.7



#6
 Bromomethane
 Concen: 1.172 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 94 Resp: 3743
 Ion Ratio Lower Upper
 94 100
 96 68.4 77.6 116.4#

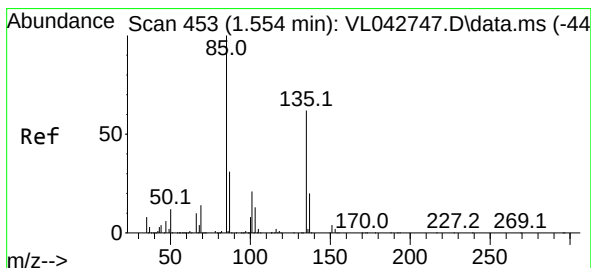
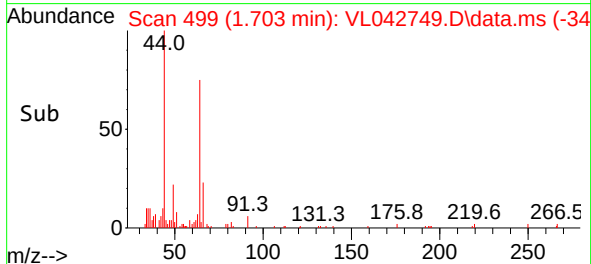
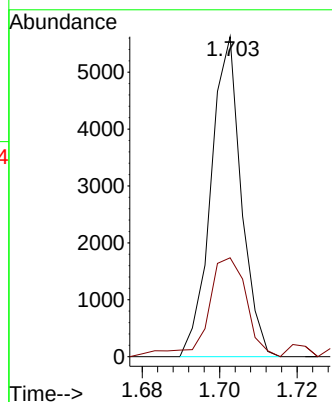
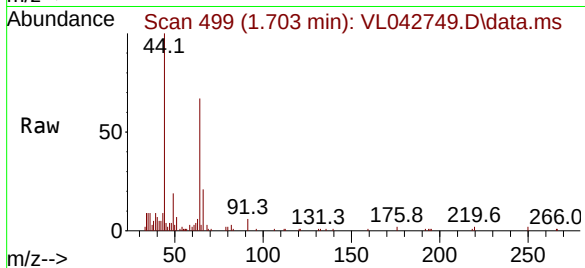




#7
Chloroethane
Concen: 0.959 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

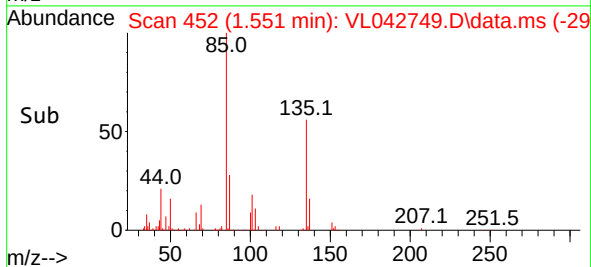
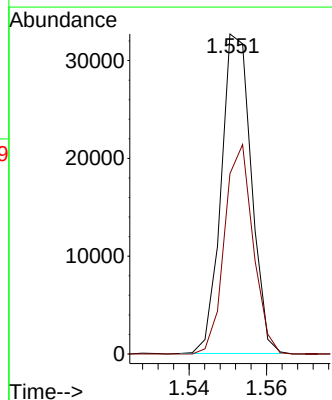
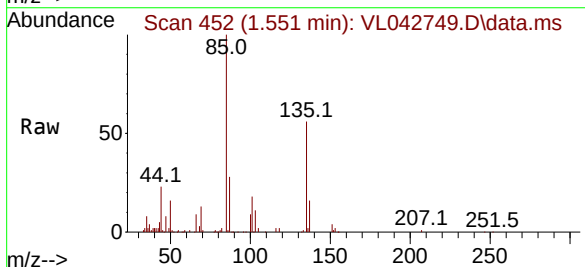
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

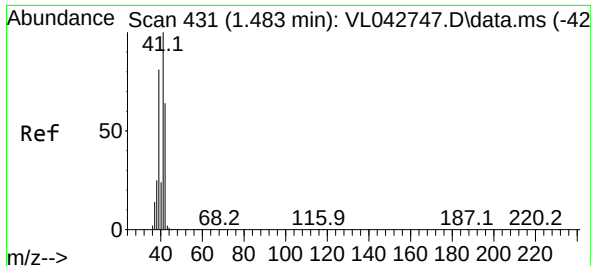
Tgt Ion: 64 Resp: 3061
Ion Ratio Lower Upper
64 100
66 30.9 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 1.040 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 17668
Ion Ratio Lower Upper
85 100
135 62.1 50.6 76.0





#9

Propene

Concen: 1.057 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

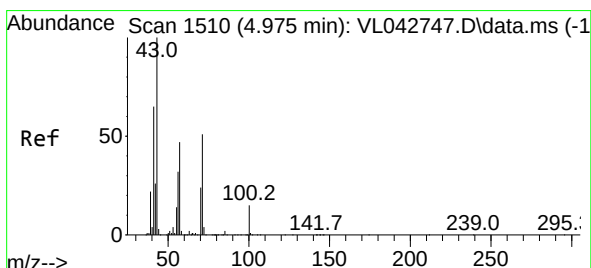
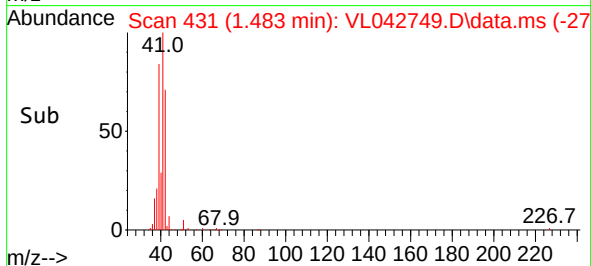
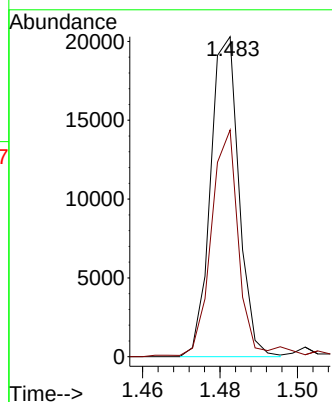
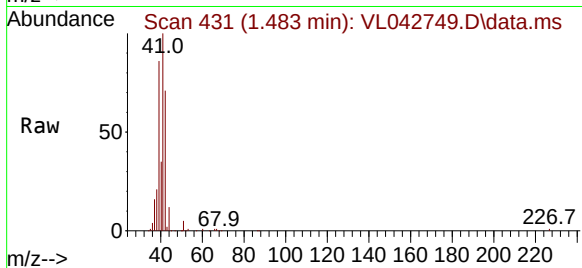
VSTDIC001

Tgt Ion: 41 Resp: 10346

Ion Ratio Lower Upper

41 100

42 70.5 53.2 79.8



#10

Heptane

Concen: 0.487 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VL042749.D

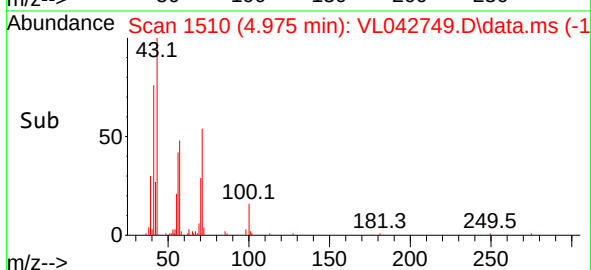
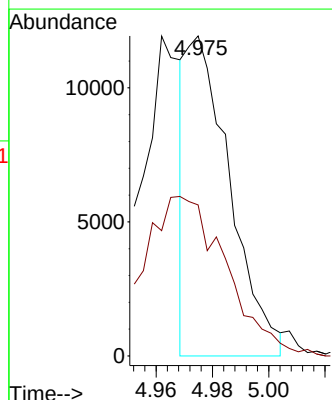
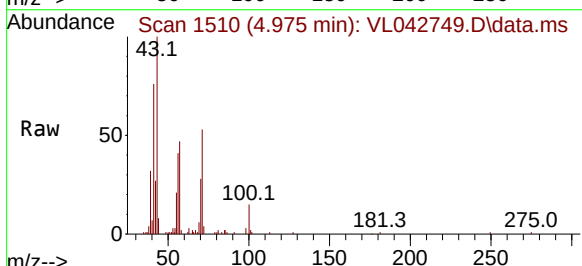
Acq: 23 Jul 2025 10:08

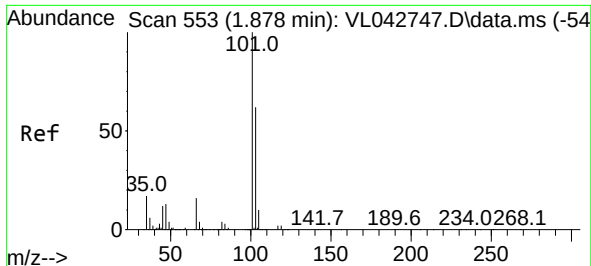
Tgt Ion: 43 Resp: 12823

Ion Ratio Lower Upper

43 100

57 98.9 39.9 59.9#

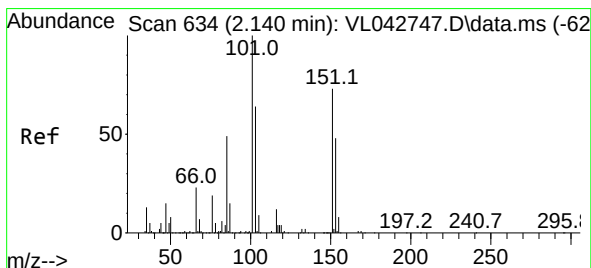
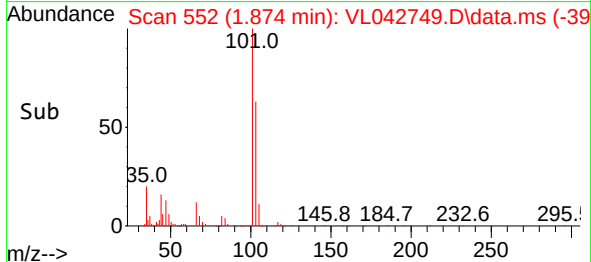
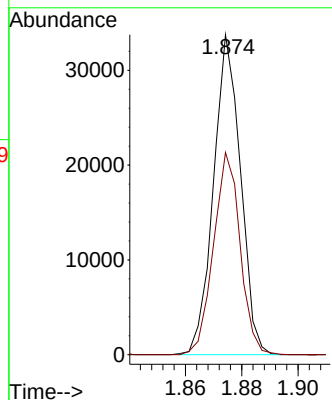
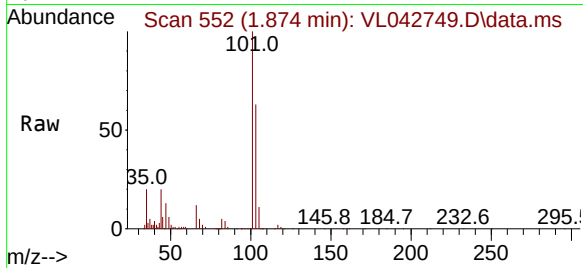




#11
 Trichlorofluoromethane
 Concen: 1.053 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

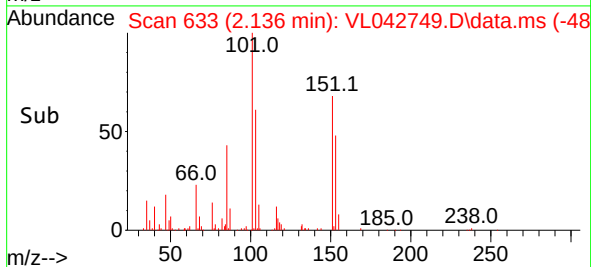
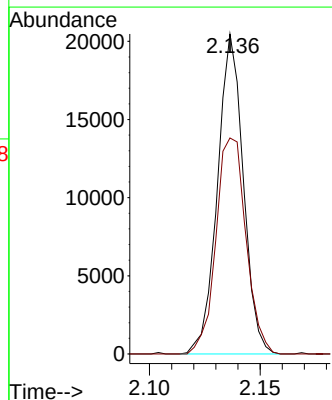
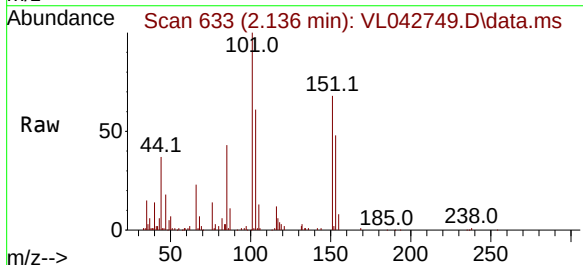
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

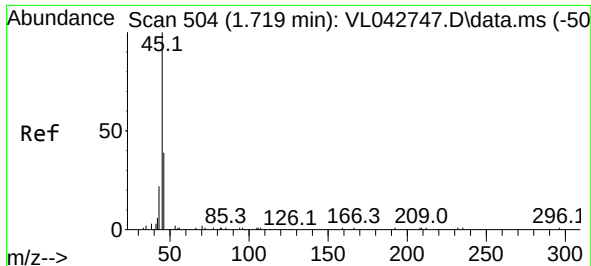
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.2 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.026 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion:101 Resp: 16608
 Ion Ratio Lower Upper
 101 100
 151 78.6 60.5 90.7

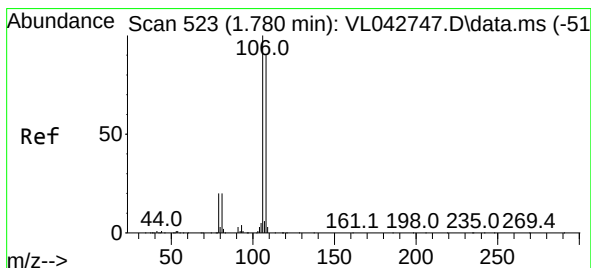
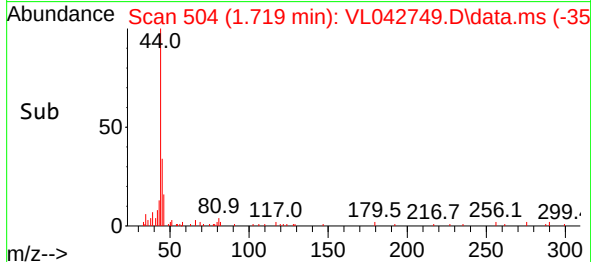
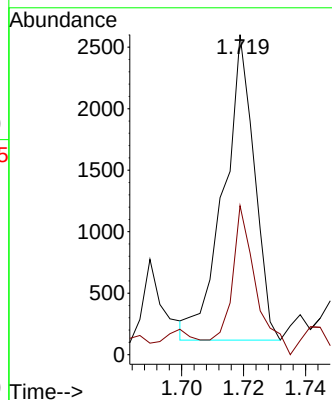
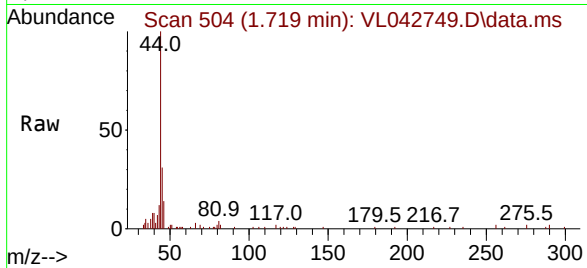




#13
Ethanol
Concen: 1.331 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

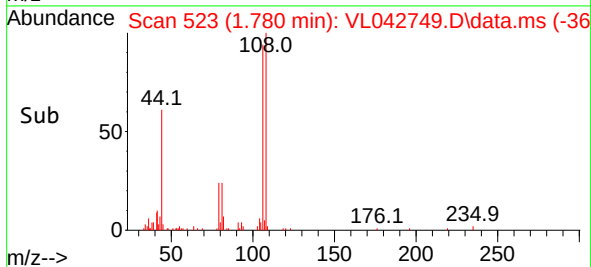
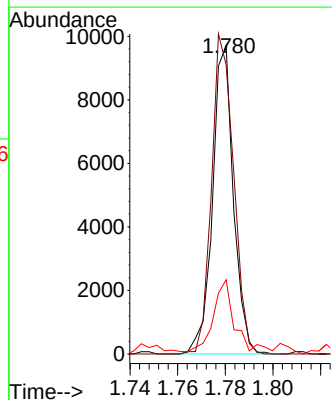
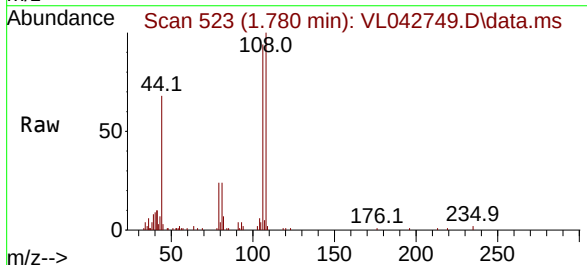
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

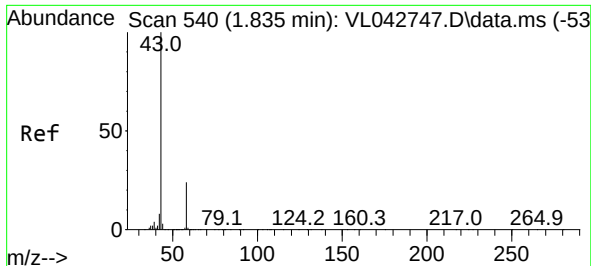
Tgt Ion: 45 Resp: 1698
Ion Ratio Lower Upper
45 100
46 36.6 17.8 71.4



#14
Bromoethene
Concen: 1.034 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 108 Resp: 5928
Ion Ratio Lower Upper
108 100
106 108.7 84.7 127.1
79 38.6 17.4 26.2#

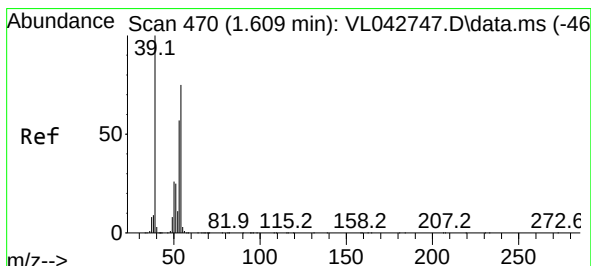
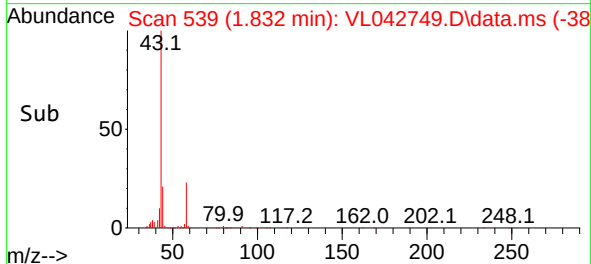
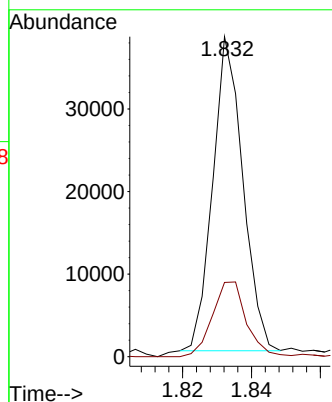
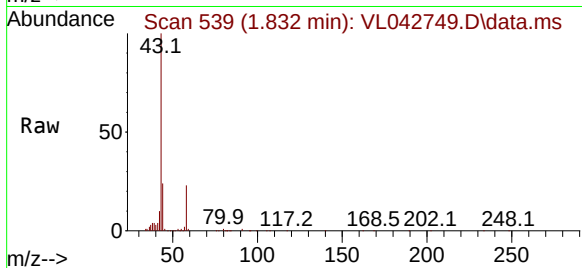




#15
Acetone
Concen: 1.071 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

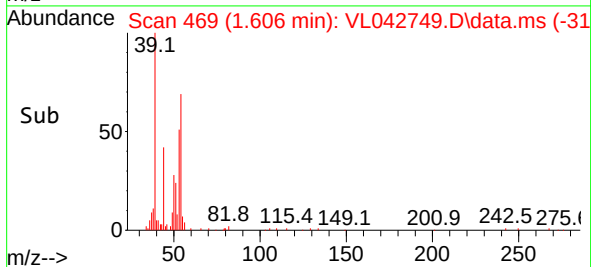
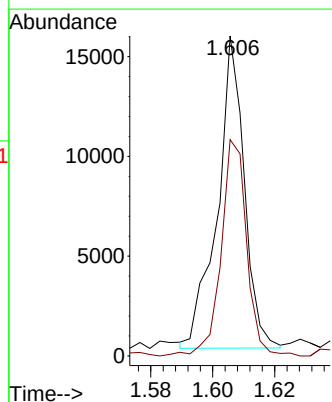
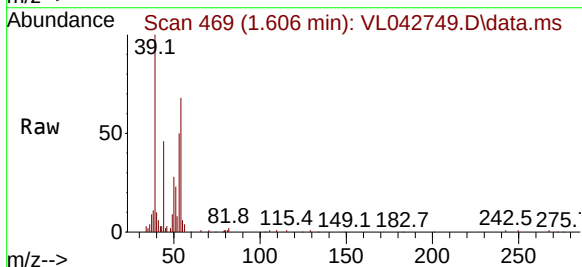
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

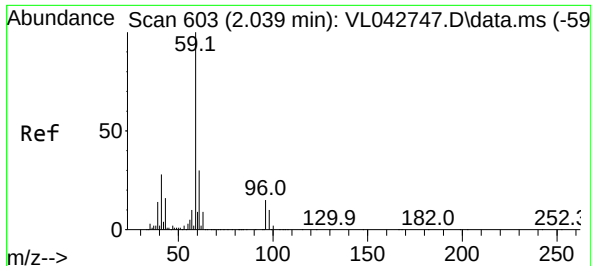
Tgt Ion: 43 Resp: 23119
Ion Ratio Lower Upper
43 100
58 27.7 19.8 29.8



#16
1,3-Butadiene
Concen: 1.023 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 39 Resp: 9416
Ion Ratio Lower Upper
39 100
54 69.7 54.5 81.7





#17

tert-Butyl alcohol

Concen: 1.024 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

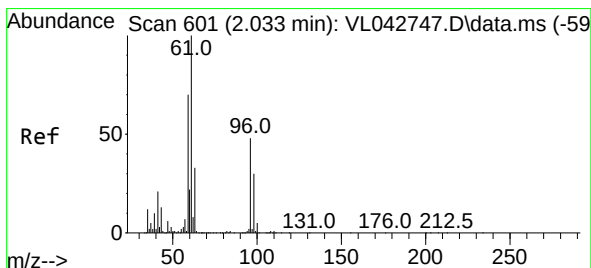
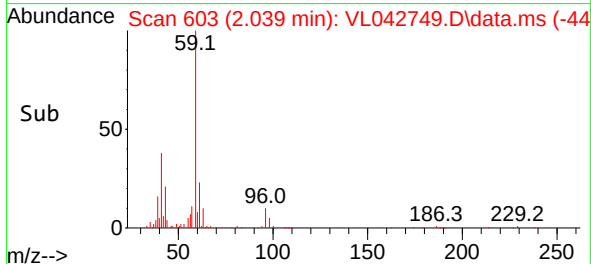
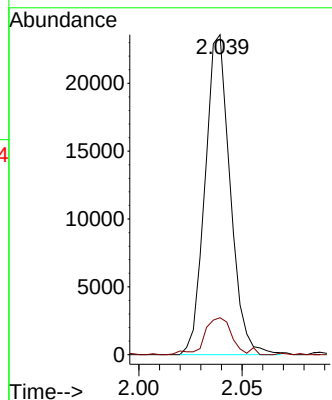
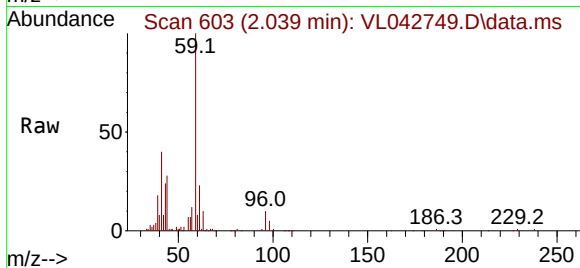
VSTDIC001

Tgt Ion: 59 Resp: 19926

Ion Ratio Lower Upper

59 100

57 12.9 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 1.132 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

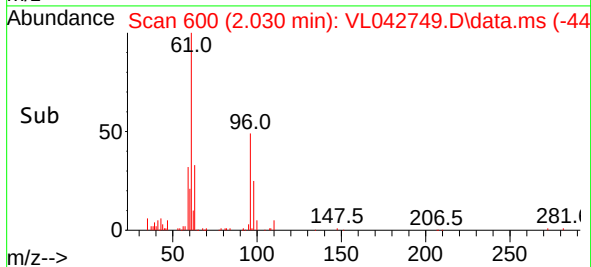
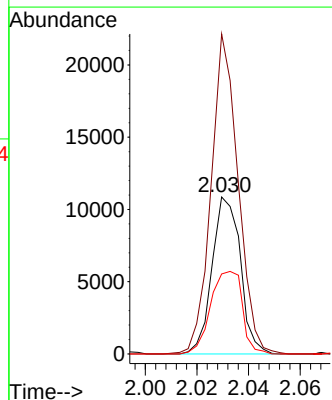
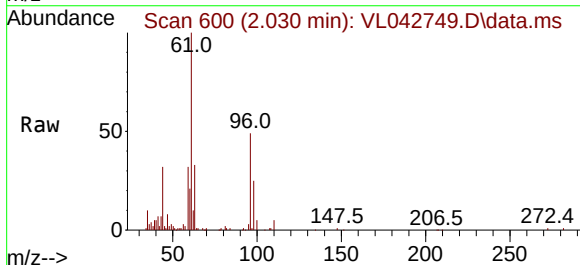
Tgt Ion: 96 Resp: 8276

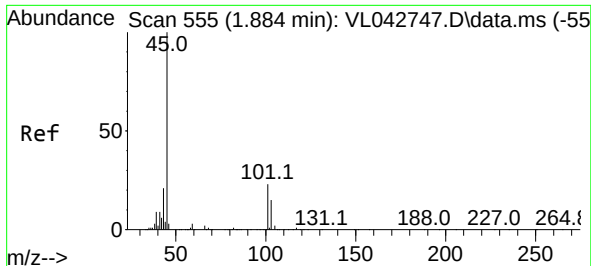
Ion Ratio Lower Upper

96 100

61 203.0 165.8 248.6

98 51.0 49.9 74.9

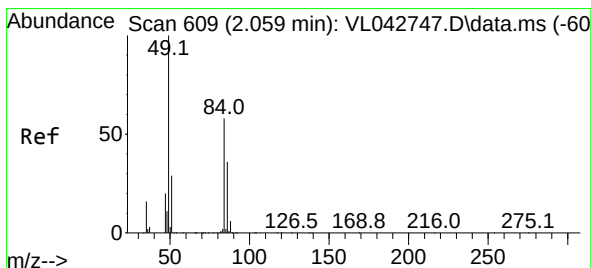
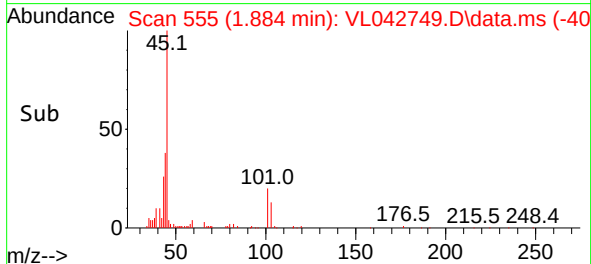
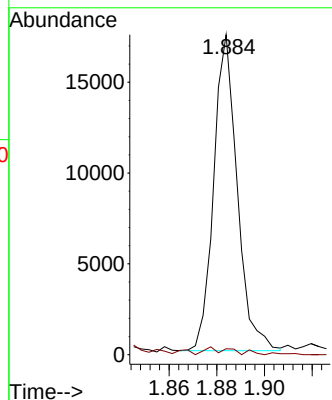
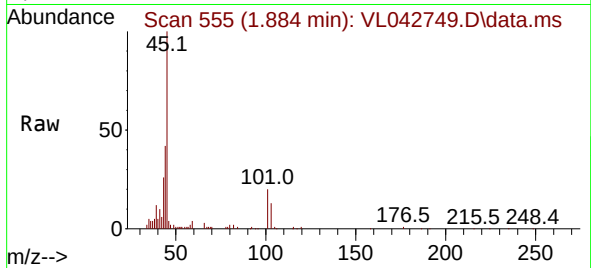




#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

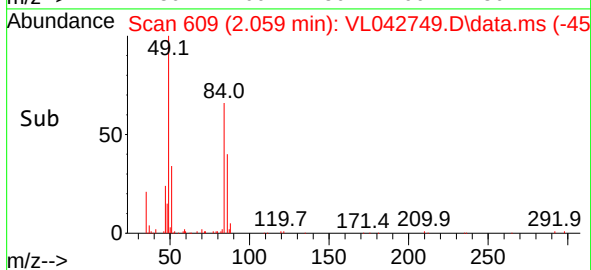
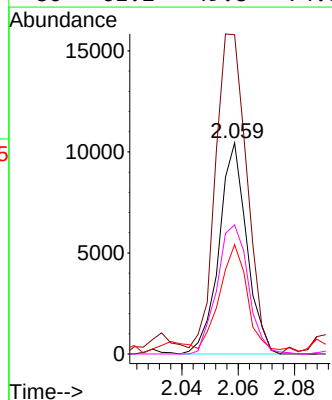
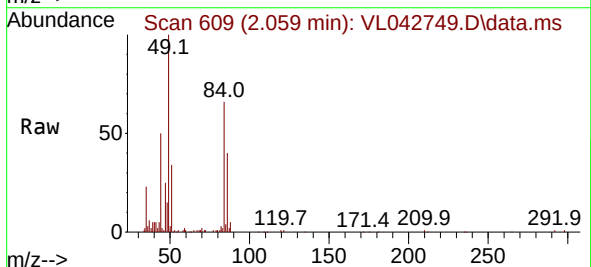
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

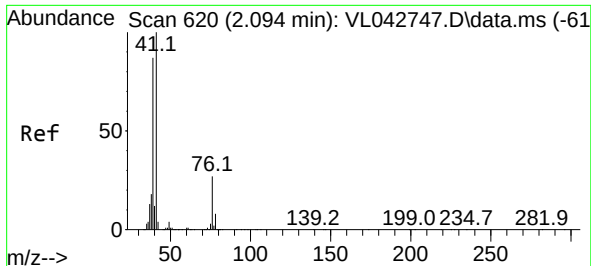
Tgt Ion: 45 Resp: 11942
Ion Ratio Lower Upper
45 100
58 2.8 30.0 45.0#



#20
Methylene Chloride
Concen: 1.052 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 7153
Ion Ratio Lower Upper
84 100
49 151.3 138.6 208.0
51 50.2 40.6 61.0
86 61.2 49.8 74.8

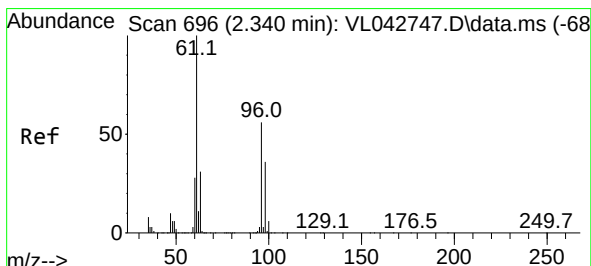
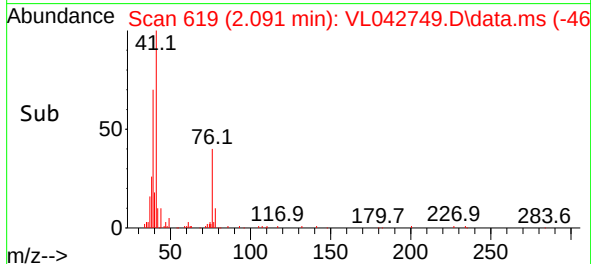
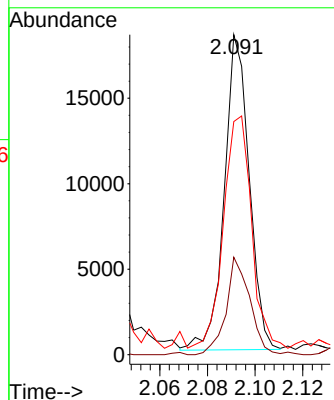
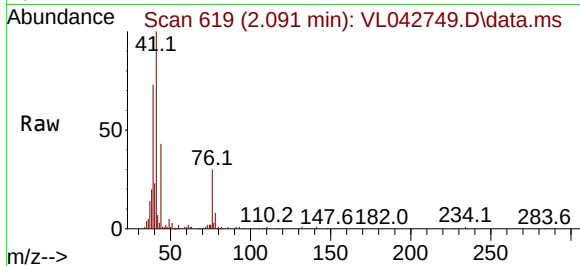




#21
 Allyl Chloride
 Concen: 1.006 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

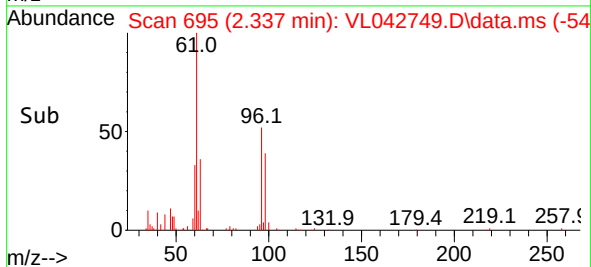
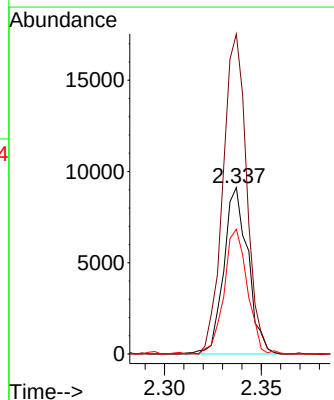
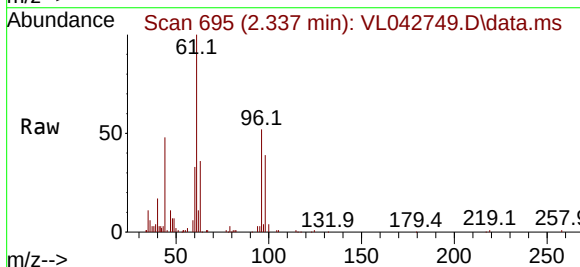
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

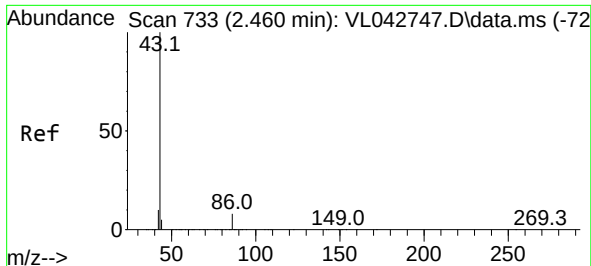
Tgt Ion: 41 Resp: 13382
 Ion Ratio Lower Upper
 41 100
 76 30.1 21.1 31.7
 39 93.4 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 1.007 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 7909
 Ion Ratio Lower Upper
 96 100
 61 192.3 142.3 213.5
 98 74.2 50.6 76.0

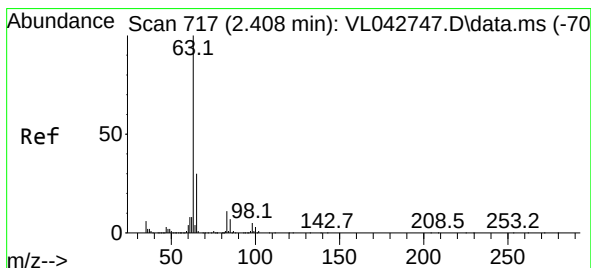
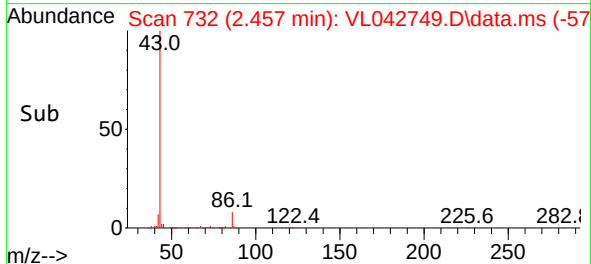
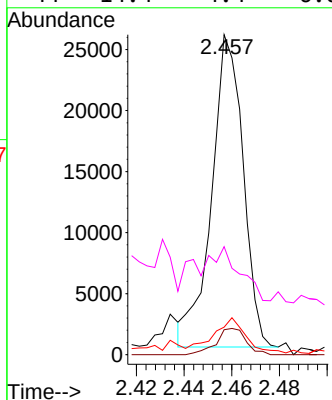
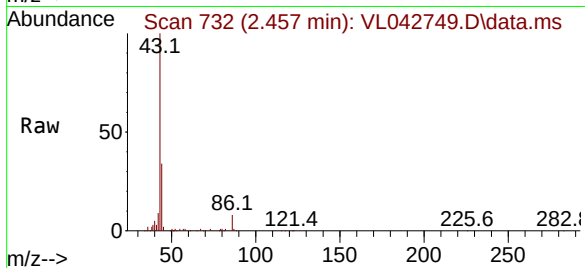




#23
 Vinyl Acetate
 Concen: 0.897 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

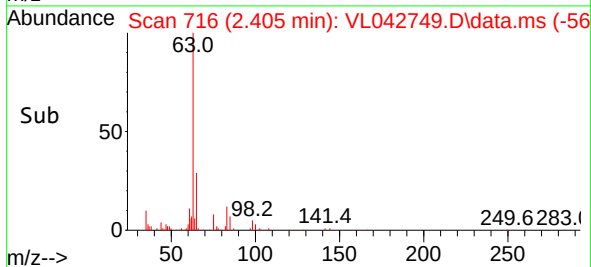
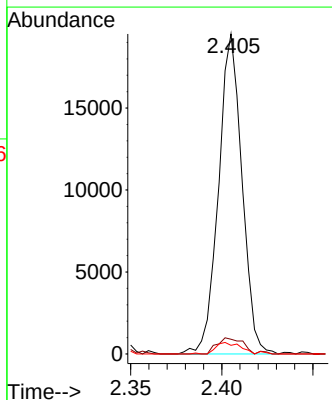
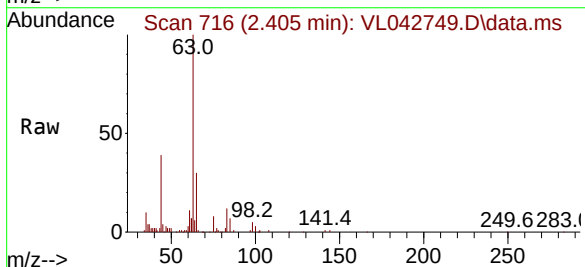
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

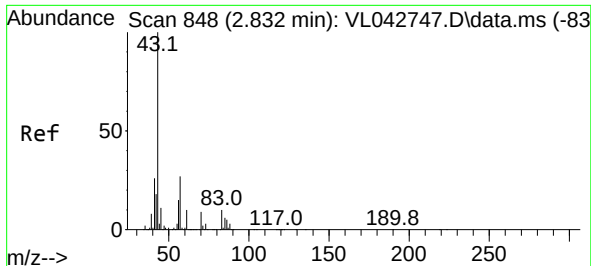
Tgt Ion: 43	Resp: 23472
Ion Ratio	Lower Upper
43 100	
86 8.0	6.1 9.1
42 7.5	7.8 11.8#
44 14.4	4.4 6.6#



#24
 1,1-Dichloroethane
 Concen: 1.081 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 63	Resp: 17459
Ion Ratio	Lower Upper
63 100	
98 4.6	2.5 7.4
100 2.7	1.6 4.8



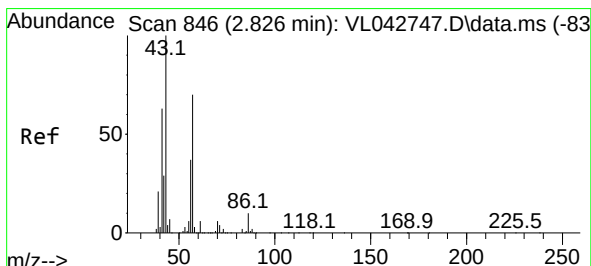
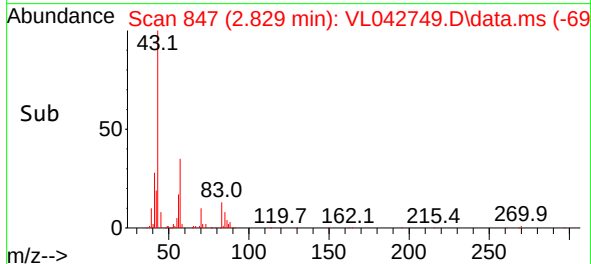
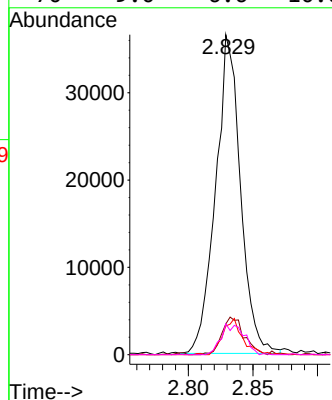
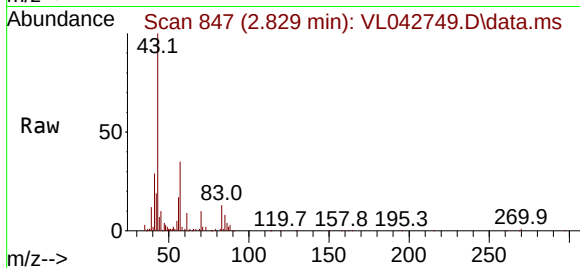


#25
Ethyl Acetate
Concen: 1.021 ppbv
RT: 2.829 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 48790

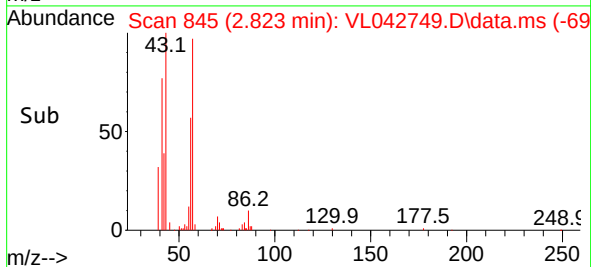
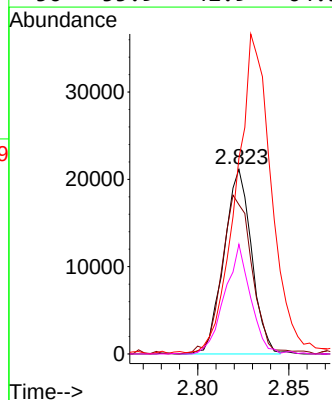
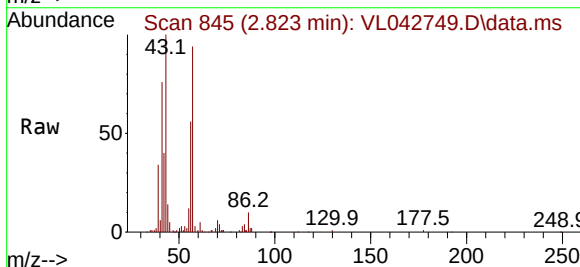
Ion	Ratio	Lower	Upper
43	100		
45	11.3	7.8	11.6
61	9.3	6.7	10.1
70	9.0	6.6	10.0

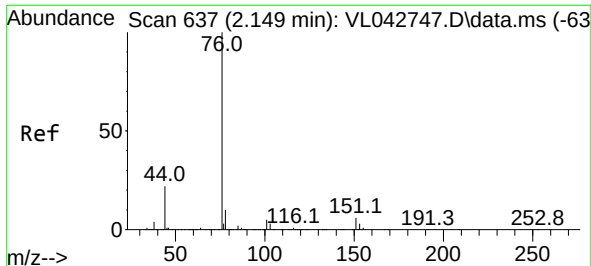


#26
Hexane
Concen: 1.063 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 22279

Ion	Ratio	Lower	Upper
57	100		
41	98.5	75.4	113.2
43	230.7	185.0	277.6
56	55.9	42.9	64.3





#27

Carbon Disulfide

Concen: 1.031 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

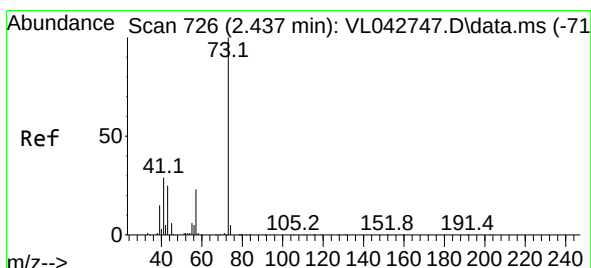
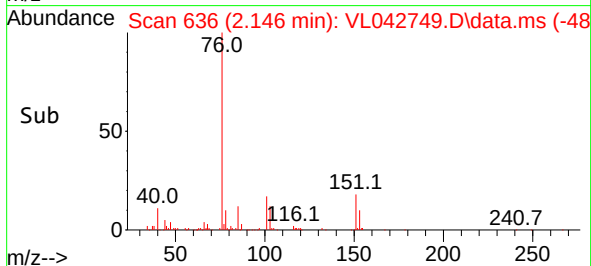
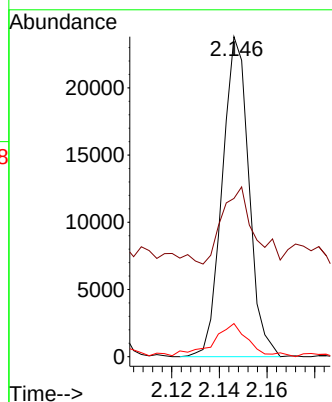
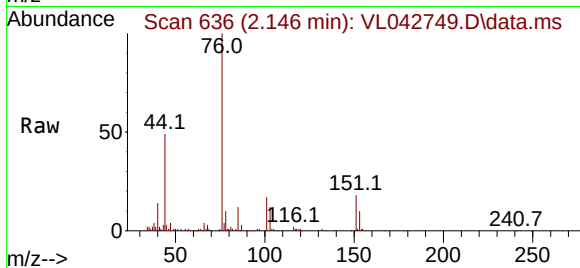
Tgt Ion: 76 Resp: 18488

Ion Ratio Lower Upper

76 100

44 115.6 19.3 28.9#

78 14.9 9.9 14.9#



#28

Methyl tert-Butyl Ether

Concen: 0.968 ppbv

RT: 2.434 min Scan# 725

Delta R.T. -0.003 min

Lab File: VL042749.D

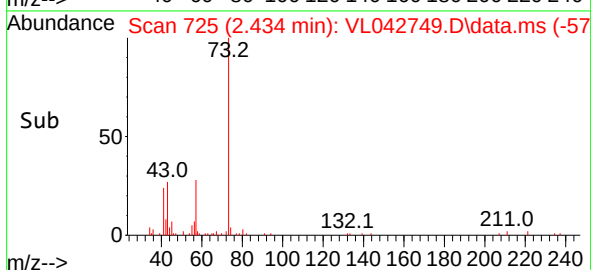
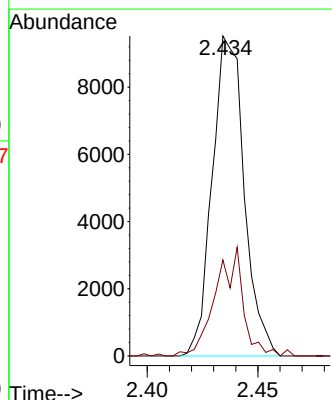
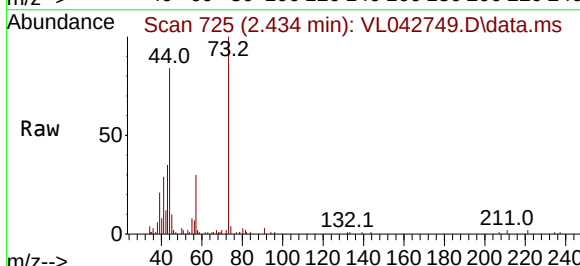
Acq: 23 Jul 2025 10:08

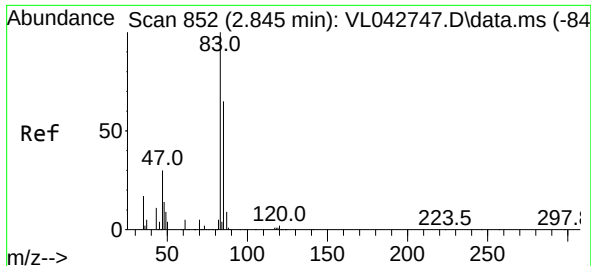
Tgt Ion: 73 Resp: 9587

Ion Ratio Lower Upper

73 100

57 29.7 19.8 29.8





#29

Chloroform

Concen: 1.015 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

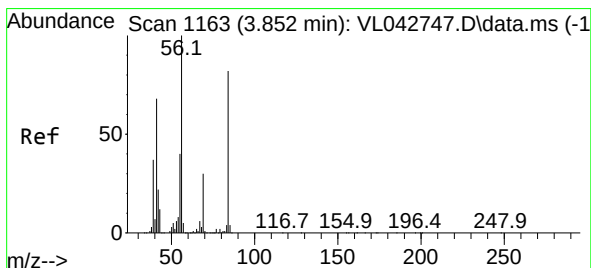
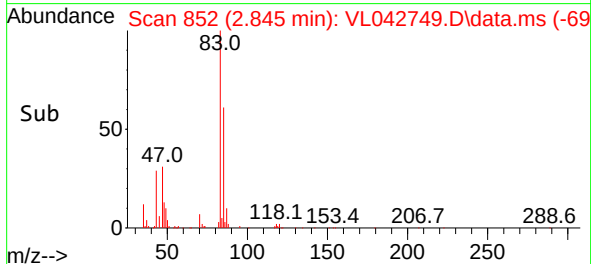
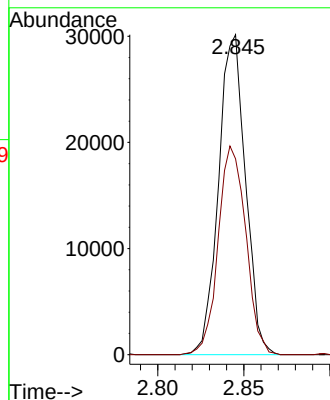
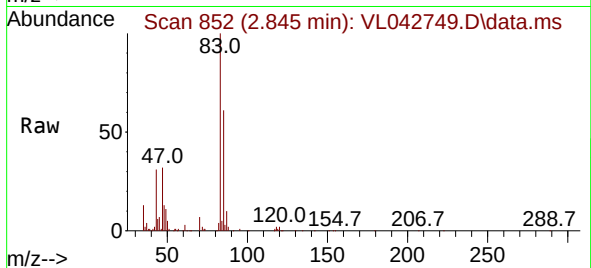
VSTDIC001

Tgt Ion: 83 Resp: 32880

Ion Ratio Lower Upper

83 100

85 61.2 52.2 78.2



#30

Cyclohexane

Concen: 1.003 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

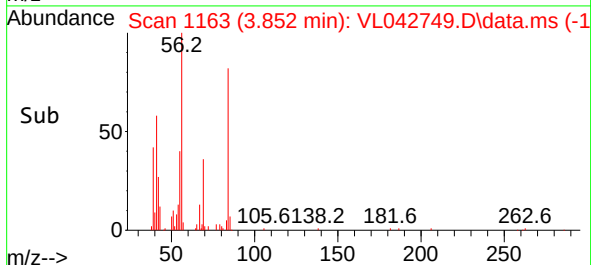
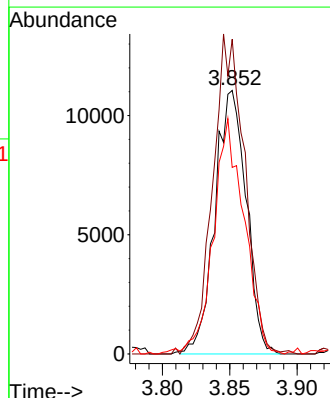
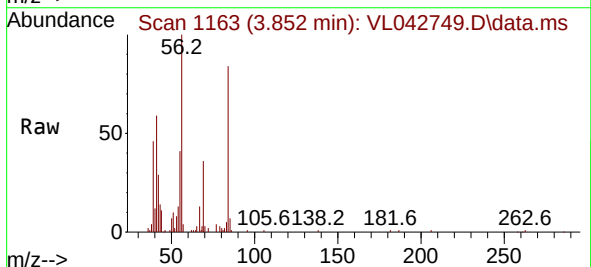
Tgt Ion: 84 Resp: 17824

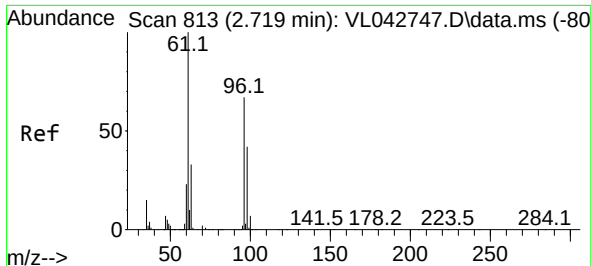
Ion Ratio Lower Upper

84 100

56 124.3 97.5 146.3

41 88.5 67.2 100.8

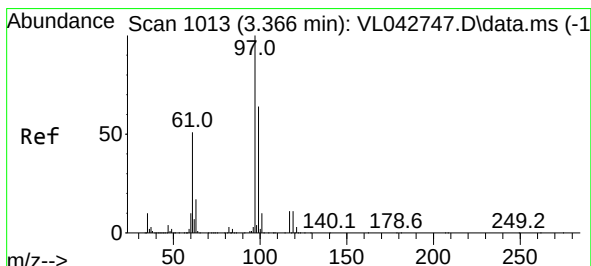
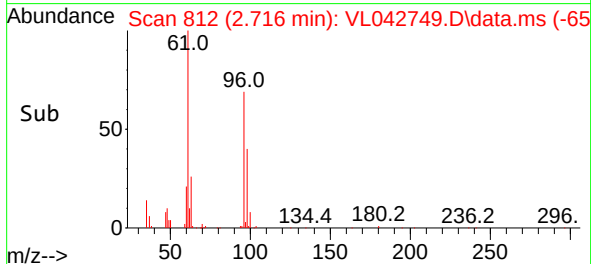
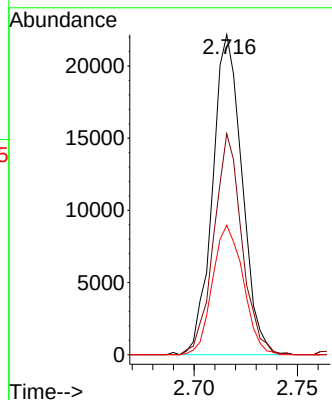
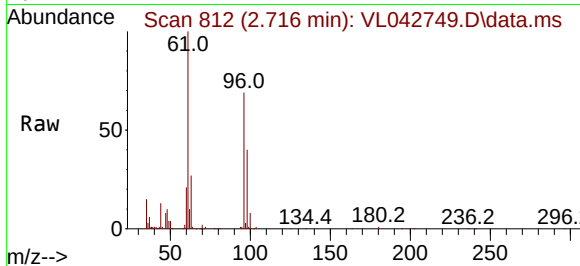




#31
 cis-1,2-Dichloroethene
 Concen: 1.021 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

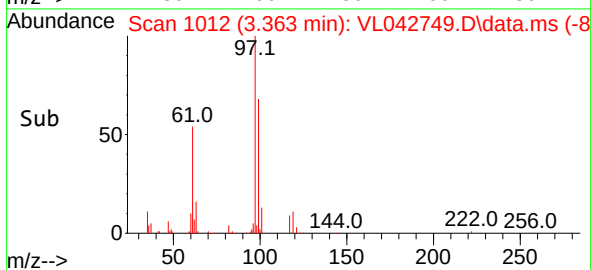
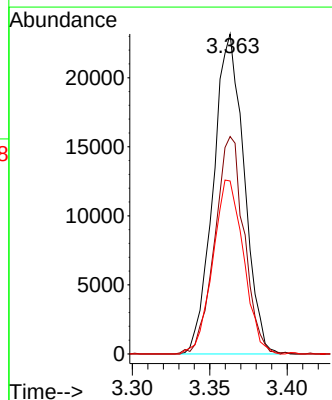
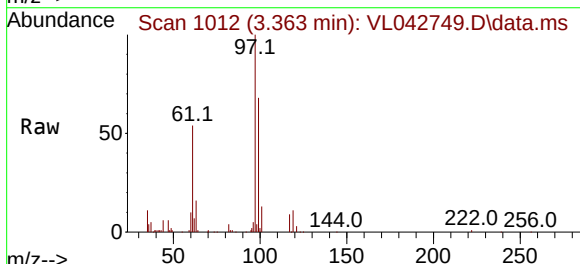
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

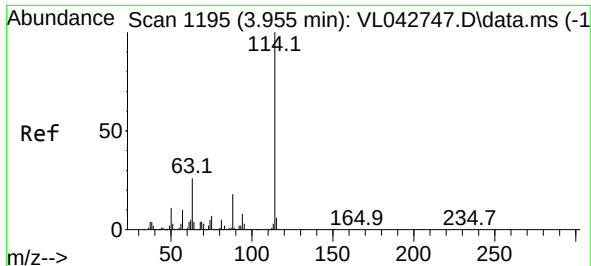
Tgt Ion: 61 Resp: 21979
 Ion Ratio Lower Upper
 61 100
 96 69.0 53.5 80.3
 98 40.5 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 0.949 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 97 Resp: 32003
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.6
 61 54.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

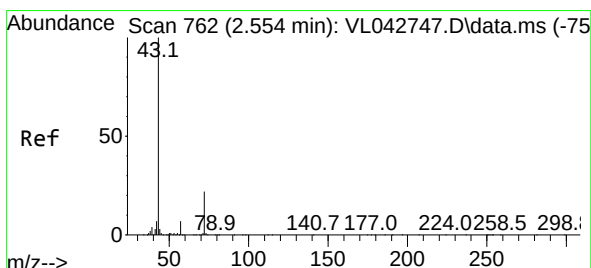
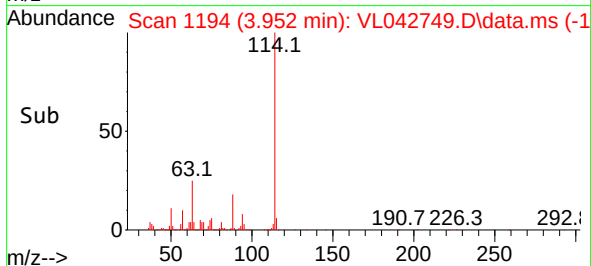
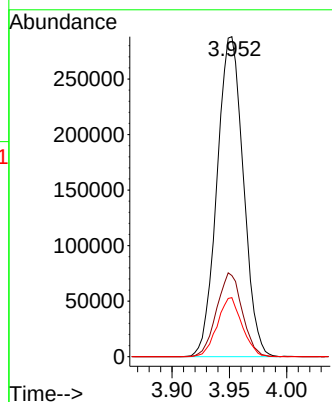
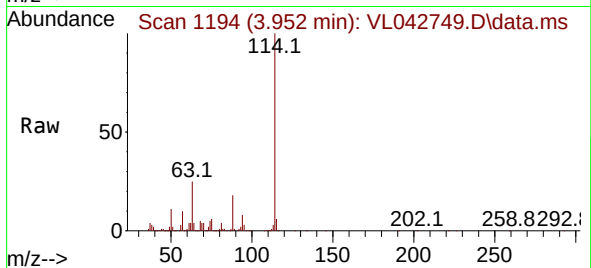
Tgt Ion:114 Resp: 459770

Ion Ratio Lower Upper

114 100

63 25.5 20.5 30.7

88 17.4 14.0 21.0



#34

2-Butanone

Concen: 1.007 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042749.D

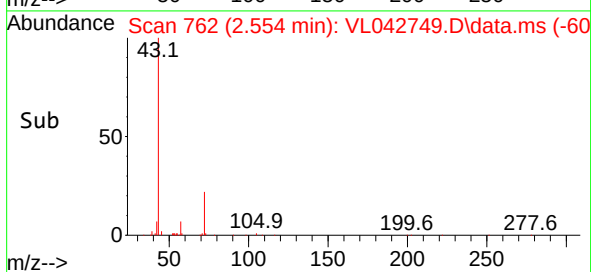
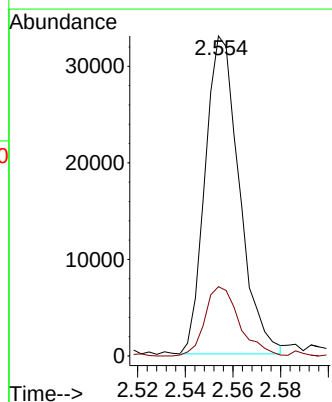
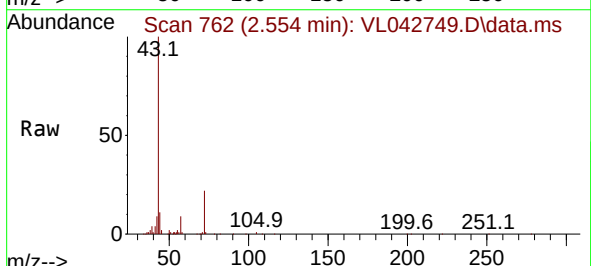
Acq: 23 Jul 2025 10:08

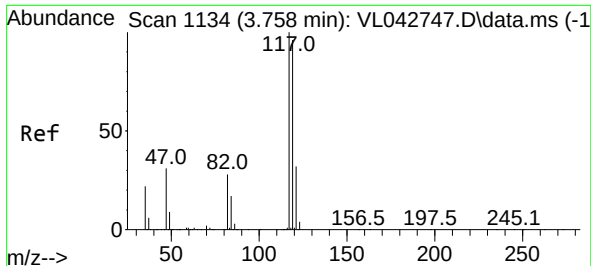
Tgt Ion: 43 Resp: 32783

Ion Ratio Lower Upper

43 100

72 22.7 17.4 26.0

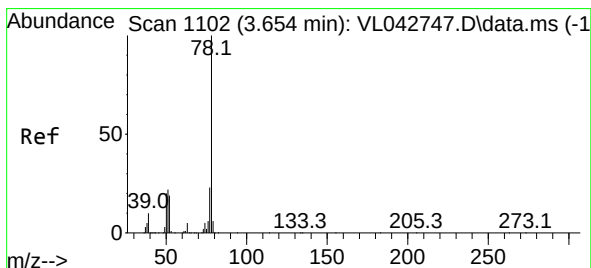
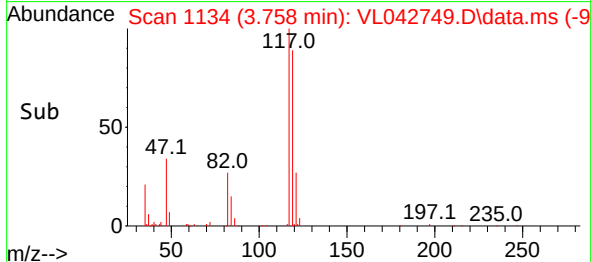
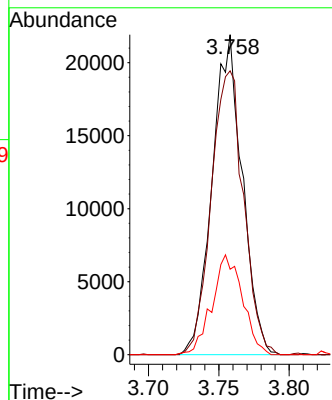
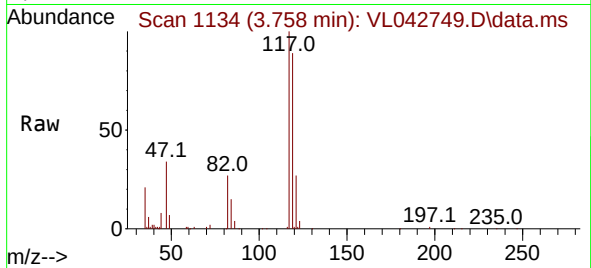




#35
Carbon Tetrachloride
Concen: 0.954 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

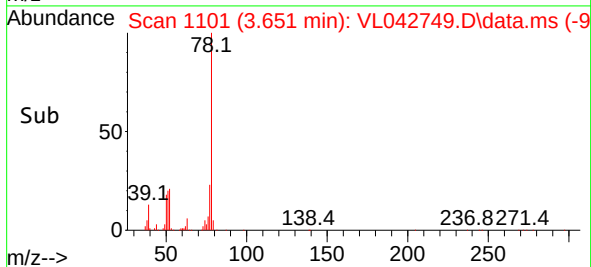
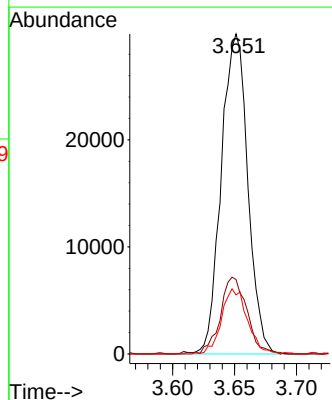
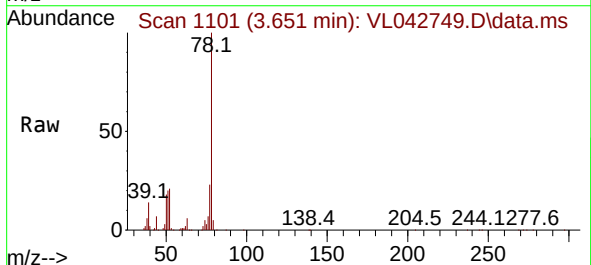
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

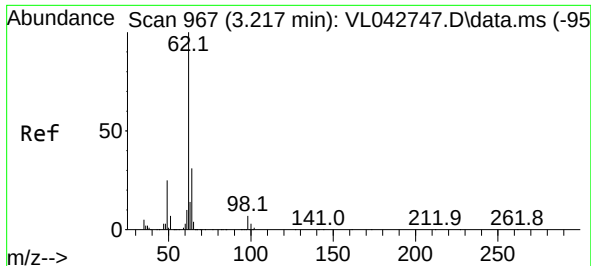
Tgt Ion:117 Resp: 32610
Ion Ratio Lower Upper
117 100
119 88.7 77.1 115.7
121 26.7 25.5 38.3



#36
Benzene
Concen: 1.024 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 78 Resp: 44638
Ion Ratio Lower Upper
78 100
77 23.1 18.5 27.7
50 18.4 16.2 24.2





#37

1,2-Dichloroethane

Concen: 1.025 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

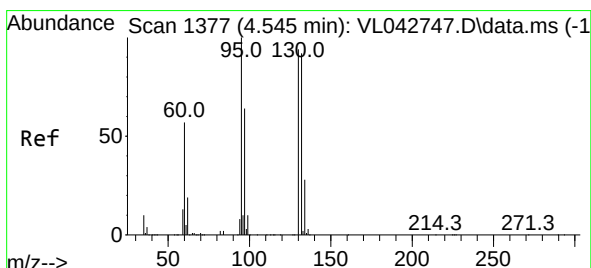
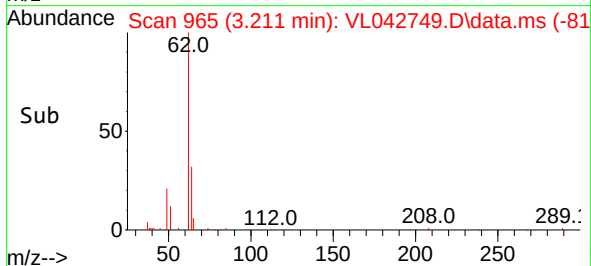
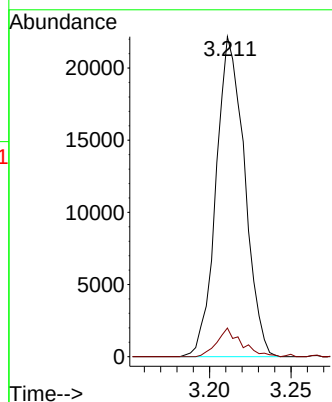
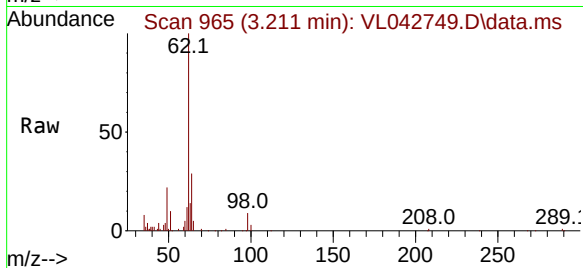
VSTDICC001

Tgt Ion: 62 Resp: 26909

Ion Ratio Lower Upper

62 100

98 8.0 5.2 7.8#



#38

Trichloroethene

Concen: 1.005 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:130 Resp: 21122

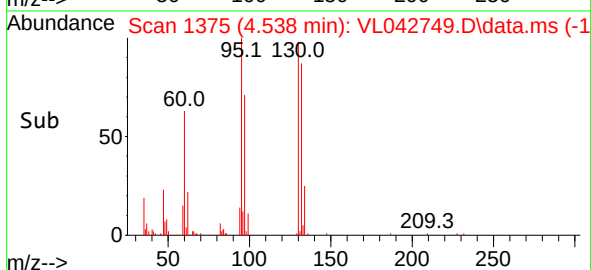
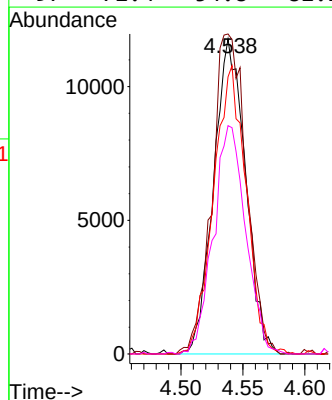
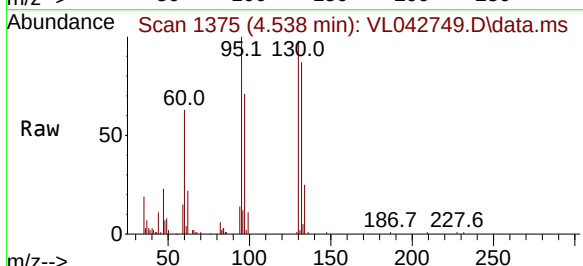
Ion Ratio Lower Upper

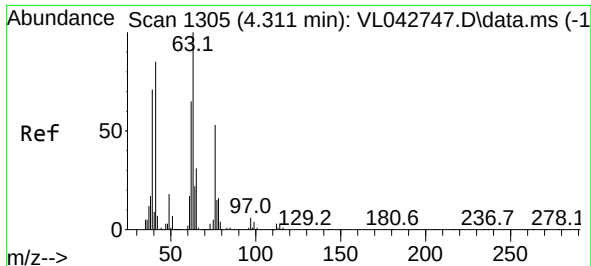
130 100

95 101.6 85.4 128.2

132 87.5 78.2 117.2

97 72.4 54.8 82.2





#39

1,2-Dichloropropane

Concen: 1.033 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

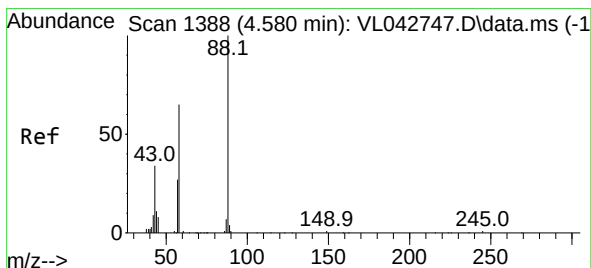
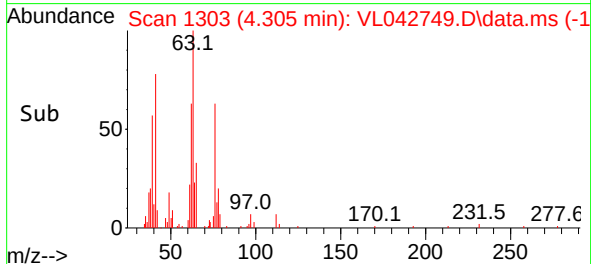
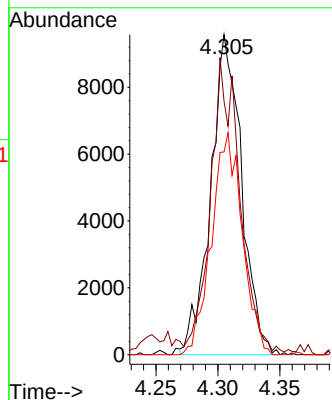
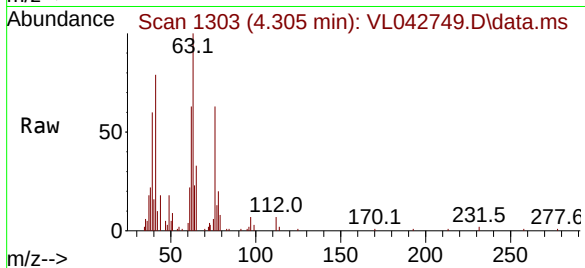
Tgt Ion: 63 Resp: 16622

Ion Ratio Lower Upper

63 100

41 77.8 68.2 102.4

62 63.3 52.0 78.0



#40

1,4-Dioxane

Concen: 0.552 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.006 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 88 Resp: 4184

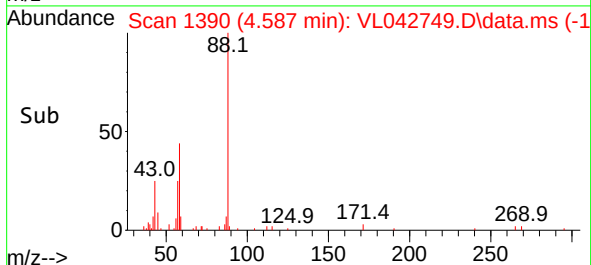
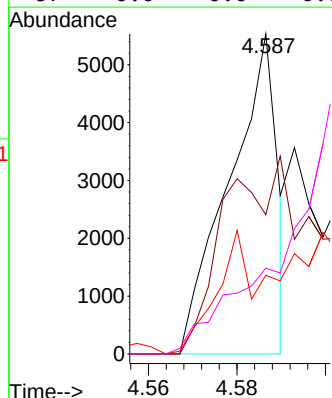
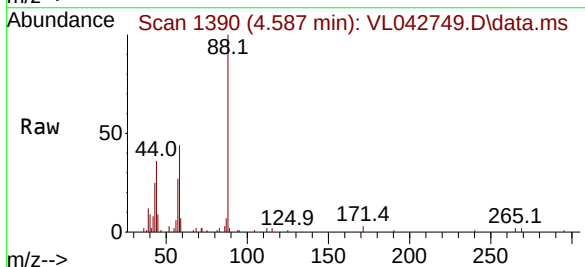
Ion Ratio Lower Upper

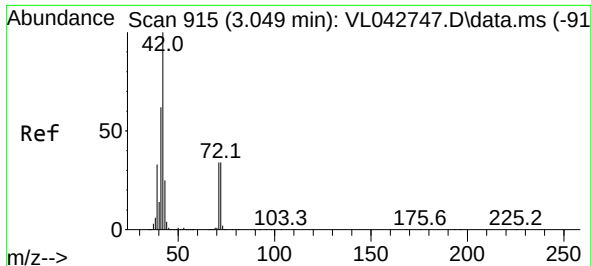
88 100

58 0.0 58.8 88.2#

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

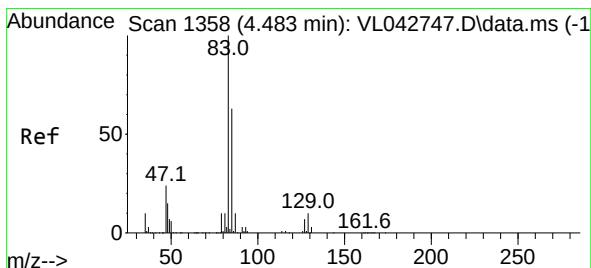
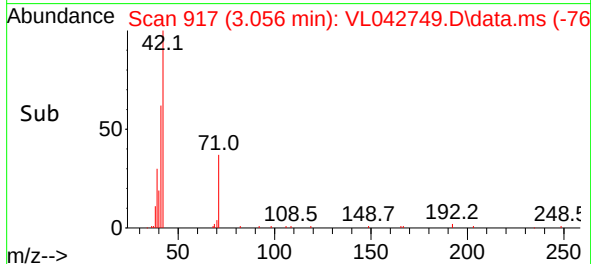
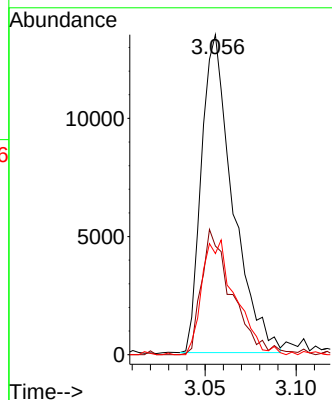
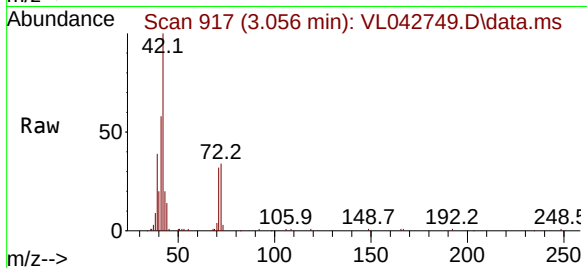




#41
Tetrahydrofuran
Concen: 0.984 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

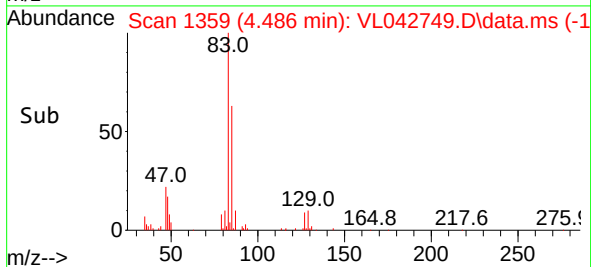
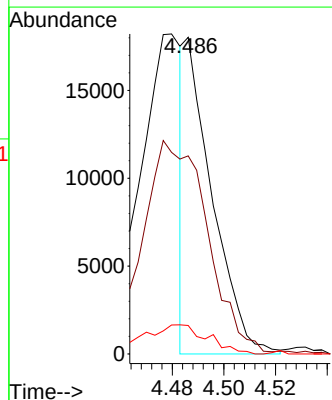
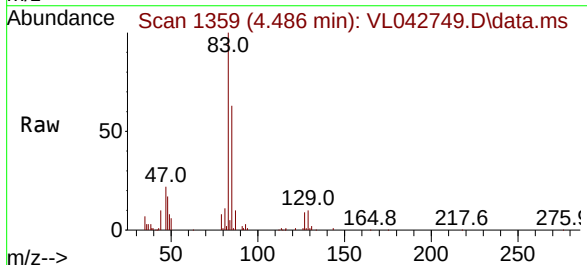
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

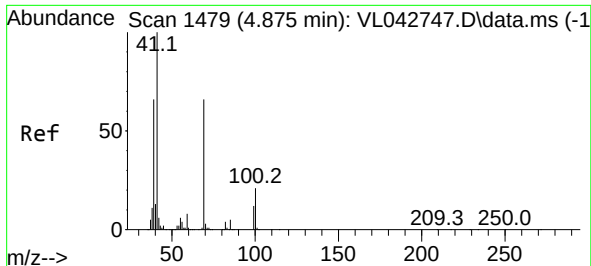
Tgt Ion: 42 Resp: 16097
Ion Ratio Lower Upper
42 100
72 39.1 30.9 46.3
71 38.6 28.6 43.0



#42
Bromodichloromethane
Concen: 0.388 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 83 Resp: 13285
Ion Ratio Lower Upper
83 100
85 62.4 50.2 75.4
127 8.0 5.4 8.2

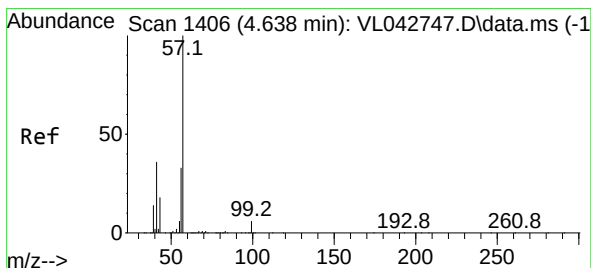
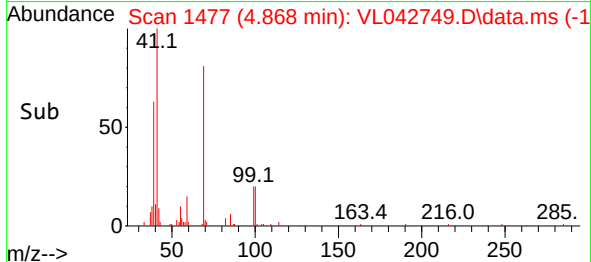
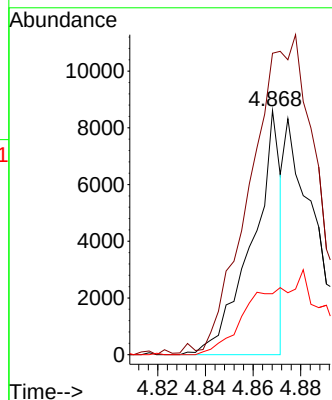
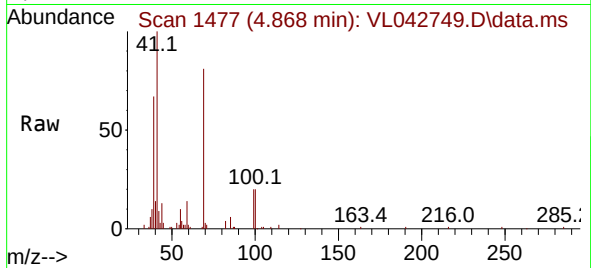




#43
Methyl Methacrylate
Concen: 0.461 ppbv
RT: 4.868 min Scan# 1477
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

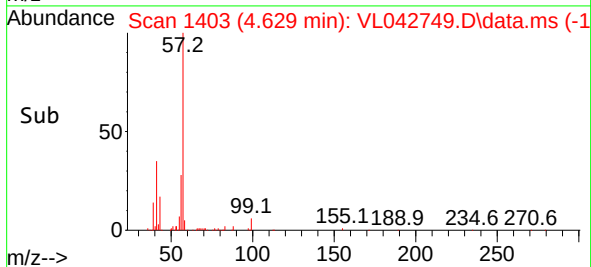
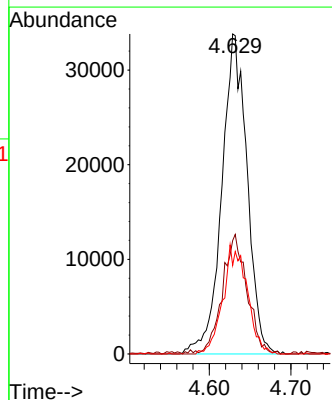
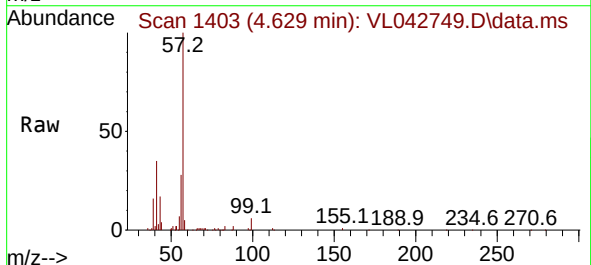
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

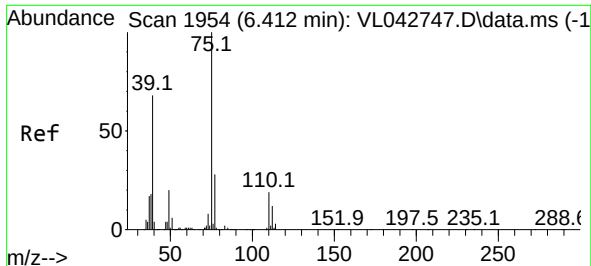
Tgt Ion: 69 Resp: 7135
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 1.026 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 72865
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.5 25.8 38.6

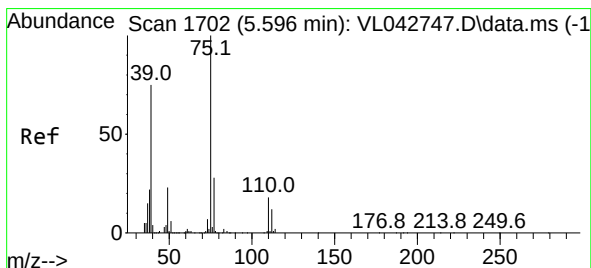
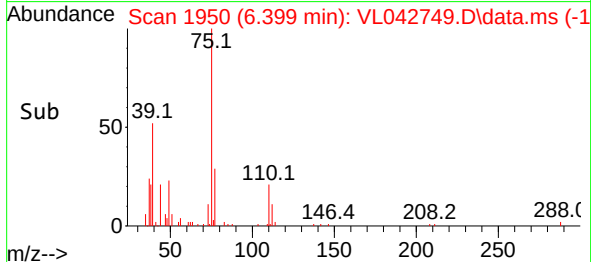
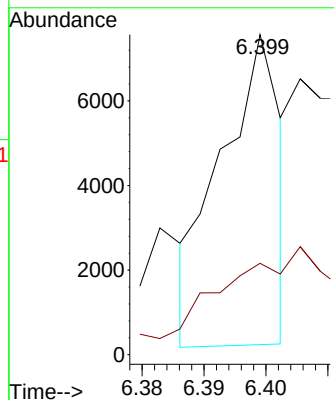
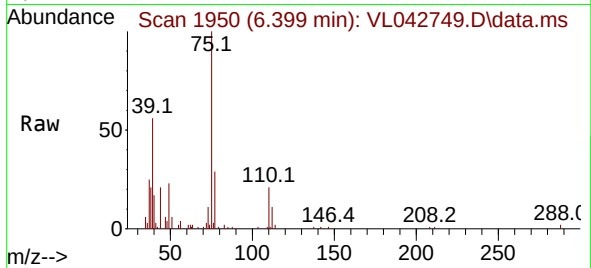




#45
t-1,3-Dichloropropene
Concen: 0.284 ppbv
RT: 6.399 min Scan# 1950
Delta R.T. -0.013 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

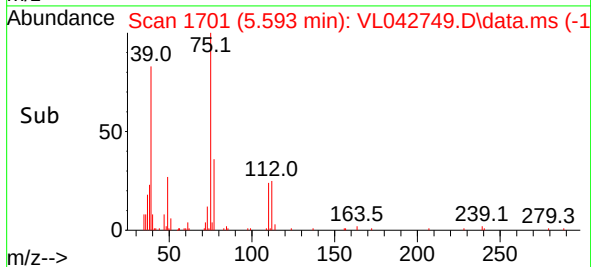
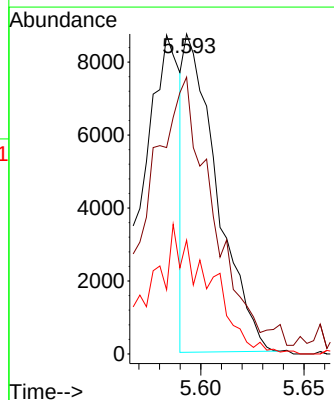
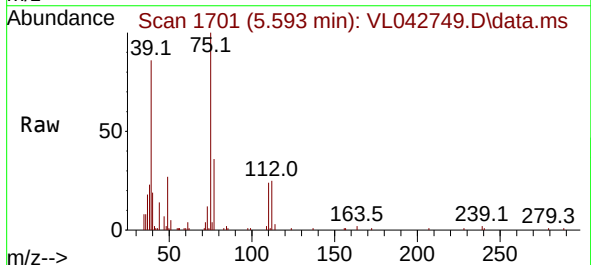
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

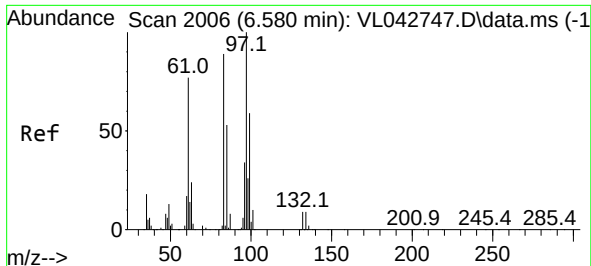
Tgt Ion: 75 Resp: 4937
Ion Ratio Lower Upper
75 100
77 28.5 22.4 33.6



#46
cis-1,3-Dichloropropene
Concen: 0.439 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 9670
Ion Ratio Lower Upper
75 100
39 78.0 60.2 90.2
77 35.3 22.6 34.0#

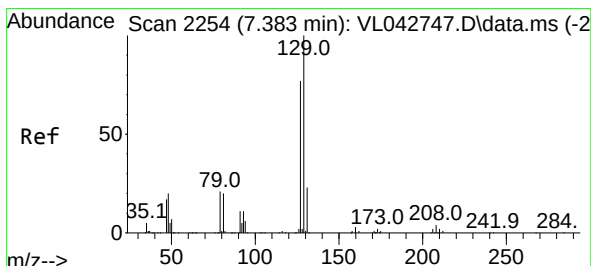
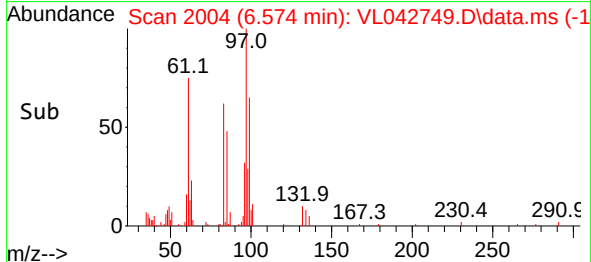
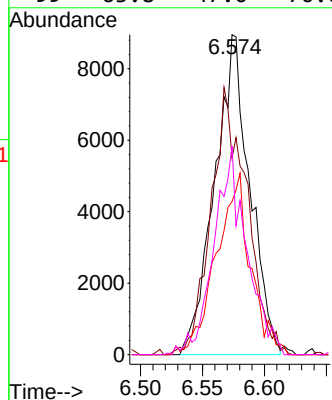
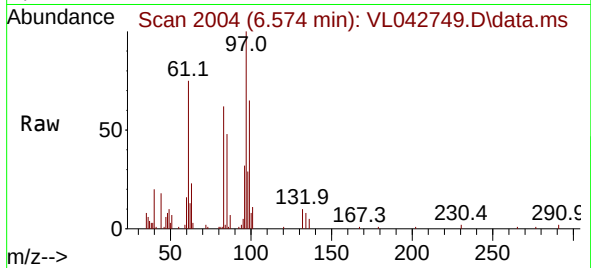




#47
1,1,2-Trichloroethane
Concen: 1.029 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

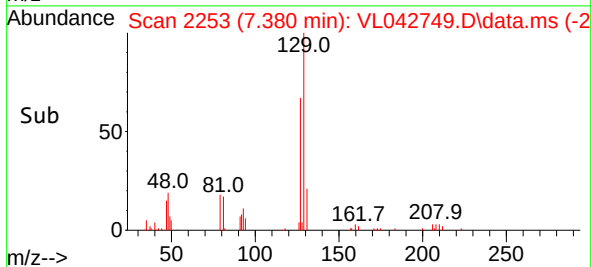
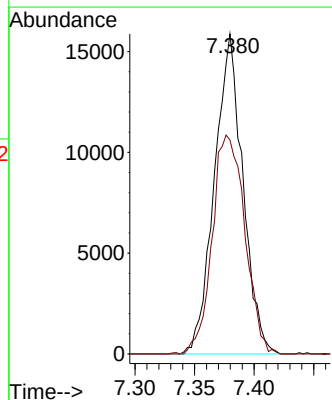
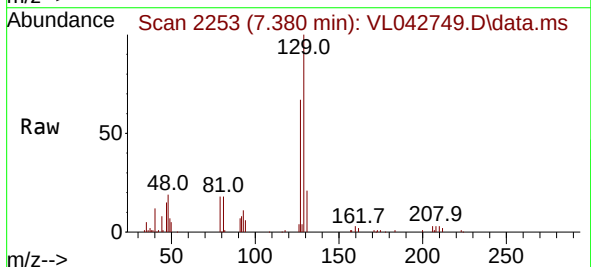
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

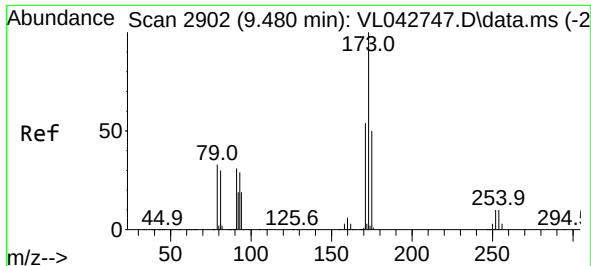
Tgt Ion: 97 Resp: 17646
Ion Ratio Lower Upper
97 100
83 60.2 71.1 106.7#
85 46.8 43.0 64.4
99 63.8 47.0 70.6



#48
Dibromochloromethane
Concen: 0.965 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 129 Resp: 26259
Ion Ratio Lower Upper
129 100
127 78.7 38.7 116.1

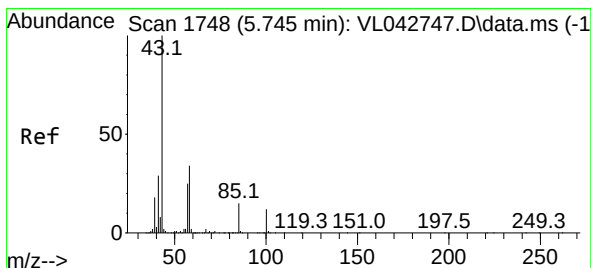
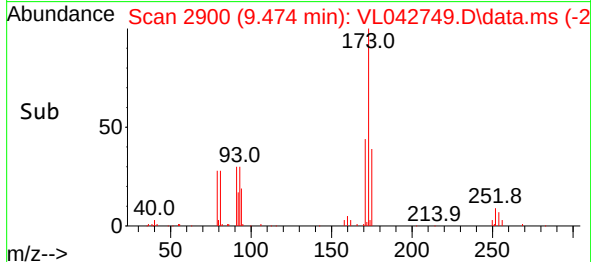
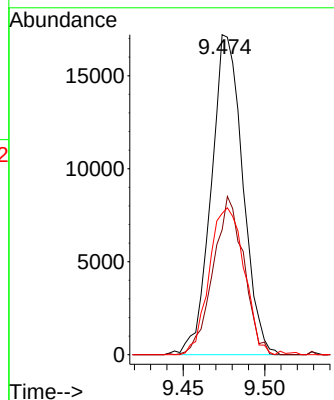
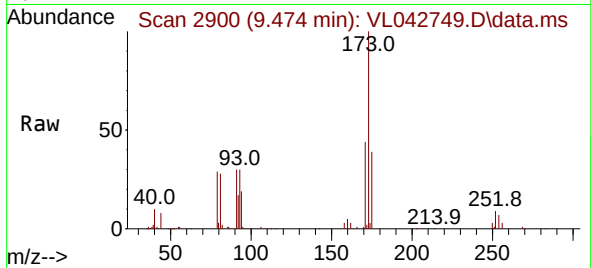




#49
Bromoform
Concen: 0.973 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

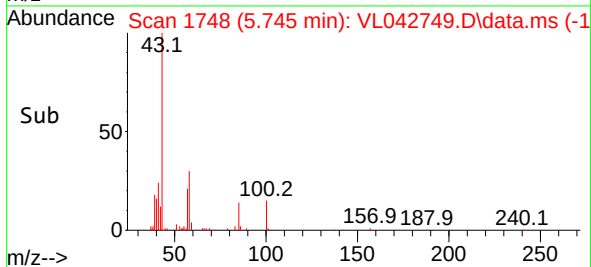
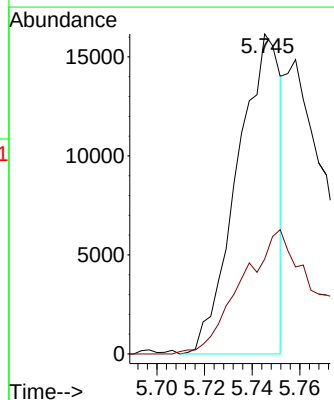
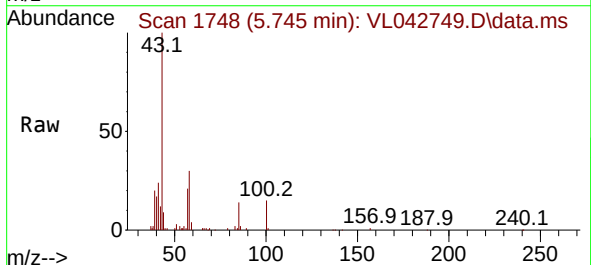
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

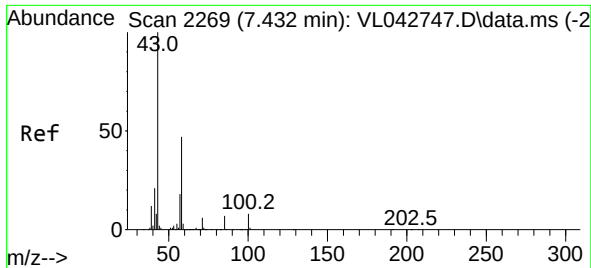
Tgt Ion:173 Resp: 23083
Ion Ratio Lower Upper
173 100
175 48.0 38.4 57.6
171 51.3 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 0.488 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 20247
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#

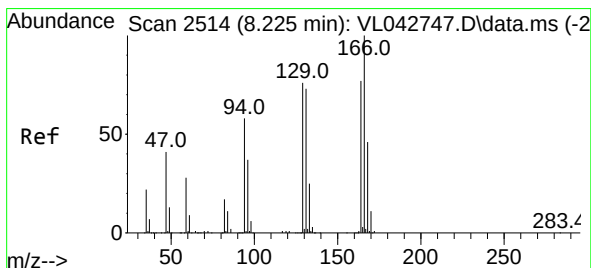
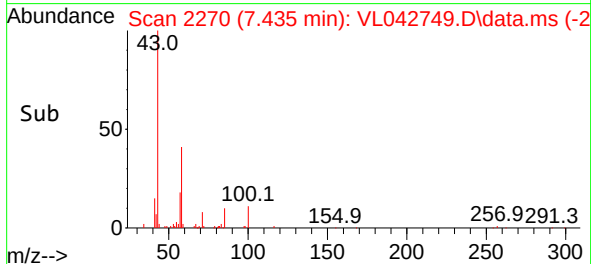
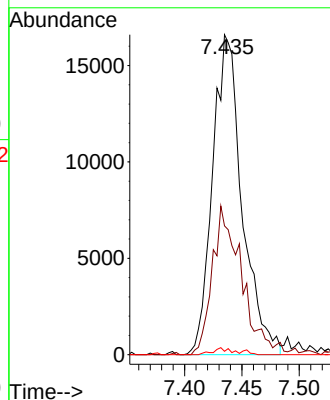
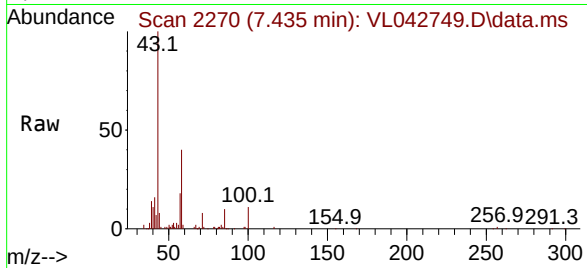




#51
2-Hexanone
Concen: 0.939 ppbv
RT: 7.435 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

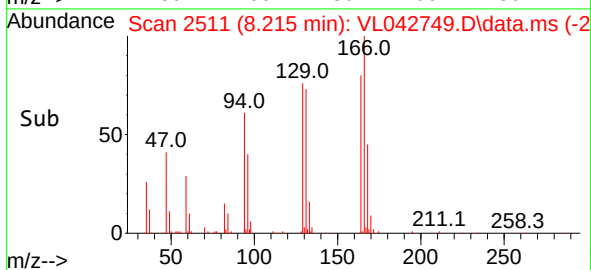
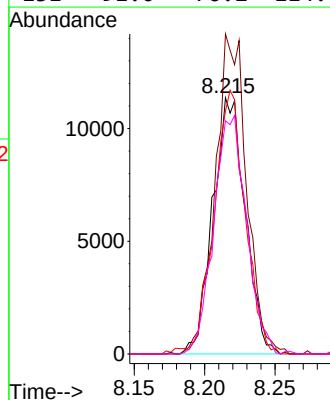
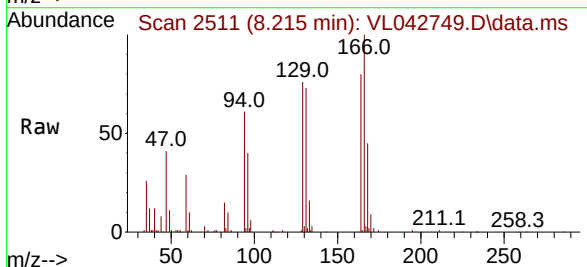
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

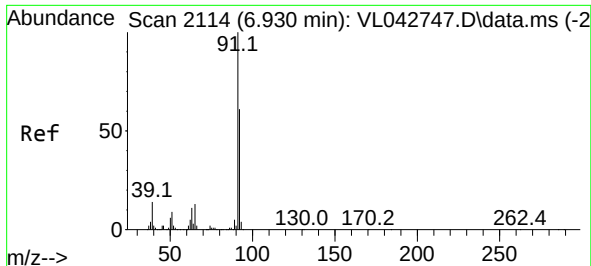
Tgt Ion: 43 Resp: 29761
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 1.6 0.2 0.4#



#52
Tetrachloroethene
Concen: 1.001 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 164 Resp: 18131
Ion Ratio Lower Upper
164 100
166 124.9 104.0 156.0
129 94.8 79.2 118.8
131 91.0 76.2 114.4

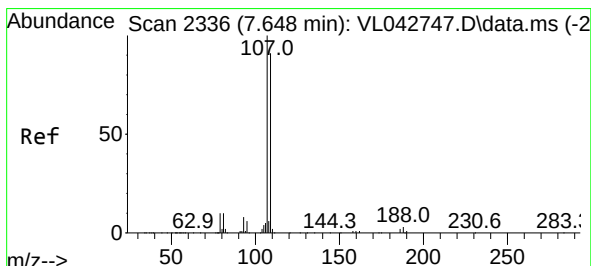
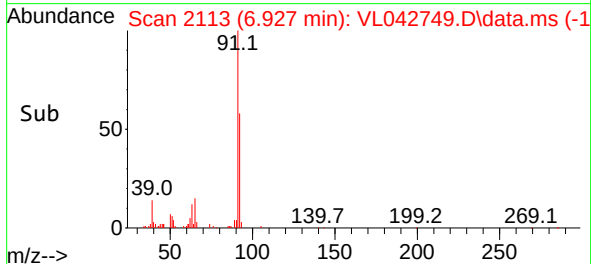
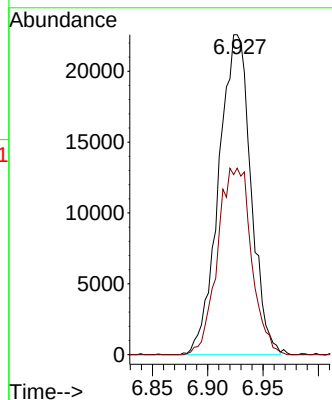
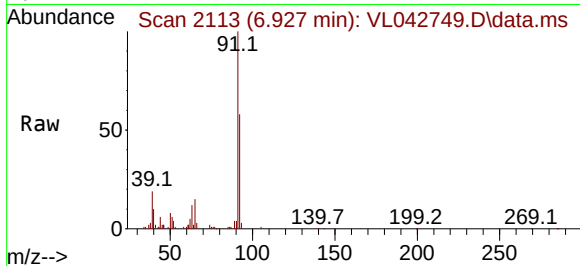




#53
Toluene
Concen: 0.976 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

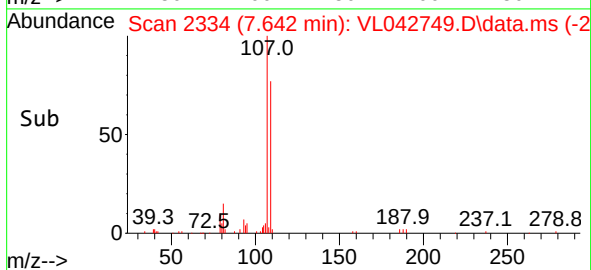
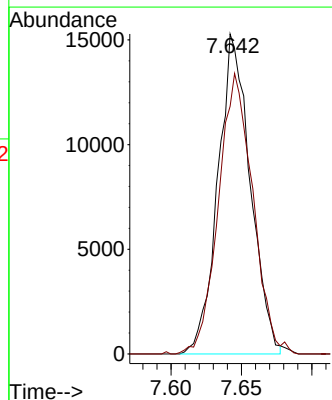
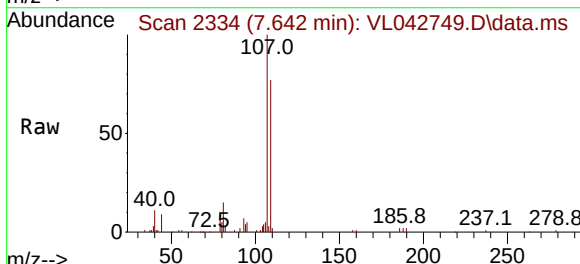
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

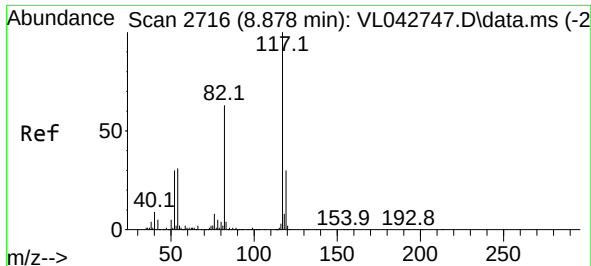
Tgt Ion: 91 Resp: 45645
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0



#54
1,2-Dibromoethane
Concen: 1.007 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 107 Resp: 24427
Ion Ratio Lower Upper
107 100
109 76.9 72.7 109.1

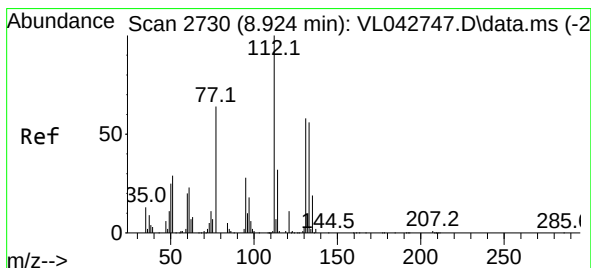
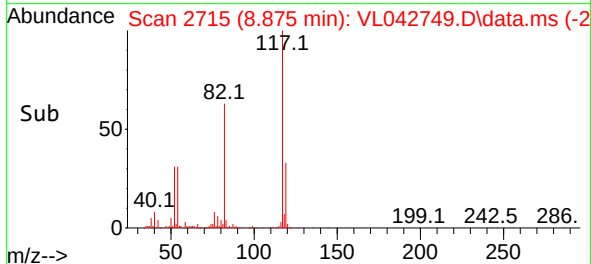
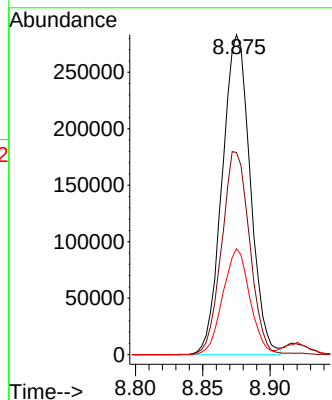
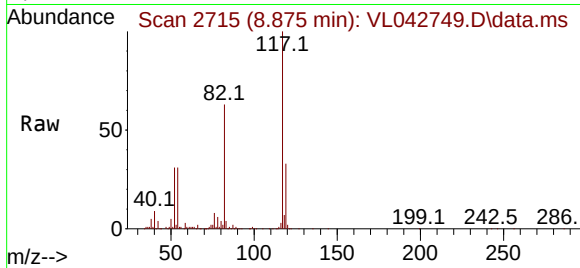




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

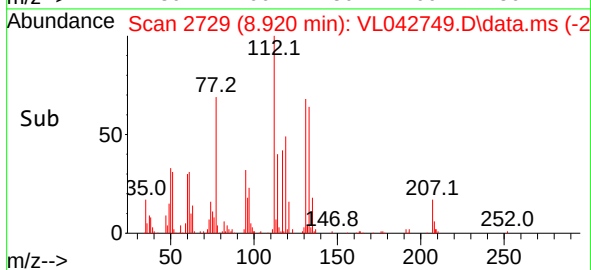
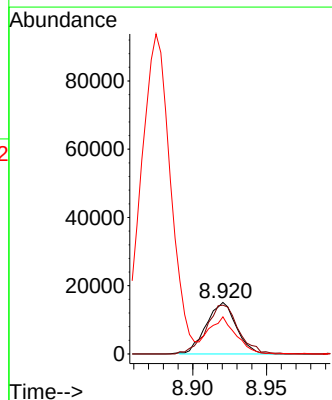
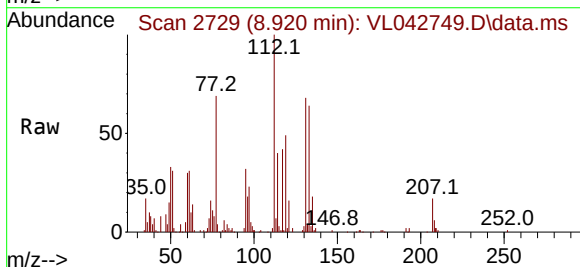
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

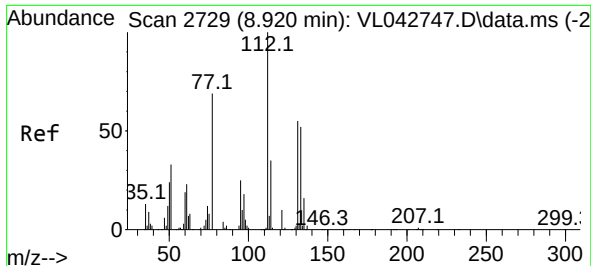
Tgt Ion:117 Resp: 410018
Ion Ratio Lower Upper
117 100
82 63.5 53.3 79.9
119 32.0 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:131 Resp: 21319
Ion Ratio Lower Upper
131 100
133 102.0 76.8 115.2
119 58.6 49.7 74.5

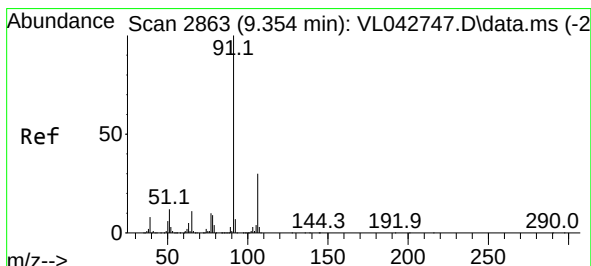
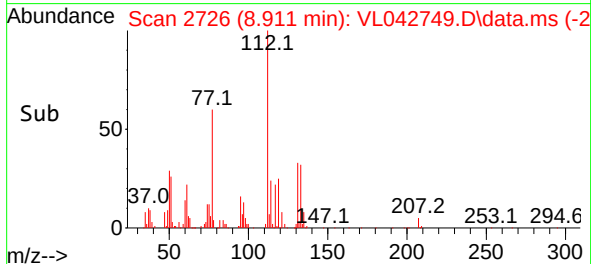
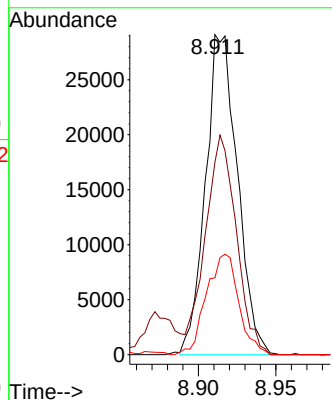
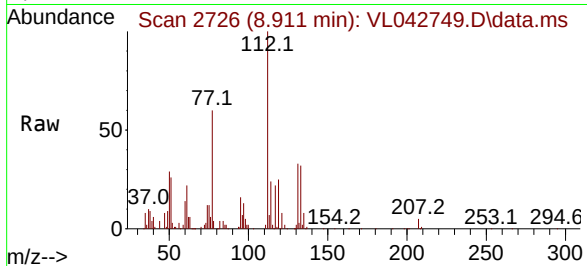




#57
Chlorobenzene
Concen: 1.053 ppbv
RT: 8.911 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

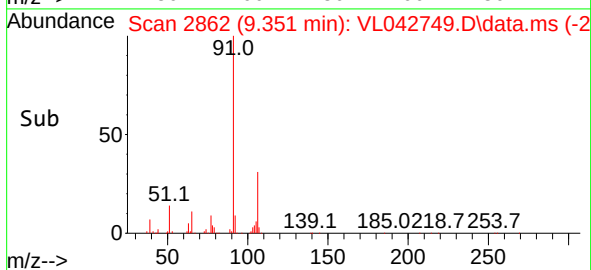
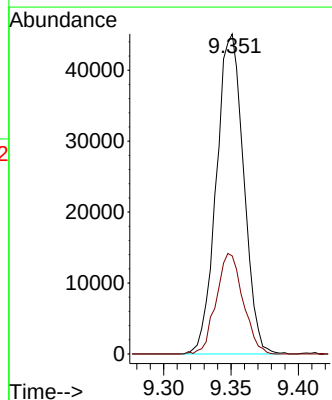
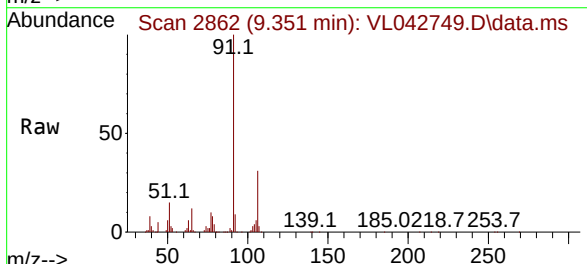
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

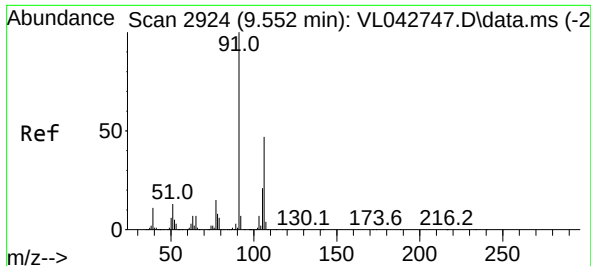
Tgt Ion:112 Resp: 41788
Ion Ratio Lower Upper
112 100
77 60.1 56.4 84.6
114 24.0 31.2 38.2#



#58
Ethyl Benzene
Concen: 0.980 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 63467
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6





#59

m/p-Xylene

Concen: 0.849 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

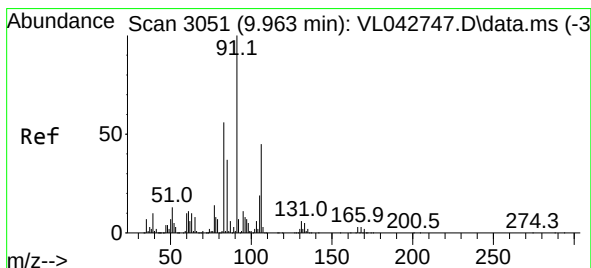
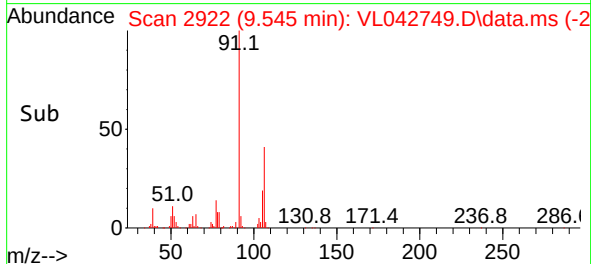
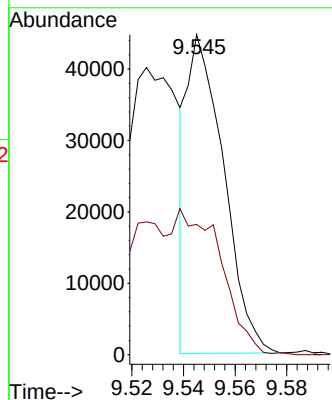
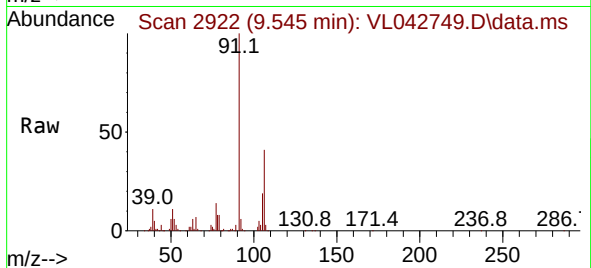
VSTDIC001

Tgt Ion: 91 Resp: 43966

Ion Ratio Lower Upper

91 100

106 111.6 37.4 56.2#



#60

o-Xylene

Concen: 1.015 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042749.D

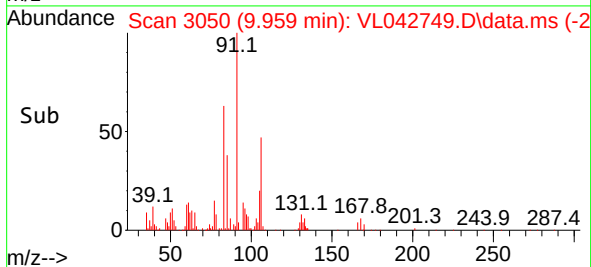
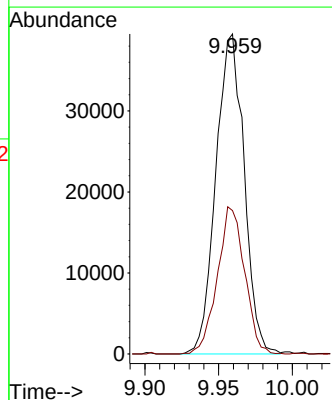
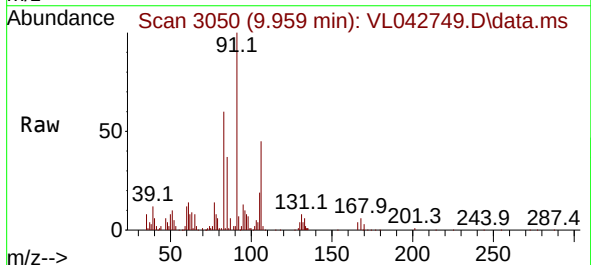
Acq: 23 Jul 2025 10:08

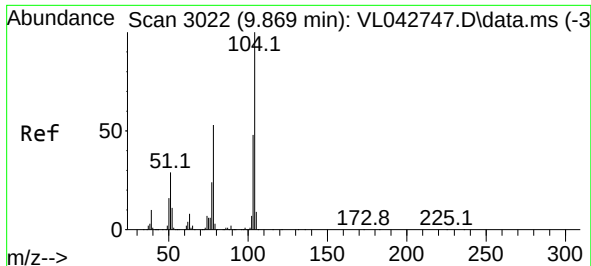
Tgt Ion: 91 Resp: 52499

Ion Ratio Lower Upper

91 100

106 44.6 22.0 66.0

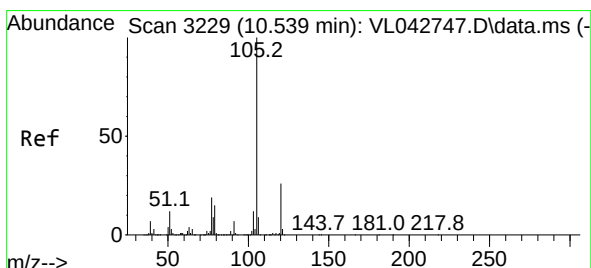
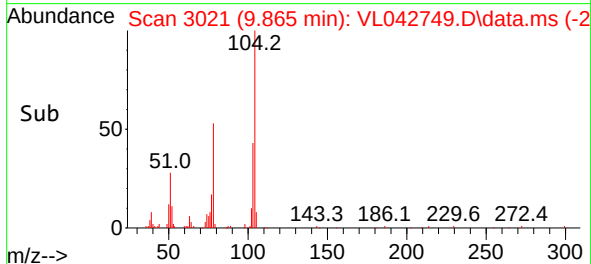
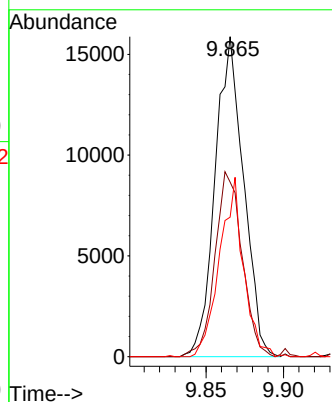
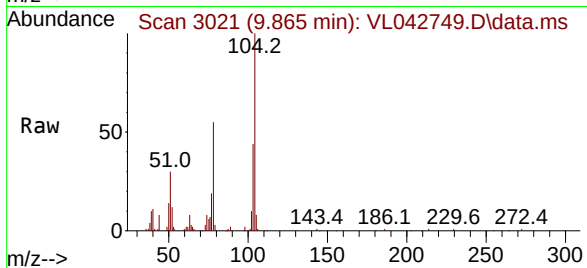




#61
Styrene
Concen: 0.934 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

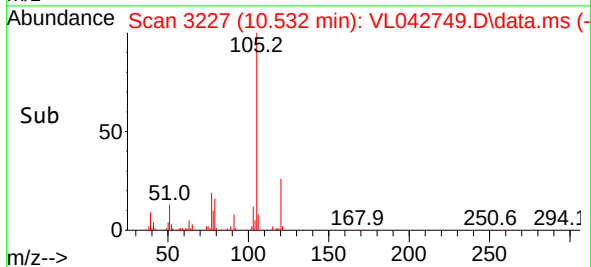
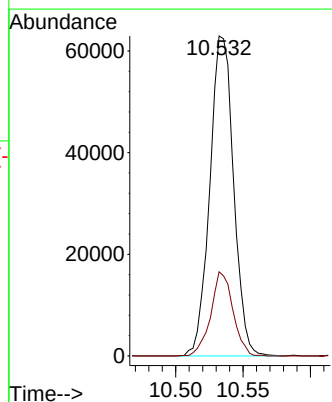
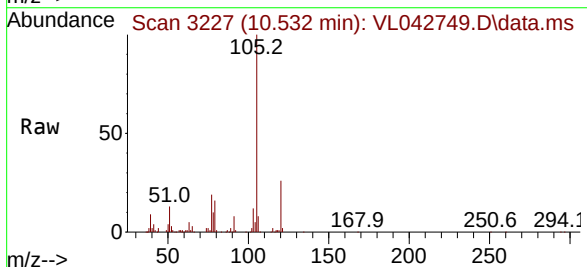
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

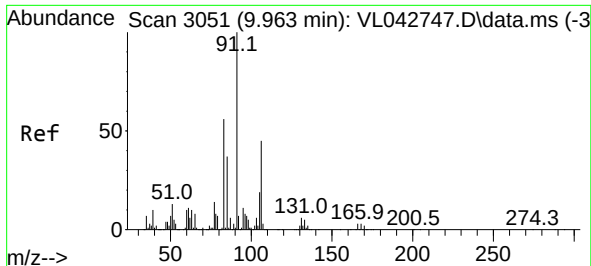
Tgt Ion:104 Resp: 20313
Ion Ratio Lower Upper
104 100
78 55.7 41.5 62.3
103 47.2 37.5 56.3



#62
Isopropylbenzene
Concen: 1.013 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 77278
Ion Ratio Lower Upper
105 100
120 24.6 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.967 ppbv

RT: 9.956 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

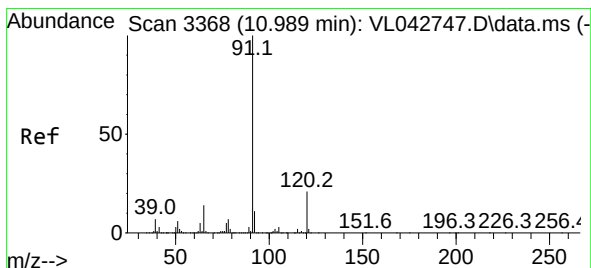
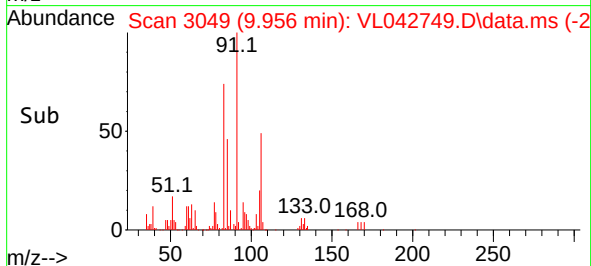
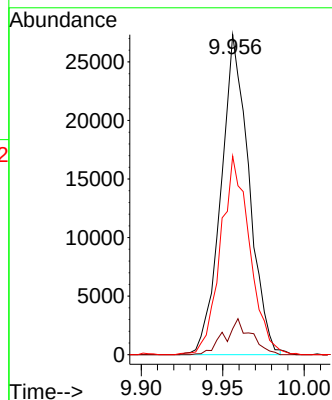
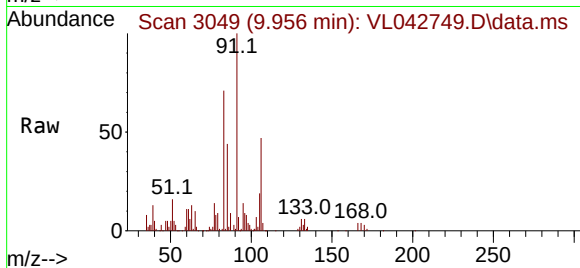
Tgt Ion: 83 Resp: 32591

Ion Ratio Lower Upper

83 100

131 10.6 5.0 15.0

85 65.1 32.6 97.7



#64

n-propylbenzene

Concen: 1.009 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042749.D

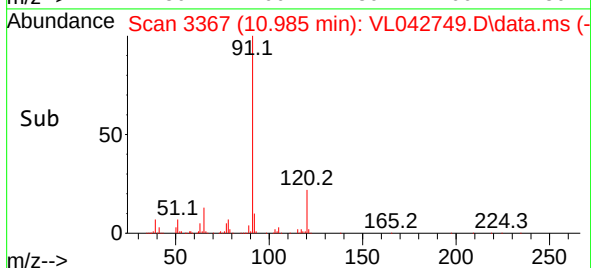
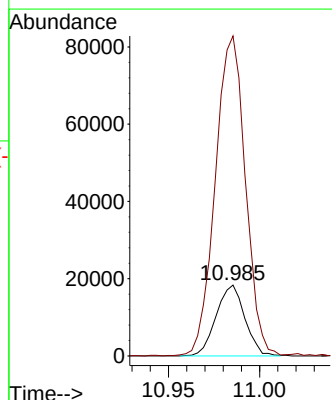
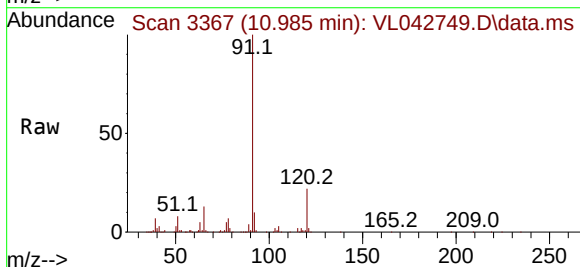
Acq: 23 Jul 2025 10:08

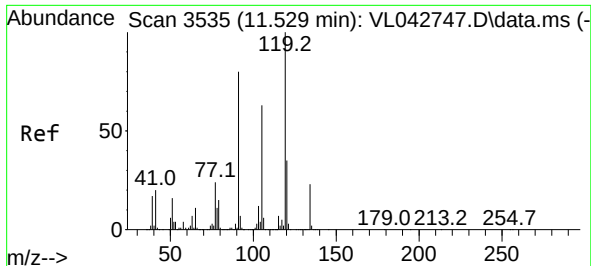
Tgt Ion: 120 Resp: 20073

Ion Ratio Lower Upper

120 100

91 478.1 372.7 559.1

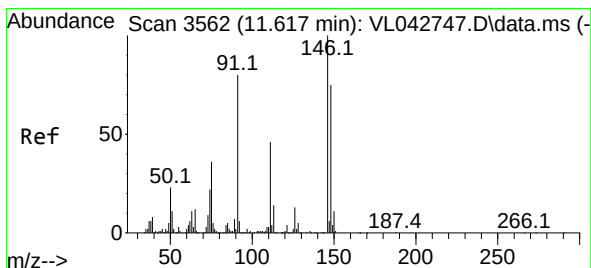
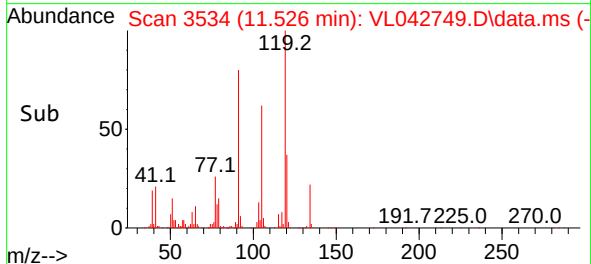
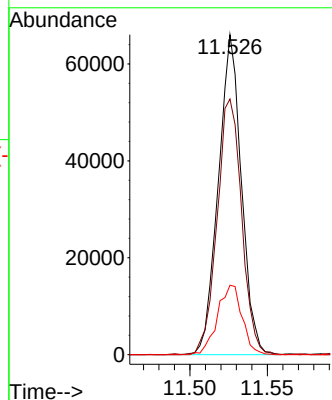
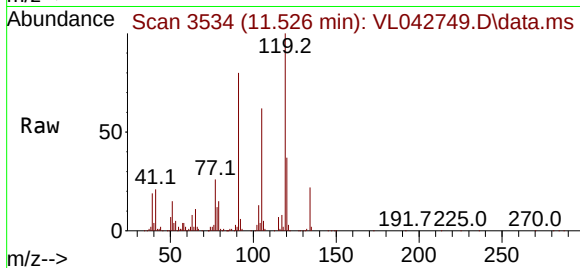




#65
tert-Butylbenzene
Concen: 1.010 ppbv
RT: 11.526 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

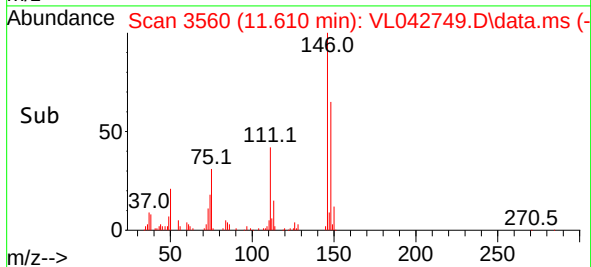
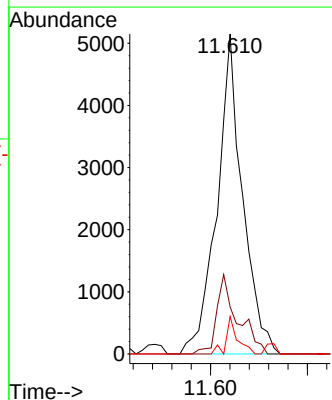
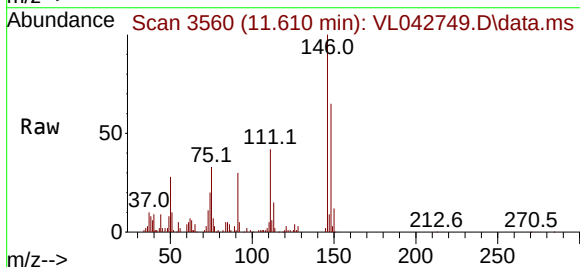
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

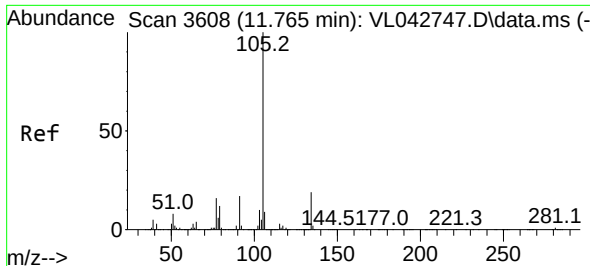
Tgt Ion:119 Resp: 68428
Ion Ratio Lower Upper
119 100
91 85.1 64.0 96.0
134 23.1 17.3 25.9



#66
Benzyl Chloride
Concen: 0.845 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 4700
Ion Ratio Lower Upper
91 100
126 20.3 14.4 21.6
128 6.5 5.2 7.8

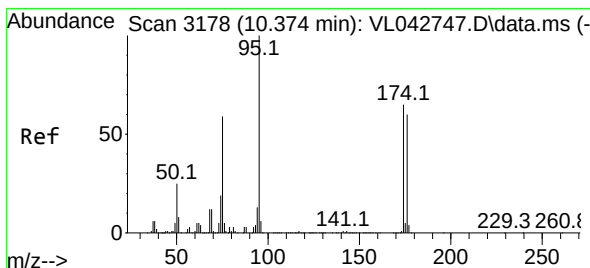
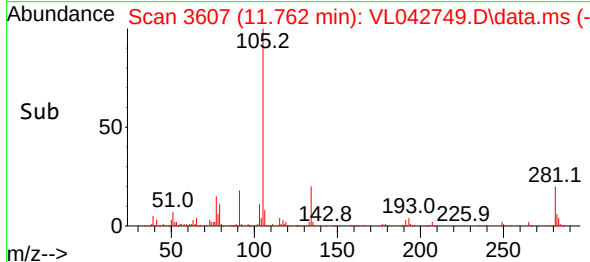
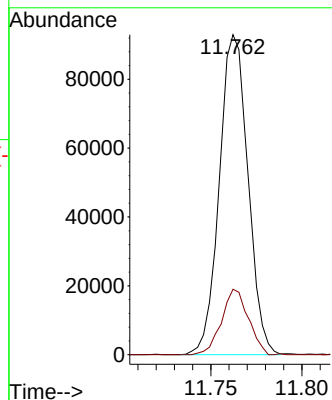
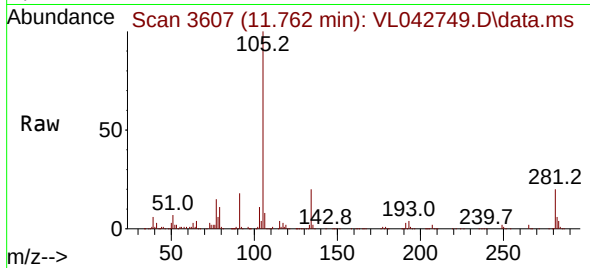




#67
 sec-Butylbenzene
 Concen: 1.053 ppbv
 RT: 11.762 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

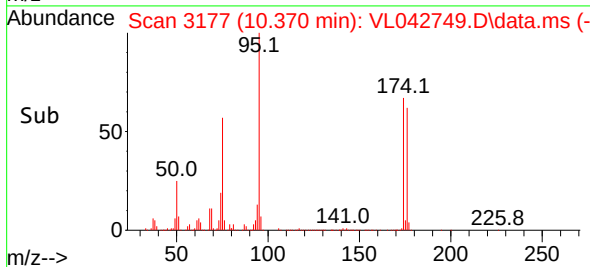
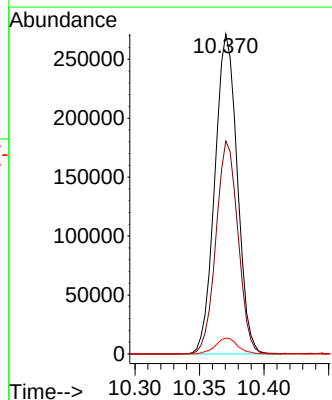
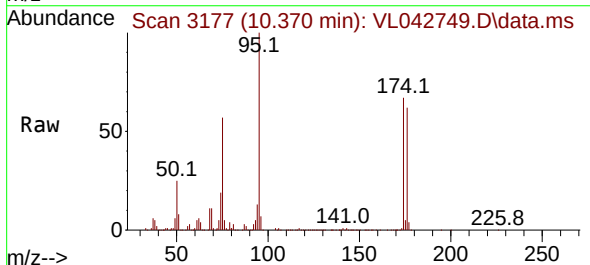
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

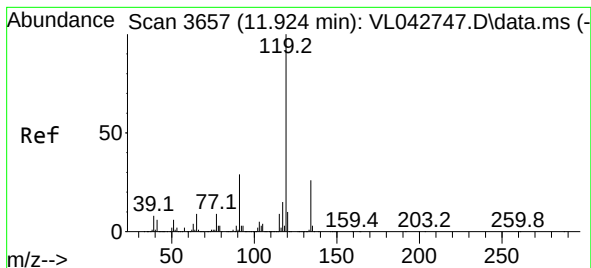
Tgt Ion:105 Resp: 101458
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.091 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 95 Resp: 327673
 Ion Ratio Lower Upper
 95 100
 174 65.4 53.8 80.6
 175 5.0 4.0 6.0

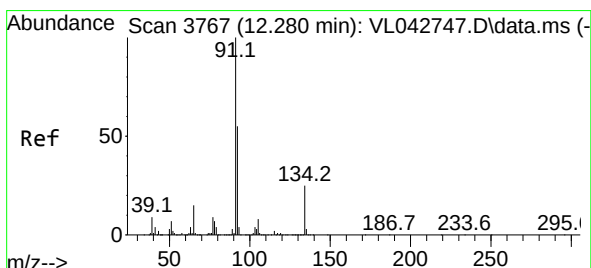
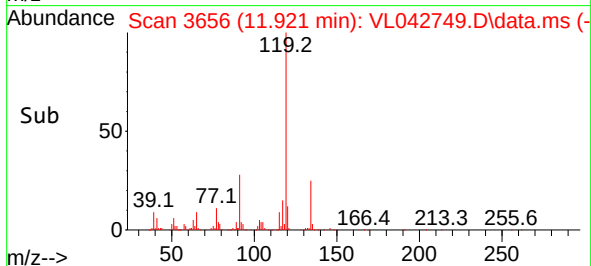
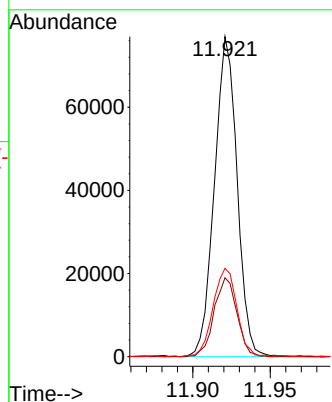
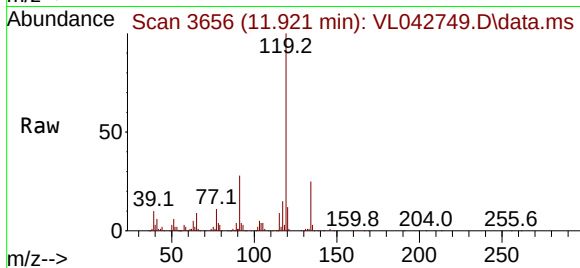




#69
 p-Isopropyltoluene
 Concen: 0.995 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

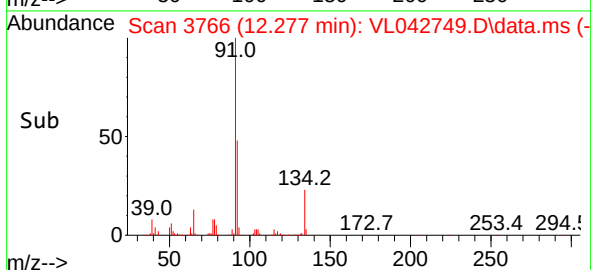
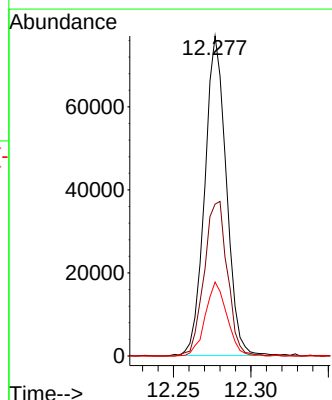
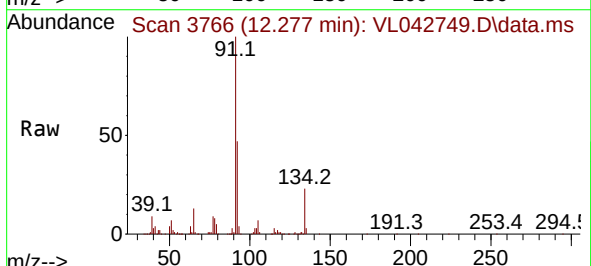
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

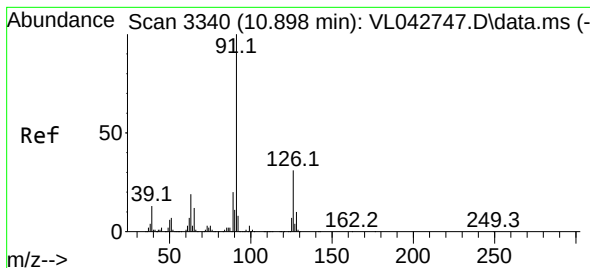
Tgt Ion:119 Resp: 78186
 Ion Ratio Lower Upper
 119 100
 134 24.8 20.6 31.0
 91 29.8 23.2 34.8



#70
 n-Butylbenzene
 Concen: 0.978 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 74257
 Ion Ratio Lower Upper
 91 100
 92 52.4 43.4 65.2
 134 23.4 19.6 29.4

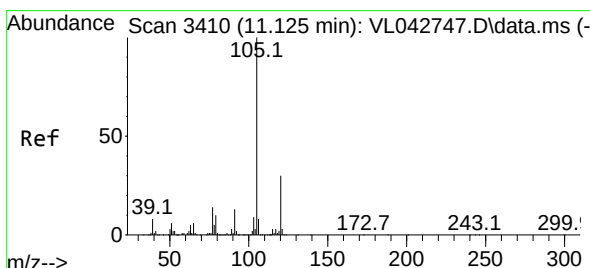
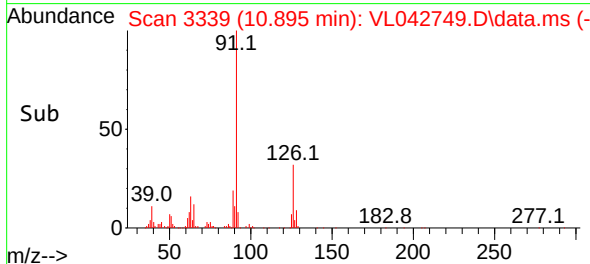
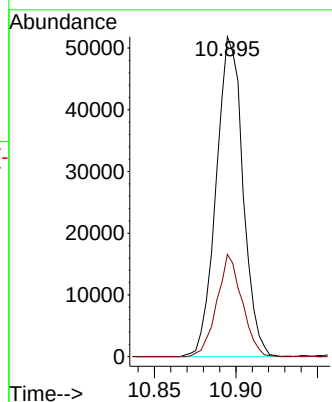
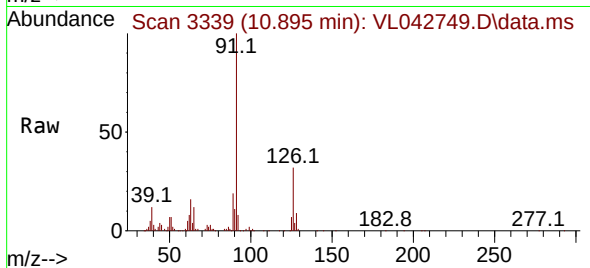




#71
2-Chlorotoluene
Concen: 1.012 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

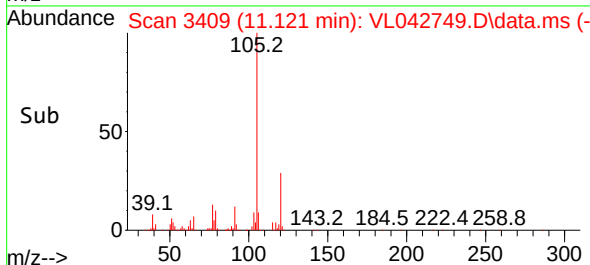
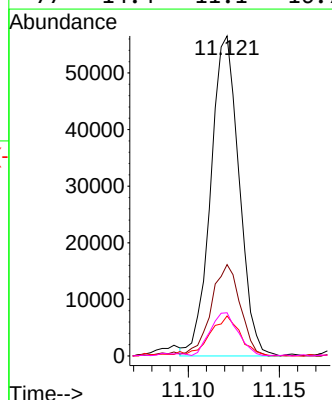
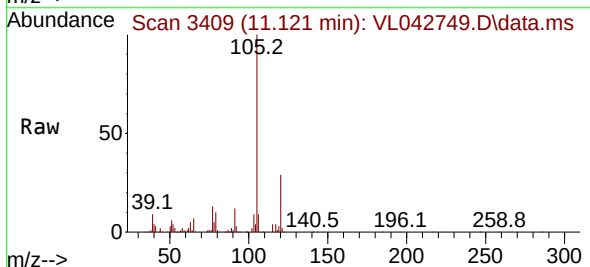
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

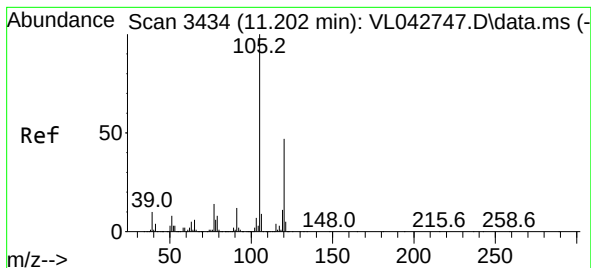
Tgt Ion: 91 Resp: 59193
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.991 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 61199
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 14.2 10.6 15.8
77 14.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.962 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

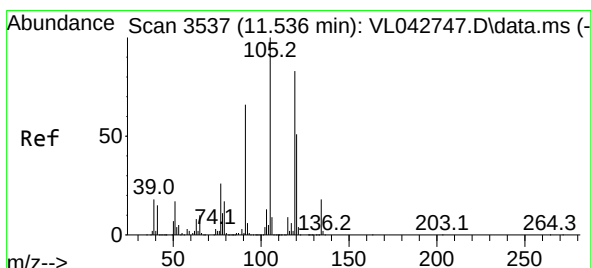
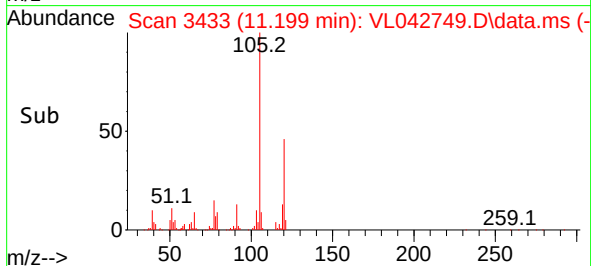
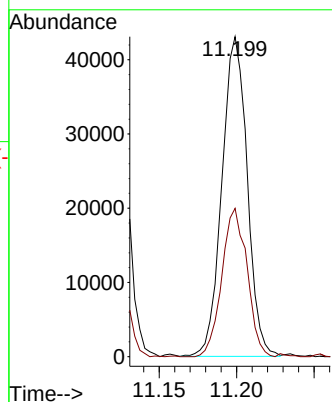
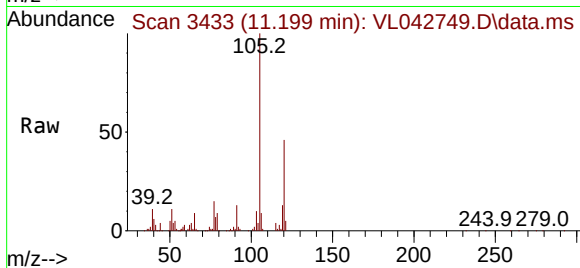
VSTDIC001

Tgt Ion:105 Resp: 48901

Ion Ratio Lower Upper

105 100

120 46.4 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.994 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 55153

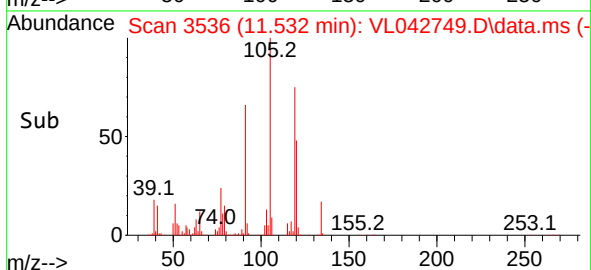
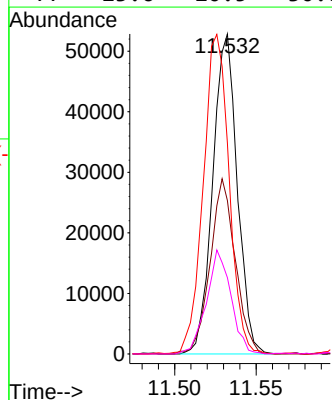
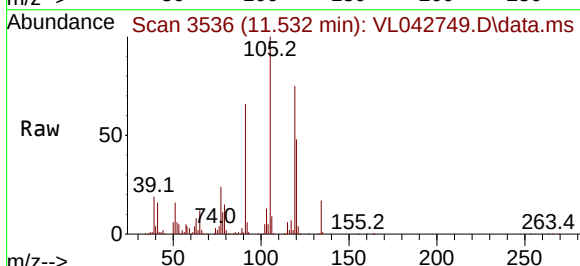
Ion Ratio Lower Upper

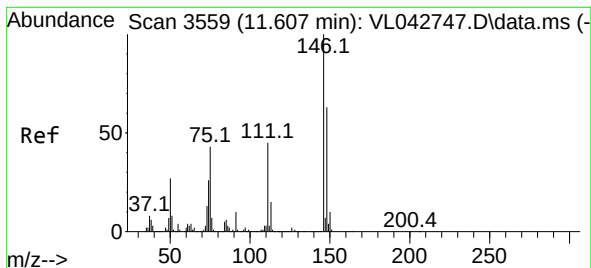
105 100

120 48.0 40.8 61.2

91 65.8 53.0 79.4

77 23.6 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 1.022 ppbv

RT: 11.600 min Scan# 3559

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

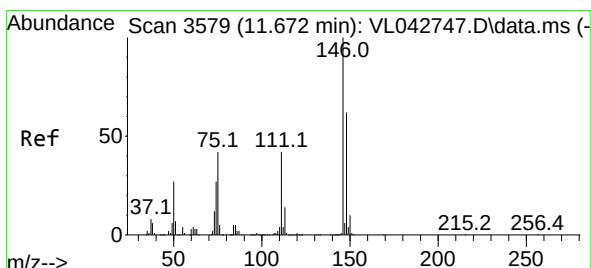
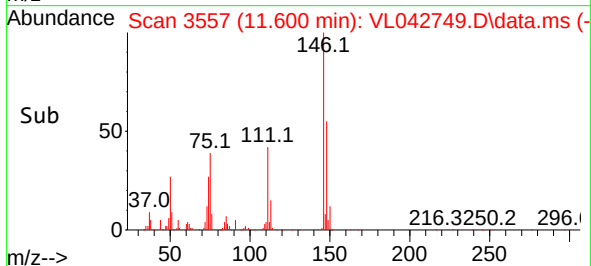
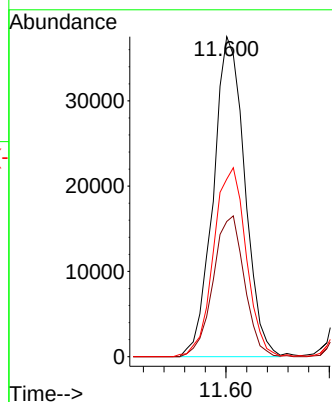
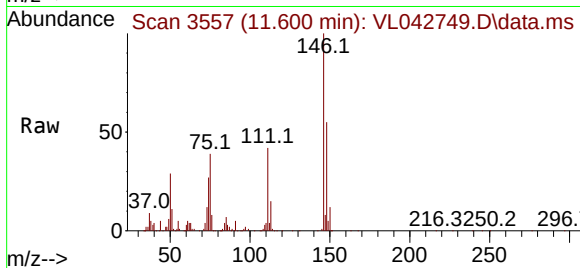
Tgt Ion:146 Resp: 39753

Ion Ratio Lower Upper

146 100

111 43.6 22.7 68.0

148 61.0 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.999 ppbv

RT: 11.665 min Scan# 3577

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

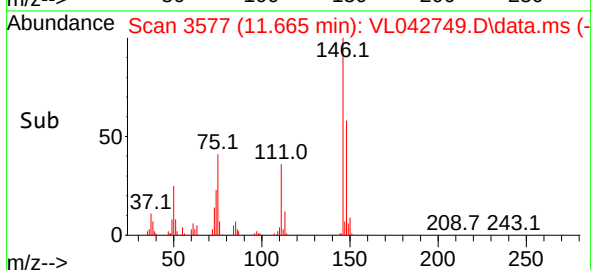
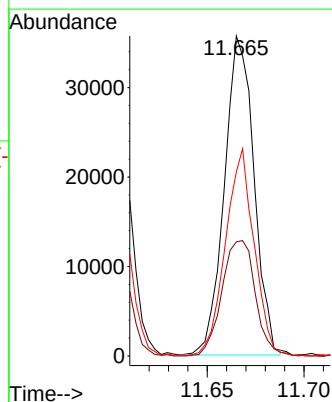
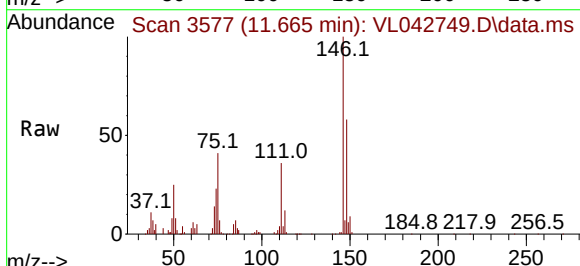
Tgt Ion:146 Resp: 38018

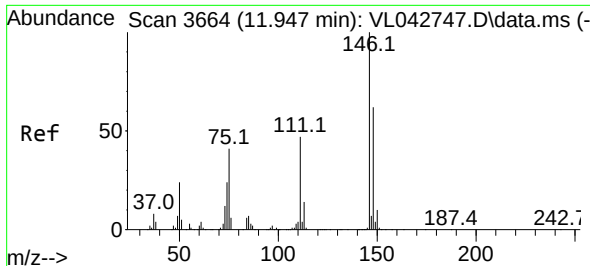
Ion Ratio Lower Upper

146 100

111 40.8 21.4 64.2

148 63.1 32.1 96.3

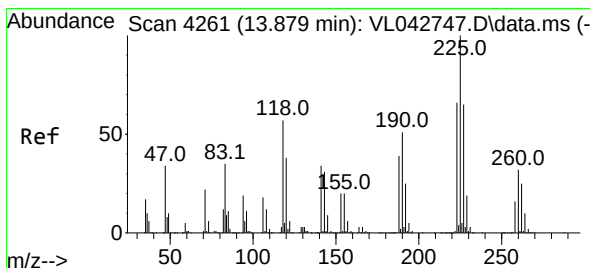
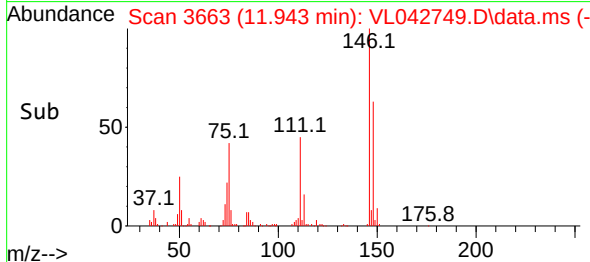
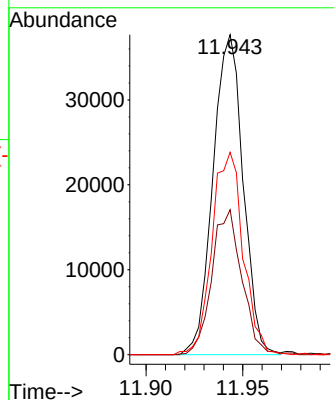
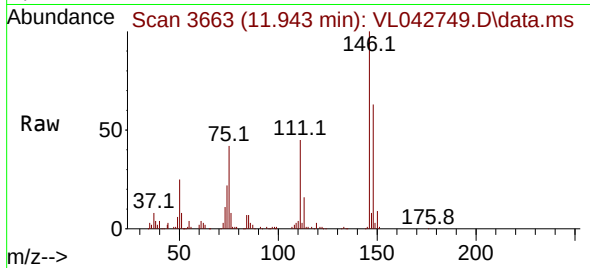




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

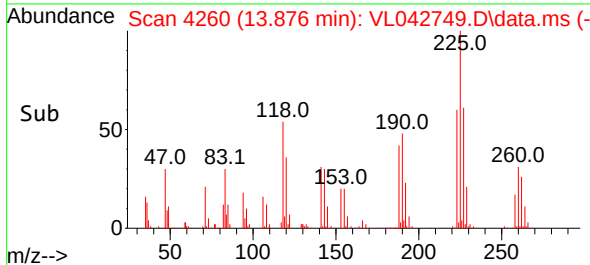
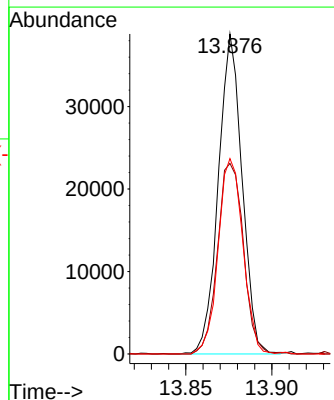
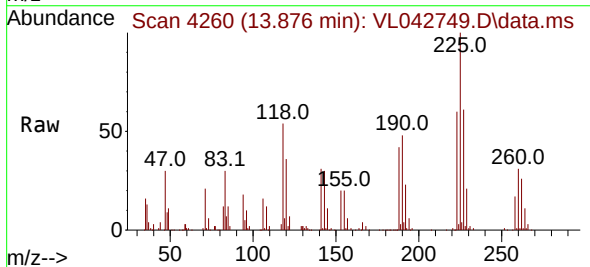
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

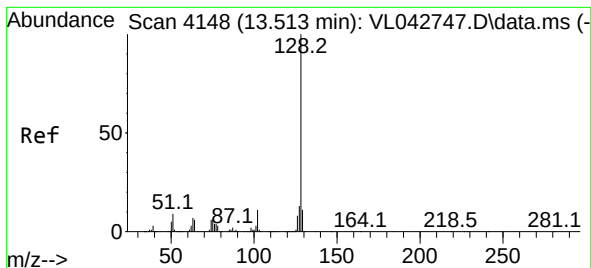
Tgt Ion:146 Resp: 40835
Ion Ratio Lower Upper
146 100
111 45.3 23.7 71.1
148 65.5 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 1.076 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:225 Resp: 37228
Ion Ratio Lower Upper
225 100
223 65.2 50.7 76.1
227 63.9 50.5 75.7





#79

Naphthalene

Concen: 0.907 ppbv

RT: 13.510 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

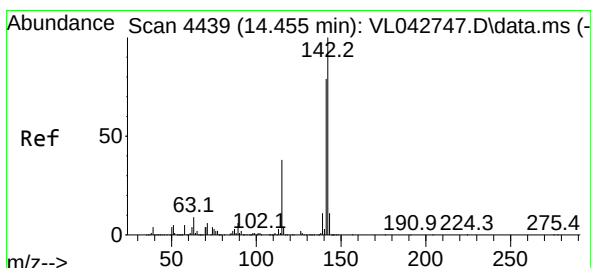
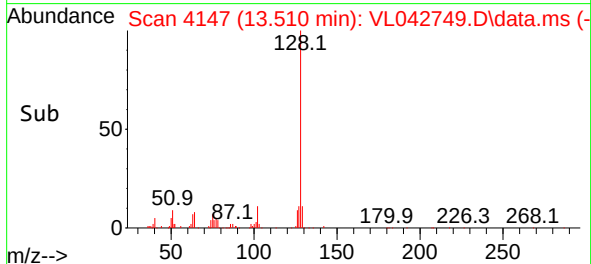
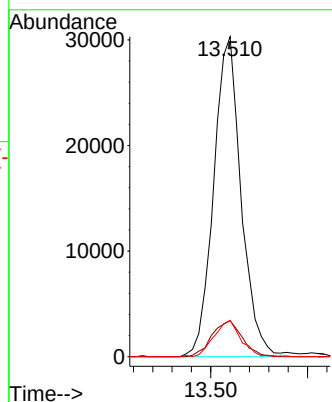
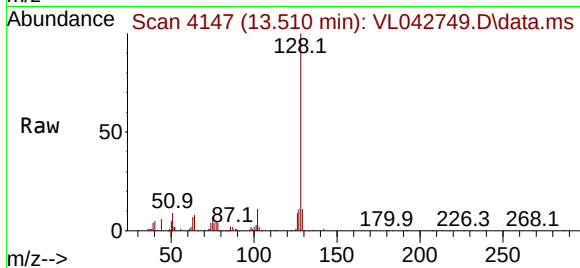
Tgt Ion:128 Resp: 29792

Ion Ratio Lower Upper

128 100

127 11.3 10.5 15.7

129 11.4 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 1.184 ppbv

RT: 14.449 min Scan# 4437

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

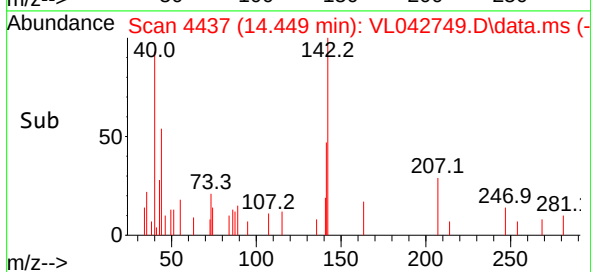
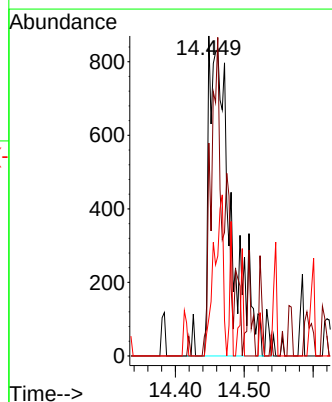
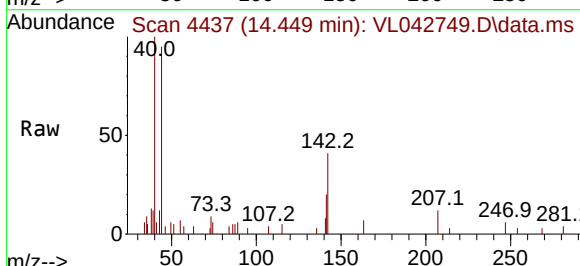
Tgt Ion:142 Resp: 1950

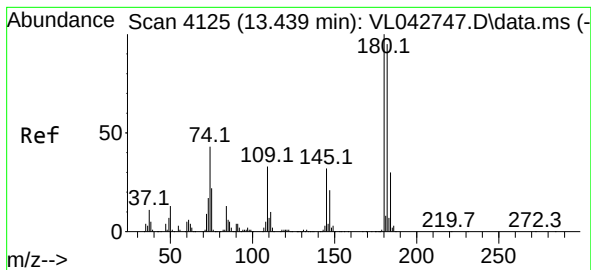
Ion Ratio Lower Upper

142 100

141 63.5 65.8 98.8#

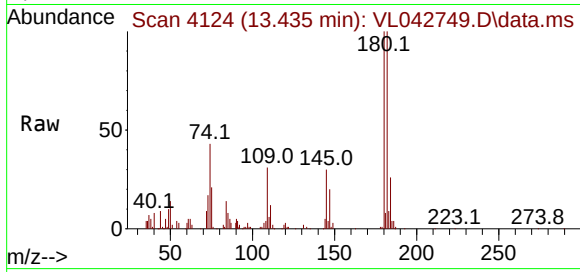
115 25.1 31.2 46.8#



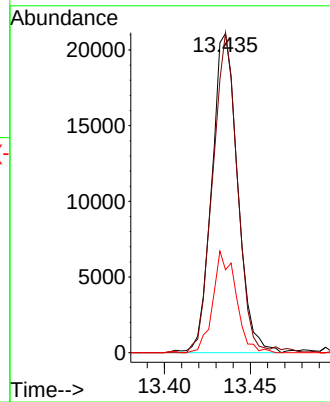
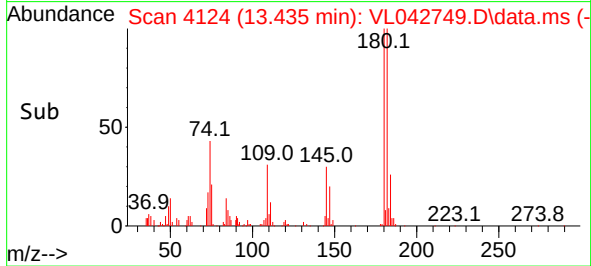


#81
 1,2,4-Trichlorobenzene
 Concen: 1.053 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:	180	Resp:	21929
Ion Ratio	Lower	Upper	
180	100		
182	96.7	76.2	114.2
184	28.7	24.8	37.2



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

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 26 06:05:16 2022
 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	9190	0.361	ppbv #	66
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	781	0.087	ppbv #	1
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	9150	0.448	ppbv	89
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv #	90
40) 1,4-Dioxane	4.593	88	1378	0.187	ppbv #	21
41) Tetrahydrofuran	3.056	42	4590	0.289	ppbv #	42
42) Bromodichloromethane	4.487	83	10591	0.318	ppbv #	95
43) Methyl Methacrylate	4.881	69	5938	0.394	ppbv #	79
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv	93
45) t-1,3-Dichloropropene	6.412	75	5781	0.342	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

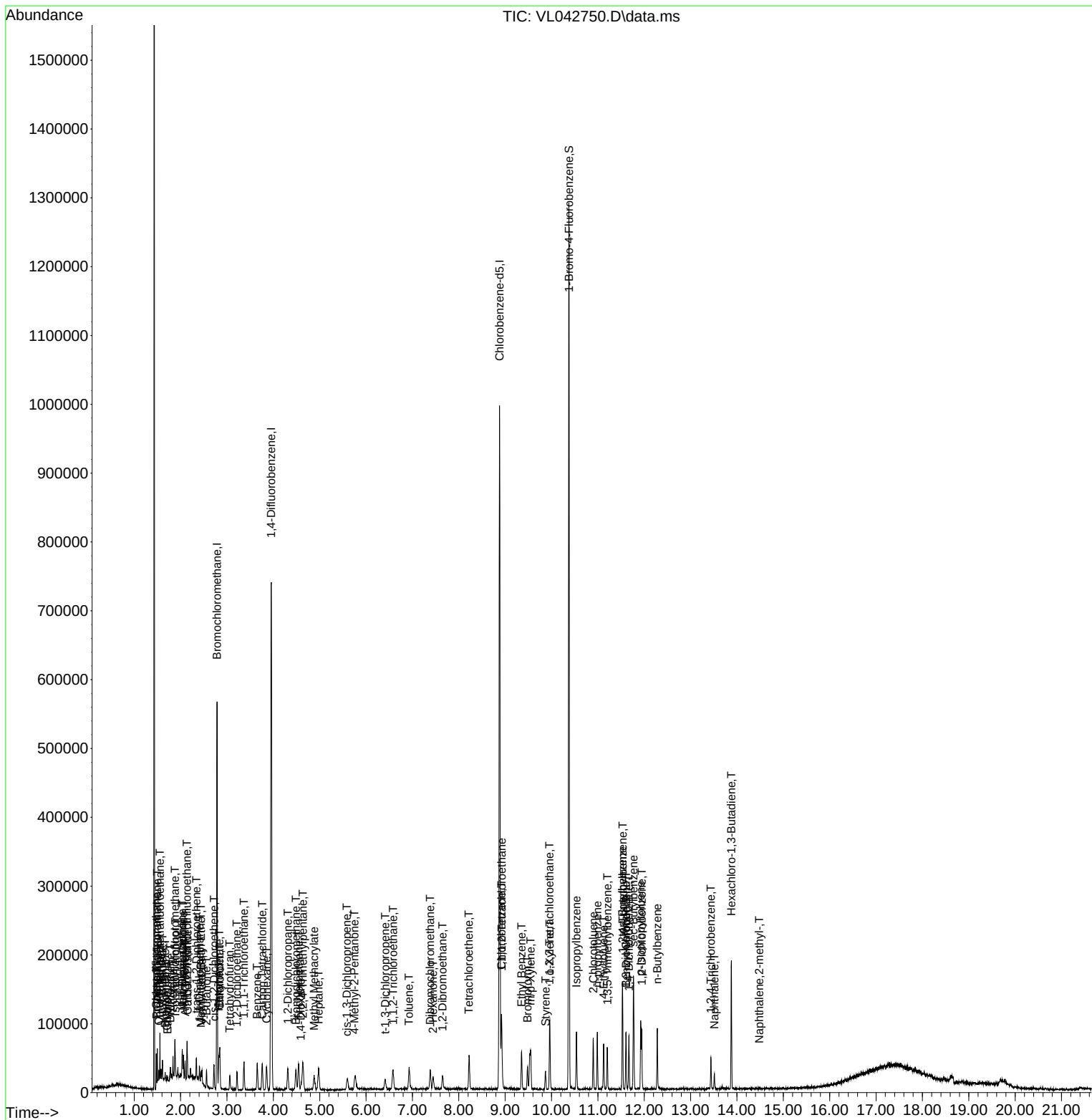
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

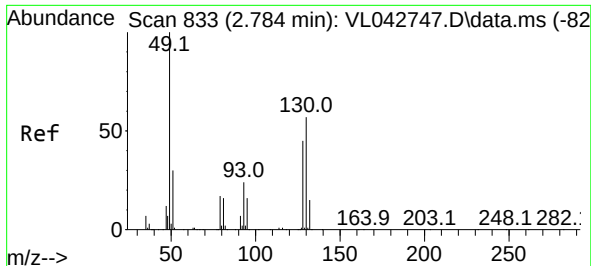
Quant Time: Jul 24 04:58:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	3465	0.162	ppbv	90
47) 1,1,2-Trichloroethane	6.584	97	4878	0.293	ppbv #	88
48) Dibromochloromethane	7.383	129	8515	0.322	ppbv #	49
49) Bromoform	9.481	173	10801	0.468	ppbv	97
50) 4-Methyl-2-Pentanone	5.752	43	5736	0.142	ppbv #	40
51) 2-Hexanone	7.442	43	6572	0.213	ppbv #	30
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	6536	0.277	ppbv	82
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	17145	0.332	ppbv #	1
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	11.607	91	845	0.152	ppbv #	28
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

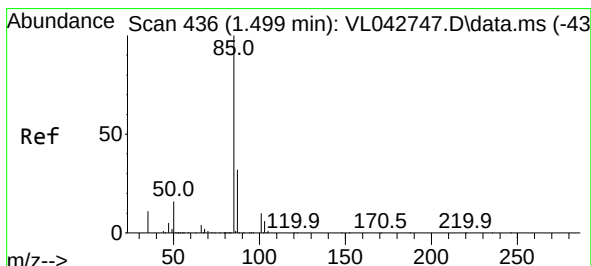
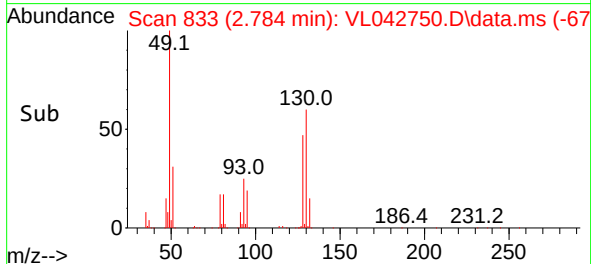
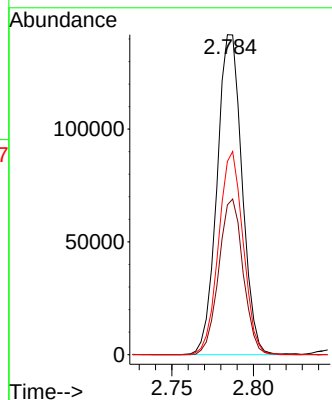
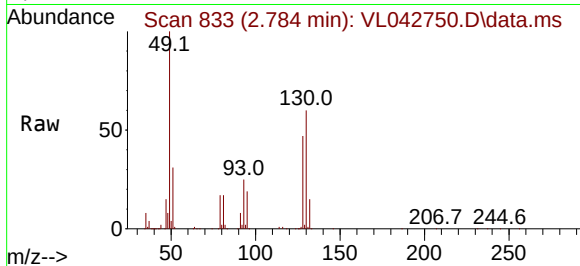




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

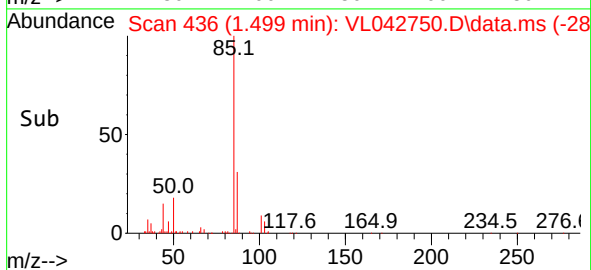
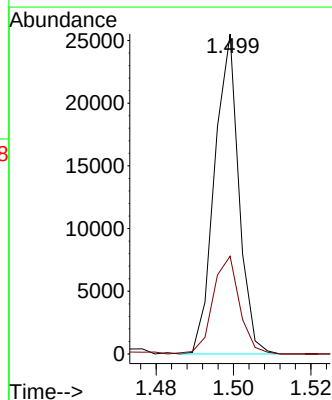
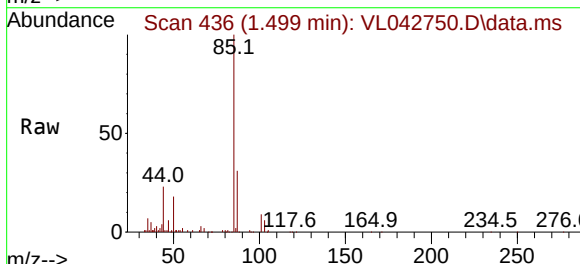
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

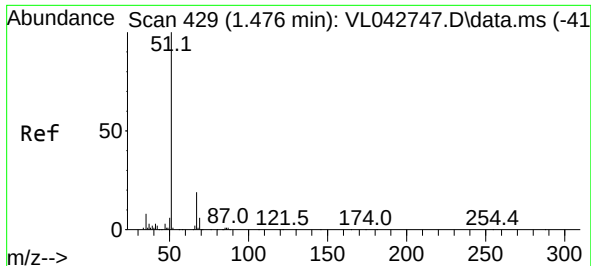
Tgt Ion: 49 Resp: 151256
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 62.2 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.555 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 11099
 Ion Ratio Lower Upper
 85 100
 87 30.6 25.4 38.2

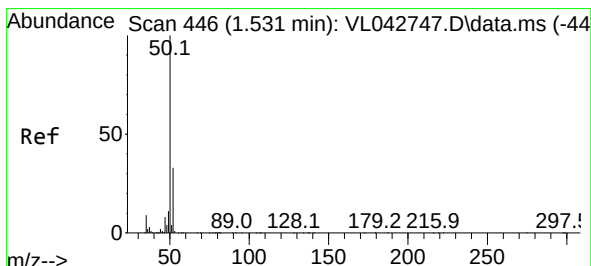
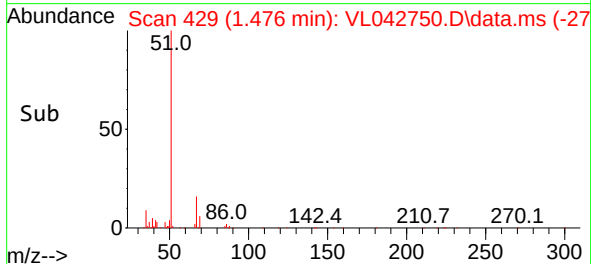
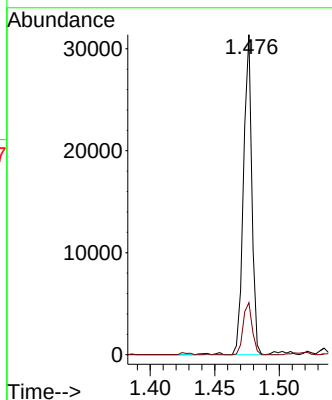
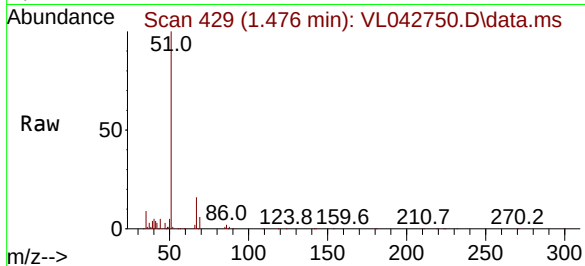




#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

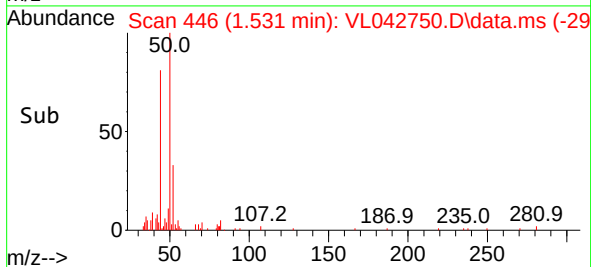
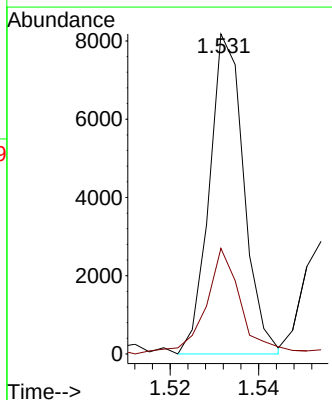
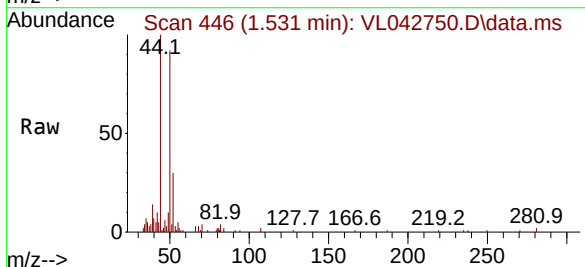
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

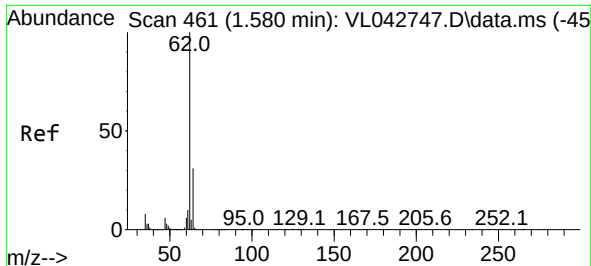
Tgt Ion: 51 Resp: 14291
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.6



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 50 Resp: 4428
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

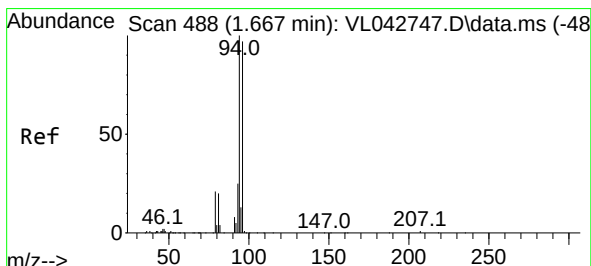
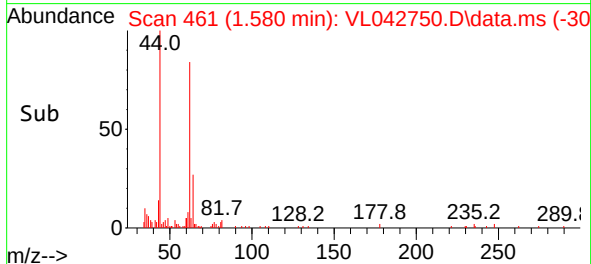
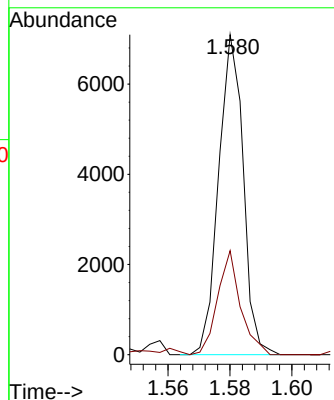
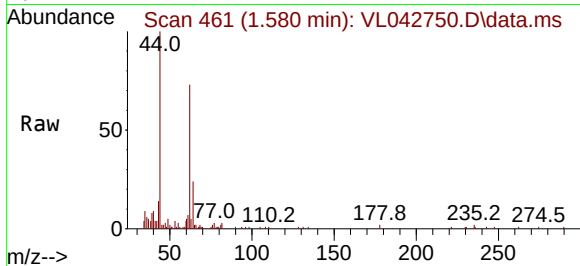




#5
 Vinyl Chloride
 Concen: 0.488 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

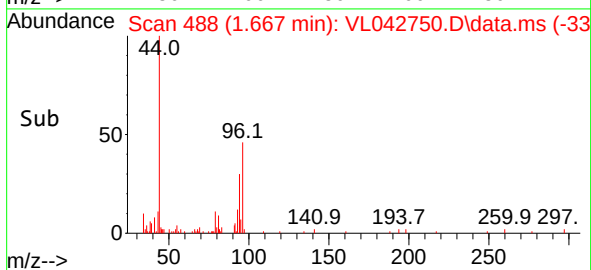
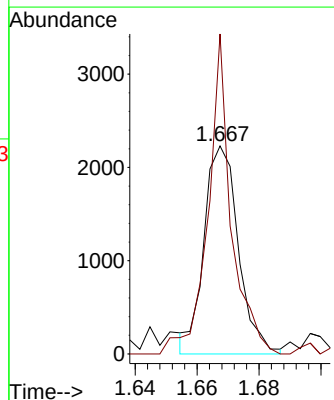
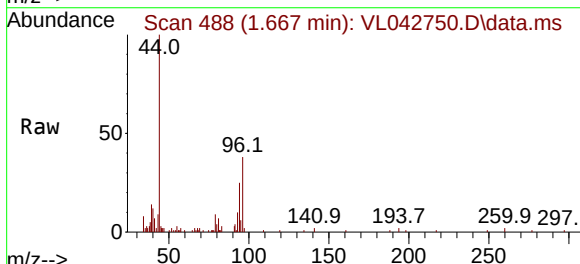
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

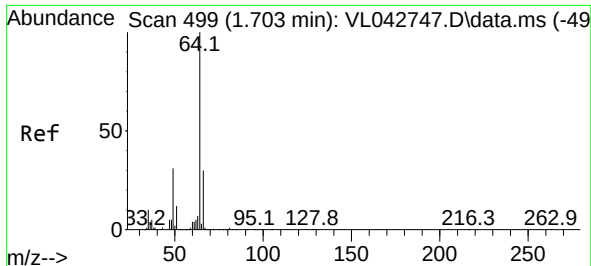
Tgt Ion: 62 Resp: 3902
 Ion Ratio Lower Upper
 62 100
 64 32.5 24.5 36.7



#6
 Bromomethane
 Concen: 0.556 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 94 Resp: 1717
 Ion Ratio Lower Upper
 94 100
 96 157.5 77.6 116.4#

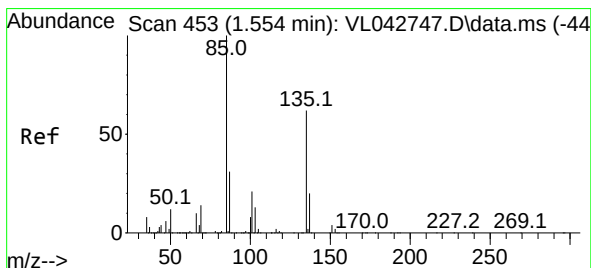
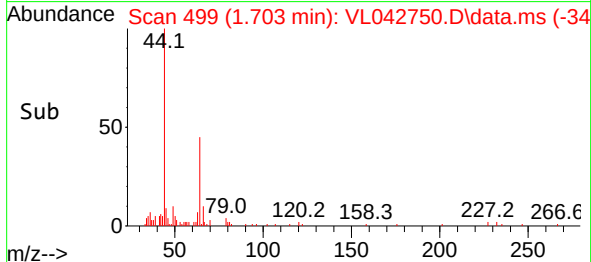
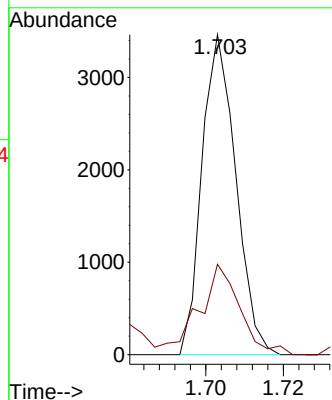
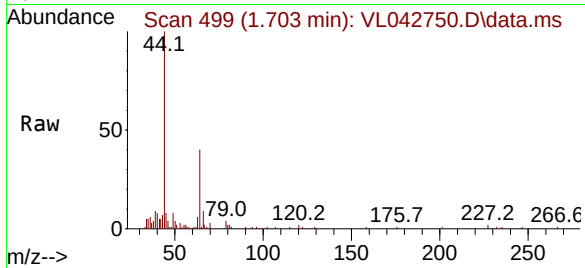




#7
Chloroethane
Concen: 0.681 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

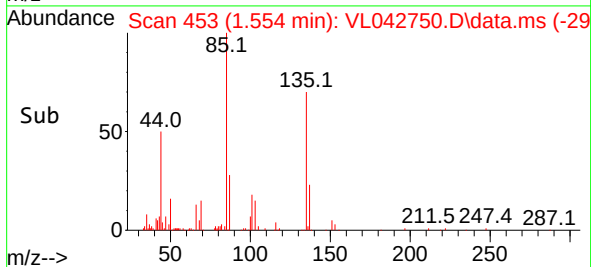
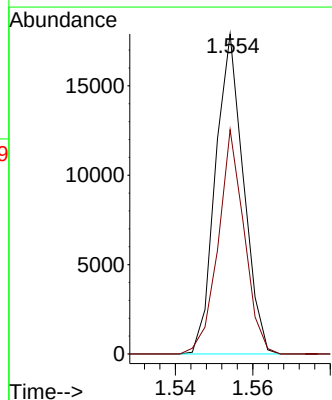
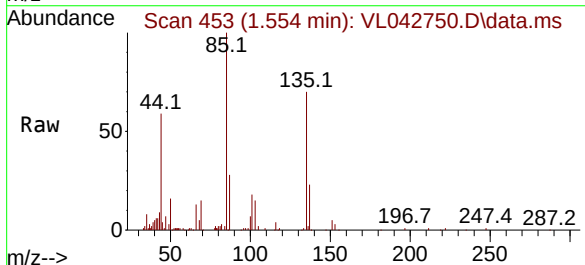
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

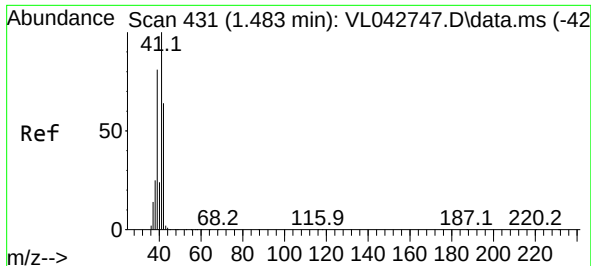
Tgt Ion: 64 Resp: 2102
Ion Ratio Lower Upper
64 100
66 28.3 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 0.545 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 8971
Ion Ratio Lower Upper
85 100
135 65.3 50.6 76.0





#9

Propene

Concen: 0.496 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

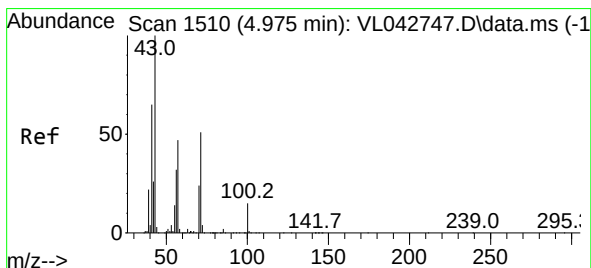
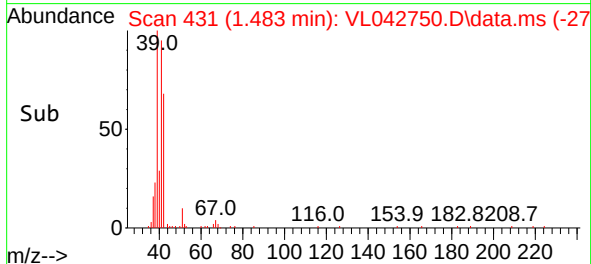
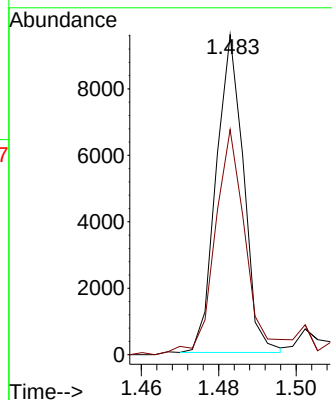
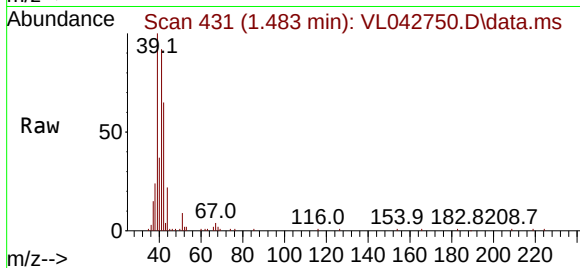
VSTDICC0.5

Tgt Ion: 41 Resp: 4695

Ion Ratio Lower Upper

41 100

42 84.9 53.2 79.8#



#10

Heptane

Concen: 0.361 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.003 min

Lab File: VL042750.D

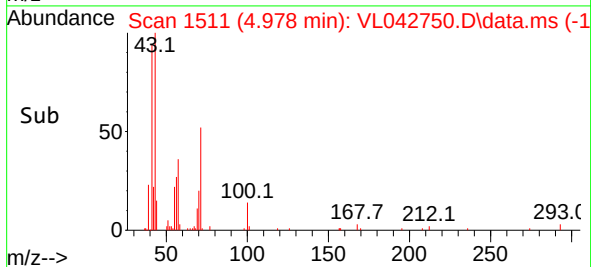
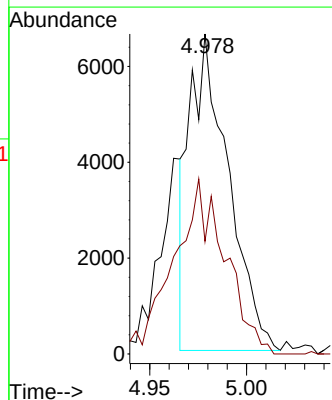
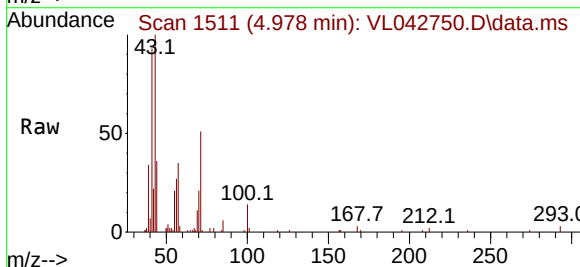
Acq: 23 Jul 2025 10:42

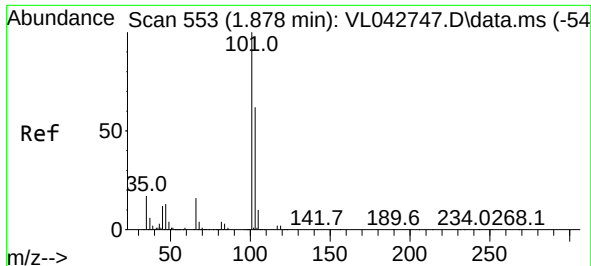
Tgt Ion: 43 Resp: 9190

Ion Ratio Lower Upper

43 100

57 73.4 39.9 59.9#

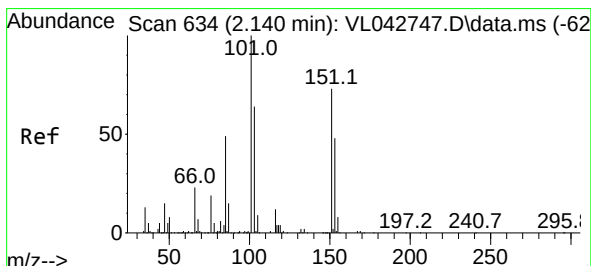
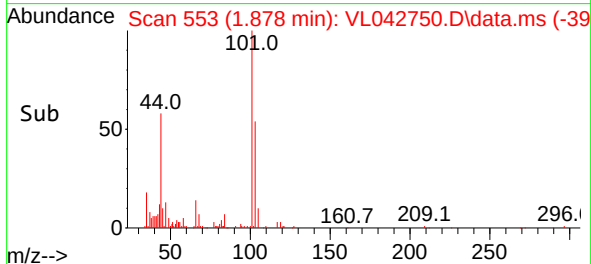
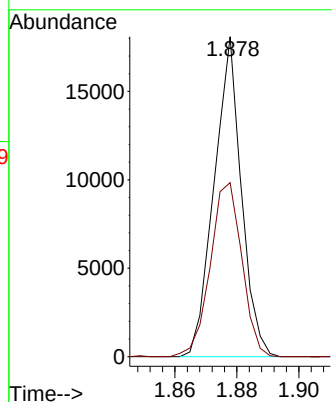
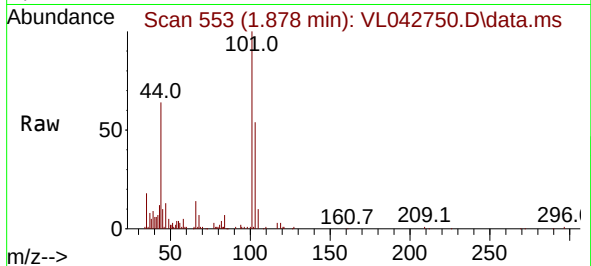




#11
 Trichlorofluoromethane
 Concen: 0.535 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

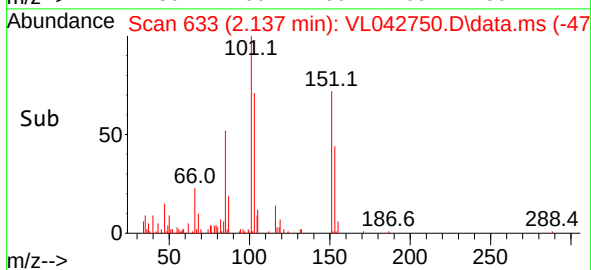
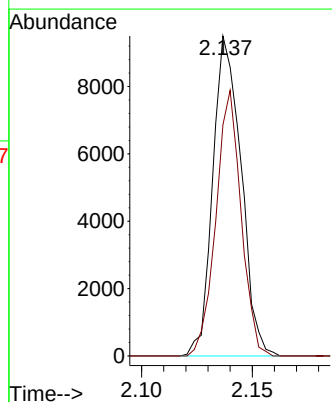
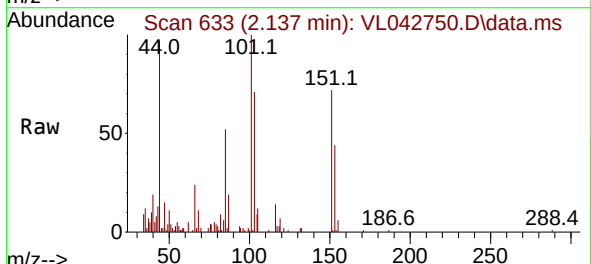
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

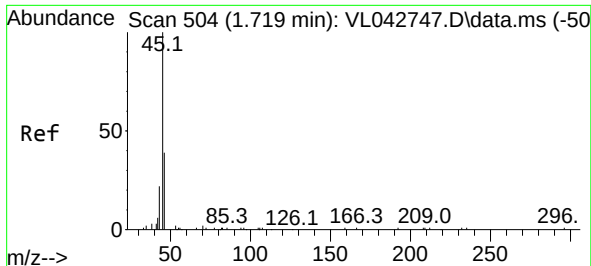
Tgt Ion:101 Resp: 11021
 Ion Ratio Lower Upper
 101 100
 103 54.4 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.538 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion:101 Resp: 8430
 Ion Ratio Lower Upper
 101 100
 151 74.0 60.5 90.7

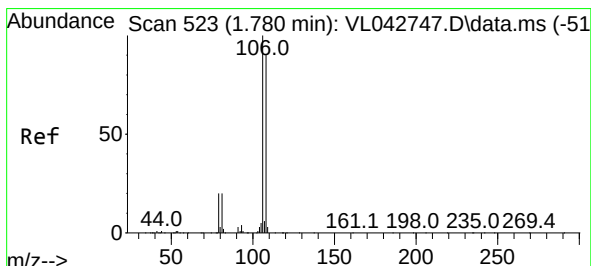
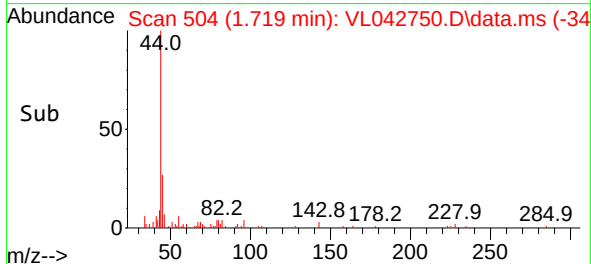
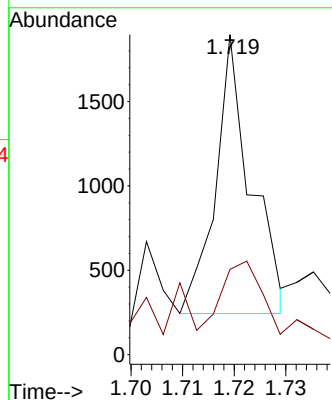
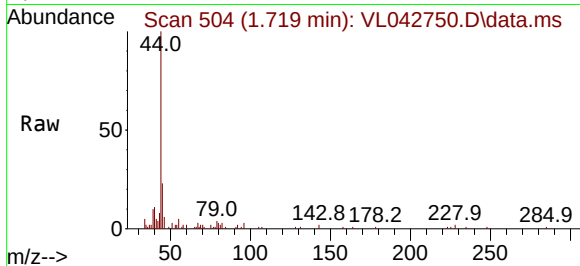




#13
Ethanol
Concen: 0.087 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

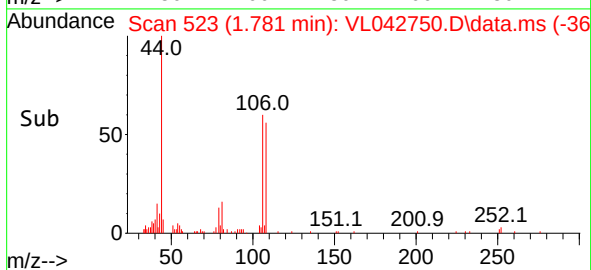
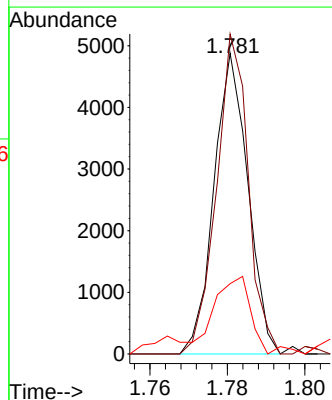
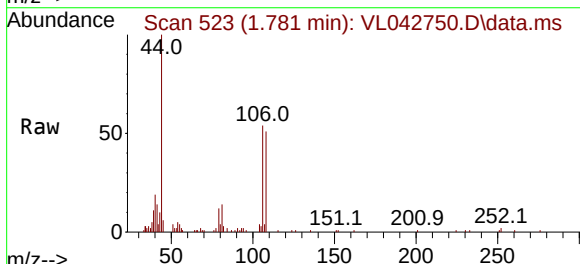
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

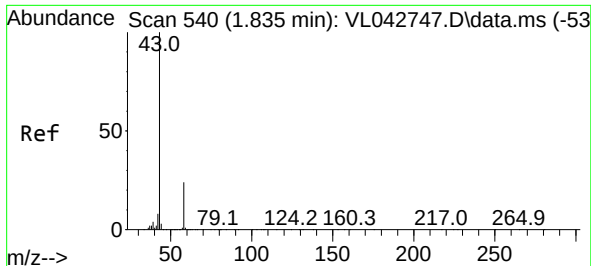
Tgt Ion: 45 Resp: 781
Ion Ratio Lower Upper
45 100
46 110.8 17.8 71.4#



#14
Bromoethene
Concen: 0.536 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 108 Resp: 2971
Ion Ratio Lower Upper
108 100
106 102.0 84.7 127.1
79 35.4 17.4 26.2#

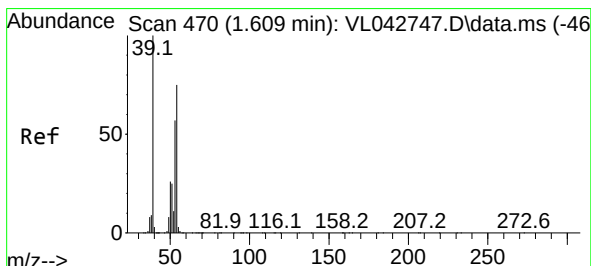
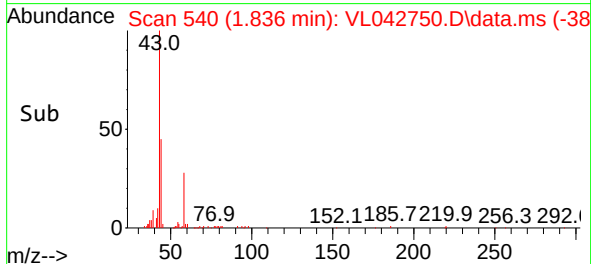
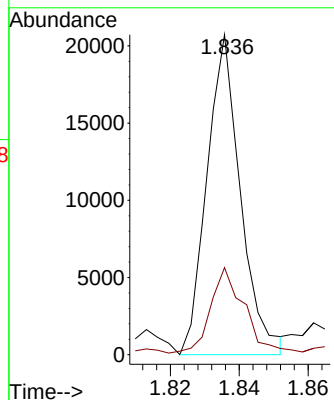
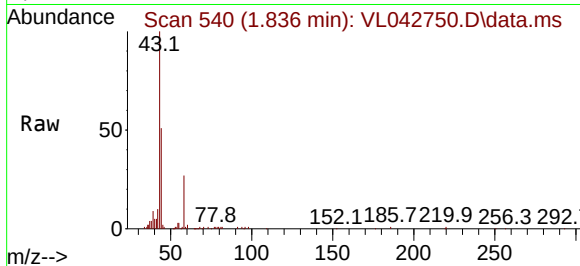




#15
Acetone
Concen: 0.671 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

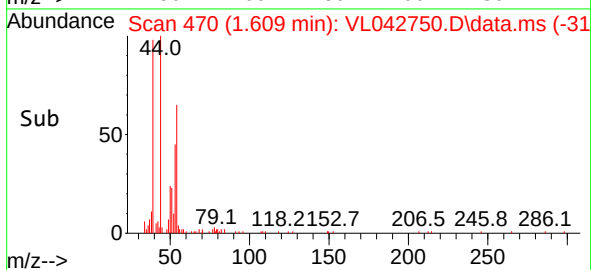
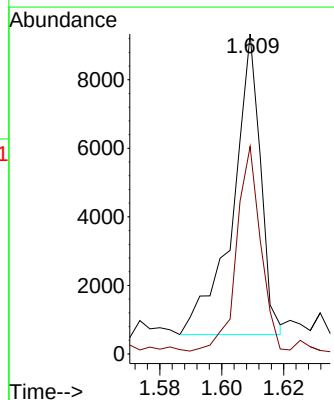
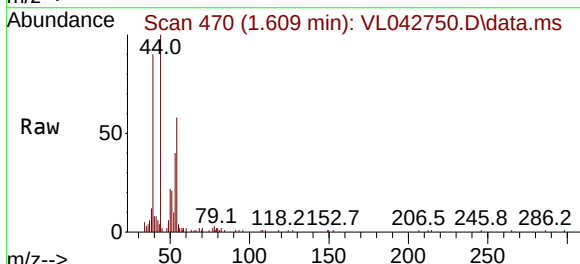
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

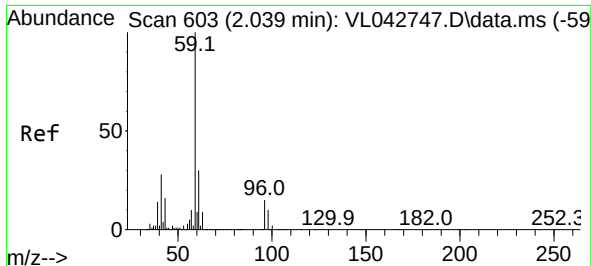
Tgt Ion: 43 Resp: 14012
Ion Ratio Lower Upper
43 100
58 30.8 19.8 29.8#



#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 39 Resp: 5488
Ion Ratio Lower Upper
39 100
54 67.8 54.5 81.7





#17

tert-Butyl alcohol

Concen: 0.549 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

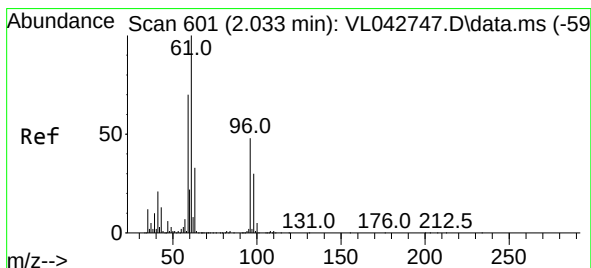
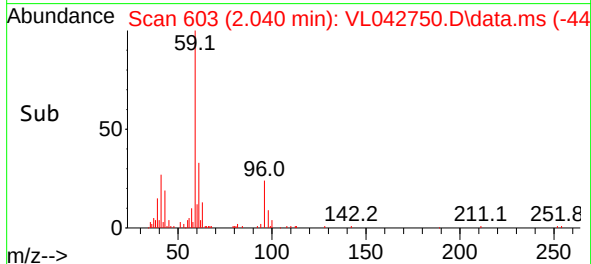
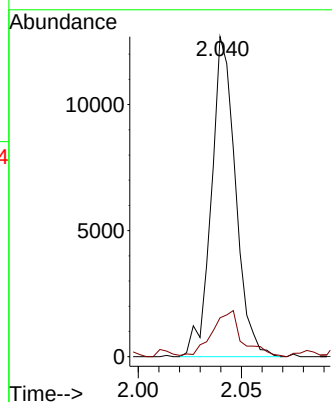
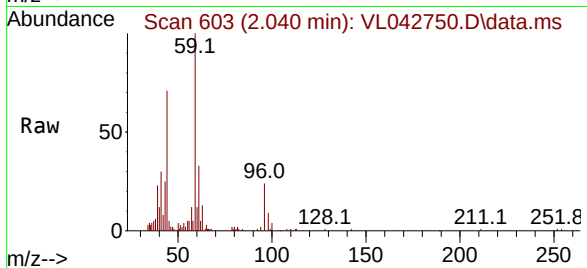
VSTDIC0.5

Tgt Ion: 59 Resp: 10333

Ion Ratio Lower Upper

59 100

57 19.1 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 0.572 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

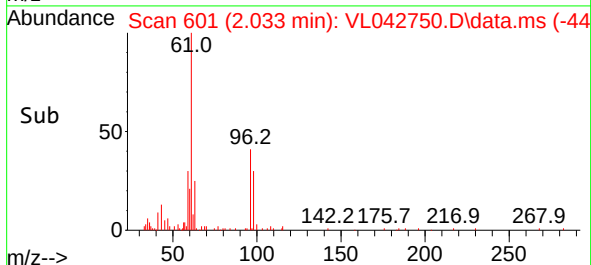
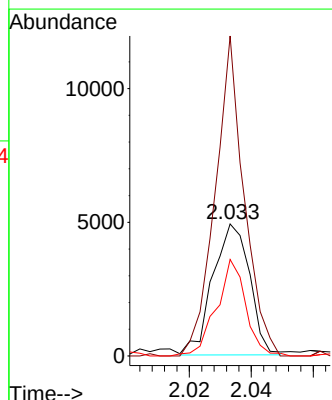
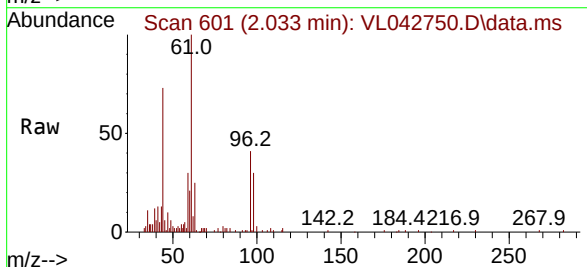
Tgt Ion: 96 Resp: 4051

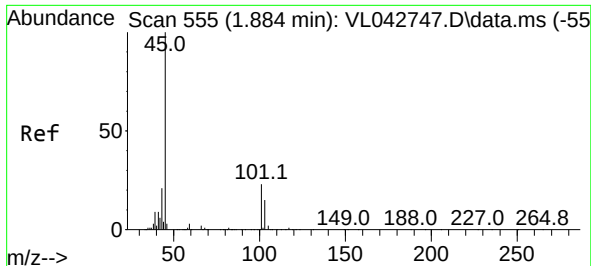
Ion Ratio Lower Upper

96 100

61 246.6 165.8 248.6

98 72.7 49.9 74.9

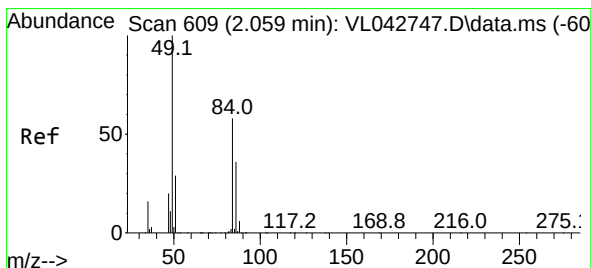
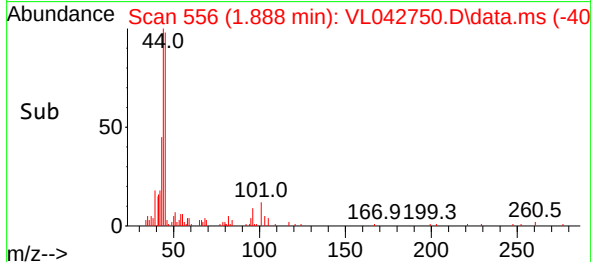
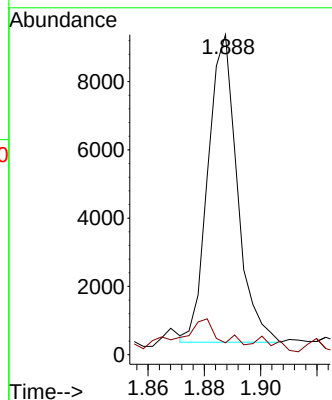
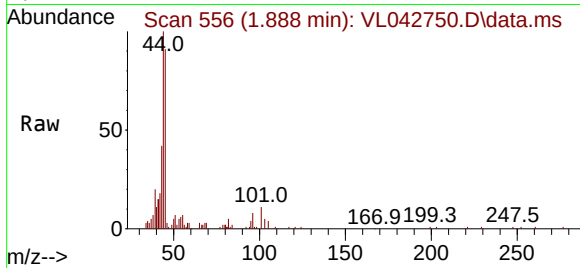




#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.888 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

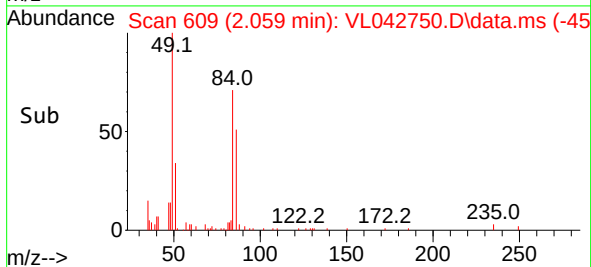
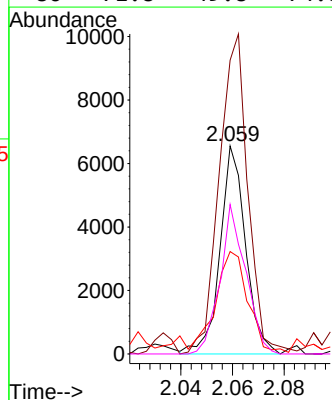
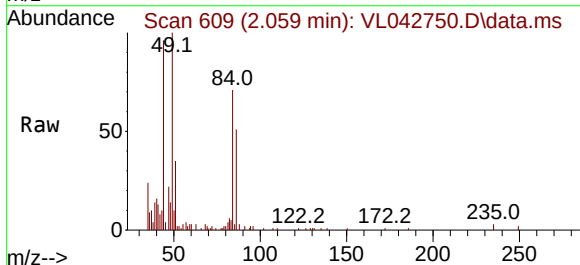
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

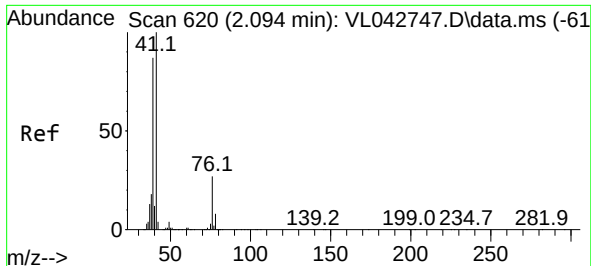
Tgt Ion: 45 Resp: 6478
Ion Ratio Lower Upper
45 100
58 25.9 30.0 45.0#



#20
Methylene Chloride
Concen: 0.684 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 4500
Ion Ratio Lower Upper
84 100
49 141.2 138.6 208.0
51 46.8 40.6 61.0
86 71.8 49.8 74.8

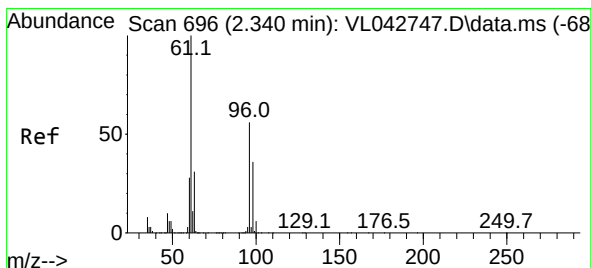
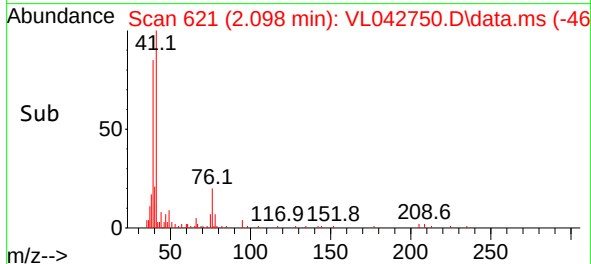
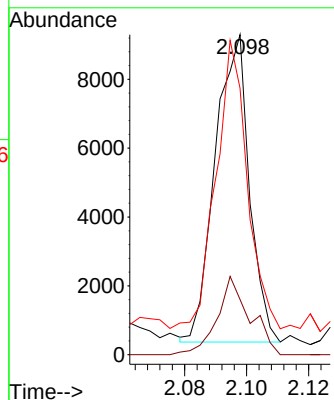
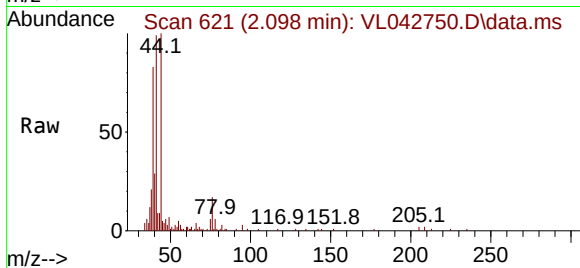




#21
 Allyl Chloride
 Concen: 0.531 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

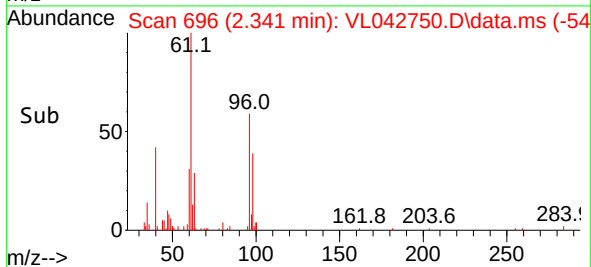
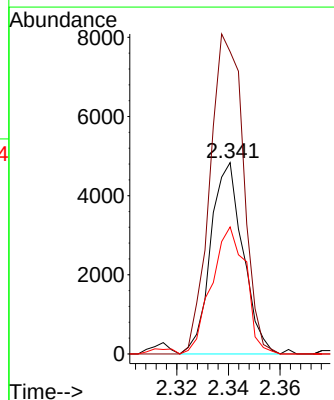
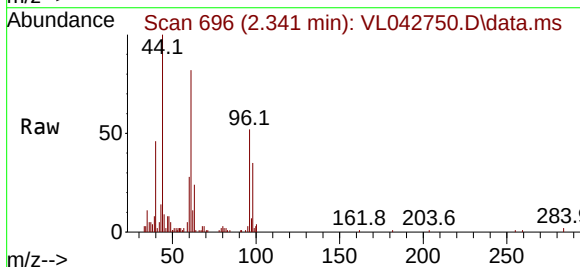
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

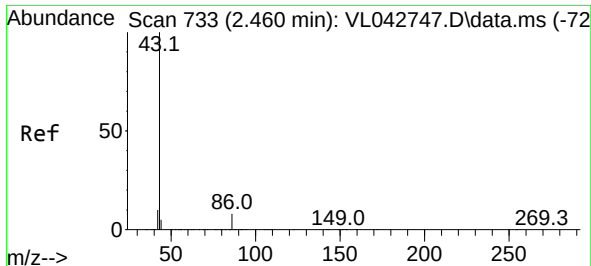
Tgt Ion: 41 Resp: 6829
 Ion Ratio Lower Upper
 41 100
 76 24.4 21.1 31.7
 39 108.8 68.3 102.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.551 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 96 Resp: 4186
 Ion Ratio Lower Upper
 96 100
 61 157.9 142.3 213.5
 98 66.4 50.6 76.0

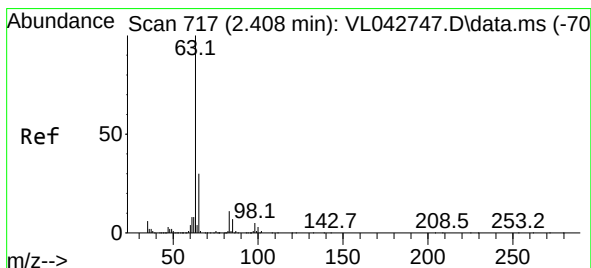
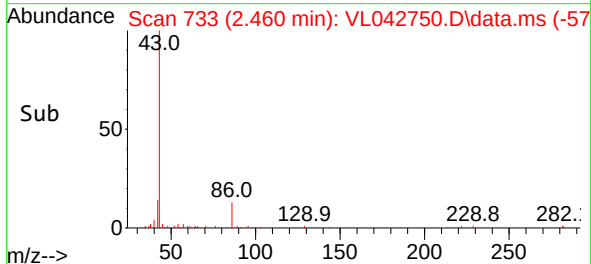
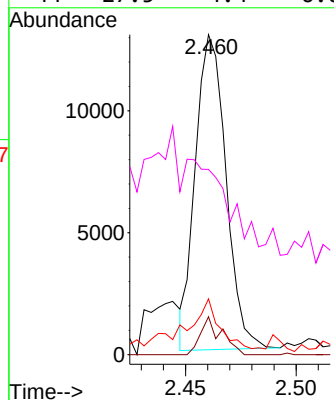
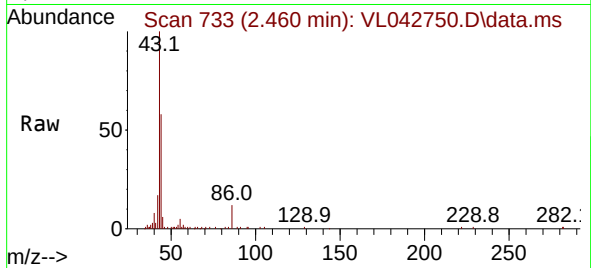




#23
Vinyl Acetate
Concen: 0.491 ppbv
RT: 2.460 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

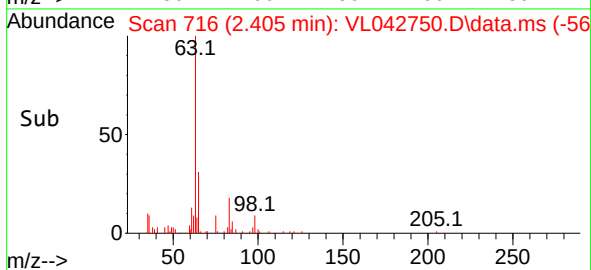
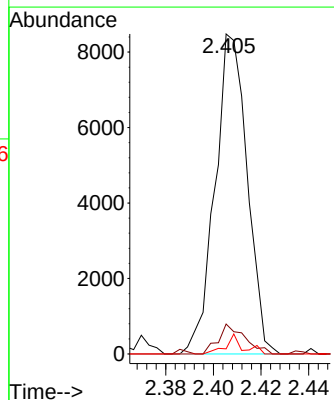
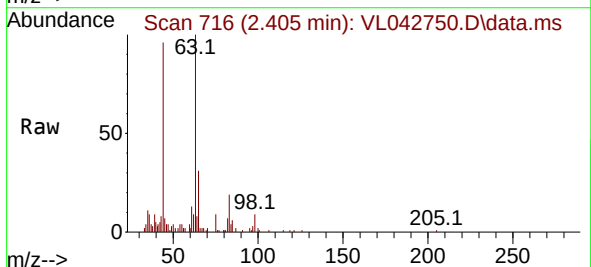
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

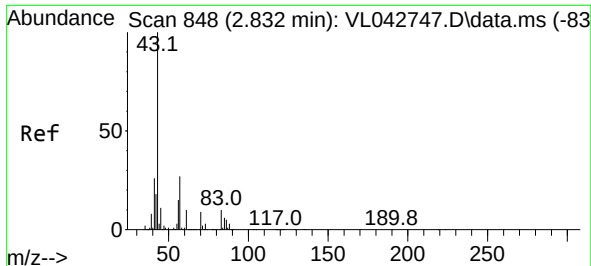
Tgt Ion:	43	Resp:	12423
Ion	Ratio	Lower	Upper
43	100		
86	12.1	6.1	9.1#
42	13.5	7.8	11.8#
44	27.5	4.4	6.6#



#24
1,1-Dichloroethane
Concen: 0.509 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:	63	Resp:	7962
Ion	Ratio	Lower	Upper
63	100		
98	9.4	2.5	7.4#
100	2.8	1.6	4.8

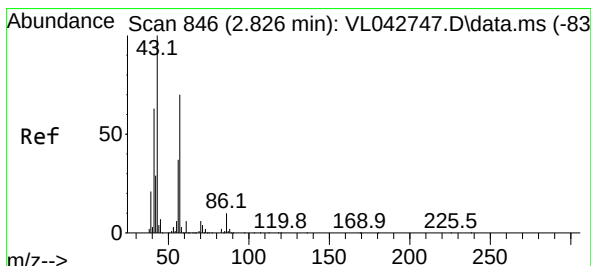
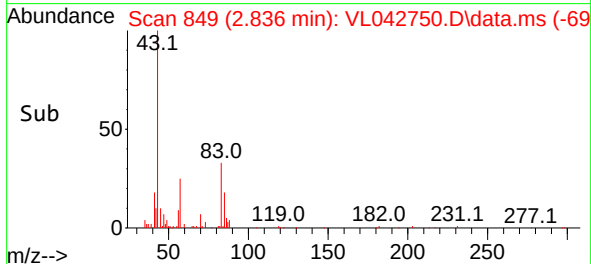
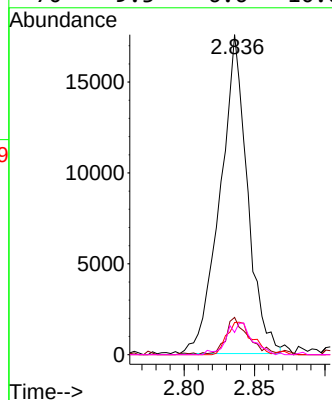
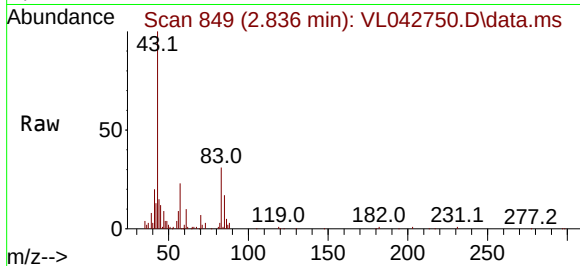




#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

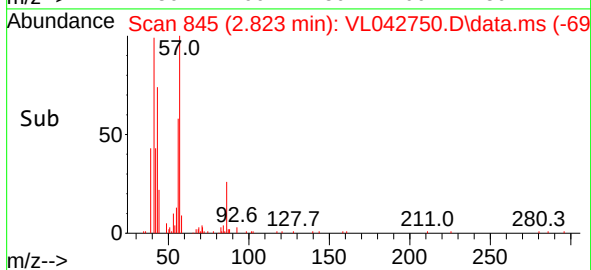
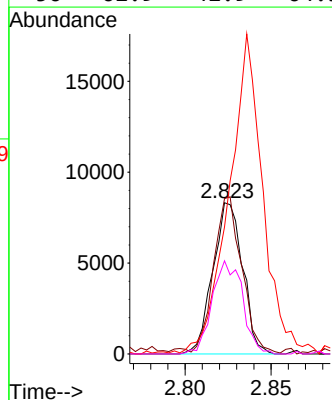
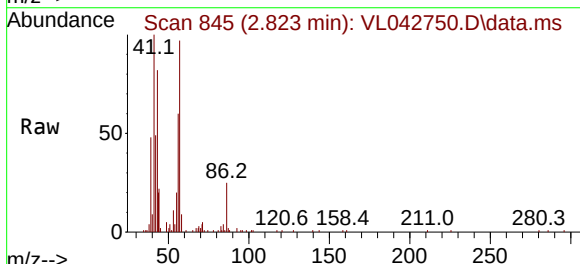
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

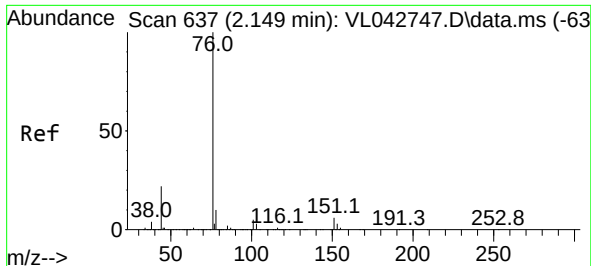
Tgt Ion: 43	Resp: 23632
Ion Ratio	Lower Upper
43	100
45	10.4 7.8 11.6
61	9.8 6.7 10.1
70	9.3 6.6 10.0



#26
Hexane
Concen: 0.494 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57	Resp: 10019
Ion Ratio	Lower Upper
57	100
41	107.1 75.4 113.2
43	244.9 185.0 277.6
56	62.9 42.9 64.3

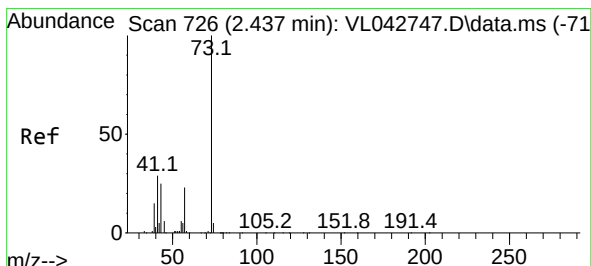
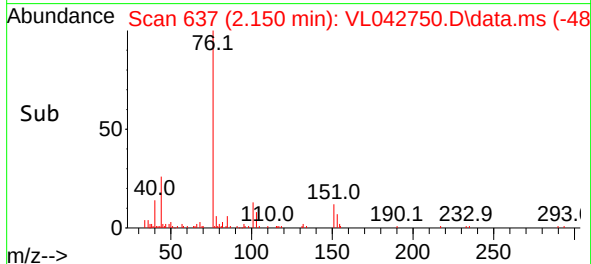
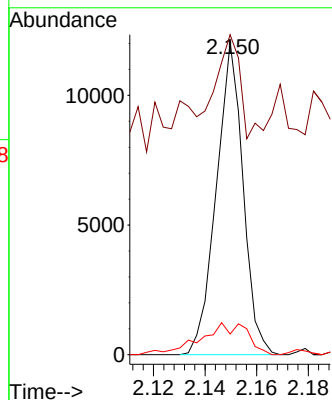
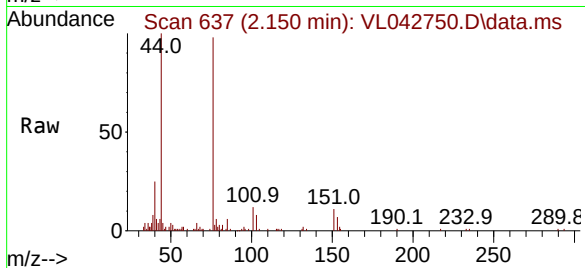




#27
Carbon Disulfide
Concen: 0.499 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

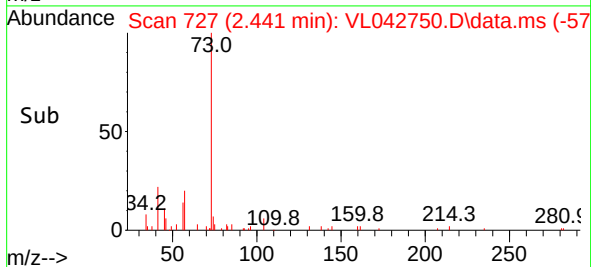
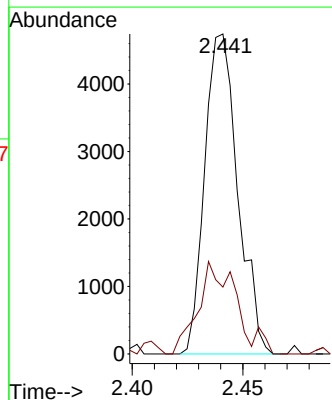
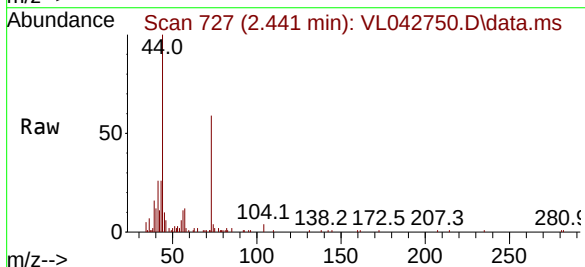
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

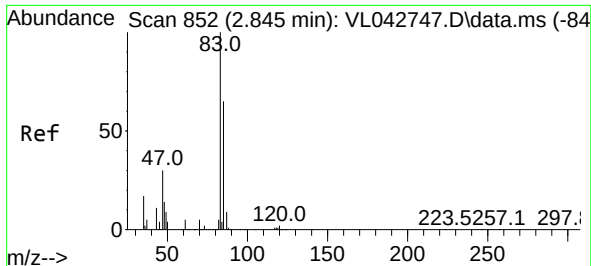
Tgt Ion: 76 Resp: 8670
Ion Ratio Lower Upper
76 100
44 203.7 19.3 28.9#
78 19.1 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.515 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 73 Resp: 4937
Ion Ratio Lower Upper
73 100
57 35.2 19.8 29.8#





#29

Chloroform

Concen: 0.546 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

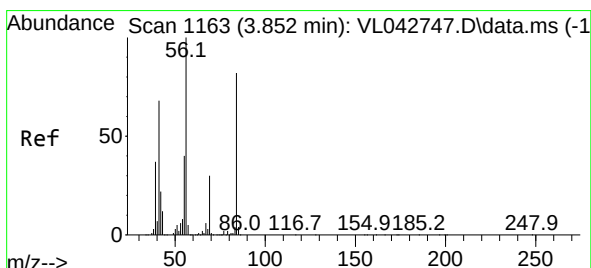
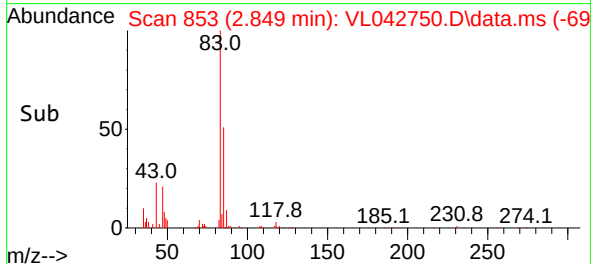
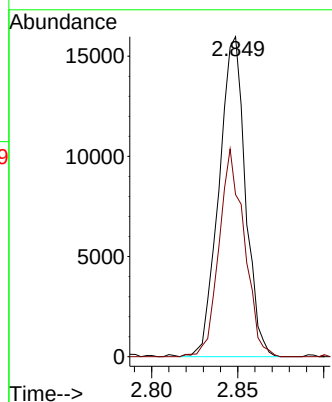
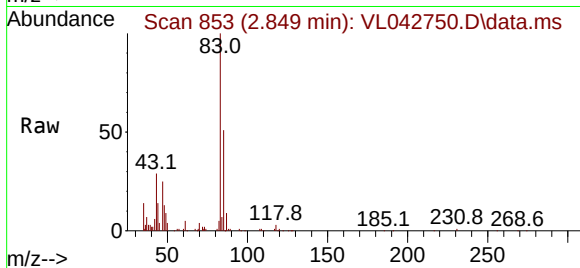
VSTDICC0.5

Tgt Ion: 83 Resp: 17100

Ion Ratio Lower Upper

83 100

85 50.7 52.2 78.2#



#30

Cyclohexane

Concen: 0.500 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

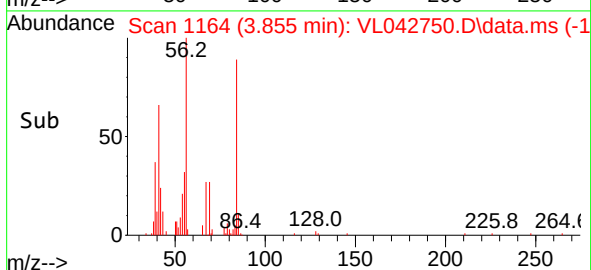
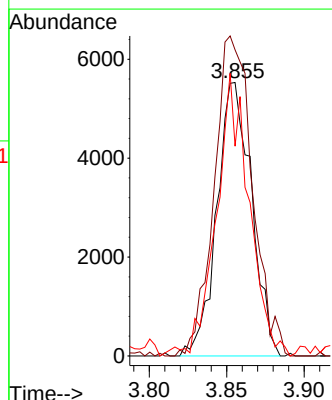
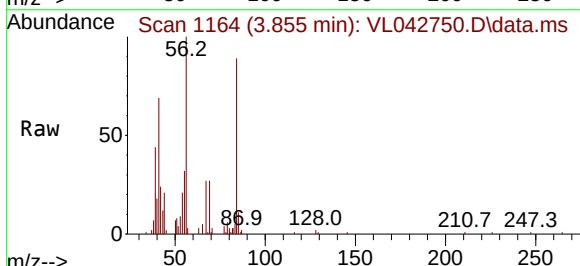
Tgt Ion: 84 Resp: 8596

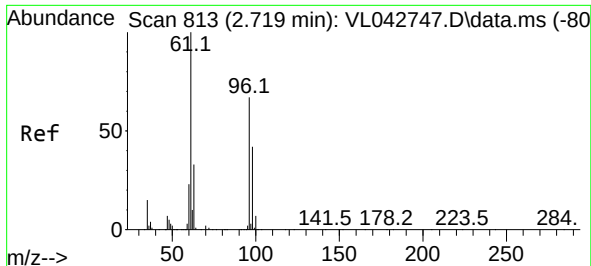
Ion Ratio Lower Upper

84 100

56 129.6 97.5 146.3

41 98.8 67.2 100.8

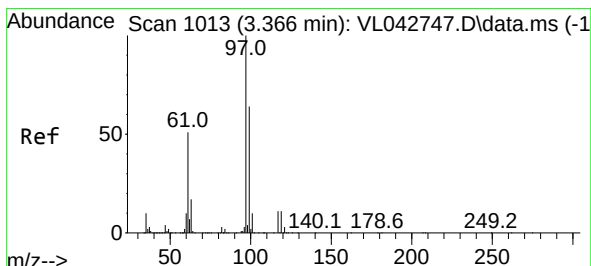
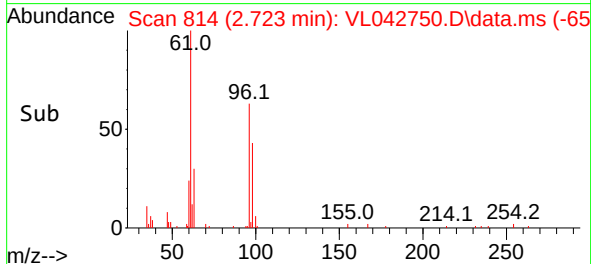
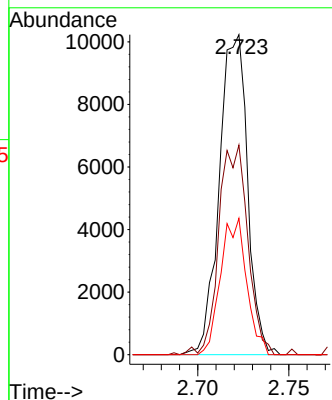
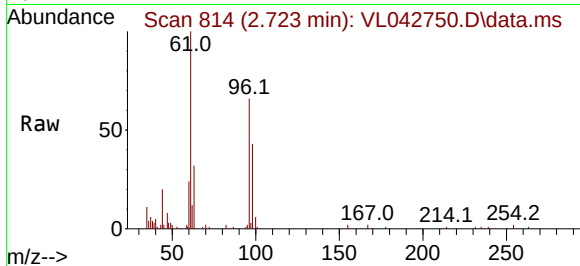




#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

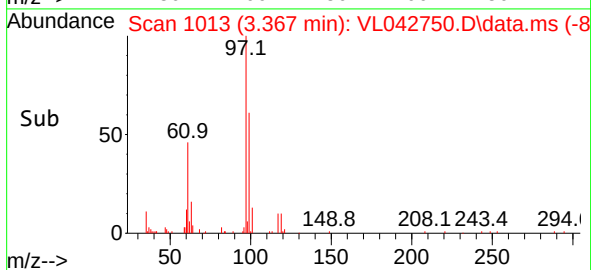
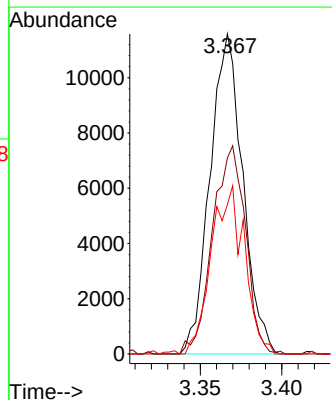
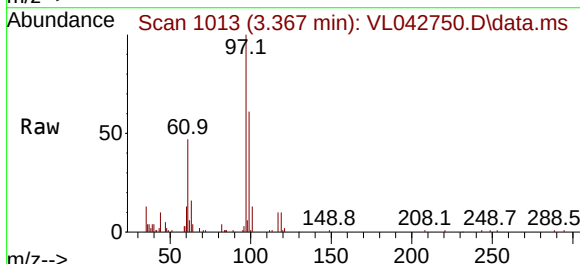
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

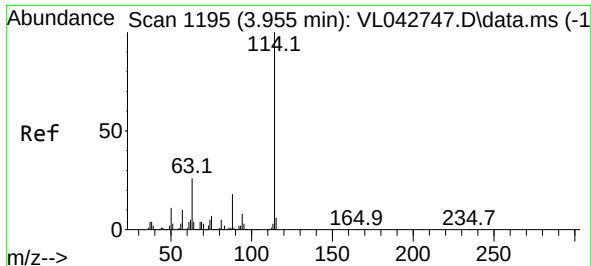
Tgt Ion: 61 Resp: 11032
 Ion Ratio Lower Upper
 61 100
 96 65.5 53.5 80.3
 98 42.6 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 97 Resp: 16132
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.6
 61 53.8 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

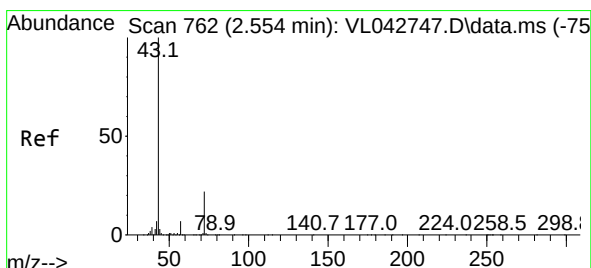
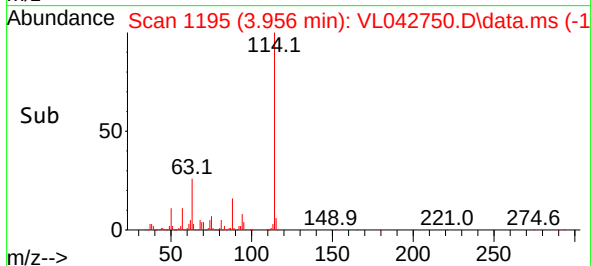
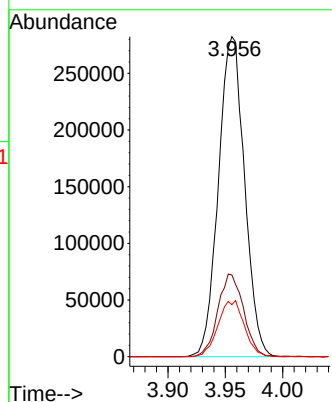
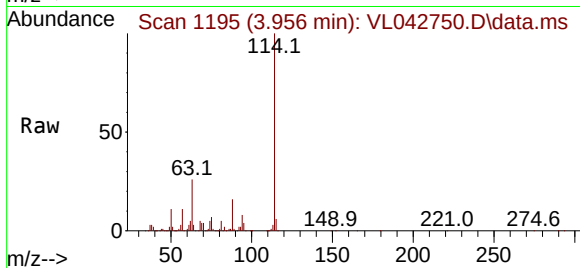
Tgt Ion:114 Resp: 446836

Ion Ratio Lower Upper

114 100

63 25.4 20.5 30.7

88 17.7 14.0 21.0



#34

2-Butanone

Concen: 0.515 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042750.D

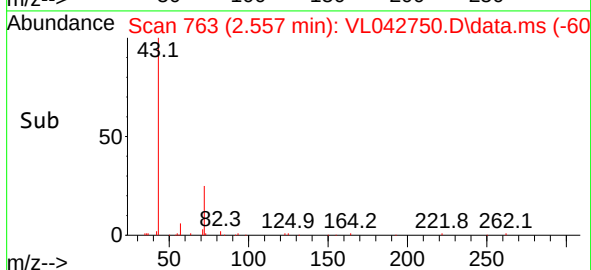
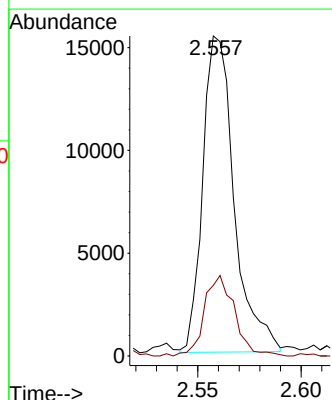
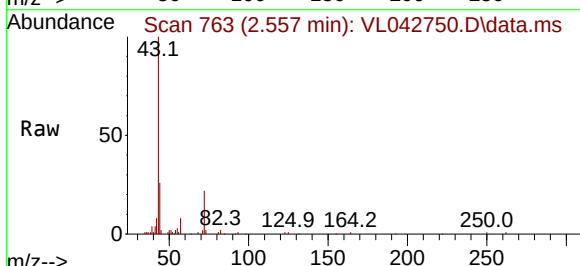
Acq: 23 Jul 2025 10:42

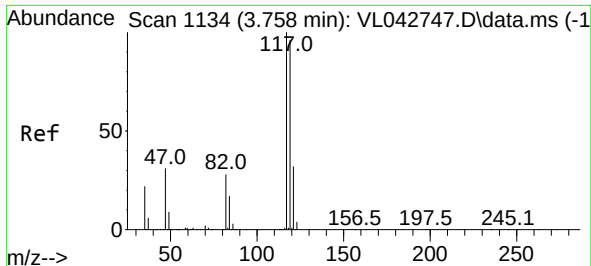
Tgt Ion: 43 Resp: 16299

Ion Ratio Lower Upper

43 100

72 24.6 17.4 26.0

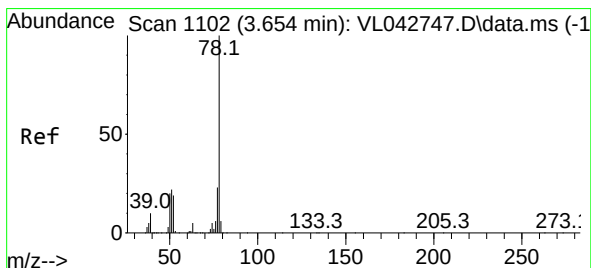
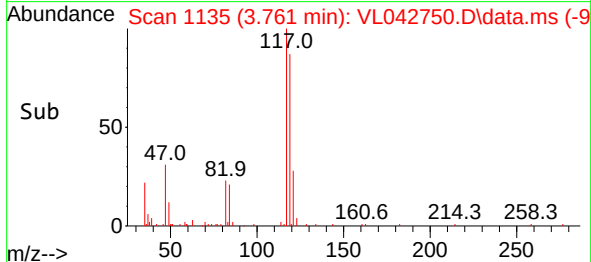
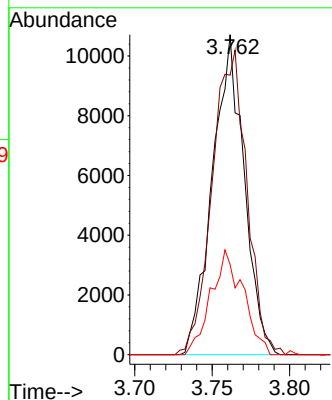
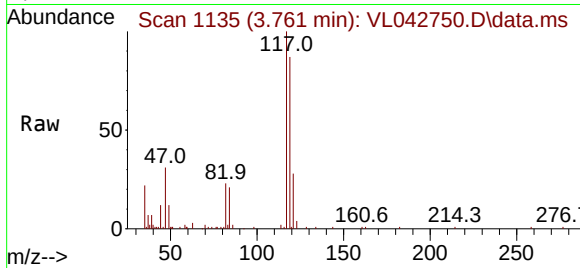




#35
Carbon Tetrachloride
Concen: 0.458 ppbv
RT: 3.761 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

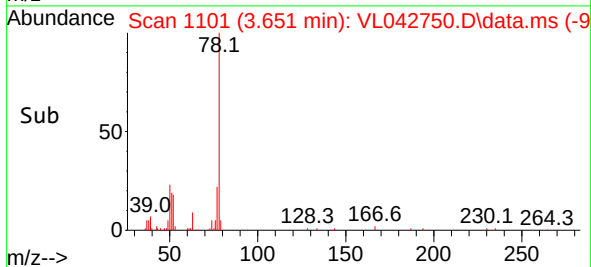
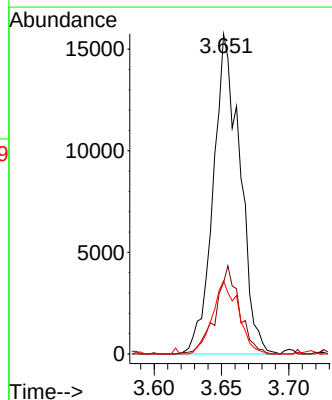
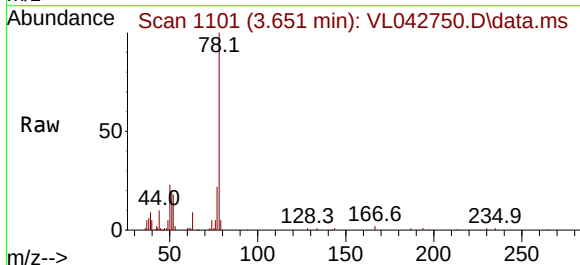
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

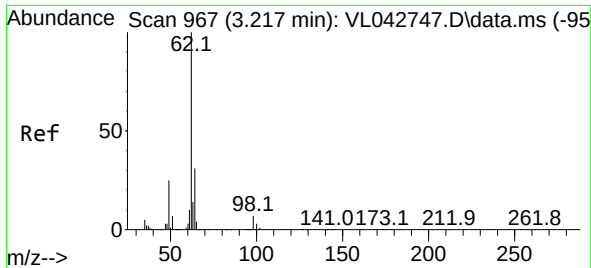
Tgt Ion:117 Resp: 15207
Ion Ratio Lower Upper
117 100
119 86.0 77.1 115.7
121 28.2 25.5 38.3



#36
Benzene
Concen: 0.515 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 78 Resp: 21800
Ion Ratio Lower Upper
78 100
77 22.3 18.5 27.7
50 22.8 16.2 24.2

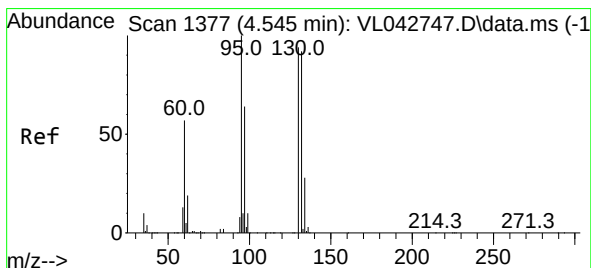
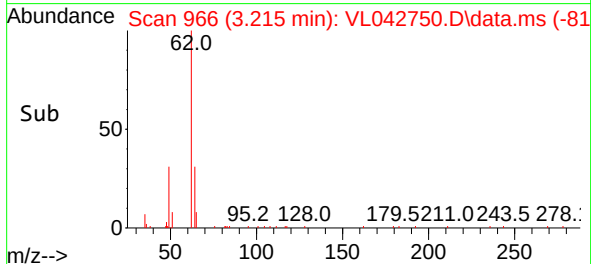
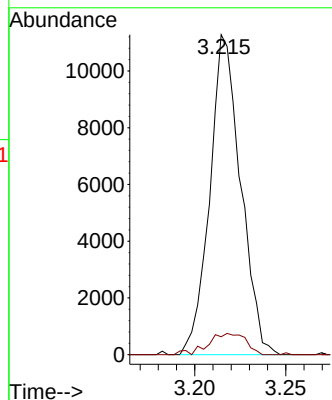
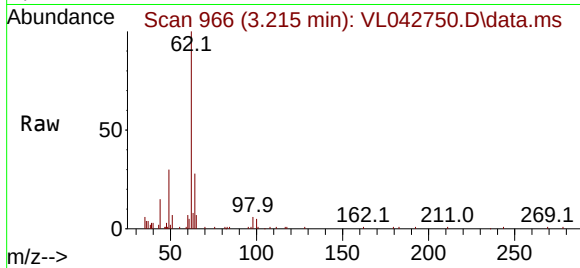




#37
1,2-Dichloroethane
Concen: 0.521 ppbv
RT: 3.215 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

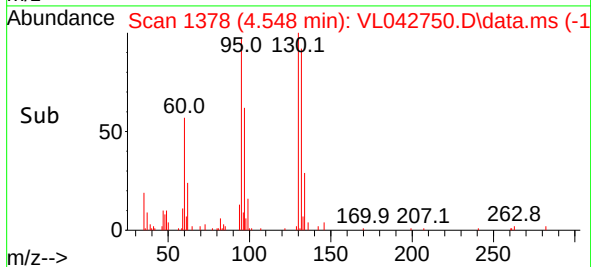
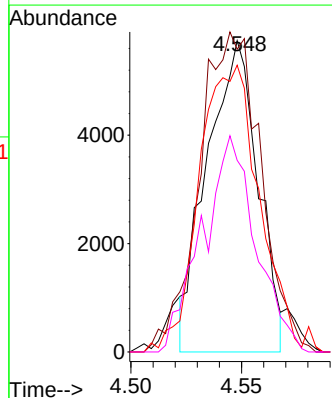
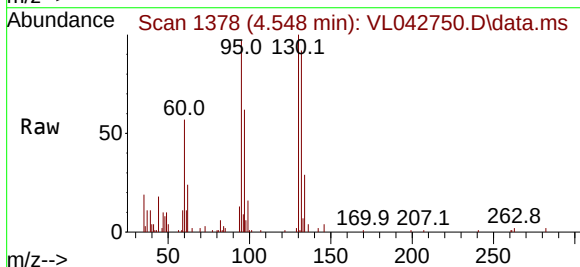
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

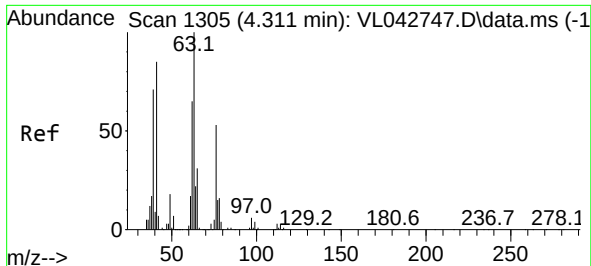
Tgt Ion: 62 Resp: 13299
Ion Ratio Lower Upper
62 100
98 8.3 5.2 7.8#



#38
Trichloroethene
Concen: 0.448 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:130 Resp: 9150
Ion Ratio Lower Upper
130 100
95 89.3 85.4 128.2
132 94.1 78.2 117.2
97 57.3 54.8 82.2





#39

1,2-Dichloropropane

Concen: 0.530 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

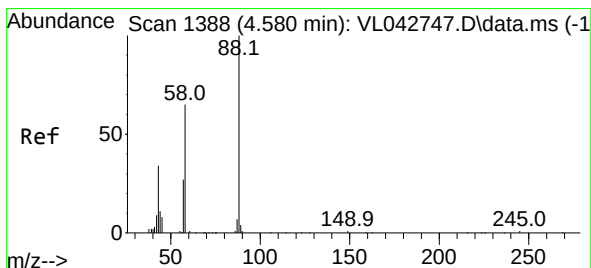
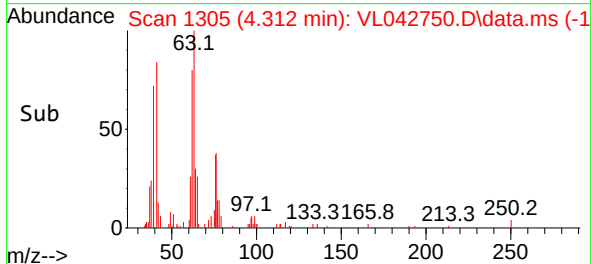
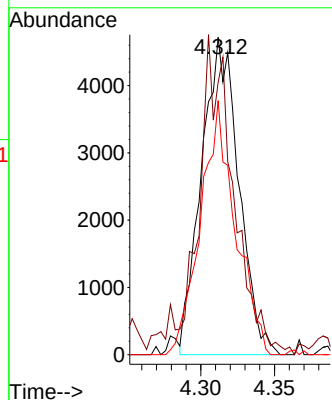
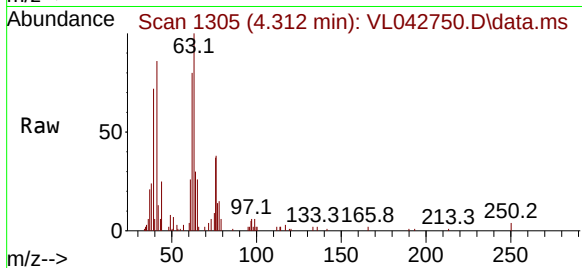
Tgt Ion: 63 Resp: 8291

Ion Ratio Lower Upper

63 100

41 83.1 68.2 102.4

62 80.1 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.187 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion: 88 Resp: 1378

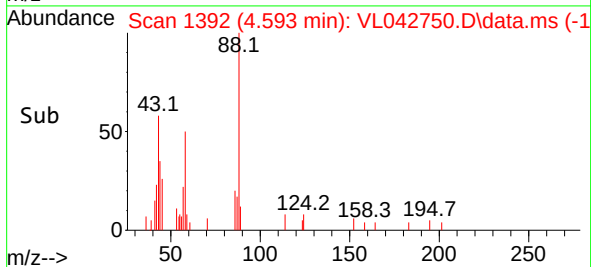
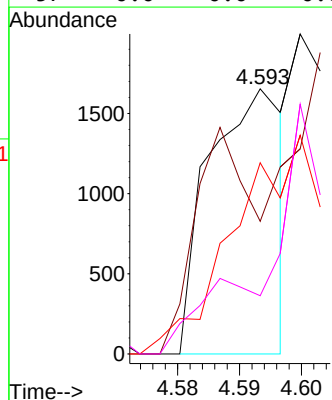
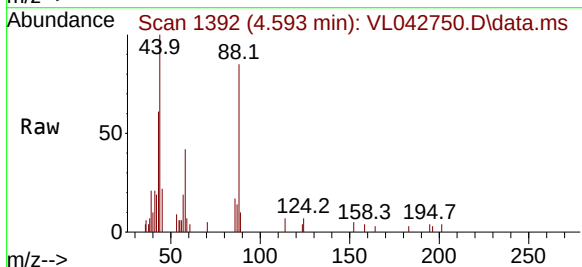
Ion Ratio Lower Upper

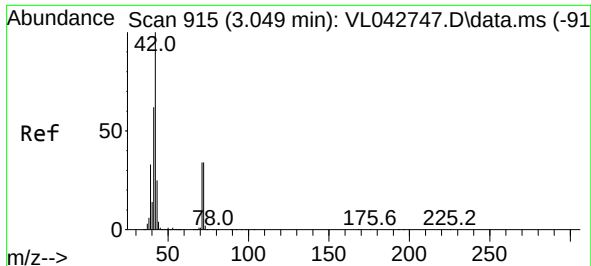
88 100

58 0.0 58.8 88.2#

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

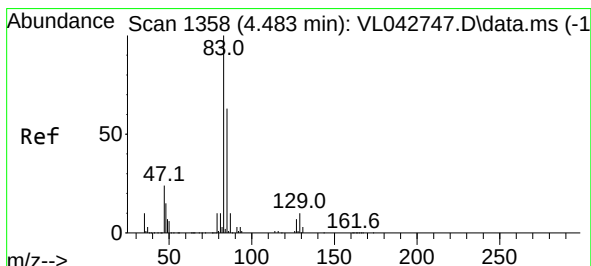
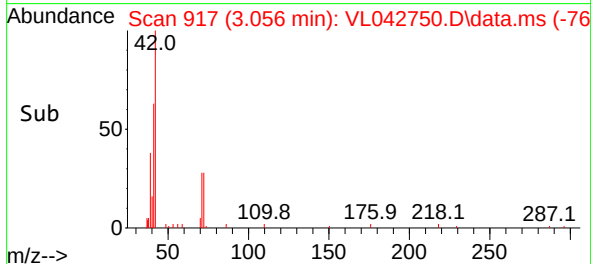
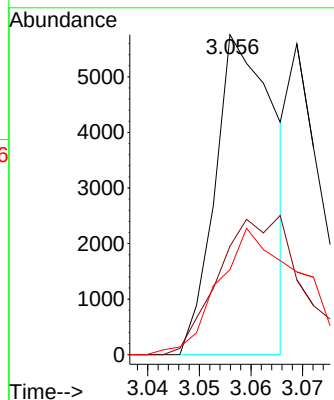
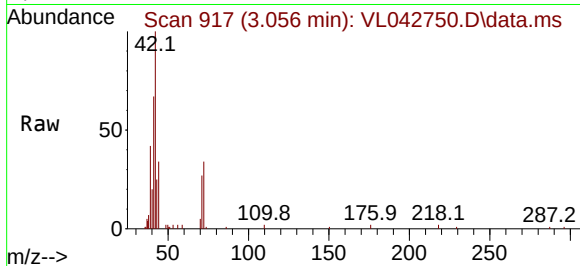




#41
Tetrahydrofuran
Concen: 0.289 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

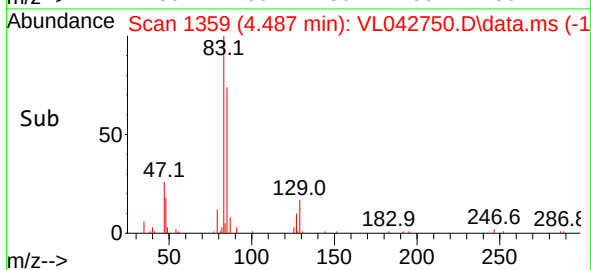
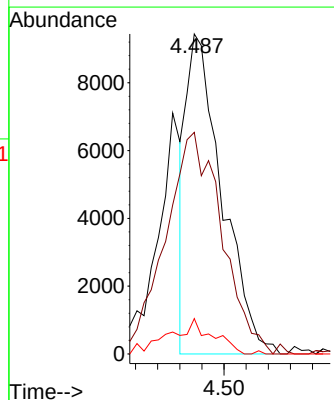
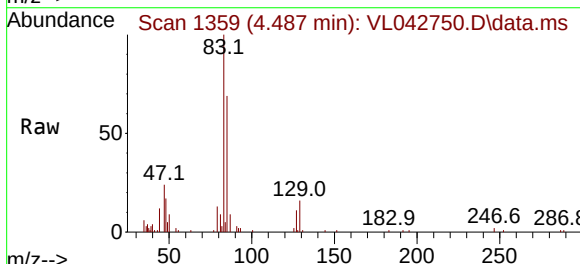
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

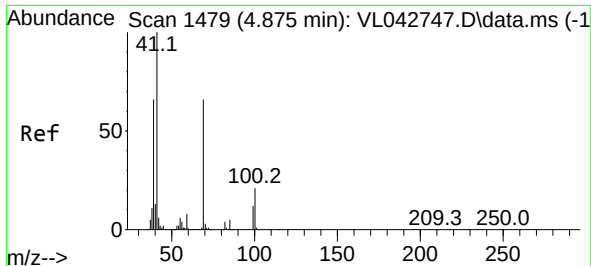
Tgt Ion: 42 Resp: 4590
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 66.1 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.318 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 83 Resp: 10591
Ion Ratio Lower Upper
83 100
85 66.1 50.2 75.4
127 11.1 5.4 8.2#

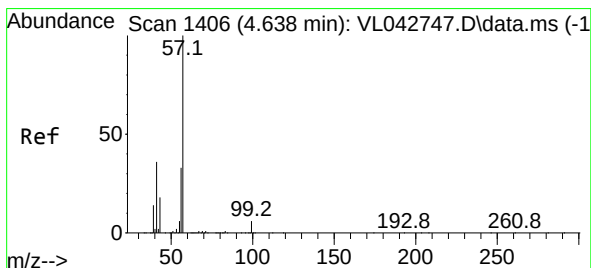
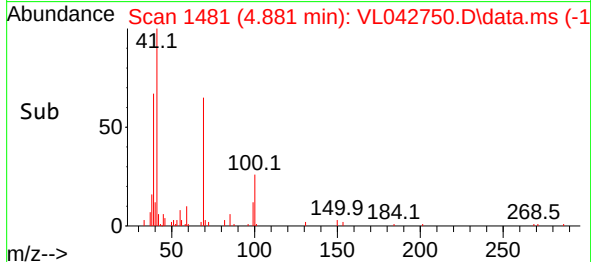
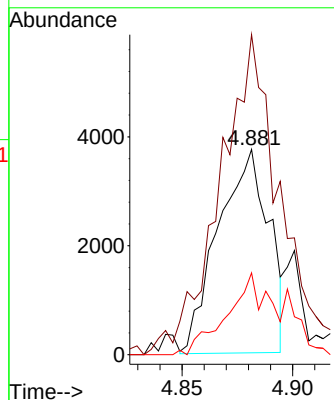
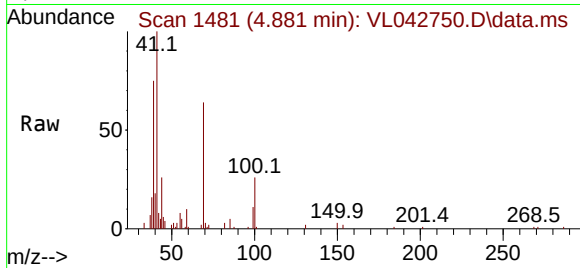




#43
Methyl Methacrylate
Concen: 0.394 ppbv
RT: 4.881 min Scan# 1479
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

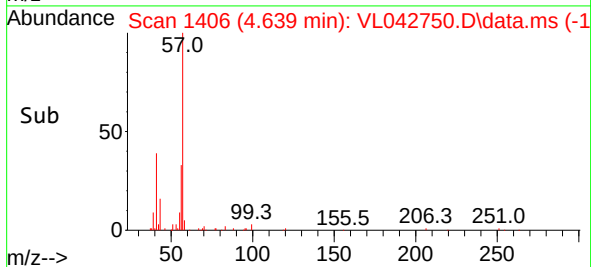
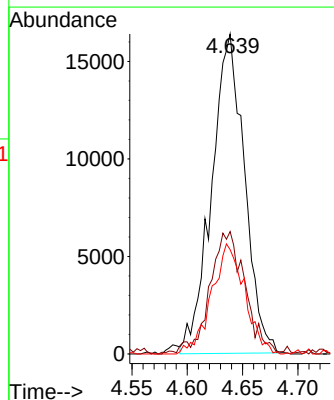
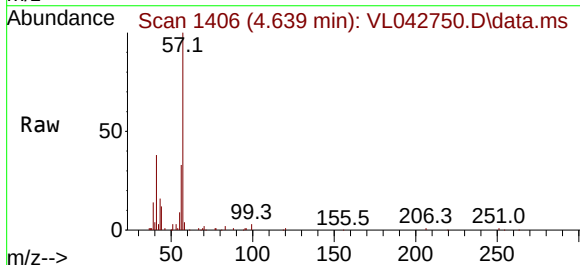
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

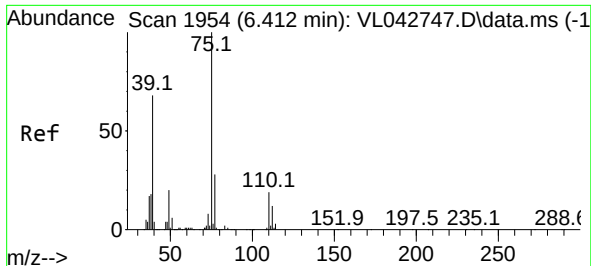
Tgt Ion: 69 Resp: 5938
Ion Ratio Lower Upper
69 100
41 186.9 125.7 188.5
100 44.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.490 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 33853
Ion Ratio Lower Upper
57 100
41 41.3 28.3 42.5
56 34.7 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 0.342 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

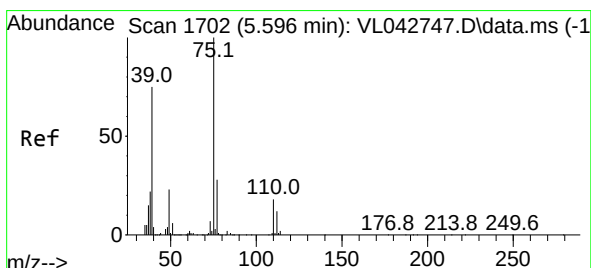
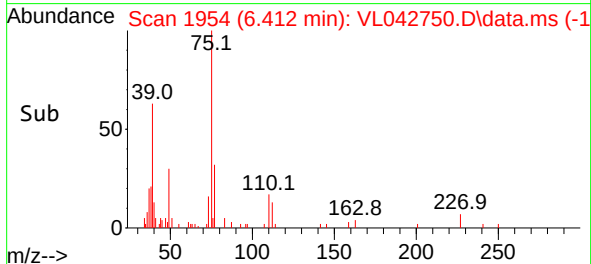
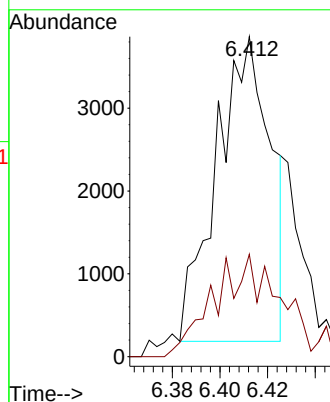
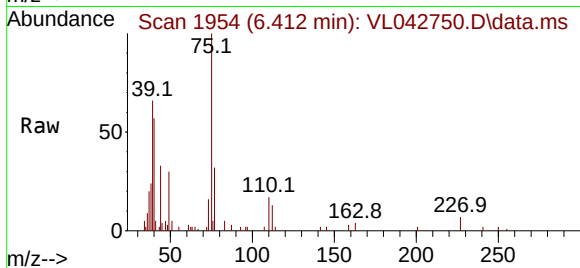
VSTDICC0.5

Tgt Ion: 75 Resp: 5781

Ion Ratio Lower Upper

75 100

77 32.0 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 0.162 ppbv

RT: 5.587 min Scan# 1699

Delta R.T. -0.009 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

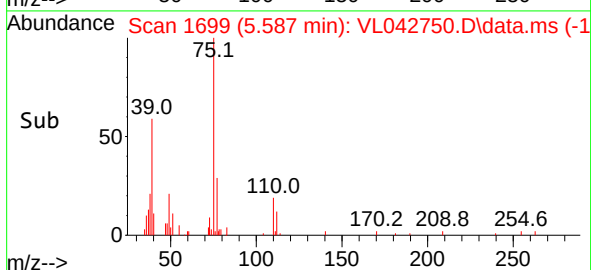
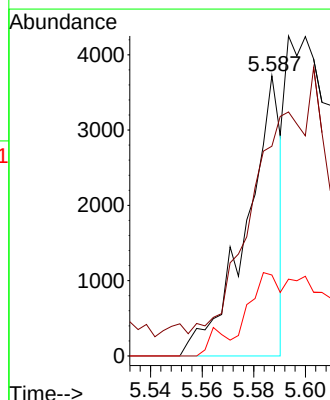
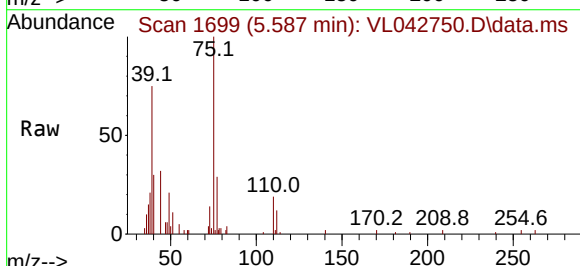
Tgt Ion: 75 Resp: 3465

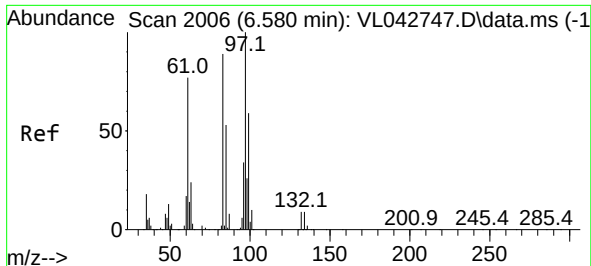
Ion Ratio Lower Upper

75 100

39 63.4 60.2 90.2

77 28.9 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 0.293 ppbv

RT: 6.584 min Scan# 2006

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 4878

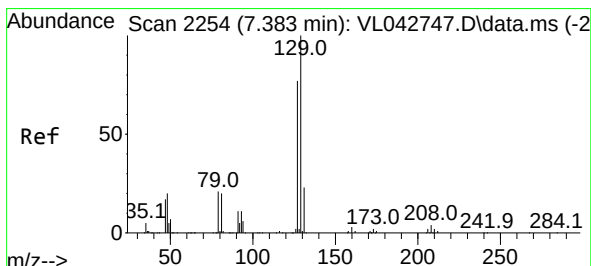
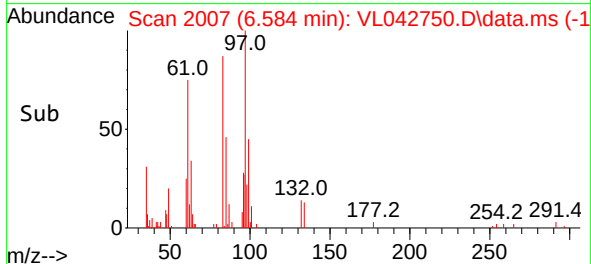
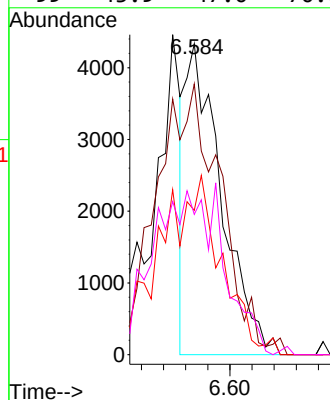
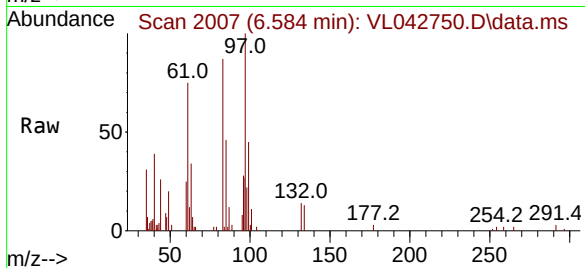
Ion Ratio Lower Upper

97 100

83 81.7 71.1 106.7

85 46.4 43.0 64.4

99 43.9 47.0 70.6#



#48

Dibromochloromethane

Concen: 0.322 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042750.D

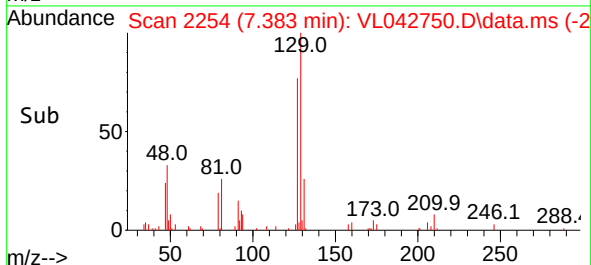
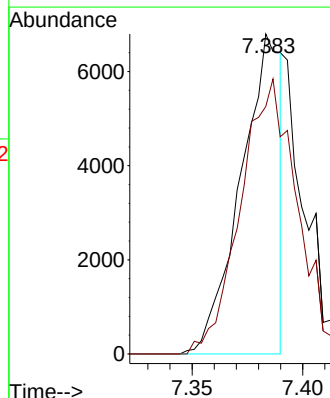
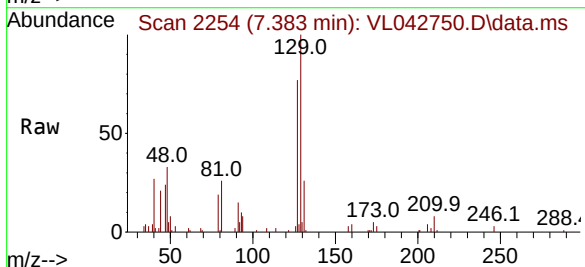
Acq: 23 Jul 2025 10:42

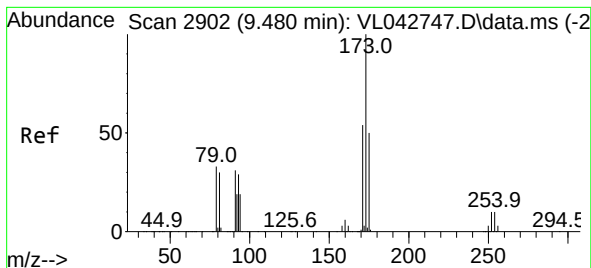
Tgt Ion: 129 Resp: 8515

Ion Ratio Lower Upper

129 100

127 121.6 38.7 116.1#





#49

Bromoform

Concen: 0.468 ppbv

RT: 9.481 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

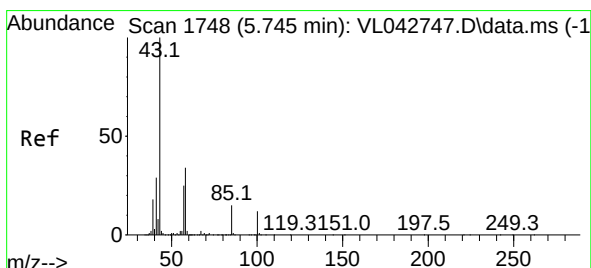
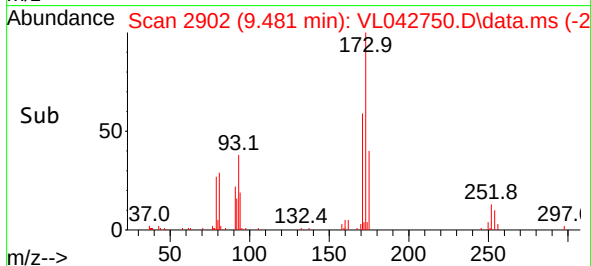
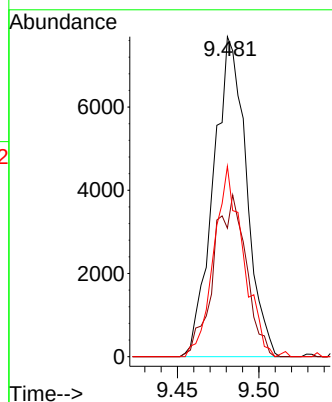
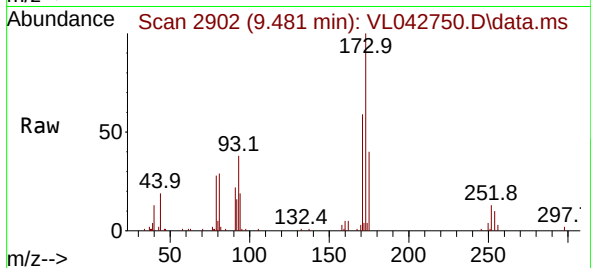
Tgt Ion:173 Resp: 10801

Ion Ratio Lower Upper

173 100

175 50.1 38.4 57.6

171 53.7 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 0.142 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.007 min

Lab File: VL042750.D

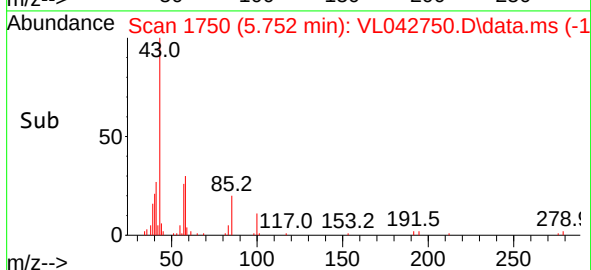
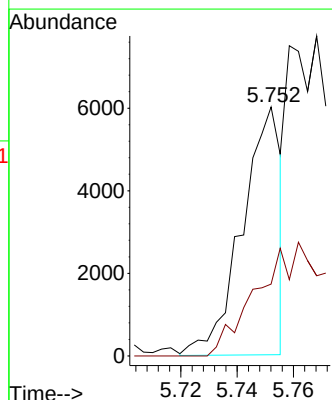
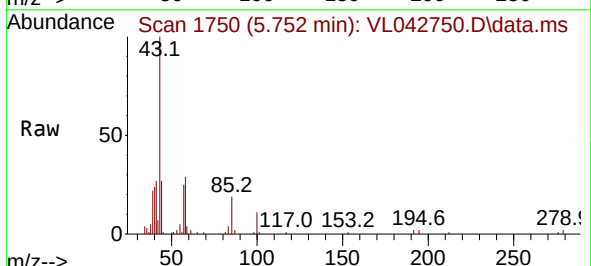
Acq: 23 Jul 2025 10:42

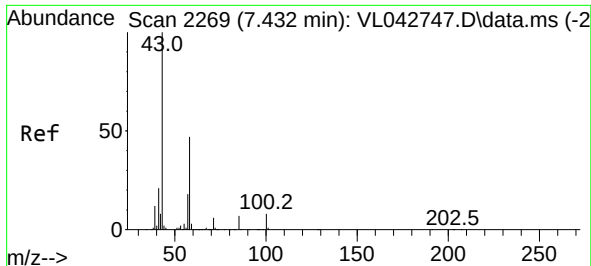
Tgt Ion: 43 Resp: 5736

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#

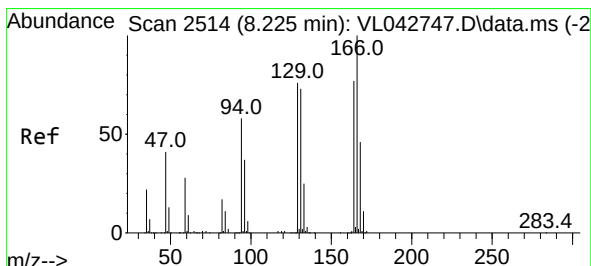
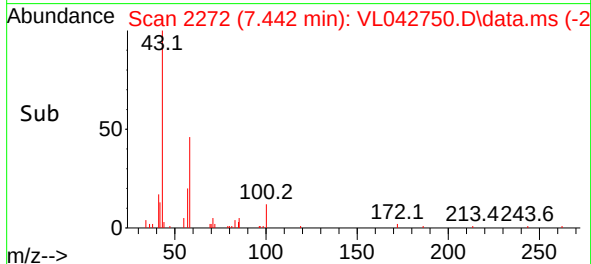
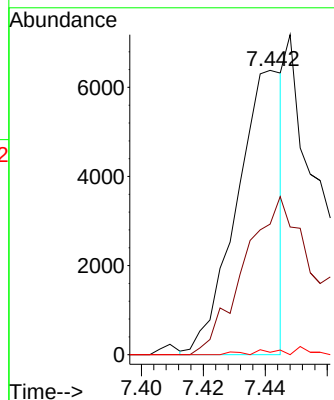
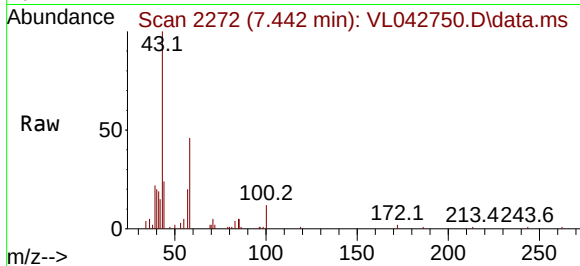




#51
2-Hexanone
Concen: 0.213 ppbv
RT: 7.442 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

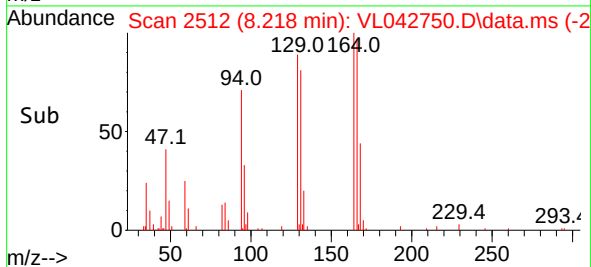
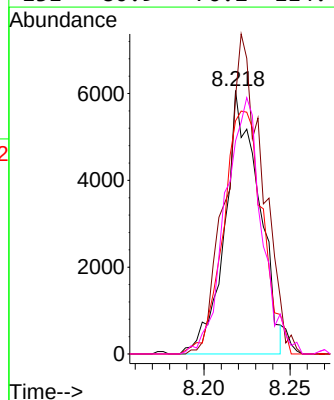
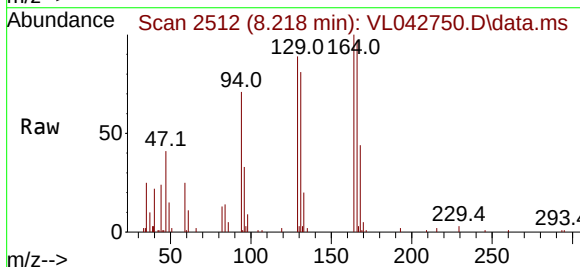
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

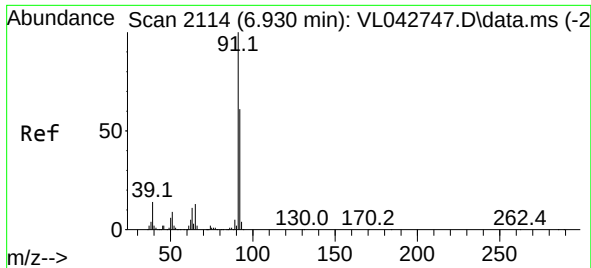
Tgt Ion: 43 Resp: 6572
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.475 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 164 Resp: 8359
Ion Ratio Lower Upper
164 100
166 97.5 104.0 156.0#
129 88.5 79.2 118.8
131 80.9 76.2 114.4





#53

Toluene

Concen: 0.469 ppbv

RT: 6.924 min Scan# 2112

Delta R.T. -0.006 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

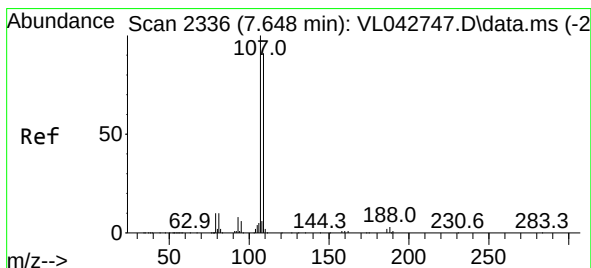
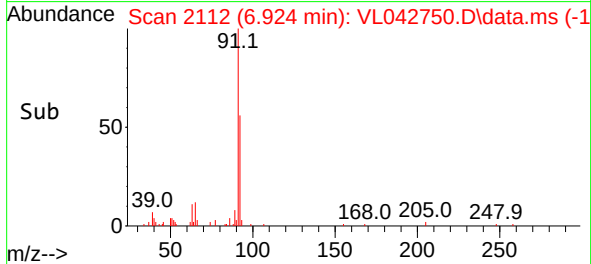
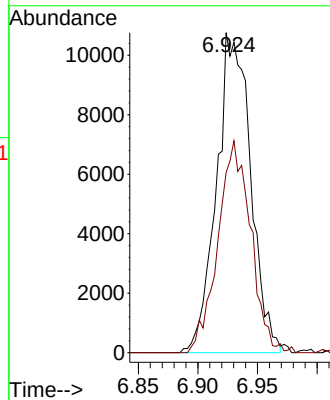
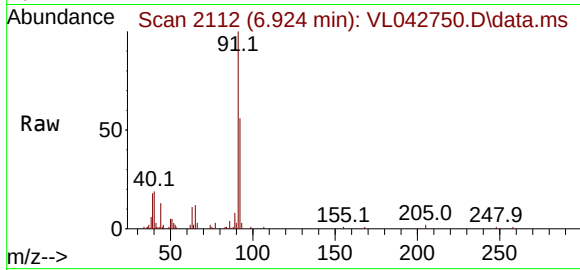
VSTDIC0.5

Tgt Ion: 91 Resp: 21324

Ion Ratio Lower Upper

91 100

92 63.9 48.0 72.0



#54

1,2-Dibromoethane

Concen: 0.277 ppbv

RT: 7.649 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VL042750.D

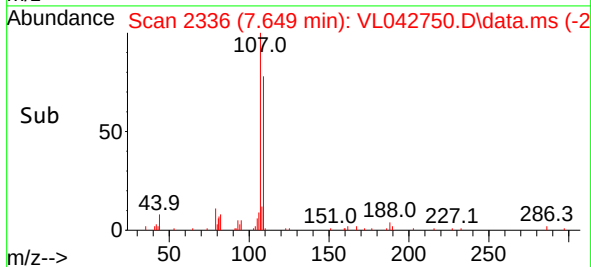
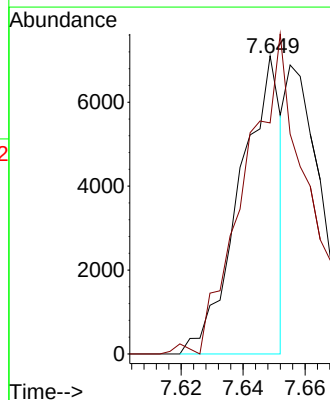
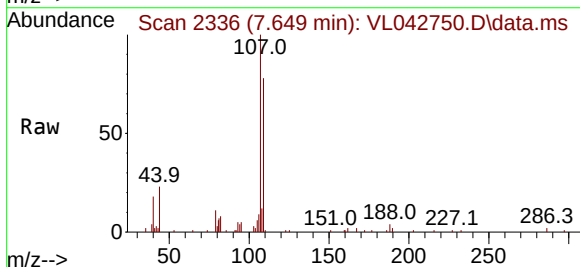
Acq: 23 Jul 2025 10:42

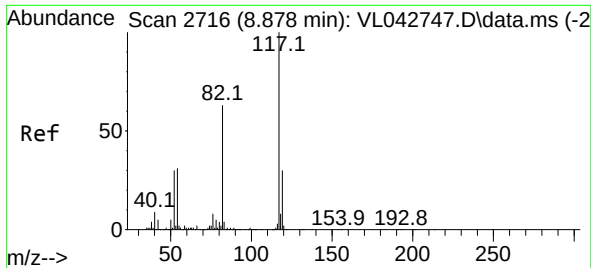
Tgt Ion: 107 Resp: 6536

Ion Ratio Lower Upper

107 100

109 74.1 72.7 109.1

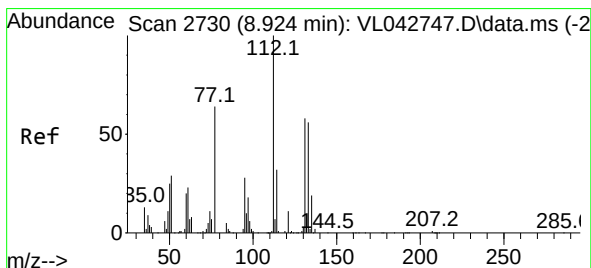
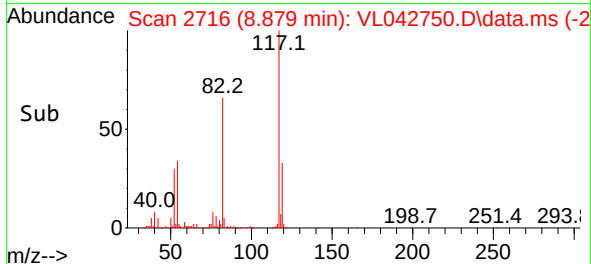
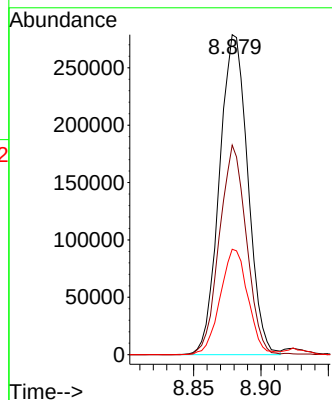
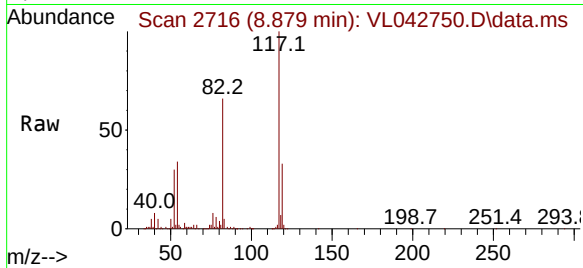




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

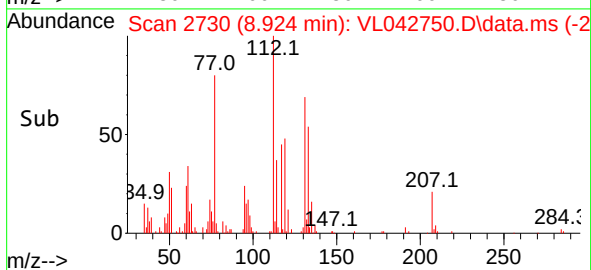
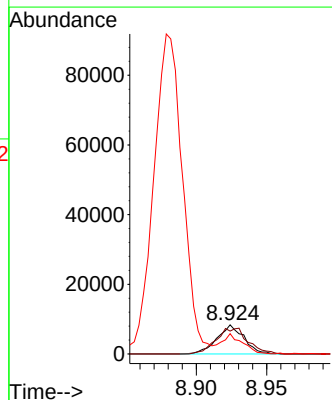
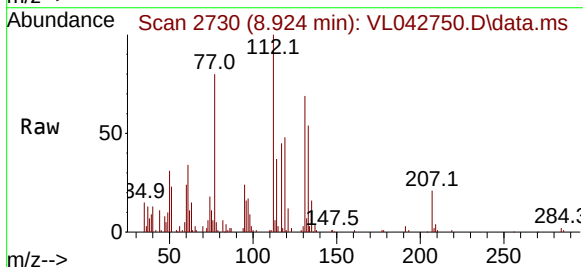
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

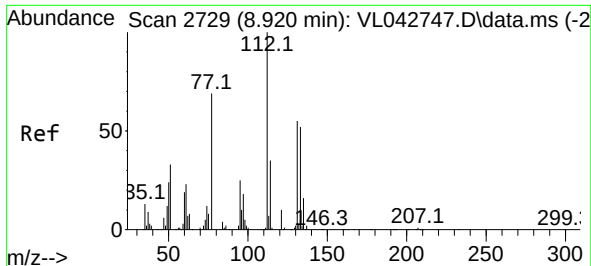
Tgt Ion:117 Resp: 408626
Ion Ratio Lower Upper
117 100
82 62.7 53.3 79.9
119 32.3 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.527 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:131 Resp: 11191
Ion Ratio Lower Upper
131 100
133 104.0 76.8 115.2
119 1231.3 49.7 74.5#

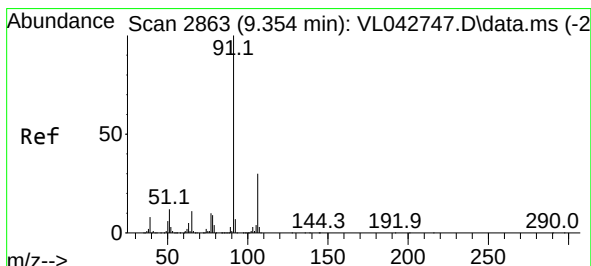
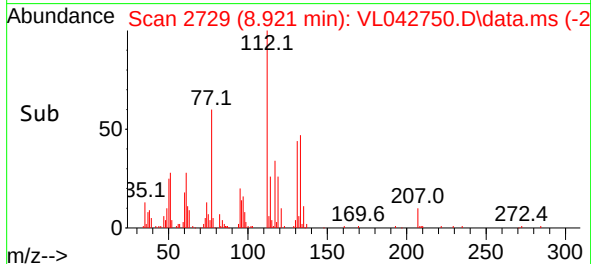
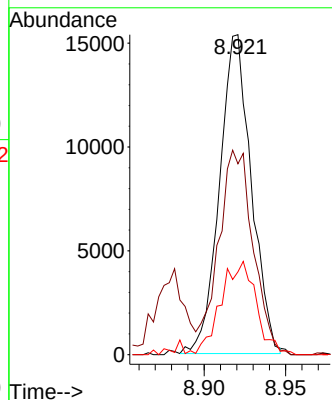
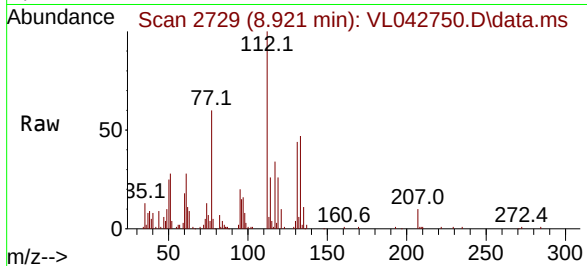




#57
Chlorobenzene
Concen: 0.527 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

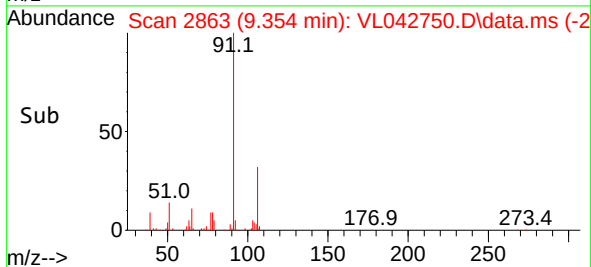
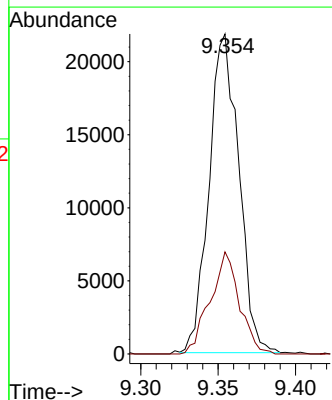
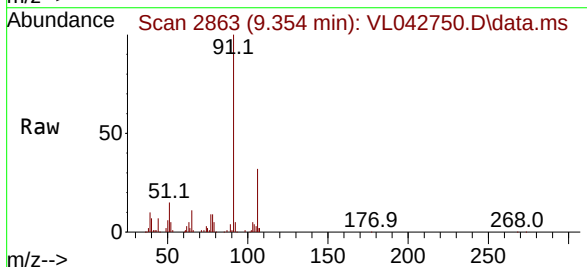
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

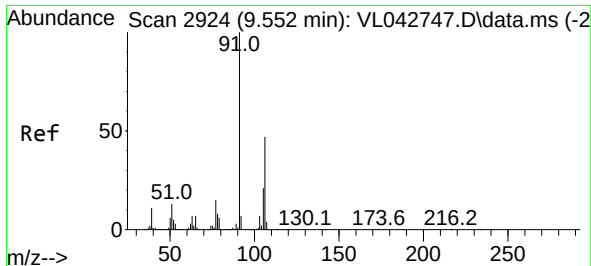
Tgt Ion:112 Resp: 20828
Ion Ratio Lower Upper
112 100
77 58.4 56.4 84.6
114 23.8 31.2 38.2#



#58
Ethyl Benzene
Concen: 0.451 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29134
Ion Ratio Lower Upper
91 100
106 32.0 23.8 35.6





#59

m/p-Xylene

Concen: 0.332 ppbv

RT: 9.549 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

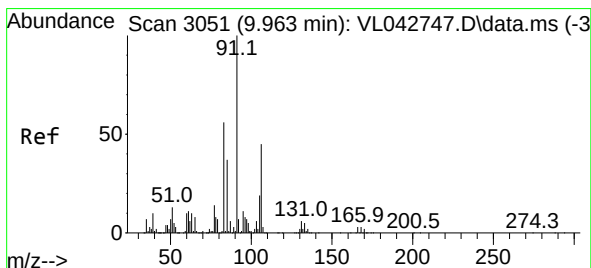
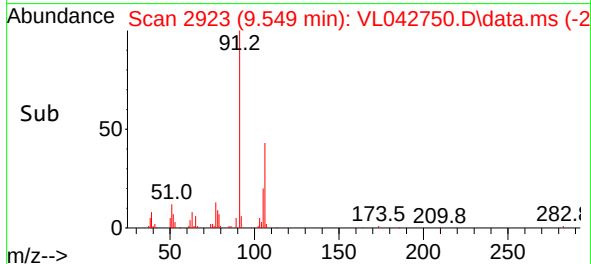
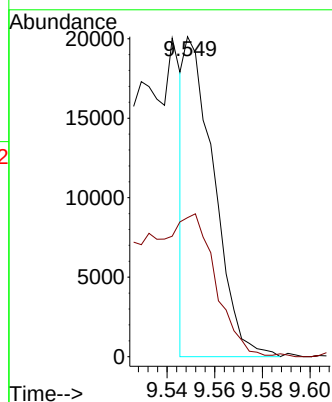
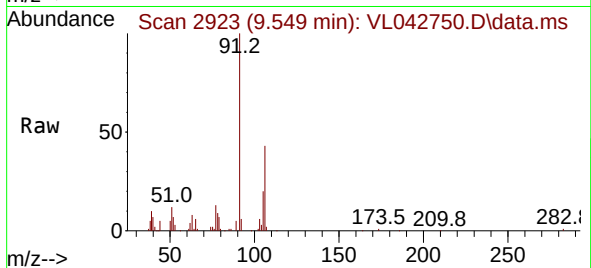
VSTDIC0.5

Tgt Ion: 91 Resp: 17145

Ion Ratio Lower Upper

91 100

106 123.2 37.4 56.2#



#60

o-Xylene

Concen: 0.458 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042750.D

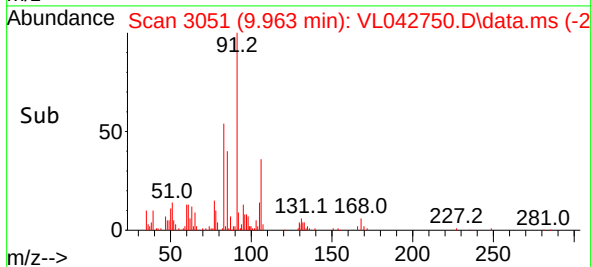
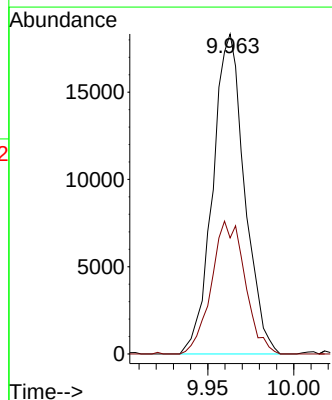
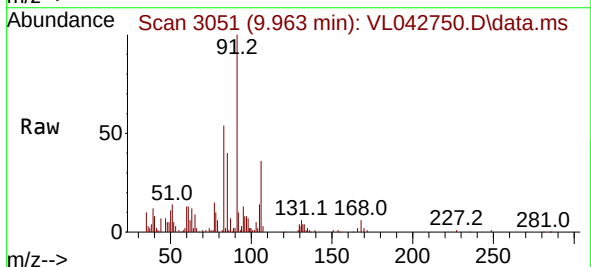
Acq: 23 Jul 2025 10:42

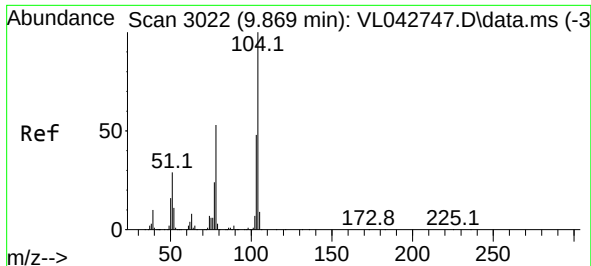
Tgt Ion: 91 Resp: 23603

Ion Ratio Lower Upper

91 100

106 43.8 22.0 66.0





#61

Styrene

Concen: 0.424 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

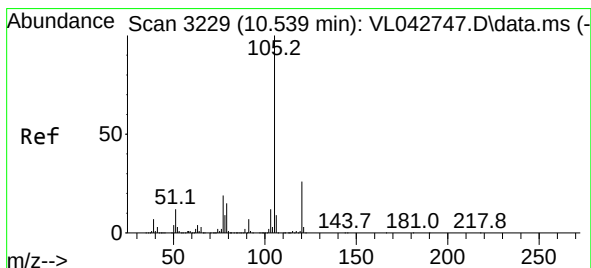
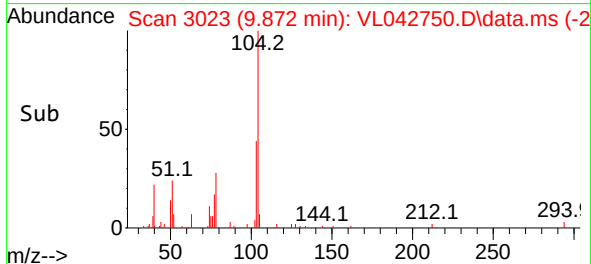
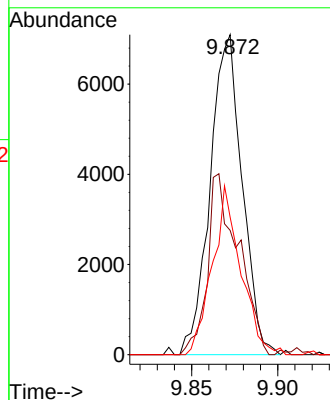
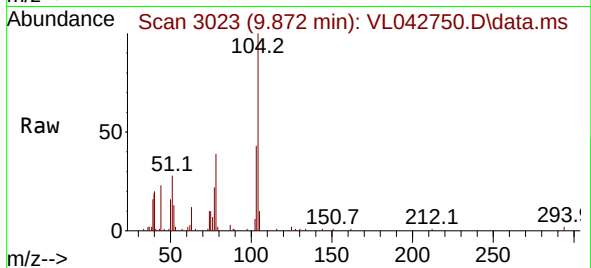
Tgt Ion:104 Resp: 9195

Ion Ratio Lower Upper

104 100

78 55.8 41.5 62.3

103 47.0 37.5 56.3



#62

Isopropylbenzene

Concen: 0.463 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042750.D

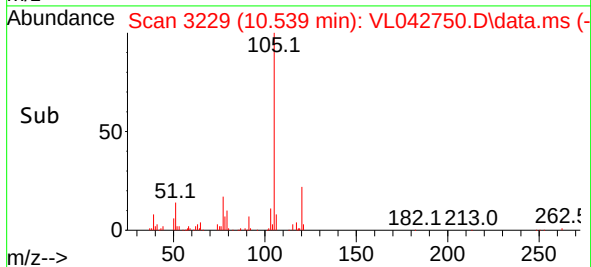
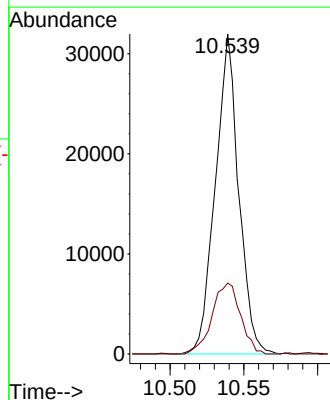
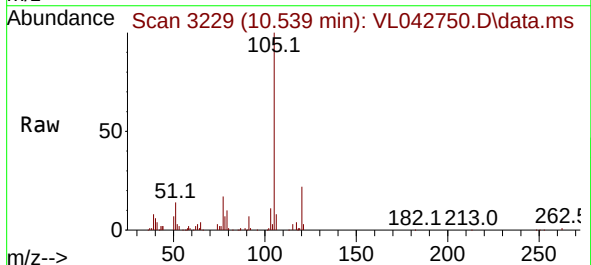
Acq: 23 Jul 2025 10:42

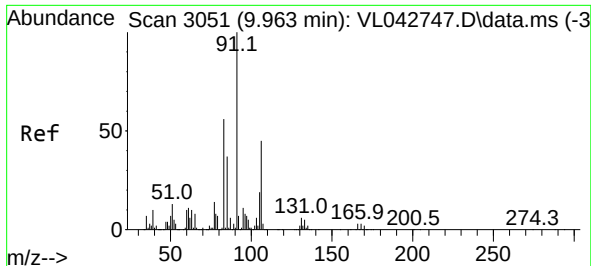
Tgt Ion:105 Resp: 35189

Ion Ratio Lower Upper

105 100

120 26.9 20.5 30.7

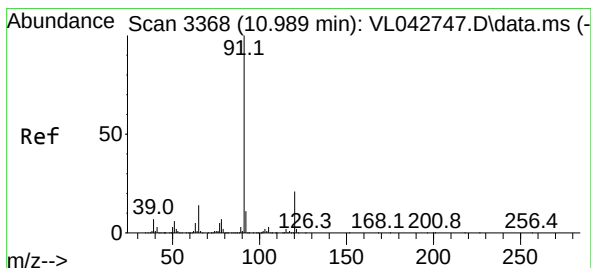
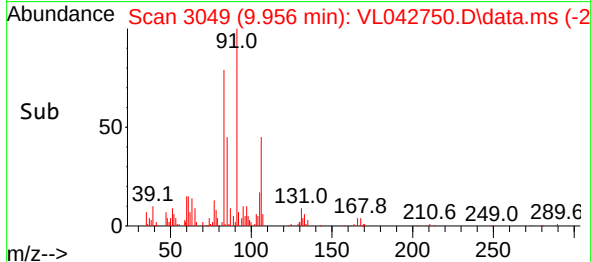
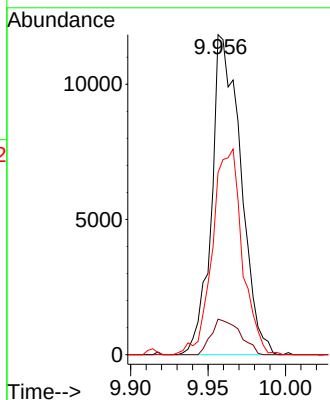
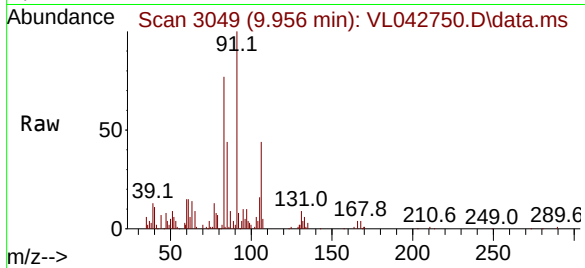




#63
1,1,2,2-Tetrachloroethane
Concen: 0.463 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

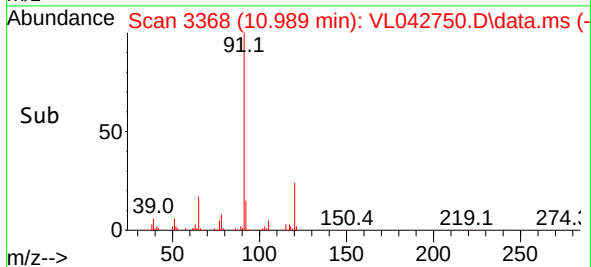
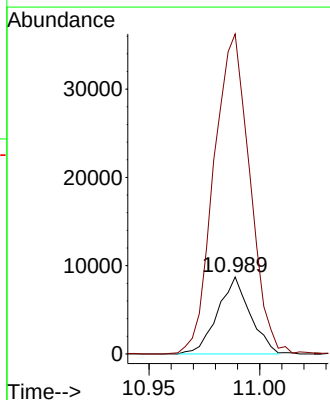
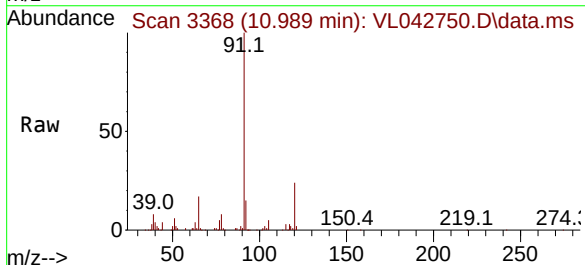
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

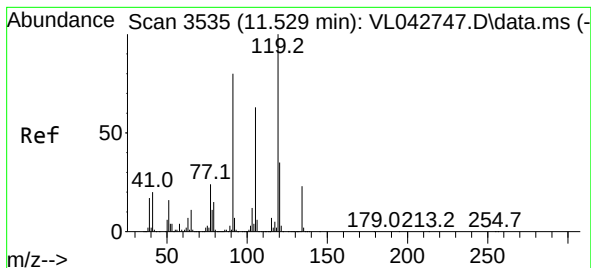
Tgt Ion: 83 Resp: 15544
Ion Ratio Lower Upper
83 100
131 11.0 5.0 15.0
85 66.1 32.6 97.7



#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 120 Resp: 8924
Ion Ratio Lower Upper
120 100
91 464.1 372.7 559.1





#65

tert-Butylbenzene

Concen: 0.453 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

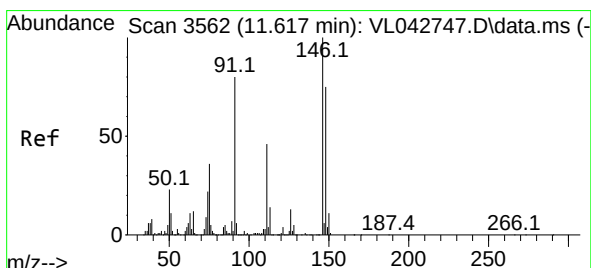
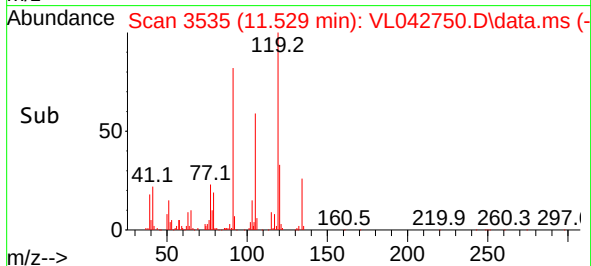
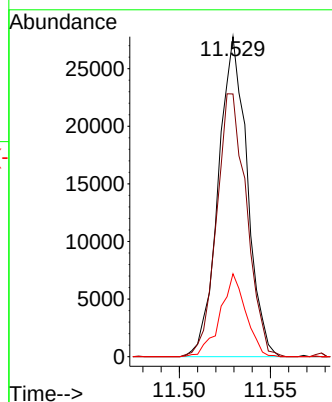
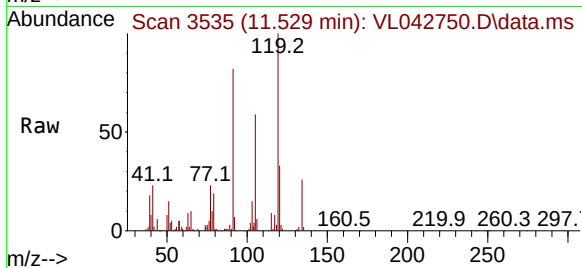
Tgt Ion:119 Resp: 30560

Ion Ratio Lower Upper

119 100

91 85.1 64.0 96.0

134 23.1 17.3 25.9



#66

Benzyl Chloride

Concen: 0.152 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.009 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

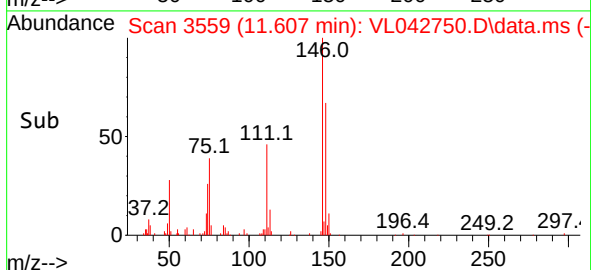
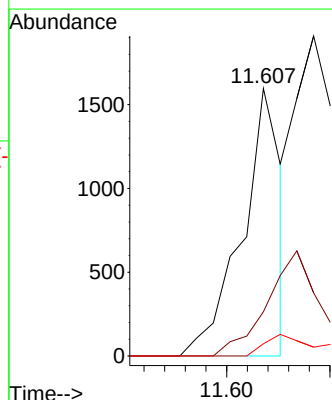
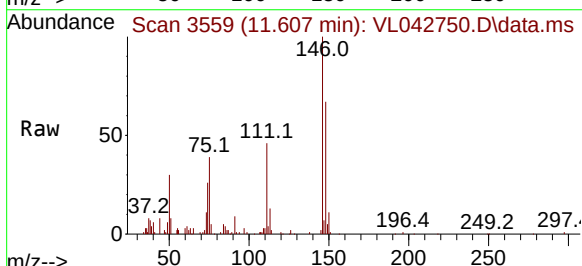
Tgt Ion: 91 Resp: 845

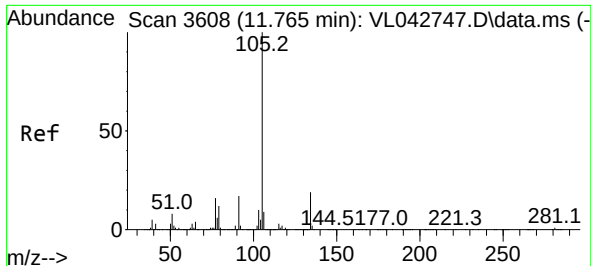
Ion Ratio Lower Upper

91 100

126 57.4 14.4 21.6#

128 15.5 5.2 7.8#

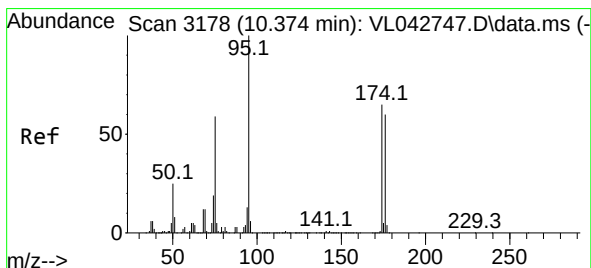
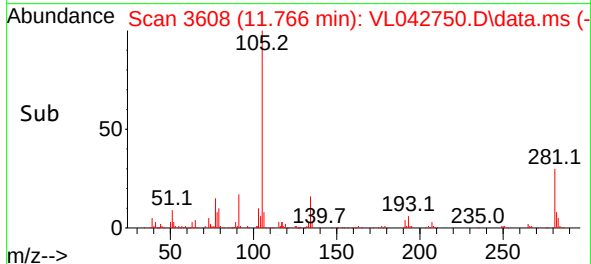
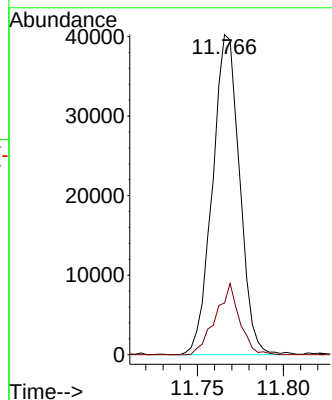
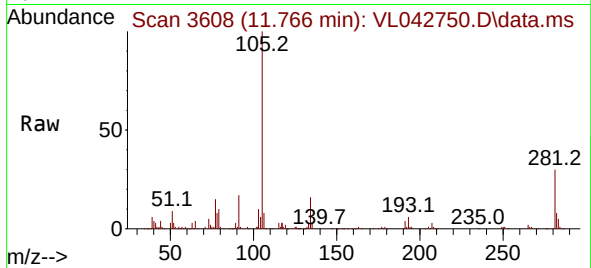




#67
 sec-Butylbenzene
 Concen: 0.460 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

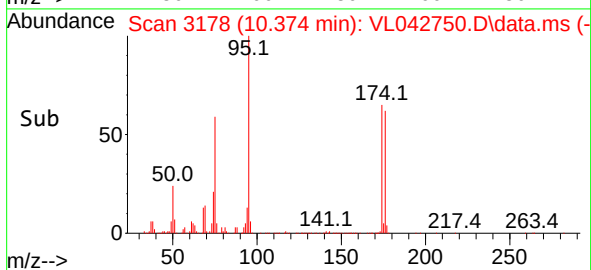
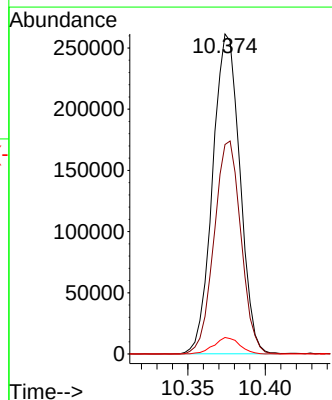
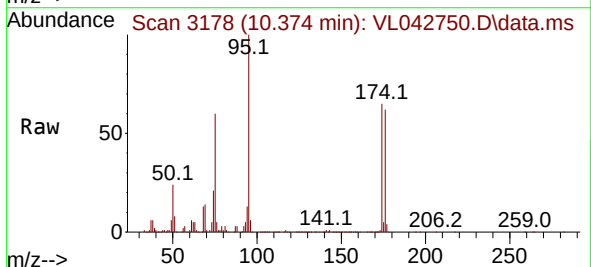
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

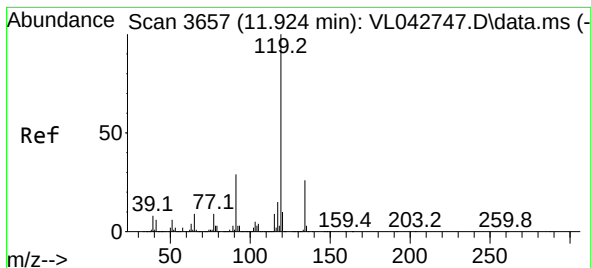
Tgt Ion:105 Resp: 44169
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.869 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 95 Resp: 319353
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.6
 175 4.9 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.423 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

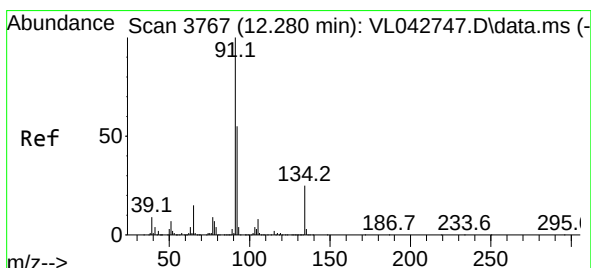
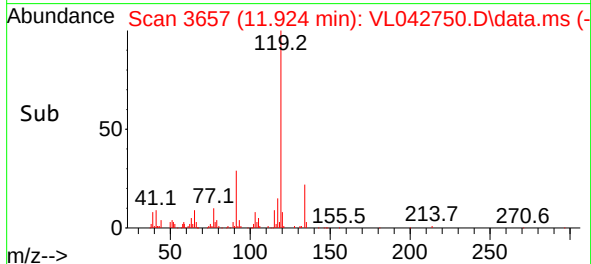
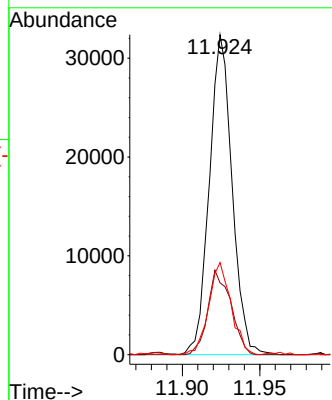
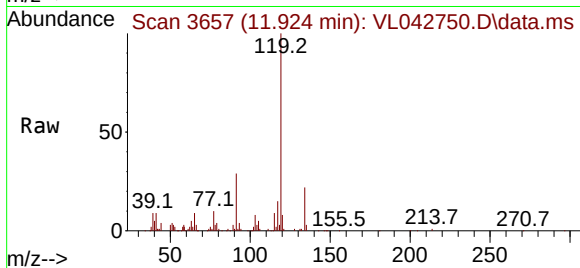
Tgt Ion:119 Resp: 33104

Ion Ratio Lower Upper

119 100

134 26.8 20.6 31.0

91 28.8 23.2 34.8



#70

n-Butylbenzene

Concen: 0.384 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

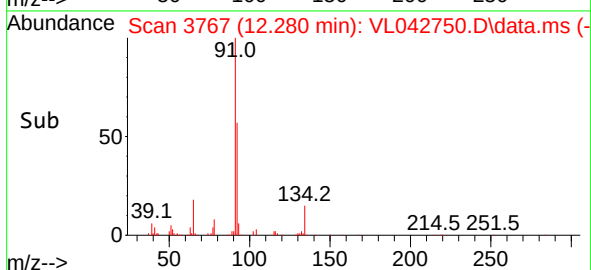
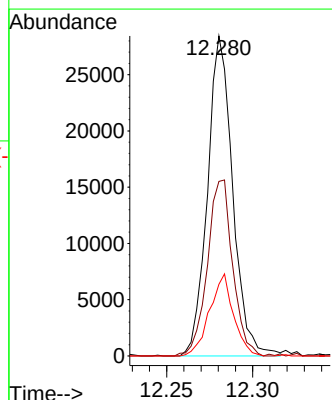
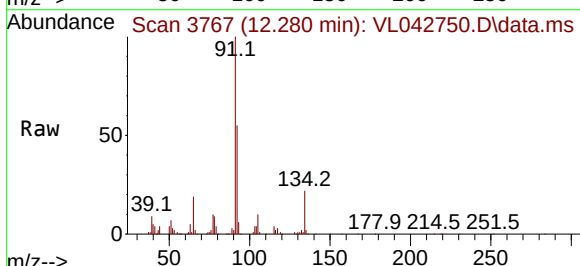
Tgt Ion: 91 Resp: 29048

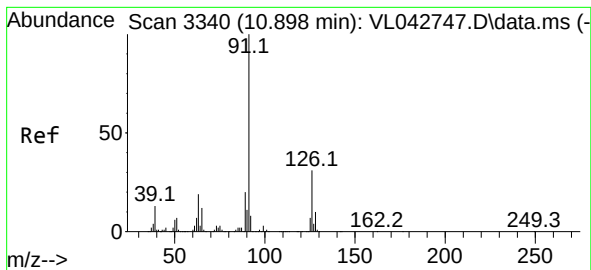
Ion Ratio Lower Upper

91 100

92 55.5 43.4 65.2

134 24.3 19.6 29.4

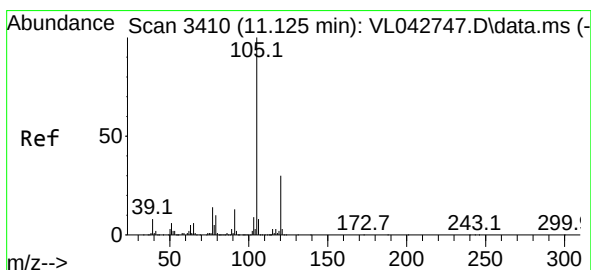
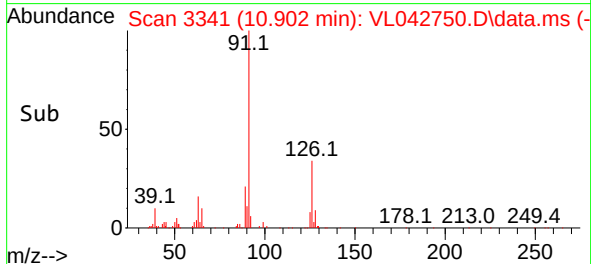
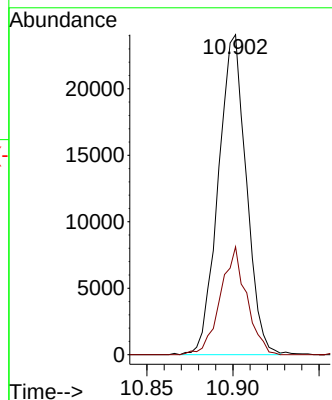
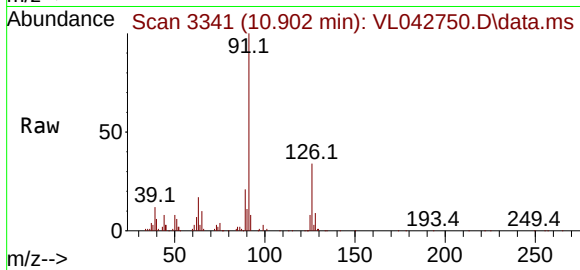




#71
2-Chlorotoluene
Concen: 0.466 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

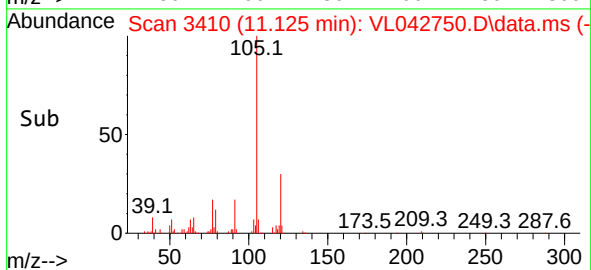
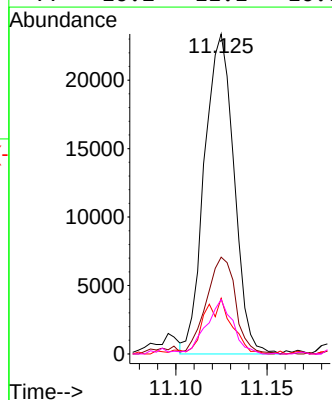
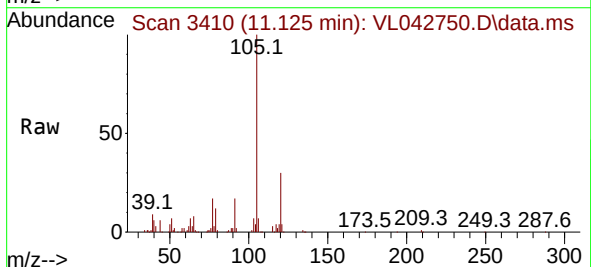
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

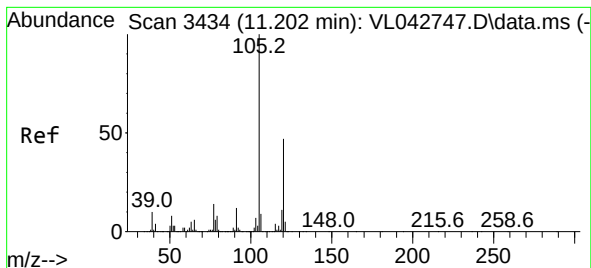
Tgt Ion: 91 Resp: 27184
Ion Ratio Lower Upper
91 100
126 31.7 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 105 Resp: 26395
Ion Ratio Lower Upper
105 100
120 31.6 24.4 36.6
91 17.0 10.6 15.8#
77 16.2 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.442 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

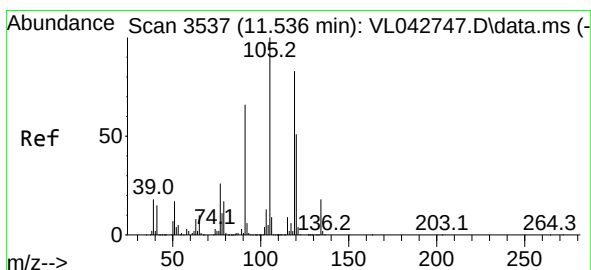
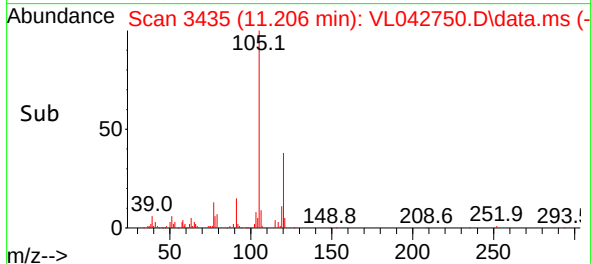
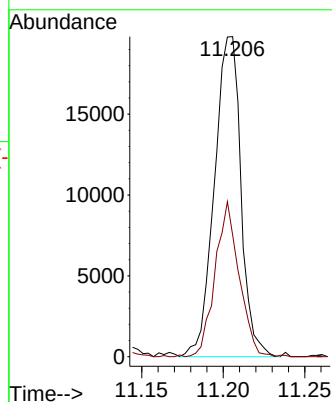
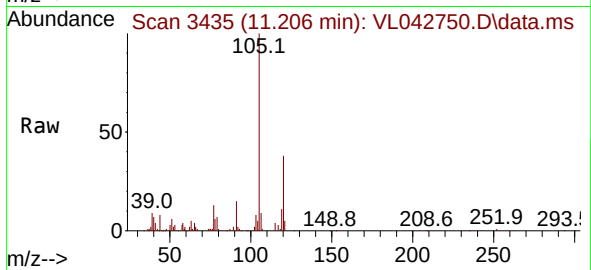
VSTDIC0.5

Tgt Ion:105 Resp: 22392

Ion Ratio Lower Upper

105 100

120 37.5 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.412 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 22772

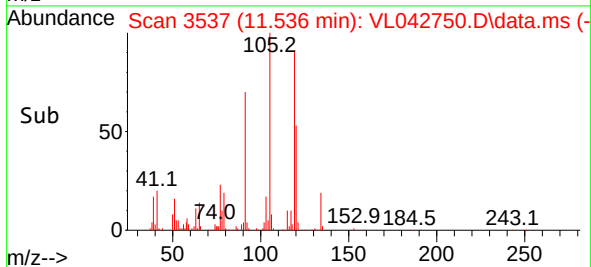
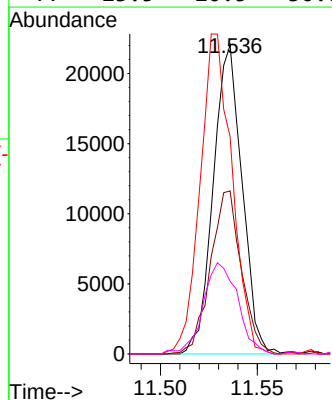
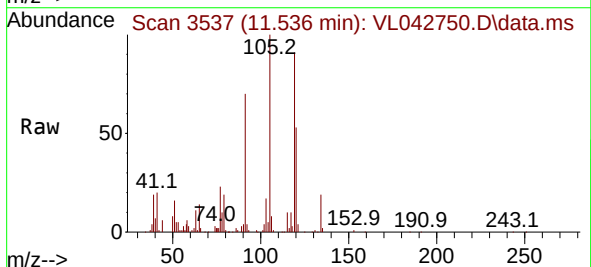
Ion Ratio Lower Upper

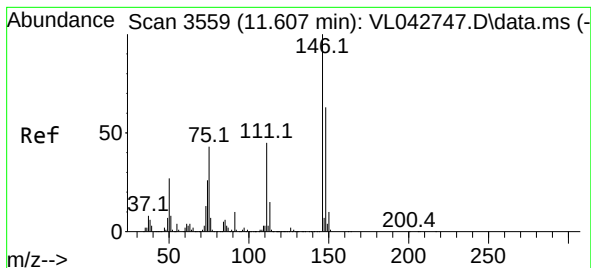
105 100

120 52.7 40.8 61.2

91 70.3 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 0.482 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

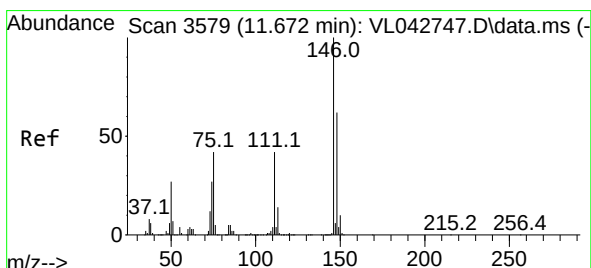
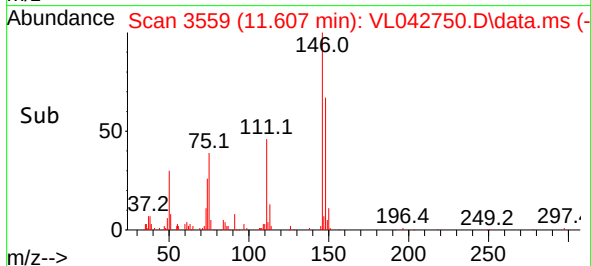
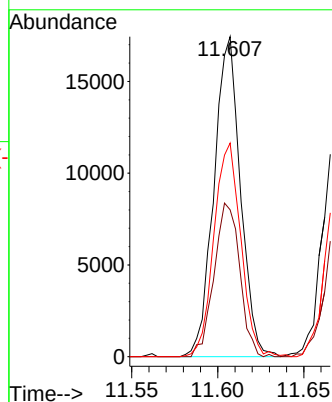
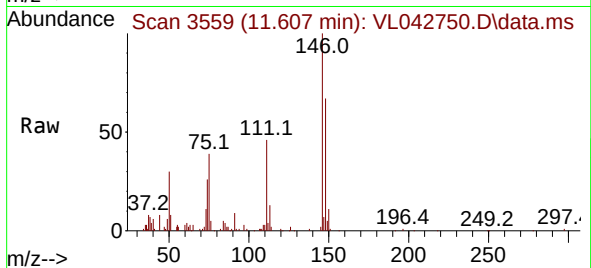
Tgt Ion:146 Resp: 18680

Ion Ratio Lower Upper

146 100

111 46.6 22.7 68.0

148 67.7 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.465 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

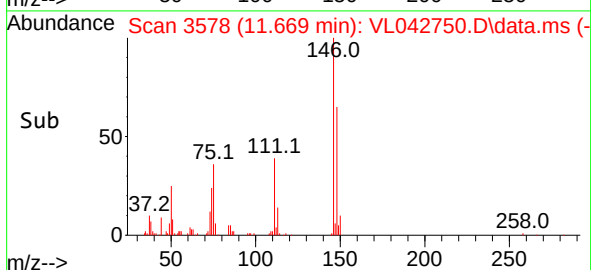
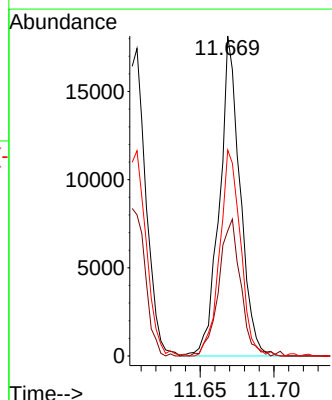
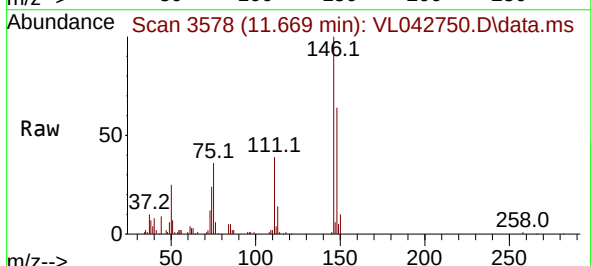
Tgt Ion:146 Resp: 17616

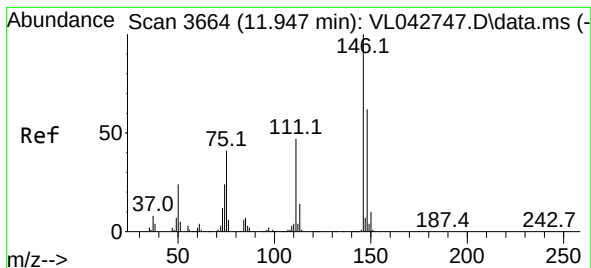
Ion Ratio Lower Upper

146 100

111 45.9 21.4 64.2

148 65.4 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 0.494 ppbv

RT: 11.947 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

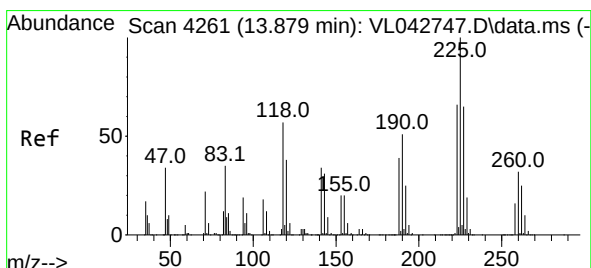
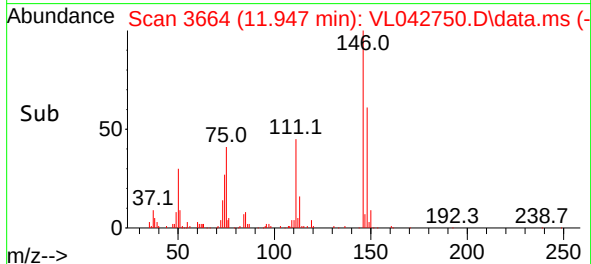
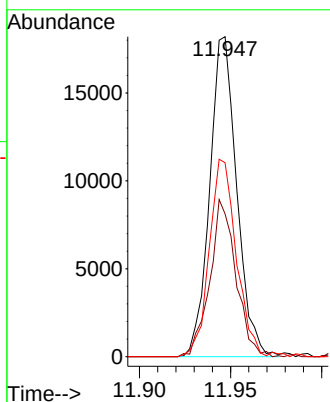
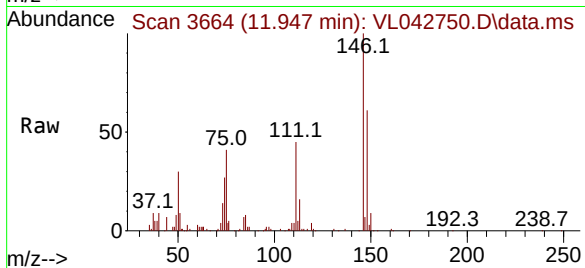
Tgt Ion:146 Resp: 18799

Ion Ratio Lower Upper

146 100

111 47.9 23.7 71.1

148 62.3 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 0.532 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

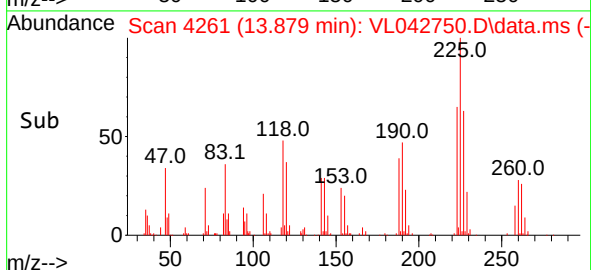
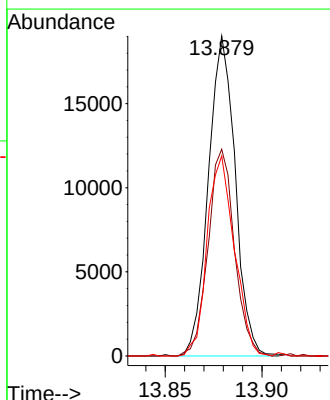
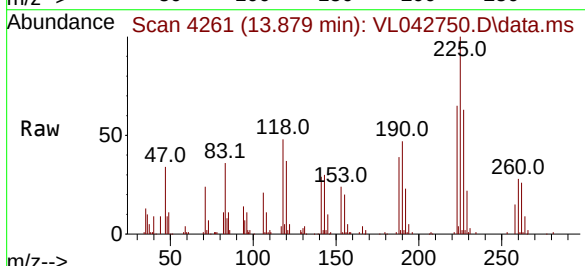
Tgt Ion:225 Resp: 18330

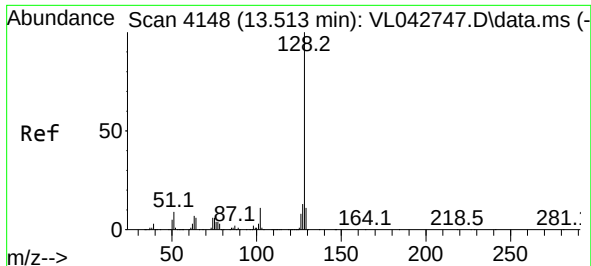
Ion Ratio Lower Upper

225 100

223 63.7 50.7 76.1

227 63.7 50.5 75.7

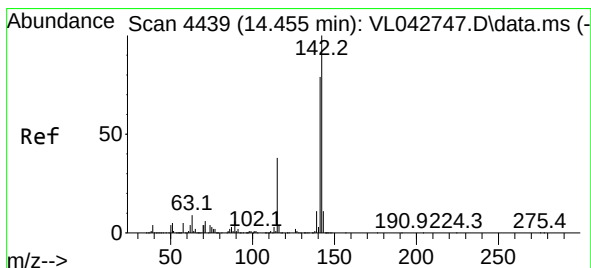
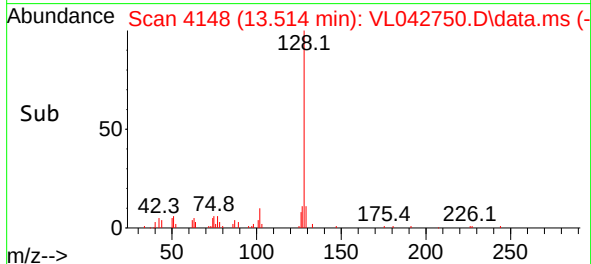
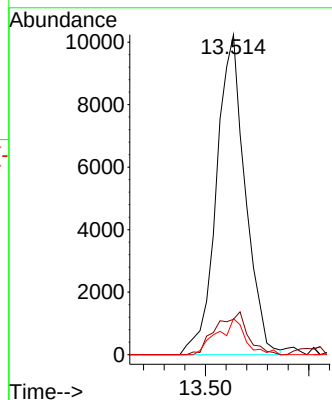
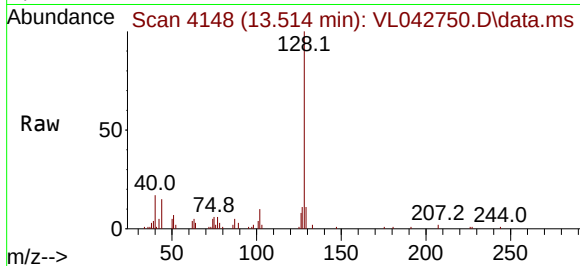




#79
Naphthalene
Concen: 0.592 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

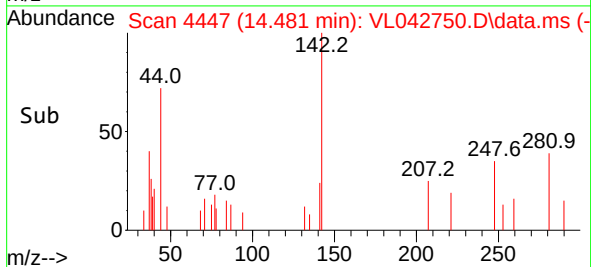
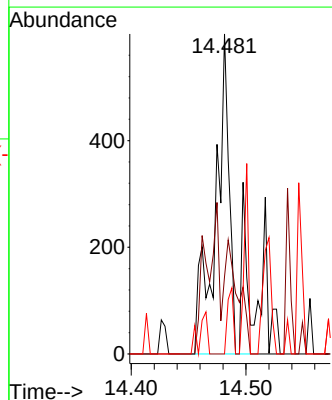
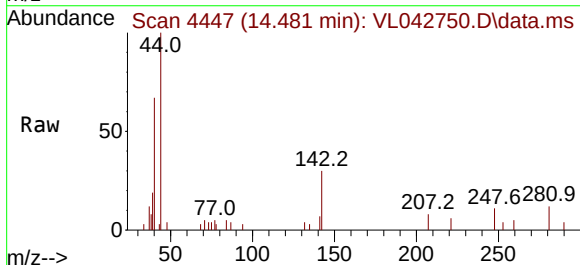
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

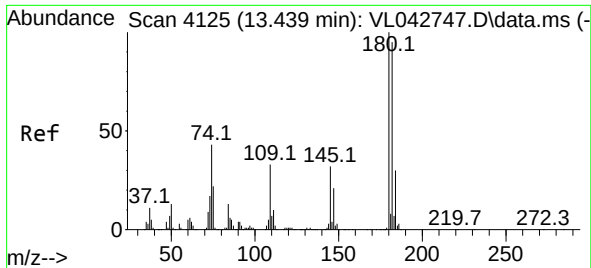
Tgt Ion:128	Resp:	9916
Ion Ratio	Lower	Upper
128	100	
127	11.1	10.5 15.7
129	11.2	8.6 13.0



#80
Naphthalene,2-methyl-
Concen: 1.148 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:142	Resp:	731
Ion Ratio	Lower	Upper
142	100	
141	54.6	65.8 98.8#
115	5.2	31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.645 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042750.D

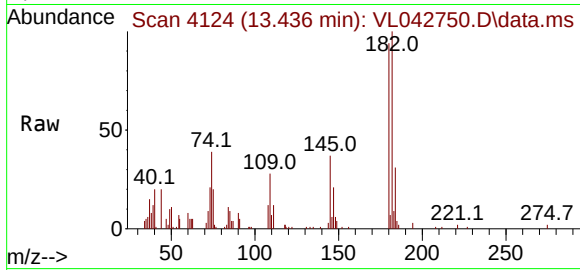
Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



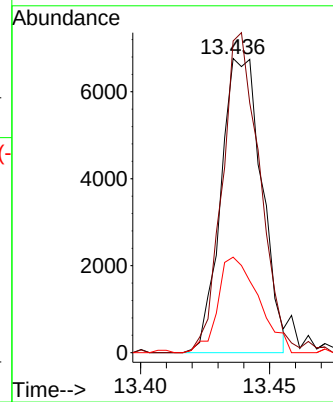
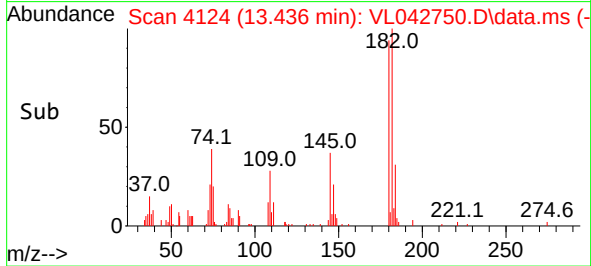
Tgt Ion:180 Resp: 7453

Ion Ratio Lower Upper

180 100

182 100.9 76.2 114.2

184 33.0 24.8 37.2



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 26 06:05:16 2022
 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
2) Dichlorodifluoromethane	1.554	85	753	0.038	ppbv	96
3) Chlorodifluoromethane	1.822	51	331	0.013	ppbv	100
4) Chloromethane	1.531	50	432	0.053	ppbv #	35
5) Vinyl Chloride	1.580	62	376	0.047	ppbv #	68
6) Bromomethane	1.660	94	181	0.058	ppbv #	51
7) Chloroethane	1.703	64	125	0.040	ppbv #	72
8) Dichlorotetrafluoroethane	1.554	85	753	0.046	ppbv	98
9) Propene	1.411	41	190	0.020	ppbv	89
10) Heptane	4.978	43	121	0.005	ppbv #	27
11) Trichlorofluoromethane	1.877	101	936	0.045	ppbv #	76
12) 1,1,2-Trichlorotrifluo...	2.140	101	345	0.022	ppbv #	8
13) Ethanol	1.887	45	511	Below Cal	#	1
14) Bromoethene	1.777	108	156	0.028	ppbv #	1
15) Acetone	1.832	43	2557	0.122	ppbv	91
16) 1,3-Butadiene	1.605	39	502	0.056	ppbv #	8
17) tert-Butyl alcohol	2.042	59	782	0.041	ppbv #	72
18) 1,1-Dichloroethene	2.033	96	312	0.044	ppbv #	57
19) Isopropyl Alcohol	1.887	45	511	0.046	ppbv	98
20) Methylene Chloride	2.059	84	1607	0.243	ppbv #	86
21) Allyl Chloride	2.094	41	856	0.066	ppbv #	28
22) trans-1,2-Dichloroethene	2.337	96	263	0.034	ppbv #	50
23) Vinyl Acetate	2.460	43	1410	0.055	ppbv #	62
24) 1,1-Dichloroethane	2.405	63	715	0.046	ppbv #	94
25) Ethyl Acetate	2.832	43	1085	0.023	ppbv #	65
26) Hexane	2.819	57	704	0.035	ppbv #	1
27) Carbon Disulfide	2.146	76	605	0.035	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	249	0.026	ppbv #	1
29) Chloroform	2.842	83	1324	0.042	ppbv	92
30) Cyclohexane	3.852	84	115	0.007	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	527	0.025	ppbv #	79
32) 1,1,1-Trichloroethane	3.353	97	302	0.009	ppbv #	1
34) 2-Butanone	2.557	43	1423	0.046	ppbv	96
35) Carbon Tetrachloride	3.755	117	427	0.013	ppbv #	43
36) Benzene	3.645	78	1657	0.040	ppbv #	84
37) 1,2-Dichloroethane	3.214	62	902	0.037	ppbv #	81
38) Trichloroethene	4.535	130	438	0.022	ppbv #	24
39) 1,2-Dichloropropane	3.949	63	109883	7.257	ppbv #	21
40) 1,4-Dioxane	4.541	88	32	0.004	ppbv #	1
41) Tetrahydrofuran	3.039	42	84	0.005	ppbv #	38
42) Bromodichloromethane	4.470	83	390	0.012	ppbv #	26
43) Methyl Methacrylate	4.862	69	32	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.628	57	714	0.011	ppbv #	1
45) t-1,3-Dichloropropene	6.392	75	252	0.015	ppbv #	77

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

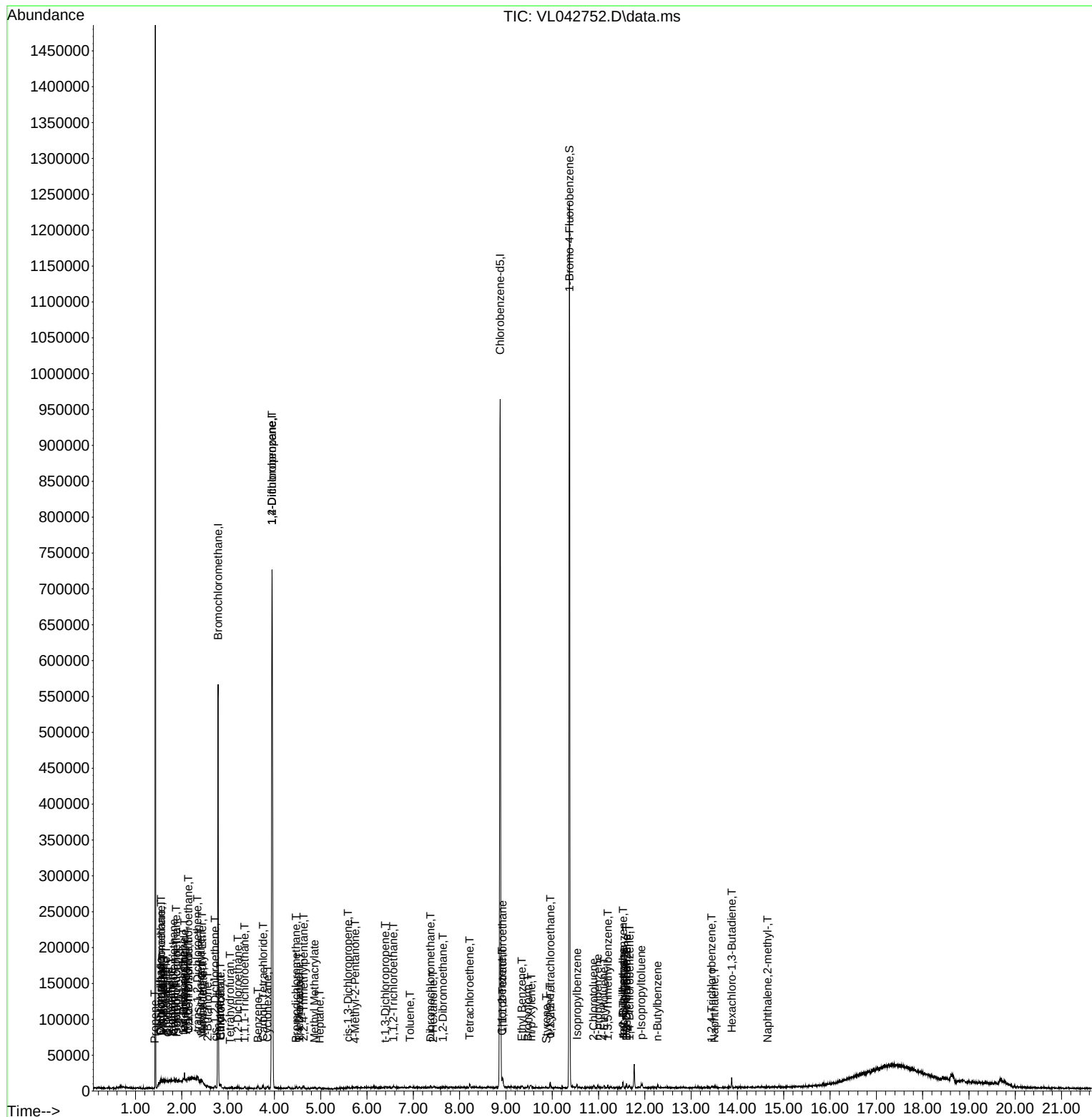
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

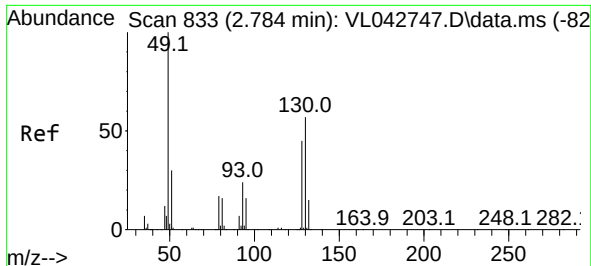
Quant Time: Jul 24 04:59:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.590	75	259	0.012	ppbv	#	26
47) 1,1,2-Trichloroethane	6.570	97	226	0.014	ppbv	#	34
48) Dibromochloromethane	7.370	129	206	0.008	ppbv	#	1
49) Bromoform	9.470	173	346	0.015	ppbv	#	31
50) 4-Methyl-2-Pentanone	5.742	43	157	0.004	ppbv	#	40
51) 2-Hexanone	7.428	43	72	0.002	ppbv	#	30
52) Tetrachloroethene	8.215	164	317	0.019	ppbv	#	35
53) Toluene	6.926	91	832	0.019	ppbv	#	21
54) 1,2-Dibromoethane	7.635	107	155	0.007	ppbv		87
56) 1,1,1,2-Tetrachloroethane	8.924	131	471	0.023	ppbv	#	1
57) Chlorobenzene	8.914	112	852	0.023	ppbv	#	48
58) Ethyl Benzene	9.344	91	837	0.014	ppbv		90
59) m/p-Xylene	9.548	91	1097	0.022	ppbv	#	30
60) o-Xylene	9.953	91	1440	0.029	ppbv		95
61) Styrene	9.872	104	373	0.018	ppbv	#	58
62) Isopropylbenzene	10.535	105	1137	0.016	ppbv	#	48
63) 1,1,2,2-Tetrachloroethane	9.959	83	685	0.022	ppbv	#	57
64) n-propylbenzene	10.985	120	465	0.025	ppbv		78
65) tert-Butylbenzene	11.526	119	1786	0.028	ppbv	#	92
66) Benzyl Chloride	11.600	91	118	0.022	ppbv	#	61
67) sec-Butylbenzene	11.529	105	1421	0.016	ppbv		96
69) p-Isopropyltoluene	11.921	119	1420	0.019	ppbv	#	78
70) n-Butylbenzene	12.273	91	591	0.008	ppbv	#	24
71) 2-Chlorotoluene	10.895	91	547	0.010	ppbv	#	45
72) 4-Ethyltoluene	11.118	105	1098	0.019	ppbv	#	78
73) 1,3,5-Trimethylbenzene	11.202	105	1204	0.025	ppbv		96
74) 1,2,4-Trimethylbenzene	11.529	105	1421	0.027	ppbv		88
75) 1,3-Dichlorobenzene	11.600	146	1122	0.031	ppbv		86
76) 1,4-Dichlorobenzene	11.668	146	658	0.018	ppbv	#	71
77) 1,2-Dichlorobenzene	11.600	146	1122	0.031	ppbv		89
78) Hexachloro-1,3-Butadiene	13.876	225	1559	0.048	ppbv	#	86
79) Naphthalene	13.503	128	126	0.436	ppbv	#	69
80) Naphthalene,2-methyl-	14.649	142	15	1.127	ppbv	#	23
81) 1,2,4-Trichlorobenzene	13.439	180	170	0.438	ppbv	#	1

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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

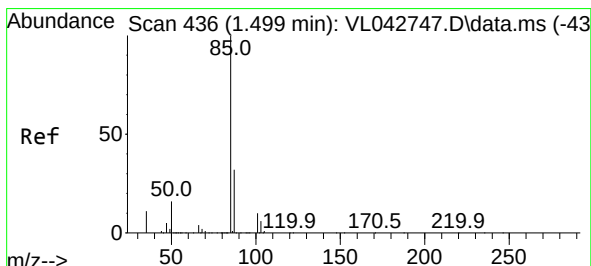
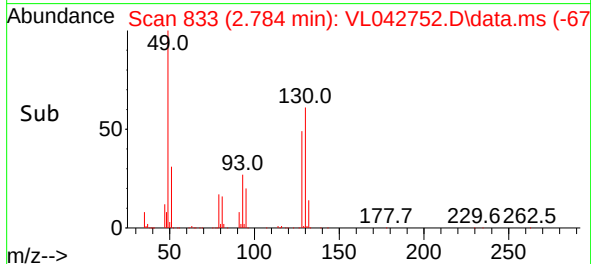
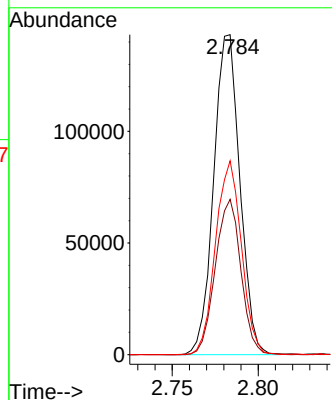
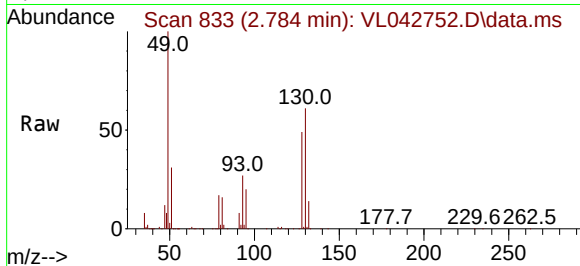




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

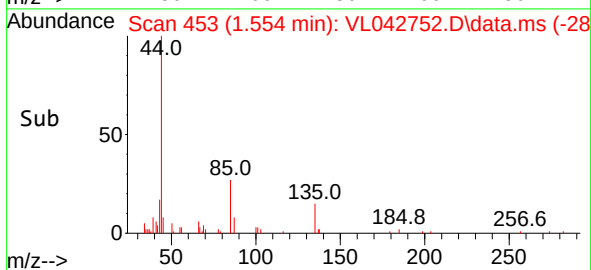
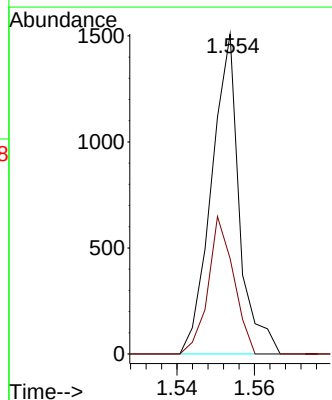
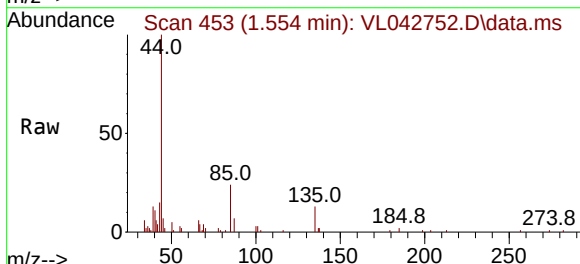
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

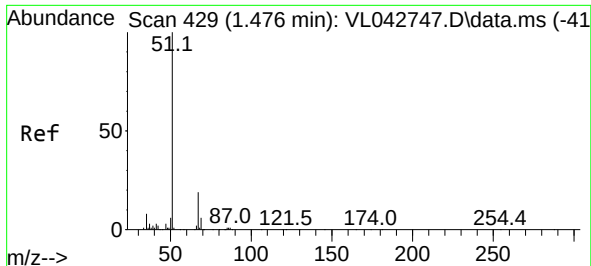
Tgt Ion: 49 Resp: 151834
Ion Ratio Lower Upper
49 100
128 47.5 23.6 71.0
130 60.2 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.055 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 85 Resp: 753
Ion Ratio Lower Upper
85 100
87 29.8 25.4 38.2

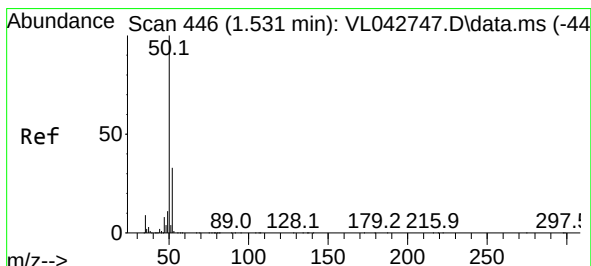
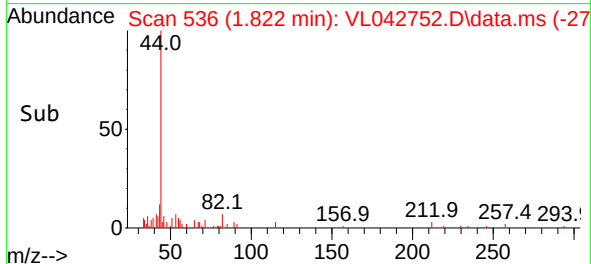
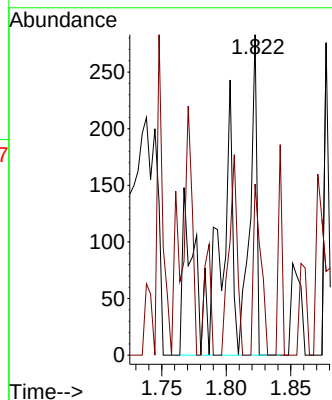
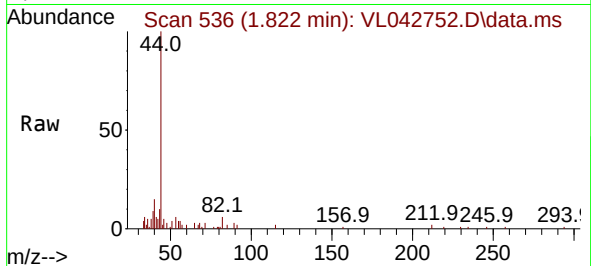




#3
Chlorodifluoromethane
Concen: 0.013 ppbv
RT: 1.822 min Scan# 51
Delta R.T. 0.346 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

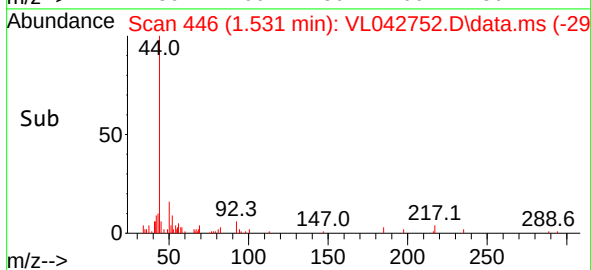
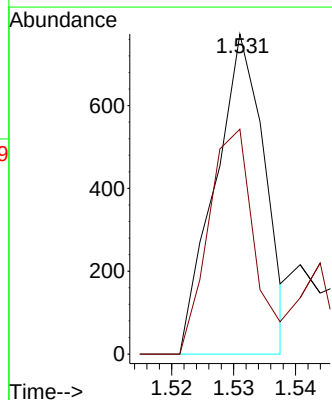
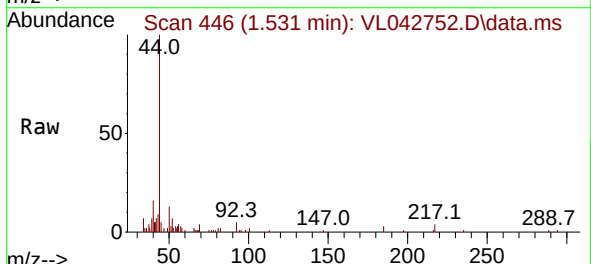
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

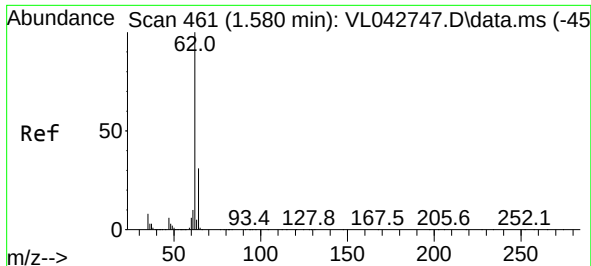
Tgt Ion: 51 Resp: 331
Ion Ratio Lower Upper
51 100
67 18.7 15.0 22.6



#4
Chloromethane
Concen: 0.053 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 50 Resp: 432
Ion Ratio Lower Upper
50 100
52 70.2 26.6 40.0#

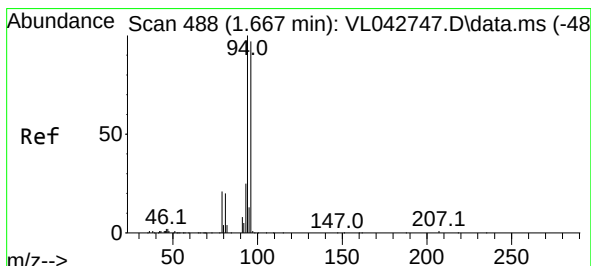
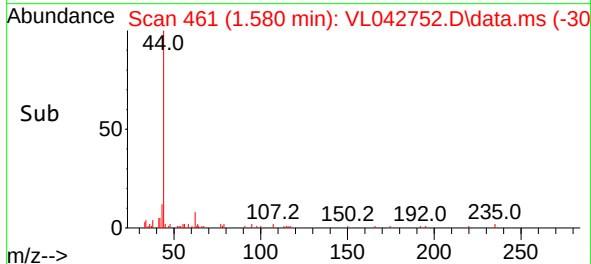
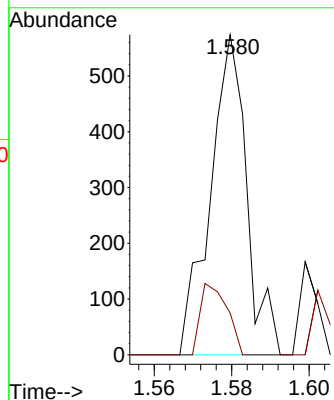
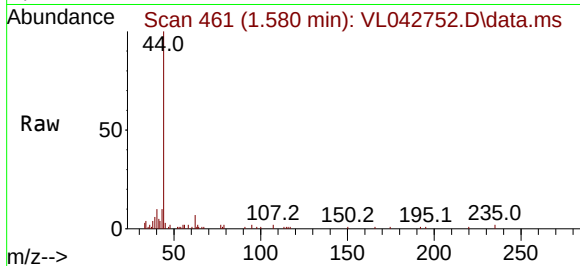




#5
 Vinyl Chloride
 Concen: 0.047 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

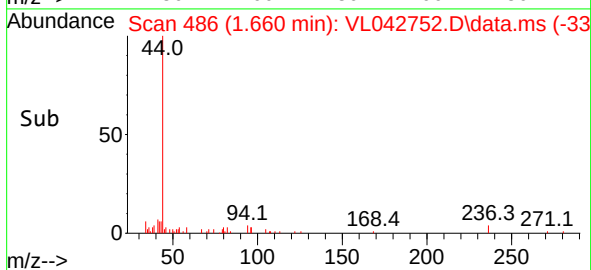
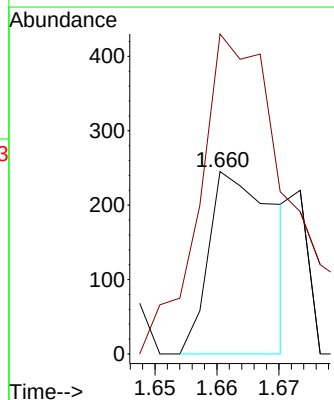
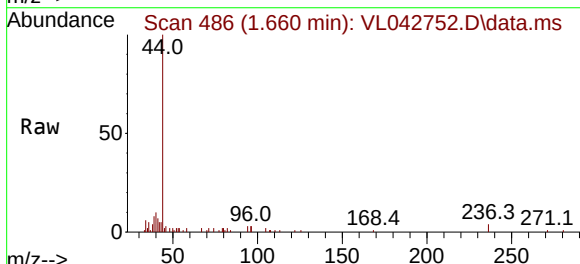
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

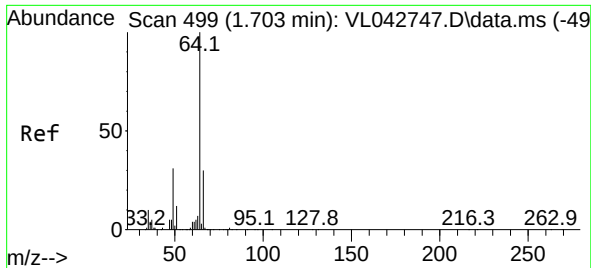
Tgt Ion: 62 Resp: 376
 Ion Ratio Lower Upper
 62 100
 64 13.1 24.5 36.7#



#6
 Bromomethane
 Concen: 0.058 ppbv
 RT: 1.660 min Scan# 486
 Delta R.T. -0.007 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 94 Resp: 181
 Ion Ratio Lower Upper
 94 100
 96 144.9 77.6 116.4#

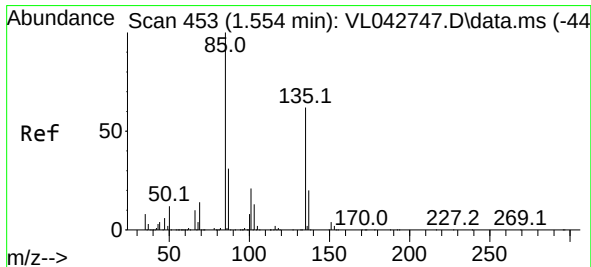
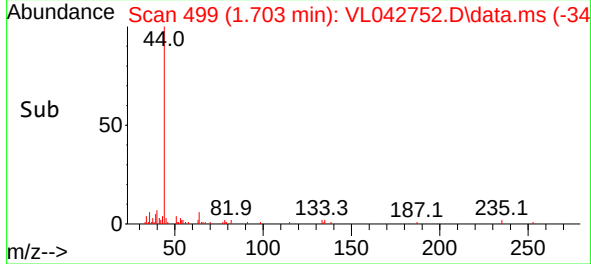
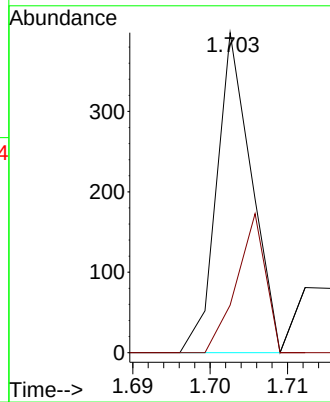
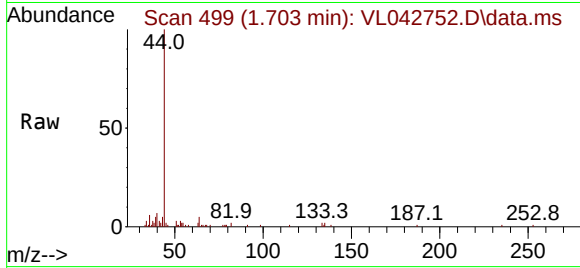




#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

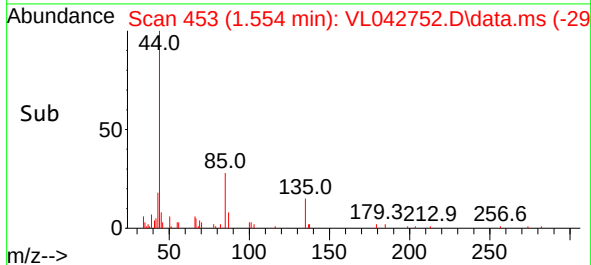
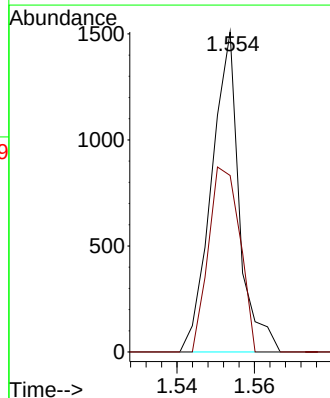
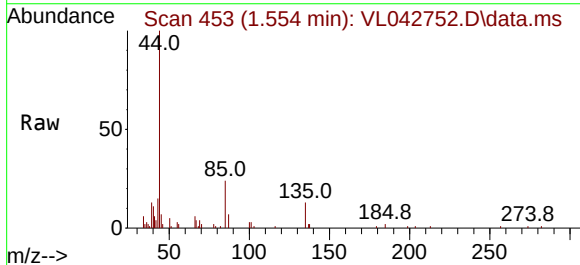
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

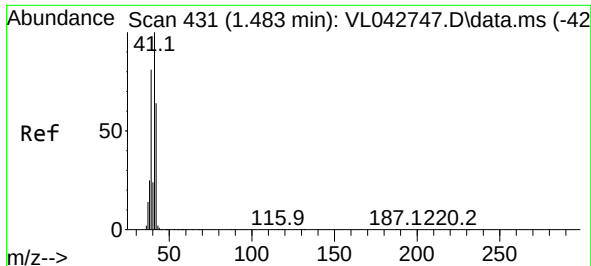
Tgt Ion: 64 Resp: 125
Ion Ratio Lower Upper
64 100
66 14.8 24.1 36.1#



#8
Dichlorotetrafluoroethane
Concen: 0.046 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 85 Resp: 753
Ion Ratio Lower Upper
85 100
135 65.1 50.6 76.0

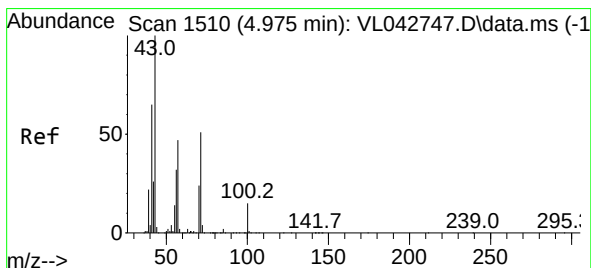
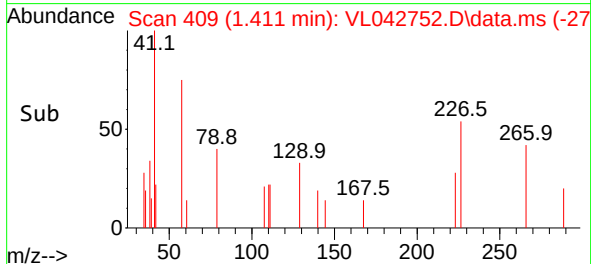
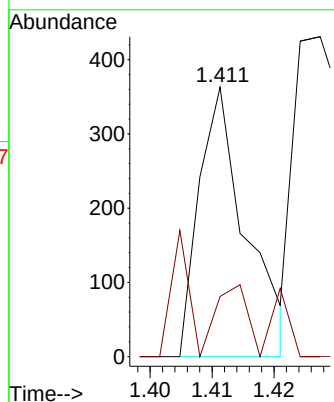
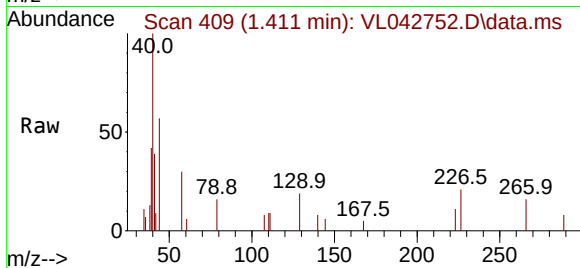




#9
 Propene
 Concen: 0.020 ppbv
 RT: 1.411 min Scan# 409
 Delta R.T. -0.071 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

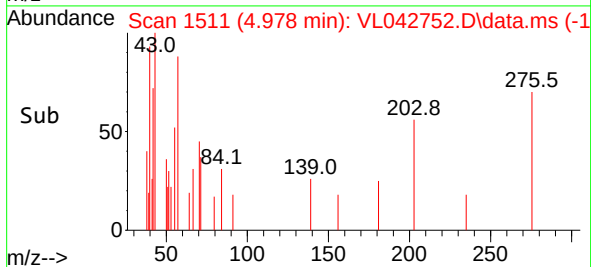
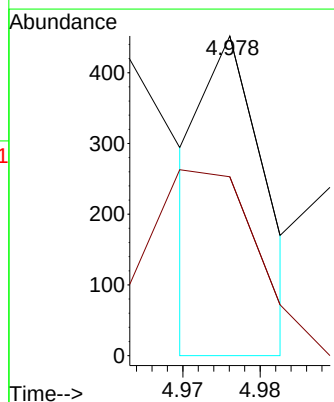
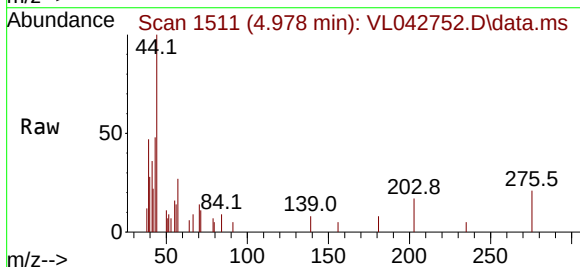
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

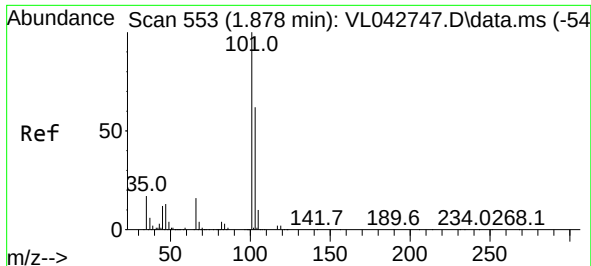
Tgt Ion: 41 Resp: 190
 Ion Ratio Lower Upper
 41 100
 42 57.9 53.2 79.8



#10
 Heptane
 Concen: 0.005 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 43 Resp: 121
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.9 59.9#

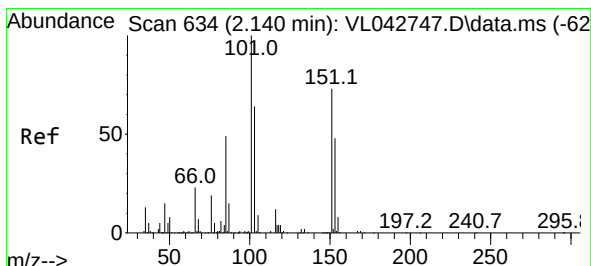
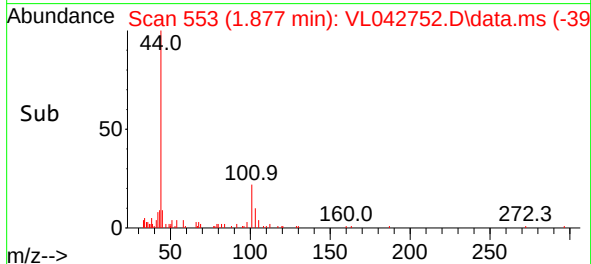
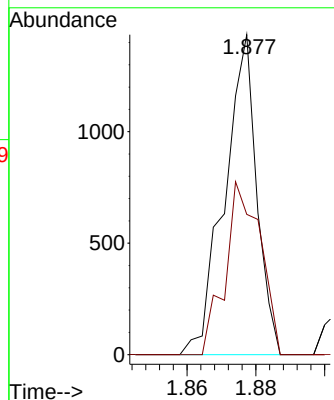
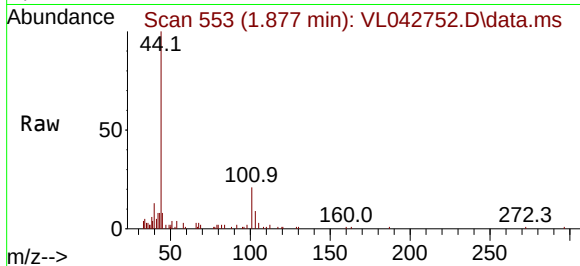




#11
 Trichlorofluoromethane
 Concen: 0.045 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

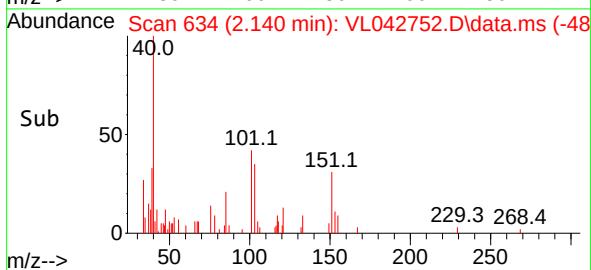
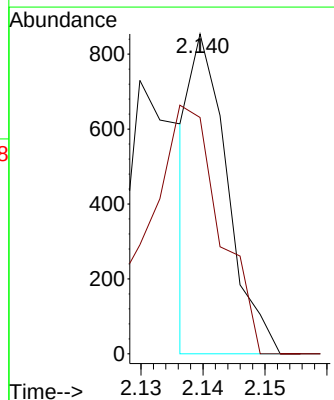
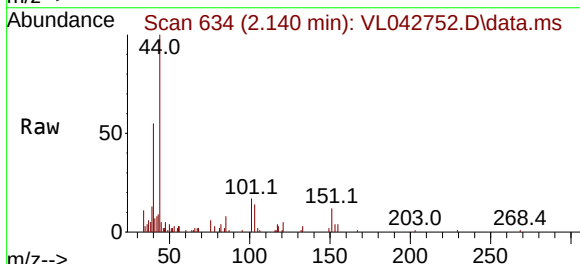
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

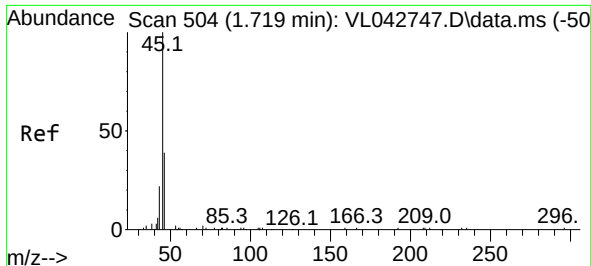
Tgt Ion:101 Resp: 936
 Ion Ratio Lower Upper
 101 100
 103 43.8 49.6 74.4#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.022 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion:101 Resp: 345
 Ion Ratio Lower Upper
 101 100
 151 154.5 60.5 90.7#

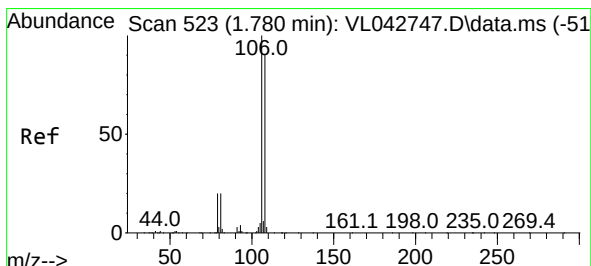
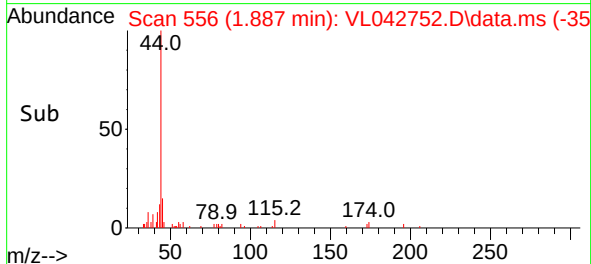
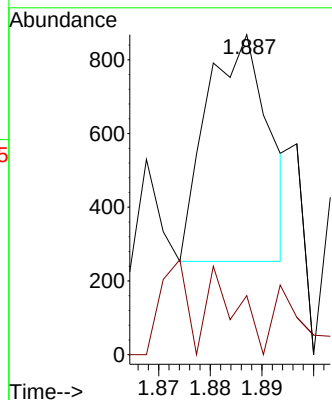
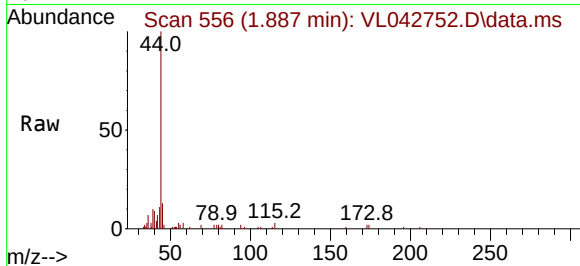




#13
 Ethanol
 Concen: Below Cal
 RT: 1.887 min Scan# 511
 Delta R.T. 0.168 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

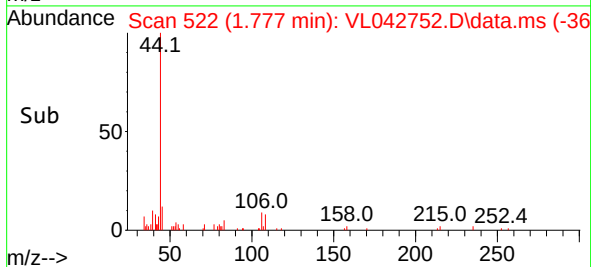
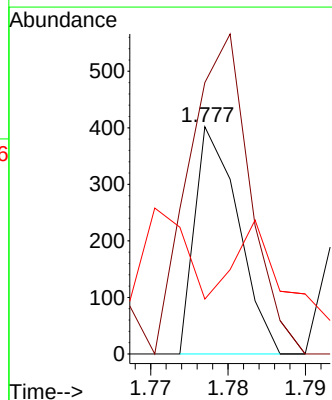
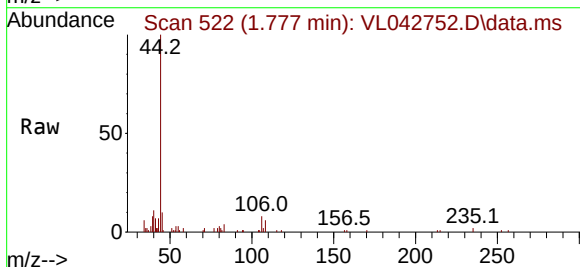
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

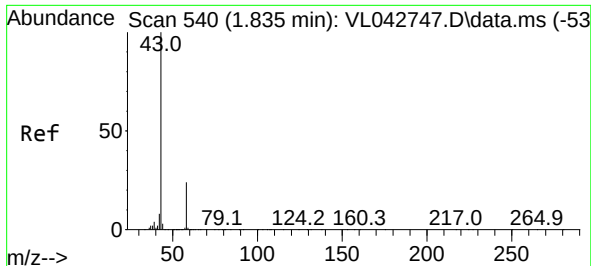
Tgt Ion: 45 Resp: 511
 Ion Ratio Lower Upper
 45 100
 46 146.4 17.8 71.4#



#14
 Bromoethene
 Concen: 0.028 ppbv
 RT: 1.777 min Scan# 522
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 108 Resp: 156
 Ion Ratio Lower Upper
 108 100
 106 219.2 84.7 127.1#
 79 223.7 17.4 26.2#

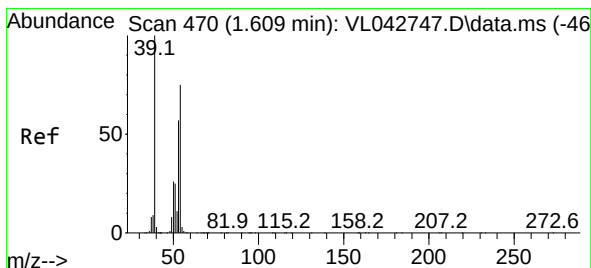
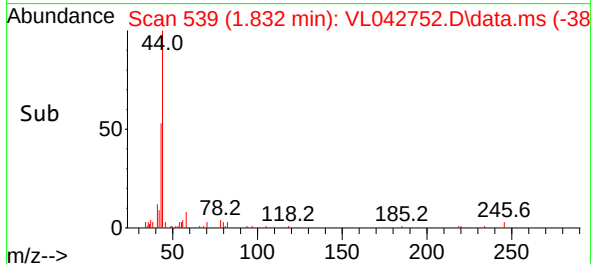
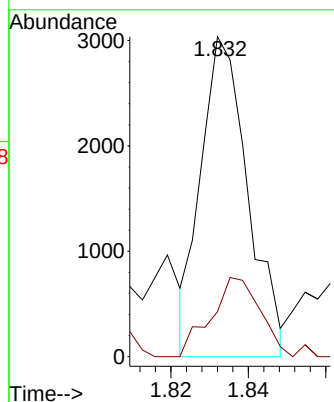
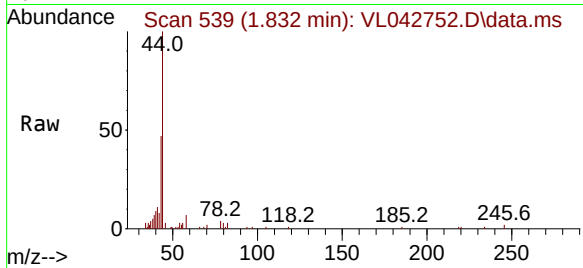




#15
Acetone
Concen: 0.122 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

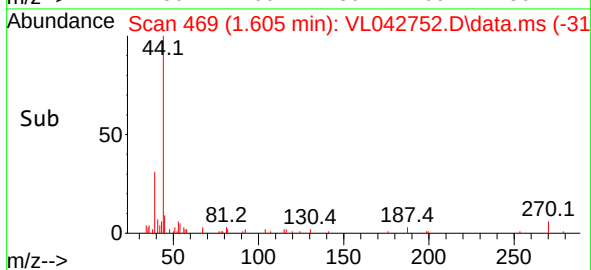
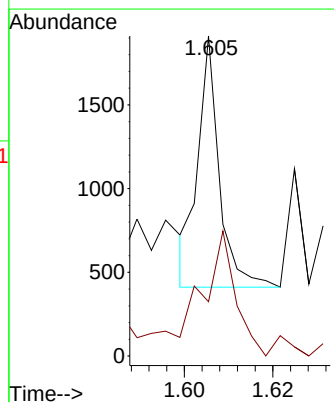
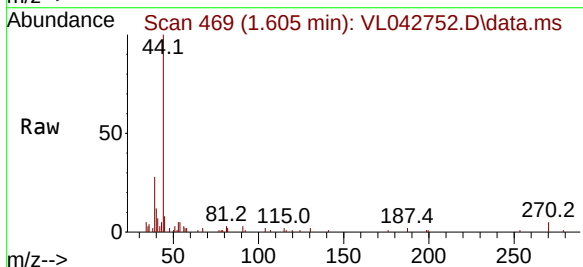
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

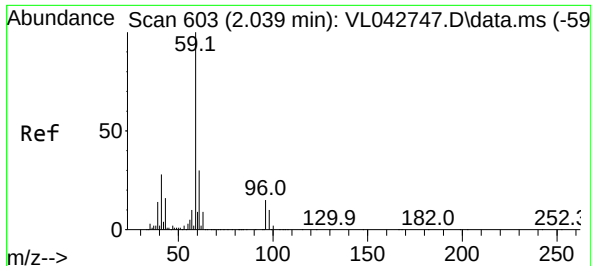
Tgt Ion: 43 Resp: 2557
Ion Ratio Lower Upper
43 100
58 29.5 19.8 29.8



#16
1,3-Butadiene
Concen: 0.056 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 39 Resp: 502
Ion Ratio Lower Upper
39 100
54 142.8 54.5 81.7#

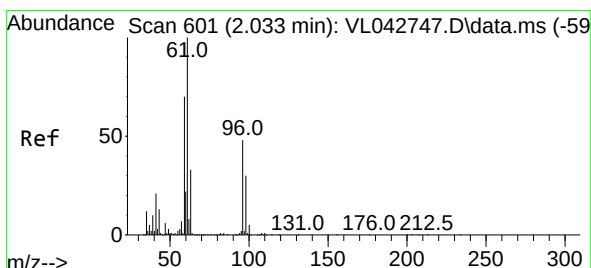
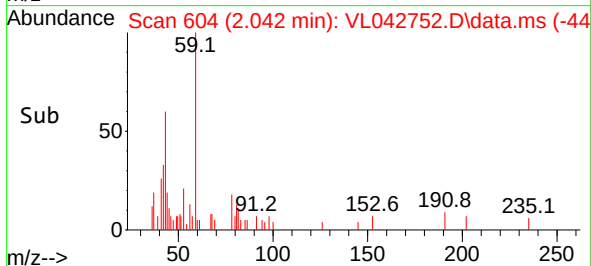
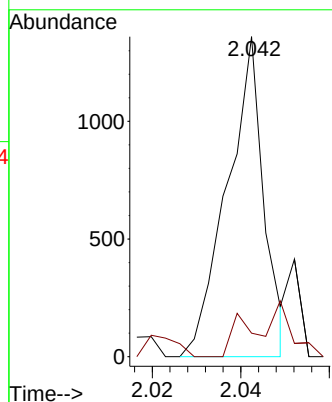
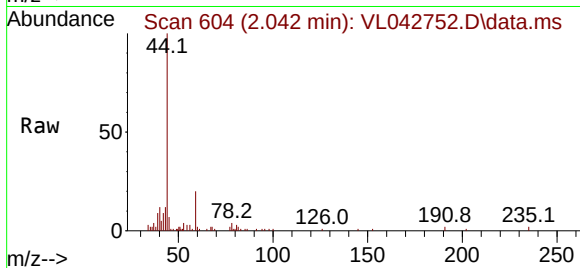




#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

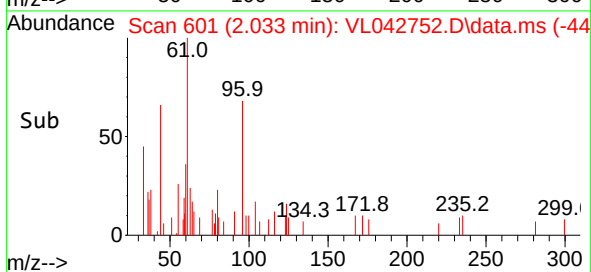
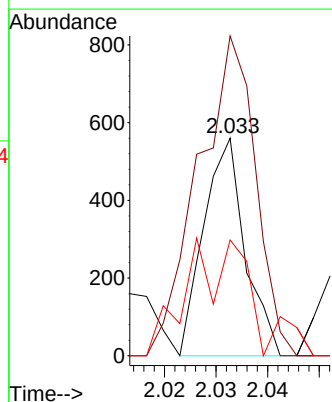
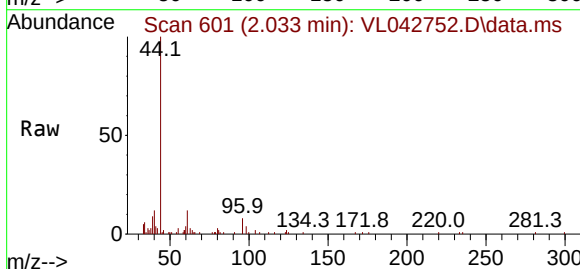
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

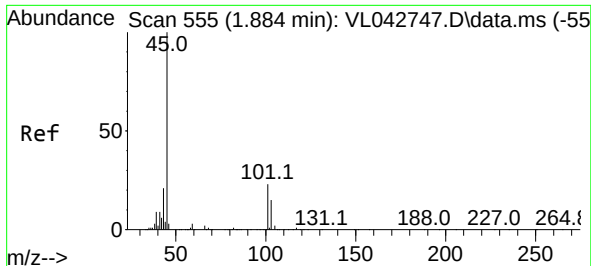
Tgt Ion: 59 Resp: 782
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#18
1,1-Dichloroethene
Concen: 0.044 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 96 Resp: 312
Ion Ratio Lower Upper
96 100
61 135.9 165.8 248.6#
98 38.4 49.9 74.9#

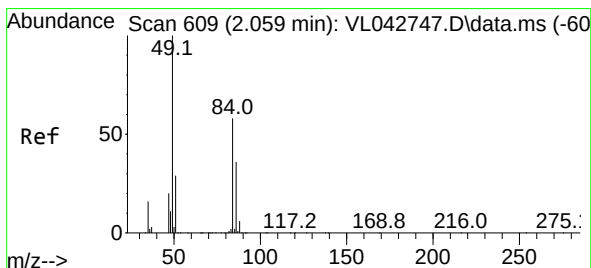
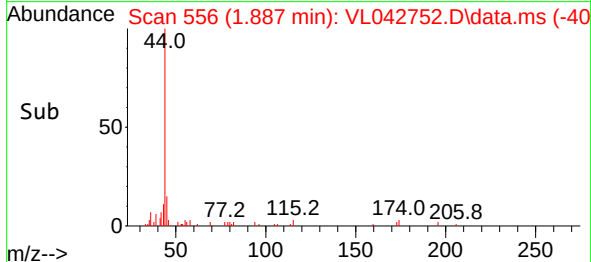
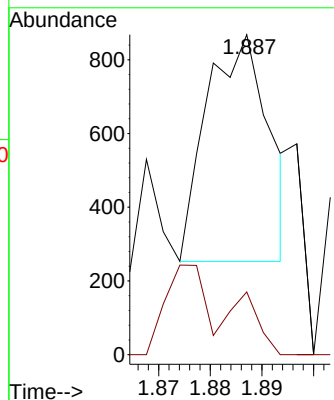
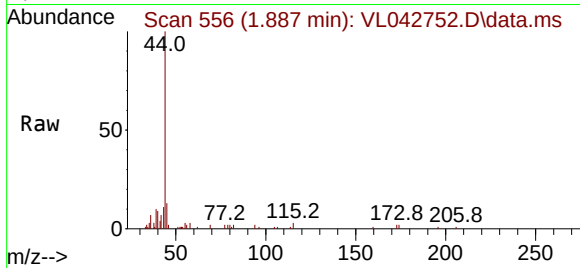




#19
Isopropyl Alcohol
Concen: 0.046 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

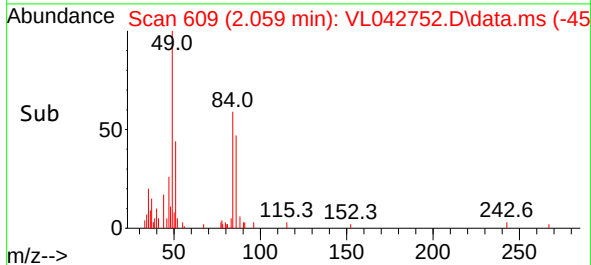
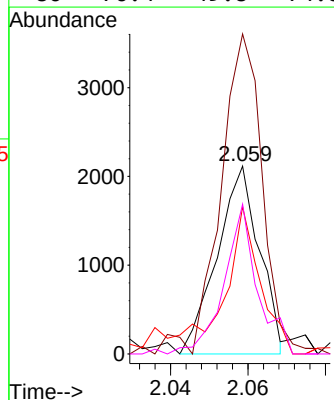
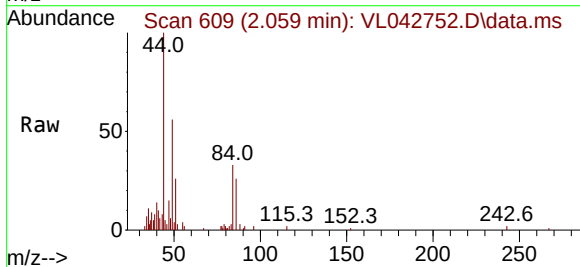
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

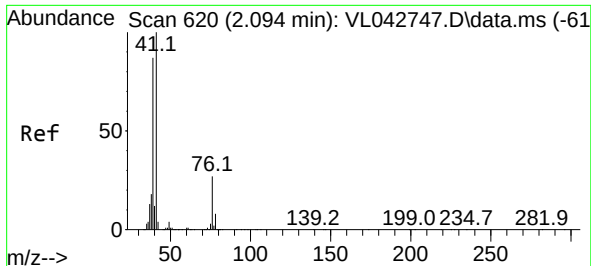
Tgt Ion: 45 Resp: 511
Ion Ratio Lower Upper
45 100
58 38.9 30.0 45.0



#20
Methylene Chloride
Concen: 0.243 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 84 Resp: 1607
Ion Ratio Lower Upper
84 100
49 161.5 138.6 208.0
51 68.3 40.6 61.0#
86 76.4 49.8 74.8#

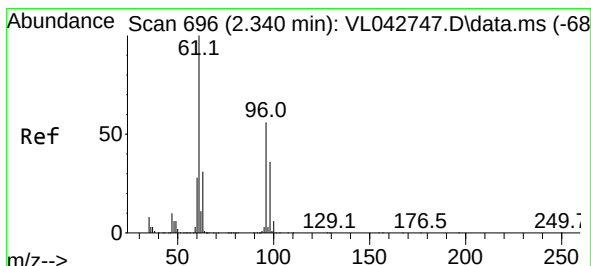
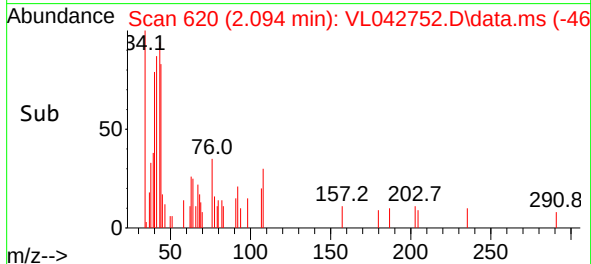
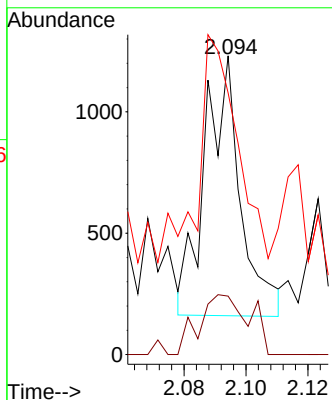
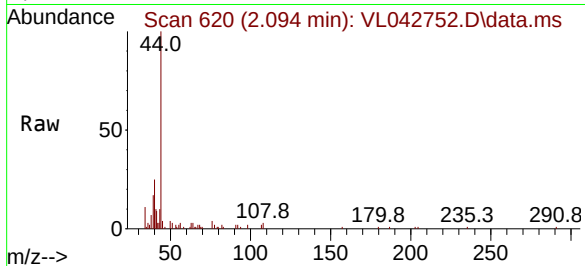




#21
 Allyl Chloride
 Concen: 0.066 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

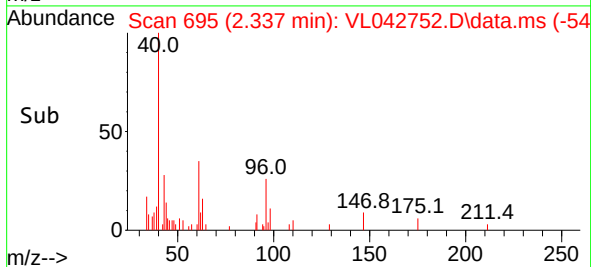
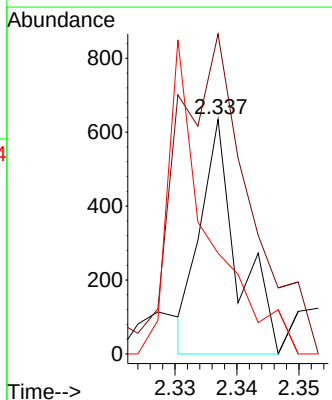
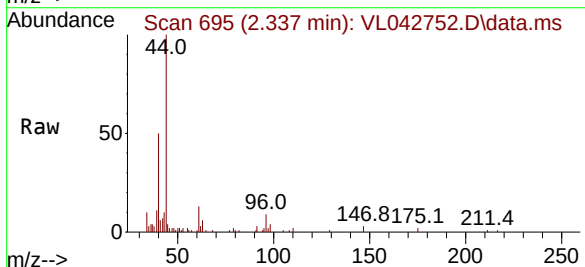
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

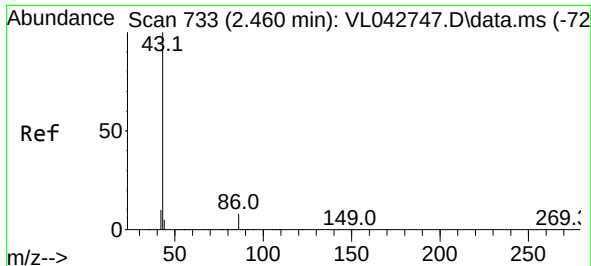
Tgt Ion: 41 Resp: 856
 Ion Ratio Lower Upper
 41 100
 76 35.0 21.1 31.7#
 39 167.2 68.3 102.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.034 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 96 Resp: 263
 Ion Ratio Lower Upper
 96 100
 61 108.2 142.3 213.5#
 98 24.1 50.6 76.0#

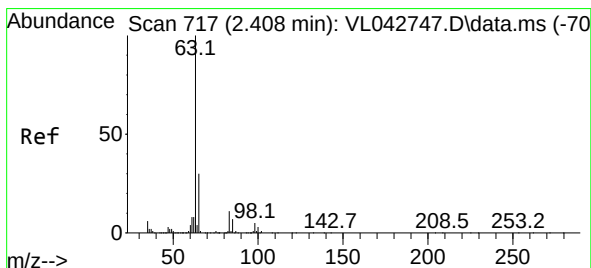
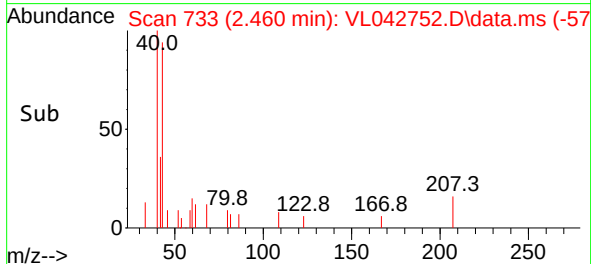
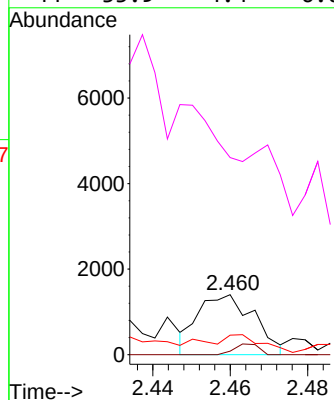
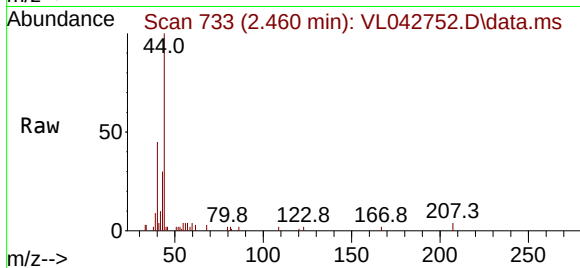




#23
 Vinyl Acetate
 Concen: 0.055 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

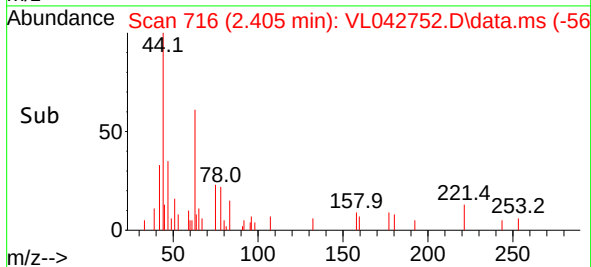
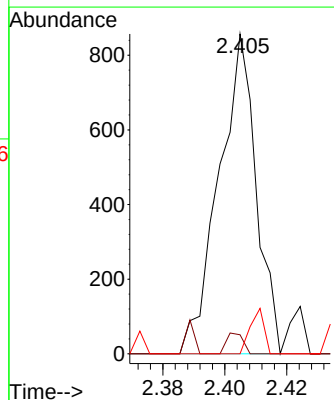
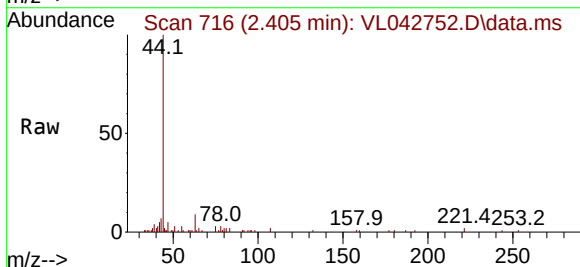
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

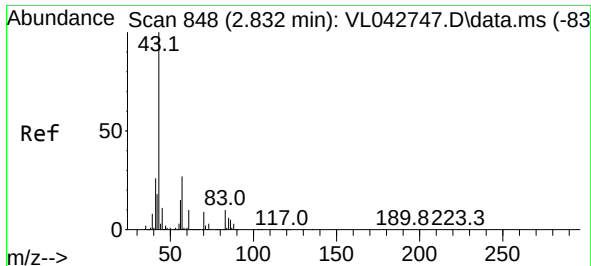
Tgt Ion:	43	Resp:	1410
Ion	Ratio	Lower	Upper
43	100		
86	7.1	6.1	9.1
42	24.7	7.8	11.8#
44	33.9	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 0.046 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion:	63	Resp:	715
Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.5	7.4
100	0.0	1.6	4.8#





#25

Ethyl Acetate

Concen: 0.023 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 1085

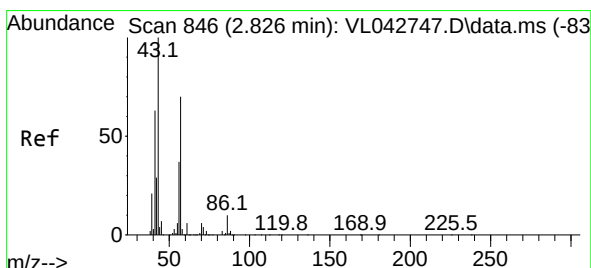
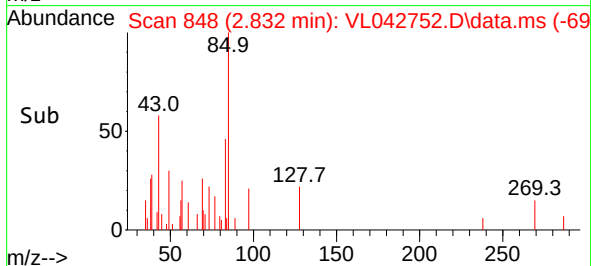
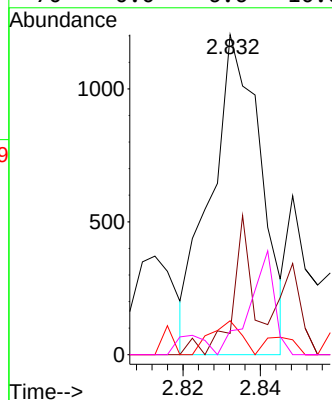
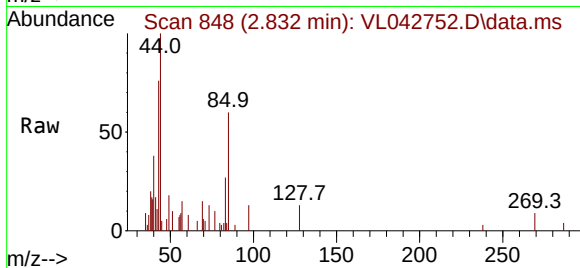
Ion Ratio Lower Upper

43 100

45 29.7 7.8 11.6#

61 0.0 6.7 10.1#

70 0.0 6.6 10.0#



#26

Hexane

Concen: 0.035 ppbv

RT: 2.819 min Scan# 844

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion: 57 Resp: 704

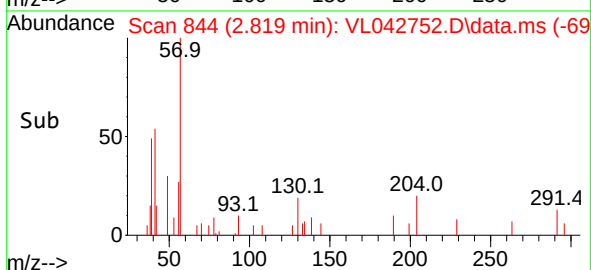
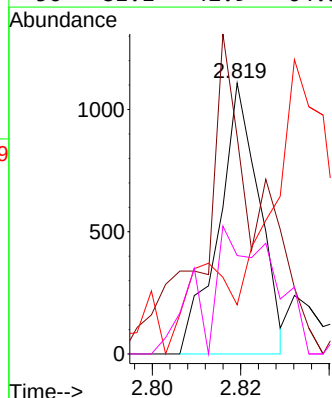
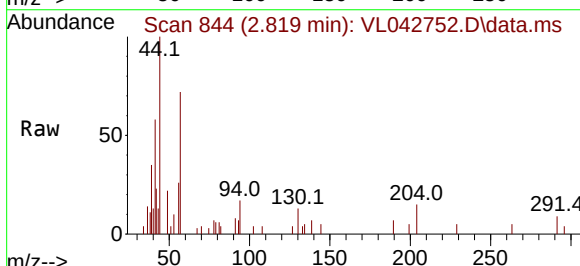
Ion Ratio Lower Upper

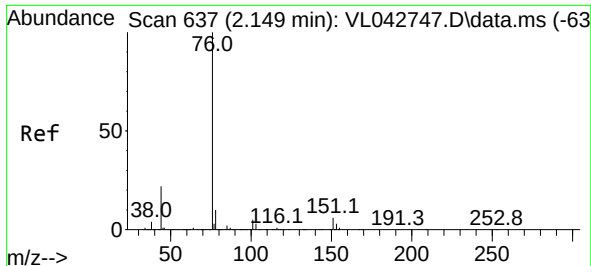
57 100

41 174.3 75.4 113.2#

43 0.0 185.0 277.6#

56 81.1 42.9 64.3#





#27

Carbon Disulfide

Concen: 0.035 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

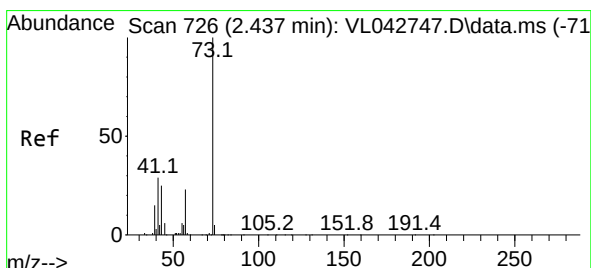
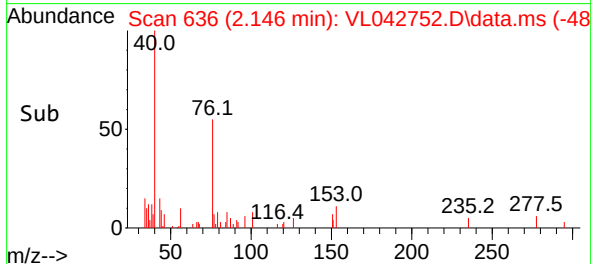
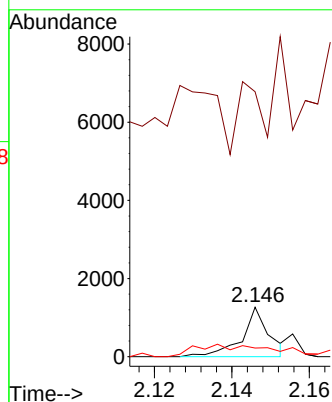
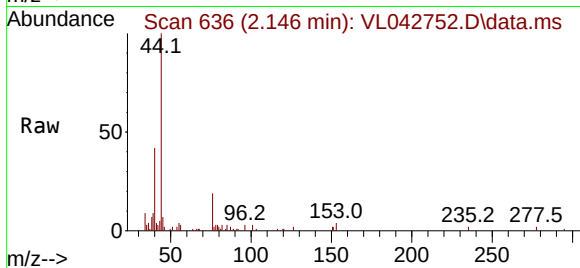
Tgt Ion: 76 Resp: 605

Ion Ratio Lower Upper

76 100

44 958.2 19.3 28.9#

78 90.7 9.9 14.9#



#28

Methyl tert-Butyl Ether

Concen: 0.026 ppbv

RT: 2.437 min Scan# 726

Delta R.T. -0.000 min

Lab File: VL042752.D

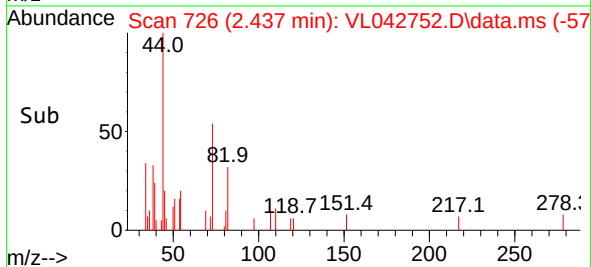
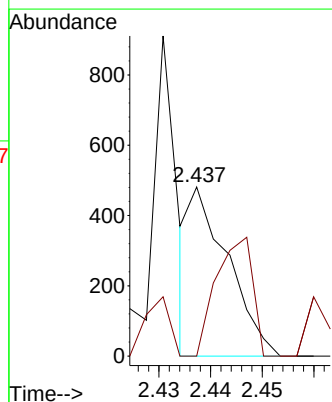
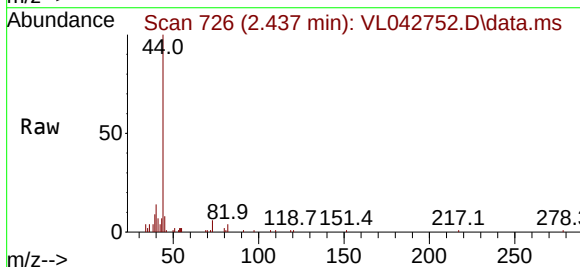
Acq: 23 Jul 2025 11:50

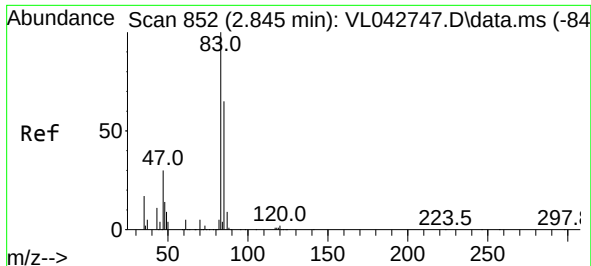
Tgt Ion: 73 Resp: 249

Ion Ratio Lower Upper

73 100

57 153.8 19.8 29.8#





#29

Chloroform

Concen: 0.042 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

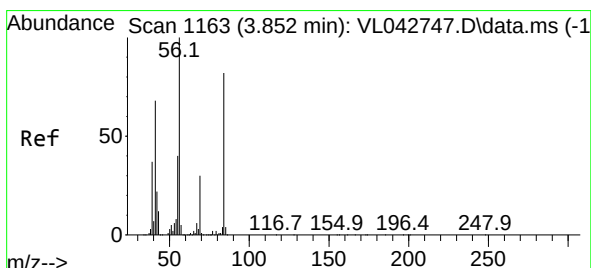
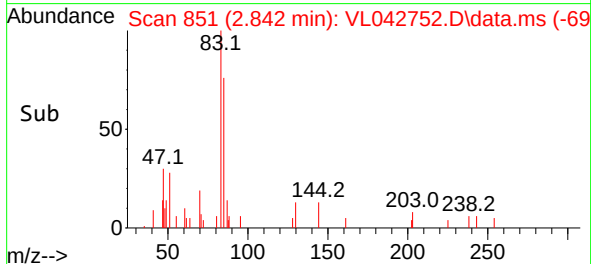
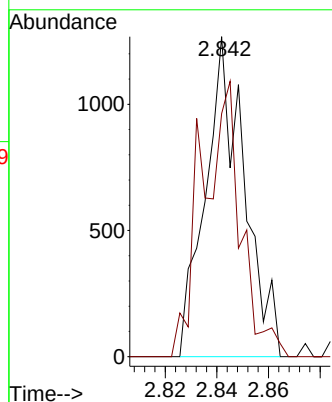
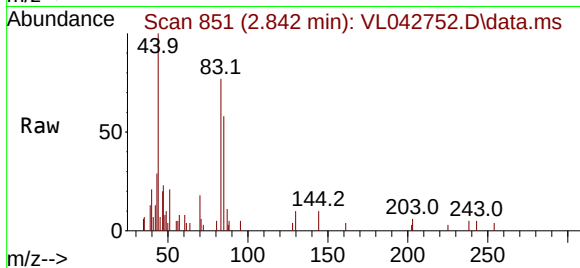
VSTDIC0.03

Tgt Ion: 83 Resp: 1324

Ion Ratio Lower Upper

83 100

85 71.8 52.2 78.2



#30

Cyclohexane

Concen: 0.007 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

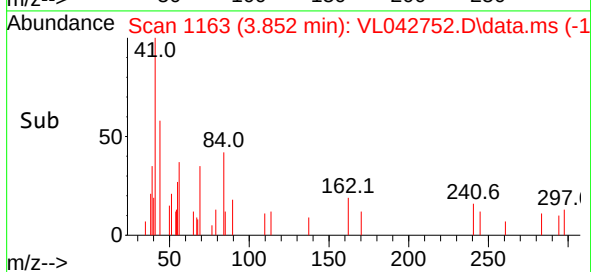
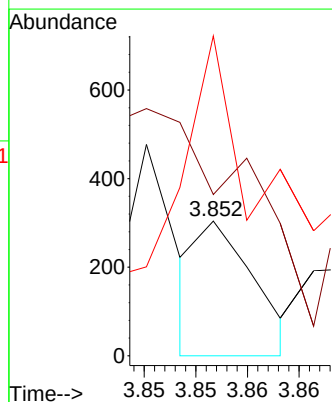
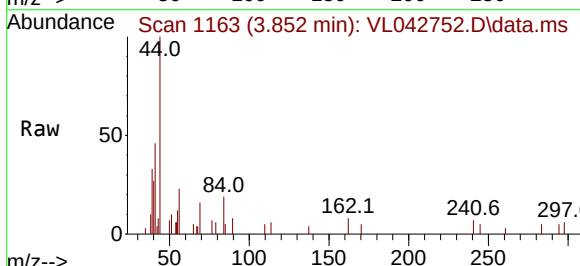
Tgt Ion: 84 Resp: 115

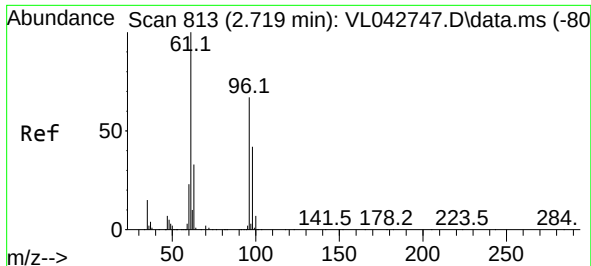
Ion Ratio Lower Upper

84 100

56 0.0 97.5 146.3#

41 1088.7 67.2 100.8#

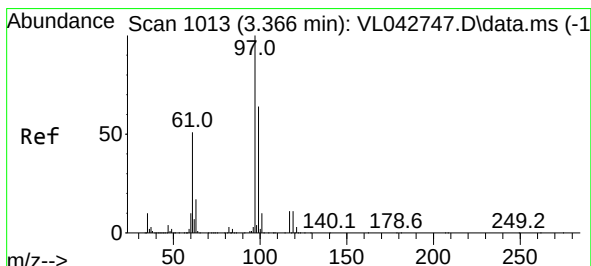
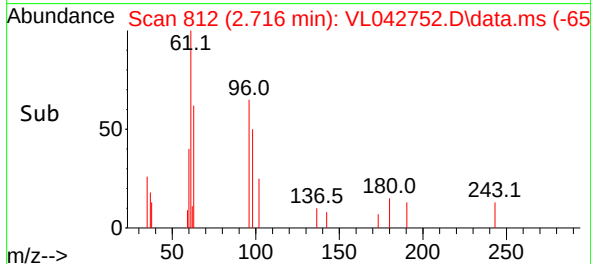
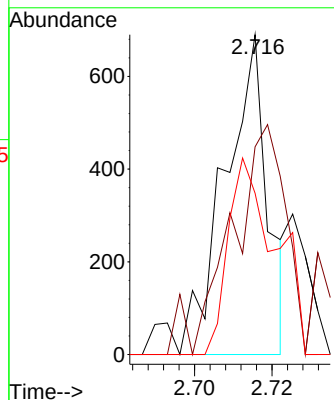
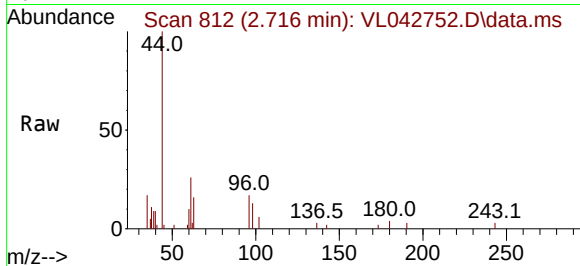




#31
 cis-1,2-Dichloroethene
 Concen: 0.025 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

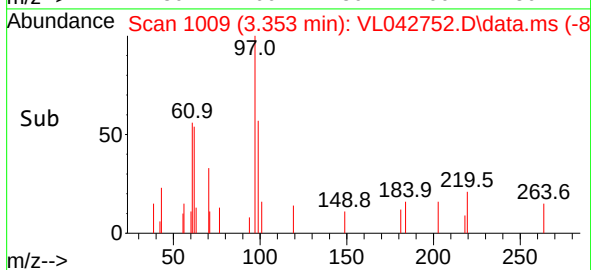
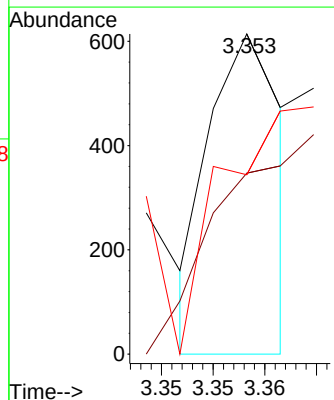
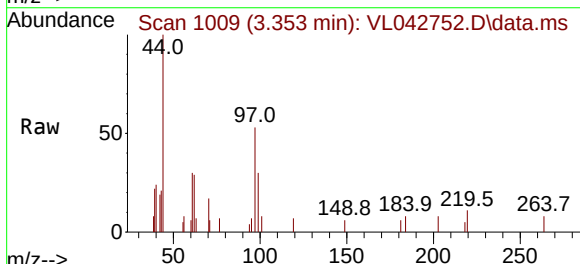
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

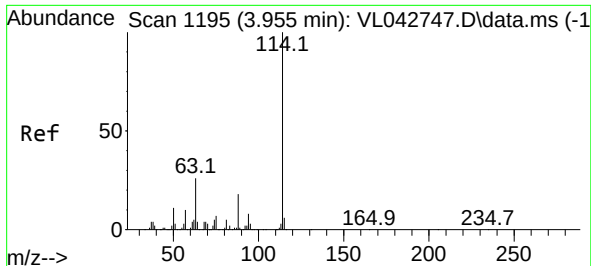
Tgt Ion: 61 Resp: 527
 Ion Ratio Lower Upper
 61 100
 96 46.1 53.5 80.3#
 98 50.4 33.6 50.4#



#32
 1,1,1-Trichloroethane
 Concen: 0.009 ppbv
 RT: 3.353 min Scan# 1009
 Delta R.T. -0.013 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 97 Resp: 302
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6#
 61 186.1 40.9 61.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

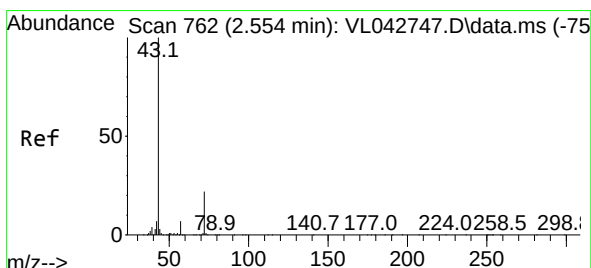
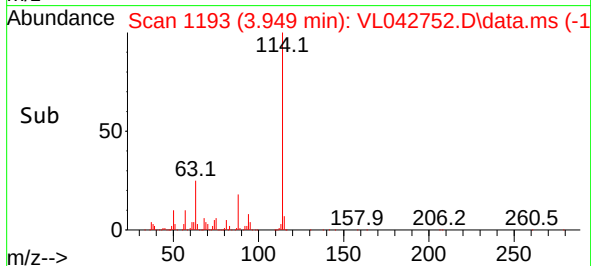
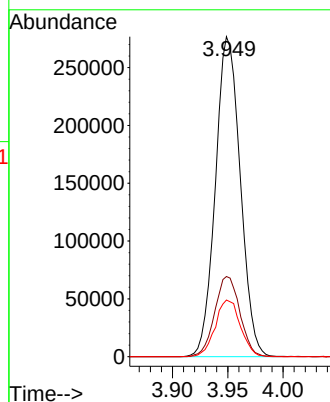
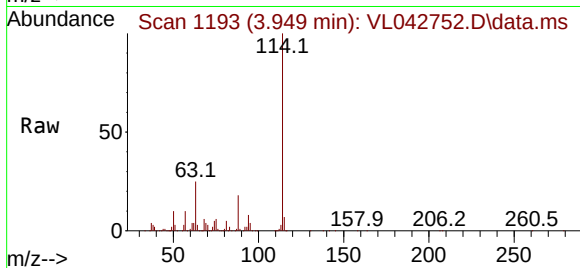
Tgt Ion:114 Resp: 432802

Ion Ratio Lower Upper

114 100

63 25.4 20.5 30.7

88 17.9 14.0 21.0



#34

2-Butanone

Concen: 0.046 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042752.D

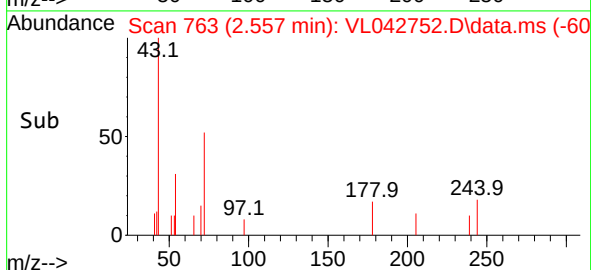
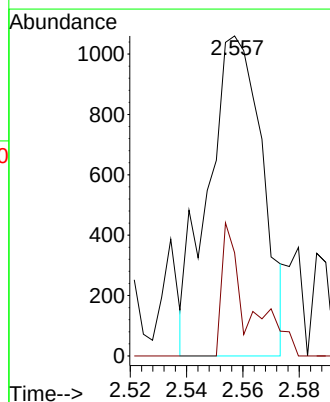
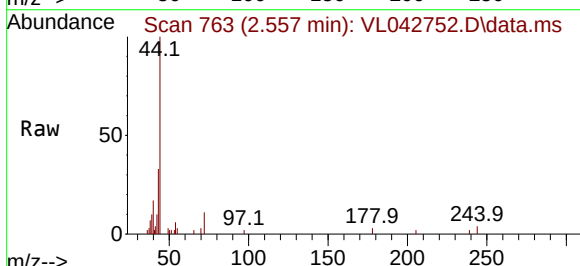
Acq: 23 Jul 2025 11:50

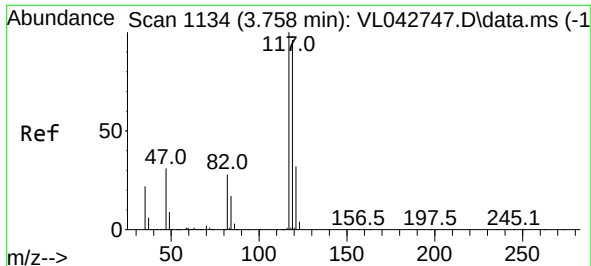
Tgt Ion: 43 Resp: 1423

Ion Ratio Lower Upper

43 100

72 19.7 17.4 26.0

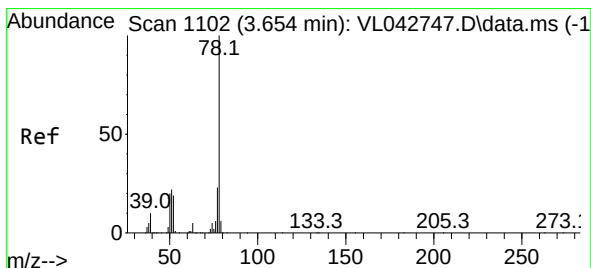
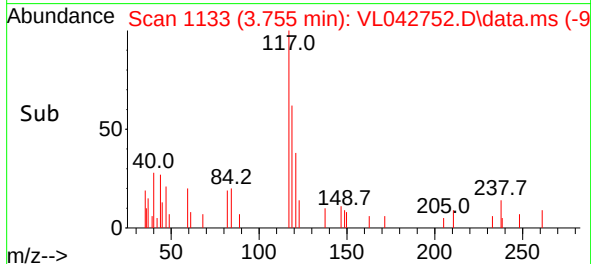
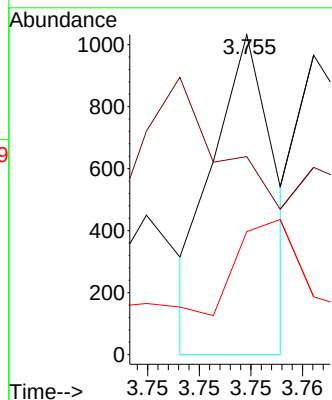
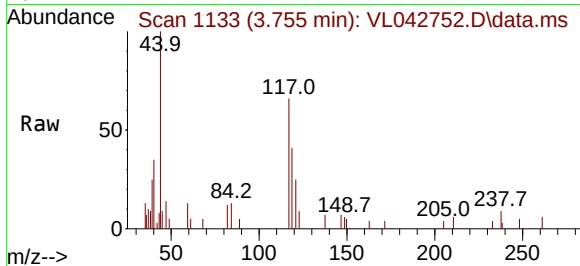




#35
Carbon Tetrachloride
Concen: 0.013 ppbv
RT: 3.755 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

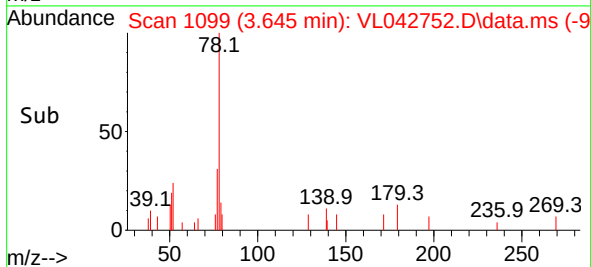
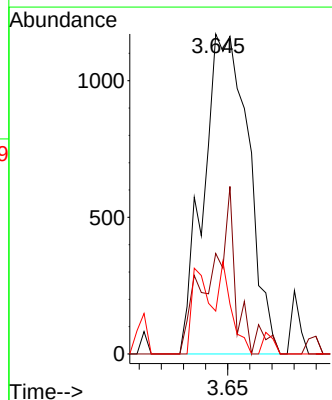
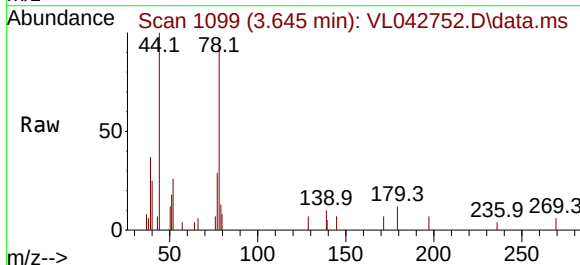
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

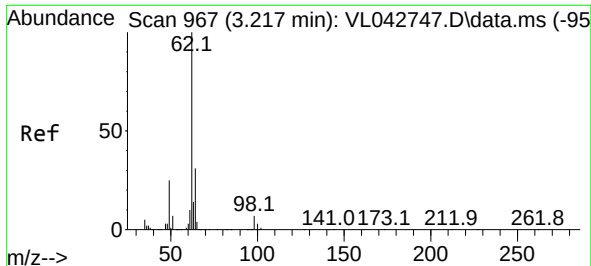
Tgt Ion:117 Resp: 427
Ion Ratio Lower Upper
117 100
119 23.7 77.1 115.7#
121 33.9 25.5 38.3



#36
Benzene
Concen: 0.040 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 78 Resp: 1657
Ion Ratio Lower Upper
78 100
77 31.4 18.5 27.7#
50 13.4 16.2 24.2#

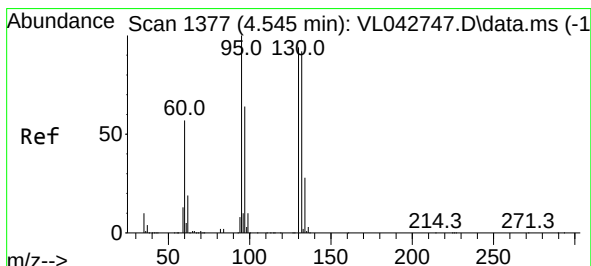
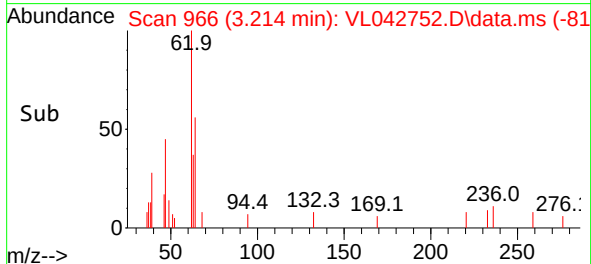
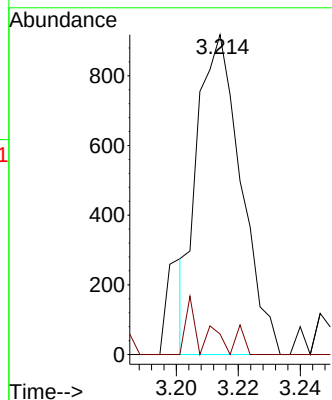
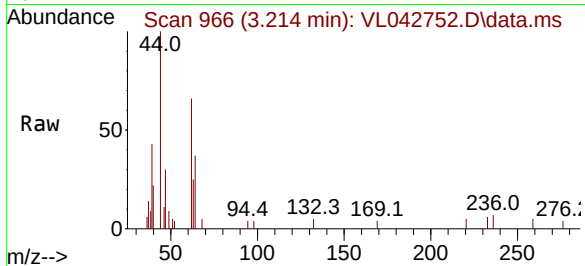




#37
1,2-Dichloroethane
Concen: 0.037 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

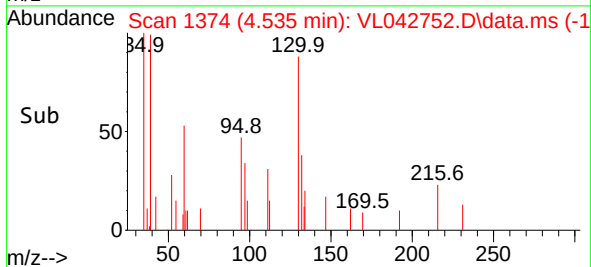
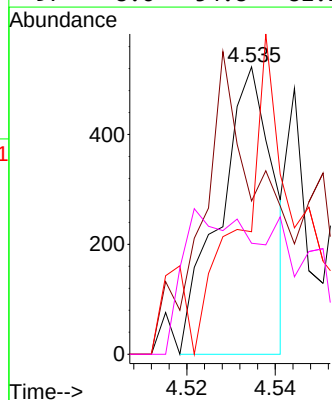
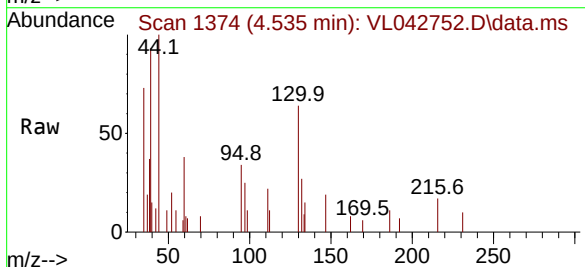
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

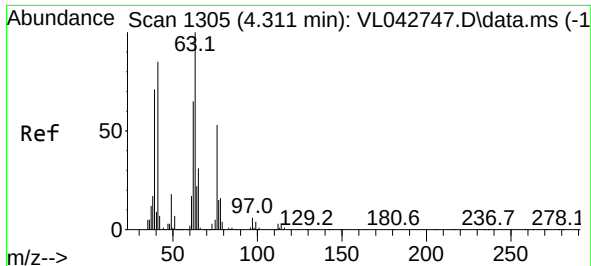
Tgt Ion: 62 Resp: 902
Ion Ratio Lower Upper
62 100
98 0.0 5.2 7.8#



#38
Trichloroethene
Concen: 0.022 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:130 Resp: 438
Ion Ratio Lower Upper
130 100
95 38.0 85.4 128.2#
132 11.9 78.2 117.2#
97 8.6 54.8 82.2#





#39

1,2-Dichloropropane

Concen: 7.257 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.363 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

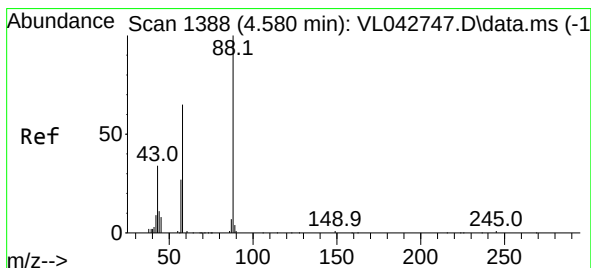
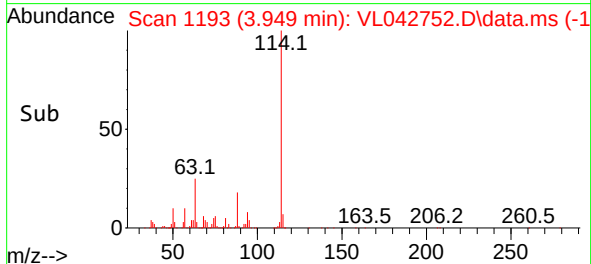
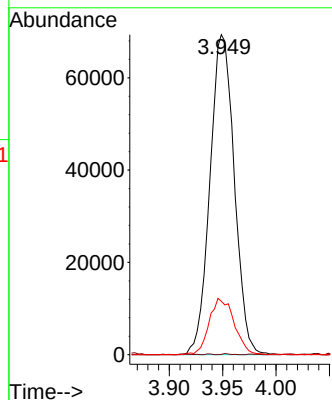
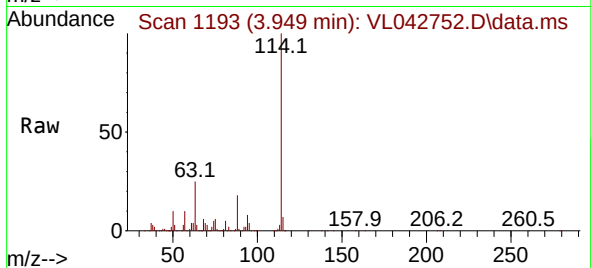
Tgt Ion: 63 Resp: 109883

Ion Ratio Lower Upper

63 100

41 0.0 68.2 102.4#

62 16.7 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.004 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.039 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion: 88 Resp: 32

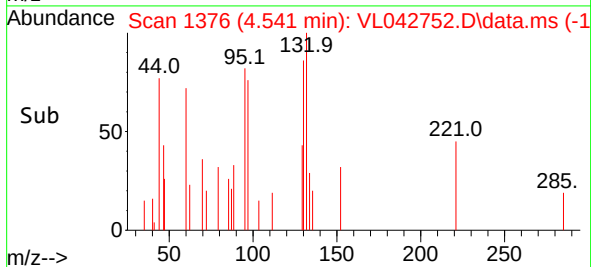
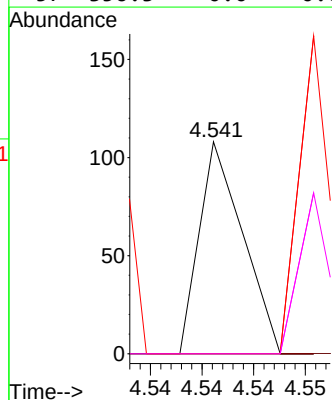
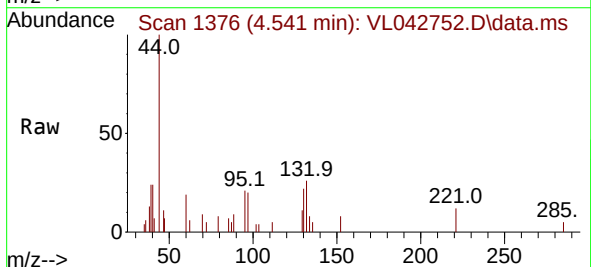
Ion Ratio Lower Upper

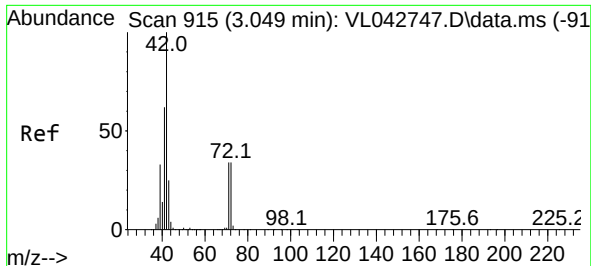
88 100

58 0.0 58.8 88.2#

43 456.3 28.9 43.3#

57 356.3 0.0 0.0#

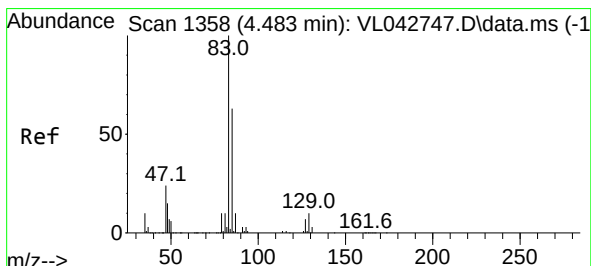
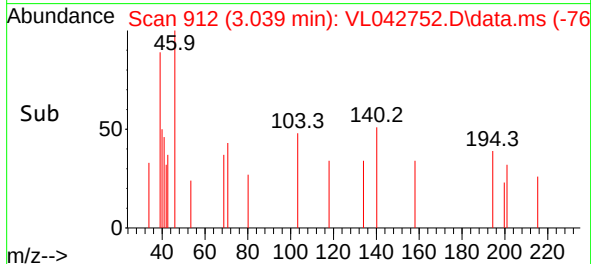
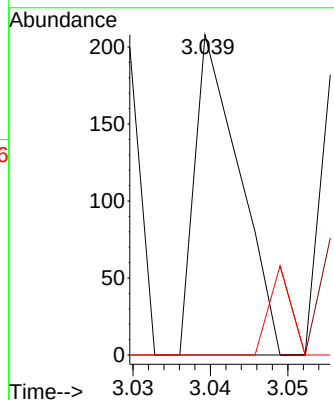
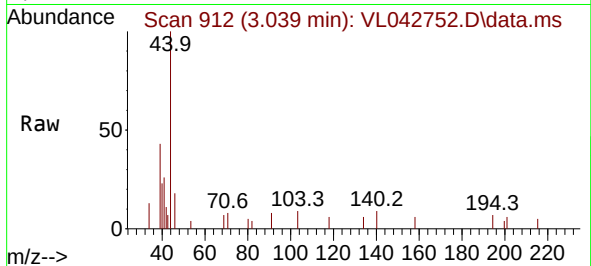




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.039 min Scan# 915
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

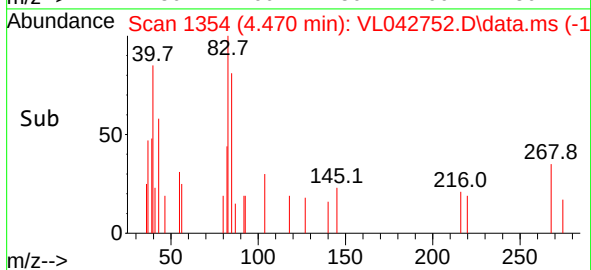
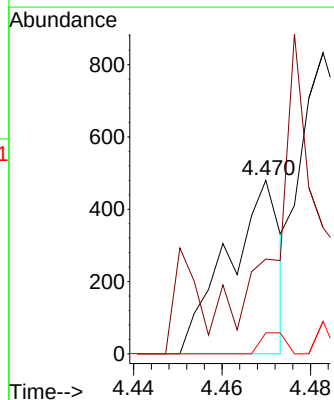
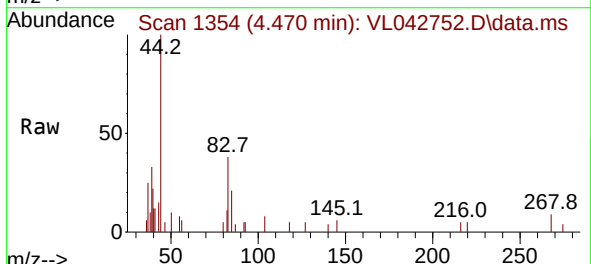
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

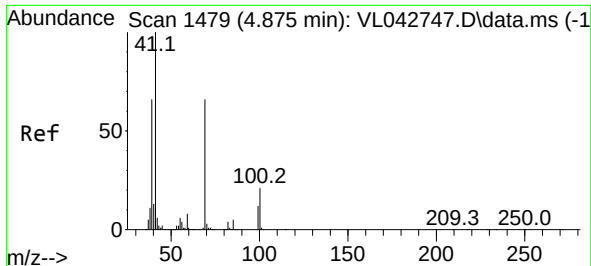
Tgt Ion: 42 Resp: 84
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.012 ppbv
RT: 4.470 min Scan# 1354
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 83 Resp: 390
Ion Ratio Lower Upper
83 100
85 0.8 50.2 75.4#
127 12.1 5.4 8.2#

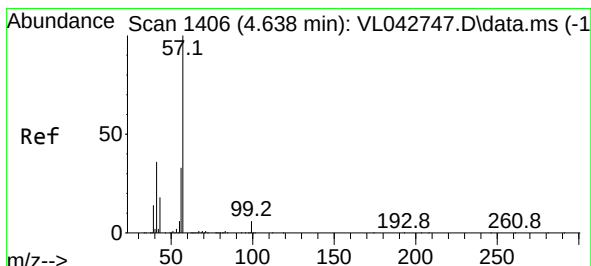
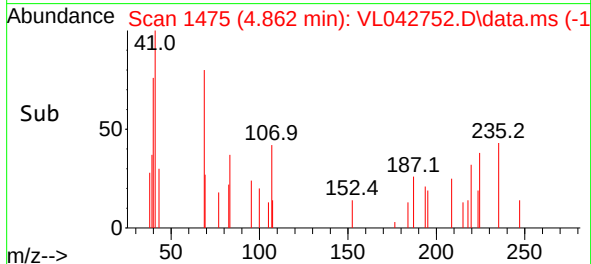
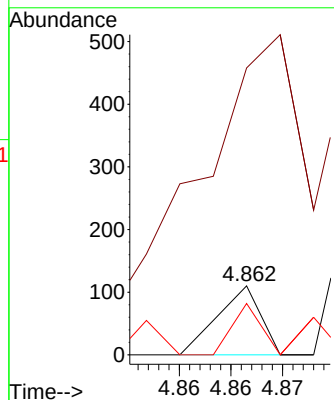
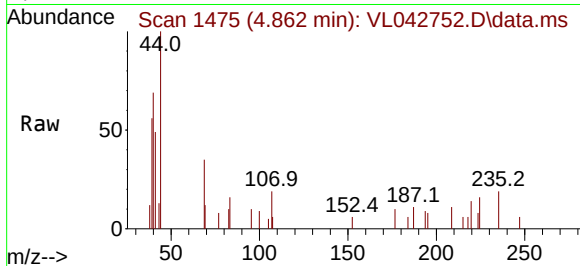




#43
Methyl Methacrylate
Concen: 0.002 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

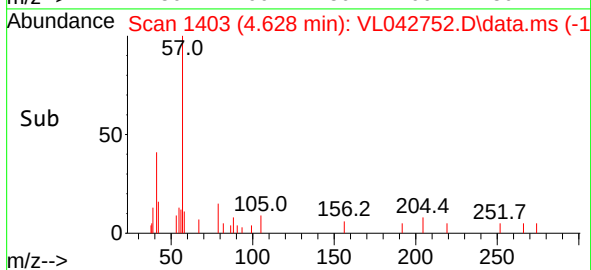
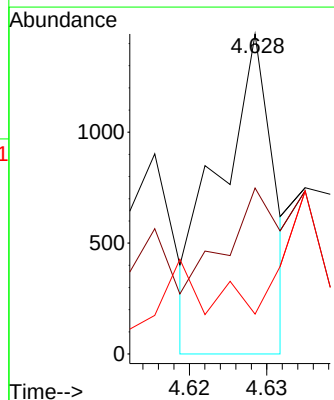
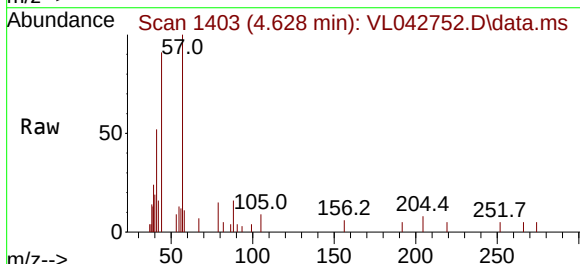
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

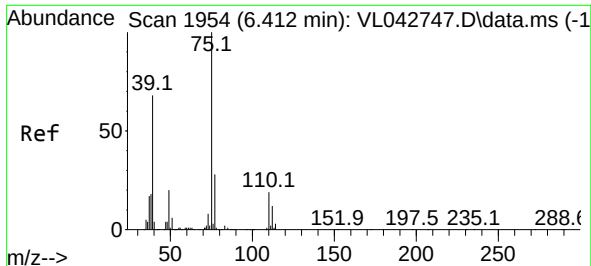
Tgt Ion: 69 Resp: 32
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.011 ppbv
RT: 4.628 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 57 Resp: 714
Ion Ratio Lower Upper
57 100
41 271.0 28.3 42.5#
56 132.9 25.8 38.6#





#45

t-1,3-Dichloropropene

Concen: 0.015 ppbv

RT: 6.392 min Scan# 1954

Delta R.T. -0.020 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

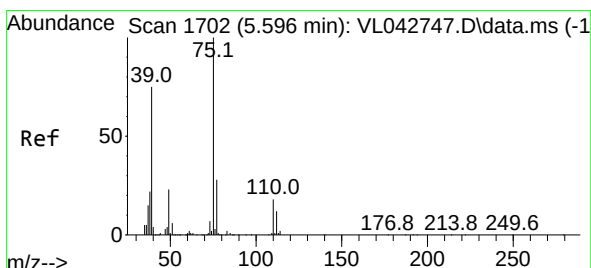
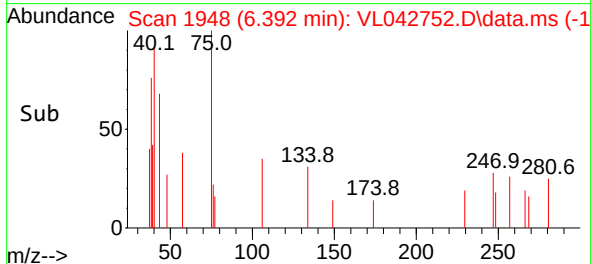
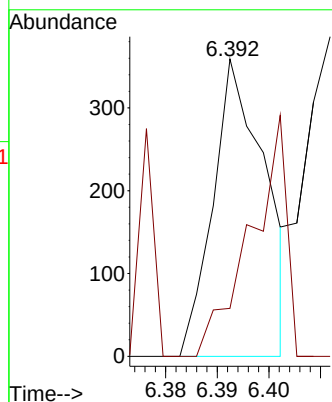
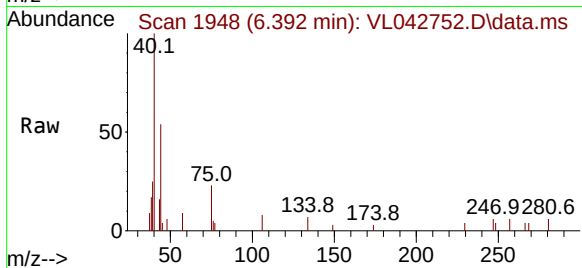
VSTDIC0.03

Tgt Ion: 75 Resp: 252

Ion Ratio Lower Upper

75 100

77 16.2 22.4 33.6#



#46

cis-1,3-Dichloropropene

Concen: 0.012 ppbv

RT: 5.590 min Scan# 1700

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

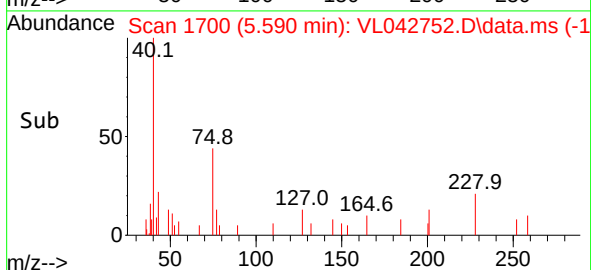
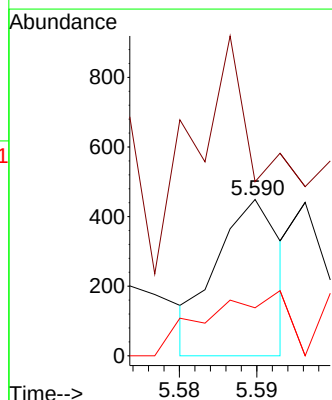
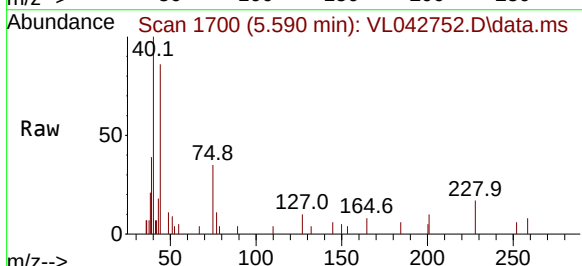
Tgt Ion: 75 Resp: 259

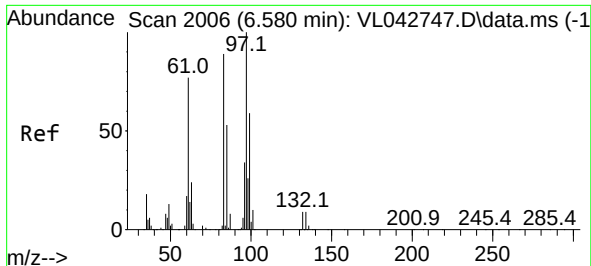
Ion Ratio Lower Upper

75 100

39 0.0 60.2 90.2#

77 9.9 22.6 34.0#





#47

1,1,2-Trichloroethane

Concen: 0.014 ppbv

RT: 6.570 min Scan# 20

Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 97 Resp: 226

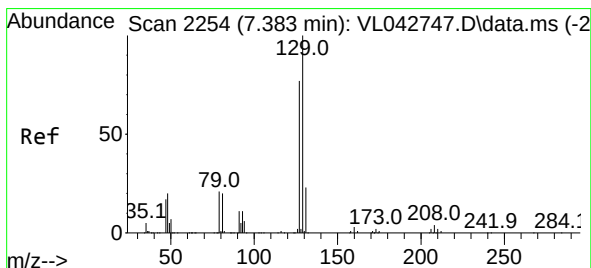
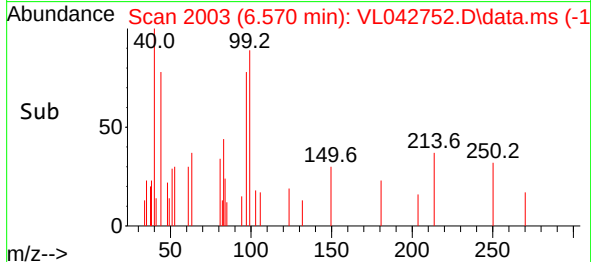
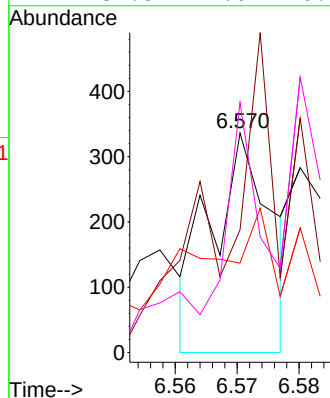
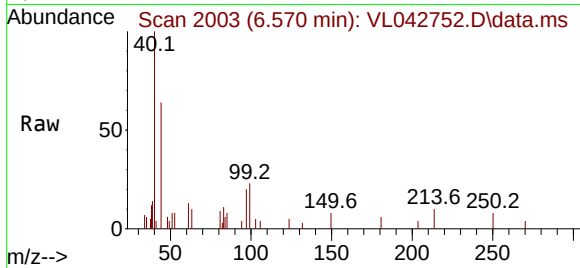
Ion Ratio Lower Upper

97 100

83 33.2 71.1 106.7#

85 23.2 43.0 64.4#

99 131.8 47.0 70.6#



#48

Dibromochloromethane

Concen: 0.008 ppbv

RT: 7.370 min Scan# 2250

Delta R.T. -0.013 min

Lab File: VL042752.D

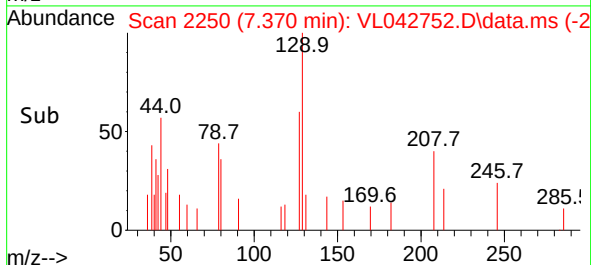
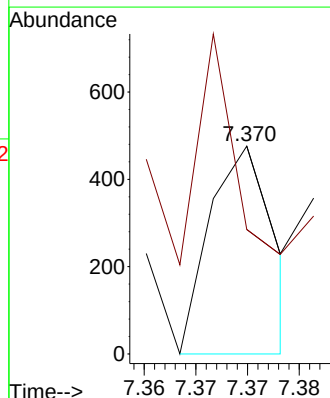
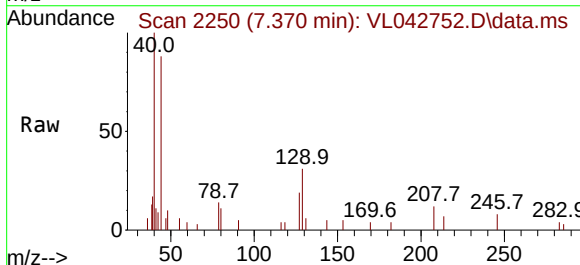
Acq: 23 Jul 2025 11:50

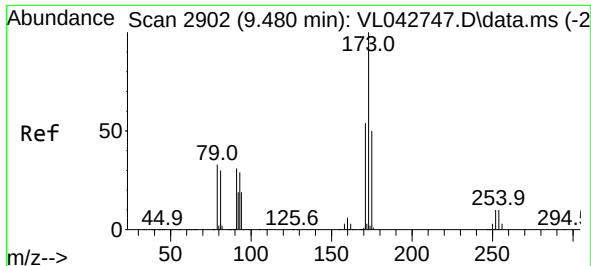
Tgt Ion: 129 Resp: 206

Ion Ratio Lower Upper

129 100

127 397.1 38.7 116.1#





#49

Bromoform

Concen: 0.015 ppbv

RT: 9.470 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

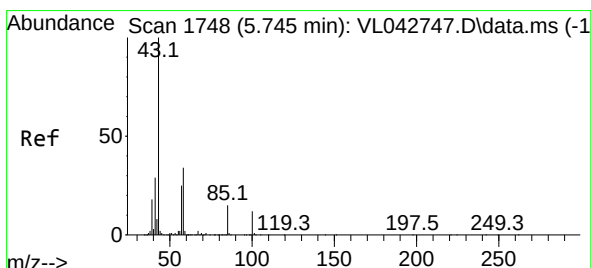
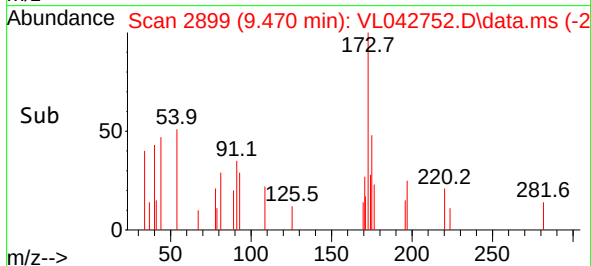
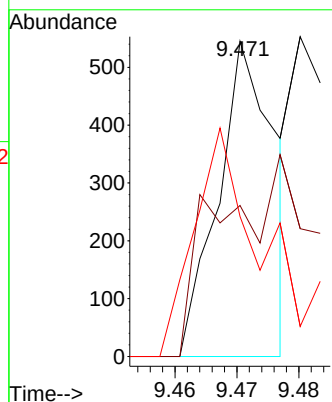
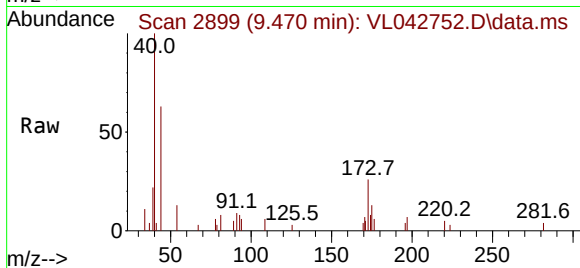
Tgt Ion:173 Resp: 346

Ion Ratio Lower Upper

173 100

175 0.0 38.4 57.6#

171 97.1 40.9 61.3#



#50

4-Methyl-2-Pentanone

Concen: 0.004 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. -0.003 min

Lab File: VL042752.D

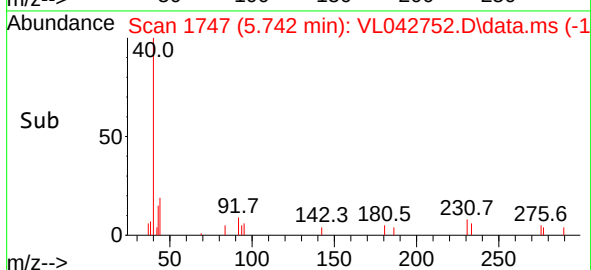
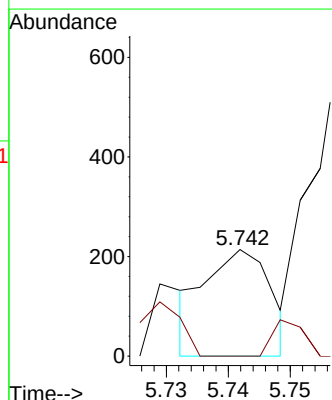
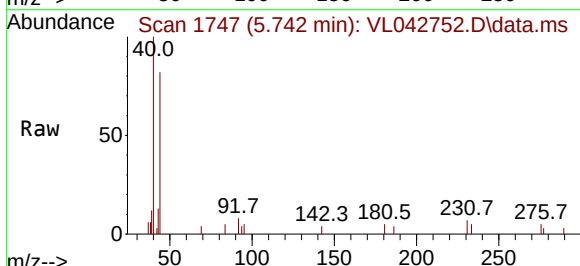
Acq: 23 Jul 2025 11:50

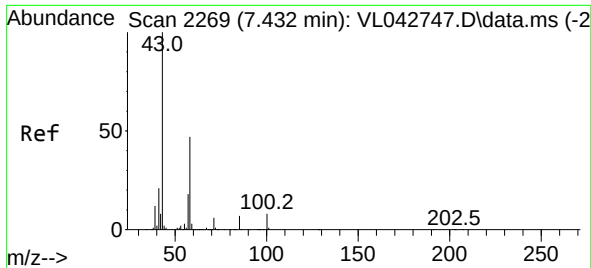
Tgt Ion: 43 Resp: 157

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#

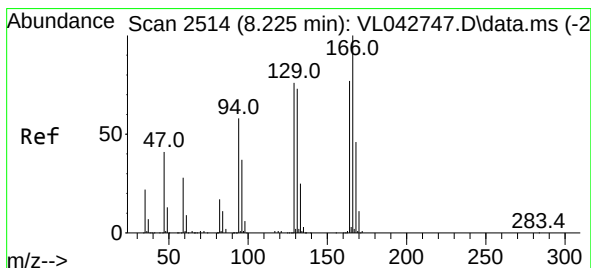
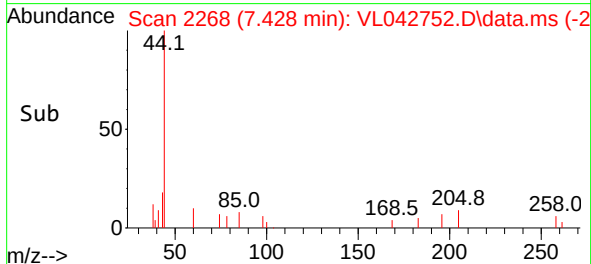
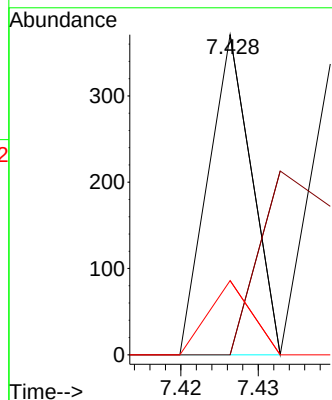
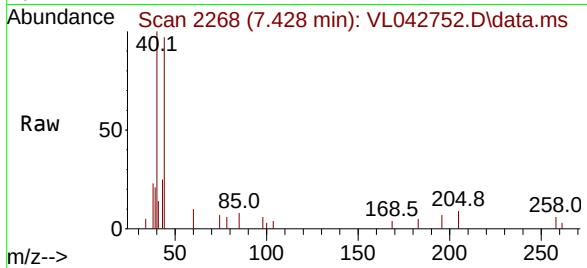




#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.428 min Scan# 2111
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

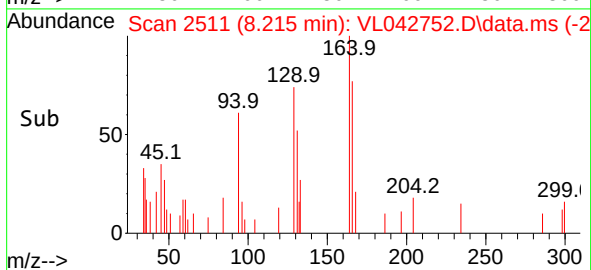
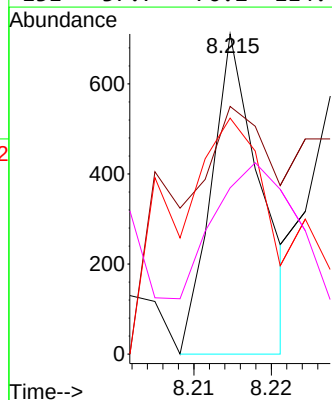
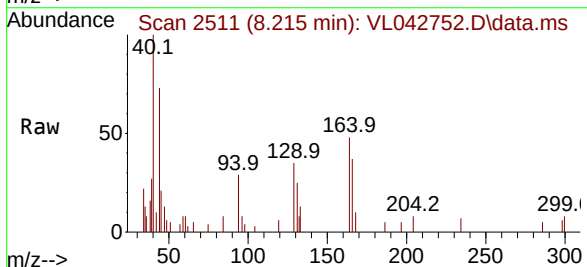
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

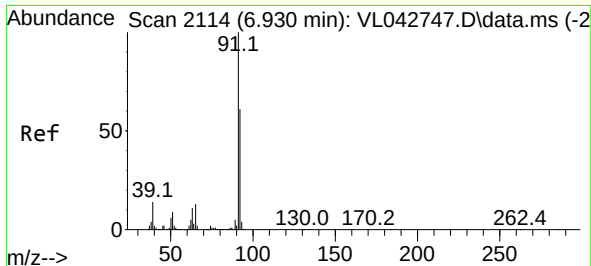
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.019 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 164 Resp: 317
Ion Ratio Lower Upper
164 100
166 34.6 104.0 156.0#
129 50.2 79.2 118.8#
131 37.7 76.2 114.4#

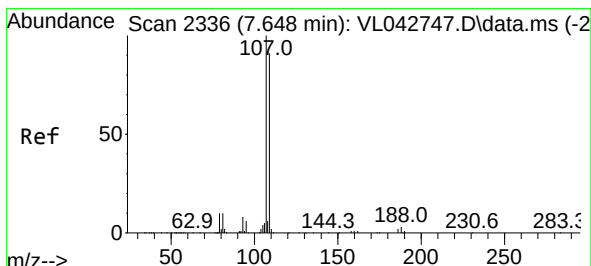
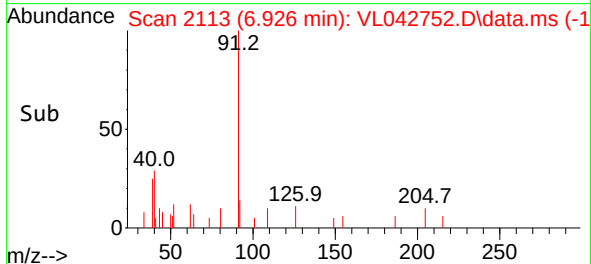
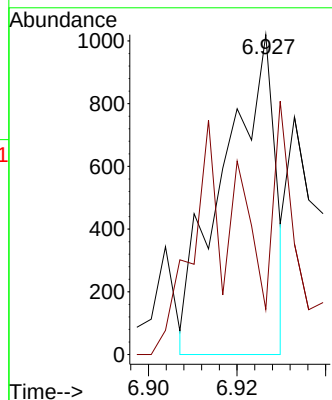
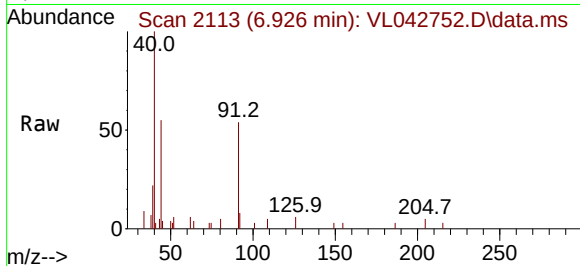




#53
Toluene
Concen: 0.019 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

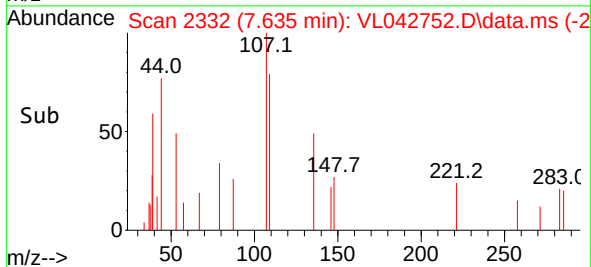
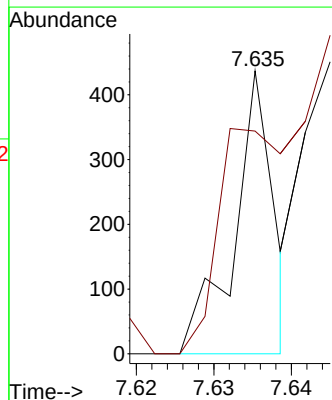
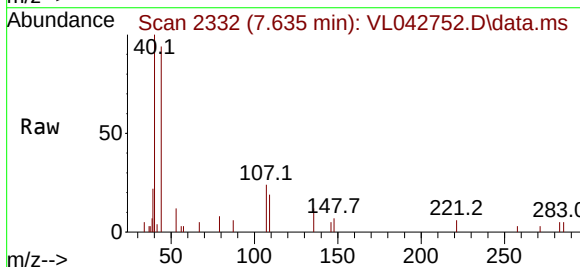
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

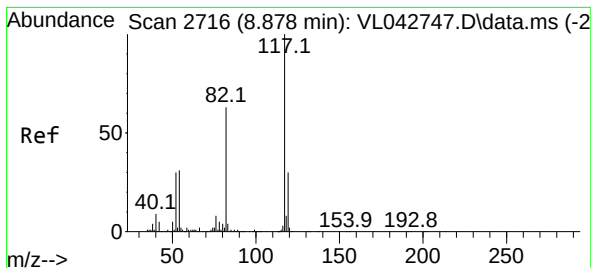
Tgt Ion: 91 Resp: 832
Ion Ratio Lower Upper
91 100
92 0.0 48.0 72.0#



#54
1,2-Dibromoethane
Concen: 0.007 ppbv
RT: 7.635 min Scan# 2332
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 107 Resp: 155
Ion Ratio Lower Upper
107 100
109 78.7 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

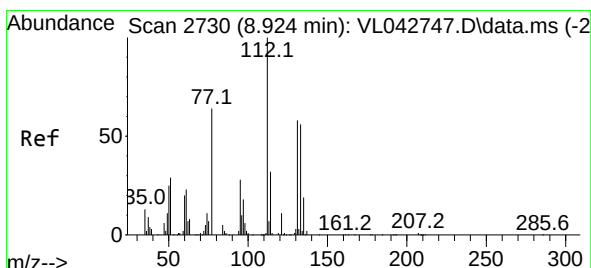
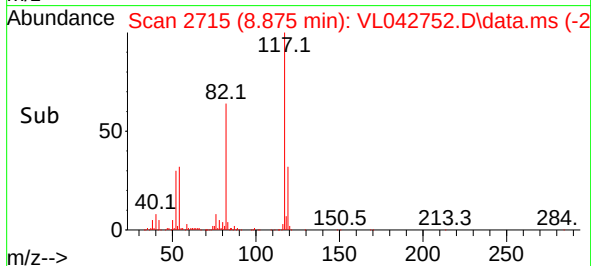
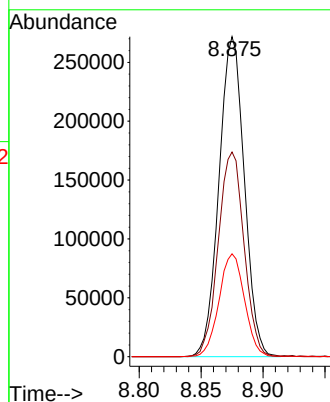
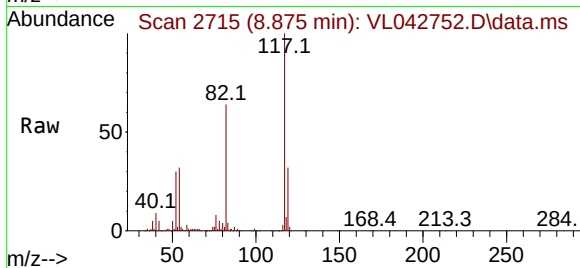
Tgt Ion:117 Resp: 387541

Ion Ratio Lower Upper

117 100

82 65.0 53.3 79.9

119 32.6 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.023 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

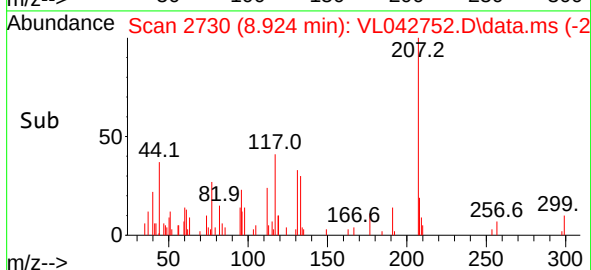
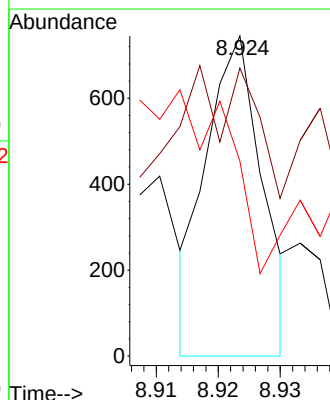
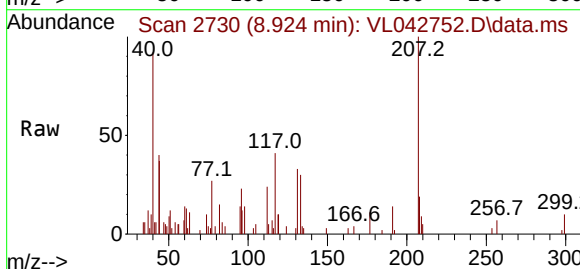
Tgt Ion:131 Resp: 471

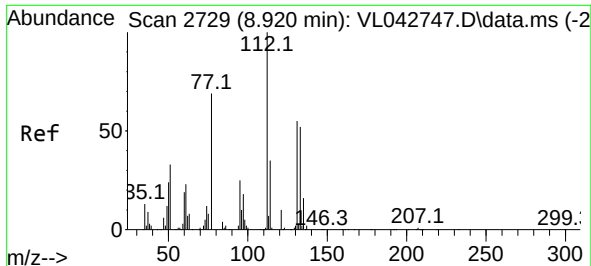
Ion Ratio Lower Upper

131 100

133 307.0 76.8 115.2#

119 0.0 49.7 74.5#





#57

Chlorobenzene

Concen: 0.023 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

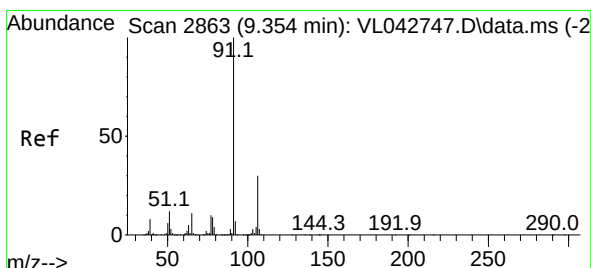
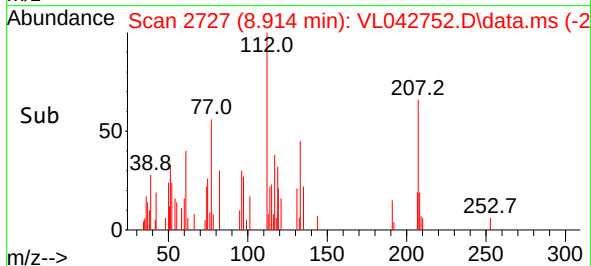
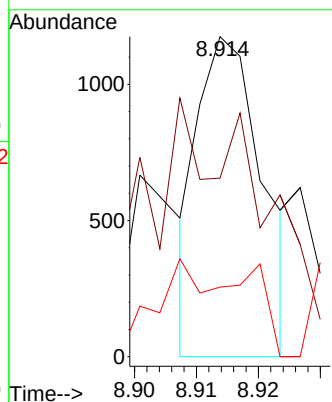
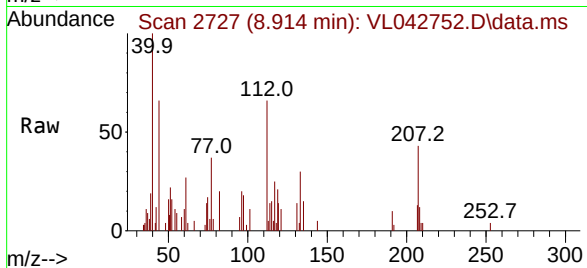
Tgt Ion:112 Resp: 852

Ion Ratio Lower Upper

112 100

77 9.3 56.4 84.6#

114 38.4 31.2 38.2#



#58

Ethyl Benzene

Concen: 0.014 ppbv

RT: 9.344 min Scan# 2860

Delta R.T. -0.010 min

Lab File: VL042752.D

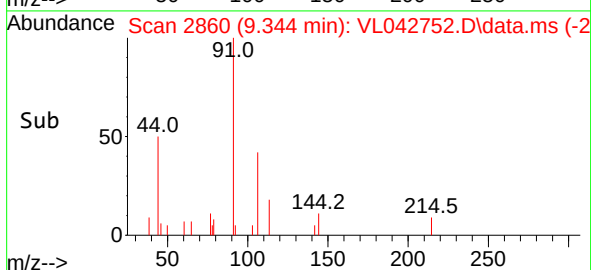
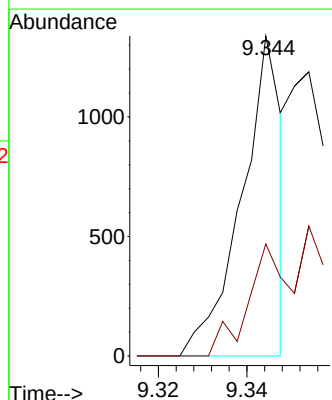
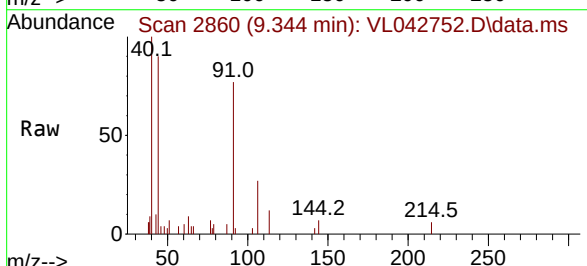
Acq: 23 Jul 2025 11:50

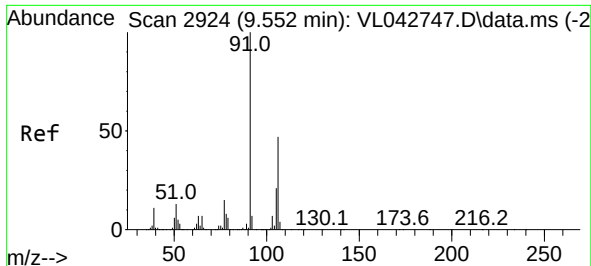
Tgt Ion: 91 Resp: 837

Ion Ratio Lower Upper

91 100

106 35.0 23.8 35.6





#59

m/p-Xylene

Concen: 0.022 ppbv

RT: 9.548 min Scan# 29

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

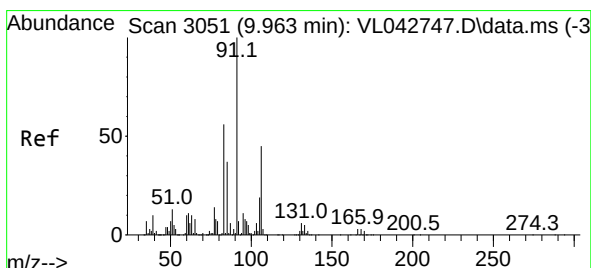
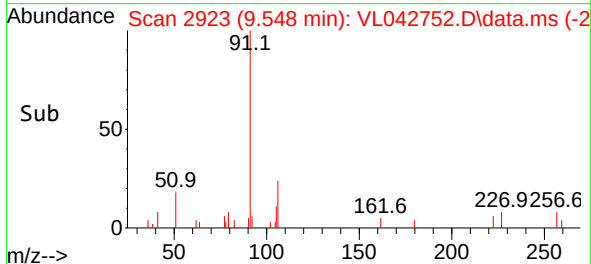
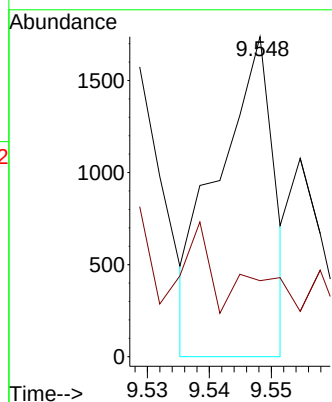
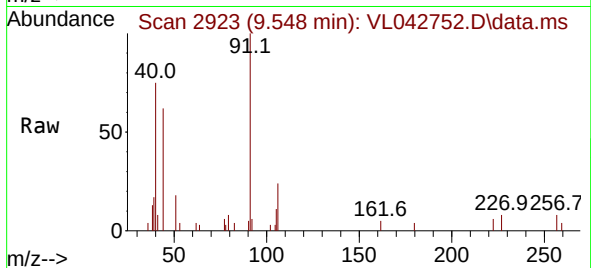
VSTDIC0.03

Tgt Ion: 91 Resp: 1097

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.029 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. -0.010 min

Lab File: VL042752.D

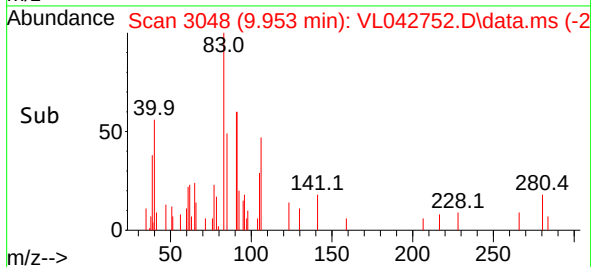
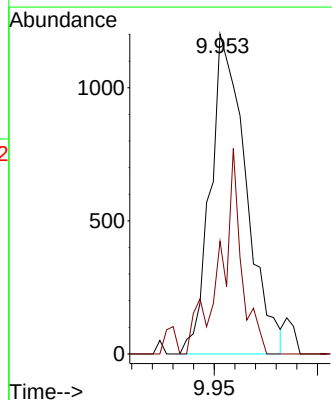
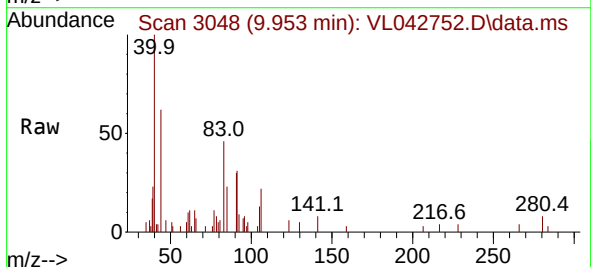
Acq: 23 Jul 2025 11:50

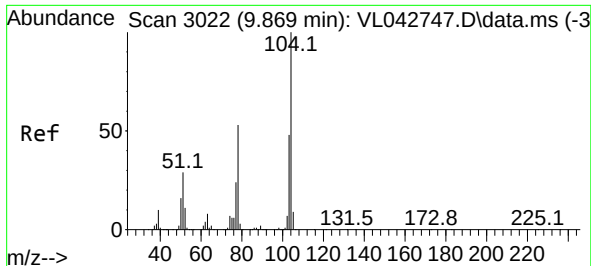
Tgt Ion: 91 Resp: 1440

Ion Ratio Lower Upper

91 100

106 41.0 22.0 66.0

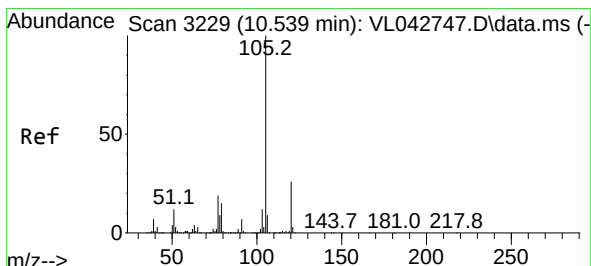
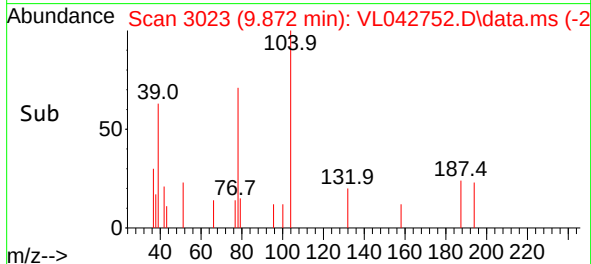
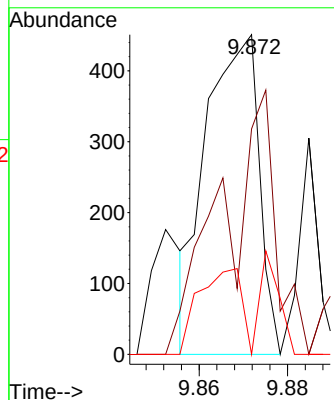
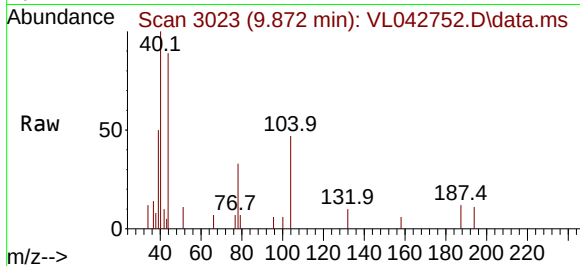




#61
 Styrene
 Concen: 0.018 ppbv
 RT: 9.872 min Scan# 3022
 Delta R.T. 0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

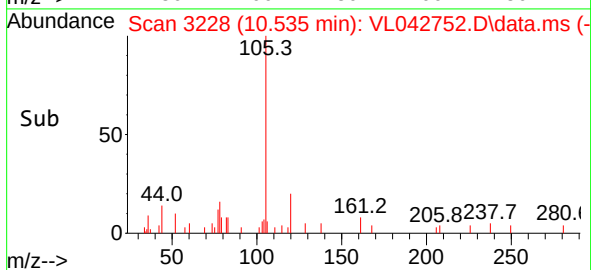
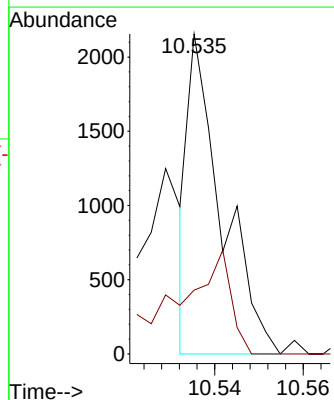
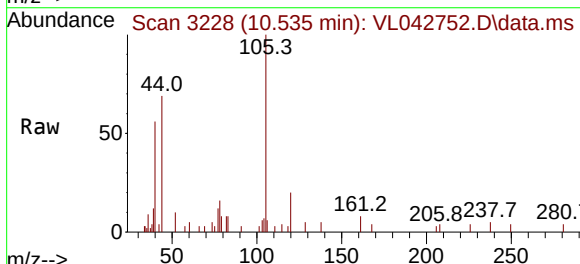
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

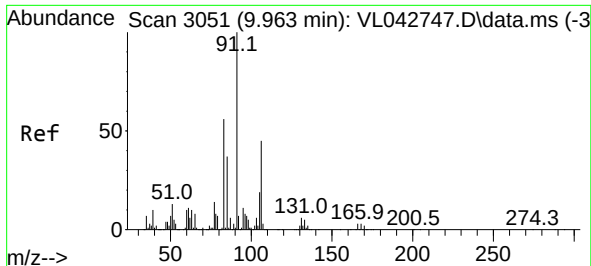
Tgt Ion:104 Resp: 373
 Ion Ratio Lower Upper
 104 100
 78 95.4 41.5 62.3#
 103 33.5 37.5 56.3#



#62
 Isopropylbenzene
 Concen: 0.016 ppbv
 RT: 10.535 min Scan# 3228
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1137
 Ion Ratio Lower Upper
 105 100
 120 52.0 20.5 30.7#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.022 ppbv

RT: 9.959 min Scan# 3051

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

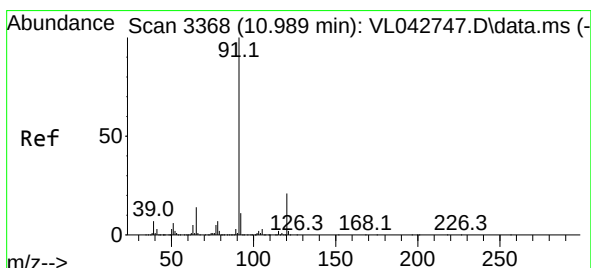
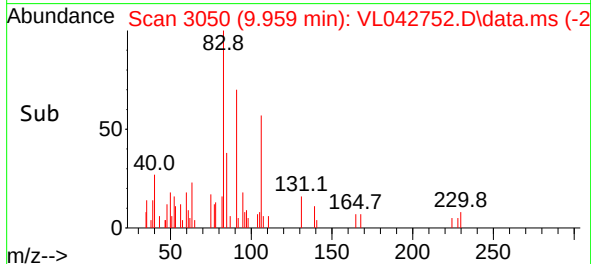
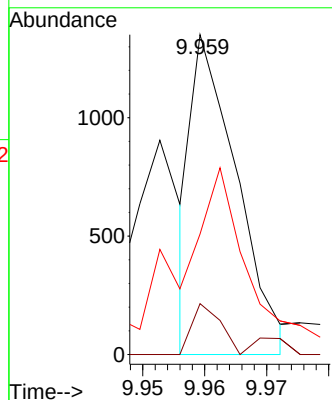
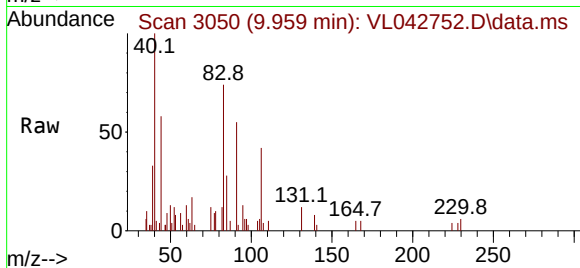
Tgt Ion: 83 Resp: 685

Ion Ratio Lower Upper

83 100

131 14.2 5.0 15.0

85 102.5 32.6 97.7#



#64

n-propylbenzene

Concen: 0.025 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042752.D

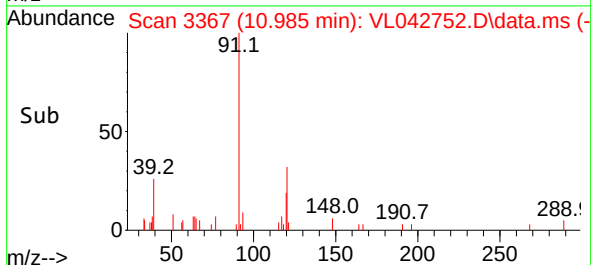
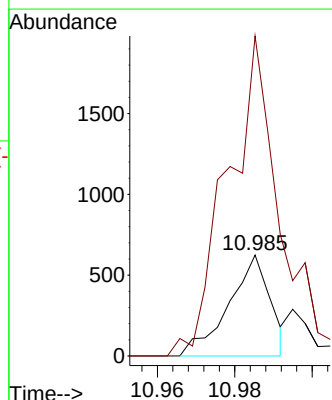
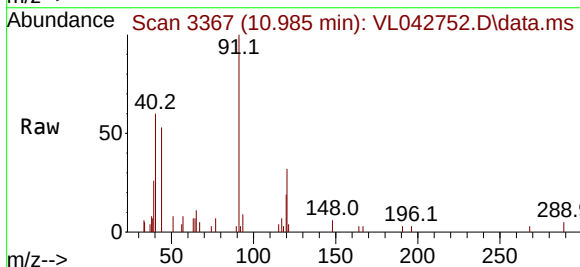
Acq: 23 Jul 2025 11:50

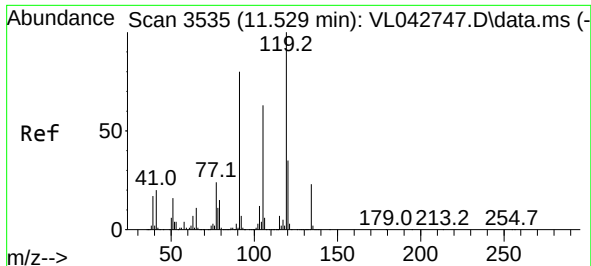
Tgt Ion: 120 Resp: 465

Ion Ratio Lower Upper

120 100

91 408.8 372.7 559.1

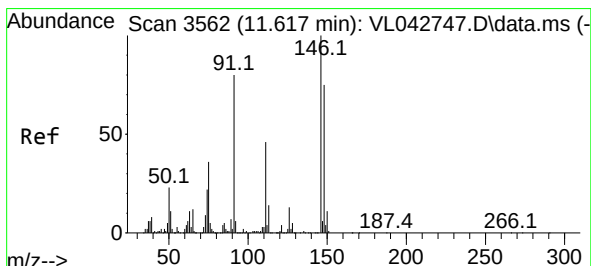
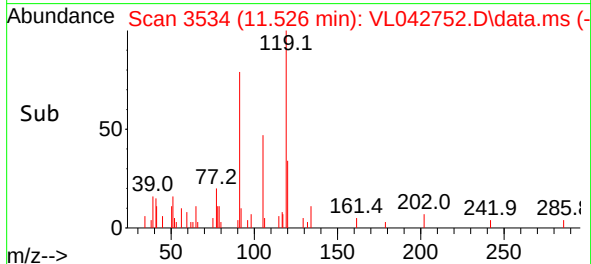
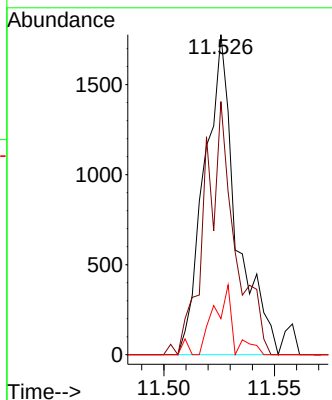
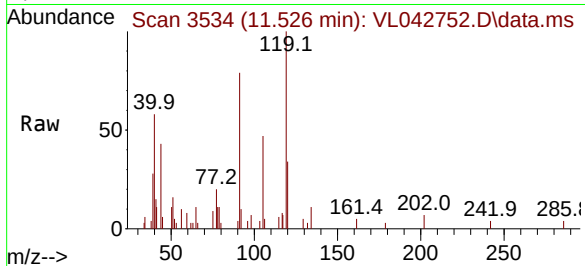




#65
tert-Butylbenzene
Concen: 0.028 ppbv
RT: 11.526 min Scan# 311
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

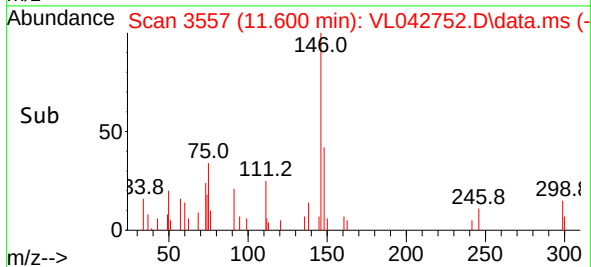
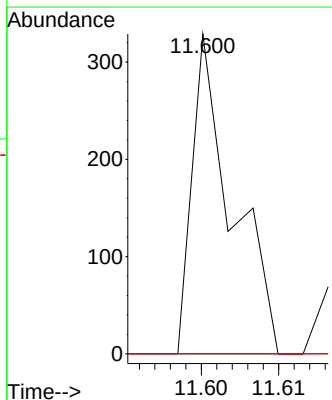
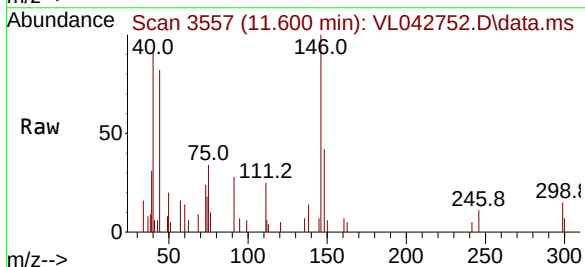
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

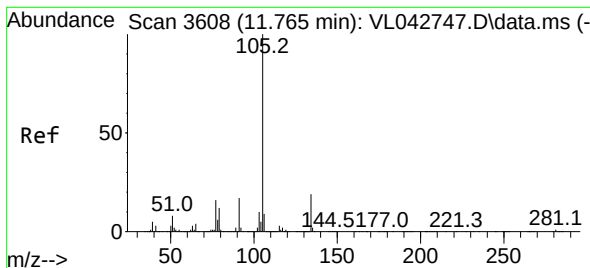
Tgt Ion:119 Resp: 1786
Ion Ratio Lower Upper
119 100
91 74.6 64.0 96.0
134 14.2 17.3 25.9#



#66
Benzyl Chloride
Concen: 0.022 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.016 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 118
Ion Ratio Lower Upper
91 100
126 38.1 14.4 21.6#
128 0.0 5.2 7.8#





#67

sec-Butylbenzene

Concen: 0.016 ppbv

RT: 11.529 min Scan# 3177

Delta R.T. -0.236 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

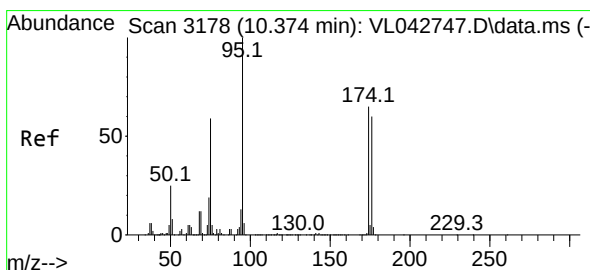
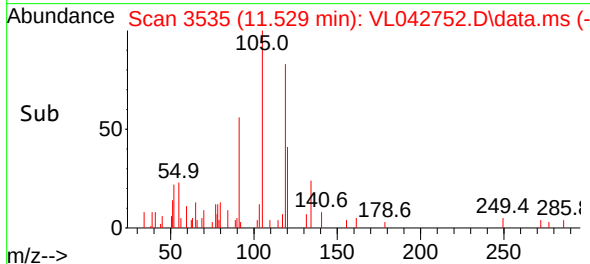
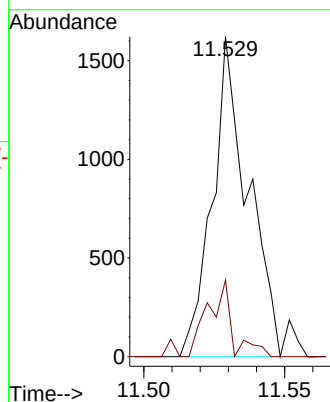
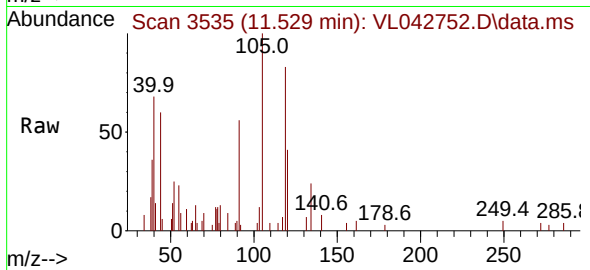
VSTDIC0.03

Tgt Ion:105 Resp: 1421

Ion Ratio Lower Upper

105 100

134 17.8 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.845 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

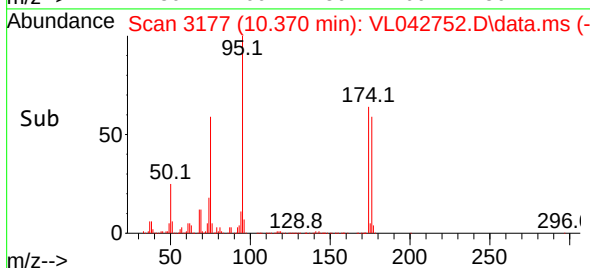
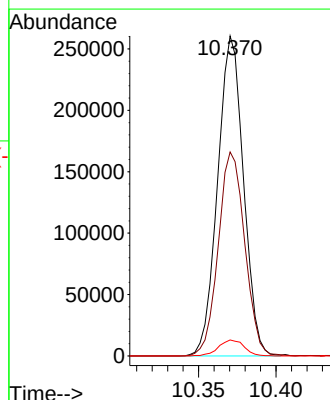
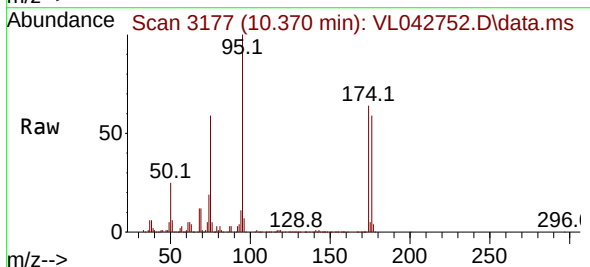
Tgt Ion: 95 Resp: 302164

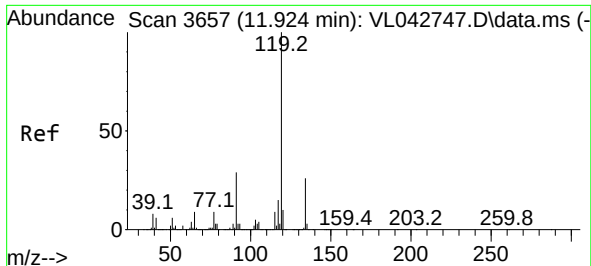
Ion Ratio Lower Upper

95 100

174 65.6 53.8 80.6

175 5.0 4.0 6.0

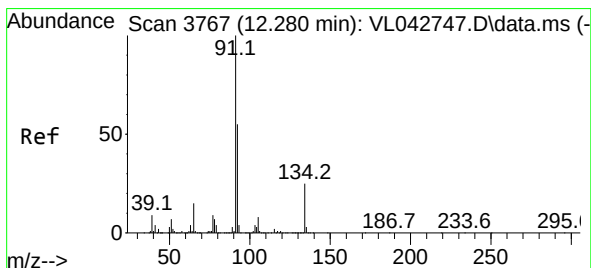
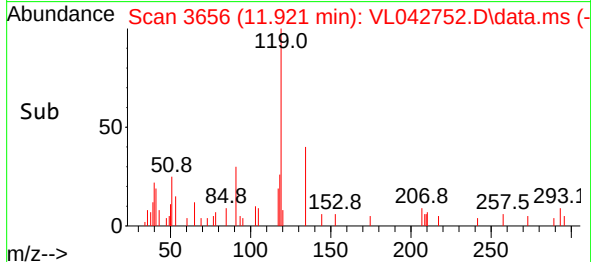
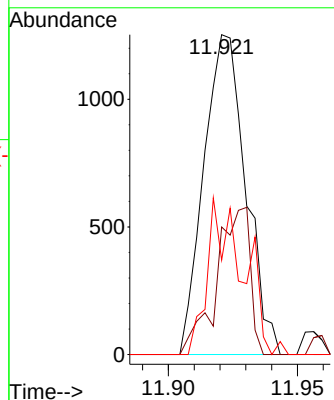
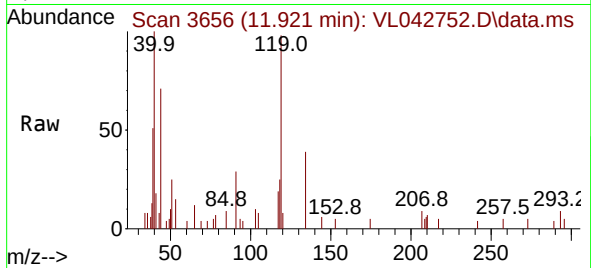




#69
p-Isopropyltoluene
Concen: 0.019 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

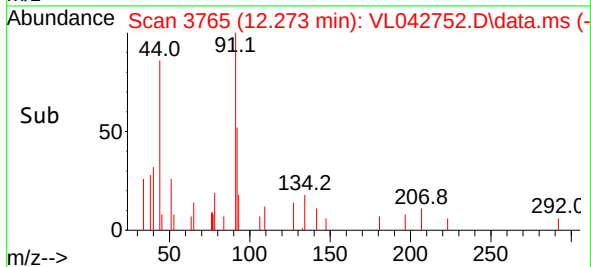
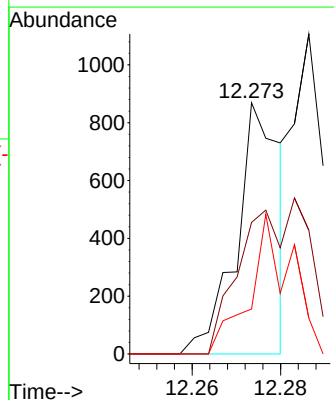
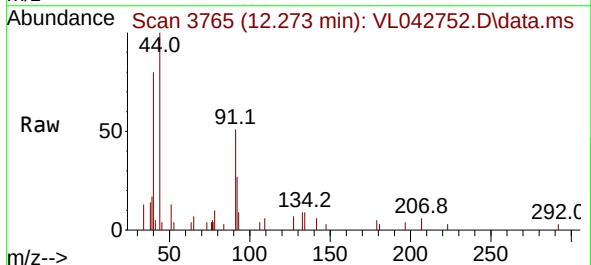
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

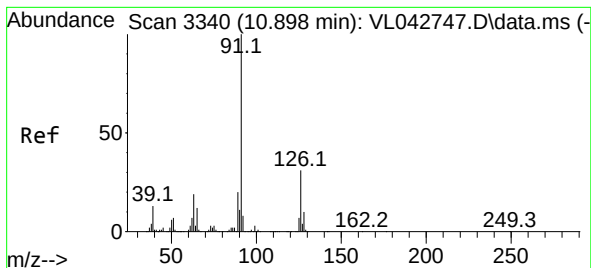
Tgt Ion:119 Resp: 1420
Ion Ratio Lower Upper
119 100
134 36.6 20.6 31.0#
91 41.5 23.2 34.8#



#70
n-Butylbenzene
Concen: 0.008 ppbv
RT: 12.273 min Scan# 3765
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 591
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 62.9 19.6 29.4#

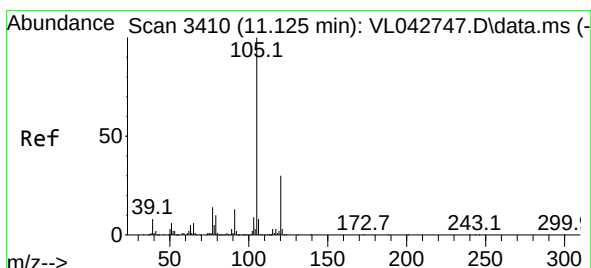
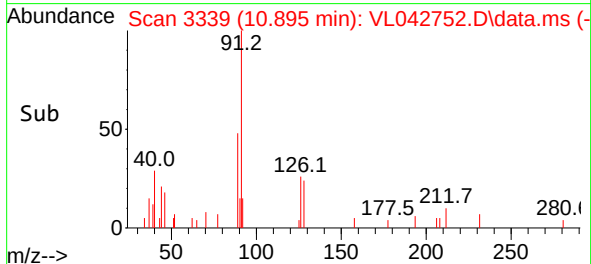
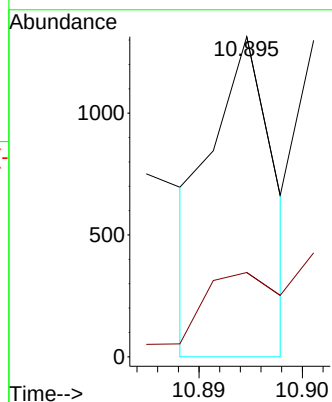
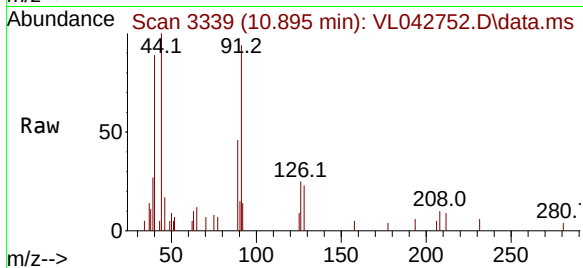




#71
2-Chlorotoluene
Concen: 0.010 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

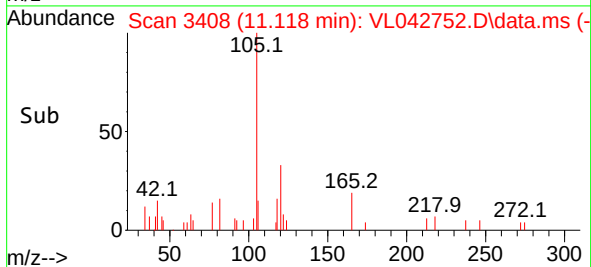
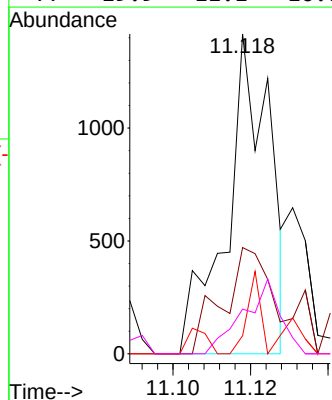
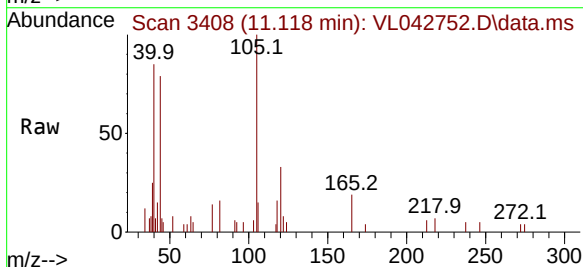
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

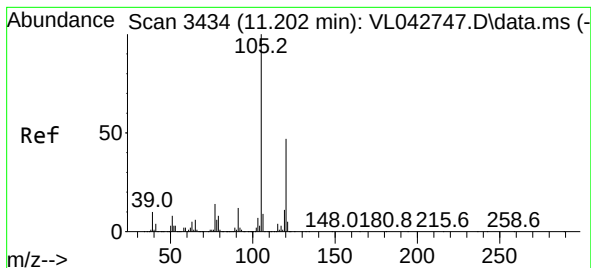
Tgt Ion: 91 Resp: 547
Ion Ratio Lower Upper
91 100
126 0.0 12.0 48.2#



#72
4-Ethyltoluene
Concen: 0.019 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 105 Resp: 1098
Ion Ratio Lower Upper
105 100
120 48.5 24.4 36.6#
91 11.5 10.6 15.8
77 19.9 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.025 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

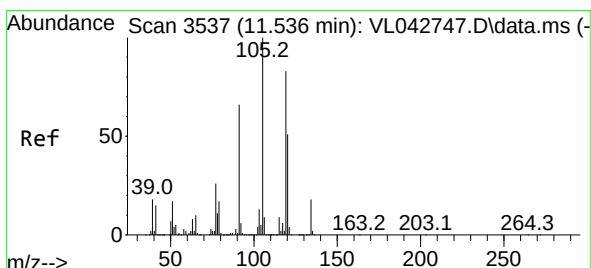
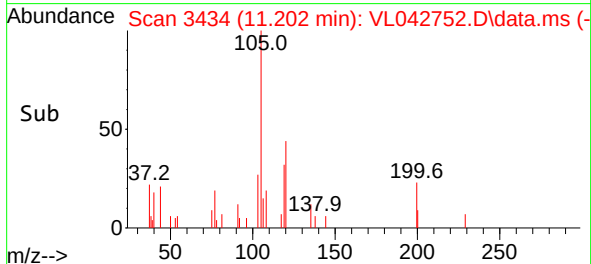
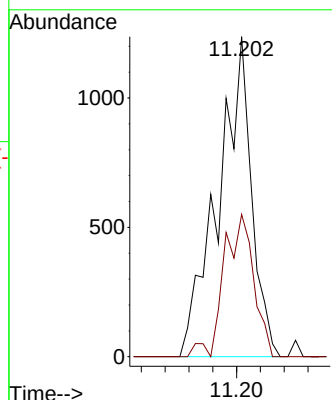
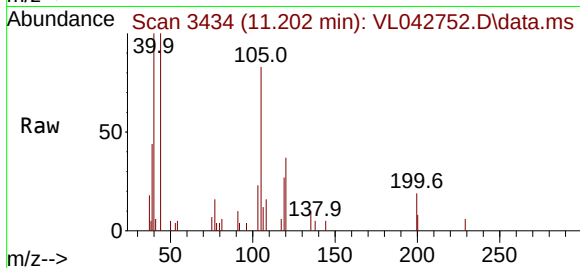
VSTDIC0.03

Tgt Ion:105 Resp: 1204

Ion Ratio Lower Upper

105 100

120 44.5 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.027 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1421

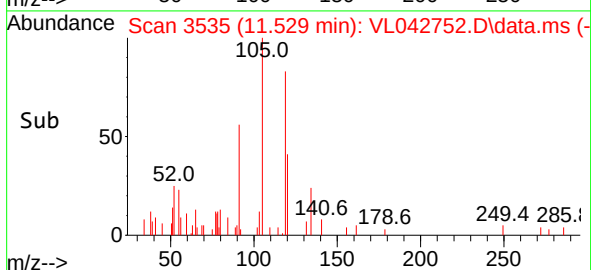
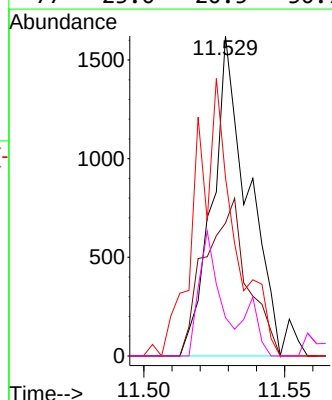
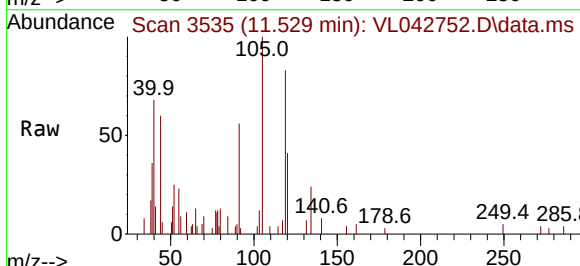
Ion Ratio Lower Upper

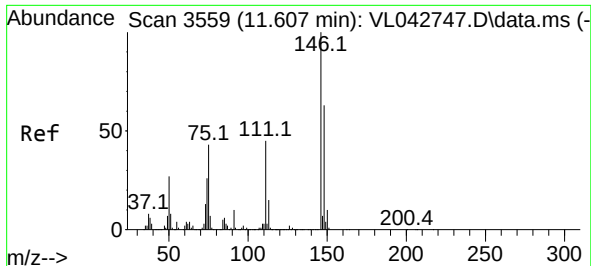
105 100

120 41.5 40.8 61.2

91 55.8 53.0 79.4

77 23.0 20.5 30.7

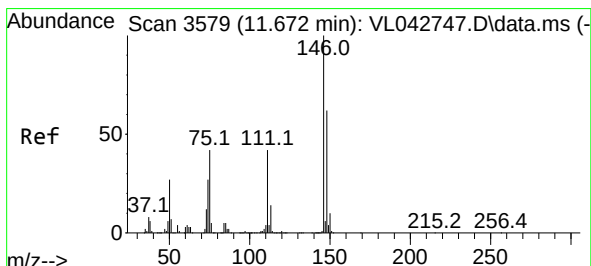
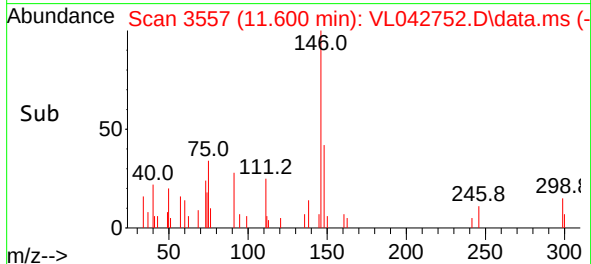
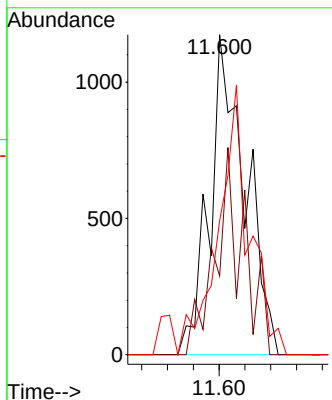
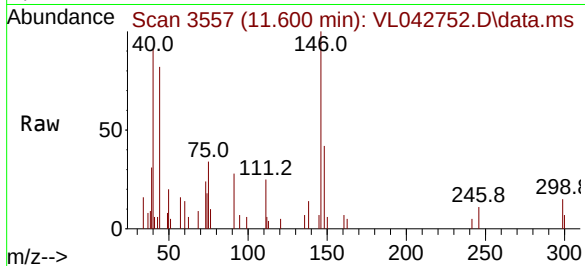




#75
1,3-Dichlorobenzene
Concen: 0.031 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

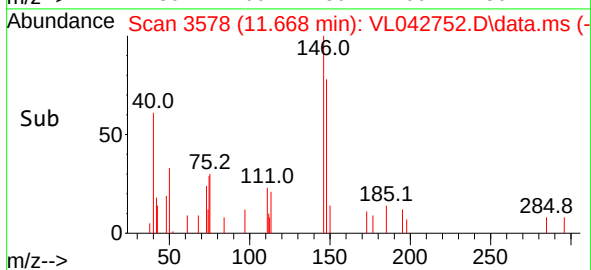
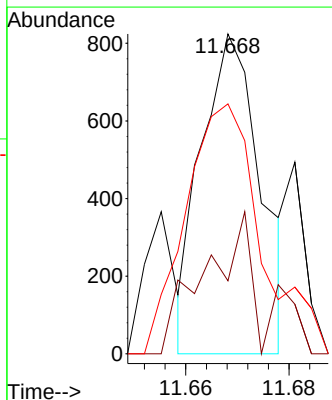
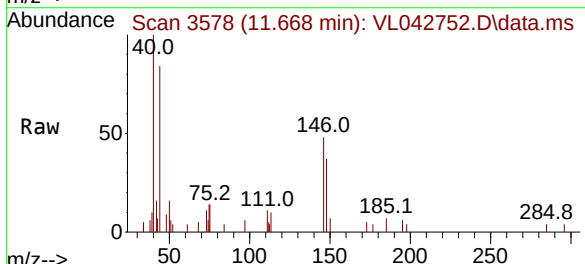
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

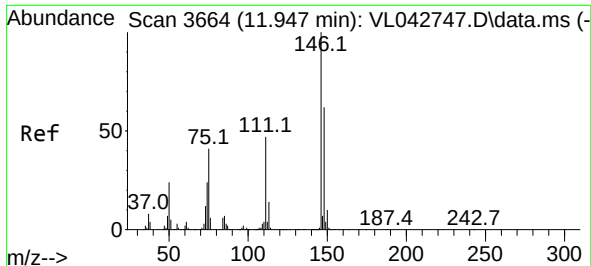
Tgt Ion:146 Resp: 1122
Ion Ratio Lower Upper
146 100
111 51.6 22.7 68.0
148 77.2 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 0.018 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:146 Resp: 658
Ion Ratio Lower Upper
146 100
111 45.9 21.4 64.2
148 99.2 32.1 96.3#

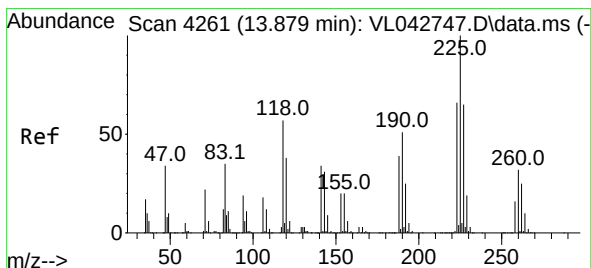
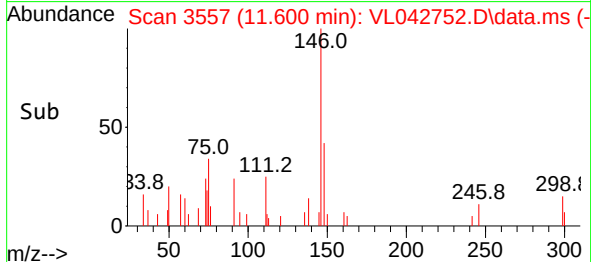
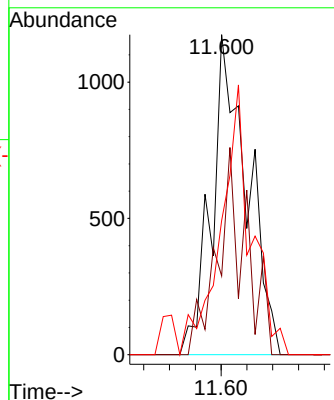
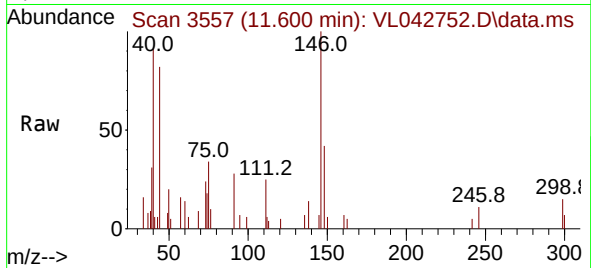




#77
1,2-Dichlorobenzene
Concen: 0.031 ppbv
RT: 11.600 min Scan# 311
Delta R.T. -0.347 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

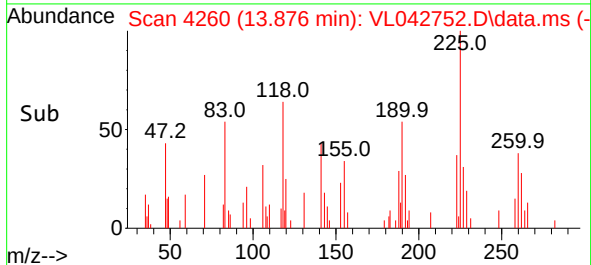
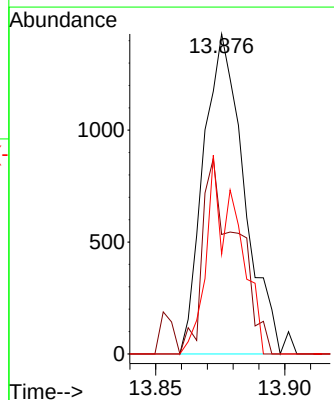
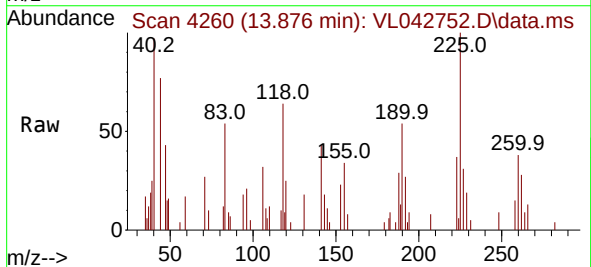
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

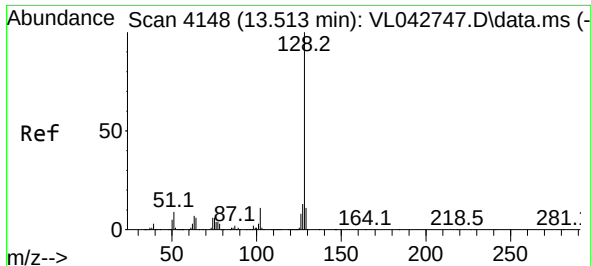
Tgt Ion:146 Resp: 1122
Ion Ratio Lower Upper
146 100
111 51.6 23.7 71.1
148 77.2 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.048 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:225 Resp: 1559
Ion Ratio Lower Upper
225 100
223 56.2 50.7 76.1
227 47.8 50.5 75.7#

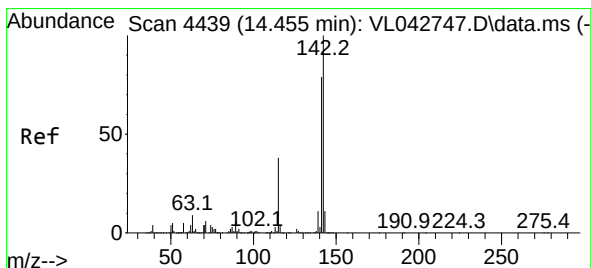
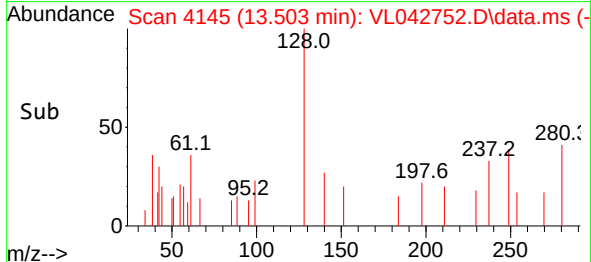
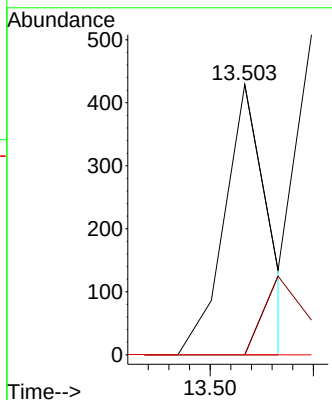
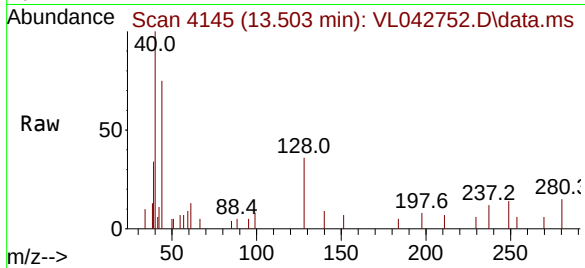




#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.503 min Scan# 4148
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

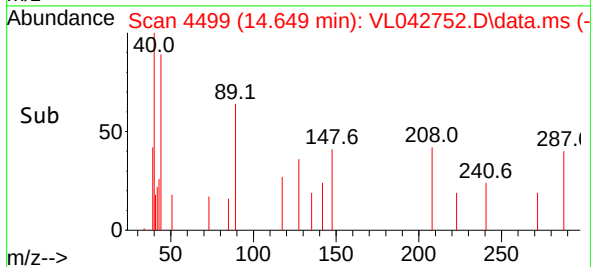
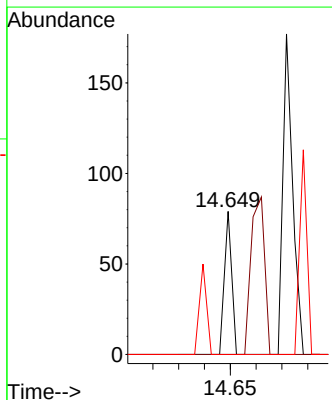
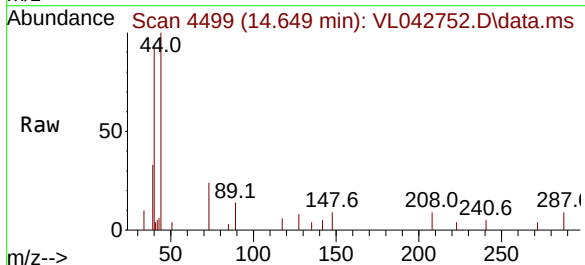
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

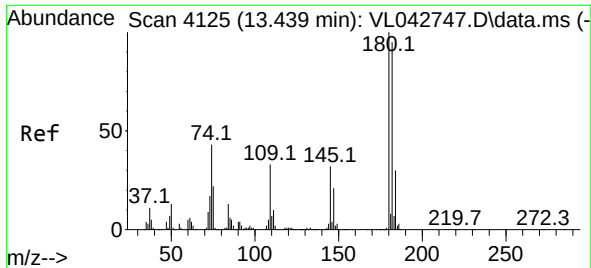
Tgt Ion:128 Resp: 126
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.127 ppbv
RT: 14.649 min Scan# 4499
Delta R.T. 0.194 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:142 Resp: 15
Ion Ratio Lower Upper
142 100
141 0.0 65.8 98.8#
115 66.7 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.438 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042752.D

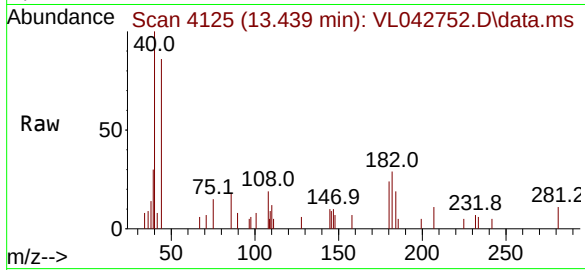
Acq: 23 Jul 2025 11:50

Instrument :

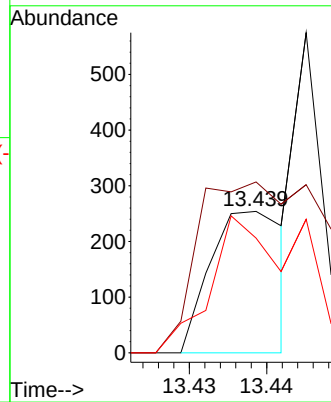
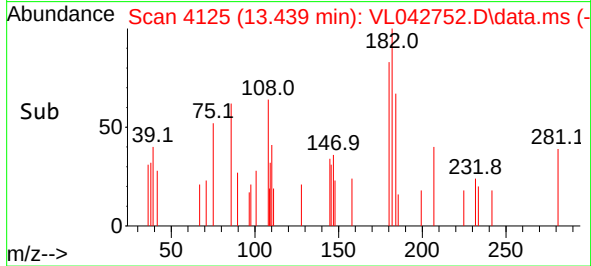
MSVOA_L

ClientSampleId :

VSTDIC0.03



Tgt Ion:	180	Resp:	170
Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	116.5	24.8	37.2#



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

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 26 06:05:16 2022
 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

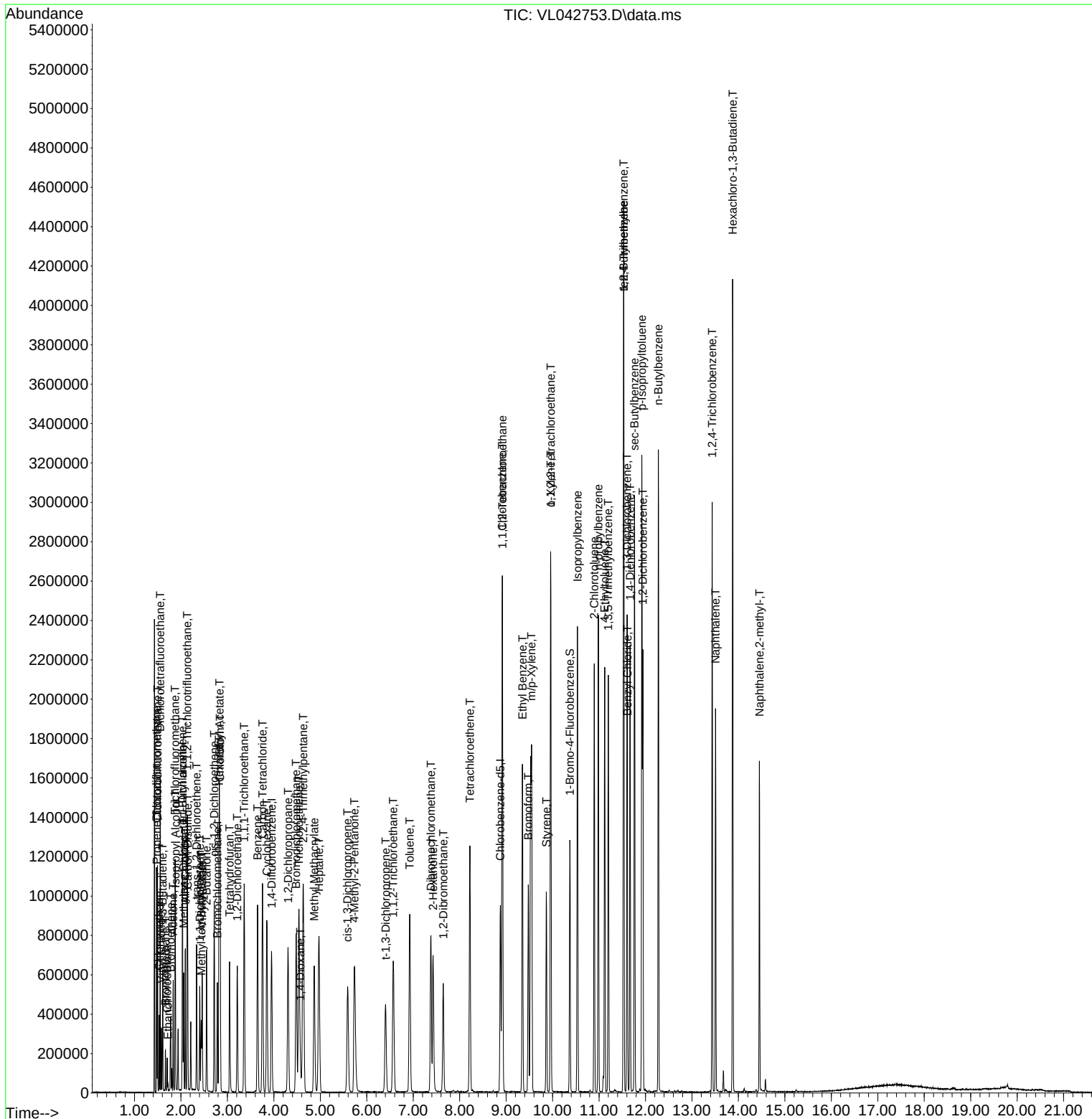
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

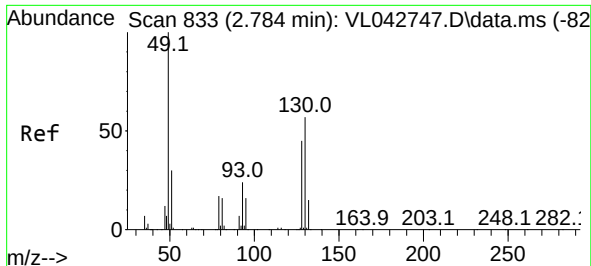
Quant Time: Jul 24 05:00:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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	766284	15.756	ppbv #	34
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

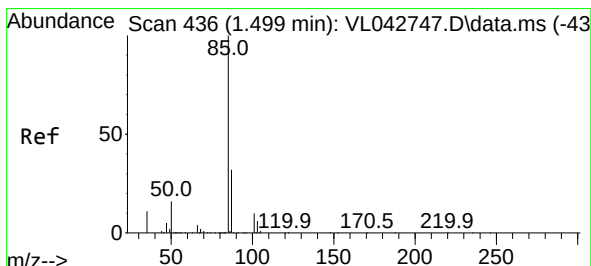
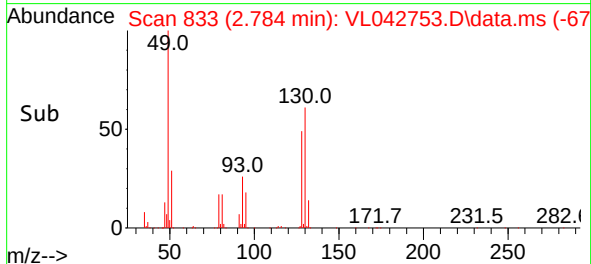
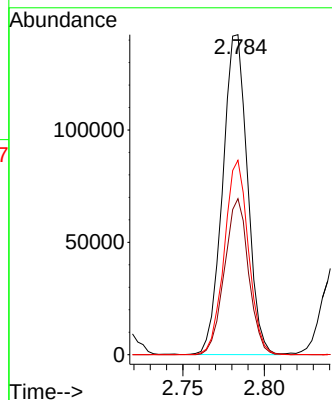
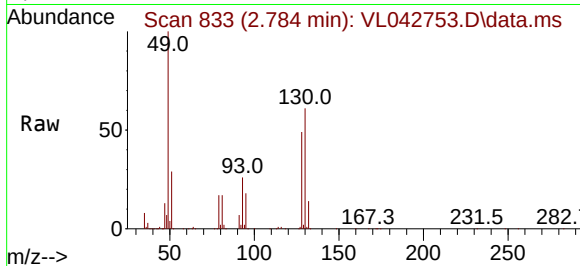




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

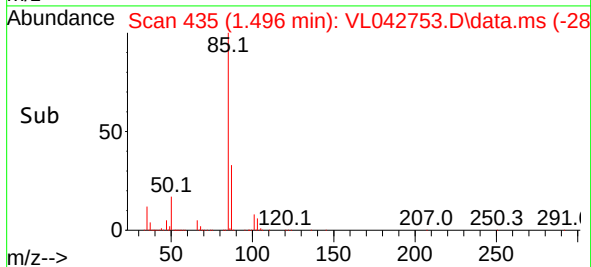
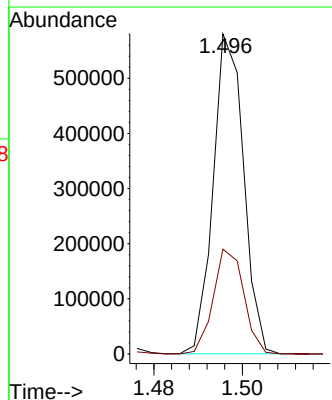
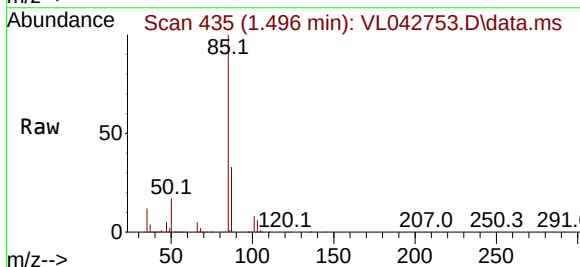
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

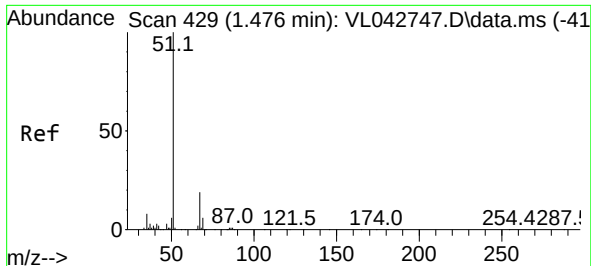
Tgt Ion: 49 Resp: 150331
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 59.2 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 13.938 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 277045
 Ion Ratio Lower Upper
 85 100
 87 32.7 25.4 38.2

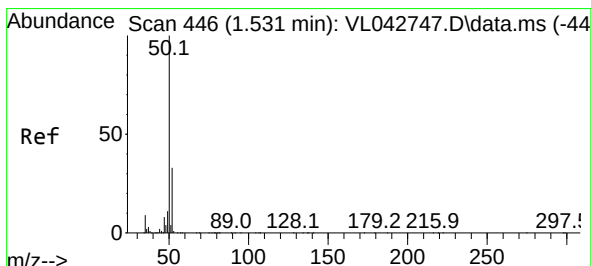
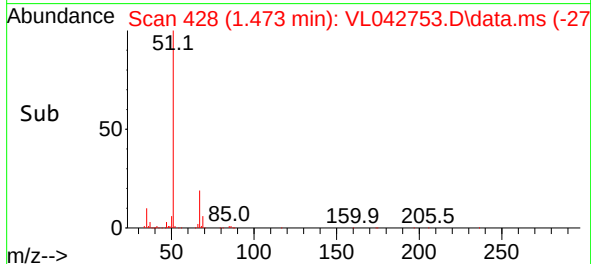
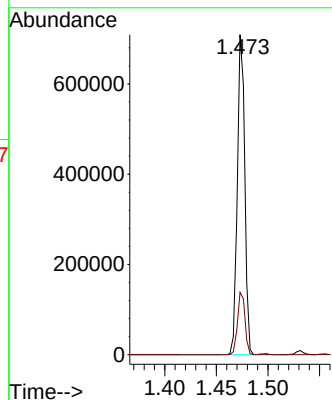
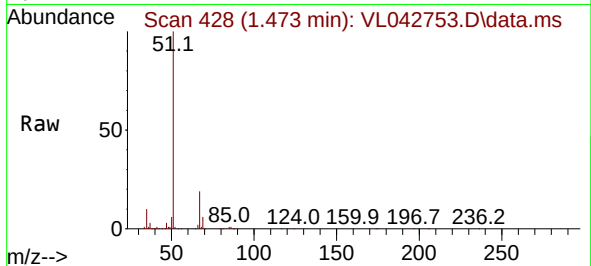




#3
Chlorodifluoromethane
Concen: 13.651 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

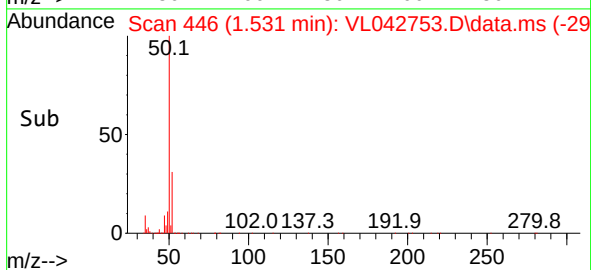
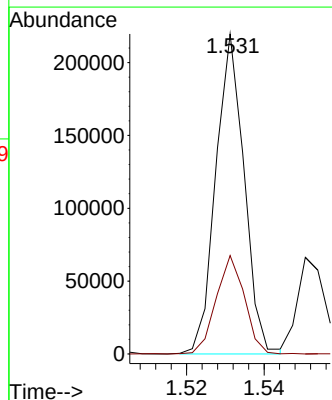
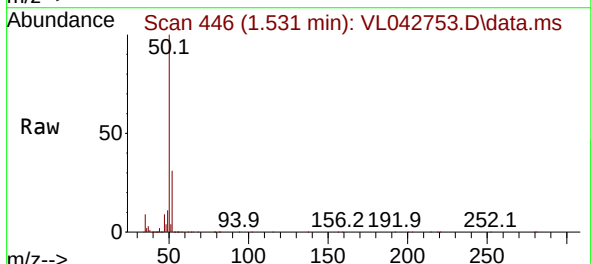
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

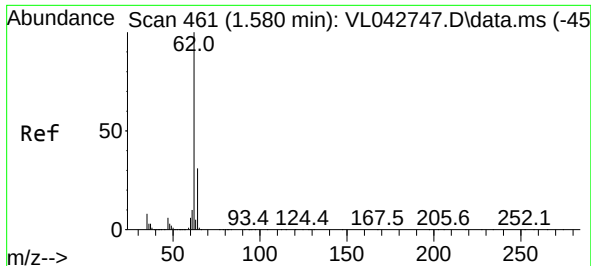
Tgt Ion: 51 Resp: 353451
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.6



#4
Chloromethane
Concen: 13.889 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 50 Resp: 111684
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

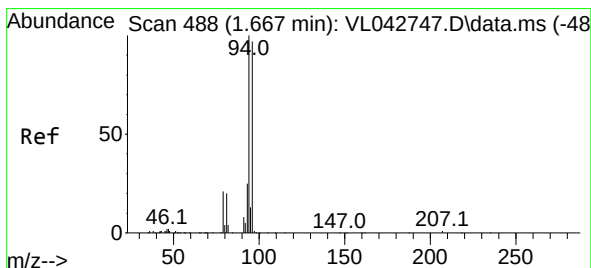
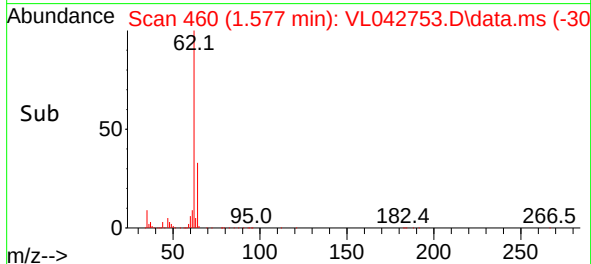
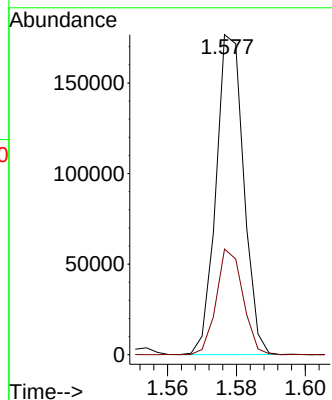
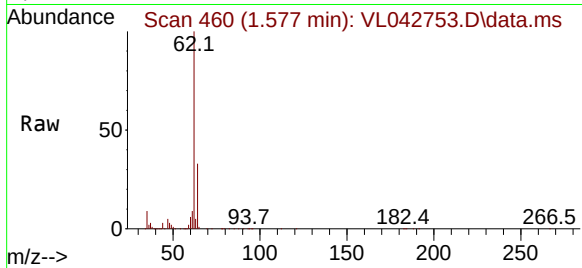




#5
 Vinyl Chloride
 Concen: 12.410 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

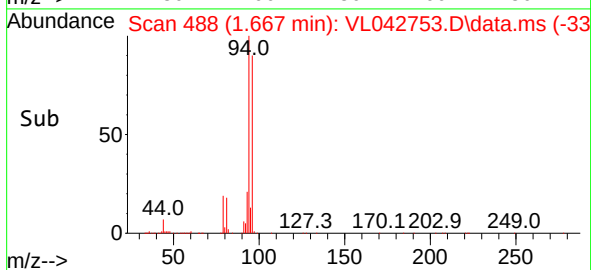
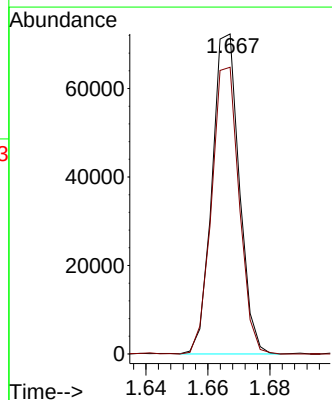
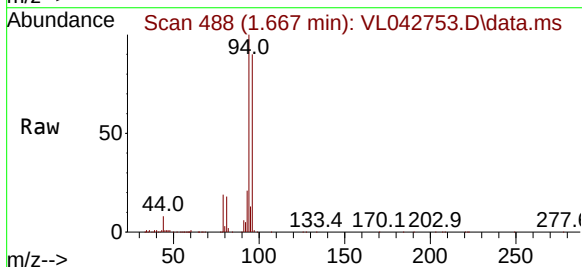
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

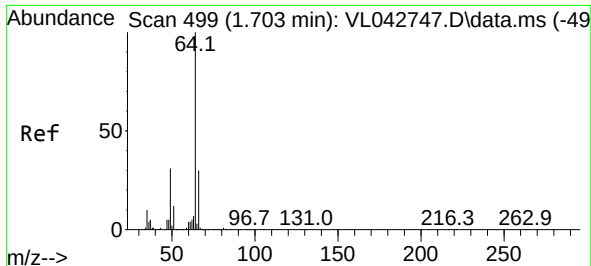
Tgt Ion: 62 Resp: 98596
 Ion Ratio Lower Upper
 62 100
 64 33.0 24.5 36.7



#6
 Bromomethane
 Concen: 14.372 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 94 Resp: 44144
 Ion Ratio Lower Upper
 94 100
 96 89.6 77.6 116.4

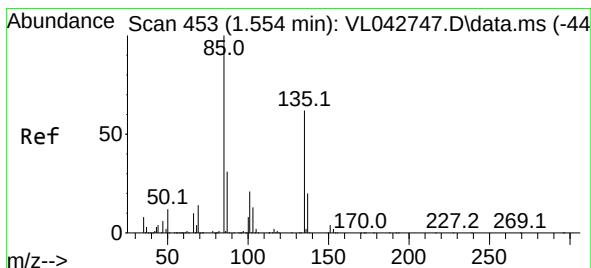
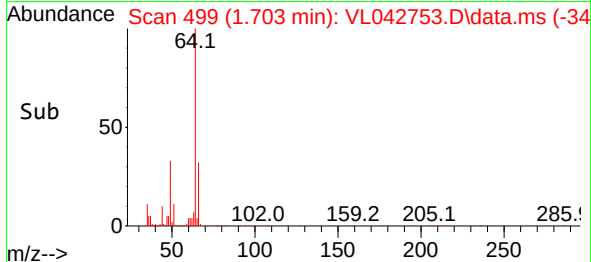
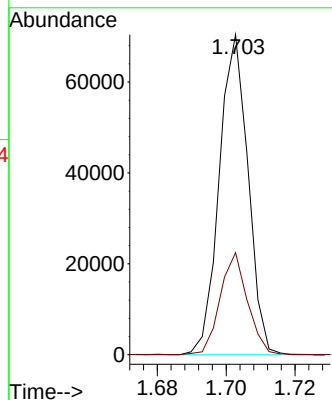
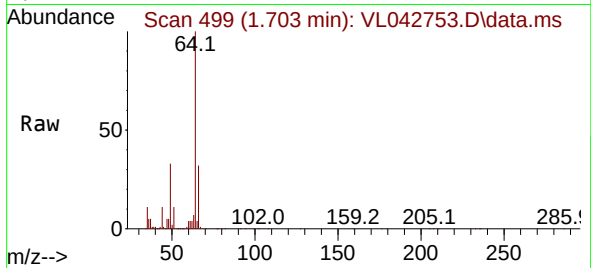




#7
Chloroethane
Concen: 13.327 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

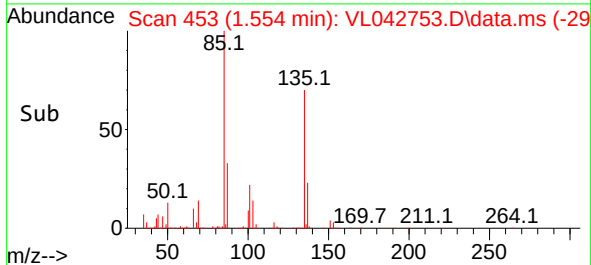
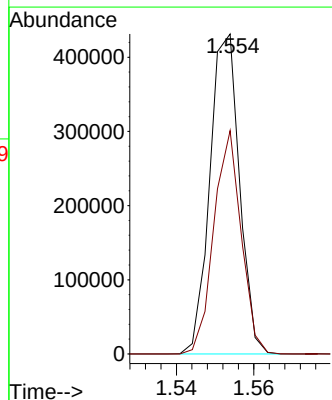
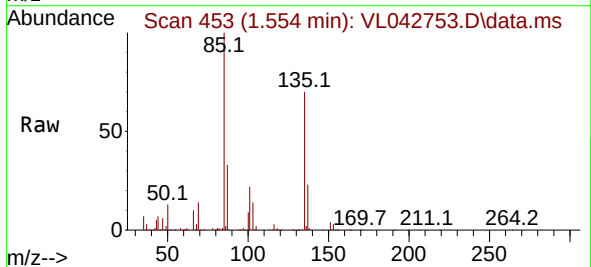
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

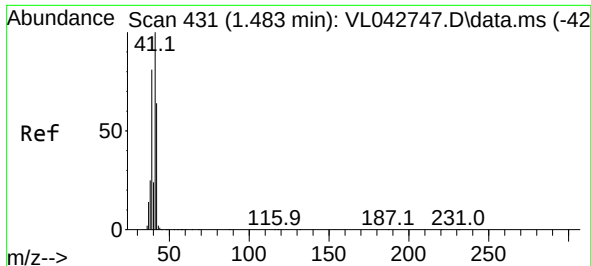
Tgt Ion: 64 Resp: 40909
Ion Ratio Lower Upper
64 100
66 31.9 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 14.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 229298
Ion Ratio Lower Upper
85 100
135 64.4 50.6 76.0





#9

Propene

Concen: 13.716 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

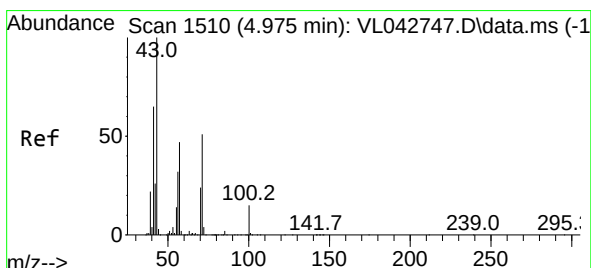
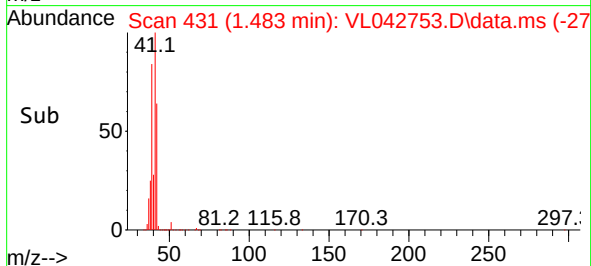
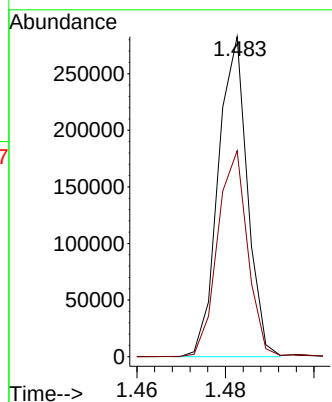
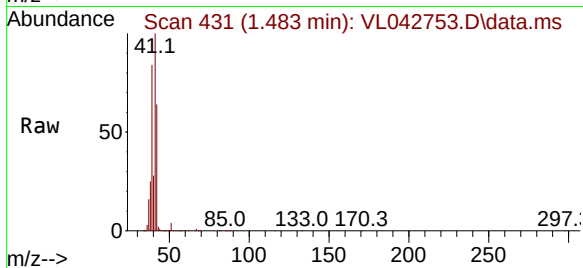
VSTDIC015

Tgt Ion: 41 Resp: 129069

Ion Ratio Lower Upper

41 100

42 67.0 53.2 79.8



#10

Heptane

Concen: 14.563 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.003 min

Lab File: VL042753.D

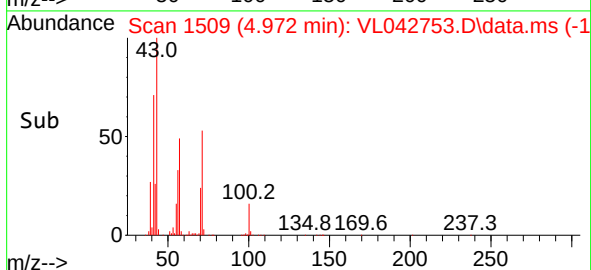
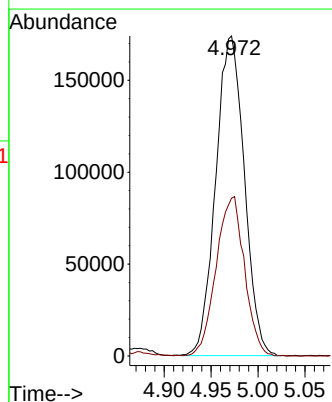
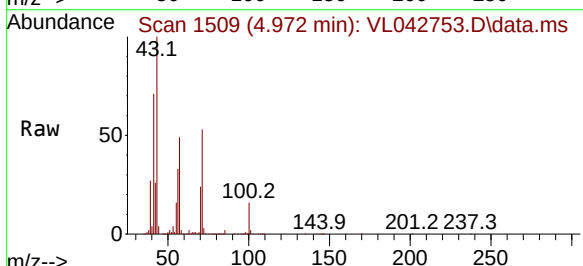
Acq: 23 Jul 2025 12:26

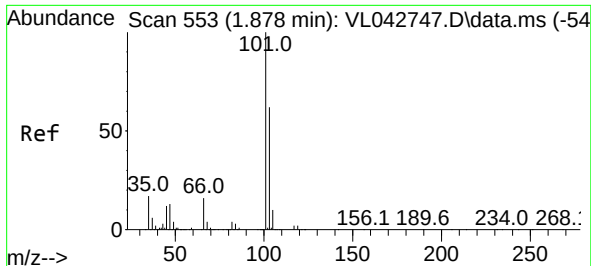
Tgt Ion: 43 Resp: 368612

Ion Ratio Lower Upper

43 100

57 49.4 39.9 59.9

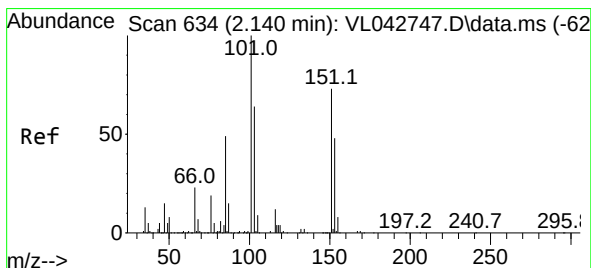
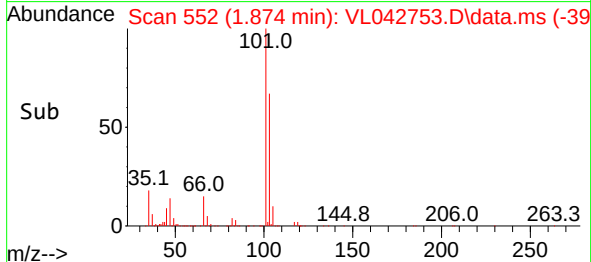
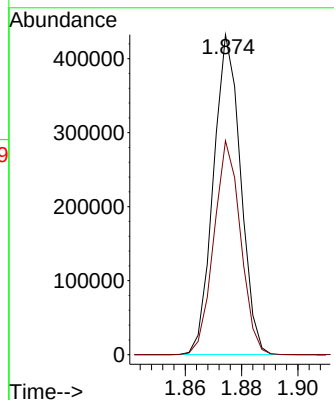
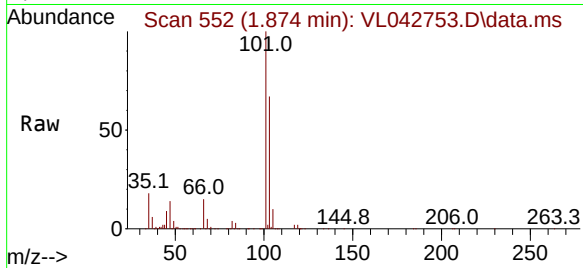




#11
 Trichlorofluoromethane
 Concen: 14.143 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

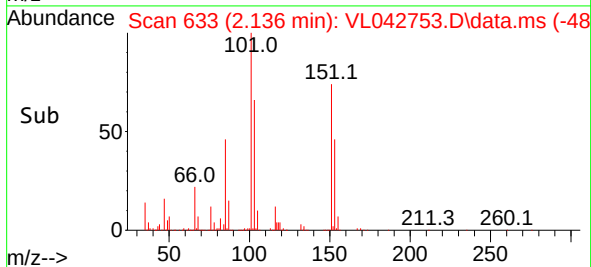
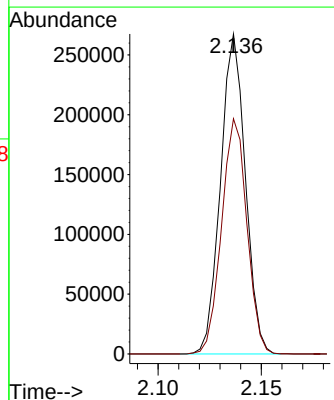
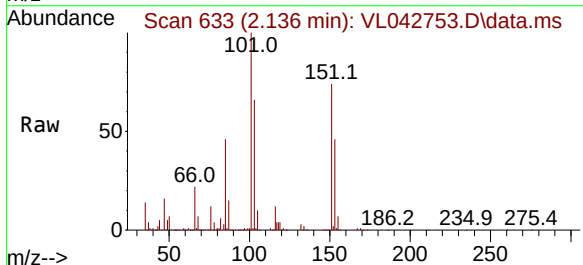
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

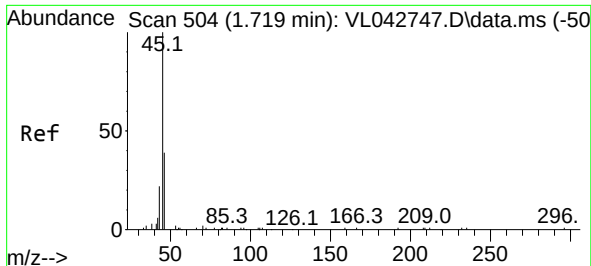
Tgt Ion:101 Resp: 289764
 Ion Ratio Lower Upper
 101 100
 103 66.8 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.358 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion:101 Resp: 223552
 Ion Ratio Lower Upper
 101 100
 151 74.9 60.5 90.7

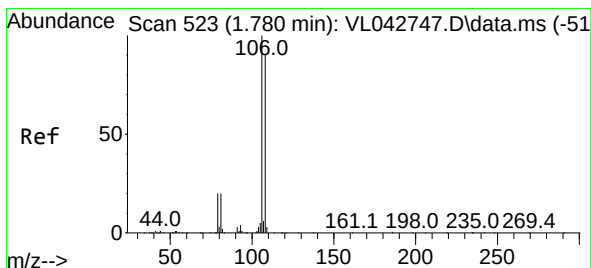
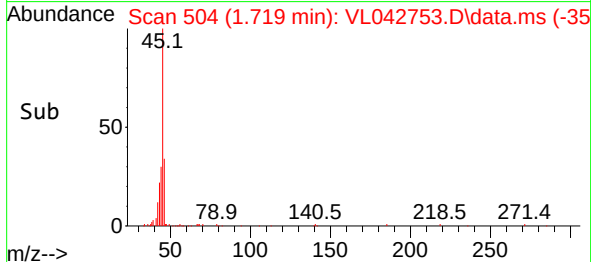
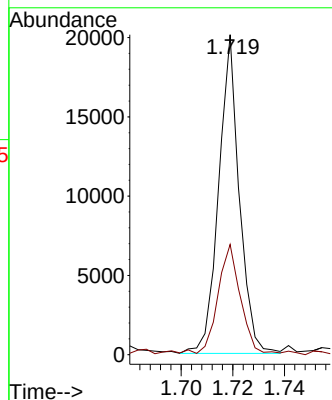
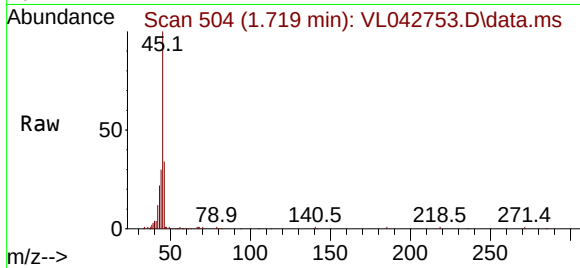




#13
Ethanol
Concen: 15.142 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

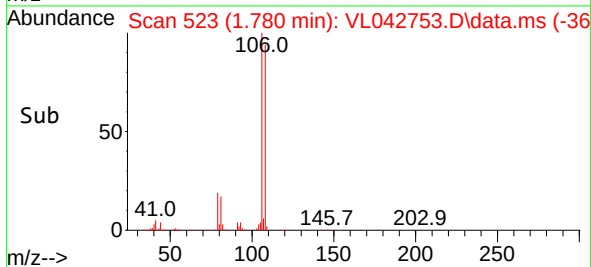
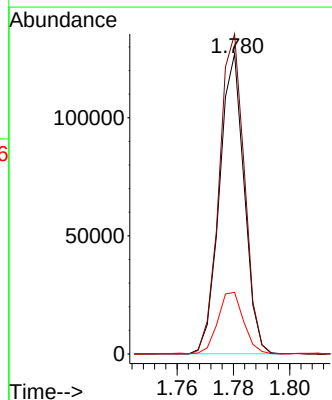
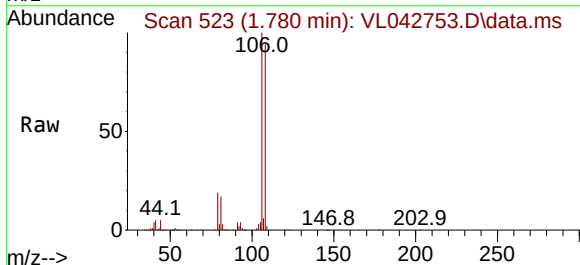
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

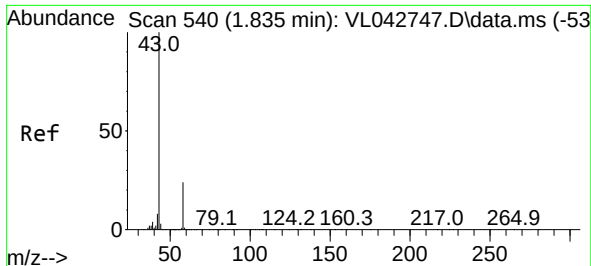
Tgt Ion: 45 Resp: 11145
Ion Ratio Lower Upper
45 100
46 35.4 17.8 71.4



#14
Bromoethene
Concen: 14.047 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 108 Resp: 77435
Ion Ratio Lower Upper
108 100
106 108.5 84.7 127.1
79 22.3 17.4 26.2

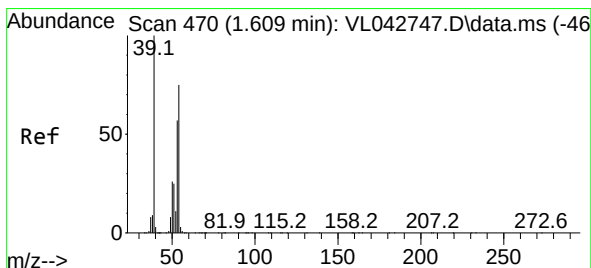
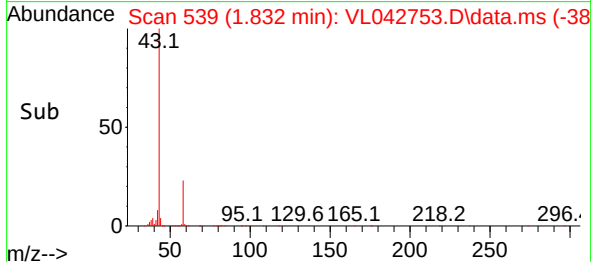
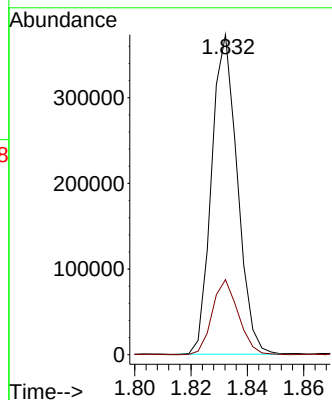
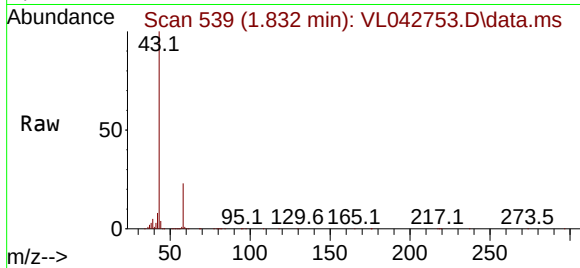




#15
Acetone
Concen: 11.449 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

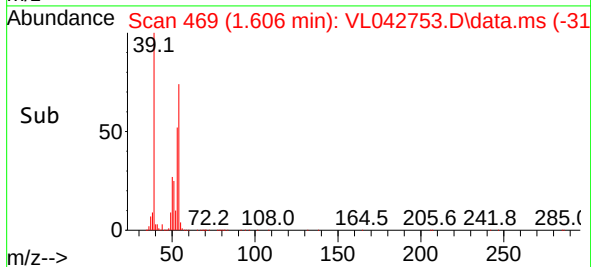
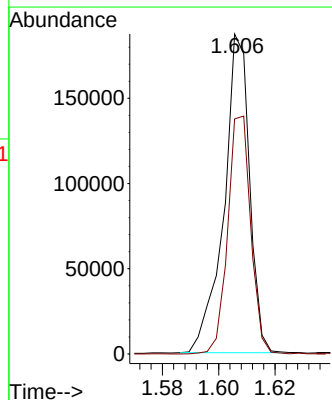
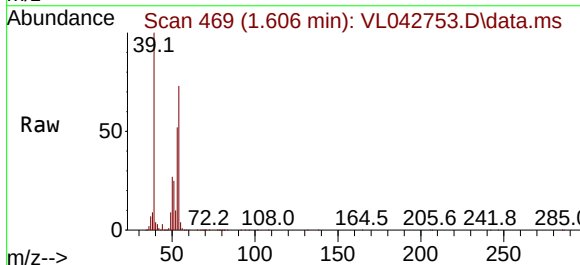
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

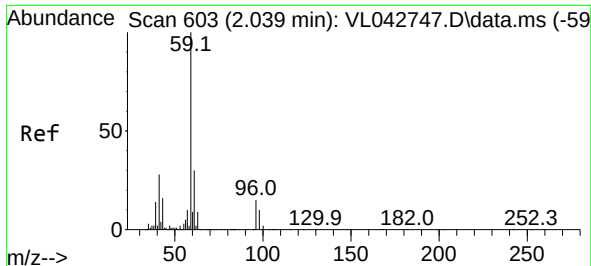
Tgt Ion: 43 Resp: 237665
Ion Ratio Lower Upper
43 100
58 24.0 19.8 29.8



#16
1,3-Butadiene
Concen: 13.355 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 39 Resp: 118252
Ion Ratio Lower Upper
39 100
54 67.5 54.5 81.7





#17

tert-Butyl alcohol

Concen: 13.919 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_1

ClientSampleId :

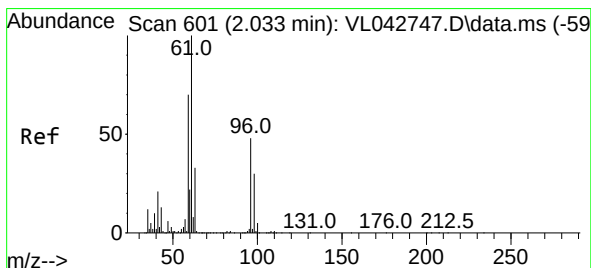
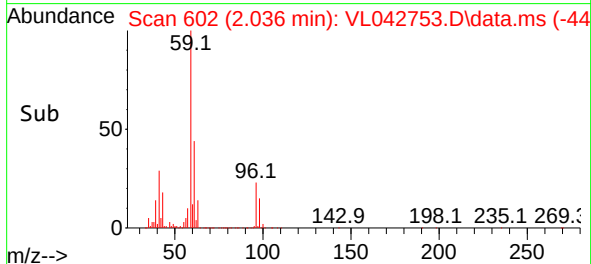
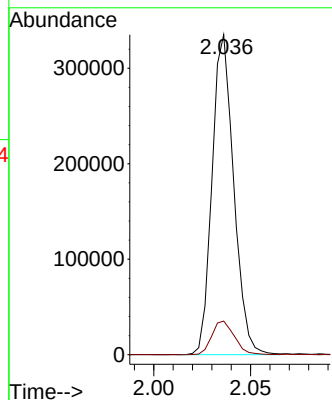
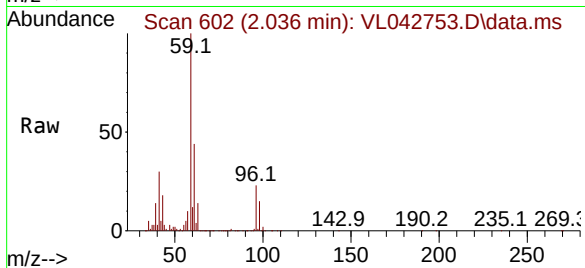
VSTDIC015

Tgt Ion: 59 Resp: 260587

Ion Ratio Lower Upper

59 100

57 11.1 8.3 12.5



#18

1,1-Dichloroethene

Concen: 13.382 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

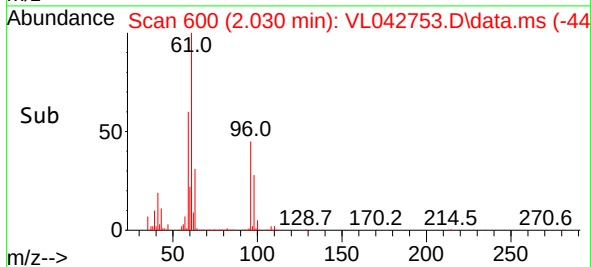
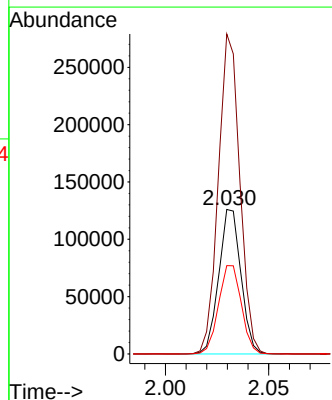
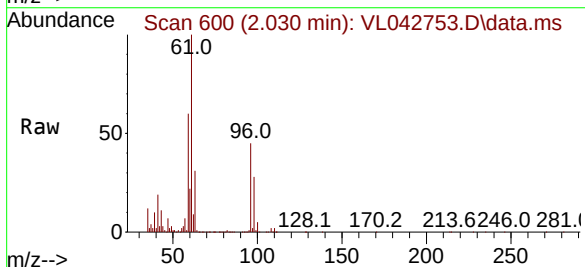
Tgt Ion: 96 Resp: 94140

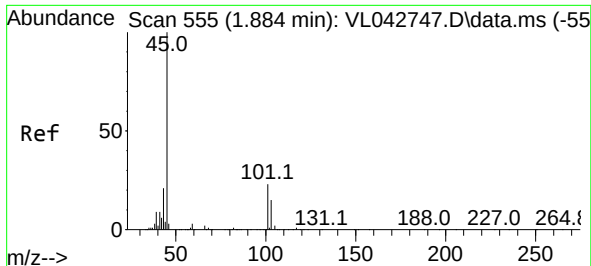
Ion Ratio Lower Upper

96 100

61 221.6 165.8 248.6

98 61.2 49.9 74.9

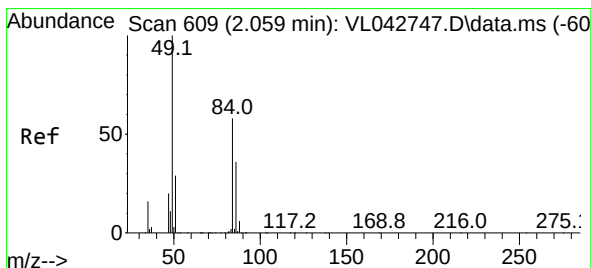
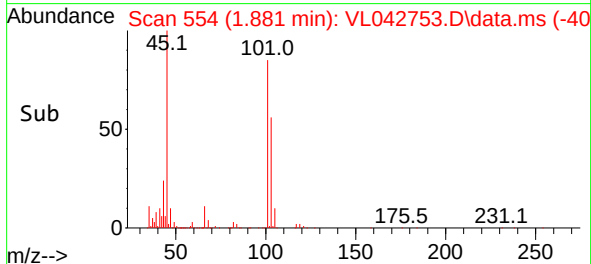
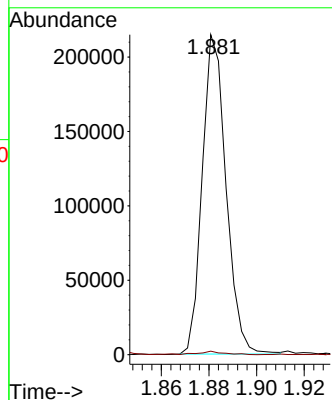
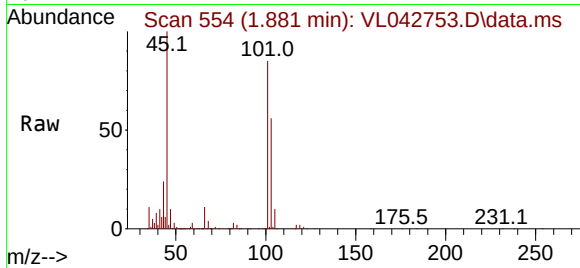




#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

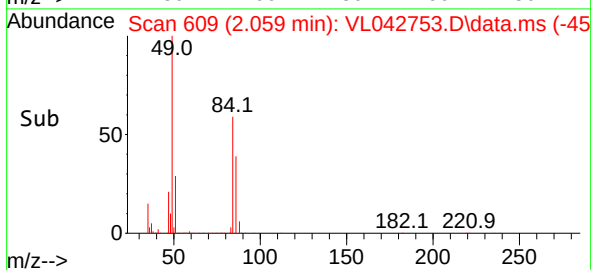
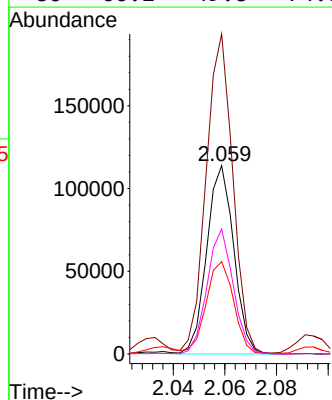
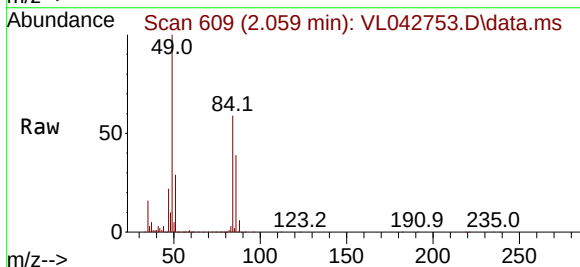
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

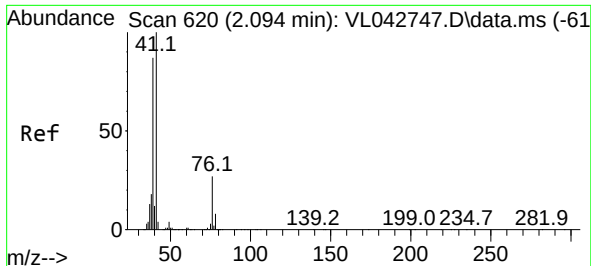
Tgt Ion: 45 Resp: 149463
Ion Ratio Lower Upper
45 100
58 38.1 30.0 45.0



#20
Methylene Chloride
Concen: 12.651 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 84 Resp: 82755
Ion Ratio Lower Upper
84 100
49 169.2 138.6 208.0
51 48.6 40.6 61.0
86 66.2 49.8 74.8

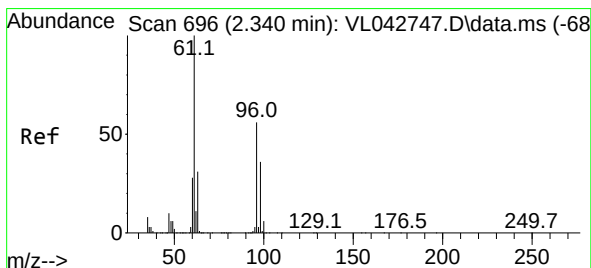
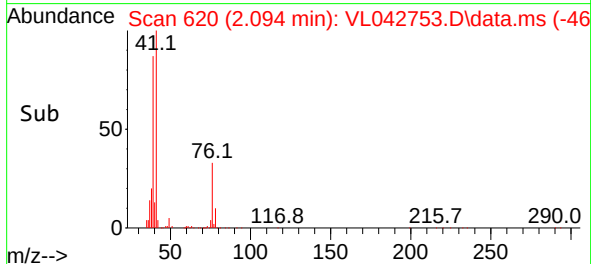
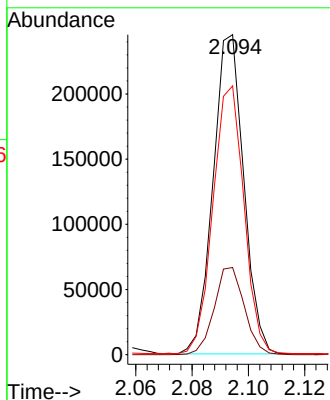
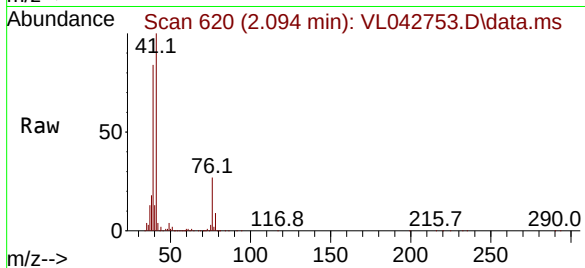




#21
 Allyl Chloride
 Concen: 14.476 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

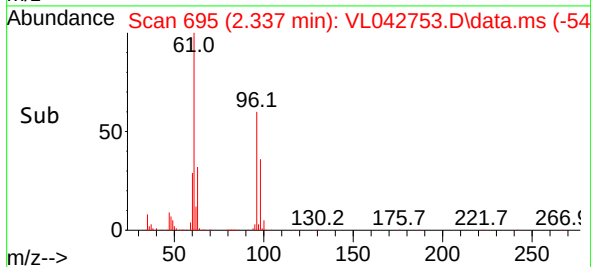
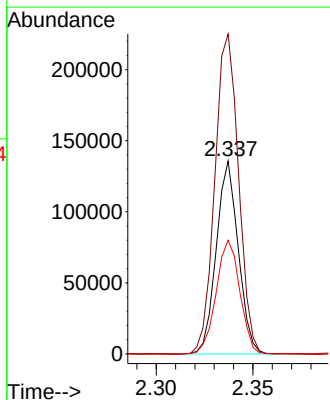
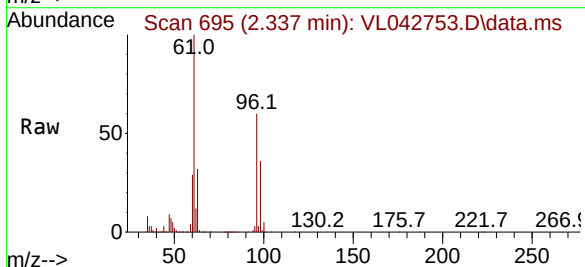
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

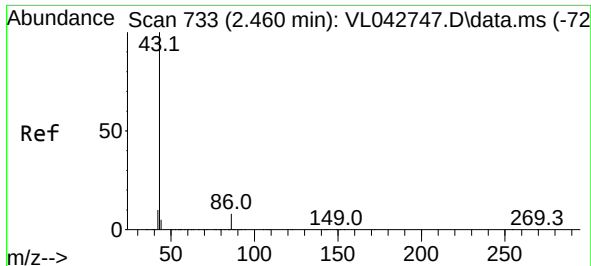
Tgt Ion: 41 Resp: 185201
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.1 31.7
 39 85.2 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 14.160 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 96 Resp: 107003
 Ion Ratio Lower Upper
 96 100
 61 165.9 142.3 213.5
 98 59.0 50.6 76.0



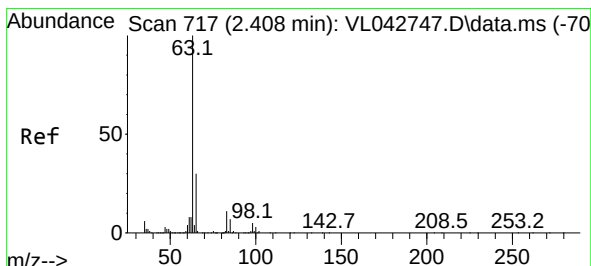
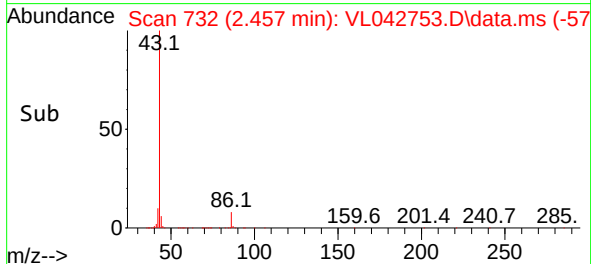
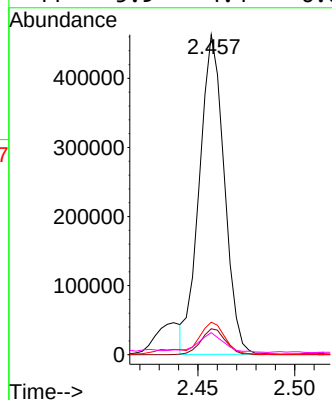
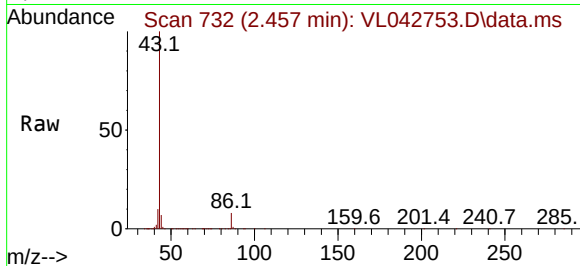


#23
 Vinyl Acetate
 Concen: 16.426 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 413378

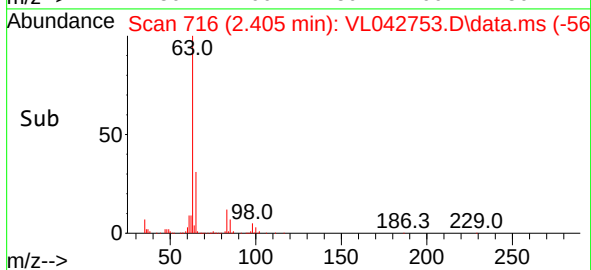
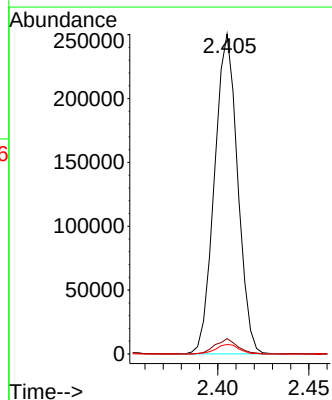
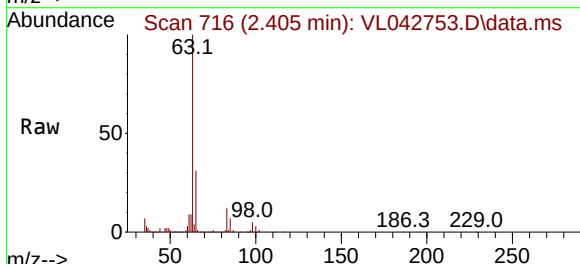
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	10.1	7.8	11.8
44	5.9	4.4	6.6

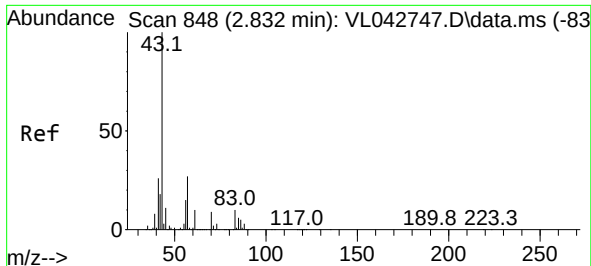


#24
 1,1-Dichloroethane
 Concen: 14.239 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 63 Resp: 221175

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.5	7.4
100	2.9	1.6	4.8

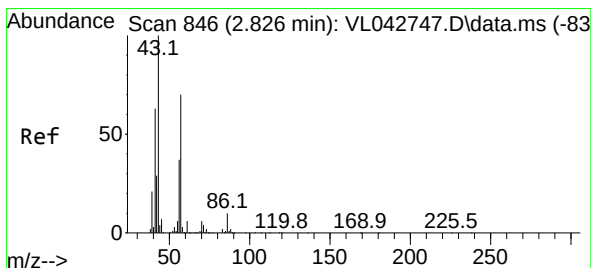
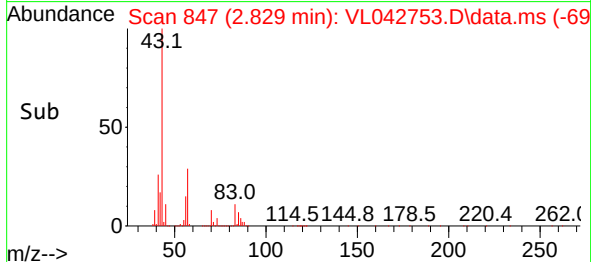
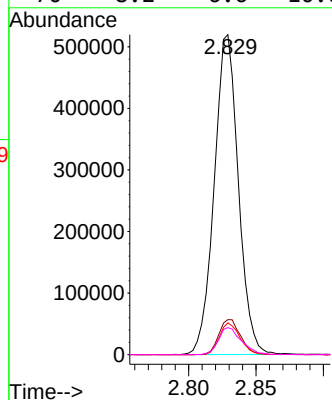
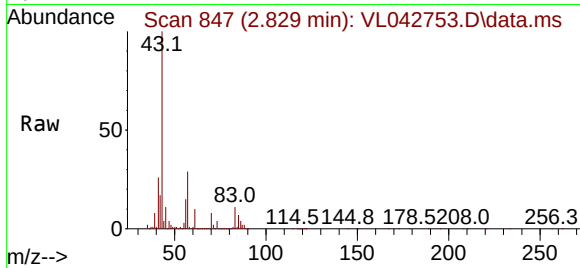




#25
Ethyl Acetate
Concen: 14.084 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

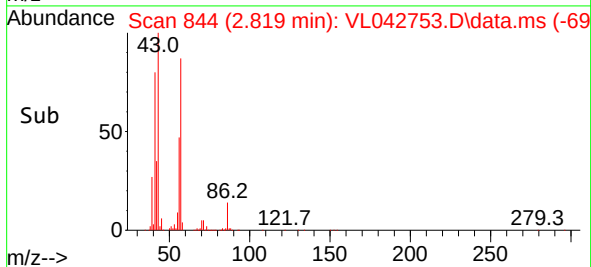
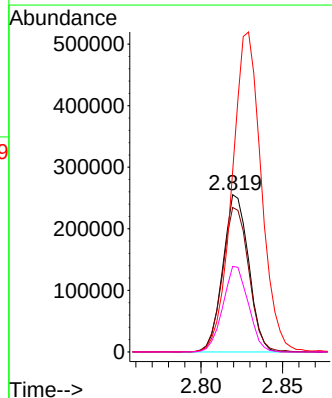
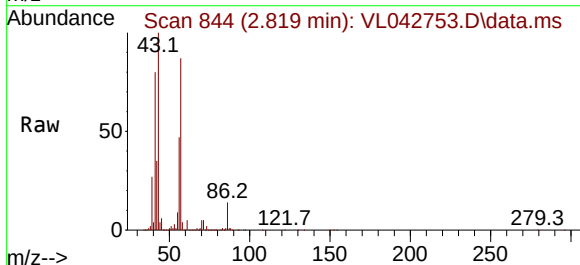
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

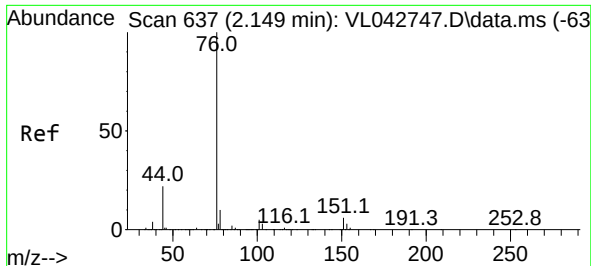
Tgt Ion: 43	Resp: 647150
Ion Ratio	Lower Upper
43 100	
45 10.0	7.8 11.6
61 8.6	6.7 10.1
70 8.2	6.6 10.0



#26
Hexane
Concen: 13.869 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57	Resp: 279549
Ion Ratio	Lower Upper
57 100	
41 94.6	75.4 113.2
43 232.7	185.0 277.6
56 53.9	42.9 64.3





#27

Carbon Disulfide

Concen: 15.119 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

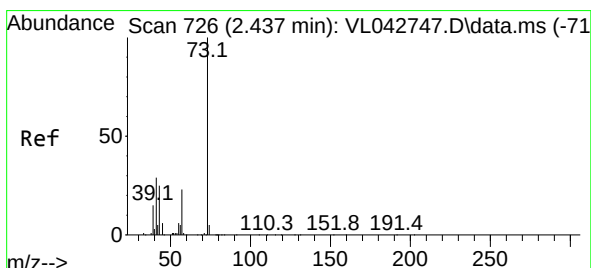
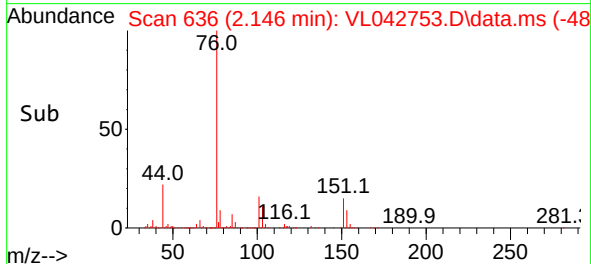
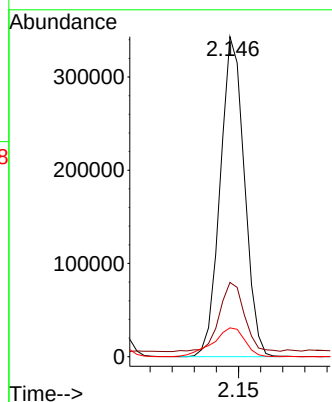
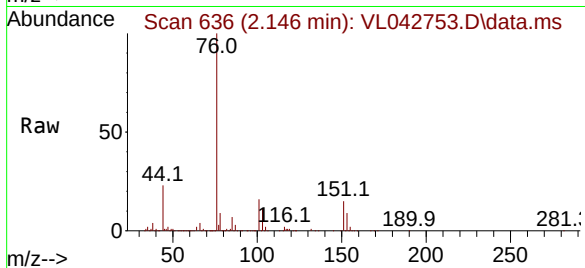
Tgt Ion: 76 Resp: 260884

Ion Ratio Lower Upper

76 100

44 23.1 19.3 28.9

78 11.9 9.9 14.9



#28

Methyl tert-Butyl Ether

Concen: 16.477 ppbv

RT: 2.437 min Scan# 726

Delta R.T. -0.000 min

Lab File: VL042753.D

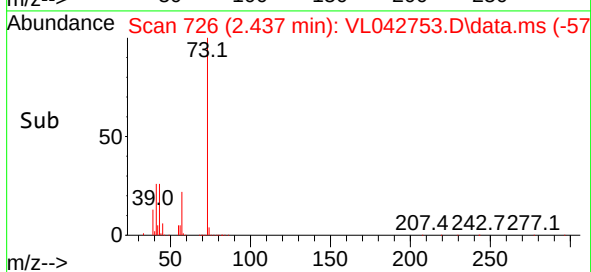
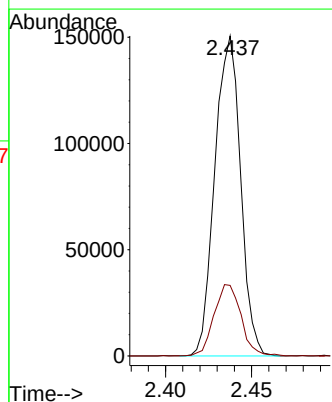
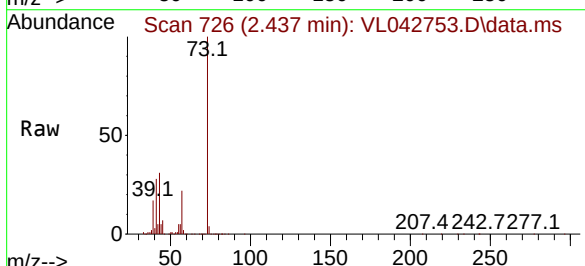
Acq: 23 Jul 2025 12:26

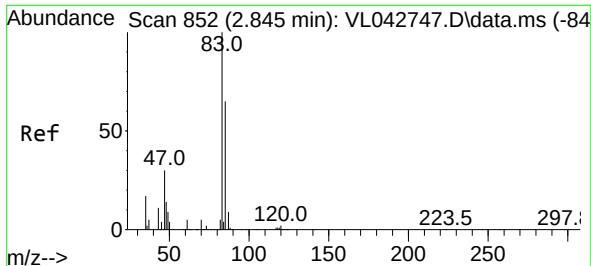
Tgt Ion: 73 Resp: 156895

Ion Ratio Lower Upper

73 100

57 23.5 19.8 29.8





#29

Chloroform

Concen: 14.067 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

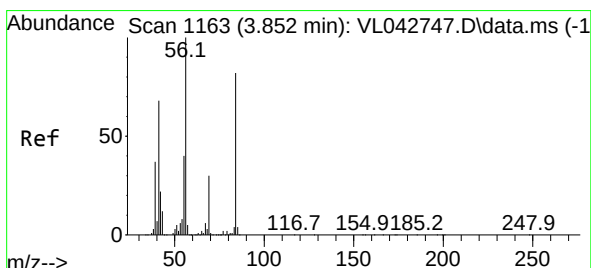
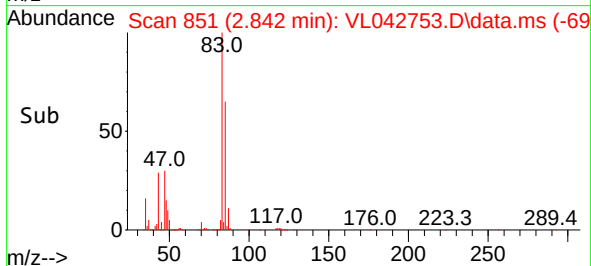
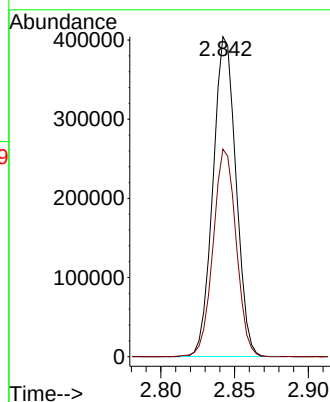
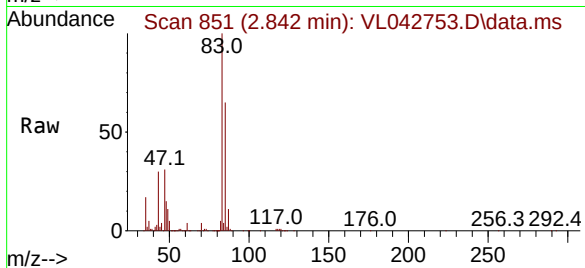
VSTDIC015

Tgt Ion: 83 Resp: 438155

Ion Ratio Lower Upper

83 100

85 64.9 52.2 78.2



#30

Cyclohexane

Concen: 14.280 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

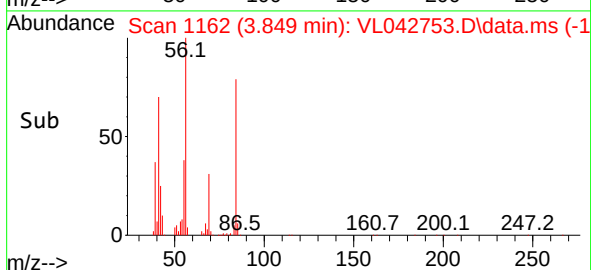
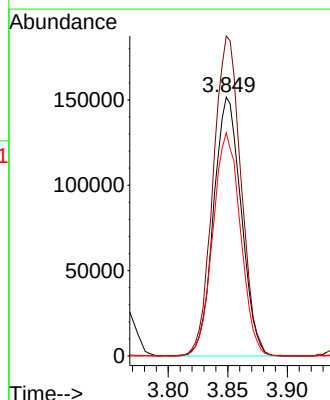
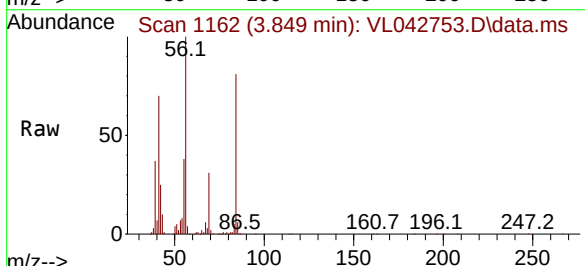
Tgt Ion: 84 Resp: 244116

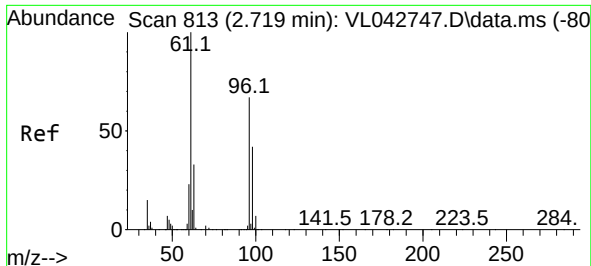
Ion Ratio Lower Upper

84 100

56 124.4 97.5 146.3

41 85.9 67.2 100.8

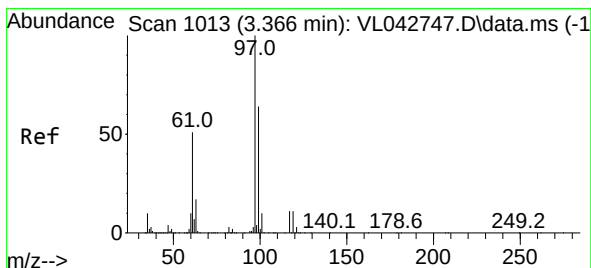
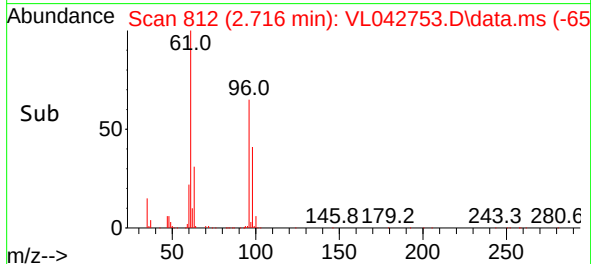
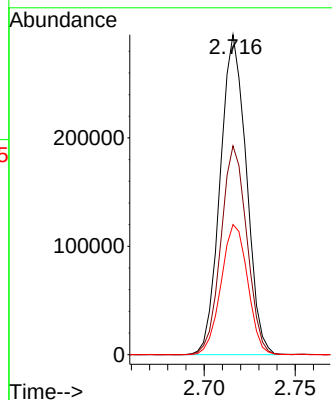
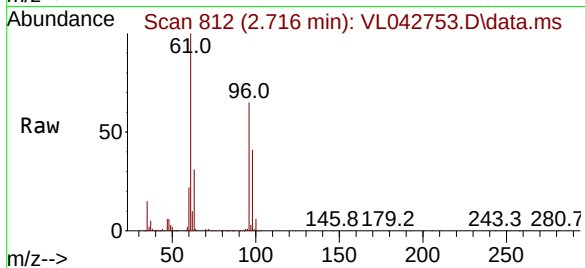




#31
 cis-1,2-Dichloroethene
 Concen: 14.192 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

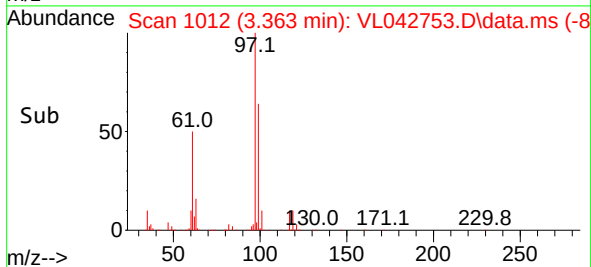
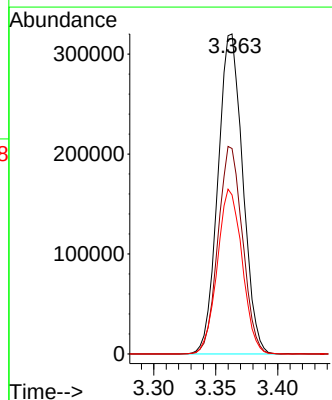
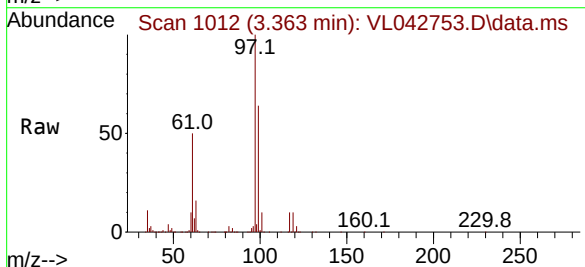
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

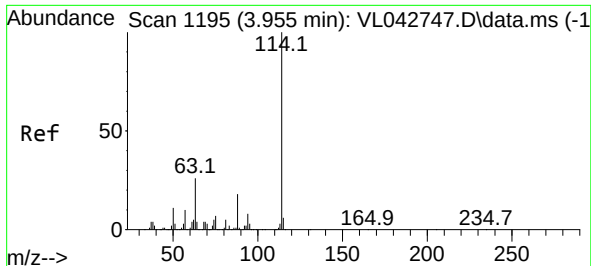
Tgt Ion: 61 Resp: 293947
 Ion Ratio Lower Upper
 61 100
 96 65.3 53.5 80.3
 98 40.7 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 13.796 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 97 Resp: 447592
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.6
 61 51.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

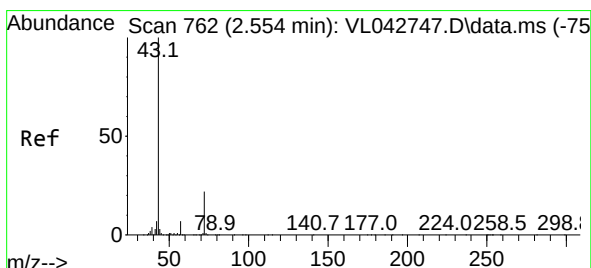
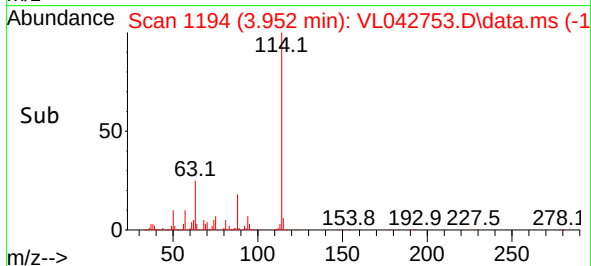
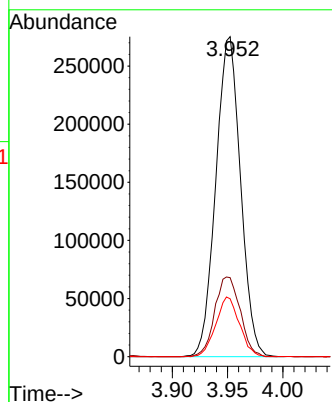
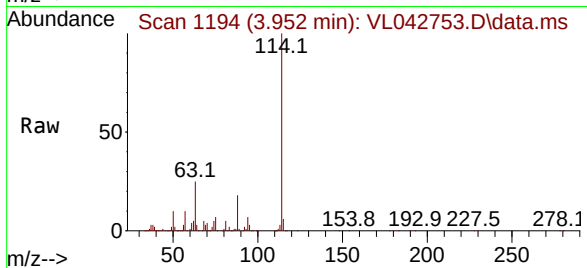
Tgt Ion:114 Resp: 427438

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 17.9 14.0 21.0



#34

2-Butanone

Concen: 14.297 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042753.D

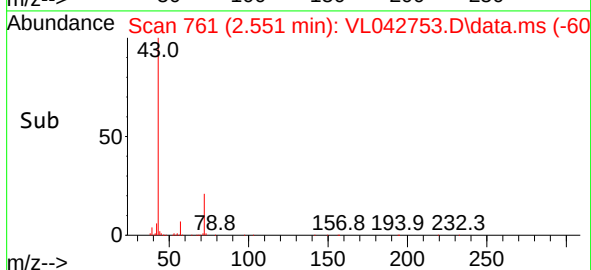
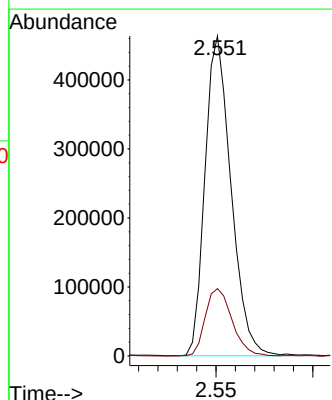
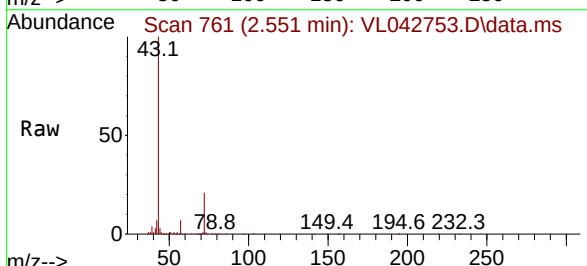
Acq: 23 Jul 2025 12:26

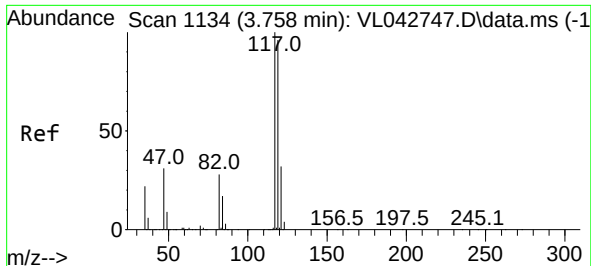
Tgt Ion: 43 Resp: 432873

Ion Ratio Lower Upper

43 100

72 21.8 17.4 26.0

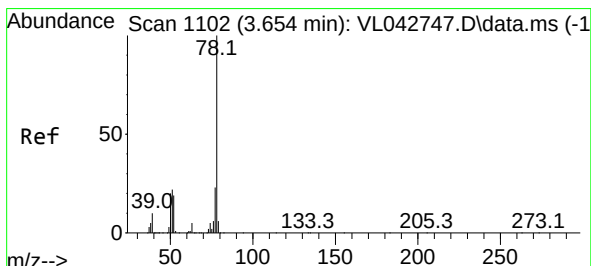
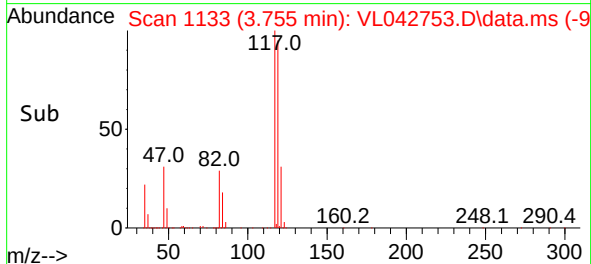
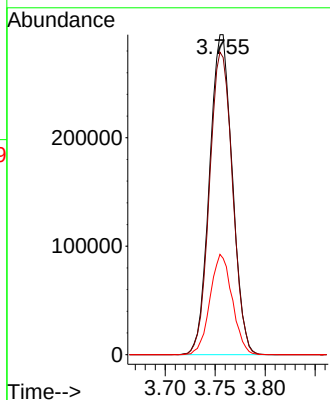
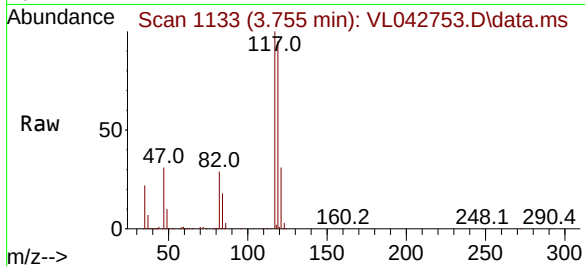




#35
Carbon Tetrachloride
Concen: 14.764 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

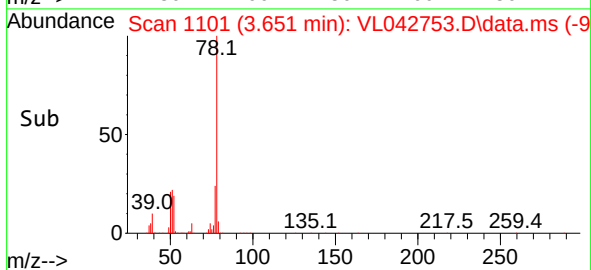
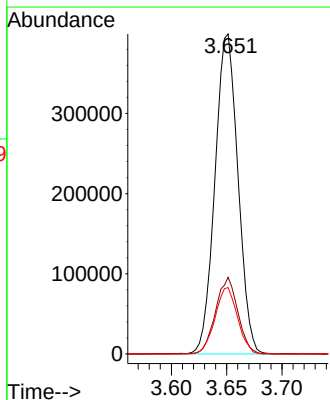
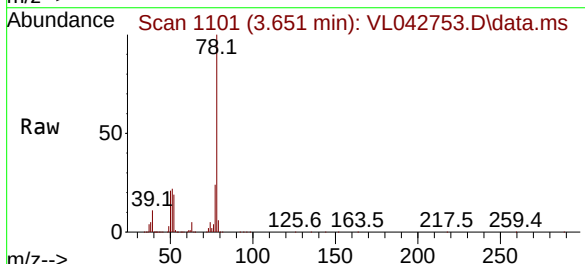
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

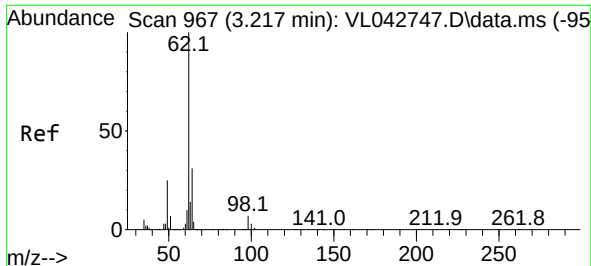
Tgt Ion:117 Resp: 468957
Ion Ratio Lower Upper
117 100
119 94.6 77.1 115.7
121 31.4 25.5 38.3



#36
Benzene
Concen: 14.247 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 78 Resp: 577153
Ion Ratio Lower Upper
78 100
77 23.9 18.5 27.7
50 20.7 16.2 24.2





#37

1,2-Dichloroethane

Concen: 14.533 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

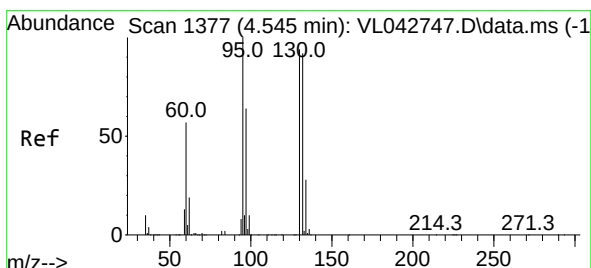
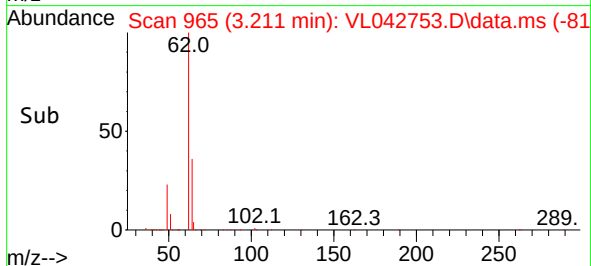
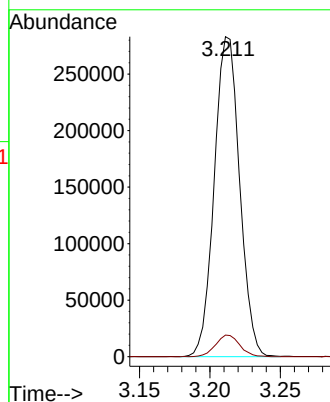
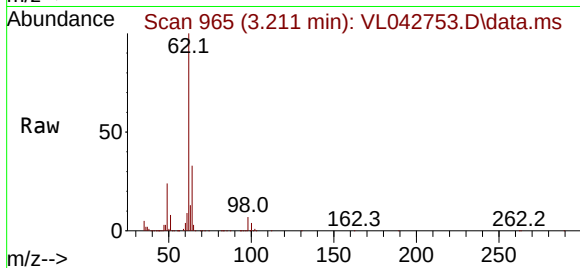
VSTDIC015

Tgt Ion: 62 Resp: 354637

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 13.416 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:130 Resp: 262041

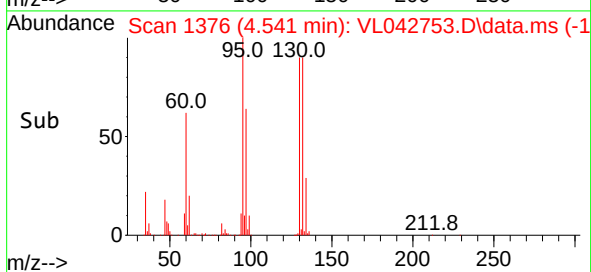
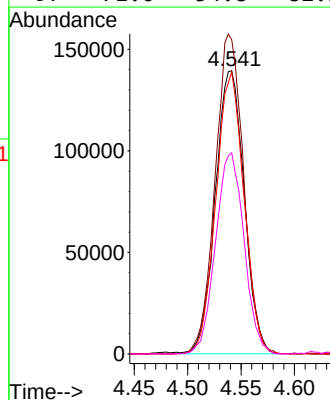
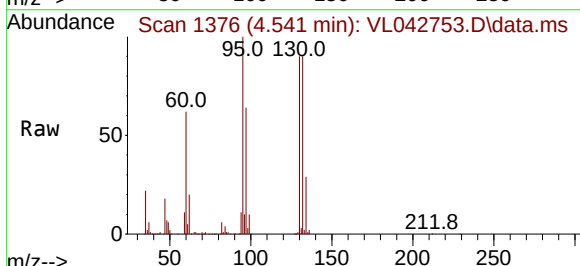
Ion Ratio Lower Upper

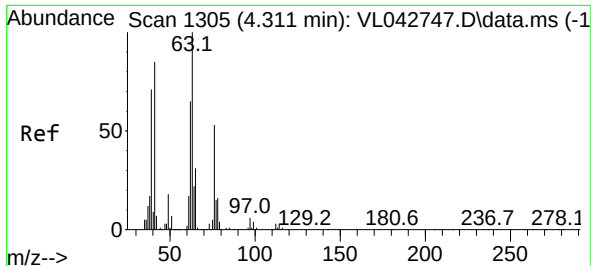
130 100

95 110.8 85.4 128.2

132 99.5 78.2 117.2

97 71.0 54.8 82.2





#39

1,2-Dichloropropane

Concen: 14.150 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

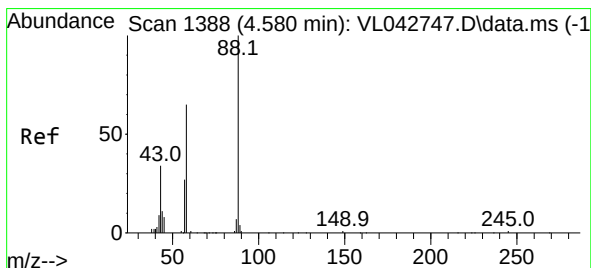
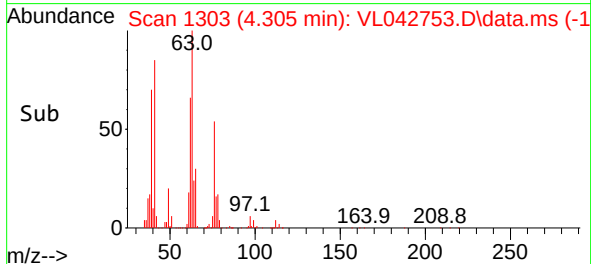
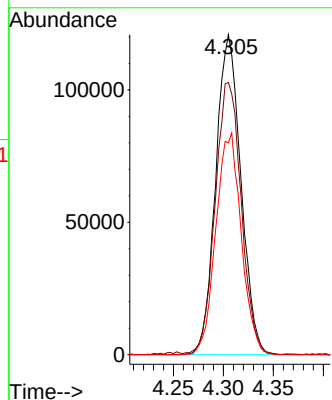
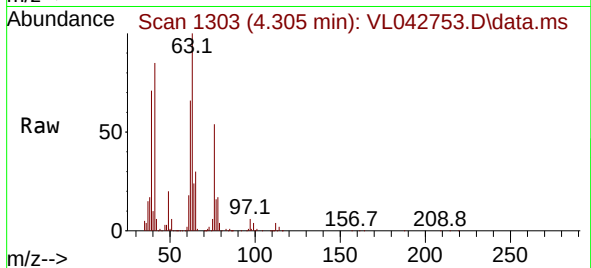
Tgt Ion: 63 Resp: 211594

Ion Ratio Lower Upper

63 100

41 85.0 68.2 102.4

62 66.2 52.0 78.0



#40

1,4-Dioxane

Concen: 13.926 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. -0.013 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion: 88 Resp: 98196

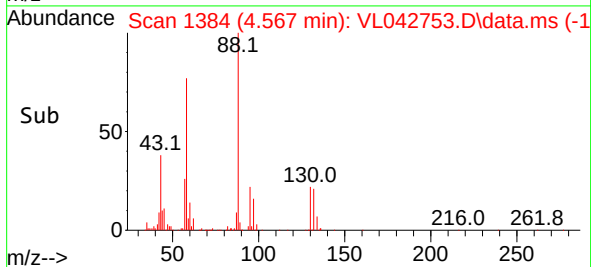
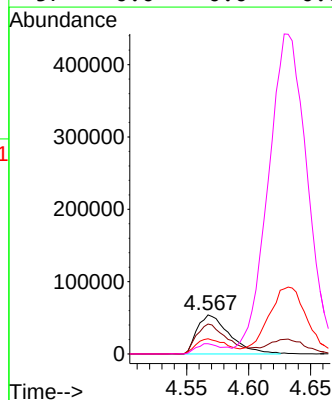
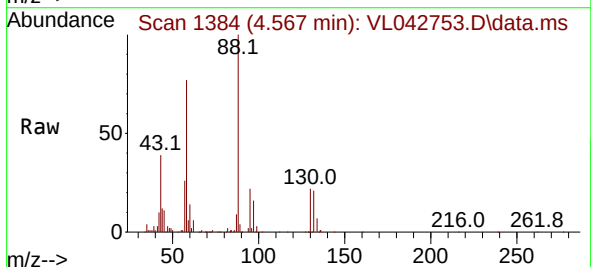
Ion Ratio Lower Upper

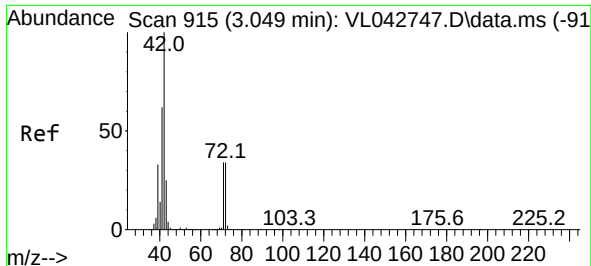
88 100

58 71.9 58.8 88.2

43 35.8 28.9 43.3

57 0.0 0.0 0.0

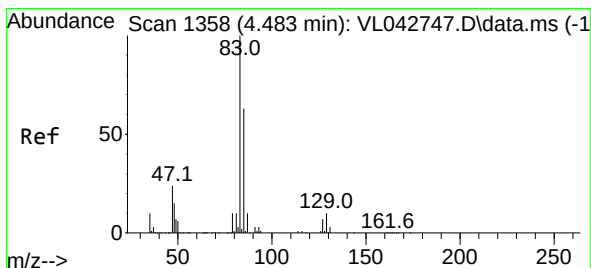
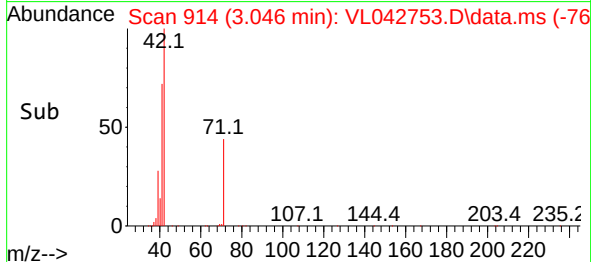
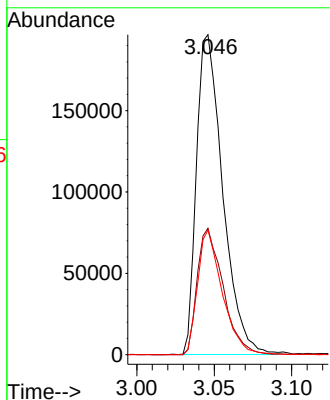
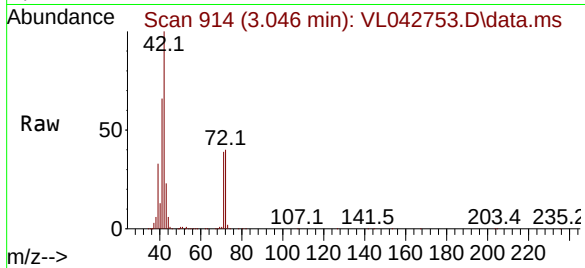




#41
Tetrahydrofuran
Concen: 15.278 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

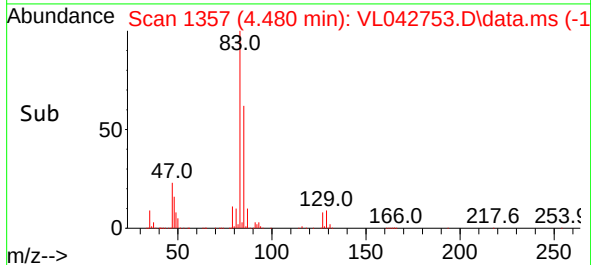
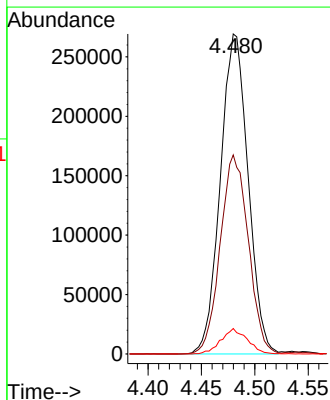
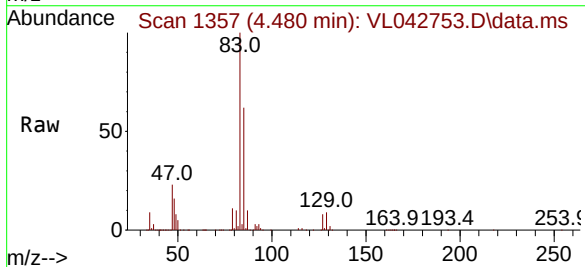
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

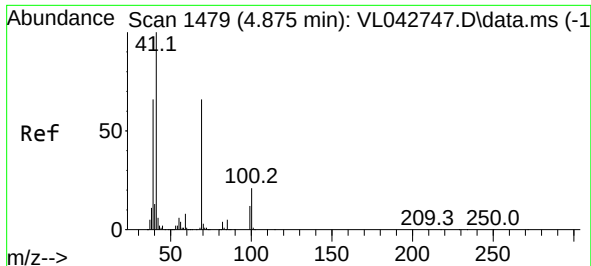
Tgt Ion: 42 Resp: 232393
Ion Ratio Lower Upper
42 100
72 39.2 30.9 46.3
71 36.6 28.6 43.0



#42
Bromodichloromethane
Concen: 15.303 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 83 Resp: 486831
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.0 5.4 8.2

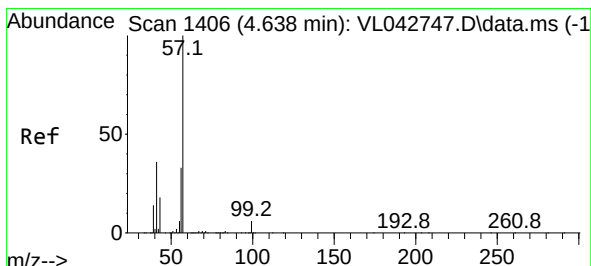
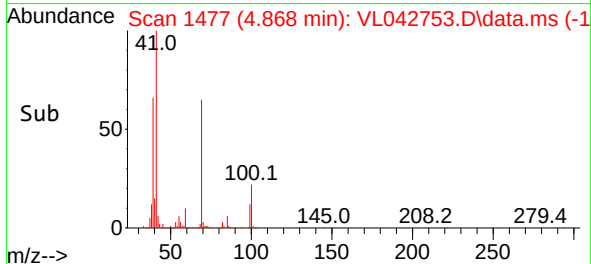
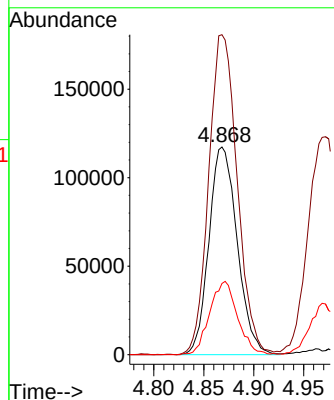
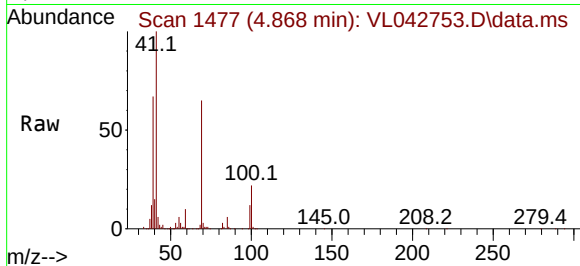




#43
Methyl Methacrylate
Concen: 16.059 ppbv
RT: 4.868 min Scan# 1479
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

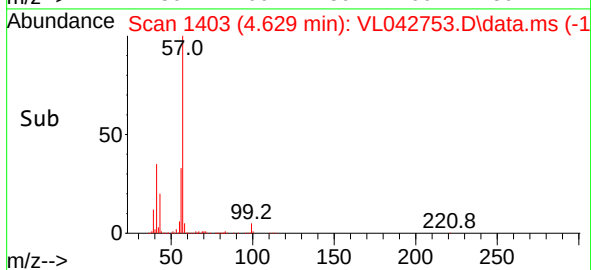
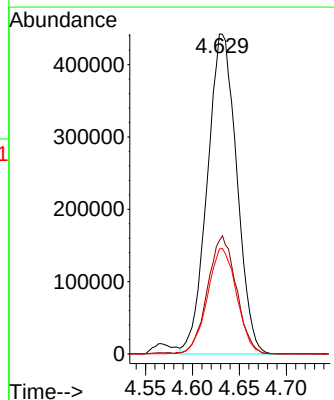
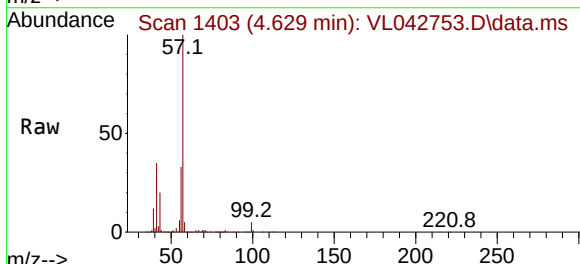
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

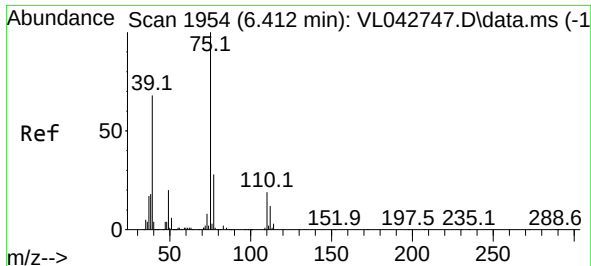
Tgt Ion: 69 Resp: 231227
Ion Ratio Lower Upper
69 100
41 155.0 125.7 188.5
100 34.8 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 14.598 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 963867
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.9 25.8 38.6

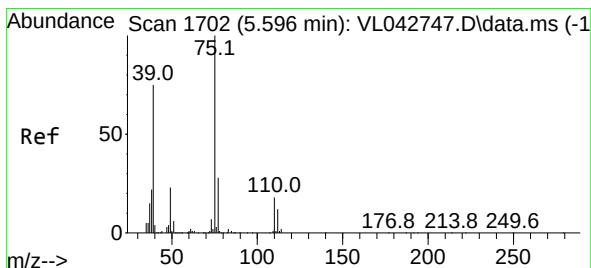
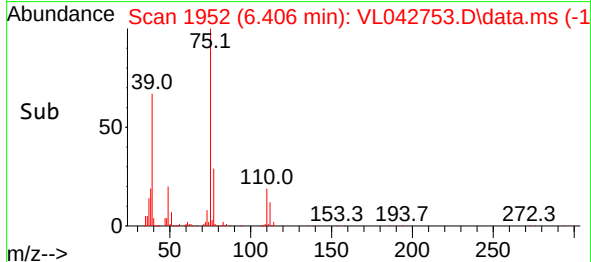
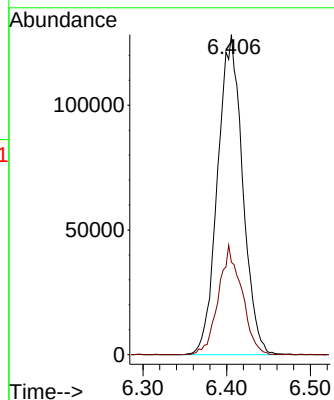
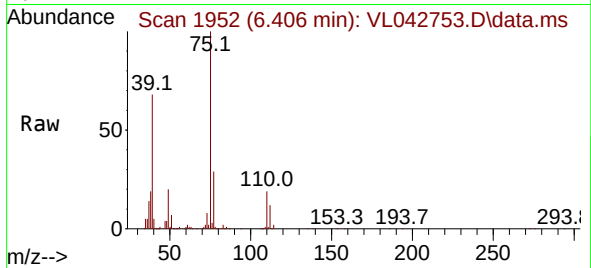




#45
t-1,3-Dichloropropene
Concen: 16.478 ppbv
RT: 6.406 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

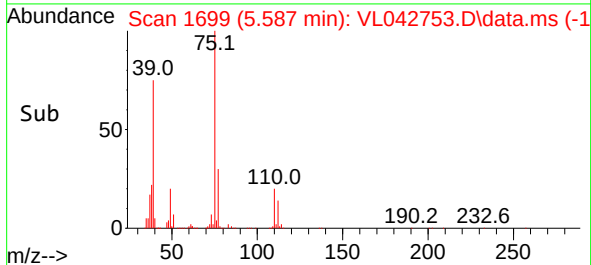
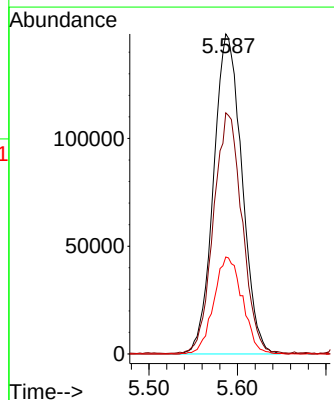
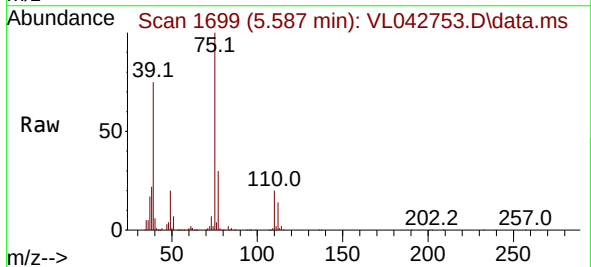
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

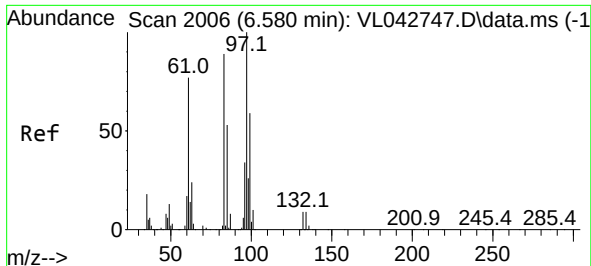
Tgt Ion: 75 Resp: 266194
Ion Ratio Lower Upper
75 100
77 28.9 22.4 33.6



#46
cis-1,3-Dichloropropene
Concen: 16.115 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 75 Resp: 329850
Ion Ratio Lower Upper
75 100
39 74.8 60.2 90.2
77 30.2 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 14.335 ppbv

RT: 6.567 min Scan# 2006

Delta R.T. -0.013 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 228492

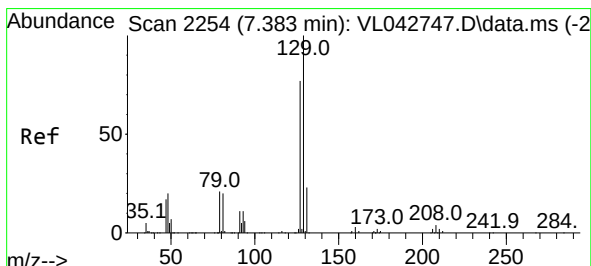
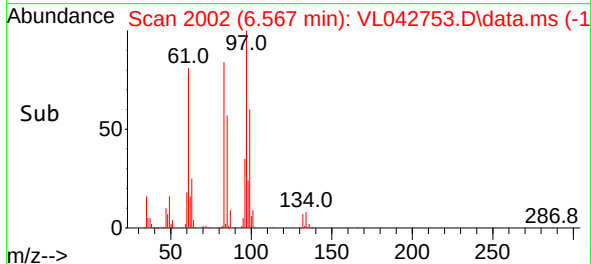
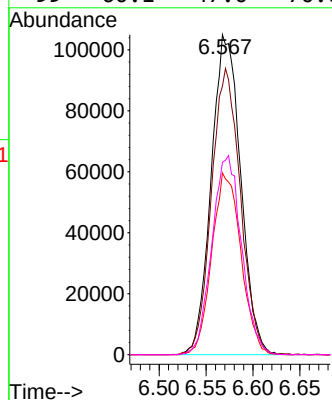
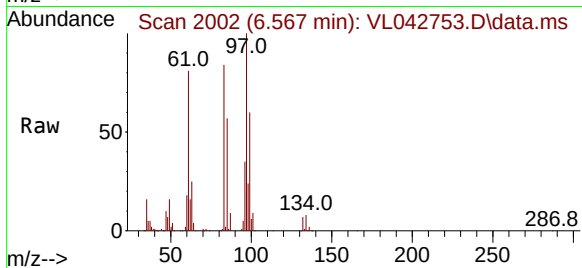
Ion Ratio Lower Upper

97 100

83 83.7 71.1 106.7

85 56.7 43.0 64.4

99 60.1 47.0 70.6



#48

Dibromochloromethane

Concen: 15.695 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042753.D

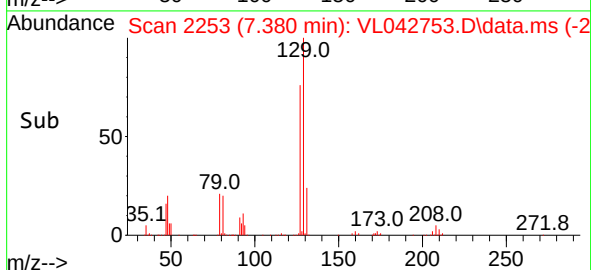
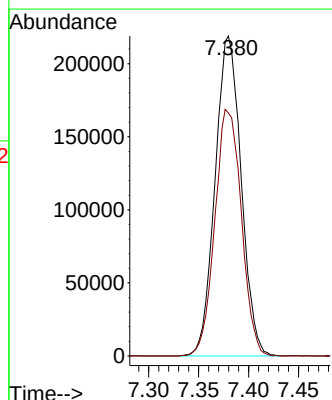
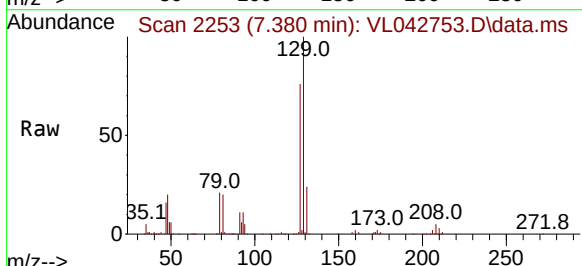
Acq: 23 Jul 2025 12:26

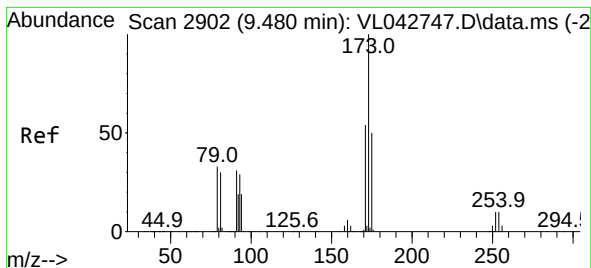
Tgt Ion: 129 Resp: 397179

Ion Ratio Lower Upper

129 100

127 78.5 38.7 116.1





#49

Bromoform

Concen: 15.955 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

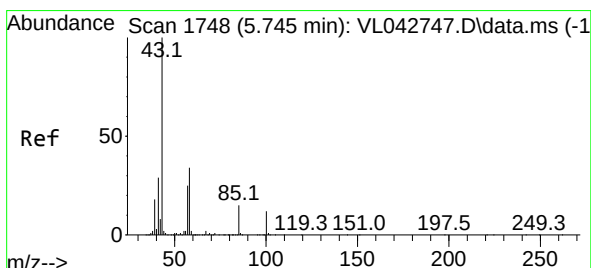
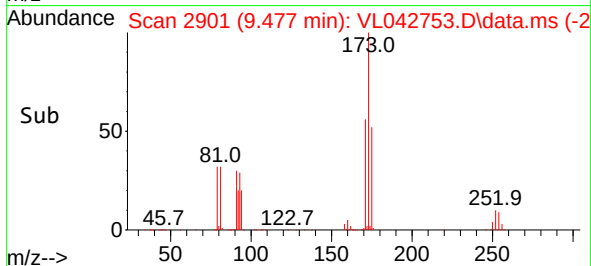
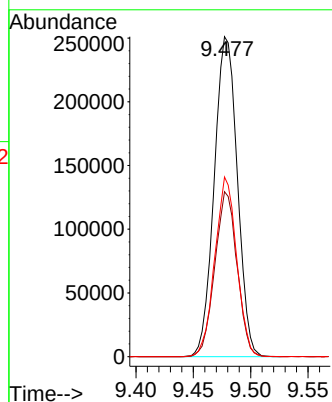
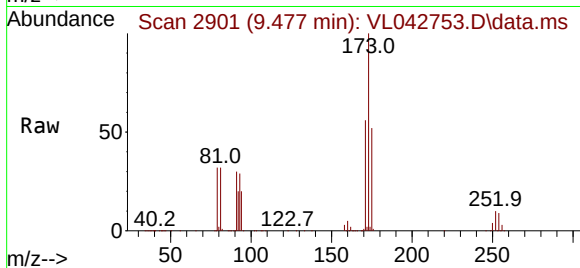
Tgt Ion:173 Resp: 352050

Ion Ratio Lower Upper

173 100

175 49.6 38.4 57.6

171 53.1 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 15.427 ppbv

RT: 5.732 min Scan# 1744

Delta R.T. -0.013 min

Lab File: VL042753.D

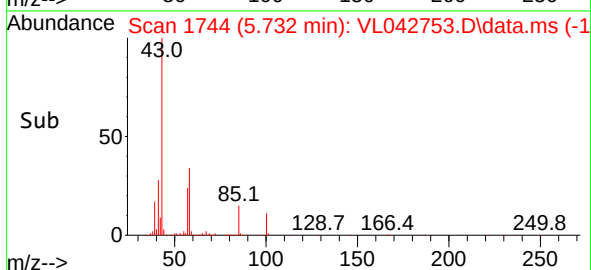
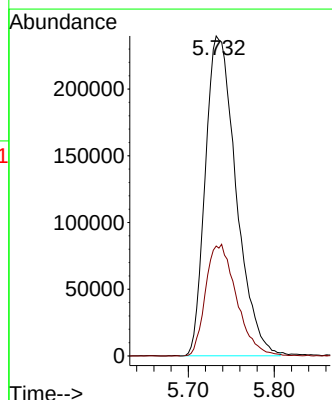
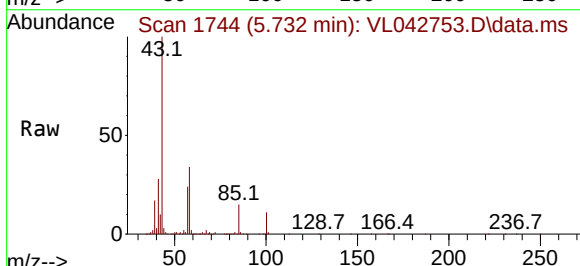
Acq: 23 Jul 2025 12:26

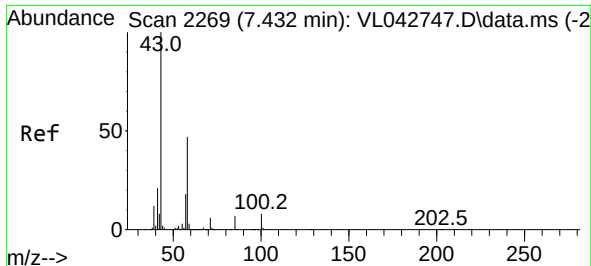
Tgt Ion: 43 Resp: 594973

Ion Ratio Lower Upper

43 100

58 35.1 27.8 41.8

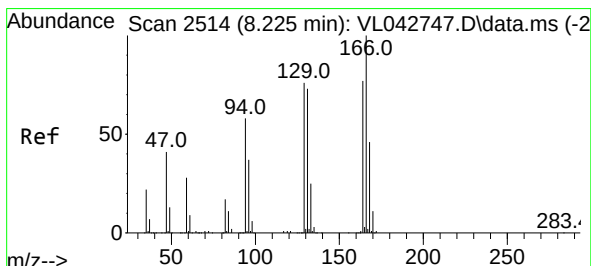
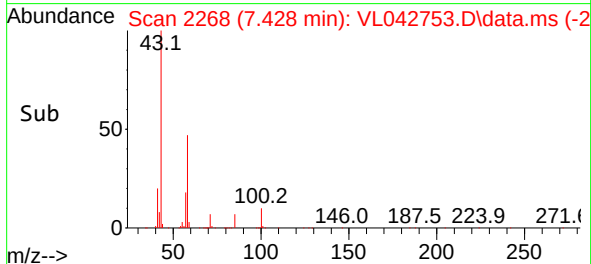
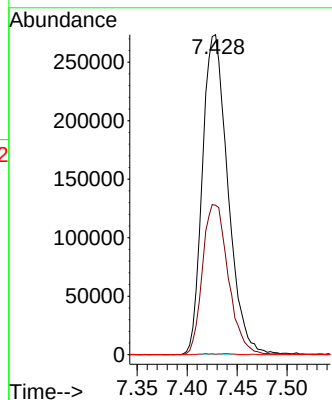
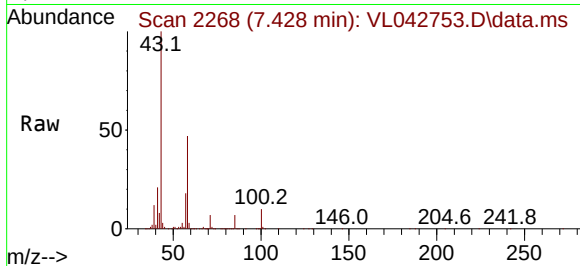




#51
2-Hexanone
Concen: 16.467 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

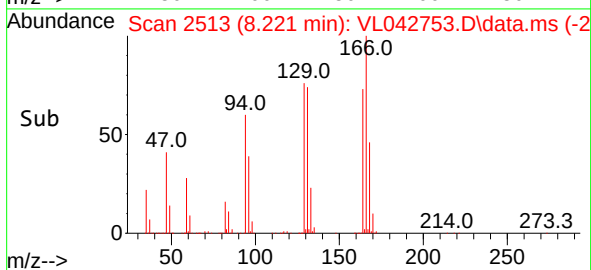
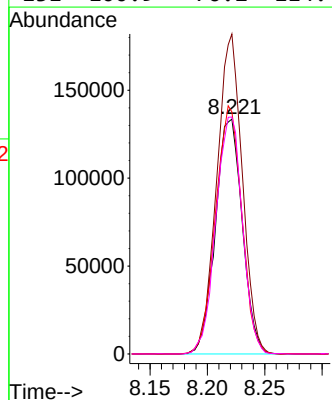
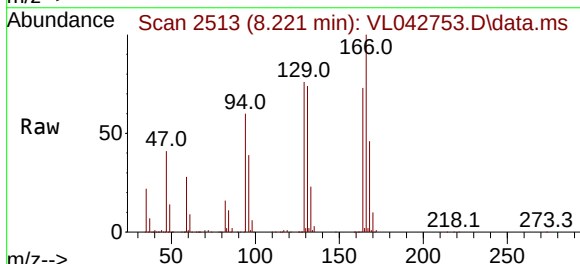
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

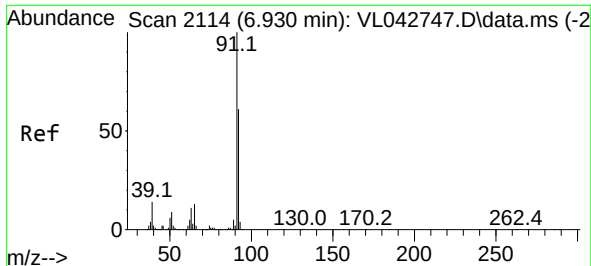
Tgt Ion: 43 Resp: 485325
Ion Ratio Lower Upper
43 100
58 47.7 38.0 57.0
98 0.4 0.2 0.4#



#52
Tetrachloroethene
Concen: 12.899 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 164 Resp: 217184
Ion Ratio Lower Upper
164 100
166 136.3 104.0 156.0
129 103.1 79.2 118.8
131 100.9 76.2 114.4

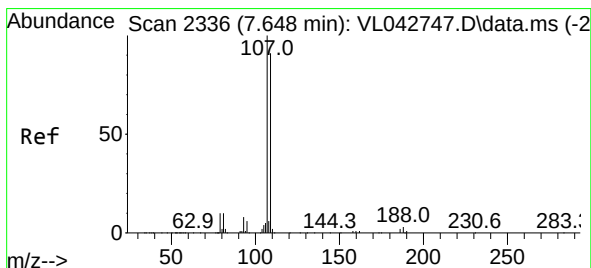
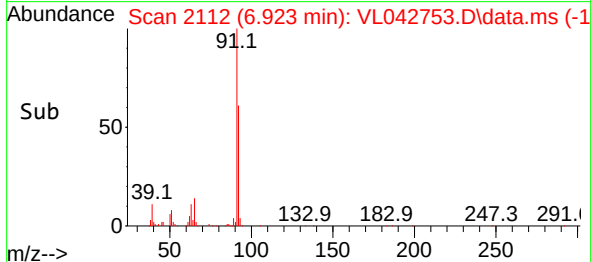
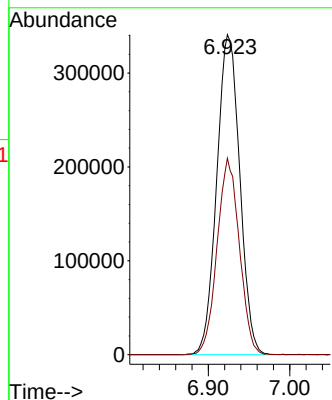
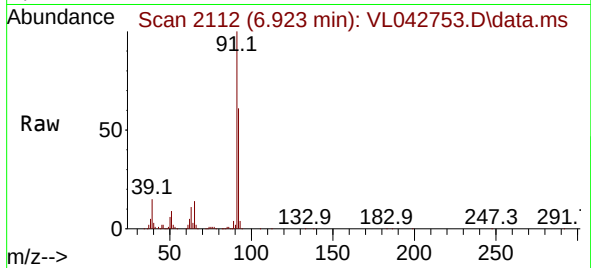




#53
Toluene
Concen: 15.405 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

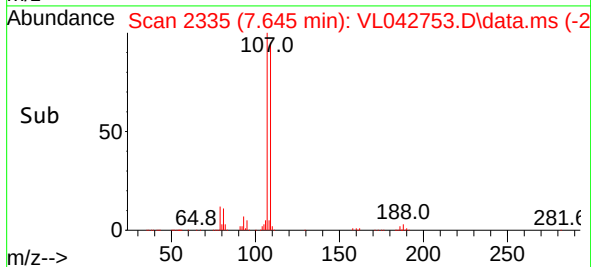
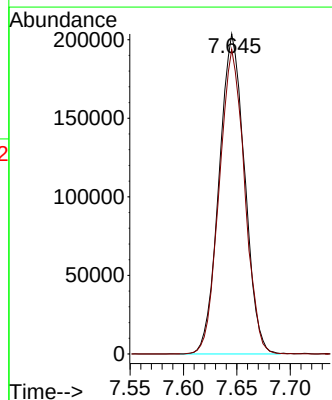
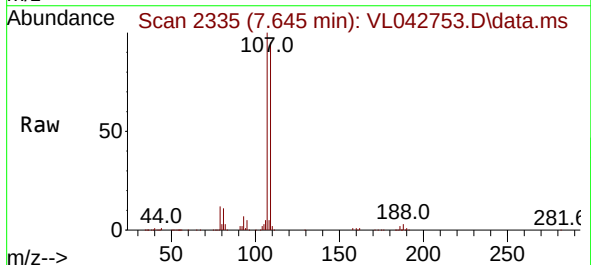
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

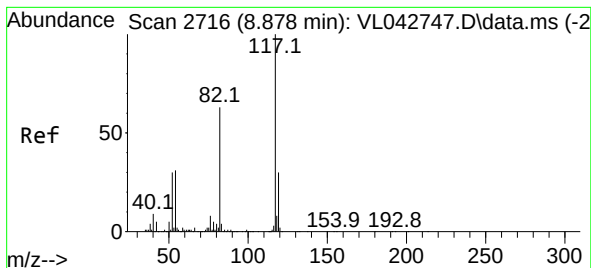
Tgt Ion: 91 Resp: 670142
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0



#54
1,2-Dibromoethane
Concen: 15.019 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 107 Resp: 338867
Ion Ratio Lower Upper
107 100
109 95.1 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2716

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

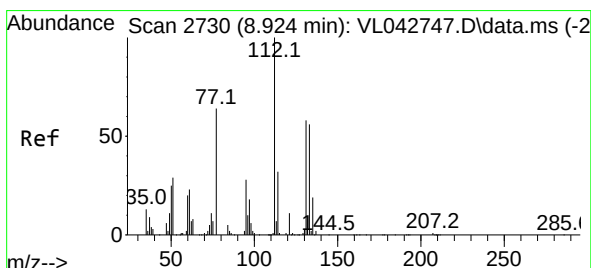
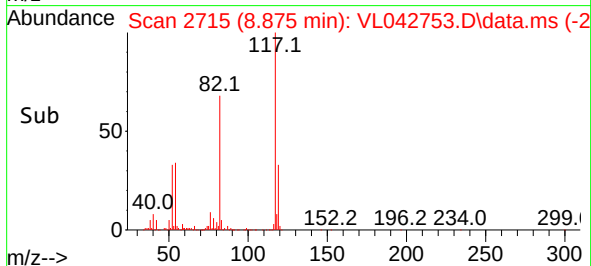
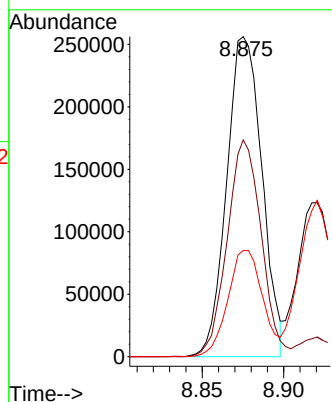
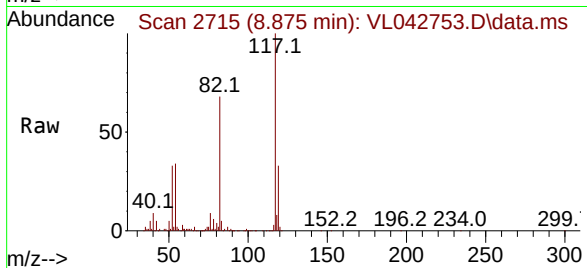
Tgt Ion:117 Resp: 385223

Ion Ratio Lower Upper

117 100

82 71.0 53.3 79.9

119 32.3 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 14.648 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

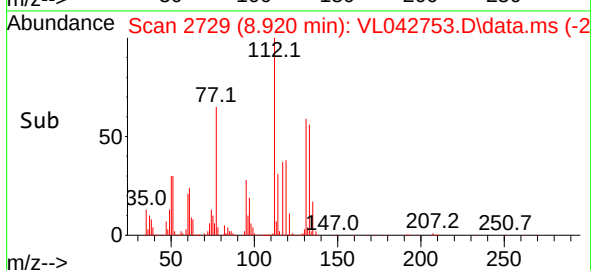
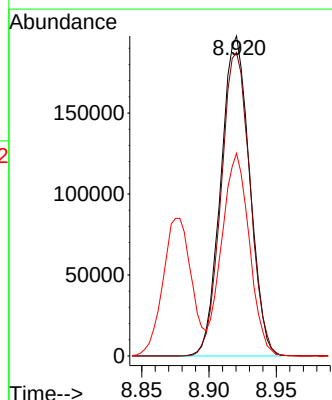
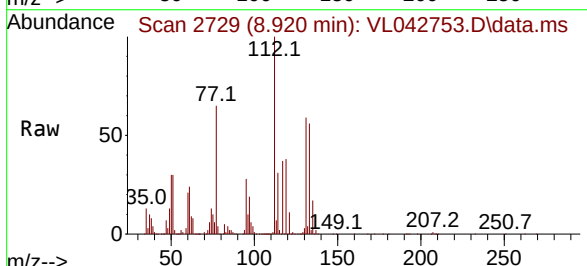
Tgt Ion:131 Resp: 293384

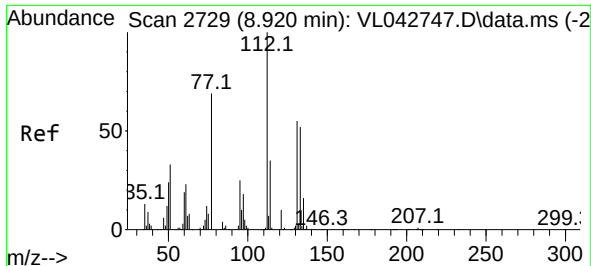
Ion Ratio Lower Upper

131 100

133 95.4 76.8 115.2

119 60.7 49.7 74.5





#57

Chlorobenzene

Concen: 14.025 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

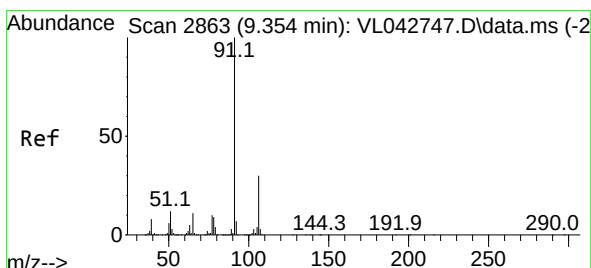
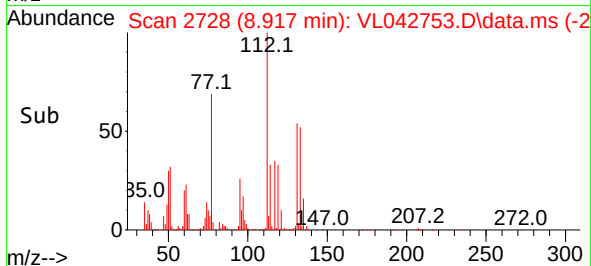
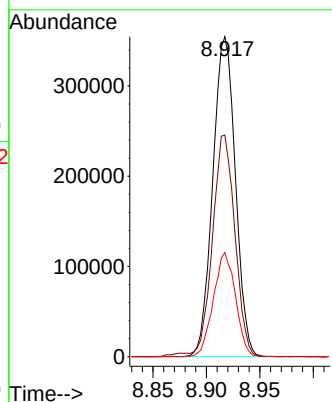
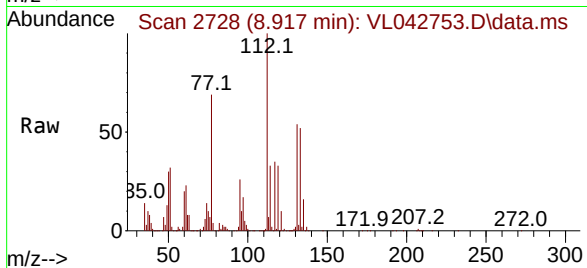
Tgt Ion:112 Resp: 522894

Ion Ratio Lower Upper

112 100

77 69.2 56.4 84.6

114 32.6 31.2 38.2



#58

Ethyl Benzene

Concen: 15.454 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.003 min

Lab File: VL042753.D

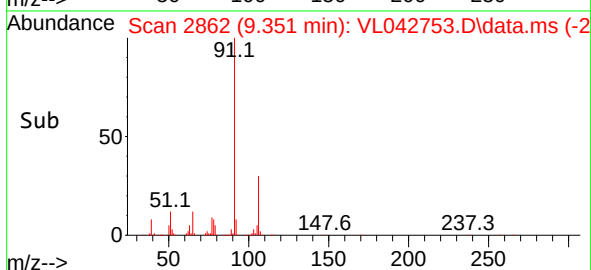
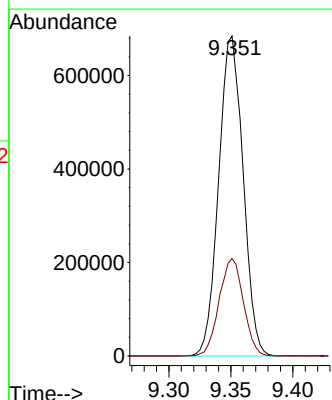
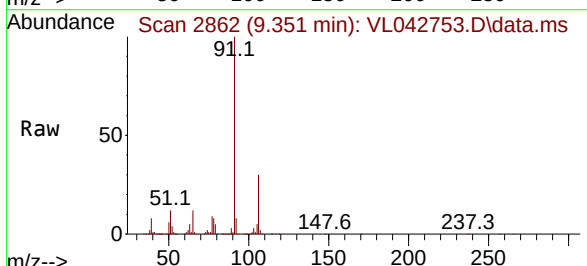
Acq: 23 Jul 2025 12:26

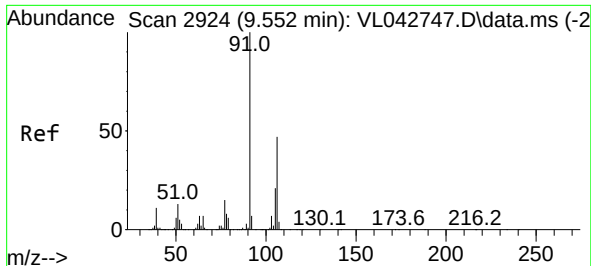
Tgt Ion: 91 Resp: 940159

Ion Ratio Lower Upper

91 100

106 30.5 23.8 35.6





#59

m/p-Xylene

Concen: 15.756 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

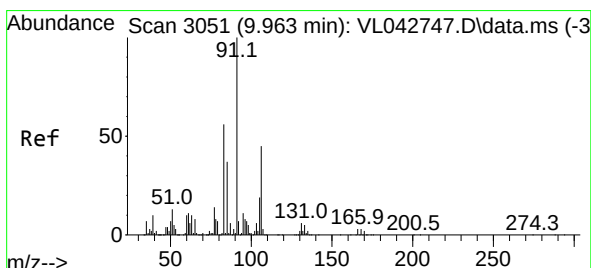
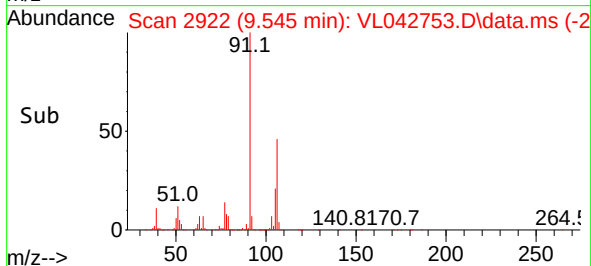
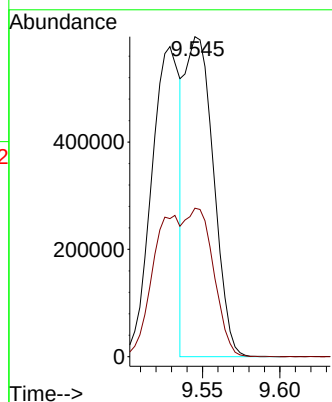
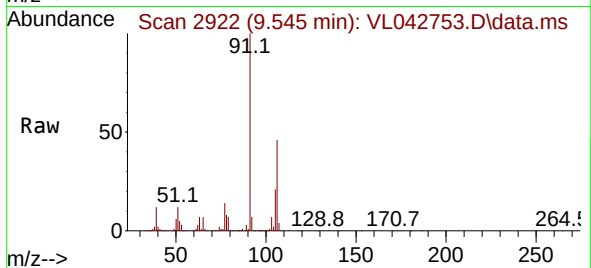
VSTDIC015

Tgt Ion: 91 Resp: 766284

Ion Ratio Lower Upper

91 100

106 91.0 37.4 56.2#



#60

o-Xylene

Concen: 15.030 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042753.D

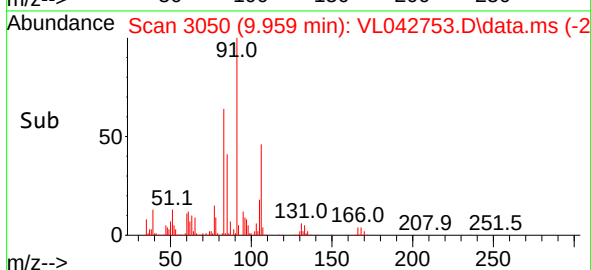
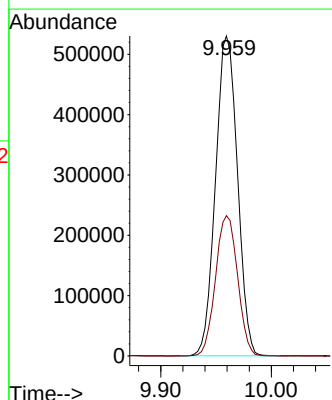
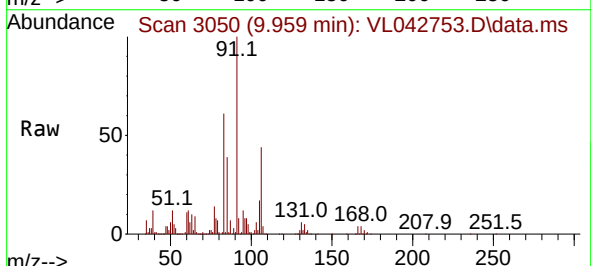
Acq: 23 Jul 2025 12:26

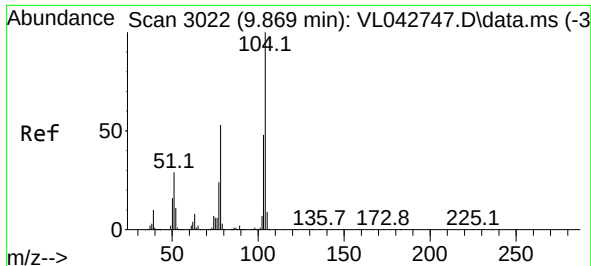
Tgt Ion: 91 Resp: 730161

Ion Ratio Lower Upper

91 100

106 44.1 22.0 66.0





#61

Styrene

Concen: 16.805 ppbv

RT: 9.866 min Scan# 3022

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

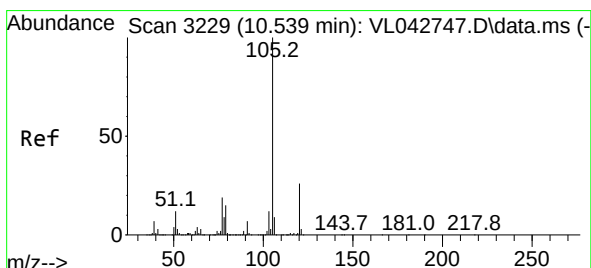
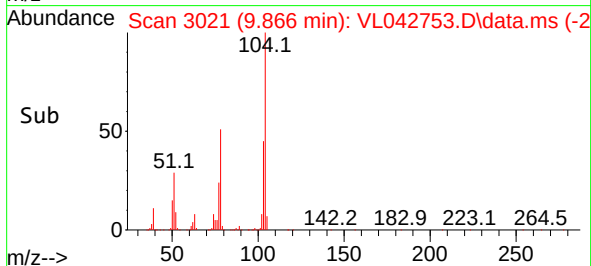
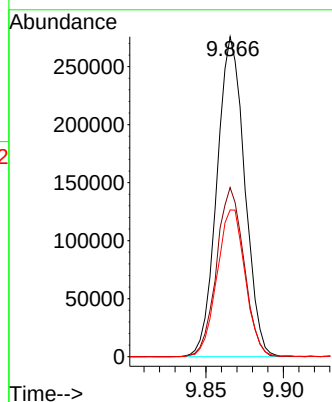
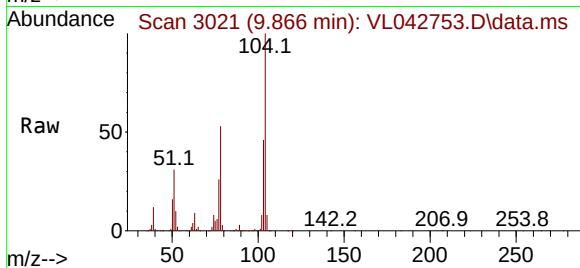
Tgt Ion:104 Resp: 343429

Ion Ratio Lower Upper

104 100

78 52.3 41.5 62.3

103 46.9 37.5 56.3



#62

Isopropylbenzene

Concen: 15.049 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042753.D

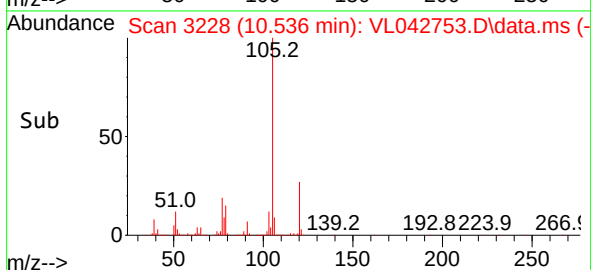
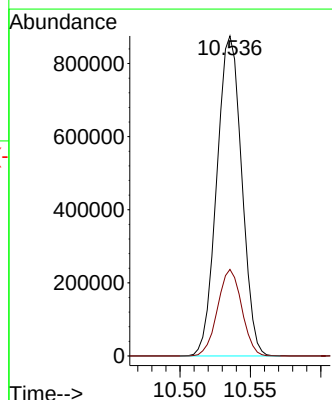
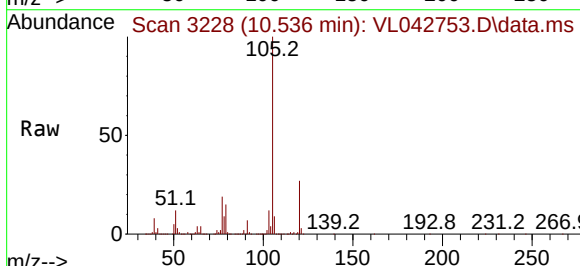
Acq: 23 Jul 2025 12:26

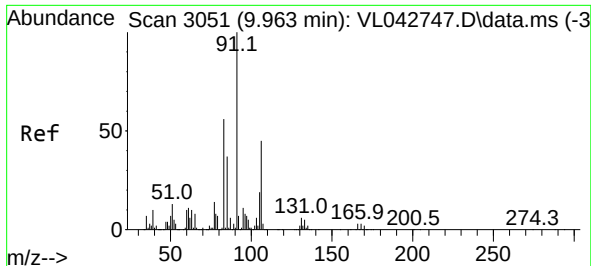
Tgt Ion:105 Resp: 1078393

Ion Ratio Lower Upper

105 100

120 26.2 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 13.261 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

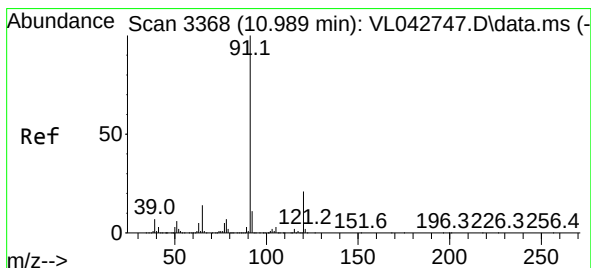
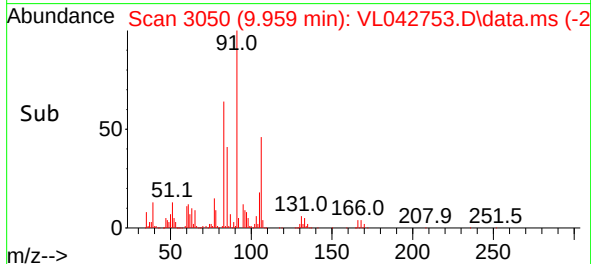
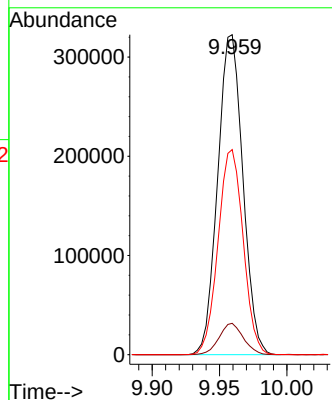
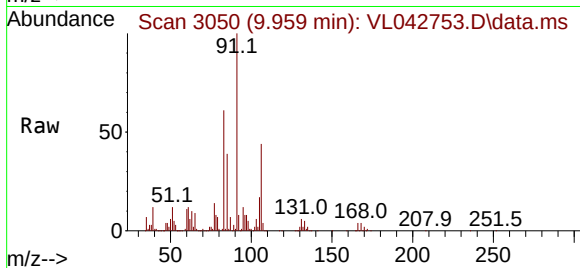
Tgt Ion: 83 Resp: 419734

Ion Ratio Lower Upper

83 100

131 9.5 5.0 15.0

85 63.8 32.6 97.7



#64

n-propylbenzene

Concen: 15.348 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042753.D

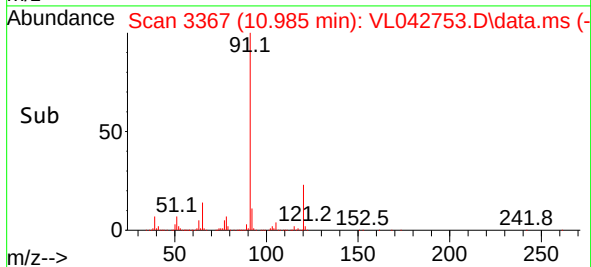
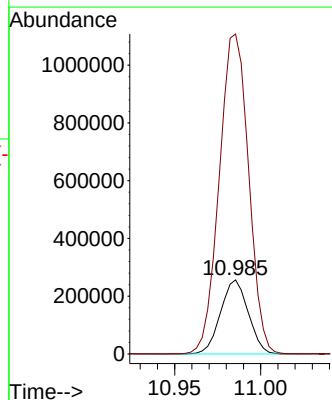
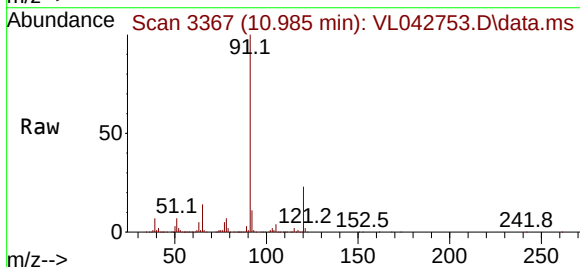
Acq: 23 Jul 2025 12:26

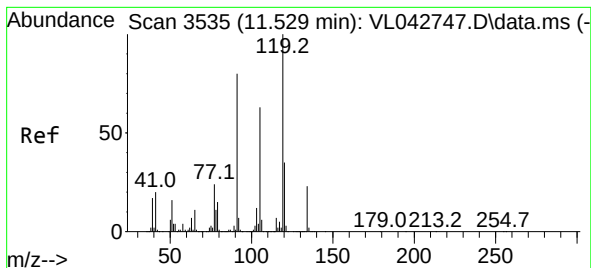
Tgt Ion: 120 Resp: 286724

Ion Ratio Lower Upper

120 100

91 458.1 372.7 559.1





#65

tert-Butylbenzene

Concen: 14.995 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

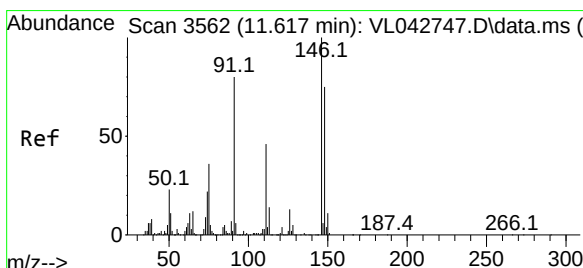
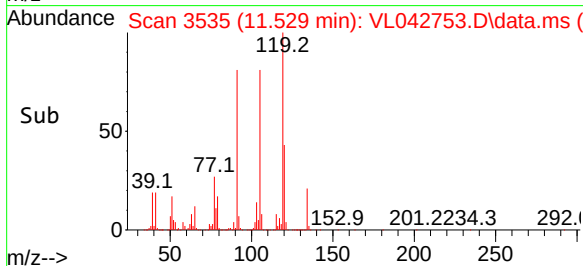
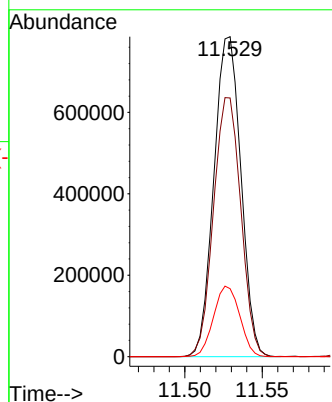
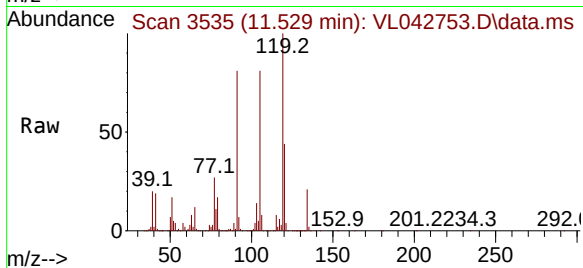
Tgt Ion:119 Resp: 954459

Ion Ratio Lower Upper

119 100

91 81.9 64.0 96.0

134 21.4 17.3 25.9



#66

Benzyl Chloride

Concen: 18.031 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

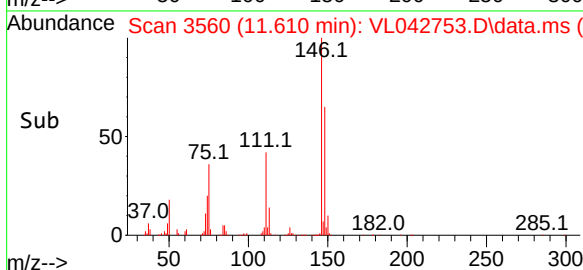
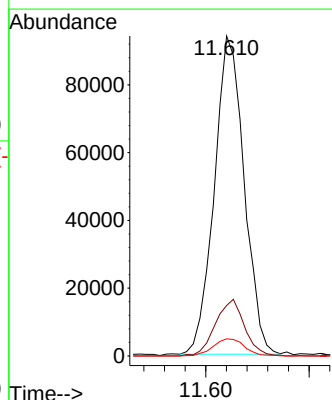
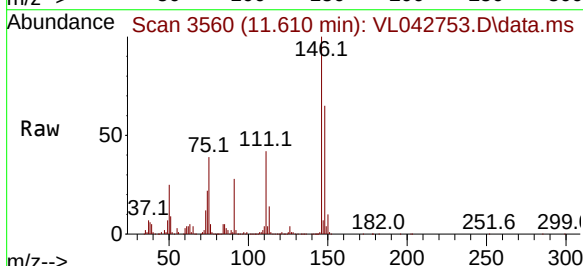
Tgt Ion: 91 Resp: 94218

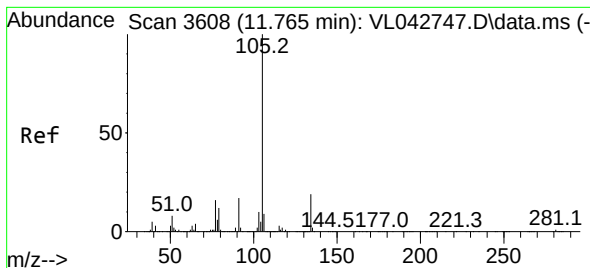
Ion Ratio Lower Upper

91 100

126 17.3 14.4 21.6

128 5.7 5.2 7.8

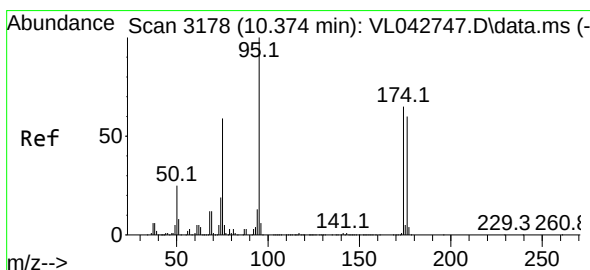
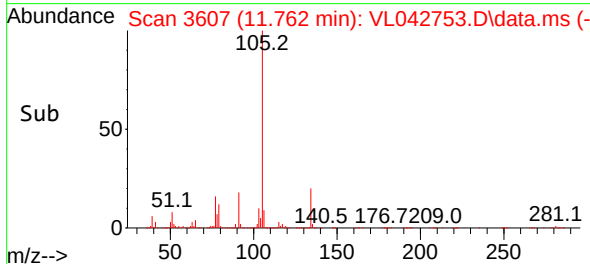
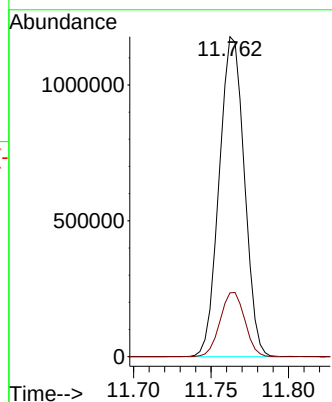
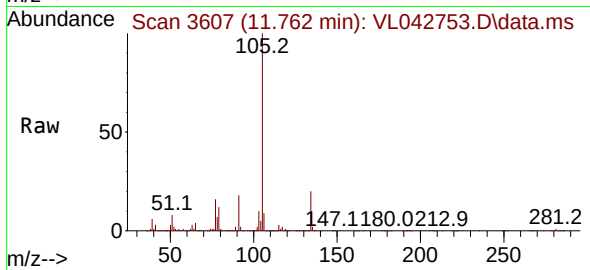




#67
 sec-Butylbenzene
 Concen: 14.662 ppbv
 RT: 11.762 min Scan# 3107
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

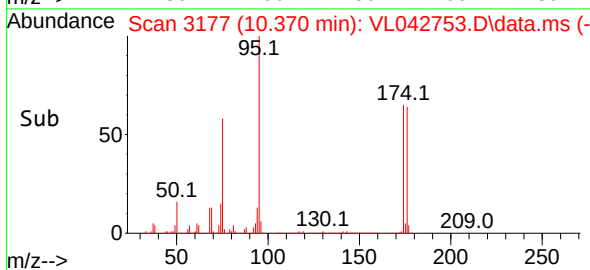
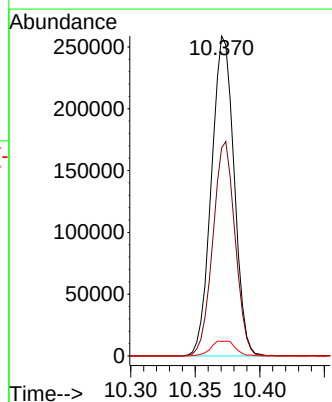
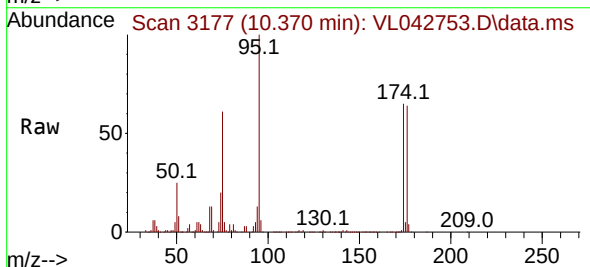
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

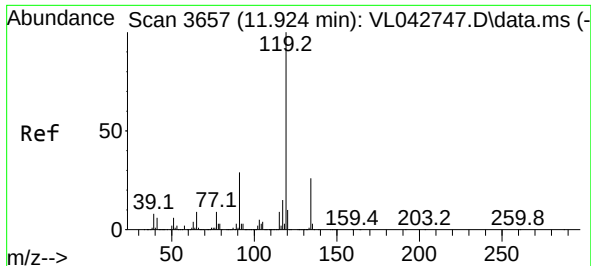
Tgt Ion:105 Resp: 1327393
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.335 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 95 Resp: 315293
 Ion Ratio Lower Upper
 95 100
 174 65.7 53.8 80.6
 175 5.0 4.0 6.0

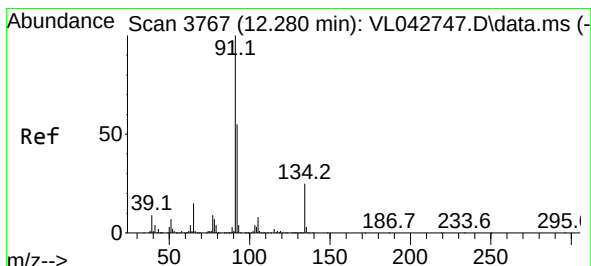
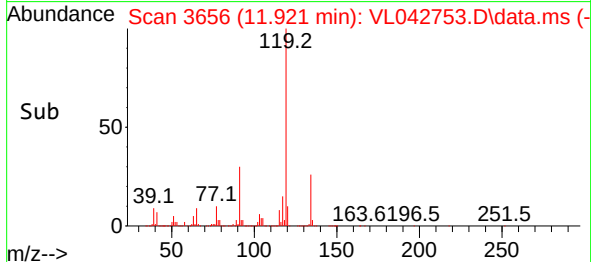
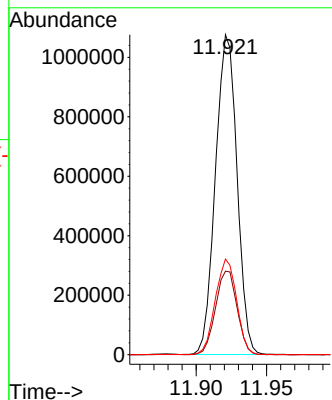
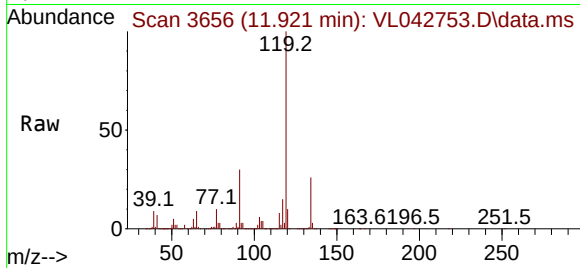




#69
p-Isopropyltoluene
Concen: 15.571 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

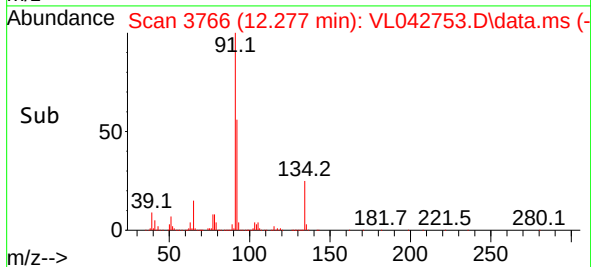
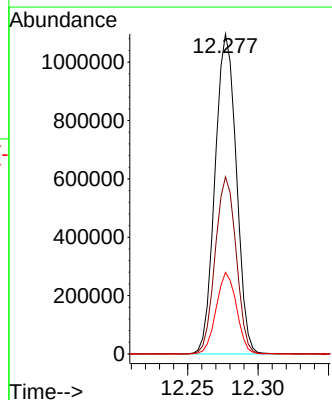
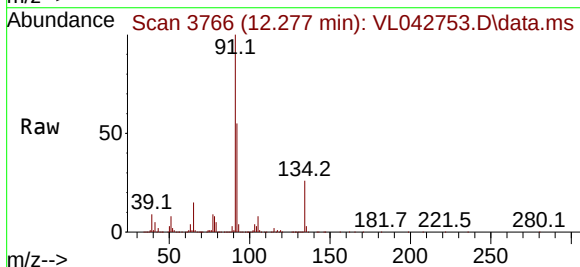
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

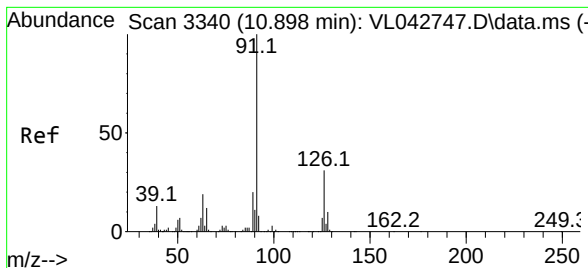
Tgt Ion:119 Resp: 1149418
Ion Ratio Lower Upper
119 100
134 26.3 20.6 31.0
91 29.6 23.2 34.8



#70
n-Butylbenzene
Concen: 16.159 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 1152207
Ion Ratio Lower Upper
91 100
92 54.6 43.4 65.2
134 24.5 19.6 29.4

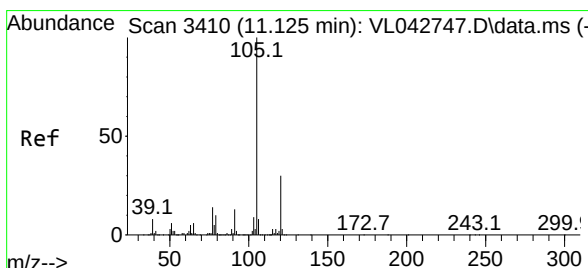
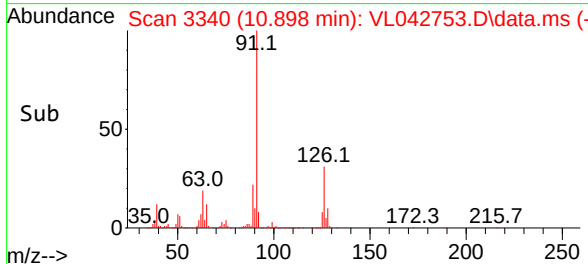
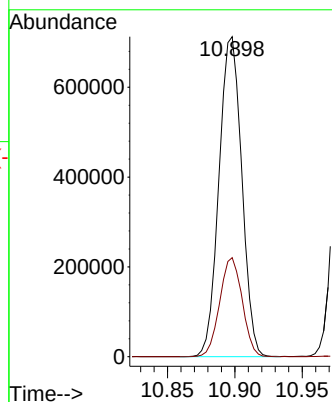
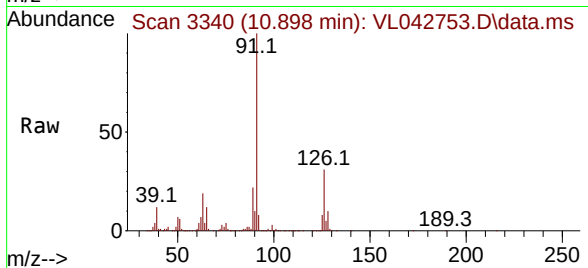




#71
2-Chlorotoluene
Concen: 15.257 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

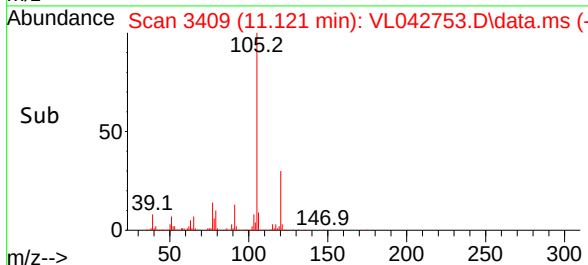
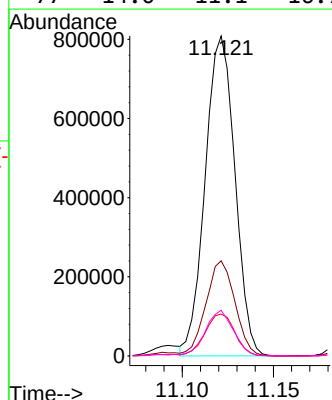
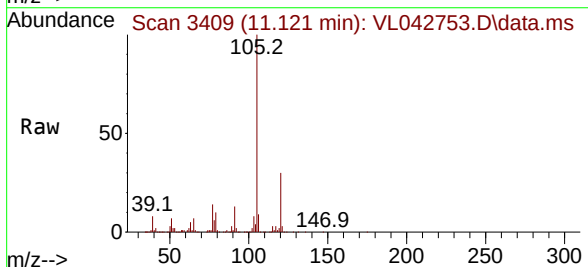
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

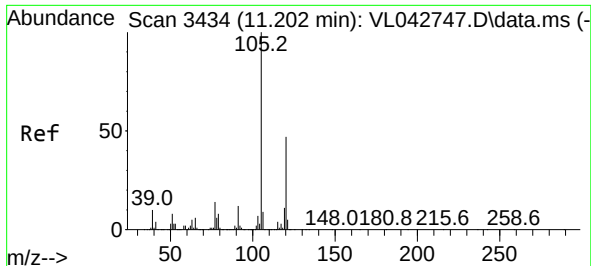
Tgt Ion: 91 Resp: 838335
Ion Ratio Lower Upper
91 100
126 30.5 12.0 48.2



#72
4-Ethyltoluene
Concen: 15.830 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 918453
Ion Ratio Lower Upper
105 100
120 30.1 24.4 36.6
91 13.5 10.6 15.8
77 14.0 11.1 16.7

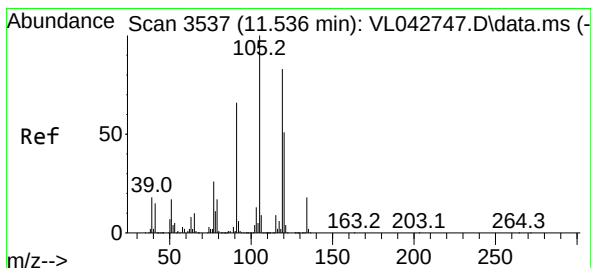
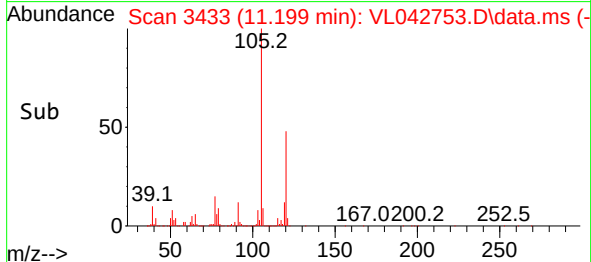
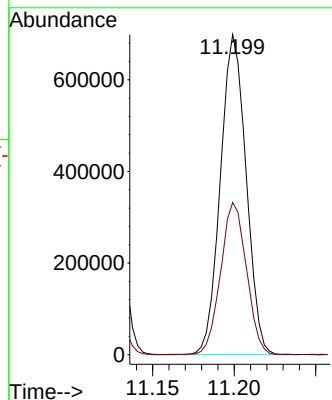
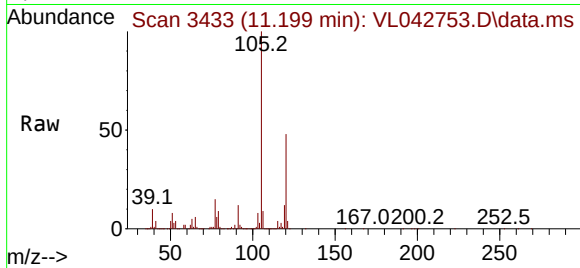




#73
 1,3,5-Trimethylbenzene
 Concen: 15.977 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

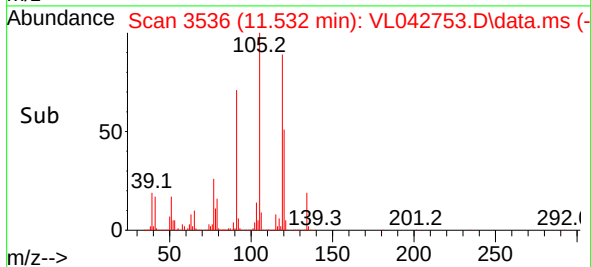
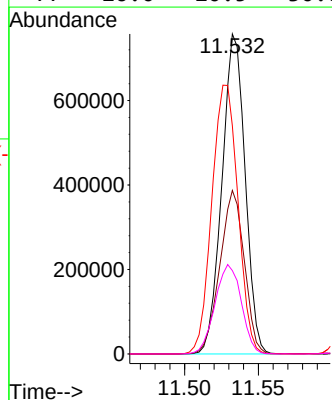
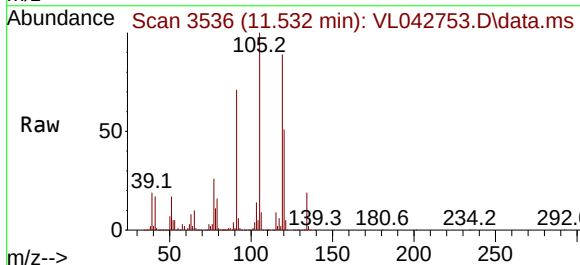
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

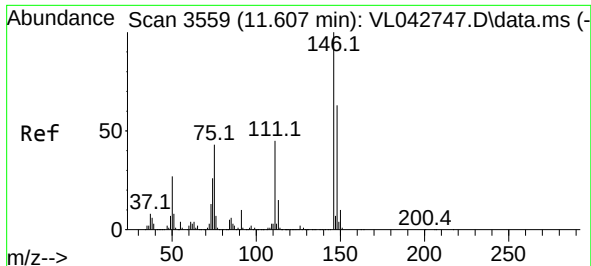
Tgt Ion:105 Resp: 763212
 Ion Ratio Lower Upper
 105 100
 120 47.5 37.8 56.8



#74
 1,2,4-Trimethylbenzene
 Concen: 15.873 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 827222
 Ion Ratio Lower Upper
 105 100
 120 51.1 40.8 61.2
 91 71.2 53.0 79.4
 77 26.0 20.5 30.7

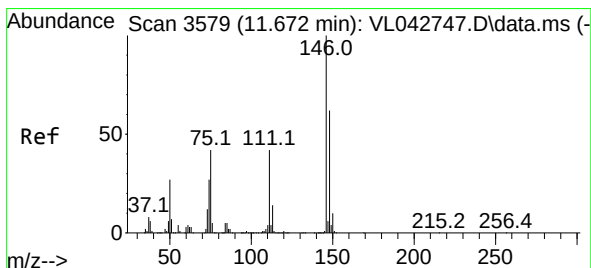
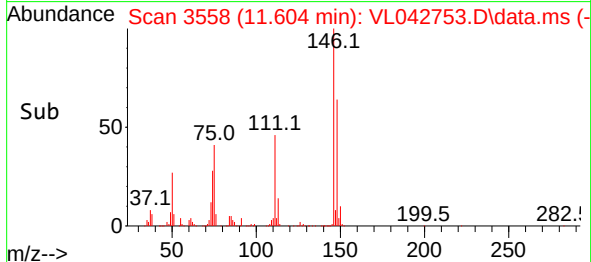
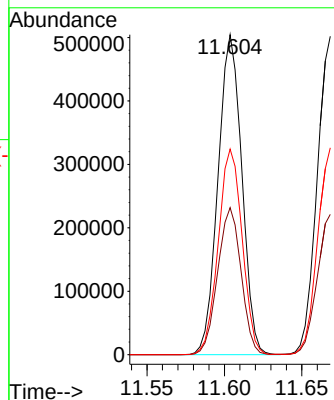
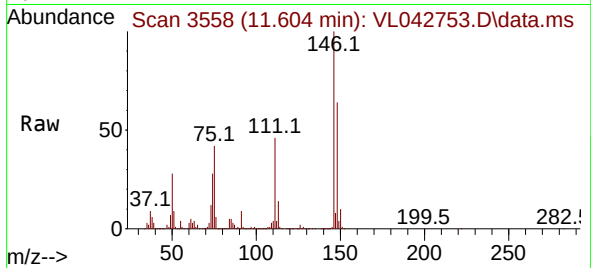




#75
1,3-Dichlorobenzene
Concen: 14.761 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

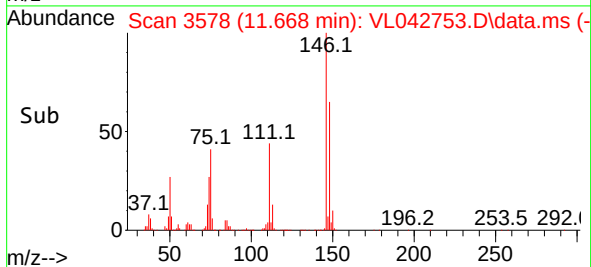
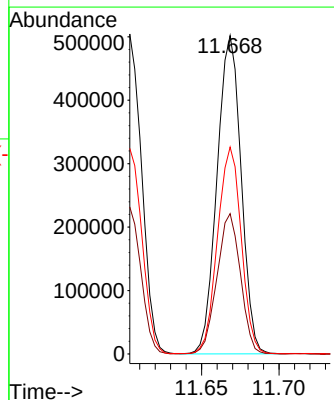
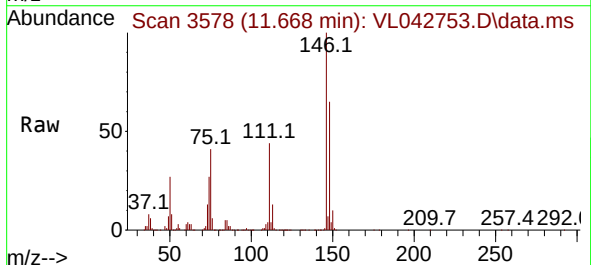
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

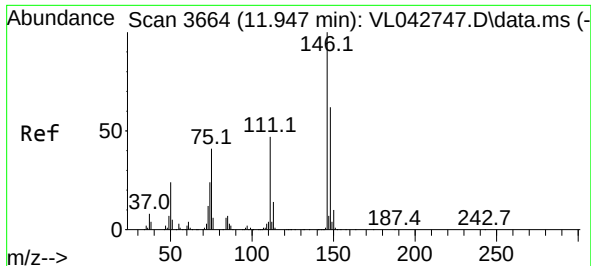
Tgt Ion:146 Resp: 539284
Ion Ratio Lower Upper
146 100
111 45.2 22.7 68.0
148 64.6 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 15.188 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:146 Resp: 542998
Ion Ratio Lower Upper
146 100
111 43.1 21.4 64.2
148 64.3 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 14.390 ppbv

RT: 11.943 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

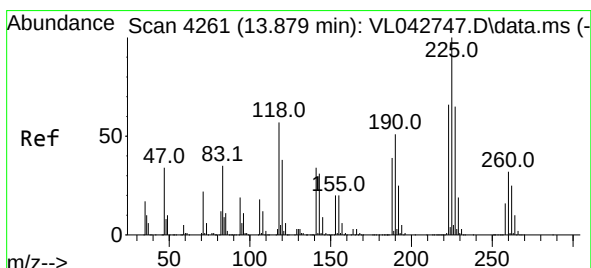
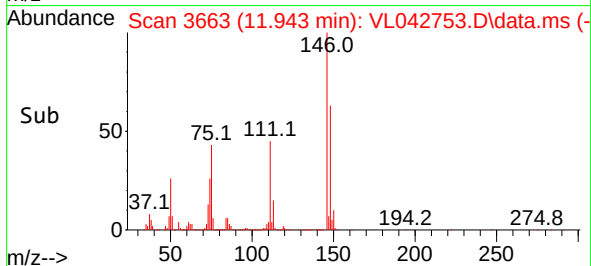
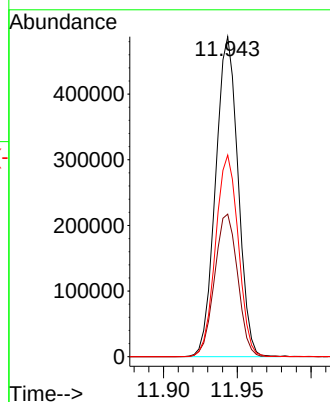
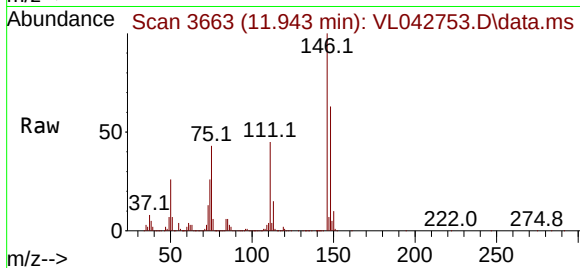
Tgt Ion:146 Resp: 516714

Ion Ratio Lower Upper

146 100

111 45.9 23.7 71.1

148 64.0 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 13.296 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

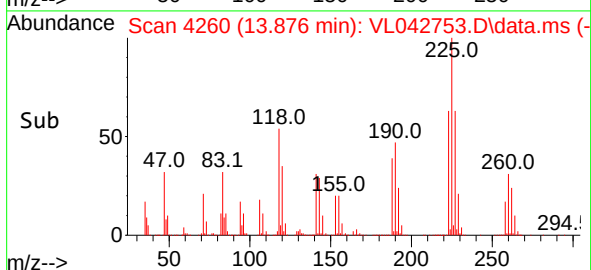
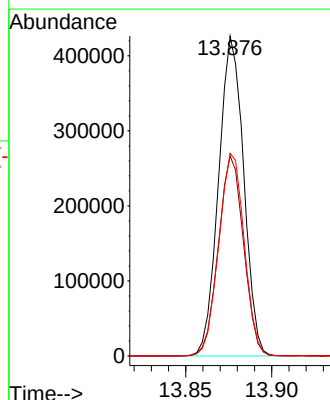
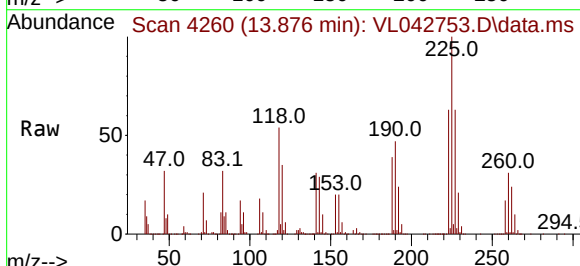
Tgt Ion:225 Resp: 432138

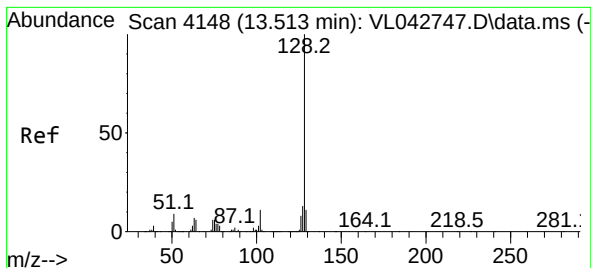
Ion Ratio Lower Upper

225 100

223 62.9 50.7 76.1

227 64.3 50.5 75.7





#79

Naphthalene

Concen: 15.265 ppbv

RT: 13.507 min Scan# 4148

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

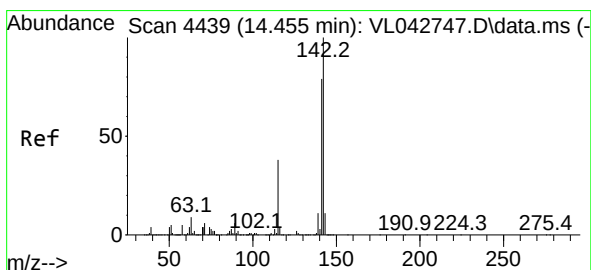
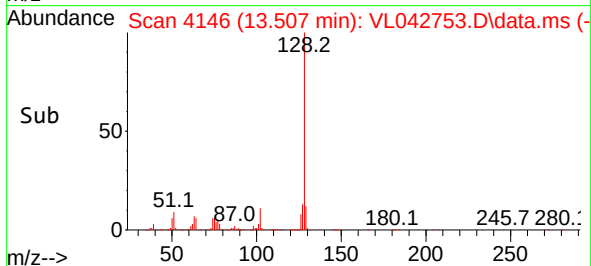
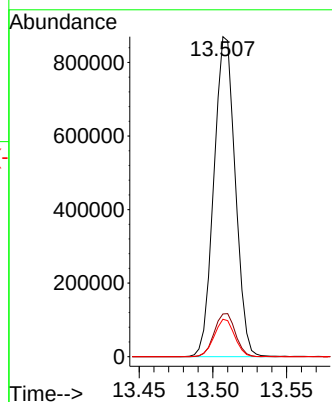
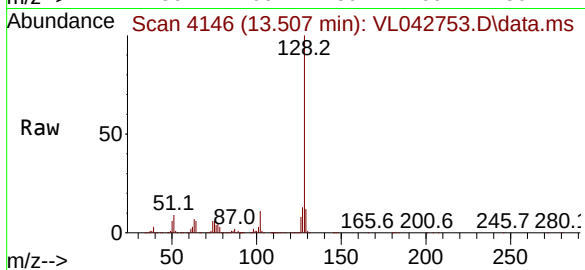
Tgt Ion:128 Resp: 876734

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

129 11.7 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 15.438 ppbv

RT: 14.452 min Scan# 4438

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

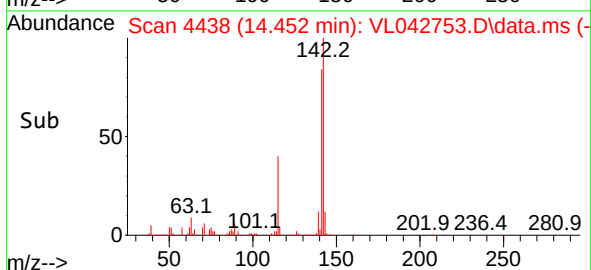
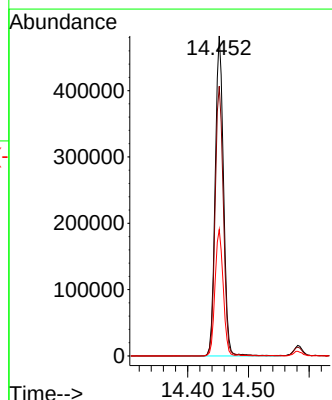
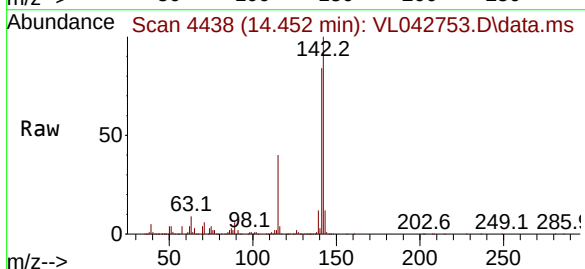
Tgt Ion:142 Resp: 456529

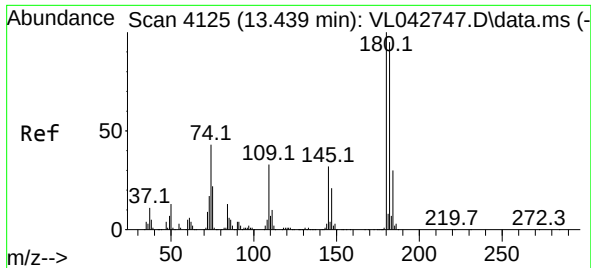
Ion Ratio Lower Upper

142 100

141 84.4 65.8 98.8

115 39.2 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 15.200 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042753.D

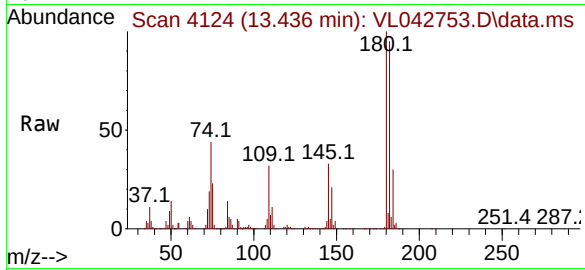
Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



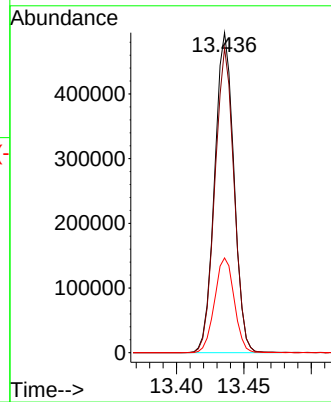
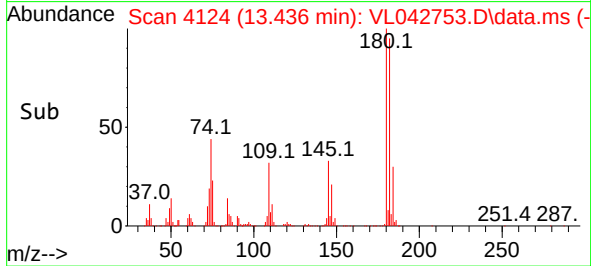
Tgt Ion:180 Resp: 490575

Ion Ratio Lower Upper

180 100

182 94.8 76.2 114.2

184 30.3 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

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 26 06:05:16 2022
 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
2) Dichlorodifluoromethane	1.499	85	2439	0.121	ppbv	90
3) Chlorodifluoromethane	1.609	51	1060	0.040	ppbv	99
4) Chloromethane	1.532	50	1066	0.131	ppbv	99
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
6) Bromomethane	1.667	94	438	0.141	ppbv	82
7) Chloroethane	1.706	64	526	0.169	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	1725	0.104	ppbv	97
9) Propene	1.486	41	1118	0.117	ppbv #	68
10) Heptane	4.975	43	817	0.032	ppbv #	27
11) Trichlorofluoromethane	1.878	101	2050	0.099	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	1772	0.112	ppbv	96
13) Ethanol	1.891	45	1804	1.545	ppbv	74
14) Bromoethene	1.781	108	778	0.139	ppbv #	54
15) Acetone	1.836	43	3734	0.177	ppbv	95
16) 1,3-Butadiene	1.609	39	976	0.109	ppbv #	41
17) tert-Butyl alcohol	2.040	59	2194	0.116	ppbv #	79
18) 1,1-Dichloroethene	2.036	96	899	0.126	ppbv #	56
19) Isopropyl Alcohol	1.891	45	1804	0.161	ppbv #	59
20) Methylene Chloride	2.062	84	2080	0.314	ppbv #	77
21) Allyl Chloride	2.098	41	1747	0.135	ppbv #	54
22) trans-1,2-Dichloroethene	2.337	96	1116	0.146	ppbv #	63
23) Vinyl Acetate	2.457	43	3460	0.136	ppbv #	61
24) 1,1-Dichloroethane	2.409	63	1620	0.103	ppbv #	90
25) Ethyl Acetate	2.833	43	1813	0.039	ppbv #	67
26) Hexane	2.823	57	1982	0.097	ppbv #	76
27) Carbon Disulfide	2.146	76	1789	0.102	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	1378	0.143	ppbv #	60
29) Chloroform	2.412	83	101	0.003	ppbv	97
30) Cyclohexane	3.852	84	516	0.030	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	2152	0.103	ppbv #	87
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
34) 2-Butanone	2.564	43	4086	0.132	ppbv	95
35) Carbon Tetrachloride	3.768	117	796	0.024	ppbv	96
36) Benzene	3.658	78	1246	0.030	ppbv	96
37) 1,2-Dichloroethane	3.218	62	1114	0.044	ppbv #	57
38) Trichloroethene	4.538	130	333	0.017	ppbv #	29
39) 1,2-Dichloropropane	3.956	63	113176	7.376	ppbv #	21
40) 1,4-Dioxane	4.603	88	294	0.041	ppbv #	39
41) Tetrahydrofuran	3.050	42	83	0.005	ppbv #	38
42) Bromodichloromethane	4.483	83	1563	0.048	ppbv #	84
43) Methyl Methacrylate	4.865	69	298	0.020	ppbv #	1
44) 2,2,4-Trimethylpentane	4.639	57	1109	0.016	ppbv #	1
45) t-1,3-Dichloropropene	6.412	75	912	0.055	ppbv	97

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

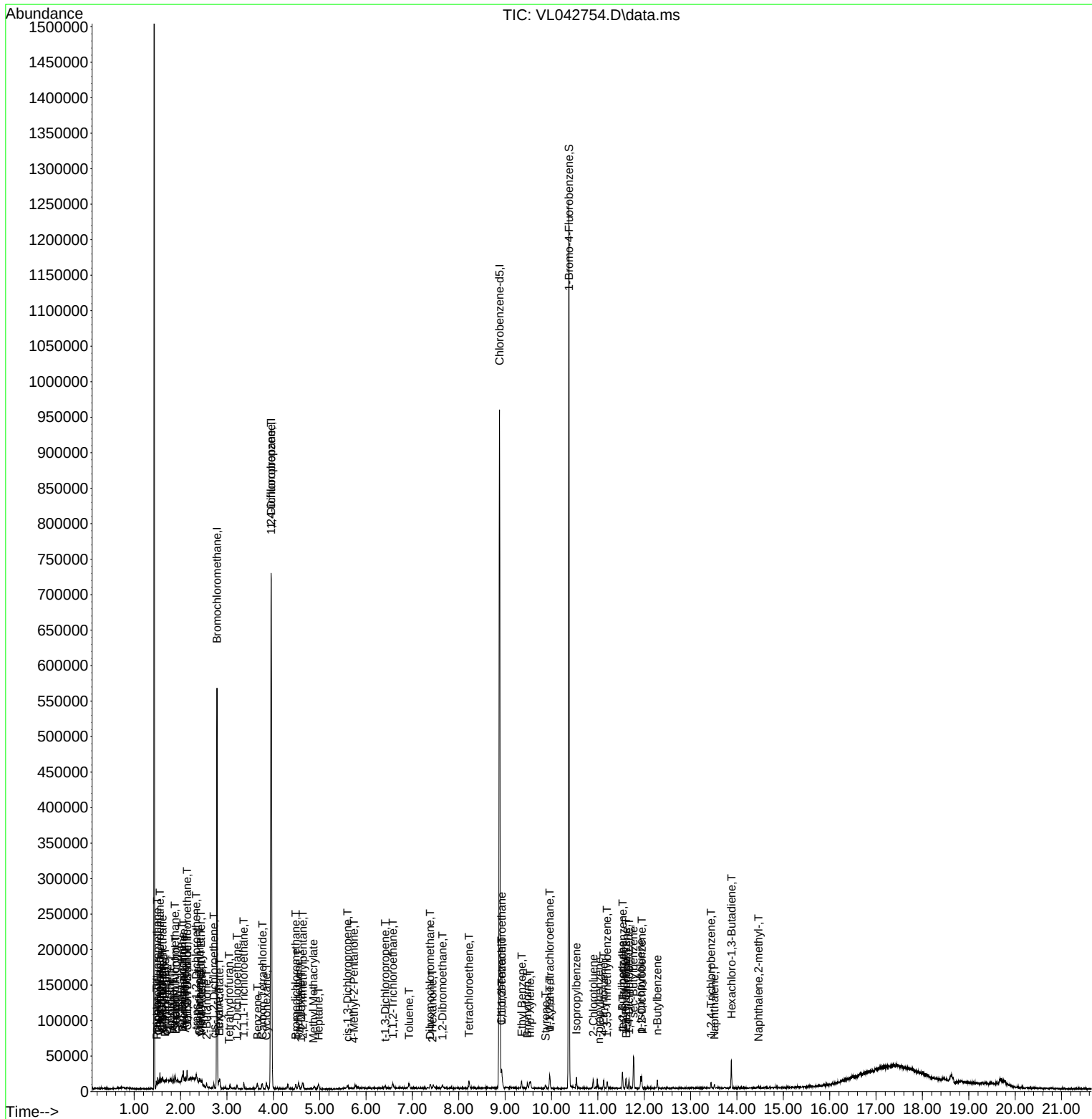
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

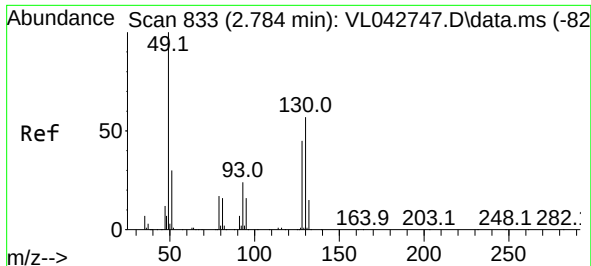
Quant Time: Jul 24 05:01:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	1232	0.059	ppbv #	42
47) 1,1,2-Trichloroethane	6.577	97	787	0.048	ppbv #	55
48) Dibromochloromethane	7.380	129	1591	0.061	ppbv #	21
49) Bromoform	9.477	173	1201	0.053	ppbv #	29
50) 4-Methyl-2-Pentanone	5.739	43	126	0.003	ppbv #	40
51) 2-Hexanone	7.435	43	436	0.014	ppbv #	30
52) Tetrachloroethene	8.222	164	981	0.057	ppbv #	62
53) Toluene	6.930	91	1198	0.027	ppbv #	1
54) 1,2-Dibromoethane	7.649	107	1080	0.047	ppbv #	52
56) 1,1,1,2-Tetrachloroethane	8.927	131	922	0.045	ppbv #	1
57) Chlorobenzene	8.921	112	4337	0.114	ppbv #	88
58) Ethyl Benzene	9.358	91	2183	0.035	ppbv	100
59) m/p-Xylene	9.539	91	5405	0.109	ppbv #	60
60) o-Xylene	9.963	91	2101	0.042	ppbv #	53
61) Styrene	9.872	104	807	0.039	ppbv #	29
62) Isopropylbenzene	10.536	105	5985	0.082	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.963	83	1989	0.062	ppbv #	49
64) n-propylbenzene	11.025	120	48	0.003	ppbv	74
65) tert-Butylbenzene	11.523	119	4707	0.072	ppbv	91
66) Benzyl Chloride	11.614	91	204	0.038	ppbv #	78
67) sec-Butylbenzene	11.766	105	6449	0.070	ppbv #	90
69) p-Isopropyltoluene	11.924	119	5342	0.071	ppbv	93
70) n-Butylbenzene	12.284	91	4198	0.058	ppbv	94
71) 2-Chlorotoluene	10.905	91	4180	0.075	ppbv	77
72) 4-Ethyltoluene	11.125	105	3597	0.061	ppbv #	82
73) 1,3,5-Trimethylbenzene	11.199	105	3603	0.074	ppbv #	70
74) 1,2,4-Trimethylbenzene	11.536	105	3826	0.072	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	2417	0.065	ppbv #	67
76) 1,4-Dichlorobenzene	11.672	146	3265	0.090	ppbv	95
77) 1,2-Dichlorobenzene	11.947	146	3354	0.092	ppbv	96
78) Hexachloro-1,3-Butadiene	13.883	225	4077	0.123	ppbv	97
79) Naphthalene	13.514	128	2509	0.475	ppbv #	96
80) Naphthalene,2-methyl-	14.468	142	676	1.147	ppbv #	70
81) 1,2,4-Trichlorobenzene	13.442	180	1396	0.475	ppbv #	78

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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

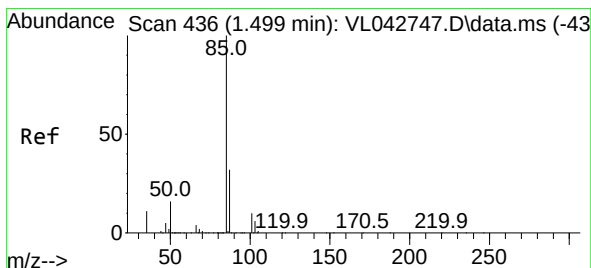
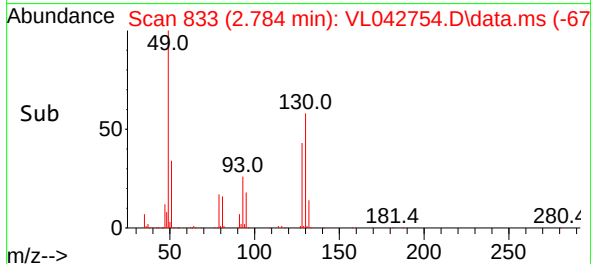
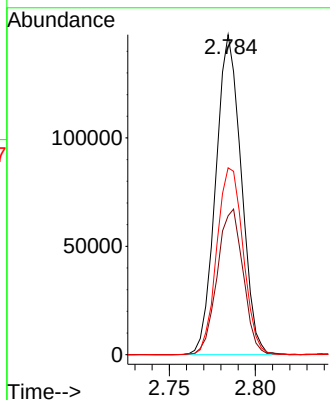
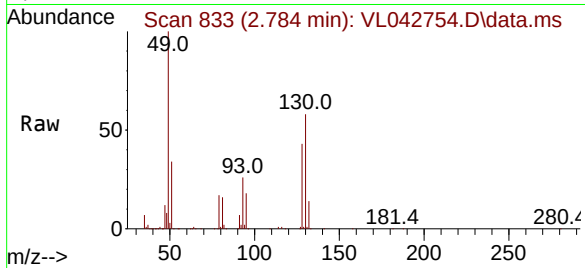




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

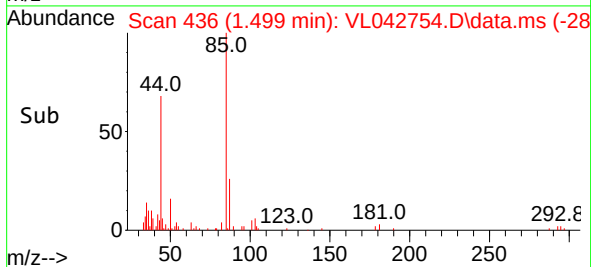
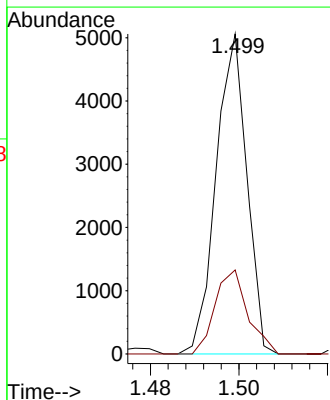
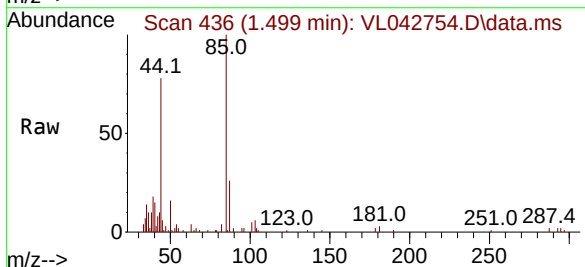
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

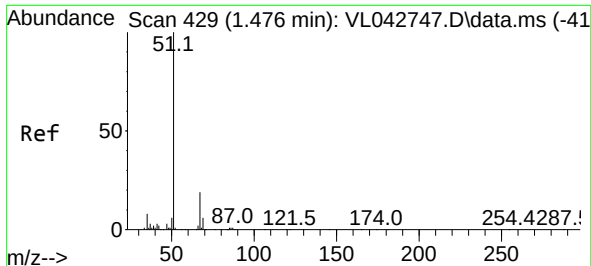
Tgt Ion: 49 Resp: 152358
 Ion Ratio Lower Upper
 49 100
 128 46.3 23.6 71.0
 130 60.6 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.121 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 85 Resp: 2439
 Ion Ratio Lower Upper
 85 100
 87 26.3 25.4 38.2

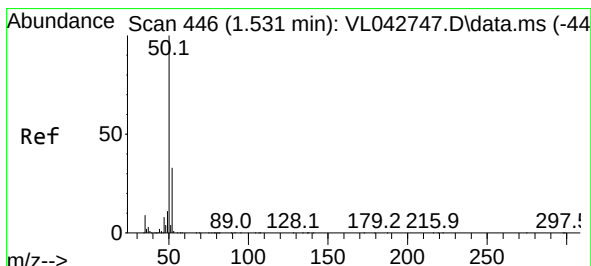
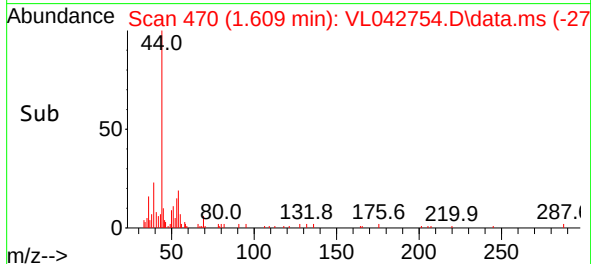
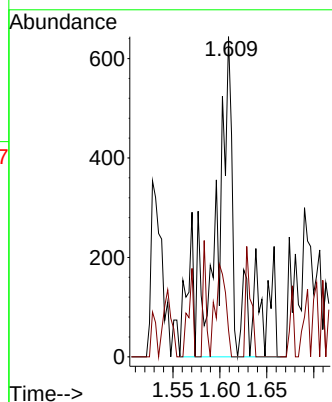
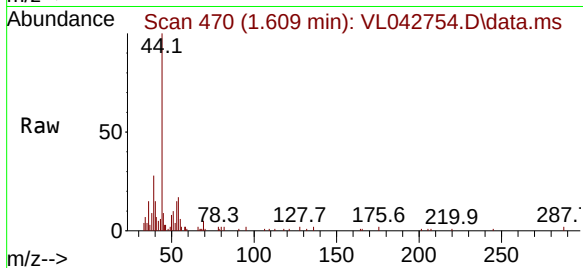




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.133 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

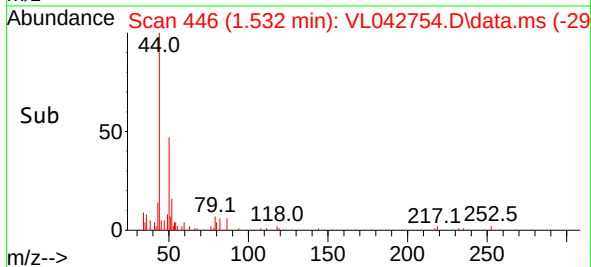
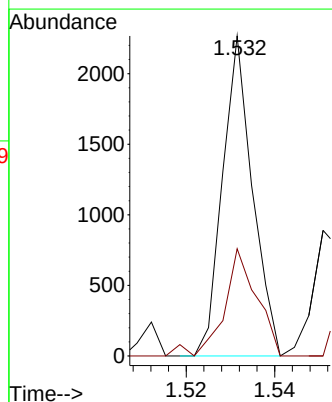
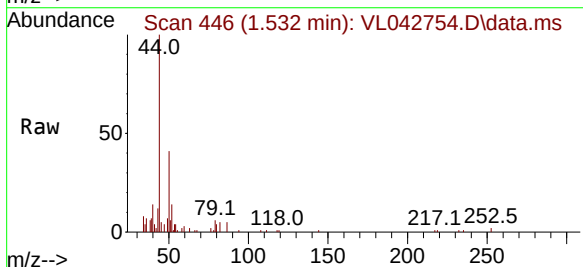
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

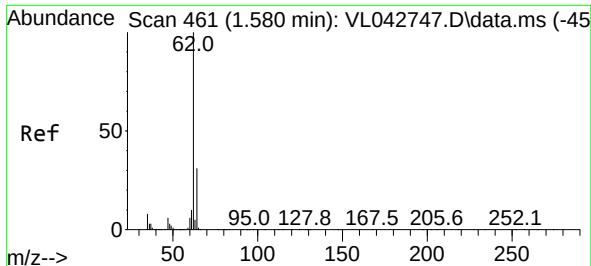
Tgt Ion: 51 Resp: 1060
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6



#4
Chloromethane
Concen: 0.131 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 50 Resp: 1066
Ion Ratio Lower Upper
50 100
52 34.0 26.6 40.0

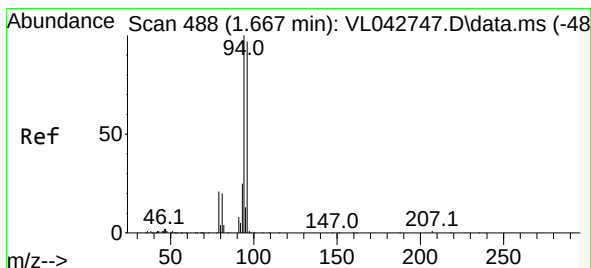
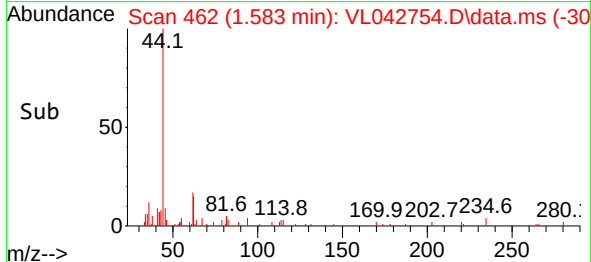
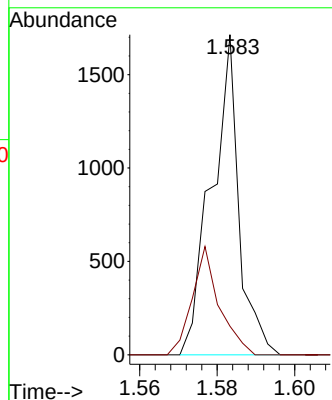
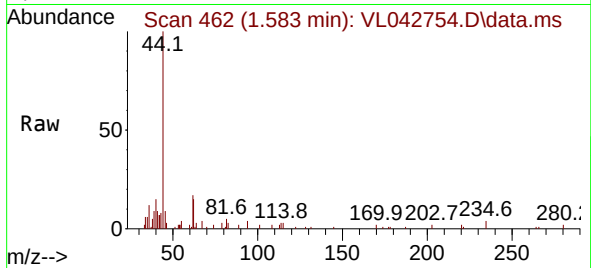




#5
 Vinyl Chloride
 Concen: 0.104 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.004 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

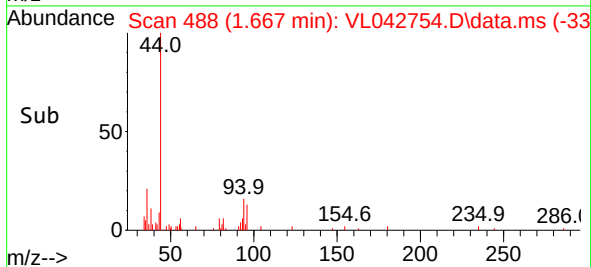
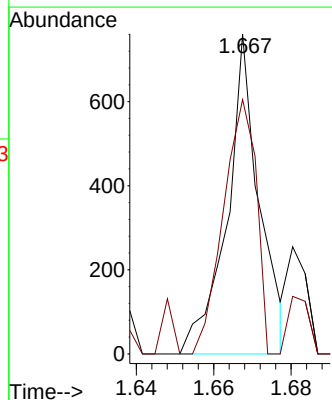
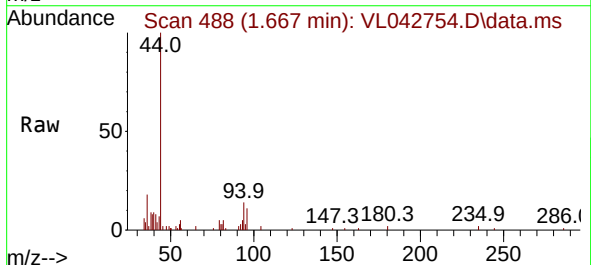
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

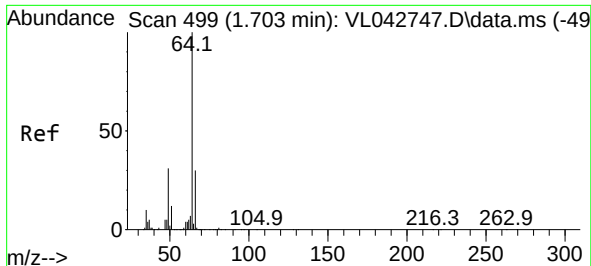
Tgt Ion: 62 Resp: 837
 Ion Ratio Lower Upper
 62 100
 64 8.9 24.5 36.7#



#6
 Bromomethane
 Concen: 0.141 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 94 Resp: 438
 Ion Ratio Lower Upper
 94 100
 96 79.5 77.6 116.4

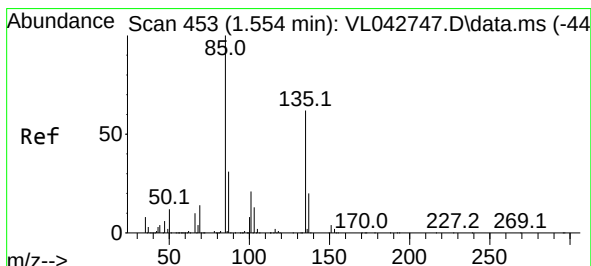
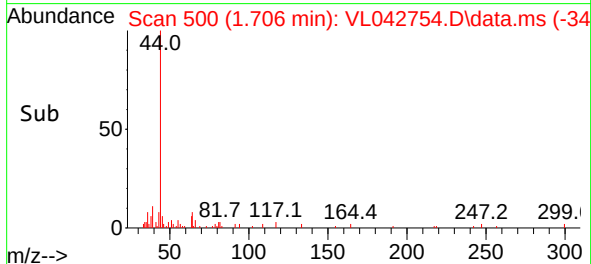
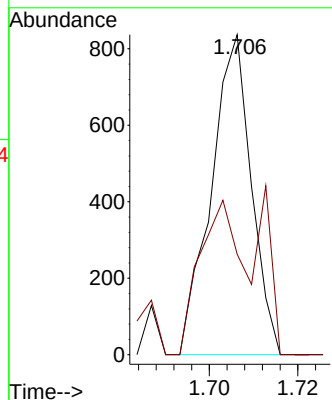
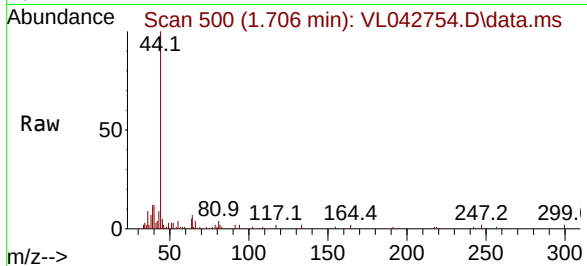




#7
Chloroethane
Concen: 0.169 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

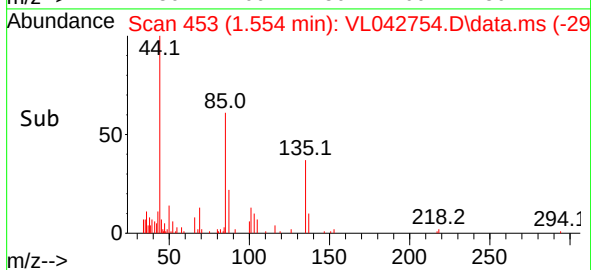
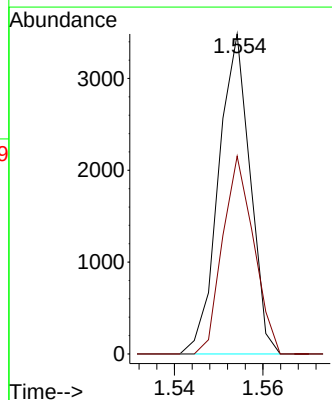
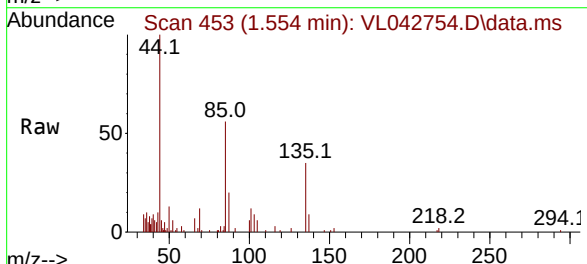
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

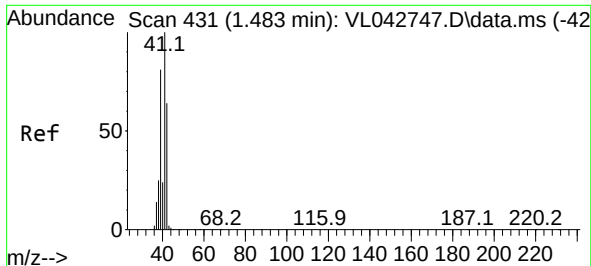
Tgt Ion: 64 Resp: 526
Ion Ratio Lower Upper
64 100
66 31.4 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 85 Resp: 1725
Ion Ratio Lower Upper
85 100
135 61.0 50.6 76.0





#9

Propene

Concen: 0.117 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

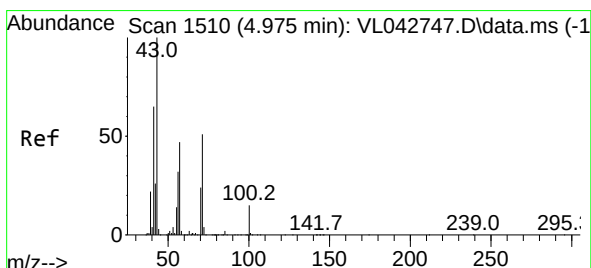
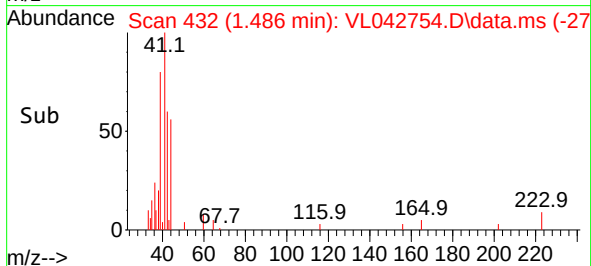
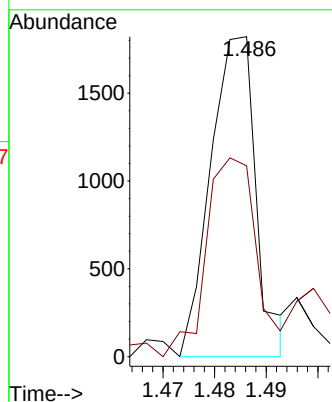
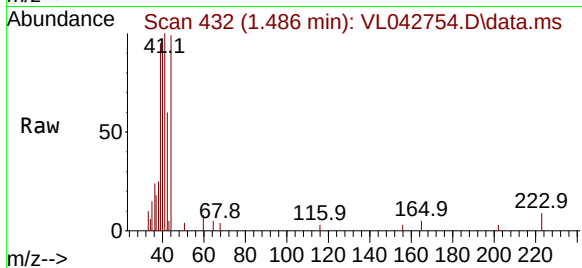
VSTDIC0.1

Tgt Ion: 41 Resp: 1118

Ion Ratio Lower Upper

41 100

42 92.3 53.2 79.8#



#10

Heptane

Concen: 0.032 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042754.D

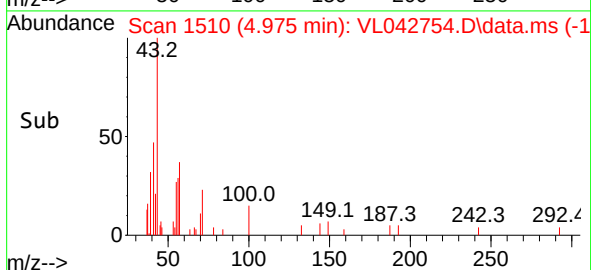
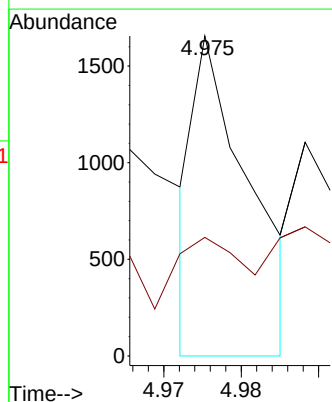
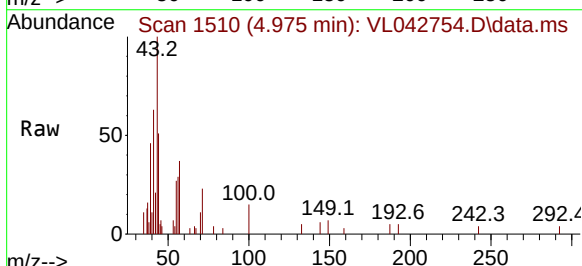
Acq: 23 Jul 2025 13:00

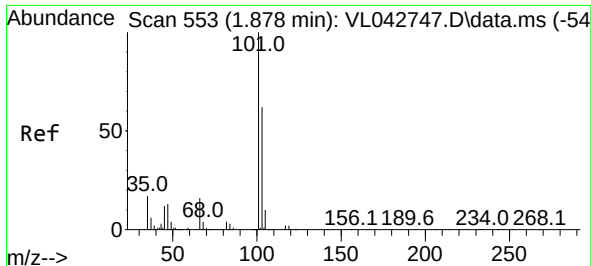
Tgt Ion: 43 Resp: 817

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

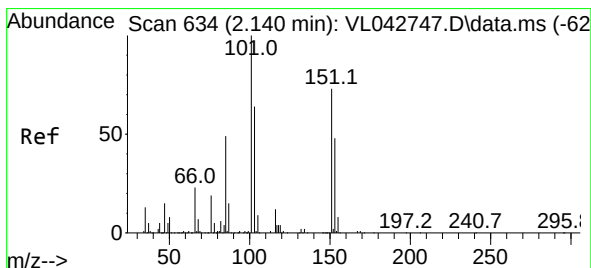
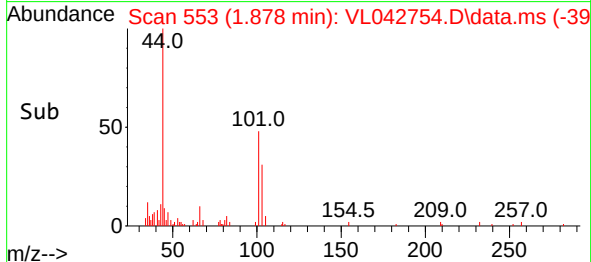
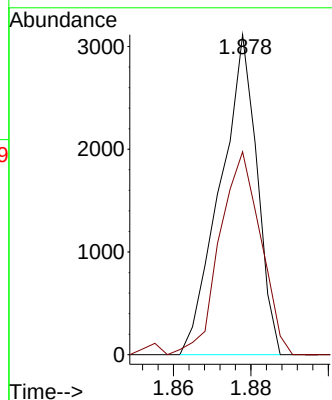
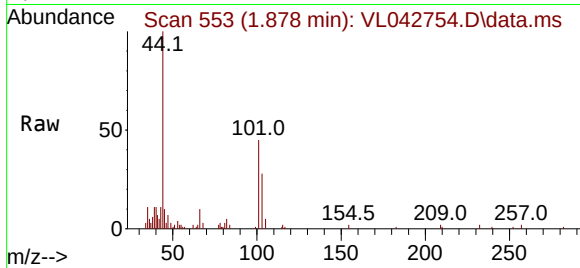




#11
 Trichlorofluoromethane
 Concen: 0.099 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

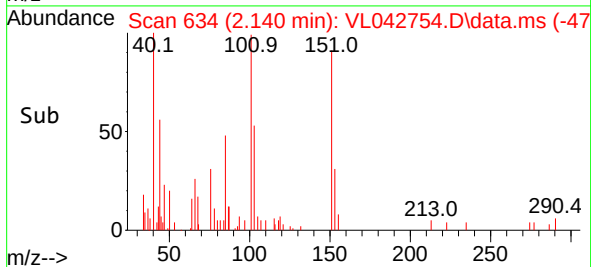
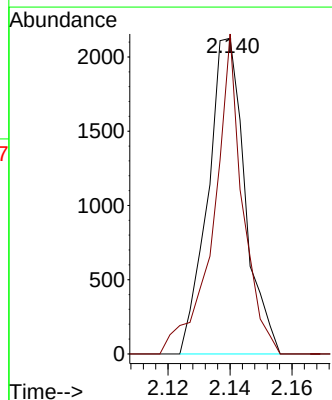
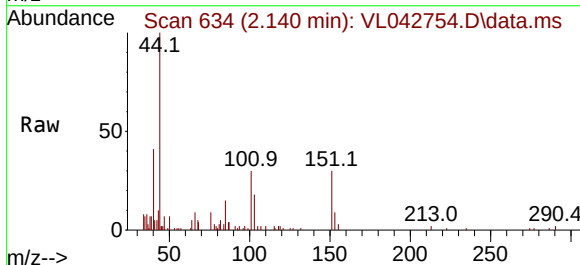
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

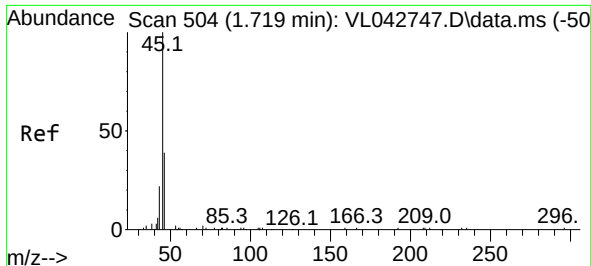
Tgt Ion:101 Resp: 2050
 Ion Ratio Lower Upper
 101 100
 103 61.8 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.112 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion:101 Resp: 1772
 Ion Ratio Lower Upper
 101 100
 151 79.0 60.5 90.7

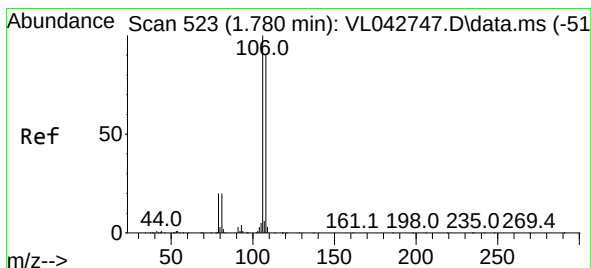
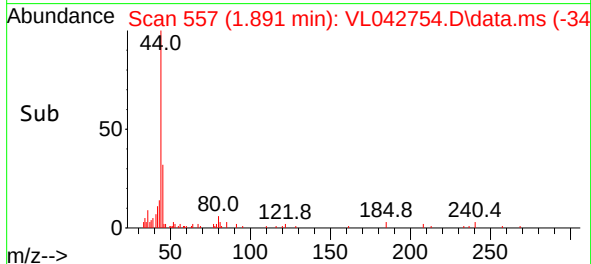
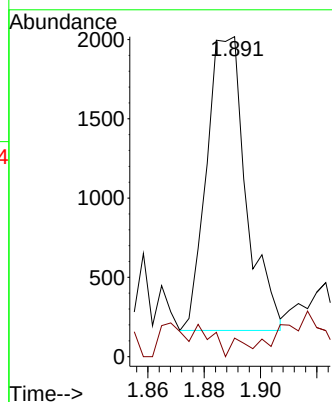
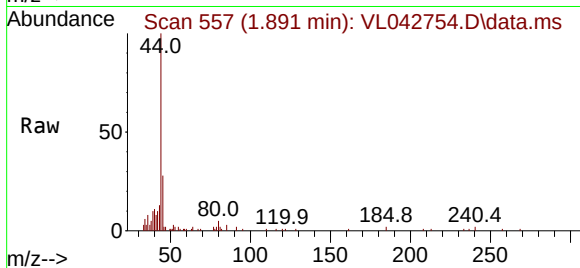




#13
Ethanol
Concen: 1.545 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.172 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

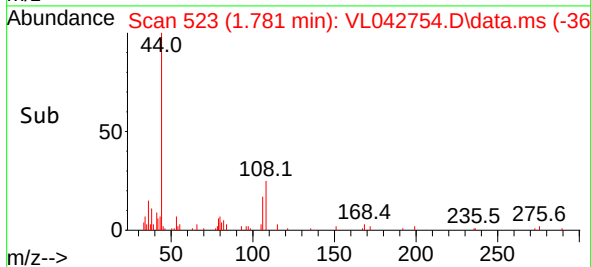
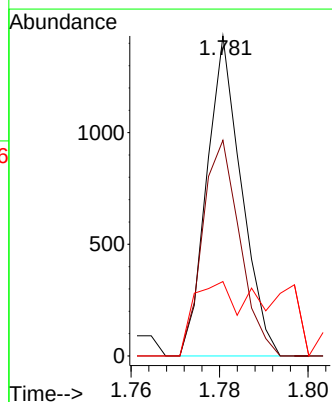
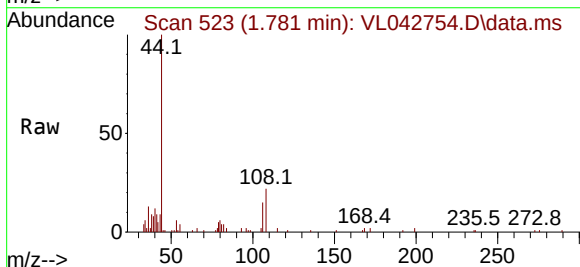
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

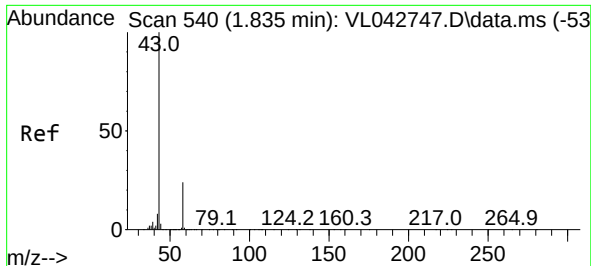
Tgt Ion: 45 Resp: 1804
Ion Ratio Lower Upper
45 100
46 27.4 17.8 71.4



#14
Bromoethene
Concen: 0.139 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 108 Resp: 778
Ion Ratio Lower Upper
108 100
106 72.5 84.7 127.1#
79 74.6 17.4 26.2#

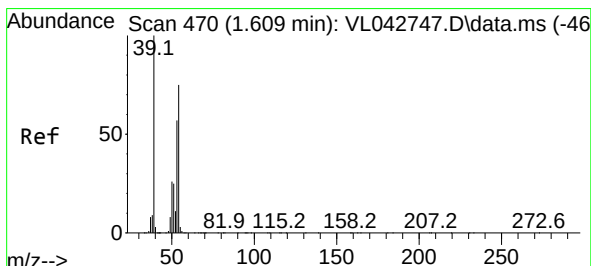
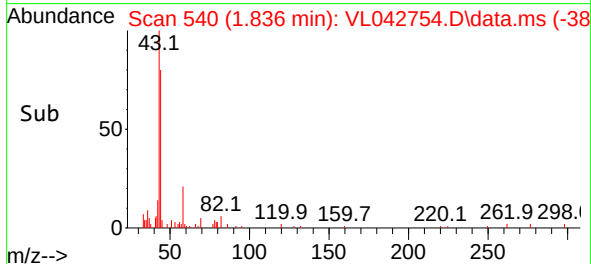
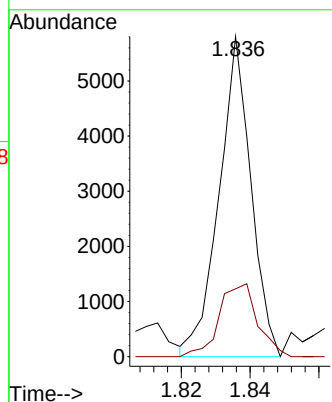
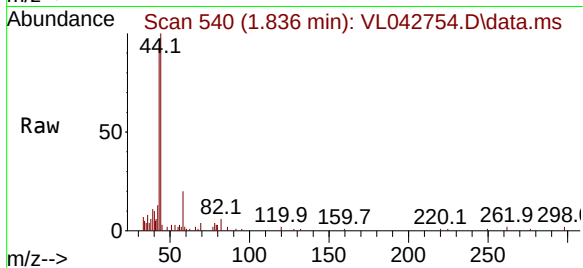




#15
Acetone
Concen: 0.177 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

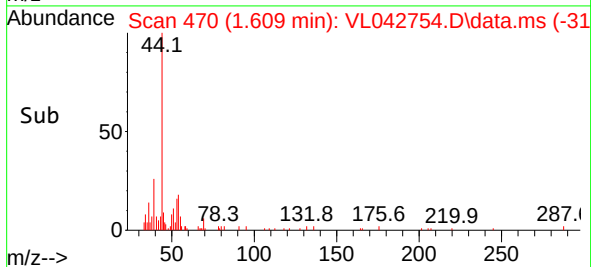
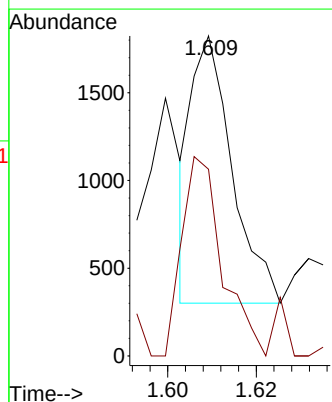
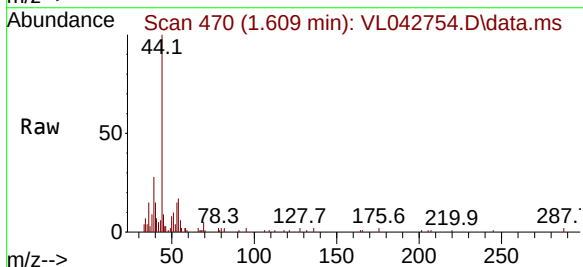
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

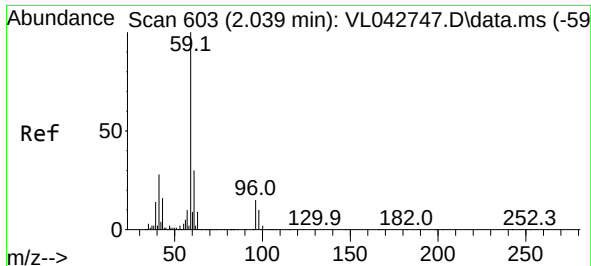
Tgt Ion: 43 Resp: 3734
Ion Ratio Lower Upper
43 100
58 27.4 19.8 29.8



#16
1,3-Butadiene
Concen: 0.109 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 39 Resp: 976
Ion Ratio Lower Upper
39 100
54 115.6 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 0.116 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

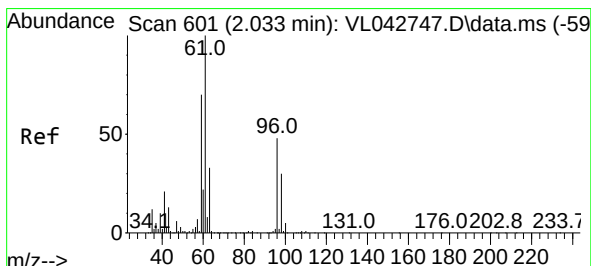
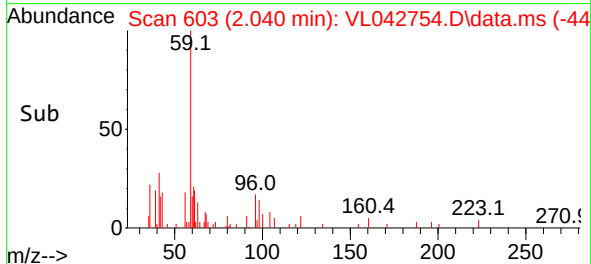
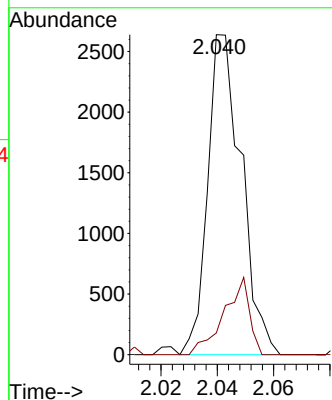
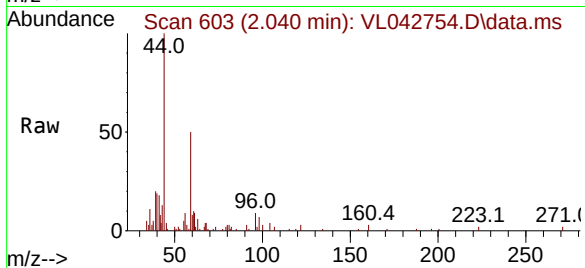
VSTDIC0.1

Tgt Ion: 59 Resp: 2194

Ion Ratio Lower Upper

59 100

57 18.3 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 0.126 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

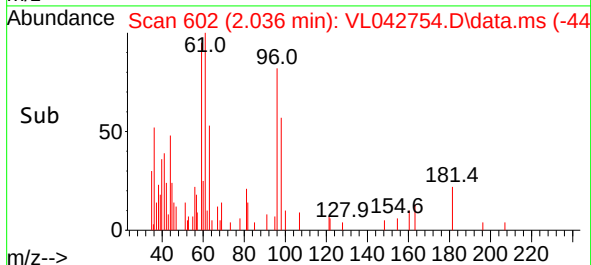
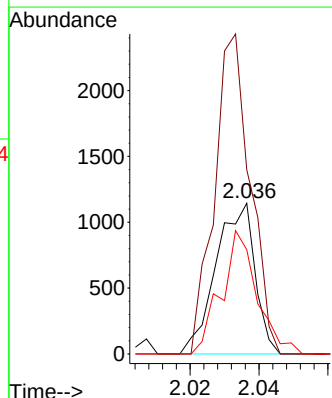
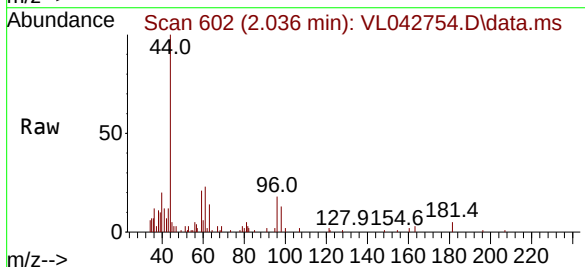
Tgt Ion: 96 Resp: 899

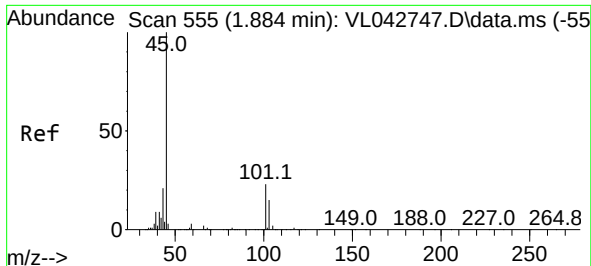
Ion Ratio Lower Upper

96 100

61 122.3 165.8 248.6#

98 69.2 49.9 74.9

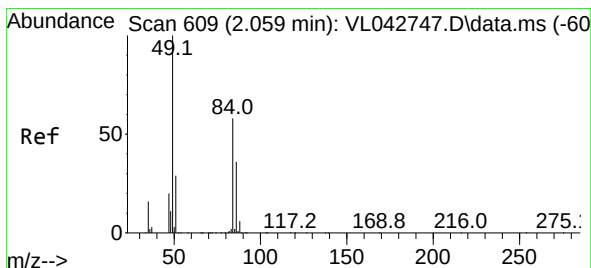
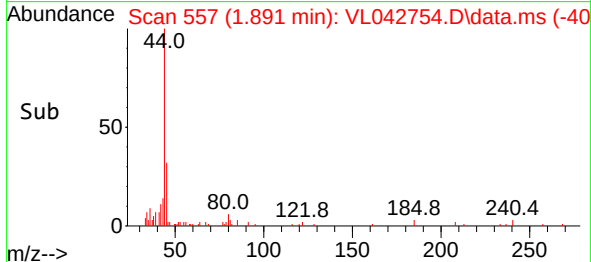
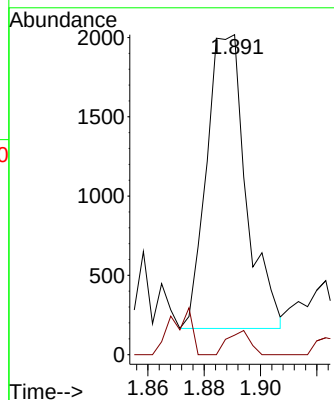
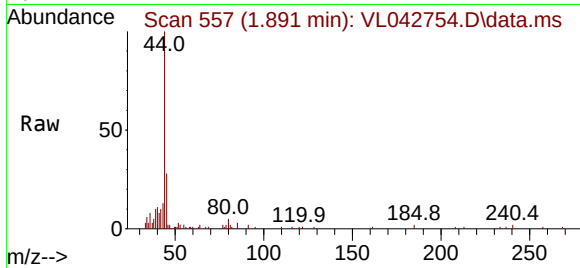




#19
Isopropyl Alcohol
Concen: 0.161 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

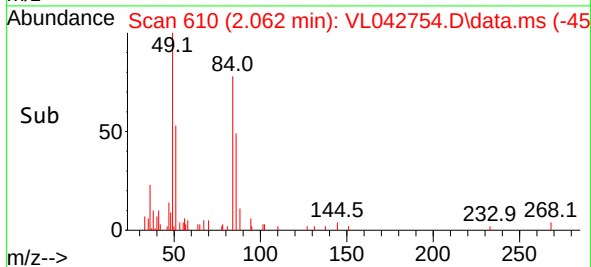
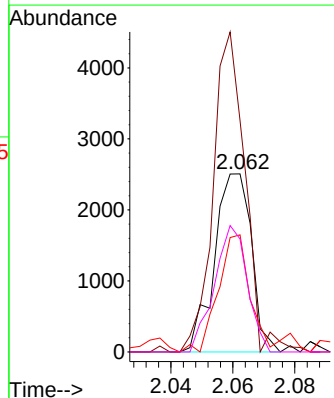
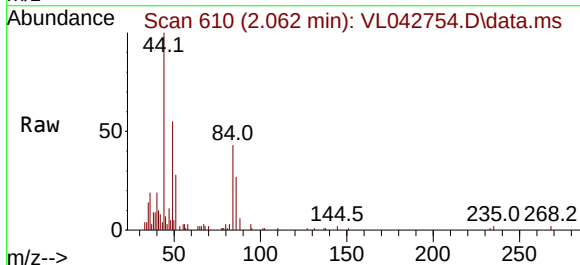
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

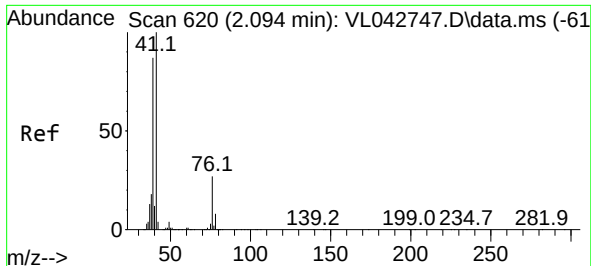
Tgt Ion: 45 Resp: 1804
Ion Ratio Lower Upper
45 100
58 13.0 30.0 45.0#



#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 84 Resp: 2080
Ion Ratio Lower Upper
84 100
49 129.9 138.6 208.0#
51 65.8 40.6 61.0#
86 63.4 49.8 74.8

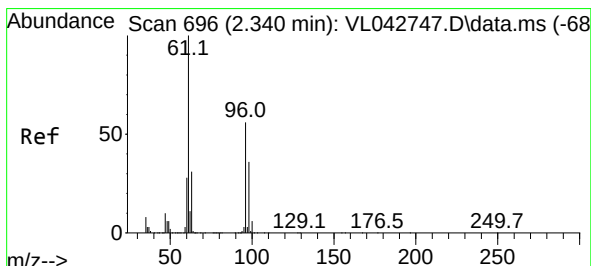
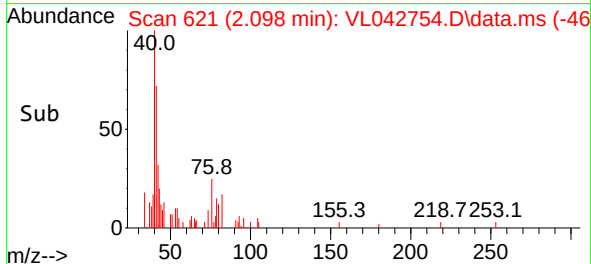
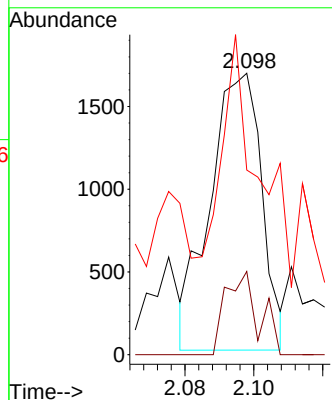
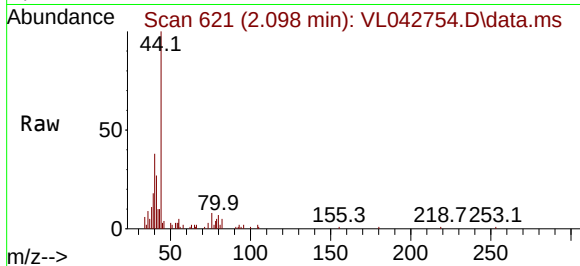




#21
 Allyl Chloride
 Concen: 0.135 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

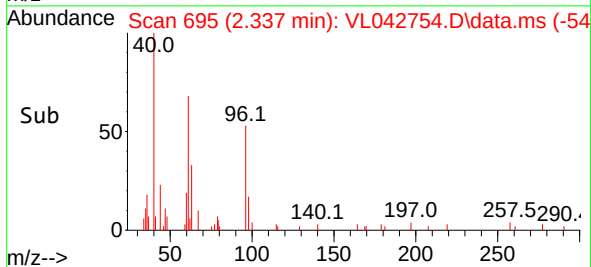
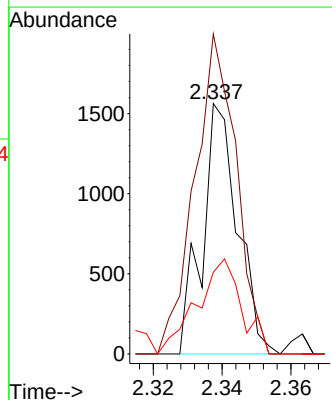
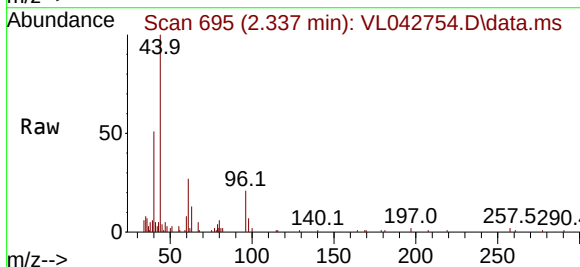
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

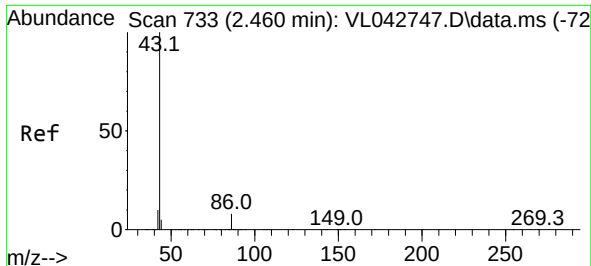
Tgt Ion: 41 Resp: 1747
 Ion Ratio Lower Upper
 41 100
 76 19.1 21.1 31.7#
 39 136.5 68.3 102.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.146 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 96 Resp: 1116
 Ion Ratio Lower Upper
 96 100
 61 127.8 142.3 213.5#
 98 32.6 50.6 76.0#

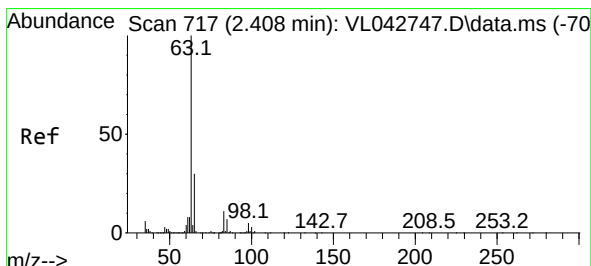
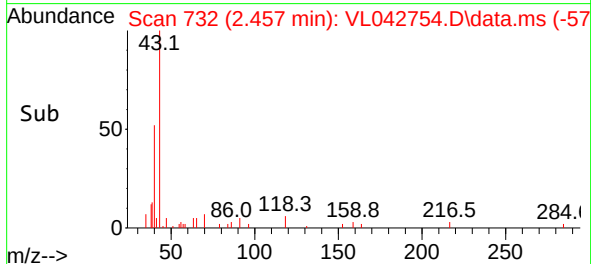
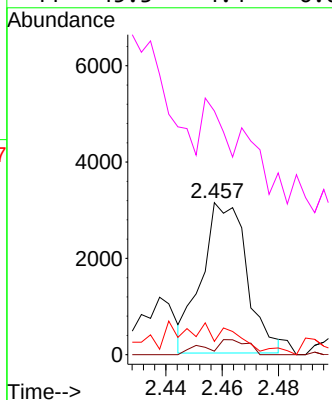
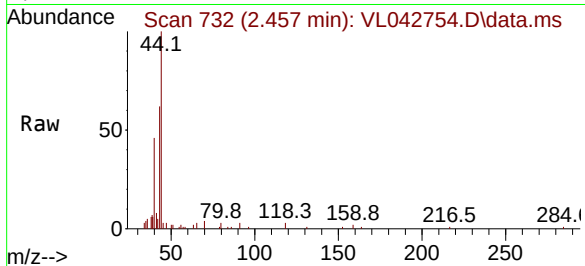




#23
 Vinyl Acetate
 Concen: 0.136 ppbv
 RT: 2.457 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

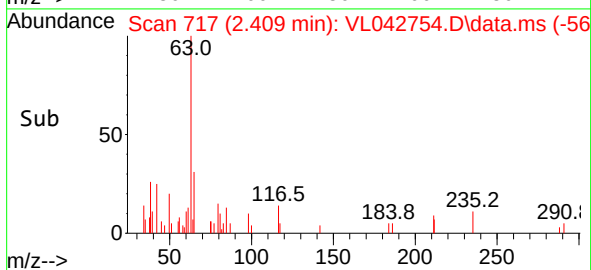
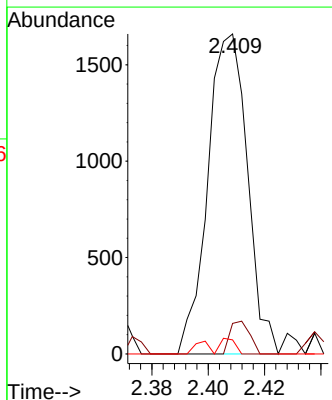
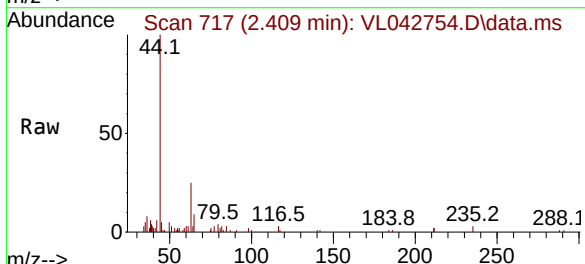
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

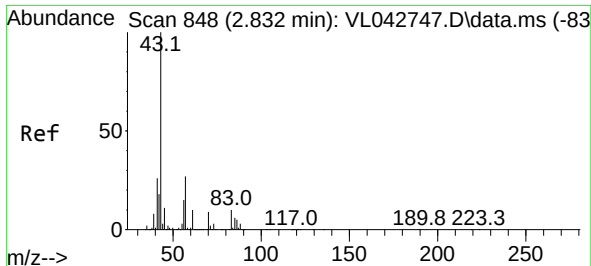
Tgt Ion: 43	Resp: 3460
Ion Ratio	Lower Upper
43 100	
86 2.5	6.1 9.1#
42 4.8	7.8 11.8#
44 45.3	4.4 6.6#



#24
 1,1-Dichloroethane
 Concen: 0.103 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 63	Resp:	1620	
Ion Ratio	Lower	Upper	
63 100			
98 9.5	2.5	7.4#	
100 4.4	1.6	4.8	





#25

Ethyl Acetate

Concen: 0.039 ppbv

RT: 2.833 min Scan# 84

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 1813

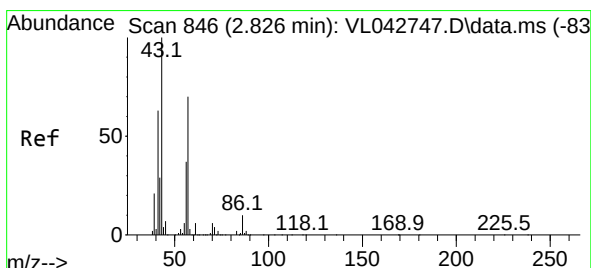
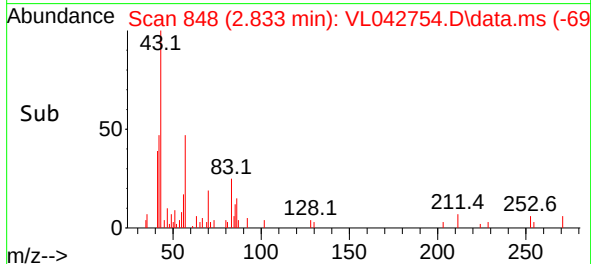
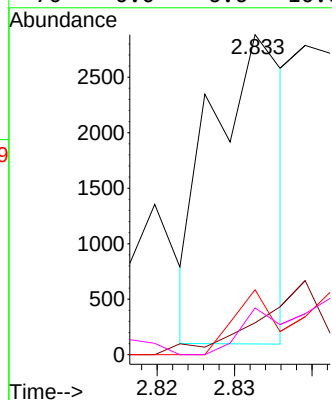
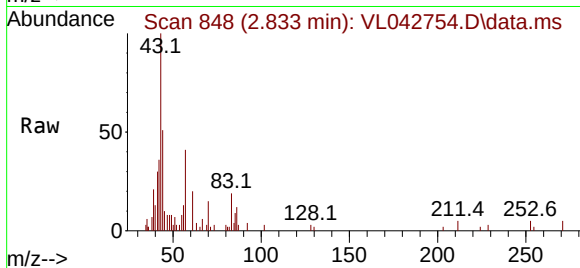
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.6#

61 26.6 6.7 10.1#

70 0.0 6.6 10.0#



#26

Hexane

Concen: 0.097 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion: 57 Resp: 1982

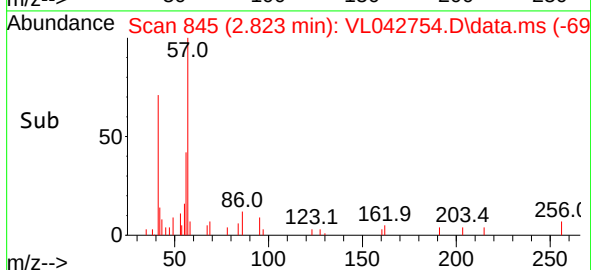
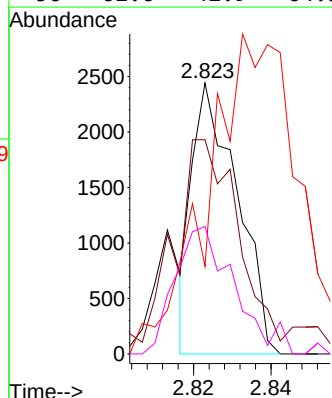
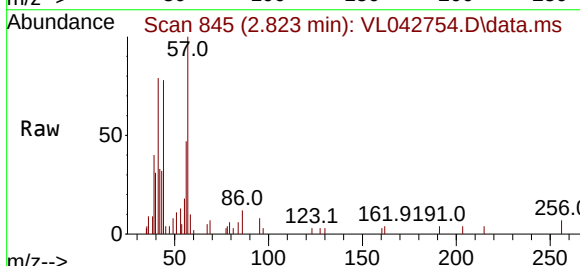
Ion Ratio Lower Upper

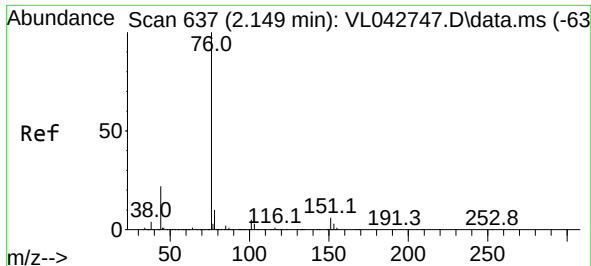
57 100

41 149.4 75.4 113.2#

43 252.9 185.0 277.6

56 62.6 42.9 64.3

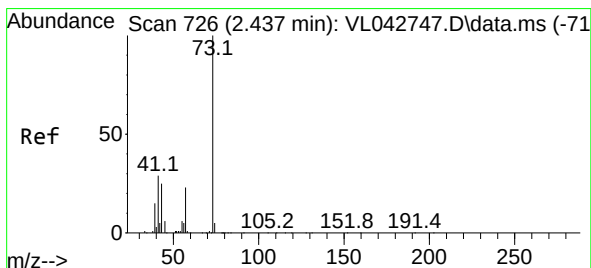
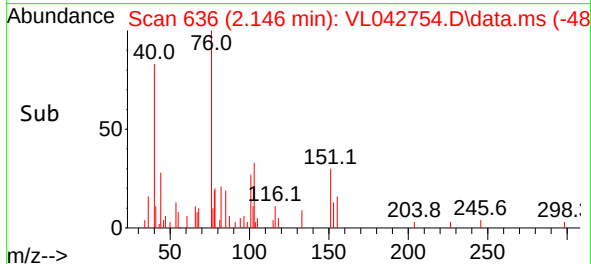
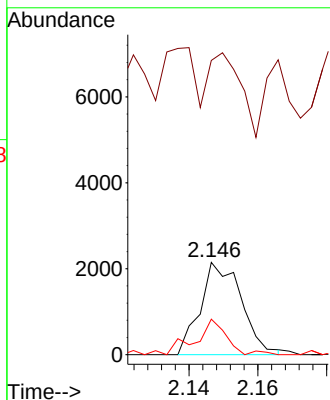
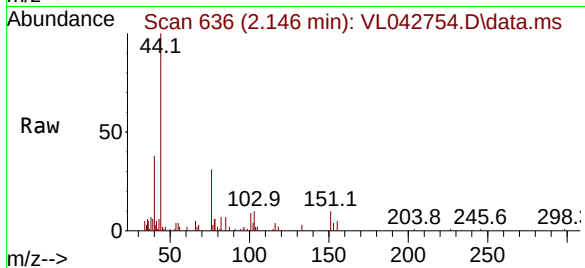




#27
Carbon Disulfide
Concen: 0.102 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

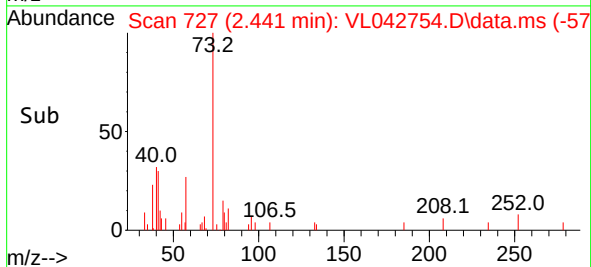
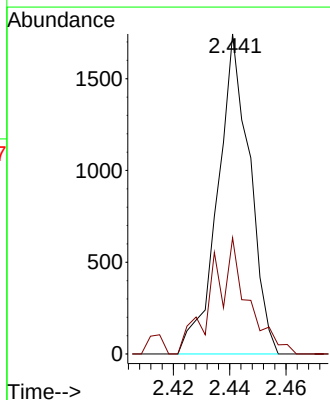
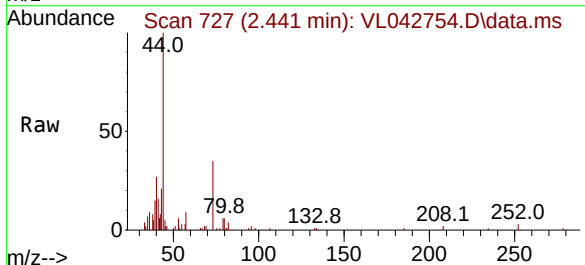
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

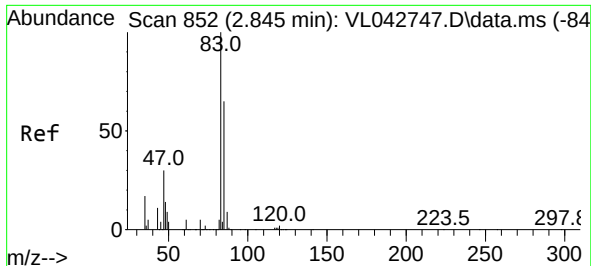
Tgt Ion: 76 Resp: 1789
Ion Ratio Lower Upper
76 100
44 606.9 19.3 28.9#
78 30.9 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.143 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 73 Resp: 1378
Ion Ratio Lower Upper
73 100
57 44.8 19.8 29.8#





#29

Chloroform

Concen: 0.003 ppbv

RT: 2.412 min Scan# 71

Delta R.T. -0.433 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

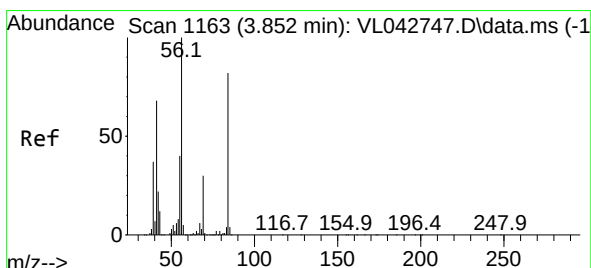
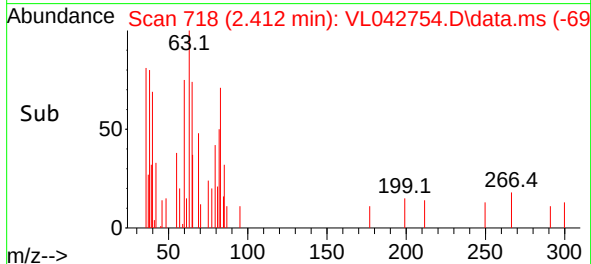
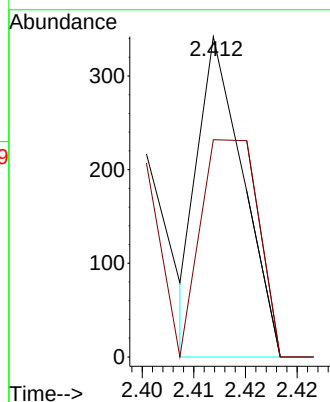
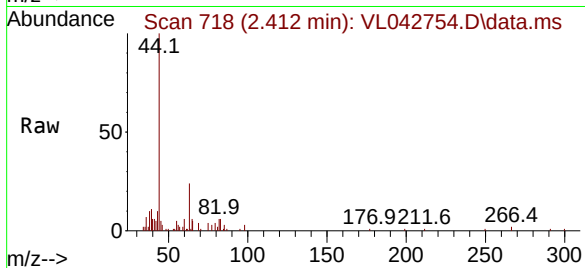
VSTDIC0.1

Tgt Ion: 83 Resp: 101

Ion Ratio Lower Upper

83 100

85 67.8 52.2 78.2



#30

Cyclohexane

Concen: 0.030 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

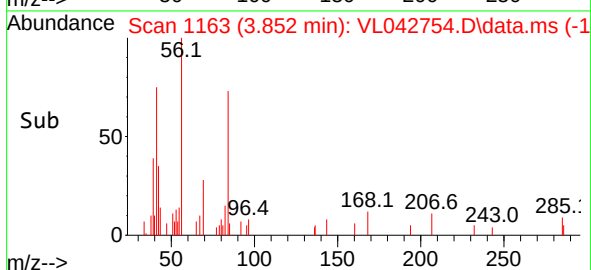
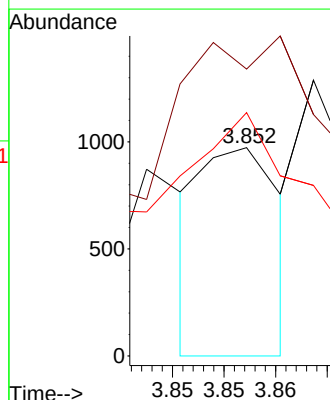
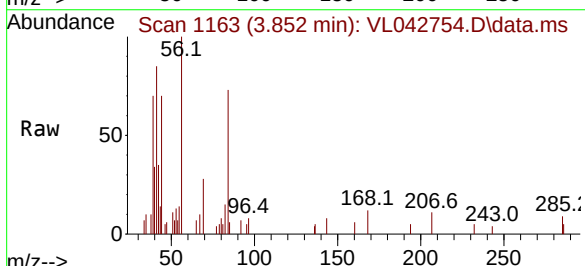
Tgt Ion: 84 Resp: 516

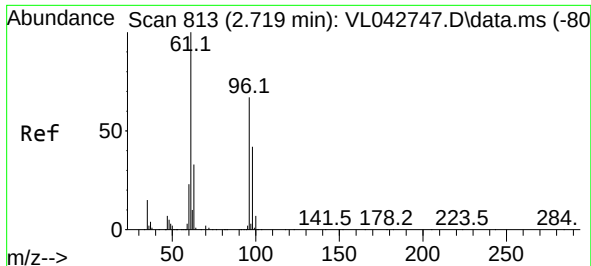
Ion Ratio Lower Upper

84 100

56 0.0 97.5 146.3#

41 369.4 67.2 100.8#

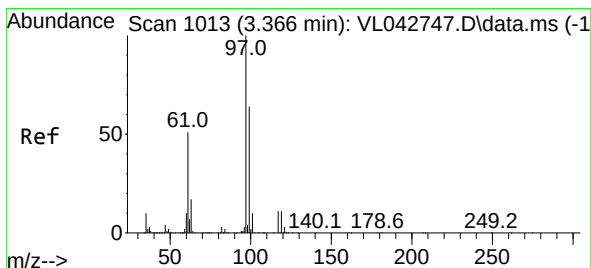
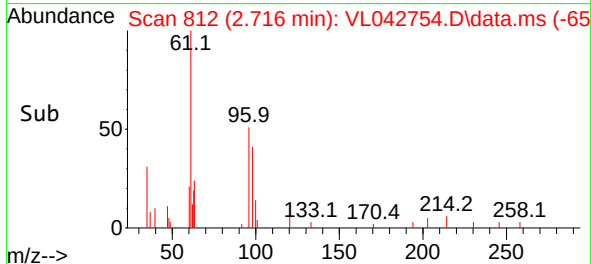
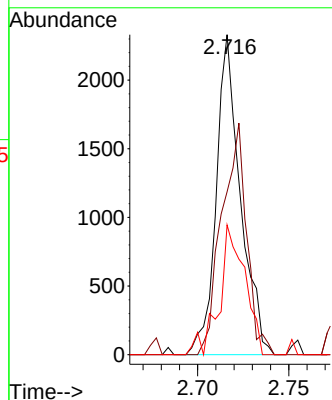
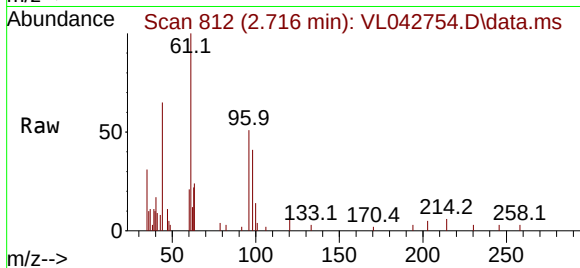




#31
 cis-1,2-Dichloroethene
 Concen: 0.103 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

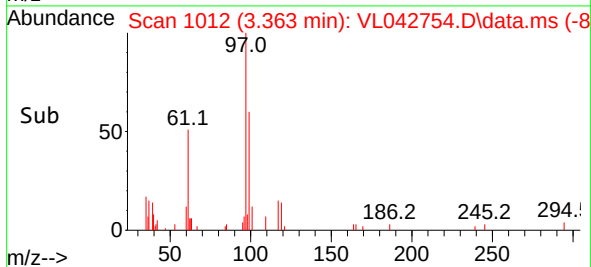
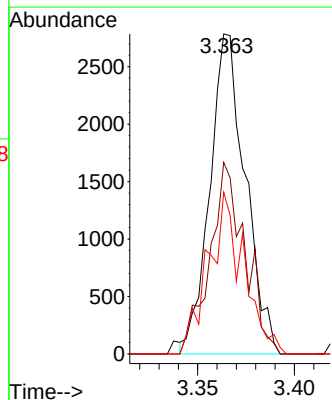
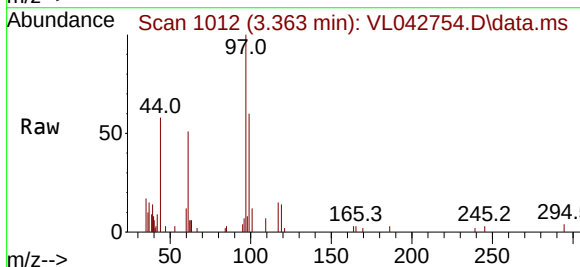
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

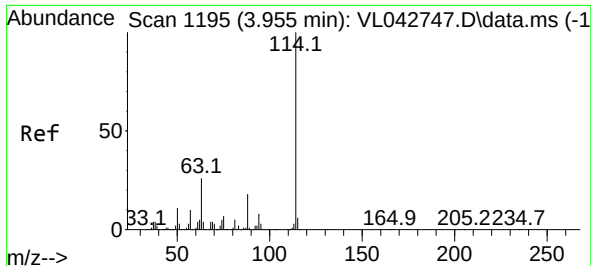
Tgt Ion: 61 Resp: 2152
 Ion Ratio Lower Upper
 61 100
 96 50.9 53.5 80.3#
 98 40.5 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 0.108 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 97 Resp: 3550
 Ion Ratio Lower Upper
 97 100
 99 59.4 51.0 76.6
 61 50.4 40.9 61.3

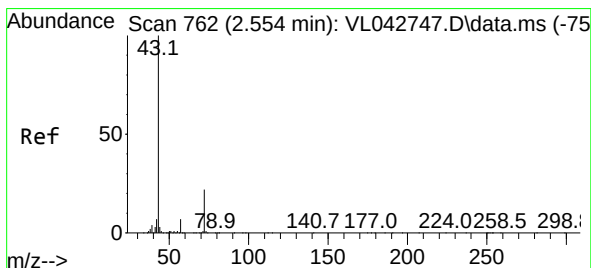
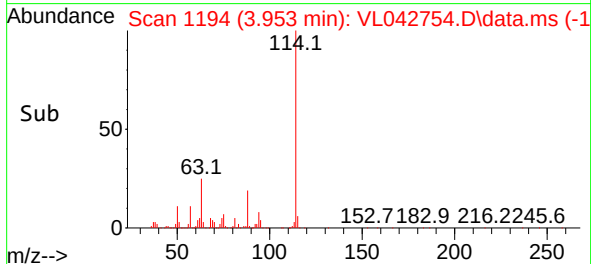
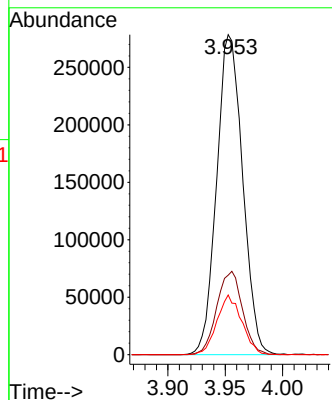
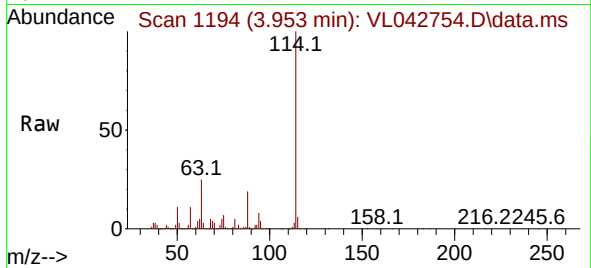




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.953 min Scan# 1194
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

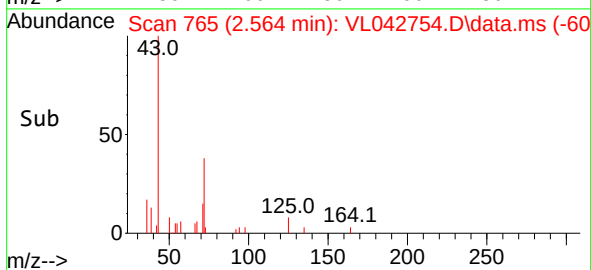
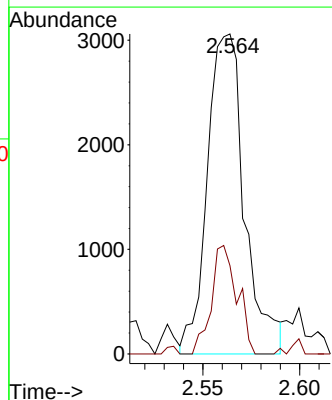
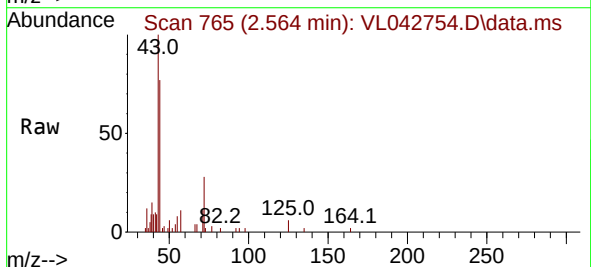
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

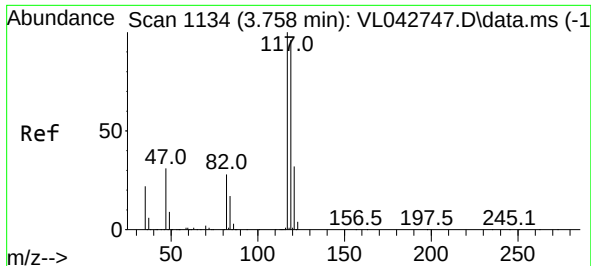
Tgt Ion:114 Resp: 438604
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.8 14.0 21.0



#34
 2-Butanone
 Concen: 0.132 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.010 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 43 Resp: 4086
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.4 26.0

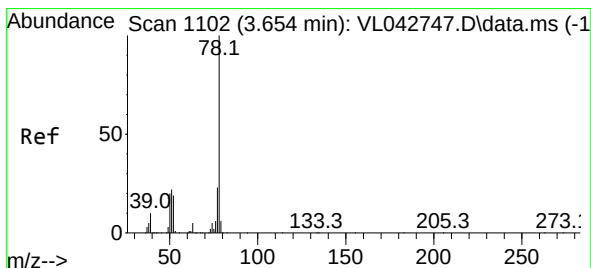
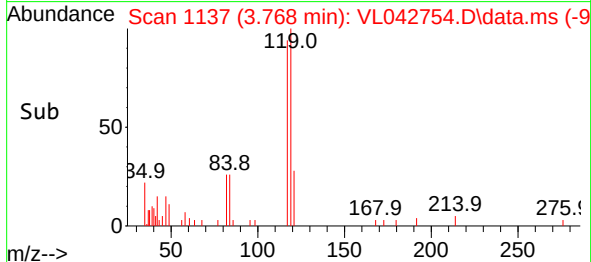
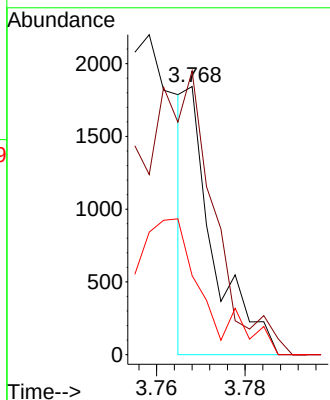
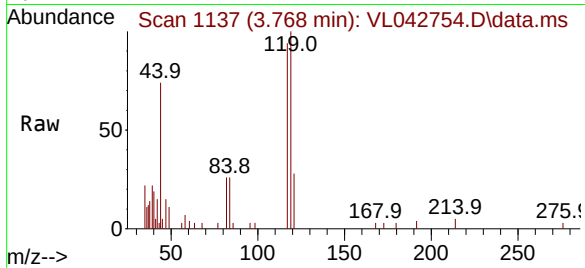




#35
Carbon Tetrachloride
Concen: 0.024 ppbv
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

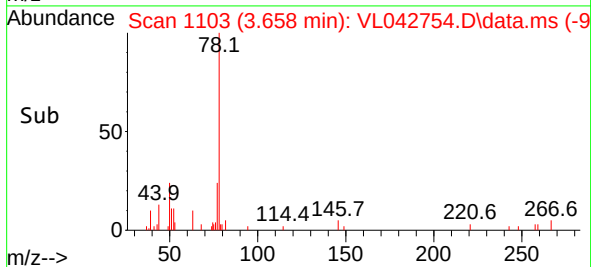
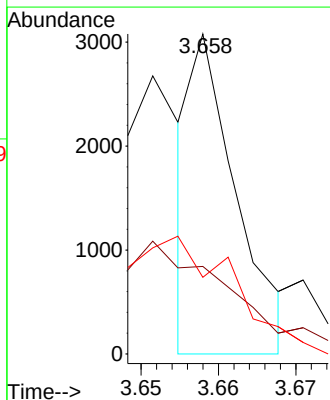
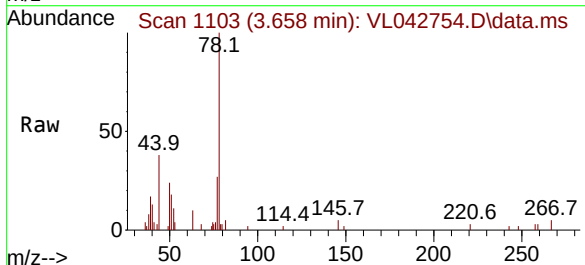
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

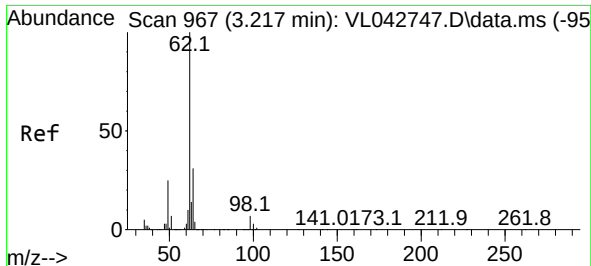
Tgt Ion:	117	Resp:	796
Ion	Ratio	Lower	Upper
117	100		
119	99.9	77.1	115.7
121	29.5	25.5	38.3



#36
Benzene
Concen: 0.030 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:	78	Resp:	1246
Ion	Ratio	Lower	Upper
78	100		
77	25.9	18.5	27.7
50	19.1	16.2	24.2





#37

1,2-Dichloroethane

Concen: 0.044 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

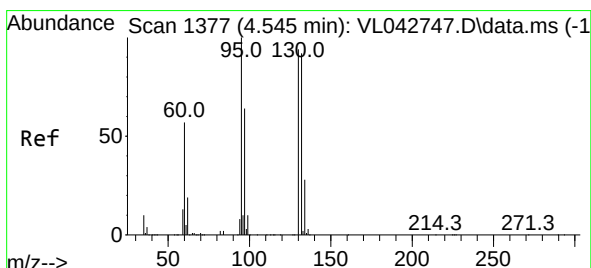
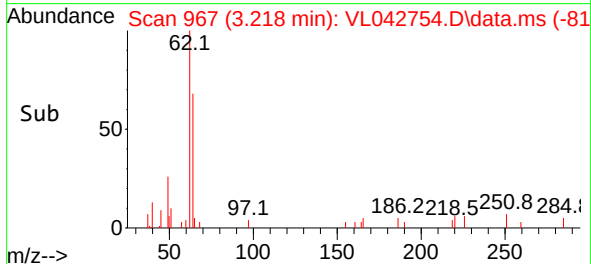
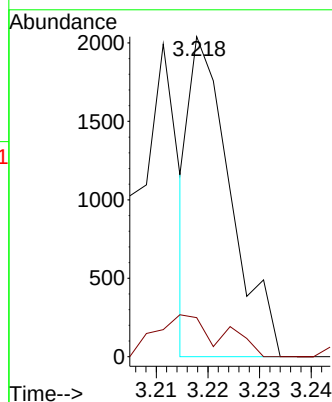
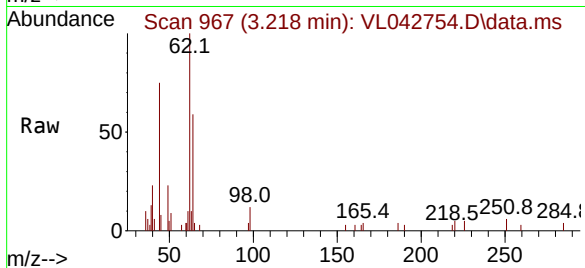
VSTDIC0.1

Tgt Ion: 62 Resp: 1114

Ion Ratio Lower Upper

62 100

98 21.1 5.2 7.8#



#38

Trichloroethene

Concen: 0.017 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion:130 Resp: 333

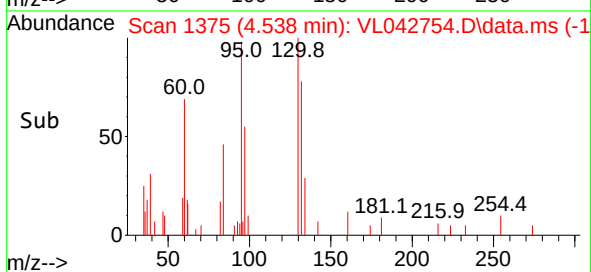
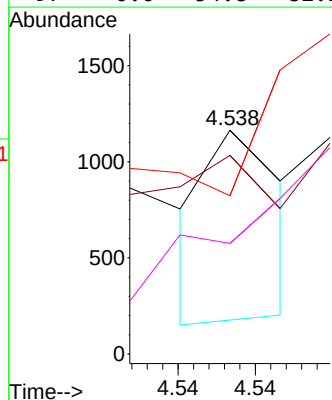
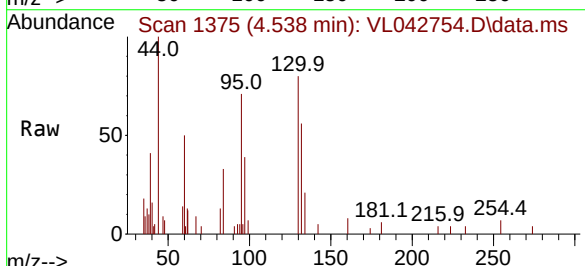
Ion Ratio Lower Upper

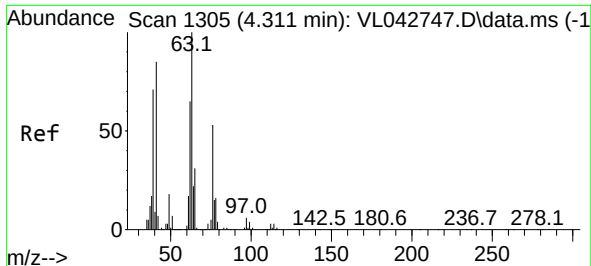
130 100

95 67.3 85.4 128.2#

132 0.0 78.2 117.2#

97 0.0 54.8 82.2#





#39

1,2-Dichloropropane

Concen: 7.376 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

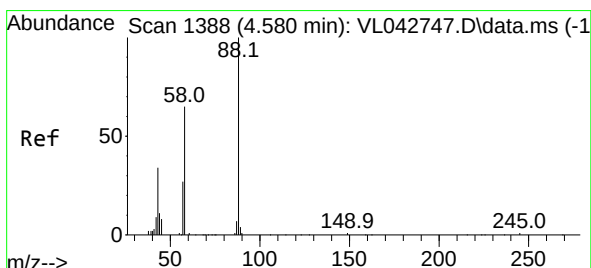
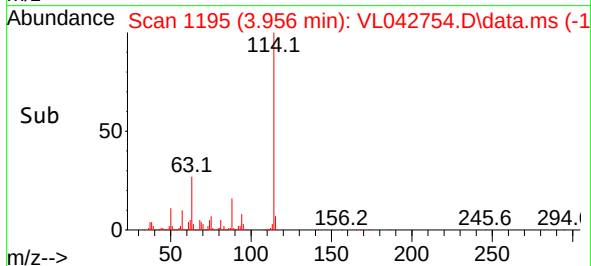
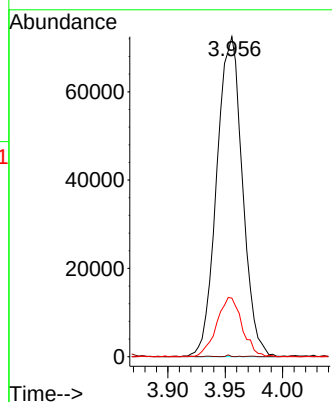
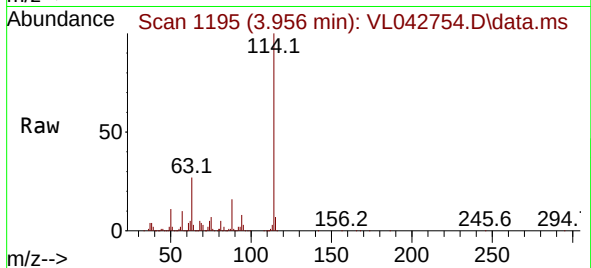
Tgt Ion: 63 Resp: 113176

Ion Ratio Lower Upper

63 100

41 0.1 68.2 102.4#

62 18.3 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.041 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.023 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion: 88 Resp: 294

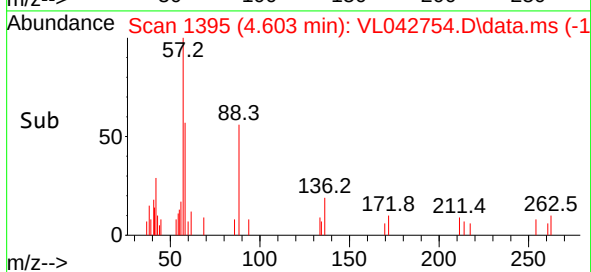
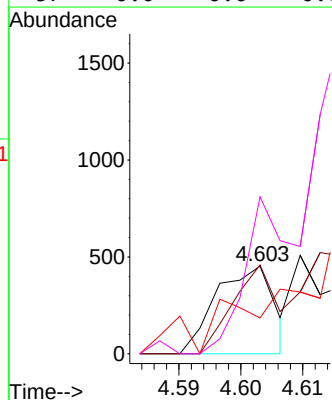
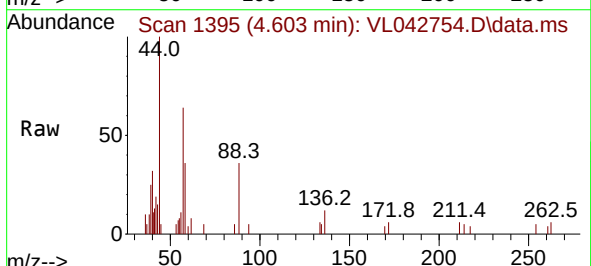
Ion Ratio Lower Upper

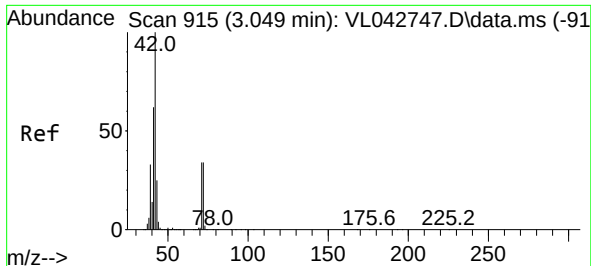
88 100

58 0.0 58.8 88.2#

43 31.0 28.9 43.3

57 0.0 0.0 0.0

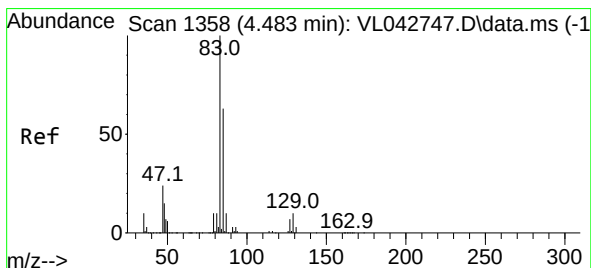
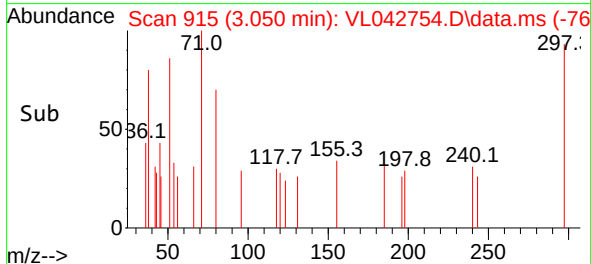
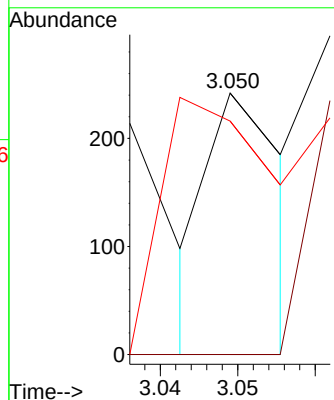
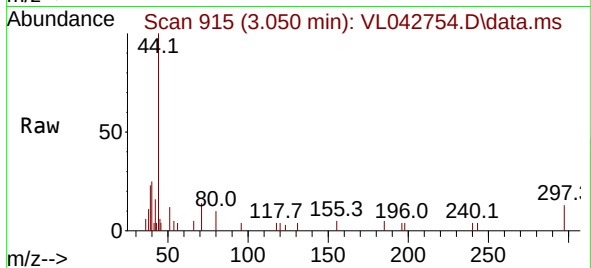




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.050 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

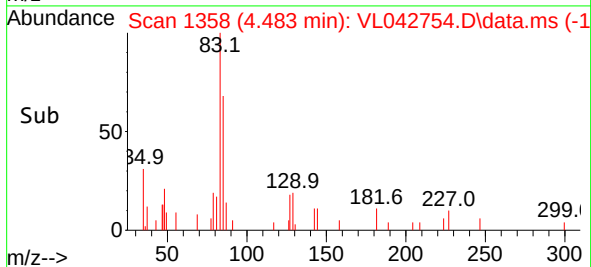
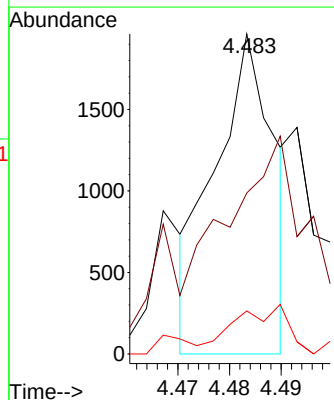
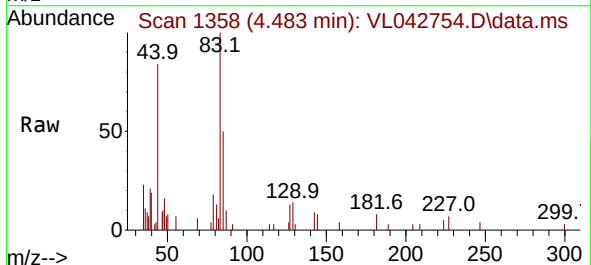
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

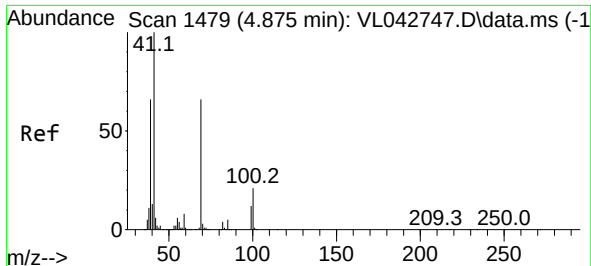
Tgt Ion: 42 Resp: 83
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.048 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 83 Resp: 1563
Ion Ratio Lower Upper
83 100
85 51.2 50.2 75.4
127 14.0 5.4 8.2#

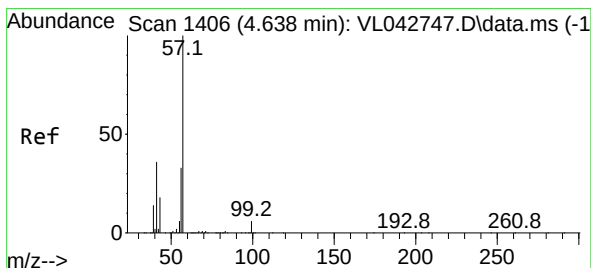
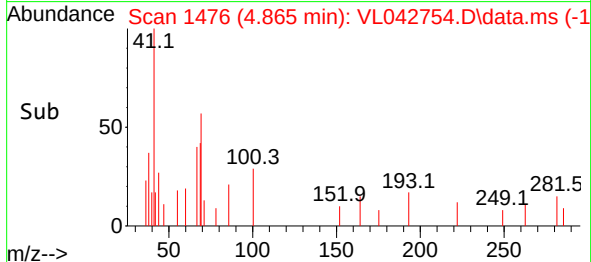
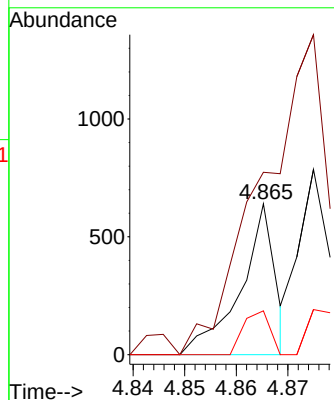
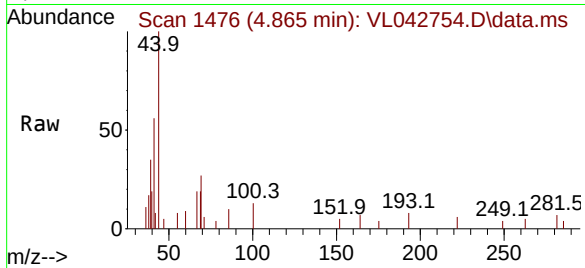




#43
Methyl Methacrylate
Concen: 0.020 ppbv
RT: 4.865 min Scan# 1479
Delta R.T. -0.009 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

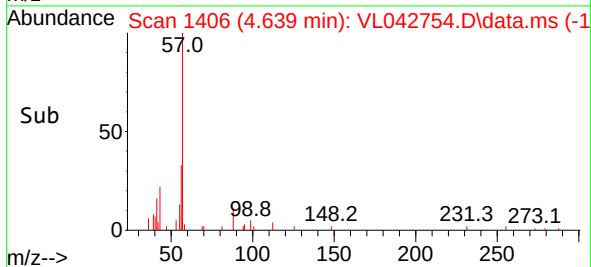
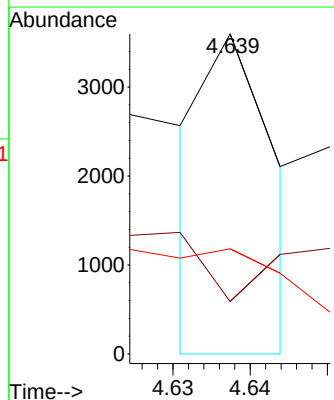
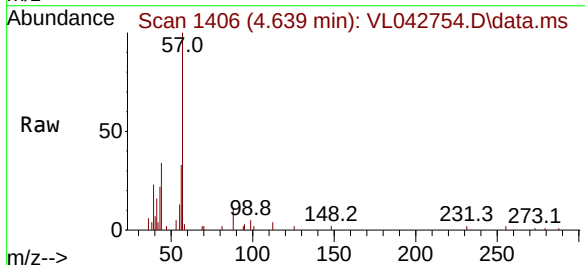
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

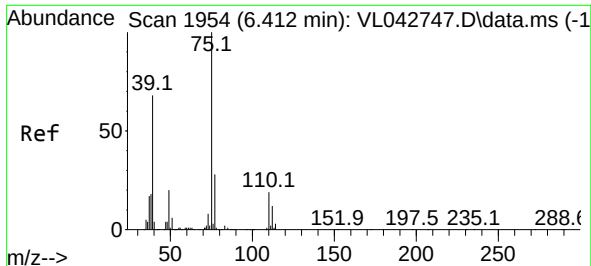
Tgt Ion: 69 Resp: 298
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.016 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 57 Resp: 1109
Ion Ratio Lower Upper
57 100
41 271.4 28.3 42.5#
56 0.0 25.8 38.6#

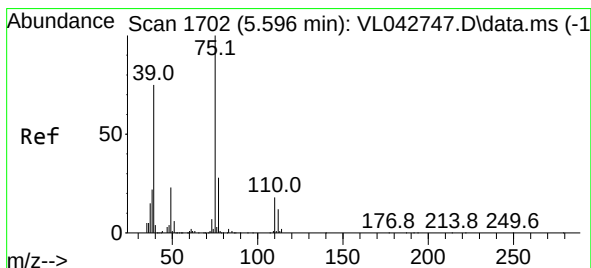
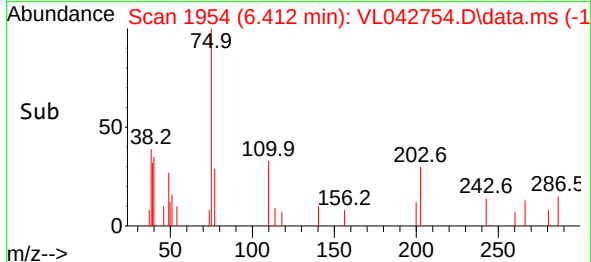
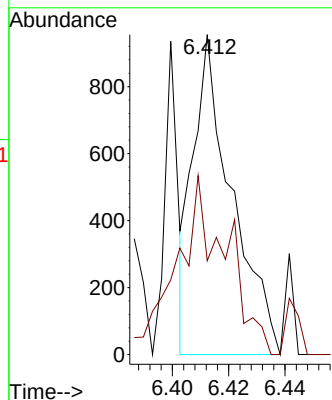
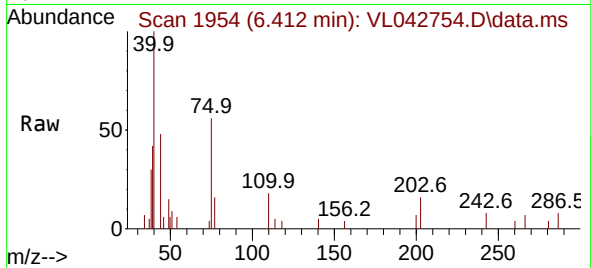




#45
 t-1,3-Dichloropropene
 Concen: 0.055 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

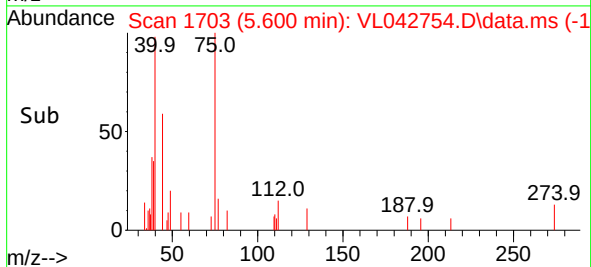
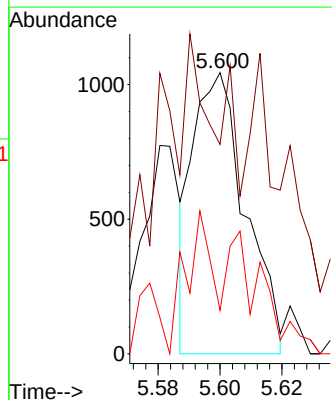
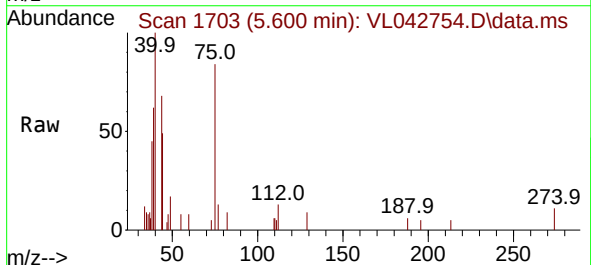
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

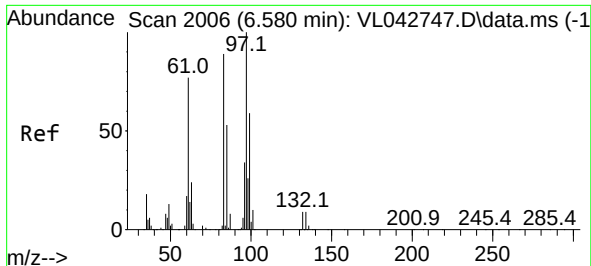
Tgt Ion: 75 Resp: 912
 Ion Ratio Lower Upper
 75 100
 77 29.3 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.059 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. 0.004 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 75 Resp: 1232
 Ion Ratio Lower Upper
 75 100
 39 17.5 60.2 90.2#
 77 11.5 22.6 34.0#





#47

1,1,2-Trichloroethane

Concen: 0.048 ppbv

RT: 6.577 min Scan# 20

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

Tgt Ion: 97 Resp: 787

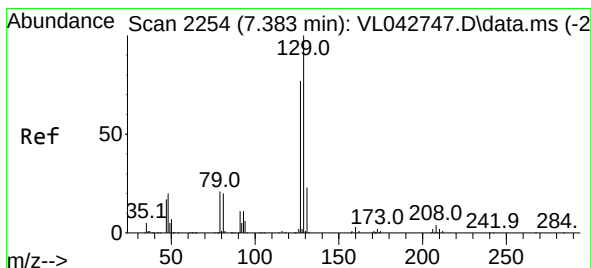
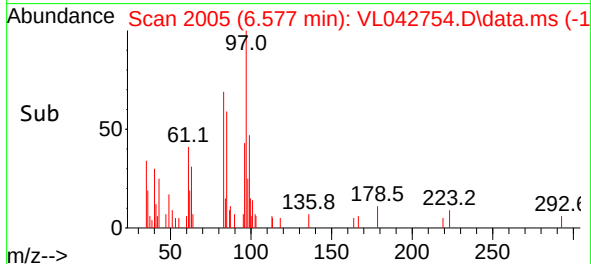
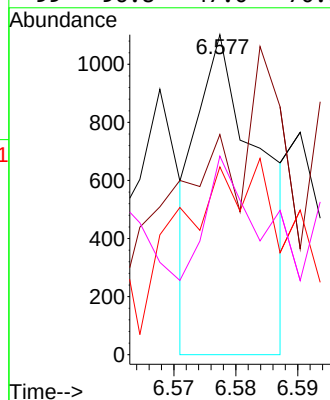
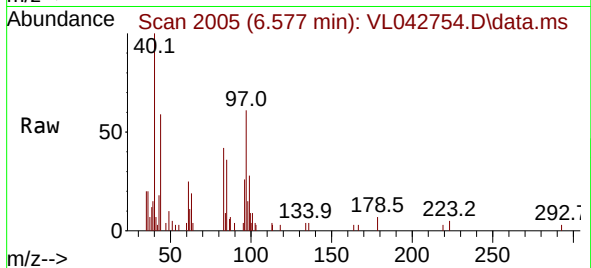
Ion Ratio Lower Upper

97 100

83 35.7 71.1 106.7#

85 67.0 43.0 64.4#

99 96.8 47.0 70.6#



#48

Dibromochloromethane

Concen: 0.061 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042754.D

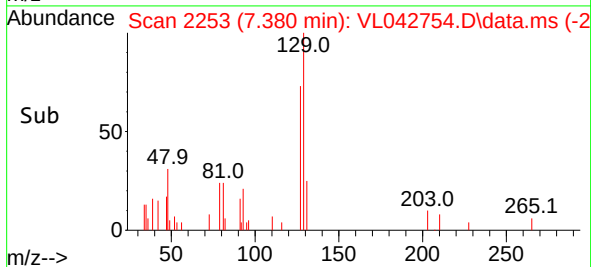
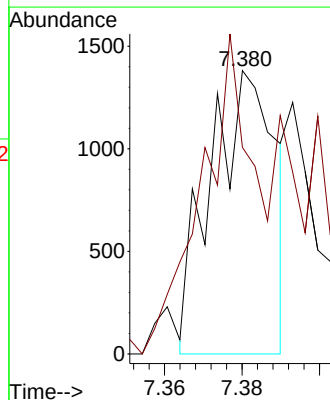
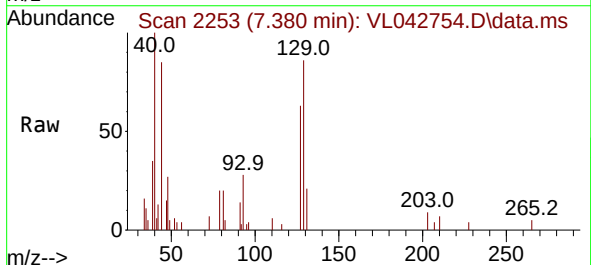
Acq: 23 Jul 2025 13:00

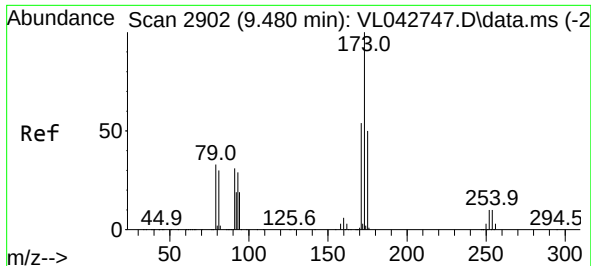
Tgt Ion: 129 Resp: 1591

Ion Ratio Lower Upper

129 100

127 145.4 38.7 116.1#





#49

Bromoform

Concen: 0.053 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

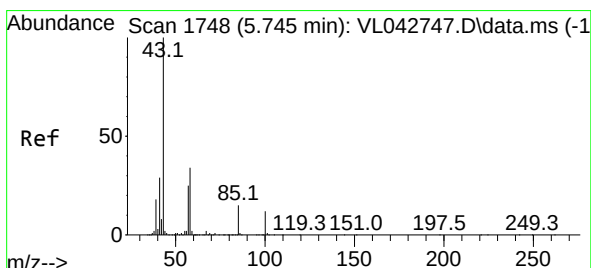
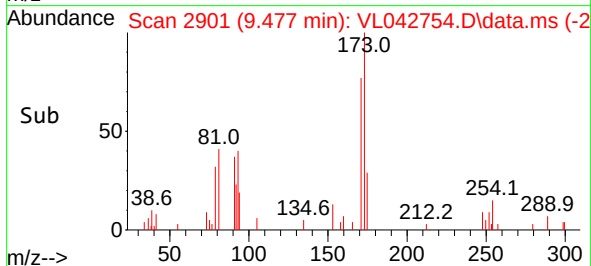
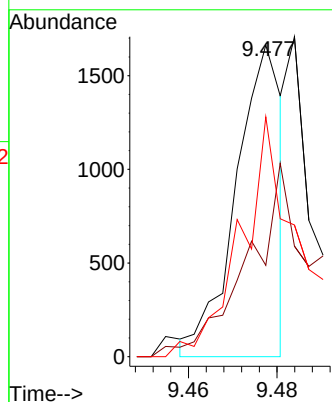
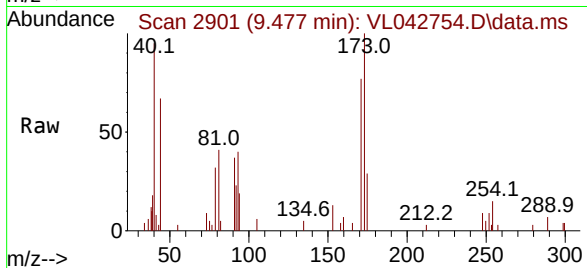
Tgt Ion:173 Resp: 1201

Ion Ratio Lower Upper

173 100

175 0.0 38.4 57.6#

171 100.8 40.9 61.3#



#50

4-Methyl-2-Pentanone

Concen: 0.003 ppbv

RT: 5.739 min Scan# 1746

Delta R.T. -0.006 min

Lab File: VL042754.D

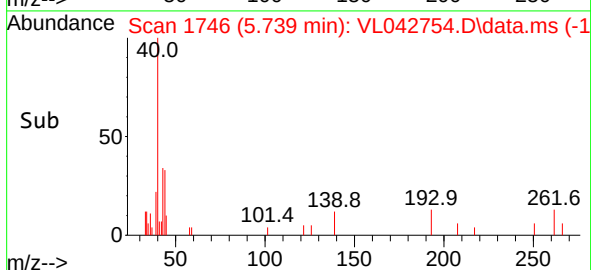
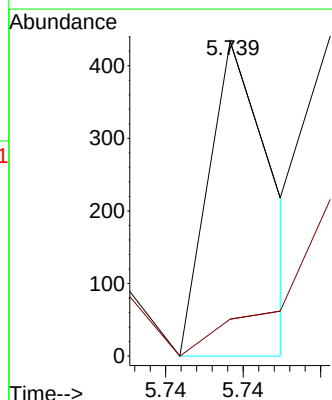
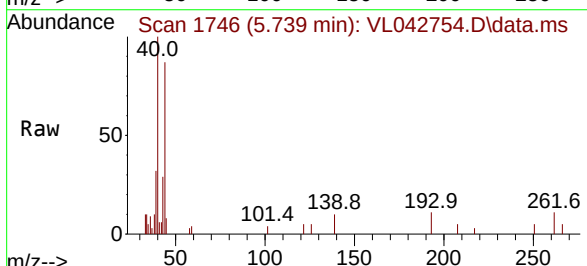
Acq: 23 Jul 2025 13:00

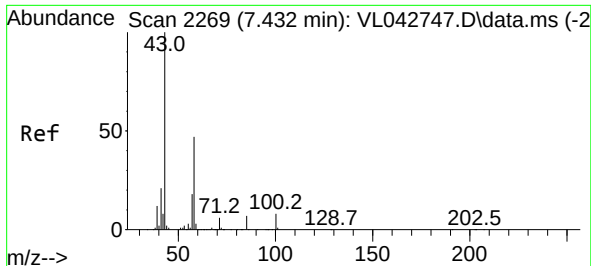
Tgt Ion: 43 Resp: 126

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#

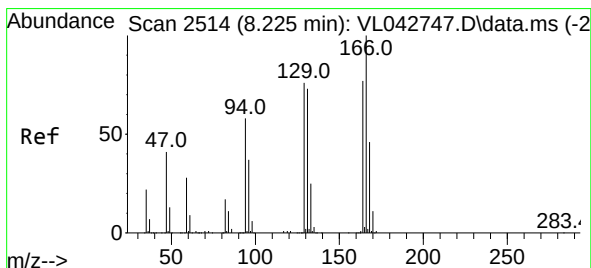
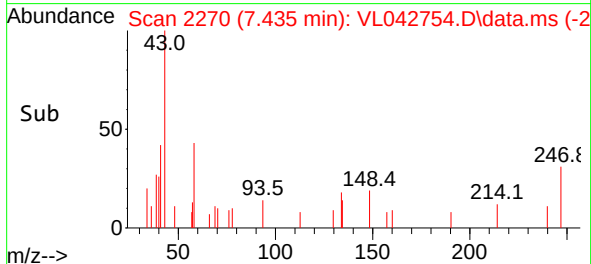
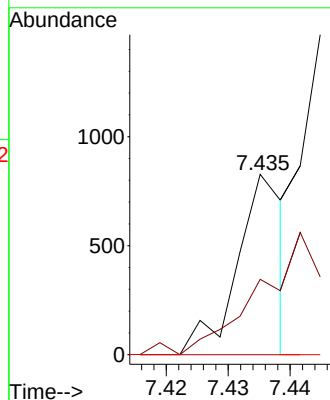
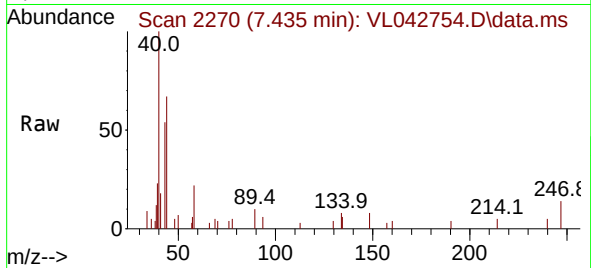




#51
2-Hexanone
Concen: 0.014 ppbv
RT: 7.435 min Scan# 2133
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

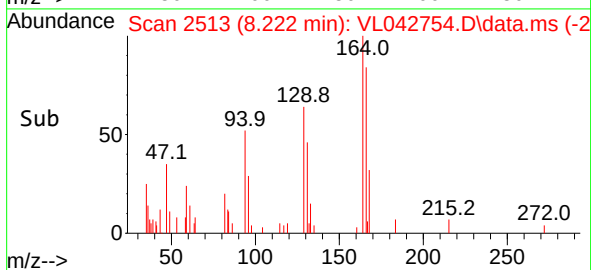
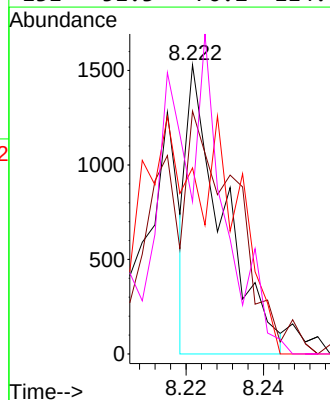
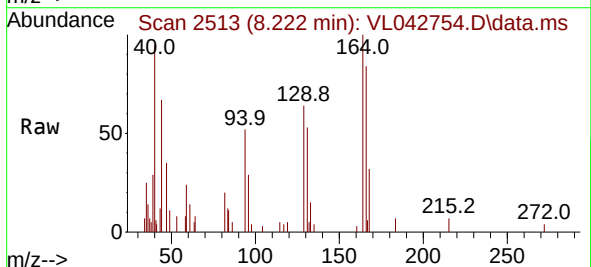
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

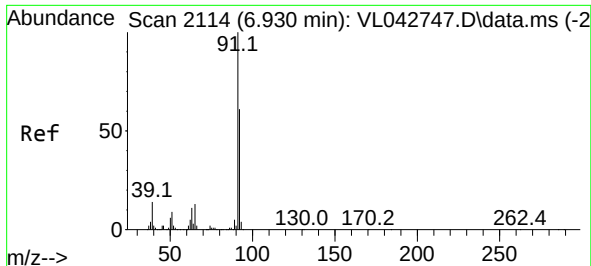
Tgt Ion: 43 Resp: 436
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.057 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 164 Resp: 981
Ion Ratio Lower Upper
164 100
166 85.9 104.0 156.0#
129 69.2 79.2 118.8#
131 51.3 76.2 114.4#

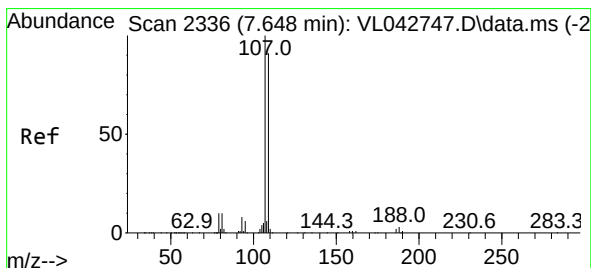
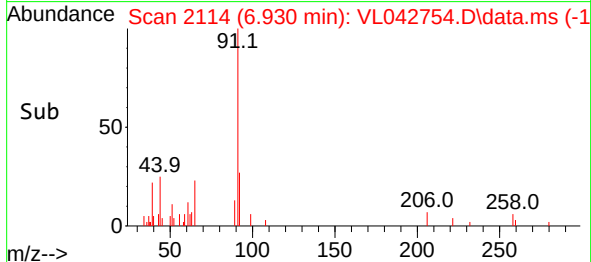
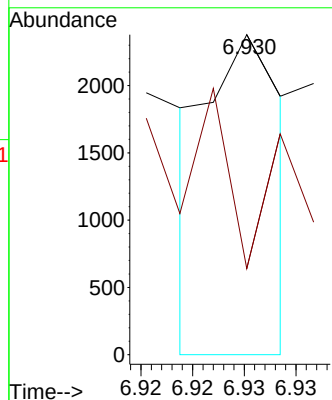
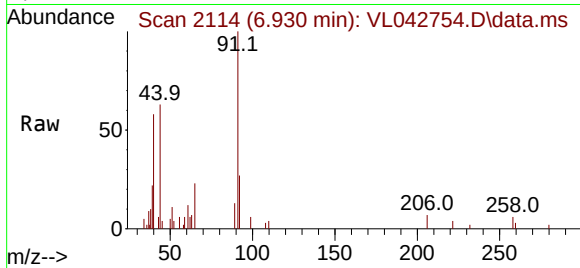




#53
Toluene
Concen: 0.027 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

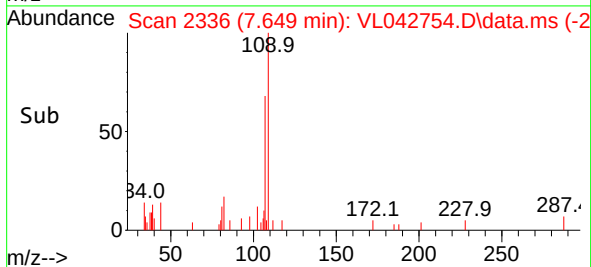
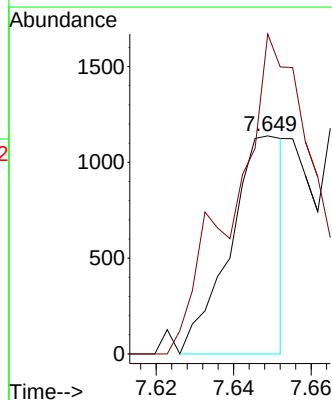
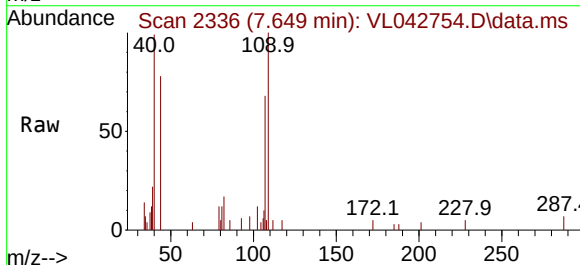
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

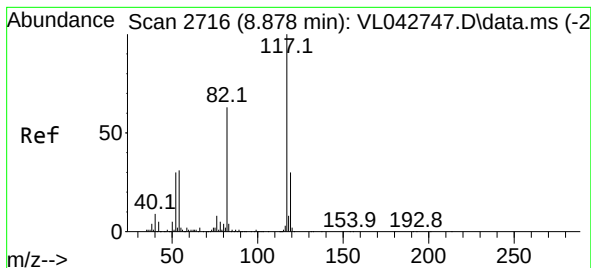
Tgt Ion: 91 Resp: 1198
Ion Ratio Lower Upper
91 100
92 229.3 48.0 72.0#



#54
1,2-Dibromoethane
Concen: 0.047 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 107 Resp: 1080
Ion Ratio Lower Upper
107 100
109 136.0 72.7 109.1#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

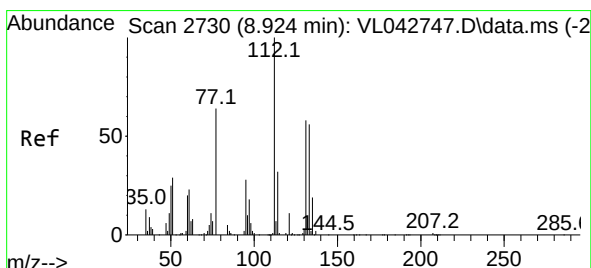
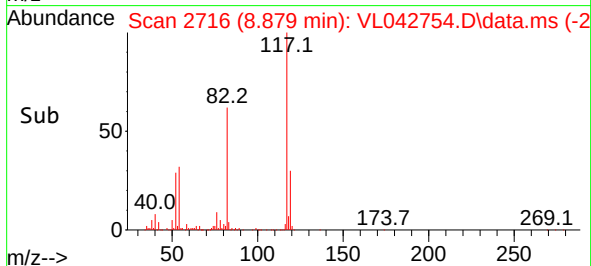
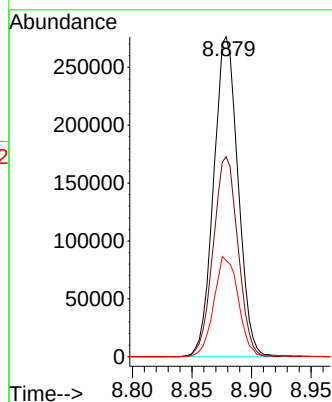
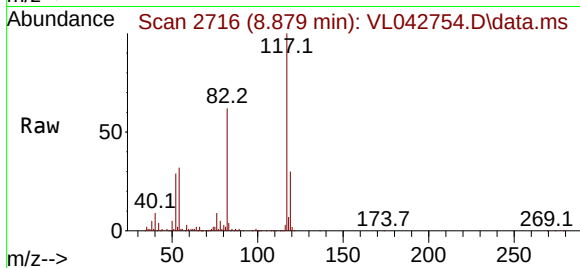
Tgt Ion:117 Resp: 393042

Ion Ratio Lower Upper

117 100

82 63.6 53.3 79.9

119 31.7 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.045 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

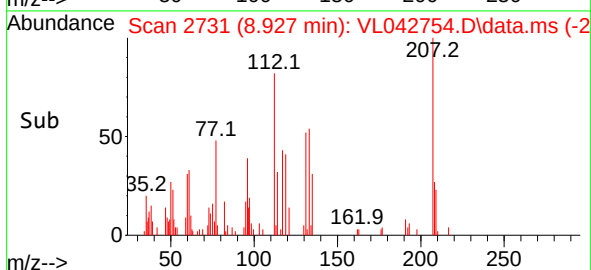
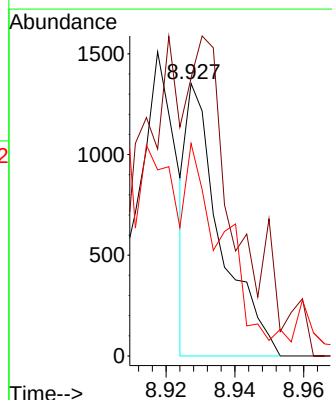
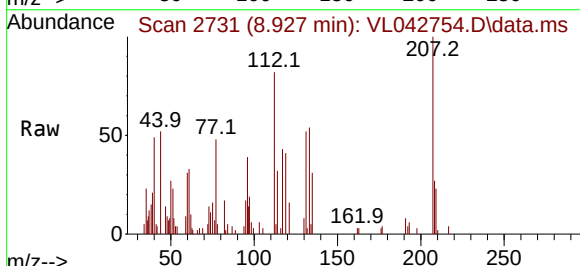
Tgt Ion:131 Resp: 922

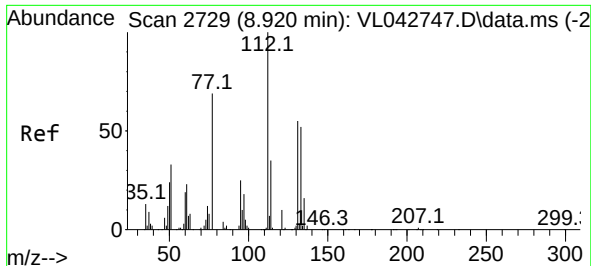
Ion Ratio Lower Upper

131 100

133 315.4 76.8 115.2#

119 0.0 49.7 74.5#

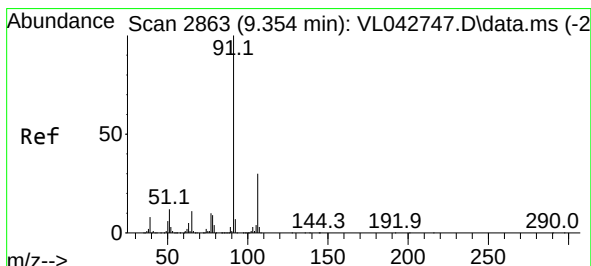
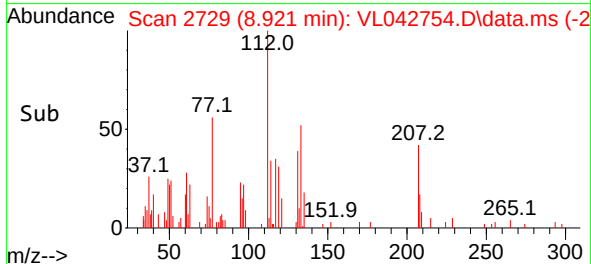
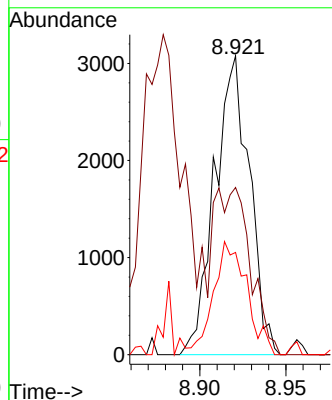
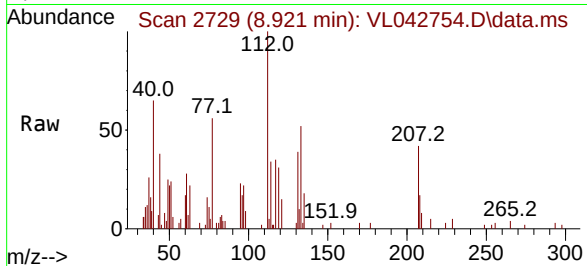




#57
Chlorobenzene
Concen: 0.114 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

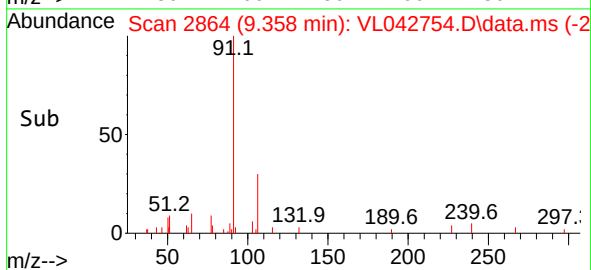
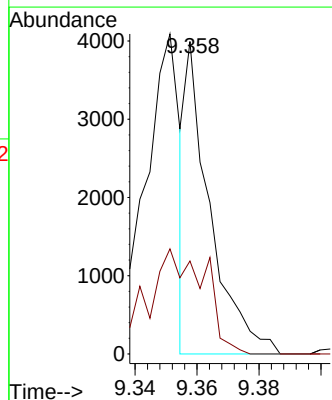
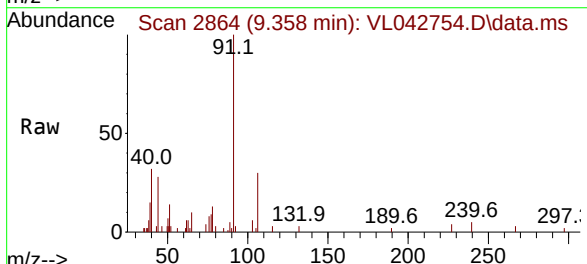
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

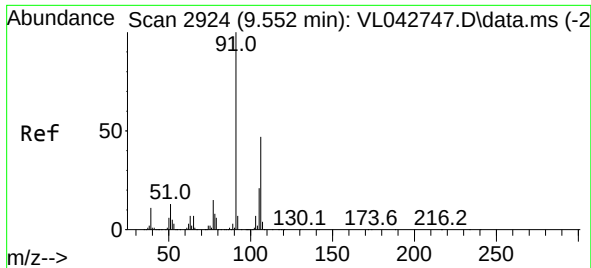
Tgt Ion:112 Resp: 4337
Ion Ratio Lower Upper
112 100
77 55.9 56.4 84.6#
114 34.2 31.2 38.2



#58
Ethyl Benzene
Concen: 0.035 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 2183
Ion Ratio Lower Upper
91 100
106 29.8 23.8 35.6

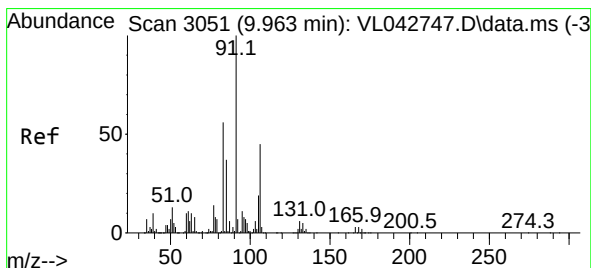
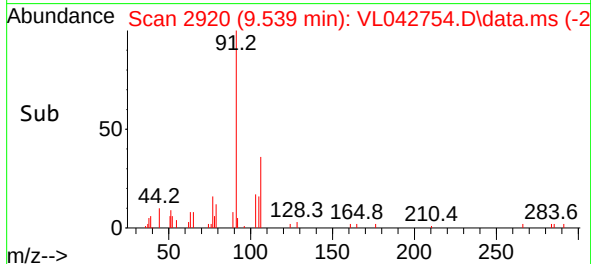
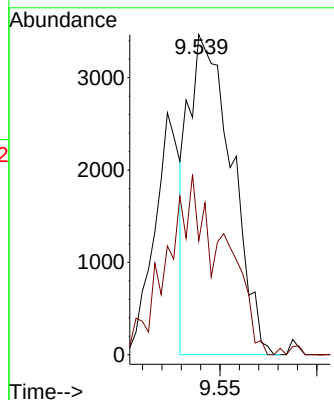
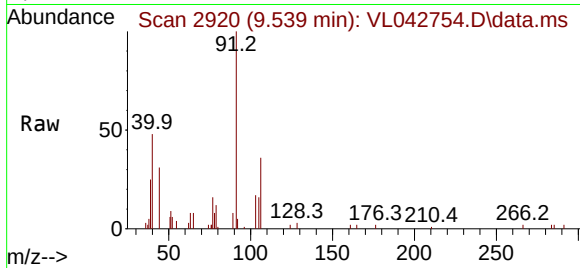




#59
m/p-Xylene
Concen: 0.109 ppbv
RT: 9.539 min Scan# 2924
Delta R.T. -0.013 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

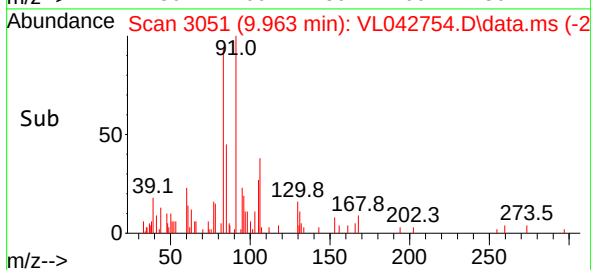
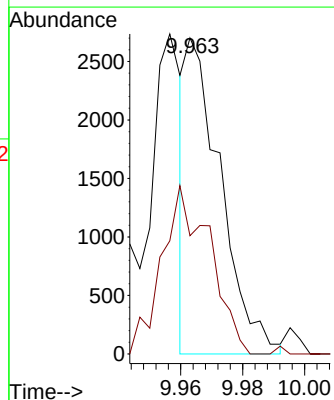
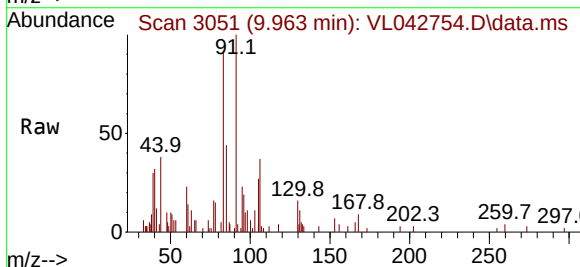
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

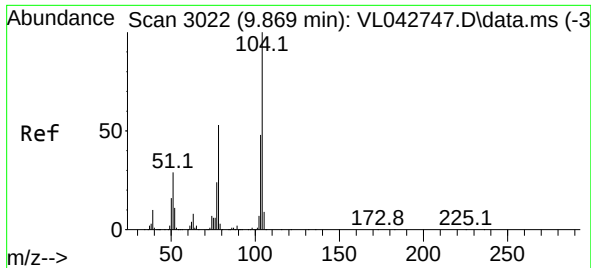
Tgt Ion: 91 Resp: 5405
Ion Ratio Lower Upper
91 100
106 73.2 37.4 56.2#



#60
o-Xylene
Concen: 0.042 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 2101
Ion Ratio Lower Upper
91 100
106 74.2 22.0 66.0#





#61

Styrene

Concen: 0.039 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

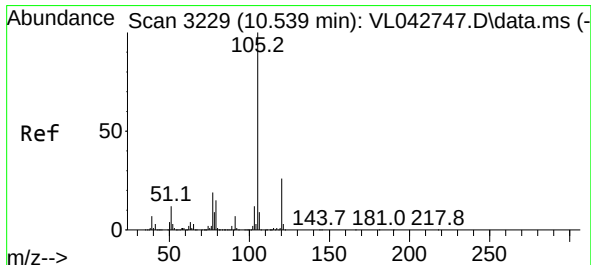
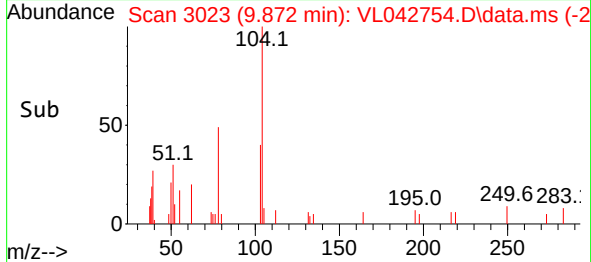
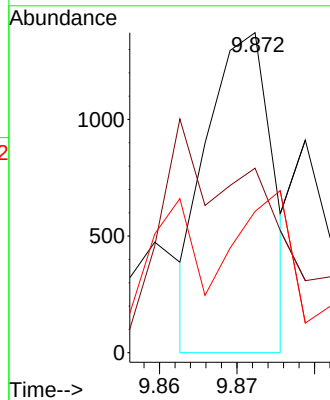
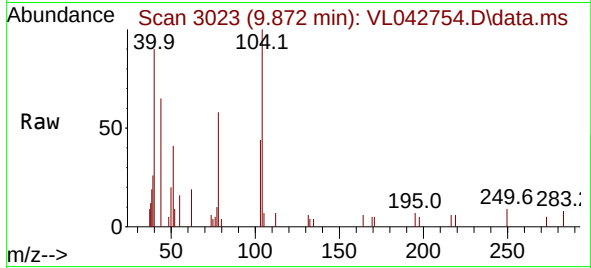
Tgt Ion:104 Resp: 807

Ion Ratio Lower Upper

104 100

78 0.0 41.5 62.3#

103 91.7 37.5 56.3#



#62

Isopropylbenzene

Concen: 0.082 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042754.D

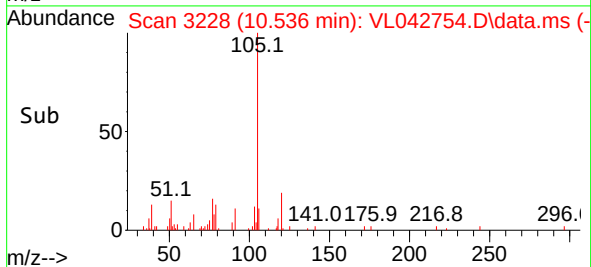
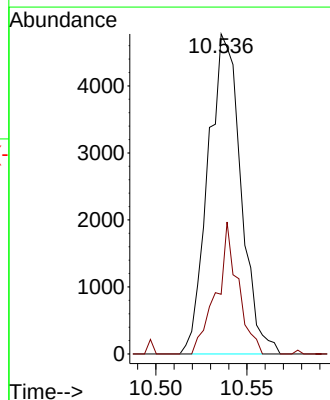
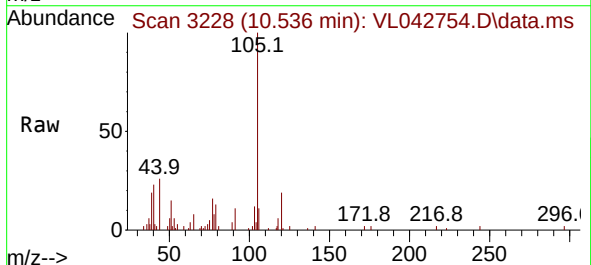
Acq: 23 Jul 2025 13:00

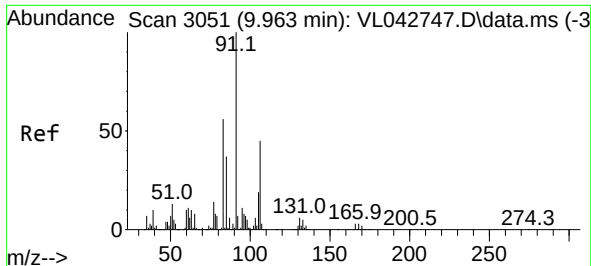
Tgt Ion:105 Resp: 5985

Ion Ratio Lower Upper

105 100

120 27.1 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.062 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

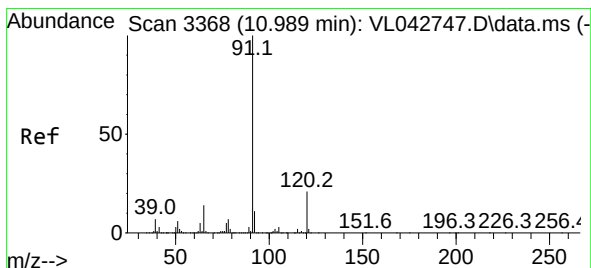
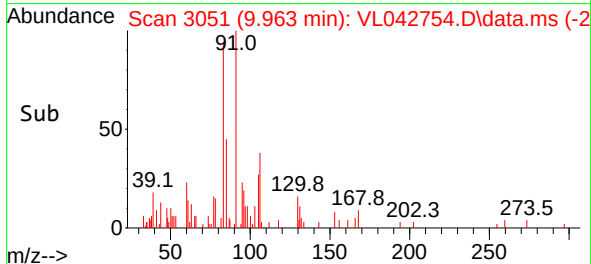
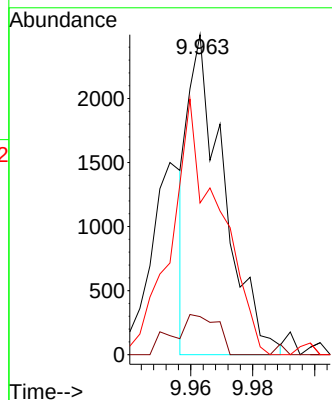
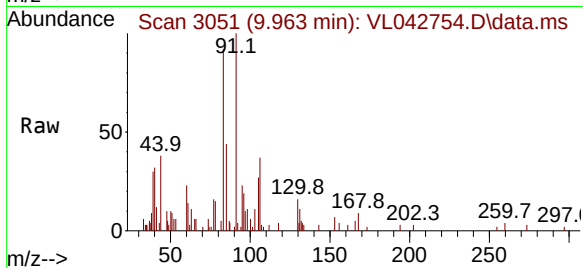
Tgt Ion: 83 Resp: 1989

Ion Ratio Lower Upper

83 100

131 16.8 5.0 15.0#

85 109.7 32.6 97.7#



#64

n-propylbenzene

Concen: 0.003 ppbv

RT: 11.025 min Scan# 3379

Delta R.T. 0.036 min

Lab File: VL042754.D

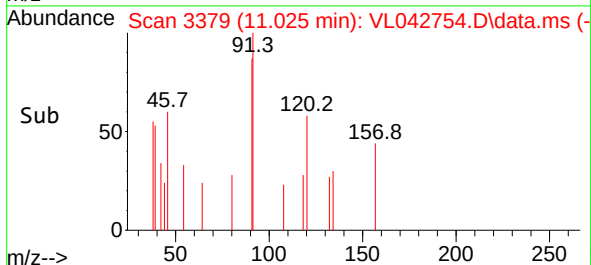
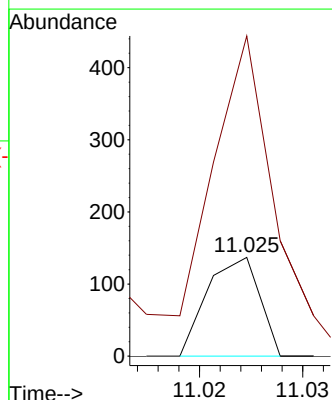
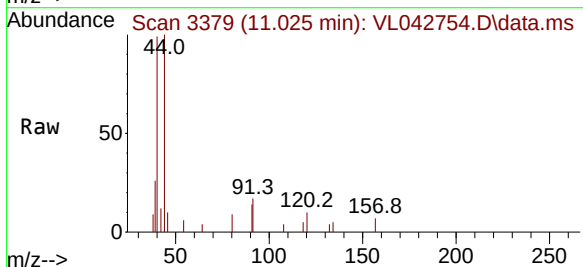
Acq: 23 Jul 2025 13:00

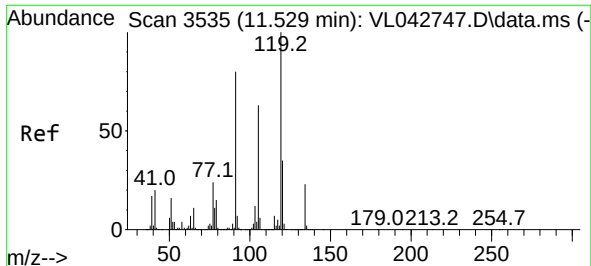
Tgt Ion: 120 Resp: 48

Ion Ratio Lower Upper

120 100

91 397.9 372.7 559.1

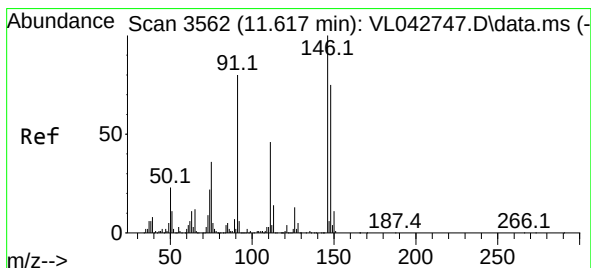
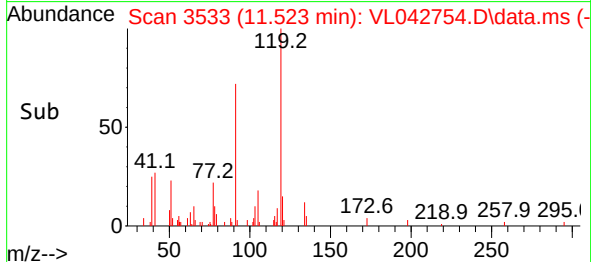
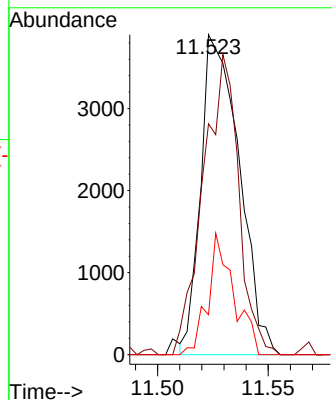
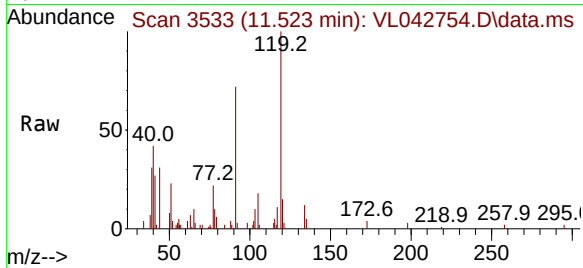




#65
tert-Butylbenzene
Concen: 0.072 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. -0.006 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

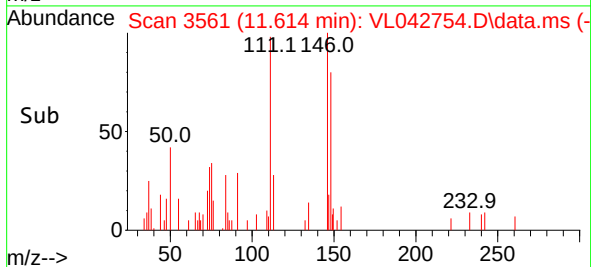
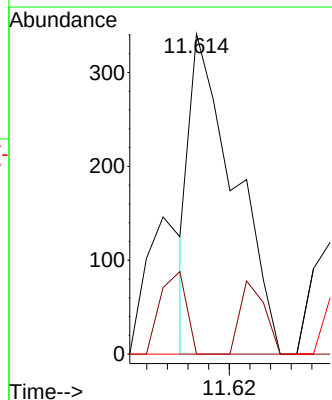
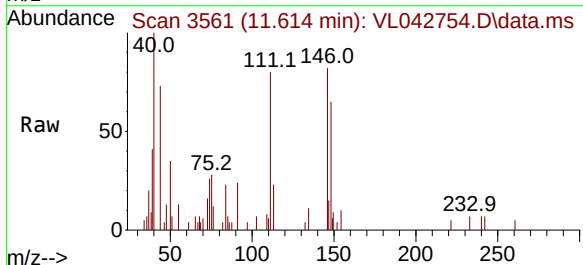
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

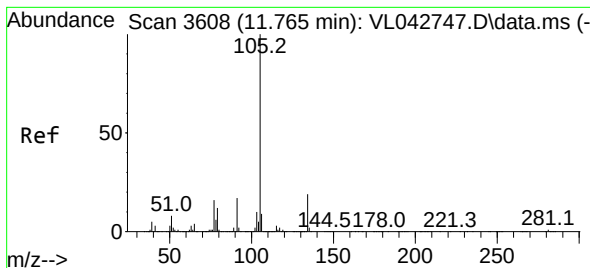
Tgt Ion: 119 Resp: 4707
Ion Ratio Lower Upper
119 100
91 88.0 64.0 96.0
134 25.6 17.3 25.9



#66
Benzyl Chloride
Concen: 0.038 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 204
Ion Ratio Lower Upper
91 100
126 27.9 14.4 21.6#
128 0.0 5.2 7.8#





#67

sec-Butylbenzene

Concen: 0.070 ppbv

RT: 11.766 min Scan# 3608

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

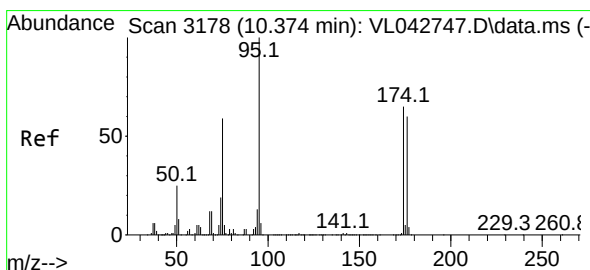
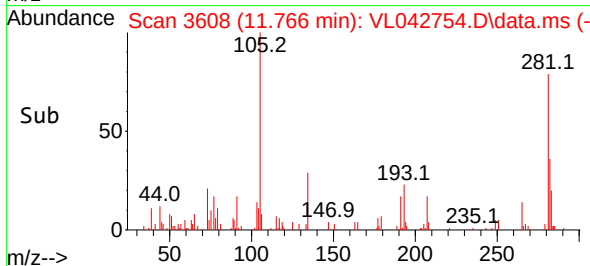
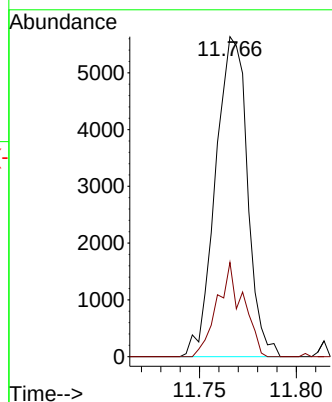
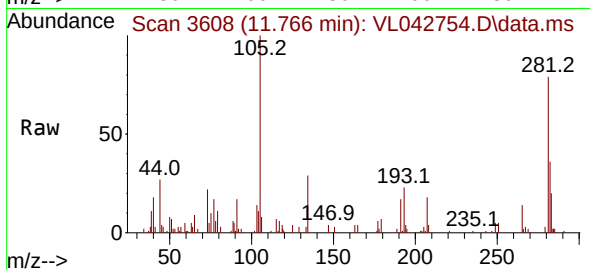
VSTDIC0.1

Tgt Ion:105 Resp: 6449

Ion Ratio Lower Upper

105 100

134 24.1 15.5 23.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.583 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

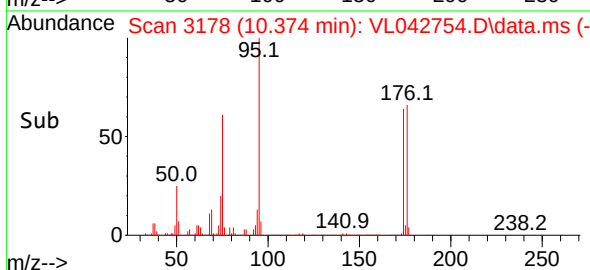
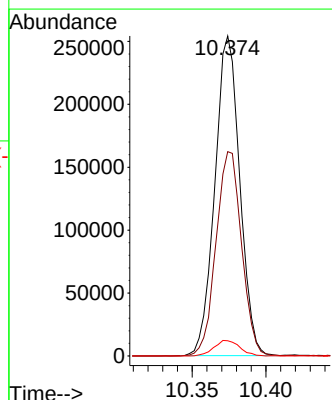
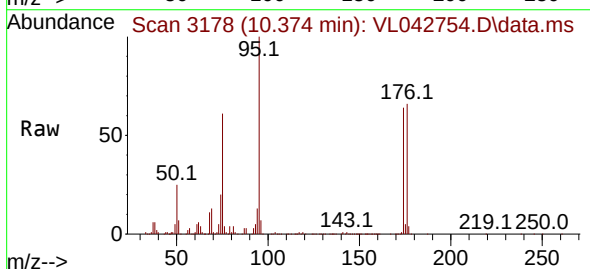
Tgt Ion: 95 Resp: 298283

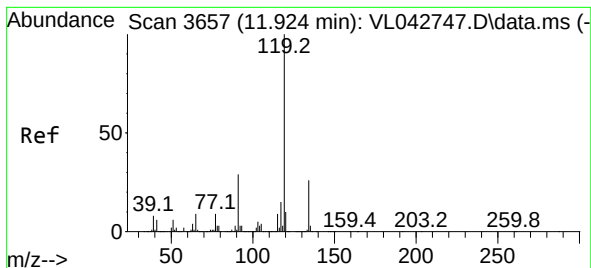
Ion Ratio Lower Upper

95 100

174 65.8 53.8 80.6

175 5.0 4.0 6.0

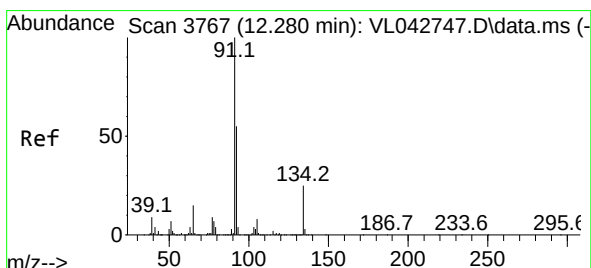
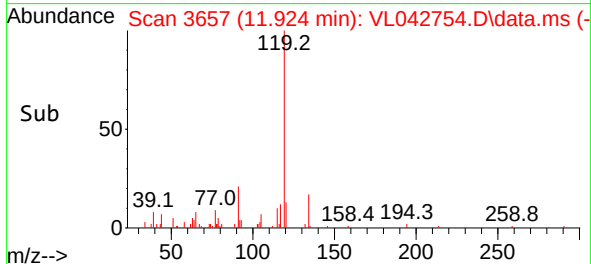
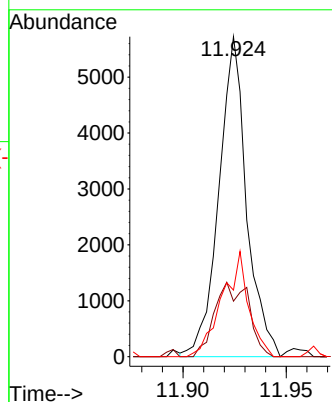
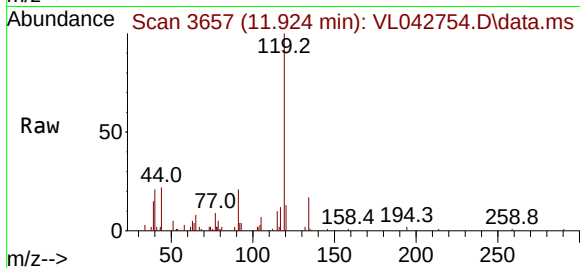




#69
p-Isopropyltoluene
Concen: 0.071 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

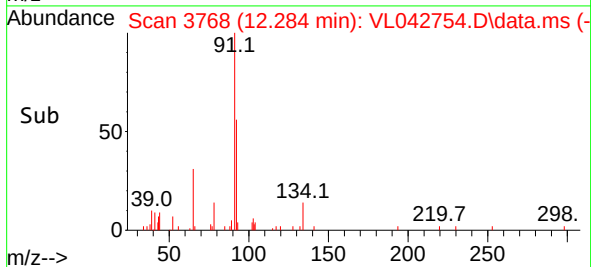
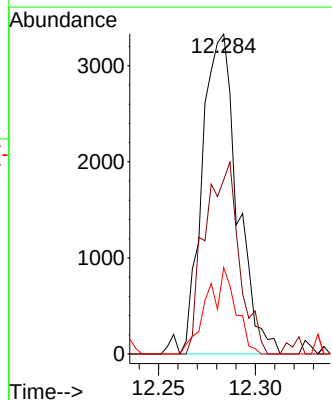
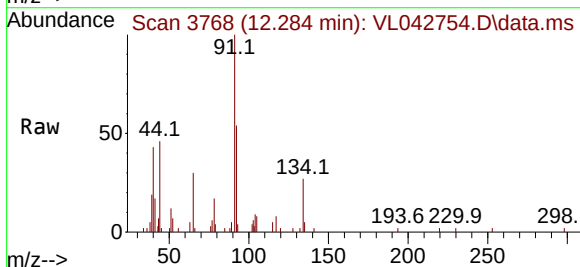
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

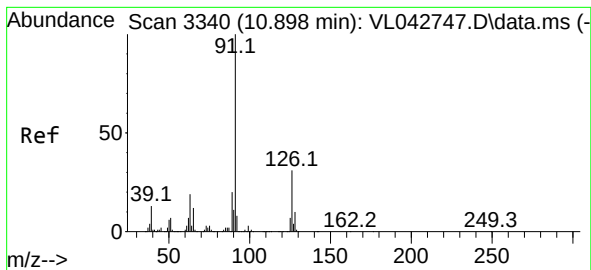
Tgt Ion:119 Resp: 5342
Ion Ratio Lower Upper
119 100
134 29.1 20.6 31.0
91 32.5 23.2 34.8



#70
n-Butylbenzene
Concen: 0.058 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 91 Resp: 4198
Ion Ratio Lower Upper
91 100
92 60.2 43.4 65.2
134 23.3 19.6 29.4

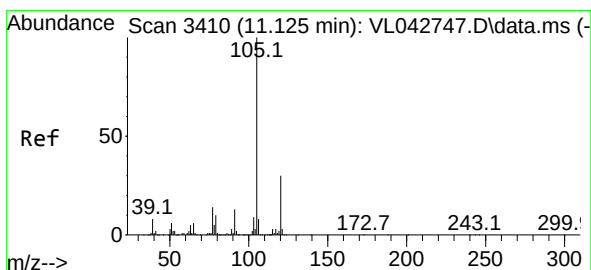
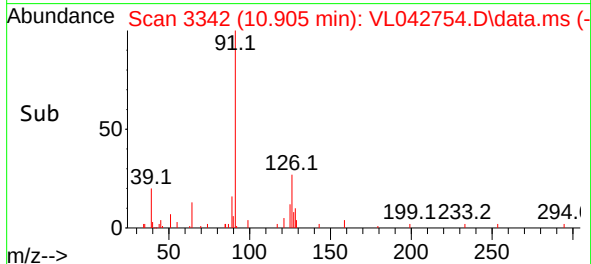
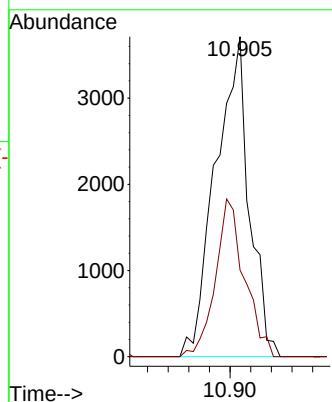
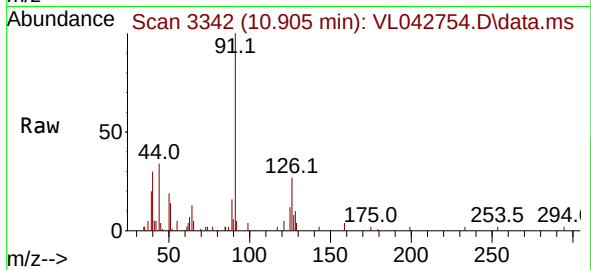




#71
2-Chlorotoluene
Concen: 0.075 ppbv
RT: 10.905 min Scan# 3110
Delta R.T. 0.007 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

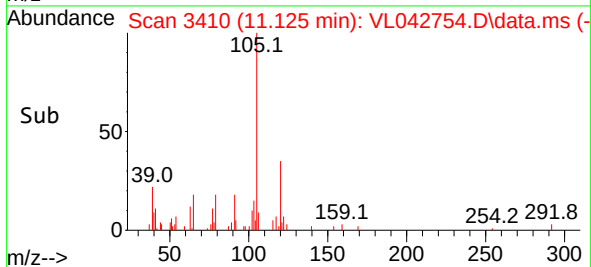
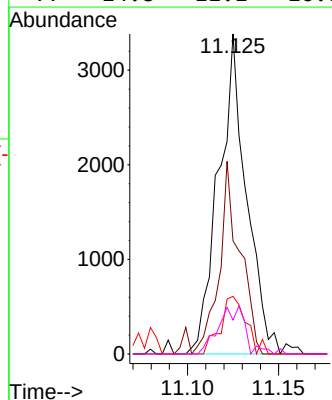
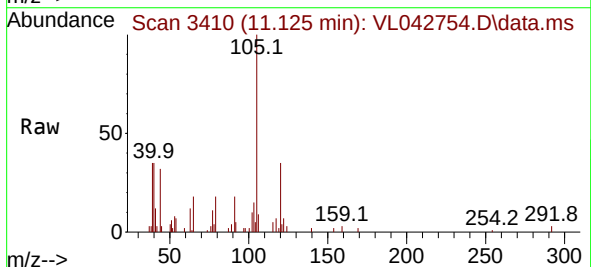
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

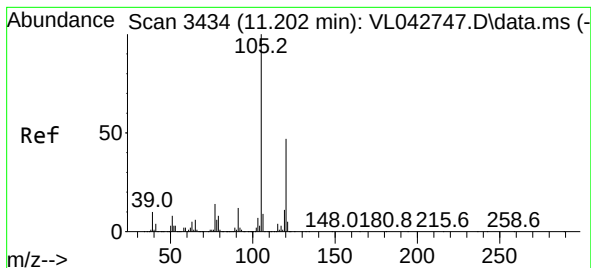
Tgt Ion: 91 Resp: 4180
Ion Ratio Lower Upper
91 100
126 42.8 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.061 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 105 Resp: 3597
Ion Ratio Lower Upper
105 100
120 46.2 24.4 36.6#
91 16.8 10.6 15.8#
77 14.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.074 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

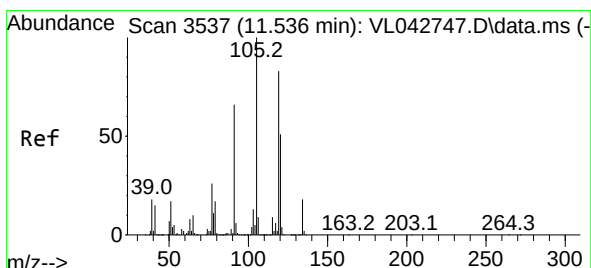
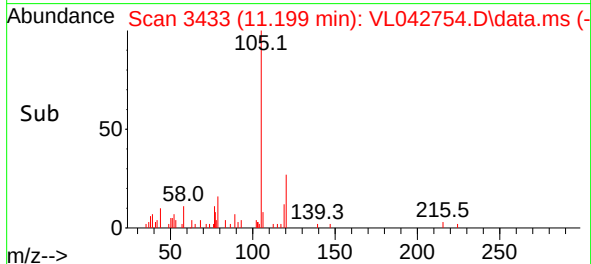
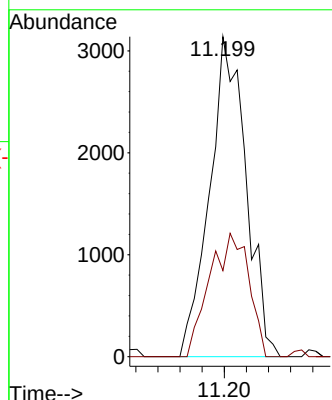
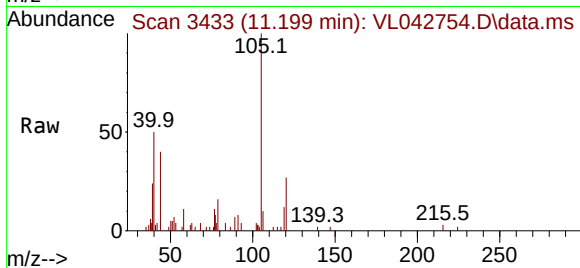
VSTDIC0.1

Tgt Ion:105 Resp: 3603

Ion Ratio Lower Upper

105 100

120 26.9 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.072 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion:105 Resp: 3826

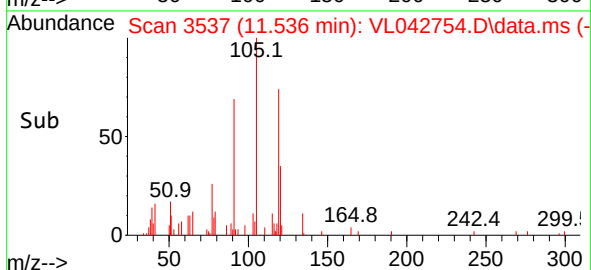
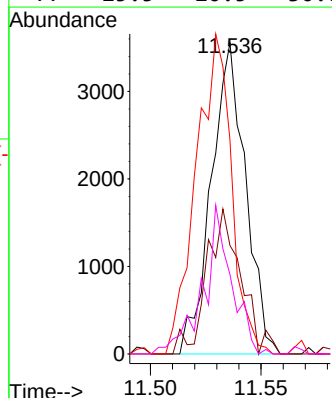
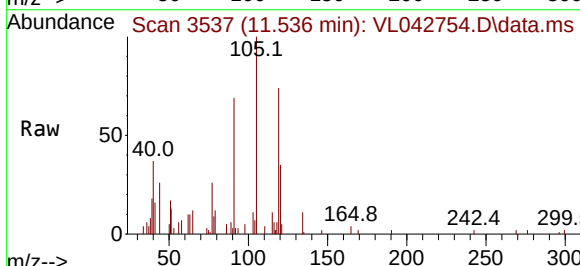
Ion Ratio Lower Upper

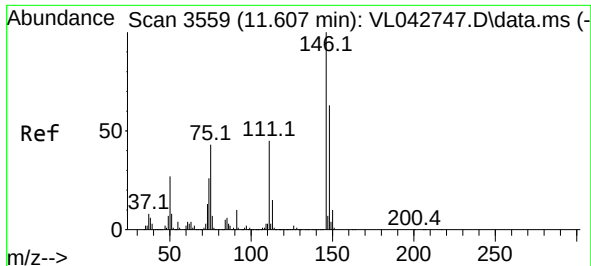
105 100

120 34.8 40.8 61.2#

91 68.7 53.0 79.4

77 25.5 20.5 30.7

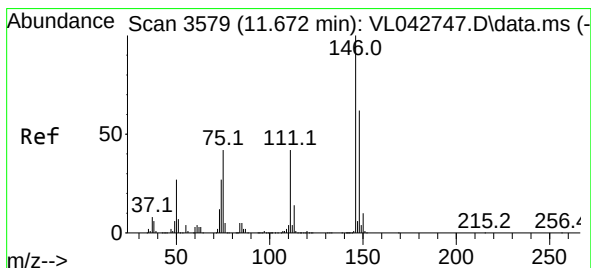
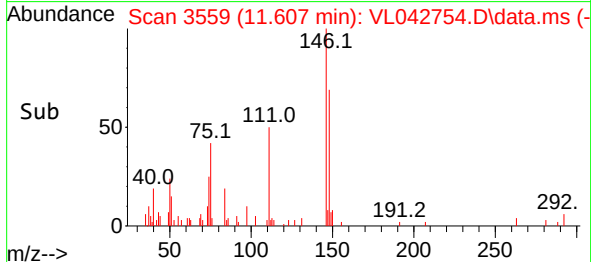
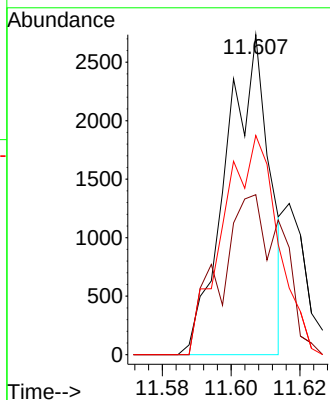
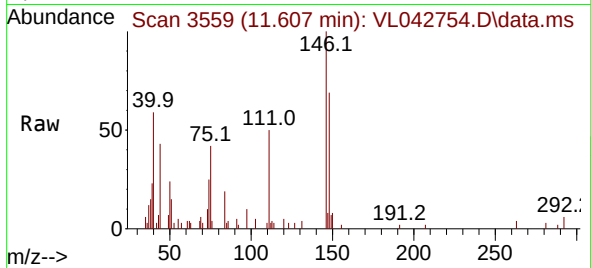




#75
1,3-Dichlorobenzene
Concen: 0.065 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

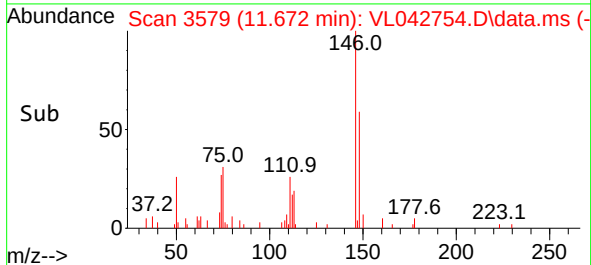
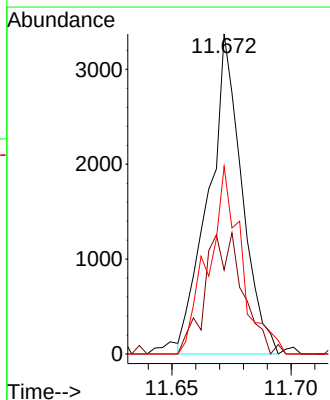
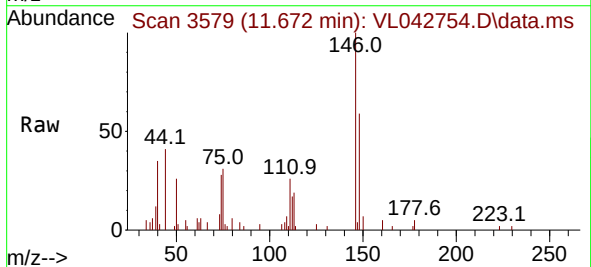
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

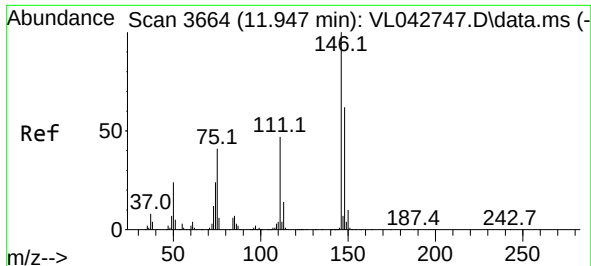
Tgt Ion:146 Resp: 2417
Ion Ratio Lower Upper
146 100
111 70.0 22.7 68.0#
148 86.3 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 0.090 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:146 Resp: 3265
Ion Ratio Lower Upper
146 100
111 43.3 21.4 64.2
148 58.6 32.1 96.3

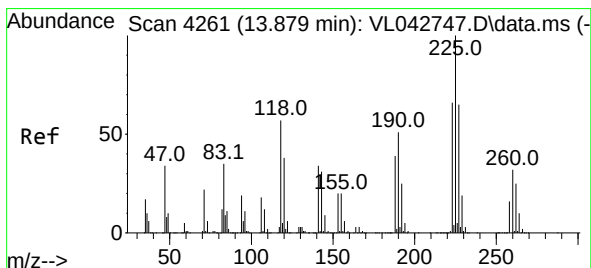
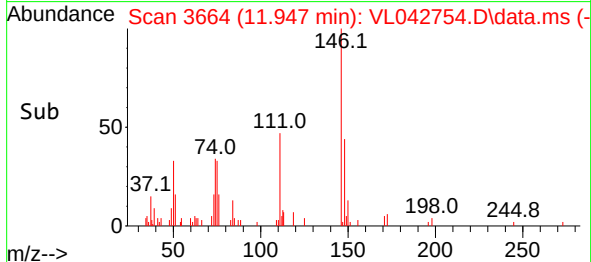
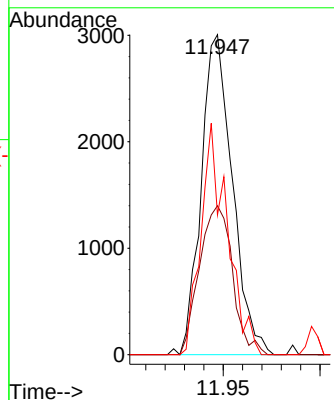
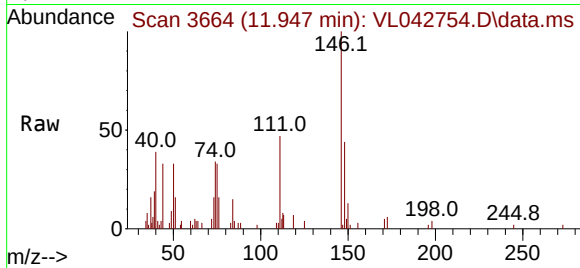




#77
1,2-Dichlorobenzene
Concen: 0.092 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

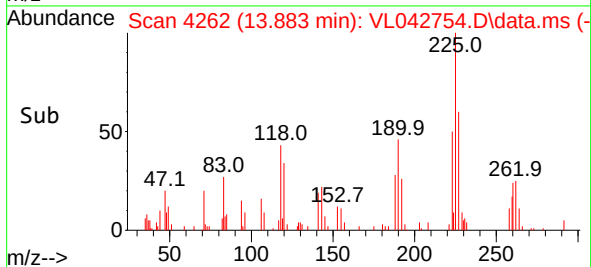
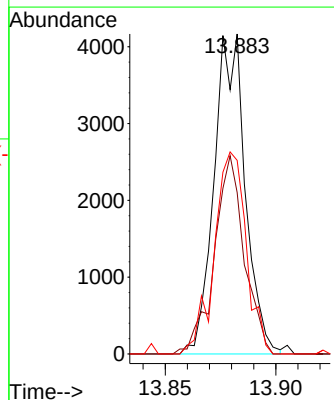
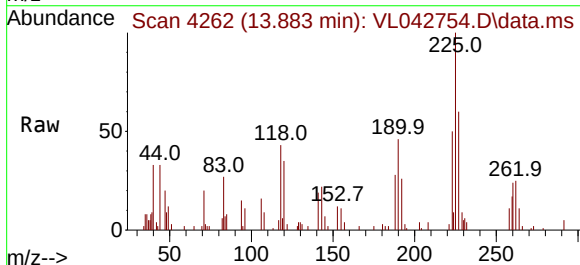
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

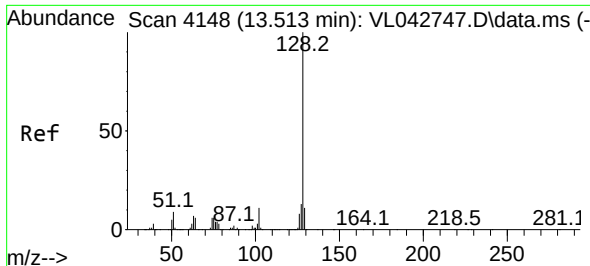
Tgt Ion:	146	Resp:	3354
Ion	Ratio	Lower	Upper
146	100		
111	49.5	23.7	71.1
148	61.6	32.6	97.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.123 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:	225	Resp:	4077
Ion	Ratio	Lower	Upper
225	100		
223	59.6	50.7	76.1
227	64.7	50.5	75.7

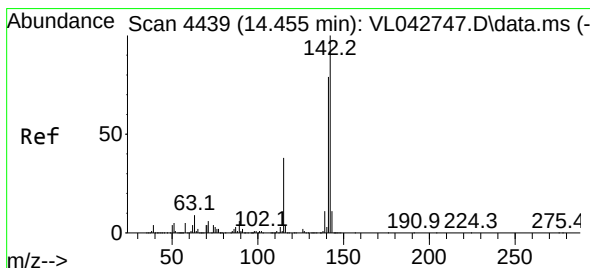
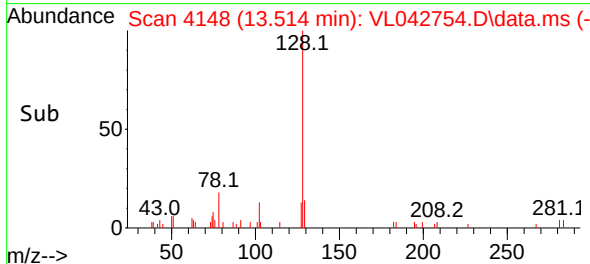
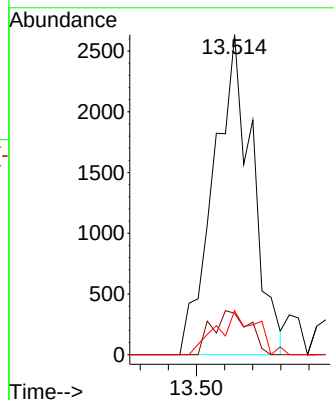
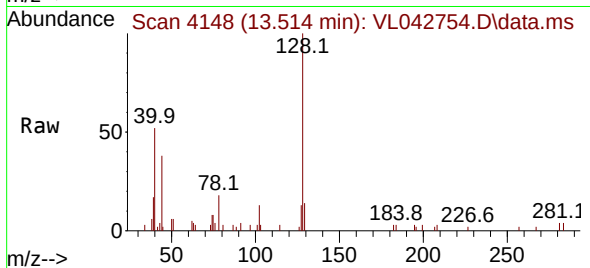




#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

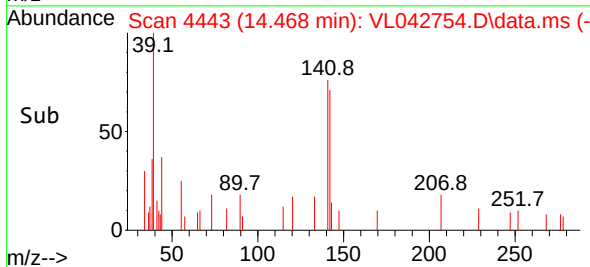
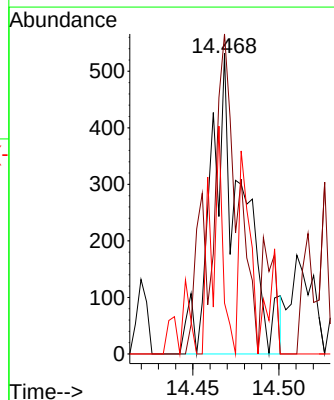
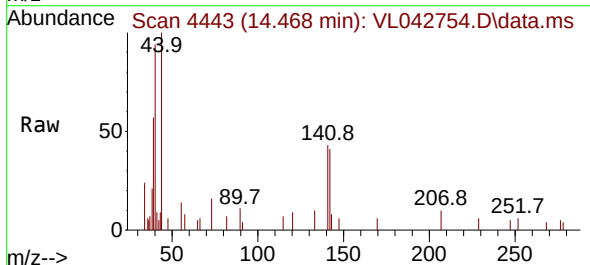
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

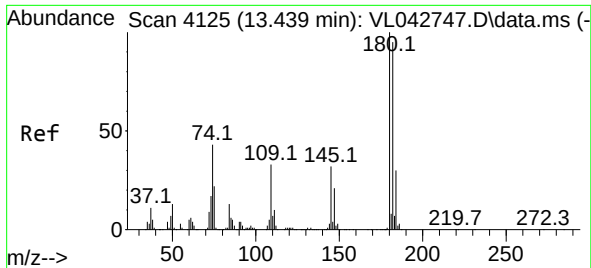
Tgt Ion:128 Resp: 2509
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.7 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.147 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.013 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:142 Resp: 676
Ion Ratio Lower Upper
142 100
141 103.7 65.8 98.8#
115 65.2 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.475 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042754.D

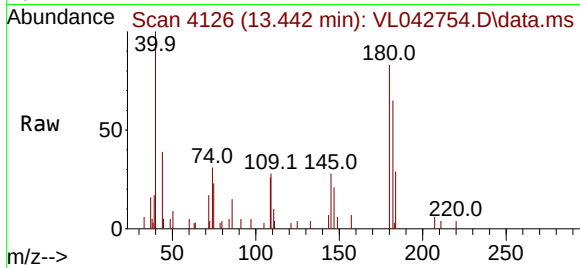
Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1



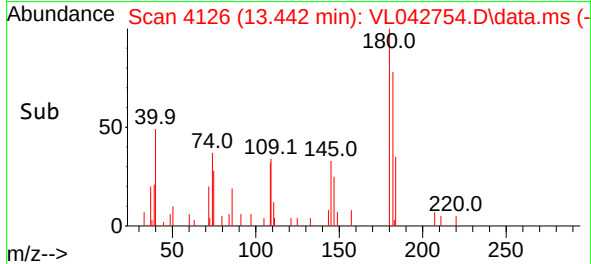
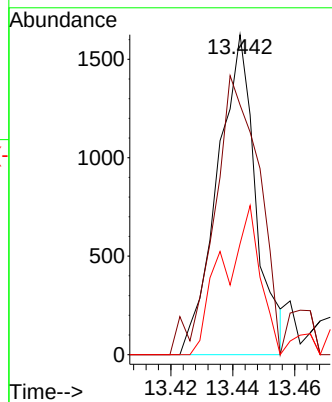
Tgt Ion:180 Resp: 1396

Ion Ratio Lower Upper

180 100

182 110.8 76.2 114.2

184 53.7 24.8 37.2#



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

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

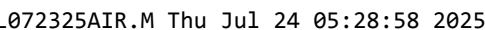
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

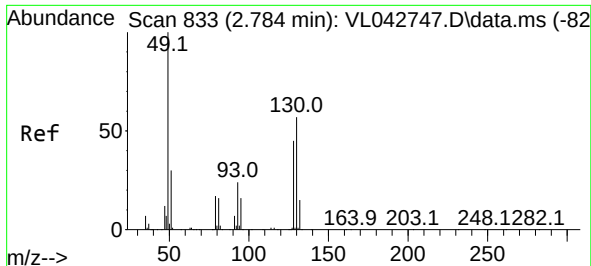
Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv	97
47) 1,1,2-Trichloroethane	6.571	97	85637	5.445	ppbv	97
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	500367	10.418	ppbv #	32
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

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 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

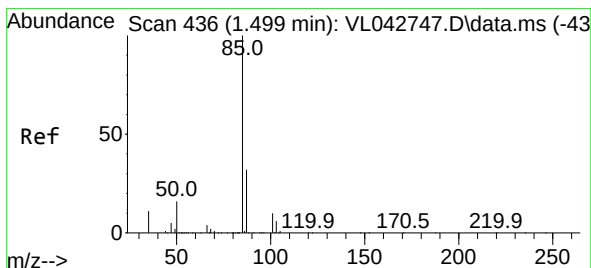
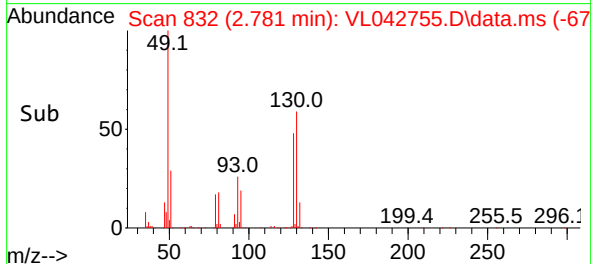
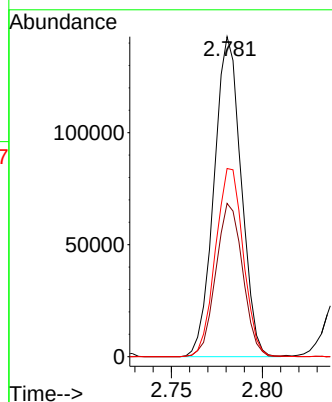
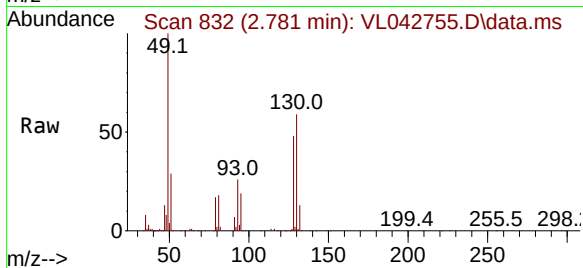




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

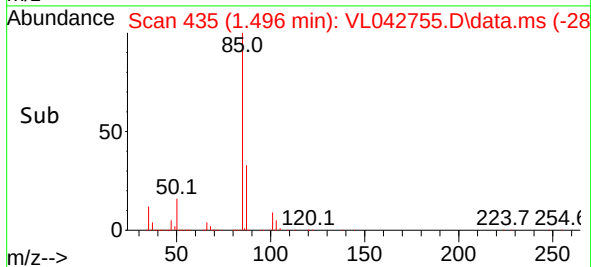
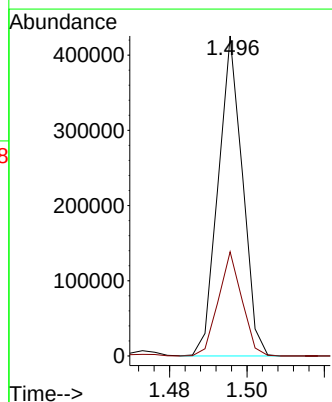
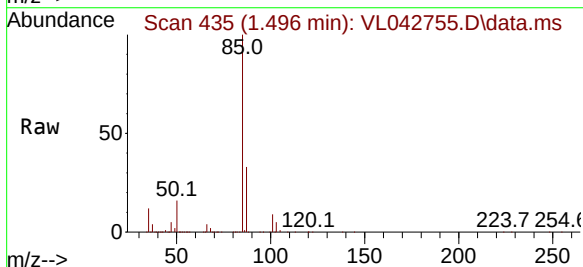
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

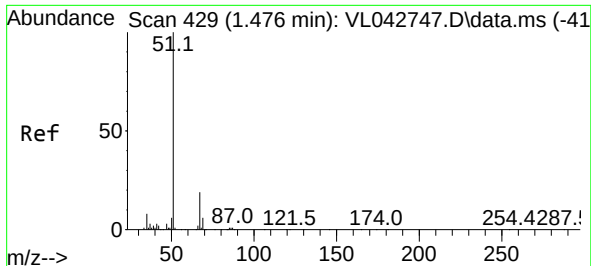
Tgt Ion: 49 Resp: 148064
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 60.2 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 9.472 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 185425
 Ion Ratio Lower Upper
 85 100
 87 32.6 25.4 38.2

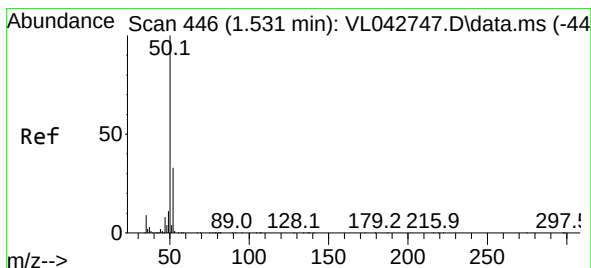
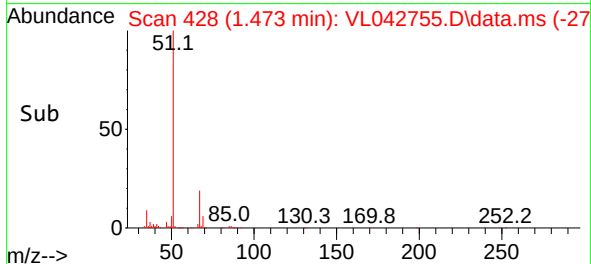
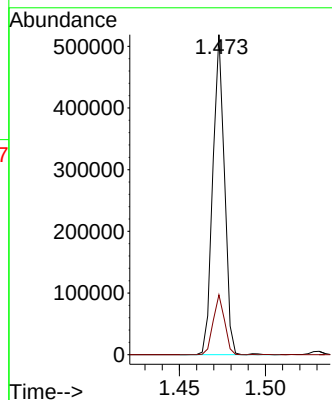
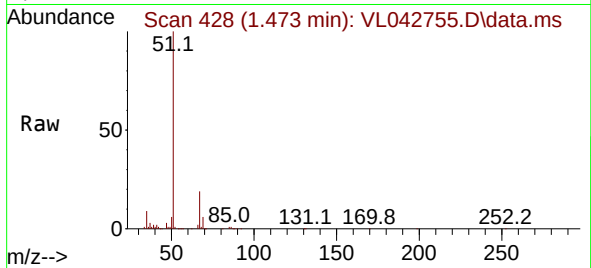




#3
Chlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

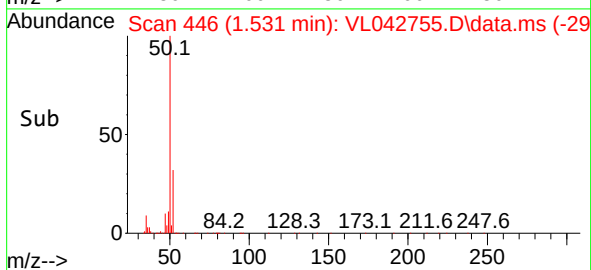
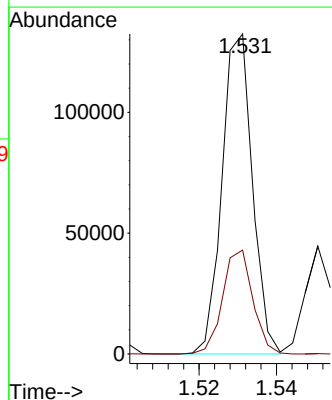
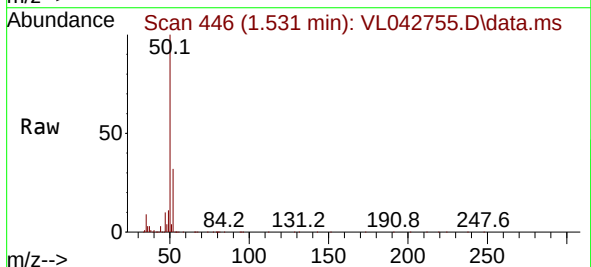
Instrument :
MSVOA_1
ClientSampleId :
ICVVL072325

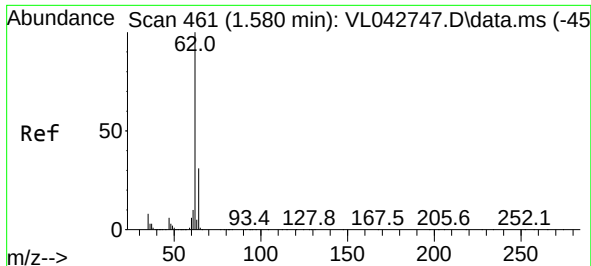
Tgt Ion: 51 Resp: 242908
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6



#4
Chloromethane
Concen: 9.119 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 50 Resp: 72221
Ion Ratio Lower Upper
50 100
52 32.4 26.6 40.0

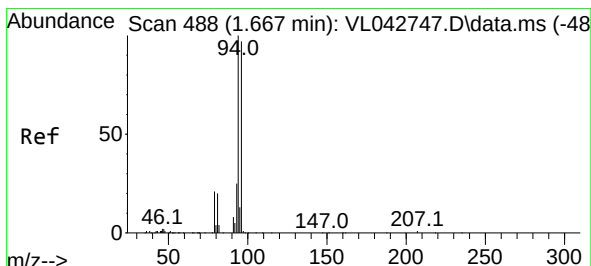
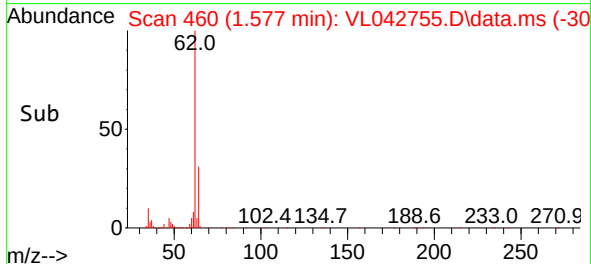
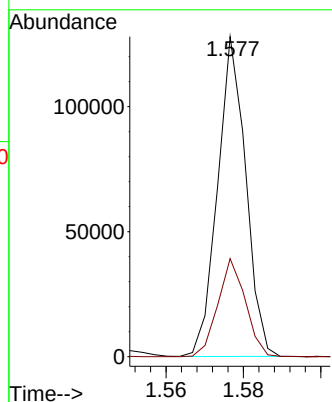
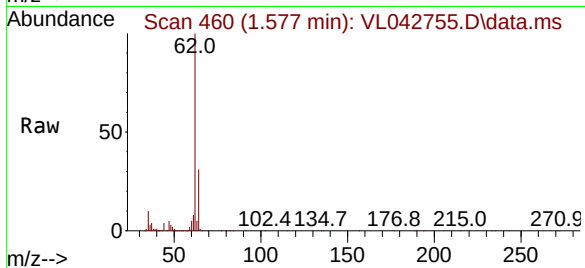




#5
 Vinyl Chloride
 Concen: 8.265 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

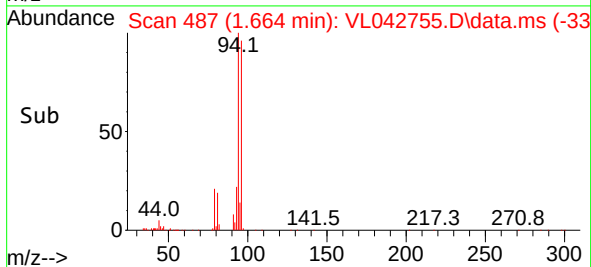
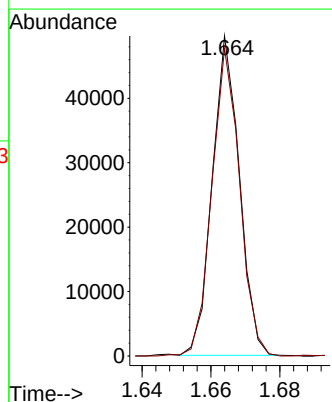
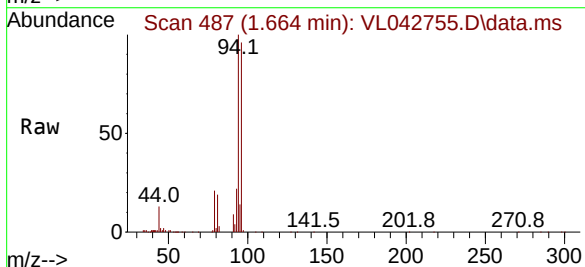
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL072325

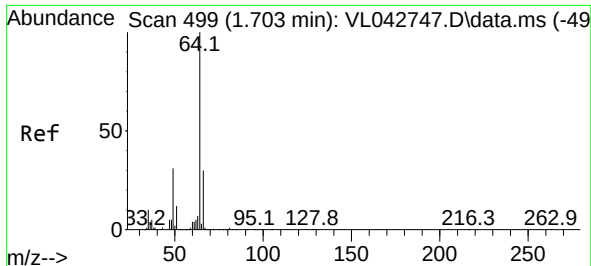
Tgt Ion: 62 Resp: 64673
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.5 36.7



#6
 Bromomethane
 Concen: 8.957 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 94 Resp: 27096
 Ion Ratio Lower Upper
 94 100
 96 96.3 77.6 116.4

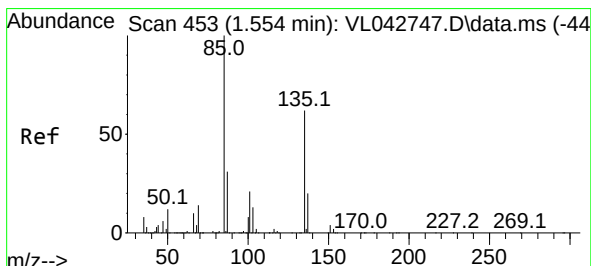
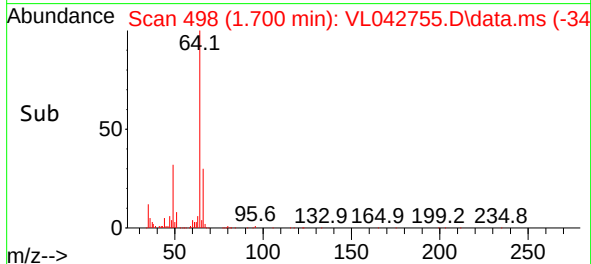
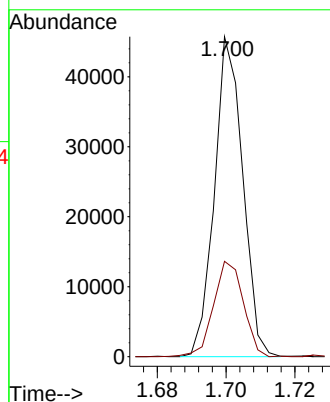
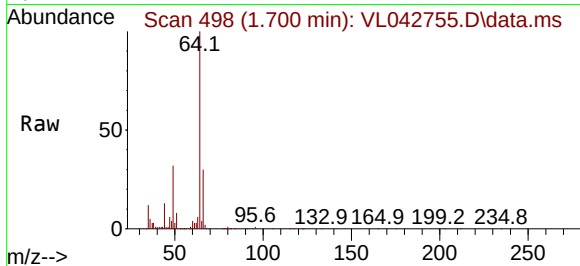




#7
Chloroethane
Concen: 8.641 ppbv
RT: 1.700 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

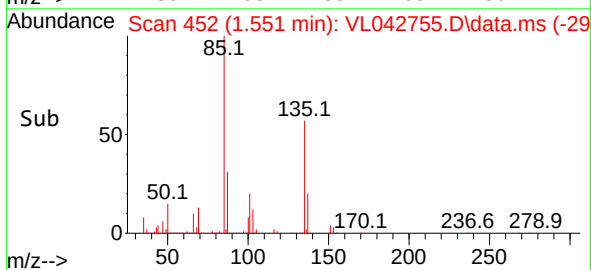
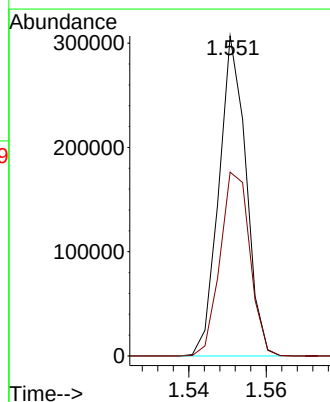
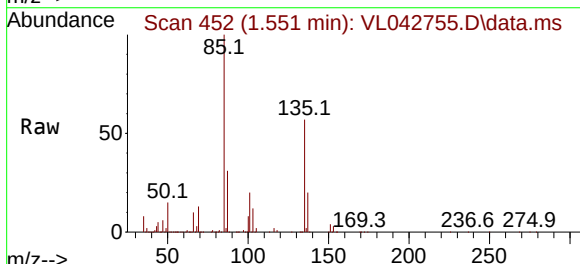
Instrument : MSVOA_1
ClientSampleId : ICVVL072325

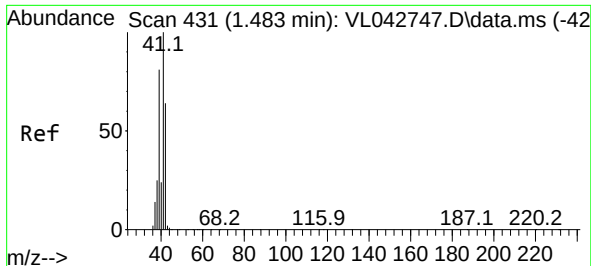
Tgt Ion: 64 Resp: 26125
Ion Ratio Lower Upper
64 100
66 29.8 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.244 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 148833
Ion Ratio Lower Upper
85 100
135 63.6 50.6 76.0





#9

Propene

Concen: 9.316 ppbv

RT: 1.479 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

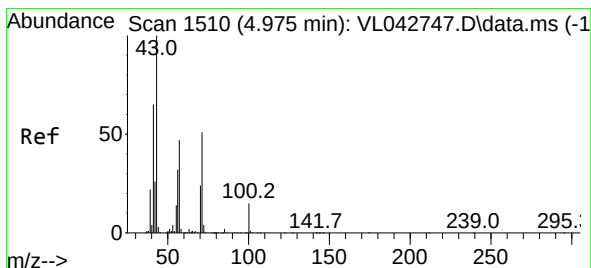
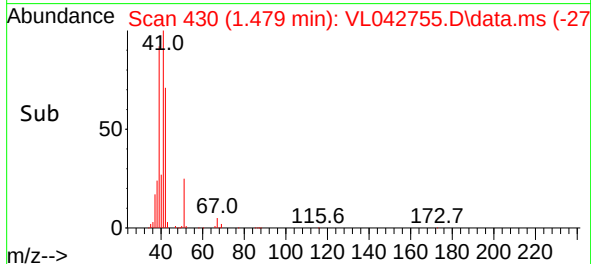
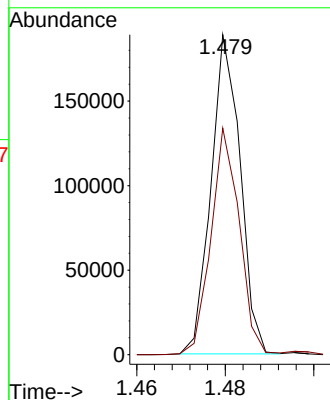
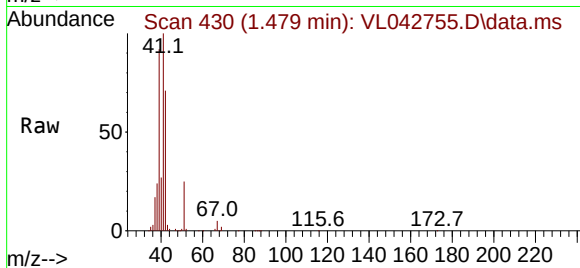
ICVVL072325

Tgt Ion: 41 Resp: 86343

Ion Ratio Lower Upper

41 100

42 70.7 53.2 79.8



#10

Heptane

Concen: 9.921 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.010 min

Lab File: VL042755.D

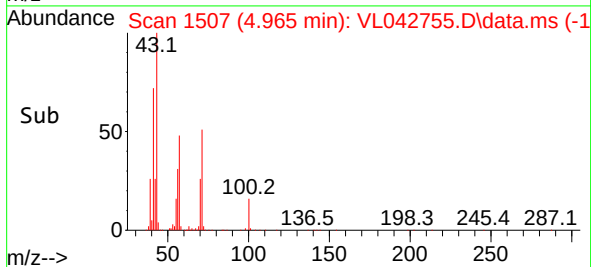
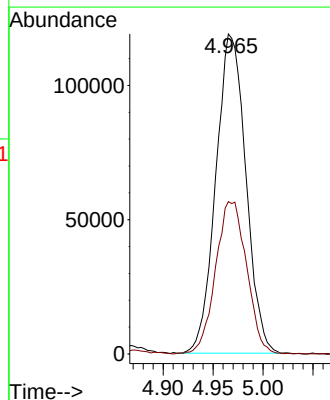
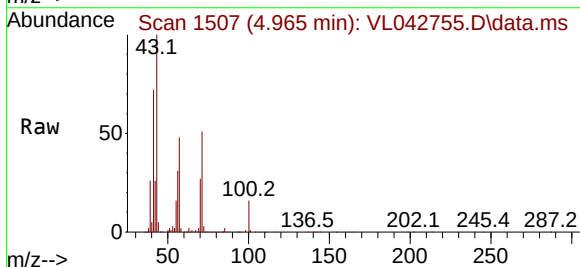
Acq: 23 Jul 2025 14:33

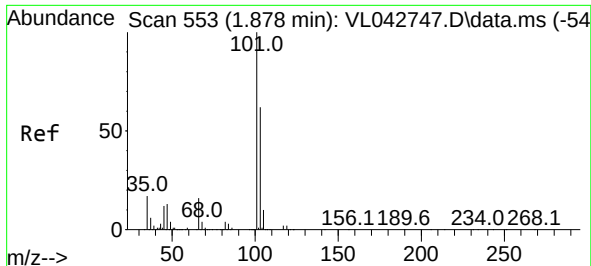
Tgt Ion: 43 Resp: 247934

Ion Ratio Lower Upper

43 100

57 49.5 39.9 59.9

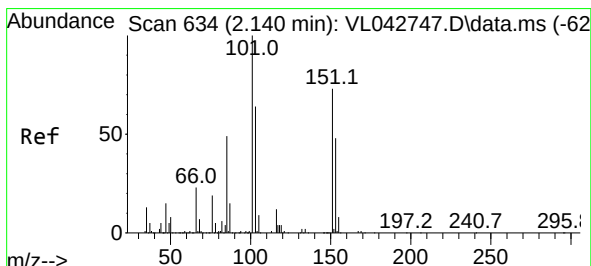
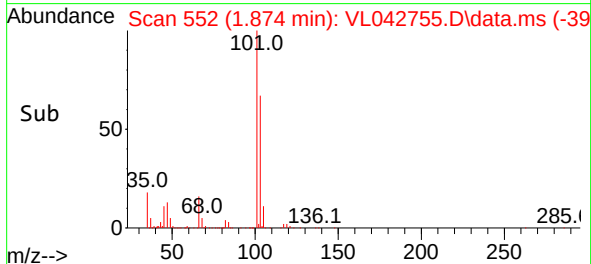
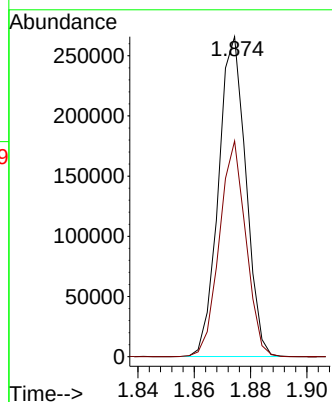
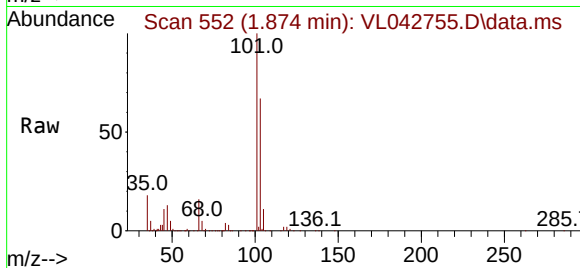




#11
 Trichlorofluoromethane
 Concen: 8.902 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

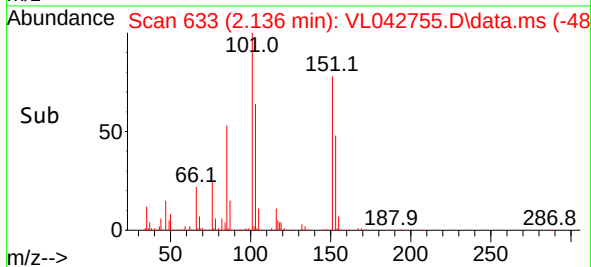
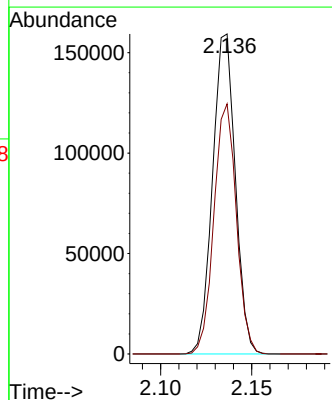
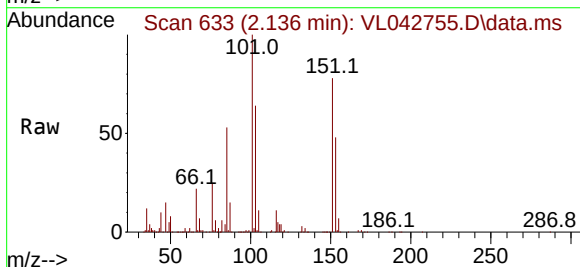
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

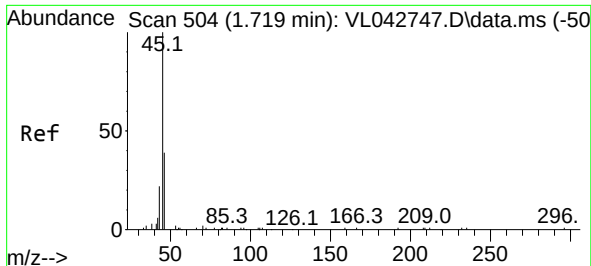
Tgt Ion:101 Resp: 179643
 Ion Ratio Lower Upper
 101 100
 103 67.4 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.023 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion:101 Resp: 138363
 Ion Ratio Lower Upper
 101 100
 151 76.9 60.5 90.7

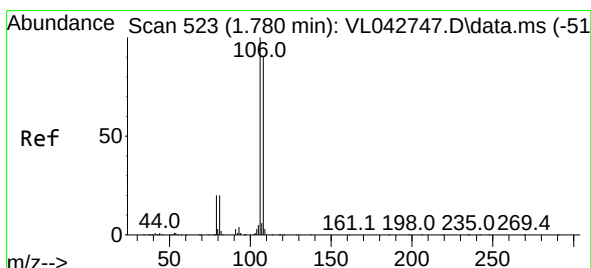
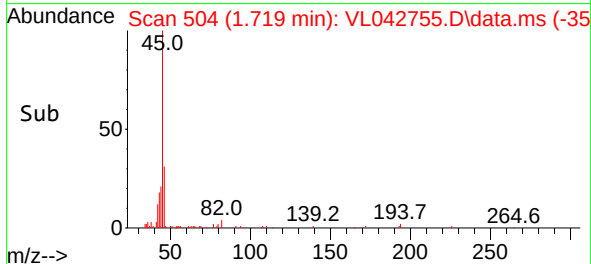
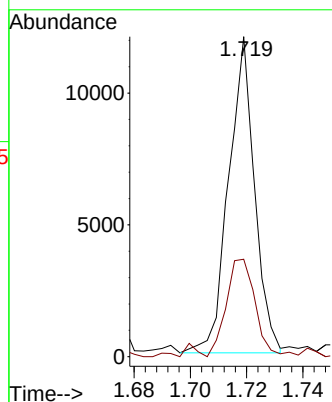
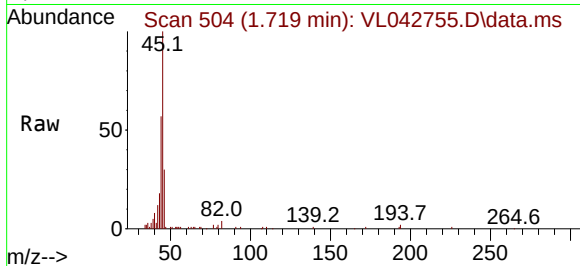




#13
Ethanol
Concen: 10.243 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

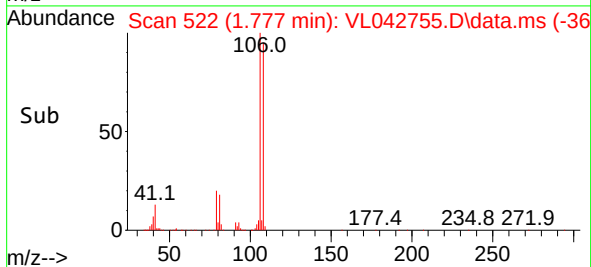
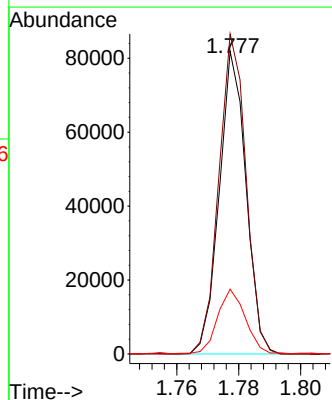
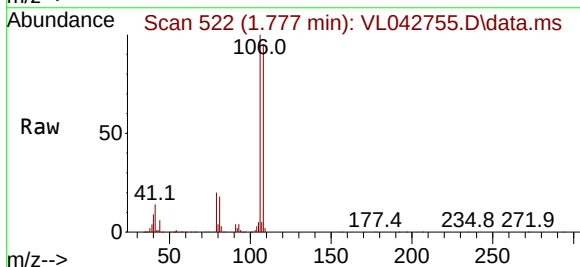
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

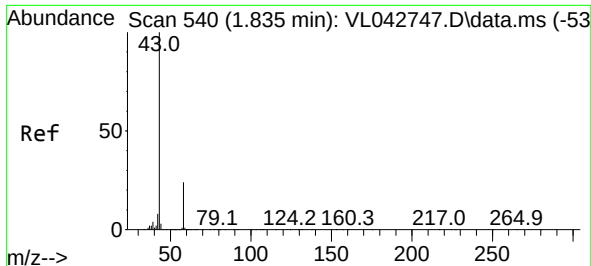
Tgt Ion: 45 Resp: 7690
Ion Ratio Lower Upper
45 100
46 39.7 17.8 71.4



#14
Bromoethene
Concen: 9.020 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 108 Resp: 48972
Ion Ratio Lower Upper
108 100
106 107.5 84.7 127.1
79 23.5 17.4 26.2

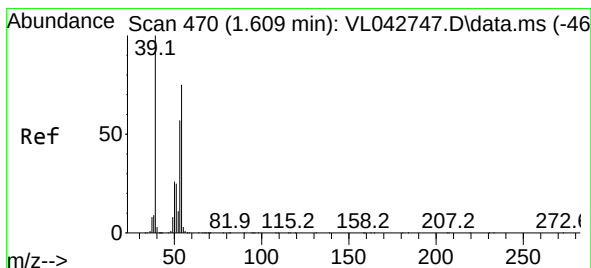
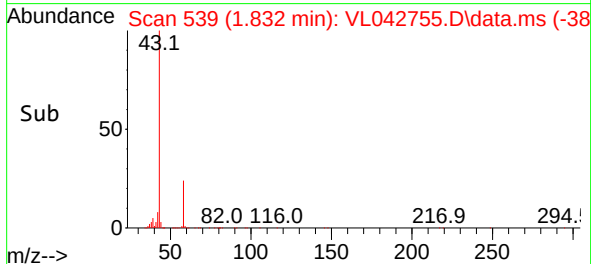
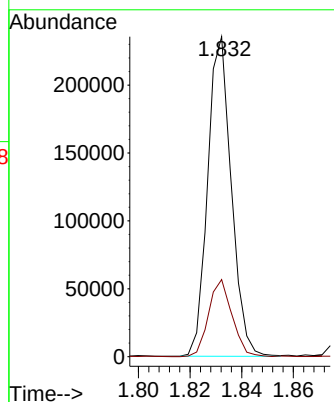
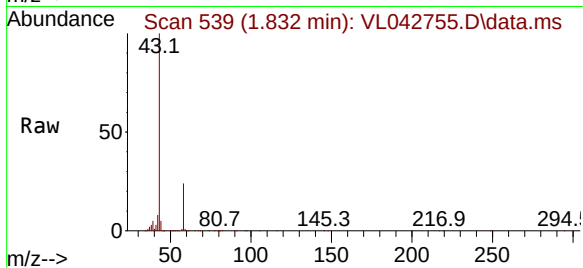




#15
Acetone
Concen: 7.324 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

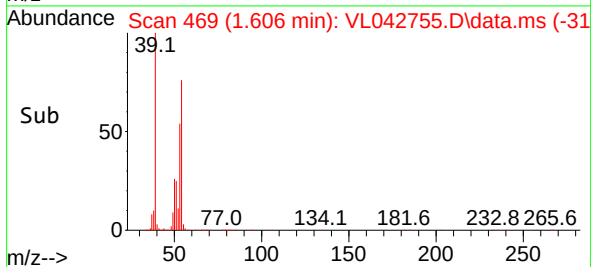
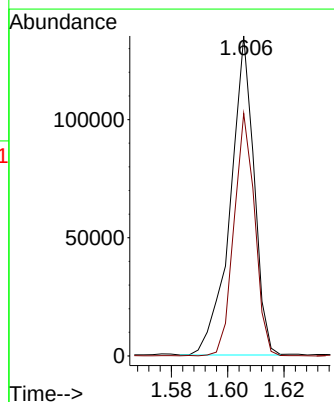
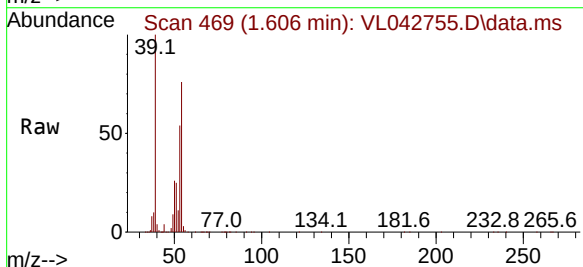
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

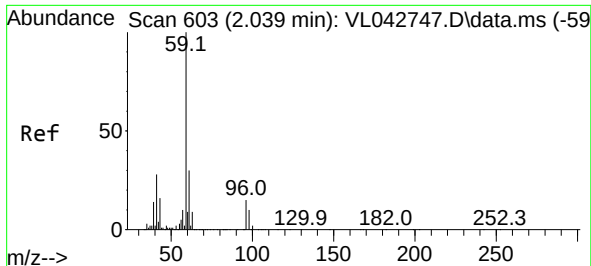
Tgt Ion: 43 Resp: 149742
Ion Ratio Lower Upper
43 100
58 24.2 19.8 29.8



#16
1,3-Butadiene
Concen: 9.072 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 39 Resp: 79112
Ion Ratio Lower Upper
39 100
54 66.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.225 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

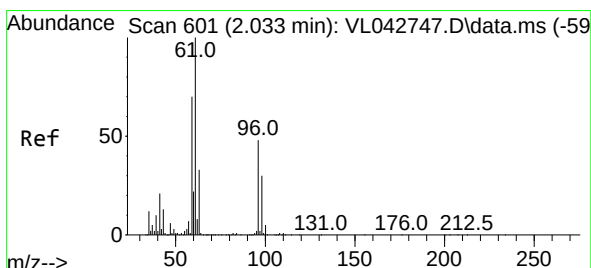
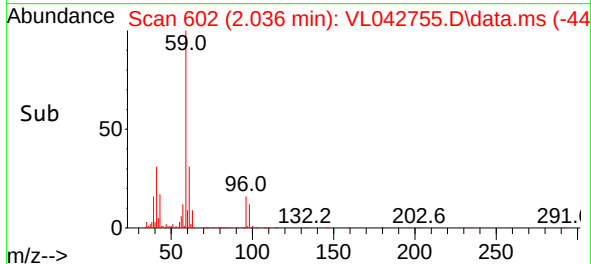
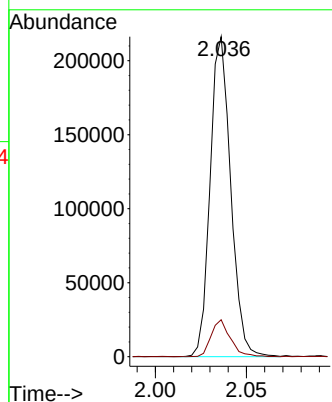
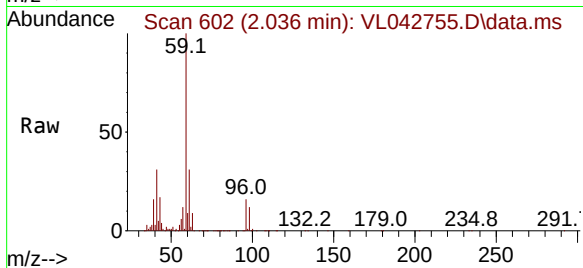
ICVVL072325

Tgt Ion: 59 Resp: 170096

Ion Ratio Lower Upper

59 100

57 11.0 8.3 12.5



#18

1,1-Dichloroethene

Concen: 8.970 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

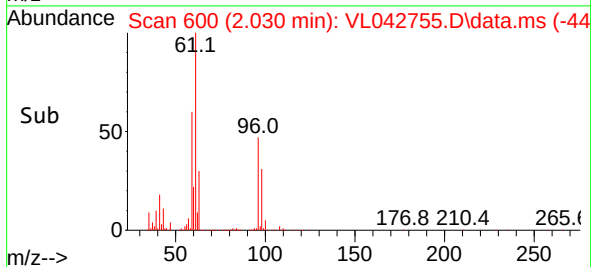
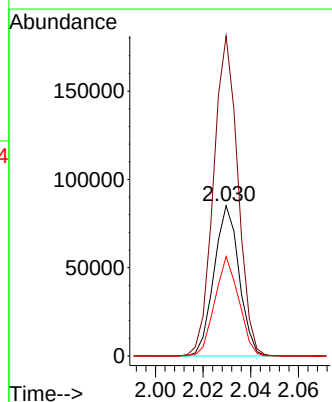
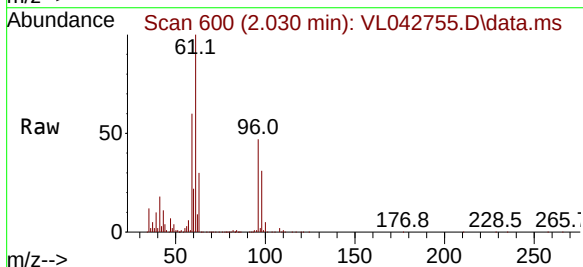
Tgt Ion: 96 Resp: 62149

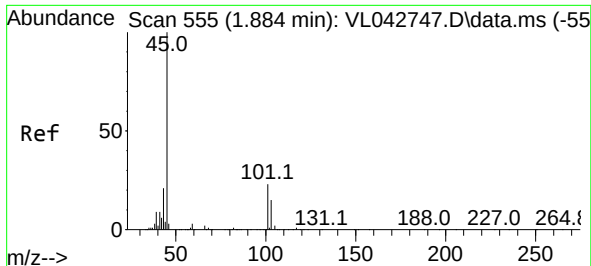
Ion Ratio Lower Upper

96 100

61 212.9 165.8 248.6

98 66.1 49.9 74.9





#19

Isopropyl Alcohol

Concen: 9.006 ppbv

RT: 1.881 min Scan# 51

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

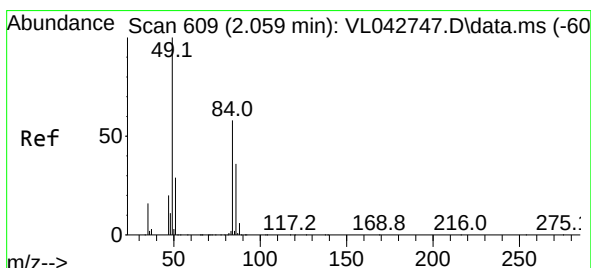
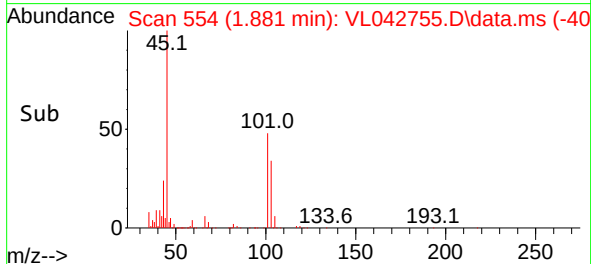
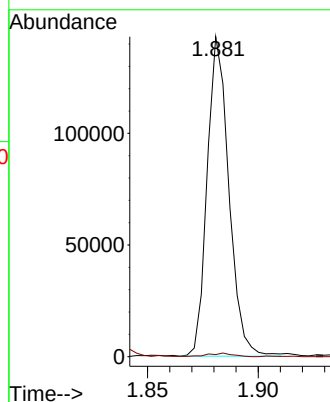
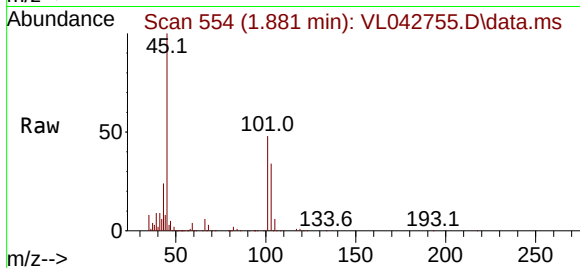
ICVVL072325

Tgt Ion: 45 Resp: 97844

Ion Ratio Lower Upper

45 100

58 37.1 30.0 45.0



#20

Methylene Chloride

Concen: 8.320 ppbv

RT: 2.056 min Scan# 608

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 53608

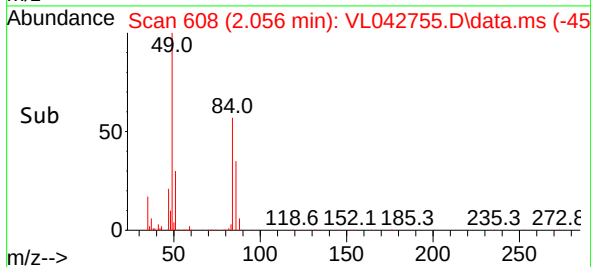
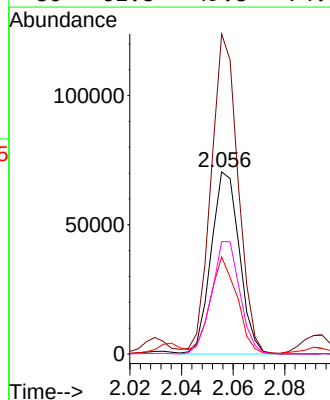
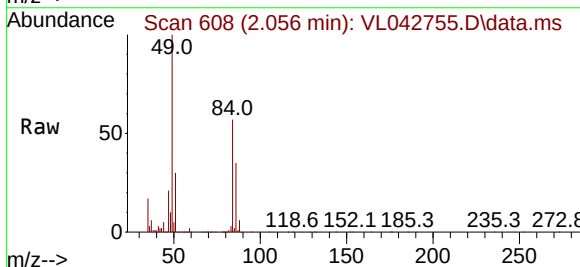
Ion Ratio Lower Upper

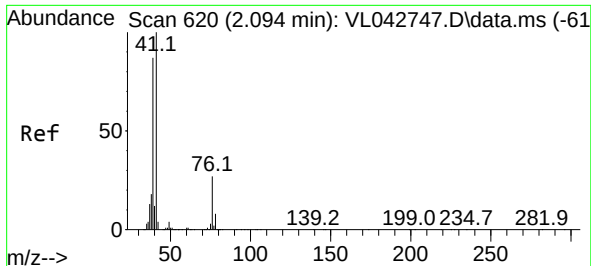
84 100

49 175.3 138.6 208.0

51 53.0 40.6 61.0

86 61.8 49.8 74.8

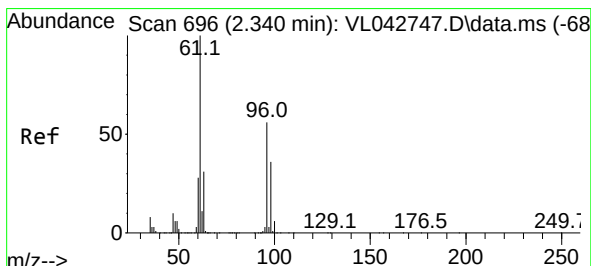
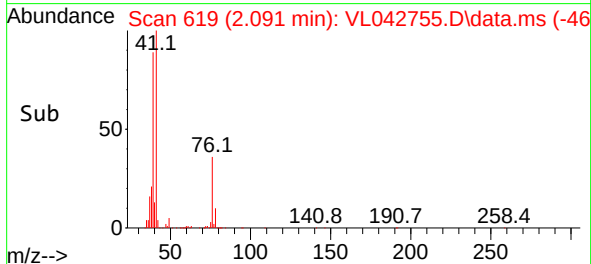
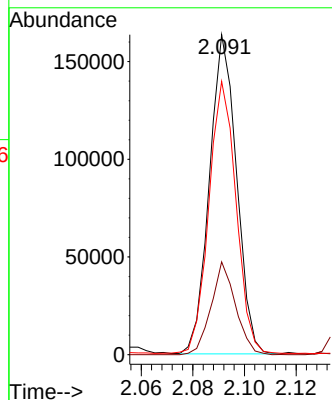
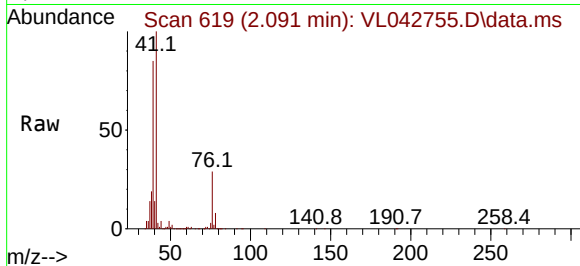




#21
 Allyl Chloride
 Concen: 9.441 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

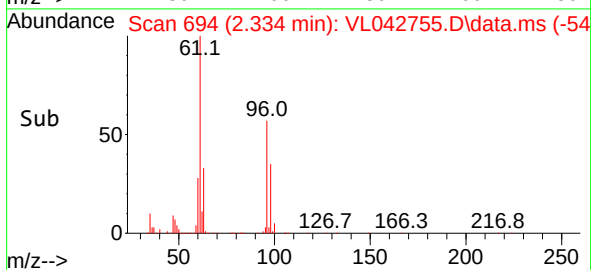
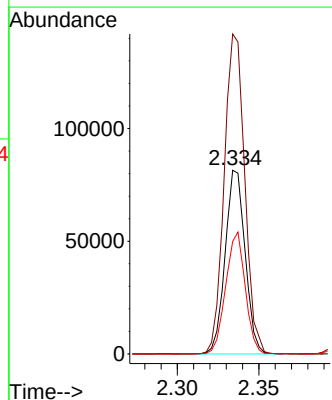
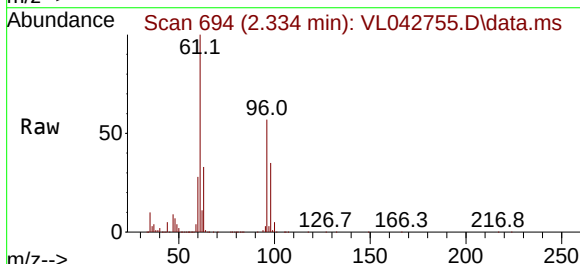
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

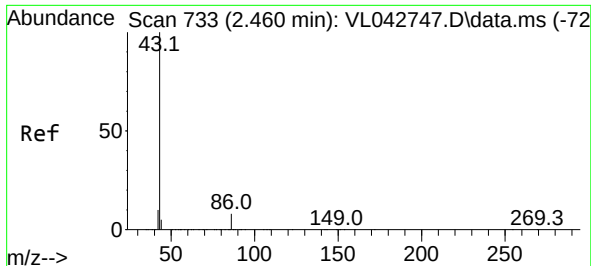
Tgt Ion: 41 Resp: 118958
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 85.9 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.322 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 69482
 Ion Ratio Lower Upper
 96 100
 61 174.3 142.3 213.5
 98 61.3 50.6 76.0



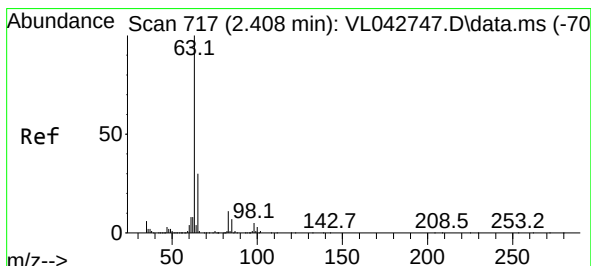
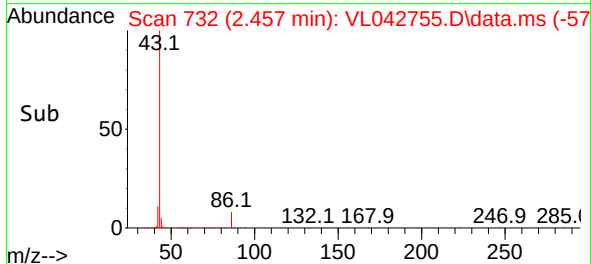
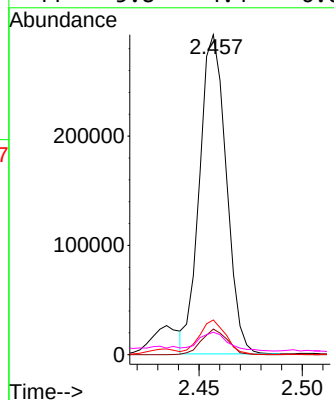
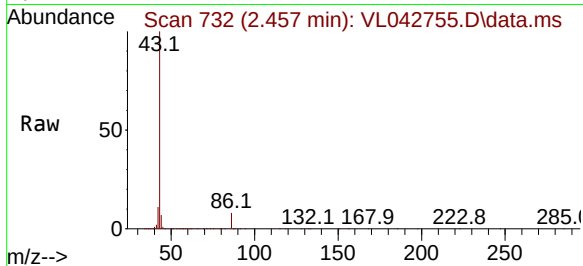


#23
 Vinyl Acetate
 Concen: 10.568 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL072325

Tgt Ion: 43 Resp: 261938

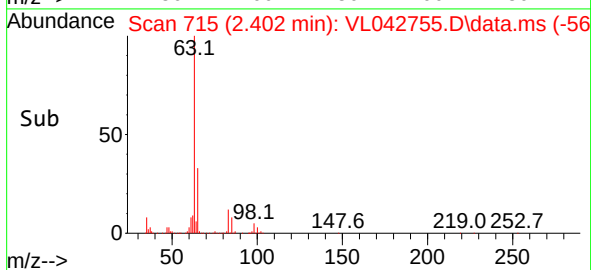
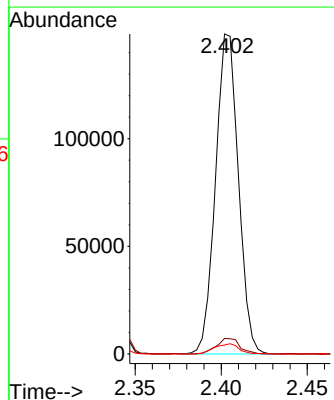
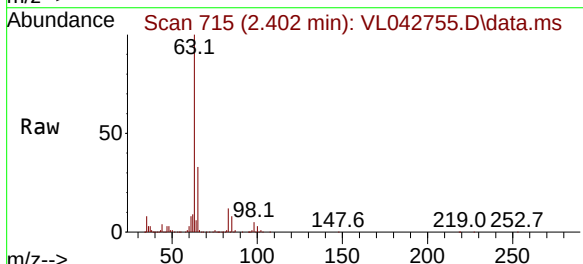
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	10.7	7.8	11.8
44	5.8	4.4	6.6

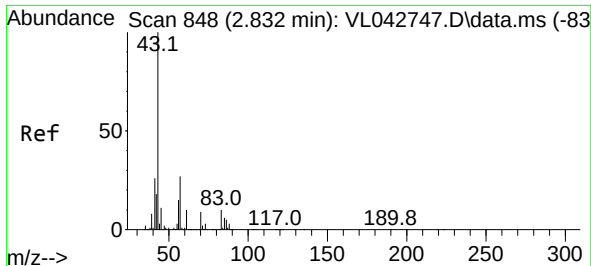


#24
 1,1-Dichloroethane
 Concen: 8.993 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 63 Resp: 137586

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	2.8	1.6	4.8



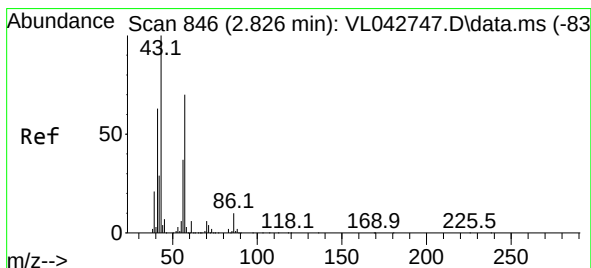
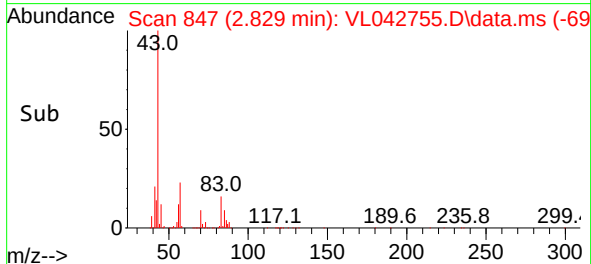
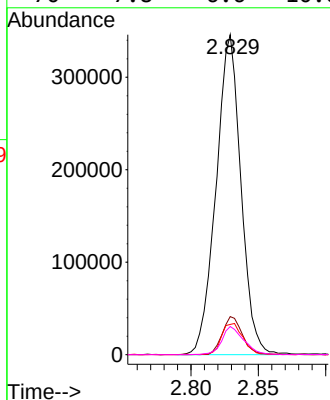
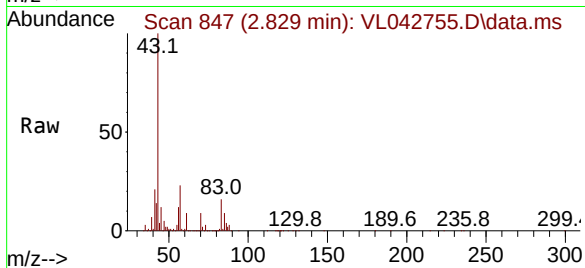


#25
Ethyl Acetate
Concen: 9.816 ppbv
RT: 2.829 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 43 Resp: 444208

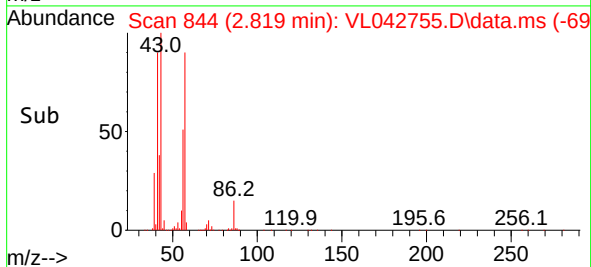
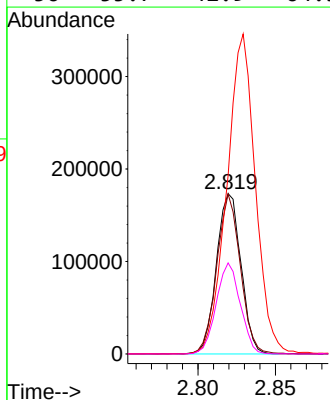
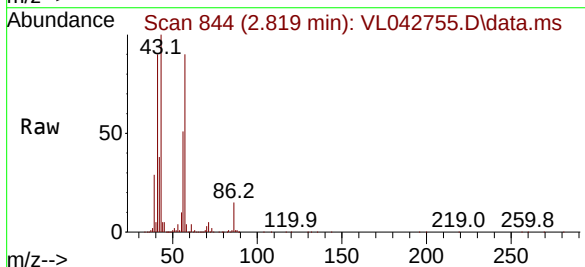
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.7	6.7	10.1
70	7.8	6.6	10.0

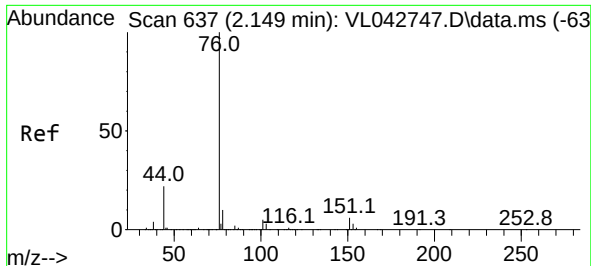


#26
Hexane
Concen: 9.597 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 190523

Ion	Ratio	Lower	Upper
57	100		
41	96.3	75.4	113.2
43	234.2	185.0	277.6
56	55.7	42.9	64.3





#27

Carbon Disulfide

Concen: 9.652 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

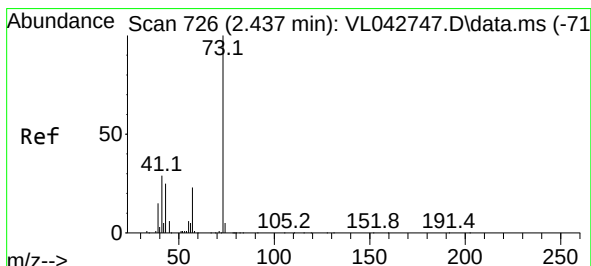
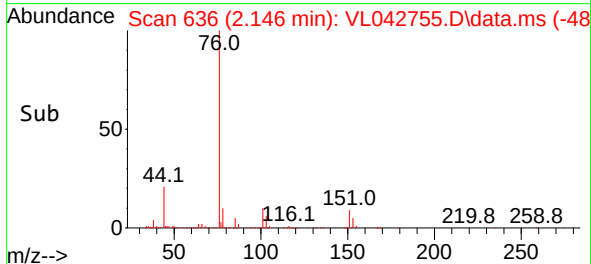
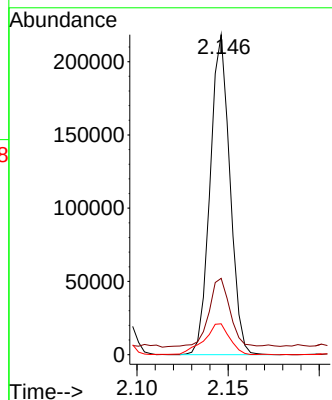
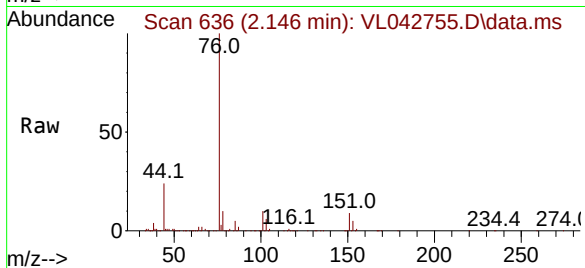
Tgt Ion: 76 Resp: 164040

Ion Ratio Lower Upper

76 100

44 23.7 19.3 28.9

78 12.7 9.9 14.9



#28

Methyl tert-Butyl Ether

Concen: 9.114 ppbv

RT: 2.434 min Scan# 725

Delta R.T. -0.003 min

Lab File: VL042755.D

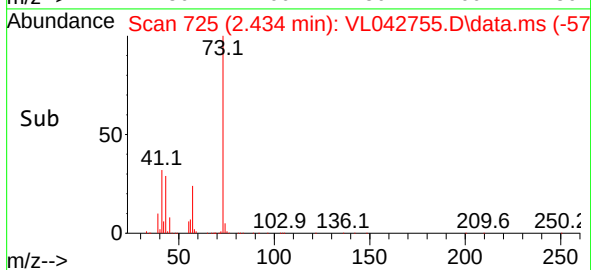
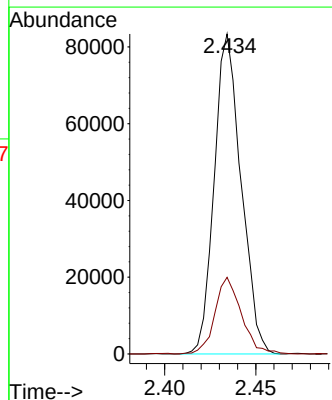
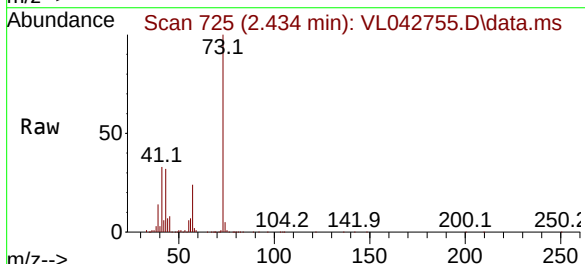
Acq: 23 Jul 2025 14:33

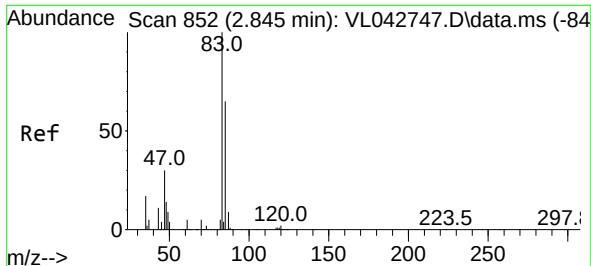
Tgt Ion: 73 Resp: 85480

Ion Ratio Lower Upper

73 100

57 23.8 19.8 29.8





#29

Chloroform

Concen: 9.643 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

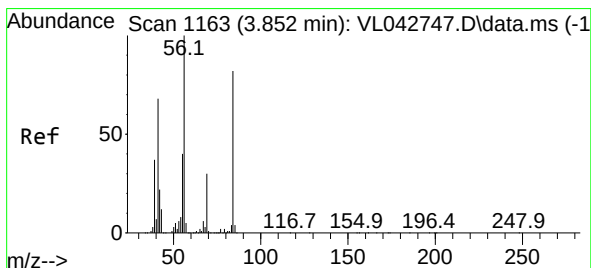
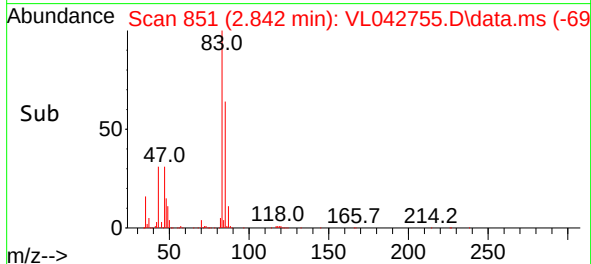
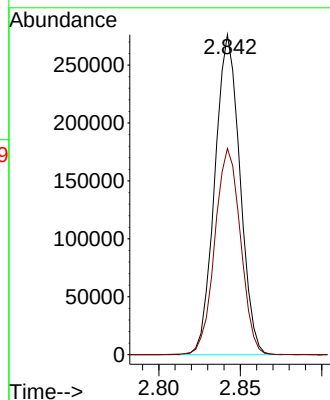
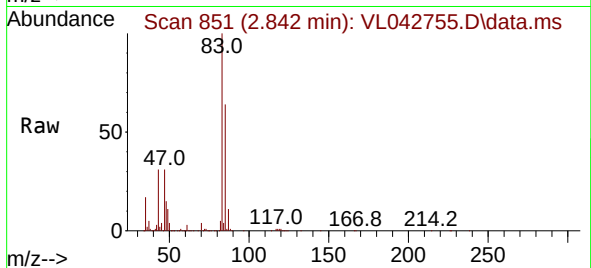
ICVVL072325

Tgt Ion: 83 Resp: 295808

Ion Ratio Lower Upper

83 100

85 64.4 52.2 78.2



#30

Cyclohexane

Concen: 9.773 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

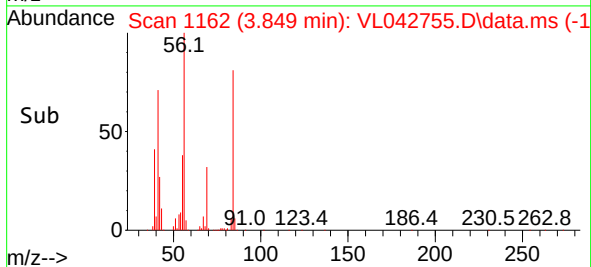
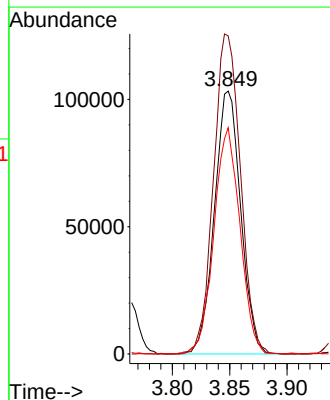
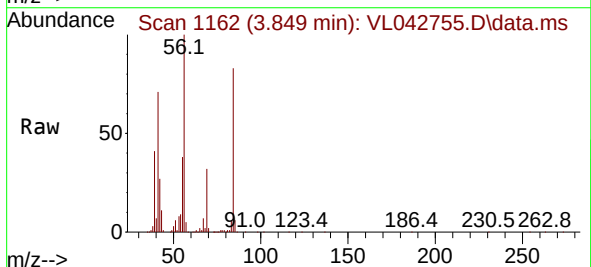
Tgt Ion: 84 Resp: 164554

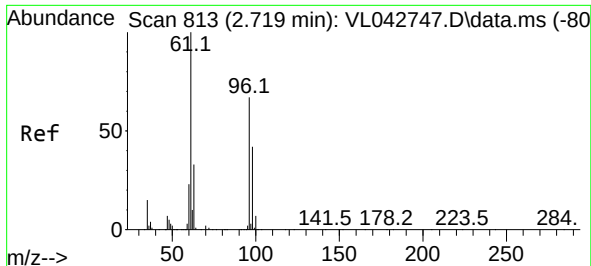
Ion Ratio Lower Upper

84 100

56 124.9 97.5 146.3

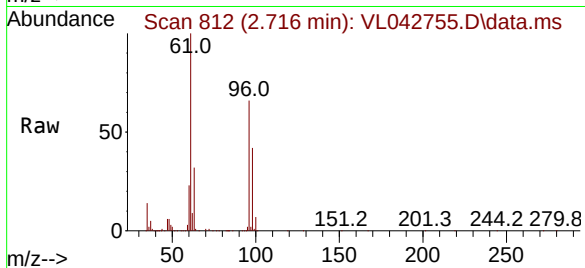
41 85.5 67.2 100.8



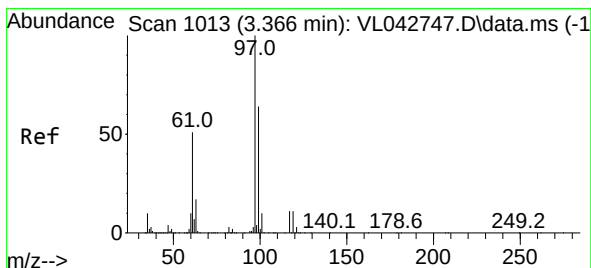
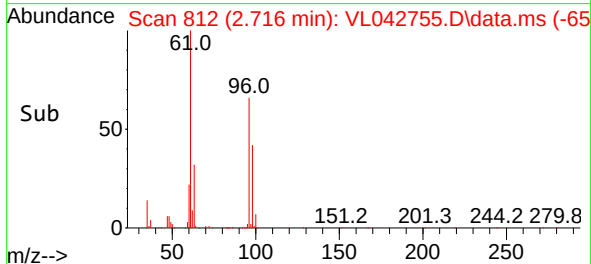
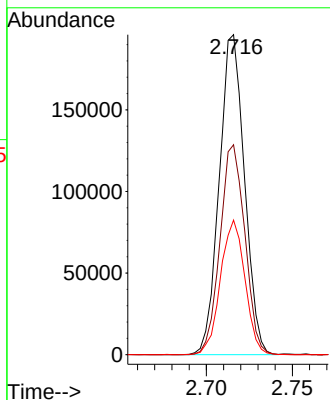


#31
cis-1,2-Dichloroethene
Concen: 9.802 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

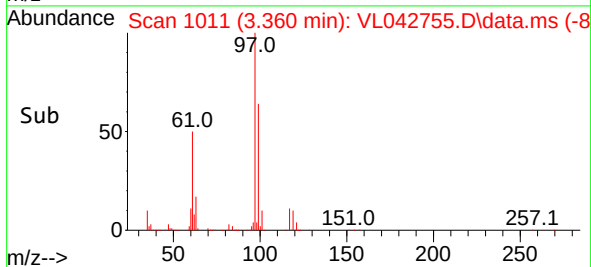
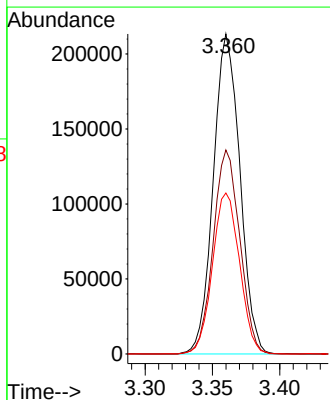
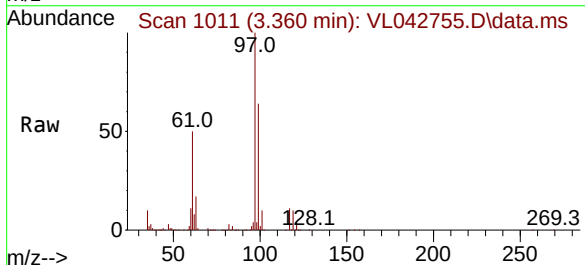


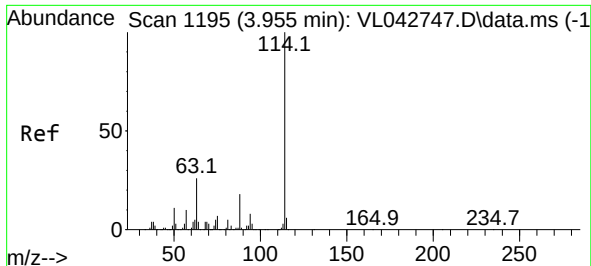
Tgt Ion: 61 Resp: 199970
Ion Ratio Lower Upper
61 100
96 65.6 53.5 80.3
98 42.1 33.6 50.4



#32
1,1,1-Trichloroethane
Concen: 9.172 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 97 Resp: 293074
Ion Ratio Lower Upper
97 100
99 63.7 51.0 76.6
61 51.4 40.9 61.3

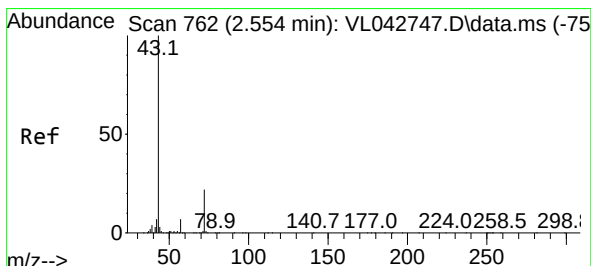
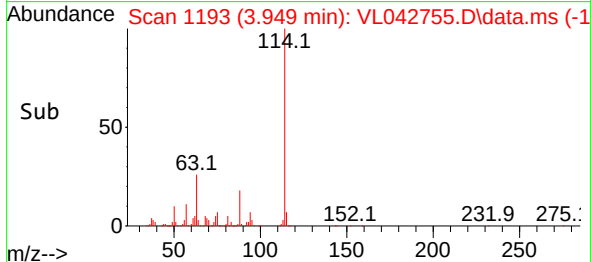
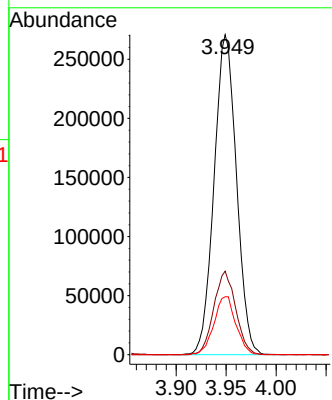
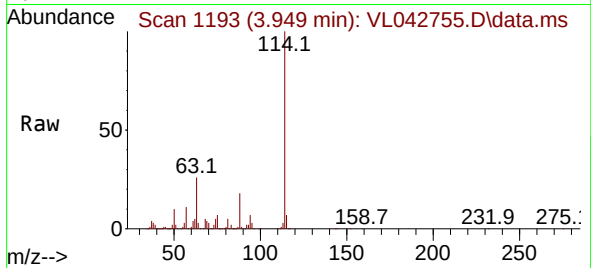




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

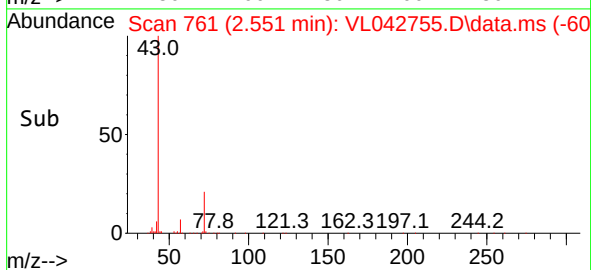
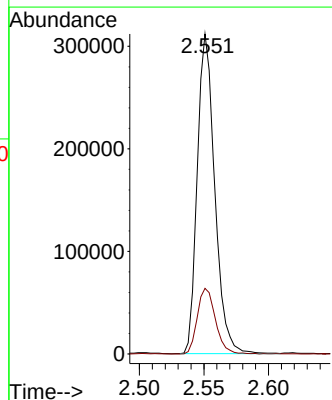
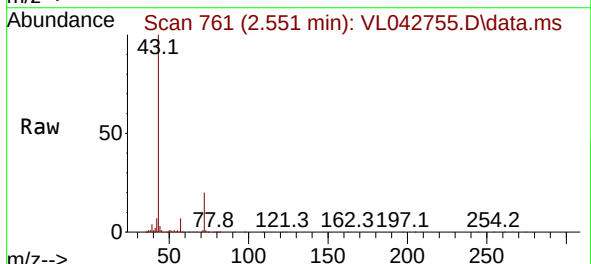
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

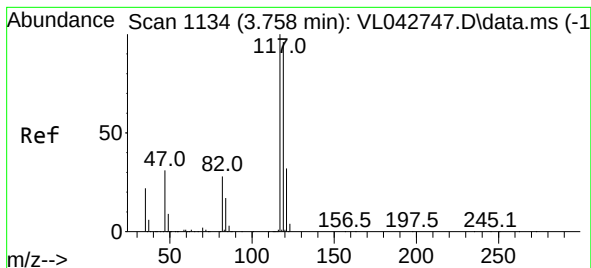
Tgt Ion:114 Resp: 421747
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.8 14.0 21.0



#34
2-Butanone
Concen: 9.869 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 294837
Ion Ratio Lower Upper
43 100
72 21.4 17.4 26.0





#35

Carbon Tetrachloride

Concen: 9.900 ppbv

RT: 3.755 min Scan# 1134

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

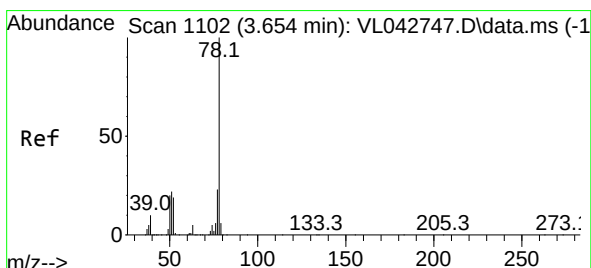
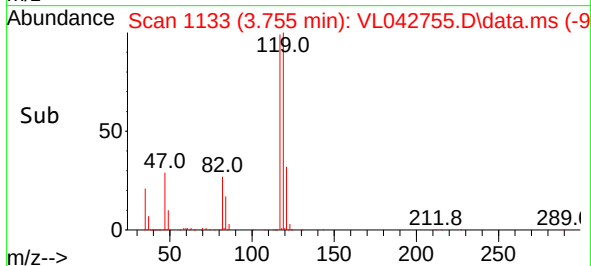
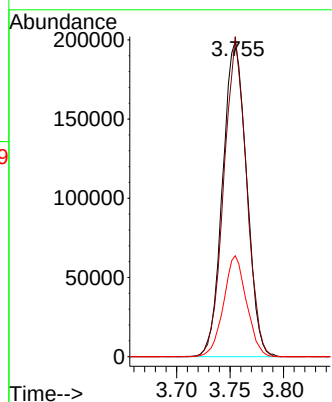
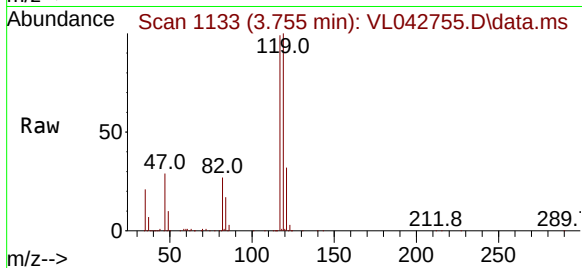
Tgt Ion:117 Resp: 310129

Ion Ratio Lower Upper

117 100

119 101.4 77.1 115.7

121 32.0 25.5 38.3



#36

Benzene

Concen: 9.834 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

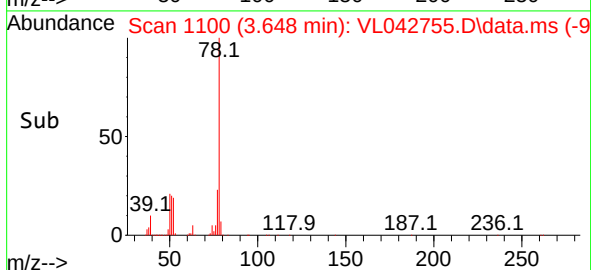
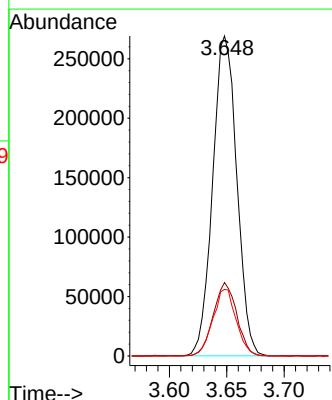
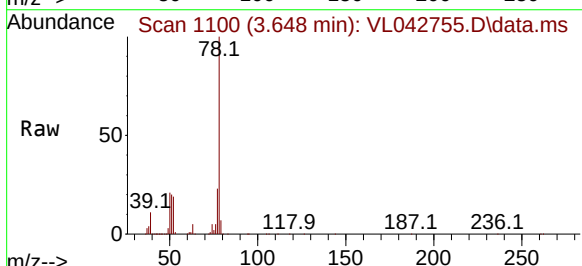
Tgt Ion: 78 Resp: 393085

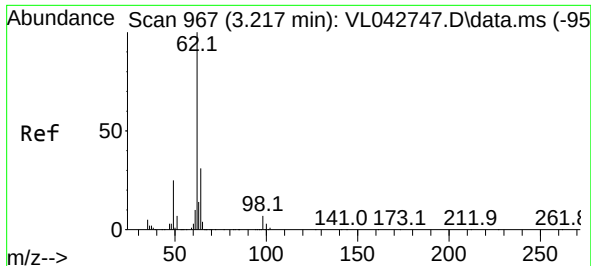
Ion Ratio Lower Upper

78 100

77 22.9 18.5 27.7

50 20.8 16.2 24.2

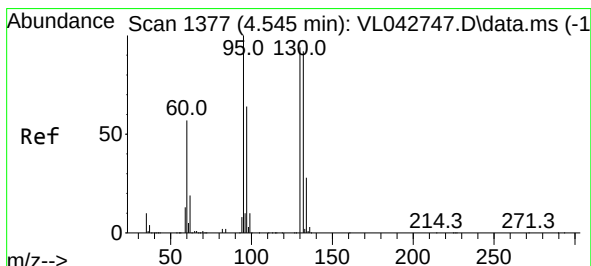
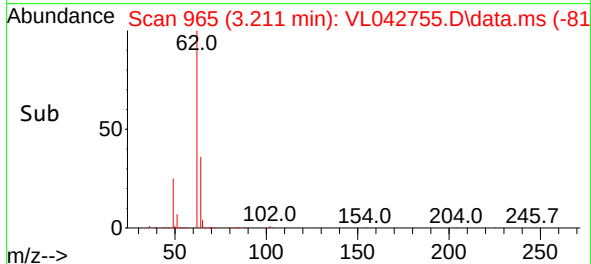
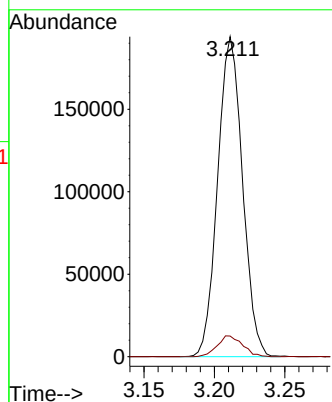
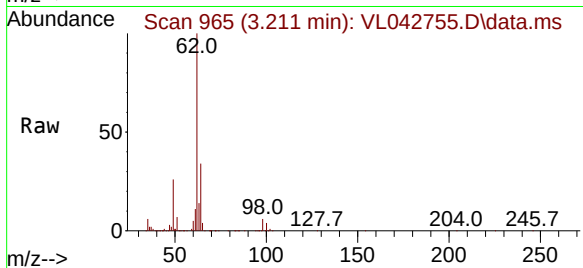




#37
1,2-Dichloroethane
Concen: 9.895 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

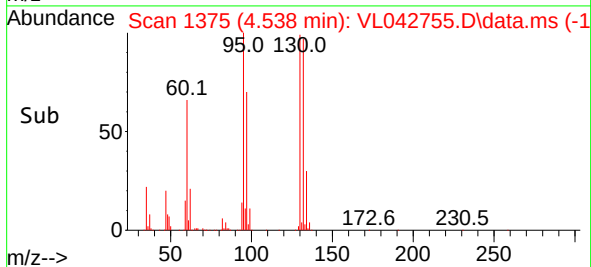
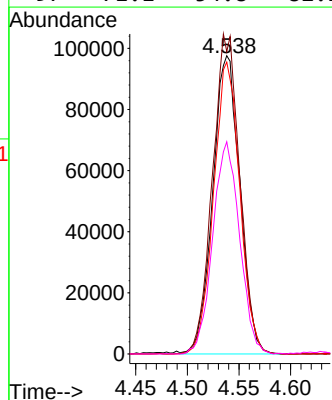
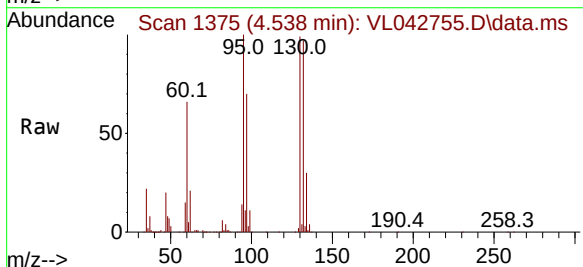
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

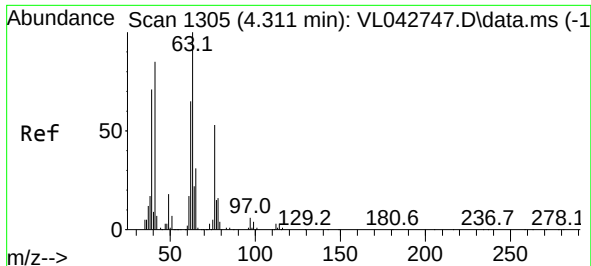
Tgt Ion: 62 Resp: 238249
Ion Ratio Lower Upper
62 100
98 6.6 5.2 7.8



#38
Trichloroethene
Concen: 9.301 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:130 Resp: 178600
Ion Ratio Lower Upper
130 100
95 101.3 85.4 128.2
132 97.7 78.2 117.2
97 71.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 9.578 ppbv

RT: 4.305 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

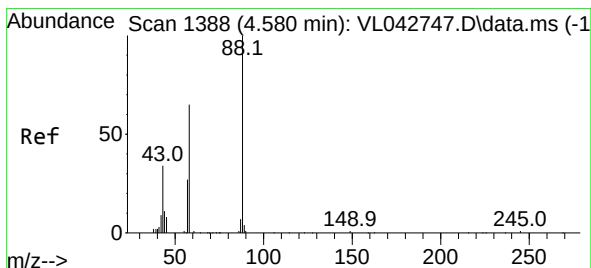
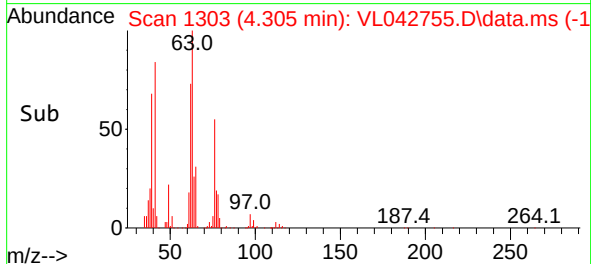
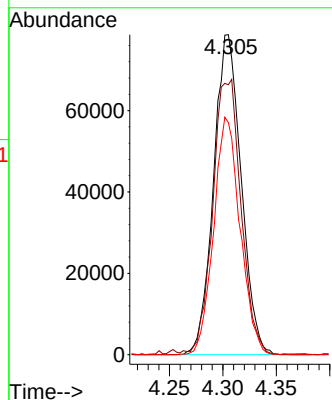
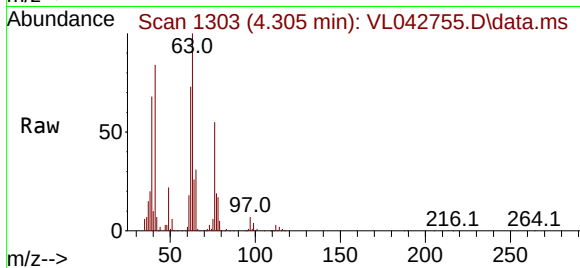
Tgt Ion: 63 Resp: 141316

Ion Ratio Lower Upper

63 100

41 84.3 68.2 102.4

62 72.5 52.0 78.0



#40

1,4-Dioxane

Concen: 9.481 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. -0.010 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion: 88 Resp: 65204

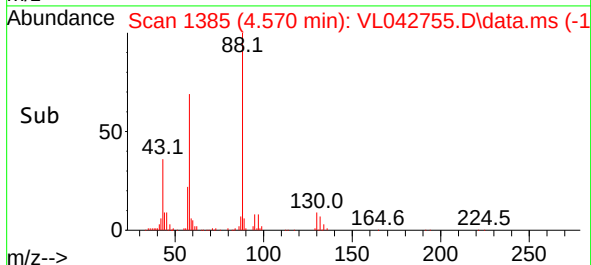
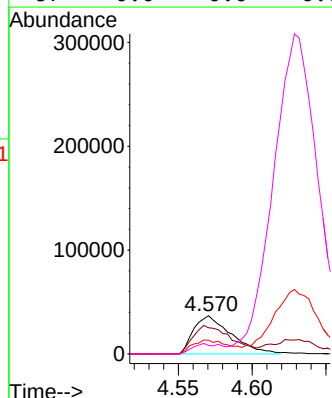
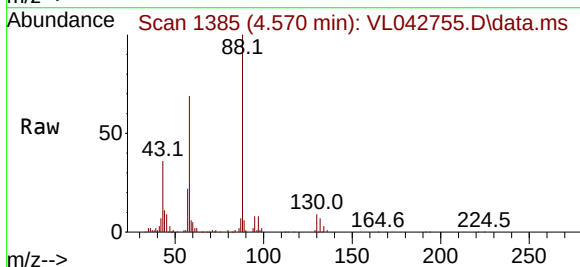
Ion Ratio Lower Upper

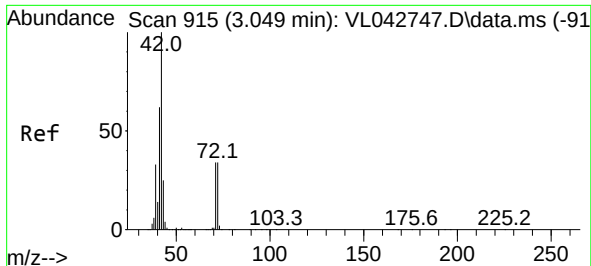
88 100

58 78.4 58.8 88.2

43 32.6 28.9 43.3

57 0.0 0.0 0.0

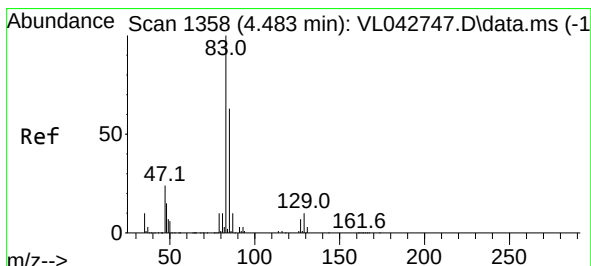
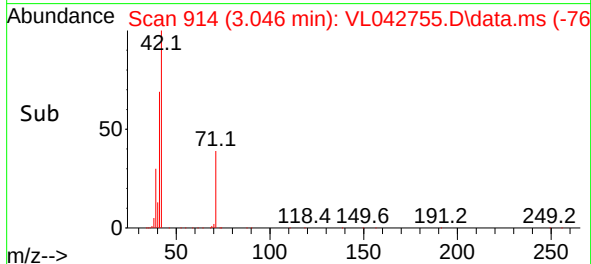
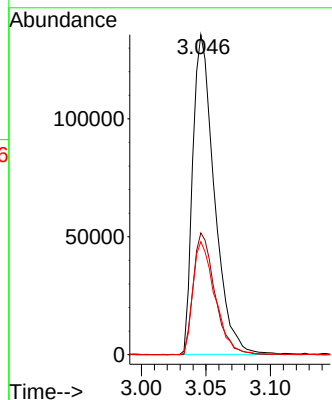
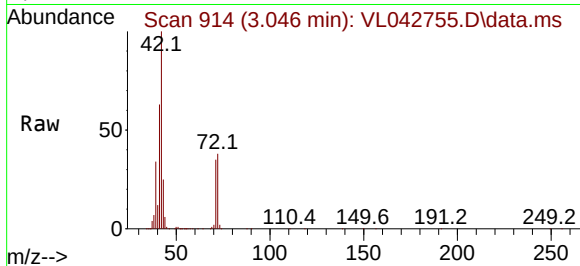




#41
Tetrahydrofuran
Concen: 10.404 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

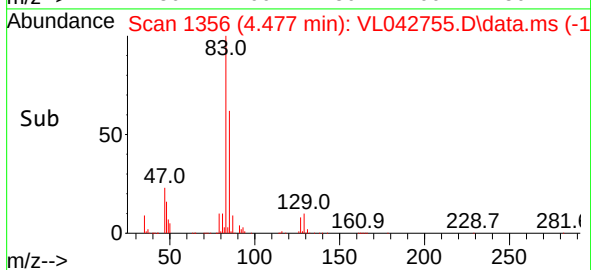
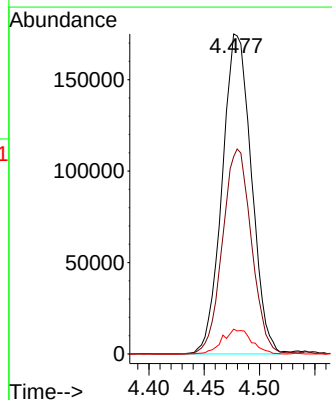
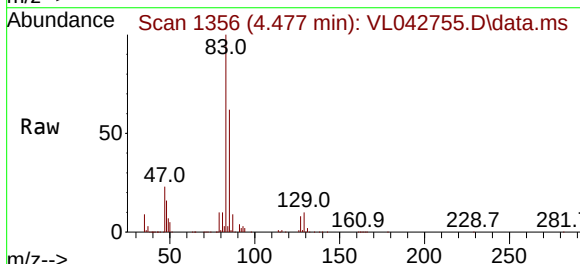
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

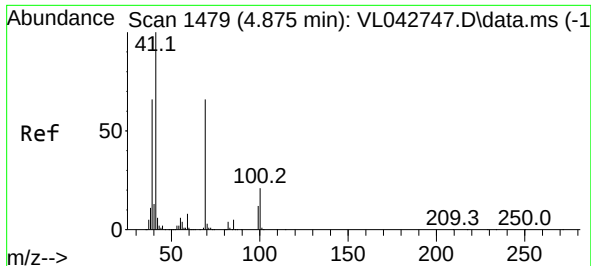
Tgt Ion: 42 Resp: 158159
Ion Ratio Lower Upper
42 100
72 38.2 30.9 46.3
71 36.2 28.6 43.0



#42
Bromodichloromethane
Concen: 10.254 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 83 Resp: 321549
Ion Ratio Lower Upper
83 100
85 61.6 50.2 75.4
127 7.7 5.4 8.2

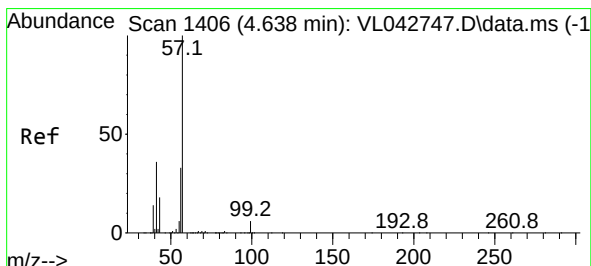
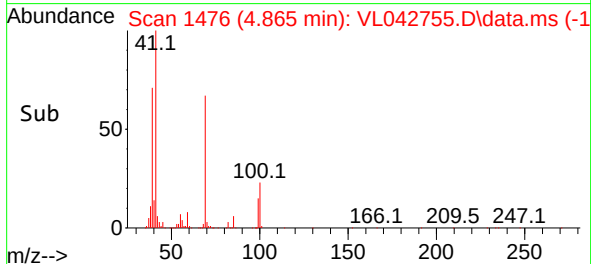
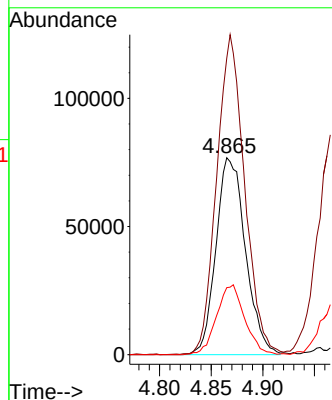
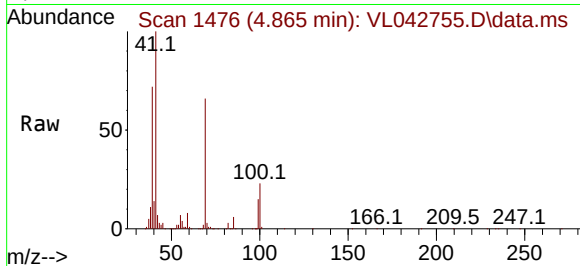




#43
Methyl Methacrylate
Concen: 10.738 ppbv
RT: 4.865 min Scan# 1479
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

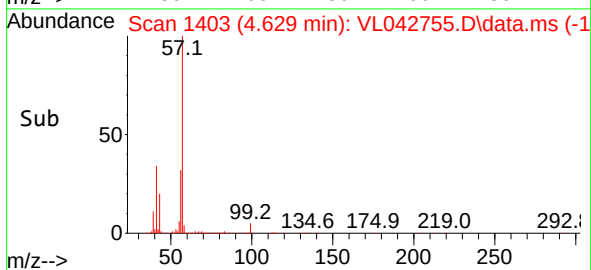
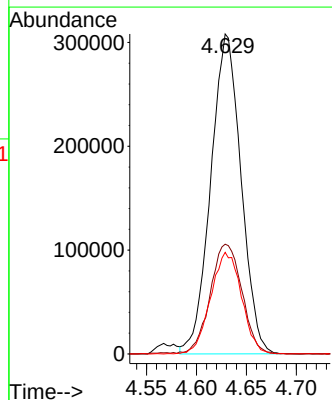
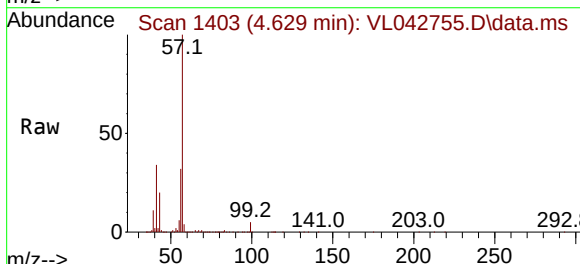
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

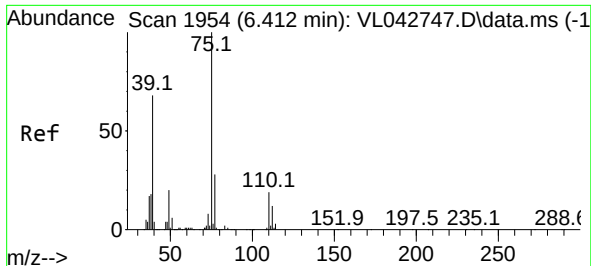
Tgt Ion: 69 Resp: 152551
Ion Ratio Lower Upper
69 100
41 153.9 125.7 188.5
100 33.9 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 9.973 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 649720
Ion Ratio Lower Upper
57 100
41 36.3 28.3 42.5
56 32.4 25.8 38.6

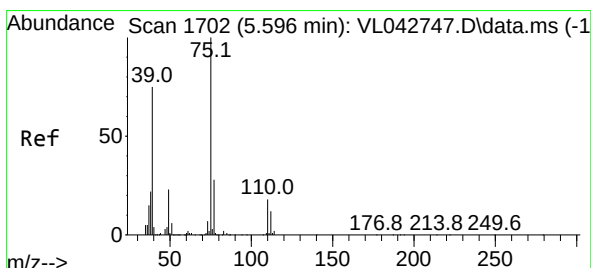
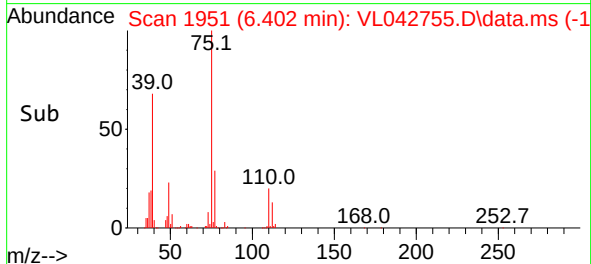
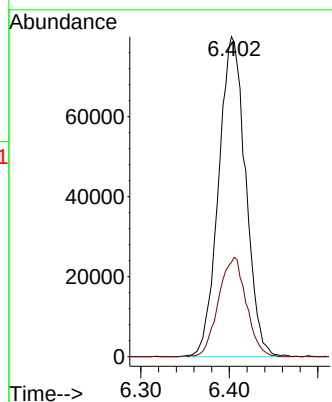
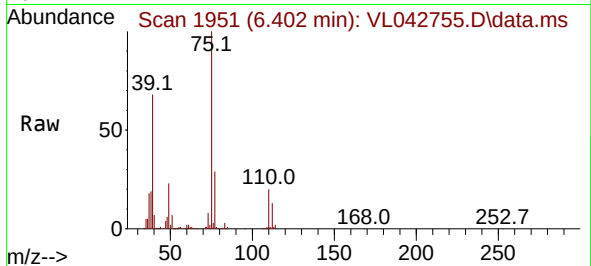




#45
 t-1,3-Dichloropropene
 Concen: 10.643 ppbv
 RT: 6.402 min Scan# 1695
 Delta R.T. -0.010 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

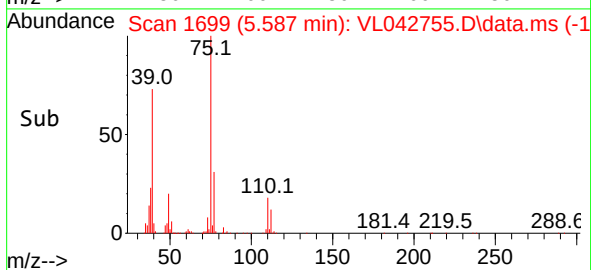
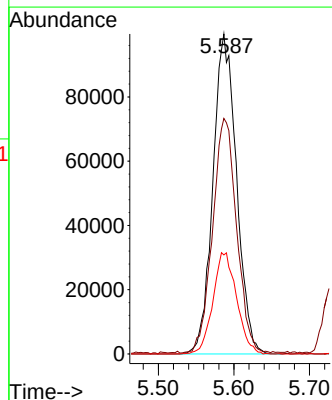
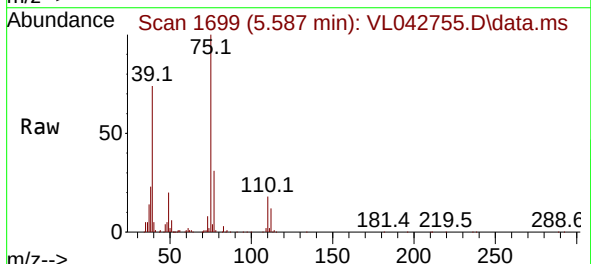
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

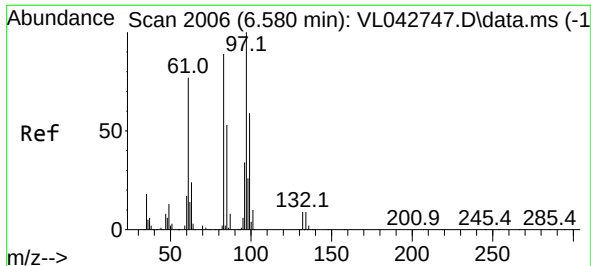
Tgt Ion: 75 Resp: 169563
 Ion Ratio Lower Upper
 75 100
 77 29.5 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 10.679 ppbv
 RT: 5.587 min Scan# 1699
 Delta R.T. -0.010 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 75 Resp: 215596
 Ion Ratio Lower Upper
 75 100
 39 73.3 60.2 90.2
 77 30.9 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 5.445 ppbv

RT: 6.571 min Scan# 2006

Delta R.T. -0.010 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 97 Resp: 85637

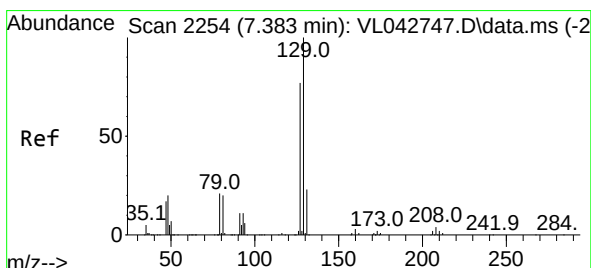
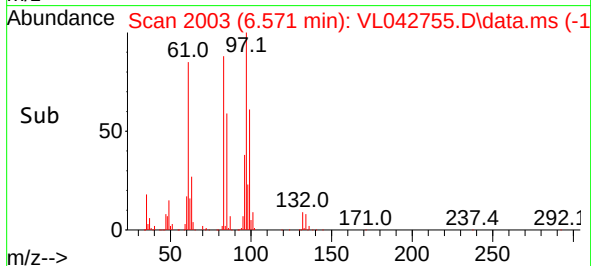
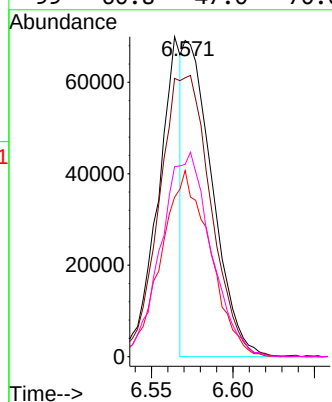
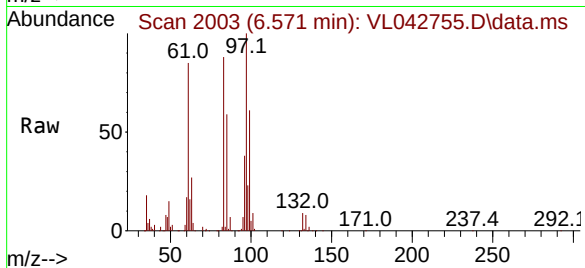
Ion Ratio Lower Upper

97 100

83 88.0 71.1 106.7

85 58.7 43.0 64.4

99 60.8 47.0 70.6



#48

Dibromochloromethane

Concen: 10.460 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042755.D

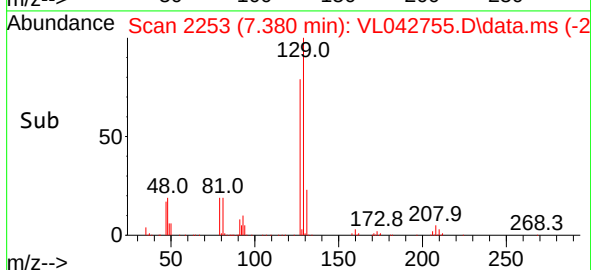
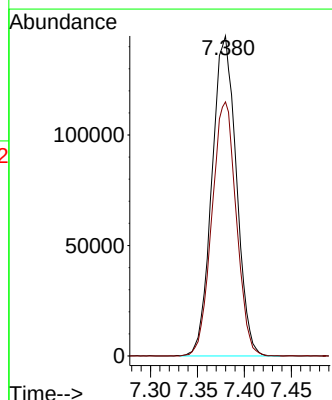
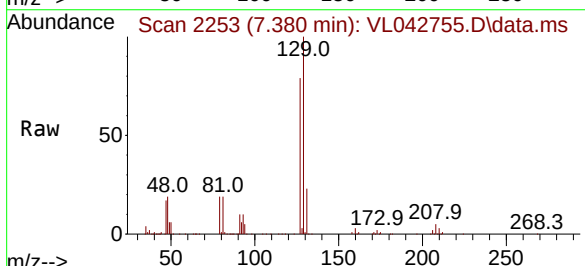
Acq: 23 Jul 2025 14:33

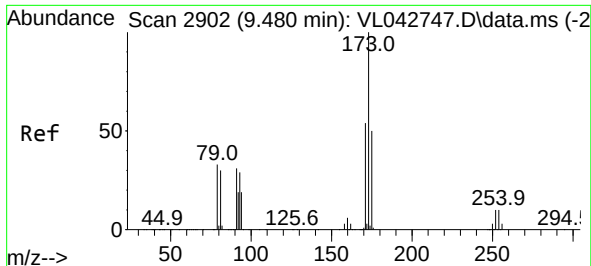
Tgt Ion: 129 Resp: 261174

Ion Ratio Lower Upper

129 100

127 79.4 38.7 116.1





#49

Bromoform

Concen: 10.729 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

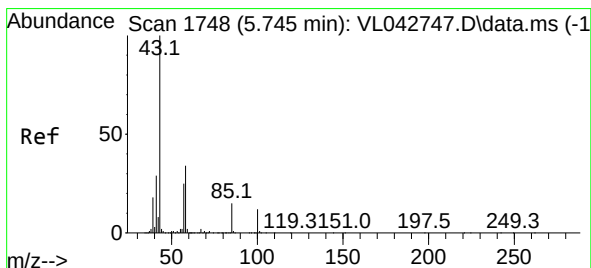
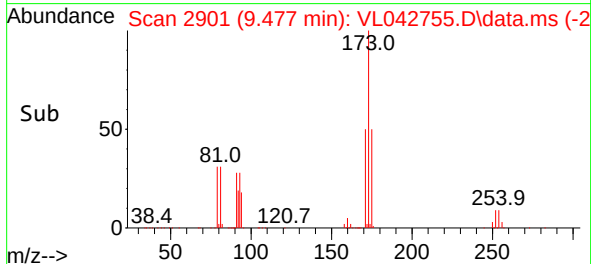
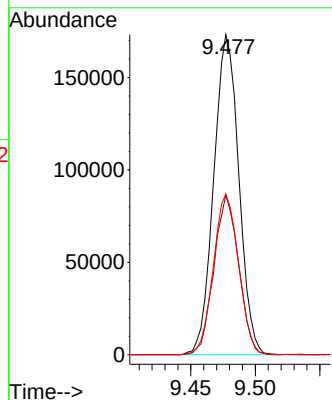
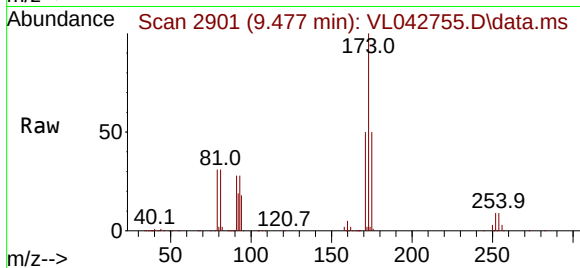
Tgt Ion:173 Resp: 233573

Ion Ratio Lower Upper

173 100

175 49.0 38.4 57.6

171 50.7 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 10.303 ppbv

RT: 5.736 min Scan# 1745

Delta R.T. -0.010 min

Lab File: VL042755.D

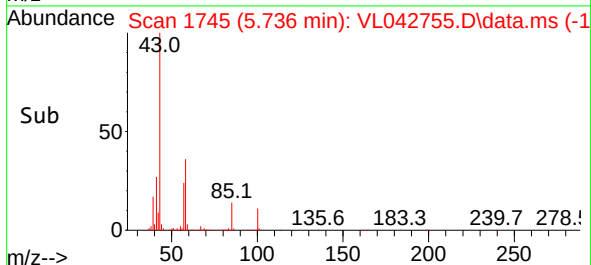
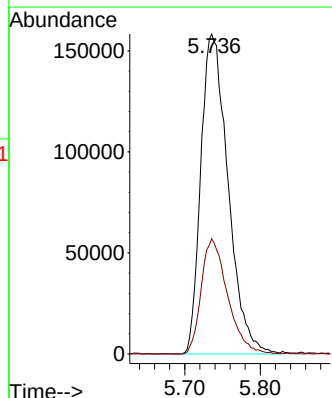
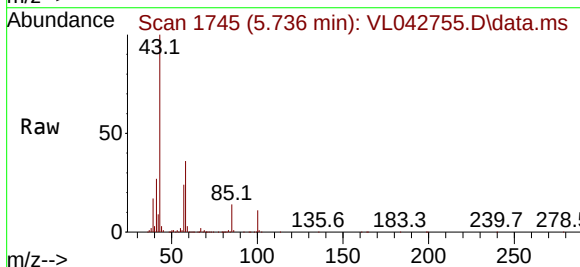
Acq: 23 Jul 2025 14:33

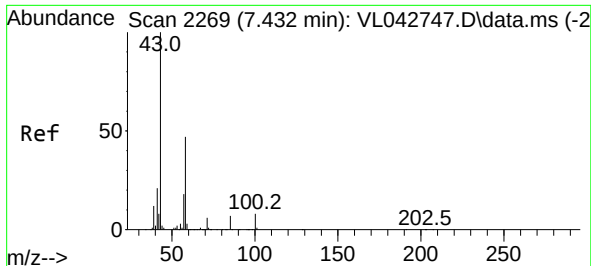
Tgt Ion: 43 Resp: 396506

Ion Ratio Lower Upper

43 100

58 34.9 27.8 41.8

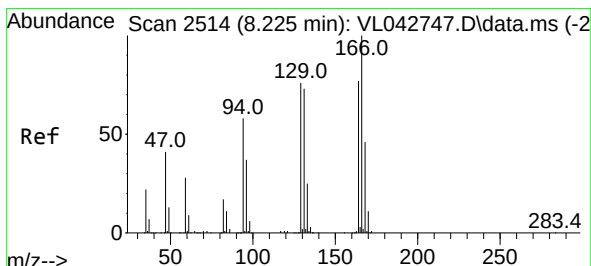
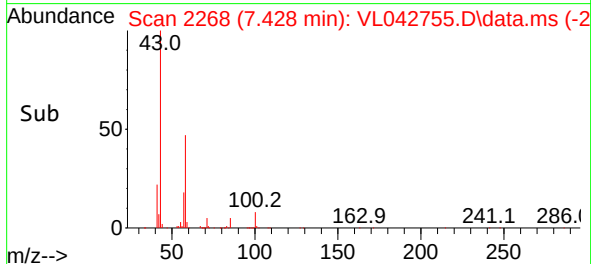
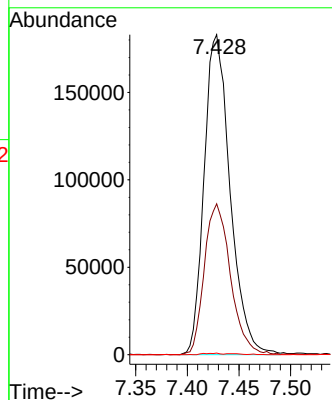
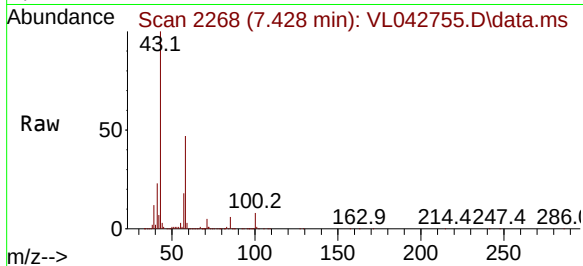




#51
2-Hexanone
Concen: 11.029 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

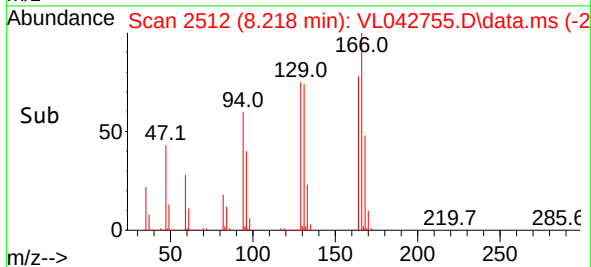
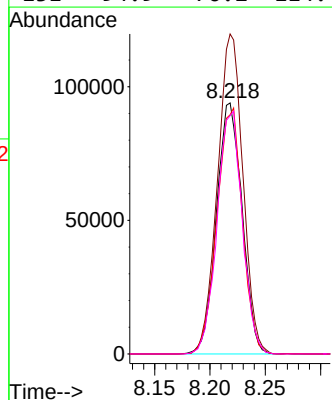
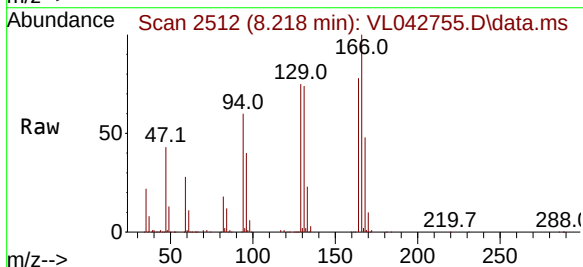
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

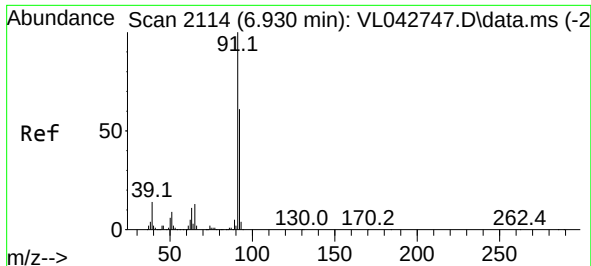
Tgt Ion: 43 Resp: 320740
Ion Ratio Lower Upper
43 100
58 47.8 38.0 57.0
98 0.5 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.163 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:164 Resp: 151810
Ion Ratio Lower Upper
164 100
166 127.4 104.0 156.0
129 95.3 79.2 118.8
131 94.9 76.2 114.4

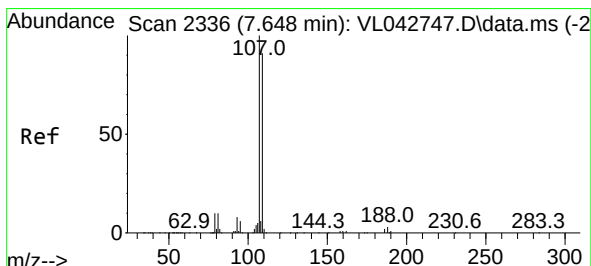
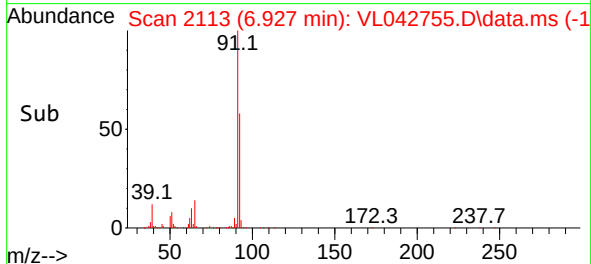
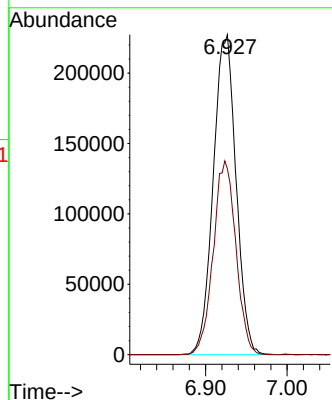
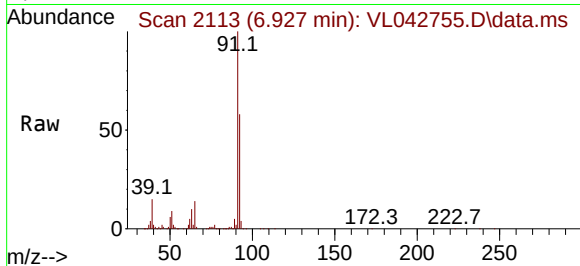




#53
Toluene
Concen: 10.294 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

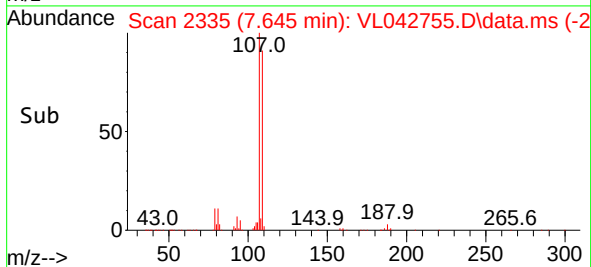
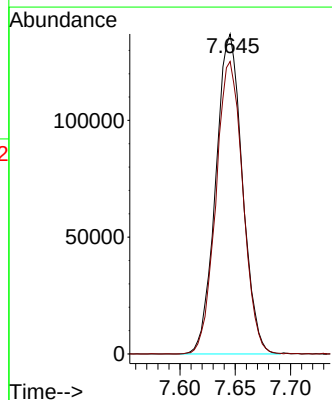
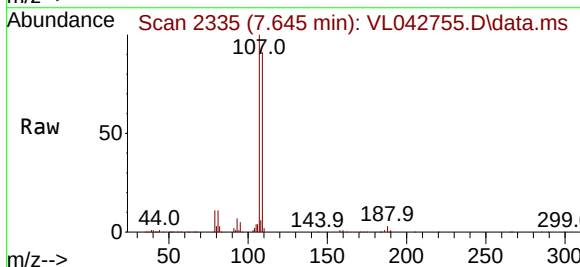
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

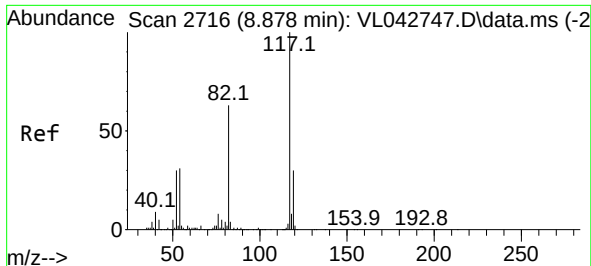
Tgt Ion: 91 Resp: 441829
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0



#54
1,2-Dibromoethane
Concen: 10.331 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 107 Resp: 229563
Ion Ratio Lower Upper
107 100
109 91.3 72.7 109.1

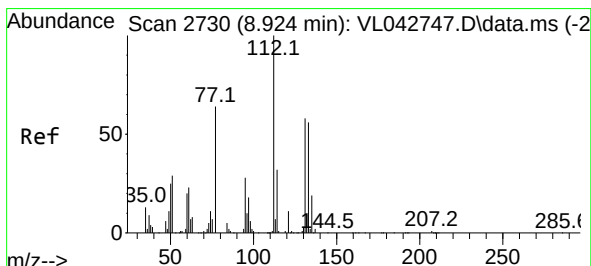
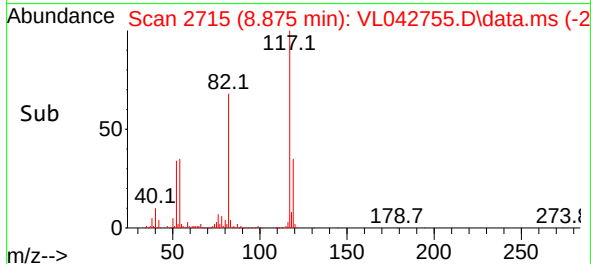
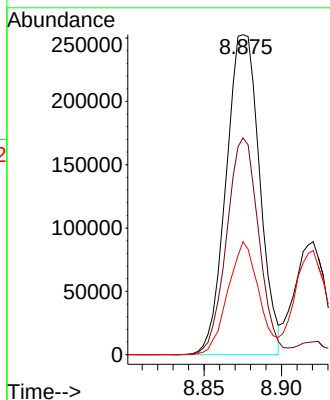
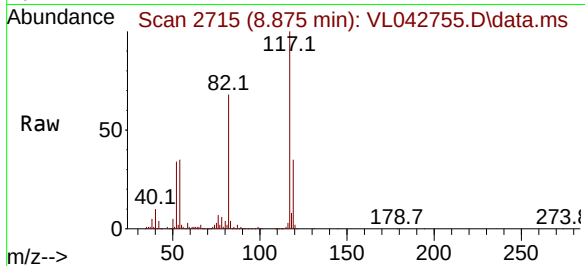




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

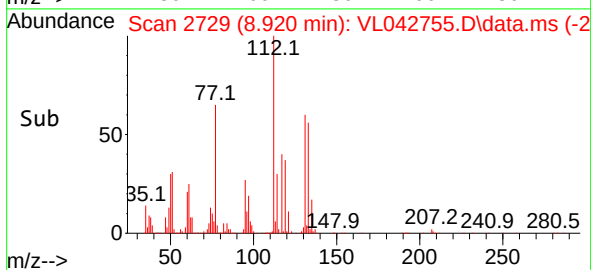
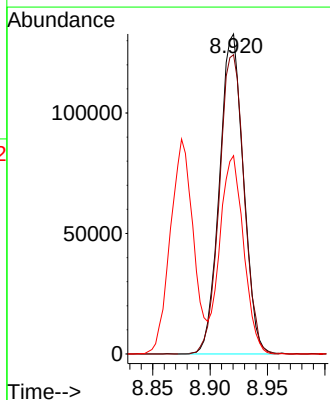
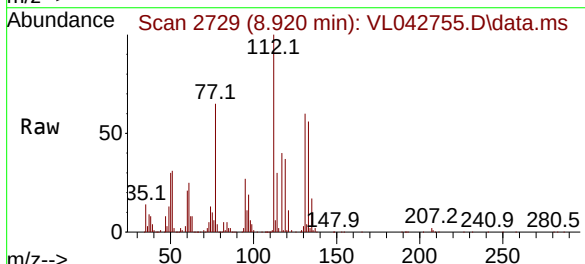
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

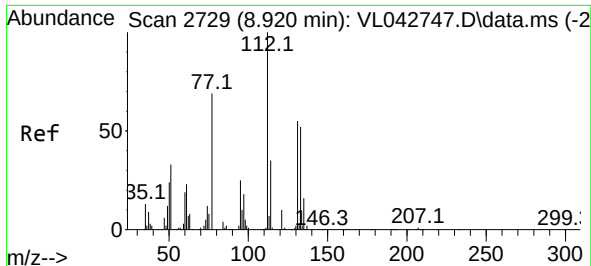
Tgt Ion:117 Resp: 380539
Ion Ratio Lower Upper
117 100
82 68.9 53.3 79.9
119 33.0 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 9.759 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:131 Resp: 193089
Ion Ratio Lower Upper
131 100
133 96.6 76.8 115.2
119 61.2 49.7 74.5

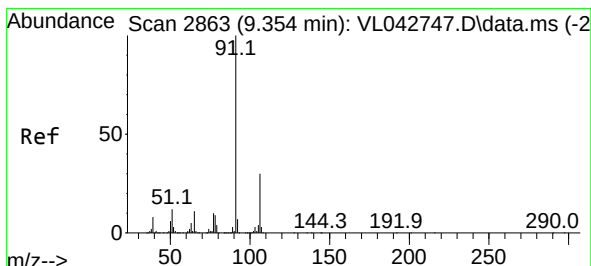
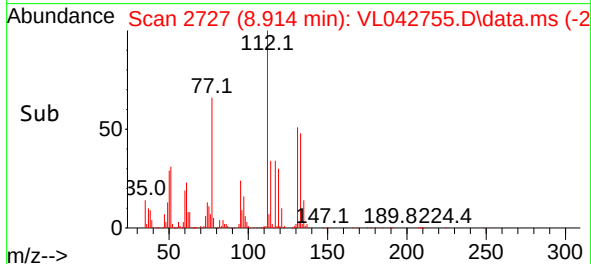
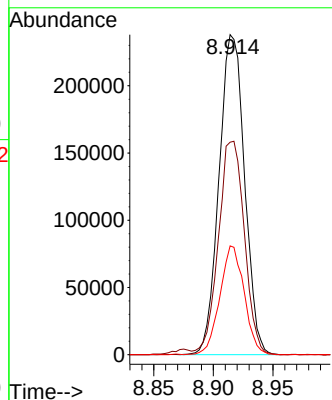
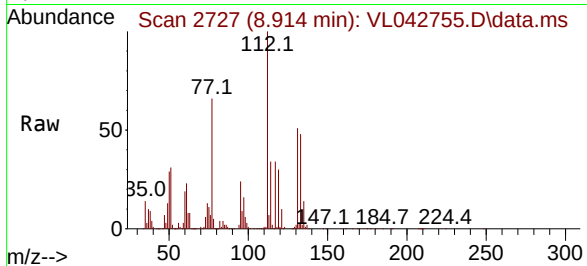




#57
Chlorobenzene
Concen: 9.623 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

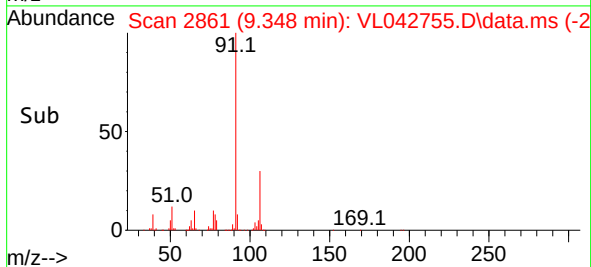
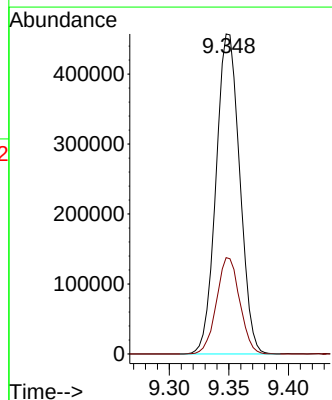
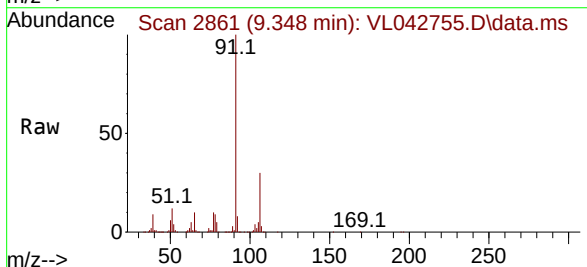
Instrument :
MSVOA_1
ClientSampleId :
ICVVL072325

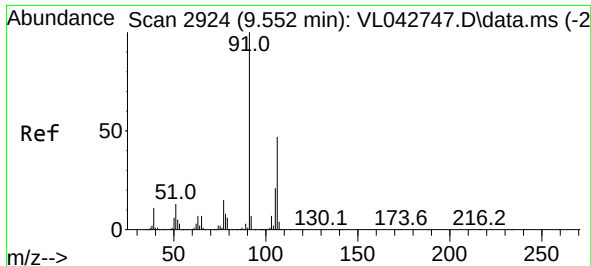
Tgt Ion:112 Resp: 354412
Ion Ratio Lower Upper
112 100
77 66.4 56.4 84.6
114 34.0 31.2 38.2



#58
Ethyl Benzene
Concen: 10.504 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 631247
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





#59

m/p-Xylene

Concen: 10.418 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_1

ClientSampleId :

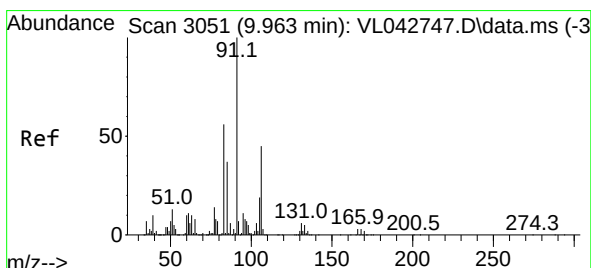
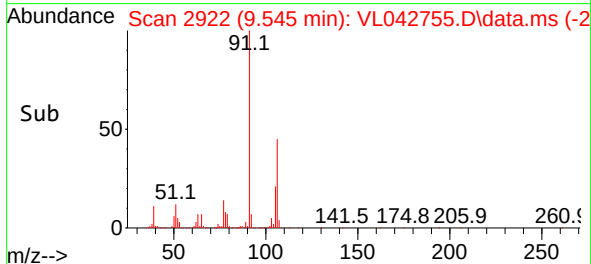
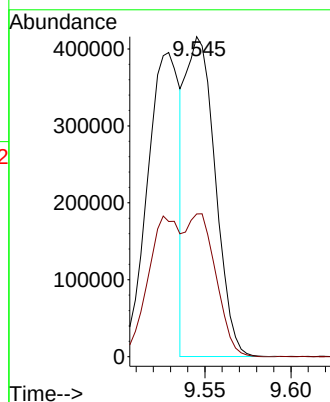
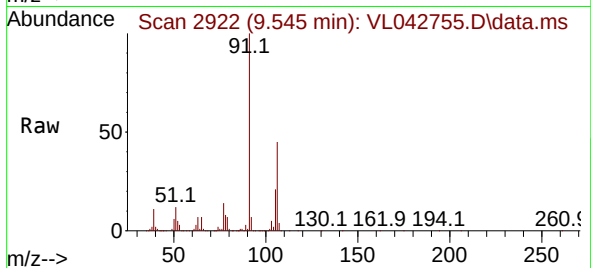
ICVVL072325

Tgt Ion: 91 Resp: 500367

Ion Ratio Lower Upper

91 100

106 92.3 37.4 56.2#



#60

o-Xylene

Concen: 10.499 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042755.D

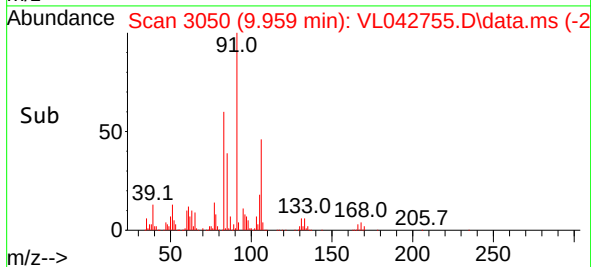
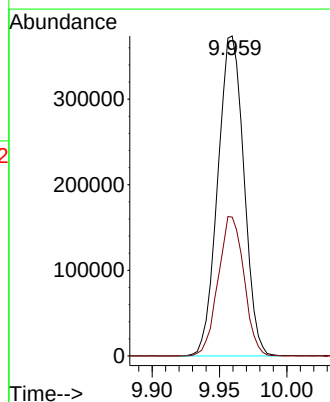
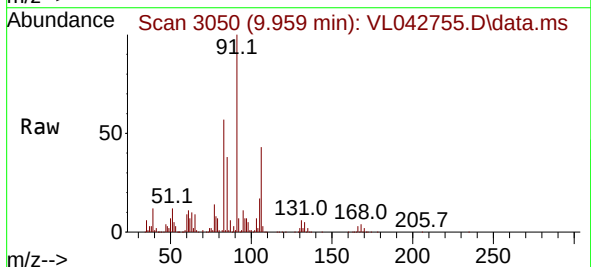
Acq: 23 Jul 2025 14:33

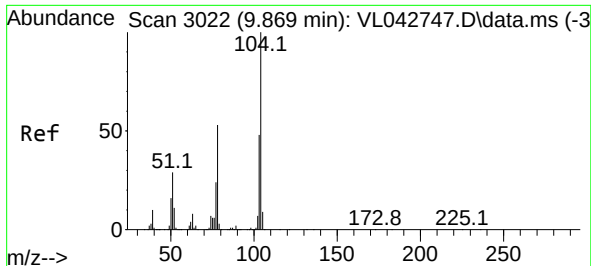
Tgt Ion: 91 Resp: 503849

Ion Ratio Lower Upper

91 100

106 43.1 22.0 66.0





#61

Styrene

Concen: 11.185 ppbv

RT: 9.866 min Scan# 3022

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

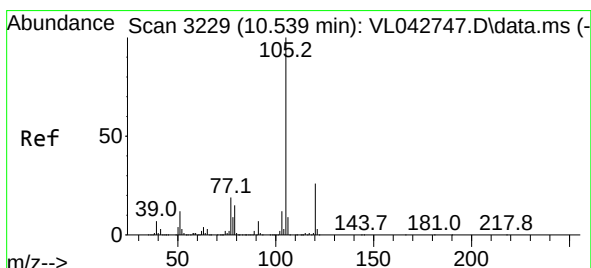
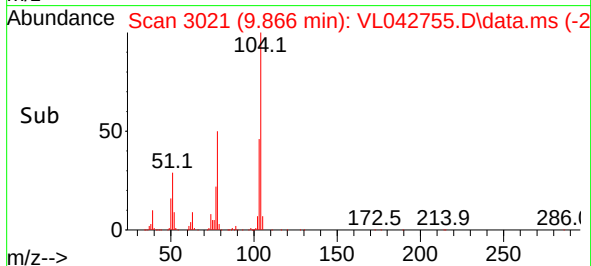
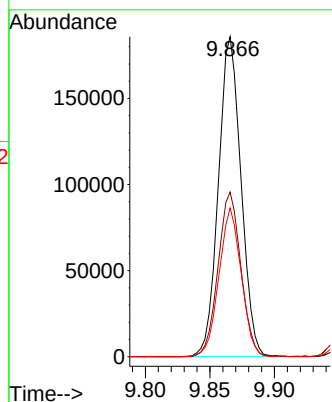
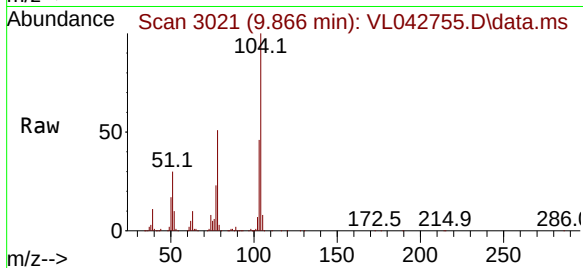
Tgt Ion:104 Resp: 225799

Ion Ratio Lower Upper

104 100

78 51.9 41.5 62.3

103 46.0 37.5 56.3



#62

Isopropylbenzene

Concen: 10.398 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042755.D

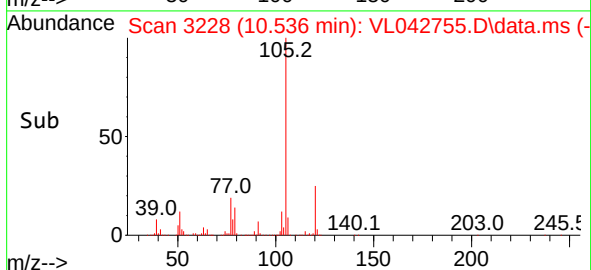
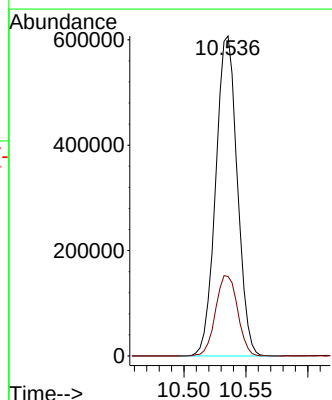
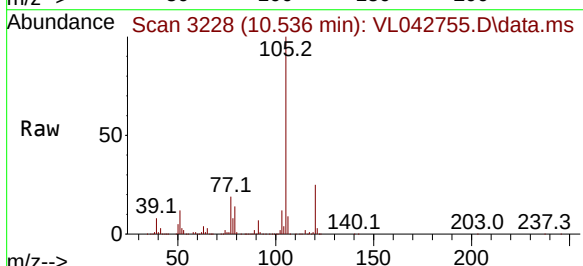
Acq: 23 Jul 2025 14:33

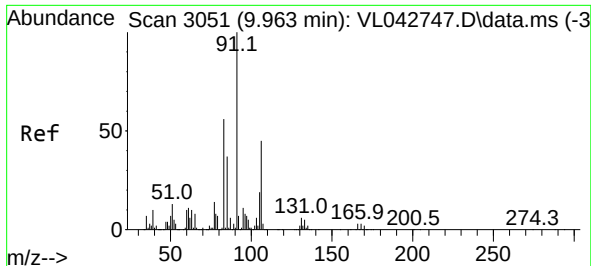
Tgt Ion:105 Resp: 736044

Ion Ratio Lower Upper

105 100

120 25.7 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 9.340 ppbv

RT: 9.956 min Scan# 3051

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

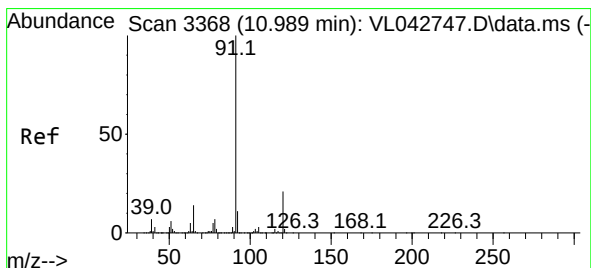
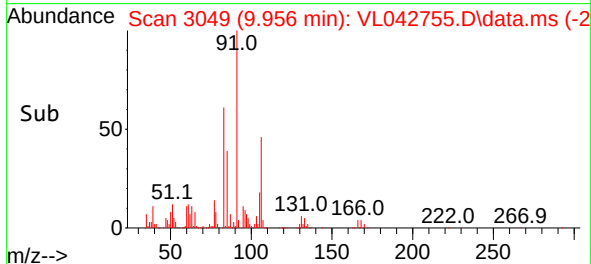
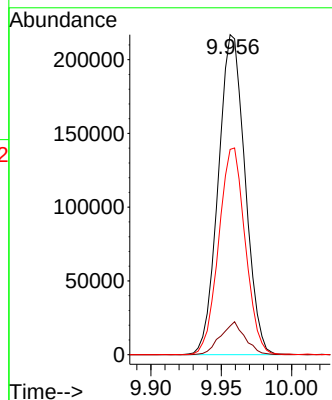
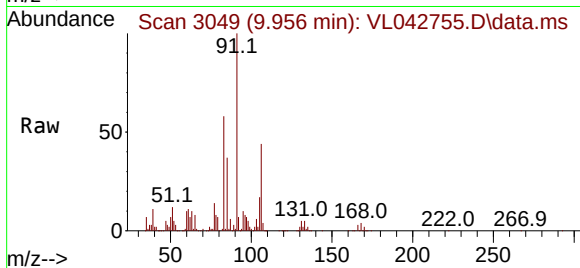
Tgt Ion: 83 Resp: 287775

Ion Ratio Lower Upper

83 100

131 9.4 5.0 15.0

85 64.0 32.6 97.7



#64

n-propylbenzene

Concen: 10.460 ppbv

RT: 10.982 min Scan# 3366

Delta R.T. -0.006 min

Lab File: VL042755.D

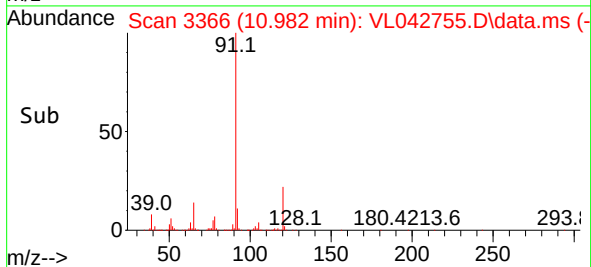
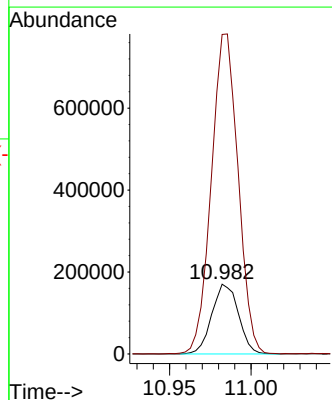
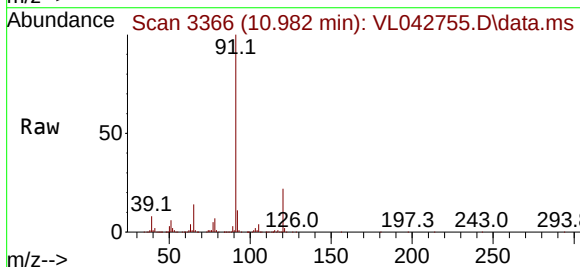
Acq: 23 Jul 2025 14:33

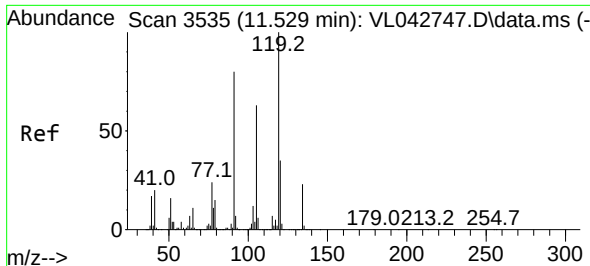
Tgt Ion: 120 Resp: 193034

Ion Ratio Lower Upper

120 100

91 461.7 372.7 559.1

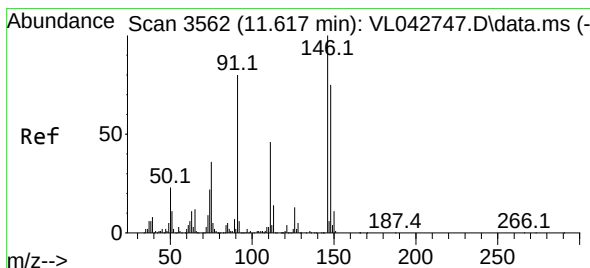
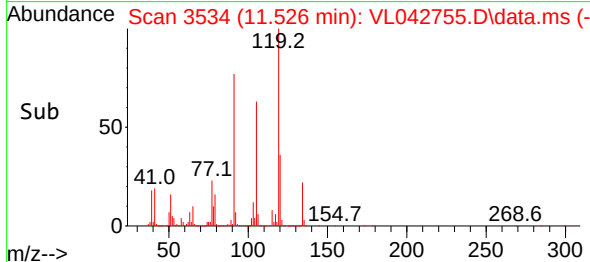
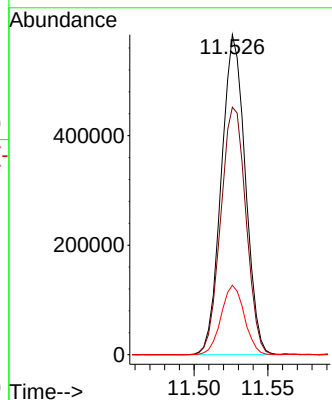
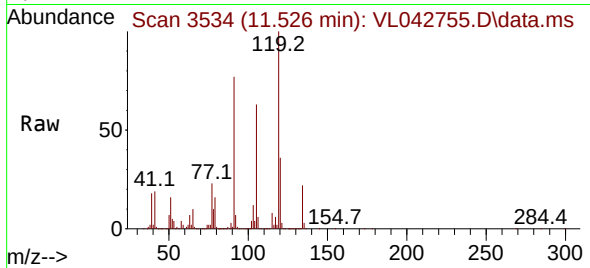




#65
tert-Butylbenzene
Concen: 10.512 ppbv
RT: 11.526 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

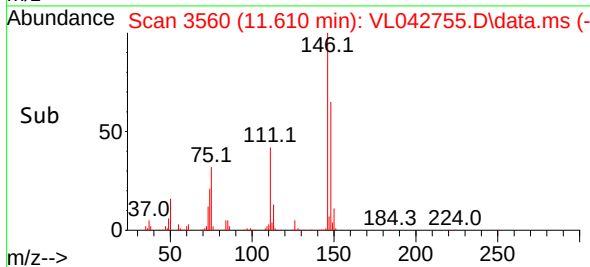
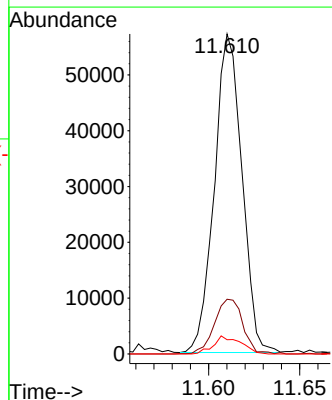
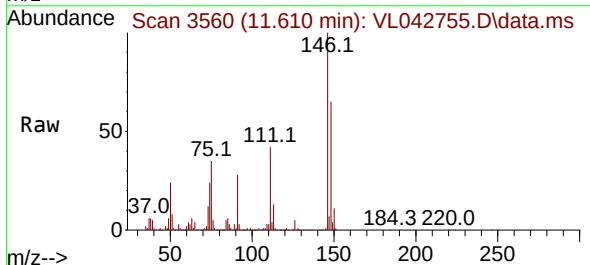
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

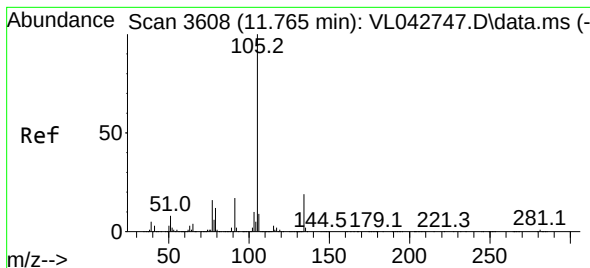
Tgt Ion:119 Resp: 660966
Ion Ratio Lower Upper
119 100
91 81.2 64.0 96.0
134 21.1 17.3 25.9



#66
Benzyl Chloride
Concen: 11.634 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 60055
Ion Ratio Lower Upper
91 100
126 17.7 14.4 21.6
128 5.6 5.2 7.8





#67

sec-Butylbenzene

Concen: 10.221 ppbv

RT: 11.762 min Scan# 3607

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

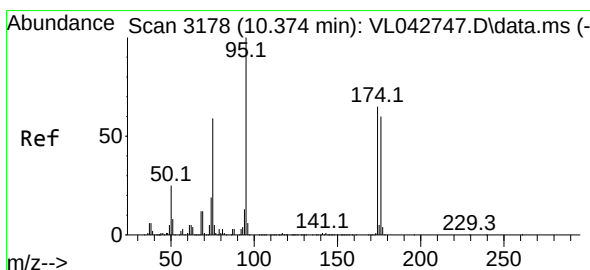
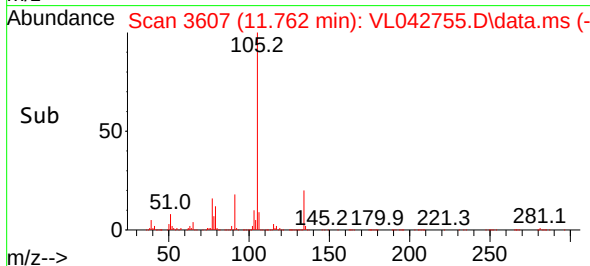
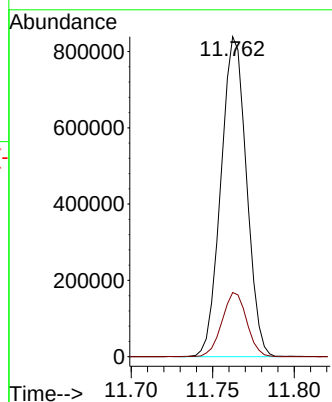
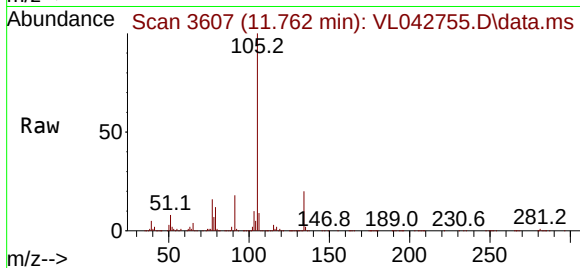
ICVVL072325

Tgt Ion:105 Resp: 914046

Ion Ratio Lower Upper

105 100

134 19.5 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.397 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

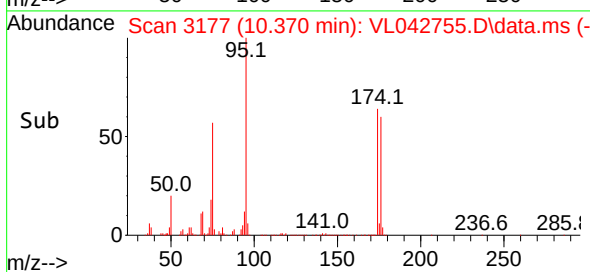
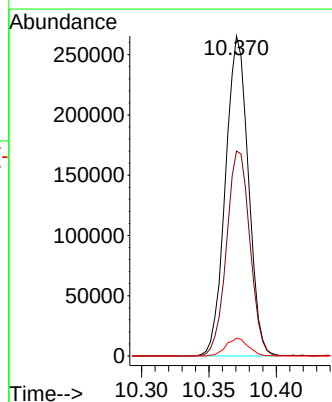
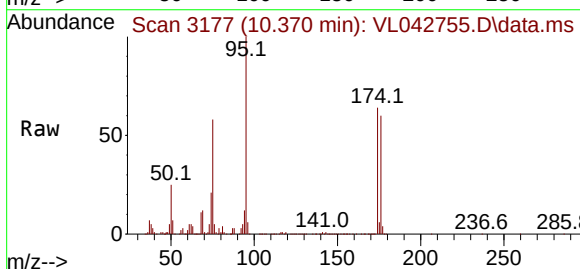
Tgt Ion: 95 Resp: 313324

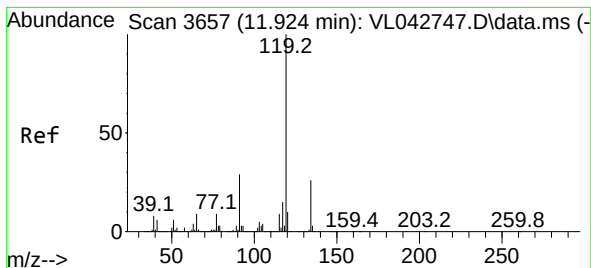
Ion Ratio Lower Upper

95 100

174 65.8 53.8 80.6

175 5.4 4.0 6.0

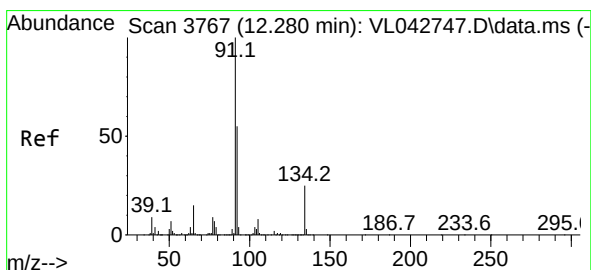
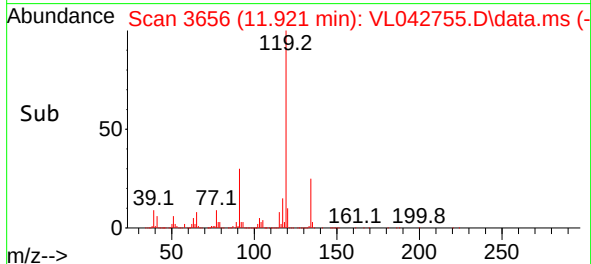
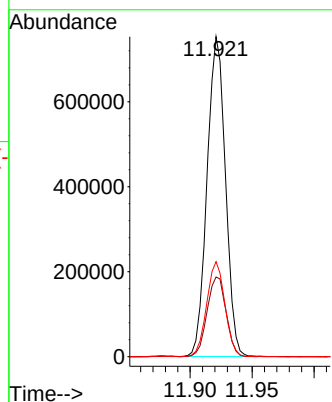
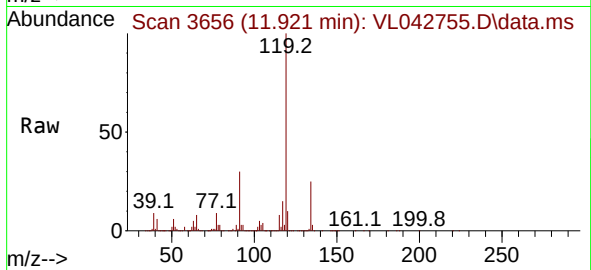




#69
 p-Isopropyltoluene
 Concen: 10.677 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

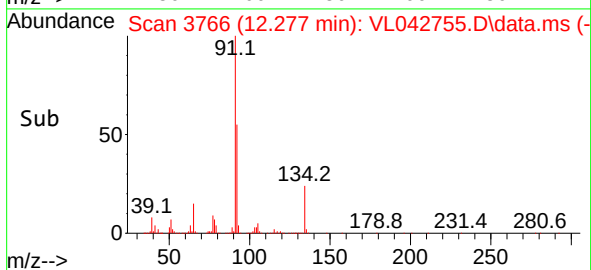
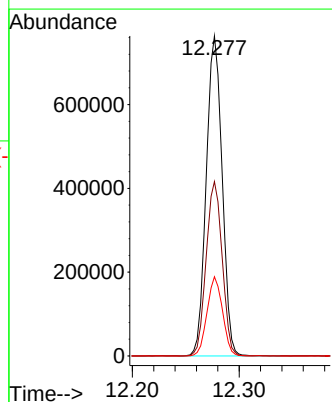
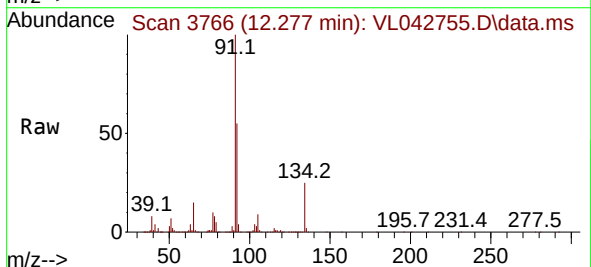
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

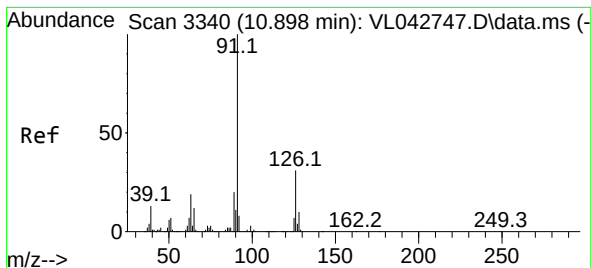
Tgt Ion:119 Resp: 778601
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.6 31.0
 91 29.5 23.2 34.8



#70
 n-Butylbenzene
 Concen: 11.197 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 788734
 Ion Ratio Lower Upper
 91 100
 92 55.0 43.4 65.2
 134 24.1 19.6 29.4

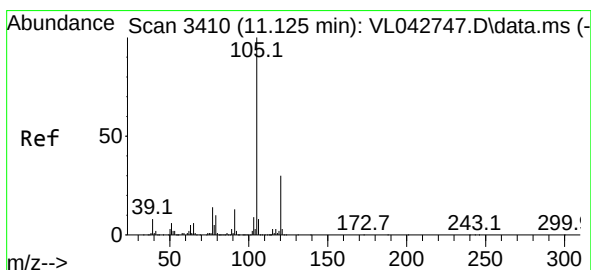
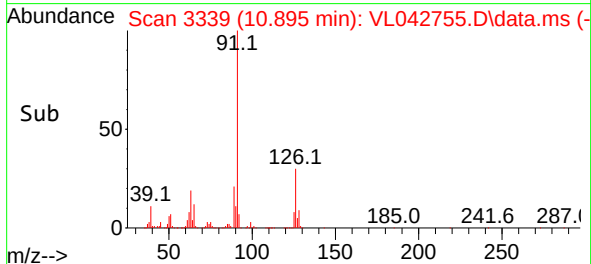
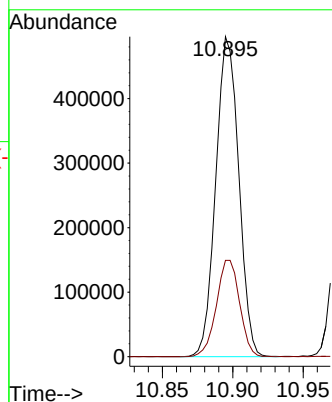
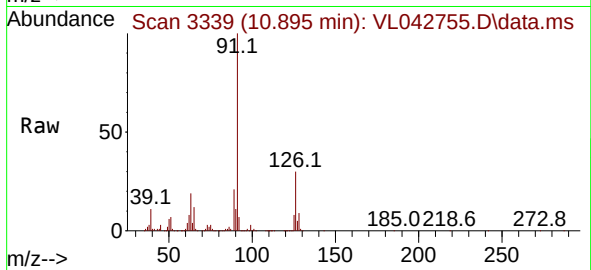




#71
2-Chlorotoluene
Concen: 10.376 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

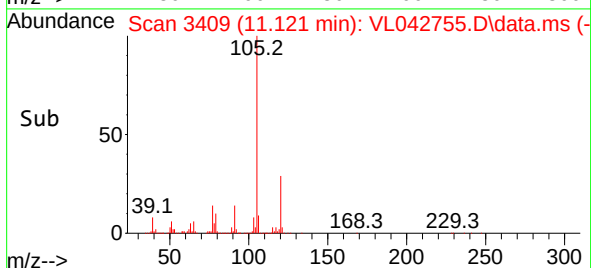
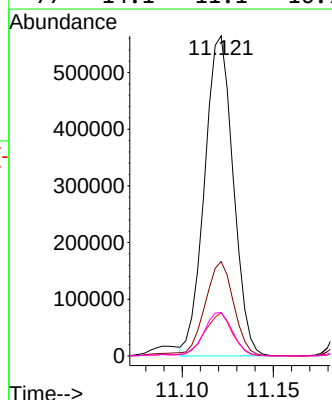
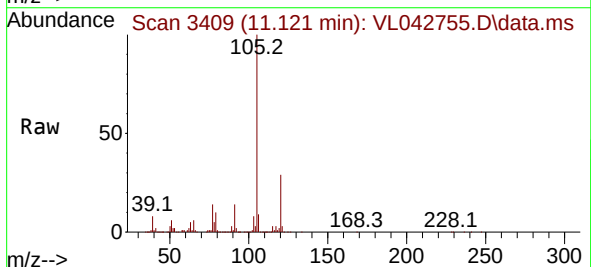
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

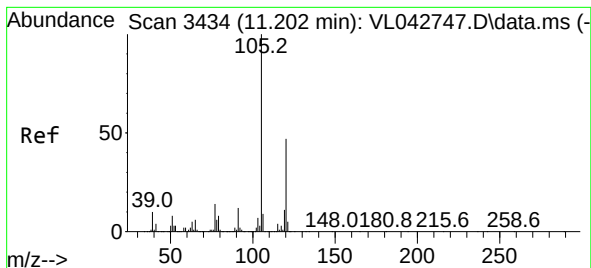
Tgt Ion: 91 Resp: 563193
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 10.772 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 617355
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 13.4 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.951 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

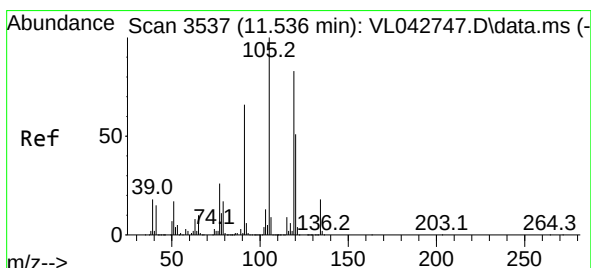
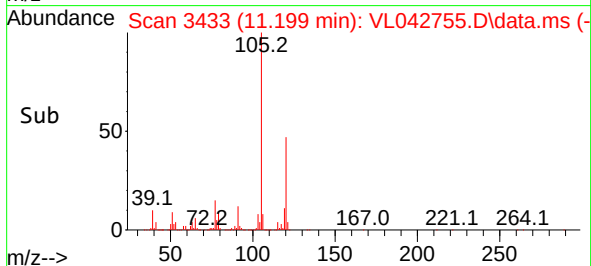
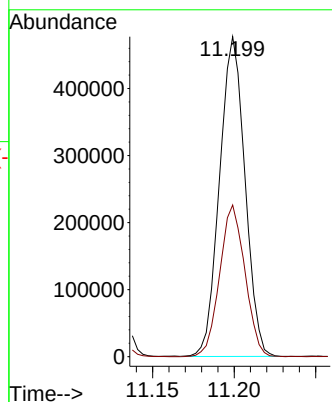
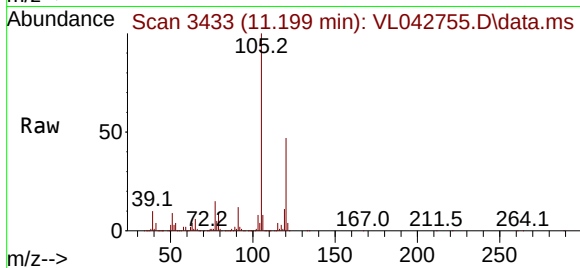
ICVVL072325

Tgt Ion:105 Resp: 516735

Ion Ratio Lower Upper

105 100

120 47.5 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 11.017 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 567186

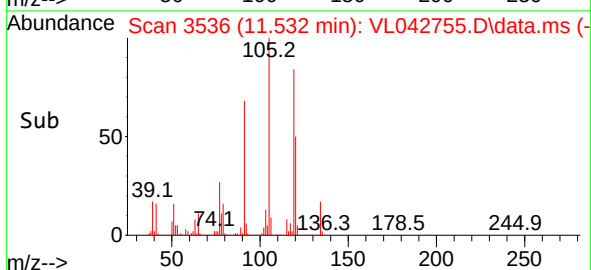
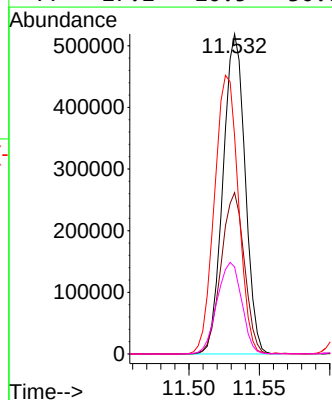
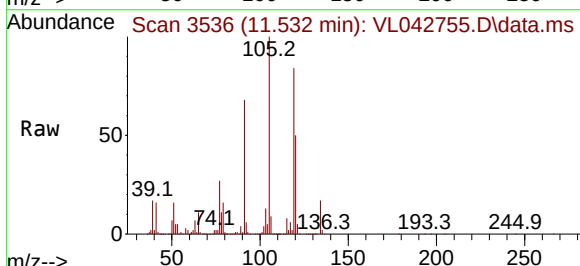
Ion Ratio Lower Upper

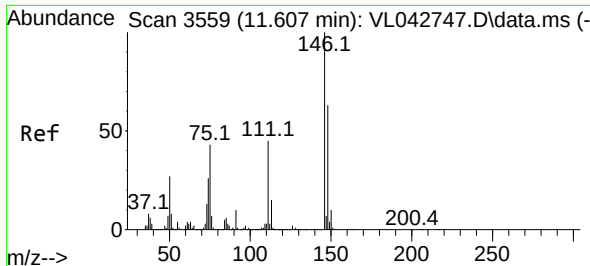
105 100

120 50.4 40.8 61.2

91 68.1 53.0 79.4

77 27.2 20.5 30.7

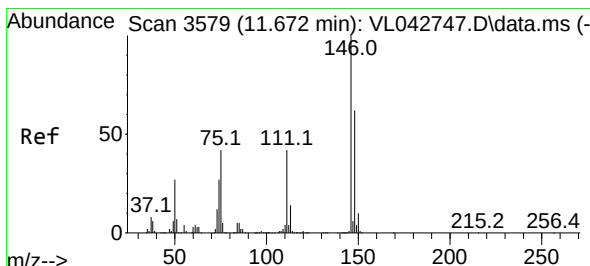
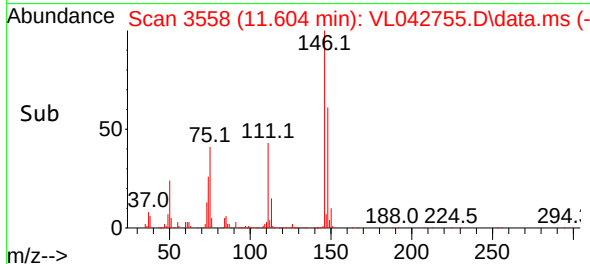
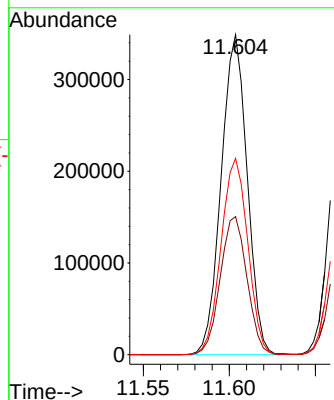
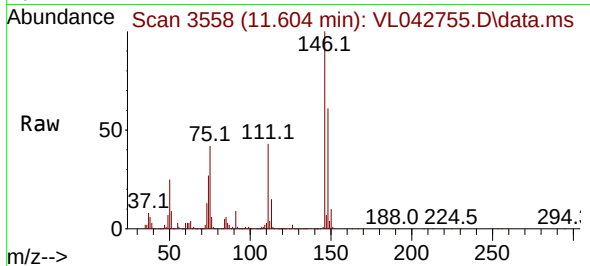




#75
1,3-Dichlorobenzene
Concen: 10.165 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

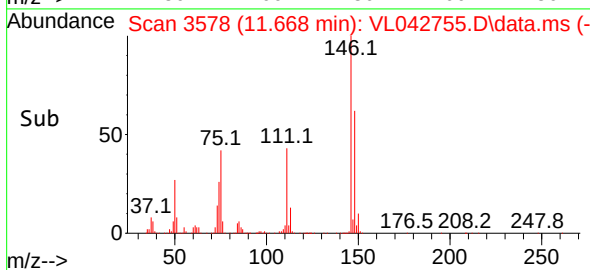
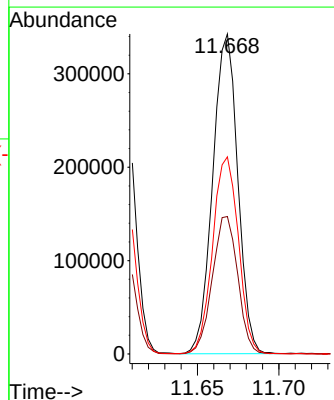
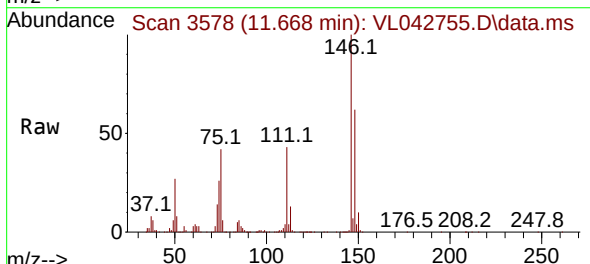
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

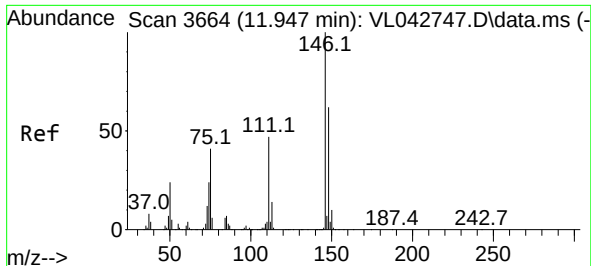
Tgt Ion:146 Resp: 366855
Ion Ratio Lower Upper
146 100
111 44.3 22.7 68.0
148 63.1 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 10.333 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:146 Resp: 364937
Ion Ratio Lower Upper
146 100
111 43.9 21.4 64.2
148 63.8 32.1 96.3

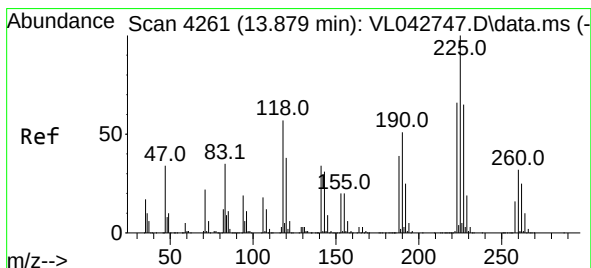
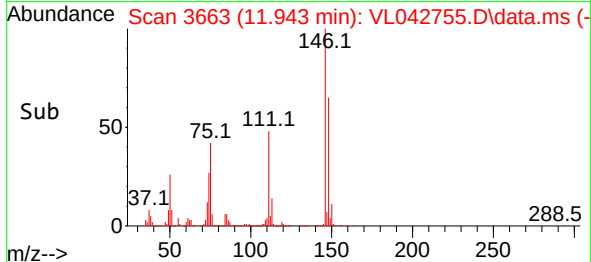
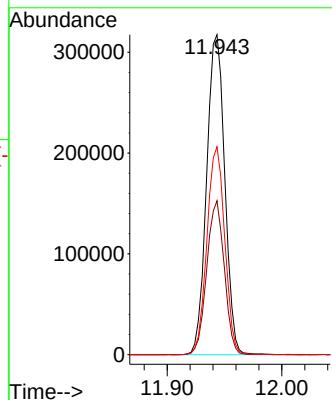
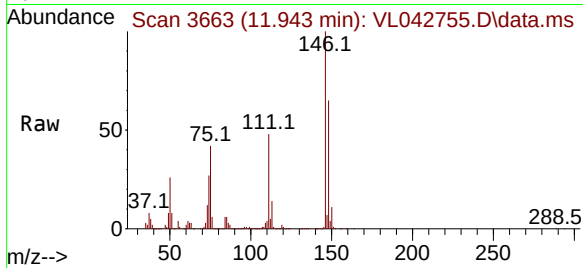




#77
 1,2-Dichlorobenzene
 Concen: 9.839 ppbv
 RT: 11.943 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

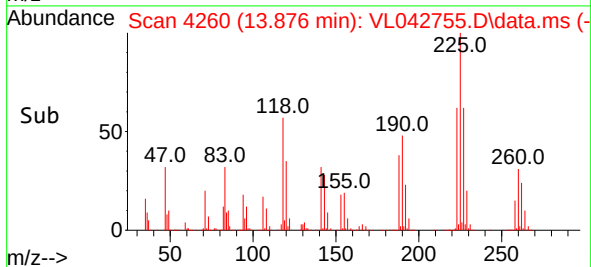
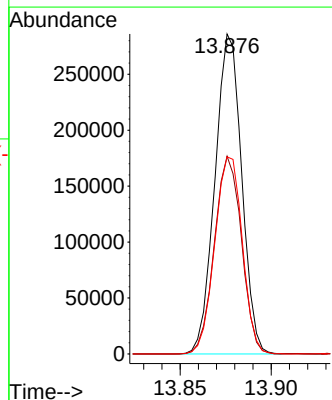
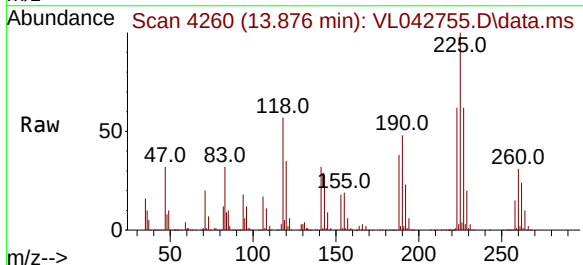
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

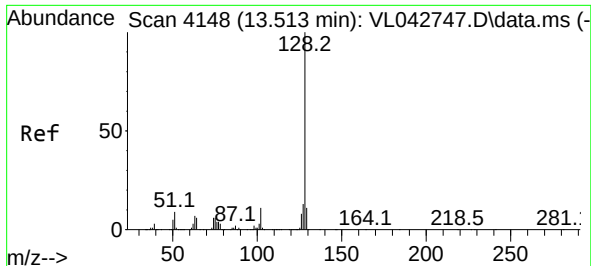
Tgt Ion:146 Resp: 348999
 Ion Ratio Lower Upper
 146 100
 111 46.7 23.7 71.1
 148 63.8 32.6 97.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.091 ppbv
 RT: 13.876 min Scan# 4260
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion:225 Resp: 291861
 Ion Ratio Lower Upper
 225 100
 223 62.5 50.7 76.1
 227 63.5 50.5 75.7

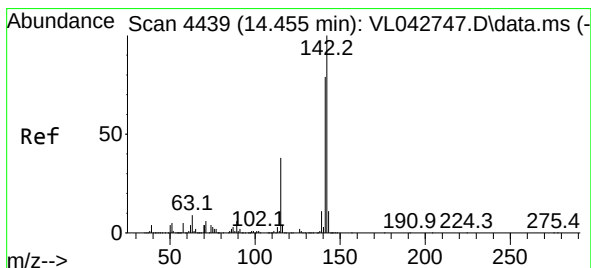
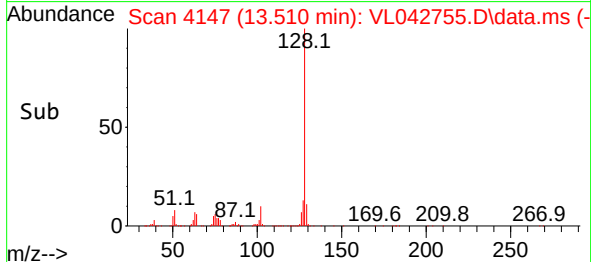
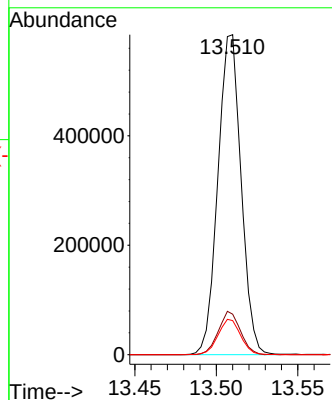
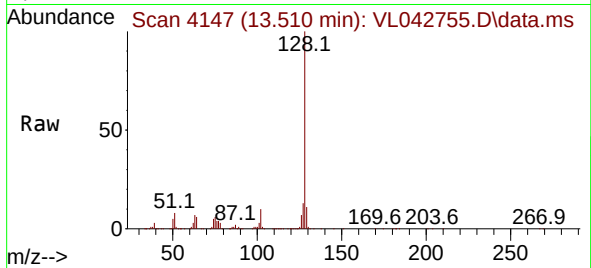




#79
Naphthalene
Concen: 10.342 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

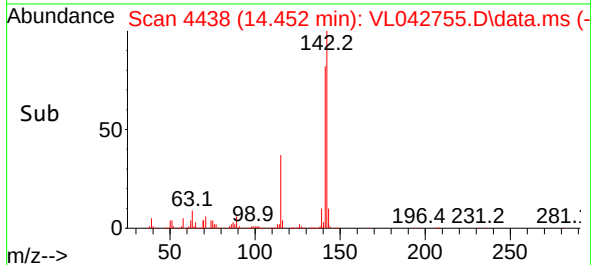
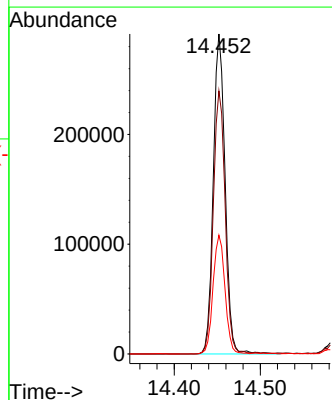
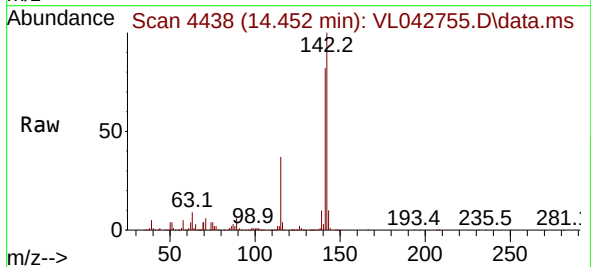
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

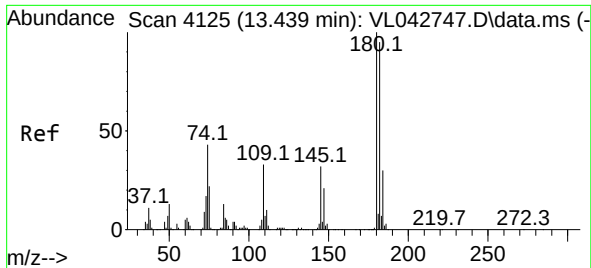
Tgt Ion:128 Resp: 578563
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.6 8.6 13.0



#80
Naphthalene,2-methyl-
Concen: 9.951 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

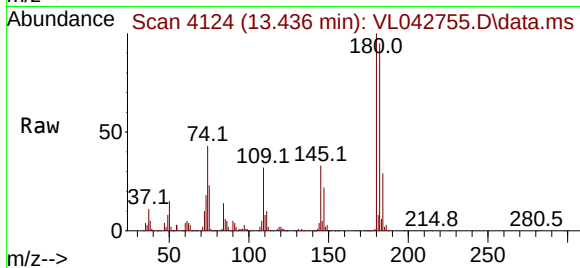
Tgt Ion:142 Resp: 277798
Ion Ratio Lower Upper
142 100
141 83.6 65.8 98.8
115 38.2 31.2 46.8



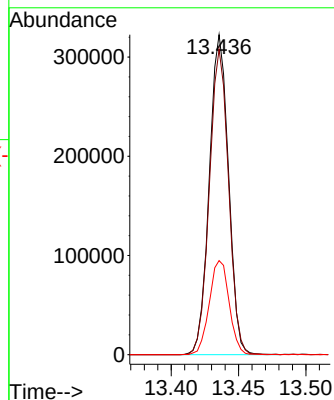
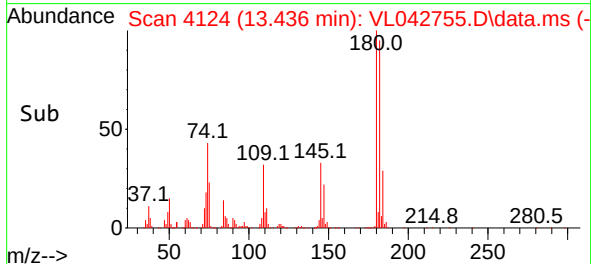


#81
 1,2,4-Trichlorobenzene
 Concen: 10.181 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



Tgt Ion:180 Resp: 319897
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.2
 184 30.5 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Aug 01 01:12:06 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	2.794	49	139439	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	391811	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	345903	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	282020	10.295	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	175602	9.525	ppbv	99
3) Chlorodifluoromethane	1.479	51	245813	10.235	ppbv	98
4) Chloromethane	1.534	50	69667	9.341	ppbv	96
5) Vinyl Chloride	1.583	62	64707	8.781	ppbv	94
6) Bromomethane	1.670	94	28024	9.837	ppbv	96
7) Chloroethane	1.706	64	26081	9.160	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	145116	9.571	ppbv	98
9) Propene	1.486	41	94980	10.882	ppbv	100
10) Heptane	4.991	43	257717	10.950	ppbv	96
11) Trichlorofluoromethane	1.881	101	173476	9.128	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	138636	9.600	ppbv	97
13) Ethanol	1.725	45	7183	10.150	ppbv	95
14) Bromoethene	1.784	108	49283	9.639	ppbv	98
15) Acetone	1.839	43	152576	7.924	ppbv	100
16) 1,3-Butadiene	1.612	39	77405	9.425	ppbv	99
17) tert-Butyl alcohol	2.043	59	160407	9.237	ppbv	99
18) 1,1-Dichloroethene	2.039	96	60001	9.195	ppbv	92
19) Isopropyl Alcohol	1.891	45	94435	9.229	ppbv	95
20) Methylene Chloride	2.065	84	51973	8.566	ppbv	95
21) Allyl Chloride	2.101	41	117837	9.930	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	67488	9.614	ppbv	95
23) Vinyl Acetate	2.467	43	285868	12.247	ppbv	99
24) 1,1-Dichloroethane	2.415	63	136815	9.496	ppbv	100
25) Ethyl Acetate	2.842	43	456109	10.702	ppbv	100
26) Hexane	2.832	57	194417	10.399	ppbv	98
27) Carbon Disulfide	2.156	76	165760	10.356	ppbv	96
28) Methyl tert-Butyl Ether	2.447	73	88166	9.982	ppbv	98
29) Chloroform	2.855	83	301928	10.451	ppbv	95
30) Cyclohexane	3.865	84	164864	10.398	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	196928	10.250	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	296432	9.850	ppbv	100
34) 2-Butanone	2.561	43	297678	10.726	ppbv	98
35) Carbon Tetrachloride	3.771	117	310581	10.672	ppbv	98
36) Benzene	3.664	78	391679	10.548	ppbv	99
37) 1,2-Dichloroethane	3.227	62	236929	10.592	ppbv	99
38) Trichloroethene	4.561	130	178226	9.991	ppbv	97
39) 1,2-Dichloropropane	4.324	63	143986	10.505	ppbv	95
40) 1,4-Dioxane	4.596	88	64201	10.049	ppbv #	94
41) Tetrahydrofuran	3.059	42	161670	11.447	ppbv	97
42) Bromodichloromethane	4.499	83	324091	11.125	ppbv	100
43) Methyl Methacrylate	4.891	69	150704	11.418	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	674333	11.142	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	168632	11.393	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

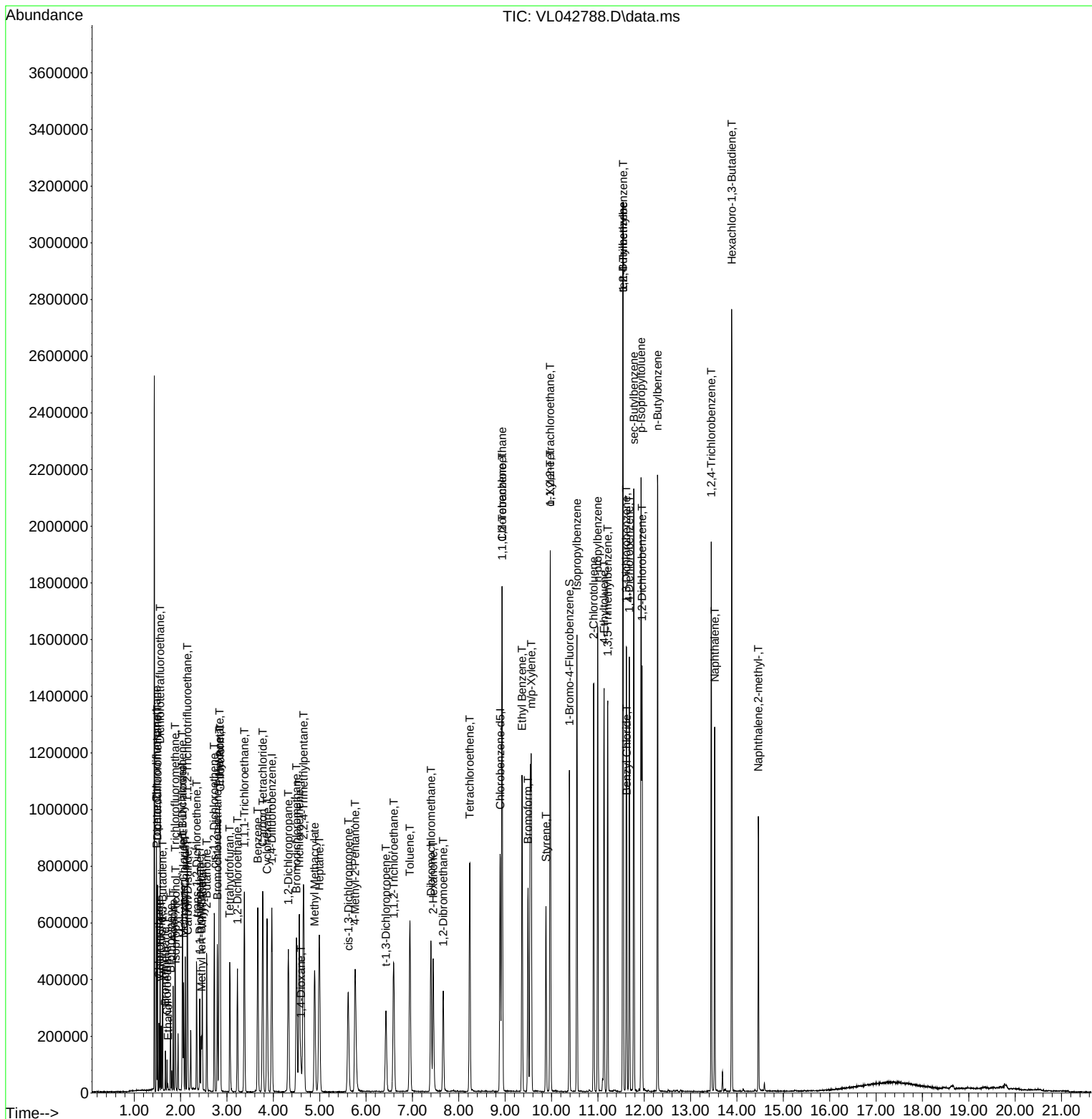
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

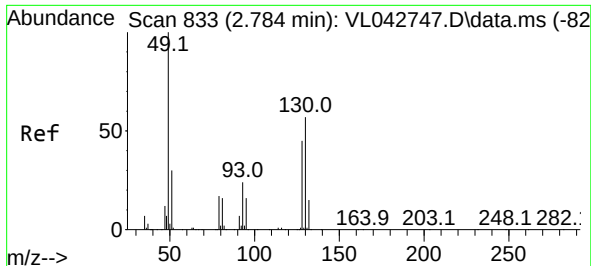
Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	217364	11.589	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	155145	10.618	ppbv	97
48) Dibromochloromethane	7.399	129	263177	11.346	ppbv	98
49) Bromoform	9.493	173	233626	11.551	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	396864	11.101	ppbv	100
51) 2-Hexanone	7.448	43	318210	11.778	ppbv #	99
52) Tetrachloroethene	8.234	164	143437	9.319	ppbv	98
53) Toluene	6.946	91	440370	11.044	ppbv	99
54) 1,2-Dibromoethane	7.665	107	228691	11.078	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	196819	10.944	ppbv	99
57) Chlorobenzene	8.933	112	349998	10.455	ppbv #	95
58) Ethyl Benzene	9.364	91	615736	11.272	ppbv	99
59) m/p-Xylene	9.561	91	478347	10.957	ppbv #	24
60) o-Xylene	9.972	91	497901	11.414	ppbv	99
61) Styrene	9.882	104	215469	11.742	ppbv	99
62) Isopropylbenzene	10.549	105	716277	11.132	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	291626	10.413	ppbv	99
64) n-propylbenzene	10.998	120	193965	11.563	ppbv	98
65) tert-Butylbenzene	11.539	119	641028	11.215	ppbv	99
66) Benzyl Chloride	11.623	91	65004	13.854	ppbv	98
67) sec-Butylbenzene	11.775	105	905933	11.144	ppbv	100
69) p-Isopropyltoluene	11.931	119	763427	11.517	ppbv	99
70) n-Butylbenzene	12.287	91	779301	12.171	ppbv	99
71) 2-Chlorotoluene	10.908	91	552725	11.203	ppbv	100
72) 4-Ethyltoluene	11.134	105	611893	11.745	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	505734	11.791	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	562952	12.030	ppbv	93
75) 1,3-Dichlorobenzene	11.613	146	362463	11.049	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	359833	11.209	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	348624	10.812	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	282288	9.673	ppbv	98
79) Naphthalene	13.520	128	561584	11.014	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	249243	9.837	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	314832	10.987	ppbv	99

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

Quant Time: Aug 01 01:12:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

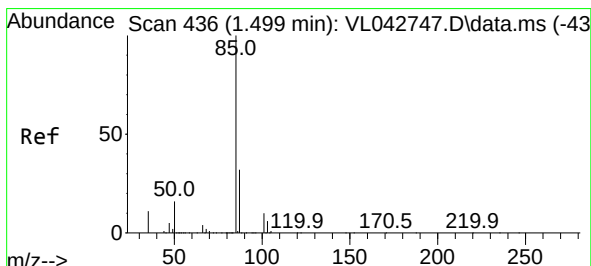
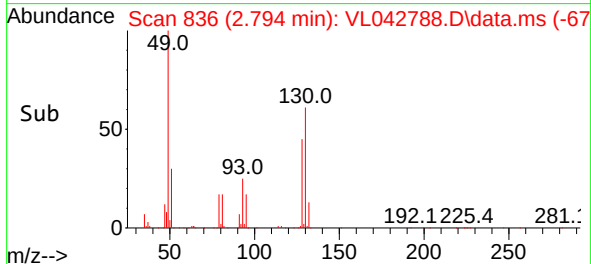
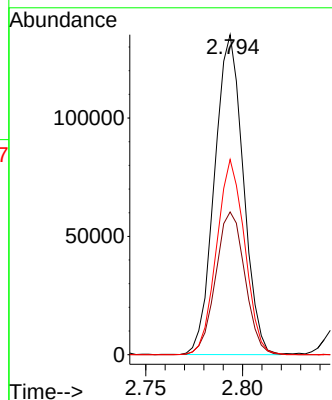
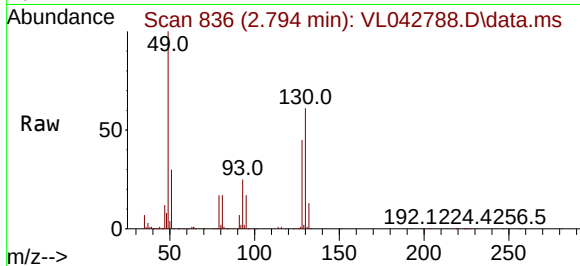




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

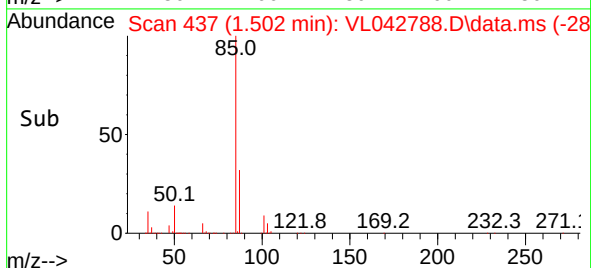
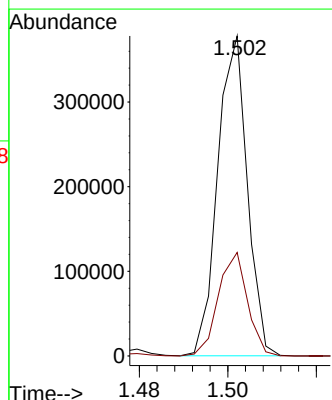
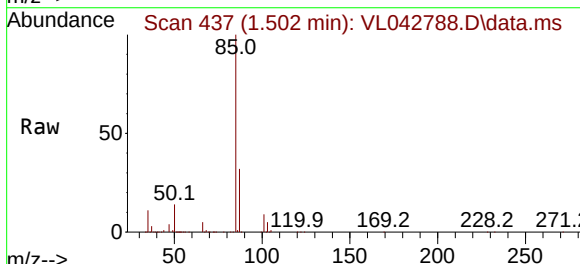
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

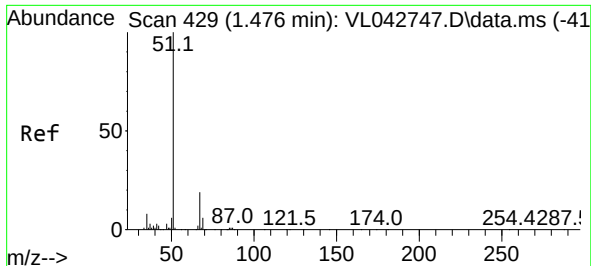
Tgt Ion: 49 Resp: 139439
Ion Ratio Lower Upper
49 100
128 45.4 23.6 71.0
130 59.7 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 85 Resp: 175602
Ion Ratio Lower Upper
85 100
87 32.3 25.4 38.2

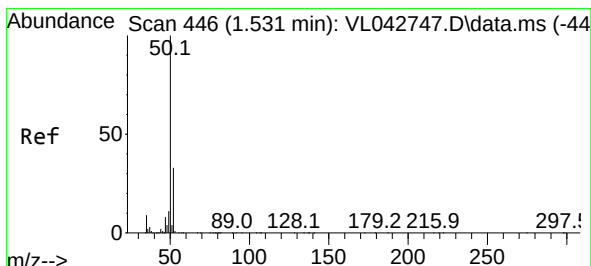
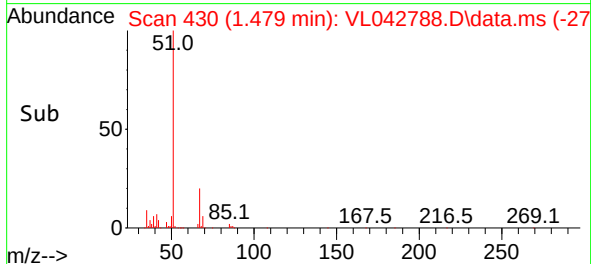
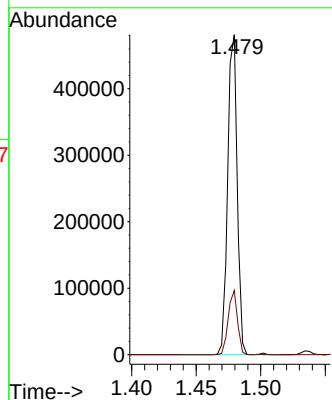
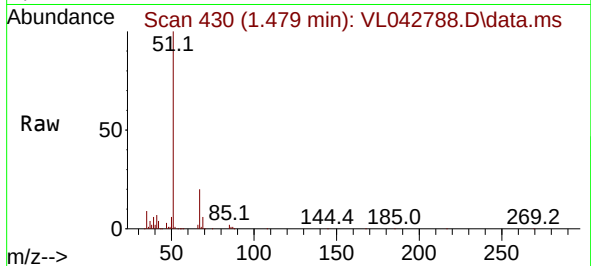




#3
Chlorodifluoromethane
Concen: 10.235 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

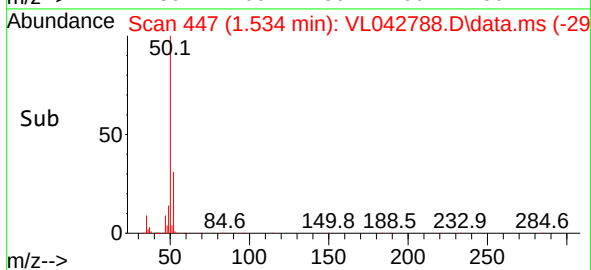
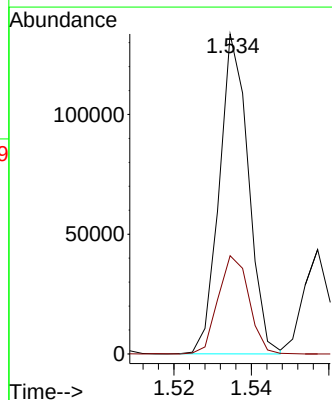
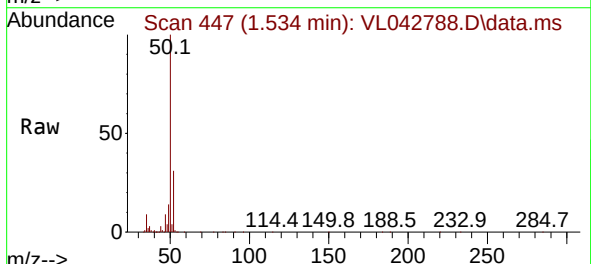
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

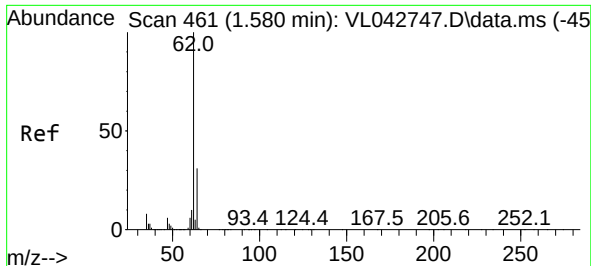
Tgt Ion: 51 Resp: 245813
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.6



#4
Chloromethane
Concen: 9.341 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 50 Resp: 69667
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

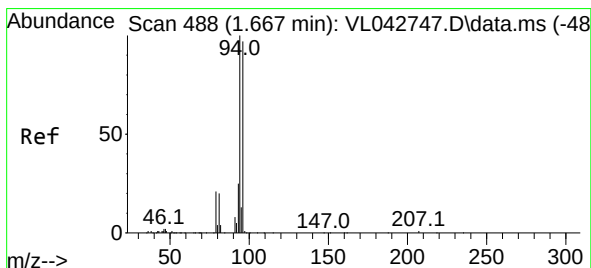
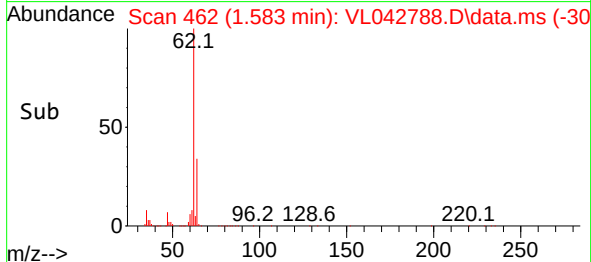
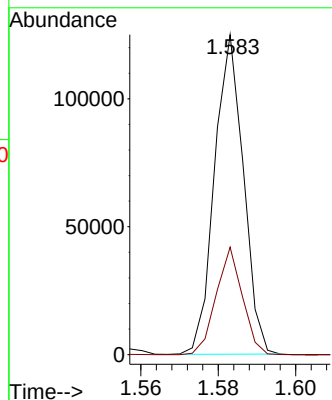
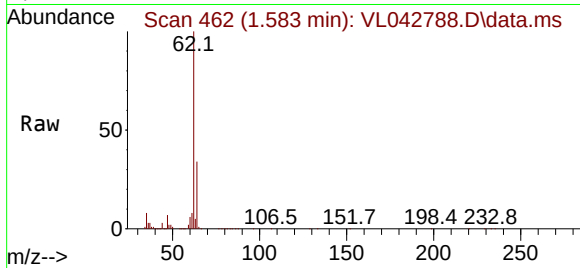




#5
 Vinyl Chloride
 Concen: 8.781 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

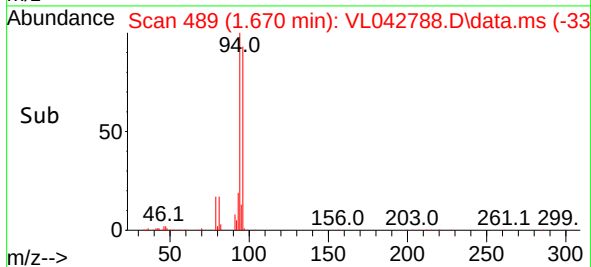
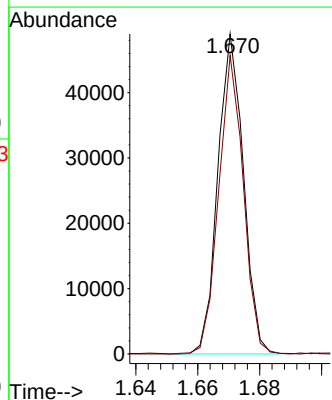
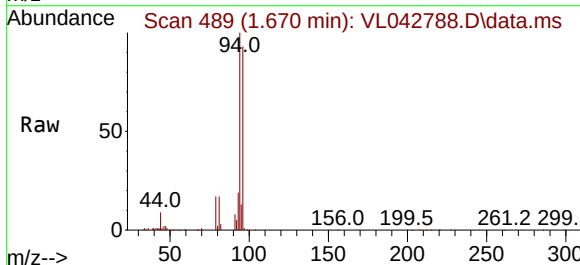
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

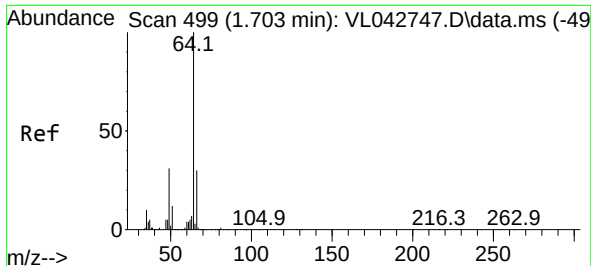
Tgt Ion: 62 Resp: 64707
 Ion Ratio Lower Upper
 62 100
 64 33.7 24.5 36.7



#6
 Bromomethane
 Concen: 9.837 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 94 Resp: 28024
 Ion Ratio Lower Upper
 94 100
 96 93.2 77.6 116.4

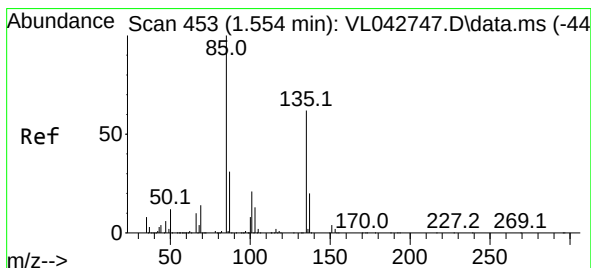
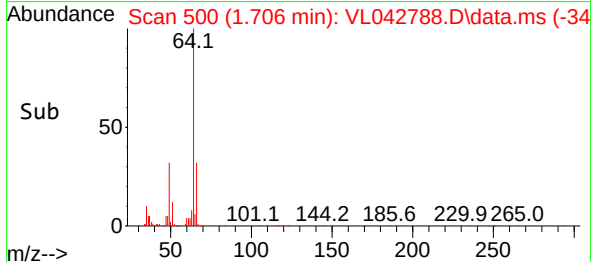
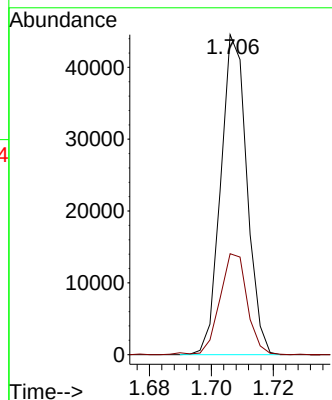
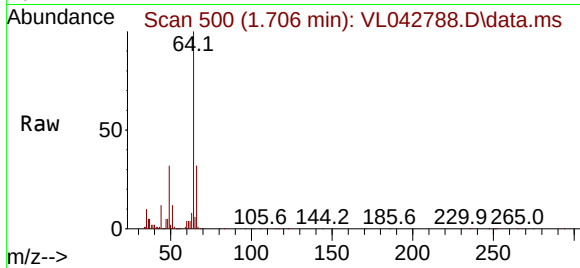




#7
Chloroethane
Concen: 9.160 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

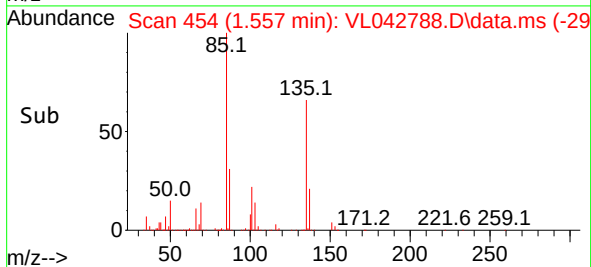
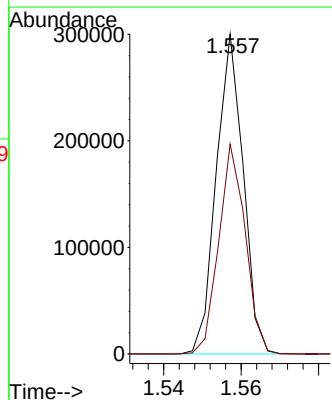
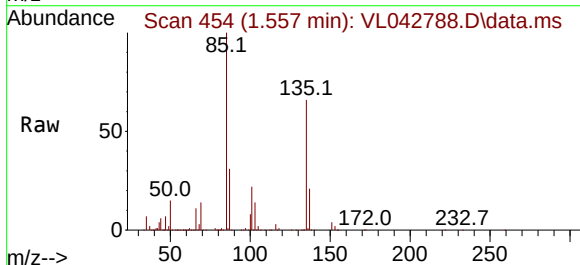
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

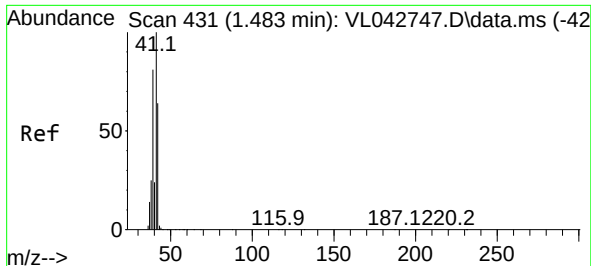
Tgt Ion: 64 Resp: 26081
Ion Ratio Lower Upper
64 100
66 31.5 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.571 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 85 Resp: 145116
Ion Ratio Lower Upper
85 100
135 64.7 50.6 76.0





#9

Propene

Concen: 10.882 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

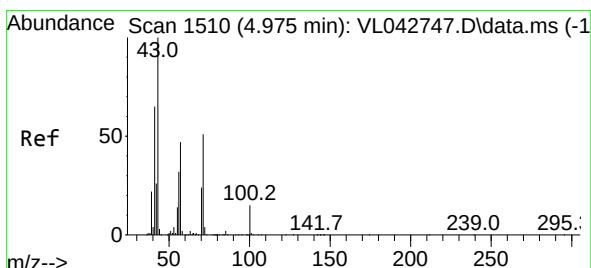
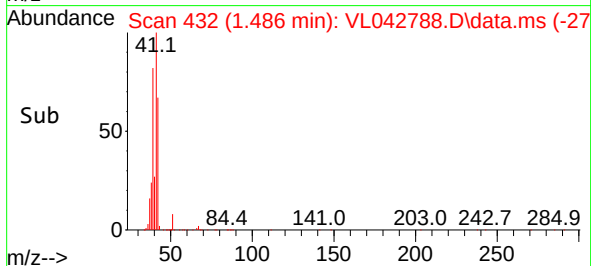
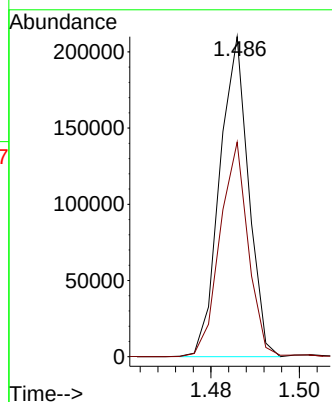
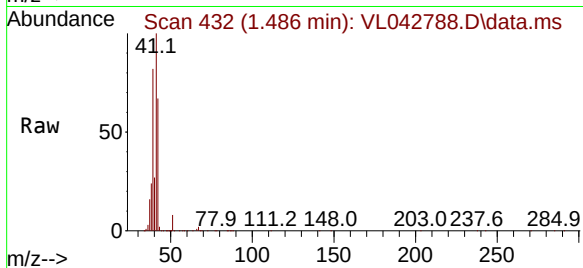
VSTDCCC010

Tgt Ion: 41 Resp: 94980

Ion Ratio Lower Upper

41 100

42 66.3 53.2 79.8



#10

Heptane

Concen: 10.950 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.016 min

Lab File: VL042788.D

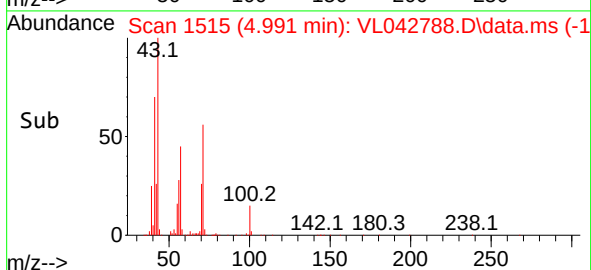
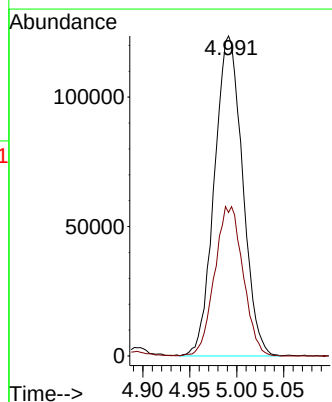
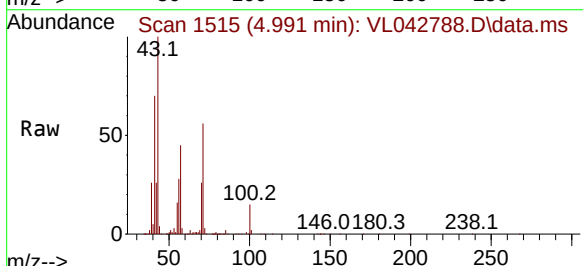
Acq: 31 Jul 2025 08:37

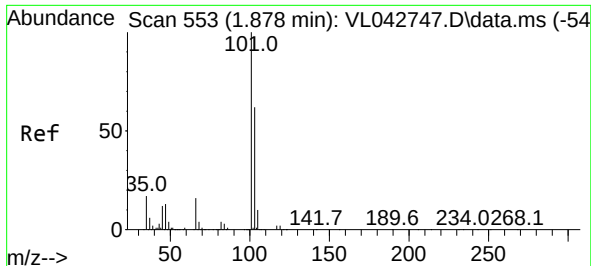
Tgt Ion: 43 Resp: 257717

Ion Ratio Lower Upper

43 100

57 47.3 39.9 59.9

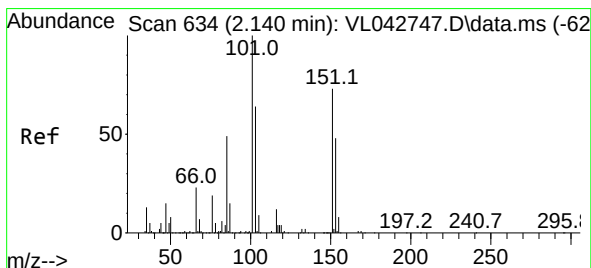
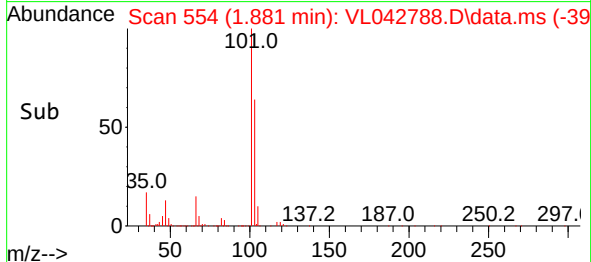
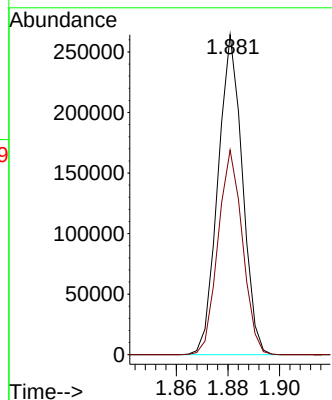
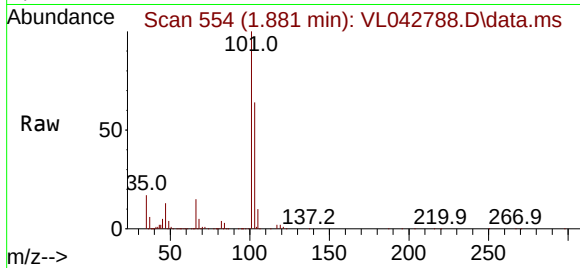




#11
Trichlorofluoromethane
Concen: 9.128 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

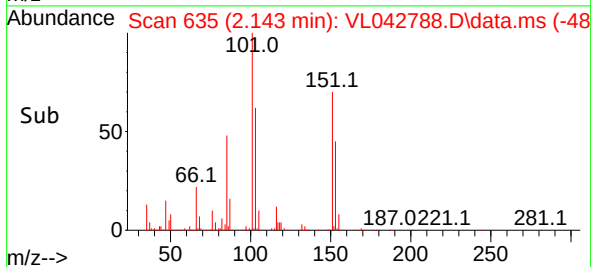
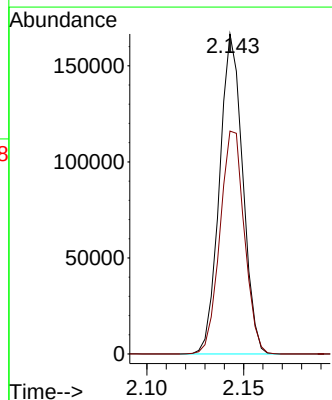
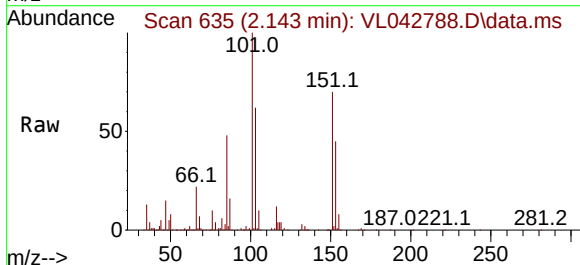
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

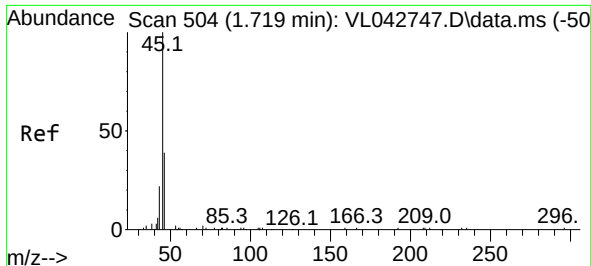
Tgt Ion:101 Resp: 173476
Ion Ratio Lower Upper
101 100
103 63.9 49.6 74.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.600 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:101 Resp: 138636
Ion Ratio Lower Upper
101 100
151 73.2 60.5 90.7

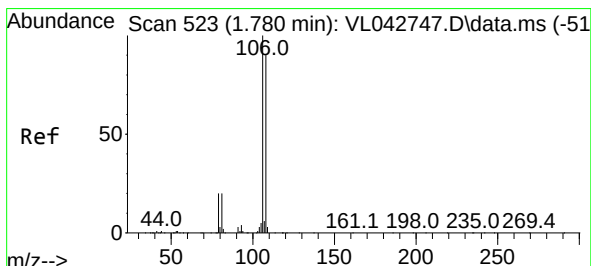
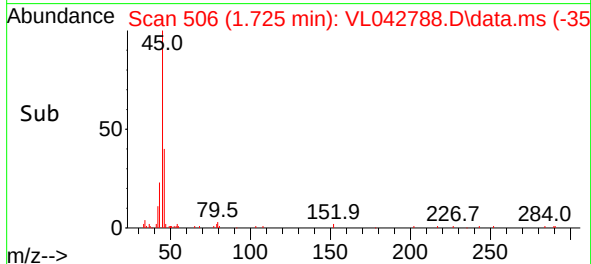
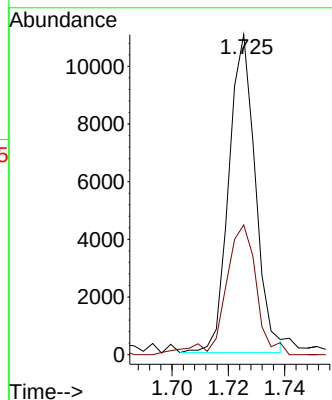
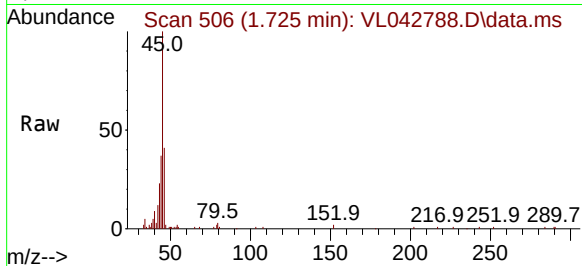




#13
Ethanol
Concen: 10.150 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

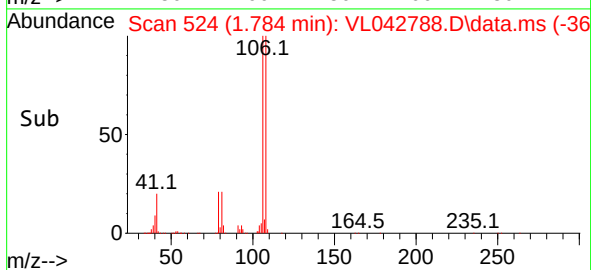
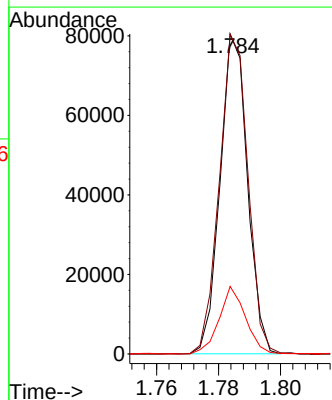
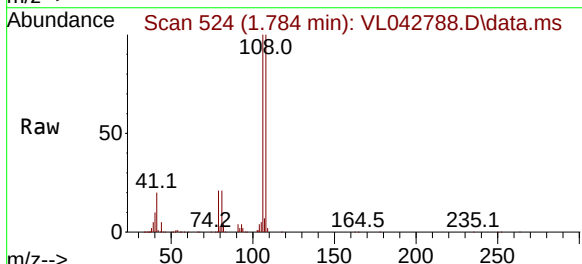
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

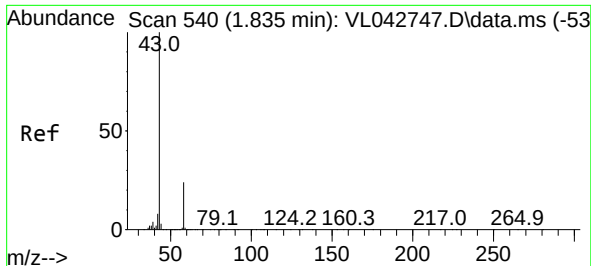
Tgt Ion: 45 Resp: 7183
Ion Ratio Lower Upper
45 100
46 47.6 17.8 71.4



#14
Bromoethene
Concen: 9.639 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 108 Resp: 49283
Ion Ratio Lower Upper
108 100
106 104.5 84.7 127.1
79 20.7 17.4 26.2

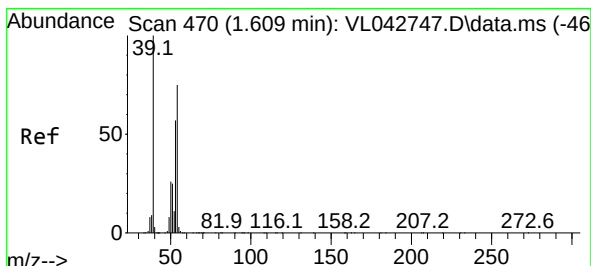
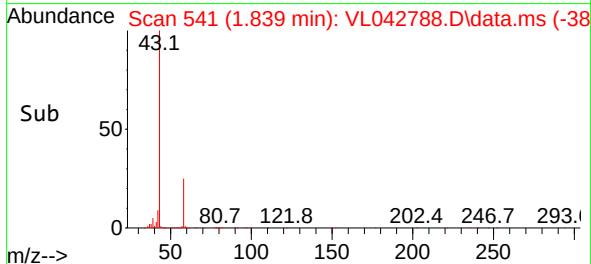
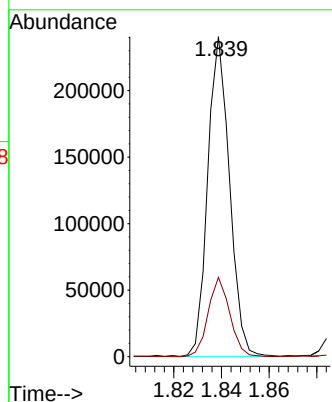
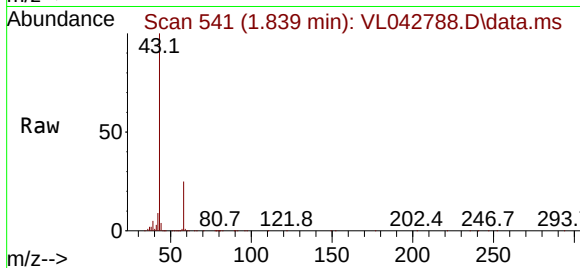




#15
Acetone
Concen: 7.924 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

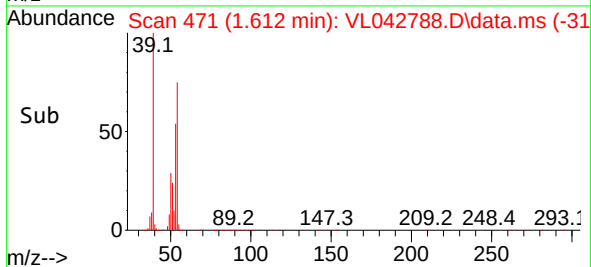
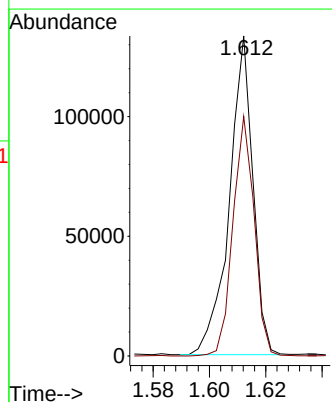
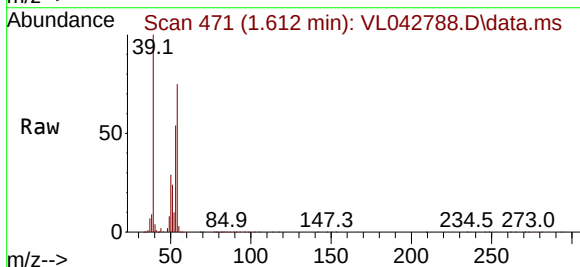
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

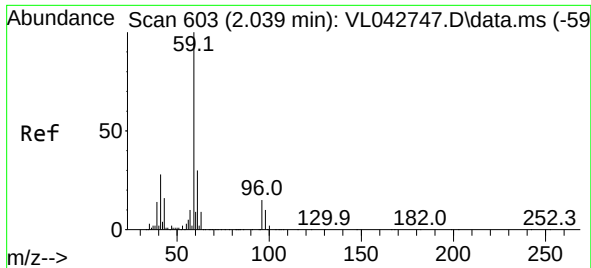
Tgt Ion: 43 Resp: 152576
Ion Ratio Lower Upper
43 100
58 24.9 19.8 29.8



#16
1,3-Butadiene
Concen: 9.425 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 39 Resp: 77405
Ion Ratio Lower Upper
39 100
54 67.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.237 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

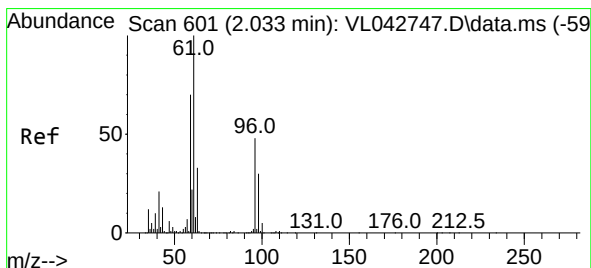
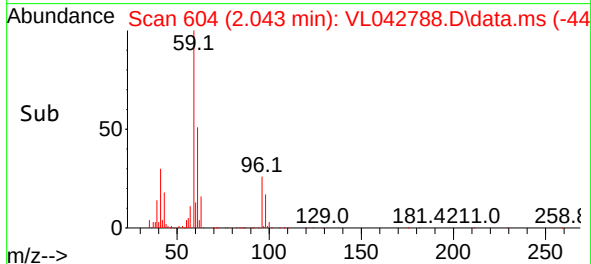
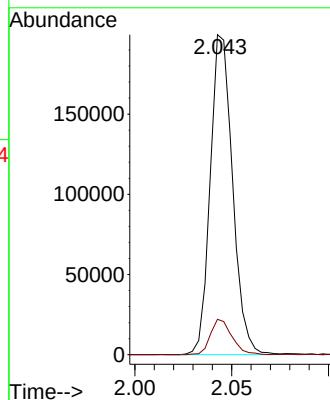
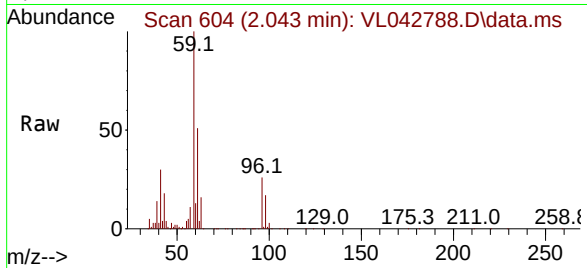
VSTDCCC010

Tgt Ion: 59 Resp: 160407

Ion Ratio Lower Upper

59 100

57 10.7 8.3 12.5



#18

1,1-Dichloroethene

Concen: 9.195 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

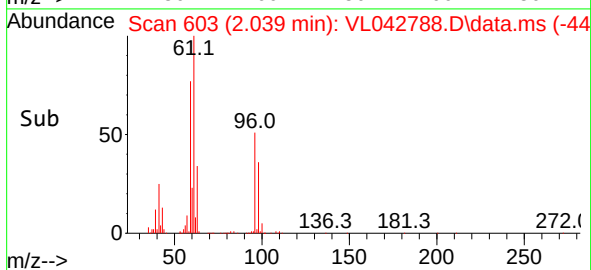
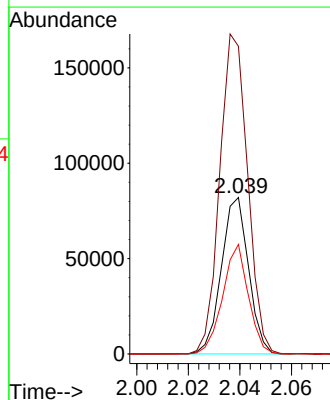
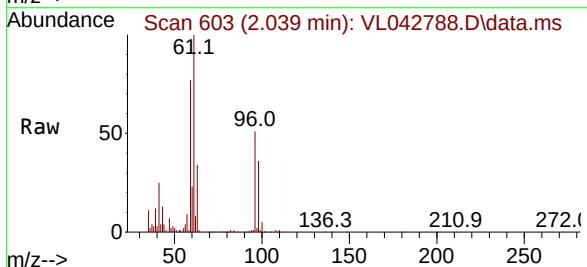
Tgt Ion: 96 Resp: 60001

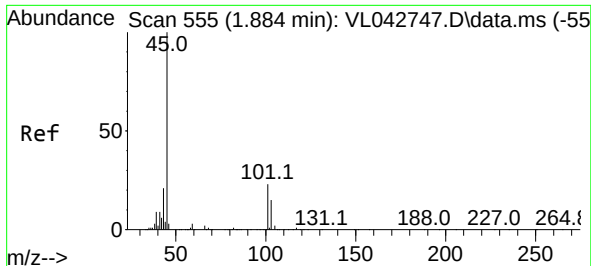
Ion Ratio Lower Upper

96 100

61 196.6 165.8 248.6

98 70.1 49.9 74.9

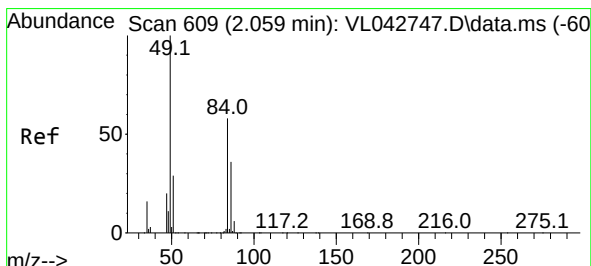
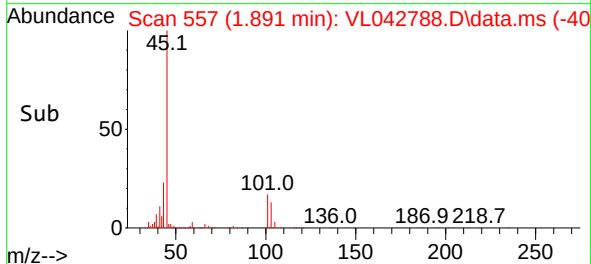
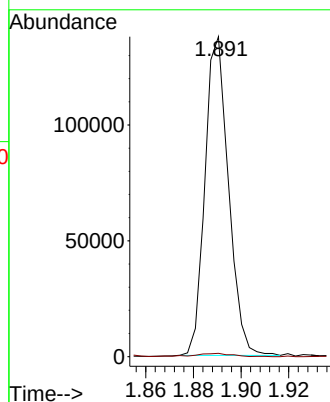
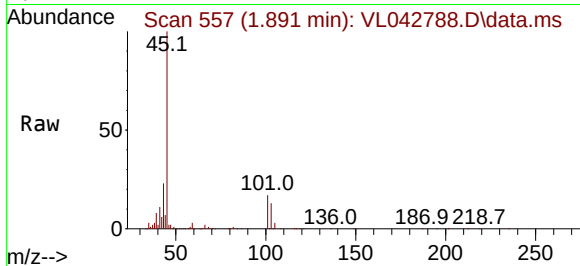




#19
Isopropyl Alcohol
Concen: 9.229 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

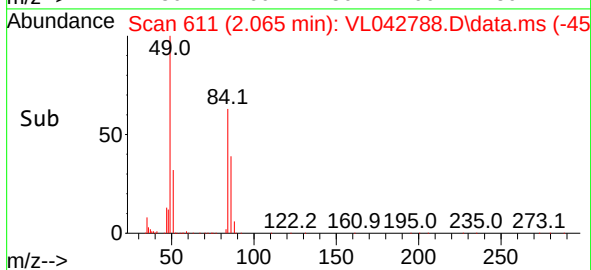
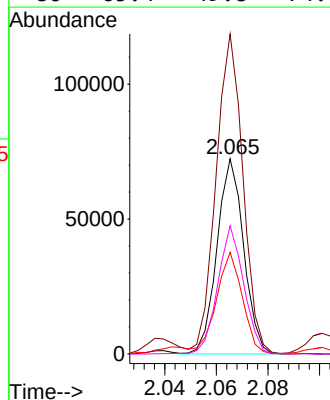
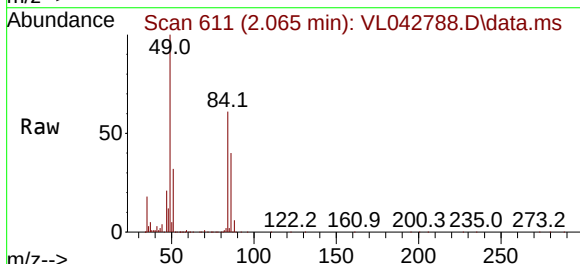
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

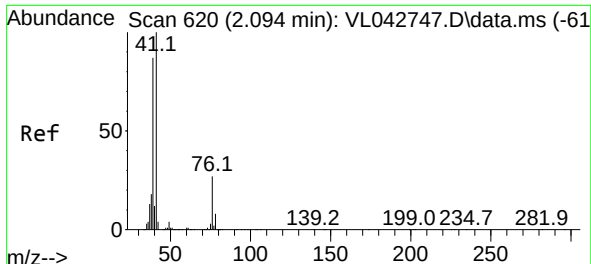
Tgt Ion: 45 Resp: 94435
Ion Ratio Lower Upper
45 100
58 40.2 30.0 45.0



#20
Methylene Chloride
Concen: 8.566 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 84 Resp: 51973
Ion Ratio Lower Upper
84 100
49 163.4 138.6 208.0
51 51.9 40.6 61.0
86 65.4 49.8 74.8





#21

Allyl Chloride

Concen: 9.930 ppbv

RT: 2.101 min Scan# 61

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

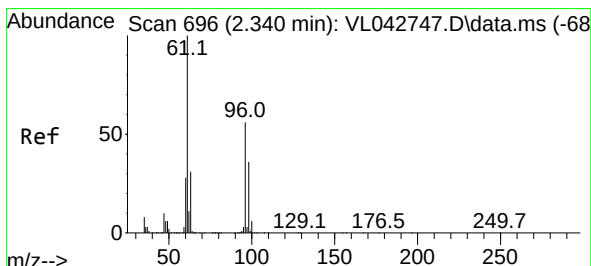
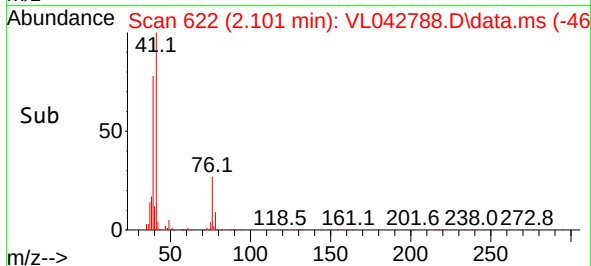
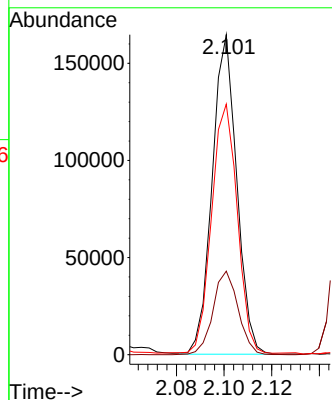
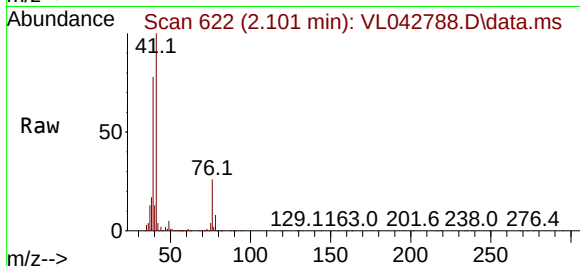
Tgt Ion: 41 Resp: 117837

Ion Ratio Lower Upper

41 100

76 26.7 21.1 31.7

39 82.2 68.3 102.5



#22

trans-1,2-Dichloroethene

Concen: 9.614 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

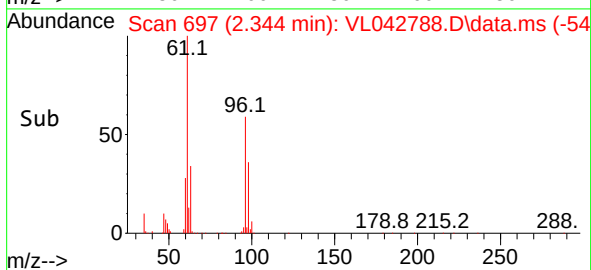
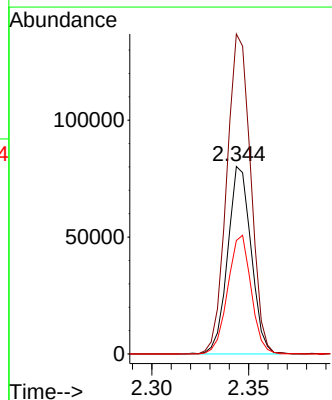
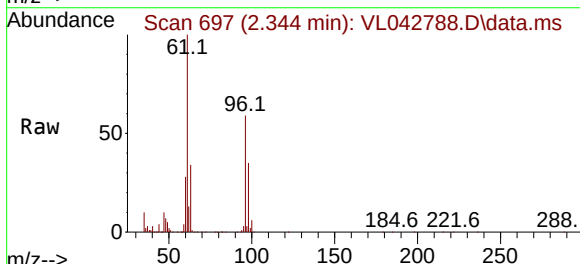
Tgt Ion: 96 Resp: 67488

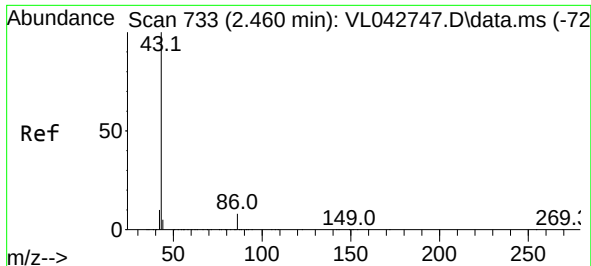
Ion Ratio Lower Upper

96 100

61 170.6 142.3 213.5

98 60.5 50.6 76.0

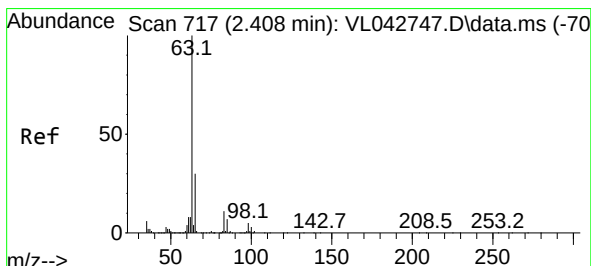
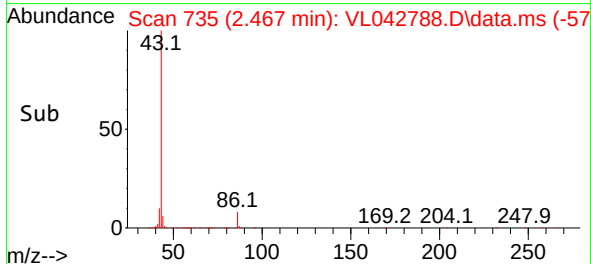
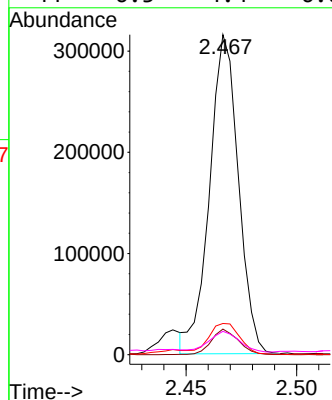
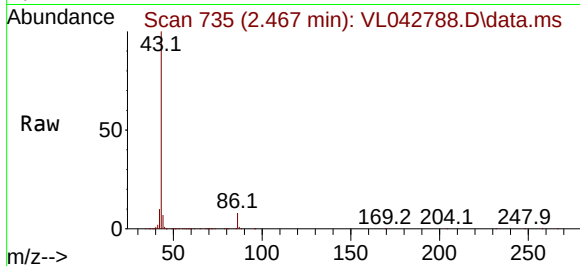




#23
 Vinyl Acetate
 Concen: 12.247 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

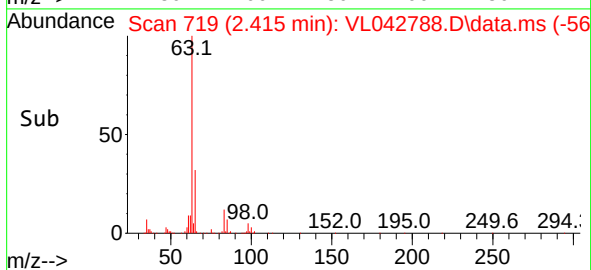
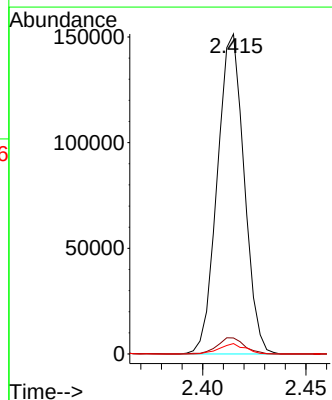
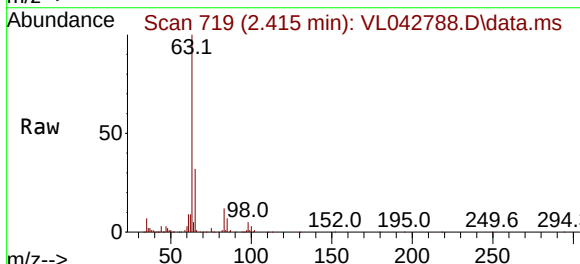
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

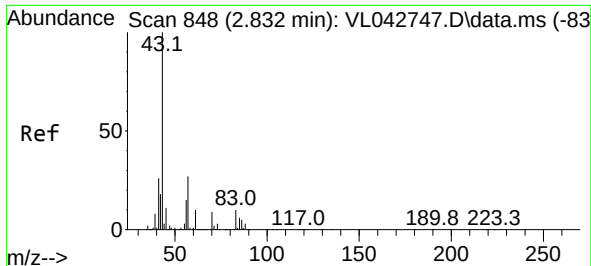
Tgt Ion:	43	Resp:	285868
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	9.6	7.8	11.8
44	6.3	4.4	6.6



#24
 1,1-Dichloroethane
 Concen: 9.496 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion:	63	Resp:	136815
Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.5	7.4
100	3.3	1.6	4.8

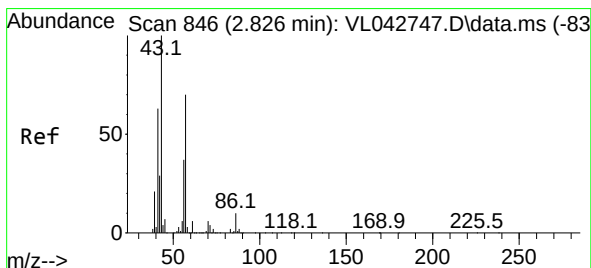
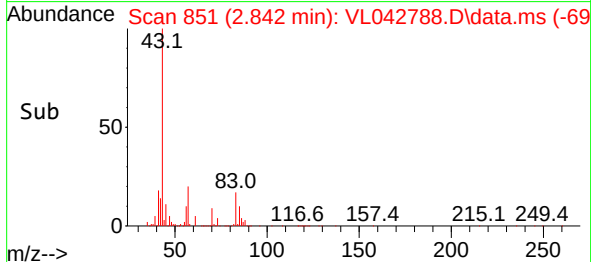
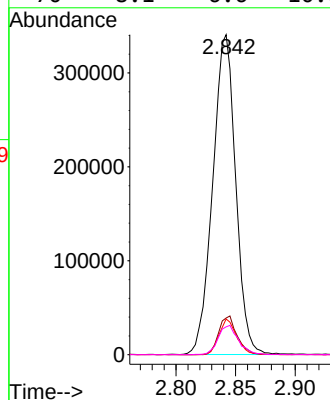
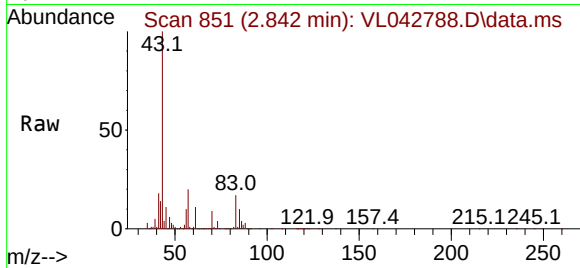




#25
Ethyl Acetate
Concen: 10.702 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

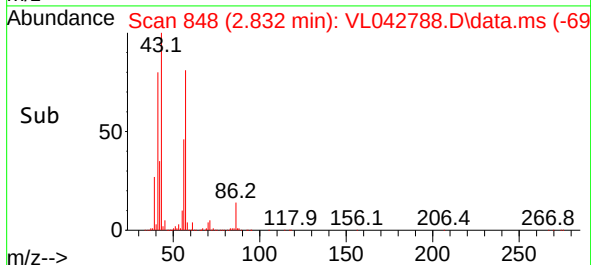
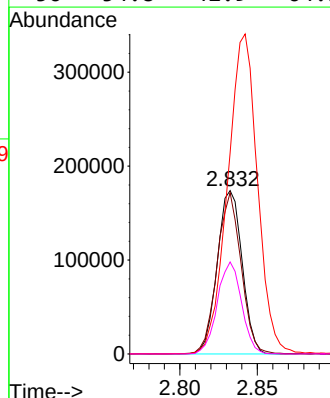
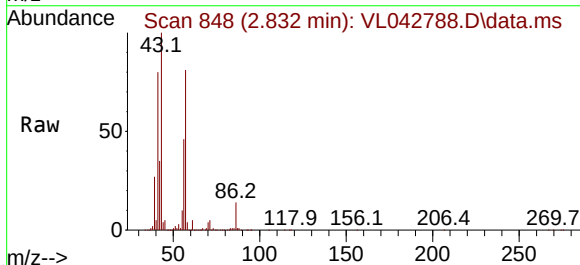
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

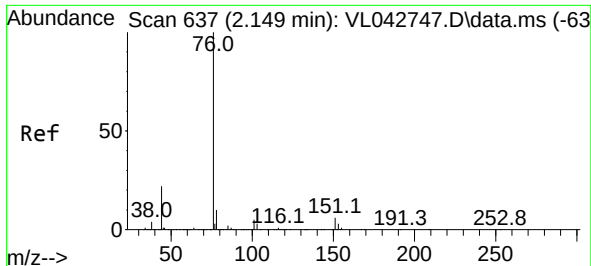
Tgt Ion: 43	Resp: 456109
Ion Ratio	Lower Upper
43 100	
45 9.8	7.8 11.6
61 8.7	6.7 10.1
70 8.1	6.6 10.0



#26
Hexane
Concen: 10.399 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 57	Resp: 194417
Ion Ratio	Lower Upper
57 100	
41 95.9	75.4 113.2
43 235.7	185.0 277.6
56 54.8	42.9 64.3

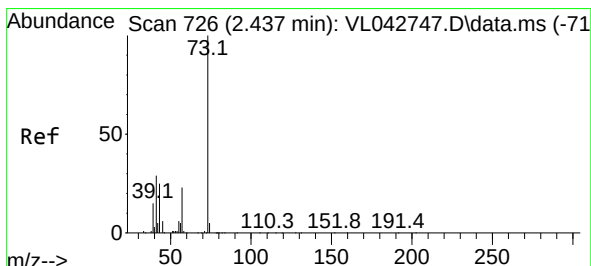
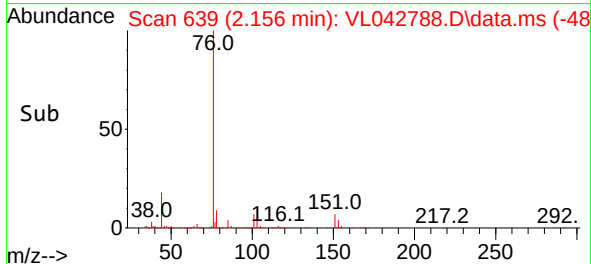
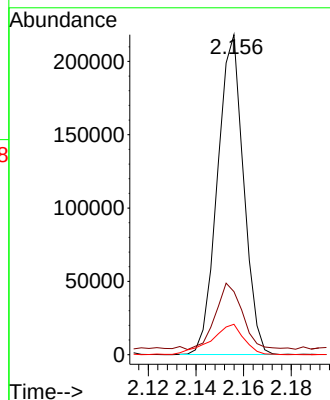
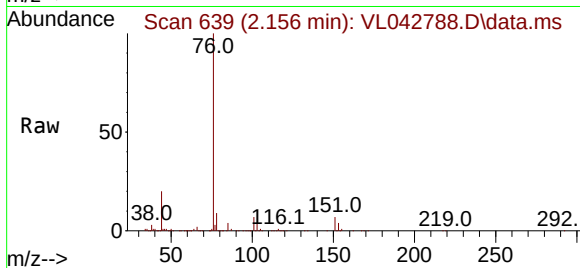




#27
Carbon Disulfide
Concen: 10.356 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

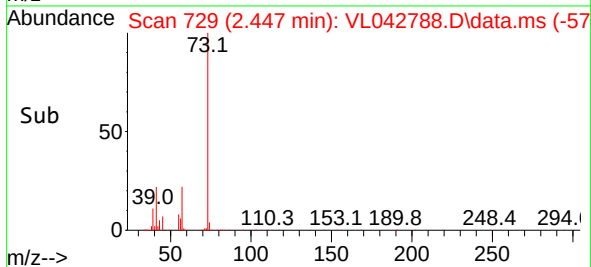
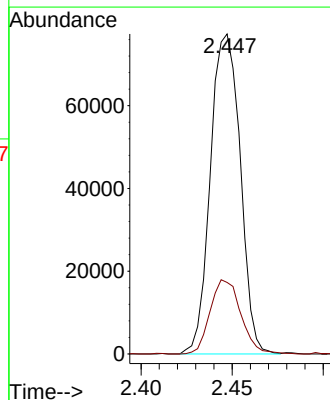
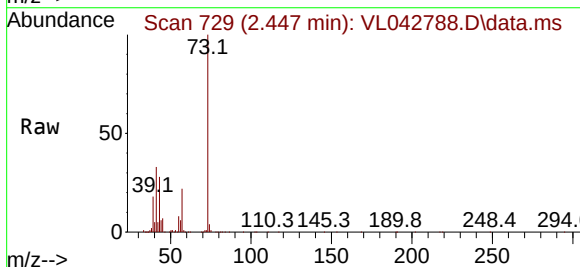
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

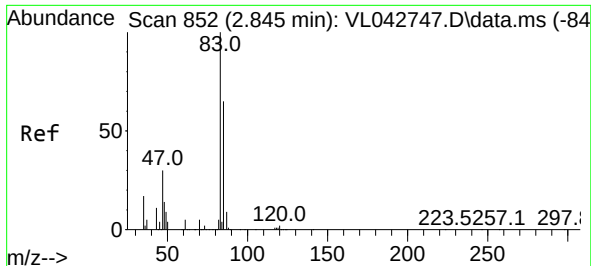
Tgt Ion: 76 Resp: 165760
Ion Ratio Lower Upper
76 100
44 21.5 19.3 28.9
78 12.1 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 9.982 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 73 Resp: 88166
Ion Ratio Lower Upper
73 100
57 23.9 19.8 29.8

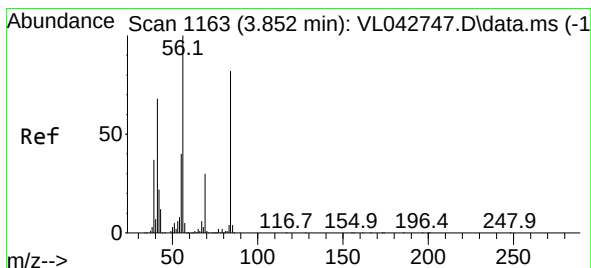
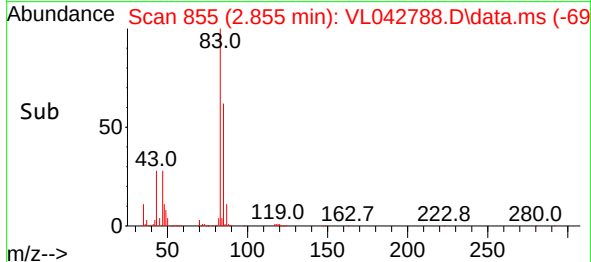
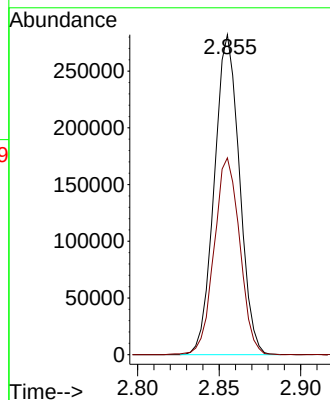
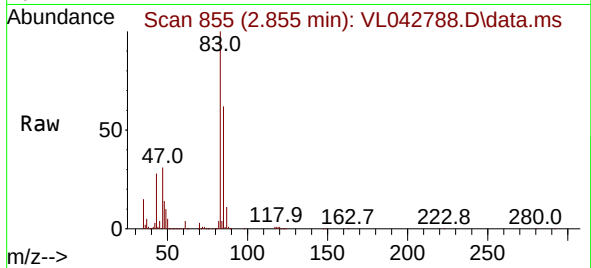




#29
Chloroform
Concen: 10.451 ppbv
RT: 2.855 min Scan# 852
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

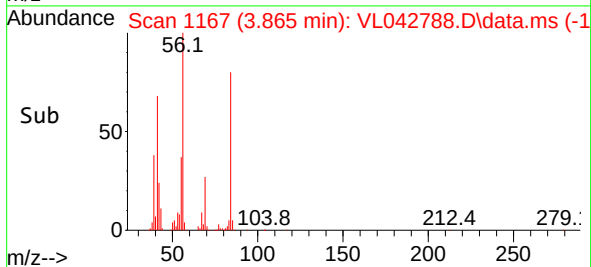
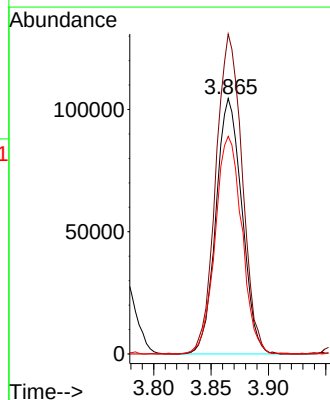
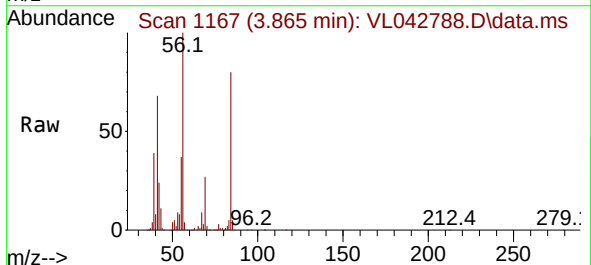
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

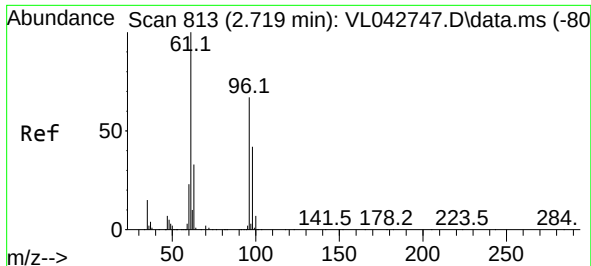
Tgt Ion: 83 Resp: 301928
Ion Ratio Lower Upper
83 100
85 61.5 52.2 78.2



#30
Cyclohexane
Concen: 10.398 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 84 Resp: 164864
Ion Ratio Lower Upper
84 100
56 126.6 97.5 146.3
41 87.2 67.2 100.8

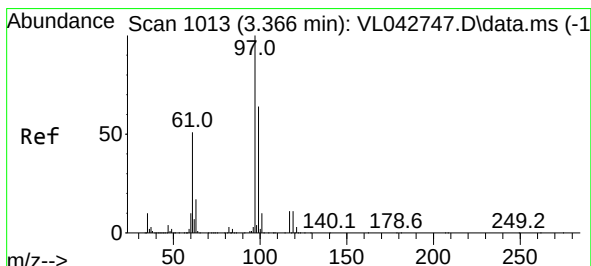
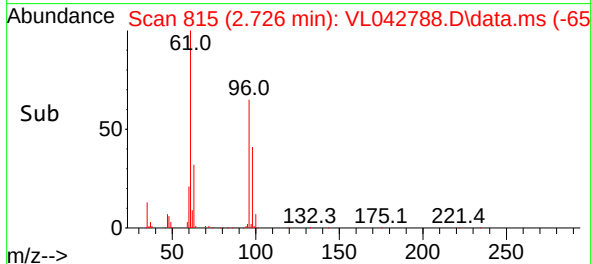
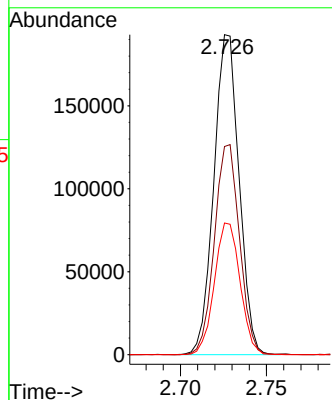
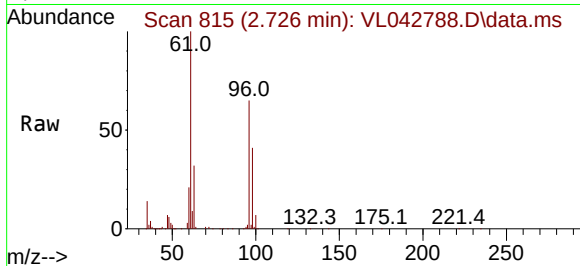




#31
 cis-1,2-Dichloroethene
 Concen: 10.250 ppbv
 RT: 2.726 min Scan# 813
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

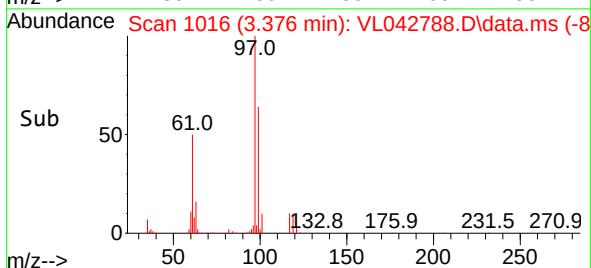
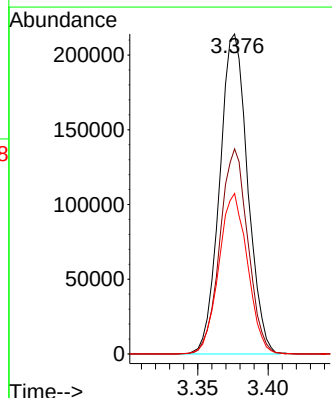
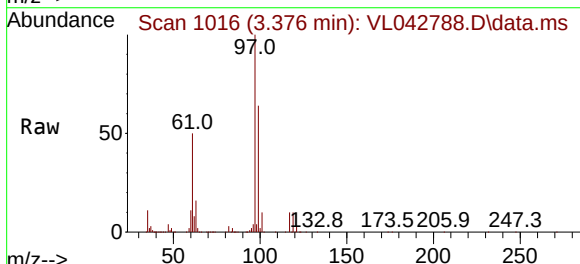
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

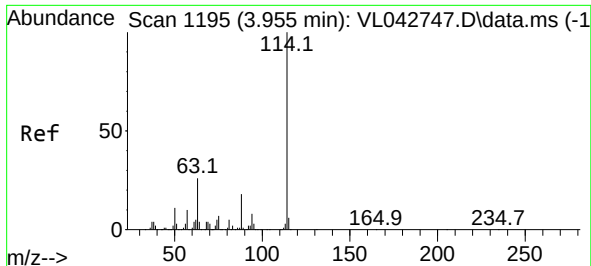
Tgt Ion: 61 Resp: 196928
 Ion Ratio Lower Upper
 61 100
 96 64.9 53.5 80.3
 98 41.2 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.850 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 97 Resp: 296432
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 51.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

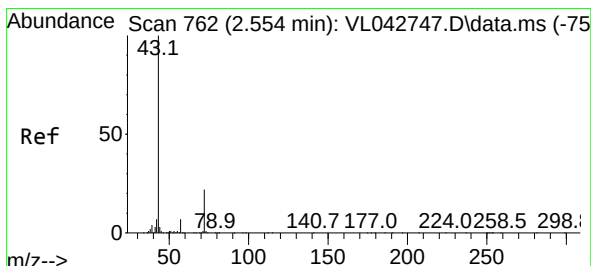
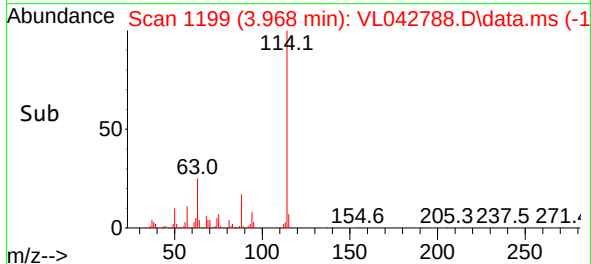
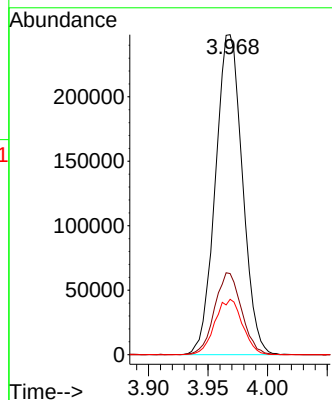
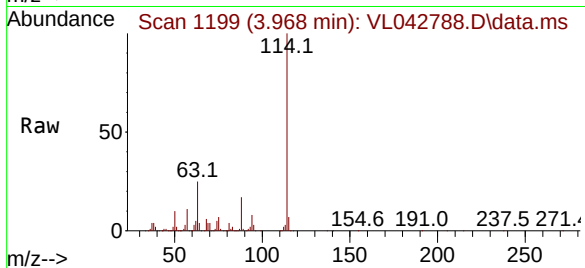
Tgt Ion:114 Resp: 391811

Ion Ratio Lower Upper

114 100

63 25.6 20.5 30.7

88 17.6 14.0 21.0



#34

2-Butanone

Concen: 10.726 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.007 min

Lab File: VL042788.D

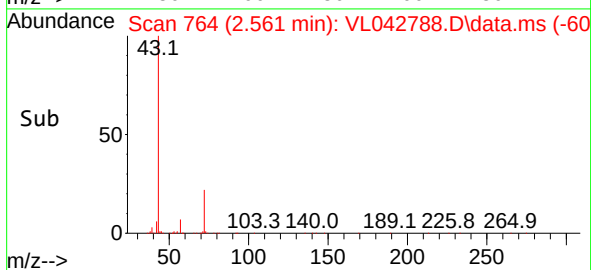
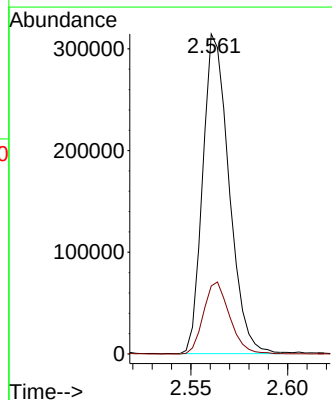
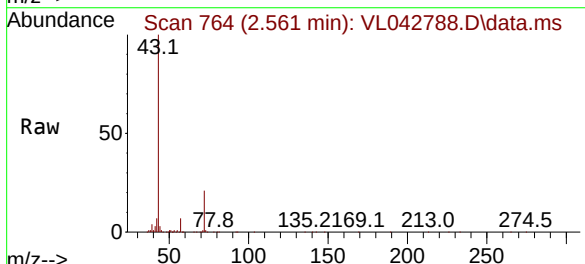
Acq: 31 Jul 2025 08:37

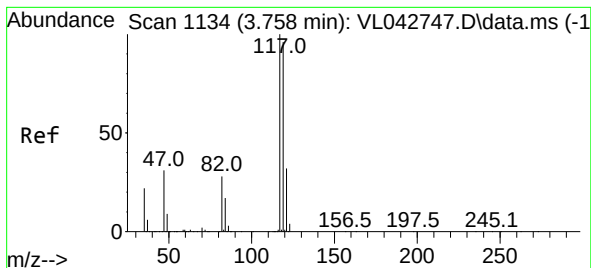
Tgt Ion: 43 Resp: 297678

Ion Ratio Lower Upper

43 100

72 22.4 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.672 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

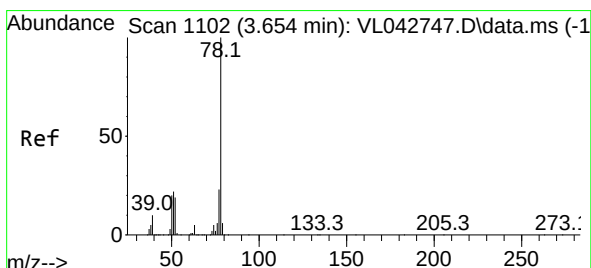
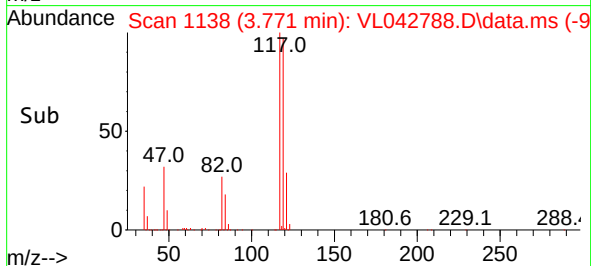
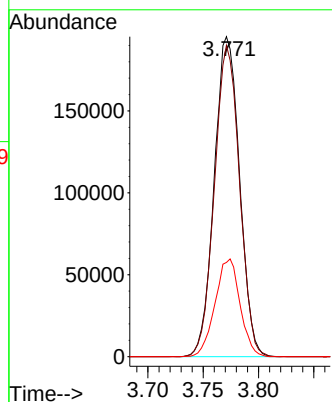
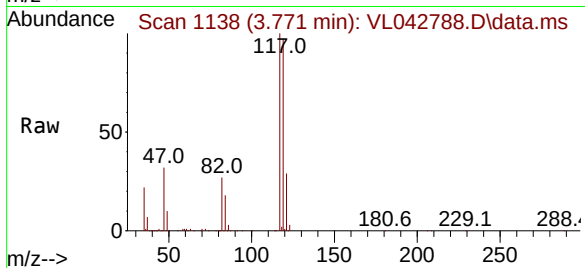
Tgt Ion:117 Resp: 310581

Ion Ratio Lower Upper

117 100

119 97.3 77.1 115.7

121 29.5 25.5 38.3



#36

Benzene

Concen: 10.548 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

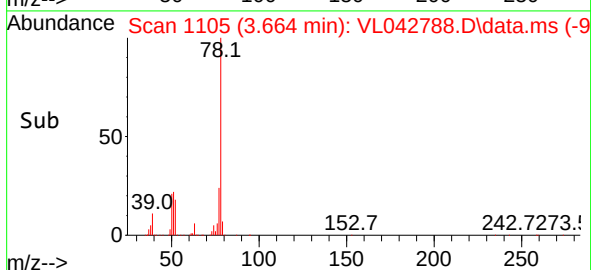
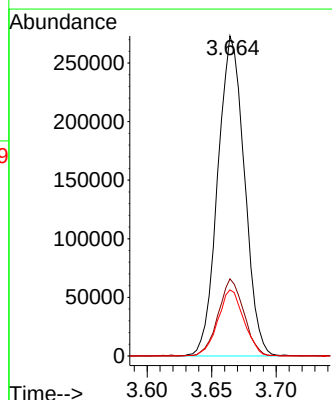
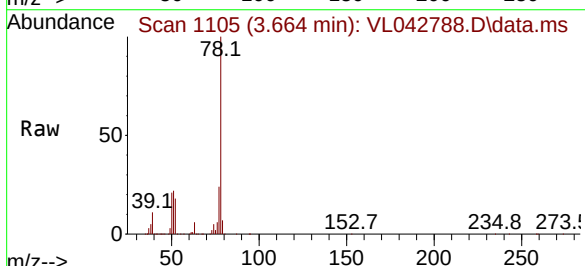
Tgt Ion: 78 Resp: 391679

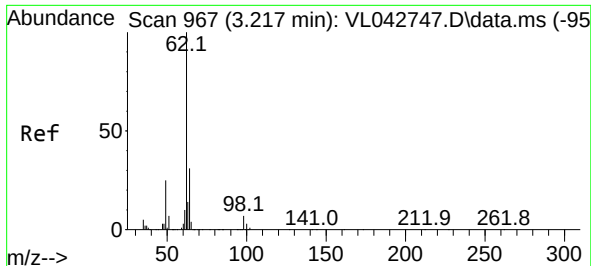
Ion Ratio Lower Upper

78 100

77 24.0 18.5 27.7

50 20.6 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.592 ppbv

RT: 3.227 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

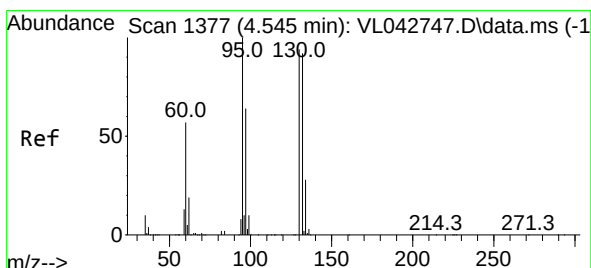
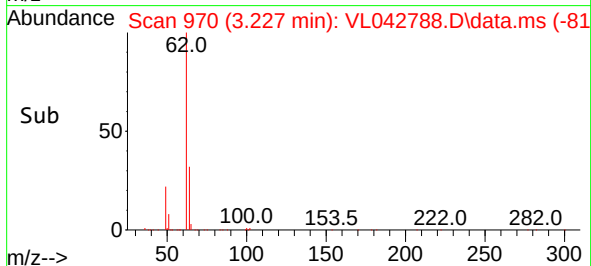
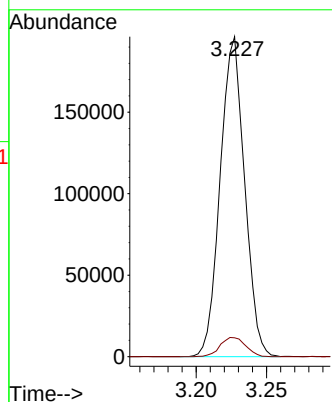
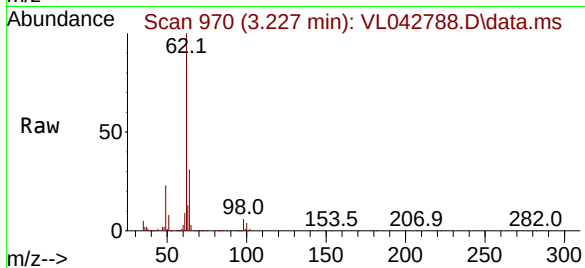
VSTDCCC010

Tgt Ion: 62 Resp: 236929

Ion Ratio Lower Upper

62 100

98 6.3 5.2 7.8



#38

Trichloroethene

Concen: 9.991 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:130 Resp: 178226

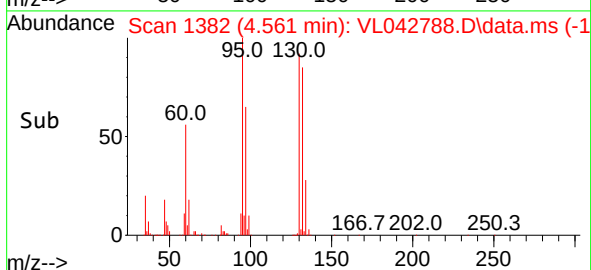
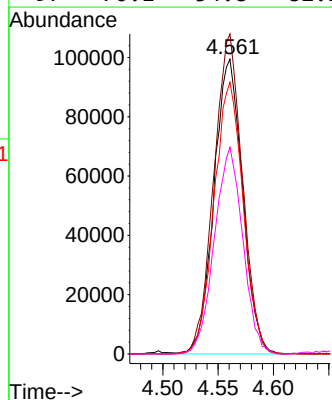
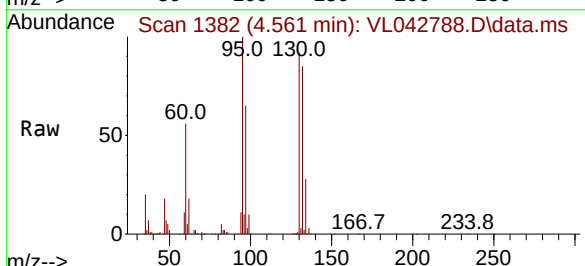
Ion Ratio Lower Upper

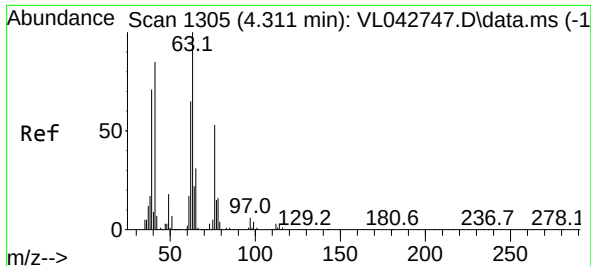
130 100

95 108.2 85.4 128.2

132 92.1 78.2 117.2

97 70.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.505 ppbv

RT: 4.324 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

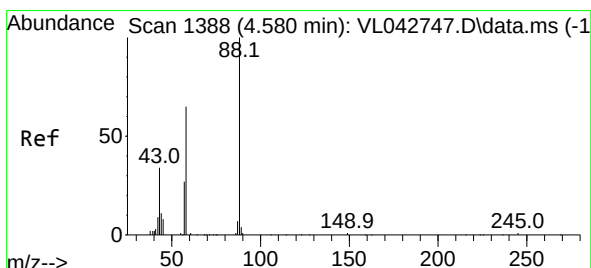
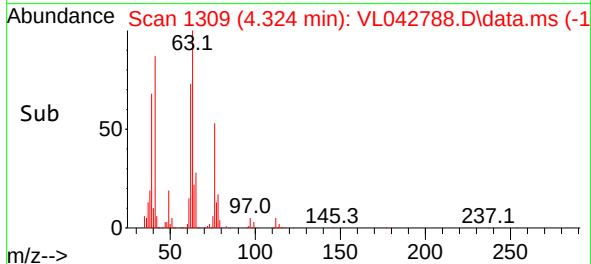
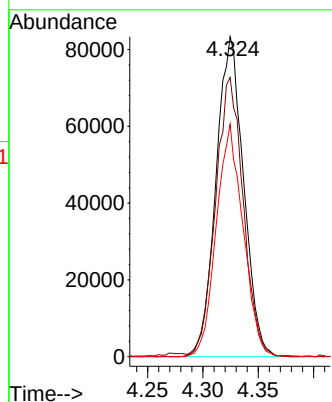
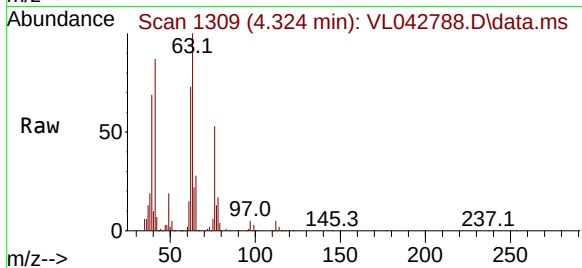
Tgt Ion: 63 Resp: 143986

Ion Ratio Lower Upper

63 100

41 87.0 68.2 102.4

62 72.7 52.0 78.0



#40

1,4-Dioxane

Concen: 10.049 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 88 Resp: 64201

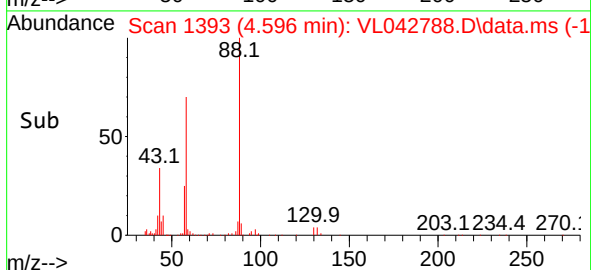
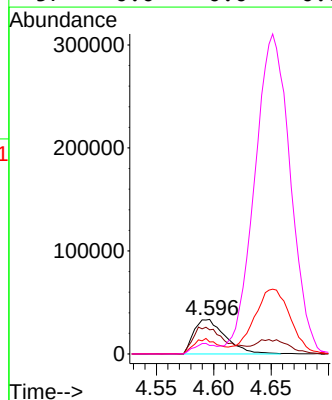
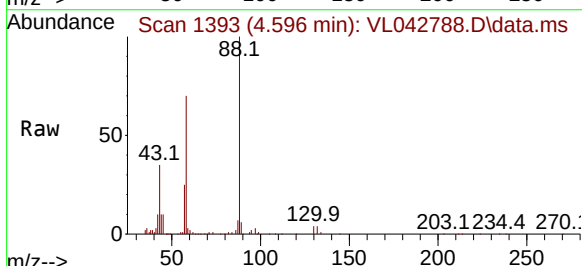
Ion Ratio Lower Upper

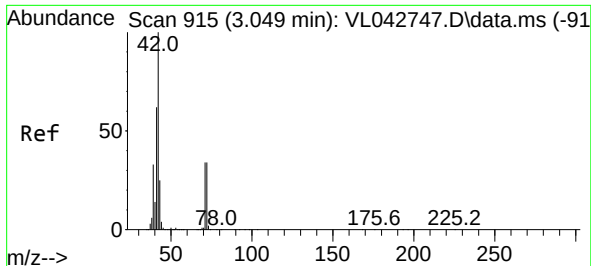
88 100

58 79.6 58.8 88.2

43 33.4 28.9 43.3

57 0.0 0.0 0.0

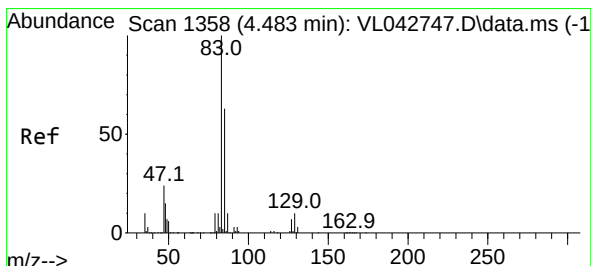
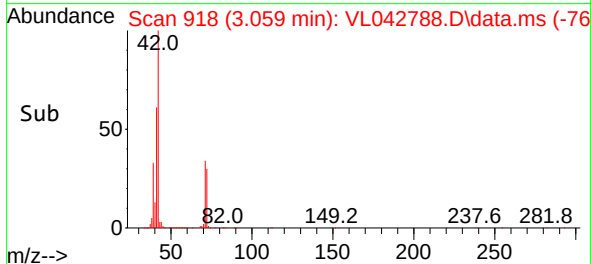
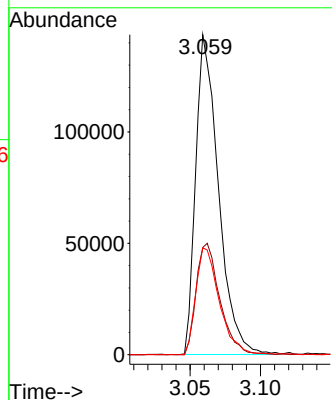
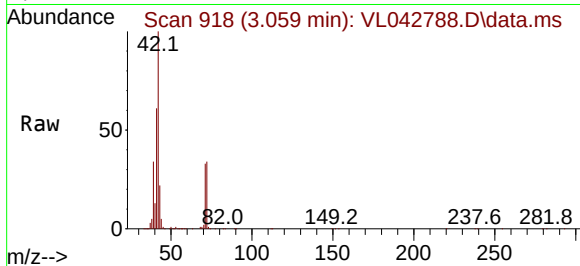




#41
Tetrahydrofuran
Concen: 11.447 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

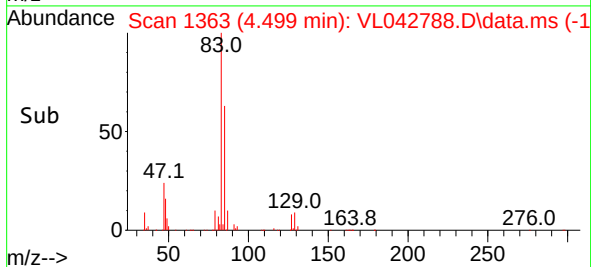
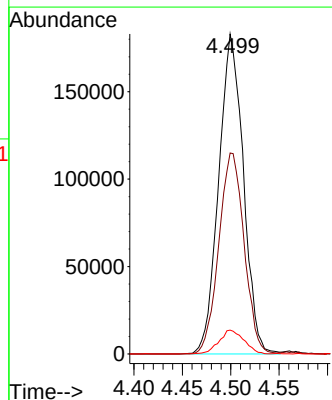
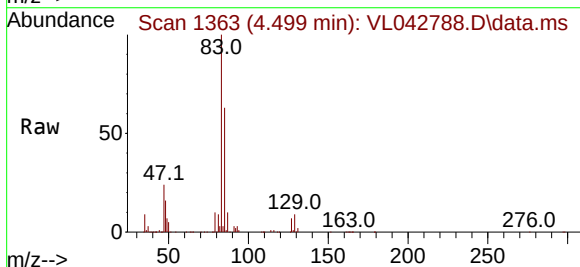
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

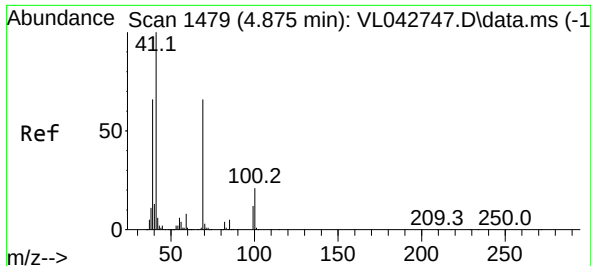
Tgt Ion: 42 Resp: 161670
Ion Ratio Lower Upper
42 100
72 36.3 30.9 46.3
71 34.9 28.6 43.0



#42
Bromodichloromethane
Concen: 11.125 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 83 Resp: 324091
Ion Ratio Lower Upper
83 100
85 62.8 50.2 75.4
127 7.5 5.4 8.2

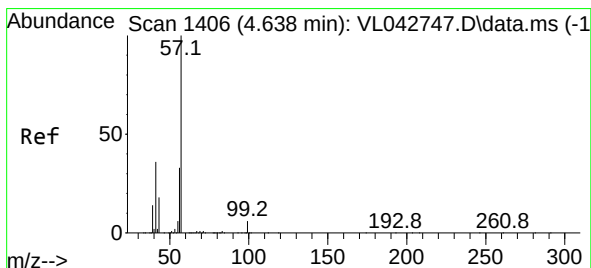
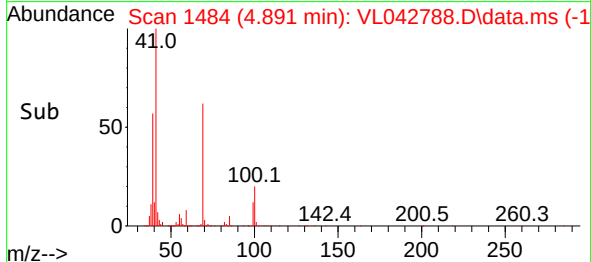
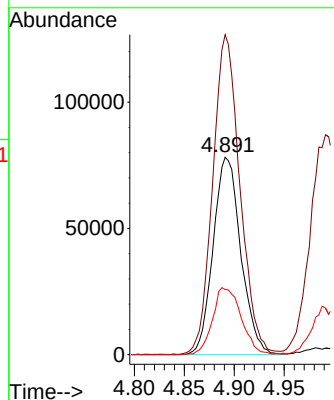
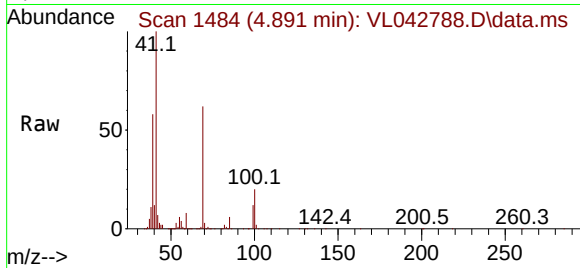




#43
Methyl Methacrylate
Concen: 11.418 ppbv
RT: 4.891 min Scan# 1479
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

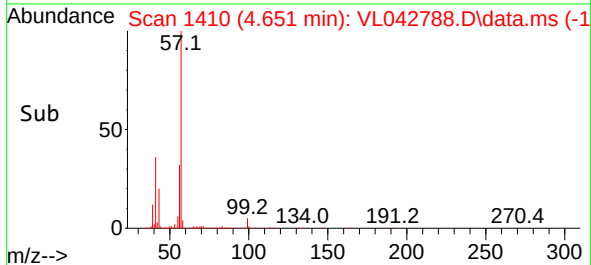
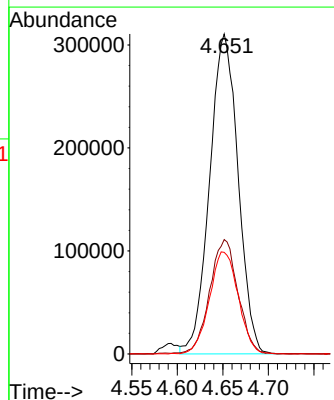
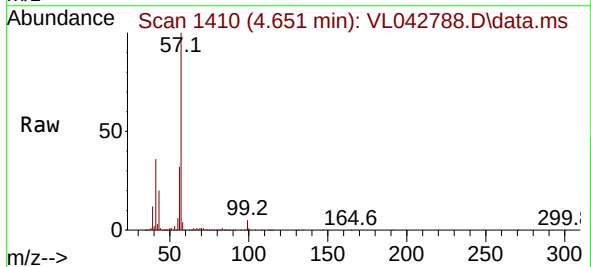
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

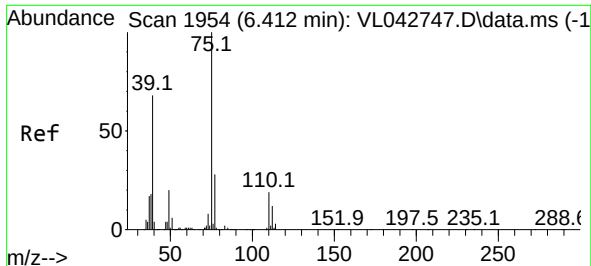
Tgt Ion: 69 Resp: 150704
Ion Ratio Lower Upper
69 100
41 159.5 125.7 188.5
100 35.3 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 11.142 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 57 Resp: 674333
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.4 25.8 38.6

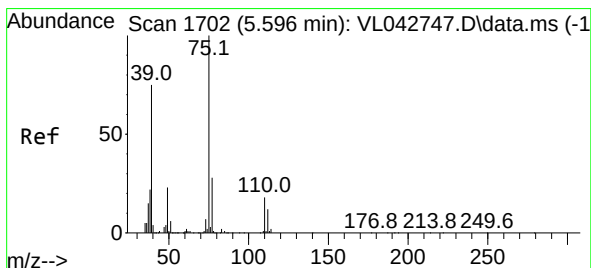
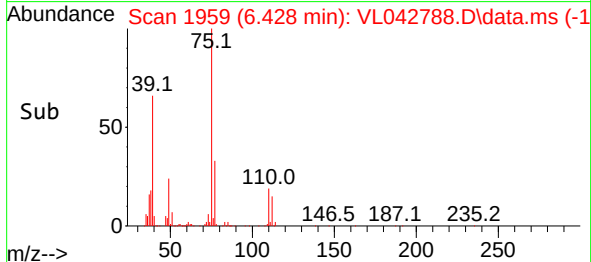
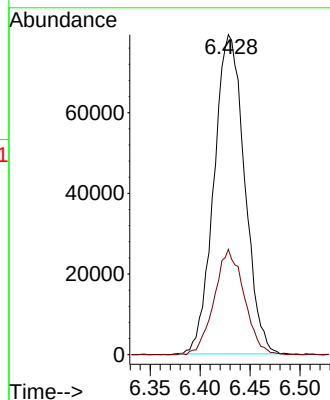
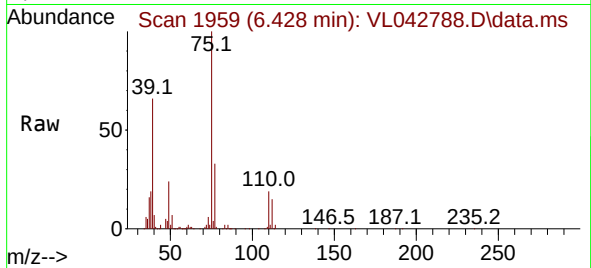




#45
 t-1,3-Dichloropropene
 Concen: 11.393 ppbv
 RT: 6.428 min Scan# 1954
 Delta R.T. 0.016 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

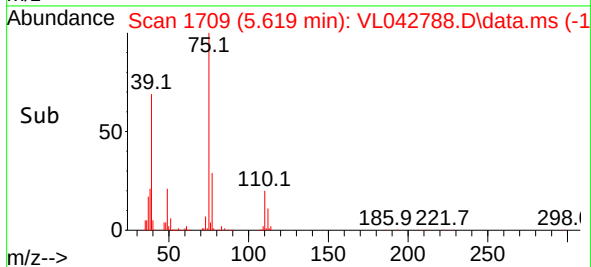
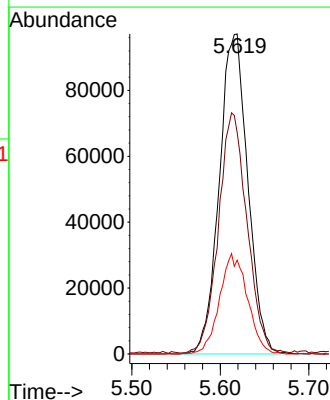
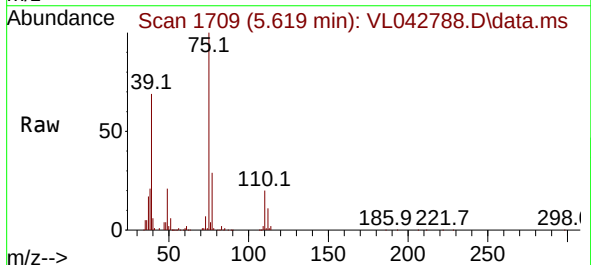
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

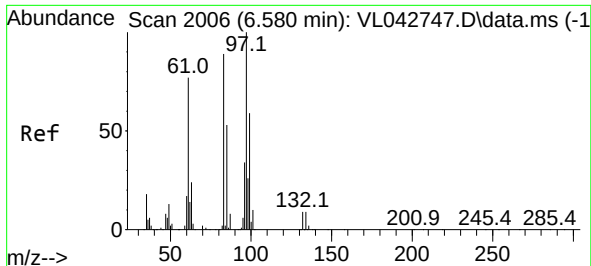
Tgt Ion: 75 Resp: 168632
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 11.589 ppbv
 RT: 5.619 min Scan# 1709
 Delta R.T. 0.023 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 75 Resp: 217364
 Ion Ratio Lower Upper
 75 100
 39 68.9 60.2 90.2
 77 29.3 22.6 34.0



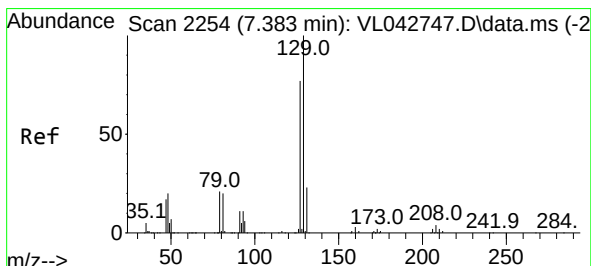
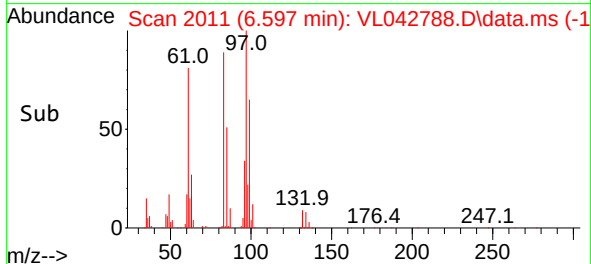
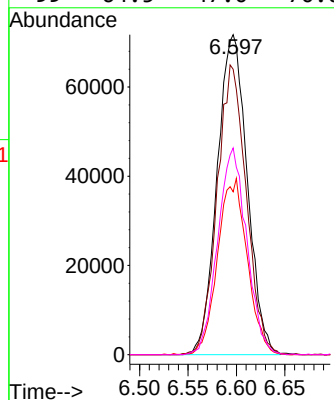
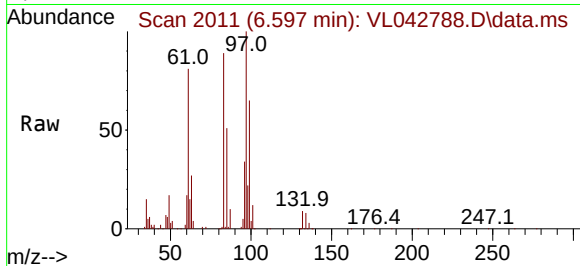


#47
1,1,2-Trichloroethane
Concen: 10.618 ppbv
RT: 6.597 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 155145

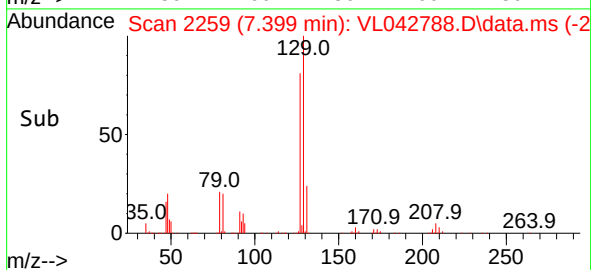
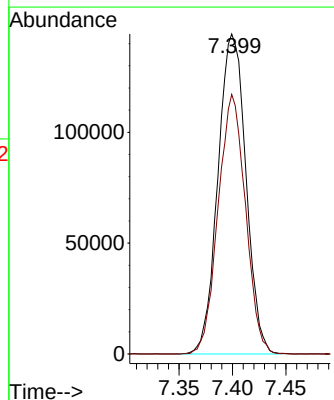
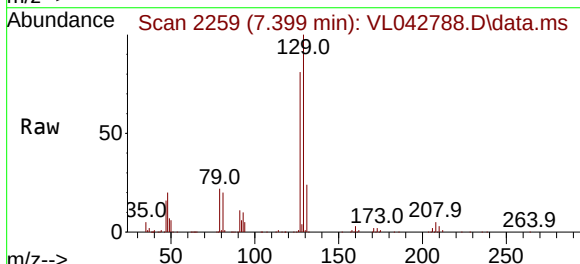
Ion	Ratio	Lower	Upper
97	100		
83	89.2	71.1	106.7
85	50.8	43.0	64.4
99	64.5	47.0	70.6

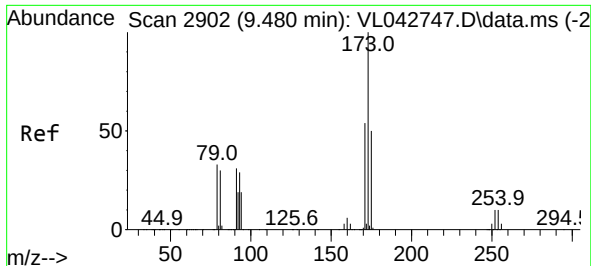


#48
Dibromochloromethane
Concen: 11.346 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 129 Resp: 263177

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.7	116.1





#49

Bromoform

Concen: 11.551 ppbv

RT: 9.493 min Scan# 2906

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

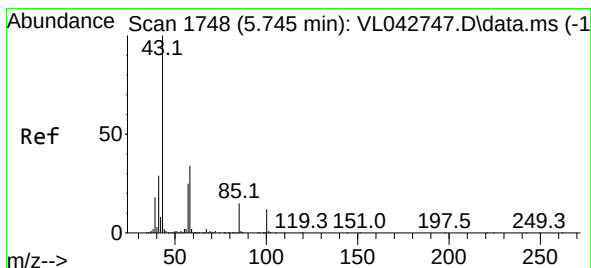
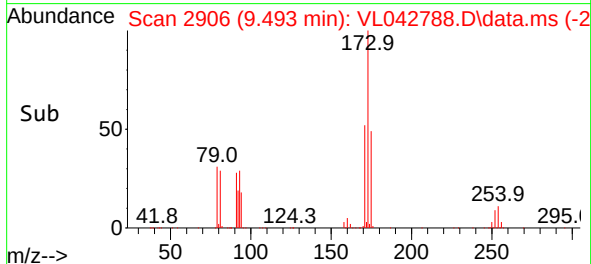
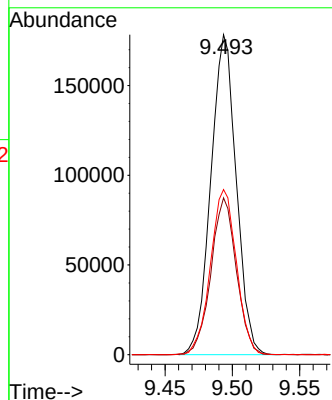
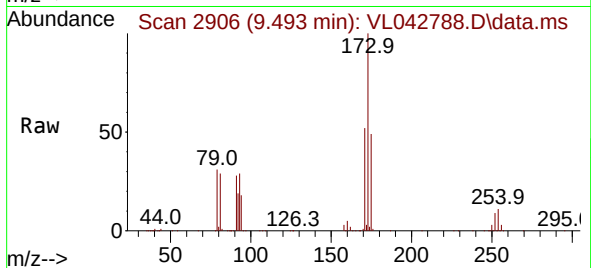
Tgt Ion:173 Resp: 233626

Ion Ratio Lower Upper

173 100

175 49.1 38.4 57.6

171 52.8 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 11.101 ppbv

RT: 5.765 min Scan# 1754

Delta R.T. 0.019 min

Lab File: VL042788.D

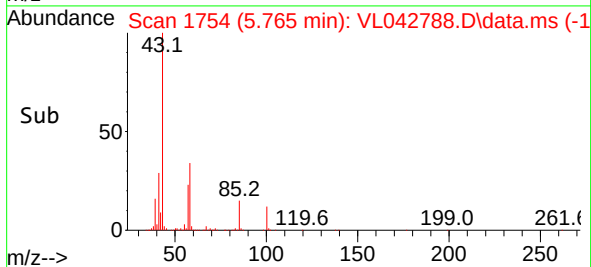
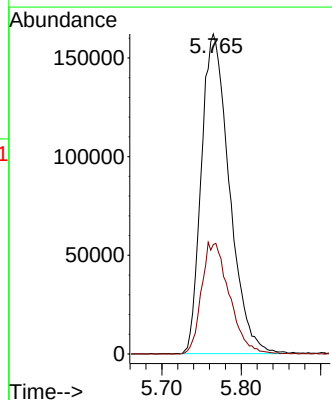
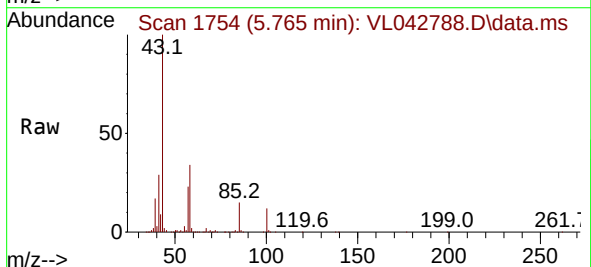
Acq: 31 Jul 2025 08:37

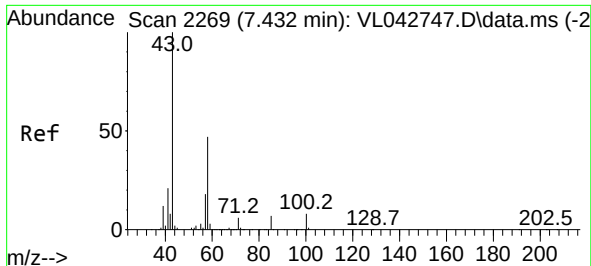
Tgt Ion: 43 Resp: 396864

Ion Ratio Lower Upper

43 100

58 34.7 27.8 41.8

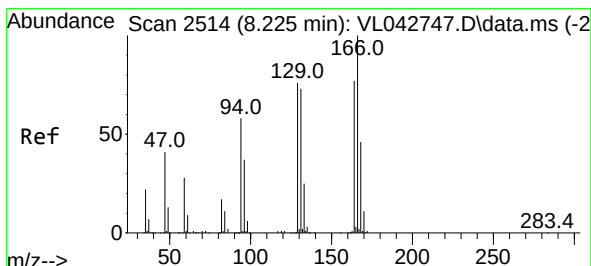
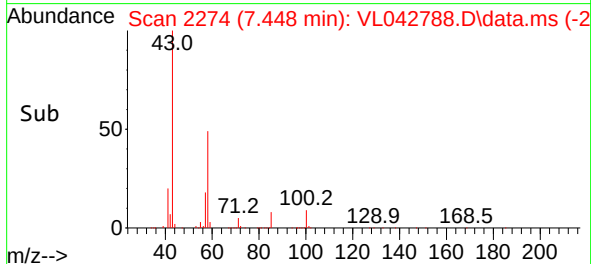
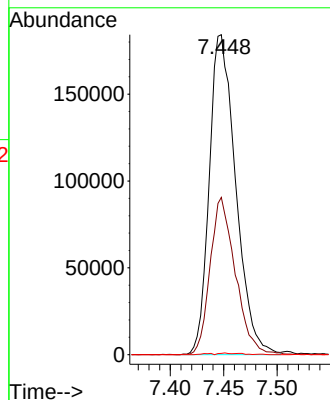
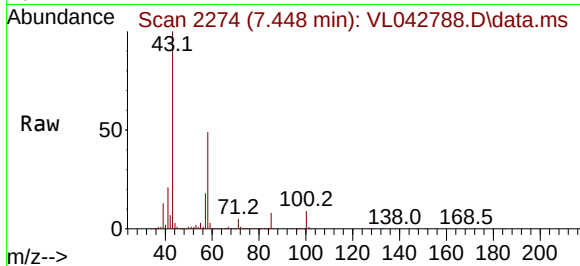




#51
2-Hexanone
Concen: 11.778 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

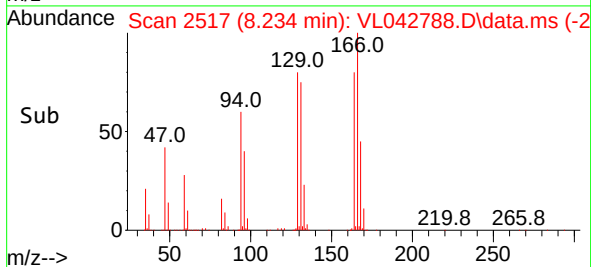
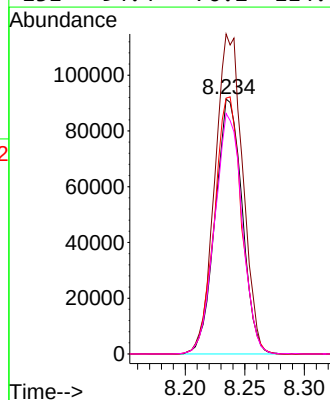
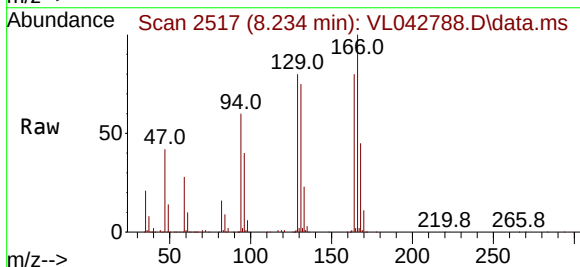
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

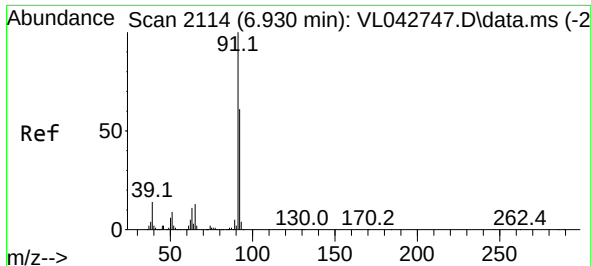
Tgt Ion: 43 Resp: 318210
Ion Ratio Lower Upper
43 100
58 46.9 38.0 57.0
98 0.6 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.319 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:164 Resp: 143437
Ion Ratio Lower Upper
164 100
166 125.6 104.0 156.0
129 100.3 79.2 118.8
131 94.4 76.2 114.4

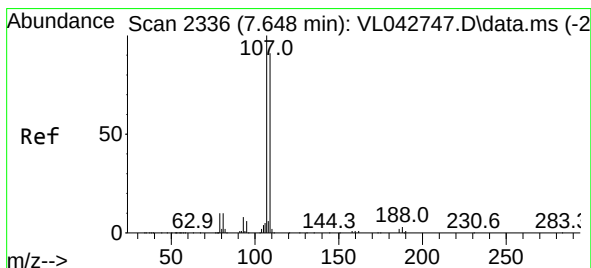
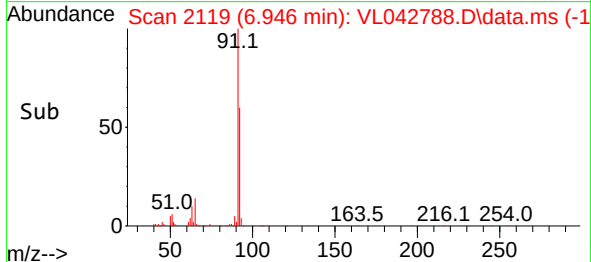
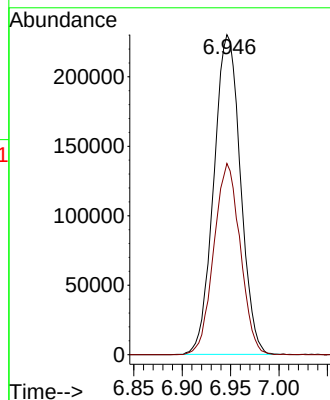
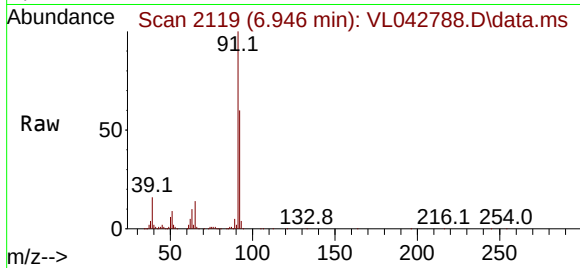




#53
Toluene
Concen: 11.044 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

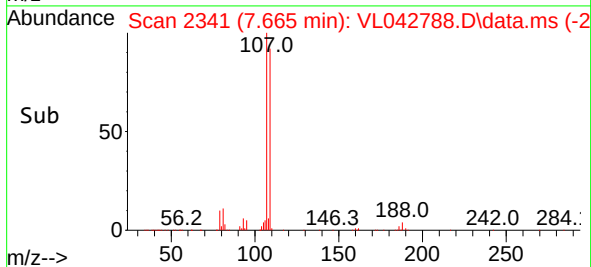
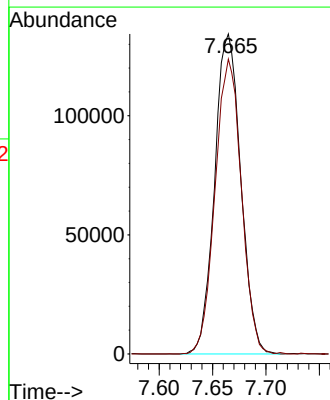
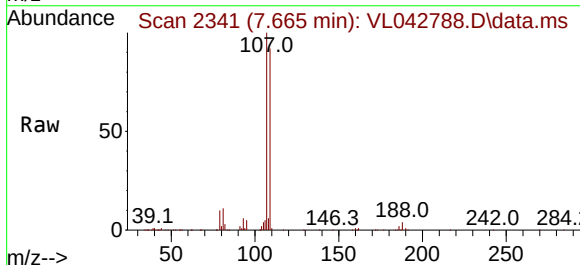
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

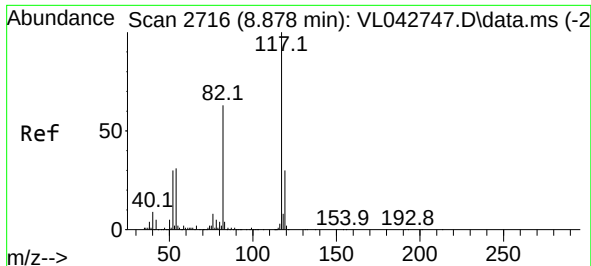
Tgt Ion: 91 Resp: 440370
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0



#54
1,2-Dibromoethane
Concen: 11.078 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 107 Resp: 228691
Ion Ratio Lower Upper
107 100
109 92.2 72.7 109.1

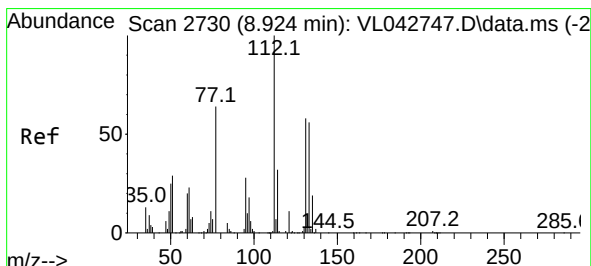
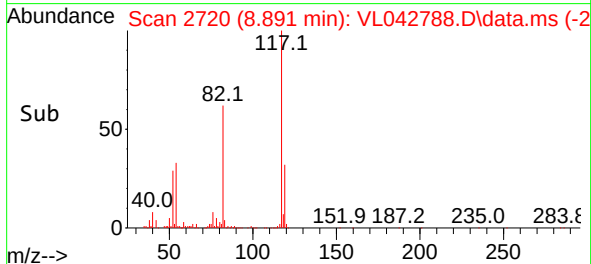
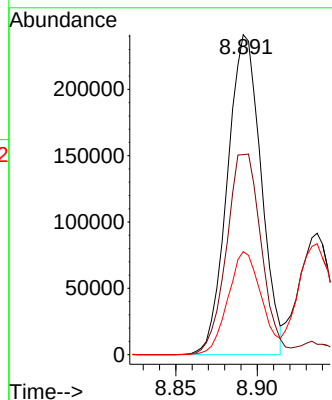
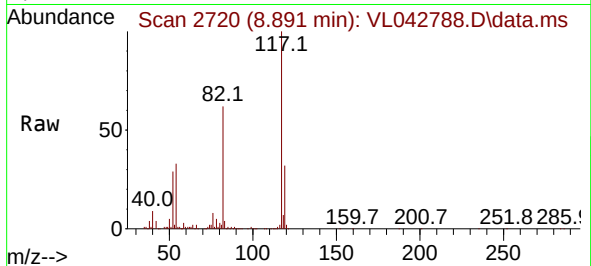




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

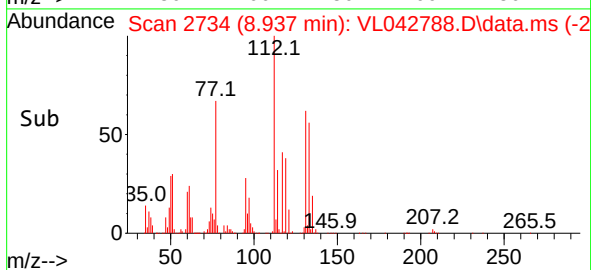
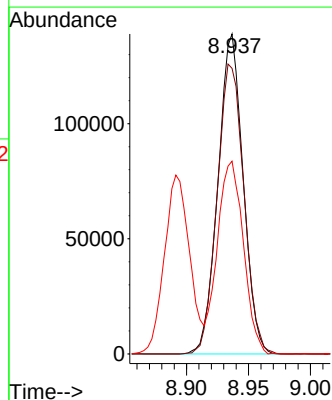
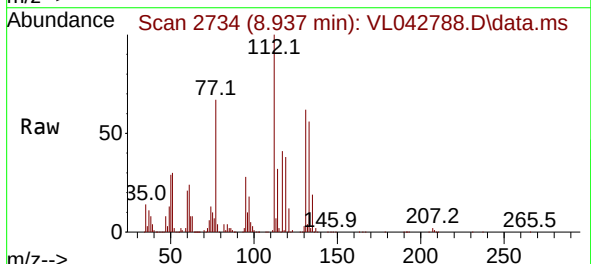
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

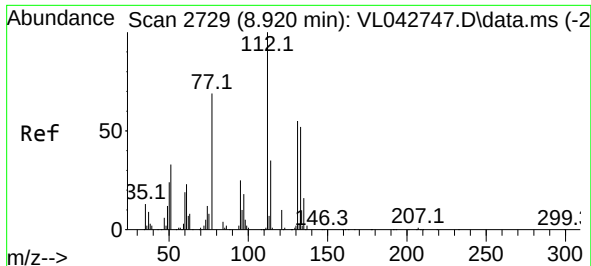
Tgt Ion:117 Resp: 345903
Ion Ratio Lower Upper
117 100
82 68.7 53.3 79.9
119 31.5 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 10.944 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:131 Resp: 196819
Ion Ratio Lower Upper
131 100
133 96.1 76.8 115.2
119 63.5 49.7 74.5

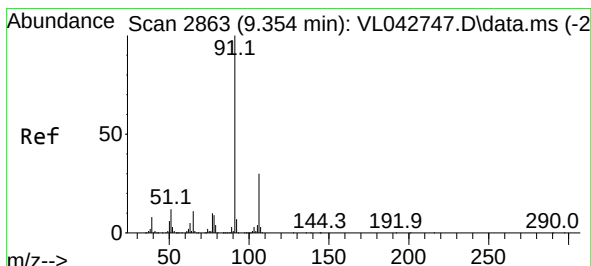
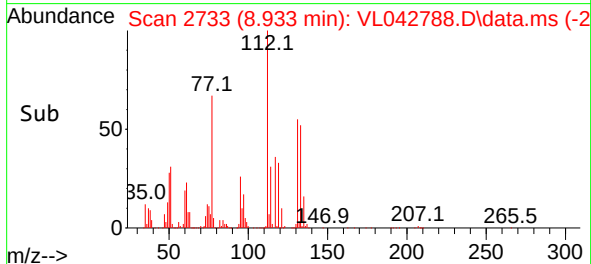
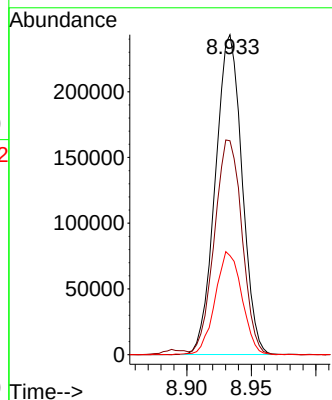
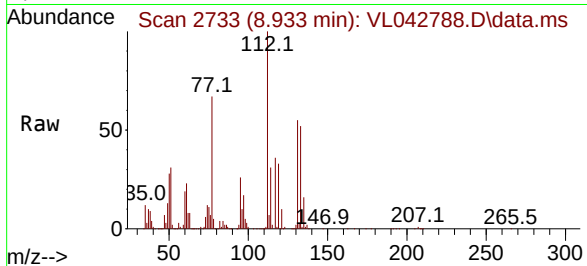




#57
Chlorobenzene
Concen: 10.455 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

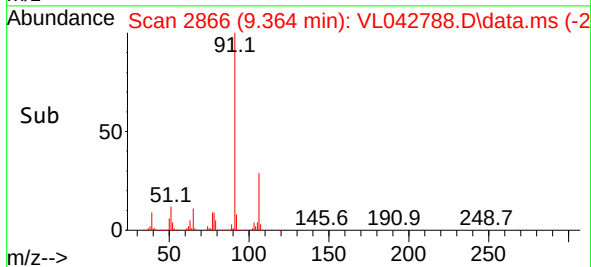
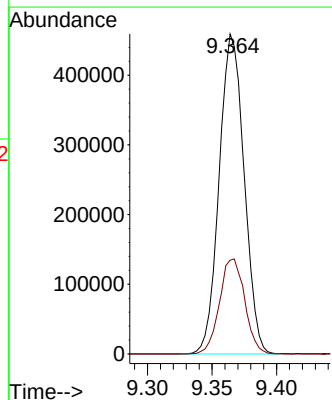
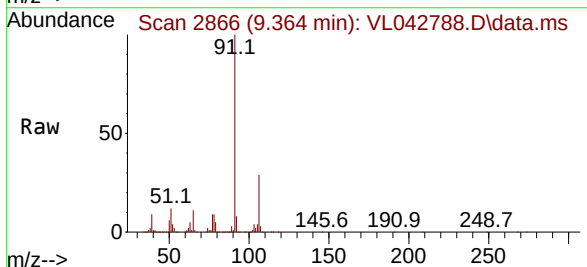
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

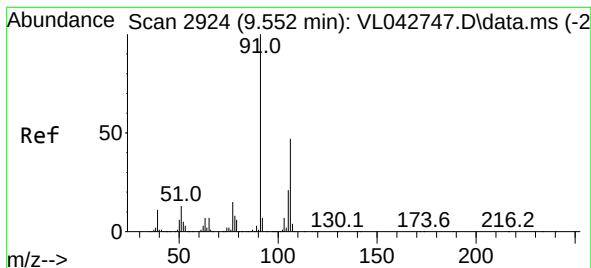
Tgt Ion:112 Resp: 349998
Ion Ratio Lower Upper
112 100
77 66.8 56.4 84.6
114 30.9 31.2 38.2#



#58
Ethyl Benzene
Concen: 11.272 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 615736
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.6





#59

m/p-Xylene

Concen: 10.957 ppbv

RT: 9.561 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

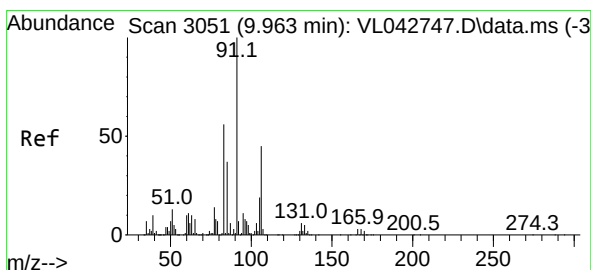
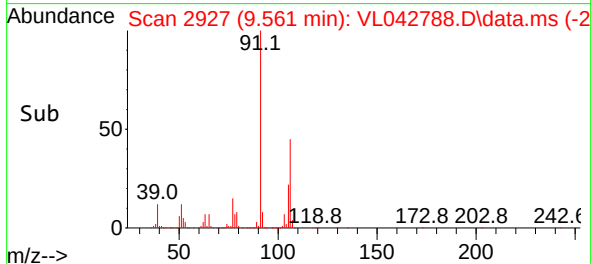
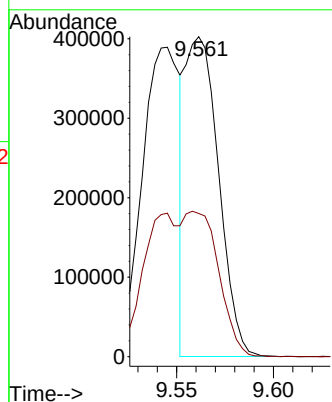
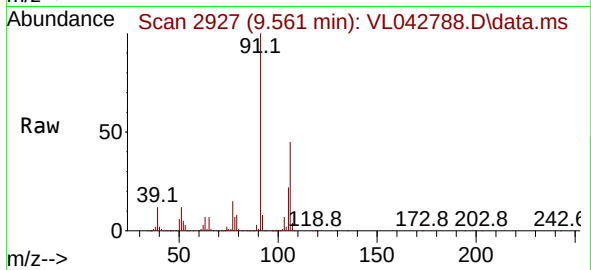
VSTDCCC010

Tgt Ion: 91 Resp: 478347

Ion Ratio Lower Upper

91 100

106 97.3 37.4 56.2#



#60

o-Xylene

Concen: 11.414 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042788.D

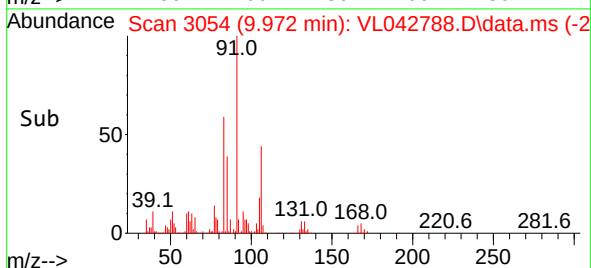
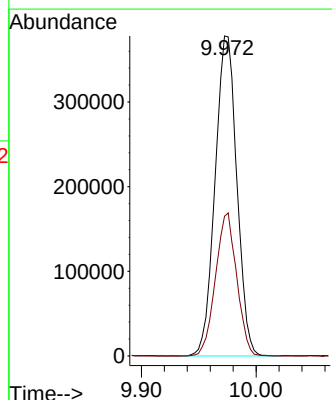
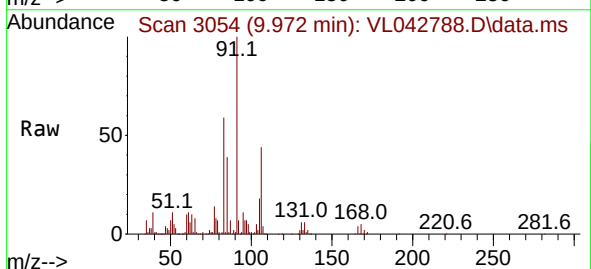
Acq: 31 Jul 2025 08:37

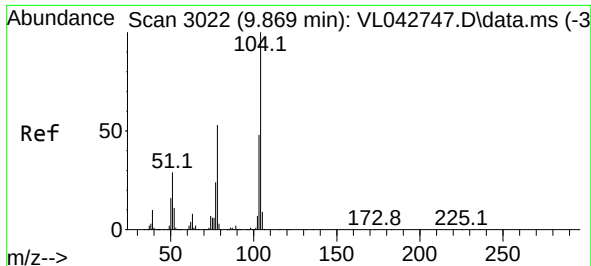
Tgt Ion: 91 Resp: 497901

Ion Ratio Lower Upper

91 100

106 43.7 22.0 66.0

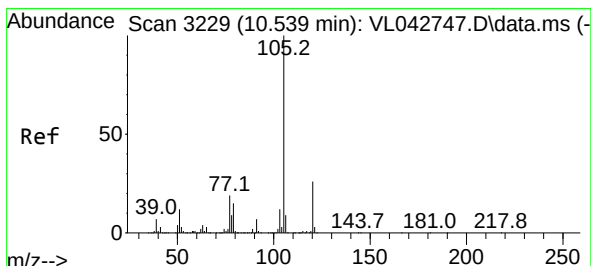
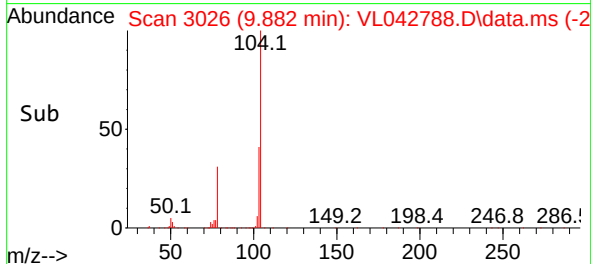
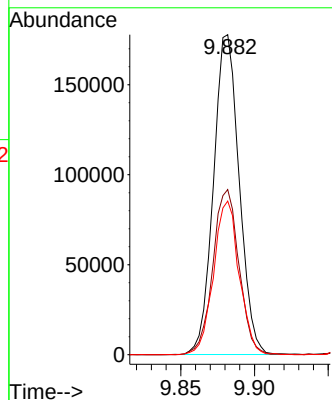
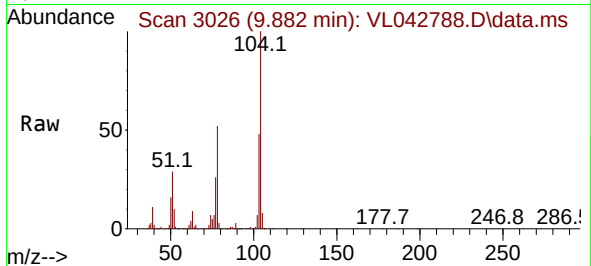




#61
Styrene
Concen: 11.742 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

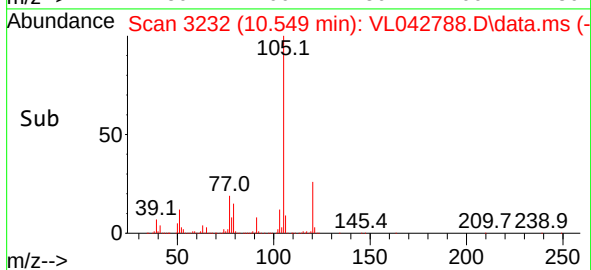
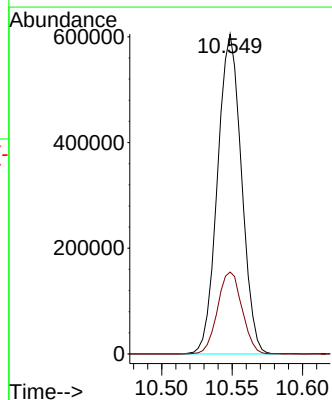
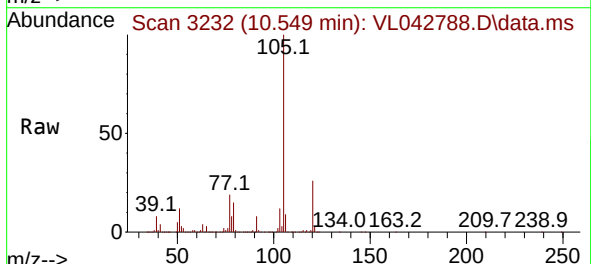
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

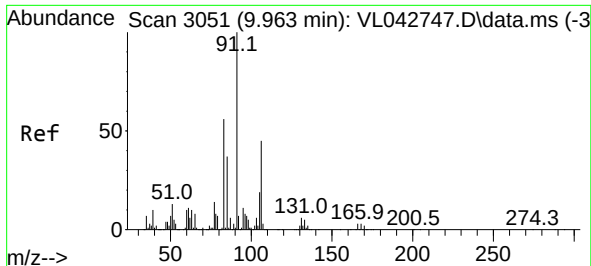
Tgt Ion:104 Resp: 215469
Ion Ratio Lower Upper
104 100
78 52.5 41.5 62.3
103 47.9 37.5 56.3



#62
Isopropylbenzene
Concen: 11.132 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:105 Resp: 716277
Ion Ratio Lower Upper
105 100
120 26.1 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 10.413 ppbv

RT: 9.972 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

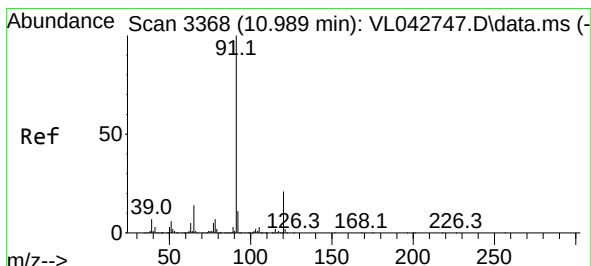
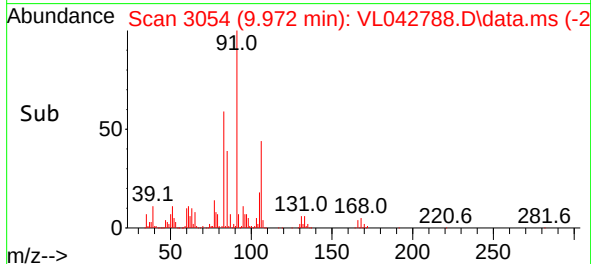
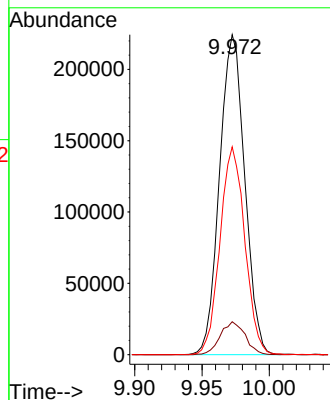
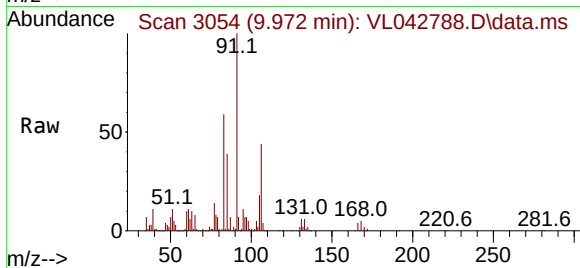
Tgt Ion: 83 Resp: 291626

Ion Ratio Lower Upper

83 100

131 10.2 5.0 15.0

85 64.1 32.6 97.7



#64

n-propylbenzene

Concen: 11.563 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. 0.010 min

Lab File: VL042788.D

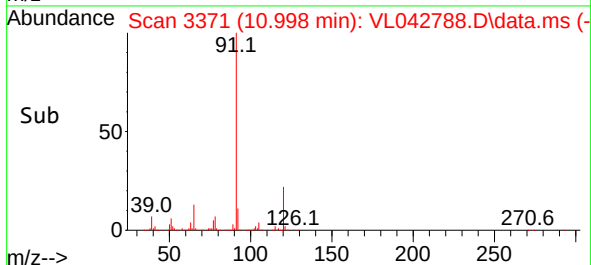
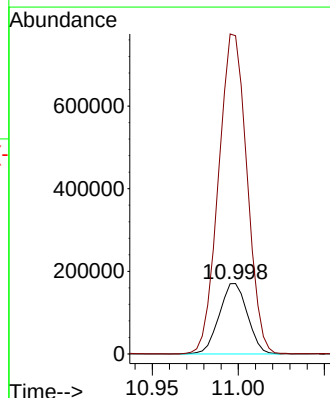
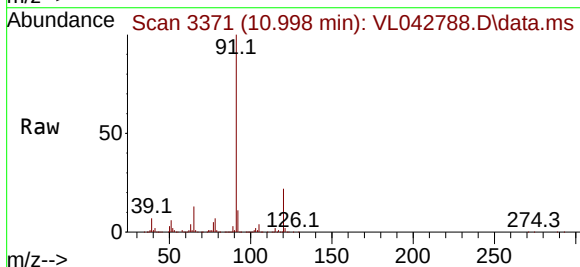
Acq: 31 Jul 2025 08:37

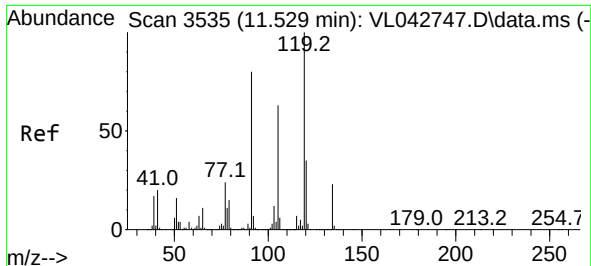
Tgt Ion:120 Resp: 193965

Ion Ratio Lower Upper

120 100

91 459.7 372.7 559.1

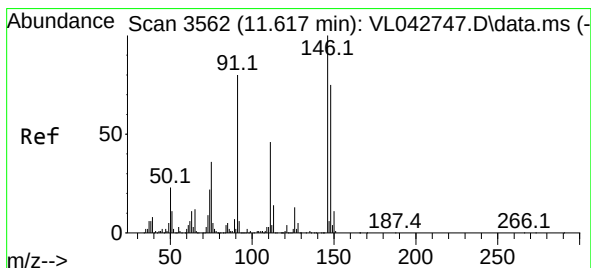
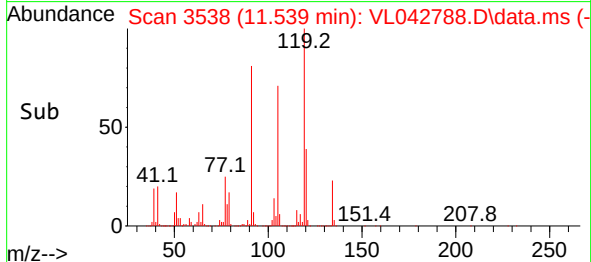
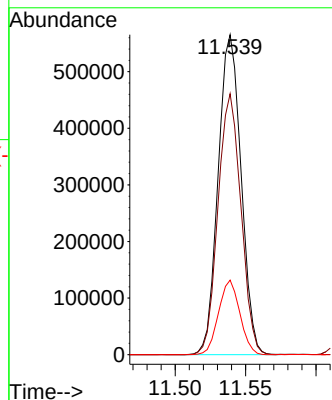
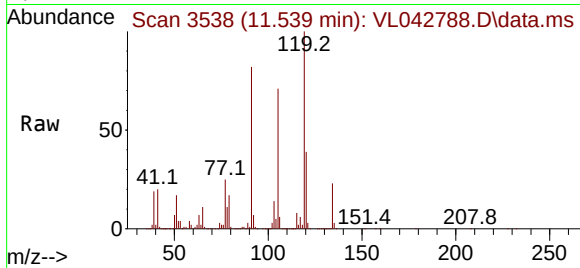




#65
 tert-Butylbenzene
 Concen: 11.215 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

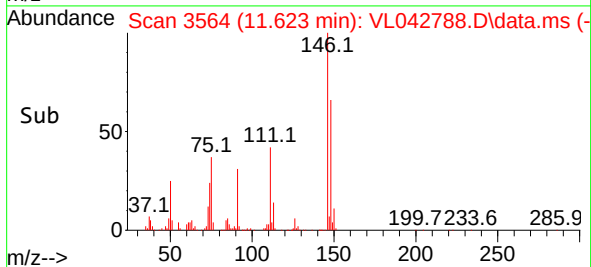
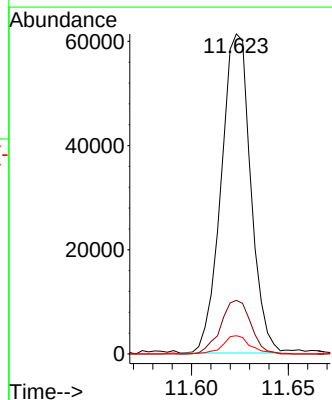
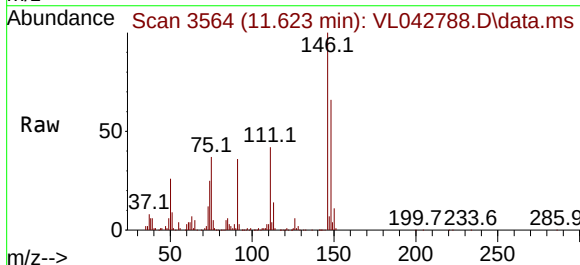
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

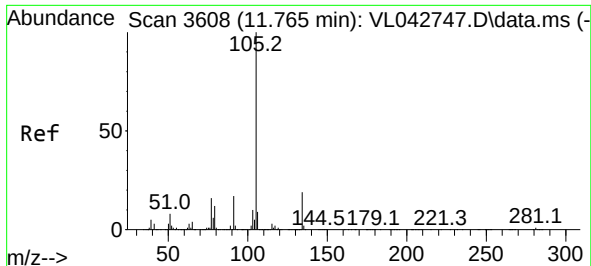
Tgt Ion:119 Resp: 641028
 Ion Ratio Lower Upper
 119 100
 91 81.6 64.0 96.0
 134 21.6 17.3 25.9



#66
 Benzyl Chloride
 Concen: 13.854 ppbv
 RT: 11.623 min Scan# 3564
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 65004
 Ion Ratio Lower Upper
 91 100
 126 17.1 14.4 21.6
 128 5.4 5.2 7.8

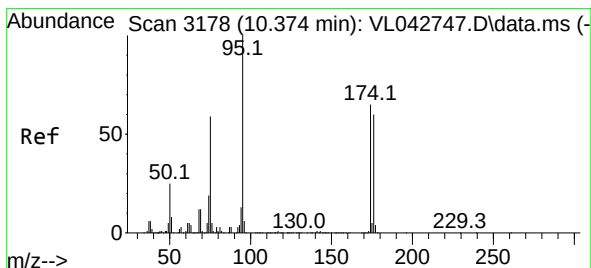
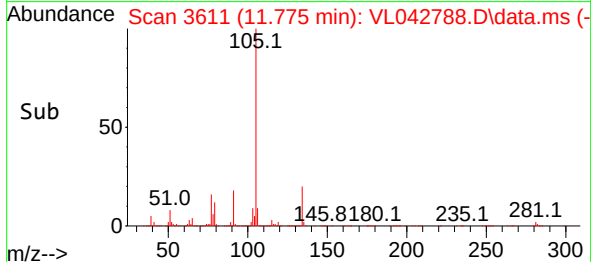
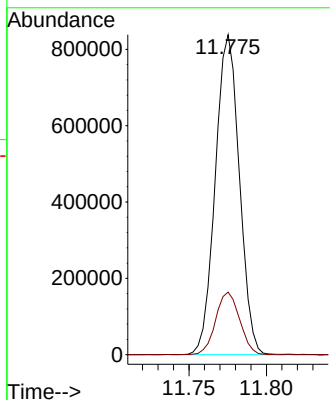
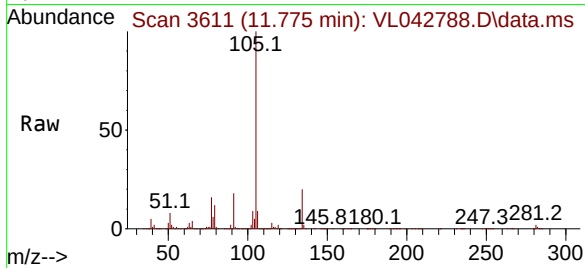




#67
 sec-Butylbenzene
 Concen: 11.144 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

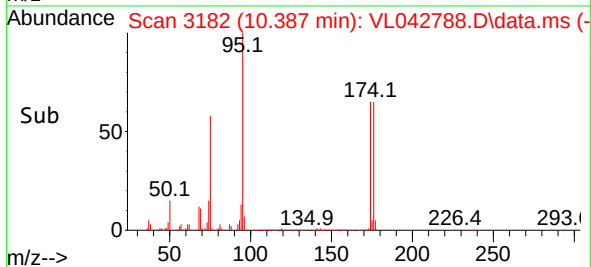
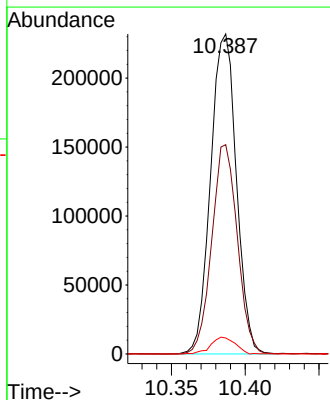
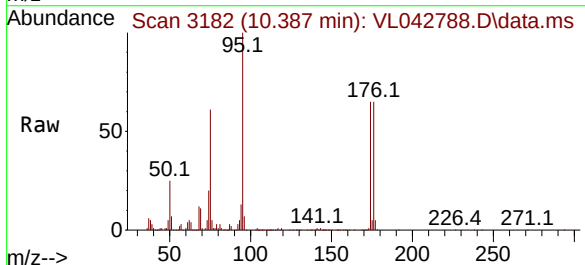
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

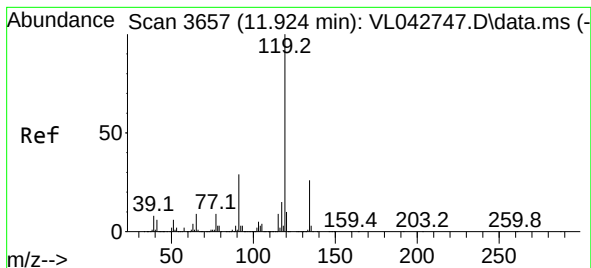
Tgt Ion:105 Resp: 905933
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.295 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.013 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 95 Resp: 282020
 Ion Ratio Lower Upper
 95 100
 174 65.0 53.8 80.6
 175 5.0 4.0 6.0

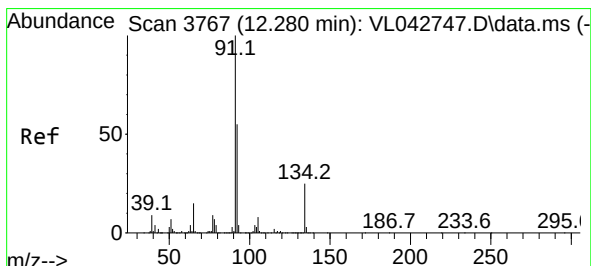
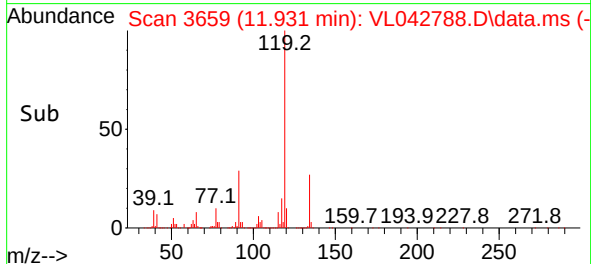
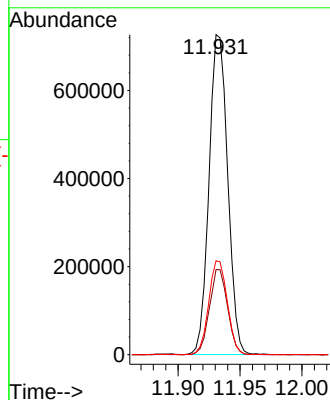
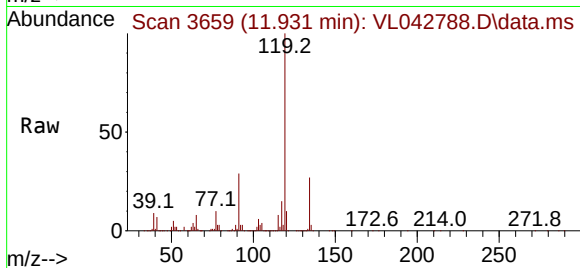




#69
 p-Isopropyltoluene
 Concen: 11.517 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

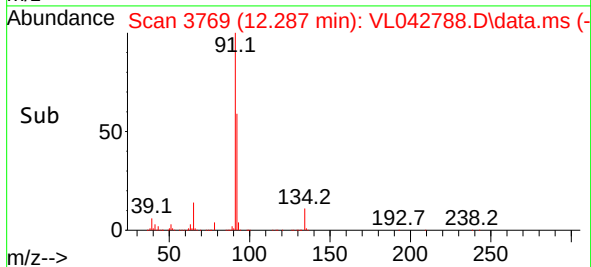
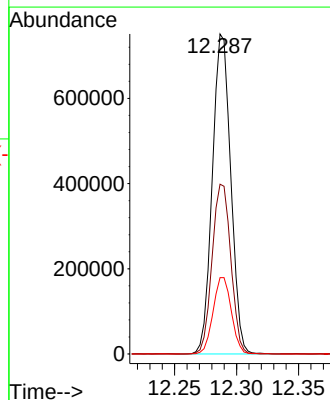
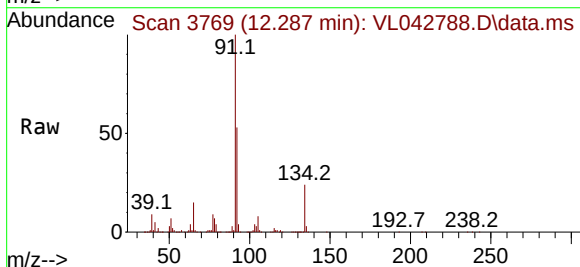
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

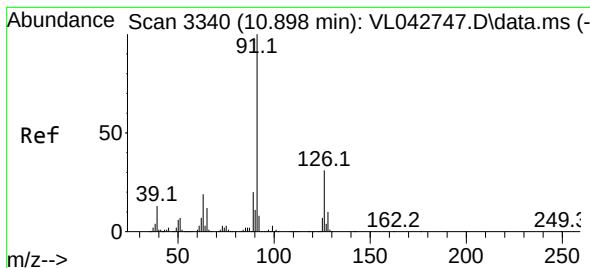
Tgt Ion:119 Resp: 763427
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.6 31.0
 91 29.4 23.2 34.8



#70
 n-Butylbenzene
 Concen: 12.171 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 779301
 Ion Ratio Lower Upper
 91 100
 92 53.9 43.4 65.2
 134 23.7 19.6 29.4





#71

2-Chlorotoluene

Concen: 11.203 ppbv

RT: 10.908 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

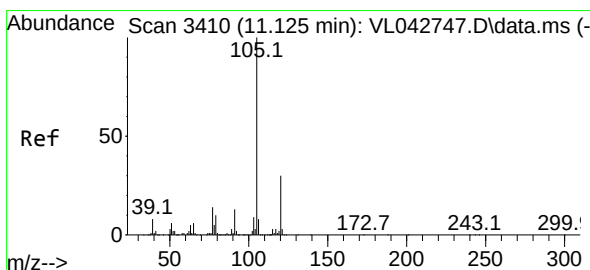
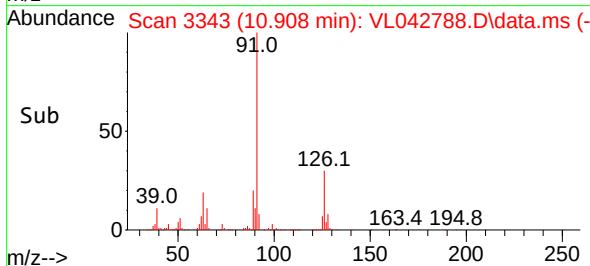
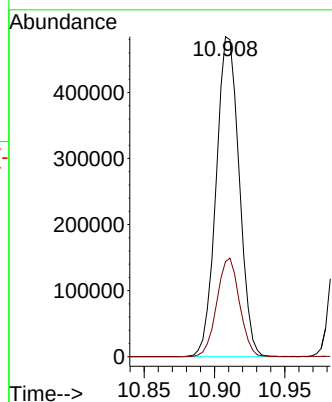
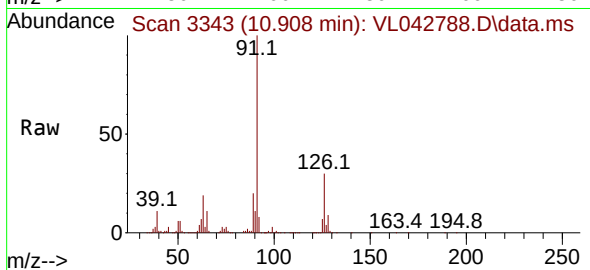
VSTDCCC010

Tgt Ion: 91 Resp: 552725

Ion Ratio Lower Upper

91 100

126 30.3 12.0 48.2



#72

4-Ethyltoluene

Concen: 11.745 ppbv

RT: 11.134 min Scan# 3413

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 105 Resp: 611893

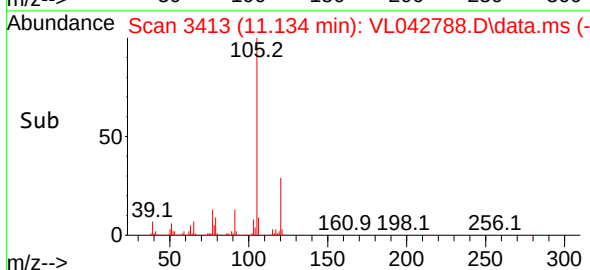
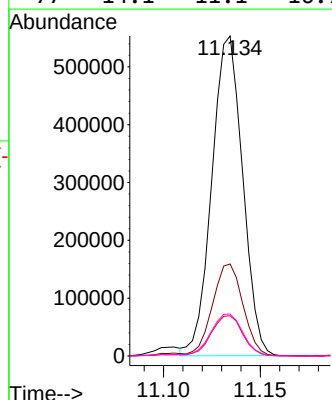
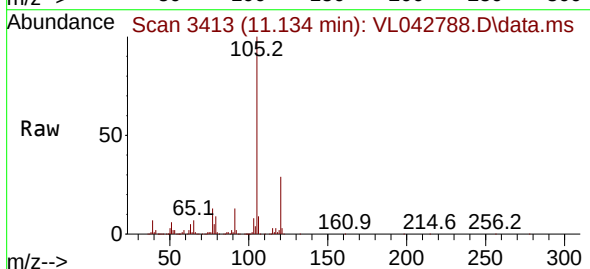
Ion Ratio Lower Upper

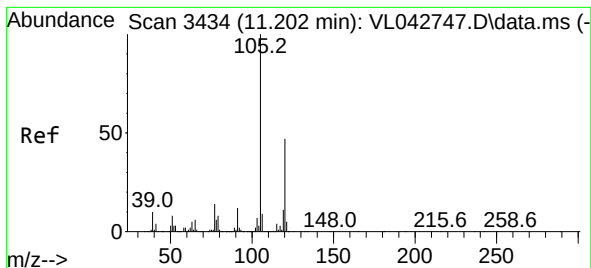
105 100

120 29.3 24.4 36.6

91 13.1 10.6 15.8

77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.791 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

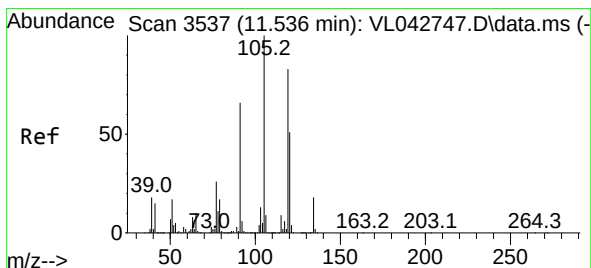
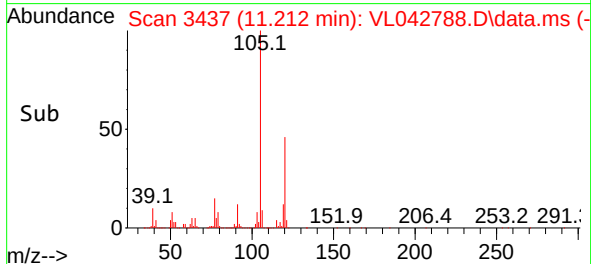
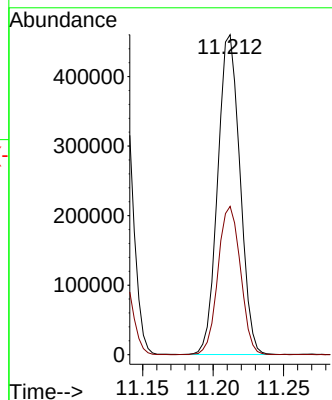
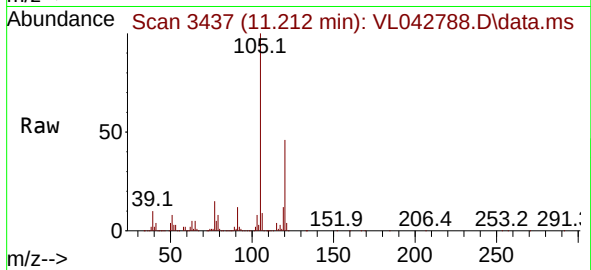
VSTDCCC010

Tgt Ion:105 Resp: 505734

Ion Ratio Lower Upper

105 100

120 46.3 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 12.030 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:105 Resp: 562952

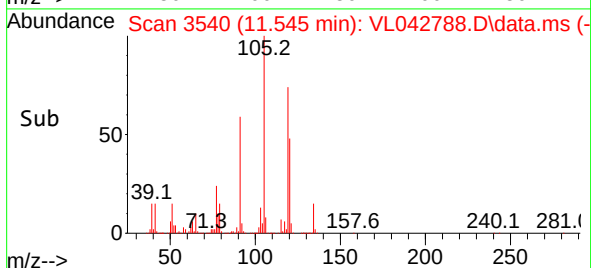
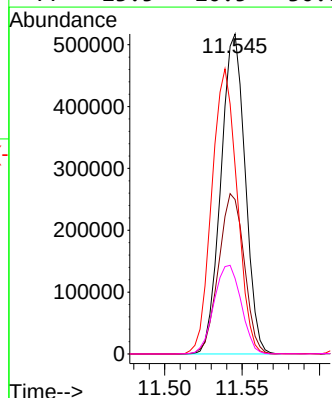
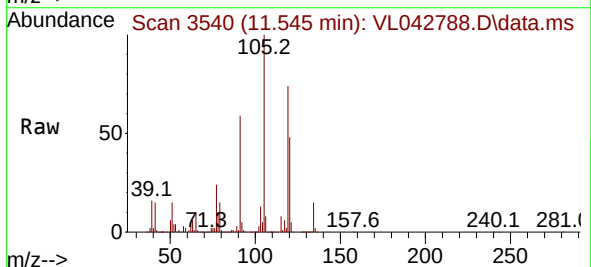
Ion Ratio Lower Upper

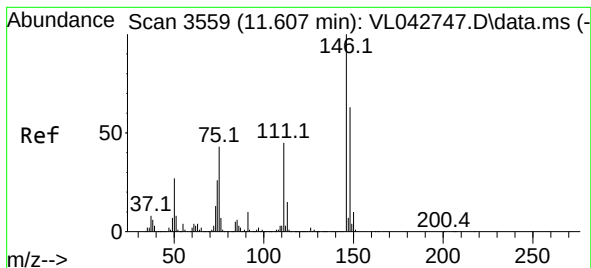
105 100

120 48.3 40.8 61.2

91 58.6 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 11.049 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

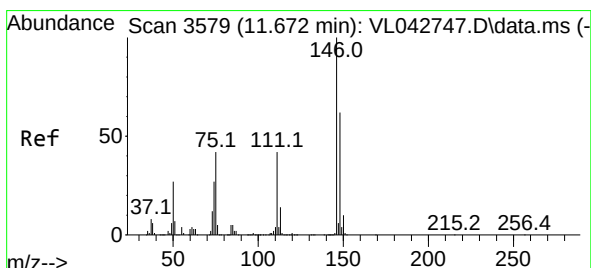
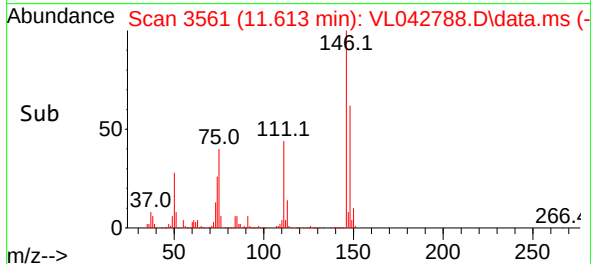
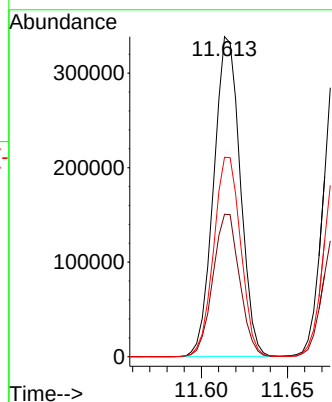
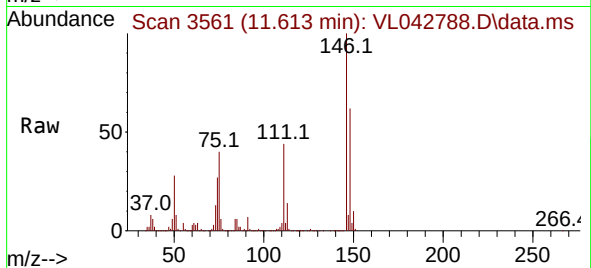
Tgt Ion:146 Resp: 362463

Ion Ratio Lower Upper

146 100

111 45.0 22.7 68.0

148 63.6 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 11.209 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

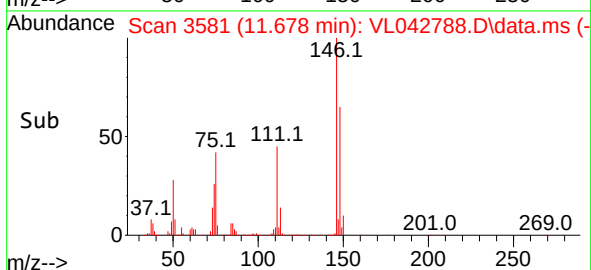
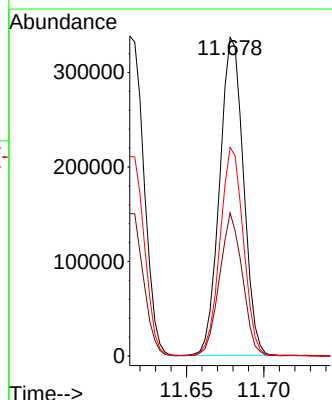
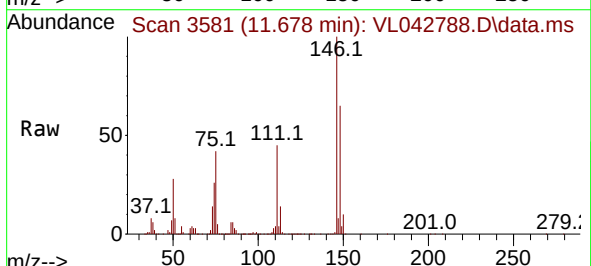
Tgt Ion:146 Resp: 359833

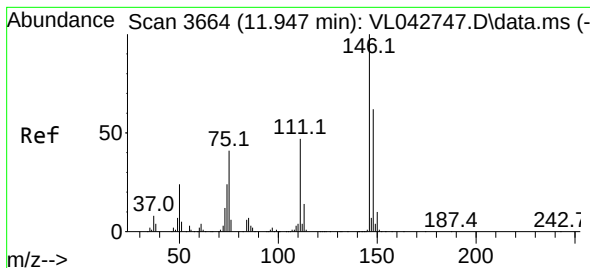
Ion Ratio Lower Upper

146 100

111 43.2 21.4 64.2

148 64.8 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.812 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDC010

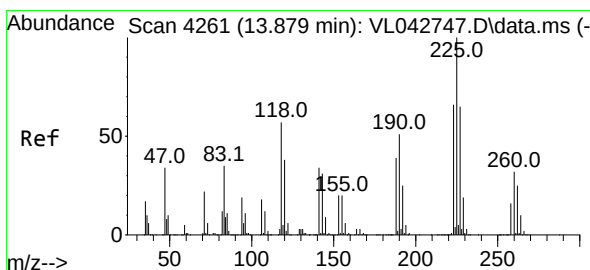
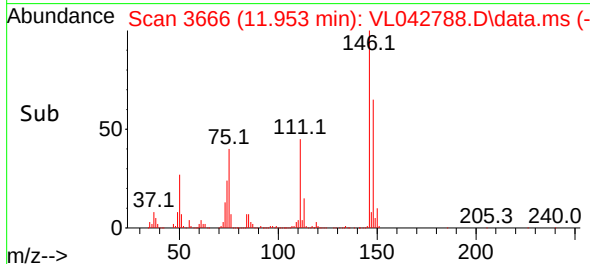
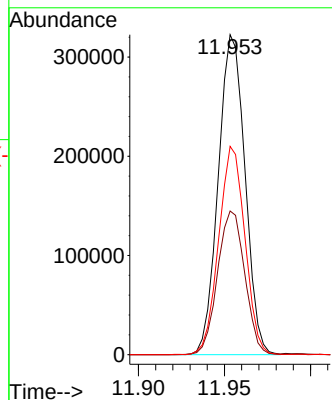
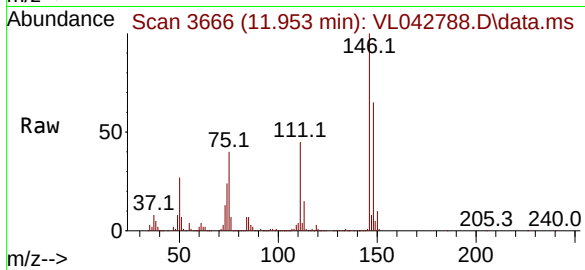
Tgt Ion:146 Resp: 348624

Ion Ratio Lower Upper

146 100

111 45.9 23.7 71.1

148 64.1 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 9.673 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

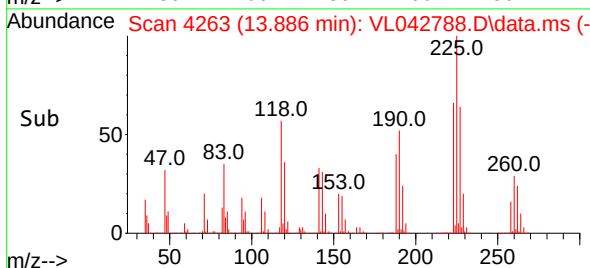
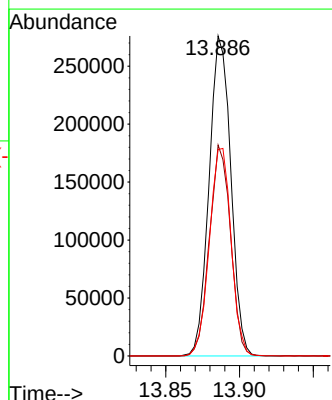
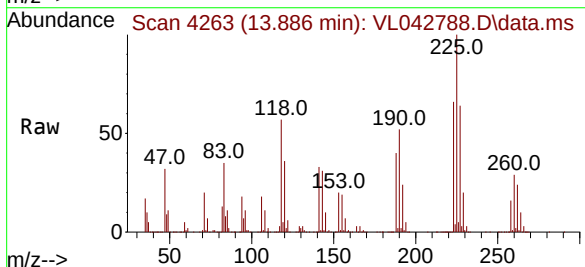
Tgt Ion:225 Resp: 282288

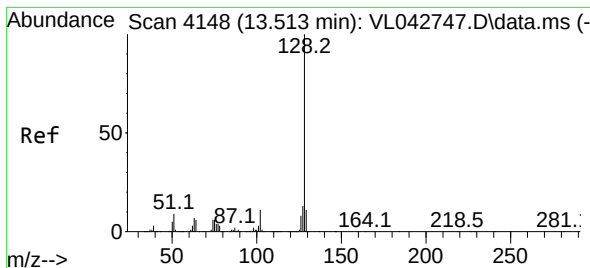
Ion Ratio Lower Upper

225 100

223 64.2 50.7 76.1

227 65.1 50.5 75.7





#79

Naphthalene

Concen: 11.014 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

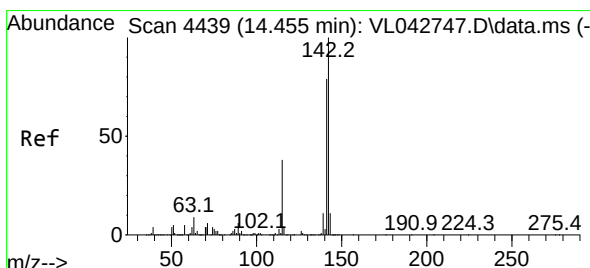
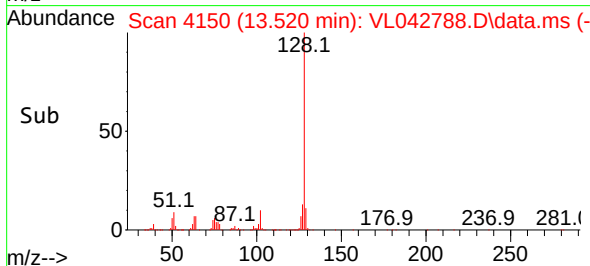
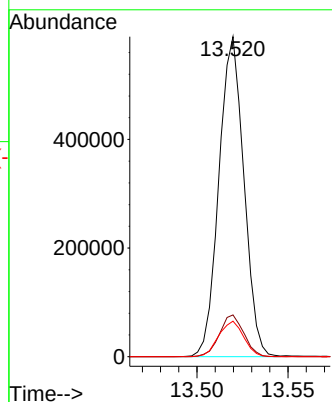
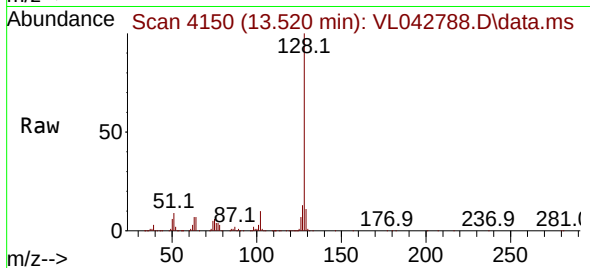
Tgt Ion:128 Resp: 561584

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

129 11.1 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 9.837 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

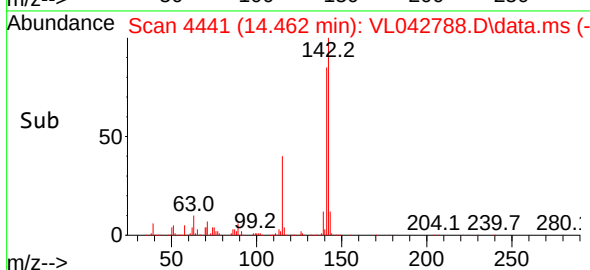
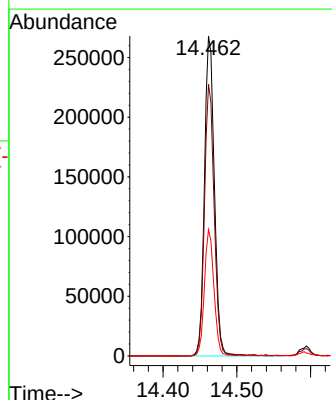
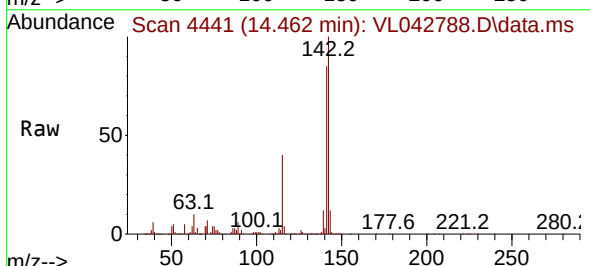
Tgt Ion:142 Resp: 249243

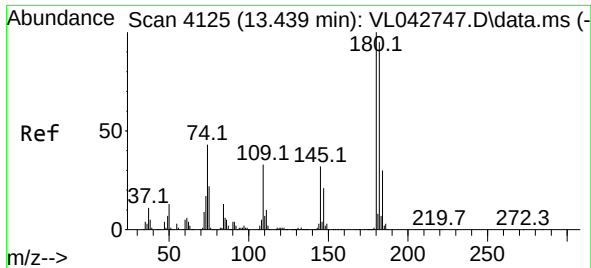
Ion Ratio Lower Upper

142 100

141 83.7 65.8 98.8

115 38.5 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.987 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042788.D

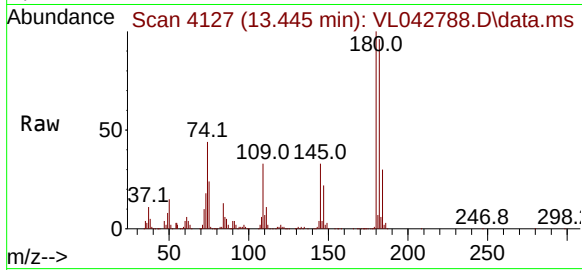
Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



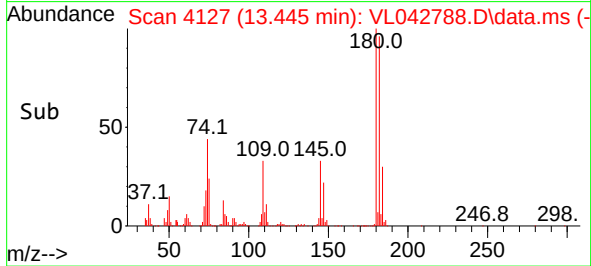
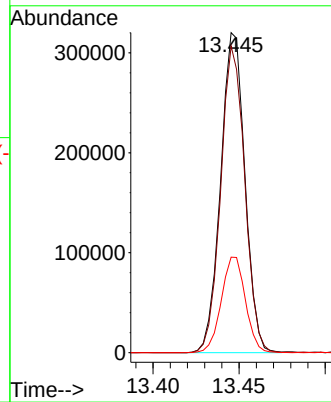
Tgt Ion:180 Resp: 314832

Ion Ratio Lower Upper

180 100

182 94.7 76.2 114.2

184 29.7 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0724ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Quant Time: Aug 01 01:13:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	2.794	49	140975	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	391458	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	349880	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	284130	10.254	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	179092	9.608	ppbv	98
3) Chlorodifluoromethane	1.476	51	243995	10.049	ppbv	99
4) Chloromethane	1.535	50	73605	9.761	ppbv	95
5) Vinyl Chloride	1.583	62	63029	8.460	ppbv	92
6) Bromomethane	1.671	94	25942	9.007	ppbv	99
7) Chloroethane	1.706	64	25445	8.839	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	144815	9.447	ppbv	98
9) Propene	1.486	41	87288	9.891	ppbv	100
10) Heptane	4.991	43	255178	10.724	ppbv	98
11) Trichlorofluoromethane	1.881	101	178945	9.314	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	137912	9.446	ppbv	99
13) Ethanol	1.722	45	6331	8.701	ppbv	97
14) Bromoethene	1.784	108	49330	9.543	ppbv	99
15) Acetone	1.839	43	147760	7.590	ppbv	99
16) 1,3-Butadiene	1.612	39	74826	9.012	ppbv	98
17) tert-Butyl alcohol	2.043	59	157784	8.987	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59478	9.016	ppbv	96
19) Isopropyl Alcohol	1.887	45	91274	8.823	ppbv	94
20) Methylene Chloride	2.065	84	51356	8.372	ppbv	94
21) Allyl Chloride	2.098	41	117287	9.776	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	67541	9.517	ppbv	98
23) Vinyl Acetate	2.467	43	270452	11.460	ppbv	98
24) 1,1-Dichloroethane	2.412	63	137263	9.423	ppbv	98
25) Ethyl Acetate	2.839	43	453552	10.526	ppbv	99
26) Hexane	2.829	57	195021	10.318	ppbv	98
27) Carbon Disulfide	2.153	76	165318	10.216	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	86612	9.699	ppbv	97
29) Chloroform	2.852	83	300921	10.303	ppbv	97
30) Cyclohexane	3.865	84	165101	10.299	ppbv	97
31) cis-1,2-Dichloroethene	2.726	61	194661	10.022	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	293497	9.647	ppbv	98
34) 2-Butanone	2.561	43	298296	10.758	ppbv	100
35) Carbon Tetrachloride	3.771	117	312530	10.748	ppbv	99
36) Benzene	3.664	78	390877	10.536	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236656	10.589	ppbv	99
38) Trichloroethene	4.558	130	174246	9.776	ppbv	97
39) 1,2-Dichloropropane	4.321	63	144288	10.536	ppbv	98
40) 1,4-Dioxane	4.590	88	54856	8.594	ppbv #	89
41) Tetrahydrofuran	3.059	42	161537	11.448	ppbv	98
42) Bromodichloromethane	4.496	83	321891	11.059	ppbv #	99
43) Methyl Methacrylate	4.888	69	151803	11.512	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	672509	11.121	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	165606	11.199	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0724ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

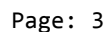
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

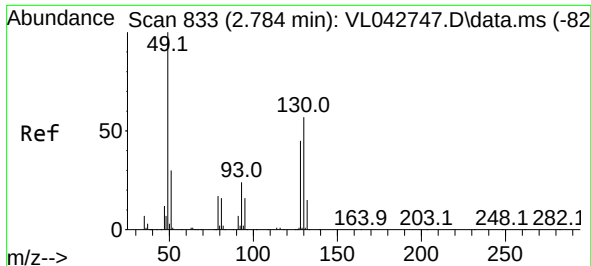
Quant Time: Aug 01 01:13:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	208804	11.143	ppbv	97
47) 1,1,2-Trichloroethane	6.594	97	154552	10.587	ppbv	97
48) Dibromochloromethane	7.399	129	261380	11.278	ppbv	99
49) Bromoform	9.494	173	231022	11.433	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	402543	11.270	ppbv	99
51) 2-Hexanone	7.445	43	321076	11.895	ppbv #	99
52) Tetrachloroethene	8.238	164	145761	9.479	ppbv	96
53) Toluene	6.943	91	439867	11.041	ppbv	100
54) 1,2-Dibromoethane	7.665	107	225399	10.928	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.934	131	198394	10.906	ppbv	100
57) Chlorobenzene	8.930	112	351678	10.386	ppbv #	96
58) Ethyl Benzene	9.364	91	614495	11.121	ppbv	99
59) m/p-Xylene	9.562	91	464380	10.516	ppbv #	30
60) o-Xylene	9.976	91	493686	11.188	ppbv	99
61) Styrene	9.879	104	211712	11.406	ppbv	99
62) Isopropylbenzene	10.549	105	716413	11.007	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	288264	10.176	ppbv	98
64) n-propylbenzene	10.995	120	190663	11.237	ppbv	100
65) tert-Butylbenzene	11.539	119	654563	11.322	ppbv	99
66) Benzyl Chloride	11.623	91	63429	13.365	ppbv	98
67) sec-Butylbenzene	11.775	105	909814	11.065	ppbv	99
69) p-Isopropyltoluene	11.931	119	774561	11.553	ppbv	100
70) n-Butylbenzene	12.287	91	785569	12.130	ppbv	99
71) 2-Chlorotoluene	10.908	91	556610	11.153	ppbv	99
72) 4-Ethyltoluene	11.131	105	618091	11.729	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	515043	11.871	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	570715	12.057	ppbv	93
75) 1,3-Dichlorobenzene	11.614	146	360095	10.852	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	366048	11.273	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	351242	10.770	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	281564	9.538	ppbv	99
79) Naphthalene	13.520	128	540121	10.494	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	221690	8.786	ppbv	100
81) 1,2,4-Trichlorobenzene	13.446	180	305698	10.565	ppbv	100

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

Quant Time: Aug 01 01:13:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

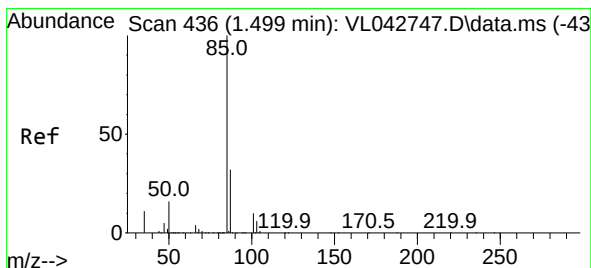
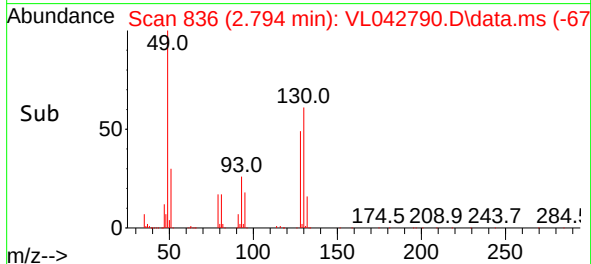
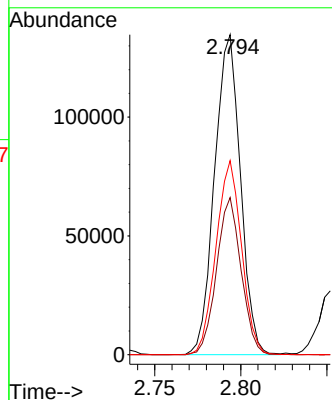
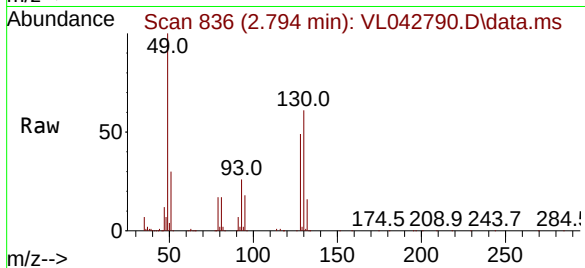




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 833
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

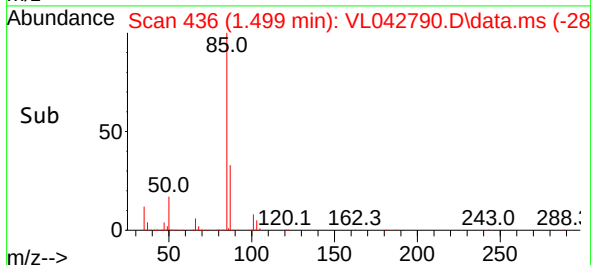
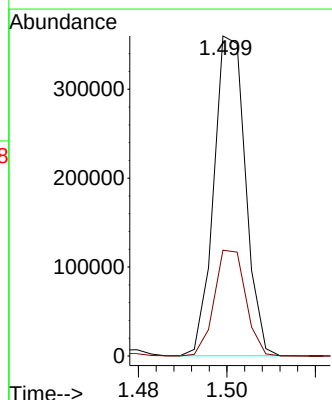
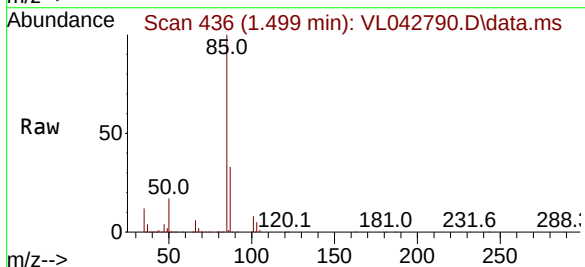
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

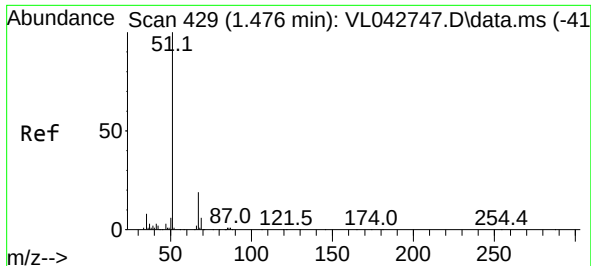
Tgt Ion: 49 Resp: 140975
 Ion Ratio Lower Upper
 49 100
 128 46.6 23.6 71.0
 130 59.8 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 9.608 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 85 Resp: 179092
 Ion Ratio Lower Upper
 85 100
 87 33.1 25.4 38.2

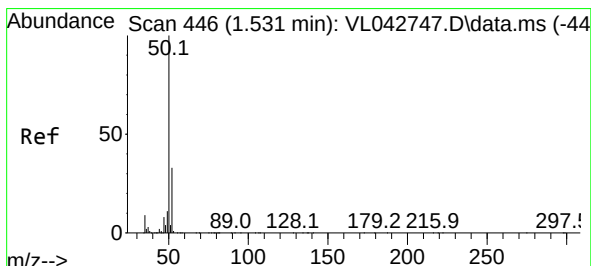
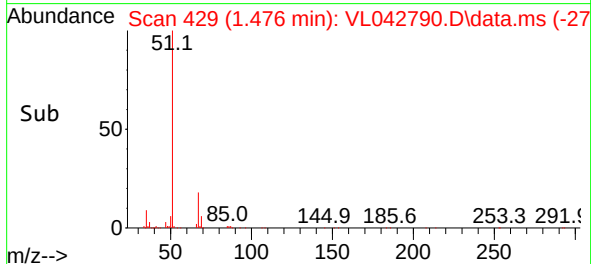
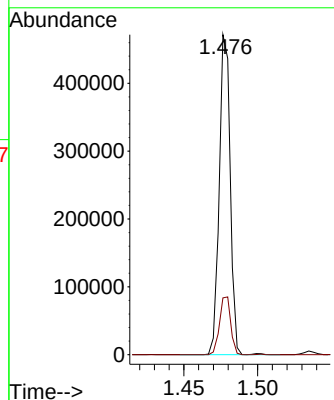
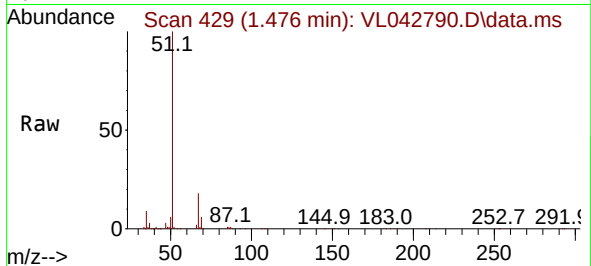




#3
Chlorodifluoromethane
Concen: 10.049 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

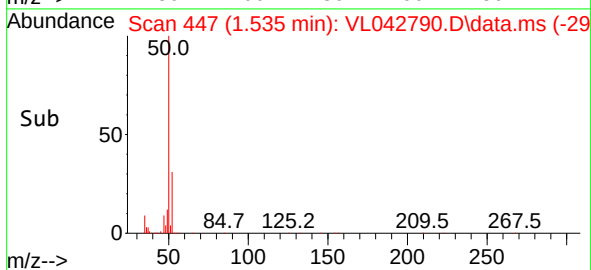
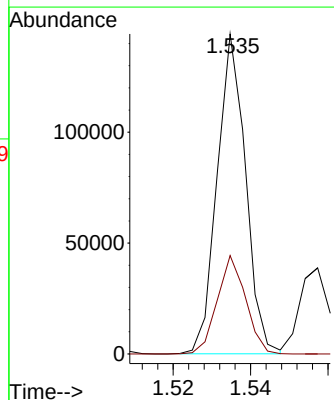
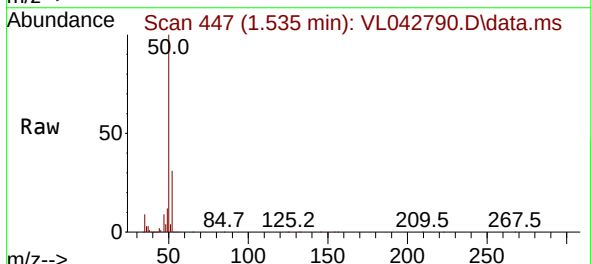
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

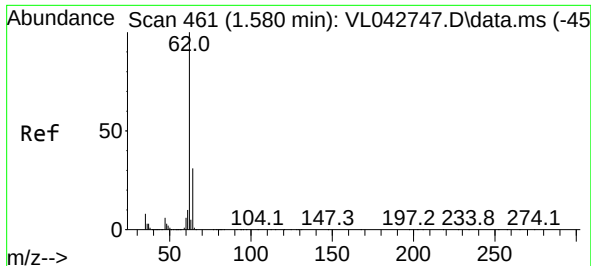
Tgt Ion: 51 Resp: 243995
Ion Ratio Lower Upper
51 100
67 18.6 15.0 22.6



#4
Chloromethane
Concen: 9.761 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 50 Resp: 73605
Ion Ratio Lower Upper
50 100
52 30.7 26.6 40.0

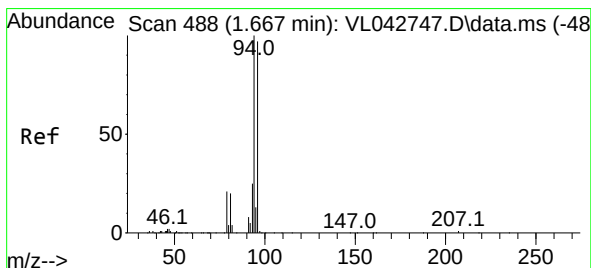
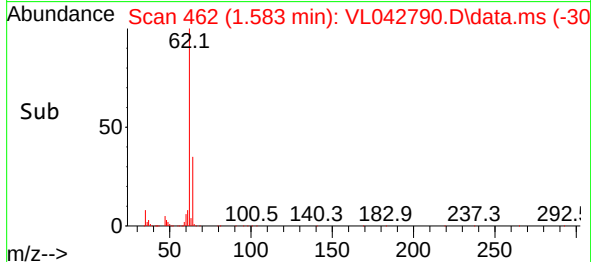
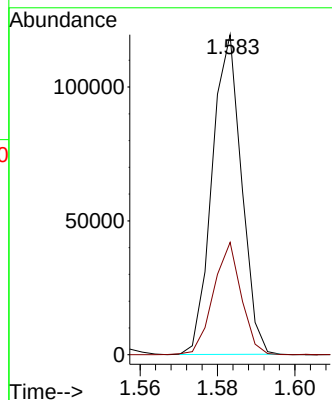
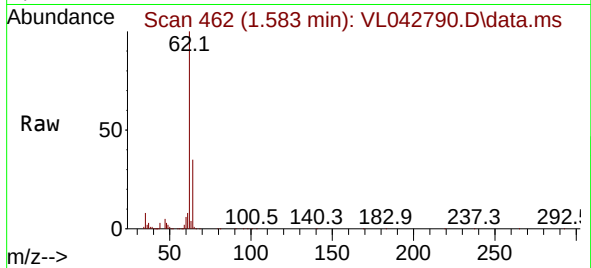




#5
 Vinyl Chloride
 Concen: 8.460 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

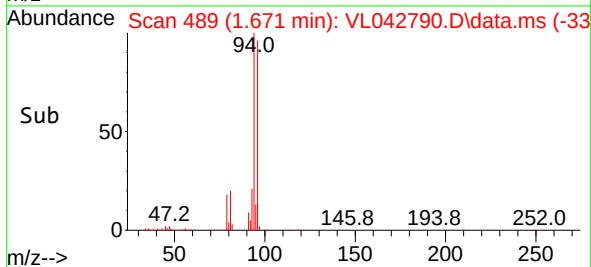
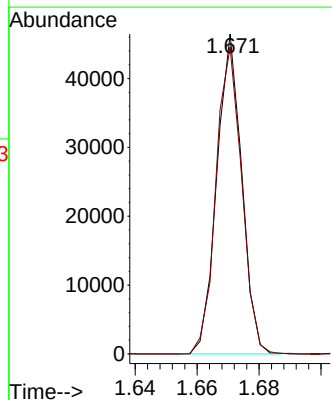
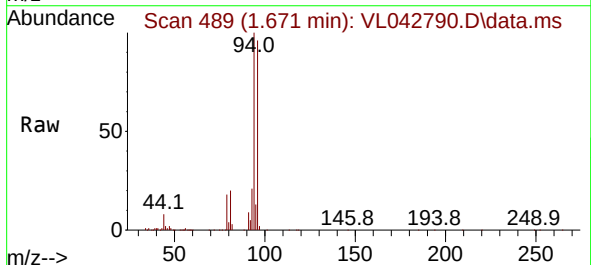
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

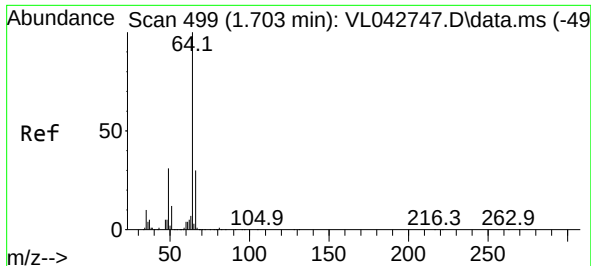
Tgt Ion: 62 Resp: 63029
 Ion Ratio Lower Upper
 62 100
 64 35.1 24.5 36.7



#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 94 Resp: 25942
 Ion Ratio Lower Upper
 94 100
 96 95.9 77.6 116.4

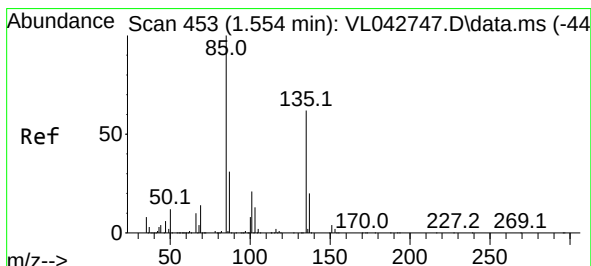
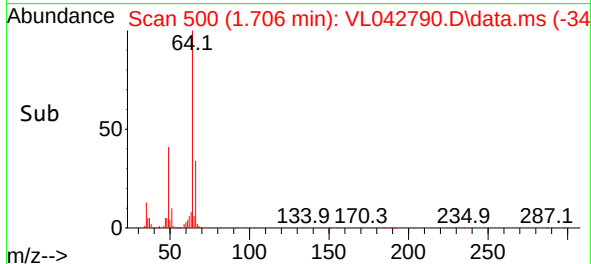
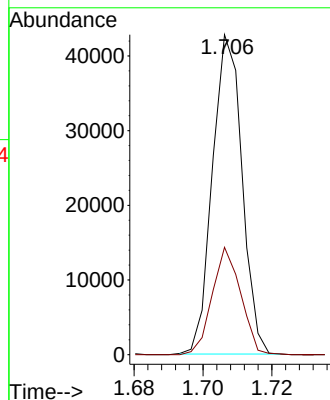
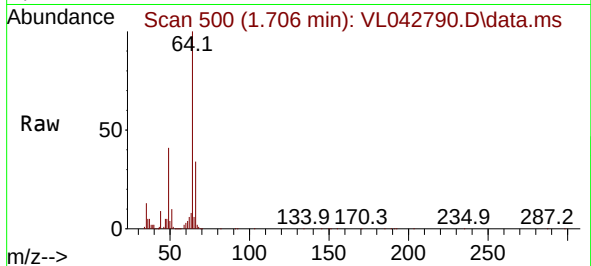




#7
Chloroethane
Concen: 8.839 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

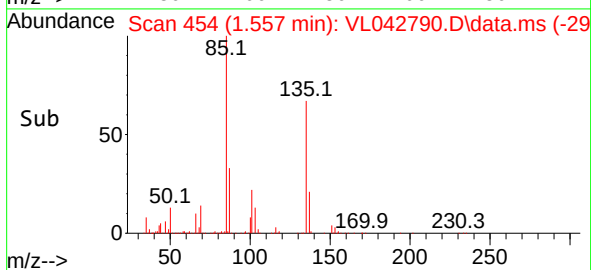
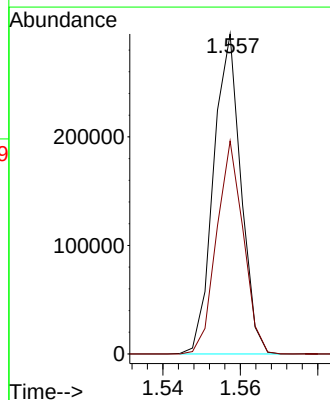
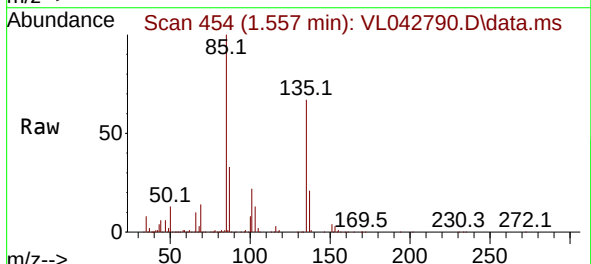
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

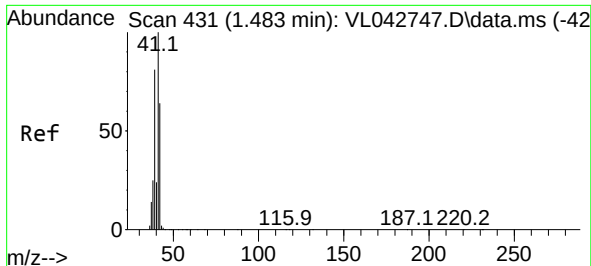
Tgt Ion: 64 Resp: 25445
Ion Ratio Lower Upper
64 100
66 33.5 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.447 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 85 Resp: 144815
Ion Ratio Lower Upper
85 100
135 65.0 50.6 76.0





#9

Propene

Concen: 9.891 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

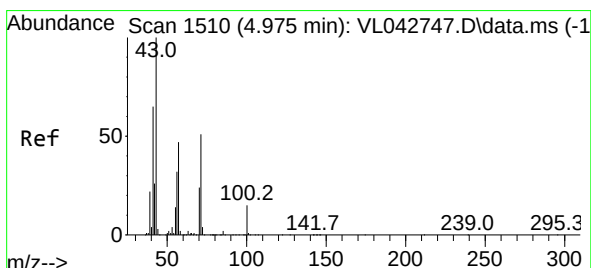
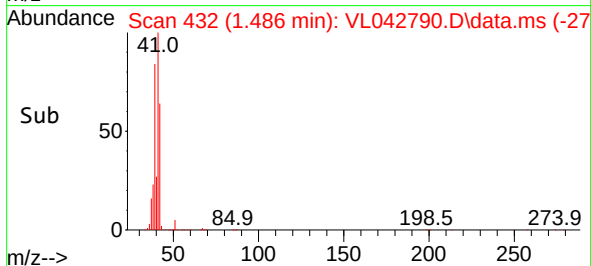
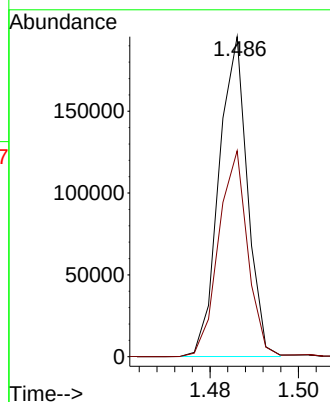
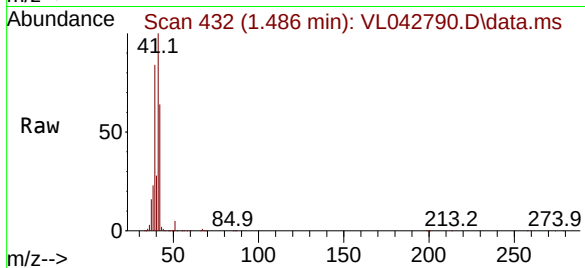
VL0731ABS01

Tgt Ion: 41 Resp: 87288

Ion Ratio Lower Upper

41 100

42 66.7 53.2 79.8



#10

Heptane

Concen: 10.724 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.016 min

Lab File: VL042790.D

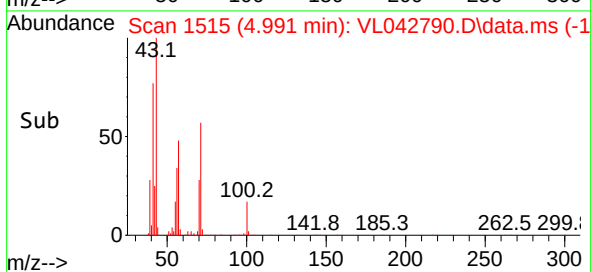
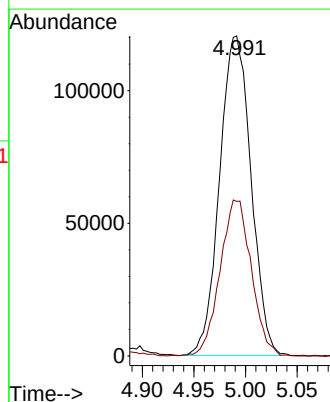
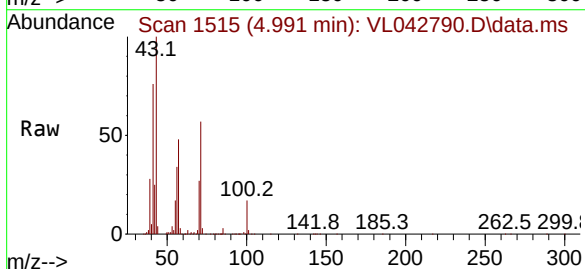
Acq: 31 Jul 2025 10:15

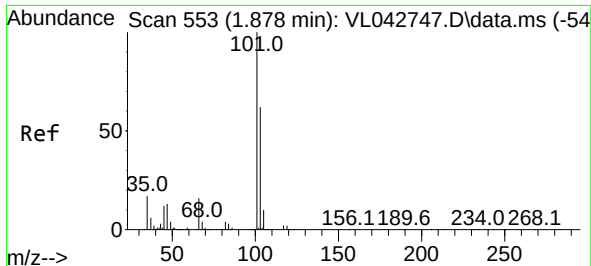
Tgt Ion: 43 Resp: 255178

Ion Ratio Lower Upper

43 100

57 48.6 39.9 59.9

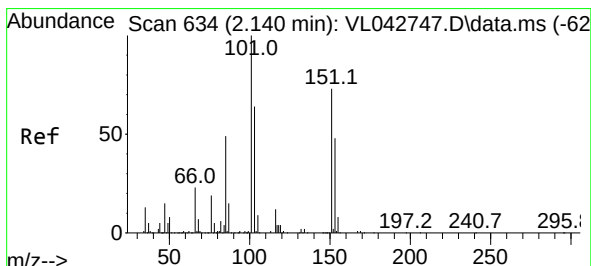
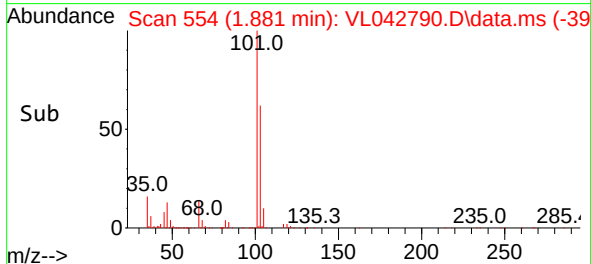
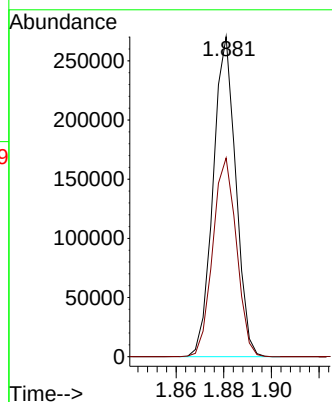
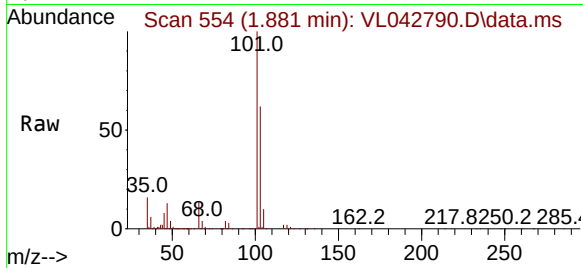




#11
 Trichlorofluoromethane
 Concen: 9.314 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

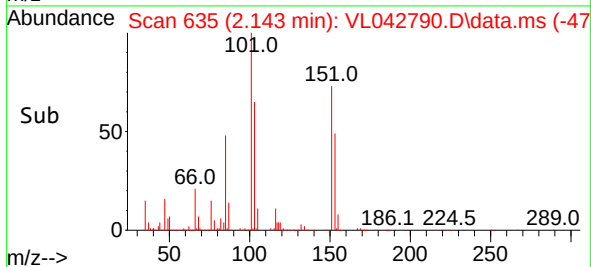
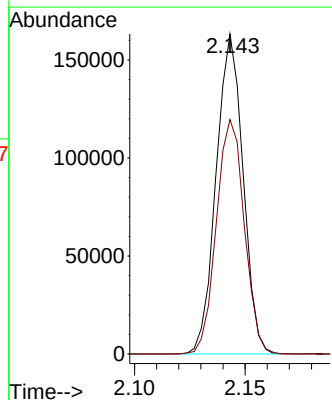
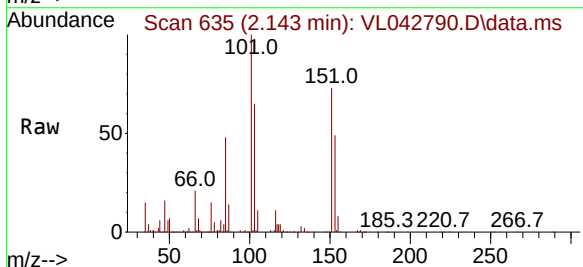
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

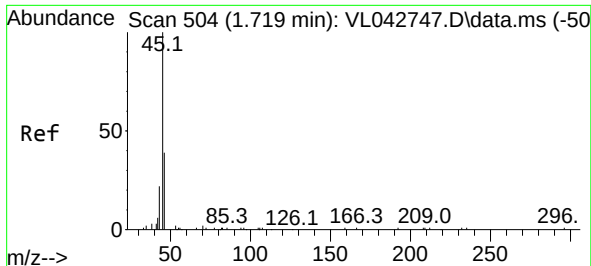
Tgt Ion:101 Resp: 178945
 Ion Ratio Lower Upper
 101 100
 103 62.1 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.446 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion:101 Resp: 137912
 Ion Ratio Lower Upper
 101 100
 151 76.0 60.5 90.7

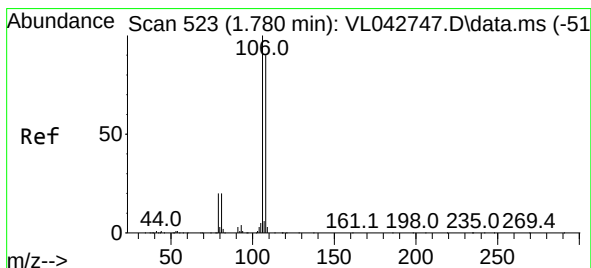
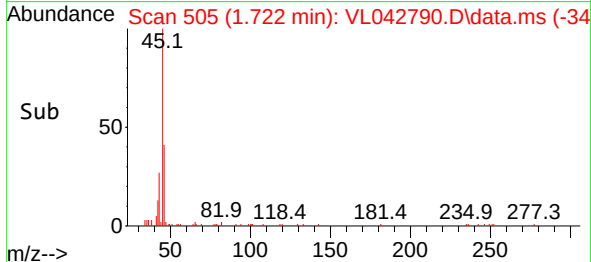
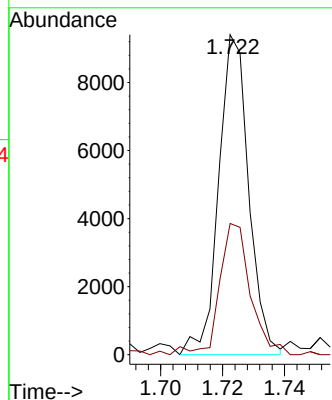
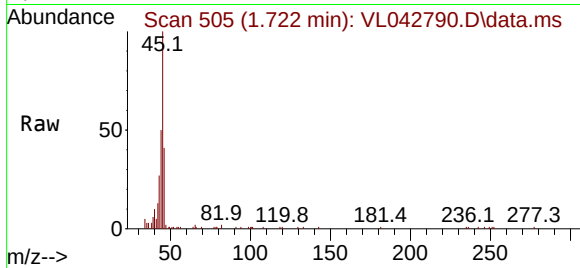




#13
Ethanol
Concen: 8.701 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

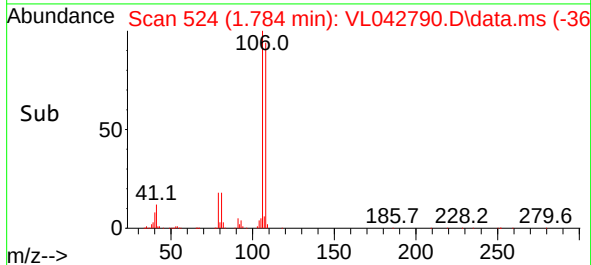
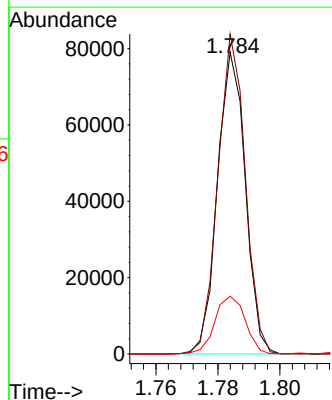
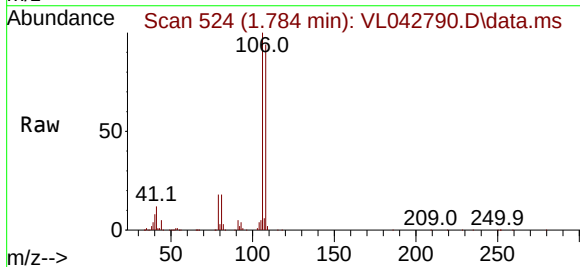
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

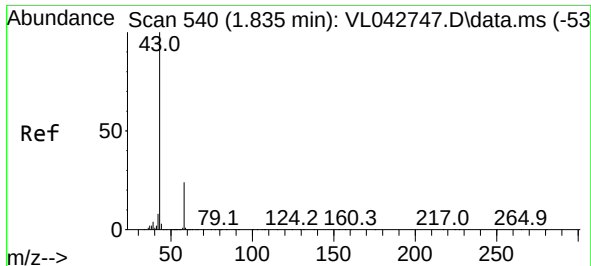
Tgt Ion: 45 Resp: 6331
Ion Ratio Lower Upper
45 100
46 42.3 17.8 71.4



#14
Bromoethene
Concen: 9.543 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 108 Resp: 49330
Ion Ratio Lower Upper
108 100
106 104.2 84.7 127.1
79 21.5 17.4 26.2

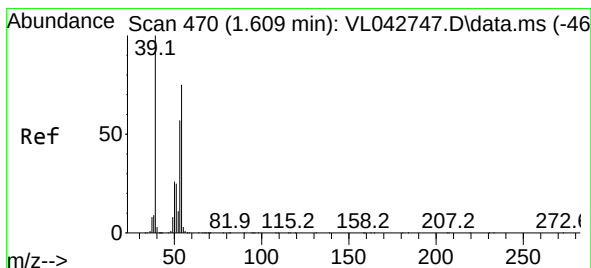
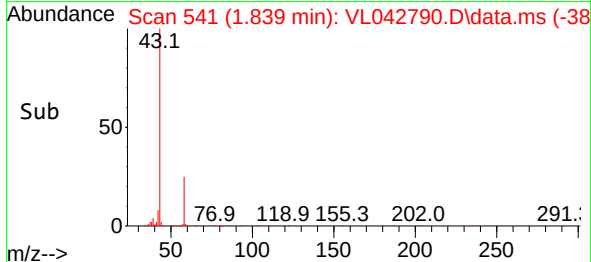
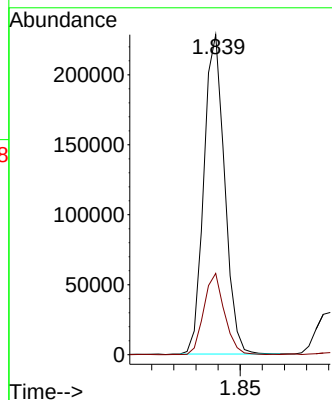
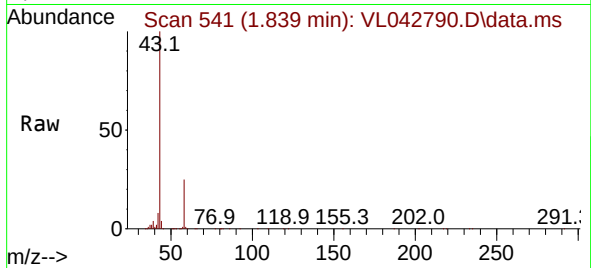




#15
Acetone
Concen: 7.590 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

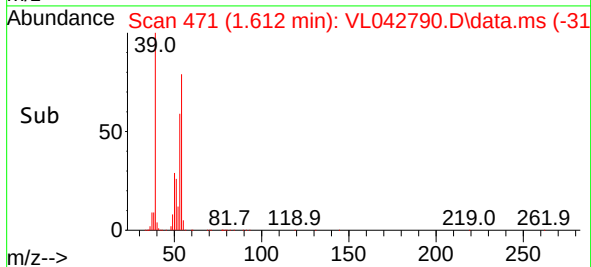
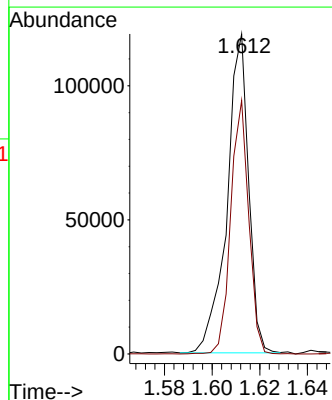
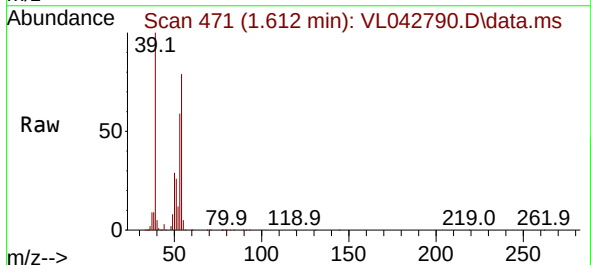
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

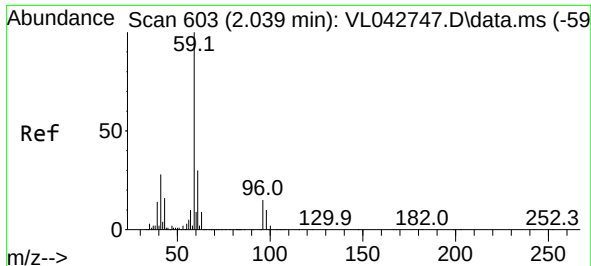
Tgt Ion: 43 Resp: 147760
Ion Ratio Lower Upper
43 100
58 25.5 19.8 29.8



#16
1,3-Butadiene
Concen: 9.012 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 39 Resp: 74826
Ion Ratio Lower Upper
39 100
54 66.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.987 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

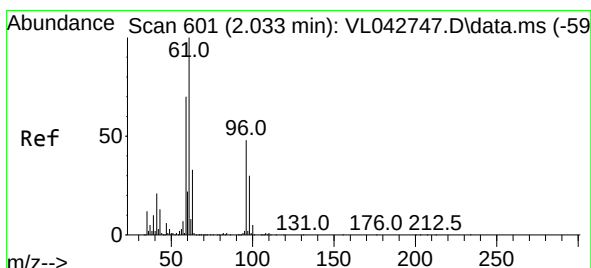
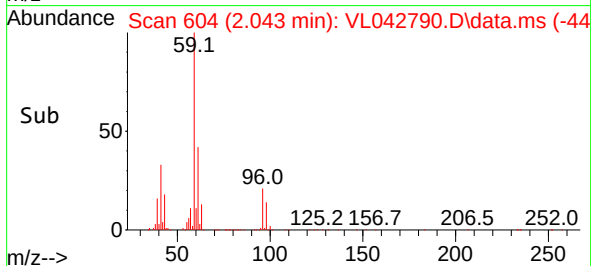
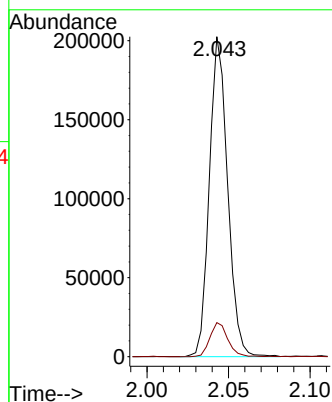
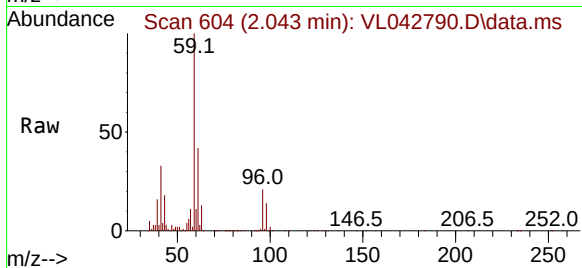
VL0731ABS01

Tgt Ion: 59 Resp: 157784

Ion Ratio Lower Upper

59 100

57 10.6 8.3 12.5



#18

1,1-Dichloroethene

Concen: 9.016 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

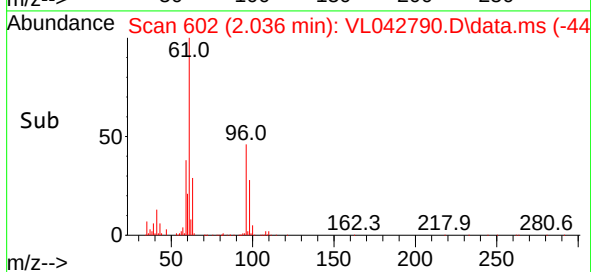
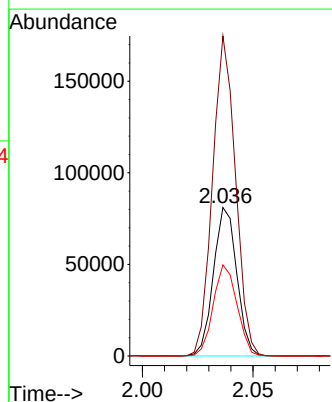
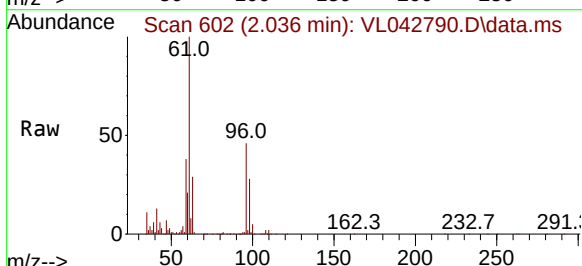
Tgt Ion: 96 Resp: 59478

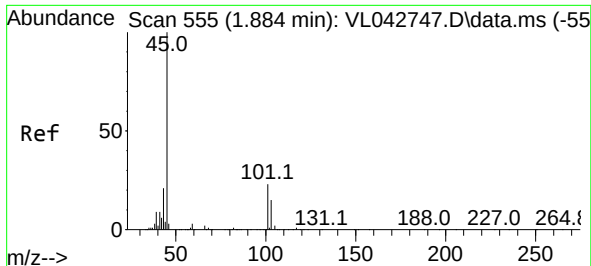
Ion Ratio Lower Upper

96 100

61 215.5 165.8 248.6

98 61.3 49.9 74.9

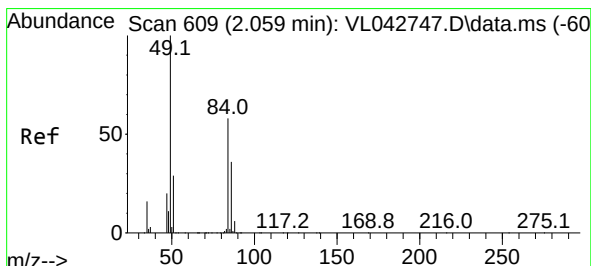
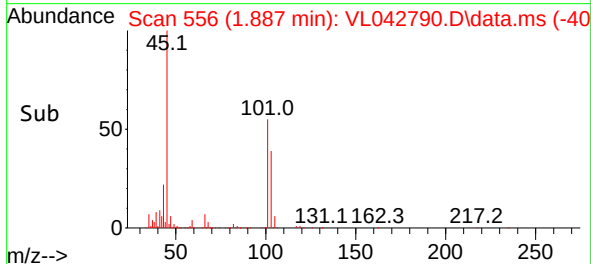
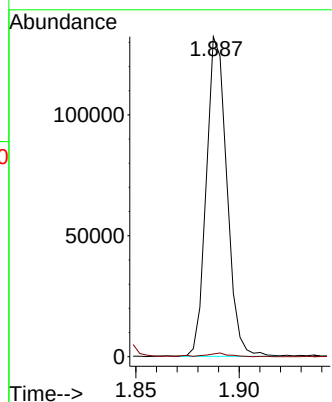
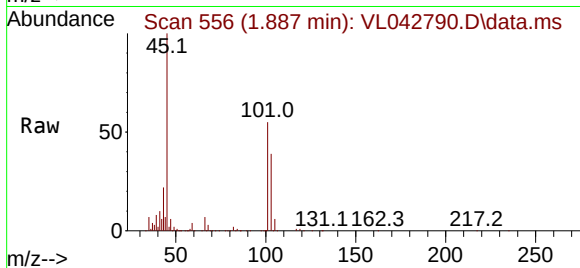




#19
Isopropyl Alcohol
Concen: 8.823 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

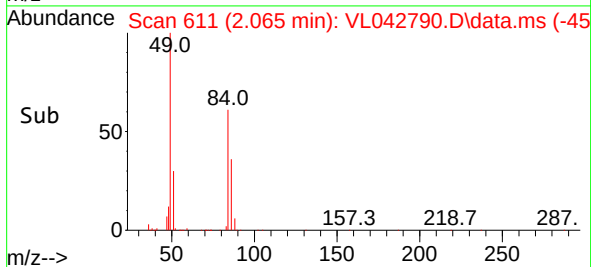
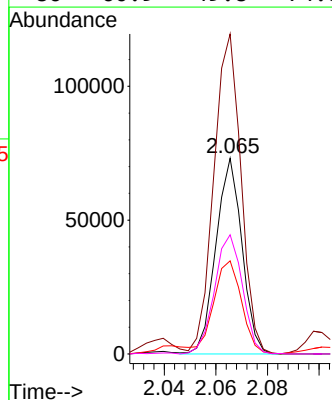
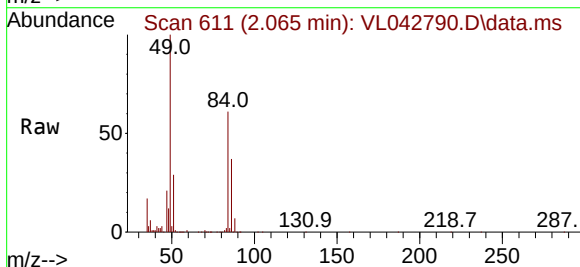
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

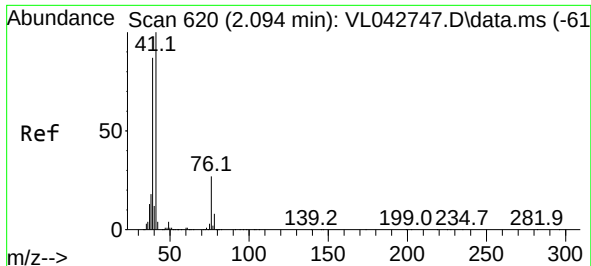
Tgt Ion: 45 Resp: 91274
Ion Ratio Lower Upper
45 100
58 41.3 30.0 45.0



#20
Methylene Chloride
Concen: 8.372 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 84 Resp: 51356
Ion Ratio Lower Upper
84 100
49 163.1 138.6 208.0
51 47.5 40.6 61.0
86 60.9 49.8 74.8

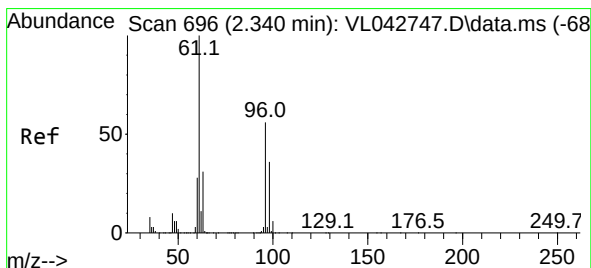
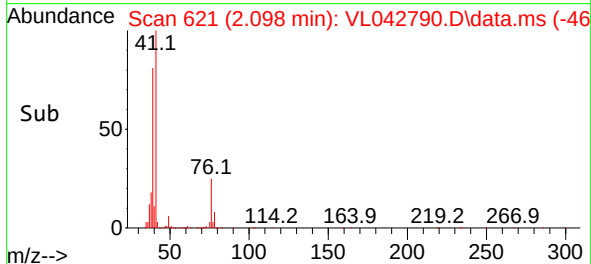
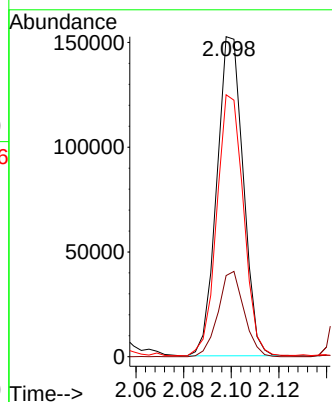
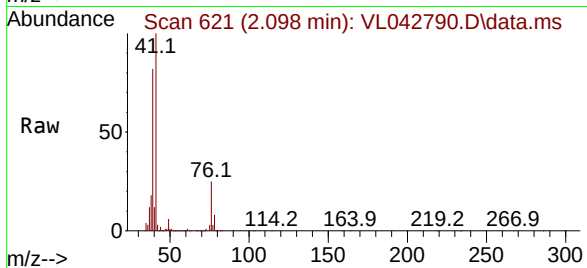




#21
 Allyl Chloride
 Concen: 9.776 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

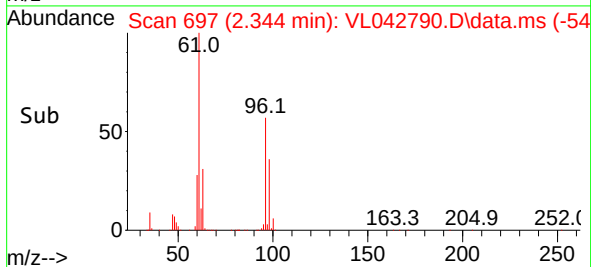
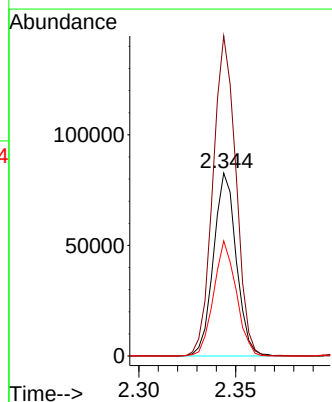
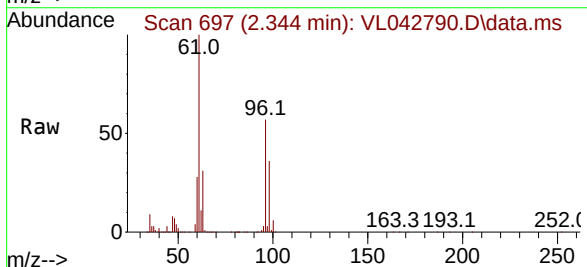
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

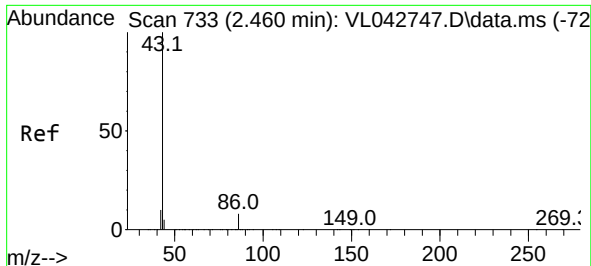
Tgt Ion: 41 Resp: 117287
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 82.6 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.517 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 96 Resp: 67541
 Ion Ratio Lower Upper
 96 100
 61 175.0 142.3 213.5
 98 62.9 50.6 76.0



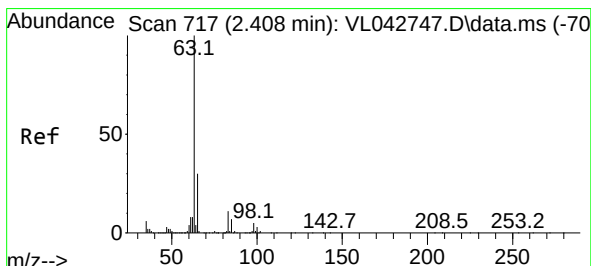
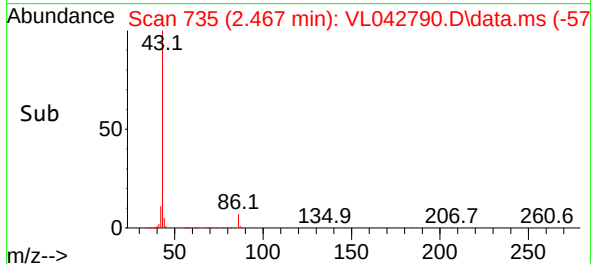
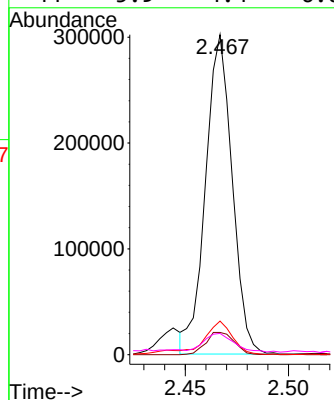
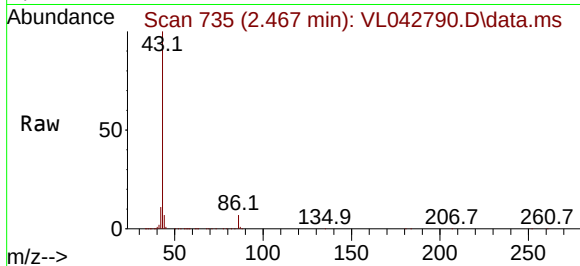


#23
 Vinyl Acetate
 Concen: 11.460 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 43 Resp: 270452

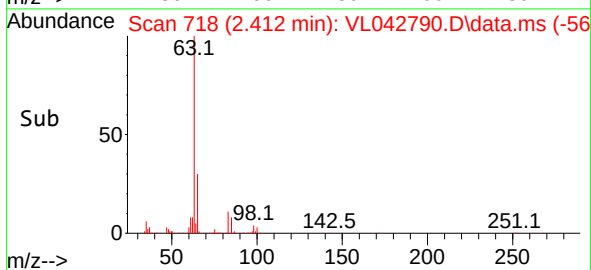
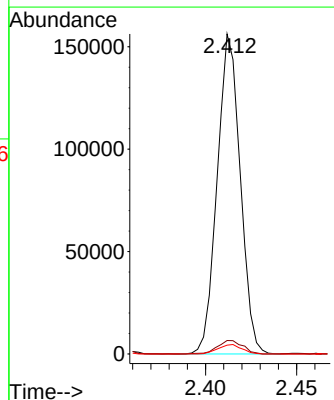
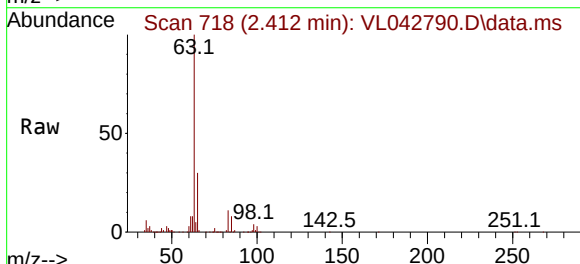
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.1	9.1
42	10.4	7.8	11.8
44	5.9	4.4	6.6

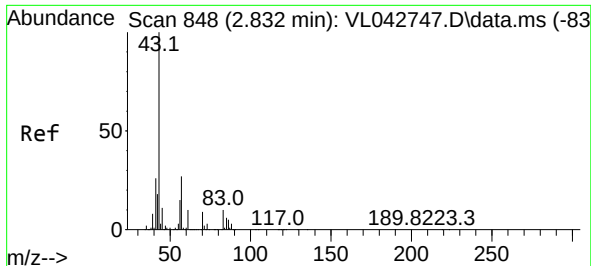


#24
 1,1-Dichloroethane
 Concen: 9.423 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 63 Resp: 137263

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.5	7.4
100	2.8	1.6	4.8

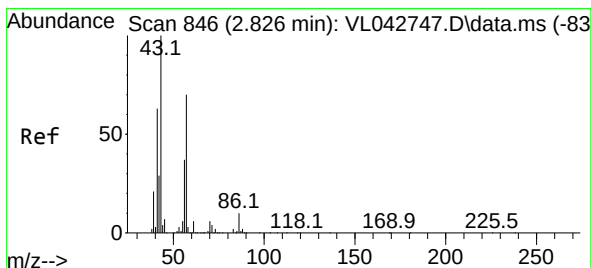
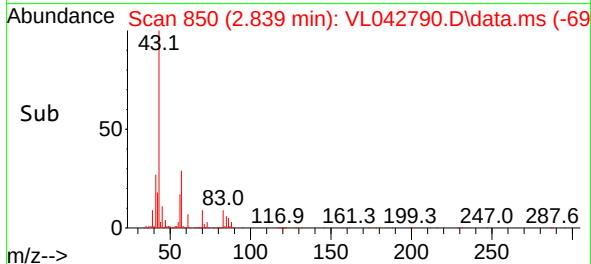
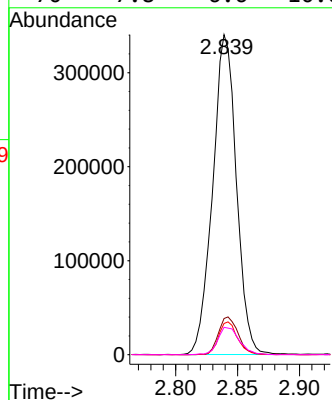
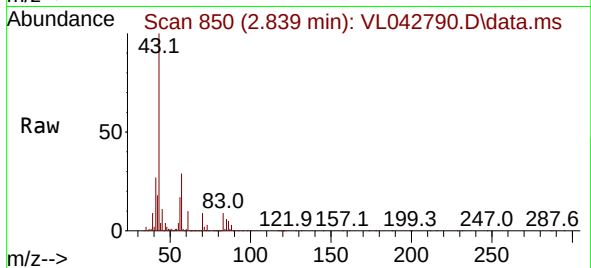




#25
Ethyl Acetate
Concen: 10.526 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

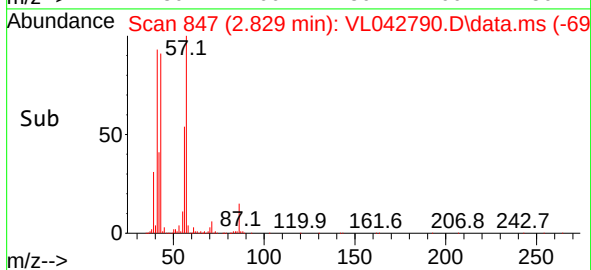
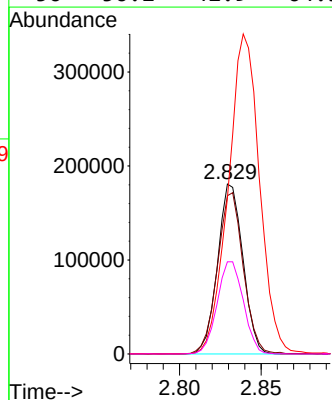
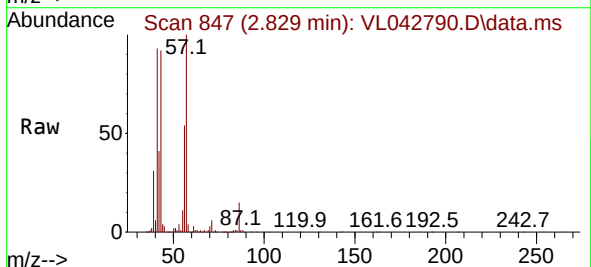
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

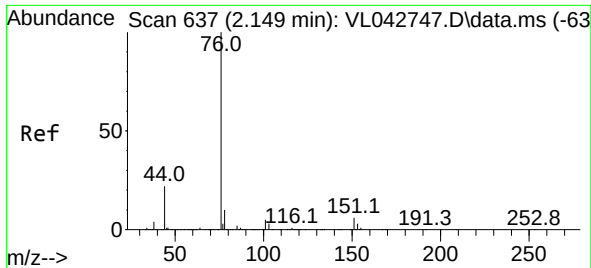
Tgt Ion: 43	Resp: 453552
Ion Ratio	Lower Upper
43 100	
45 9.9	7.8 11.6
61 8.3	6.7 10.1
70 7.8	6.6 10.0



#26
Hexane
Concen: 10.318 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 57	Resp: 195021
Ion Ratio	Lower Upper
57 100	
41 97.6	75.4 113.2
43 233.9	185.0 277.6
56 56.2	42.9 64.3

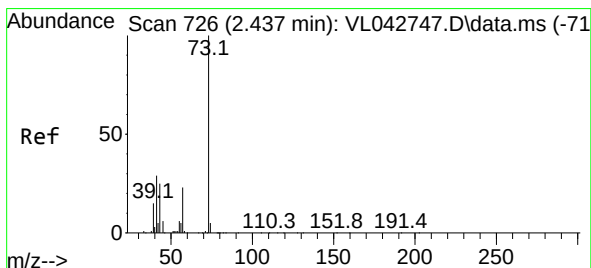
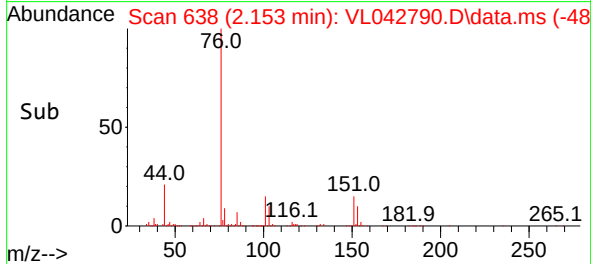
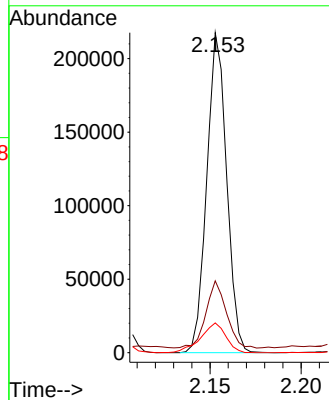
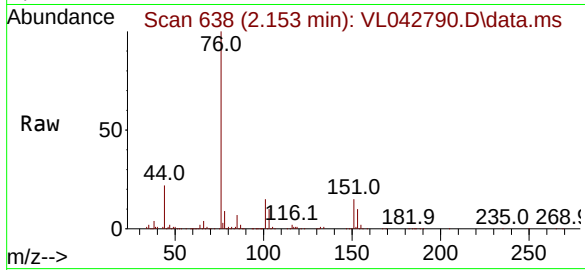




#27
Carbon Disulfide
Concen: 10.216 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

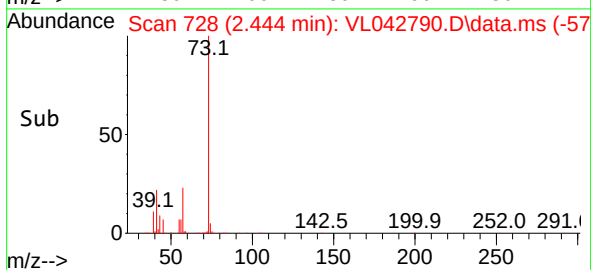
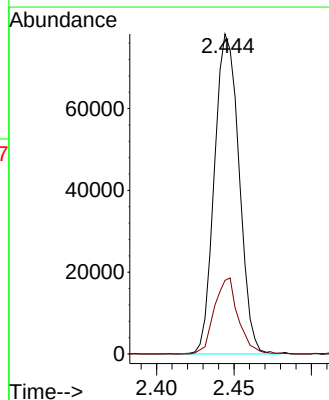
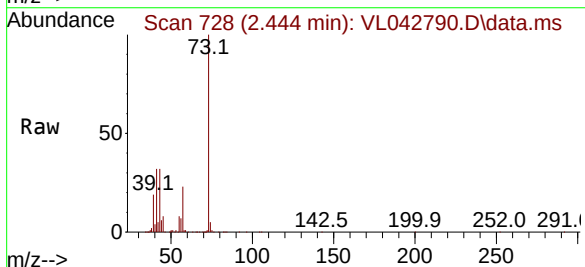
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

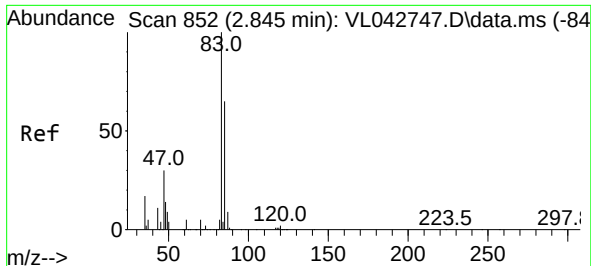
Tgt Ion: 76 Resp: 165318
Ion Ratio Lower Upper
76 100
44 21.3 19.3 28.9
78 11.8 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 9.699 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 73 Resp: 86612
Ion Ratio Lower Upper
73 100
57 23.1 19.8 29.8





#29

Chloroform

Concen: 10.303 ppbv

RT: 2.852 min Scan# 852

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

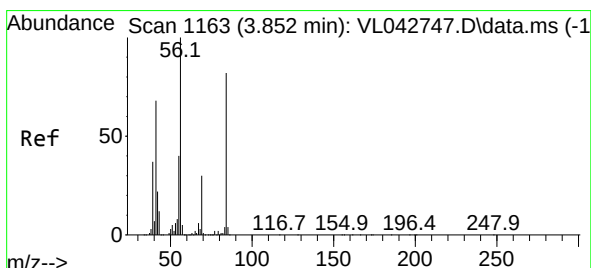
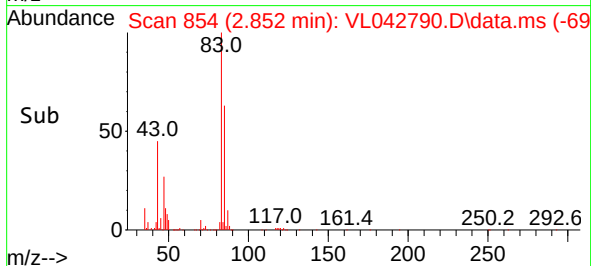
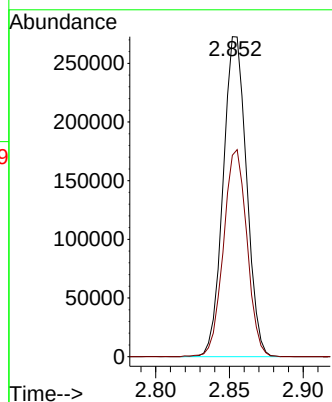
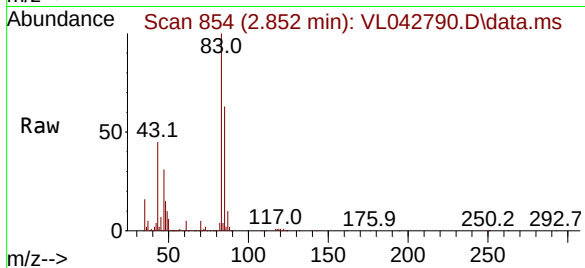
VL0731ABS01

Tgt Ion: 83 Resp: 300921

Ion Ratio Lower Upper

83 100

85 62.9 52.2 78.2



#30

Cyclohexane

Concen: 10.299 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

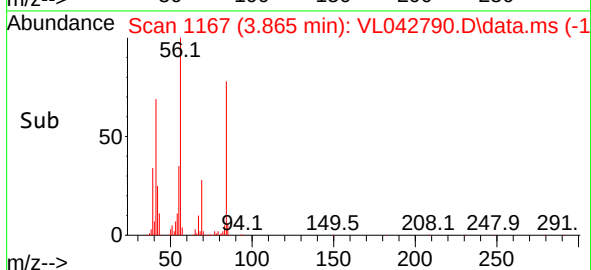
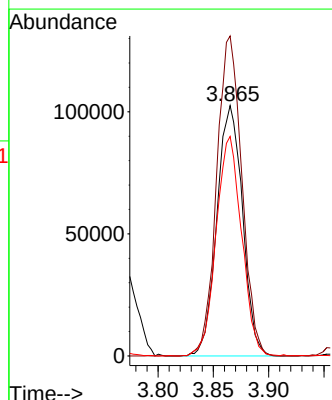
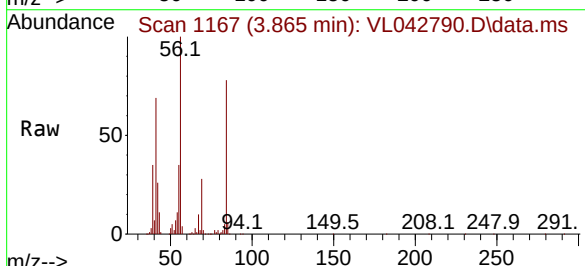
Tgt Ion: 84 Resp: 165101

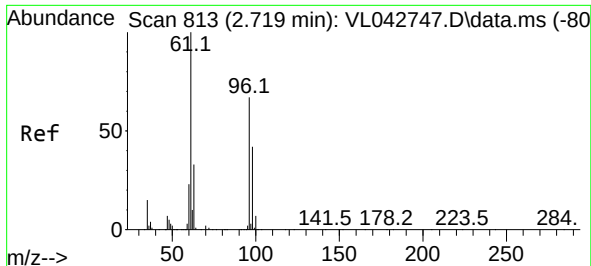
Ion Ratio Lower Upper

84 100

56 125.4 97.5 146.3

41 87.4 67.2 100.8

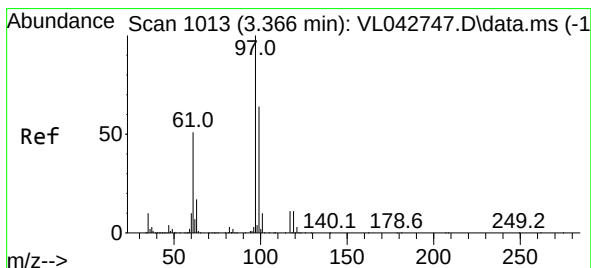
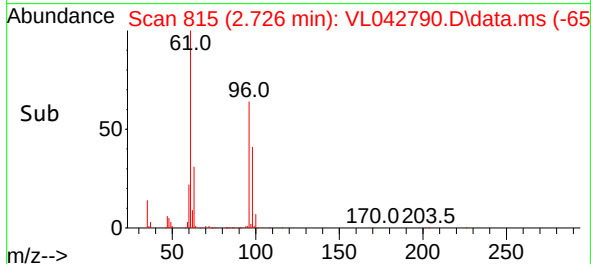
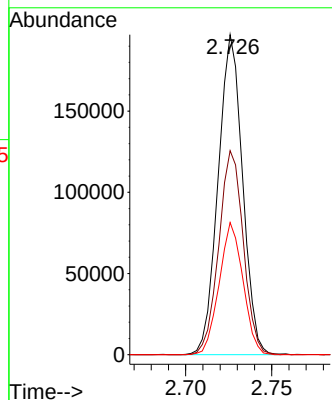
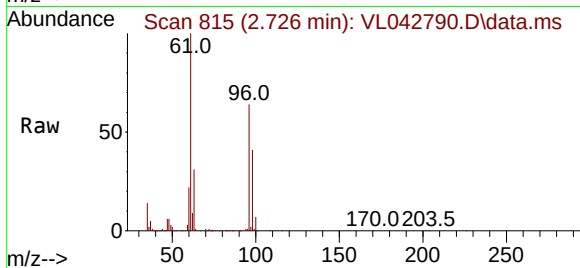




#31
cis-1,2-Dichloroethene
Concen: 10.022 ppbv
RT: 2.726 min Scan# 813
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

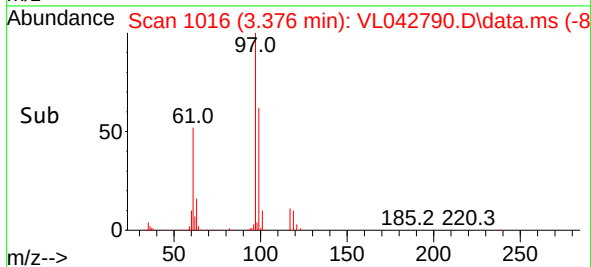
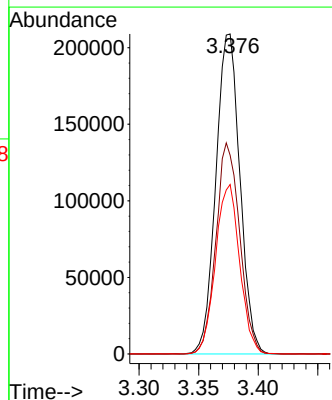
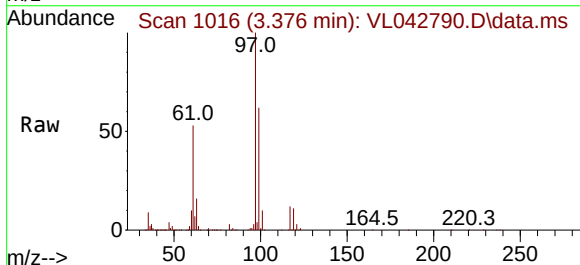
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

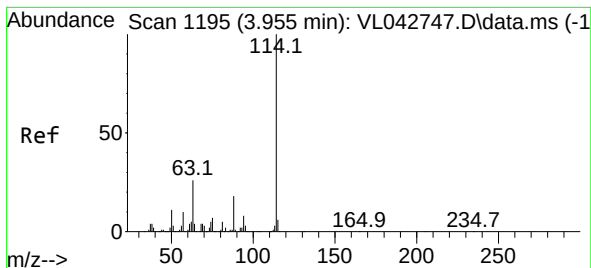
Tgt Ion: 61 Resp: 194661
Ion Ratio Lower Upper
61 100
96 63.8 53.5 80.3
98 41.3 33.6 50.4



#32
1,1,1-Trichloroethane
Concen: 9.647 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 97 Resp: 293497
Ion Ratio Lower Upper
97 100
99 65.1 51.0 76.6
61 53.3 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

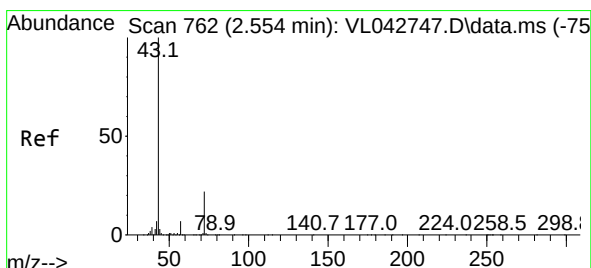
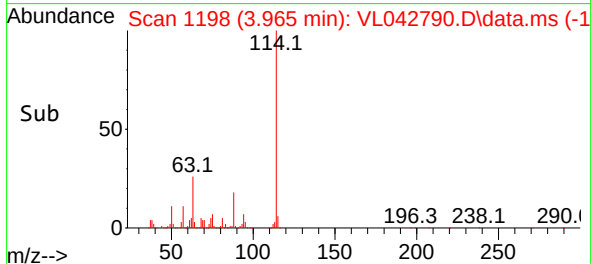
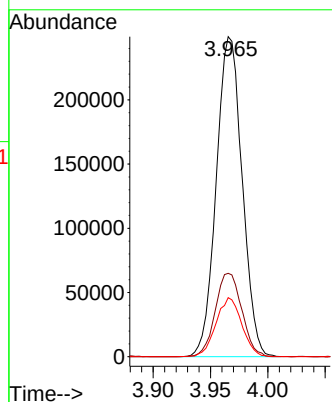
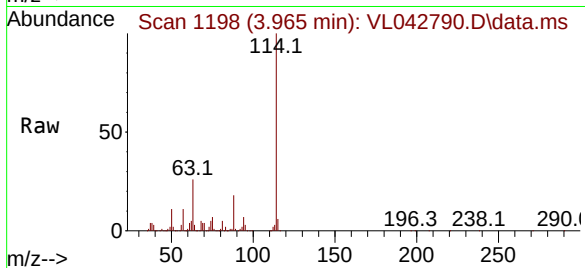
Tgt Ion:114 Resp: 391458

Ion Ratio Lower Upper

114 100

63 26.7 20.5 30.7

88 18.4 14.0 21.0



#34

2-Butanone

Concen: 10.758 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.007 min

Lab File: VL042790.D

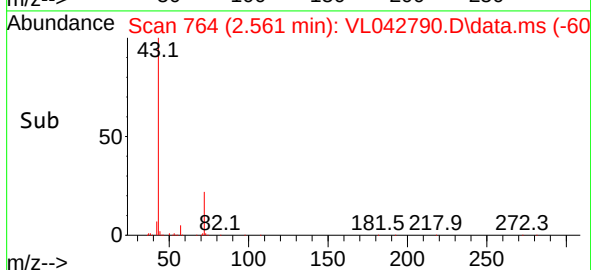
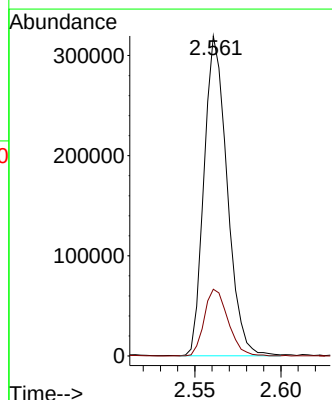
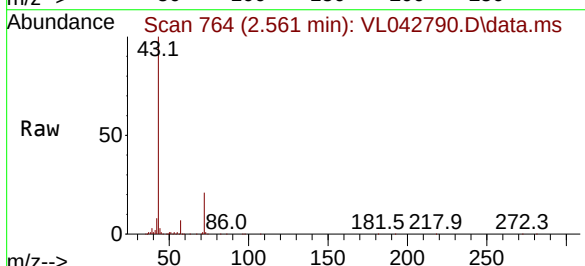
Acq: 31 Jul 2025 10:15

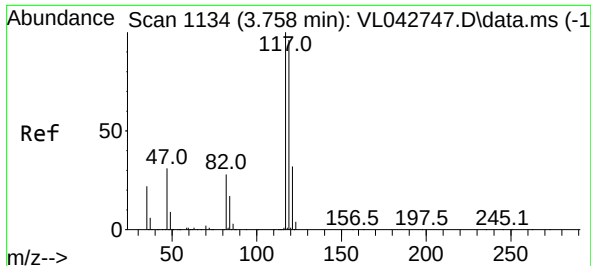
Tgt Ion: 43 Resp: 298296

Ion Ratio Lower Upper

43 100

72 21.6 17.4 26.0

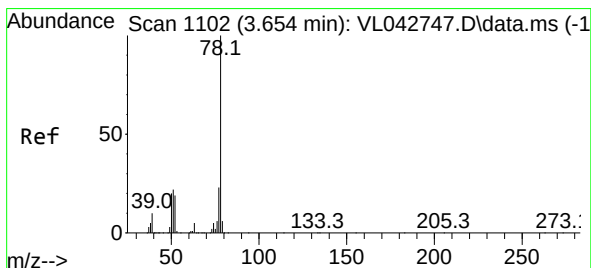
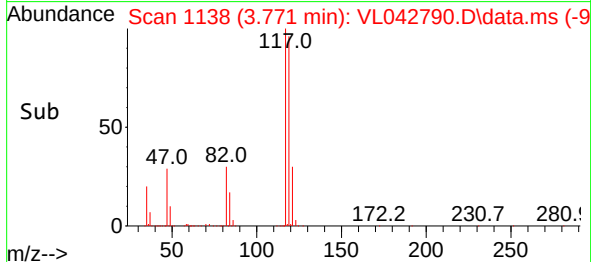
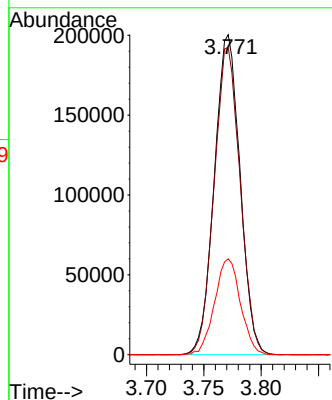
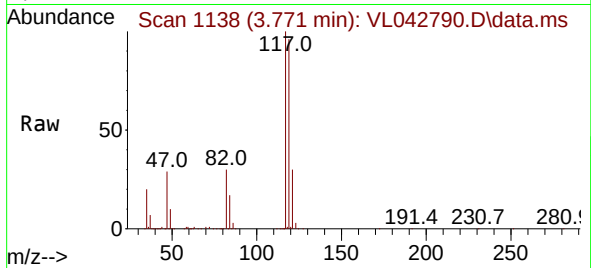




#35
Carbon Tetrachloride
Concen: 10.748 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

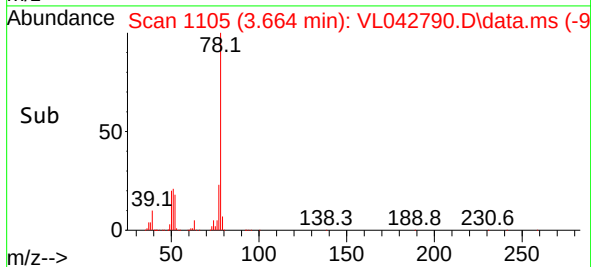
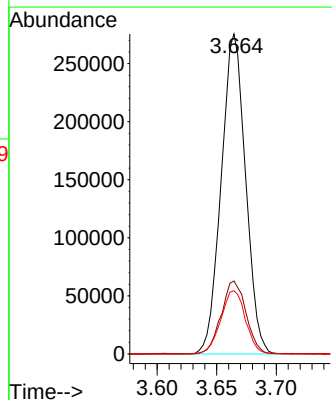
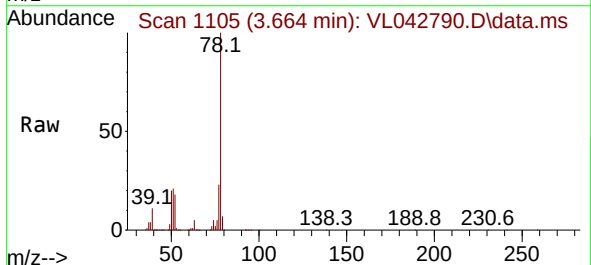
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

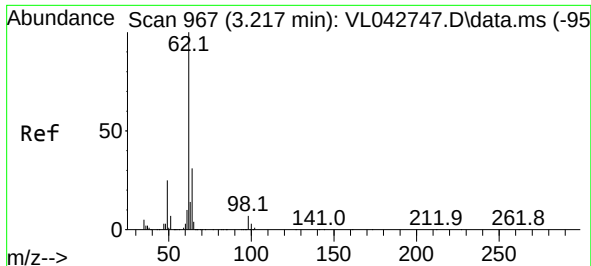
Tgt Ion:117 Resp: 312530
Ion Ratio Lower Upper
117 100
119 96.1 77.1 115.7
121 30.0 25.5 38.3



#36
Benzene
Concen: 10.536 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 78 Resp: 390877
Ion Ratio Lower Upper
78 100
77 22.7 18.5 27.7
50 19.8 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.589 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

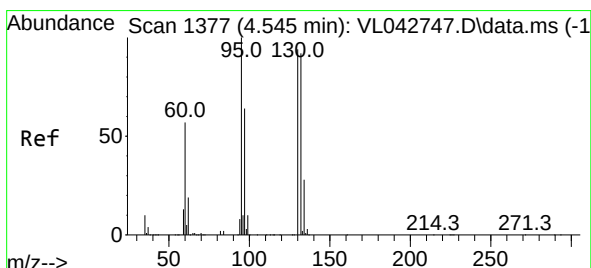
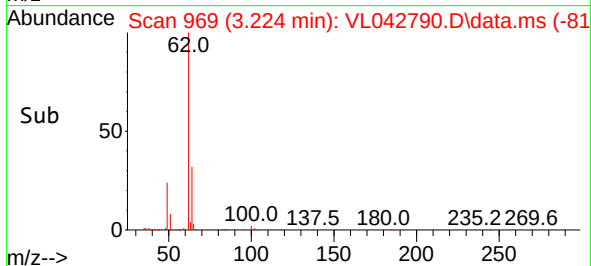
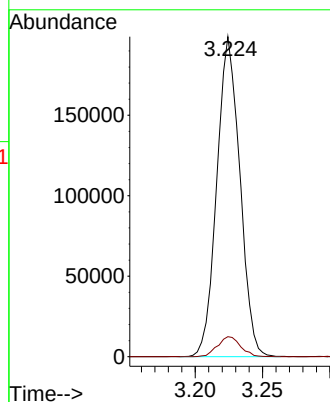
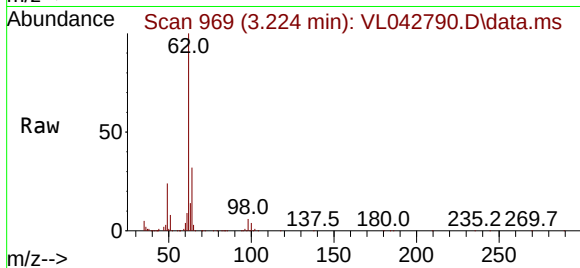
VL0731ABS01

Tgt Ion: 62 Resp: 236656

Ion Ratio Lower Upper

62 100

98 6.2 5.2 7.8



#38

Trichloroethene

Concen: 9.776 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:130 Resp: 174246

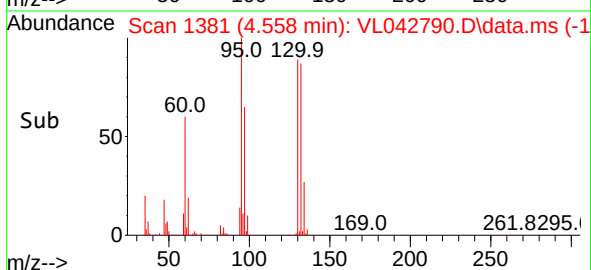
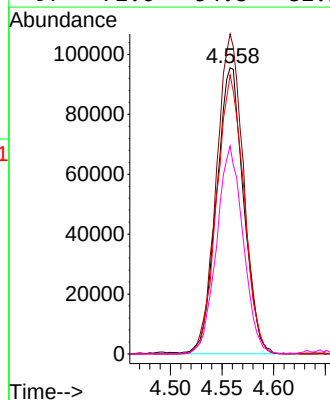
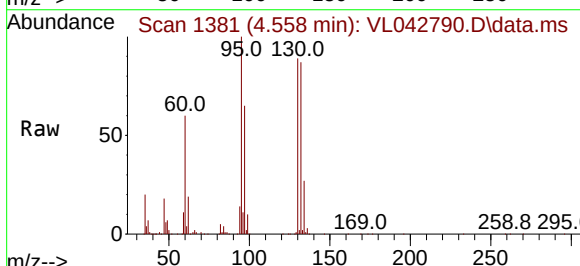
Ion Ratio Lower Upper

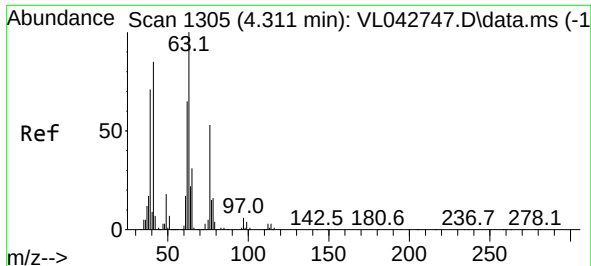
130 100

95 111.7 85.4 128.2

132 97.5 78.2 117.2

97 72.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.536 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

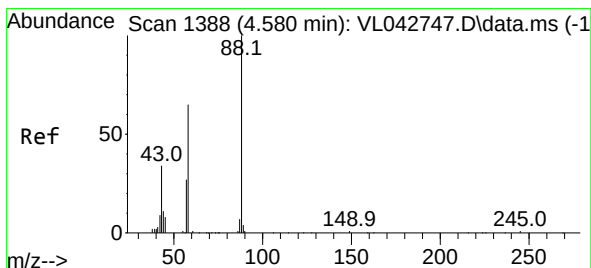
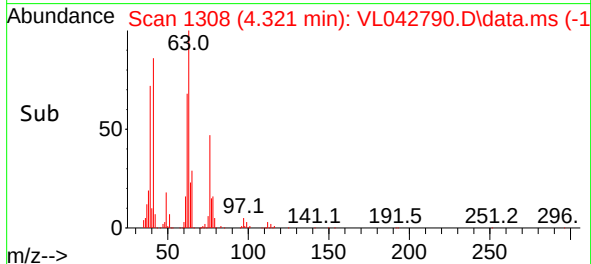
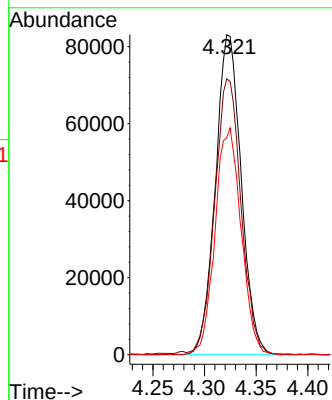
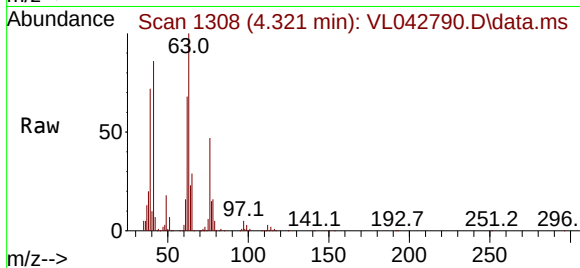
Tgt Ion: 63 Resp: 144288

Ion Ratio Lower Upper

63 100

41 86.0 68.2 102.4

62 67.8 52.0 78.0



#40

1,4-Dioxane

Concen: 8.594 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion: 88 Resp: 54856

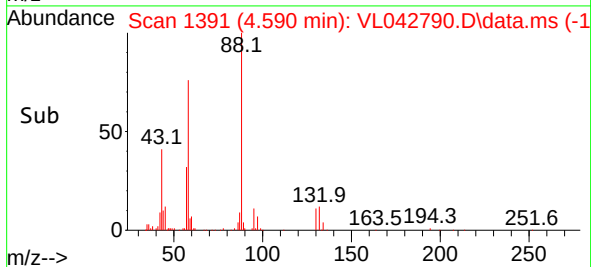
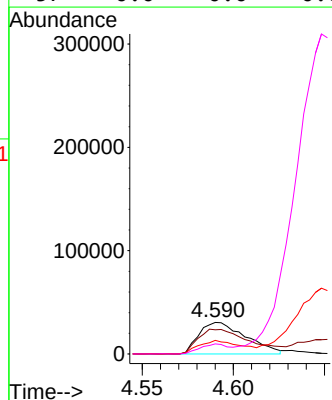
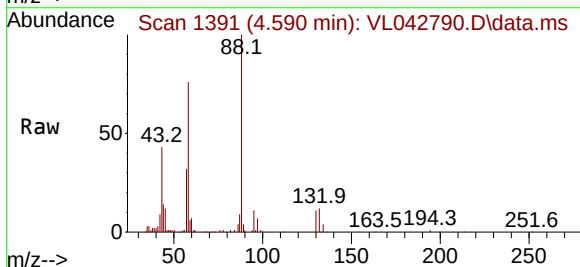
Ion Ratio Lower Upper

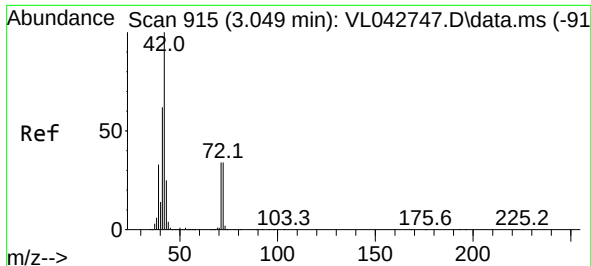
88 100

58 85.8 58.8 88.2

43 34.3 28.9 43.3

57 0.0 0.0 0.0

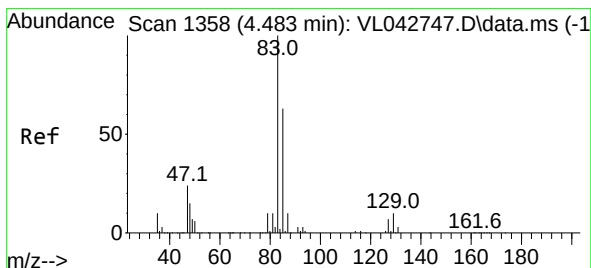
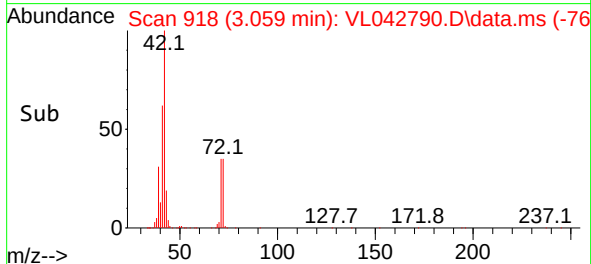
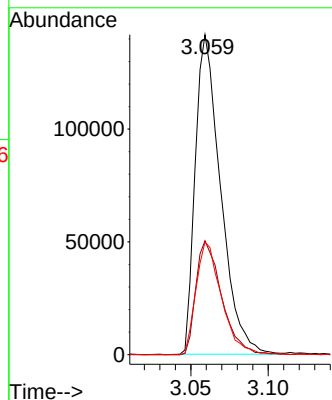
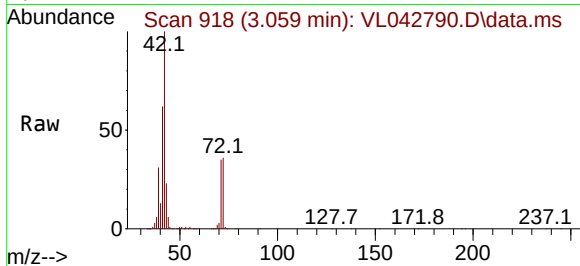




#41
Tetrahydrofuran
Concen: 11.448 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

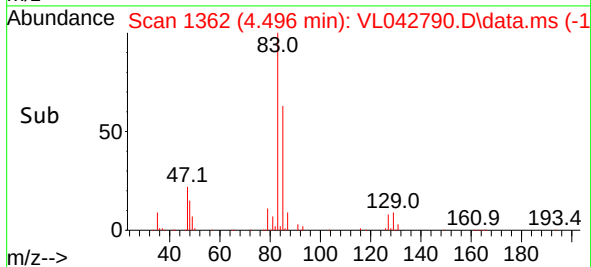
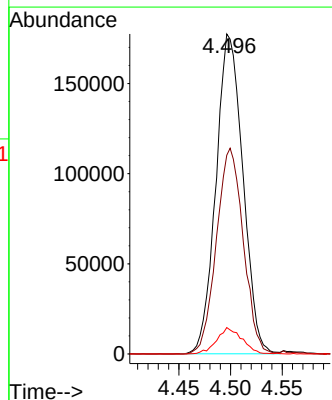
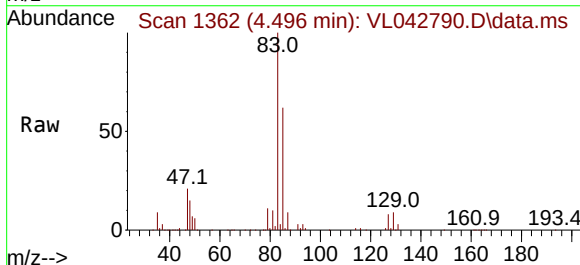
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

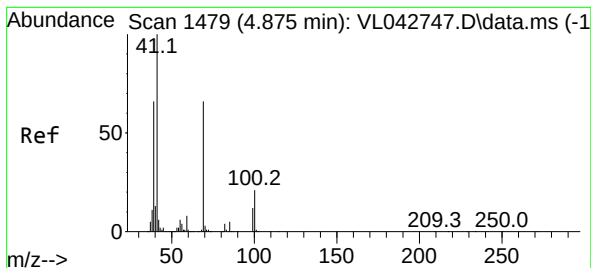
Tgt Ion: 42 Resp: 161537
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 35.5 28.6 43.0



#42
Bromodichloromethane
Concen: 11.059 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 83 Resp: 321891
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.2 5.4 8.2#





#43

Methyl Methacrylate

Concen: 11.512 ppbv

RT: 4.888 min Scan# 1479

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

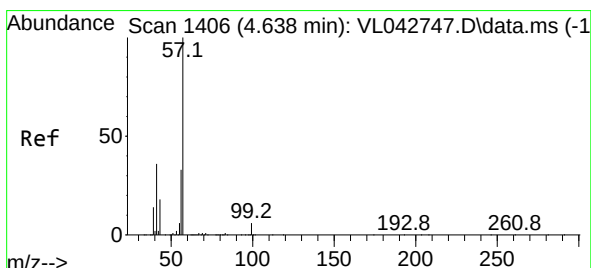
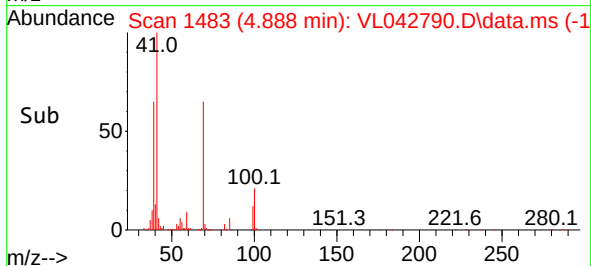
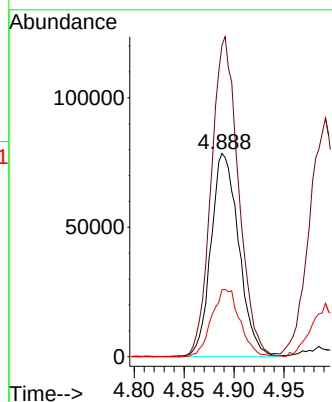
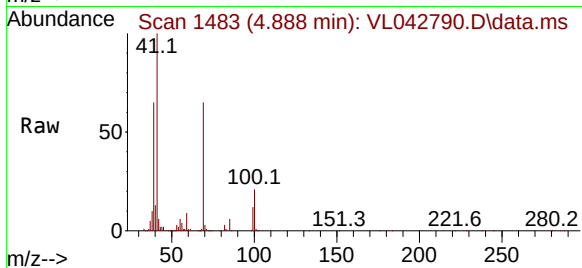
Tgt Ion: 69 Resp: 151803

Ion Ratio Lower Upper

69 100

41 154.2 125.7 188.5

100 33.8 28.6 42.8



#44

2,2,4-Trimethylpentane

Concen: 11.121 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

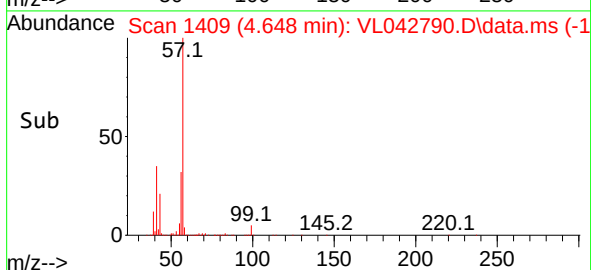
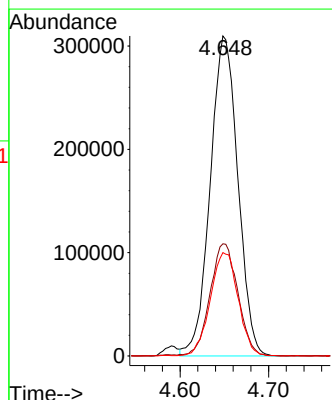
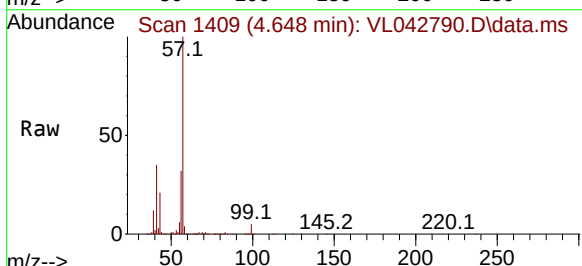
Tgt Ion: 57 Resp: 672509

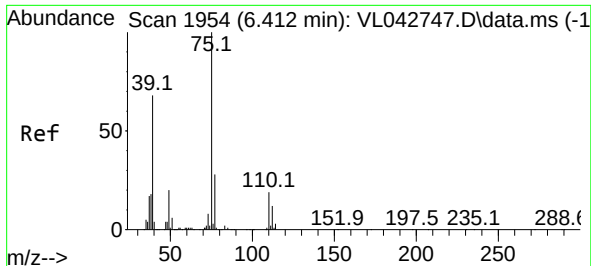
Ion Ratio Lower Upper

57 100

41 35.5 28.3 42.5

56 32.7 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 11.199 ppbv

RT: 6.425 min Scan# 1954

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

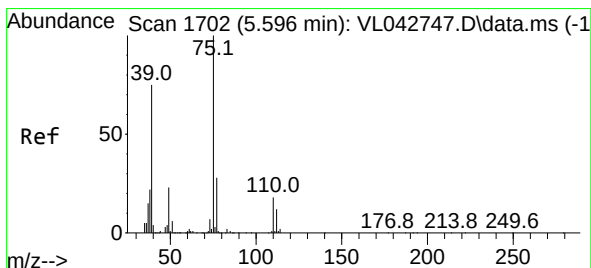
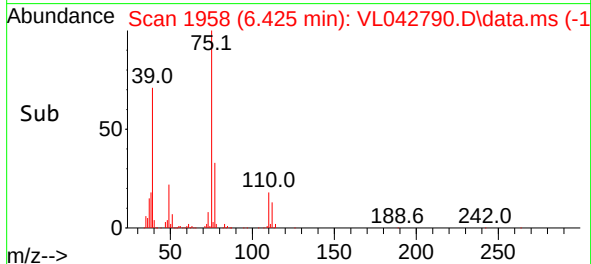
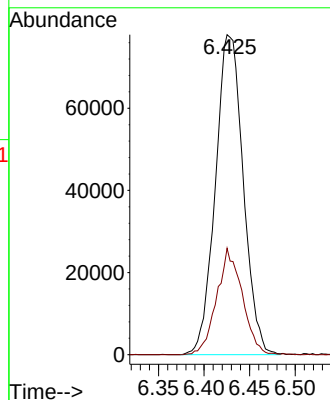
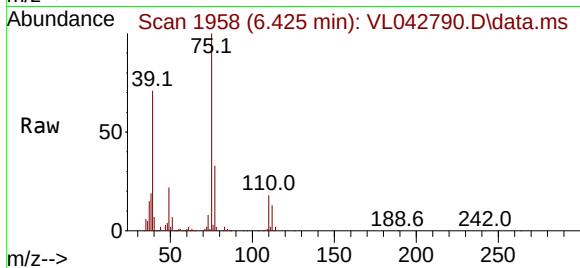
VL0731ABS01

Tgt Ion: 75 Resp: 165606

Ion Ratio Lower Upper

75 100

77 33.3 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 11.143 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.016 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

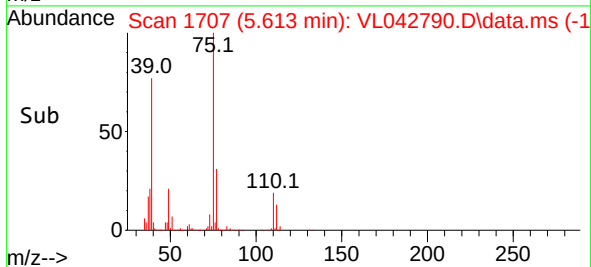
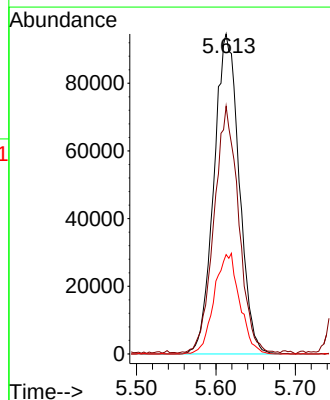
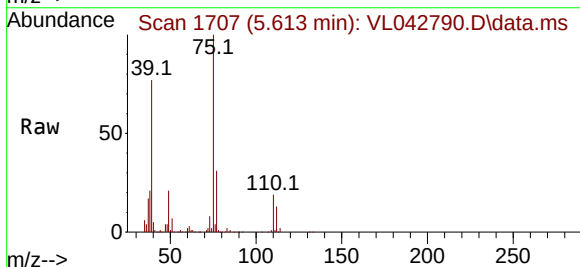
Tgt Ion: 75 Resp: 208804

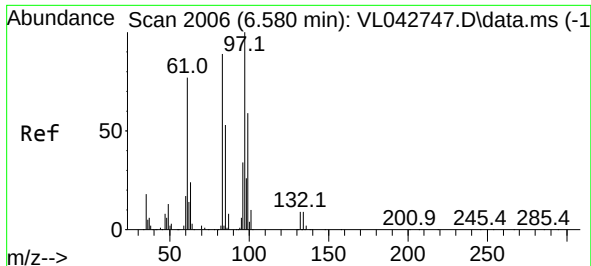
Ion Ratio Lower Upper

75 100

39 77.0 60.2 90.2

77 31.0 22.6 34.0

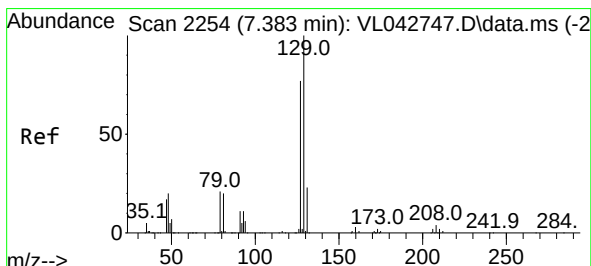
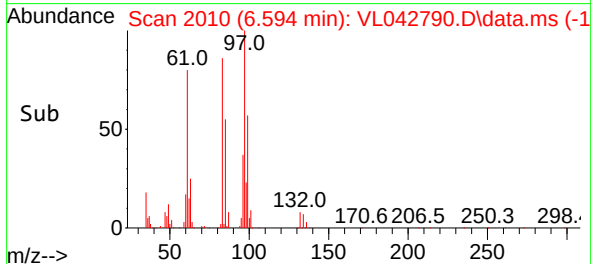
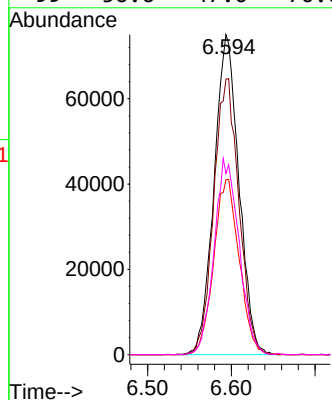
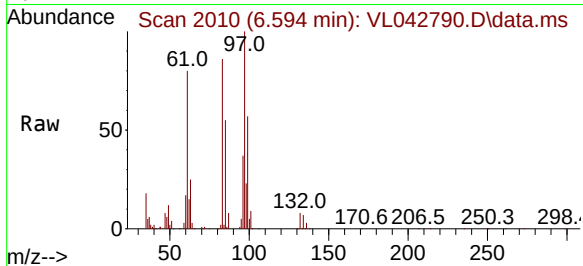




#47
1,1,2-Trichloroethane
Concen: 10.587 ppbv
RT: 6.594 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

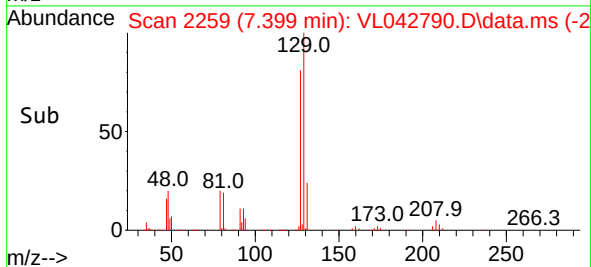
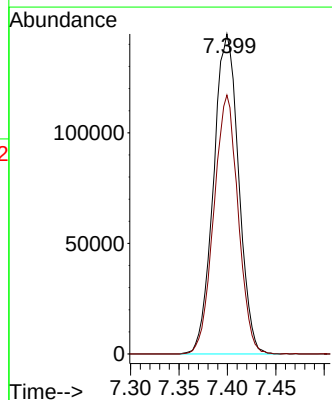
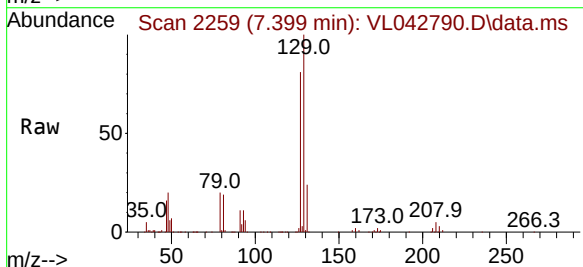
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

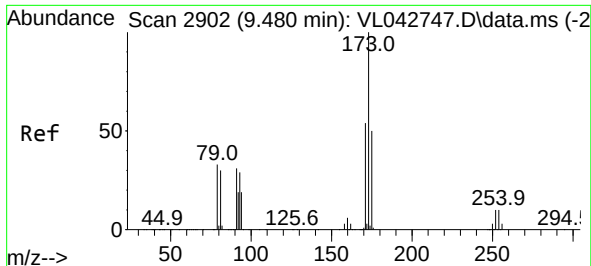
Tgt Ion: 97 Resp: 154552
Ion Ratio Lower Upper
97 100
83 86.1 71.1 106.7
85 54.7 43.0 64.4
99 56.6 47.0 70.6



#48
Dibromochloromethane
Concen: 11.278 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 129 Resp: 261380
Ion Ratio Lower Upper
129 100
127 78.2 38.7 116.1

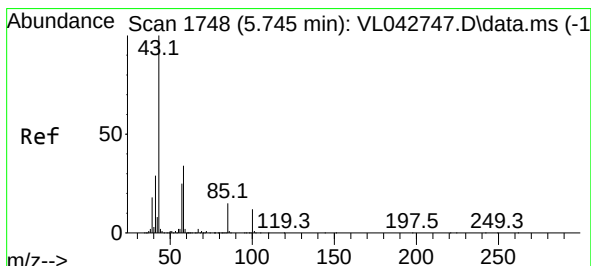
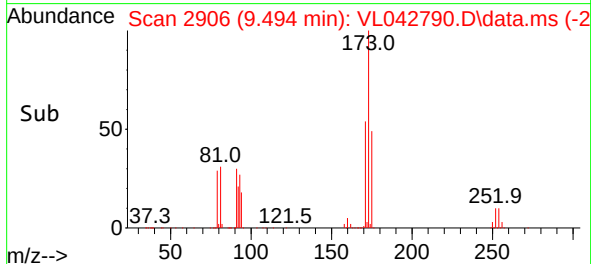
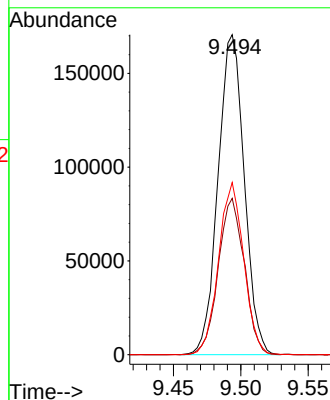
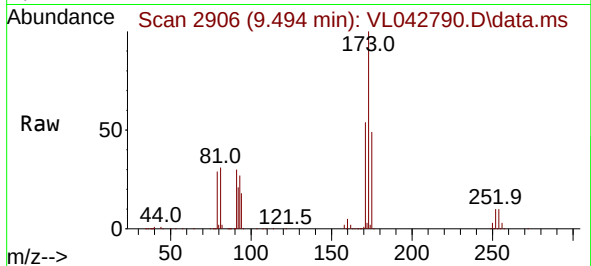




#49
Bromoform
Concen: 11.433 ppbv
RT: 9.494 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

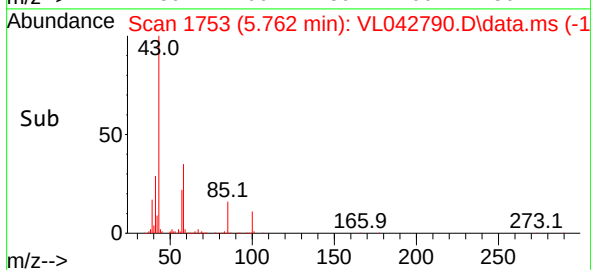
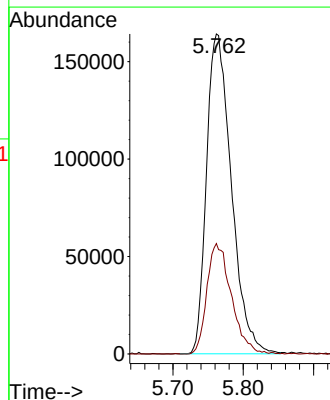
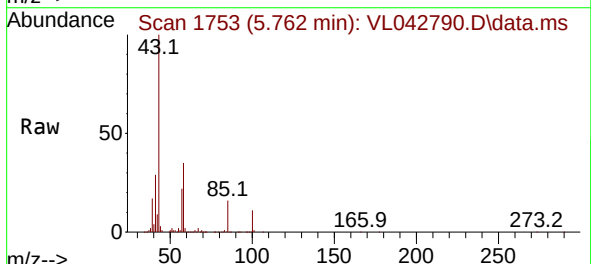
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

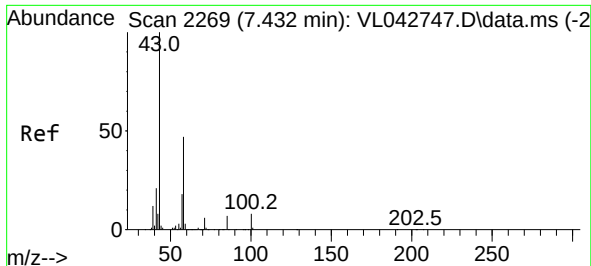
Tgt Ion:173 Resp: 231022
Ion Ratio Lower Upper
173 100
175 48.6 38.4 57.6
171 51.8 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 11.270 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 43 Resp: 402543
Ion Ratio Lower Upper
43 100
58 34.0 27.8 41.8

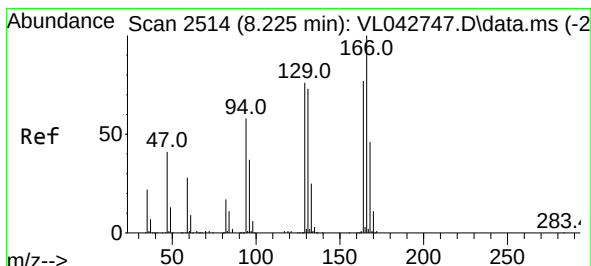
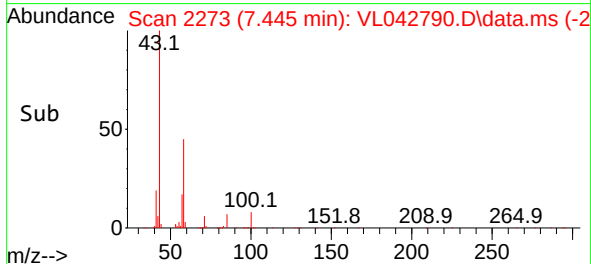
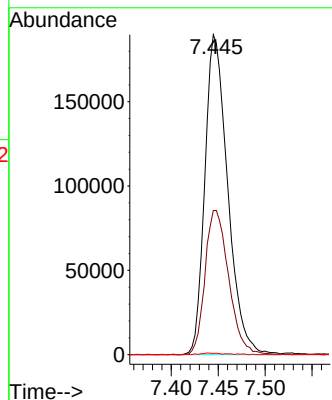
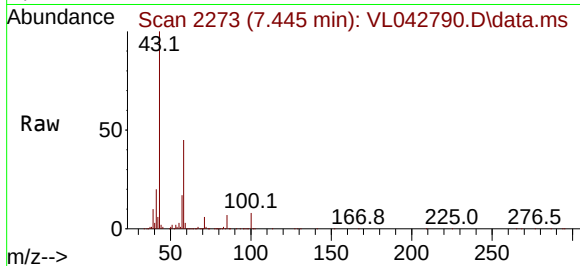




#51
2-Hexanone
Concen: 11.895 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

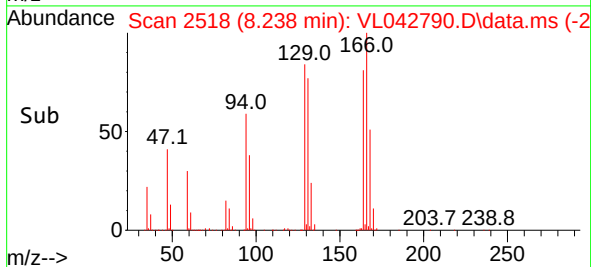
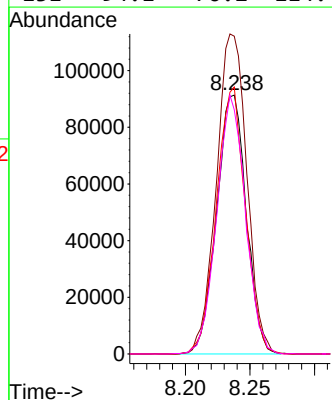
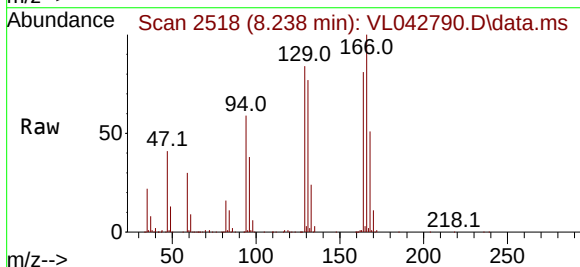
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

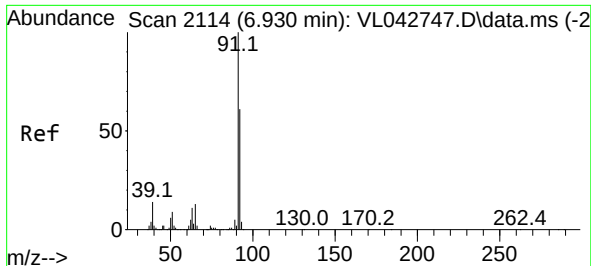
Tgt Ion: 43 Resp: 321076
Ion Ratio Lower Upper
43 100
58 46.7 38.0 57.0
98 0.6 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.479 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:164 Resp: 145761
Ion Ratio Lower Upper
164 100
166 122.6 104.0 156.0
129 103.0 79.2 118.8
131 94.1 76.2 114.4

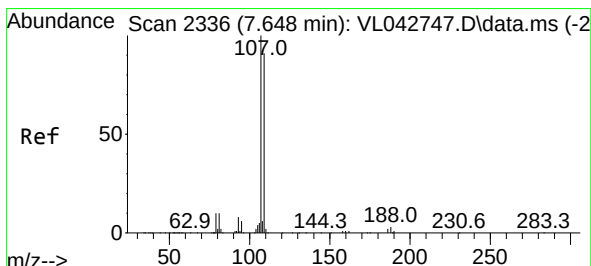
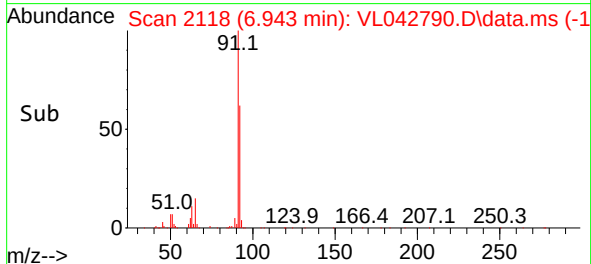
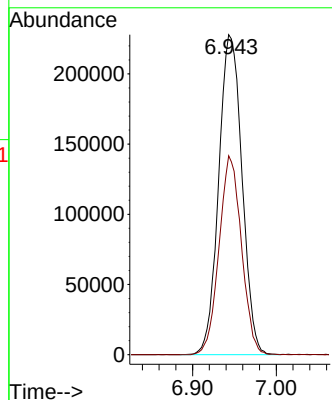
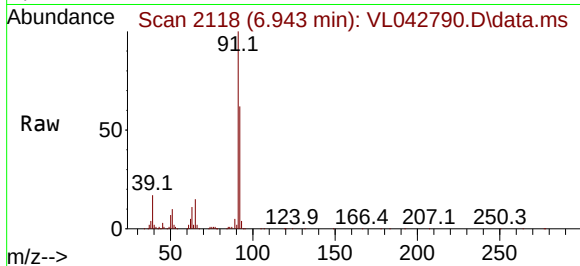




#53
Toluene
Concen: 11.041 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

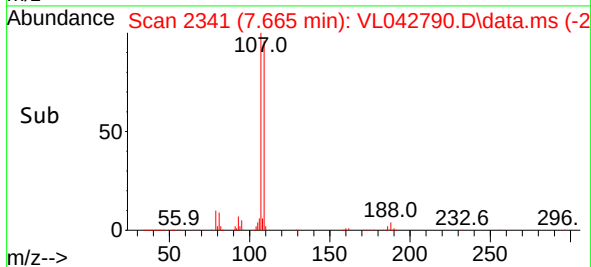
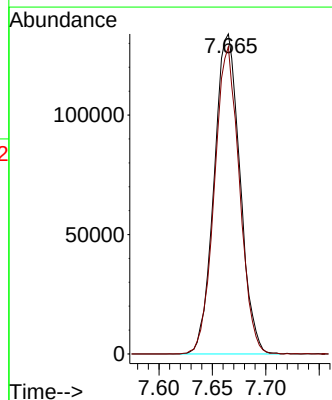
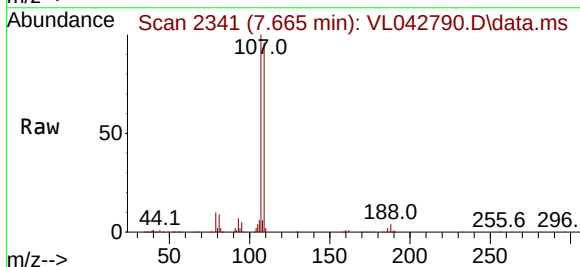
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

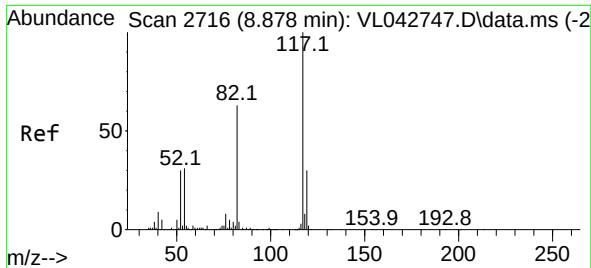
Tgt Ion: 91 Resp: 439867
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0



#54
1,2-Dibromoethane
Concen: 10.928 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 107 Resp: 225399
Ion Ratio Lower Upper
107 100
109 95.9 72.7 109.1

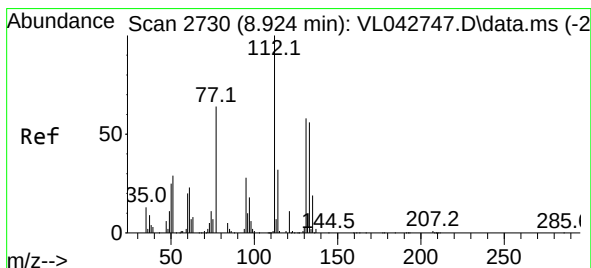
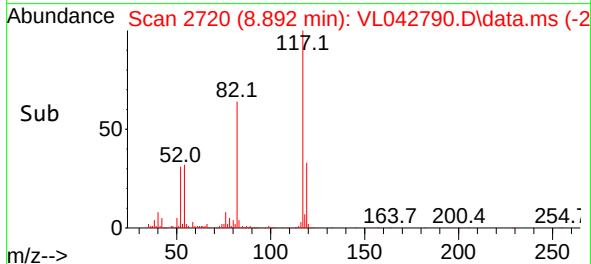
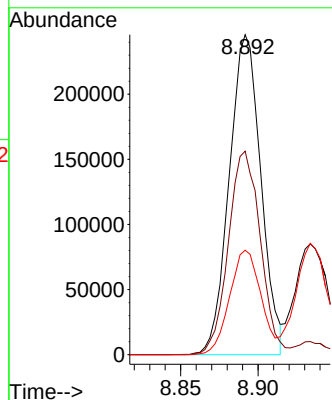
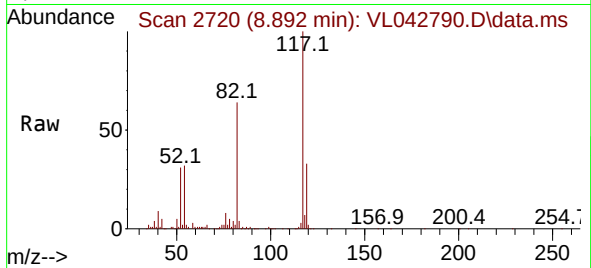




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

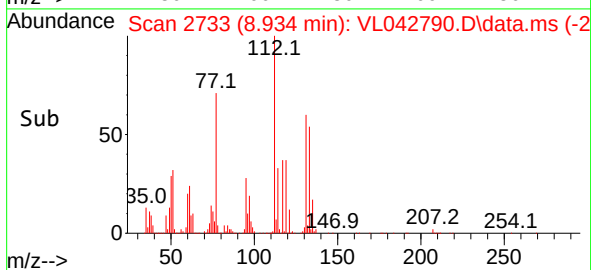
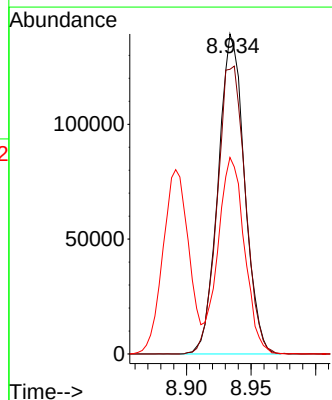
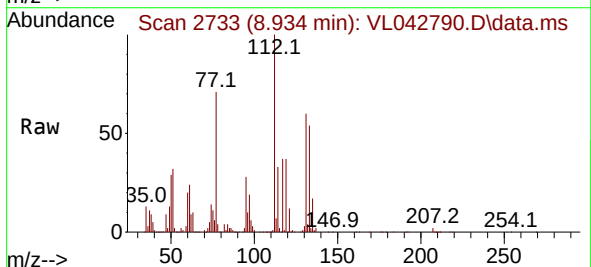
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

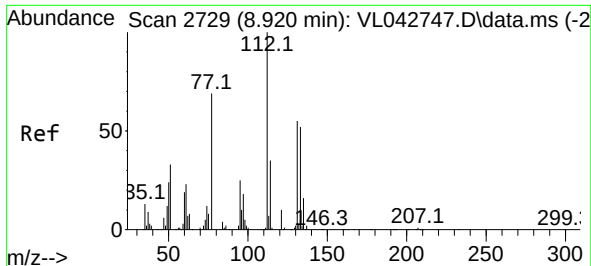
Tgt Ion:117 Resp: 349880
Ion Ratio Lower Upper
117 100
82 68.2 53.3 79.9
119 32.9 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 10.906 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:131 Resp: 198394
Ion Ratio Lower Upper
131 100
133 95.3 76.8 115.2
119 62.0 49.7 74.5





#57

Chlorobenzene

Concen: 10.386 ppbv

RT: 8.930 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

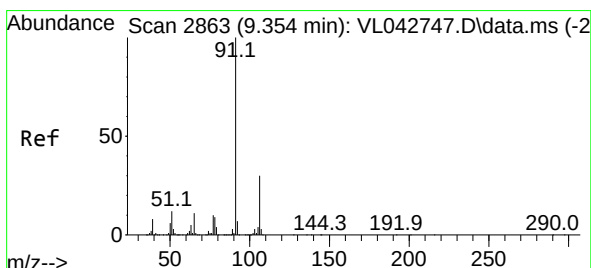
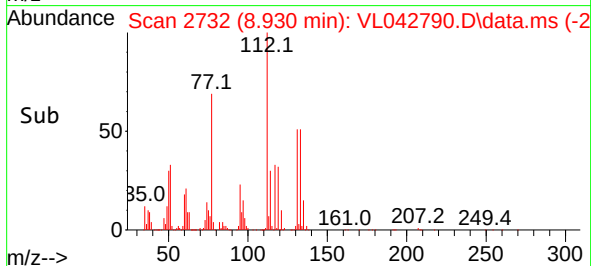
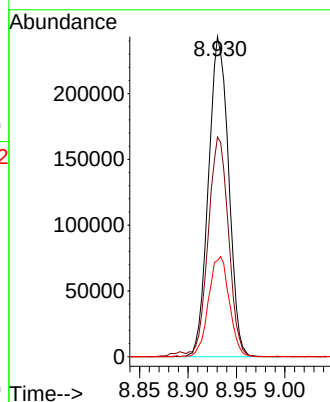
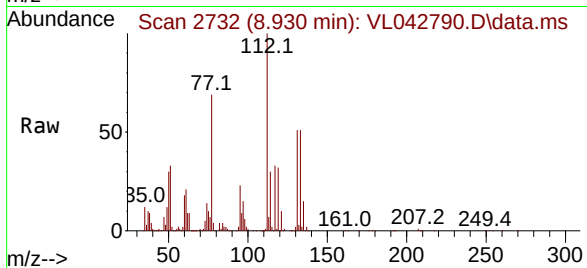
Tgt Ion:112 Resp: 351678

Ion Ratio Lower Upper

112 100

77 68.6 56.4 84.6

114 30.0 31.2 38.2#



#58

Ethyl Benzene

Concen: 11.121 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.010 min

Lab File: VL042790.D

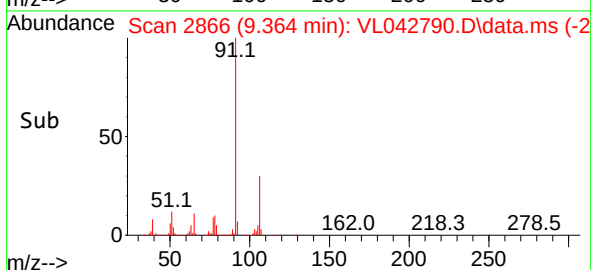
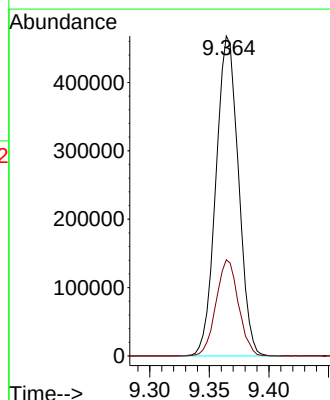
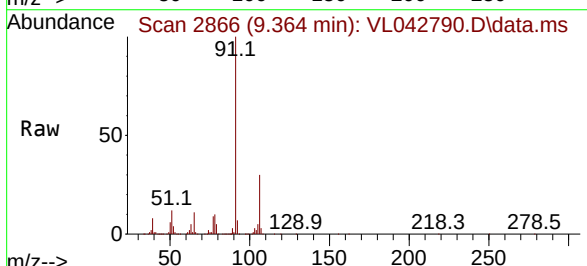
Acq: 31 Jul 2025 10:15

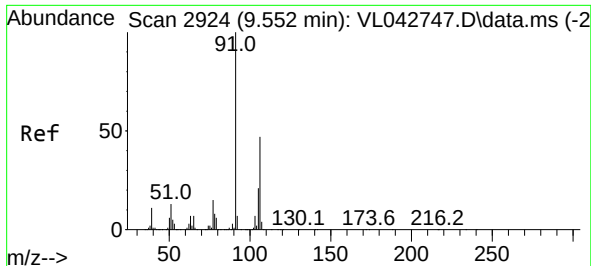
Tgt Ion: 91 Resp: 614495

Ion Ratio Lower Upper

91 100

106 30.1 23.8 35.6





#59

m/p-Xylene

Concen: 10.516 ppbv

RT: 9.562 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

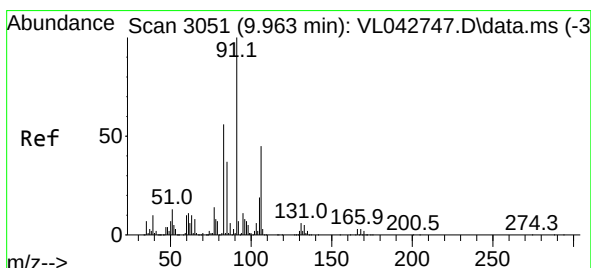
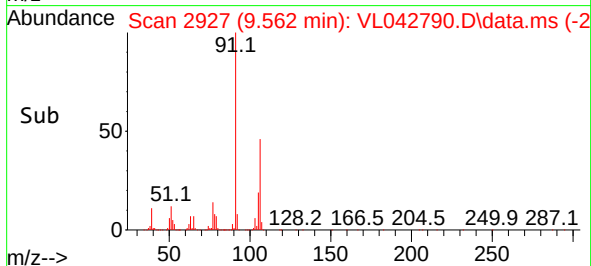
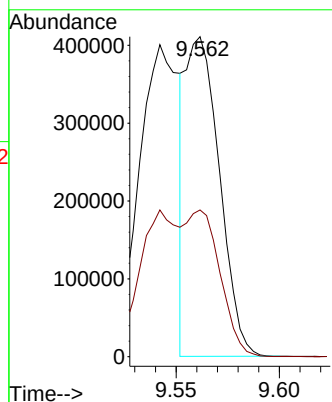
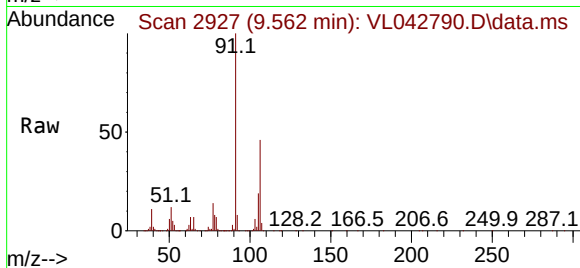
VL0731ABS01

Tgt Ion: 91 Resp: 464380

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 11.188 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL042790.D

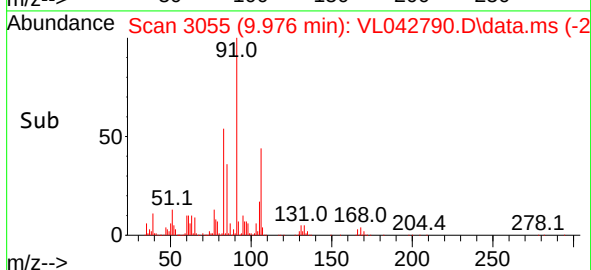
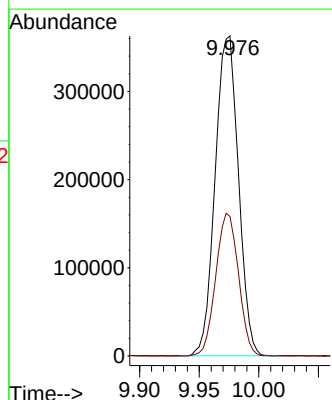
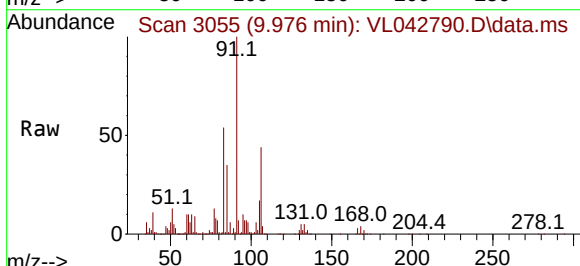
Acq: 31 Jul 2025 10:15

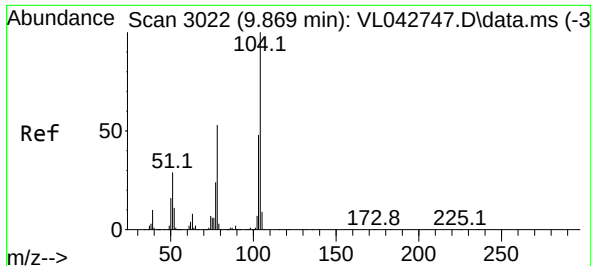
Tgt Ion: 91 Resp: 493686

Ion Ratio Lower Upper

91 100

106 43.5 22.0 66.0

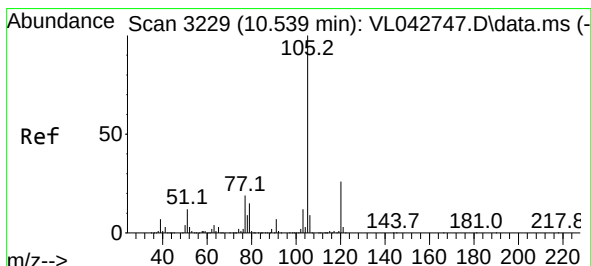
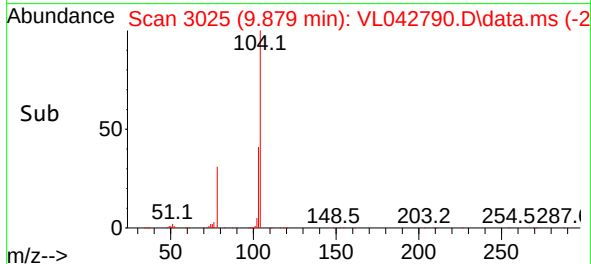
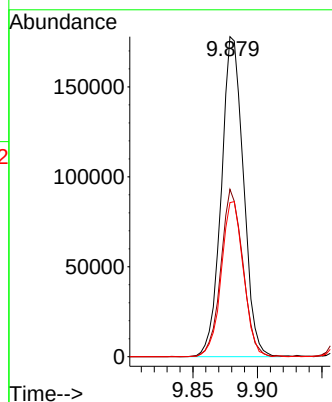
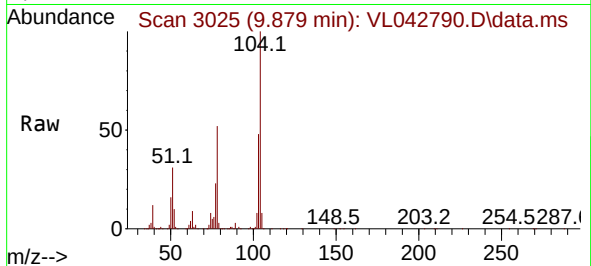




#61
Styrene
Concen: 11.406 ppbv
RT: 9.879 min Scan# 3022
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

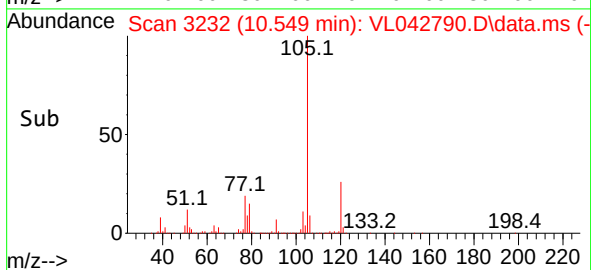
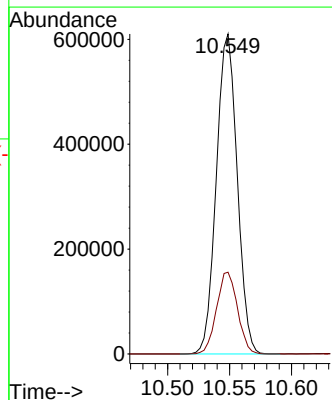
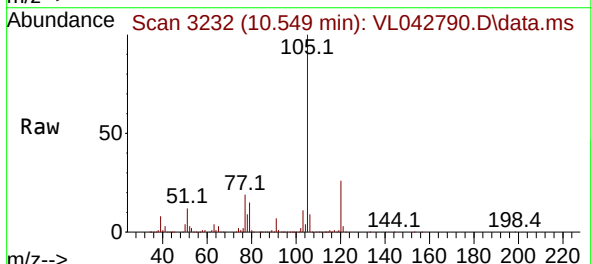
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

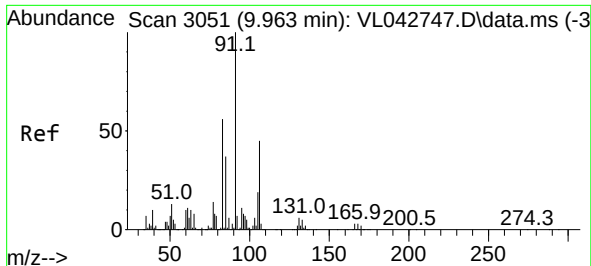
Tgt Ion:104 Resp: 211712
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 48.8 37.5 56.3



#62
Isopropylbenzene
Concen: 11.007 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 716413
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7

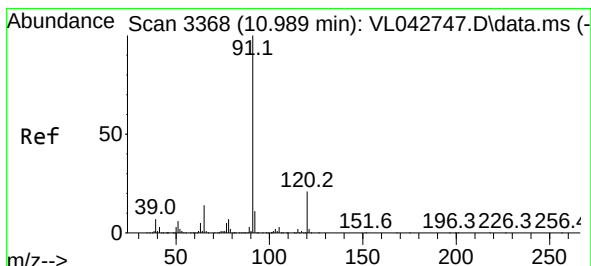
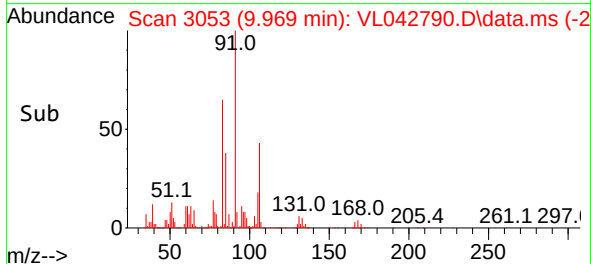
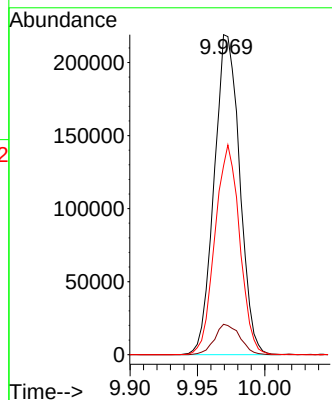
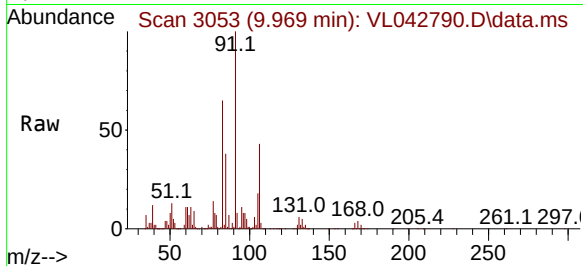




#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.176 ppbv
 RT: 9.969 min Scan# 3051
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

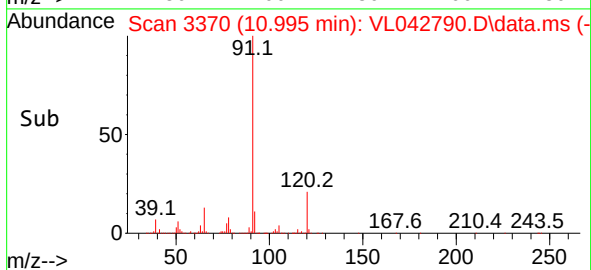
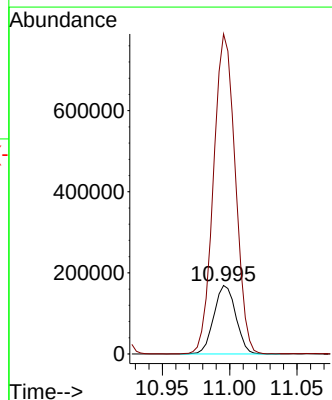
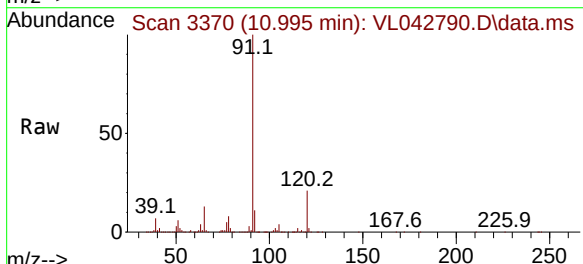
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

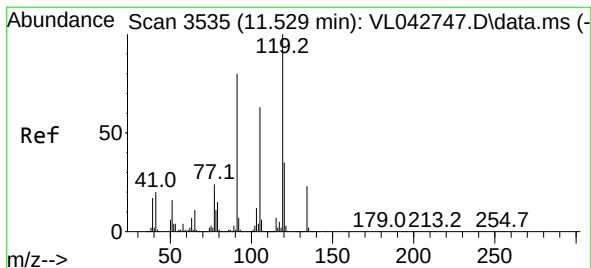
Tgt Ion: 83 Resp: 288264
 Ion Ratio Lower Upper
 83 100
 131 9.5 5.0 15.0
 85 63.7 32.6 97.7



#64
 n-propylbenzene
 Concen: 11.237 ppbv
 RT: 10.995 min Scan# 3370
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 120 Resp: 190663
 Ion Ratio Lower Upper
 120 100
 91 466.1 372.7 559.1





#65

tert-Butylbenzene

Concen: 11.322 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABS01

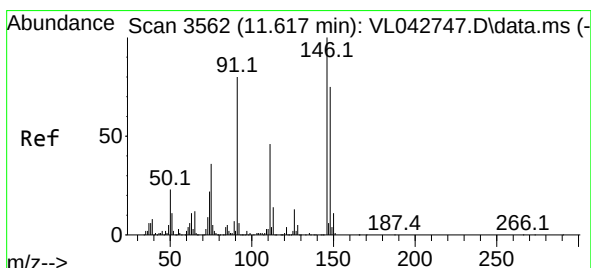
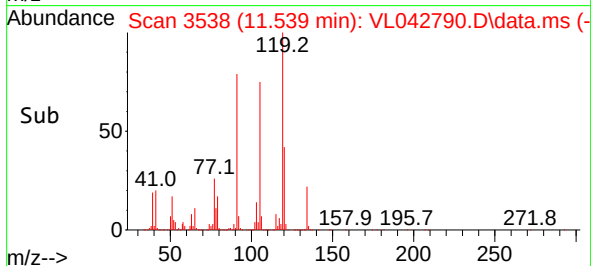
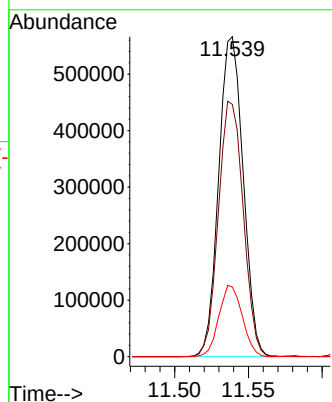
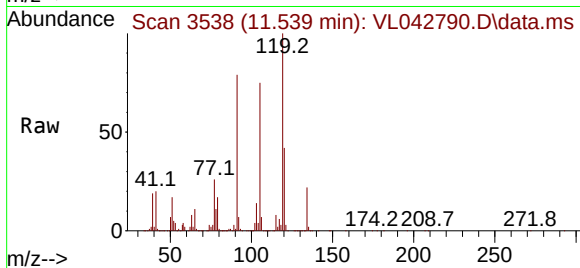
Tgt Ion:119 Resp: 654563

Ion Ratio Lower Upper

119 100

91 81.1 64.0 96.0

134 21.3 17.3 25.9



#66

Benzyl Chloride

Concen: 13.365 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

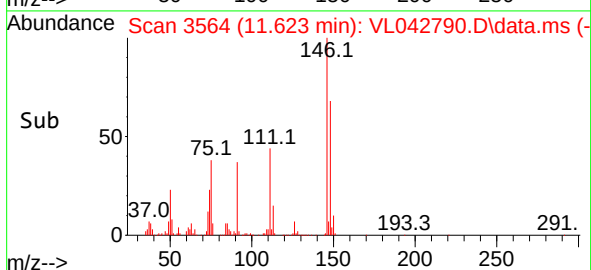
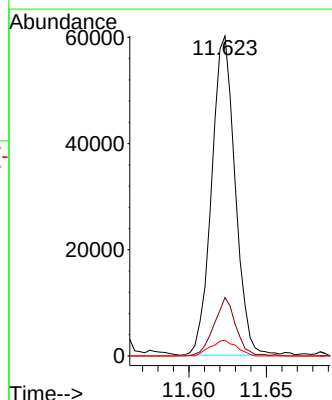
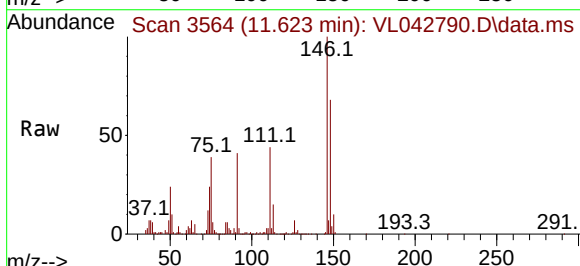
Tgt Ion: 91 Resp: 63429

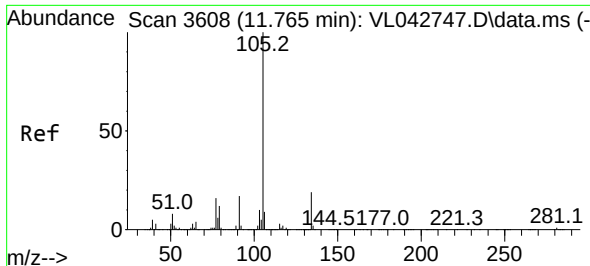
Ion Ratio Lower Upper

91 100

126 17.1 14.4 21.6

128 5.5 5.2 7.8

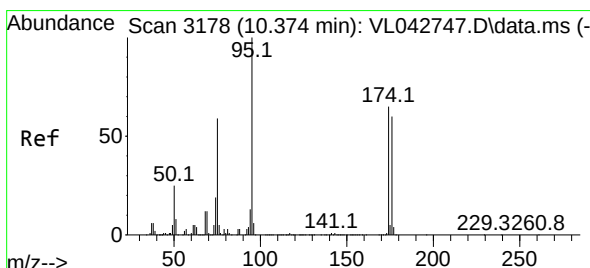
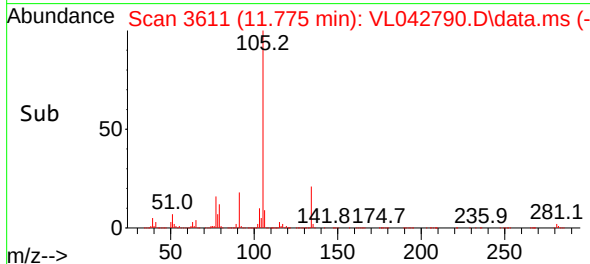
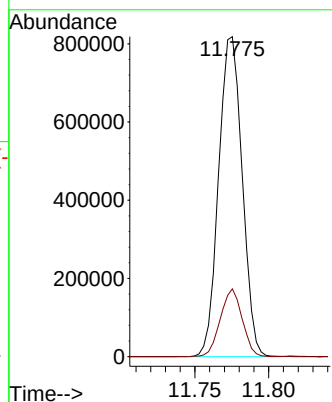
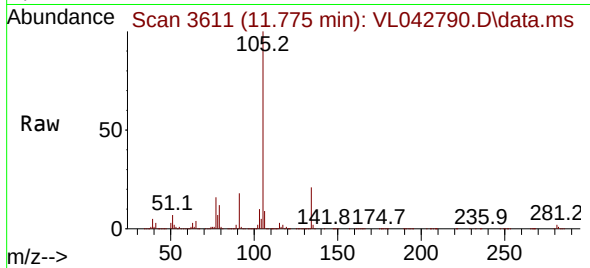




#67
 sec-Butylbenzene
 Concen: 11.065 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

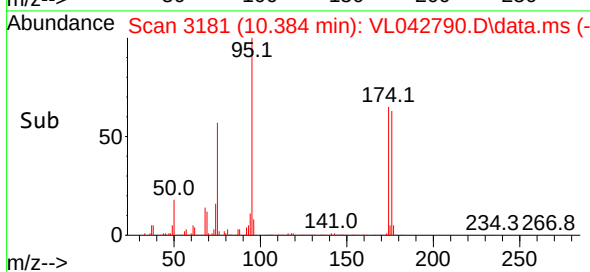
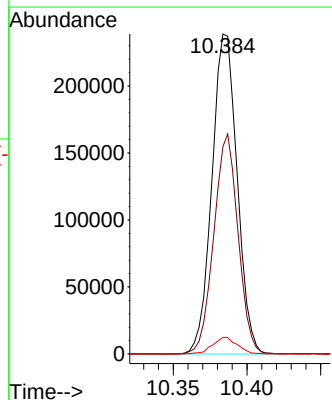
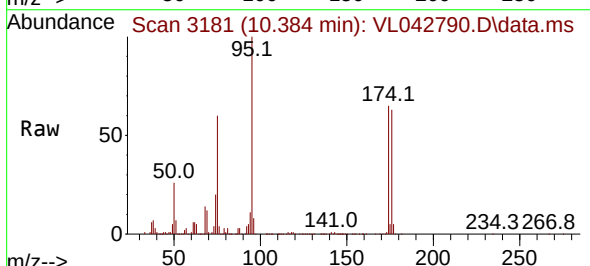
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

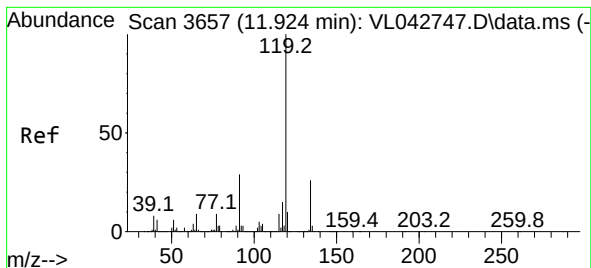
Tgt Ion:105 Resp: 909814
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.254 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 95 Resp: 284130
 Ion Ratio Lower Upper
 95 100
 174 66.0 53.8 80.6
 175 5.1 4.0 6.0





#69

p-Isopropyltoluene

Concen: 11.553 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

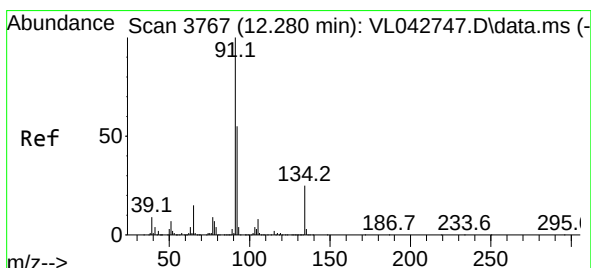
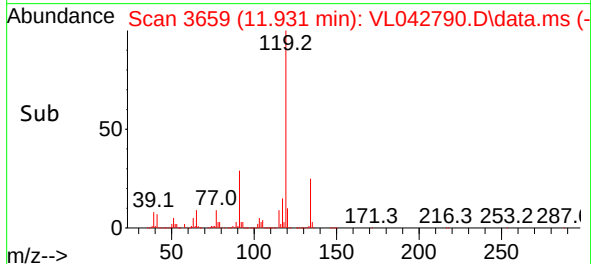
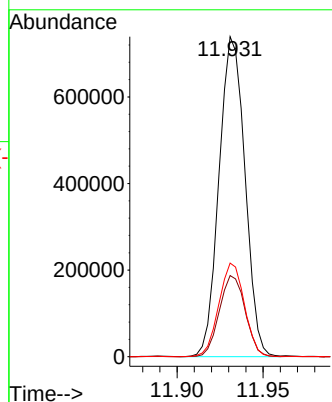
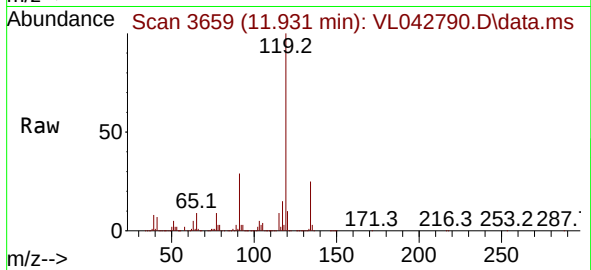
Tgt Ion:119 Resp: 774561

Ion Ratio Lower Upper

119 100

134 25.3 20.6 31.0

91 29.0 23.2 34.8



#70

n-Butylbenzene

Concen: 12.130 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

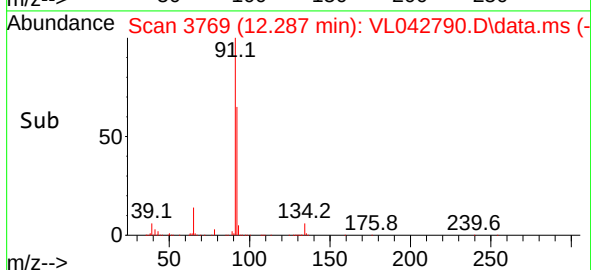
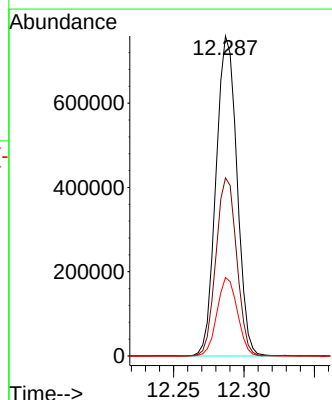
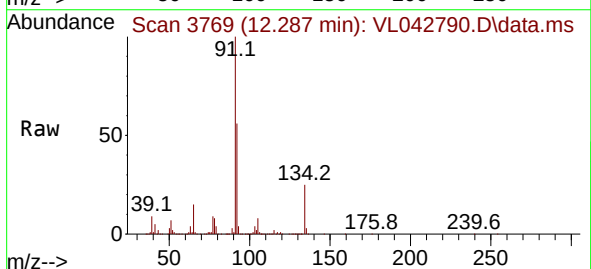
Tgt Ion: 91 Resp: 785569

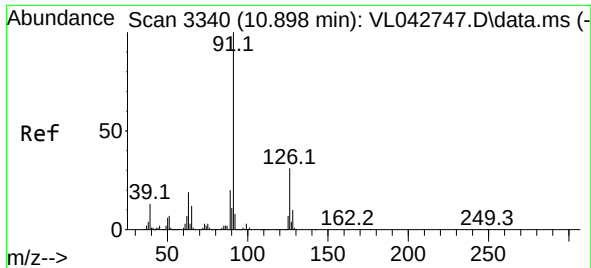
Ion Ratio Lower Upper

91 100

92 55.2 43.4 65.2

134 23.9 19.6 29.4

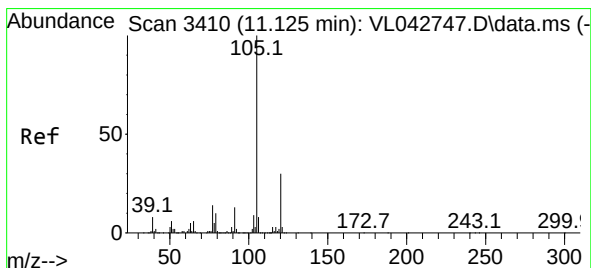
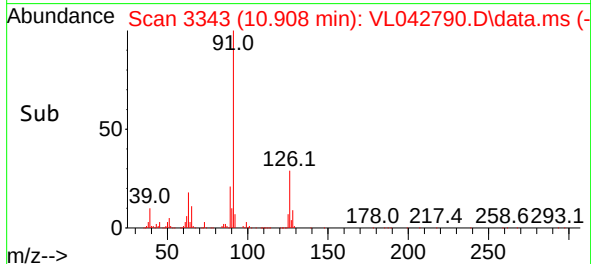
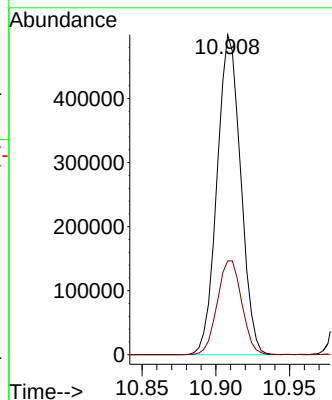
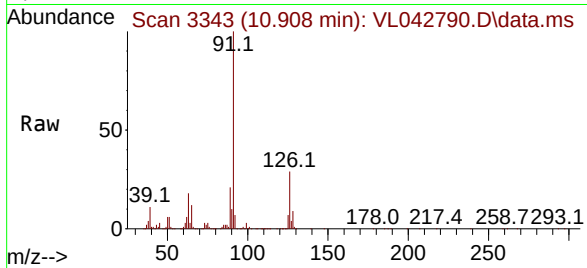




#71
2-Chlorotoluene
Concen: 11.153 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

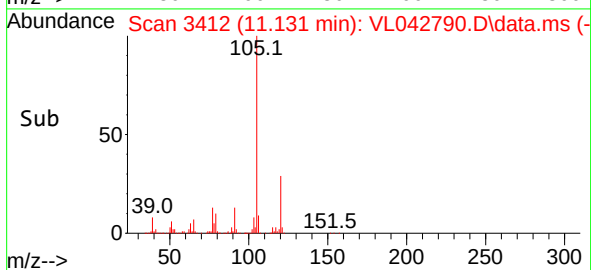
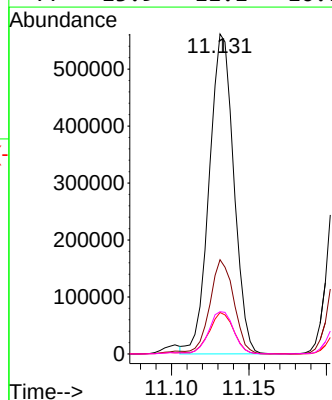
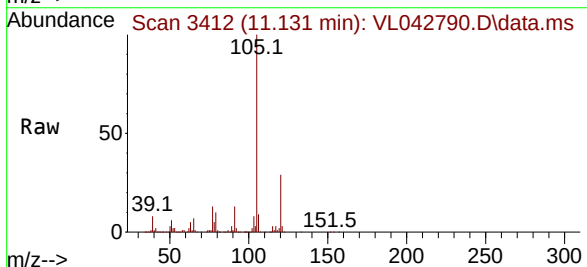
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

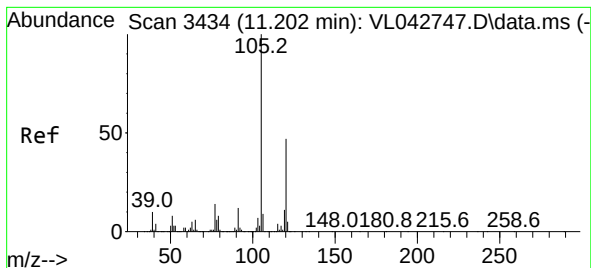
Tgt Ion: 91 Resp: 556610
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 11.729 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 105 Resp: 618091
Ion Ratio Lower Upper
105 100
120 29.5 24.4 36.6
91 13.3 10.6 15.8
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.871 ppbv

RT: 11.212 min Scan# 3434

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

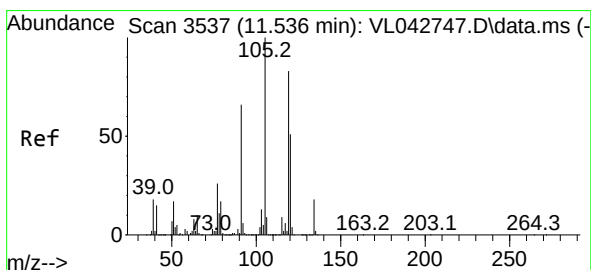
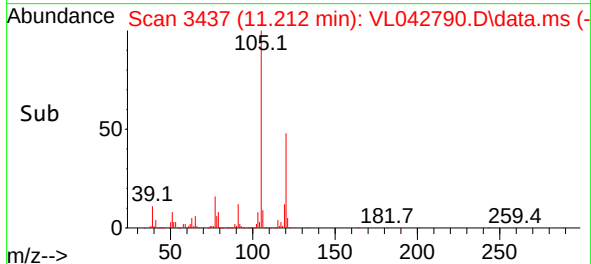
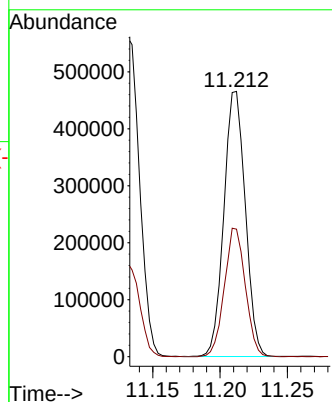
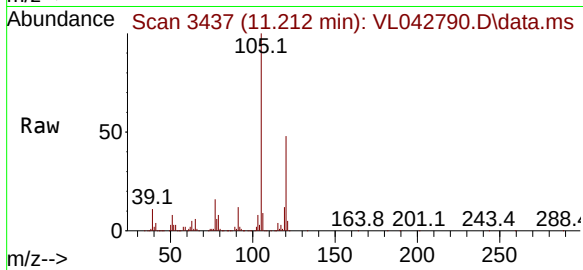
VL0731ABS01

Tgt Ion:105 Resp: 515043

Ion Ratio Lower Upper

105 100

120 48.1 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 12.057 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 570715

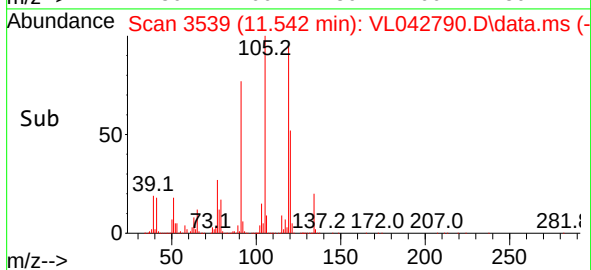
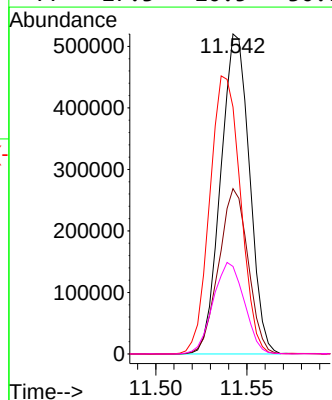
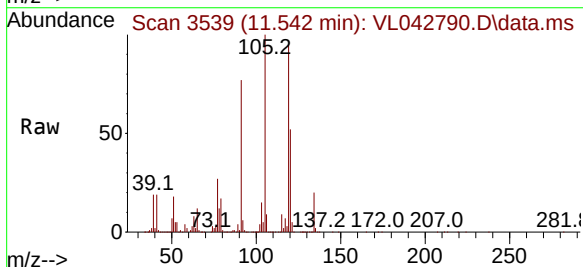
Ion Ratio Lower Upper

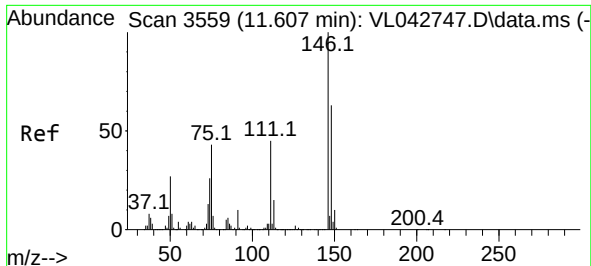
105 100

120 51.6 40.8 61.2

91 77.0 53.0 79.4

77 27.3 20.5 30.7

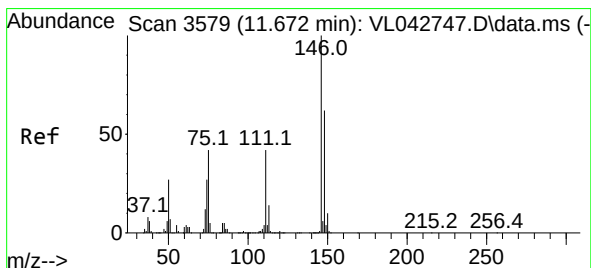
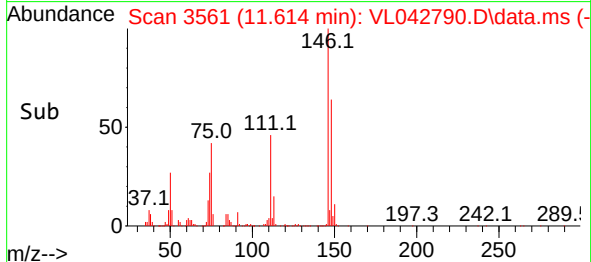
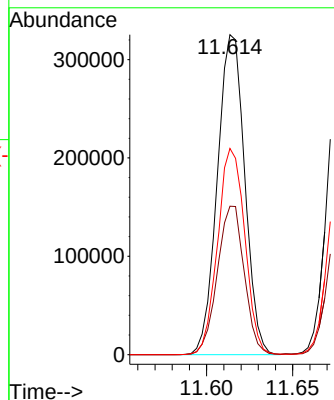
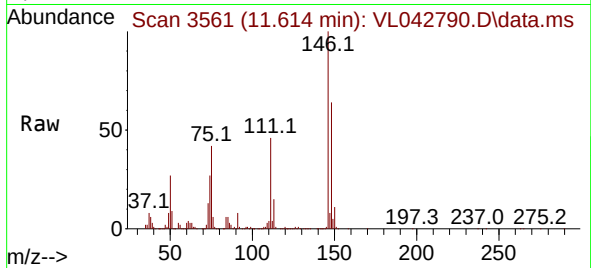




#75
1,3-Dichlorobenzene
Concen: 10.852 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

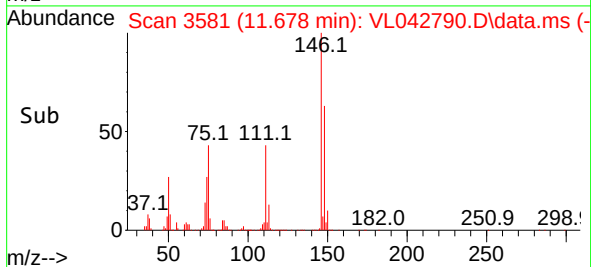
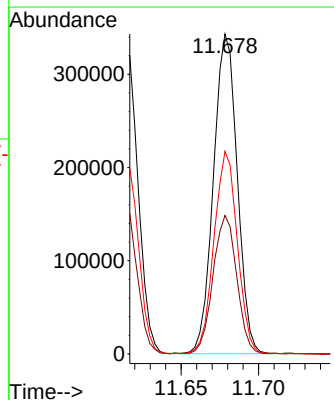
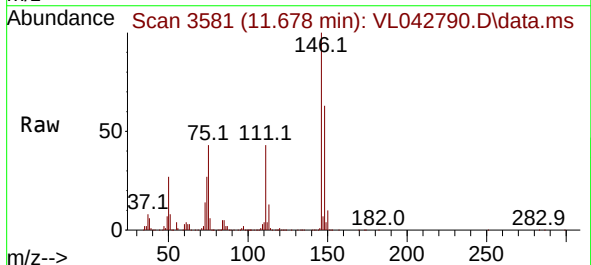
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

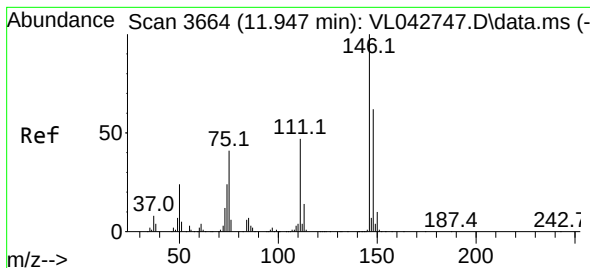
Tgt Ion:146 Resp: 360095
Ion Ratio Lower Upper
146 100
111 45.7 22.7 68.0
148 64.0 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 11.273 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:146 Resp: 366048
Ion Ratio Lower Upper
146 100
111 43.3 21.4 64.2
148 62.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.770 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABS01

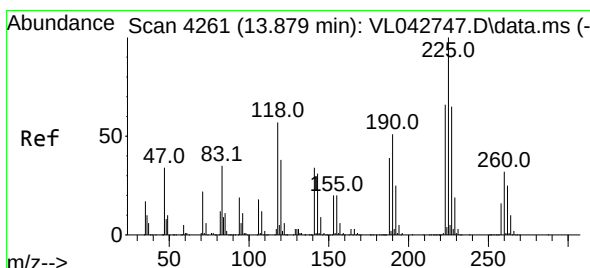
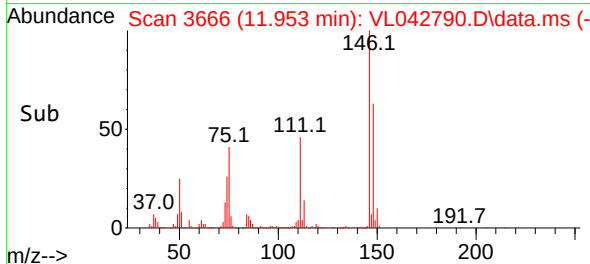
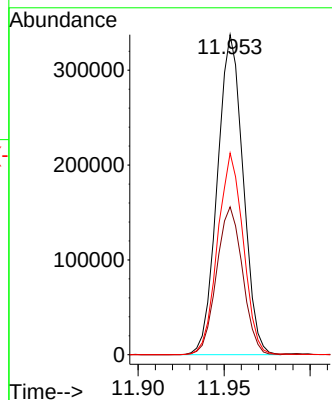
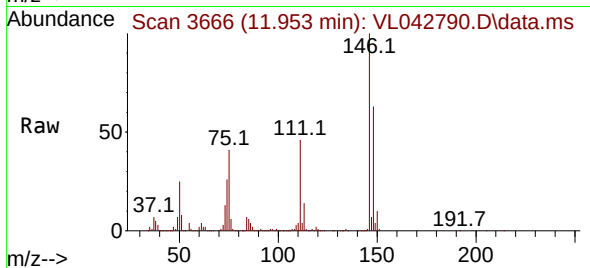
Tgt Ion:146 Resp: 351242

Ion Ratio Lower Upper

146 100

111 46.8 23.7 71.1

148 62.8 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 9.538 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

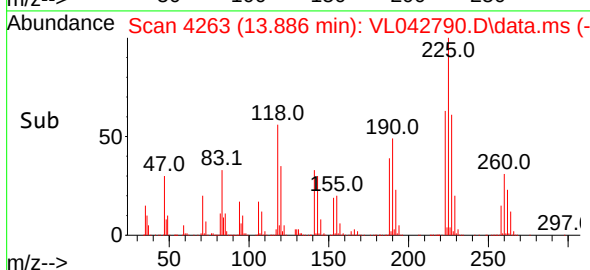
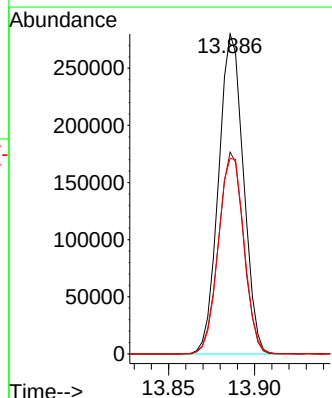
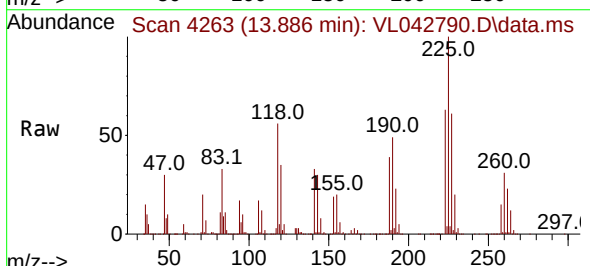
Tgt Ion:225 Resp: 281564

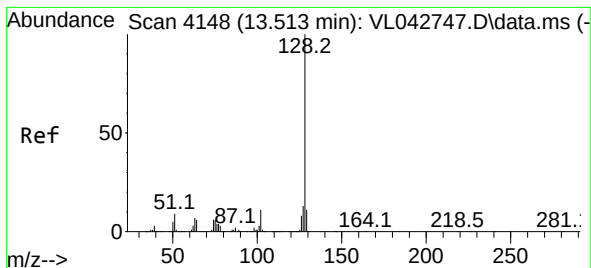
Ion Ratio Lower Upper

225 100

223 63.5 50.7 76.1

227 63.9 50.5 75.7





#79

Naphthalene

Concen: 10.494 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

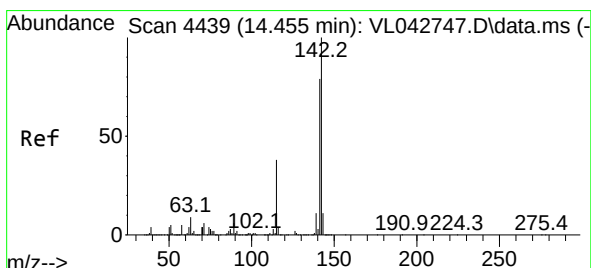
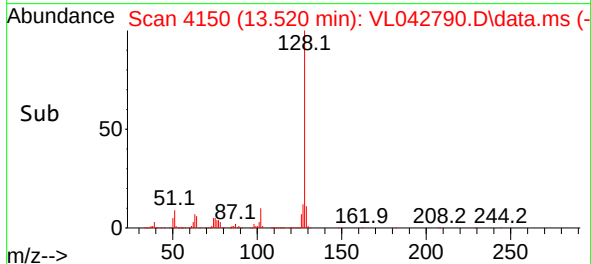
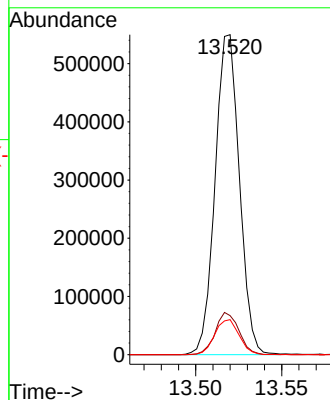
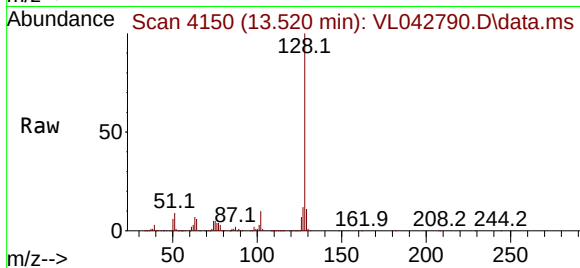
Tgt Ion:128 Resp: 540121

Ion Ratio Lower Upper

128 100

127 12.2 10.5 15.7

129 10.9 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 8.786 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

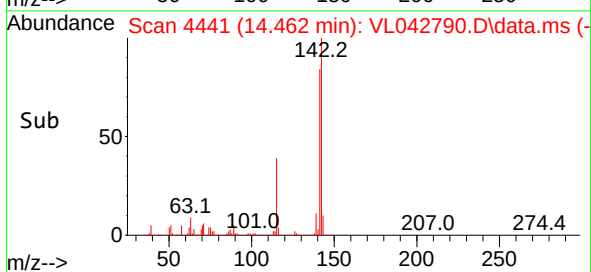
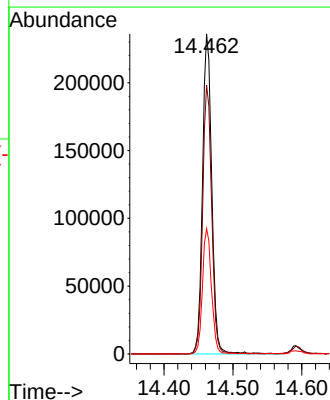
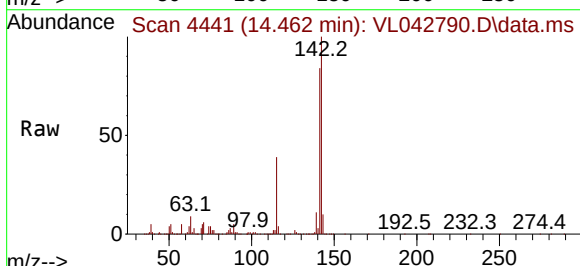
Tgt Ion:142 Resp: 221690

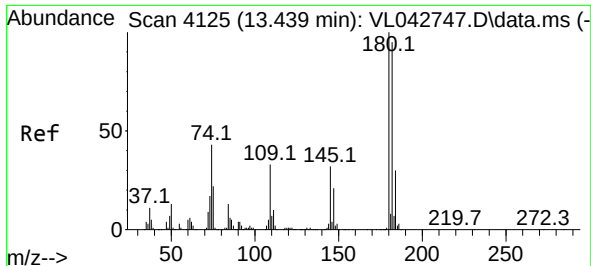
Ion Ratio Lower Upper

142 100

141 82.4 65.8 98.8

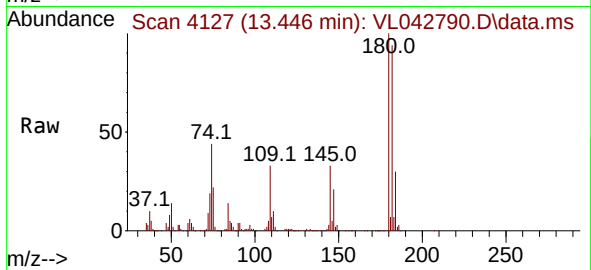
115 38.3 31.2 46.8





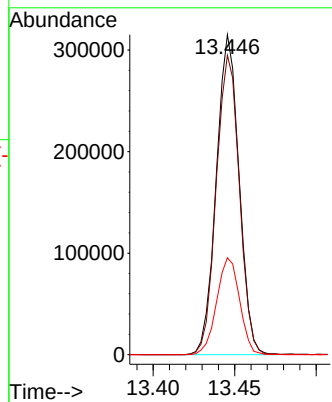
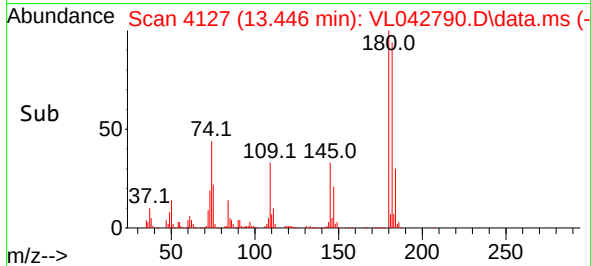
#81
 1,2,4-Trichlorobenzene
 Concen: 10.565 ppbv
 RT: 13.446 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion:180 Resp: 305698

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.2	114.2
184	30.5	24.8	37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Quant Time: Aug 01 01:15:48 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

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

Internal Standards						
1) Bromochloromethane	2.790	49	143361	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	385270	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347681	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	285966	10.386	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	183911	9.703	ppbv	98
3) Chlorodifluoromethane	1.476	51	250299	10.137	ppbv	99
4) Chloromethane	1.534	50	70831	9.237	ppbv	97
5) Vinyl Chloride	1.580	62	63417	8.370	ppbv	98
6) Bromomethane	1.670	94	26564	9.069	ppbv	92
7) Chloroethane	1.706	64	25813	8.818	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	145635	9.343	ppbv	99
9) Propene	1.482	41	67742	7.549	ppbv	90
10) Heptane	4.988	43	256581	10.604	ppbv	98
11) Trichlorofluoromethane	1.877	101	175951	9.005	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139531	9.398	ppbv	99
13) Ethanol	1.722	45	6169	8.289	ppbv	96
14) Bromoethene	1.783	108	47516	9.039	ppbv	97
15) Acetone	1.835	43	145544	7.352	ppbv	99
16) 1,3-Butadiene	1.609	39	75425	8.933	ppbv	100
17) tert-Butyl alcohol	2.042	59	157530	8.823	ppbv	99
18) 1,1-Dichloroethene	2.036	96	59735	8.904	ppbv	92
19) Isopropyl Alcohol	1.887	45	89890	8.545	ppbv	94
20) Methylene Chloride	2.062	84	53184	8.525	ppbv	92
21) Allyl Chloride	2.097	41	113975	9.342	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	66660	9.237	ppbv	90
23) Vinyl Acetate	2.463	43	267217	11.134	ppbv	99
24) 1,1-Dichloroethane	2.411	63	136610	9.222	ppbv	99
25) Ethyl Acetate	2.839	43	450028	10.270	ppbv	99
26) Hexane	2.829	57	193724	10.078	ppbv	98
27) Carbon Disulfide	2.152	76	164945	10.023	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	81968	9.026	ppbv	99
29) Chloroform	2.852	83	302251	10.176	ppbv	100
30) Cyclohexane	3.865	84	158206	9.705	ppbv	93
31) cis-1,2-Dichloroethene	2.722	61	189601	9.599	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	297175	9.605	ppbv	98
34) 2-Butanone	2.560	43	293015	10.737	ppbv	100
35) Carbon Tetrachloride	3.768	117	315193	11.014	ppbv	97
36) Benzene	3.661	78	389839	10.677	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236593	10.756	ppbv	100
38) Trichloroethene	4.557	130	174966	9.974	ppbv	97
39) 1,2-Dichloropropane	4.318	63	144769	10.741	ppbv	99
40) 1,4-Dioxane	4.590	88	61985	9.866	ppbv #	97
41) Tetrahydrofuran	3.059	42	157948	11.374	ppbv	97
42) Bromodichloromethane	4.496	83	324724	11.336	ppbv	98
43) Methyl Methacrylate	4.887	69	147145	11.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	673176	11.311	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	159751	10.976	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Quant Time: Aug 01 01:15:48 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

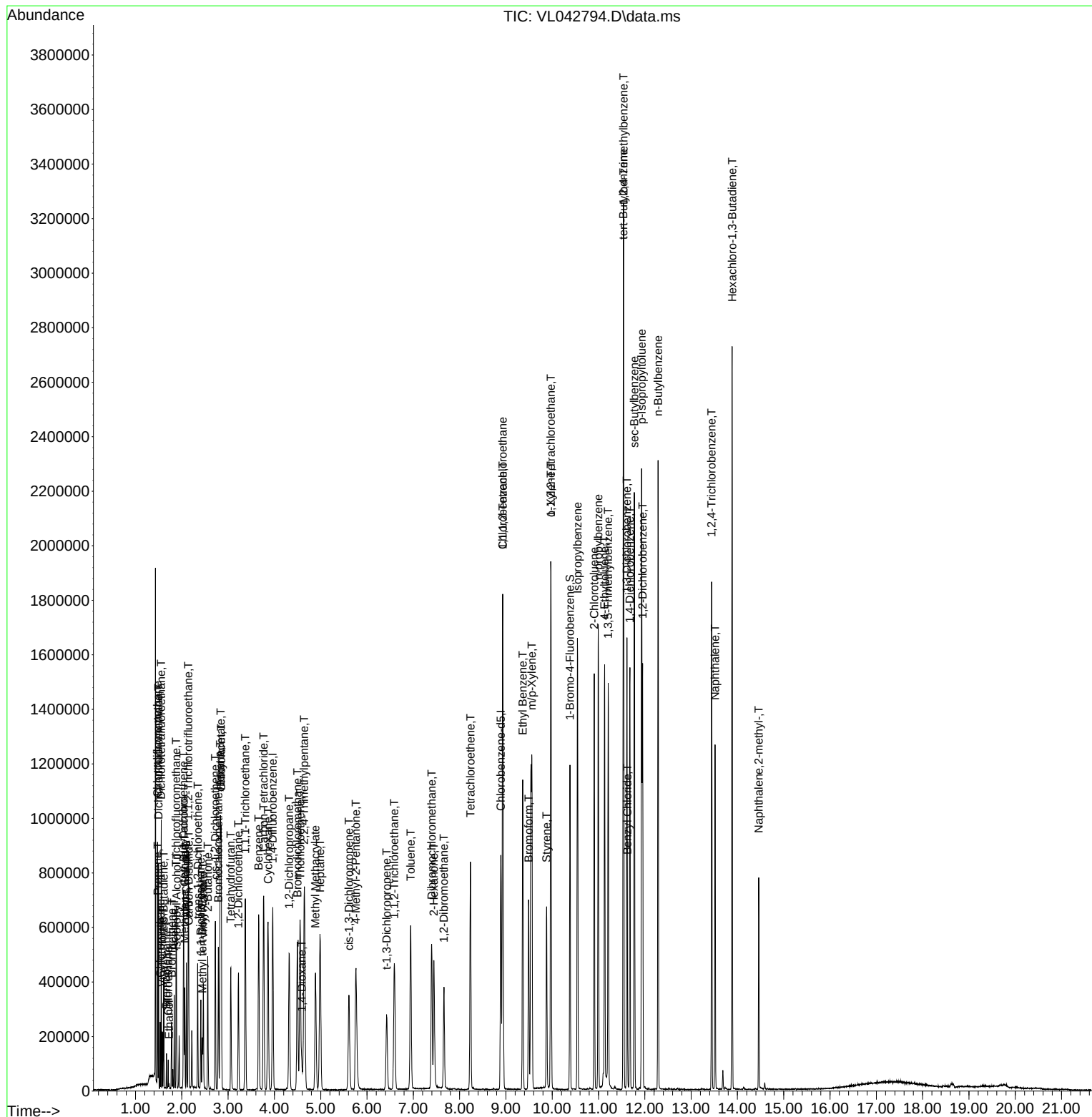
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	205816	11.160	ppbv	97
47) 1,1,2-Trichloroethane	6.590	97	156216	10.873	ppbv	98
48) Dibromochloromethane	7.396	129	262522	11.510	ppbv	99
49) Bromoform	9.493	173	234893	11.811	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	403132	11.467	ppbv	98
51) 2-Hexanone	7.441	43	322822	12.152	ppbv #	98
52) Tetrachloroethene	8.234	164	144051	9.518	ppbv	94
53) Toluene	6.943	91	436601	11.135	ppbv	99
54) 1,2-Dibromoethane	7.661	107	226779	11.172	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	199484	11.035	ppbv	99
57) Chlorobenzene	8.930	112	353946	10.519	ppbv	97
58) Ethyl Benzene	9.364	91	615615	11.212	ppbv	100
59) m/p-Xylene	9.558	91	510911	11.643	ppbv #	30
60) o-Xylene	9.969	91	509306	11.615	ppbv	99
61) Styrene	9.878	104	217878	11.813	ppbv	99
62) Isopropylbenzene	10.545	105	731077	11.304	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	290577	10.323	ppbv	99
64) n-propylbenzene	10.995	120	196210	11.637	ppbv	100
65) tert-Butylbenzene	11.535	119	656497	11.427	ppbv	99
66) Benzyl Chloride	11.623	91	64301	13.634	ppbv	99
67) sec-Butylbenzene	11.772	105	929357	11.374	ppbv	100
69) p-Isopropyltoluene	11.930	119	783925	11.766	ppbv	100
70) n-Butylbenzene	12.286	91	802758	12.474	ppbv	99
71) 2-Chlorotoluene	10.908	91	560672	11.306	ppbv	99
72) 4-Ethyltoluene	11.131	105	622768	11.893	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	522269	12.114	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	576097	12.248	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	370097	11.224	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	365448	11.326	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	357874	11.043	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	289316	9.863	ppbv	99
79) Naphthalene	13.516	128	552592	10.791	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	210490	8.445	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	310917	10.803	ppbv	99

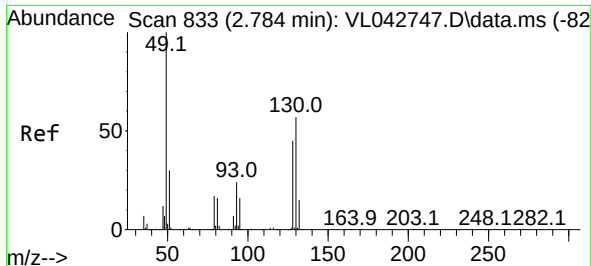
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Quant Time: Aug 01 01:15:48 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

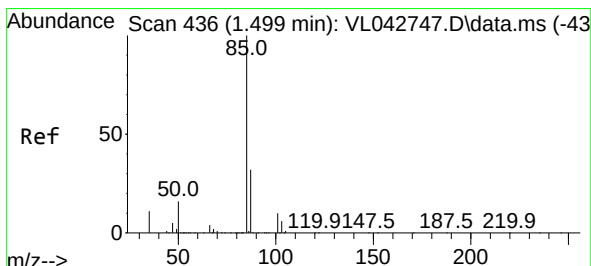
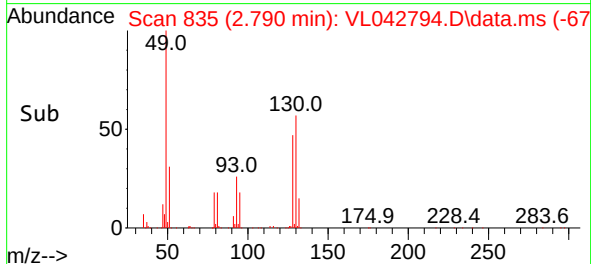
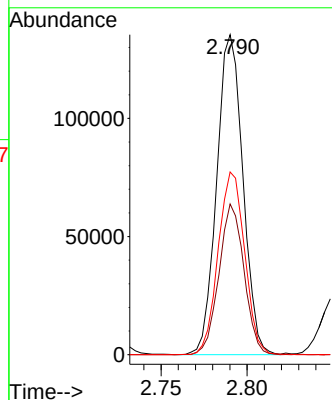
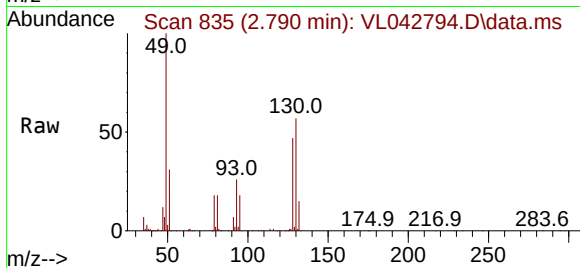




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

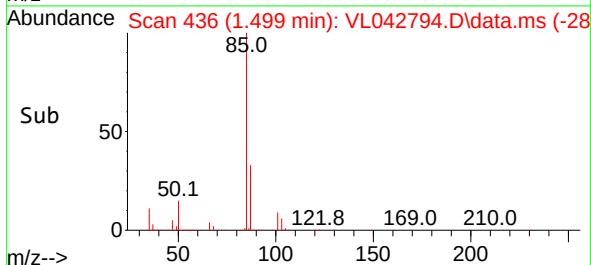
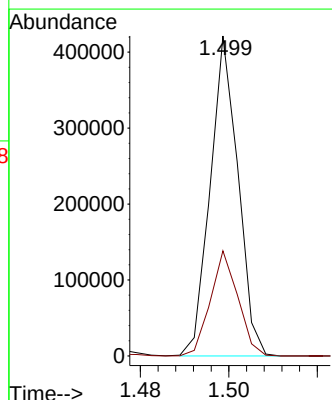
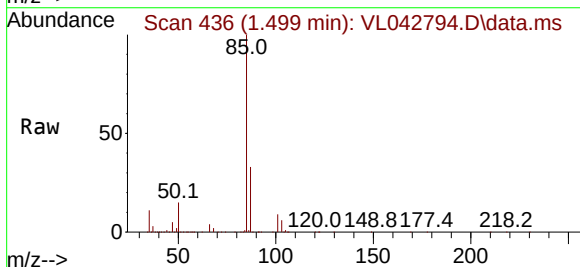
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

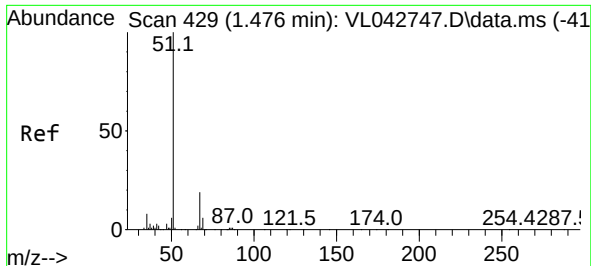
Tgt Ion: 49 Resp: 143361
Ion Ratio Lower Upper
49 100
128 45.1 23.6 71.0
130 57.8 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 9.703 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 85 Resp: 183911
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2

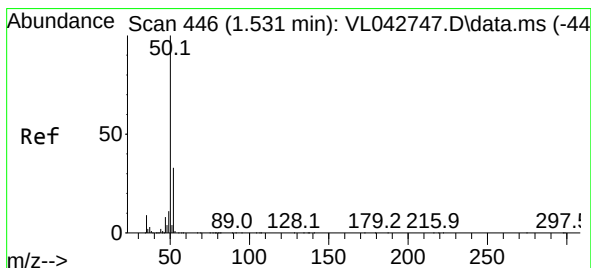
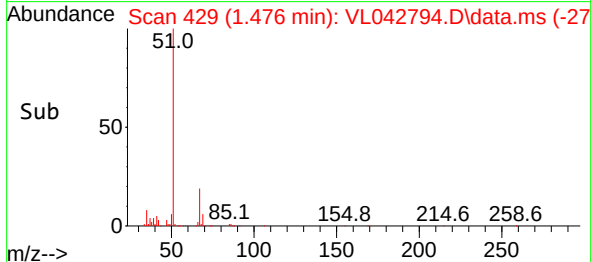
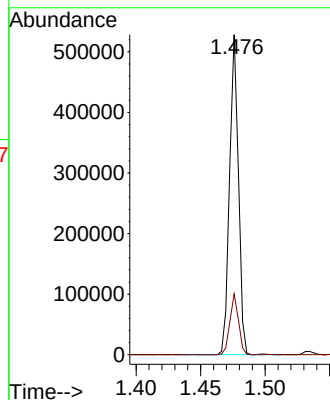
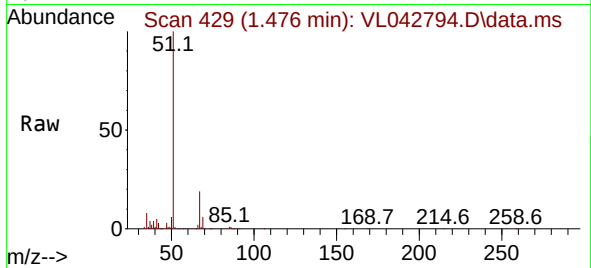




#3
Chlorodifluoromethane
Concen: 10.137 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

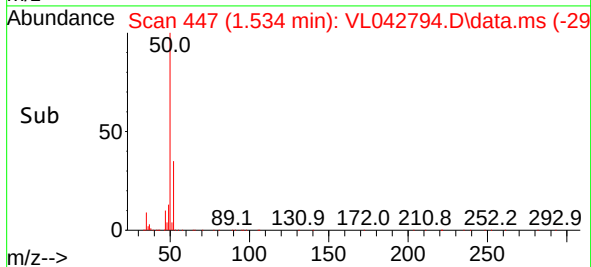
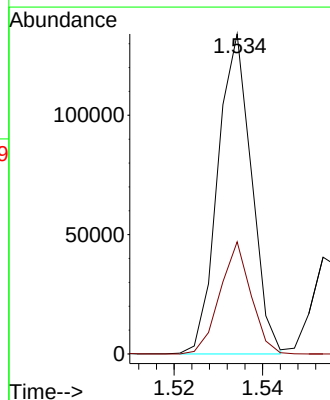
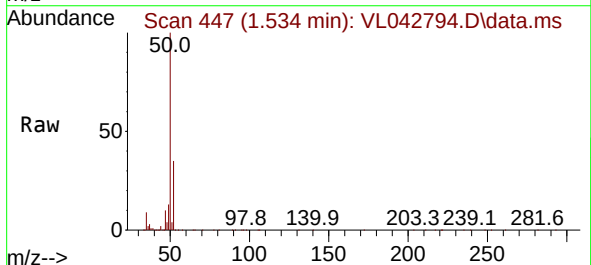
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

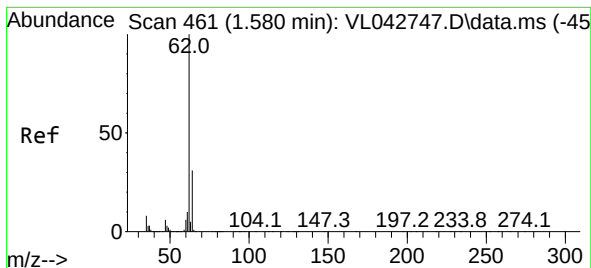
Tgt Ion: 51 Resp: 250299
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6



#4
Chloromethane
Concen: 9.237 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 50 Resp: 70831
Ion Ratio Lower Upper
50 100
52 35.1 26.6 40.0





#5

Vinyl Chloride

Concen: 8.370 ppbv

RT: 1.580 min Scan# 4

Delta R.T. -0.000 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

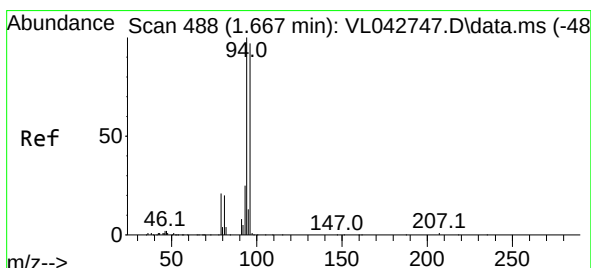
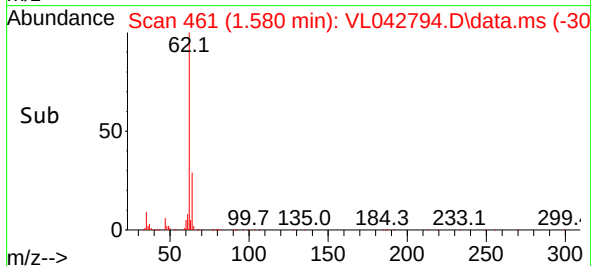
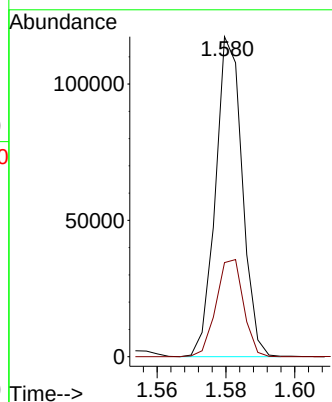
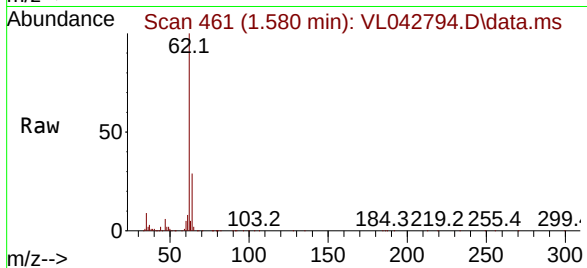
VL0731ABSD01

Tgt Ion: 62 Resp: 63417

Ion Ratio Lower Upper

62 100

64 29.4 24.5 36.7



#6

Bromomethane

Concen: 9.069 ppbv

RT: 1.670 min Scan# 489

Delta R.T. 0.003 min

Lab File: VL042794.D

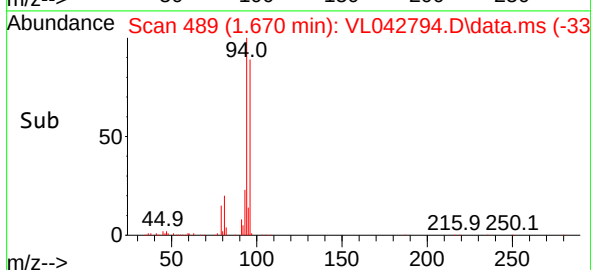
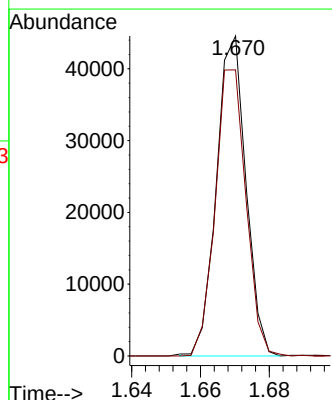
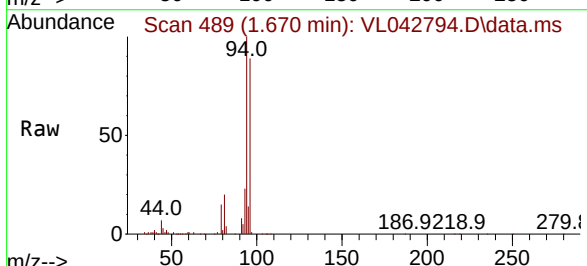
Acq: 31 Jul 2025 13:55

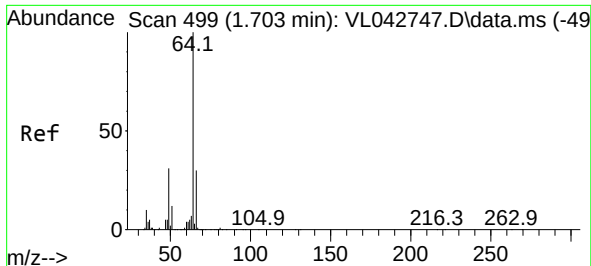
Tgt Ion: 94 Resp: 26564

Ion Ratio Lower Upper

94 100

96 89.4 77.6 116.4

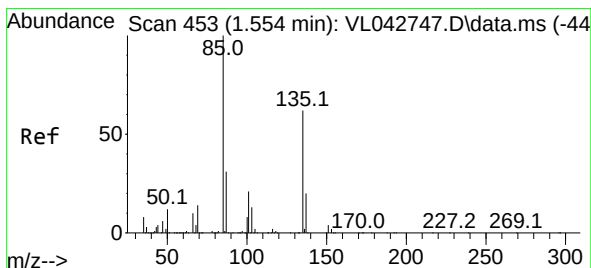
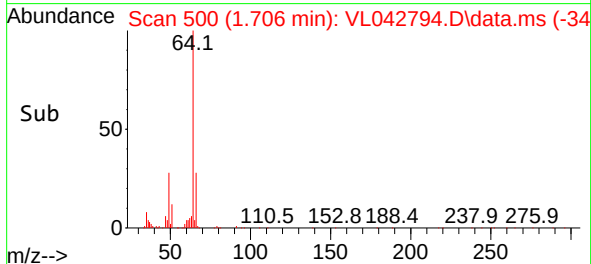
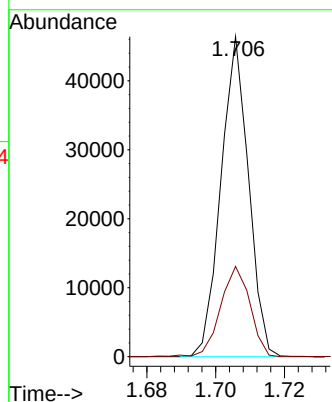
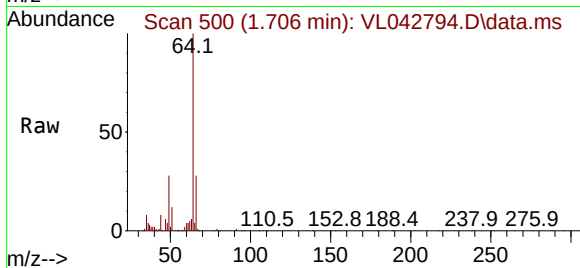




#7
Chloroethane
Concen: 8.818 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

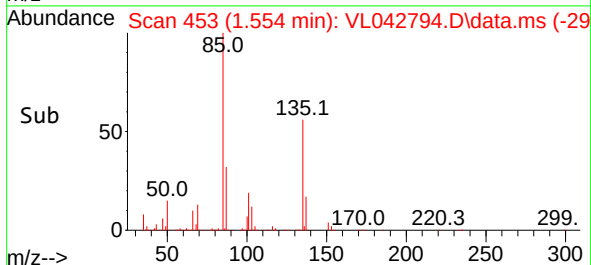
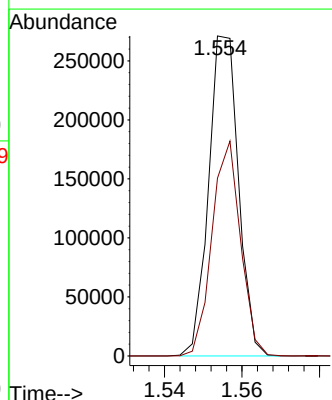
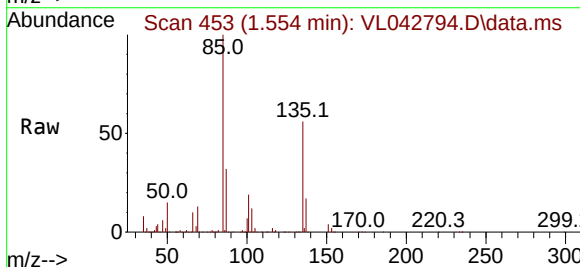
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

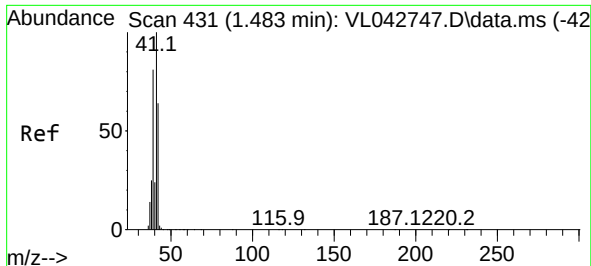
Tgt Ion: 64 Resp: 25813
Ion Ratio Lower Upper
64 100
66 28.2 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.343 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 85 Resp: 145635
Ion Ratio Lower Upper
85 100
135 64.1 50.6 76.0

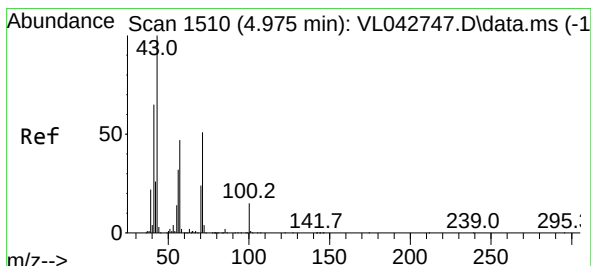
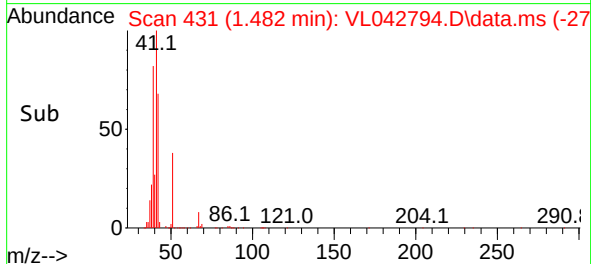
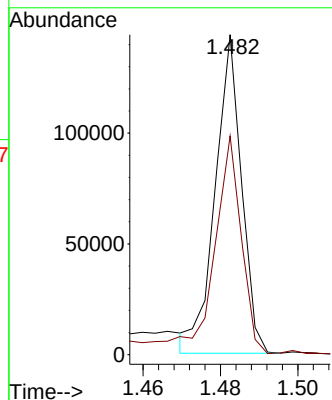
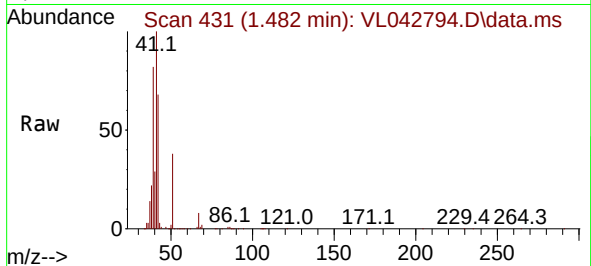




#9
Propene
Concen: 7.549 ppbv
RT: 1.482 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

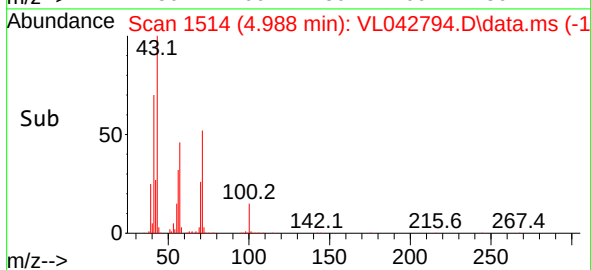
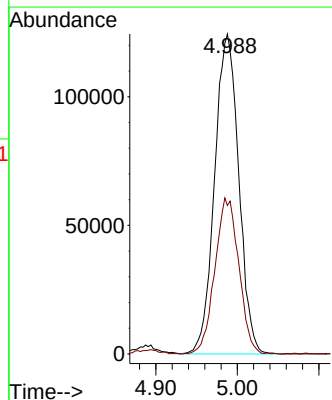
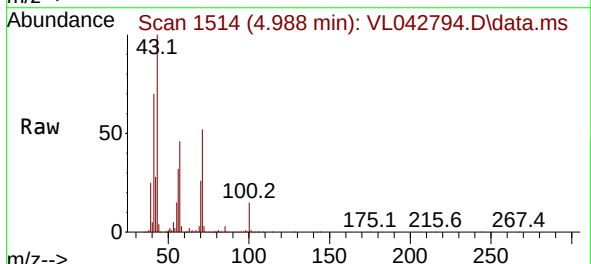
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

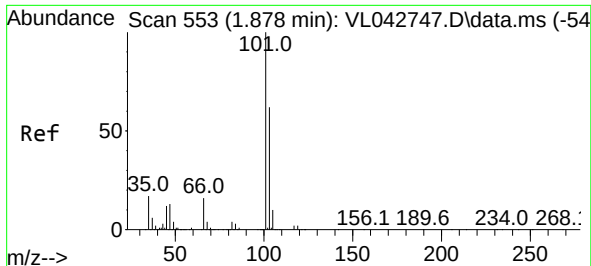
Tgt Ion: 41 Resp: 67742
Ion Ratio Lower Upper
41 100
42 74.8 53.2 79.8



#10
Heptane
Concen: 10.604 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 43 Resp: 256581
Ion Ratio Lower Upper
43 100
57 48.4 39.9 59.9

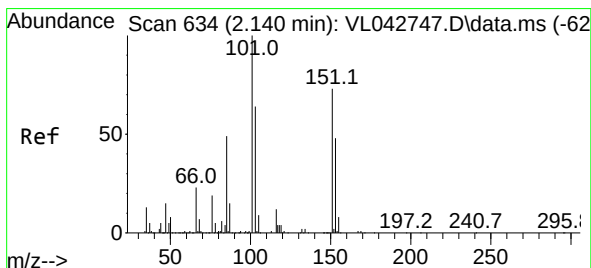
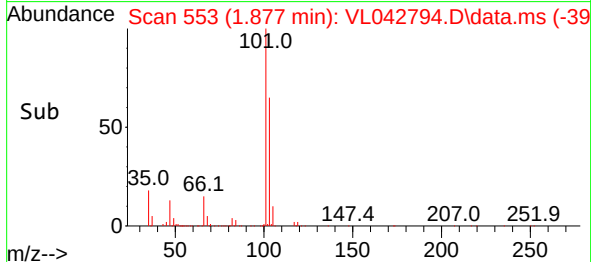
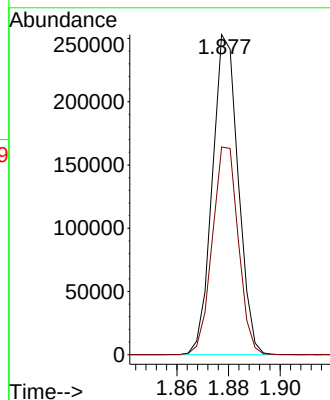
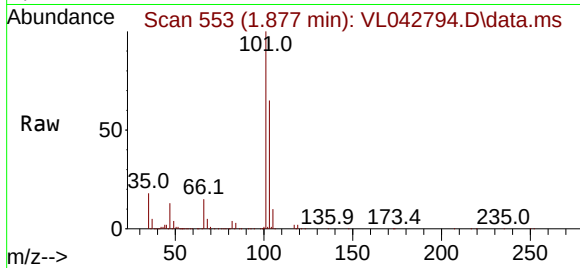




#11
 Trichlorofluoromethane
 Concen: 9.005 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

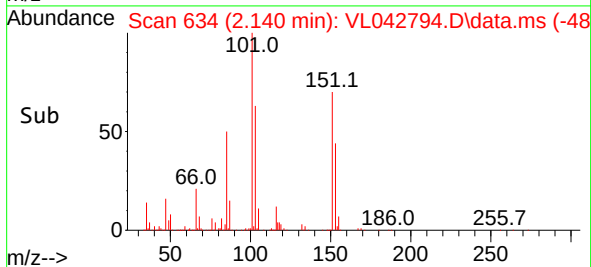
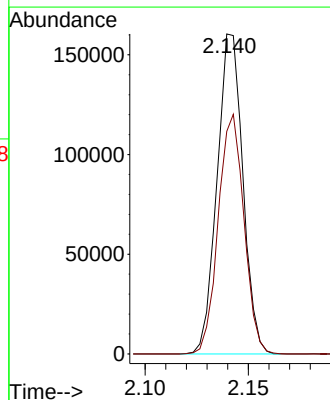
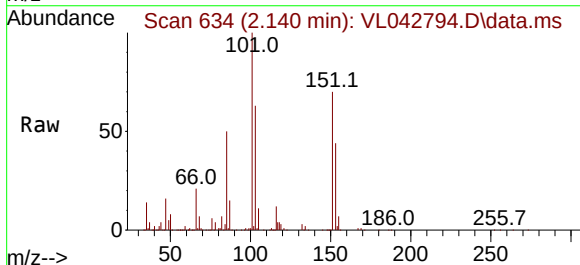
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

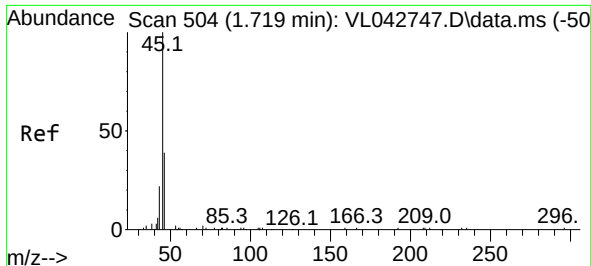
Tgt Ion:101 Resp: 175951
 Ion Ratio Lower Upper
 101 100
 103 64.9 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.398 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion:101 Resp: 139531
 Ion Ratio Lower Upper
 101 100
 151 74.5 60.5 90.7

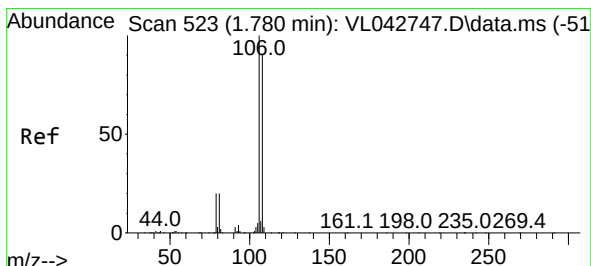
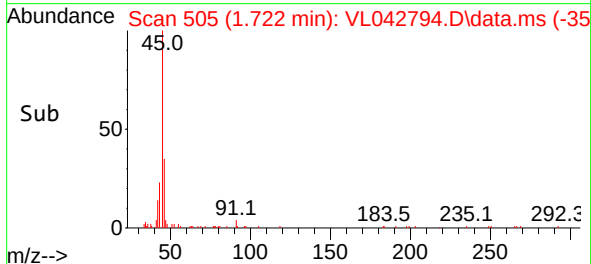
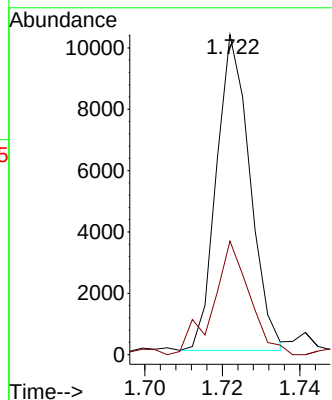
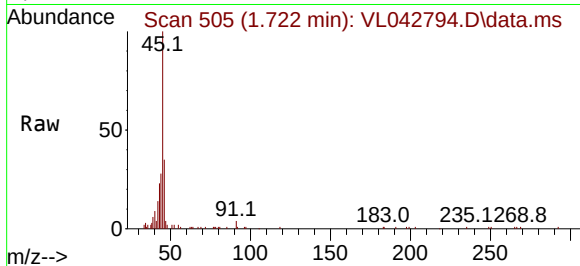




#13
 Ethanol
 Concen: 8.289 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

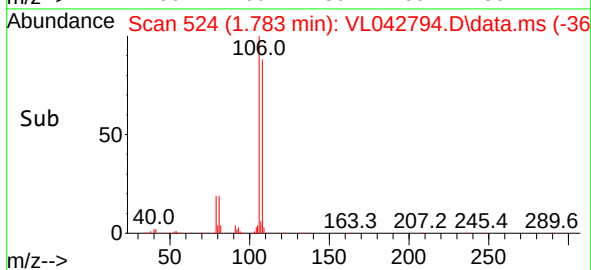
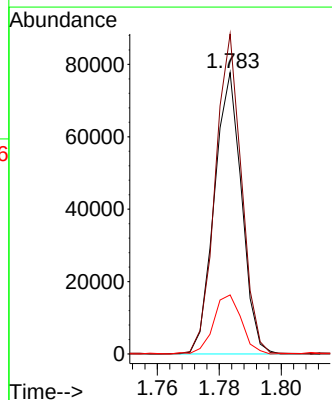
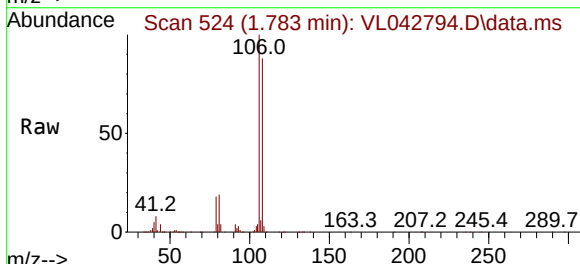
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

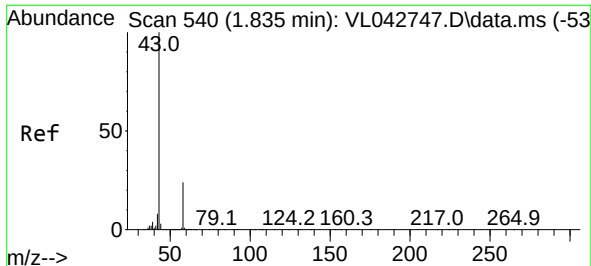
Tgt Ion: 45 Resp: 6169
 Ion Ratio Lower Upper
 45 100
 46 42.1 17.8 71.4



#14
 Bromoethene
 Concen: 9.039 ppbv
 RT: 1.783 min Scan# 524
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 108 Resp: 47516
 Ion Ratio Lower Upper
 108 100
 106 109.8 84.7 127.1
 79 22.7 17.4 26.2

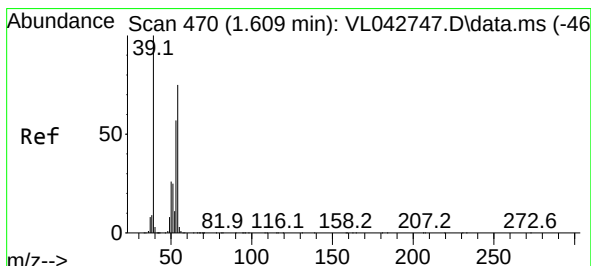
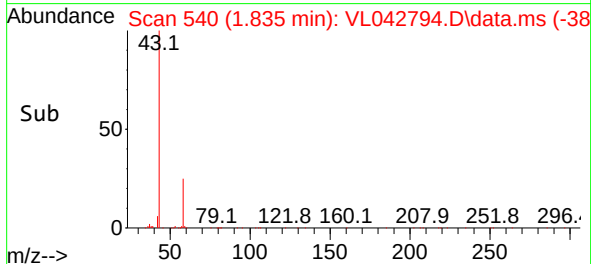
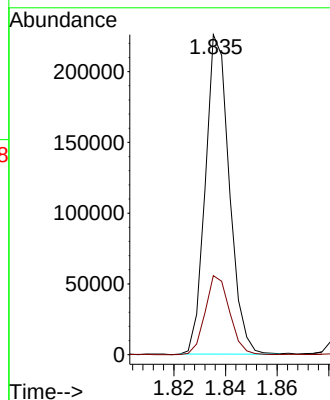
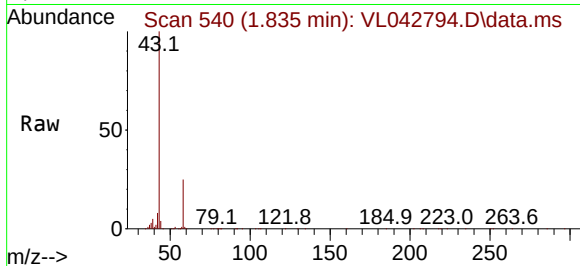




#15
Acetone
Concen: 7.352 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

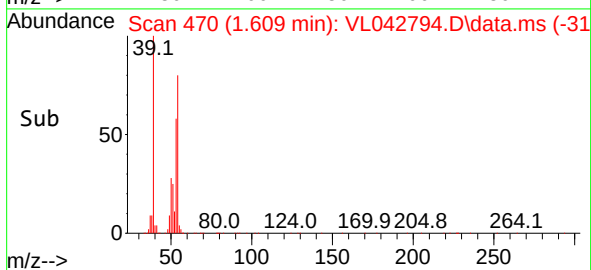
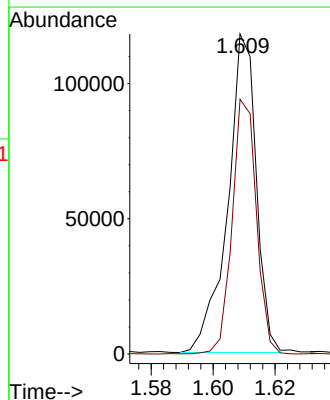
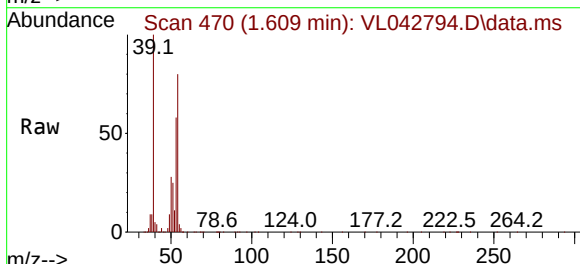
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

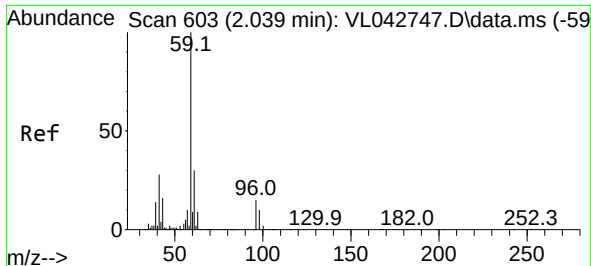
Tgt Ion: 43 Resp: 145544
Ion Ratio Lower Upper
43 100
58 25.4 19.8 29.8



#16
1,3-Butadiene
Concen: 8.933 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 39 Resp: 75425
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.823 ppbv

RT: 2.042 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

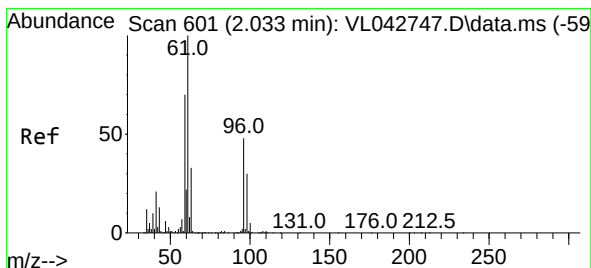
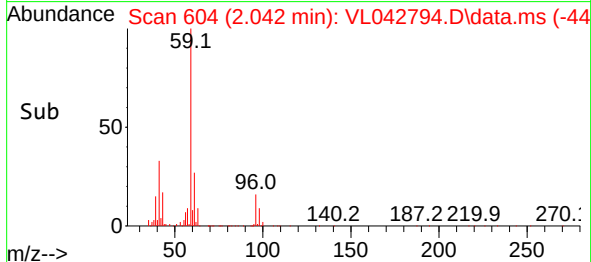
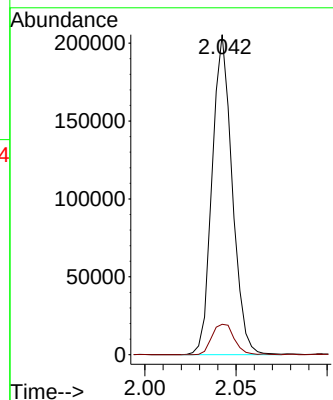
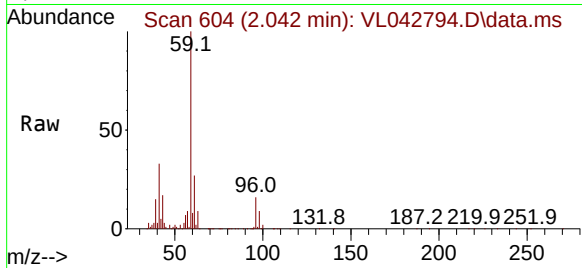
VL0731ABSD01

Tgt Ion: 59 Resp: 157530

Ion Ratio Lower Upper

59 100

57 10.7 8.3 12.5



#18

1,1-Dichloroethene

Concen: 8.904 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

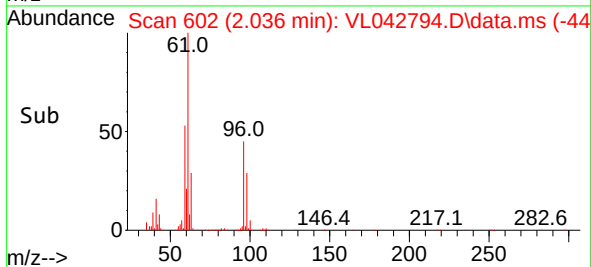
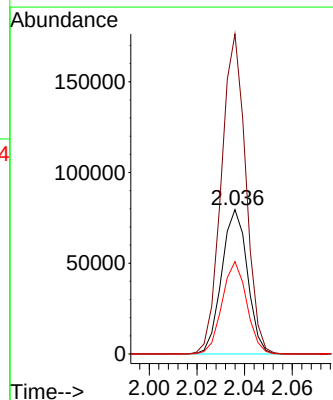
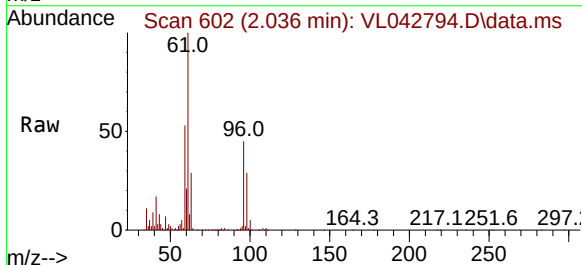
Tgt Ion: 96 Resp: 59735

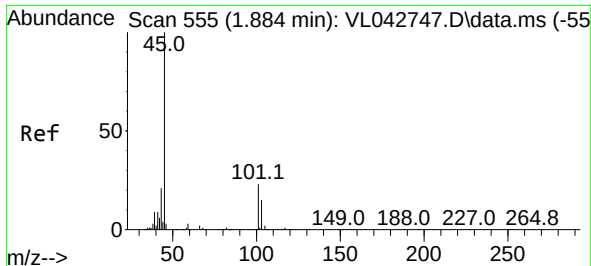
Ion Ratio Lower Upper

96 100

61 221.7 165.8 248.6

98 64.0 49.9 74.9

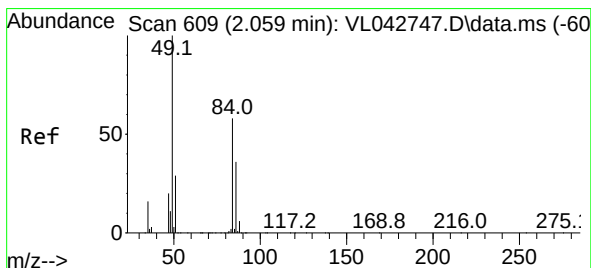
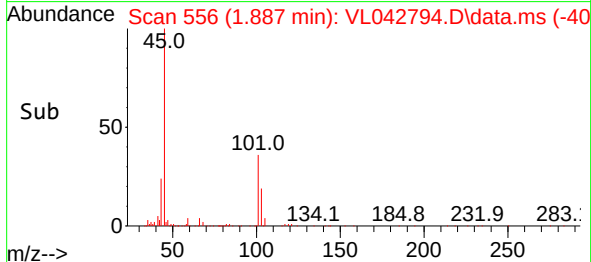
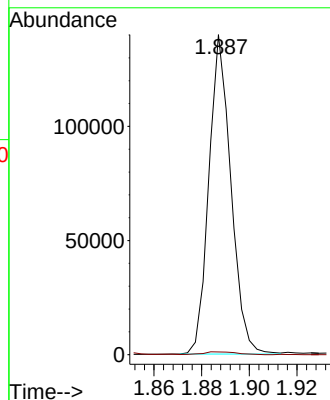
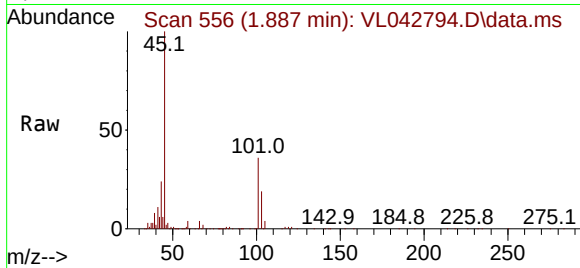




#19
Isopropyl Alcohol
Concen: 8.545 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

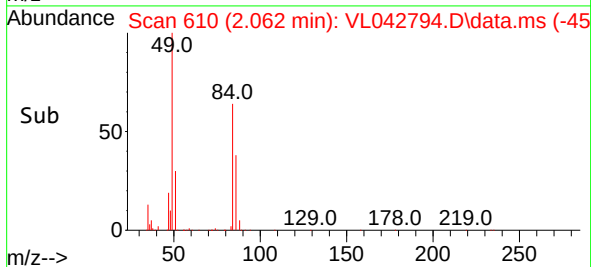
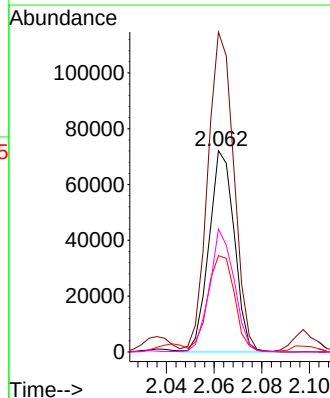
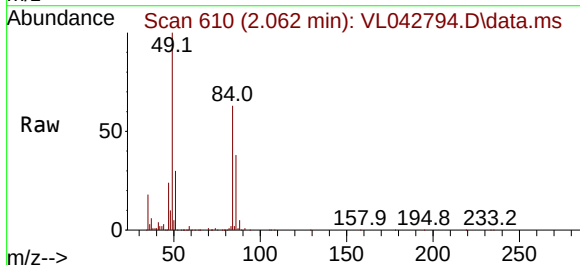
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

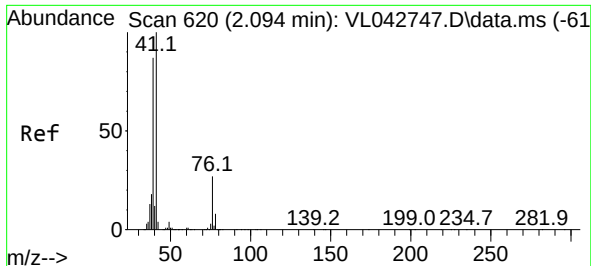
Tgt Ion: 45 Resp: 89890
Ion Ratio Lower Upper
45 100
58 41.1 30.0 45.0



#20
Methylene Chloride
Concen: 8.525 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 84 Resp: 53184
Ion Ratio Lower Upper
84 100
49 158.0 138.6 208.0
51 47.4 40.6 61.0
86 60.9 49.8 74.8

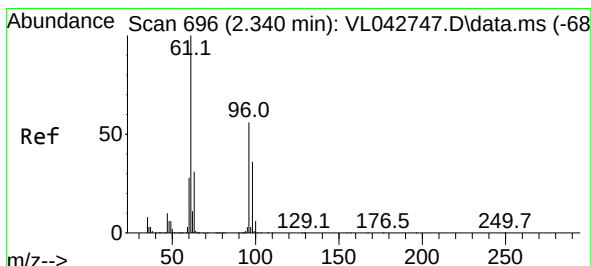
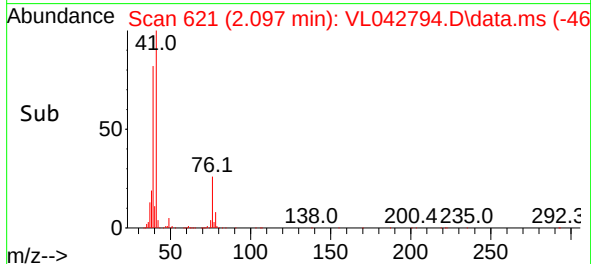
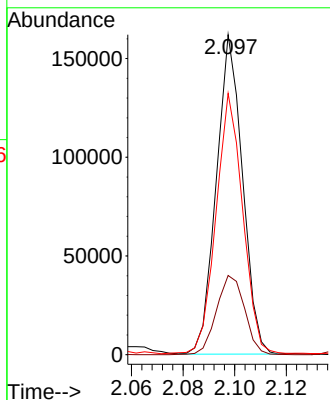
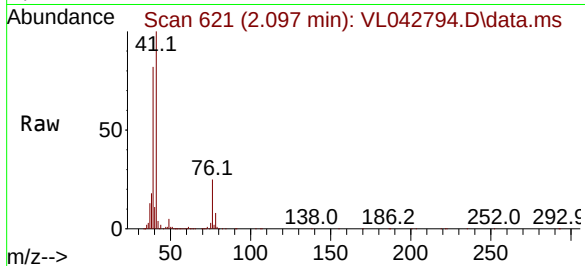




#21
 Allyl Chloride
 Concen: 9.342 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

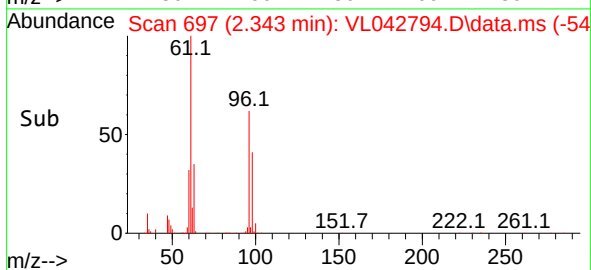
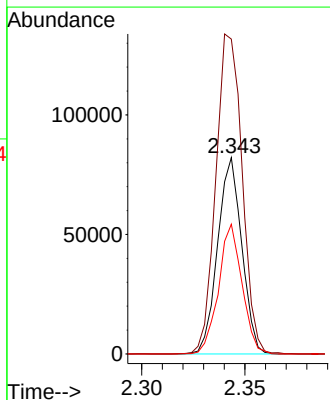
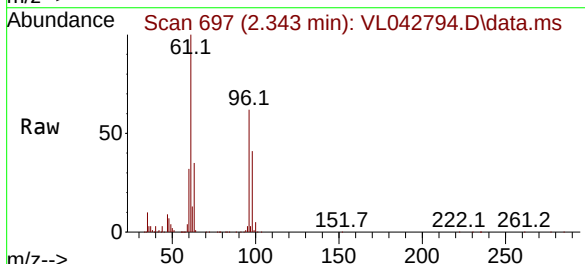
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

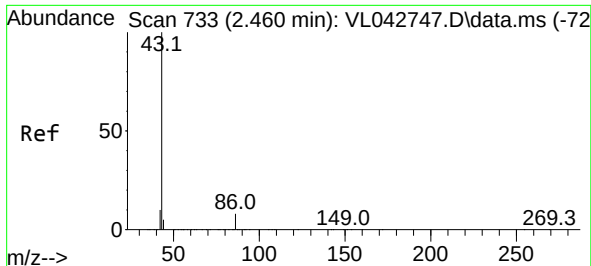
Tgt Ion: 41 Resp: 113975
 Ion Ratio Lower Upper
 41 100
 76 26.6 21.1 31.7
 39 83.0 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.237 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 96 Resp: 66660
 Ion Ratio Lower Upper
 96 100
 61 160.3 142.3 213.5
 98 66.1 50.6 76.0



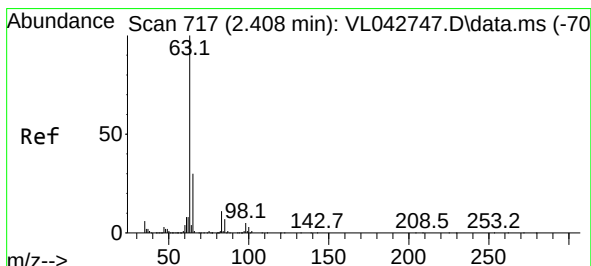
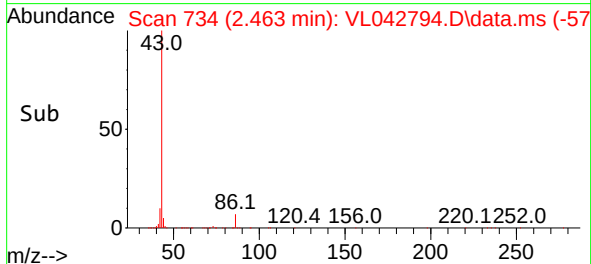
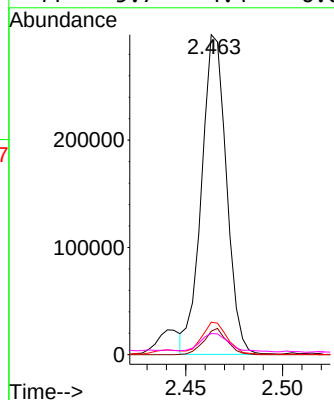
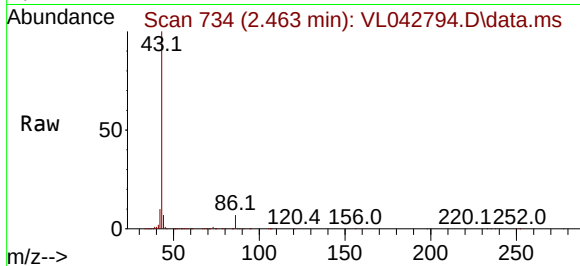


#23
 Vinyl Acetate
 Concen: 11.134 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

Tgt Ion: 43 Resp: 267217

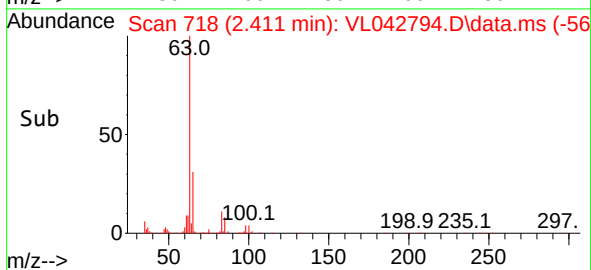
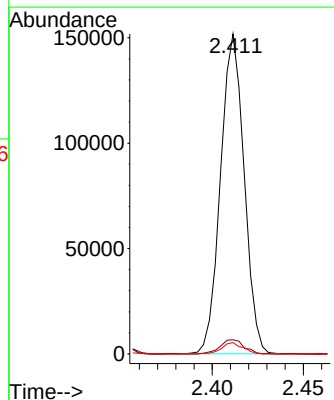
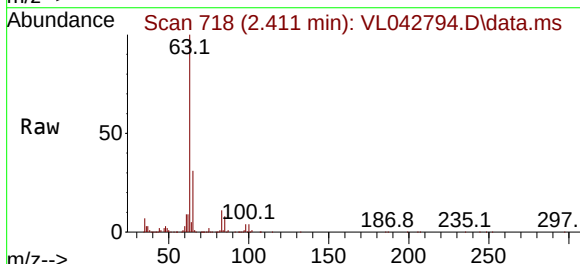
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.1	9.1
42	10.0	7.8	11.8
44	5.7	4.4	6.6

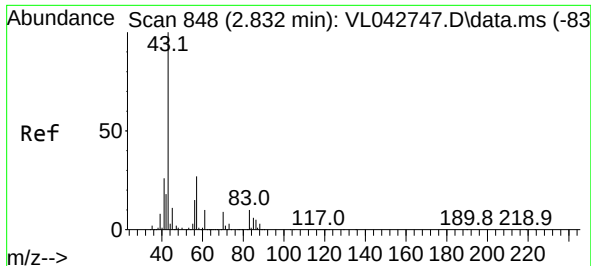


#24
 1,1-Dichloroethane
 Concen: 9.222 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 63 Resp: 136610

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.4
100	3.6	1.6	4.8

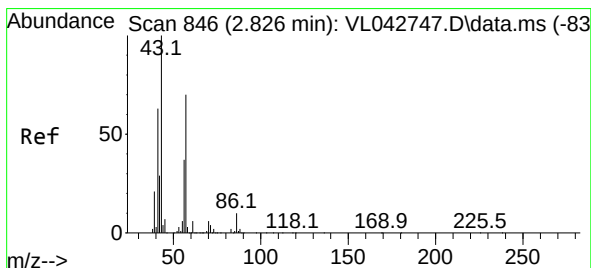
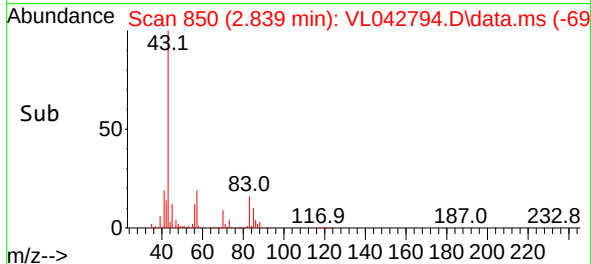
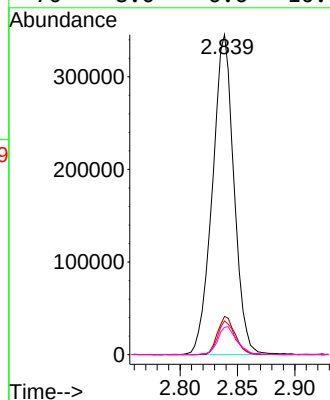
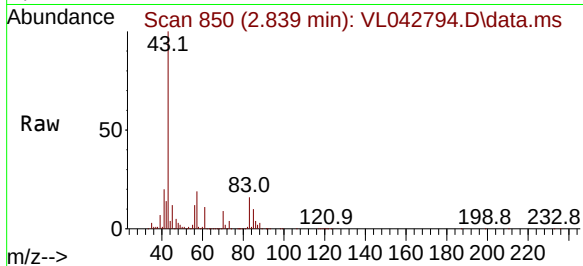




#25
Ethyl Acetate
Concen: 10.270 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

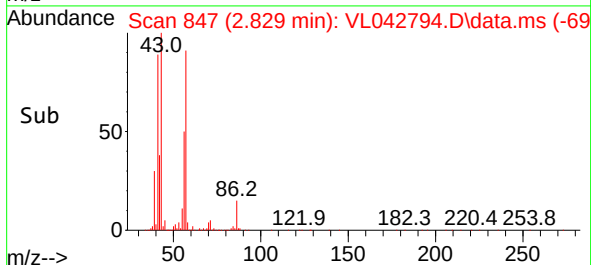
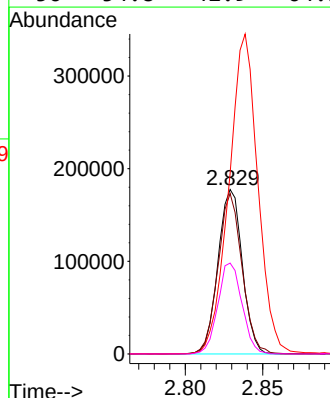
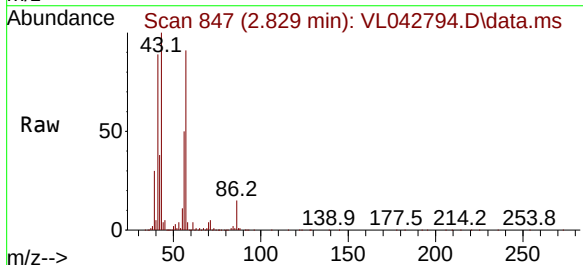
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

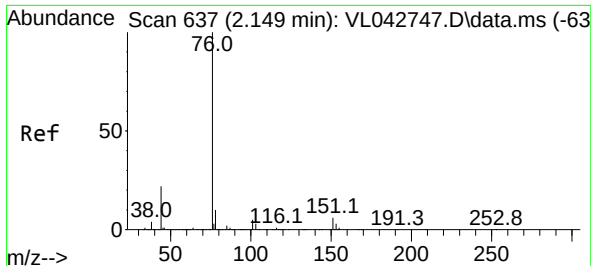
Tgt Ion: 43	Resp: 450028
Ion Ratio	Lower Upper
43 100	
45 9.9	7.8 11.6
61 8.6	6.7 10.1
70 8.0	6.6 10.0



#26
Hexane
Concen: 10.078 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 57	Resp: 193724
Ion Ratio	Lower Upper
57 100	
41 96.9	75.4 113.2
43 233.0	185.0 277.6
56 54.8	42.9 64.3





#27

Carbon Disulfide

Concen: 10.023 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABSD01

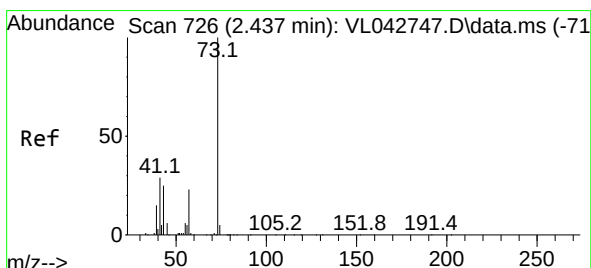
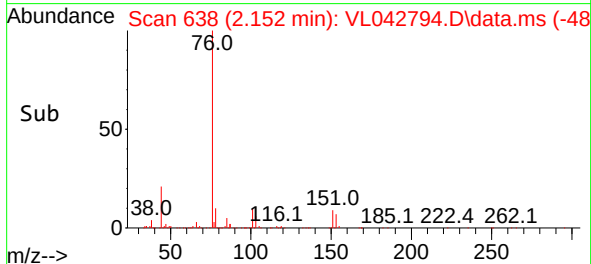
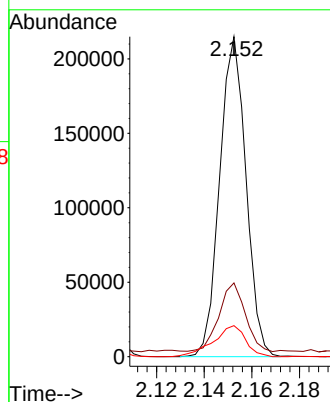
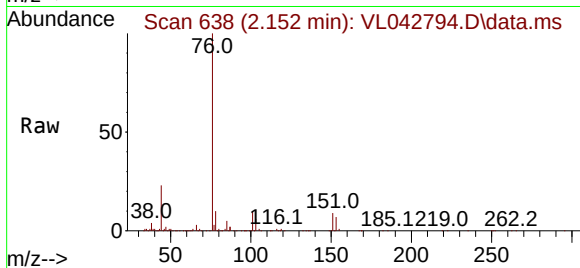
Tgt Ion: 76 Resp: 164945

Ion Ratio Lower Upper

76 100

44 26.1 19.3 28.9

78 12.0 9.9 14.9



#28

Methyl tert-Butyl Ether

Concen: 9.026 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.006 min

Lab File: VL042794.D

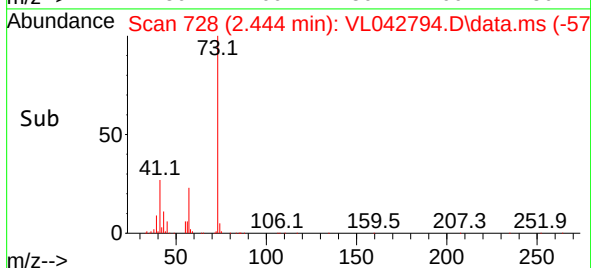
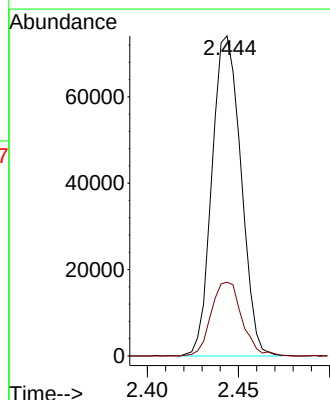
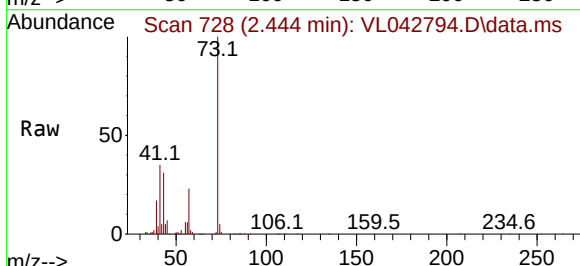
Acq: 31 Jul 2025 13:55

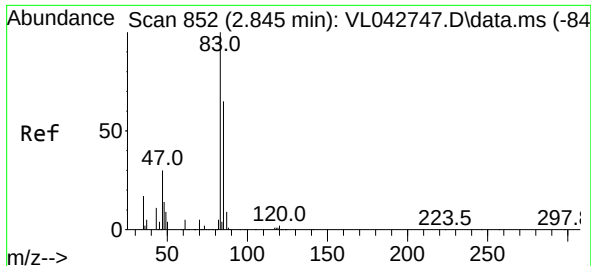
Tgt Ion: 73 Resp: 81968

Ion Ratio Lower Upper

73 100

57 24.4 19.8 29.8





#29

Chloroform

Concen: 10.176 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

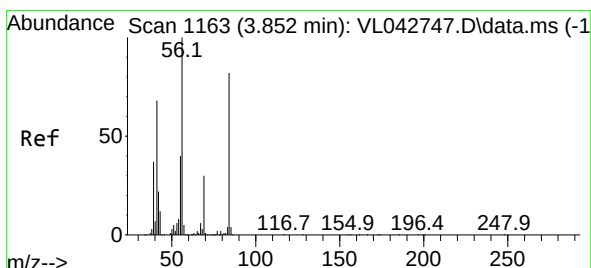
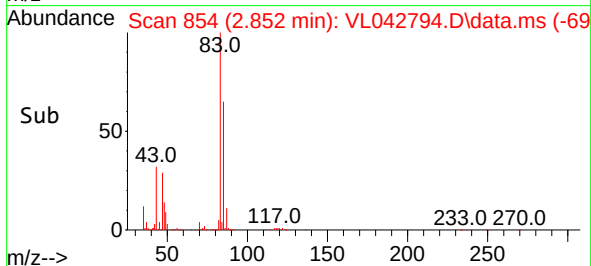
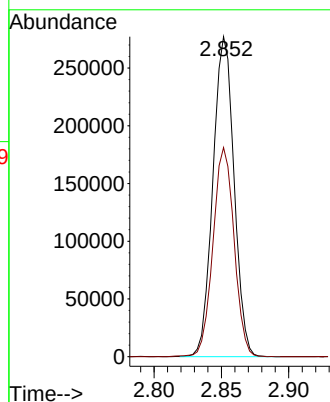
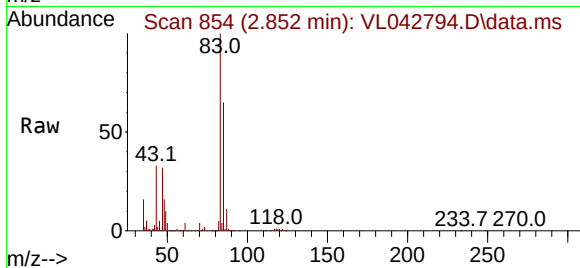
VL0731ABSD01

Tgt Ion: 83 Resp: 302251

Ion Ratio Lower Upper

83 100

85 65.4 52.2 78.2



#30

Cyclohexane

Concen: 9.705 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

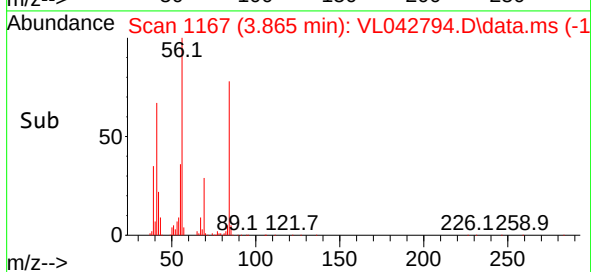
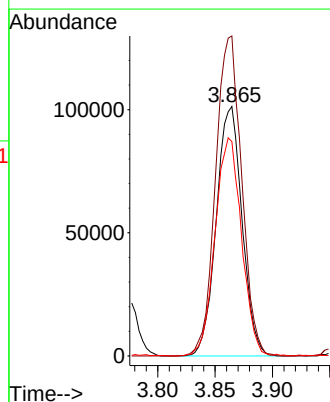
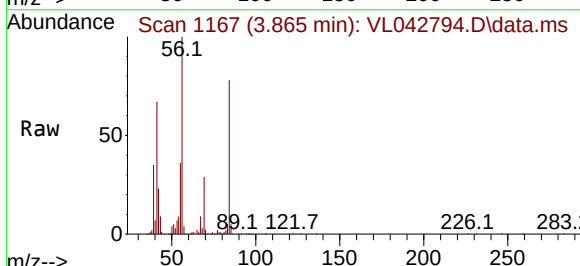
Tgt Ion: 84 Resp: 158206

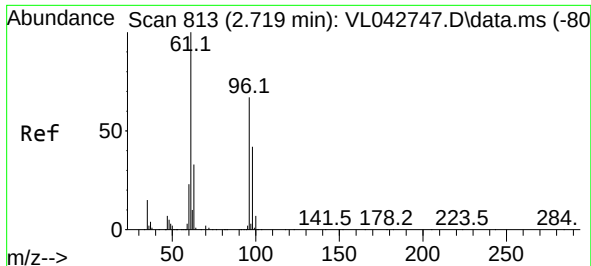
Ion Ratio Lower Upper

84 100

56 129.8 97.5 146.3

41 90.1 67.2 100.8

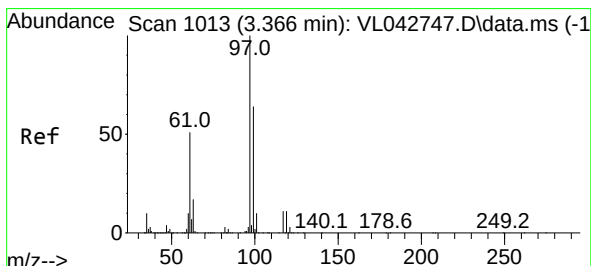
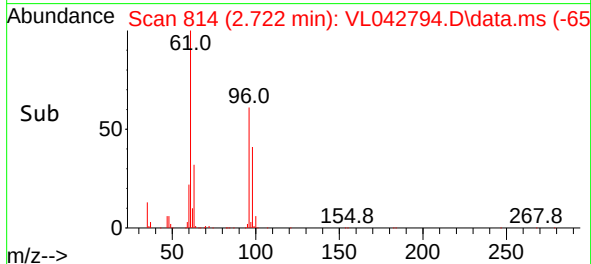
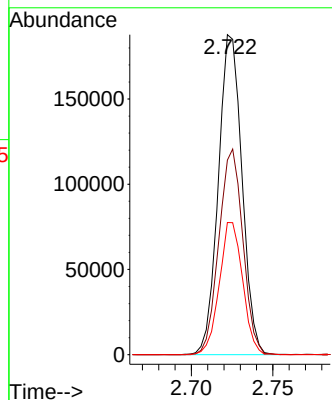
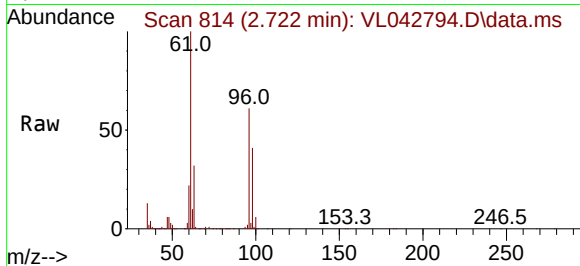




#31
 cis-1,2-Dichloroethene
 Concen: 9.599 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

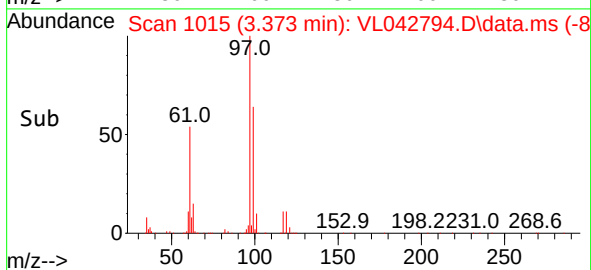
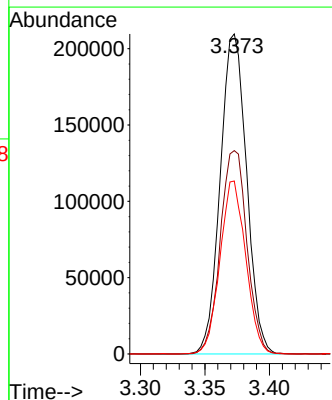
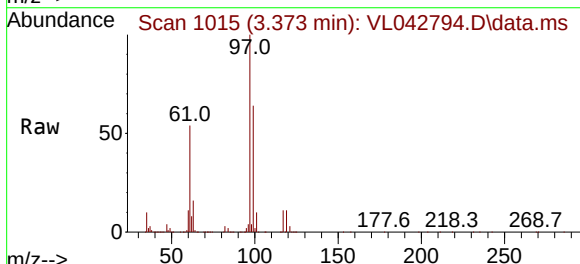
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

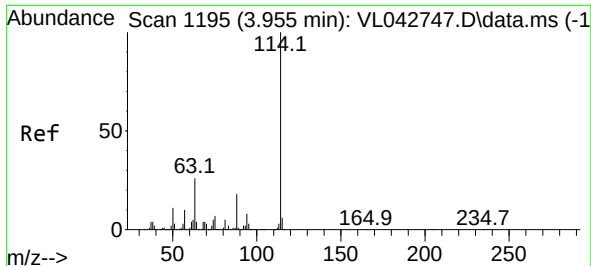
Tgt Ion: 61 Resp: 189601
 Ion Ratio Lower Upper
 61 100
 96 60.8 53.5 80.3
 98 41.3 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.605 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 97 Resp: 297175
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.6
 61 53.0 40.9 61.3

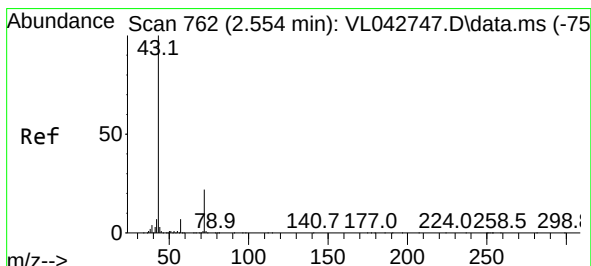
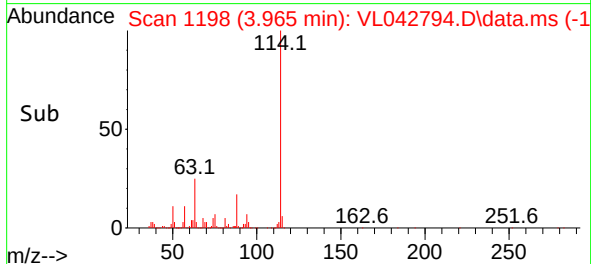
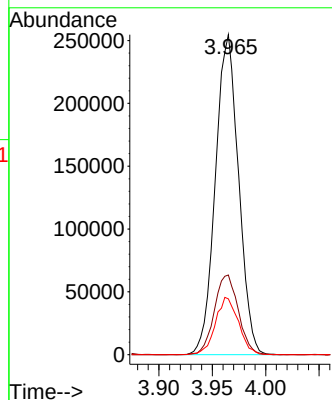
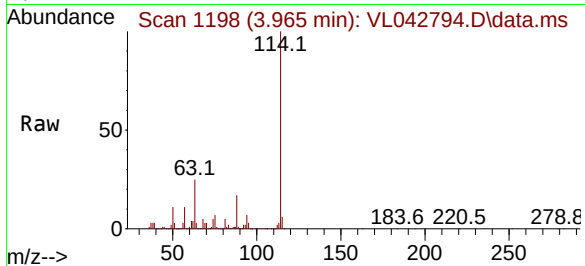




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

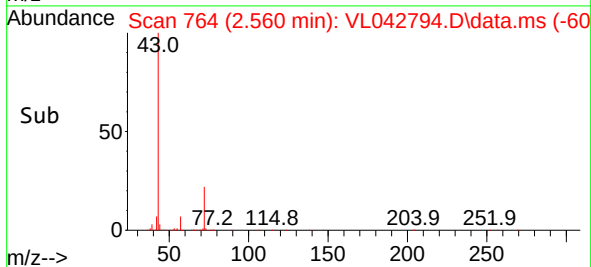
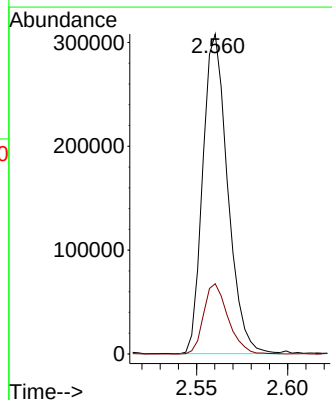
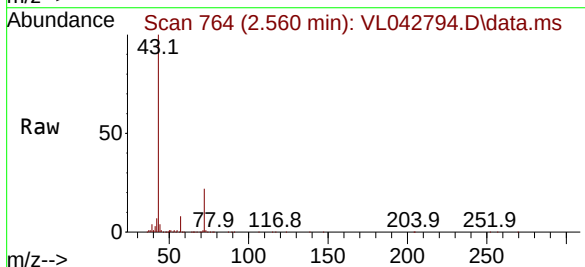
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

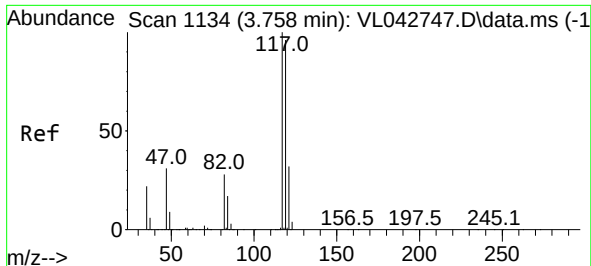
Tgt Ion:114 Resp: 385270
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.8 14.0 21.0



#34
2-Butanone
Concen: 10.737 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 43 Resp: 293015
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0

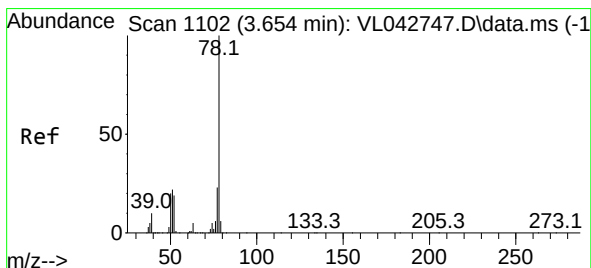
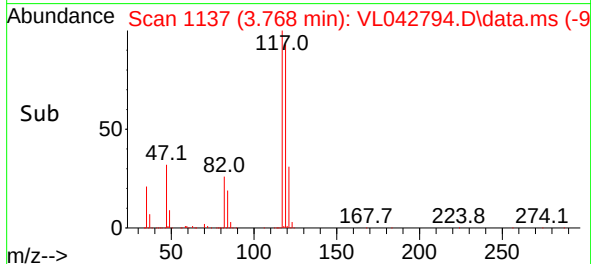
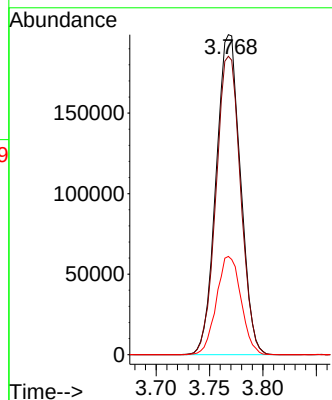
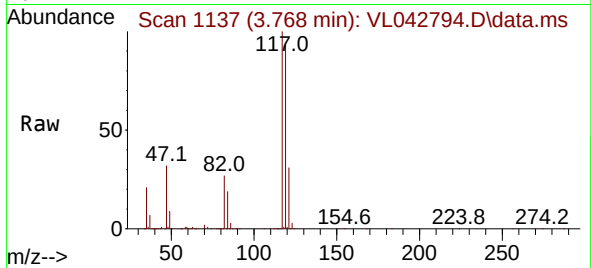




#35
Carbon Tetrachloride
Concen: 11.014 ppbv
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

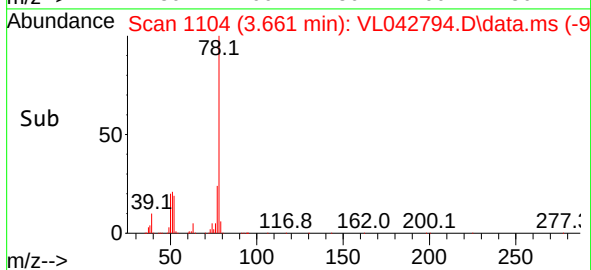
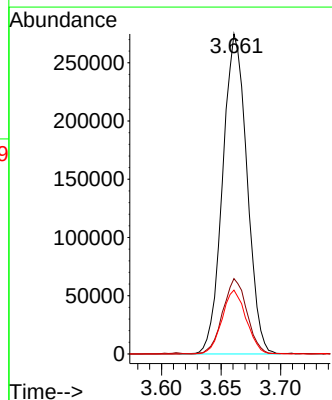
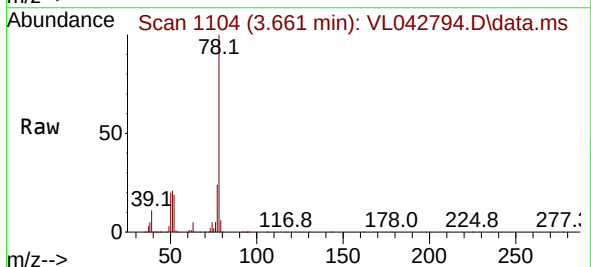
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

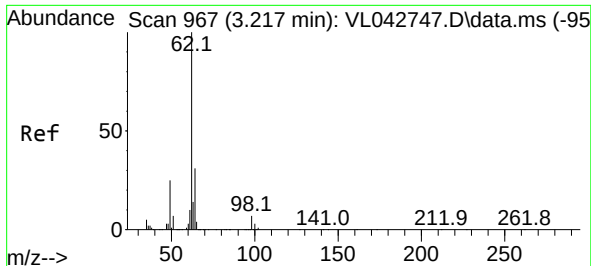
Tgt Ion:117 Resp: 315193
Ion Ratio Lower Upper
117 100
119 93.2 77.1 115.7
121 30.7 25.5 38.3



#36
Benzene
Concen: 10.677 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 78 Resp: 389839
Ion Ratio Lower Upper
78 100
77 23.4 18.5 27.7
50 19.9 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.756 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

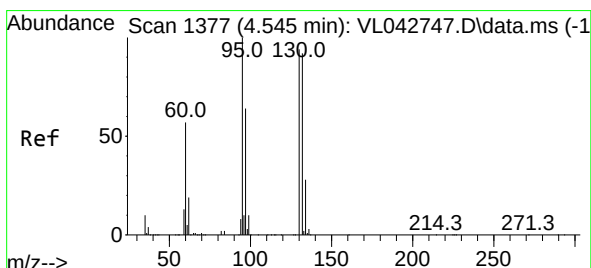
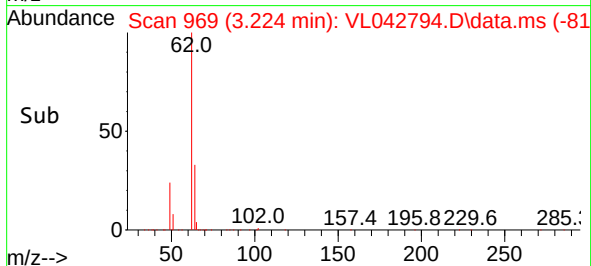
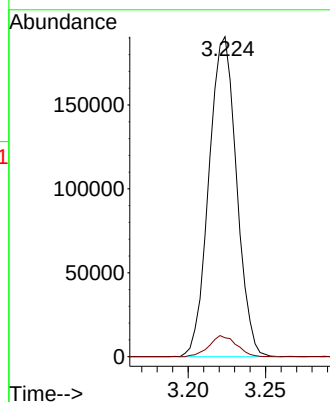
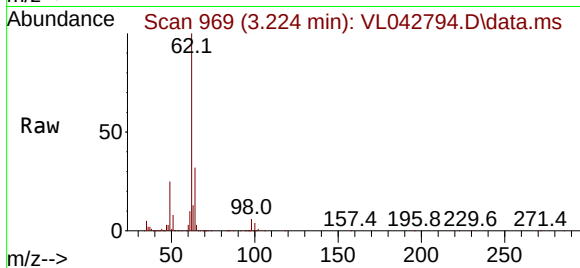
VL0731ABSD01

Tgt Ion: 62 Resp: 236593

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 9.974 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:130 Resp: 174966

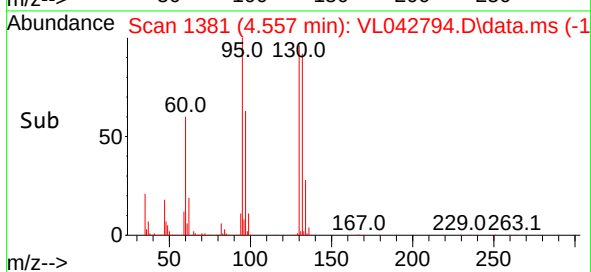
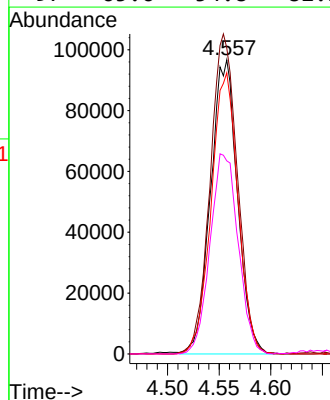
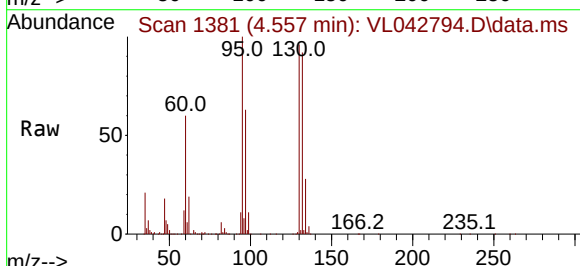
Ion Ratio Lower Upper

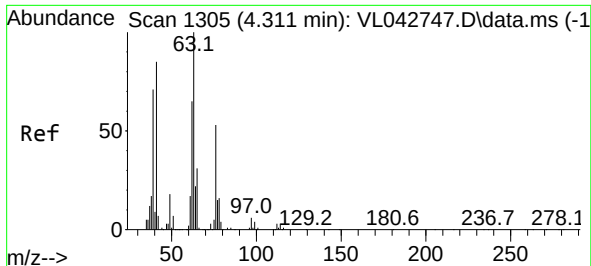
130 100

95 104.0 85.4 128.2

132 95.6 78.2 117.2

97 65.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.741 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

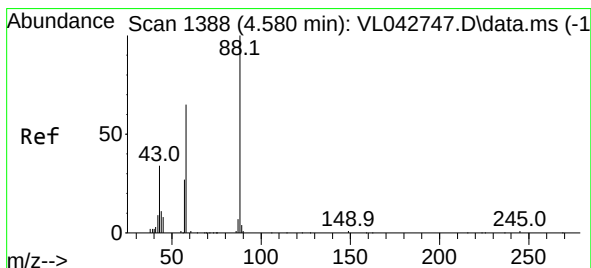
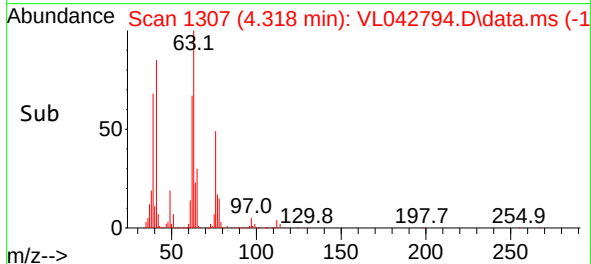
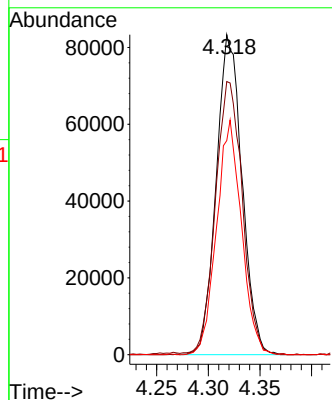
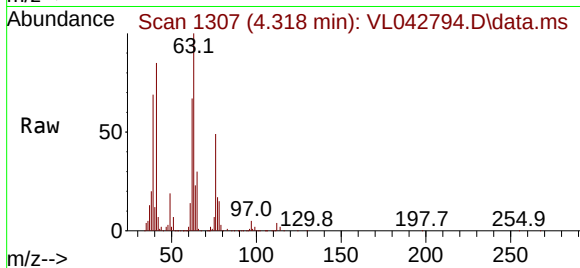
Tgt Ion: 63 Resp: 144769

Ion Ratio Lower Upper

63 100

41 84.8 68.2 102.4

62 66.9 52.0 78.0



#40

1,4-Dioxane

Concen: 9.866 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 88 Resp: 61985

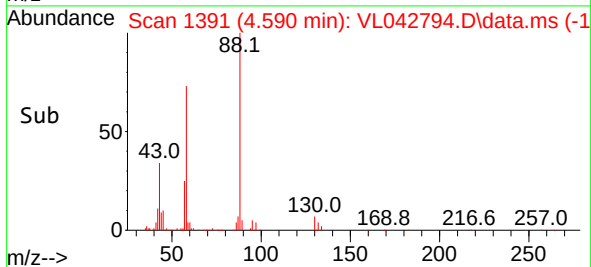
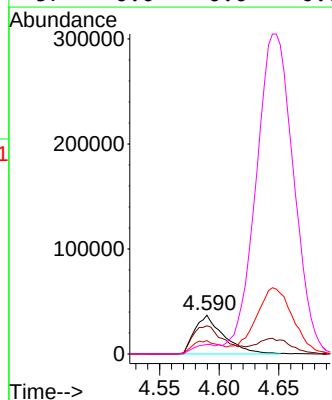
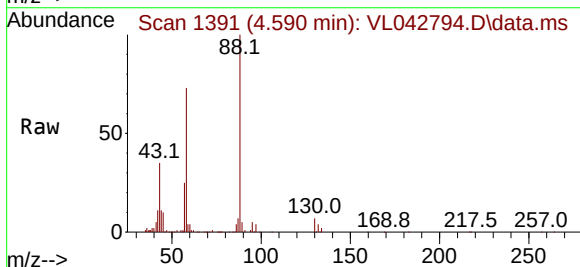
Ion Ratio Lower Upper

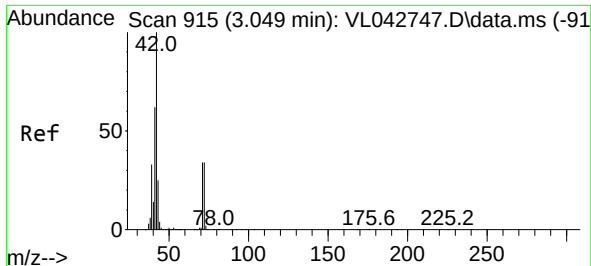
88 100

58 74.7 58.8 88.2

43 32.4 28.9 43.3

57 0.0 0.0 0.0

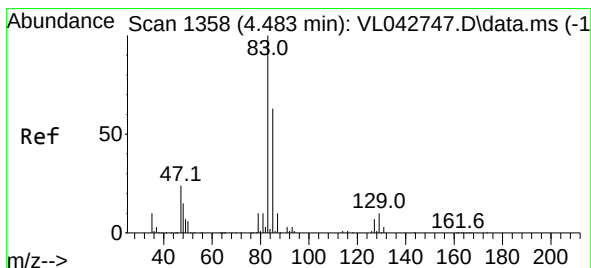
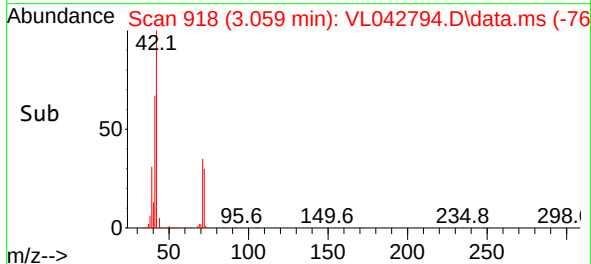
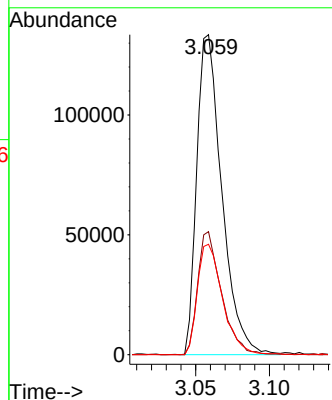
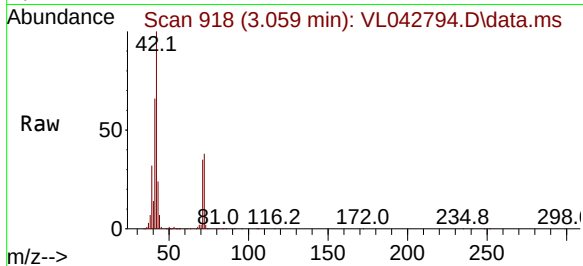




#41
Tetrahydrofuran
Concen: 11.374 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

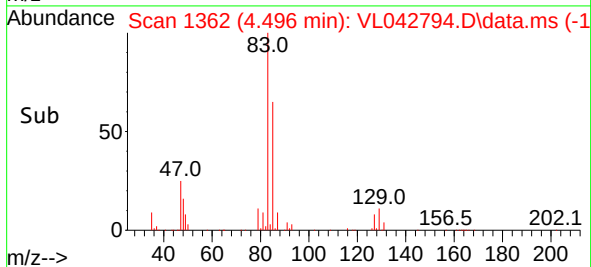
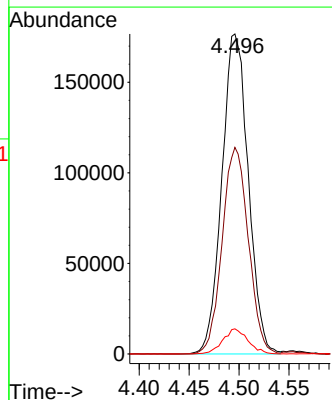
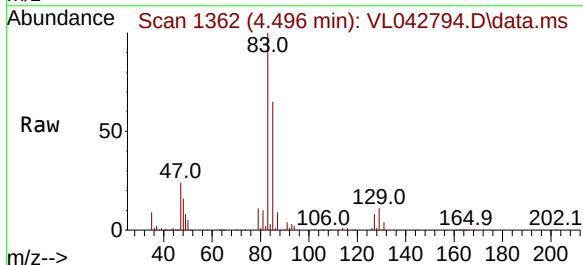
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

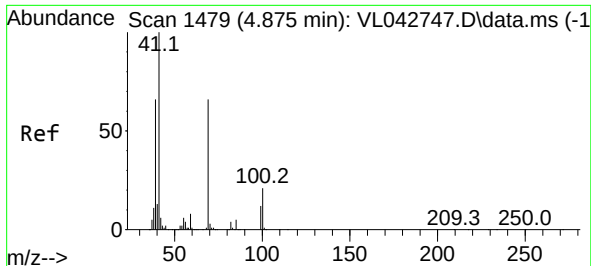
Tgt Ion: 42 Resp: 157948
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 34.7 28.6 43.0



#42
Bromodichloromethane
Concen: 11.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 83 Resp: 324724
Ion Ratio Lower Upper
83 100
85 64.6 50.2 75.4
127 7.9 5.4 8.2

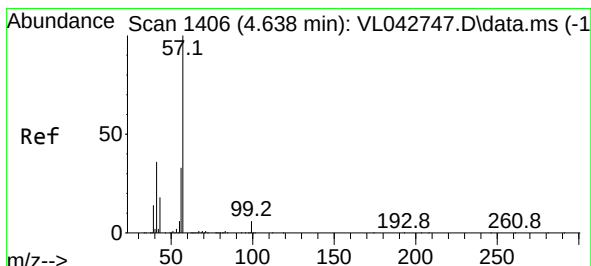
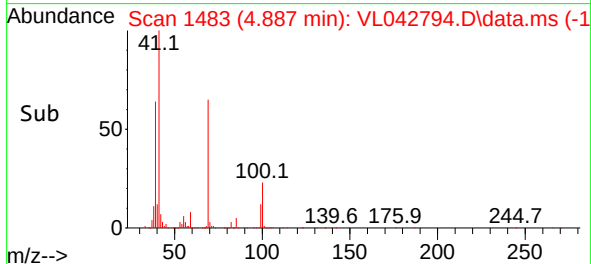
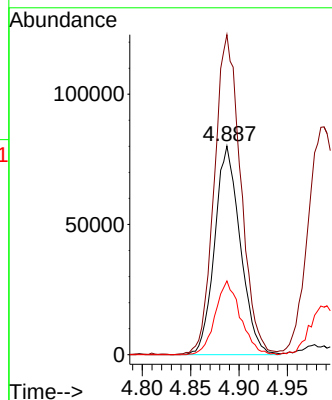
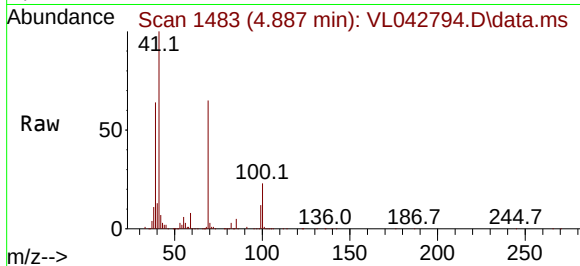




#43
Methyl Methacrylate
Concen: 11.338 ppbv
RT: 4.887 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

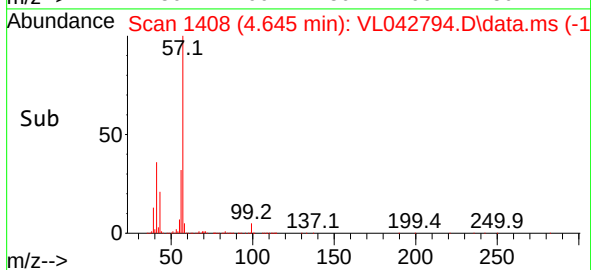
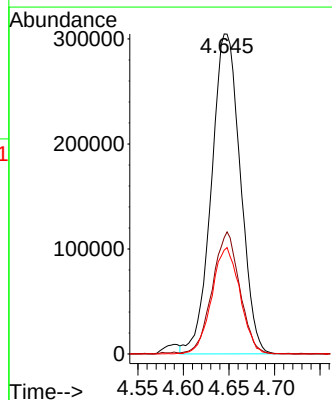
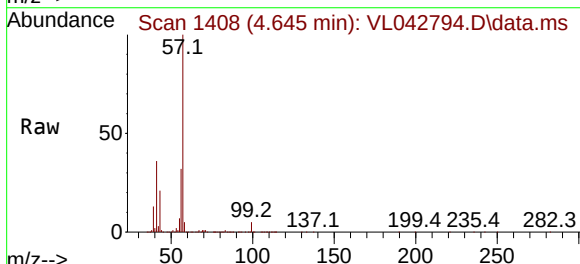
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

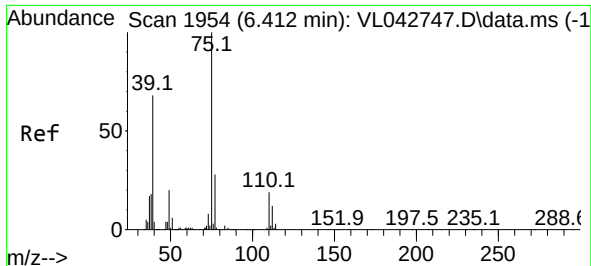
Tgt Ion: 69 Resp: 147145
Ion Ratio Lower Upper
69 100
41 158.7 125.7 188.5
100 34.8 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 11.311 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 57 Resp: 673176
Ion Ratio Lower Upper
57 100
41 36.6 28.3 42.5
56 32.6 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 10.976 ppbv

RT: 6.422 min Scan# 1954

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

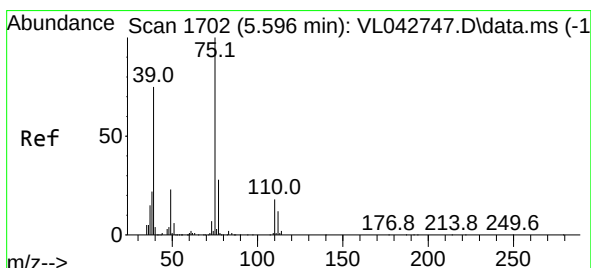
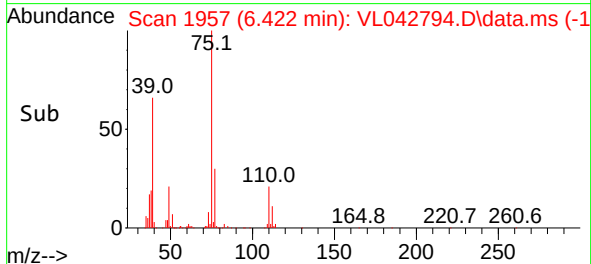
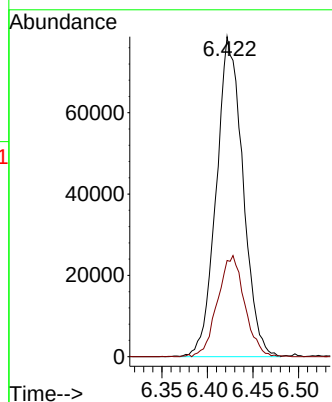
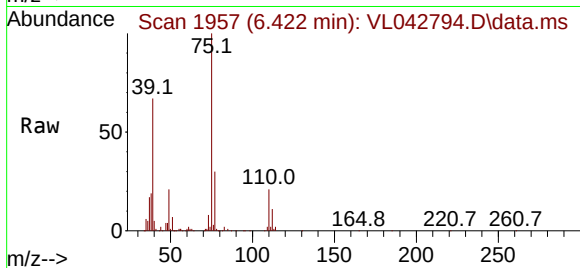
VL0731ABSD01

Tgt Ion: 75 Resp: 159751

Ion Ratio Lower Upper

75 100

77 30.1 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 11.160 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

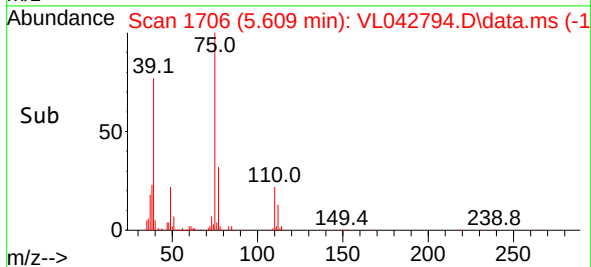
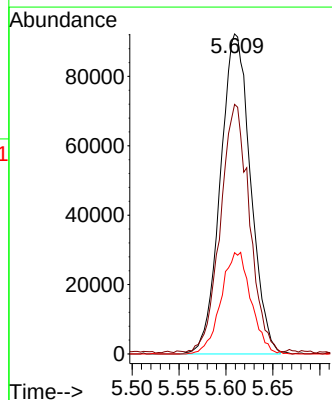
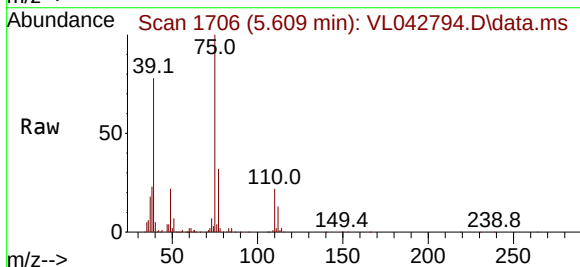
Tgt Ion: 75 Resp: 205816

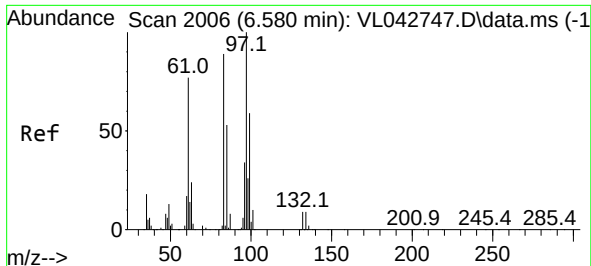
Ion Ratio Lower Upper

75 100

39 77.2 60.2 90.2

77 31.7 22.6 34.0

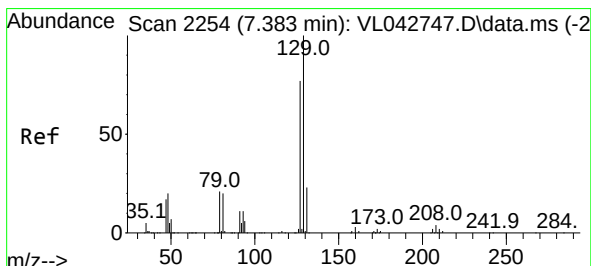
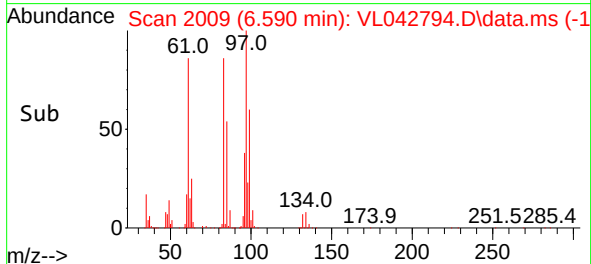
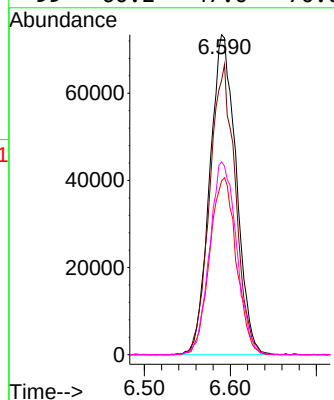
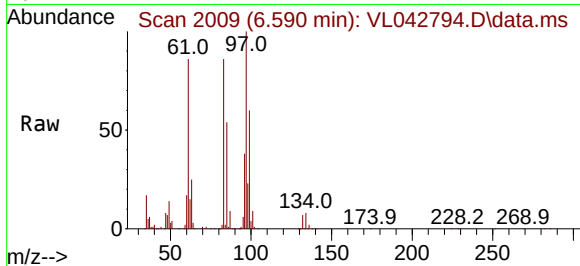




#47
1,1,2-Trichloroethane
Concen: 10.873 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

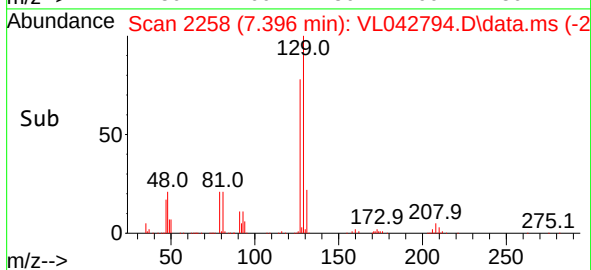
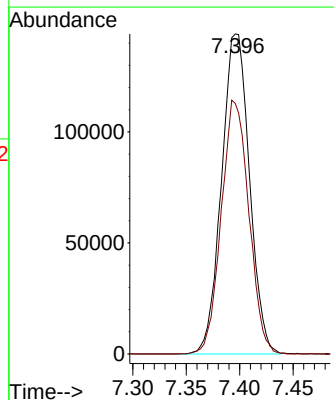
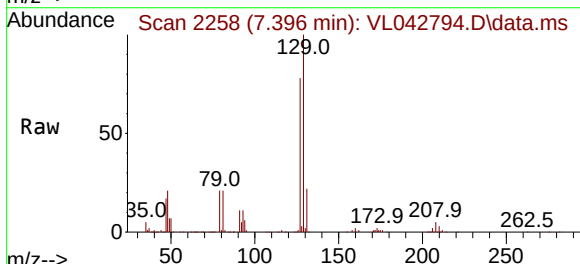
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

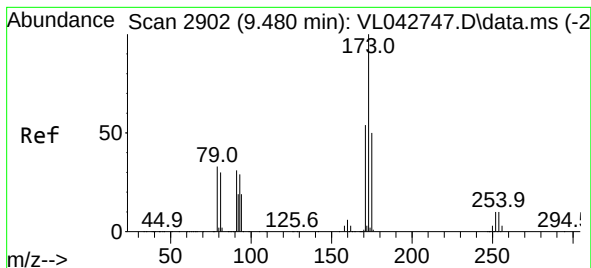
Tgt Ion: 97	Resp: 156216
Ion Ratio	Lower Upper
97 100	
83 85.7	71.1 106.7
85 54.3	43.0 64.4
99 60.2	47.0 70.6



#48
Dibromochloromethane
Concen: 11.510 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:129	Resp: 262522
Ion Ratio	Lower Upper
129 100	
127 78.2	38.7 116.1





#49

Bromoform

Concen: 11.811 ppbv

RT: 9.493 min Scan# 2906

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

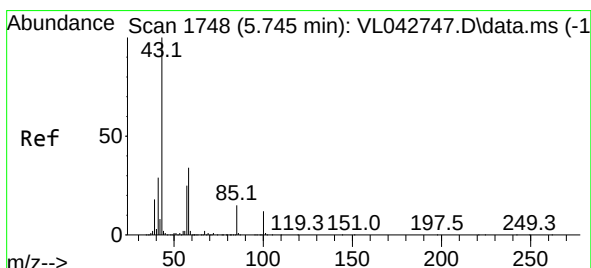
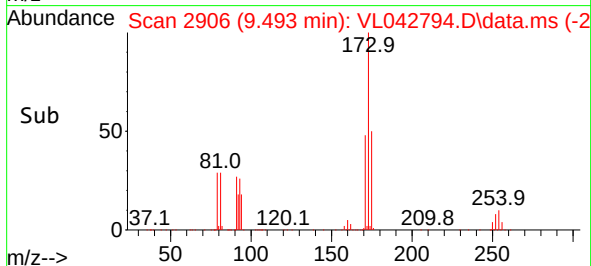
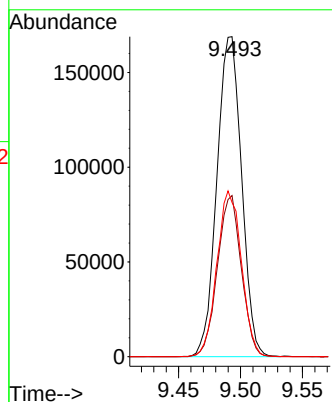
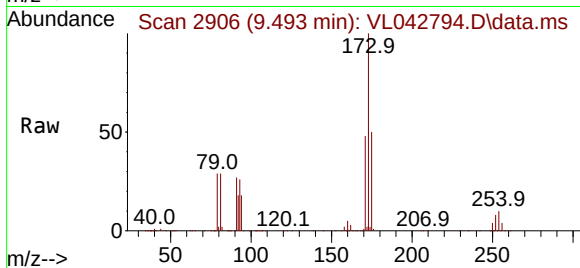
Tgt Ion:173 Resp: 234893

Ion Ratio Lower Upper

173 100

175 48.8 38.4 57.6

171 51.5 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 11.467 ppbv

RT: 5.761 min Scan# 1753

Delta R.T. 0.016 min

Lab File: VL042794.D

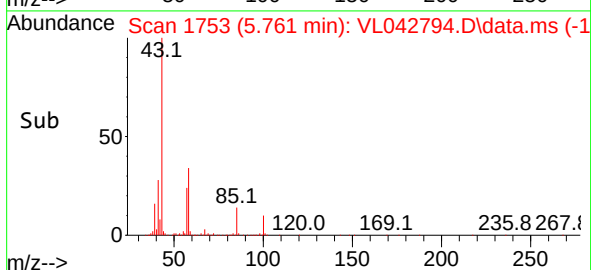
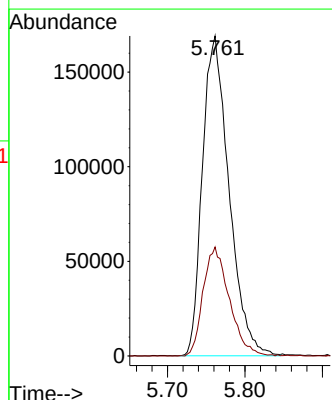
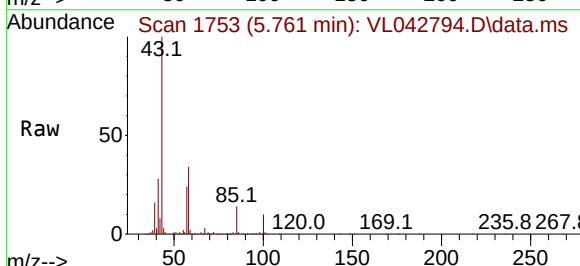
Acq: 31 Jul 2025 13:55

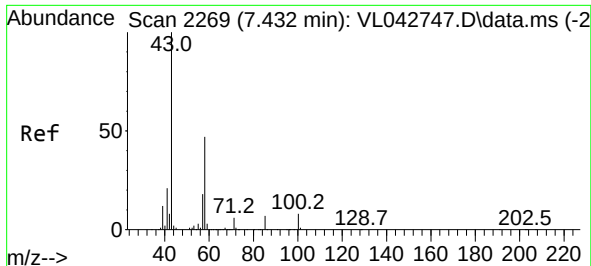
Tgt Ion: 43 Resp: 403132

Ion Ratio Lower Upper

43 100

58 33.5 27.8 41.8

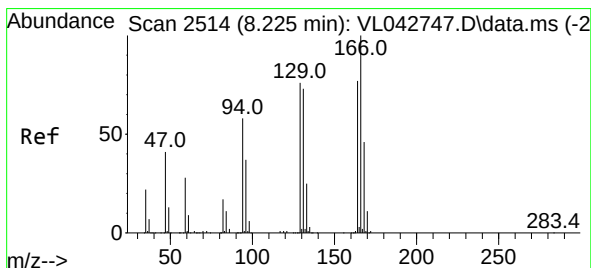
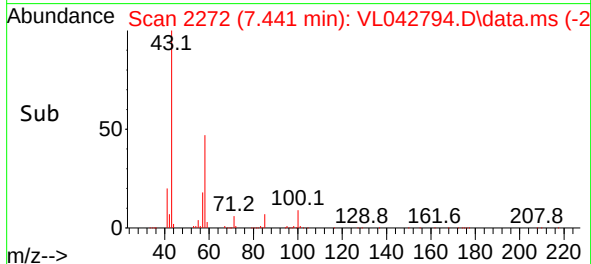
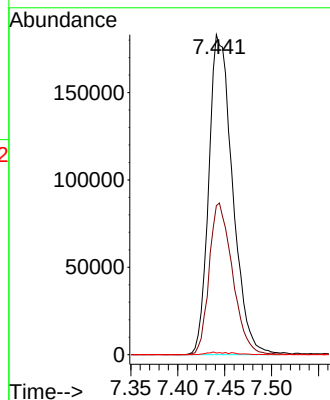
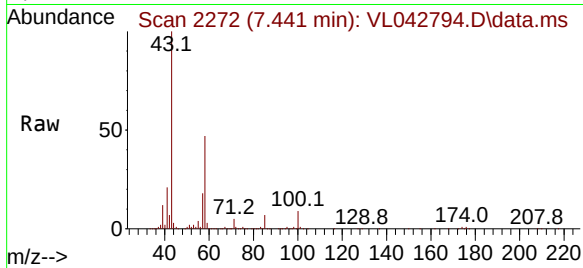




#51
2-Hexanone
Concen: 12.152 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

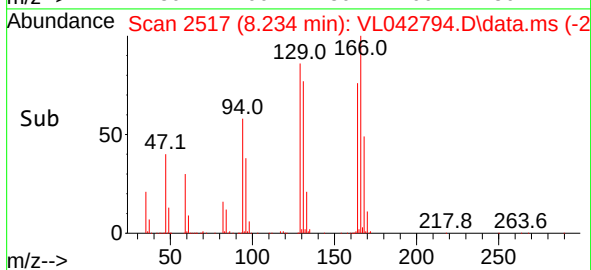
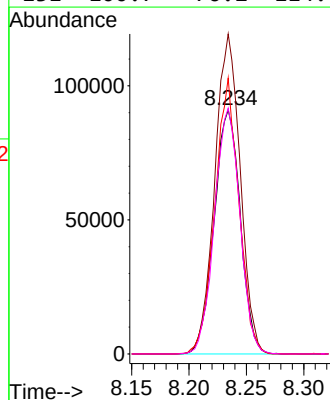
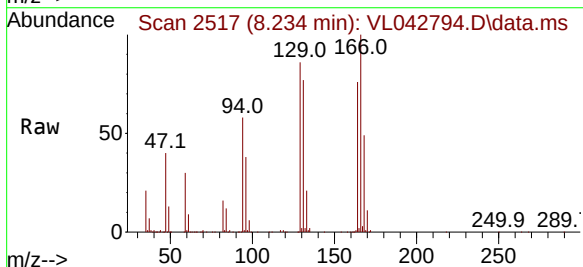
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

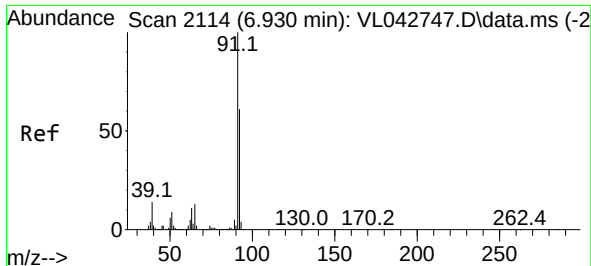
Tgt Ion: 43 Resp: 322822
Ion Ratio Lower Upper
43 100
58 46.5 38.0 57.0
98 0.9 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.518 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.009 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 164 Resp: 144051
Ion Ratio Lower Upper
164 100
166 131.1 104.0 156.0
129 112.9 79.2 118.8
131 100.7 76.2 114.4

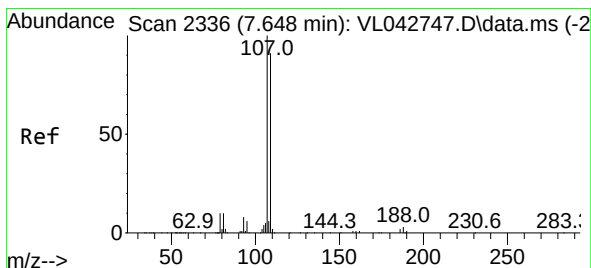
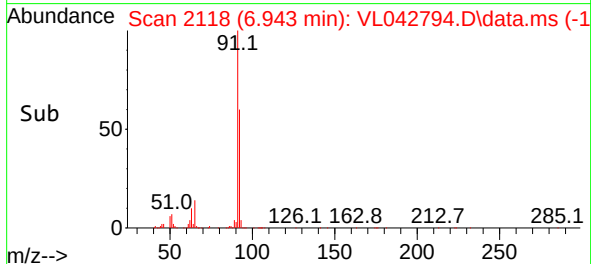
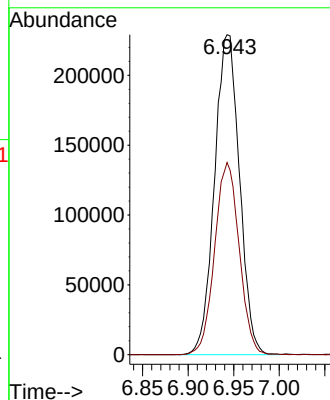
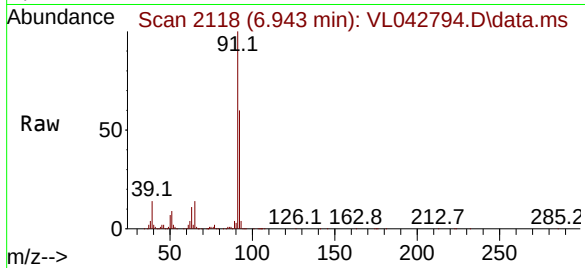




#53
Toluene
Concen: 11.135 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

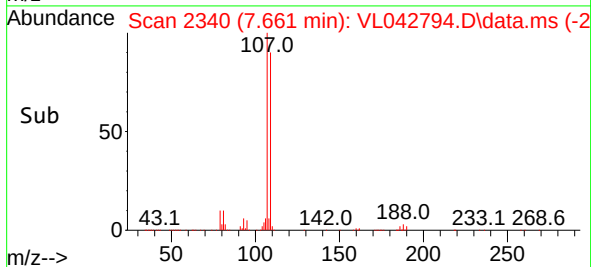
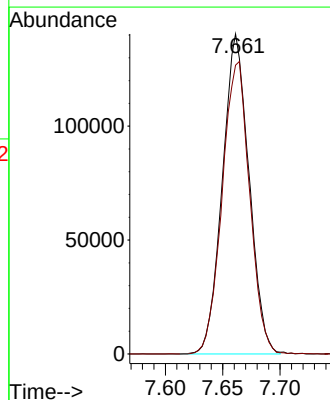
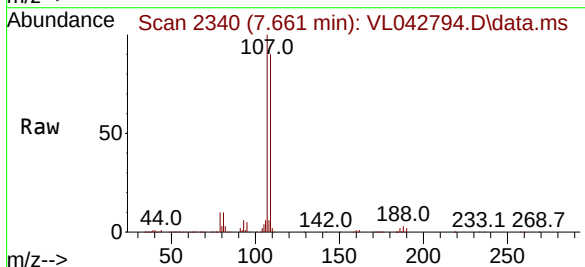
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

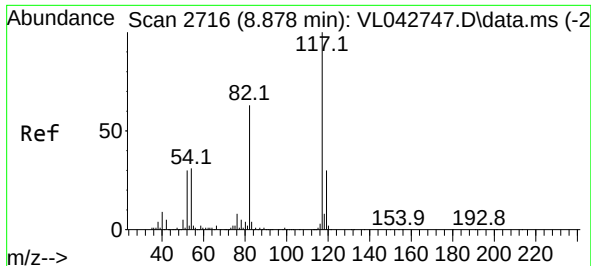
Tgt Ion: 91 Resp: 436601
Ion Ratio Lower Upper
91 100
92 59.1 48.0 72.0



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 107 Resp: 226779
Ion Ratio Lower Upper
107 100
109 90.2 72.7 109.1

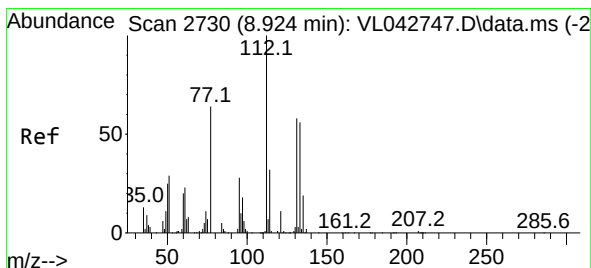
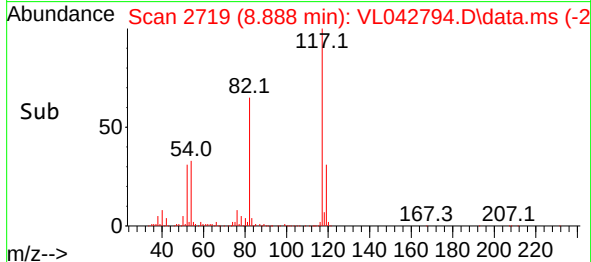
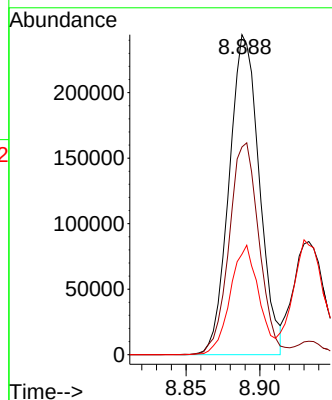
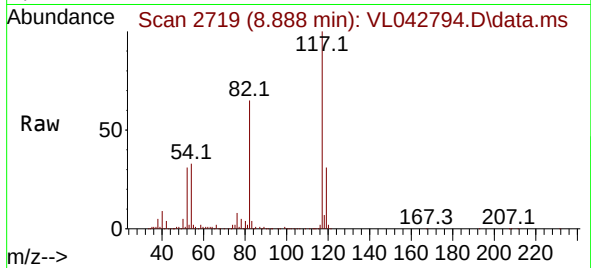




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

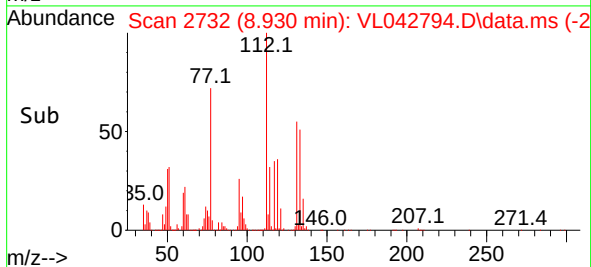
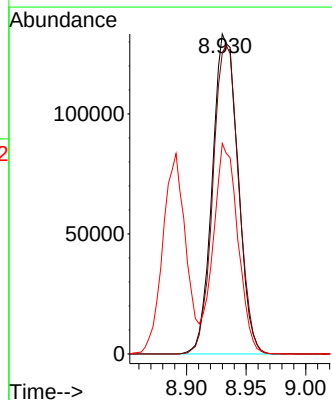
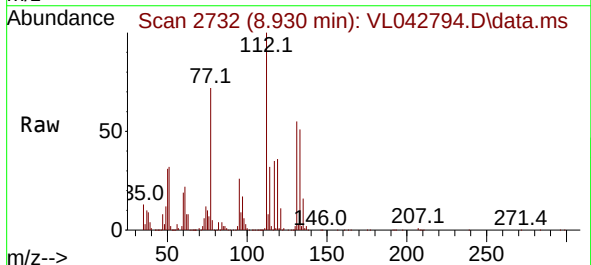
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

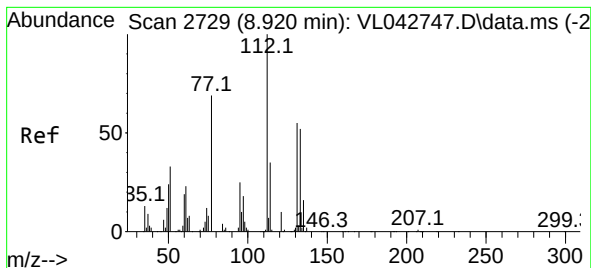
Tgt Ion:117 Resp: 347681
Ion Ratio Lower Upper
117 100
82 69.6 53.3 79.9
119 33.5 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 11.035 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:131 Resp: 199484
Ion Ratio Lower Upper
131 100
133 96.5 76.8 115.2
119 64.2 49.7 74.5





#57

Chlorobenzene

Concen: 10.519 ppbv

RT: 8.930 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABSD01

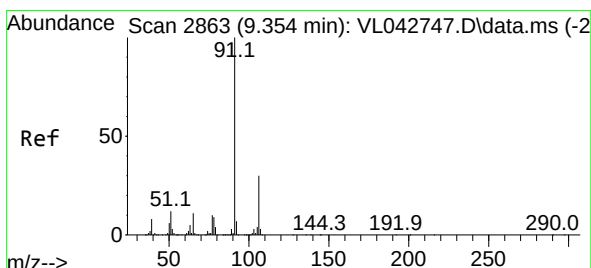
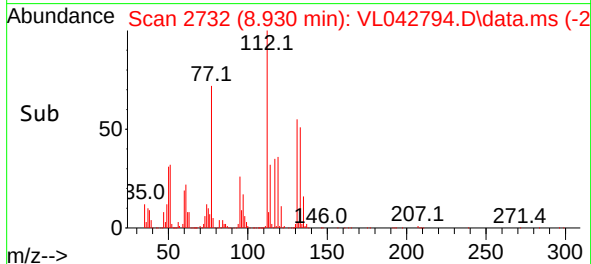
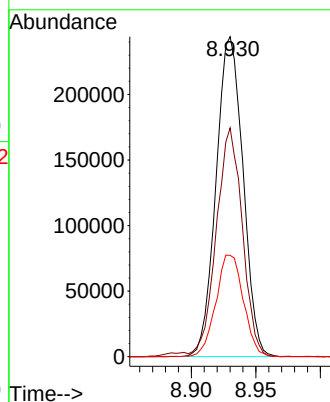
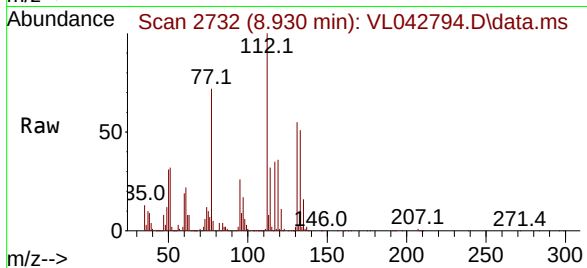
Tgt Ion:112 Resp: 353946

Ion Ratio Lower Upper

112 100

77 71.6 56.4 84.6

114 31.6 31.2 38.2



#58

Ethyl Benzene

Concen: 11.212 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.010 min

Lab File: VL042794.D

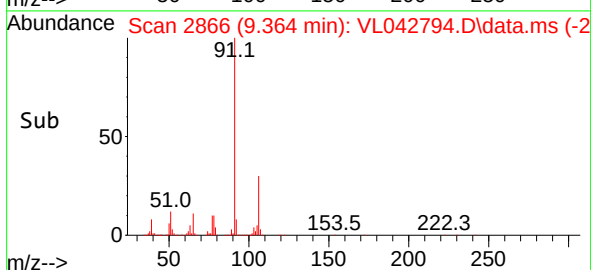
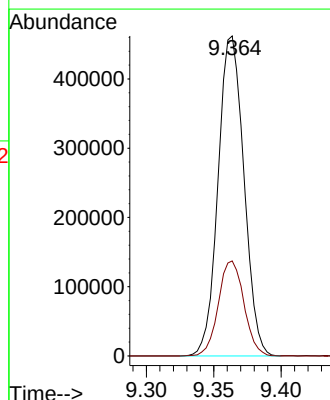
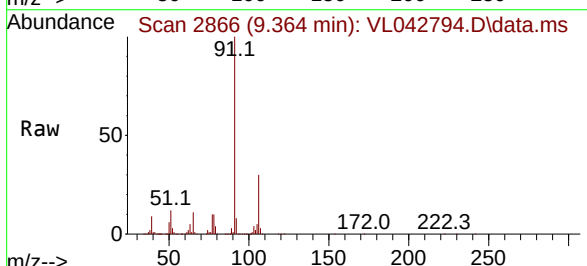
Acq: 31 Jul 2025 13:55

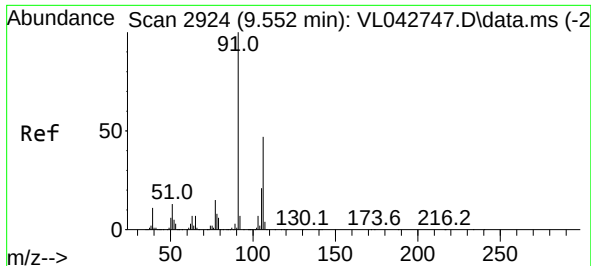
Tgt Ion: 91 Resp: 615615

Ion Ratio Lower Upper

91 100

106 29.7 23.8 35.6





#59

m/p-Xylene

Concen: 11.643 ppbv

RT: 9.558 min Scan# 2924

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

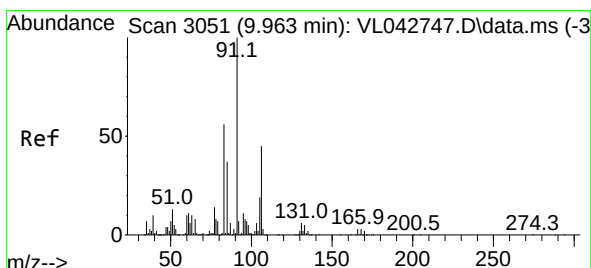
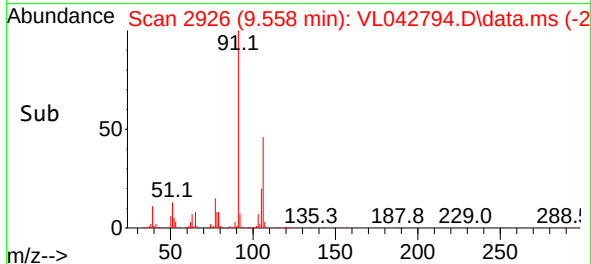
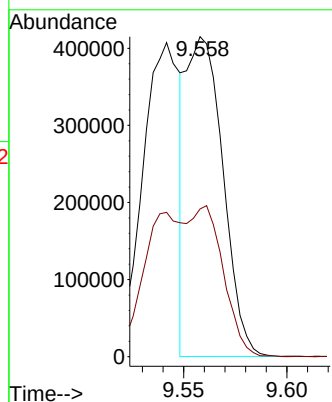
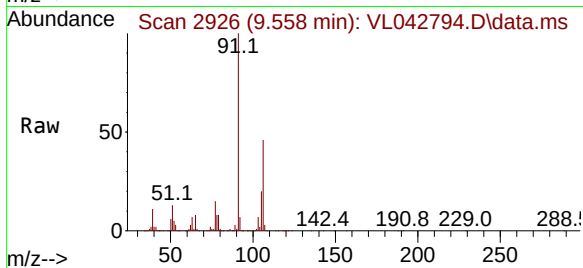
VL0731ABSD01

Tgt Ion: 91 Resp: 510911

Ion Ratio Lower Upper

91 100

106 93.2 37.4 56.2#



#60

o-Xylene

Concen: 11.615 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.006 min

Lab File: VL042794.D

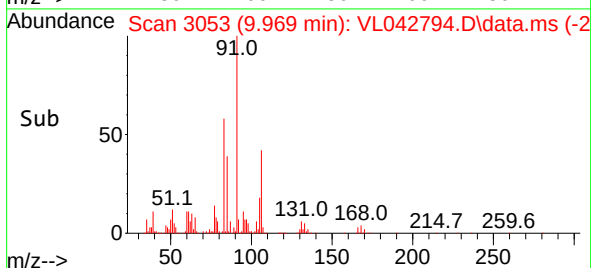
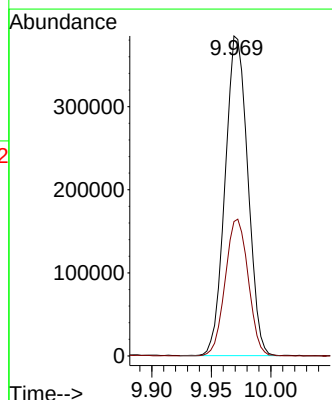
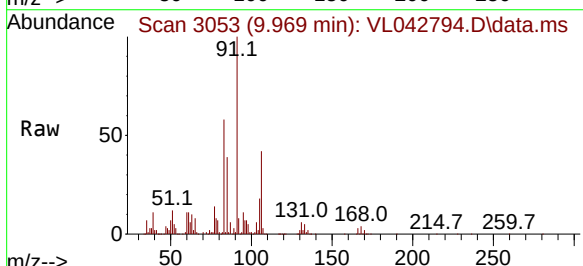
Acq: 31 Jul 2025 13:55

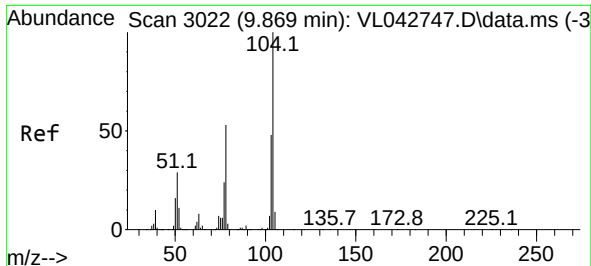
Tgt Ion: 91 Resp: 509306

Ion Ratio Lower Upper

91 100

106 43.6 22.0 66.0

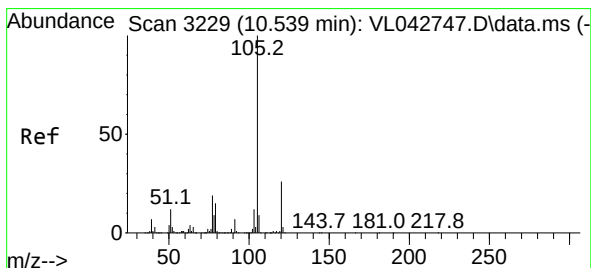
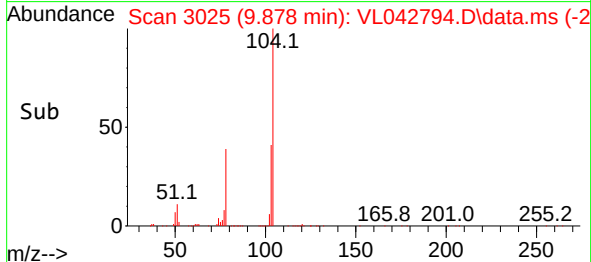
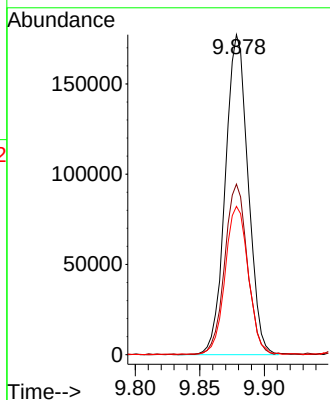
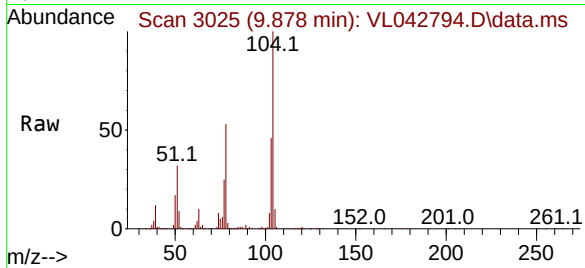




#61
Styrene
Concen: 11.813 ppbv
RT: 9.878 min Scan# 3022
Delta R.T. 0.009 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

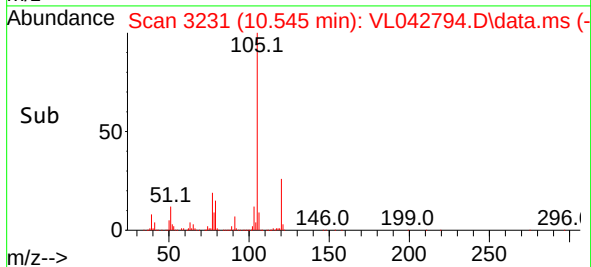
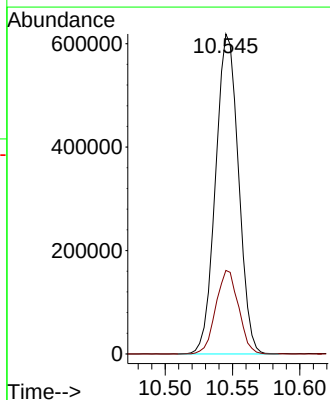
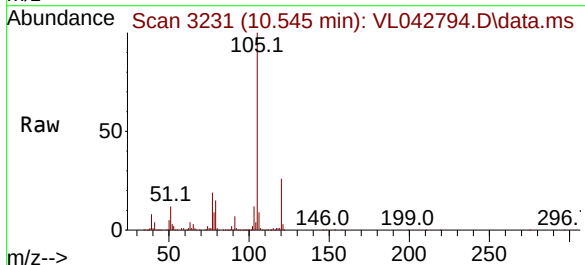
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

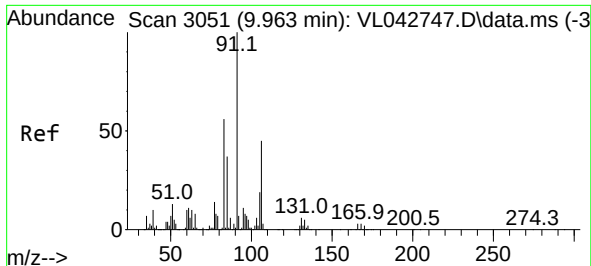
Tgt Ion:104 Resp: 217878
Ion Ratio Lower Upper
104 100
78 53.1 41.5 62.3
103 47.6 37.5 56.3



#62
Isopropylbenzene
Concen: 11.304 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:105 Resp: 731077
Ion Ratio Lower Upper
105 100
120 25.9 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 10.323 ppbv

RT: 9.969 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABSD01

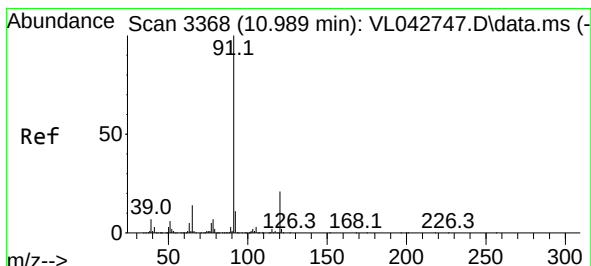
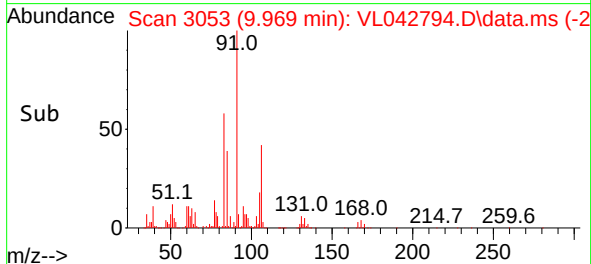
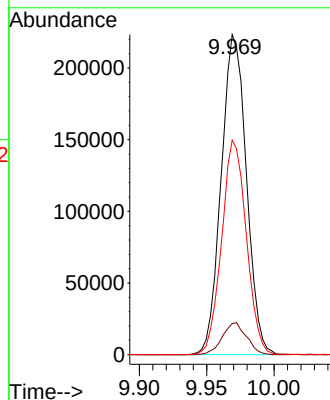
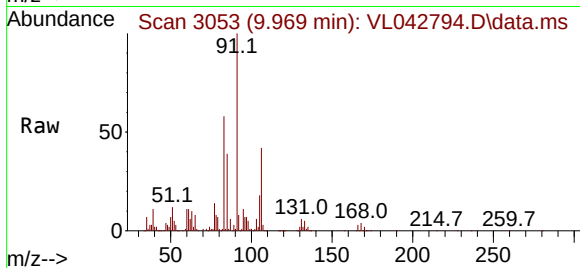
Tgt Ion: 83 Resp: 290577

Ion Ratio Lower Upper

83 100

131 9.6 5.0 15.0

85 65.6 32.6 97.7



#64

n-propylbenzene

Concen: 11.637 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.006 min

Lab File: VL042794.D

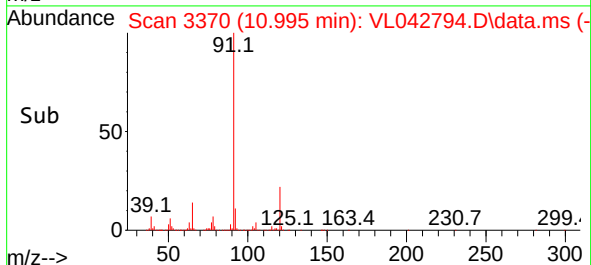
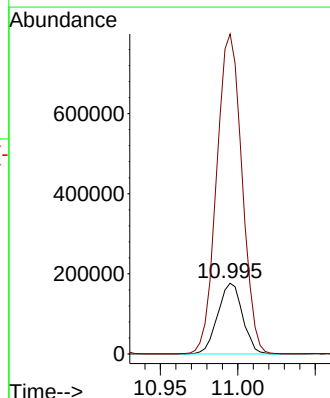
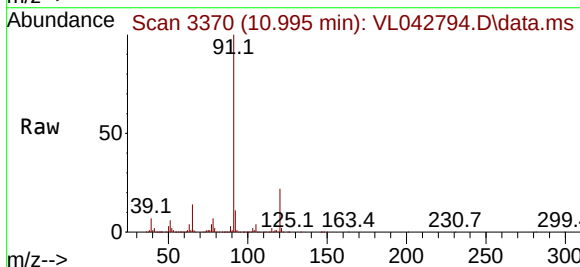
Acq: 31 Jul 2025 13:55

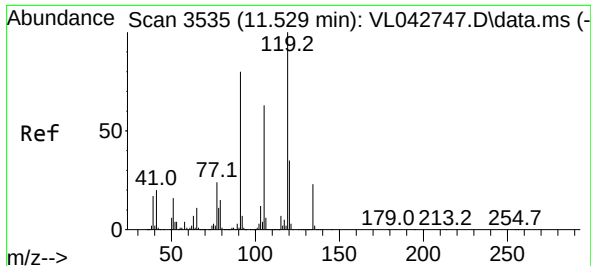
Tgt Ion: 120 Resp: 196210

Ion Ratio Lower Upper

120 100

91 464.6 372.7 559.1

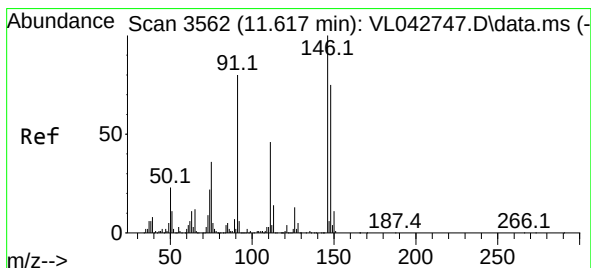
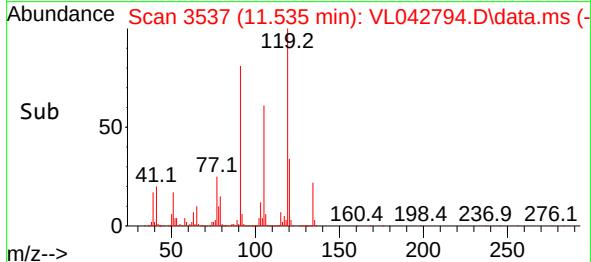
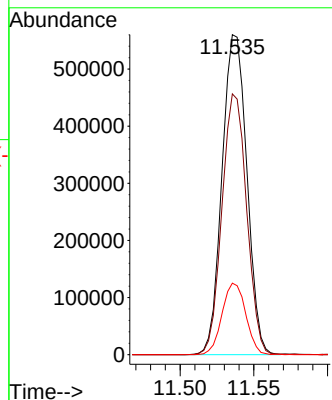
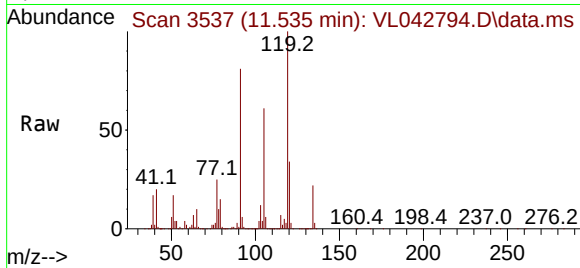




#65
tert-Butylbenzene
Concen: 11.427 ppbv
RT: 11.535 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

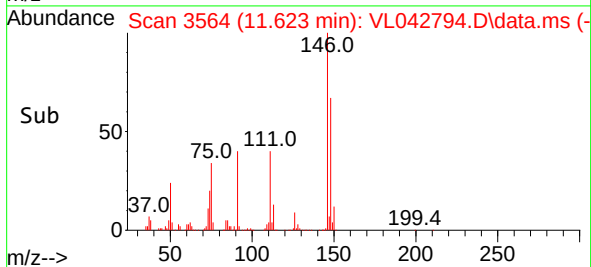
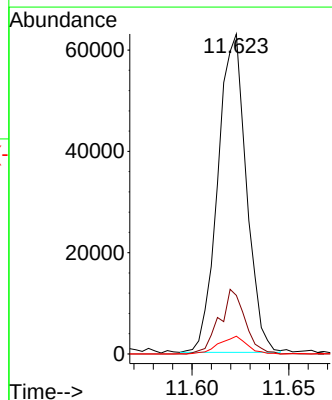
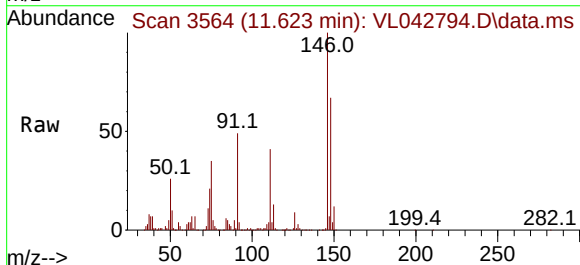
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

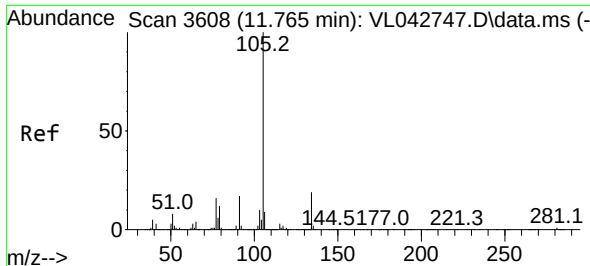
Tgt Ion:119 Resp: 656497
Ion Ratio Lower Upper
119 100
91 81.0 64.0 96.0
134 21.4 17.3 25.9



#66
Benzyl Chloride
Concen: 13.634 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 64301
Ion Ratio Lower Upper
91 100
126 18.3 14.4 21.6
128 5.6 5.2 7.8

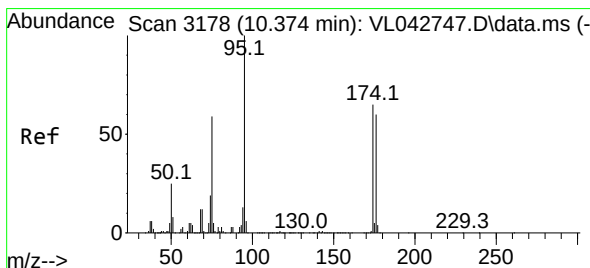
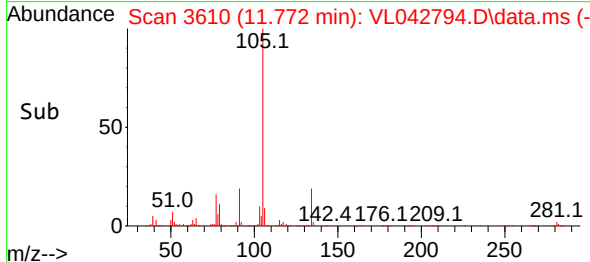
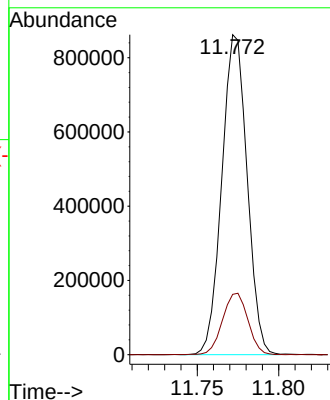
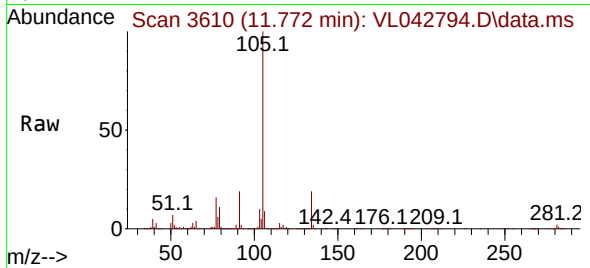




#67
 sec-Butylbenzene
 Concen: 11.374 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

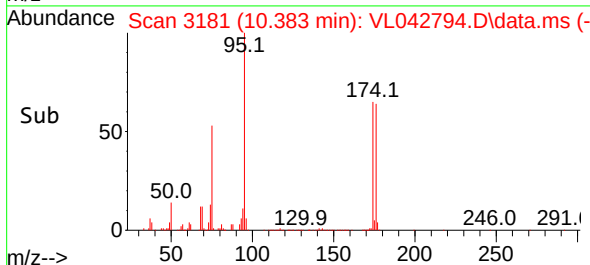
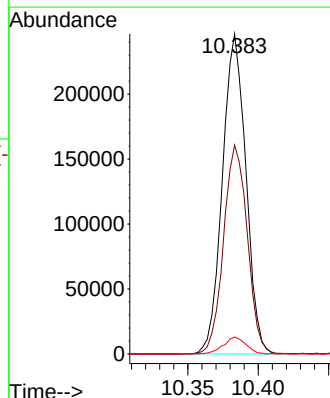
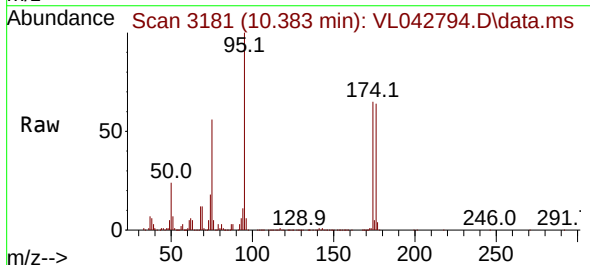
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

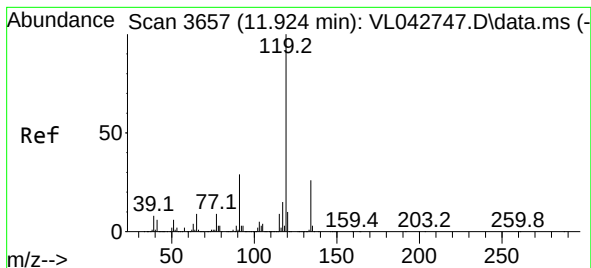
Tgt Ion:105 Resp: 929357
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.386 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.009 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 95 Resp: 285966
 Ion Ratio Lower Upper
 95 100
 174 66.1 53.8 80.6
 175 5.1 4.0 6.0

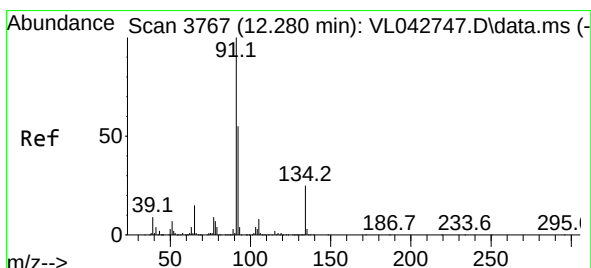
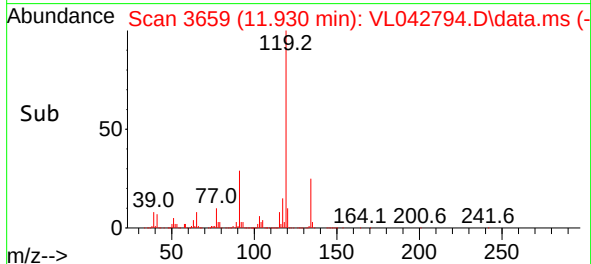
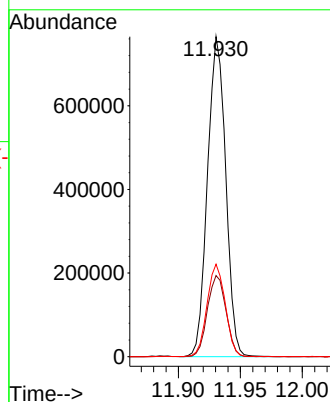
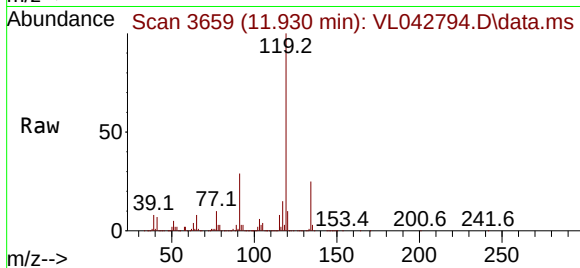




#69
p-Isopropyltoluene
Concen: 11.766 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

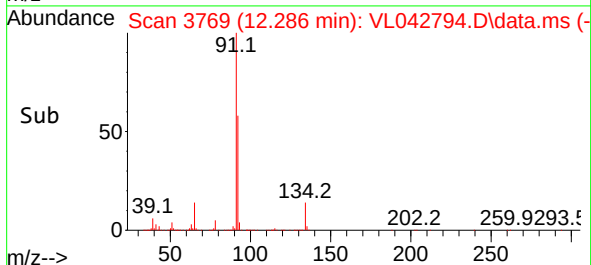
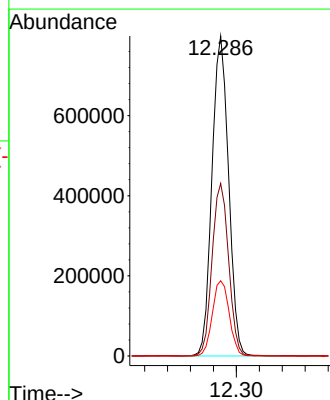
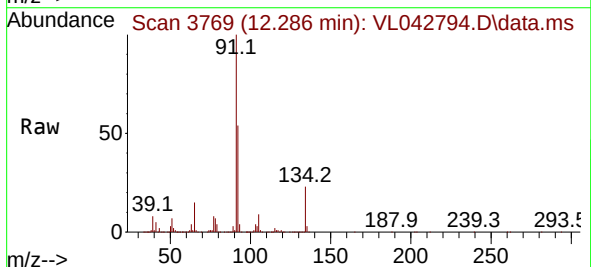
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

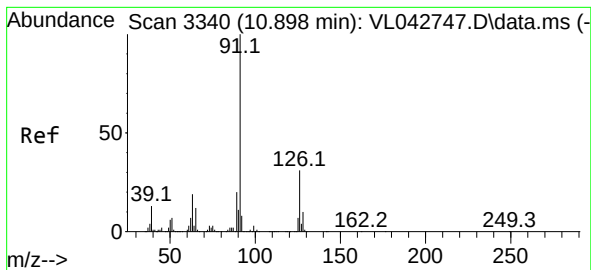
Tgt Ion:119 Resp: 783925
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 28.9 23.2 34.8



#70
n-Butylbenzene
Concen: 12.474 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 802758
Ion Ratio Lower Upper
91 100
92 53.6 43.4 65.2
134 23.9 19.6 29.4

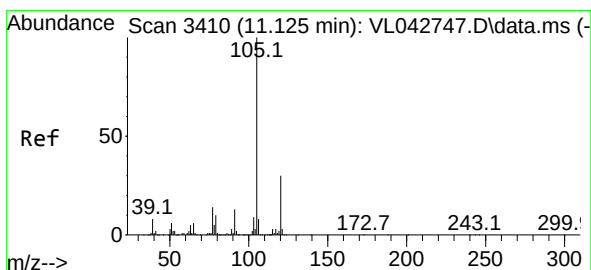
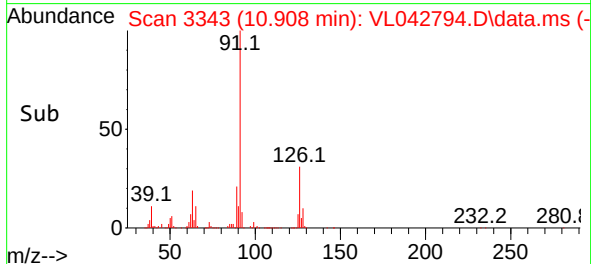
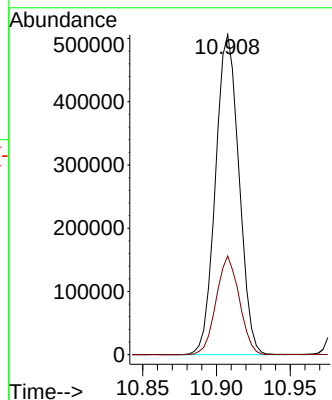
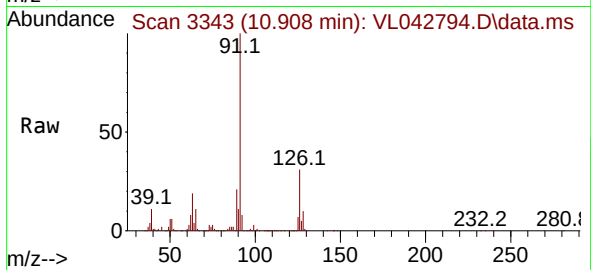




#71
2-Chlorotoluene
Concen: 11.306 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

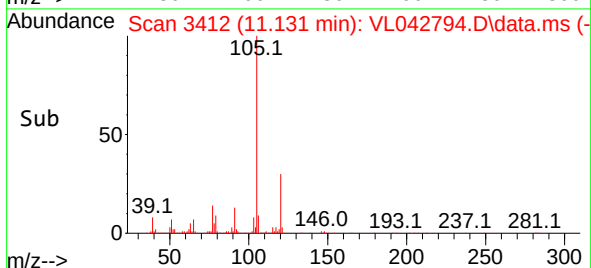
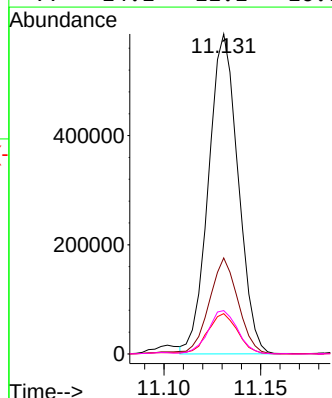
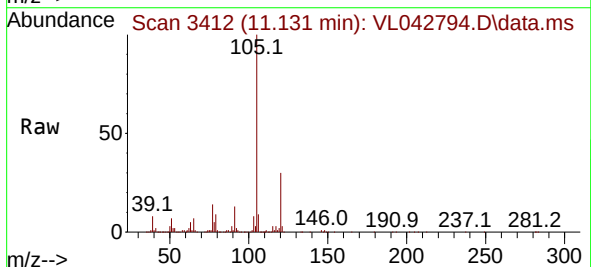
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

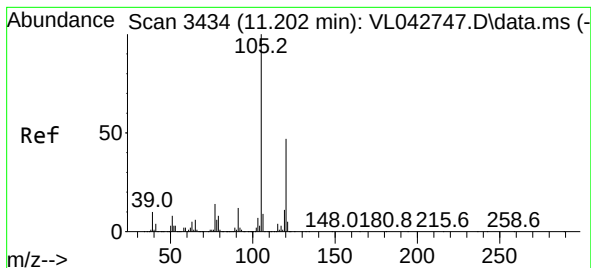
Tgt Ion: 91 Resp: 560672
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 11.893 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 105 Resp: 622768
Ion Ratio Lower Upper
105 100
120 29.9 24.4 36.6
91 13.0 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 12.114 ppbv

RT: 11.209 min Scan# 34

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

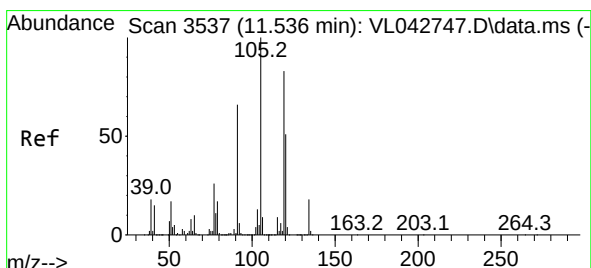
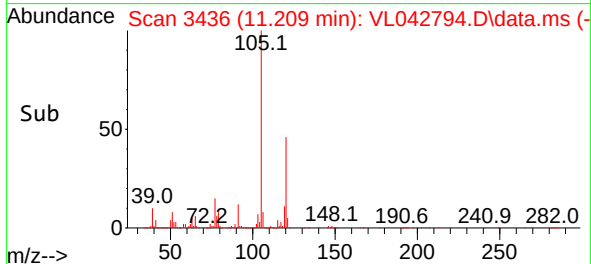
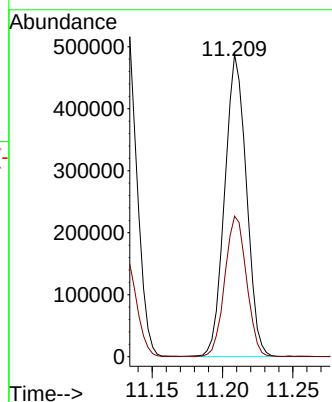
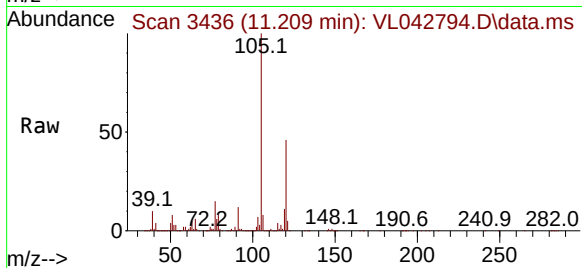
VL0731ABSD01

Tgt Ion:105 Resp: 522269

Ion Ratio Lower Upper

105 100

120 46.5 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 12.248 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:105 Resp: 576097

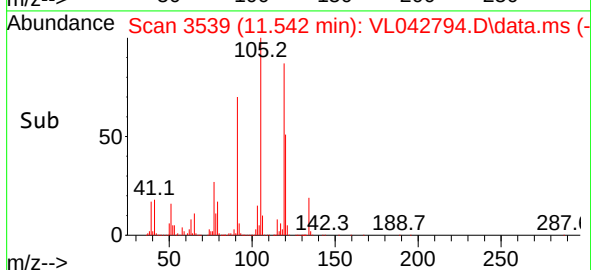
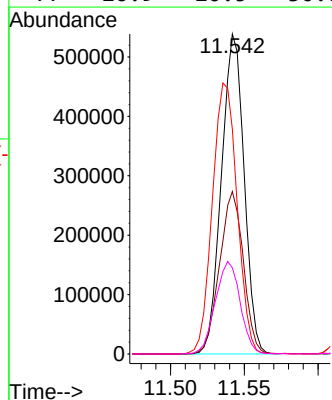
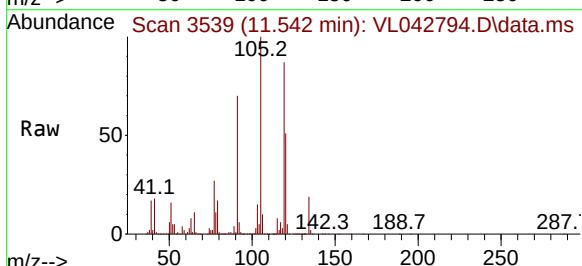
Ion Ratio Lower Upper

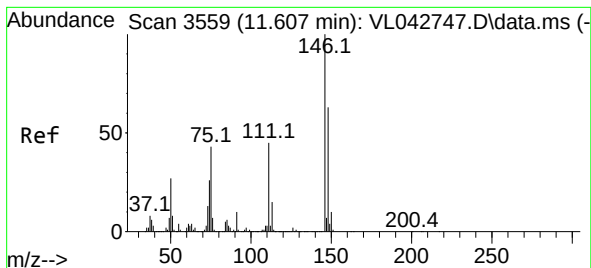
105 100

120 50.7 40.8 61.2

91 70.2 53.0 79.4

77 26.9 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 11.224 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABSD01

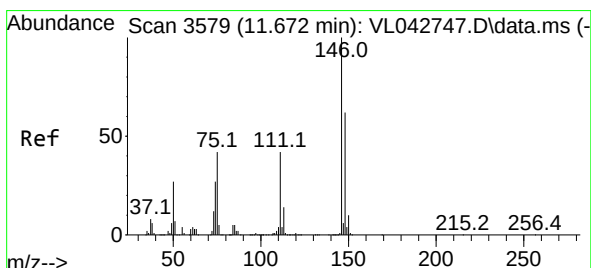
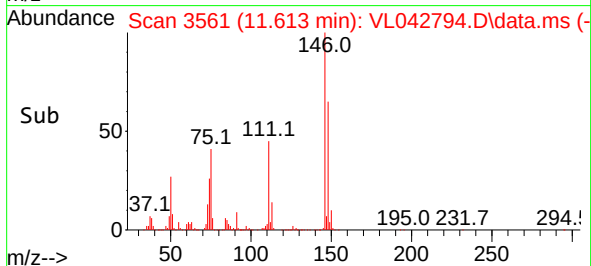
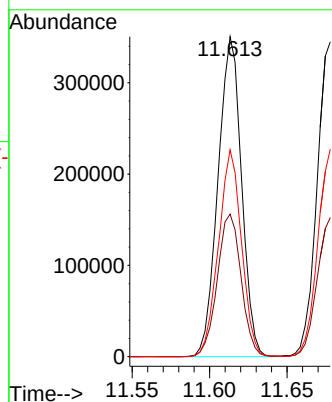
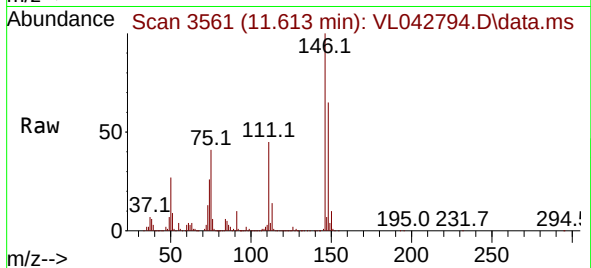
Tgt Ion:146 Resp: 370097

Ion Ratio Lower Upper

146 100

111 45.2 22.7 68.0

148 63.4 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 11.326 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

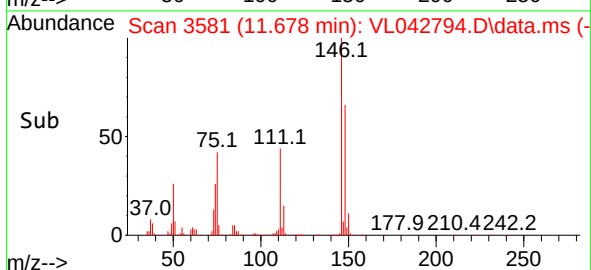
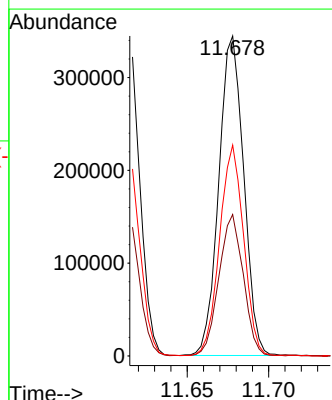
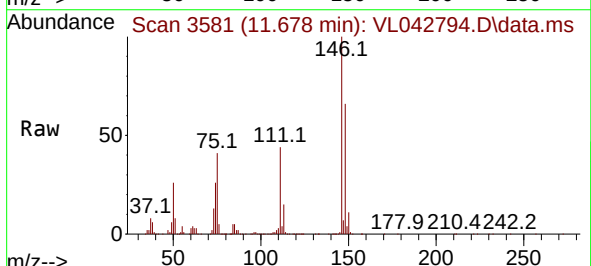
Tgt Ion:146 Resp: 365448

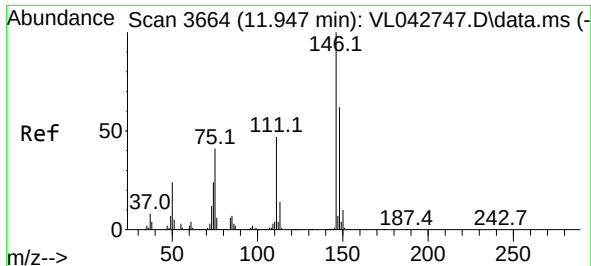
Ion Ratio Lower Upper

146 100

111 43.8 21.4 64.2

148 63.8 32.1 96.3

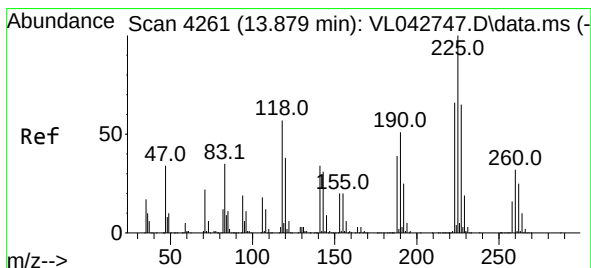
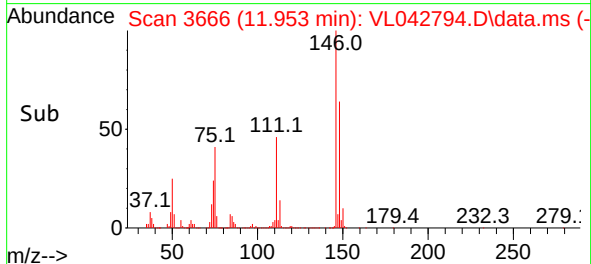
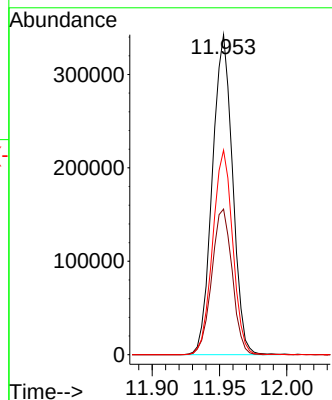
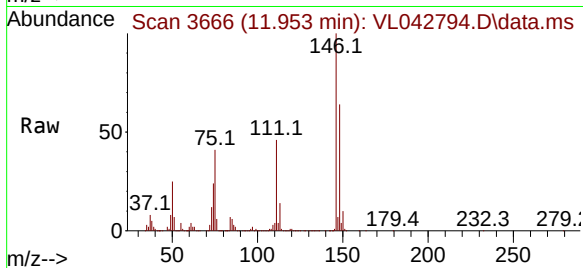




#77
1,2-Dichlorobenzene
Concen: 11.043 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

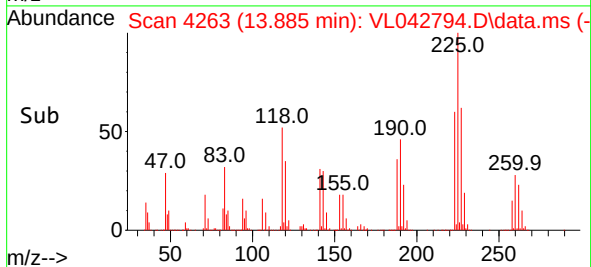
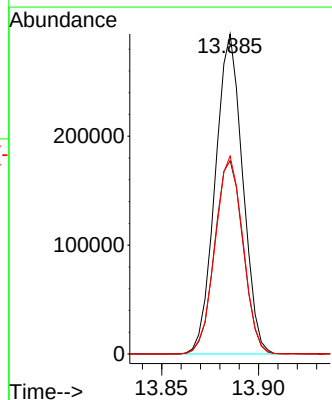
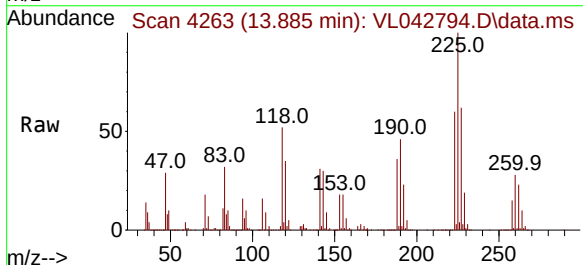
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

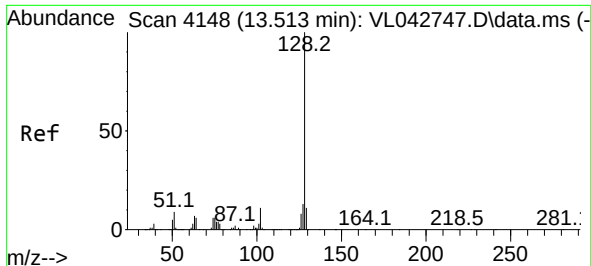
Tgt Ion:146 Resp: 357874
Ion Ratio Lower Upper
146 100
111 46.0 23.7 71.1
148 63.4 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 9.863 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:225 Resp: 289316
Ion Ratio Lower Upper
225 100
223 62.5 50.7 76.1
227 63.1 50.5 75.7

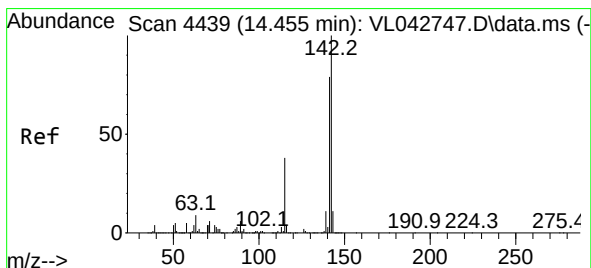
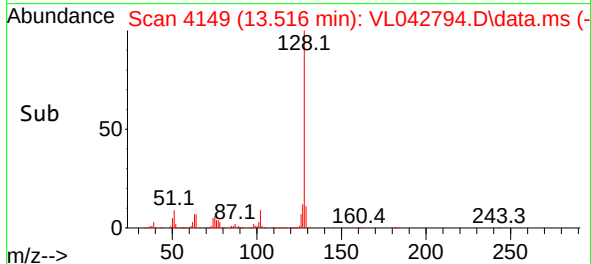
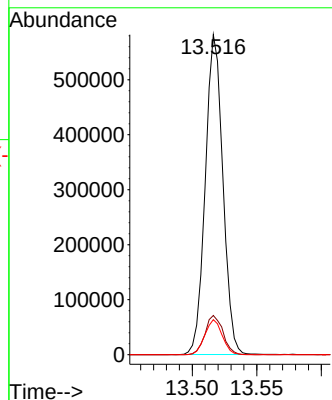
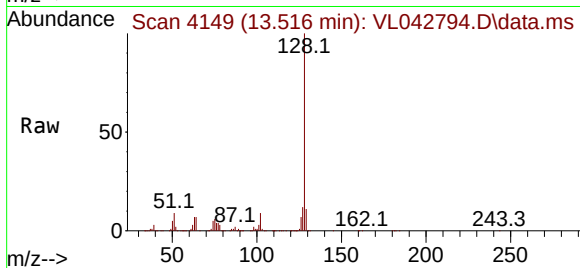




#79
Naphthalene
Concen: 10.791 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

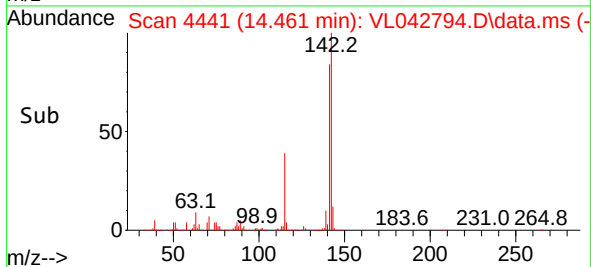
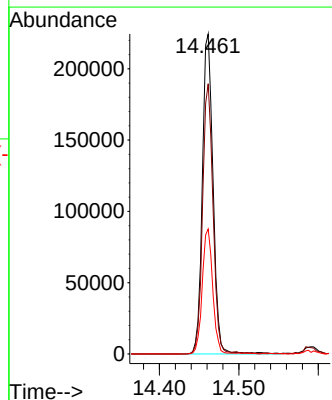
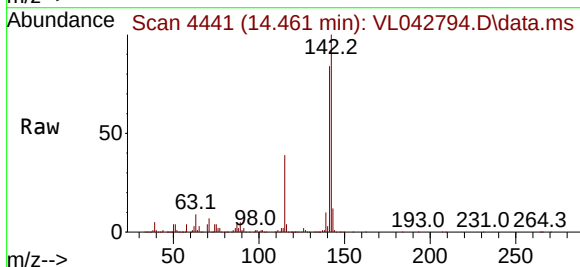
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

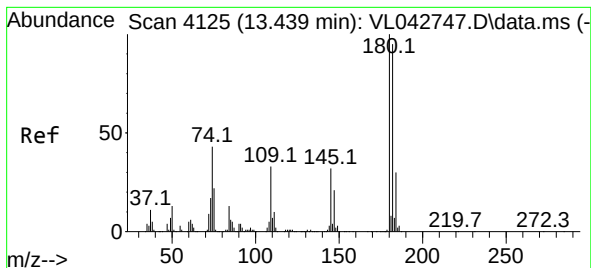
Tgt Ion:128 Resp: 552592
Ion Ratio Lower Upper
128 100
127 12.3 10.5 15.7
129 10.9 8.6 13.0



#80
Naphthalene,2-methyl-
Concen: 8.445 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:142 Resp: 210490
Ion Ratio Lower Upper
142 100
141 83.5 65.8 98.8
115 38.7 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.803 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042794.D

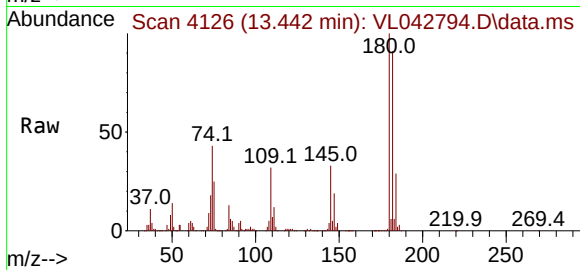
Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01



Tgt Ion:180 Resp: 310917

Ion Ratio Lower Upper

180 100

182 94.8 76.2 114.2

184 30.5 24.8 37.2

