

Cover Page

Order ID : P5293

Project ID : R36719

Client : Tetra Tech, EMI

Lab Sample Number

P5293-01
P5293-02
P5293-03

Client Sample Number

C0AB9
C0AC0
C0AC1

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: 12/25/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

No: 3-121024-132430-0018

Cooler #:

Lab: Alliance Technical Group

Lab Phone: 908-789-8900

in Germany
—HS

-3.1

-7.1

-7.5

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Bob Bentz	12/12/24 0739		12-13-24 ¹⁰⁰⁰	

Client Contact Information				Bottle Order ID : B2409035				Courier :				_____ of _____ COCs										
Client ID : TETR16 Project ID : R36671				Sampler Name(s) :				Analysis				Matrix										
Customer Name : Tetra Tech, EMI Address : 240 Continental Drive, Suite 200 City : Newark State : DE Zip Code : 19713 Country :				Project Manager : AVA HEISS				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified				TO-15 Indoor/Ambient Air Soil Gas										
				Phone Number : 302-738-7551																		
				Fax Number : 302-454-5980																		
				Site Details:																		
Analysis Turnaround Time				Standard : 10 business days OR				Data Package Type :														
Rush (Specify): Days				EDD Type :																		
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID								
	12/10/24	0932	0936	-30	-2	68°F	56°F	-30	-3.1	10713	10604	6 L	4.16	VL041543.D	X			X				
ACVI-IA-03	Temperature (Fahrenheit)									GC/MS Analyst Signature (TO-15)												
		Ambient	Maximum	Minimum																		
	Start																					
	Stop																					
	Pressure (Inches of Hg)									** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.												
		Ambient	Maximum	Minimum																		
	Start																					
	Stop																					
Special Instructions/QC Requirements & Comments :																						
Suspected Contamination: High Medium Low PID Readings:																						
Sampling site (State):																						
Quick Connector required :																						
Canisters Shipped by:				Date/Time: 11/25/24				Canisters Received by:				Date/Time: 12-13-24 1000				B2409035 - 17						
Samples Relinquished by:				Date/Time: 12/12/24 0723				Received by:				Date/Time:										
Relinquished by:				Date/Time:				Received by:				Date/Time:										

Client Contact Information				Bottle Order ID : B2409035				Courier :				_____ of _____ COCs													
Client ID : TETR16 Project ID : R36671				Sampler Name(s) :				Analysis				Matrix													
Customer Tetra Tech, EMI Name : Address : 240 Continental Drive, Suite 200 City : Newark State : DE Zip Code : 19713 Country :				Project Manager : AVA HEISS				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified				TO-15 Indoor/Ambient Air Soil Gas													
				Phone Number : 302-738-7551																					
				Fax Number : 302-454-5980																					
				Site Details:																					
Analysis Turnaround Time				Data Package Type :																					
Standard : 10 business days OR				Rush (Specify): _____ Days				EDD Type :																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID												
ACVI-DA-03-D	12/10/24	0941	0930	-30	-5	68°F	56°F	-30	-7.1	10203	10153	6 L	4.16	VL041615.D	X			X							
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> GC/MS Analyst Signature (TO-15)											Ambient	Maximum	Minimum	Start				Stop							
	Ambient	Maximum	Minimum																						
Start																									
Stop																									
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> ** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.											Ambient	Maximum	Minimum	Start				Stop							
	Ambient	Maximum	Minimum																						
Start																									
Stop																									
Special Instructions/QC Requirements & Comments :																									
Suspected Contamination: High Medium Low PID Readings:																									
Sampling site (State): WV																									
Quick Connector required : NO																									
Canisters Shipped by: Sam				Date/Time: 11/25/24				Canisters Received by: [Signature]				Date/Time: 12-13-24 1000				B2409035 - 2									
Samples Relinquished by: [Signature]				Date/Time: 12/12/24 0723				Received by: [Signature]				Date/Time:													
Relinquished by:				Date/Time:				Received by:				Date/Time:													

Client Contact Information				Bottle Order ID : 82409035				Courier :				_____ of _____ COCs																			
Client ID : TETR16 Project ID : R36671				Sampler Name(s) :				Analysis				Matrix																			
Customer Name : Tetra Tech, EMI Address : 240 Continental Drive, Suite 200 City : Newark State : DE Zip Code : 19713 Country :				Project Manager : AVA HEISS				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified																							
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Analysis Turnaround Time				Data Package Type :																											
Standard : 10 business days OR				EDD Type :																											
Rush (Specify): _____ Days																															
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambient Air	Soil Gas											
9255-IA- 4-20241210	12/10/24	12/18	12/18	-30	-3	67°F	67°F	-30	-7.5	10206	10258	6 L	4.16	VL041664.D	X			X													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) [Signature]									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings:																															
Sampling site (State): NJ																															
Quick Connector required : NO																															
Canisters Shipped by: Sam				Date/Time: 11/25/24				Canisters Received by: [Signature]				Date/Time: 12-23-24 1000				B2409035 - 4															
Samples Relinquished by: [Signature]				Date/Time: 12/12/24 0723				Received by: [Signature]				Date/Time:																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																			



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

Laboratory Certification

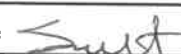
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

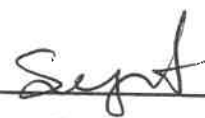
New Jersey Department of Environmental Protection
Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: Chemtech		Location: 284 Sheffield Street, Mountainside, NJ 7092	
QA/QC:		Title: Sample Custodian	
Field Sample Seal No.: P5293		Date Broken: 12/13/2024	
Case No.: R36719		Military Time Seal Broken: 10:00:00	
		Analytical Parameter/Fraction: TO-15	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
P5293-01	C0AB9		
P5293-02	C0AC0		
P5293-03	C0AC1		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
12/16/24	14:40	Signature		Signature		
		Printed Name	Catherine Peric	Printed Name	Sample Custodian	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: Supervisor Signature: 

METHOD: TO-15

Pressure Gauge ID: A2-55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/04/24	P4696-01	10295	11.8	-5.9				sy
"	P4696-02	10283	13.6	-2.2				sy
11/18/24	P4911-01	10279	12.2	-5.1				sy
"	P4911-02	10315	12.4	-4.7				↓
12/5/24	P5150-01	10443	12.0	-5.5				sy
↓	P5150-02	10605	11.8	-5.9				↓
	P5150-03	10060	11.8	-5.9				↓
	P5150-04	10445	11.0	-7.5				↓
	P5150-05	10609	11.4	-6.7				↓
↓	P5150-06	10597	12.8	-3.9				↓
12/13/24	P5292-01	10606	13.2	-3.5				sy
	P5292-02	10300	9.6	-10.4				↓
	P5293-01	10604	13.2	-3.1				↓
	P5293-02	10153	11.2	-7.1				↓
	P5293-03	10258	11.0	-7.5				↓
	P5294-01	10054	11.8	-5.9				↓
	P5294-02	10401	11.0	-7.5				↓
	P5294-03	10197	13.0	-3.5				↓
	P5295-01	10329	10.8	-8.0				↓
	P5295-02	10601	10.8	-8.0				↓
↓	P5296-01	10326	11.0	-7.5				↓

10604 -3.1

Initial Vacuum (Hg)	Final Vacuum (Hg/PSI)	Date	By:

CLP Sample # C0AB9 Sample# ACVI-IA-03-20241210
 Date: 12/10/2024 09:32 6L Summa Canister
 Location: 826 20th St Matrix Air
 Analyses: VOCs (TO-15)
 Preservation: None
Tag: 1019
 Das# R36671 TAT 21 Days
 Storage Location: Air Lab
 Sample: P5293-01
 Cust #: C0AB9

B2409035

10153 -7.1

Initial Vacuum (Hg)	Final Vacuum (Hg/PSI)	Date	By:

CLP Sample # C0AC0 Sample# ACVI-IA-03D-20241210
 Date: 12/10/2024 09:41 6L Summa Canister
 Location: 826 20th St Matrix Air
 Analyses: VOCs (TO-15)
 Preservation: None
Tag: 1020
 Das# R36671 TAT 21 Days
 Storage Location: Air Lab
 Sample: P5293-02
 Cust #: C0AC0

B2409035

19258

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

Client Sample ID #: _____
 Client Name: _____
 Project Name: _____
 Date: _____
 Analysis: _____
 Comments: _____

CHEMTECH'S
 Date Received: _____

CLP Sample # C0AC1 Sample
 Date: 12/10/2024 12:18 6L Summa
 Location: 1933 artisan ave apt M
 Analyses: VOCs (TO-15)
 Preservation: None
Tag: 1021
 Das# R36671 TAT 21 Days

Storage Location: Air Lab
 Sample: P5293-03
 Cust #: C0AC1

B2409035



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

CASE NARRATIVE

Tetra Tech, EMI

Project Name: R36719

Project # N/A

Chemtech Project # P5293

Test Name: TO-15

A. Number of Samples and Date of Receipt:

3 Air samples were received on 12/13/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {P5293-01DUP} with File ID: VL041798.D met criteria except for Hexane[33.3%], m/p-Xylene[200%] due to difference in results of Original and DUP. The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample C0AC1 was diluted due to high concentration.

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	VL121624	Instrument	MSVOA_I

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

VSTDICCC010	VL041752.D	m/p-Xylene	SAM	12/20/2024 4:34:05 AM	MMDadoda	12/20/2024 4:37:21 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL041753.D	1,4-Dioxane	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL041753.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL041753.D	m/p-Xylene	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL041754.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL041754.D	Carbon Tetrachloride	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL041754.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL041754.D	Ethanol	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated

				AM		AM	d by Software incorrectl y
VSTDICC001	VL041754.D	m/p-Xylene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectl y
VSTDICC001	VL041754.D	Methyl Methacrylate	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectl y
VSTDICC001	VL041754.D	Tetrachloroethene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectl y
STDICC001	VL041754.D	Trichloroethene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software incorrectl y
VSTDICC0.5	VL041755.D	1,1,1,2-Tetrachloroethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectl y
VSTDICC0.5	VL041755.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectl y
VSTDICC0.5	VL041755.D	1,2-Dibromoethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectl y
VSTDICC0.5	VL041755.D	1,2-Dichloropropane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectl y
VSTDICC0.5	VL041755.D	1,4-Dioxane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software

							incorrectl y
VSTDICC0.5	VL041755. D	2,2,4- Trimethylpentane	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	4-Methyl-2- Pentanone	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	Benzyl Chloride	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	Bromodichlorometha ne	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	Bromoform	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	Chlorobenzene	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	cis-1,3- Dichloropropene	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	Ethanol	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y
VSTDICC0.5	VL041755. D	Heptane	SA M	12/20/202 4 4:34:10 AM	MMDadod a	12/20/202 4 4:37:27 AM	Peak Integrate d by Software incorrectl y

VSTDIC0.5	VL041755.D	m/p-Xylene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL041755.D	t-1,3-Dichloropropene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL041755.D	Trichloroethene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL041756.D	1,1,2,2-Tetrachloroethane	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL041756.D	1,2-Dibromoethane	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL041756.D	Tetrachloroethene	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL041756.D	Trichloroethene	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL041757.D	1,1,1-Trichloroethane	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL041757.D	Carbon Tetrachloride	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL041757.D	Tetrachloroethene	SAM	12/20/2024 4:34:12	MMDadoda	12/20/2024 4:37:30	Peak Integrate

				AM		AM	d by Software incorrectl y
VSTDICC0.03	VL041757.D	Trichloroethene	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software incorrectl y
VSTDICC015	VL041758.D	m/p-Xylene	SAM	12/20/2024 4:34:14 AM	MMDadoda	12/20/2024 4:37:32 AM	Peak Integrated by Software incorrectl y
VSTDICV010	VL041759.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software incorrectl y
VSTDICV010	VL041759.D	Ethanol	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software incorrectl y
VSTDICV010	VL041759.D	m/p-Xylene	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software incorrectl y

Manual Integration Report

Sequence	vl121824	Instrument	MSVOA_I

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

VSTDCCC010	VL041788.D	cis-1,3-Dichloropropene	SAM	12/19/2024 12:18:09 PM	MMDadoda	12/19/2024 2:45:22 PM	Peak Integrated by Software incorrectl y
VSTDCCC010	VL041788.D	Ethanol	SAM	12/19/2024 12:18:09 PM	MMDadoda	12/19/2024 2:45:22 PM	Peak Integrated by Software incorrectl y

							y
VSTDCCC010	VL041788.D	m/p-Xylene	SAM	12/19/2024 12:18:09 PM	MMDadoda	12/19/2024 2:45:22 PM	Peak Integrated by Software incorrectly
VL1218ABS01	VL041795.D	m/p-Xylene	SAM	12/19/2024 12:19:16 PM	MMDadoda	12/19/2024 2:45:27 PM	Peak Integrated by Software incorrectly
P5293-01	VL041797.D	2,2,4-Trimethylpentane	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software incorrectly
P5293-01	VL041797.D	Carbon Tetrachloride	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software incorrectly
P5293-01	VL041797.D	Chlorodifluoromethane	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software incorrectly
P5293-01	VL041797.D	m/p-Xylene	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software incorrectly
P5293-01	VL041797.D	Propene	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software incorrectly
P5293-01	VL041797.D	Toluene	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software incorrectly
P5293-01DUP	VL041798.D	2,2,4-Trimethylpentane	SAM	12/19/2024 12:19:02 PM	MMDadoda	12/19/2024 2:45:30 PM	Peak Integrated by Software incorrectly
P5293-	VL041798.	Carbon Tetrachloride	SA	12/19/202	MMDadod	12/19/202	Peak

01DUP	D		M	4 12:19:02 PM	a	4 2:45:30 PM	Integrate d by Software incorrectl y
P5293- 01DUP	VL041798. D	Chlorodifluoromethan e	SA M	12/19/202 4 12:19:02 PM	MMDadod a	12/19/202 4 2:45:30 PM	Peak Integrate d by Software incorrectl y
P5293- 01DUP	VL041798. D	m/p-Xylene	SA M	12/19/202 4 12:19:02 PM	MMDadod a	12/19/202 4 2:45:30 PM	Peak Integrate d by Software incorrectl y
P5293- 01DUP	VL041798. D	Propene	SA M	12/19/202 4 12:19:02 PM	MMDadod a	12/19/202 4 2:45:30 PM	Peak Integrate d by Software incorrectl y
P5293-02	VL041799. D	Carbon Tetrachloride	SA M	12/19/202 4 12:19:20 PM	MMDadod a	12/19/202 4 2:45:33 PM	Peak Integrate d by Software incorrectl y
P5293-02	VL041799. D	Chlorodifluoromethan e	SA M	12/19/202 4 12:19:20 PM	MMDadod a	12/19/202 4 2:45:33 PM	Peak Integrate d by Software incorrectl y
P5293-02	VL041799. D	Ethyl Acetate	SA M	12/19/202 4 12:19:20 PM	MMDadod a	12/19/202 4 2:45:33 PM	Peak Integrate d by Software incorrectl y
P5293-02	VL041799. D	Heptane	SA M	12/19/202 4 12:19:20 PM	MMDadod a	12/19/202 4 2:45:33 PM	Peak Integrate d by Software incorrectl y
P5293-02	VL041799. D	m/p-Xylene	SA M	12/19/202 4 12:19:20 PM	MMDadod a	12/19/202 4 2:45:33 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	4-Methyl-2- Pentanone	SA M	12/19/202 4 12:19:25	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by

				PM			Software incorrectl y
P5293-03	VL041800. D	Bromodichlorometha ne	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	Carbon Tetrachloride	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	Chlorodifluoromethan e	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	Ethyl Benzene	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	Heptane	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	n-propylbenzene	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03	VL041800. D	Naphthalene	SA M	12/19/202 4 12:19:25 PM	MMDadod a	12/19/202 4 2:45:34 PM	Peak Integrate d by Software incorrectl y
P5293-03DL	VL041810. D	Styrene	SA M	12/23/202 4 5:30:43 AM	MMDadod a	12/23/202 4 5:32:41 AM	Peak Integrate d by Software incorrectl y



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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5293

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/25/2024

LAB CHRONICLE

OrderID:	P5293	OrderDate:	12/16/2024 11:34:00 AM
Client:	Tetra Tech, EMI	Project:	R36719
Contact:	Ava Heiss	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5293-01	C0AB9	Air	TO-15	TO-15	12/11/24		12/18/24	12/13/24
P5293-02	C0AC0	Air	TO-15	TO-15	12/11/24		12/18/24	12/13/24
P5293-03	C0AC1	Air	TO-15	TO-15	12/11/24		12/18/24	12/13/24
P5293-03DL	C0AC1DL	Air	TO-15	TO-15	12/11/24		12/19/24	12/13/24

Hit Summary Sheet SW-846

SDG No.: P5293

Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	C0AB9							
P5293-01	C0AB9	Air	Dichlorodifluoromethane	2.03	J	1.04	2.47	ug/m3
P5293-01	C0AB9	Air	Chloromethane	0.81	J	0.21	1.03	ug/m3
P5293-01	C0AB9	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
P5293-01	C0AB9	Air	Acetone	7.60		0.57	1.19	ug/m3
P5293-01	C0AB9	Air	Methylene Chloride	44.1		0.66	1.74	ug/m3
P5293-01	C0AB9	Air	2-Butanone	0.59	J	0.35	1.47	ug/m3
P5293-01	C0AB9	Air	Carbon Tetrachloride	0.38		0.060	0.19	ug/m3
P5293-01	C0AB9	Air	Chloroform	14.7		0.39	2.44	ug/m3
P5293-01	C0AB9	Air	2,2,4-Trimethylpentane	0.51	J	0.47	2.34	ug/m3
P5293-01	C0AB9	Air	Benzene	0.67	J	0.29	1.60	ug/m3
P5293-01	C0AB9	Air	Toluene	1.13	J	0.41	1.88	ug/m3
P5293-01	C0AB9	Air	Hexane	7.40		0.39	1.76	ug/m3
Total Voc :				81.1				
Total Concentration:				81.1				
Client ID:	C0AC0							
P5293-02	C0AC0	Air	Dichlorodifluoromethane	1.93	J	1.04	2.47	ug/m3
P5293-02	C0AC0	Air	Chloromethane	0.95	J	0.21	1.03	ug/m3
P5293-02	C0AC0	Air	Trichlorofluoromethane	1.12	J	0.90	2.81	ug/m3
P5293-02	C0AC0	Air	Heptane	0.49	J	0.45	2.05	ug/m3
P5293-02	C0AC0	Air	Acetone	12.3		0.57	1.19	ug/m3
P5293-02	C0AC0	Air	Methylene Chloride	2.50		0.66	1.74	ug/m3
P5293-02	C0AC0	Air	2-Butanone	1.24	J	0.35	1.47	ug/m3
P5293-02	C0AC0	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
P5293-02	C0AC0	Air	Chloroform	1.81	J	0.39	2.44	ug/m3
P5293-02	C0AC0	Air	Benzene	0.77	J	0.29	1.60	ug/m3
P5293-02	C0AC0	Air	Toluene	2.22		0.41	1.88	ug/m3
Total Voc :				25.8				
Total Concentration:				25.8				
Client ID:	C0AC1							
P5293-03	C0AC1	Air	Dichlorodifluoromethane	1.88	J	1.04	2.47	ug/m3
P5293-03	C0AC1	Air	Chloromethane	3.92		0.21	1.03	ug/m3
P5293-03	C0AC1	Air	Trichlorofluoromethane	1.07	J	0.90	2.81	ug/m3
P5293-03	C0AC1	Air	tert-Butyl alcohol	3.33		0.58	1.52	ug/m3
P5293-03	C0AC1	Air	Heptane	1.48	J	0.45	2.05	ug/m3
P5293-03	C0AC1	Air	Acetone	51.1	E	0.57	1.19	ug/m3
P5293-03	C0AC1	Air	Methylene Chloride	5.91		0.66	1.74	ug/m3

Hit Summary Sheet
SW-846

SDG No.: P5293

Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5293-03	C0AC1	Air	2-Butanone	14.2		0.35	1.47	ug/m3
P5293-03	C0AC1	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
P5293-03	C0AC1	Air	Chloroform	7.33		0.39	2.44	ug/m3
P5293-03	C0AC1	Air	Benzene	2.56		0.29	1.60	ug/m3
P5293-03	C0AC1	Air	Bromodichloromethane	1.88	J	0.54	3.35	ug/m3
P5293-03	C0AC1	Air	4-Methyl-2-Pentanone	1.19	J	0.37	2.05	ug/m3
P5293-03	C0AC1	Air	Toluene	4.90		0.41	1.88	ug/m3
P5293-03	C0AC1	Air	Ethyl Benzene	1.52	J	0.52	2.17	ug/m3
P5293-03	C0AC1	Air	m/p-Xylene	6.95		0.91	4.34	ug/m3
P5293-03	C0AC1	Air	o-Xylene	2.74		0.52	2.17	ug/m3
P5293-03	C0AC1	Air	Styrene	1.87	J	0.47	2.13	ug/m3
P5293-03	C0AC1	Air	1,3,5-Trimethylbenzene	3.29		0.54	2.46	ug/m3
P5293-03	C0AC1	Air	1,2,4-Trimethylbenzene	14.3		0.39	2.46	ug/m3
P5293-03	C0AC1	Air	Naphthalene	1.15		0.42	0.52	ug/m3
P5293-03	C0AC1	Air	4-Ethyltoluene	2.61		0.59	2.46	ug/m3
Total Voc :					136			
Total Concentration:					136			
Client ID:	C0AC1DL							
P5293-03DL	C0AC1DL	Air	Dichlorodifluoromethane	2.18	JD	2.08	4.94	ug/m3
P5293-03DL	C0AC1DL	Air	Chloromethane	3.92	D	0.41	2.07	ug/m3
P5293-03DL	C0AC1DL	Air	tert-Butyl alcohol	3.03	D	1.15	3.03	ug/m3
P5293-03DL	C0AC1DL	Air	Acetone	49.2	D	1.14	2.38	ug/m3
P5293-03DL	C0AC1DL	Air	Methylene Chloride	5.91	D	1.32	3.47	ug/m3
P5293-03DL	C0AC1DL	Air	2-Butanone	12.1	D	0.71	2.95	ug/m3
P5293-03DL	C0AC1DL	Air	Chloroform	6.35	D	0.83	4.88	ug/m3
P5293-03DL	C0AC1DL	Air	Benzene	2.24	JD	0.54	3.19	ug/m3
P5293-03DL	C0AC1DL	Air	Bromodichloromethane	1.74	JD	1.00	6.70	ug/m3
P5293-03DL	C0AC1DL	Air	Toluene	3.54	JD	0.83	3.77	ug/m3
P5293-03DL	C0AC1DL	Air	Ethyl Benzene	1.04	JD	1.04	4.34	ug/m3
P5293-03DL	C0AC1DL	Air	m/p-Xylene	5.21	JD	1.82	8.69	ug/m3
P5293-03DL	C0AC1DL	Air	o-Xylene	2.04	JD	1.04	4.34	ug/m3
P5293-03DL	C0AC1DL	Air	Styrene	1.53	JD	0.94	4.26	ug/m3
P5293-03DL	C0AC1DL	Air	1,3,5-Trimethylbenzene	2.06	JD	1.08	4.92	ug/m3
P5293-03DL	C0AC1DL	Air	1,2,4-Trimethylbenzene	9.34	D	0.79	4.92	ug/m3
P5293-03DL	C0AC1DL	Air	4-Ethyltoluene	1.72	JD	1.18	4.92	ug/m3
Total Voc :					113			
Total Concentration:					113			

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AB9

Analysis Date : 12/18/24

Laboratory Id Number : P5293-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.41	J	2.03		
Chloromethane	74-87-3	50.49	0.39	J	0.81		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	3.2		7.6		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	12.7		44.1		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
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	0.2	J	0.59		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	3		14.6		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.11	J	0.51		
Benzene	71-43-2	78.11	0.21	J	0.67		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.3	J	1.13		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AB9

Analysis Date : 12/18/24

Laboratory Id Number : P5293-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	2.1		7.4		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AC0

Analysis Date : 12/18/24

Laboratory Id Number : P5293-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.39	J	1.93		
Chloromethane	74-87-3	50.49	0.46	J	0.95		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.12	J	0.49		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.2		12.4		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.72		2.5		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
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	0.42	J	1.24		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.37	J	1.81		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.24	J	0.77		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.59		2.22		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AC0

Analysis Date : 12/18/24

Laboratory Id Number : P5293-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.11	U	0.39		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AC1

Analysis Date : 12/18/24

Laboratory Id Number : P5293-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.38	J	1.88		
Chloromethane	74-87-3	50.49	1.9		3.92		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.19	J	1.07		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	1.1		3.33		
Heptane	142-82-5	100.2	0.36	J	1.48		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	21.5	E	51.1		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.7		5.91		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
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	4.8		14.2		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	1.5		7.33		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.8		2.56		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.28	J	1.88		
4-Methyl-2-Pentanone	108-10-1	100.2	0.29	J	1.19		
Toluene	108-88-3	92.14	1.3		4.9		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AC1

Analysis Date : 12/18/24

Laboratory Id Number : P5293-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.35	J	1.52		
m/p-Xylene	179601-23-1	106.2	1.6		6.95		
o-Xylene	95-47-6	106.2	0.63		2.74		
Styrene	100-42-5	104.1	0.44	J	1.87		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.67		3.29		
1,2,4-Trimethylbenzene	95-63-6	120.2	2.9		14.3		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.22		1.15		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.53		2.61		
Hexane	110-54-3	86.17	0.11	U	0.39		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AC1DL

Analysis Date : 12/19/24

Laboratory Id Number : P5293-03DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	JD	2.18		
Chloromethane	74-87-3	50.49	1.9	D	3.92		
Vinyl Chloride	75-01-4	62.5	0.03	UD	0.08		
Bromomethane	74-83-9	94.94	0.28	UD	1.09		
Chloroethane	75-00-3	64.52	0.34	UD	0.9		
Tetrahydrofuran	109-99-9	72.11	0.26	UD	0.77		
Trichlorofluoromethane	75-69-4	137.4	0.32	UD	1.8		
Dichlorotetrafluoroethane	76-14-2	170.9	0.18	UD	1.26		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.32	UD	2.45		
tert-Butyl alcohol	75-65-0	74.12	1	D	3.03		
Heptane	142-82-5	100.2	0.22	UD	0.9		
1,1-Dichloroethene	75-35-4	96.94	0.28	UD	1.11		
Acetone	67-64-1	58.08	20.7	D	49.2		
Carbon Disulfide	75-15-0	76.14	0.32	UD	1		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.24	UD	0.87		
Methylene Chloride	75-09-2	84.94	1.7	D	5.91		
trans-1,2-Dichloroethene	156-60-5	96.94	0.38	UD	1.51		
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	4.1	D	12.1		
Carbon Tetrachloride	56-23-5	153.8	0.02	UD	0.13		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	UD	0.71		
Chloroform	67-66-3	119.4	1.3	D	6.35		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	UD	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.2	UD	0.93		
Benzene	71-43-2	78.11	0.7	JD	2.24		
1,2-Dichloroethane	107-06-2	98.96	0.18	UD	0.73		
Trichloroethene	79-01-6	131.4	0.03	UD	0.16		
1,2-Dichloropropane	78-87-5	113	0.22	UD	1.02		
Bromodichloromethane	75-27-4	163.8	0.26	JD	1.74		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	UD	0.78		
Toluene	108-88-3	92.14	0.94	JD	3.54		
t-1,3-Dichloropropene	10061-02-6	111	0.12	UD	0.54		
cis-1,3-Dichloropropene	10061-01-5	111	0.13	UD	0.59		
1,1,2-Trichloroethane	79-00-5	133.4	0.14	UD	0.76		

Project : R36719

Sampling Date : 12/11/24

Field Id Number : C0AC1DL

Analysis Date : 12/19/24

Laboratory Id Number : P5293-03DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.13	UD	1.11		
1,2-Dibromoethane	106-93-4	187.9	0.14	UD	1.08		
Tetrachloroethene	127-18-4	165.8	0.03	UD	0.2		
Chlorobenzene	108-90-7	112.6	0.15	UD	0.69		
Ethyl Benzene	100-41-4	106.2	0.24	JD	1.04		
m/p-Xylene	179601-23-1	106.2	1.2	JD	5.21		
o-Xylene	95-47-6	106.2	0.48	JD	2.08		
Styrene	100-42-5	104.1	0.36	JD	1.53		
Bromoform	75-25-2	252.8	0.11	UD	1.14		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	UD	0.14		
2-Chlorotoluene	95-49-8	126.6	0.22	UD	1.14		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.42	JD	2.06		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.9	D	9.34		
1,3-Dichlorobenzene	541-73-1	147	0.16	UD	0.96		
1,4-Dichlorobenzene	106-46-7	147	0.11	UD	0.66		
1,2-Dichlorobenzene	95-50-1	147	0.15	UD	0.9		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.17	UD	1.26		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.17	UD	1.81		
Naphthalene	91-20-3	128.17	0.15	UD	0.79		
1,3-Butadiene	106-99-0	54.09	0.26	UD	0.58		
4-Ethyltoluene	622-96-8	120.2	0.34	JD	1.67		
Hexane	110-54-3	86.17	0.22	UD	0.78		
Allyl Chloride	107-05-1	76.53	0.3	UD	0.94		
1,4-Dioxane	123-91-1	88.12	0.42	UD	1.51		
Methyl Methacrylate	80-62-6	100.117	0.17	UD	0.7		

Method	Matrix	Parameter	Spike_Amt_ Added	Calculated MDL	MB Data	MB Datafile	New MDL TO Be Used	MDL Unit
TO-15	Air	1,1,1,2-Tetrachloroethane	0.4	0.090683682	0		0.091	ppbv
TO-15	Air	1,1,1-Trichloroethane	0.03	0.00947589	0		0.0095	ppbv
TO-15	Air	1,1,2,2-Tetrachloroethane	0.03	0.010183321	0		0.011	ppbv
TO-15	Air	1,1,2-Trichloroethane	0.4	0.070112514	0		0.071	ppbv
TO-15	Air	1,1,2-Trichlorotrifluoroethane	0.4	0.155560652	0		0.16	ppbv
TO-15	Air	1,1-Dichloroethane	0.4	0.122378743	0		0.13	ppbv
TO-15	Air	1,1-Dichloroethene	0.4	0.139735617	0		0.14	ppbv
TO-15	Air	1,2,4-Trichlorobenzene	0.4	0.084677012	0		0.085	ppbv
TO-15	Air	1,2,4-Trimethylbenzene	0.4	0.077496367	0		0.078	ppbv
TO-15	Air	1,2-Dibromoethane	0.4	0.071318853	0		0.072	ppbv
TO-15	Air	1,2-Dichlorobenzene	0.4	0.074250332	0		0.075	ppbv
TO-15	Air	1,2-Dichloroethane	0.4	0.090890005	0		0.091	ppbv
TO-15	Air	1,2-Dichloropropane	0.4	0.073346868	0.109	VL038919.D	0.11	ppbv
TO-15	Air	1,3,5-Trimethylbenzene	0.4	0.101198372	0		0.11	ppbv
TO-15	Air	1,3-Butadiene	0.4	0.124009143	0		0.13	ppbv
TO-15	Air	1,3-Dichlorobenzene	0.4	0.079013305	0		0.08	ppbv
TO-15	Air	1,4-Dichlorobenzene	0.4	0.052746151	0		0.053	ppbv
TO-15	Air	1,4-Dioxane	0.4	0.202123585	0		0.21	ppbv
TO-15	Air	2,2,4-Trimethylpentane	0.4	0.09988427	0		0.10	ppbv
TO-15	Air	2-Butanone	0.4	0.118687999	0		0.12	ppbv
TO-15	Air	2-Chlorotoluene	0.4	0.104141644	0		0.11	ppbv
TO-15	Air	2-Hexanone	0.4	0.080656229	0		0.081	ppbv
TO-15	Air	4-Ethyltoluene	0.4	0.112037051	0		0.12	ppbv
TO-15	Air	4-Methyl-2-Pentanone	0.4	0.092836933	0		0.093	ppbv
TO-15	Air	Acetone	0.4	0.234416891	0		0.24	ppbv
TO-15	Air	Allyl Chloride	0.4	0.145618654	0		0.15	ppbv
TO-15	Air	Benzene	0.4	0.086407689	0		0.087	ppbv
TO-15	Air	Benzyl Chloride	0.4	0.173895169	0		0.18	ppbv
TO-15	Air	Bromodichloromethane	0.4	0.076780313	0		0.077	ppbv
TO-15	Air	Bromoethene	0.4	0.115560124	0		0.12	ppbv
TO-15	Air	Bromoform	0.4	0.056947551	0		0.057	ppbv
TO-15	Air	Bromomethane	0.4	0.137678239	0		0.14	ppbv
TO-15	Air	Carbon Disulfide	0.4	0.157343925	0		0.16	ppbv
TO-15	Air	Carbon Tetrachloride	0.03	0.010617308	0		0.011	ppbv
TO-15	Air	Chlorobenzene	0.4	0.075202602	0		0.076	ppbv
TO-15	Air	Chlorodifluoromethane	0.4	0.087466815	0		0.088	ppbv
TO-15	Air	Chloroethane	0.4	0.163530318	0		0.17	ppbv
TO-15	Air	Chloroform	0.4	0.082232394	0		0.083	ppbv
TO-15	Air	Chloromethane	0.4	0.097292998	0		0.098	ppbv
TO-15	Air	cis-1,2-Dichloroethene	0.4	0.088332535	0		0.089	ppbv
TO-15	Air	cis-1,3-Dichloropropene	0.4	0.063248763	0		0.064	ppbv
TO-15	Air	Cyclohexane	0.4	0.217999816	0		0.22	ppbv
TO-15	Air	Dibromochloromethane	0.4	0.065703935	0		0.066	ppbv
TO-15	Air	Dichlorodifluoromethane	0.4	0.20957733	0		0.21	ppbv
TO-15	Air	Dichlorotetrafluoroethane	0.4	0.087348046	0		0.088	ppbv
TO-15	Air	Ethyl Acetate	0.4	0.078161123	0		0.079	ppbv
TO-15	Air	Ethyl Benzene	0.4	0.115413562	0		0.12	ppbv
TO-15	Air	Heptane	0.4	0.100800637	0		0.11	ppbv
TO-15	Air	Hexachloro-1,3-Butadiene	0.4	0.084169773	0		0.085	ppbv
TO-15	Air	Hexane	0.4	0.106485082	0		0.11	ppbv
TO-15	Air	Isopropyl Alcohol	0.4	0.068329134	0		0.069	ppbv
TO-15	Air	Isopropylbenzene	0.4	0.086744608	0		0.087	ppbv
TO-15	Air	m/p-Xylene	0.4	0.205831125	0		0.21	ppbv
TO-15	Air	Methyl Methacrylate	0.4	0.085528753	0		0.086	ppbv
TO-15	Air	Methyl tert-Butyl Ether	0.4	0.119546728	0		0.12	ppbv
TO-15	Air	Methylene Chloride	0.4	0.18405265	0.11	VL039022.D	0.19	ppbv
TO-15	Air	Naphthalene	0.4	0.074961199	0		0.075	ppbv
TO-15	Air	Naphthalene,2-methyl-	0.4	0.148496389	0		0.15	ppbv
TO-15	Air	n-Butylbenzene	0.4	0.08201719	0		0.083	ppbv
TO-15	Air	n-propylbenzene	0.4	0.0778963	0		0.078	ppbv
TO-15	Air	o-Xylene	0.4	0.117630235	0		0.12	ppbv
TO-15	Air	p-Isopropyltoluene	0.4	0.085704866	0		0.086	ppbv
TO-15	Air	Propene	0.4	0.143790814	0.14	VL039337.D	0.15	ppbv
TO-15	Air	sec-Butylbenzene	0.4	0.093164076	0		0.094	ppbv
TO-15	Air	Styrene	0.4	0.109444442	0		0.11	ppbv
TO-15	Air	t-1,3-Dichloropropene	0.4	0.059734415	0		0.06	ppbv
TO-15	Air	tert-Butyl alcohol	0.4	0.187711954	0		0.19	ppbv
TO-15	Air	tert-Butylbenzene	0.4	0.092760327	0		0.093	ppbv
TO-15	Air	Tetrachloroethene	0.03	0.014462962	0		0.015	ppbv
TO-15	Air	Tetrahydrofuran	0.4	0.122655048	0		0.13	ppbv
TO-15	Air	Toluene	0.4	0.109284	0		0.11	ppbv
TO-15	Air	trans-1,2-Dichloroethene	0.4	0.185264638	0		0.19	ppbv
TO-15	Air	Trichloroethene	0.03	0.016558175	0		0.017	ppbv
TO-15	Air	Trichlorofluoromethane	0.4	0.157465794	0		0.16	ppbv
TO-15	Air	Vinyl Acetate	0.4	0.152371485	0		0.16	ppbv
TO-15	Air	Vinyl Chloride	0.03	0.013585954	0		0.014	ppbv
TO-15	Air	Ethanol	0.4	0.317031286	0		0.32	ug/L

StddevVal	StudentsT Value	Instrument ID	Datafile1	Concentration1	Adate1	Datafile2	Concentration2
0.03485153	2.602	MSVOA_L	VL038602.D	0.51	03142022T18:52:00	VL038645.D	0.494
0.003641772	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.029
0.003913651	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.026945624	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.439
0.059785032	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.466
0.047032569	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.456
0.053703158	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.411
0.032543048	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.336
0.029783385	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.396
0.027409244	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.352
0.028535869	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.407
0.034930824	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.445
0.02818865	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.406
0.038892534	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.374
0.047659163	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.419
0.030366374	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.428
0.020271388	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.418
0.077680086	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.285
0.038387498	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.383
0.045614143	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.406
0.040023691	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.375
0.030997782	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.283
0.043058052	2.602	MSVOA_L	VL038602.D	0.34	03142022T18:52:00	VL038645.D	0.356
0.035679067	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.282
0.090091042	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.468
0.055964125	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.392
0.033208182	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.407
0.066831349	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.454
0.029508191	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.408
0.044412039	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.433
0.021886069	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.31
0.052912467	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.404
0.060470378	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.357
0.004080441	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.026
0.028901845	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.467
0.033615225	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.468
0.062847932	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.453
0.031603534	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.464
0.037391621	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.439
0.033947938	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.391
0.024307749	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.317
0.083781636	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.414
0.02525132	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.359
0.080544708	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.43
0.033569579	2.602	MSVOA_L	VL038602.D	0.5	03142022T18:52:00	VL038645.D	0.472
0.030038864	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.412
0.044355712	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.357
0.038739676	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.349
0.032348107	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.5
0.04092432	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.411
0.026260236	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.44
0.033337666	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.387
0.079104967	2.602	MSVOA_L	VL038602.D	0.76	03142022T18:52:00	VL038645.D	0.762
0.032870389	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.334
0.045944169	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.418
0.070735069	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.479
0.02880907	2.602	MSVOA_L	VL038602.D	0.25	03142022T18:52:00	VL038645.D	0.289
0.057070096	2.602	MSVOA_L	VL038602.D	0.14	03142022T18:52:00	VL038645.D	0.074
0.031520826	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.029937087	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.365
0.045207623	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.368
0.032938073	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.05526165	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.443
0.035804795	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.392
0.042061661	2.602	MSVOA_L	VL038602.D	0.26	03142022T18:52:00	VL038645.D	0.275
0.022957116	2.602	MSVOA_L	VL038602.D	0.27	03142022T18:52:00	VL038645.D	0.29
0.072141412	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.459
0.035649626	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.405
0.005558402	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.047138758	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.324
0.042	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.332
0.07120086	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.396
0.006363634	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.060517215	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.472
0.058559372	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.389
0.00522135	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.105747594	2.998	MSVOA_L	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.43

Adate2	Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5
03182022T03:39:00	VL039242.D	0.45	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.033	07062022T09:13:00	VL039570.D
03212022T20:11:00	VL039329.D	0.029	06222022T20:53:00	VL039439.D	0.035	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.417	06082022T19:44:00	VL039436.D	0.445	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.615	06082022T19:44:00	VL039436.D	0.498	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.493	06082022T19:44:00	VL039436.D	0.545	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.594	06082022T19:44:00	VL039436.D	0.485	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.318	06082022T19:44:00	VL039436.D	0.328	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.389	06082022T19:44:00	VL039436.D	0.387	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.391	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.435	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.404	06082022T19:44:00	VL039436.D	0.451	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.583	06082022T19:44:00	VL039436.D	0.486	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.454	06082022T19:44:00	VL039436.D	0.535	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.37	06082022T19:44:00	VL039436.D	0.425	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.438	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.415	06082022T19:44:00	VL039436.D	0.401	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.31	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.371	06082022T19:44:00	VL039436.D	0.372	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.649	06082022T19:44:00	VL039436.D	0.621	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.58	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.429	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.328	06082022T19:44:00	VL039436.D	0.438	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.398	06082022T19:44:00	VL039436.D	0.395	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.526	06082022T19:44:00	VL039436.D	0.475	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.335	06082022T19:44:00	VL039436.D	0.322	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.535	06082022T19:44:00	VL039436.D	0.503	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.389	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.028	06222022T20:53:00	VL039439.D	0.03	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.473	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.489	06082022T19:44:00	VL039436.D	0.483	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.595	06082022T19:44:00	VL039436.D	0.52	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.453	06082022T19:44:00	VL039436.D	0.469	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.5	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.434	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.315	06082022T19:44:00	VL039436.D	0.327	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.428	06082022T19:44:00	VL039436.D	0.512	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.359	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.618	06082022T19:44:00	VL039436.D	0.675	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.551	06082022T19:44:00	VL039436.D	0.51	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.376	06082022T19:44:00	VL039436.D	0.441	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.374	06082022T19:44:00	VL039436.D	0.381	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.33	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.444	06082022T19:44:00	VL039436.D	0.472	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.47	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.504	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.425	06082022T19:44:00	VL039436.D	0.416	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.815	06082022T19:44:00	VL039436.D	0.805	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.347	06082022T19:44:00	VL039436.D	0.361	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.492	06082022T19:44:00	VL039436.D	0.452	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.684	06082022T19:44:00	VL039436.D	0.578	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.282	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.155	06082022T19:44:00	VL039436.D	0.143	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.39	06082022T19:44:00	VL039436.D	0.374	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.403	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.378	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.435	06082022T19:44:00	VL039436.D	0.521	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.411	06082022T19:44:00	VL039436.D	0.406	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.345	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.279	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.655	06082022T19:44:00	VL039436.D	0.505	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.346	06082022T19:44:00	VL039436.D	0.38	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.341	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.64	06082022T19:44:00	VL039436.D	0.494	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.038	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.596	06082022T19:44:00	VL039436.D	0.492	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.437	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.043	06222022T20:53:00	VL039439.D	0.036	07062022T09:13:00	VL039570.D
02232022T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.633	04122023T23:23:00	VL040559.D

Concentration5	Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7
0.433	08182022T21:04:00	VL039600.D	0.463	08262022T12:33:00	VL039709.D	0.402	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.404	08182022T21:04:00	VL039600.D	0.424	08262022T12:33:00	VL039709.D	0.412	10102022T23:30:00
0.448	08182022T21:04:00	VL039600.D	0.454	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.426	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.445	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.387	08262022T12:33:00	VL039709.D	0.427	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.342	08182022T21:04:00	VL039600.D	0.389	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.402	08262022T12:33:00	VL039709.D	0.375	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.431	08262022T12:33:00	VL039709.D	0.448	10102022T23:30:00
0.411	08182022T21:04:00	VL039600.D	0.455	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.444	08182022T21:04:00	VL039600.D	0.429	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.331	08182022T21:04:00	VL039600.D	0.357	08262022T12:33:00	VL039709.D	0.342	10102022T23:30:00
0.405	08182022T21:04:00	VL039600.D	0.449	08262022T12:33:00	VL039709.D	0.422	10102022T23:30:00
0.368	08182022T21:04:00	VL039600.D	0.414	08262022T12:33:00	VL039709.D	0.399	10102022T23:30:00
0.404	08182022T21:04:00	VL039600.D	0.384	08262022T12:33:00	VL039709.D	0.439	10102022T23:30:00
0.373	08182022T21:04:00	VL039600.D	0.341	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.348	08182022T21:04:00	VL039600.D	0.379	08262022T12:33:00	VL039709.D	0.392	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.312	08182022T21:04:00	VL039600.D	0.359	08262022T12:33:00	VL039709.D	0.348	10102022T23:30:00
0.27	08182022T21:04:00	VL039600.D	0.294	08262022T12:33:00	VL039709.D	0.326	10102022T23:30:00
0.284	08182022T21:04:00	VL039600.D	0.348	08262022T12:33:00	VL039709.D	0.355	10102022T23:30:00
0.322	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.32	10102022T23:30:00
0.363	08182022T21:04:00	VL039600.D	0.484	08262022T12:33:00	VL039709.D	0.5	10102022T23:30:00
0.418	08182022T21:04:00	VL039600.D	0.459	08262022T12:33:00	VL039709.D	0.379	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.376	08262022T12:33:00	VL039709.D	0.398	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.336	08262022T12:33:00	VL039709.D	0.356	10102022T23:30:00
0.382	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.377	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.441	08262022T12:33:00	VL039709.D	0.388	10102022T23:30:00
0.305	08182022T21:04:00	VL039600.D	0.303	08262022T12:33:00	VL039709.D	0.293	10102022T23:30:00
0.364	08182022T21:04:00	VL039600.D	0.494	08262022T12:33:00	VL039709.D	0.464	10102022T23:30:00
0.399	08182022T21:04:00	VL039600.D	0.268	08262022T12:33:00	VL039709.D	0.332	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.027	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.431	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.46	10102022T23:30:00
0.456	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.446	10102022T23:30:00
0.462	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.531	10102022T23:30:00
0.423	08182022T21:04:00	VL039600.D	0.46	08262022T12:33:00	VL039709.D	0.411	10102022T23:30:00
0.392	08182022T21:04:00	VL039600.D	0.472	08262022T12:33:00	VL039709.D	0.485	10102022T23:30:00
0.36	08182022T21:04:00	VL039600.D	0.407	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.277	08182022T21:04:00	VL039600.D	0.291	08262022T12:33:00	VL039709.D	0.284	10102022T23:30:00
0.376	08182022T21:04:00	VL039600.D	0.395	08262022T12:33:00	VL039709.D	0.383	10102022T23:30:00
0.339	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.301	10102022T23:30:00
0.62	08182022T21:04:00	VL039600.D	0.643	08262022T12:33:00	VL039709.D	0.694	10102022T23:30:00
0.454	08182022T21:04:00	VL039600.D	0.508	08262022T12:33:00	VL039709.D	0.473	10102022T23:30:00
0.341	08182022T21:04:00	VL039600.D	0.432	08262022T12:33:00	VL039709.D	0.395	10102022T23:30:00
0.297	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.334	10102022T23:30:00
0.347	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.407	10102022T23:30:00
0.447	08182022T21:04:00	VL039600.D	0.502	08262022T12:33:00	VL039709.D	0.468	10102022T23:30:00
0.385	08182022T21:04:00	VL039600.D	0.405	08262022T12:33:00	VL039709.D	0.435	10102022T23:30:00
0.458	08182022T21:04:00	VL039600.D	0.434	08262022T12:33:00	VL039709.D	0.481	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.388	08262022T12:33:00	VL039709.D	0.405	10102022T23:30:00
0.673	08182022T21:04:00	VL039600.D	0.719	08262022T12:33:00	VL039709.D	0.688	10102022T23:30:00
0.3	08182022T21:04:00	VL039600.D	0.323	08262022T12:33:00	VL039709.D	0.346	10102022T23:30:00
0.337	08182022T21:04:00	VL039600.D	0.355	08262022T12:33:00	VL039709.D	0.396	10102022T23:30:00
0.536	08182022T21:04:00	VL039600.D	0.634	08262022T12:33:00	VL039709.D	0.499	10102022T23:30:00
0.28	08182022T21:04:00	VL039600.D	0.302	08262022T12:33:00	VL039709.D	0.291	10102022T23:30:00
0.158	08182022T21:04:00	VL039600.D	0.094	08262022T12:33:00	VL039709.D	0.149	10102022T23:30:00
0.321	08182022T21:04:00	VL039600.D	0.354	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.332	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.347	10102022T23:30:00
0.315	08182022T21:04:00	VL039600.D	0.347	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.316	08182022T21:04:00	VL039600.D	0.362	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.499	08182022T21:04:00	VL039600.D	0.578	08262022T12:33:00	VL039709.D	0.533	10102022T23:30:00
0.359	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.23	08182022T21:04:00	VL039600.D	0.257	08262022T12:33:00	VL039709.D	0.278	10102022T23:30:00
0.252	08182022T21:04:00	VL039600.D	0.252	08262022T12:33:00	VL039709.D	0.273	10102022T23:30:00
0.384	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.454	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.399	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.038	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.299	08182022T21:04:00	VL039600.D	0.344	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.288	08182022T21:04:00	VL039600.D	0.296	08262022T12:33:00	VL039709.D	0.33	10102022T23:30:00
0.375	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.437	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.04	10112022T00:45:00
0.436	08182022T21:04:00	VL039600.D	0.47	08262022T12:33:00	VL039709.D	0.385	10102022T23:30:00
0.42	08182022T21:04:00	VL039600.D	0.483	08262022T12:33:00	VL039709.D	0.363	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.636	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.607	10042023T19:33:00

Datafile8	Concentration8	Adate8	Datafile9	Concentration9	Adate9	Datafile10	Concentration10
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.383	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.038	02232023T14:26:00	VL040223.D	0.033
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.032	02232023T14:26:00	VL040223.D	0.027
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.476	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.436	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.452	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.299	02222023T00:52:00	VL040220.D	0.32
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.375	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.38	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.434	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.344	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.396	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.402	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.387	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.34	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.318	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.321	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.337	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.45	01302023T15:54:00	VL040210.D	0.482	02222023T00:52:00	VL040220.D	0.5
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.411	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.359	02222023T00:52:00	VL040220.D	0.39
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.311	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.413	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.32	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.408	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.31	01302023T15:54:00	VL040210.D	0.391	02222023T00:52:00	VL040220.D	0.37
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.037
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.414	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.474	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.47	01302023T15:54:00	VL040210.D	0.445	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.46	01302023T15:54:00	VL040210.D	0.443	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.435	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.284	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.49	01302023T15:54:00	VL040210.D	0.521	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.343	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.48	01302023T15:54:00	VL040210.D	0.497	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.431	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.398	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.309	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.336	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.4	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.479	02222023T00:52:00	VL040220.D	0.48
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.361	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.71	01302023T15:54:00	VL040210.D	0.699	02222023T00:52:00	VL040220.D	0.75
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.314	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.558	02222023T00:52:00	VL040220.D	0.57
VL040134.D	0.27	01302023T15:54:00	VL040210.D	0.246	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.19	01302023T15:54:00	VL040210.D	0.116	02222023T00:52:00	VL040220.D	0.21
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.354	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.331	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.329	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.262	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.3	01302023T15:54:00	VL040210.D	0.292	02222023T00:52:00	VL040220.D	0.3
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.36
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.029	02232023T14:26:00	VL040223.D	0.031
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.368	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.297	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.397	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.027	02232023T14:26:00	VL040223.D	0.028
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.451	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.4
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.038
VL040805.D	0.675	10252023T18:12:00					

Adate10	Datafile11	Concentration11	Adate11	Datafile12	Concentration1 2	Adate12	Datafile13
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.434	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.027	04122023T19:50:00	VL040576.D
02232023T15:04:00	VL040332.D	0.023	04102023T19:33:00	VL040346.D	0.03	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.403	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.429	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.4	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.419	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.302	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.398	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.385	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.311	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.448	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.392	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.33	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.356	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.451	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.28	04102023T17:39:00	VL040349.D	0.29	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.303	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.58	04102023T17:39:00	VL040349.D	0.582	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.421	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.397	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.415	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.337	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.51	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.342	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.025	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.433	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.453	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.4	04102023T17:39:00	VL040349.D	0.487	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.456	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.455	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.376	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.287	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.35	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.483	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.467	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.394	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.336	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.441	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.442	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.363	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.66	04102023T17:39:00	VL040349.D	0.659	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.305	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.533	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.261	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.21	04102023T17:39:00	VL040349.D	0.19	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.334	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.345	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.314	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.465	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.335	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.257	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.27	04102023T17:39:00	VL040349.D	0.256	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.022	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.347	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.291	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.391	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.029	04102023T19:33:00	VL040346.D	0.028	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.47	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.58	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.024	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D

Concentration13	Adate13	Datafile14	Concentration14	Adate14	Datafile15	Concentration15	Adate15
0.48	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.488	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.031	07312023T20:41:00	VL040772.D	0.035	10122023T01:48:00
0.031	07312023T17:18:00	VL040581.D	0.026	07312023T20:41:00	VL040772.D	0.029	10122023T01:48:00
0.459	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.405	10042023T19:33:00
0.573	07272023T03:27:00	VL040579.D	0.5	07312023T19:20:00	VL040747.D	0.557	10042023T19:33:00
0.535	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.527	10042023T19:33:00
0.527	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.481	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.305	10042023T19:33:00
0.389	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.361	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.359	10042023T19:33:00
0.442	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.45	10042023T19:33:00
0.519	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.452	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.42	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.321	10042023T19:33:00
0.412	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.466	10042023T19:33:00
0.388	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.412	10042023T19:33:00
0.438	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.382	10042023T19:33:00
0.373	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.257	10042023T19:33:00
0.398	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.335	10042023T19:33:00
0.448	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.443	10042023T19:33:00
0.35	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.325	10042023T19:33:00
0.303	07272023T03:27:00	VL040579.D	0.22	07312023T19:20:00	VL040747.D	0.283	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.348	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.302	10042023T19:33:00
0.674	07272023T03:27:00	VL040579.D	0.48	07312023T19:20:00	VL040747.D	0.65	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.511	10042023T19:33:00
0.397	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.307	10042023T19:33:00
0.467	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.409	10042023T19:33:00
0.508	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.506	10042023T19:33:00
0.352	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.349	10042023T19:33:00
0.543	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.496	10042023T19:33:00
0.46	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.477	10042023T19:33:00
0.036	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.031	10122023T01:48:00
0.481	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.489	10042023T19:33:00
0.526	07272023T03:27:00	VL040579.D	0.45	07312023T19:20:00	VL040747.D	0.55	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.576	10042023T19:33:00
0.521	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.501	10042023T19:33:00
0.486	07272023T03:27:00	VL040579.D	0.39	07312023T19:20:00	VL040747.D	0.544	10042023T19:33:00
0.405	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.431	10042023T19:33:00
0.295	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.298	10042023T19:33:00
0.301	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.403	07272023T03:27:00	VL040579.D	0.35	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.54	07272023T03:27:00	VL040579.D	0.47	07312023T19:20:00	VL040747.D	0.562	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.509	10042023T19:33:00
0.424	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.441	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.299	10042023T19:33:00
0.341	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.355	10042023T19:33:00
0.466	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.479	10042023T19:33:00
0.38	07272023T03:27:00	VL040579.D	0.31	07312023T19:20:00	VL040747.D	0.465	10042023T19:33:00
0.451	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.379	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.735	07272023T03:27:00	VL040579.D	0.54	07312023T19:20:00	VL040747.D	0.682	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.324	10042023T19:33:00
0.468	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.472	10042023T19:33:00
0.619	07272023T03:27:00	VL040579.D	0.62	07312023T19:20:00	VL040747.D	0.625	10042023T19:33:00
0.274	07272023T03:27:00	VL040579.D	0.19	07312023T19:20:00	VL040747.D	0.258	10042023T19:33:00
0.107	07272023T03:27:00	VL040579.D	0.06	07312023T19:20:00	VL040747.D	0.133	10042023T19:33:00
0.361	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.343	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.369	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.301	10042023T19:33:00
0.357	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.313	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.471	10042023T19:33:00
0.393	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.354	10042023T19:33:00
0.242	07272023T03:27:00	VL040579.D	0.17	07312023T19:20:00	VL040747.D	0.266	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.312	10042023T19:33:00
0.539	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.394	10042023T19:33:00
0.366	07272023T03:27:00	VL040579.D	0.28	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.025	07312023T17:18:00	VL040581.D	0.028	07312023T20:41:00	VL040772.D	0.044	10122023T01:48:00
0.353	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.351	10042023T19:33:00
0.285	07272023T03:27:00	VL040579.D	0.2	07312023T19:20:00	VL040747.D	0.288	10042023T19:33:00
0.477	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.507	10042023T19:33:00
0.027	07312023T17:18:00	VL040581.D	0.027	07312023T20:41:00	VL040772.D	0.039	10122023T01:48:00
0.589	07272023T03:27:00	VL040579.D	0.52	07312023T19:20:00	VL040747.D	0.561	10042023T19:33:00
0.487	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.456	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.041	10122023T01:48:00

Datafile16	Concentration16	Adate16	Department	AVG Concentration	Recovery
VL040805.D	0.428	10252023T18:12:00	VOC	0.45	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.03	100
VL040805.D	0.471	10252023T18:12:00	VOC	0.42	110
VL040805.D	0.476	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.427	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.47	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.288	10252023T18:12:00	VOC	0.31	79
VL040805.D	0.435	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.433	10252023T18:12:00	VOC	0.38	95
VL040805.D	0.405	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.501	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.456	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.403	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.455	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.412	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.414	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.486	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.434	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.467	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.42	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.353	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.397	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.403	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.576	10252023T18:12:00	VOC	0.53	130
VL040805.D	0.422	10252023T18:12:00	VOC	0.43	110
VL040805.D	0.445	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.205	10252023T18:12:00	VOC	0.36	91
VL040805.D	0.458	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.436	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.34	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.508	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.361	10252023T18:12:00	VOC	0.38	95
VL040787.D	0.04	10232023T20:32:00	VOC	0.031	100
VL040805.D	0.454	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.517	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.487	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.458	10252023T18:12:00	VOC	0.46	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.4	99
VL040805.D	0.335	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.416	10252023T18:12:00	VOC	0.39	96
VL040805.D	0.384	10252023T18:12:00	VOC	0.36	89
VL040805.D	0.516	10252023T18:12:00	VOC	0.54	140
VL040805.D	0.505	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.404	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.406	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.404	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.446	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.452	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.442	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.435	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.888	10252023T18:12:00	VOC	0.72	180
VL040805.D	0.348	10252023T18:12:00	VOC	0.32	80
VL040805.D	0.353	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.619	10252023T18:12:00	VOC	0.56	140
VL040805.D	0.226	10252023T18:12:00	VOC	0.27	66
VL040805.D	0	10252023T18:12:00	VOC	0.14	35
VL040805.D	0.415	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.389	10252023T18:12:00	VOC	0.35	89
VL040805.D	0.439	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.381	10252023T18:12:00	VOC	0.34	85
VL040805.D	0.467	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.449	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.35	10252023T18:12:00	VOC	0.27	67
VL040805.D	0.291	10252023T18:12:00	VOC	0.28	70
VL040805.D	0.37	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.427	10252023T18:12:00	VOC	0.37	92
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040805.D	0.416	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.38	10252023T18:12:00	VOC	0.31	78
VL040805.D	0.435	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.05	10232023T20:32:00	VOC	0.033	110
VL040805.D	0.506	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.341	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.033	110
			VOC	0.544	136



QC SUMMARY

Surrogate Summary

SDG No.: P5293

Client: Tetra Tech, EMI

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5293-01	C0AB9	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
P5293-01DUP	C0AB9DUP	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
P5293-02	C0AC0	1-Bromo-4-Fluorobenzene	10	10.4	104	65	135
P5293-03	C0AC1	1-Bromo-4-Fluorobenzene	10	10.9	109	65	135
P5293-03DL	C0AC1DL	1-Bromo-4-Fluorobenzene	10	10.7	107	65	135
VL1218ABL02	VL1218ABL02	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL1218ABS01	VL1218ABS01	1-Bromo-4-Fluorobenzene	10	10.8	108	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5293

Client: Tetra Tech, EMI

Analytical Method: SWTO-15

Datafile : VL041795.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1218ABS01	Dichlorodifluoromethane	10	8.70	ppbv	87			70	130	
	Chloromethane	10	9.30	ppbv	93			70	130	
	Vinyl Chloride	10	8.70	ppbv	87			70	130	
	Bromomethane	10	8.80	ppbv	88			70	130	
	Chloroethane	10	9.10	ppbv	91			70	130	
	Tetrahydrofuran	10	8.10	ppbv	81			70	130	
	Trichlorofluoromethane	10	9.60	ppbv	96			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.20	ppbv	92			70	130	
	Dichlorotetrafluoroethane	10	9.50	ppbv	95			70	130	
	tert-Butyl Alcohol	10	8.80	ppbv	88			70	130	
	Heptane	10	8.10	ppbv	81			70	130	
	1,1-Dichloroethene	10	8.80	ppbv	88			70	130	
	Acetone	10	7.80	ppbv	78			70	130	
	Carbon disulfide	10	8.50	ppbv	85			70	130	
	Methyl tert-butyl Ether	10	7.90	ppbv	79			70	130	
	Methylene Chloride	10	8.80	ppbv	88			70	130	
	trans-1,2-Dichloroethene	10	8.60	ppbv	86			70	130	
	1,1-Dichloroethane	10	9.10	ppbv	91			70	130	
	Cyclohexane	10	7.80	ppbv	78			70	130	
	2-Butanone	10	8.50	ppbv	85			70	130	
	Carbon Tetrachloride	10	10.9	ppbv	109			70	130	
	cis-1,2-Dichloroethene	10	8.00	ppbv	80			70	130	
	Chloroform	10	9.20	ppbv	92			70	130	
	1,1,1-Trichloroethane	10	8.80	ppbv	88			70	130	
	2,2,4-Trimethylpentane	10	8.80	ppbv	88			70	130	
	Benzene	10	8.70	ppbv	87			70	130	
	1,2-Dichloroethane	10	9.60	ppbv	96			70	130	
	Trichloroethene	10	7.90	ppbv	79			70	130	
	1,2-Dichloropropane	10	8.50	ppbv	85			70	130	
	Bromodichloromethane	10	9.80	ppbv	98			70	130	
	4-Methyl-2-Pentanone	10	8.80	ppbv	88			70	130	
	Toluene	10	8.30	ppbv	83			70	130	
	t-1,3-Dichloropropene	10	7.90	ppbv	79			70	130	
	cis-1,3-Dichloropropene	10	7.80	ppbv	78			70	130	
	1,1,2-Trichloroethane	10	9.10	ppbv	91			70	130	
	Dibromochloromethane	10	9.90	ppbv	99			70	130	
	1,2-Dibromoethane	10	9.20	ppbv	92			70	130	
	Tetrachloroethene	10	7.70	ppbv	77			70	130	
	Chlorobenzene	10	9.40	ppbv	94			70	130	
	Ethyl Benzene	10	9.30	ppbv	93			70	130	
	m/p-Xylene	20	19.7	ppbv	99			70	130	
	o-Xylene	10	9.90	ppbv	99			70	130	
	Styrene	10	9.50	ppbv	95			70	130	
	Bromoform	10	10.1	ppbv	101			70	130	
	1,1,2,2-Tetrachloroethane	10	9.80	ppbv	98			70	130	
	2-Chlorotoluene	10	9.60	ppbv	96			70	130	
	1,3,5-Trimethylbenzene	10	10.6	ppbv	106			70	130	
	1,2,4-Trimethylbenzene	10	10.7	ppbv	107			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5293

Client: Tetra Tech, EMI

Analytical Method: SWTO-15

Datafile : VL041795.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1218ABS01	1,3-Dichlorobenzene	10	9.80	ppbv	98			70	130	
	1,4-Dichlorobenzene	10	9.90	ppbv	99			70	130	
	1,2-Dichlorobenzene	10	9.90	ppbv	99			70	130	
	1,2,4-Trichlorobenzene	10	9.60	ppbv	96			70	130	
	Hexachloro-1,3-butadiene	10	8.00	ppbv	80			70	130	
	Naphthalene	10	11.2	ppbv	112			70	130	
	1,3-Butadiene	10	9.50	ppbv	95			70	130	
	4-Ethyltoluene	10	10.1	ppbv	101			70	130	
	Hexane	10	8.20	ppbv	82			70	130	
	Allyl Chloride	10	8.90	ppbv	89			70	130	
	1,4-Dioxane	10	8.60	ppbv	86			70	130	
	Methyl methacrylate	10	8.40	ppbv	84			70	130	

Duplicate Sample Summary

Lab Sample Id :	P5293-01DUP	P5293-01
Client Id :	C0AB9DUP	C0AB9
DF :	1	1
Datafile :	VL041798.D	VL041797.D
Anal Date & Time :	12/18/2024 17:43	12/18/2024 17:10

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0.12	0.11	8.7
2-Butanone	0.21	0.2	4.9
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	3.3	3.2	3.1
Allyl Chloride	0	0	0
Benzene	0.23	0.21	9.1
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.06	15.4

Duplicate Sample Summary

Lab Sample Id :	P5293-01DUP	P5293-01
Client Id :	C0AB9DUP	C0AB9
DF :	1	1
Datafile :	VL041798.D	VL041797.D
Anal Date & Time :	12/18/2024 17:43	12/18/2024 17:10

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	2.6	3	14.3
Chloromethane	0.4	0.39	2.5
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.43	0.41	4.8
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.5	2.1	33.3 *
m/p-Xylene	0.13	0	200 *
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	10.6	12.7	18
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0.33	0.3	9.5
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.2	0.21	4.9
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1218ABL02

Lab Name: CHEMTECH

Contract: TETR16

Lab Code: CHEM Case No.: P5293

SAS No.: P5293 SDG NO.: P5293

Lab File ID: VL041790.D

Lab Sample ID: VL1218ABL02

Date Analyzed: 12/18/2024

Time Analyzed: 12:28

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
VL1218ABS01	VL1218ABS01	VL041795.D	12/18/2024
C0AB9	P5293-01	VL041797.D	12/18/2024
C0AB9DUP	P5293-01DUP	VL041798.D	12/18/2024
C0AC0	P5293-02	VL041799.D	12/18/2024
C0AC1	P5293-03	VL041800.D	12/18/2024
C0AC1DL	P5293-03DL	VL041810.D	12/19/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR16
Lab Code: CHEM Case No.: P5293 SAS No.: P5293 SDG NO.: P5293
Lab File ID: VL041750.D BFB Injection Date: 12/16/2024
Instrument ID: MSVOA_L BFB Injection Time: 12:02
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	25.4
75	30.0 - 66.0% of mass 95	61.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.2
175	4.0 - 9.0% of mass 174	3.4 (5.5) 1
176	93.0 - 101.0% of mass 174	60 (95) 1
177	5.0 - 9.0% of mass 176	3.8 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041752.D	12/16/2024	13:30
VSTDICCC002	VSTDICCC002	VL041753.D	12/16/2024	14:03
VSTDICCC001	VSTDICCC001	VL041754.D	12/16/2024	14:34
VSTDICCC0.5	VSTDICCC0.5	VL041755.D	12/16/2024	15:05
VSTDICCC0.1	VSTDICCC0.1	VL041756.D	12/16/2024	15:37
VSTDICCC0.03	VSTDICCC0.03	VL041757.D	12/16/2024	16:08
VSTDICCC015	VSTDICCC015	VL041758.D	12/16/2024	16:41

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR16
Lab Code: CHEM Case No.: P5293 SAS No.: P5293 SDG NO.: P5293
Lab File ID: VL041787.D BFB Injection Date: 12/18/2024
Instrument ID: MSVOA_L BFB Injection Time: 08:06
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	27.5
75	30.0 - 66.0% of mass 95	63.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.2 (0.4) 1
174	50.0 - 120.0% of mass 95	57.6
175	4.0 - 9.0% of mass 174	4.2 (7.3) 1
176	93.0 - 101.0% of mass 174	55.5 (96.3) 1
177	5.0 - 9.0% of mass 176	3.3 (5.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL041788.D	12/18/2024	10:29
VL1218ABL02	VL1218ABL02	VL041790.D	12/18/2024	12:28
VL1218ABS01	VL1218ABS01	VL041795.D	12/18/2024	16:06
C0AB9	P5293-01	VL041797.D	12/18/2024	17:10
C0AB9DUP	P5293-01DUP	VL041798.D	12/18/2024	17:43
C0AC0	P5293-02	VL041799.D	12/18/2024	18:17
C0AC1	P5293-03	VL041800.D	12/18/2024	18:50
C0AC1DL	P5293-03DL	VL041810.D	12/19/2024	00:11

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR16
Lab Code: CHEM Case No.: P5293 SAS No.: P5293 SDG NO.: P5293
Lab File ID: VL041788.D Date Analyzed: 12/18/2024
Instrument ID: MSVOA_L Time Analyzed: 10:29
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	76040	2.78	198370	3.95	172190	8.88
UPPER LIMIT	106456	3.11	277718	4.28	241066	9.21
LOWER LIMIT	45624	2.45	119022	3.62	103314	8.55
EPA SAMPLE NO.						
C0AB9	71328	2.80	174211	3.98	152989	8.90
C0AB9DUP	72121	2.80	176581	3.98	152305	8.89
C0AC0	71492	2.80	174715	3.98	153485	8.90
C0AC1	75472	2.80	186655	3.97	166096	8.89
C0AC1DL	74135	2.79	177633	3.97	156162	8.89
VL1218ABL02	70249	2.79	175356	3.97	151060	8.89
VL1218ABS01	72600	2.80	183255	3.97	159496	8.90

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:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB9	SDG No.:	P5293
Lab Sample ID:	P5293-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041797.D	1		12/18/24 17:10	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.41	2.03	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.39	0.81	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.20	7.60		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	12.7	44.1		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	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	0.20	0.59	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.060	0.38		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	3.00	14.7		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.11	0.51	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.21	0.67	J	0.29	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
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.30	1.13	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB9	SDG No.:	P5293
Lab Sample ID:	P5293-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041797.D	1		12/18/24 17:10	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	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	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	2.10	7.40		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	71300		2.797			
540-36-3	1,4-Difluorobenzene	174000		3.975			
3114-55-4	Chlorobenzene-d5	153000		8.898			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB9	SDG No.:	P5293
Lab Sample ID:	P5293-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041797.D	1		12/18/24 17:10	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL121824\
 Data File : VL041797.D
 Acq On : 18 Dec 2024 17:10
 Operator : SY/MD
 Sample : P5293-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:56:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	71328	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	174211	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	152989	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	130229	10.215	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	5246	0.413	ppbv	94
3) Chlorodifluoromethane	1.479	51	3227m	0.277	ppbv	
4) Chloromethane	1.534	50	1923	0.387	ppbv	98
9) Propene	1.492	41	8186m	1.624	ppbv	
11) Trichlorofluoromethane	1.884	101	2866	0.213	ppbv	90
13) Ethanol	1.725	45	205824	493.023	ppbv	94
15) Acetone	1.842	43	44740	3.224	ppbv #	85
19) Isopropyl Alcohol	1.894	45	5535	0.665	ppbv #	1
20) Methylene Chloride	2.068	84	50434	12.744	ppbv	99
26) Hexane	2.839	57	20909	2.134	ppbv #	31
29) Chloroform	2.858	83	44135	2.956	ppbv	99
34) 2-Butanone	2.570	43	2830	0.202	ppbv	99
35) Carbon Tetrachloride	3.781	117	751m	0.061	ppbv	
36) Benzene	3.670	78	3686	0.205	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	3240m	0.105	ppbv	
53) Toluene	6.952	91	6176m	0.302	ppbv	
59) m/p-Xylene	9.538	91	2804m	0.127	ppbv	

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

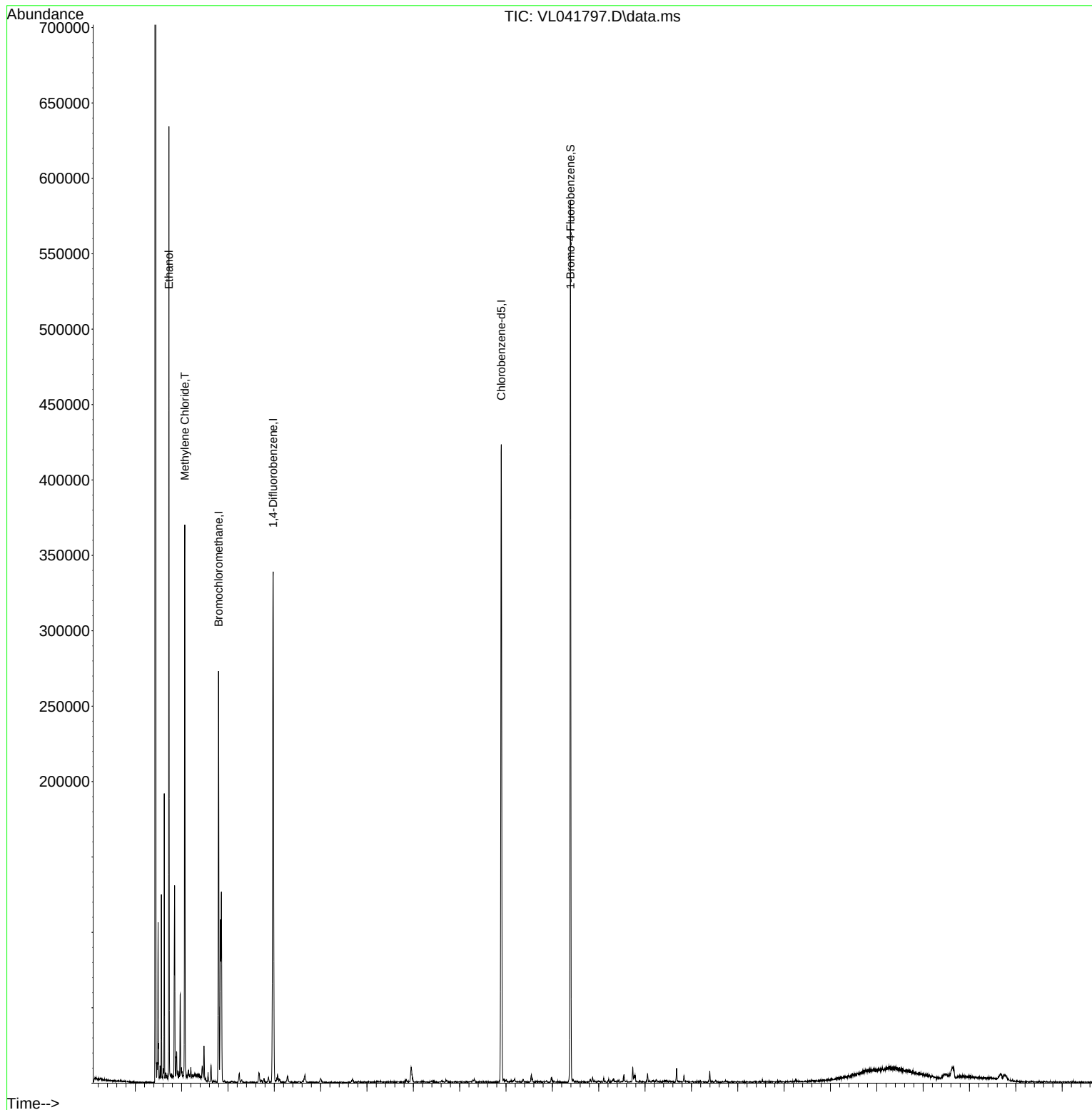
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Data File : VL041797.D
Acq On : 18 Dec 2024 17:10
Operator : SY/MD
Sample : P5293-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

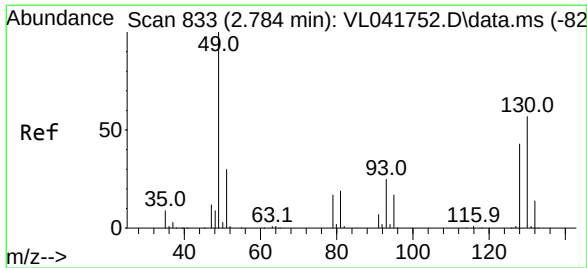
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

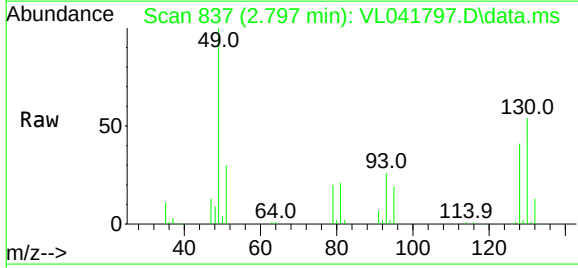
Quant Time: Dec 19 07:56:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

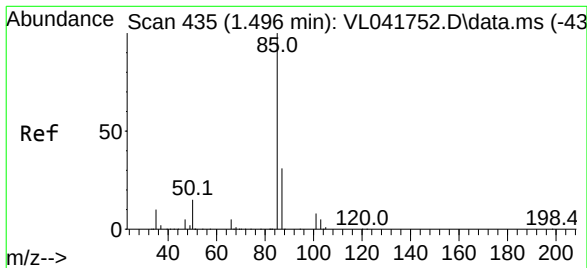
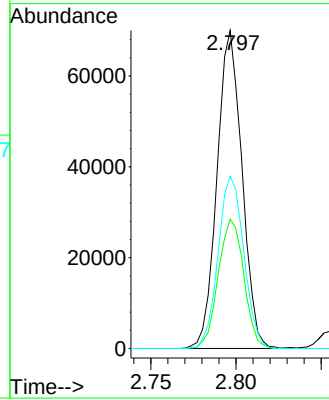
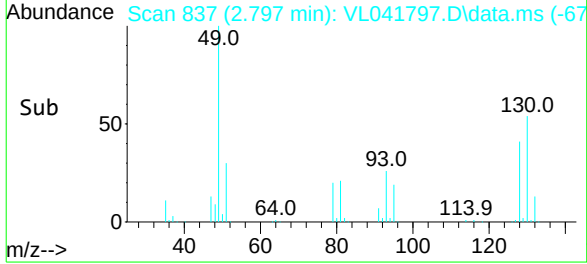
Instrument :
MSVOA_L
ClientSampleId :
C0AB9



Tgt Ion: 49 Resp: 71328
Ion Ratio Lower Upper
49 100
128 41.6 21.6 64.6
130 55.8 28.3 85.0

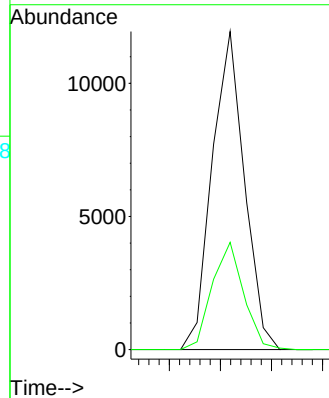
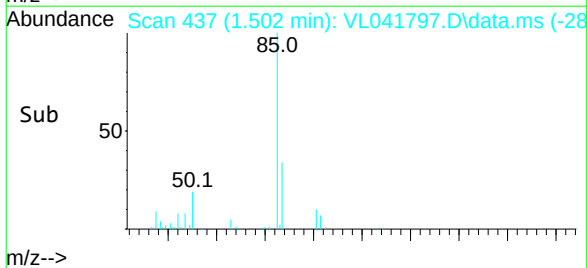
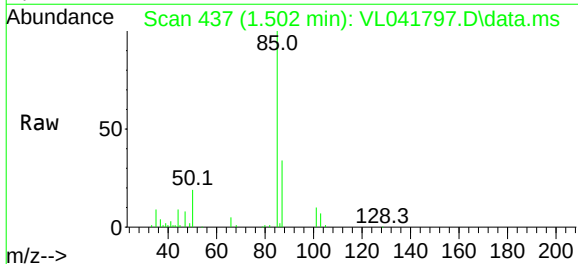
Manual Integrations
APPROVED

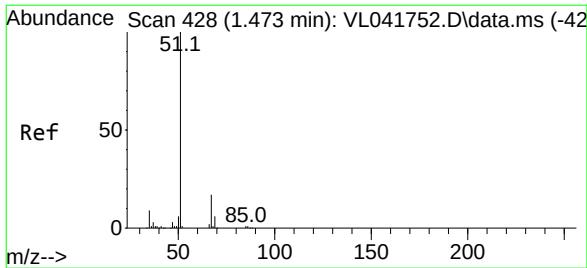
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 0.413 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 85 Resp: 5246
Ion Ratio Lower Upper
85 100
87 33.7 24.5 36.7





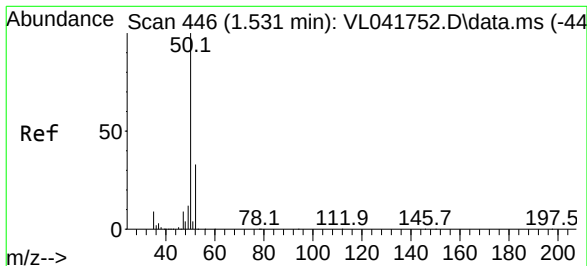
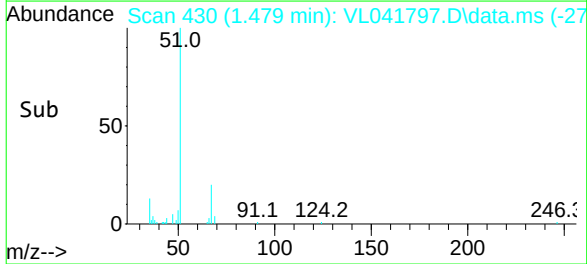
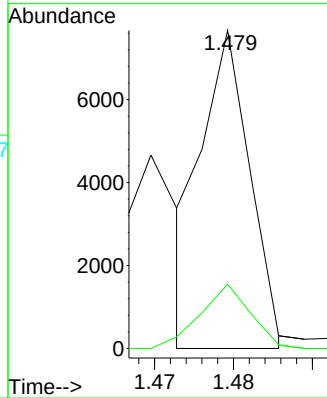
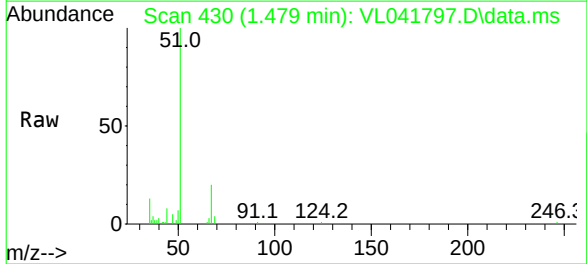
#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 1.479 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Instrument :
MSVOA_L
ClientSampleId :
C0AB9

Tgt Ion: 51 Resp: 3227
Ion Ratio Lower Upper
51 100
67 2.0 15.0 22.4#

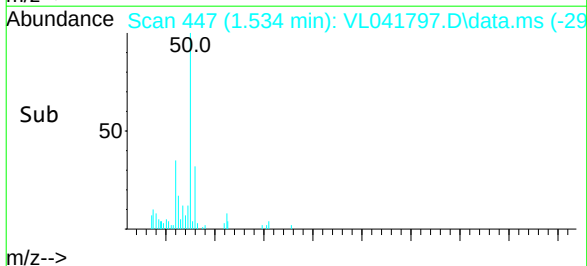
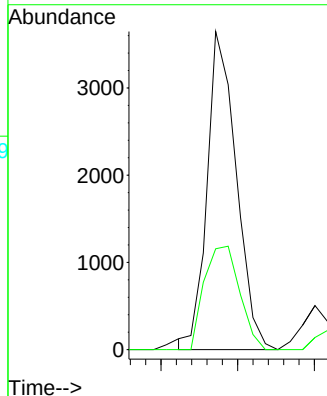
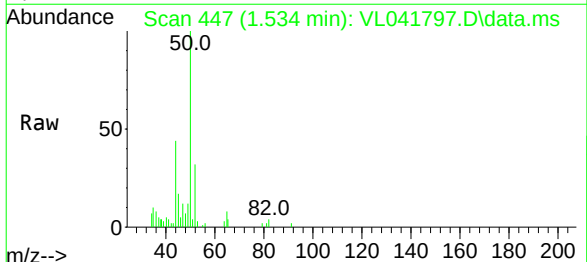
Manual Integrations
APPROVED

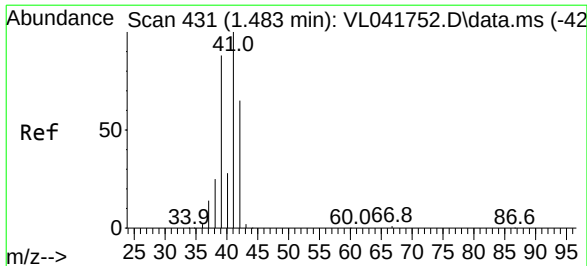
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#4
Chloromethane
Concen: 0.387 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

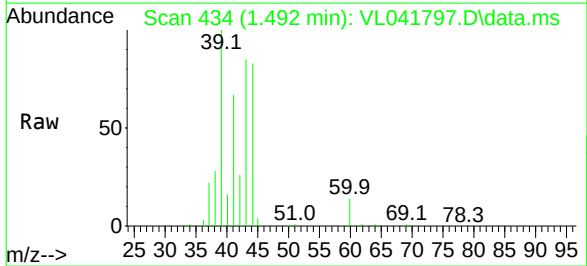
Tgt Ion: 50 Resp: 1923
Ion Ratio Lower Upper
50 100
52 31.7 26.2 39.2





#9
 Propene
 Concen: 1.624 ppbv m
 RT: 1.492 min Scan# 431
 Delta R.T. 0.009 min
 Lab File: VL041797.D
 Acq: 18 Dec 2024 17:10

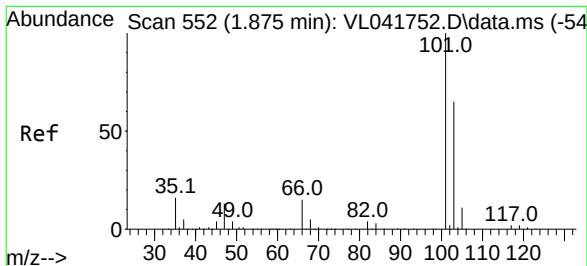
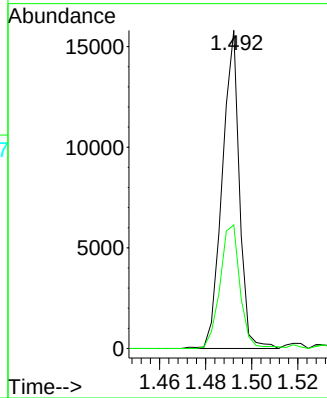
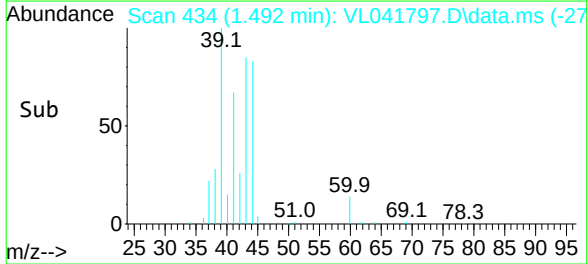
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB9



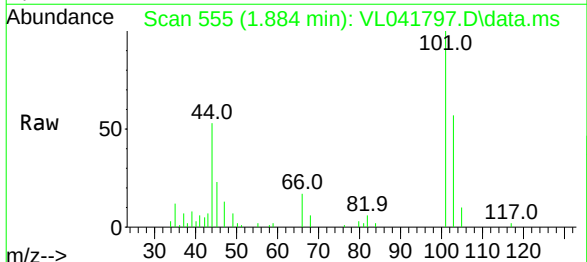
Tgt Ion: 41 Resp: 8186
 Ion Ratio Lower Upper
 41 100
 42 70.9 52.4 78.6

Manual Integrations
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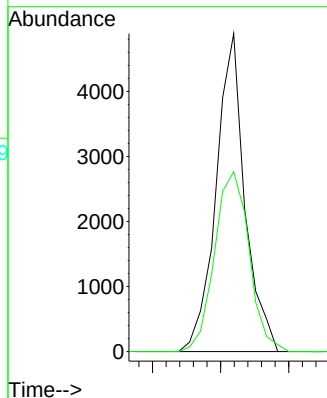
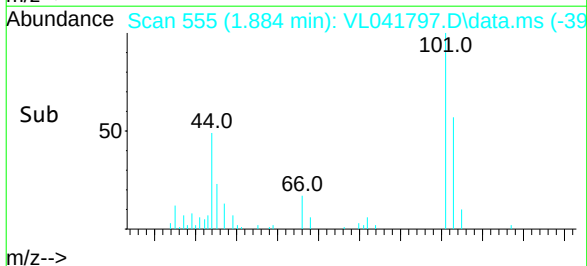
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

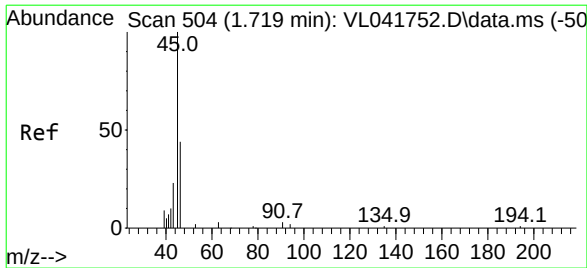


#11
 Trichlorofluoromethane
 Concen: 0.213 ppbv
 RT: 1.884 min Scan# 555
 Delta R.T. 0.009 min
 Lab File: VL041797.D
 Acq: 18 Dec 2024 17:10



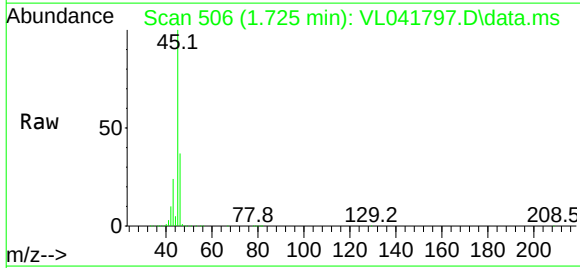
Tgt Ion:101 Resp: 2866
 Ion Ratio Lower Upper
 101 100
 103 56.6 51.8 77.8





#13
Ethanol
Concen: 493.023 ppbv
RT: 1.725 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

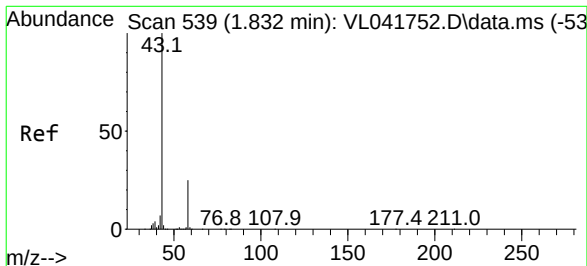
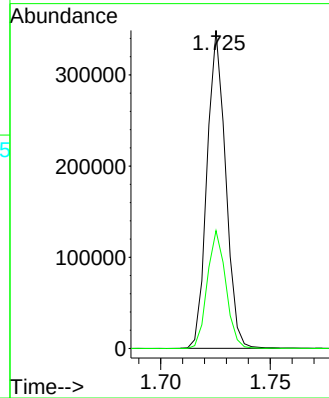
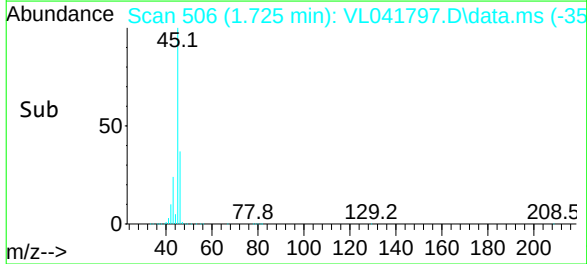
Instrument :
MSVOA_L
ClientSampleId :
C0AB9



Tgt Ion: 45 Resp: 205824
Ion Ratio Lower Upper
45 100
46 37.1 16.4 65.8

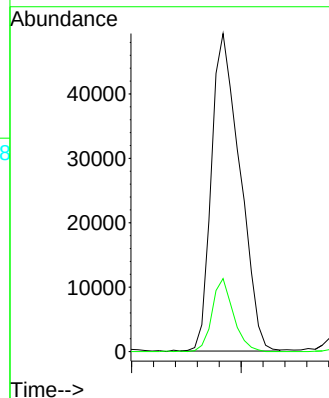
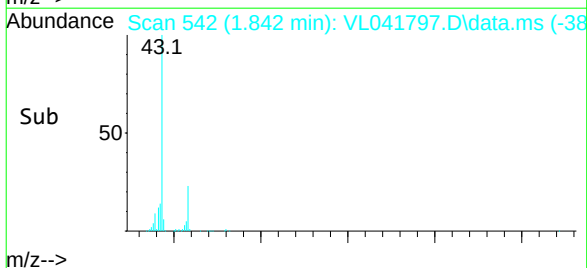
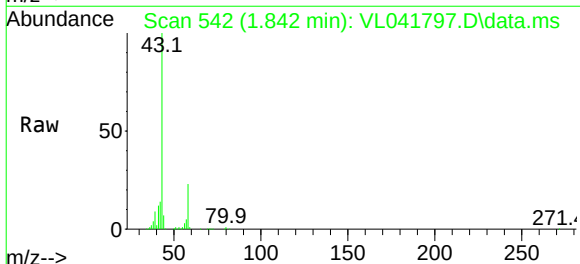
Manual Integrations
APPROVED

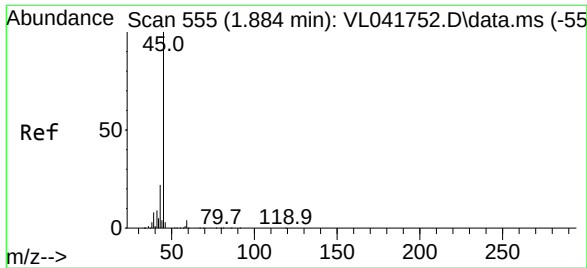
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#15
Acetone
Concen: 3.224 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 43 Resp: 44740
Ion Ratio Lower Upper
43 100
58 17.2 19.7 29.5#





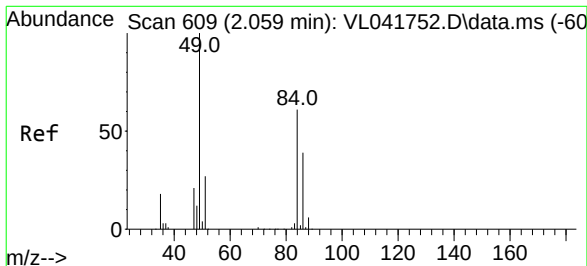
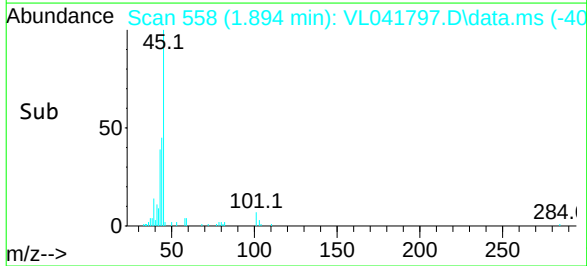
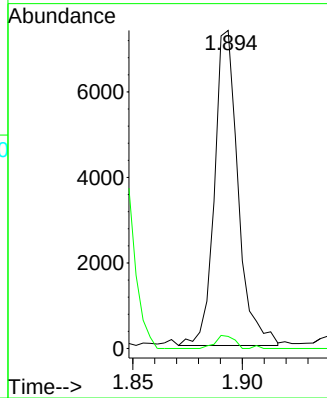
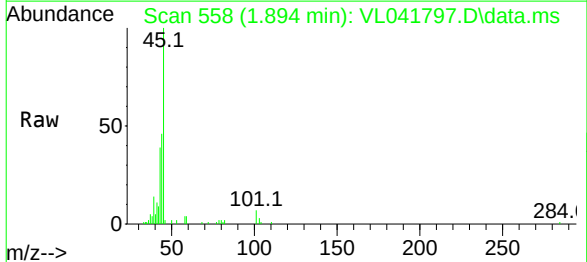
#19
Isopropyl Alcohol
Concen: 0.665 ppbv
RT: 1.894 min Scan# 555
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Instrument :
MSVOA_L
ClientSampleId :
C0AB9

Tgt Ion: 45 Resp: 5535
Ion Ratio Lower Upper
45 100
58 138.8 33.3 49.9#

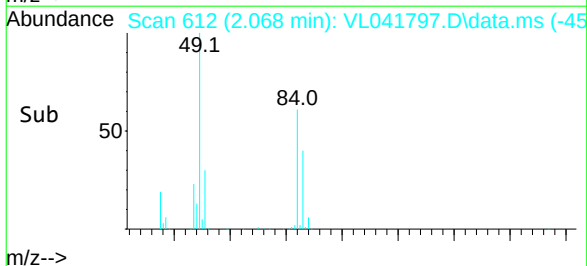
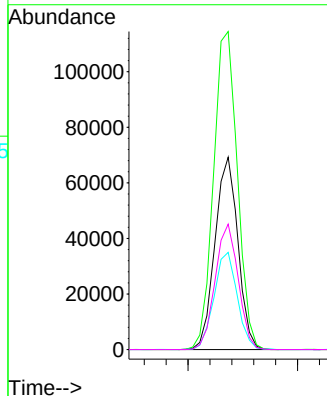
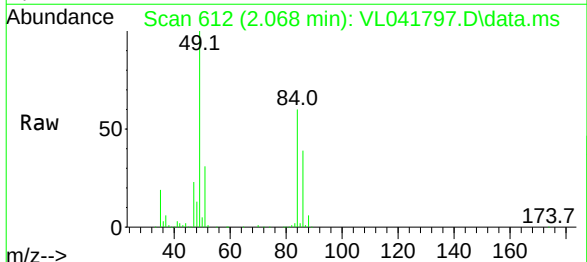
Manual Integrations
APPROVED

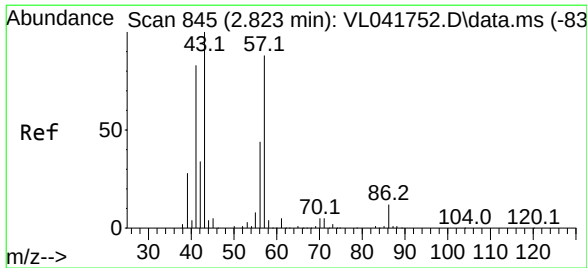
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#20
Methylene Chloride
Concen: 12.744 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

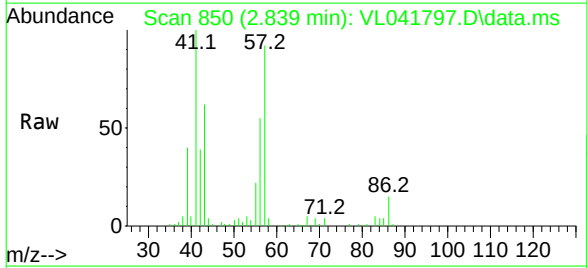
Tgt Ion: 84 Resp: 50434
Ion Ratio Lower Upper
84 100
49 165.3 132.6 198.8
51 50.5 37.6 56.4
86 65.2 51.4 77.0





#26
Hexane
Concen: 2.134 ppbv
RT: 2.839 min Scan# 855
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

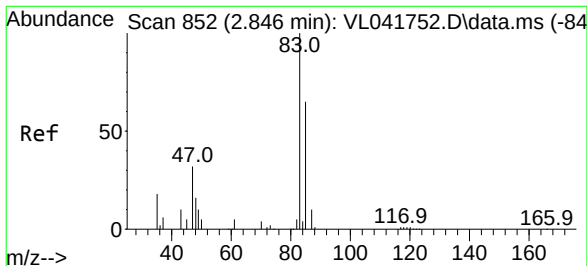
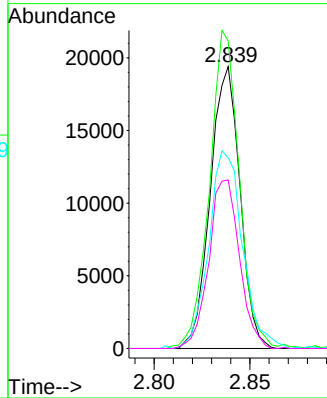
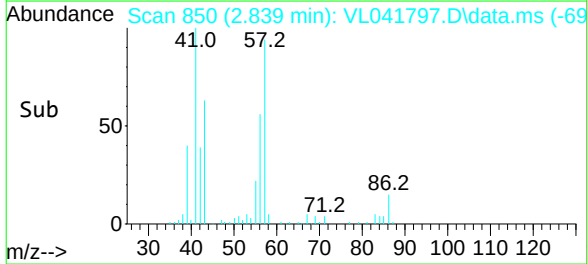
Instrument :
MSVOA_L
ClientSampleId :
C0AB9



Tgt Ion: 57 Resp: 20909
Ion Ratio Lower Upper
57 100
41 113.7 79.6 119.4
43 80.4 211.0 316.6#
56 62.0 42.6 63.8

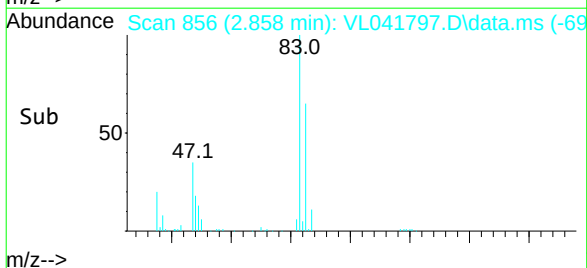
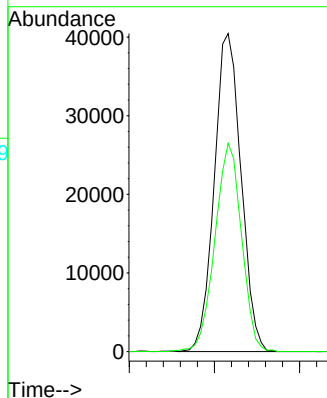
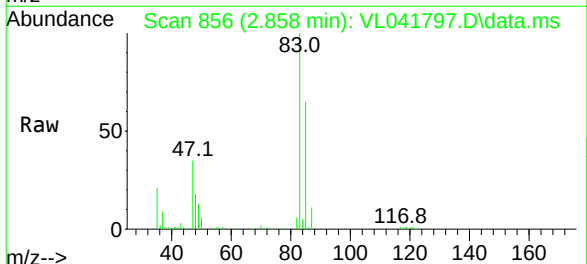
Manual Integrations
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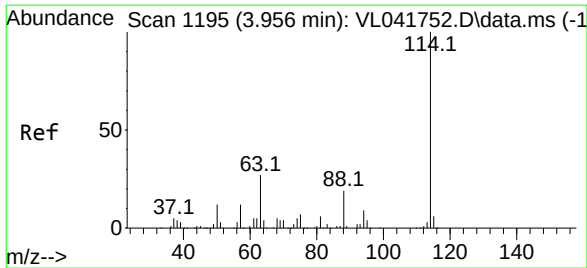
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#29
Chloroform
Concen: 2.956 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

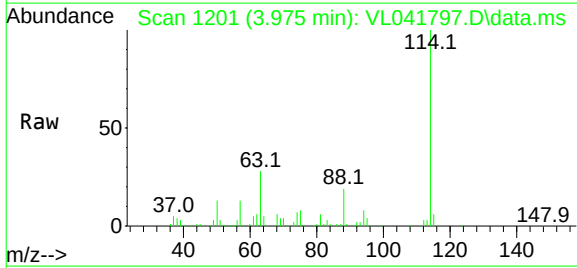
Tgt Ion: 83 Resp: 44135
Ion Ratio Lower Upper
83 100
85 65.5 51.8 77.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 12
Delta R.T. 0.019 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

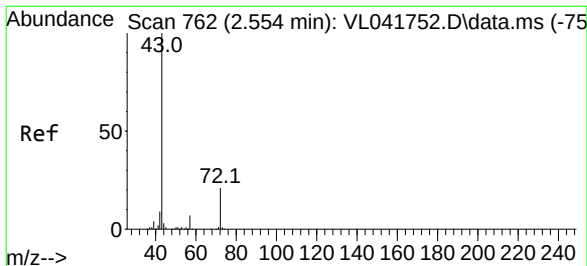
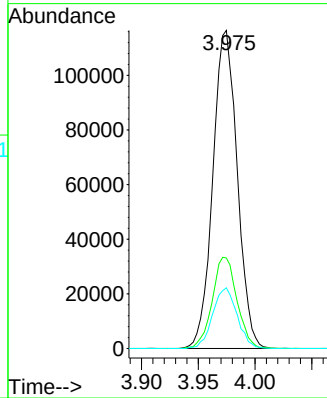
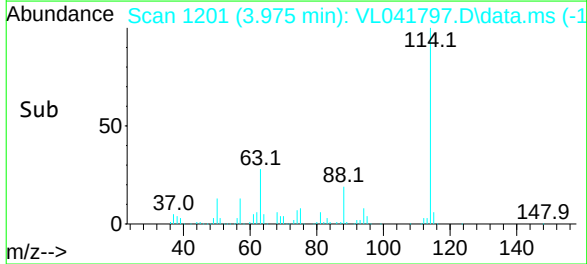
Instrument :
MSVOA_L
ClientSampleId :
C0AB9



Tgt Ion: 114 Resp: 174211
Ion Ratio Lower Upper
114 100
63 29.1 21.8 32.8
88 19.1 14.8 22.2

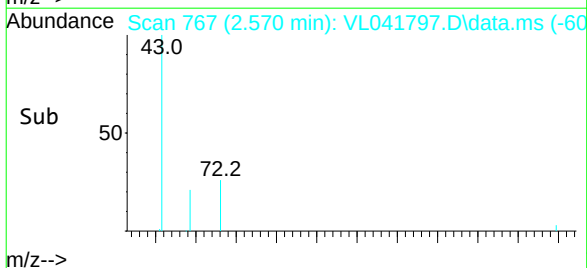
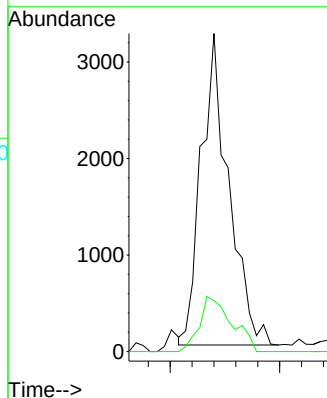
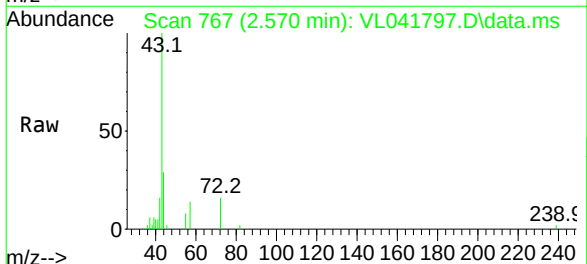
Manual Integrations
APPROVED

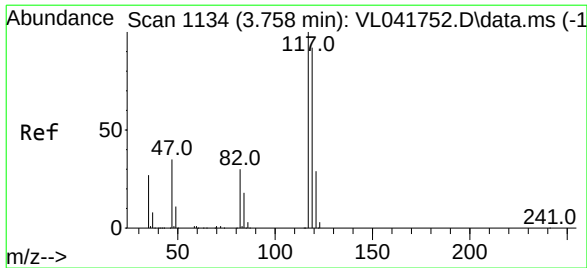
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 0.202 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 43 Resp: 2830
Ion Ratio Lower Upper
43 100
72 20.6 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.061 ppbv m

RT: 3.781 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL041797.D

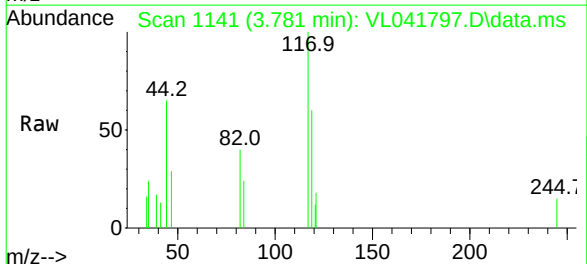
Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

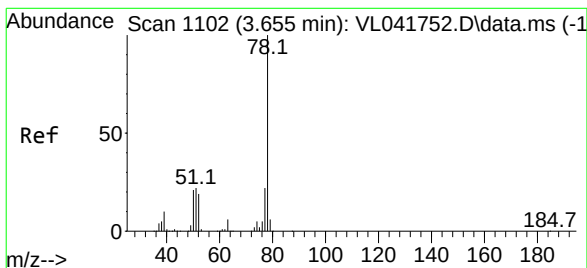
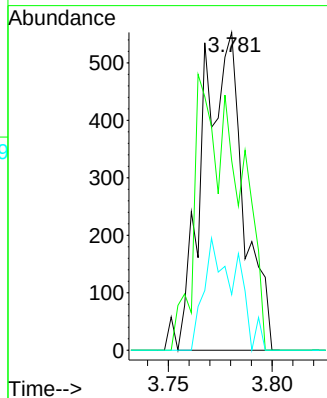
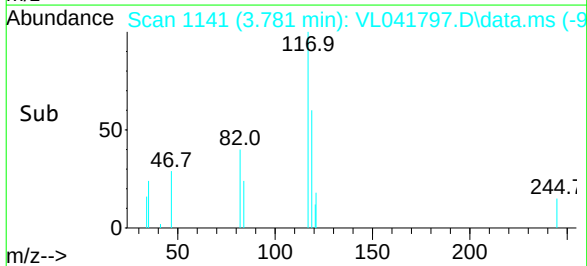


Tgt Ion:	117	Resp:	751
Ion	Ratio	Lower	Upper
117	100		
119	59.7	73.7	110.5#
121	17.5	23.0	34.4#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#36

Benzene

Concen: 0.205 ppbv

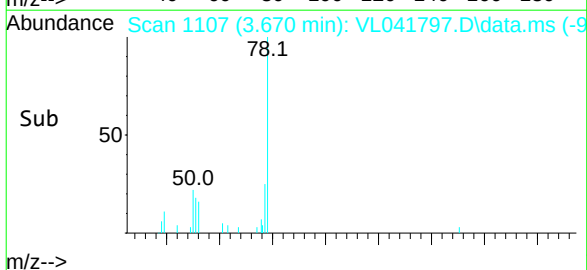
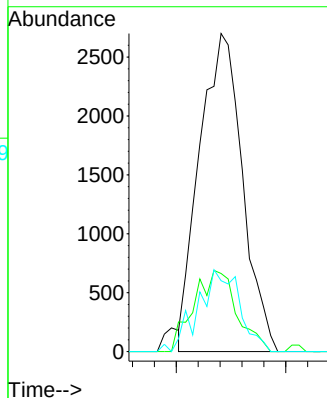
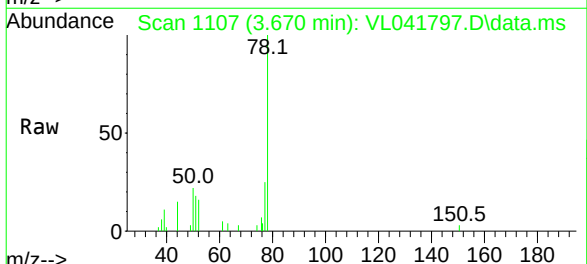
RT: 3.670 min Scan# 1107

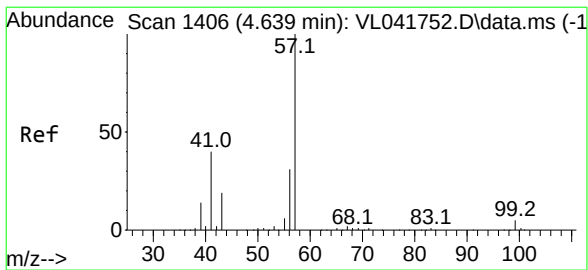
Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

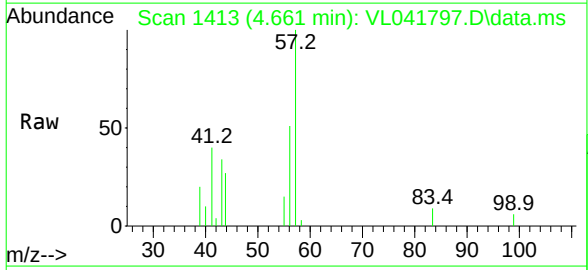
Tgt Ion:	78	Resp:	3686
Ion	Ratio	Lower	Upper
78	100		
77	24.6	17.8	26.6
50	22.3	17.2	25.8





#44
2,2,4-Trimethylpentane
Concen: 0.105 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.022 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

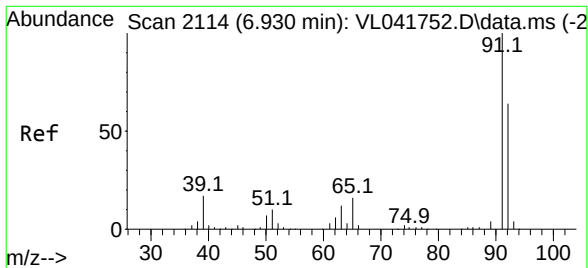
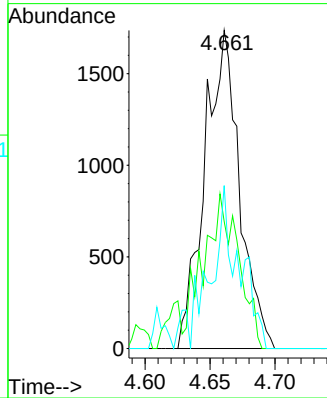
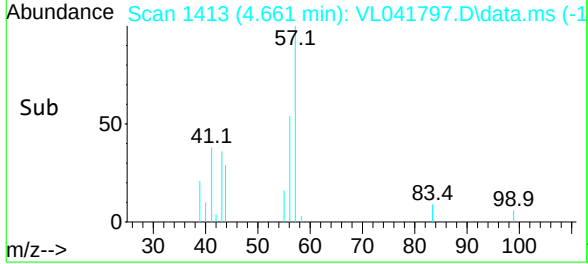
Instrument :
MSVOA_L
ClientSampleId :
C0AB9



Tgt Ion	Ratio	Lower	Upper
57	100		
41	58.0	30.7	46.1
56	47.8	25.4	38.0

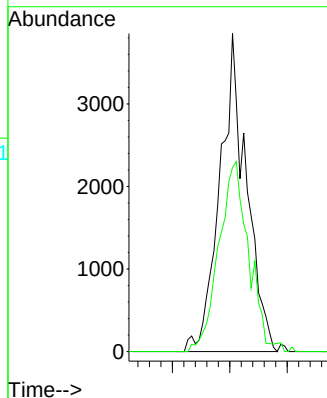
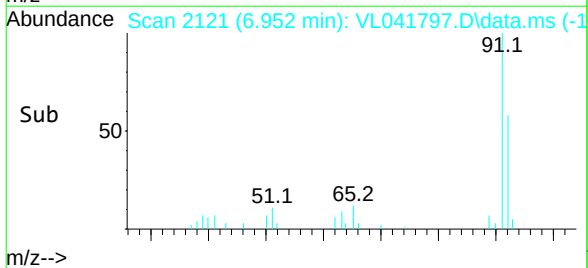
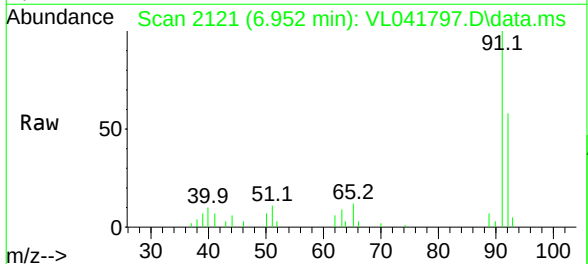
Manual Integrations
APPROVED

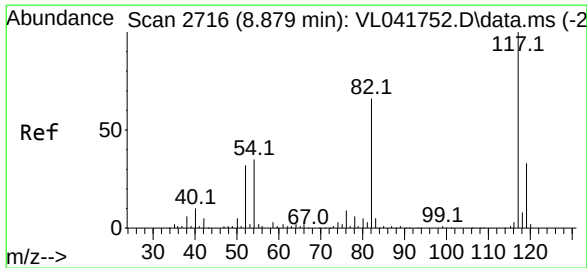
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#53
Toluene
Concen: 0.302 ppbv m
RT: 6.952 min Scan# 2121
Delta R.T. 0.022 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

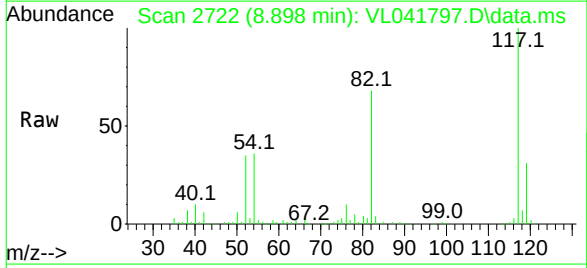
Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.9	71.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2716
Delta R.T. 0.019 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

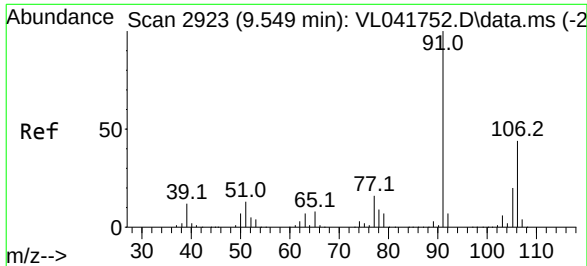
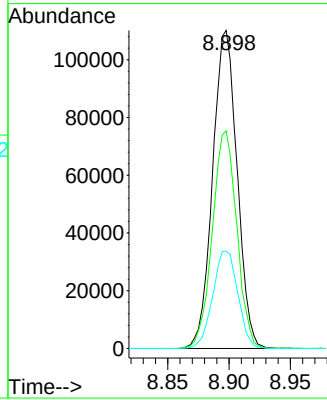
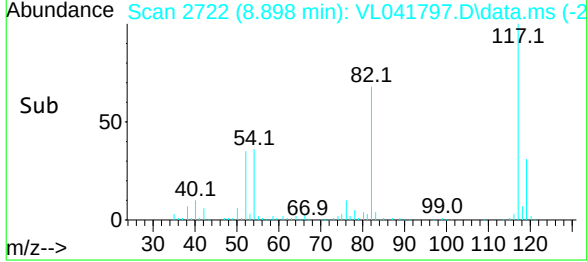
Instrument :
MSVOA_L
ClientSampleId :
C0AB9



Tgt Ion:117 Resp: 152989
Ion Ratio Lower Upper
117 100
82 68.3 53.8 80.8
119 31.4 26.7 40.1

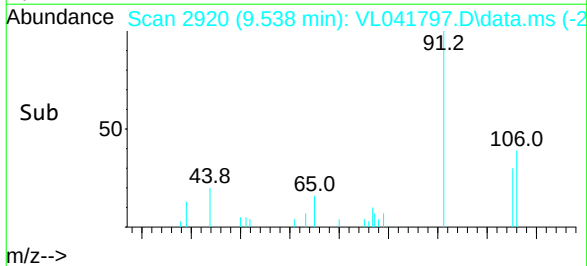
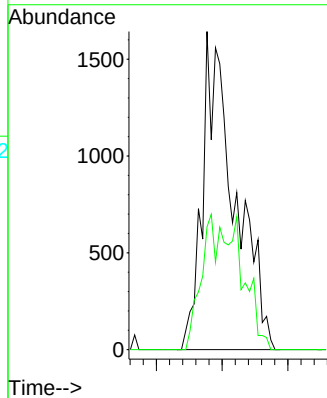
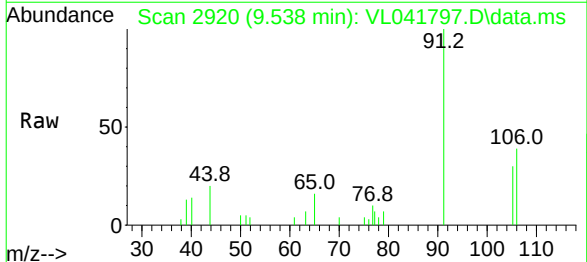
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

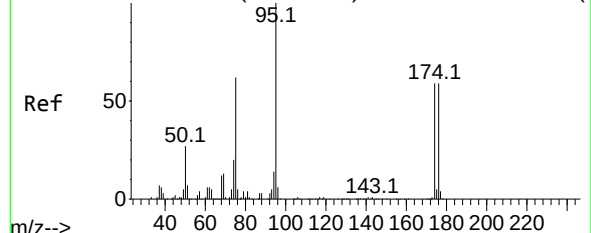


#59
m/p-Xylene
Concen: 0.127 ppbv m
RT: 9.538 min Scan# 2920
Delta R.T. -0.010 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 91 Resp: 2804
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



Abundance Scan 3178 (10.374 min): VL041752.D\data.ms (-



#68

1-Bromo-4-Fluorobenzene

Concen: 10.215 ppbv

RT: 10.390 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

Tgt Ion: 95 Resp: 130229

Ion Ratio Lower Upper

95 100

174 57.1 47.6 71.4

175 4.7 3.7 5.5

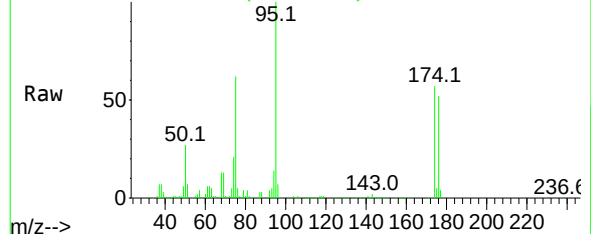
Manual Integrations

APPROVED

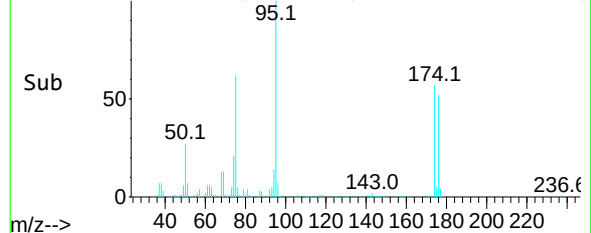
Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024

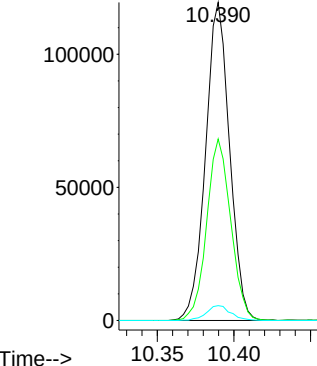
Abundance Scan 3183 (10.390 min): VL041797.D\data.ms (-



Abundance Scan 3183 (10.390 min): VL041797.D\data.ms (-



Abundance



Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC0	SDG No.:	P5293
Lab Sample ID:	P5293-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041799.D	1		12/18/24 18:17	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.39	1.93	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.46	0.95	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.12	0.49	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.20	12.3		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.72	2.50		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	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	0.42	1.24	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.37	1.81	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.24	0.77	J	0.29	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
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.59	2.22		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC0	SDG No.:	P5293
Lab Sample ID:	P5293-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041799.D	1		12/18/24 18:17	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	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	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	71500		2.797			
540-36-3	1,4-Difluorobenzene	175000		3.975			
3114-55-4	Chlorobenzene-d5	153000		8.898			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC0	SDG No.:	P5293
Lab Sample ID:	P5293-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041799.D	1		12/18/24 18:17	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL121824\
 Data File : VL041799.D
 Acq On : 18 Dec 2024 18:17
 Operator : SY/MD
 Sample : P5293-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:57:10 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	71492	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	174715	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	153485	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 133546 10.441 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	4954	0.389	ppbv	98
3) Chlorodifluoromethane	1.479	51	2696m	0.231	ppbv	
4) Chloromethane	1.538	50	2275	0.457	ppbv	93
9) Propene	1.492	41	46494	9.201	ppbv #	64
10) Heptane	5.004	43	1599m	0.123	ppbv	
11) Trichlorofluoromethane	1.884	101	2734	0.202	ppbv	99
13) Ethanol	1.725	45	20973	50.123	ppbv	96
15) Acetone	1.842	43	72299	5.198	ppbv	92
19) Isopropyl Alcohol	1.894	45	10160	1.217	ppbv #	1
20) Methylene Chloride	2.068	84	2867	0.723	ppbv	90
25) Ethyl Acetate	2.842	43	4266m	0.165	ppbv	
29) Chloroform	2.861	83	5485	0.367	ppbv	100
34) 2-Butanone	2.570	43	5913	0.421	ppbv	98
35) Carbon Tetrachloride	3.793	117	863m	0.070	ppbv	
36) Benzene	3.670	78	4287	0.237	ppbv #	87
53) Toluene	6.952	91	12028	0.587	ppbv	99
59) m/p-Xylene	9.545	91	4510m	0.203	ppbv	

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

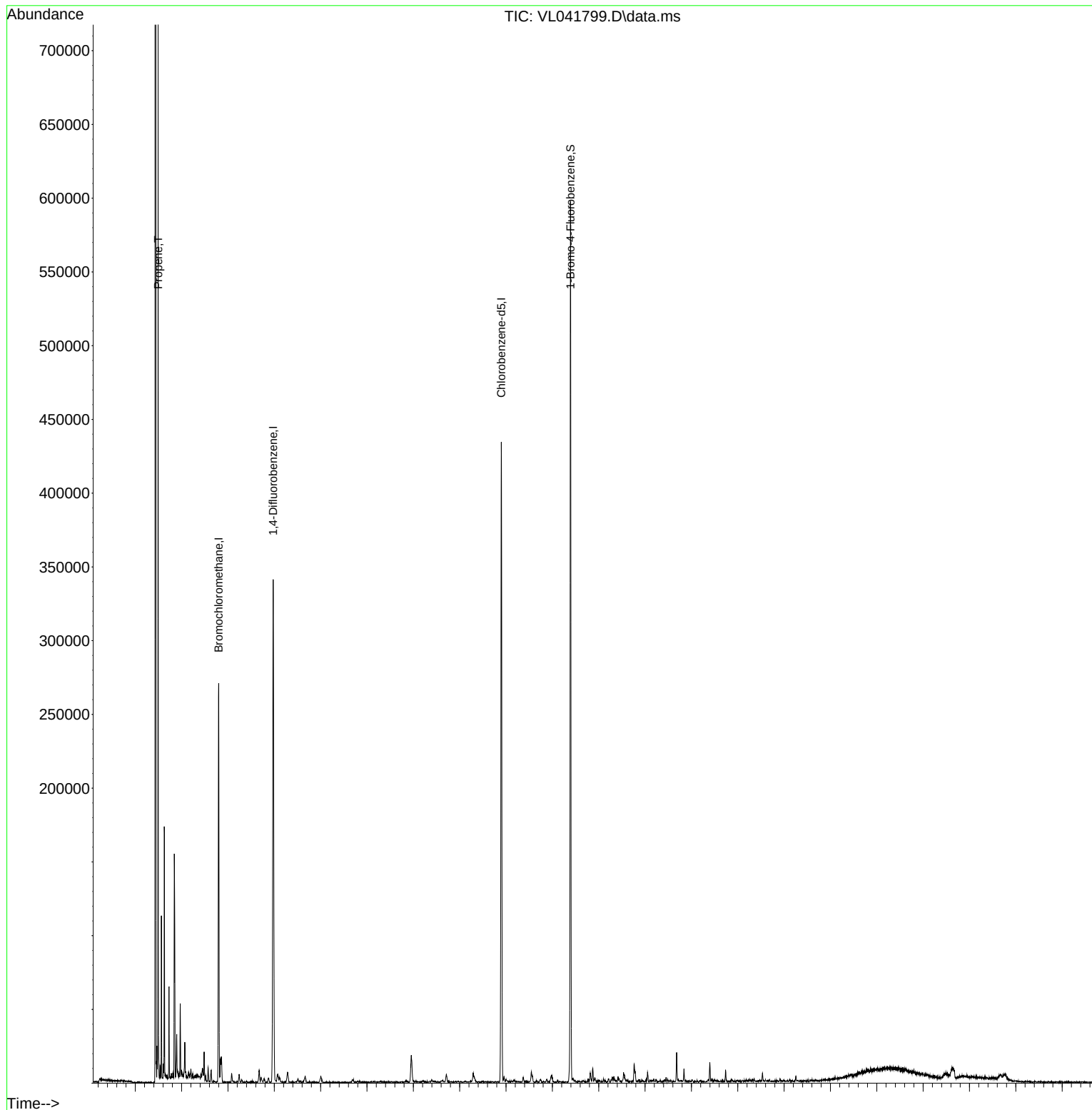
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Data File : VL041799.D
Acq On : 18 Dec 2024 18:17
Operator : SY/MD
Sample : P5293-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

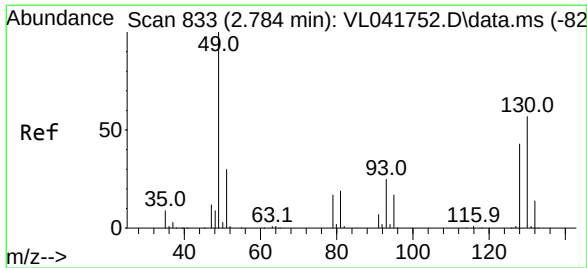
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

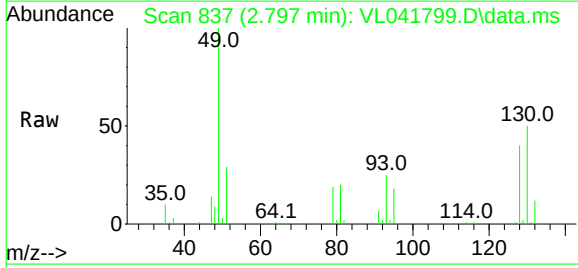
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

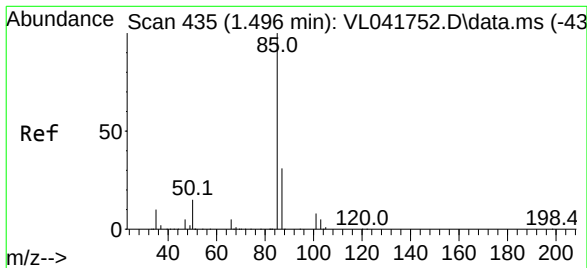
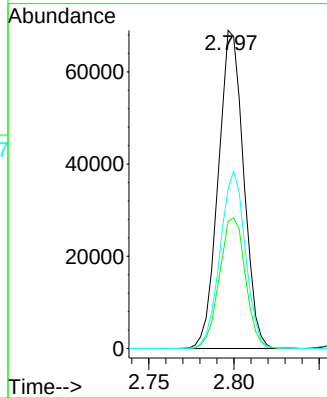
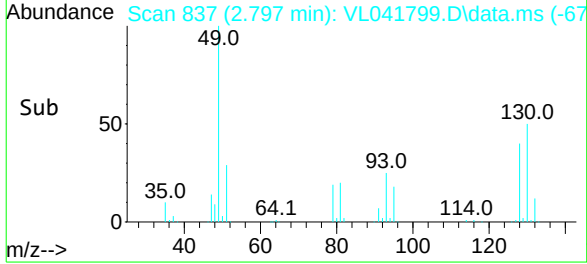
Instrument :
MSVOA_L
ClientSampleId :
C0AC0



Tgt Ion: 49 Resp: 71492
Ion Ratio Lower Upper
49 100
128 42.1 21.6 64.6
130 55.4 28.3 85.0

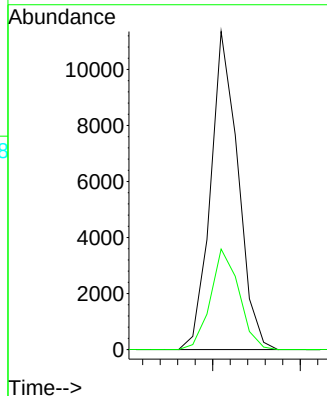
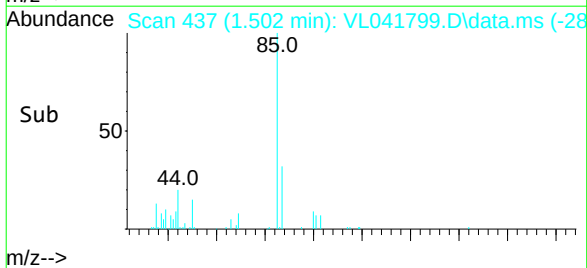
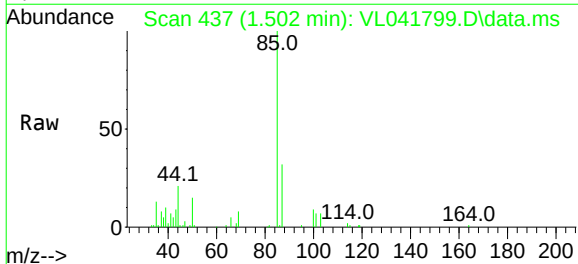
Manual Integrations
APPROVED

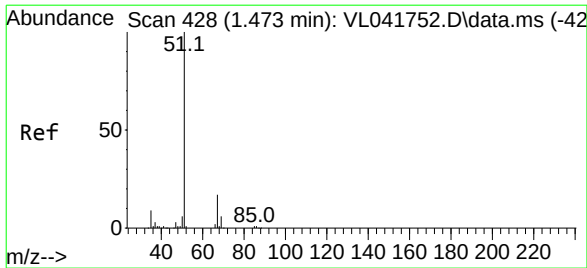
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 0.389 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 85 Resp: 4954
Ion Ratio Lower Upper
85 100
87 31.6 24.5 36.7





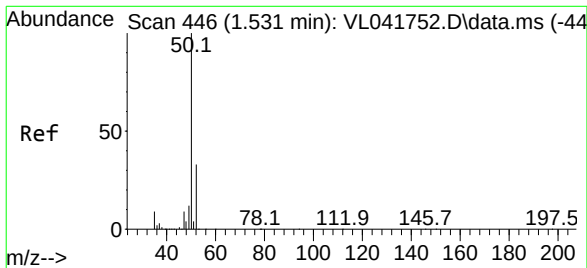
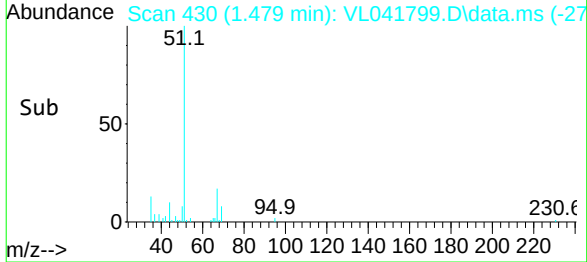
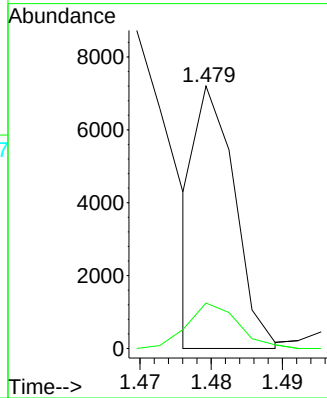
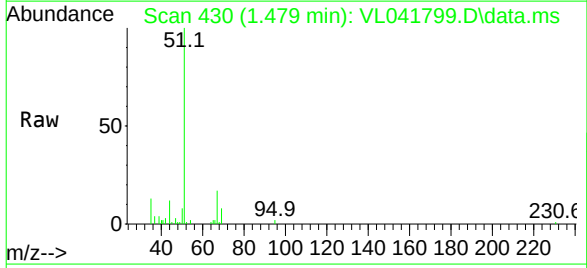
#3
Chlorodifluoromethane
Concen: 0.231 ppbv
RT: 1.479 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Instrument :
MSVOA_L
ClientSampleId :
C0AC0

Tgt Ion: 51 Resp: 2696
Ion Ratio Lower Upper
51 100
67 23.1 15.0 22.4#

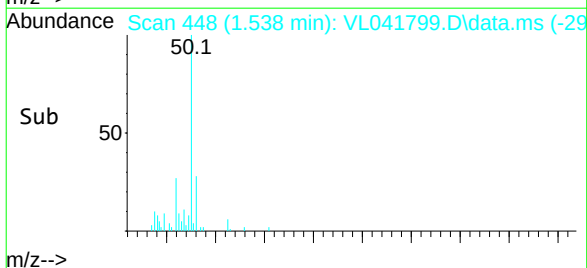
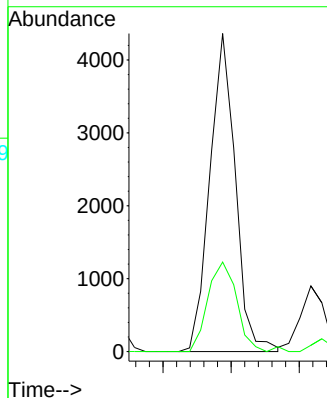
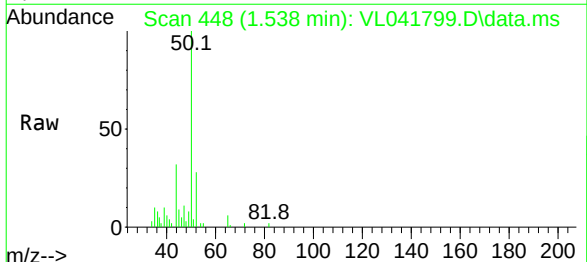
Manual Integrations
APPROVED

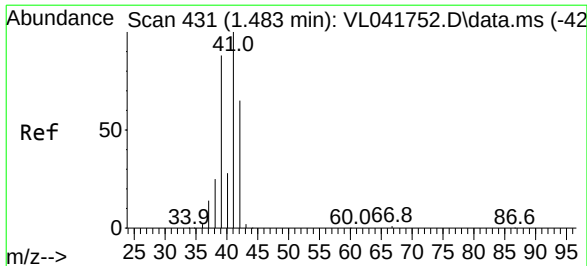
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#4
Chloromethane
Concen: 0.457 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

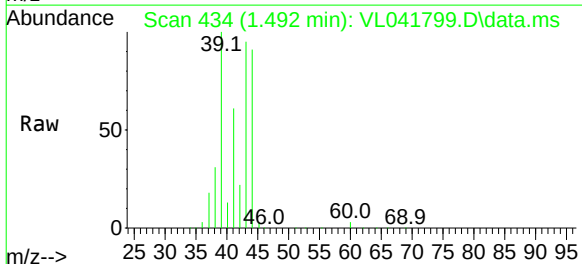
Tgt Ion: 50 Resp: 2275
Ion Ratio Lower Upper
50 100
52 28.5 26.2 39.2





#9
 Propene
 Concen: 9.201 ppbv
 RT: 1.492 min Scan# 431
 Delta R.T. 0.009 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

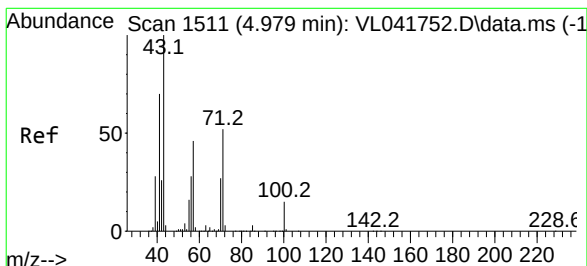
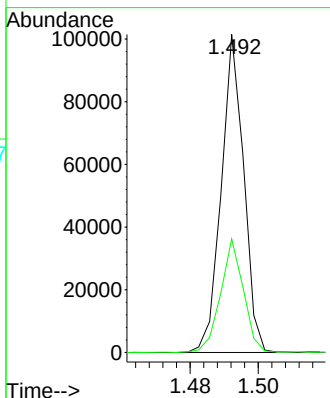
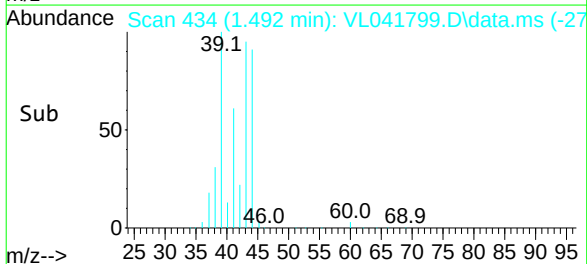
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC0



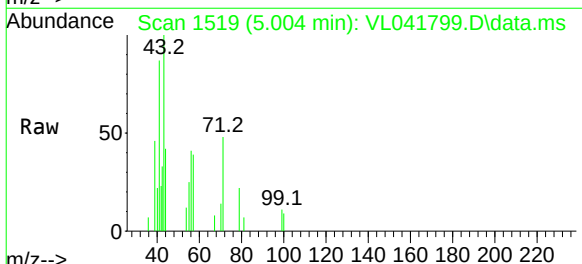
Tgt Ion: 41 Resp: 46494
 Ion Ratio Lower Upper
 41 100
 42 36.9 52.4 78.6#

Manual Integrations
 APPROVED

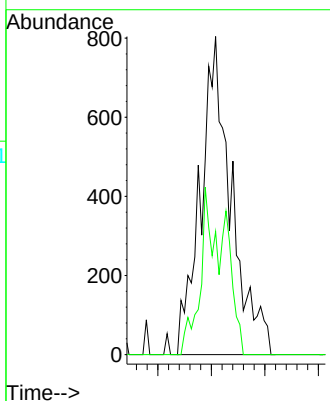
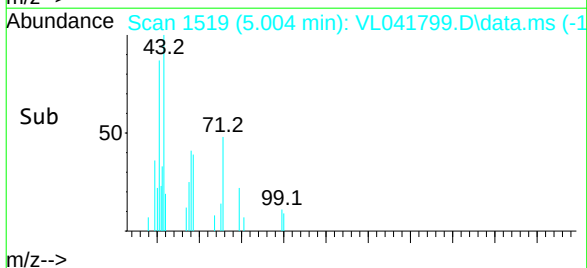
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

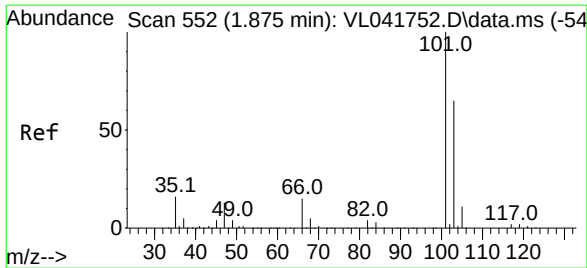


#10
 Heptane
 Concen: 0.123 ppbv m
 RT: 5.004 min Scan# 1519
 Delta R.T. 0.025 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17



Tgt Ion: 43 Resp: 1599
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.5 57.7#





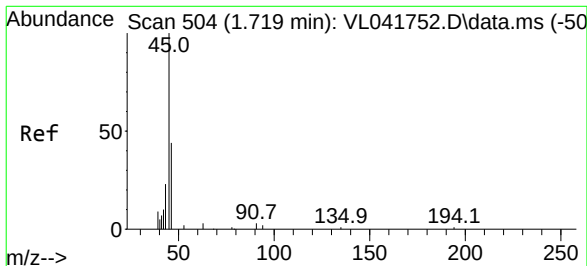
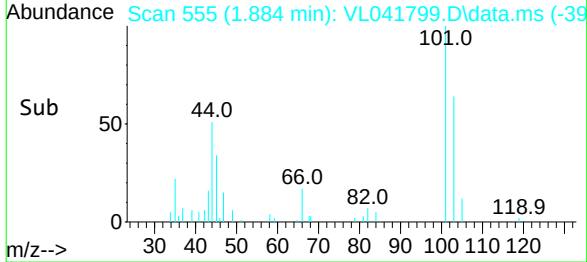
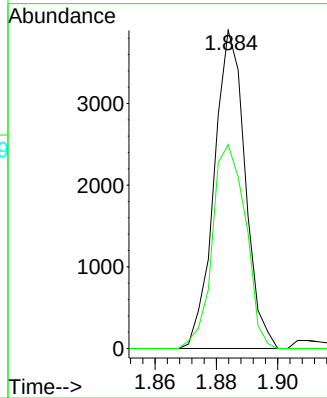
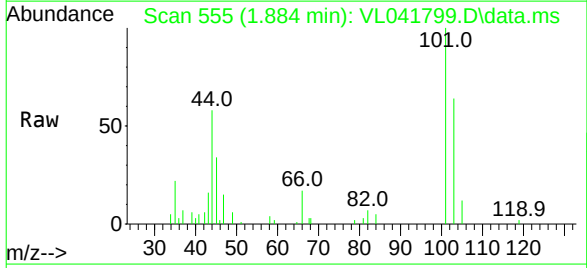
#11
Trichlorofluoromethane
Concen: 0.202 ppbv
RT: 1.884 min Scan# 552
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Instrument :
MSVOA_L
ClientSampleId :
C0AC0

Tgt Ion:101 Resp: 2734
Ion Ratio Lower Upper
101 100
103 64.1 51.8 77.8

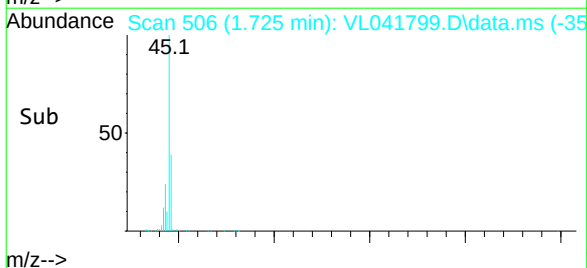
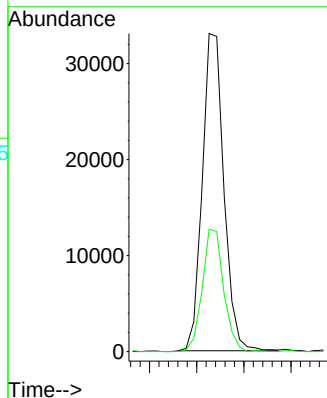
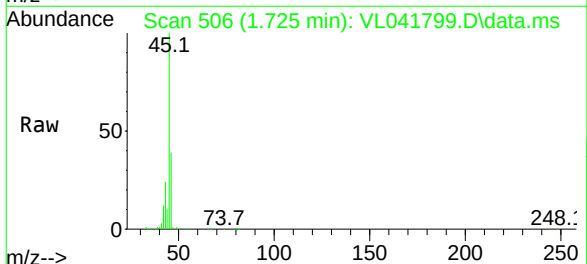
Manual Integrations
APPROVED

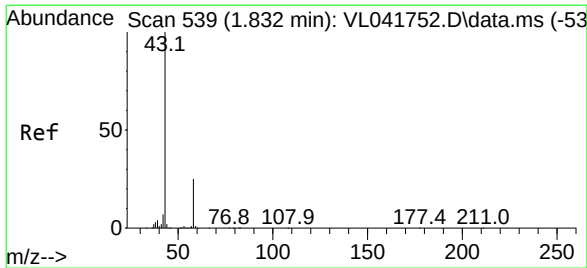
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#13
Ethanol
Concen: 50.123 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

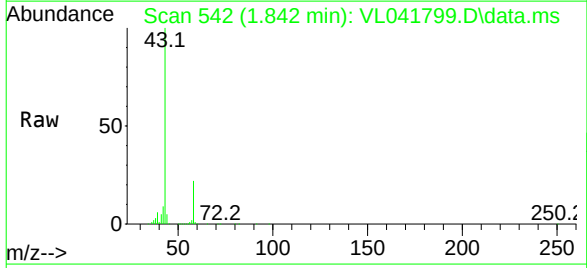
Tgt Ion: 45 Resp: 20973
Ion Ratio Lower Upper
45 100
46 38.6 16.4 65.8





#15
Acetone
Concen: 5.198 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

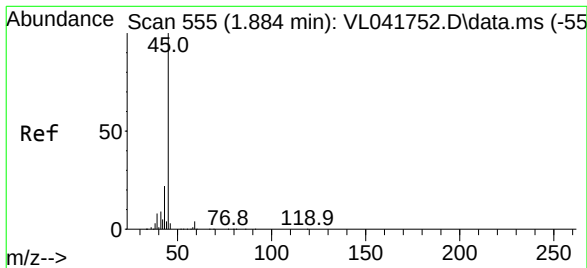
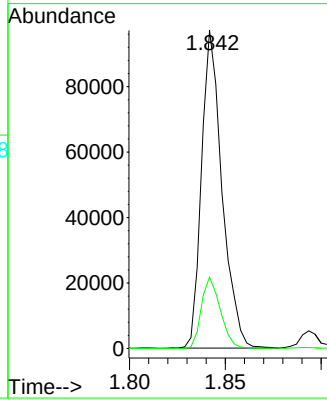
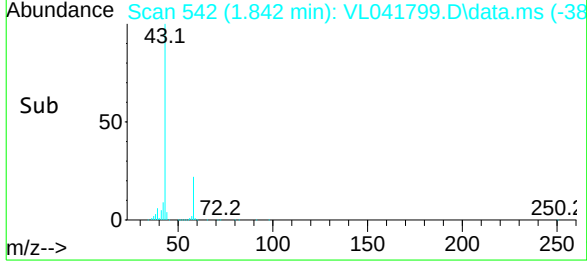
Instrument :
MSVOA_L
ClientSampleId :
C0AC0



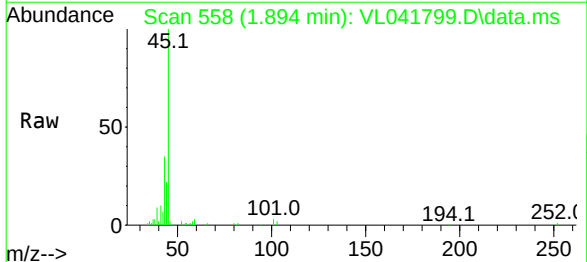
Tgt Ion: 43 Resp: 72299
Ion Ratio Lower Upper
43 100
58 20.8 19.7 29.5

Manual Integrations
APPROVED

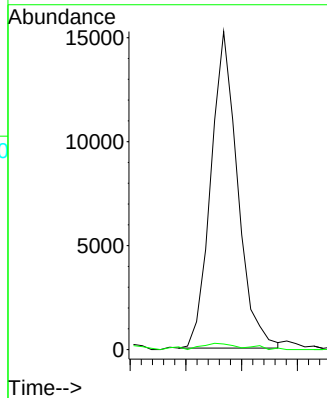
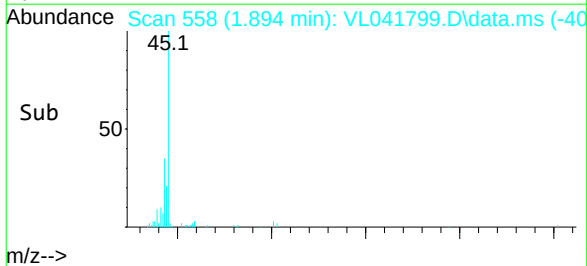
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

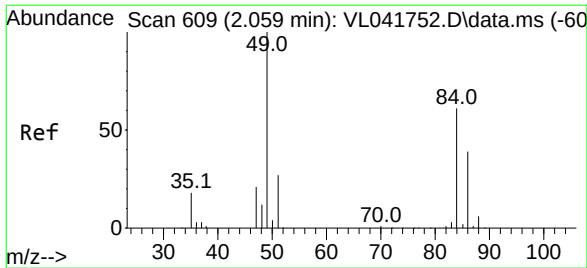


#19
Isopropyl Alcohol
Concen: 1.217 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17



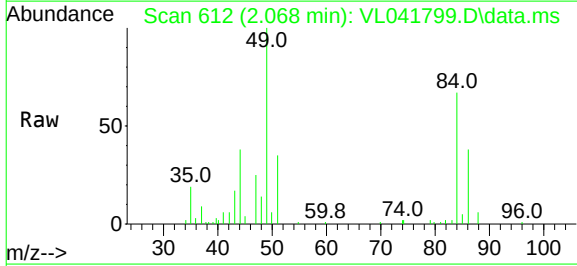
Tgt Ion: 45 Resp: 10160
Ion Ratio Lower Upper
45 100
58 147.9 33.3 49.9#





#20
Methylene Chloride
Concen: 0.723 ppbv
RT: 2.068 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

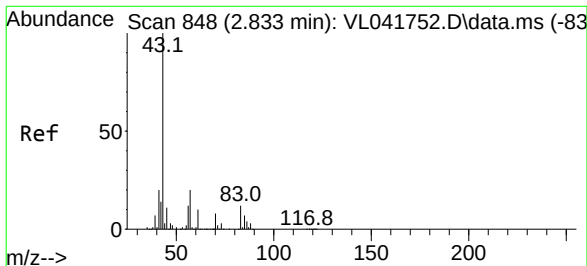
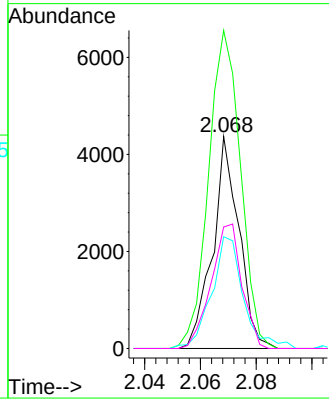
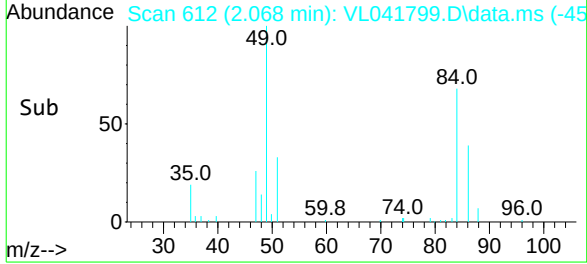
Instrument :
MSVOA_L
ClientSampleId :
C0AC0



Tgt Ion:	84	Resp:	2867
Ion	Ratio	Lower	Upper
84	100		
49	150.1	132.6	198.8
51	51.2	37.6	56.4
86	57.3	51.4	77.0

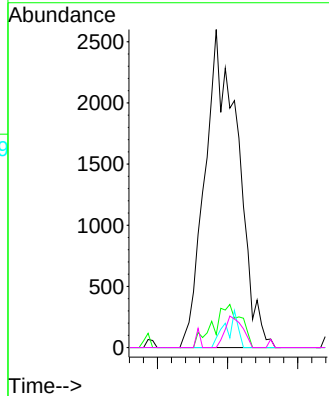
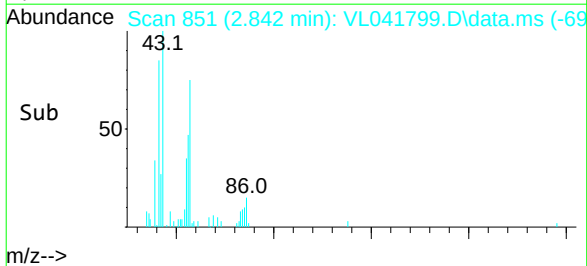
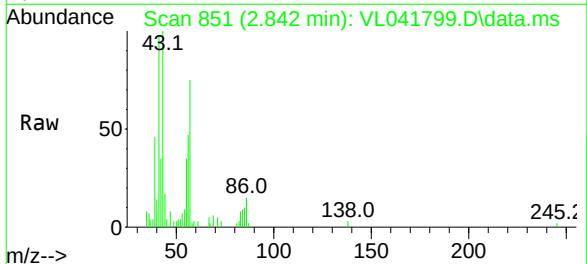
Manual Integrations
APPROVED

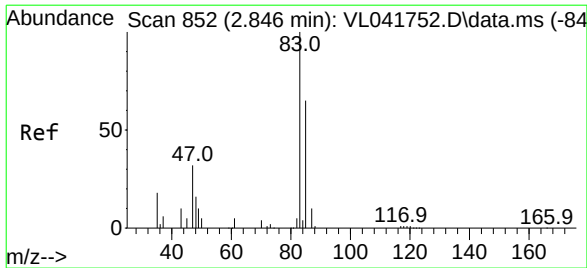
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#25
Ethyl Acetate
Concen: 0.165 ppbv m
RT: 2.842 min Scan# 851
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion:	43	Resp:	4266
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.0	10.6#
70	0.0	6.5	9.7#





#29

Chloroform

Concen: 0.367 ppbv

RT: 2.861 min Scan# 85

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

Tgt Ion: 83 Resp: 5485

Ion Ratio Lower Upper

83 100

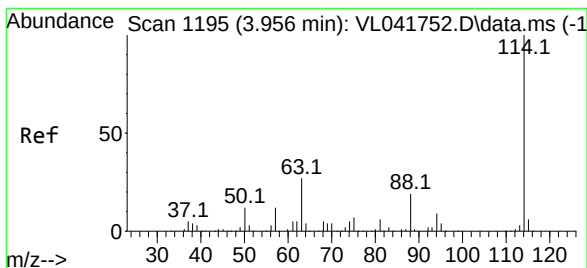
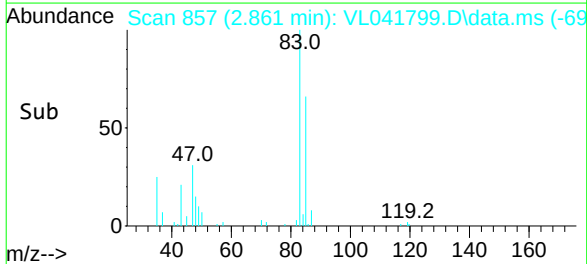
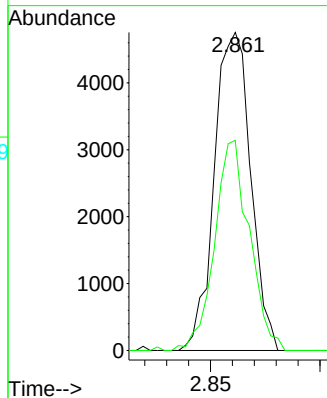
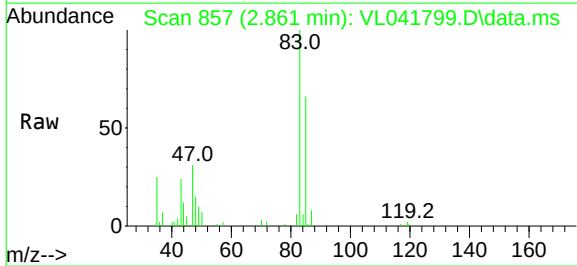
85 64.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

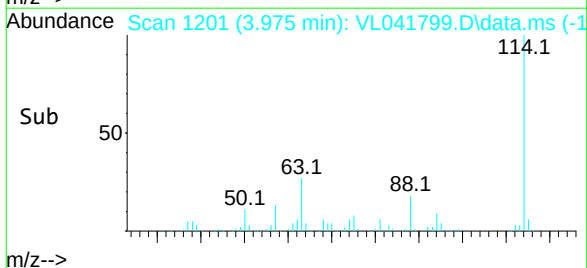
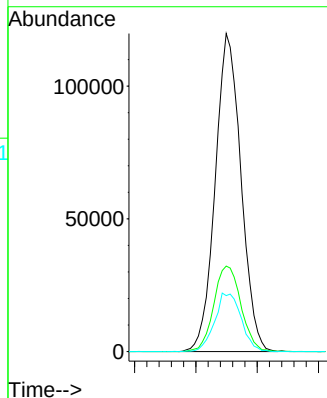
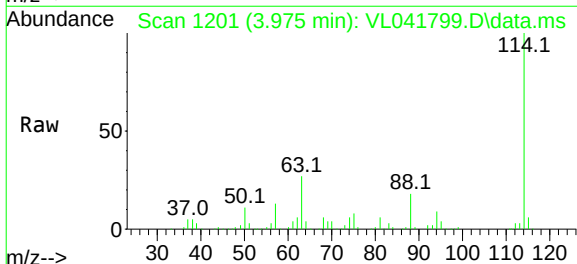
Tgt Ion:114 Resp: 174715

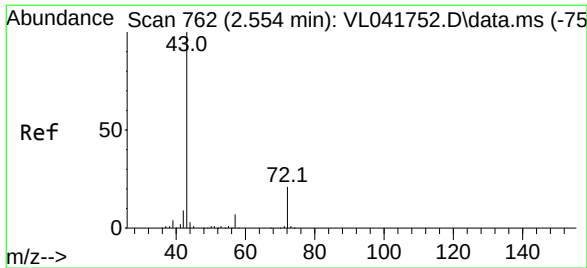
Ion Ratio Lower Upper

114 100

63 28.4 21.8 32.8

88 18.9 14.8 22.2





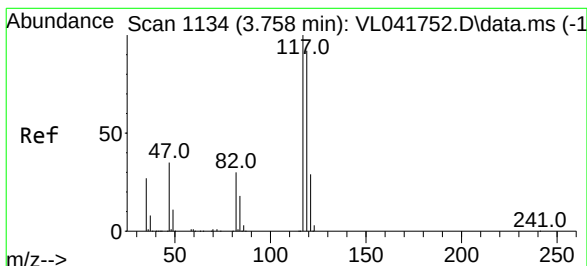
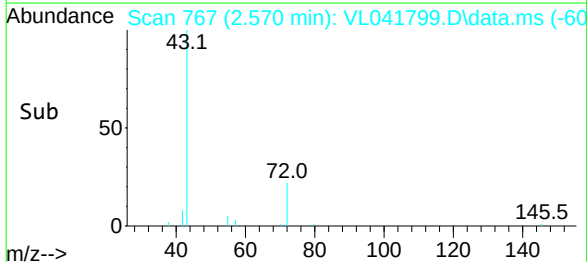
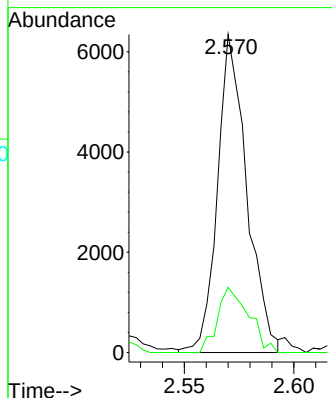
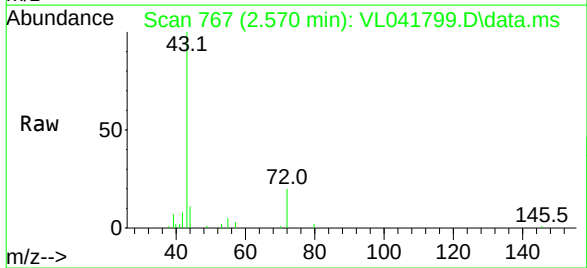
#34
2-Butanone
Concen: 0.421 ppbv
RT: 2.570 min Scan# 76
Delta R.T. 0.016 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Instrument :
MSVOA_L
ClientSampleId :
C0AC0

Tgt Ion: 43 Resp: 5913
Ion Ratio Lower Upper
43 100
72 21.8 16.8 25.2

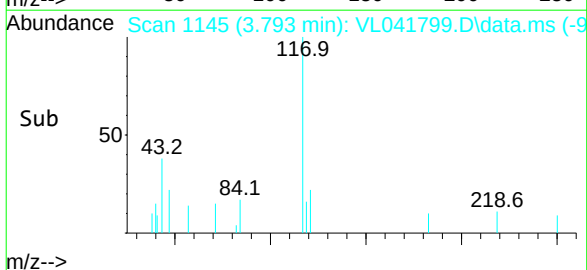
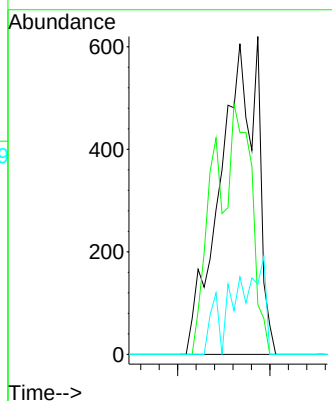
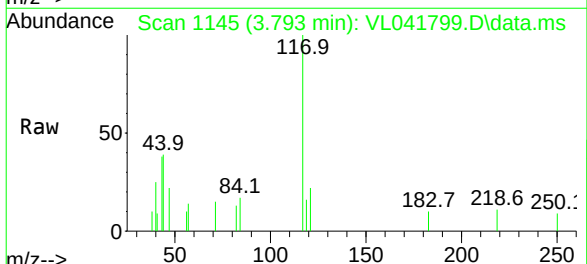
Manual Integrations
APPROVED

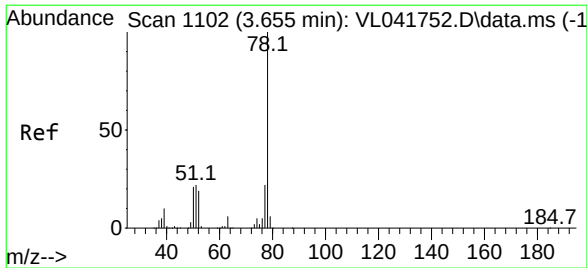
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.793 min Scan# 1145
Delta R.T. 0.035 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion:117 Resp: 863
Ion Ratio Lower Upper
117 100
119 15.6 73.7 110.5#
121 22.1 23.0 34.4#





#36

Benzene

Concen: 0.237 ppbv

RT: 3.670 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

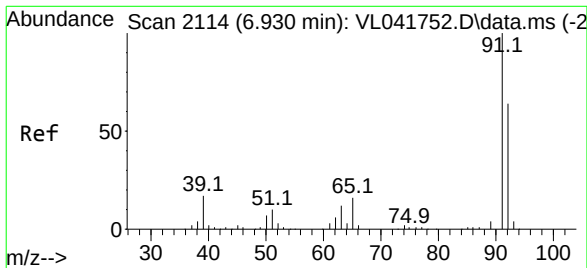
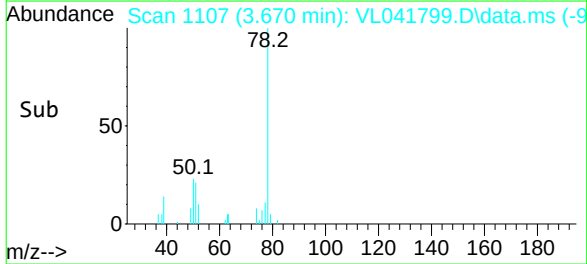
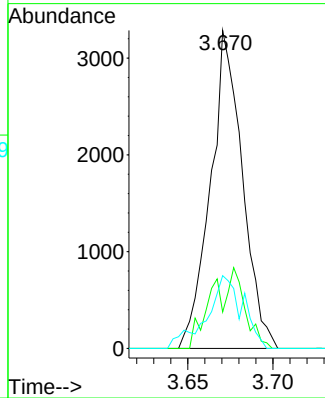
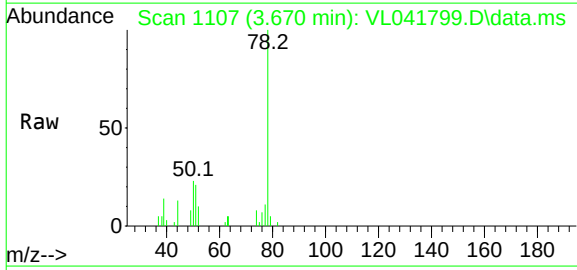
C0AC0

Tgt Ion: 78	Resp: 4287
Ion Ratio	Lower Upper
78 100	
77 11.4	17.8 26.6
50 22.9	17.2 25.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#53

Toluene

Concen: 0.587 ppbv

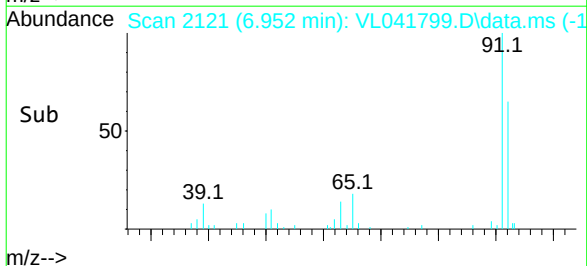
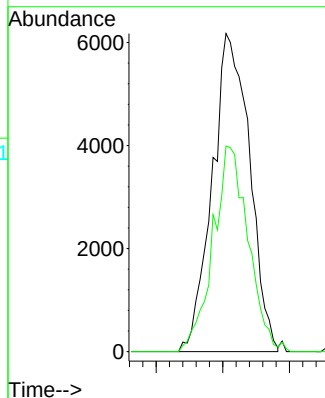
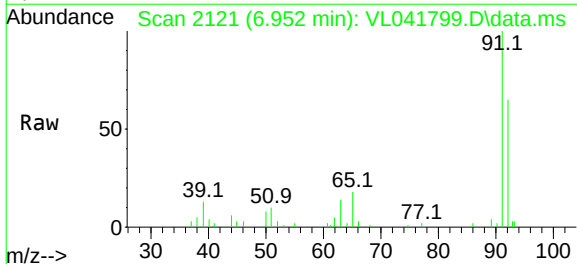
RT: 6.952 min Scan# 2121

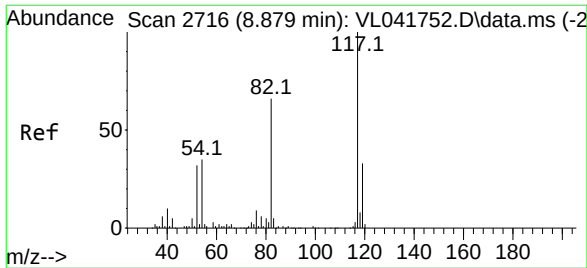
Delta R.T. 0.022 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

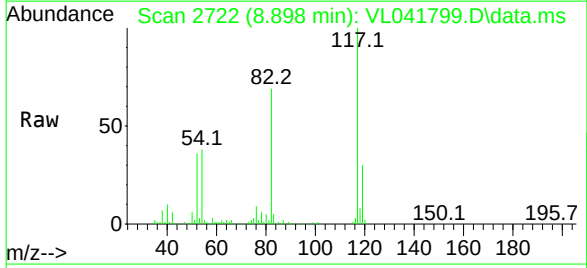
Tgt Ion: 91	Resp: 12028
Ion Ratio	Lower Upper
91 100	
92 61.0	47.9 71.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2716
Delta R.T. 0.019 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

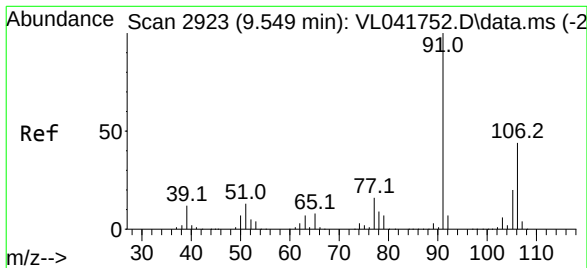
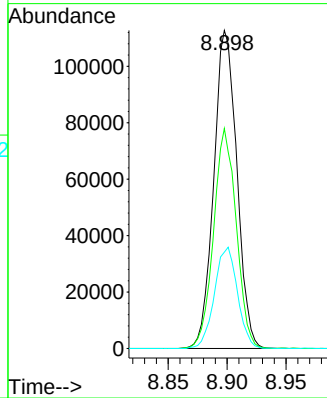
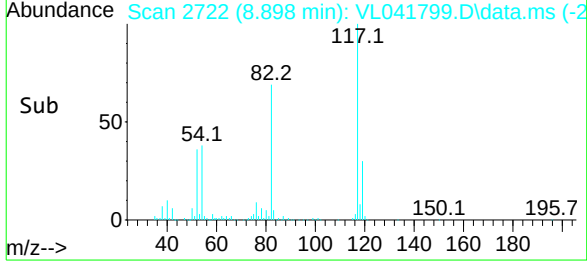
Instrument :
MSVOA_L
ClientSampleId :
C0AC0



Tgt Ion: 117 Resp: 153485
Ion Ratio Lower Upper
117 100
82 68.0 53.8 80.8
119 31.9 26.7 40.1

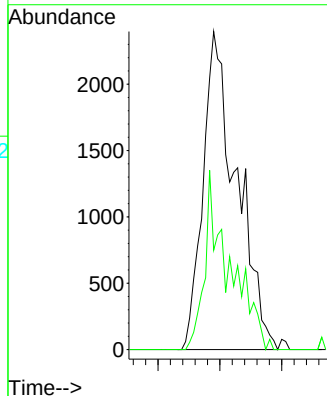
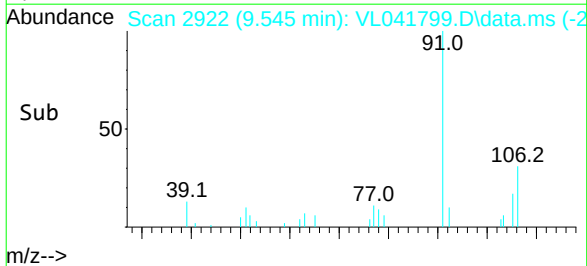
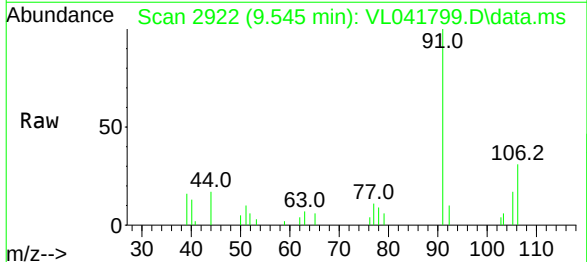
Manual Integrations
APPROVED

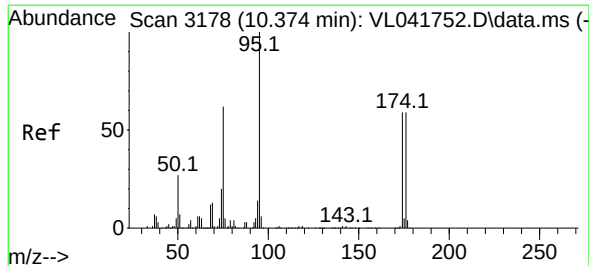
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#59
m/p-Xylene
Concen: 0.203 ppbv m
RT: 9.545 min Scan# 2922
Delta R.T. -0.004 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

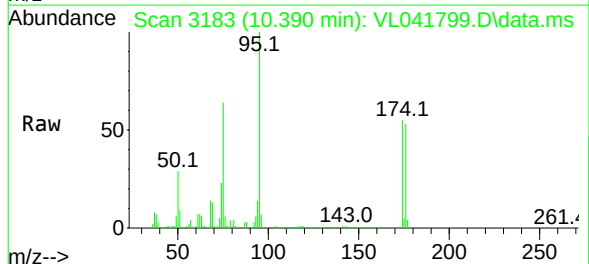
Tgt Ion: 91 Resp: 4510
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.441 ppbv
RT: 10.390 min Scan# 3178
Delta R.T. 0.016 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

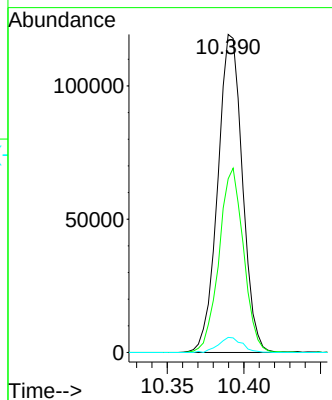
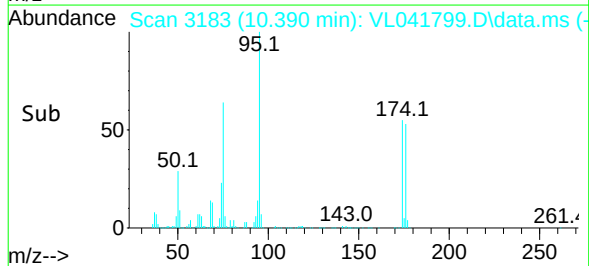
Instrument :
MSVOA_L
ClientSampleId :
C0AC0



Tgt	Ion	95	Resp	133546
Ion	Ratio	Lower	Upper	
95	100			
174	57.6	47.6	71.4	
175	4.6	3.7	5.5	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC1	SDG No.:	P5293
Lab Sample ID:	P5293-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041800.D	1		12/18/24 18:50	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.38	1.88	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	1.90	3.92		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.19	1.07	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	1.10	3.33		0.58	1.52	ug/m3
142-82-5	Heptane	0.36	1.48	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	21.5	51.1	E	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.70	5.91		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	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	4.80	14.2		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	1.50	7.33		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.80	2.56		0.29	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
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.28	1.88	J	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.29	1.19	J	0.37	2.05	ug/m3
108-88-3	Toluene	1.30	4.90		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC1	SDG No.:	P5293
Lab Sample ID:	P5293-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041800.D	1		12/18/24 18:50	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	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	0.35	1.52	J	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.60	6.95		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.63	2.74		0.52	2.17	ug/m3
100-42-5	Styrene	0.44	1.87	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.67	3.29		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	2.90	14.3		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.22	1.15		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.53	2.61		0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.9			65 - 135	109%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	75500		2.797			
540-36-3	1,4-Difluorobenzene	187000		3.971			
3114-55-4	Chlorobenzene-d5	166000		8.894			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC1	SDG No.:	P5293
Lab Sample ID:	P5293-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041800.D	1		12/18/24 18:50	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL121824\
 Data File : VL041800.D
 Acq On : 18 Dec 2024 18:50
 Operator : SY/MD
 Sample : P5293-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:57:35 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	75472	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.971	114	186655	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	166096	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	150452	10.870	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	5105	0.380	ppbv	91
3) Chlorodifluoromethane	1.479	51	3096m	0.252	ppbv	
4) Chloromethane	1.537	50	10014	1.906	ppbv	92
9) Propene	1.486	41	31355	5.878	ppbv	88
10) Heptane	4.994	43	4991m	0.364	ppbv	
11) Trichlorofluoromethane	1.884	101	2747	0.193	ppbv #	82
13) Ethanol	1.732	45	2100930	4756.166	ppbv	99
15) Acetone	1.838	43	315433	21.480	ppbv	98
17) tert-Butyl alcohol	2.052	59	15513	1.065	ppbv	100
19) Isopropyl Alcohol	1.894	45	43147	4.897	ppbv #	1
20) Methylene Chloride	2.068	84	6983	1.668	ppbv	88
25) Ethyl Acetate	2.848	43	30957	1.133	ppbv #	90
29) Chloroform	2.858	83	23212	1.469	ppbv	95
34) 2-Butanone	2.567	43	72623	4.836	ppbv	99
35) Carbon Tetrachloride	3.777	117	981m	0.074	ppbv	
36) Benzene	3.667	78	15442	0.800	ppbv	97
42) Bromodichloromethane	4.499	83	3849m	0.278	ppbv	
50) 4-Methyl-2-Pentanone	5.800	43	5944m	0.291	ppbv	
53) Toluene	6.949	91	27768	1.269	ppbv	96
58) Ethyl Benzene	9.364	91	10320m	0.345	ppbv	
59) m/p-Xylene	9.545	91	39541	1.645	ppbv #	100
60) o-Xylene	9.975	91	15281	0.634	ppbv	97
61) Styrene	9.885	104	4539	0.435	ppbv	98
64) n-propylbenzene	10.995	120	2431m	0.265	ppbv	
69) p-Isopropyltoluene	11.937	119	6800	0.182	ppbv #	85
72) 4-Ethyltoluene	11.137	105	15210	0.534	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	15880	0.673	ppbv	89
74) 1,2,4-Trimethylbenzene	11.548	105	73547	2.896	ppbv #	58
79) Naphthalene	13.526	128	3853m	0.218	ppbv	
80) Naphthalene,2-methyl-	14.471	142	645	0.118	ppbv #	72

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

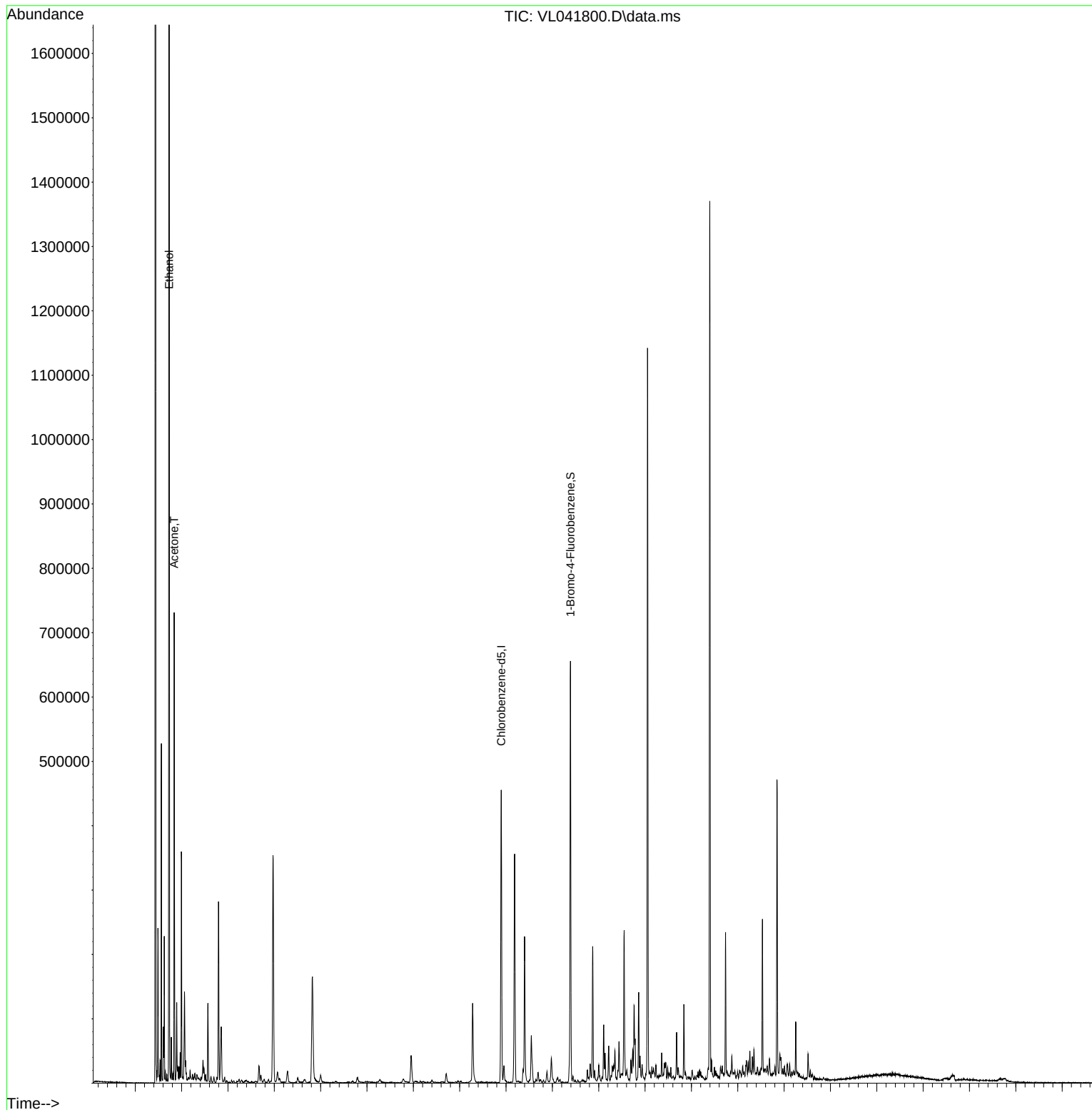
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Data File : VL041800.D
Acq On : 18 Dec 2024 18:50
Operator : SY/MD
Sample : P5293-03
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

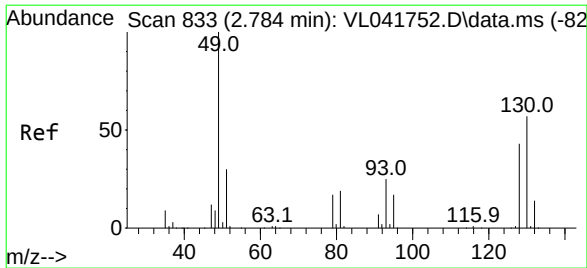
Instrument :
MSVOA_L
ClientSampleId :
C0AC1

Quant Time: Dec 19 07:57:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/19/2024
Supervised By : Mahesh Dadoda 12/19/2024





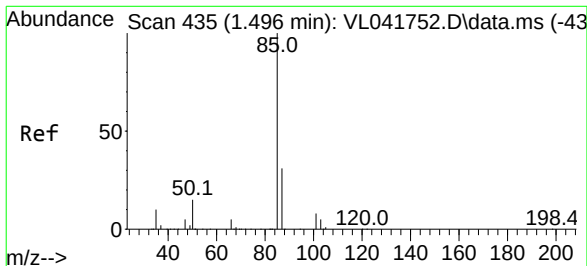
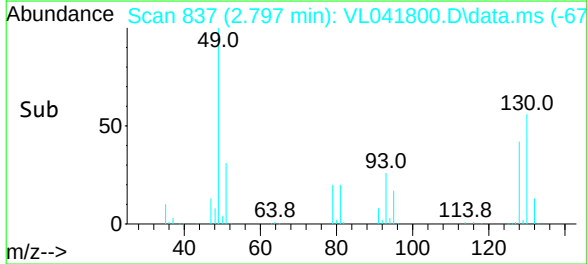
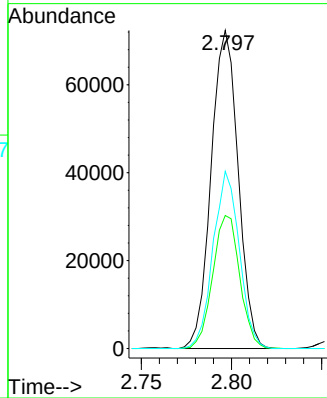
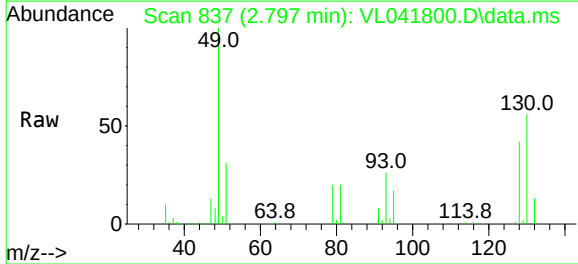
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Instrument :
MSVOA_L
ClientSampleId :
C0AC1

Tgt Ion: 49 Resp: 75472
Ion Ratio Lower Upper
49 100
128 41.8 21.6 64.6
130 53.9 28.3 85.0

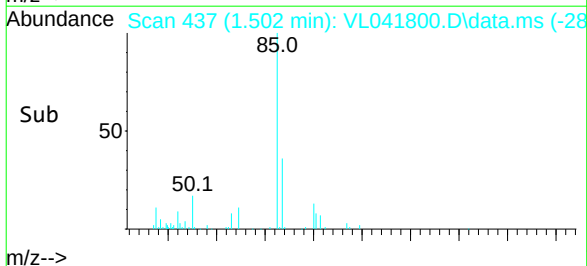
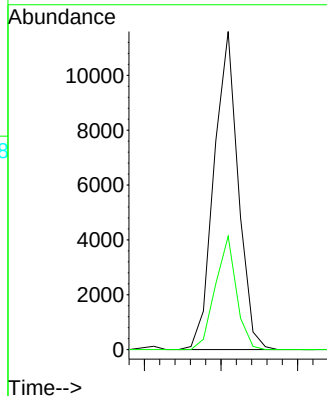
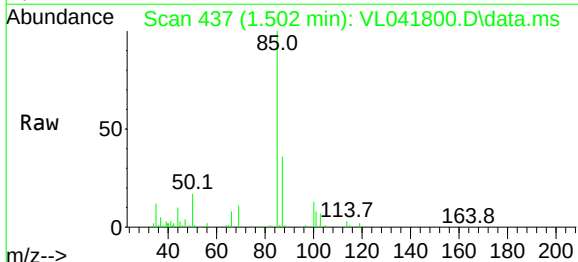
Manual Integrations
APPROVED

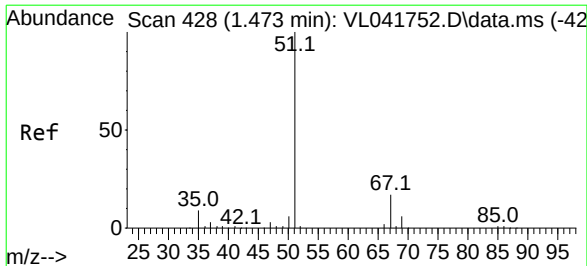
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 0.380 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

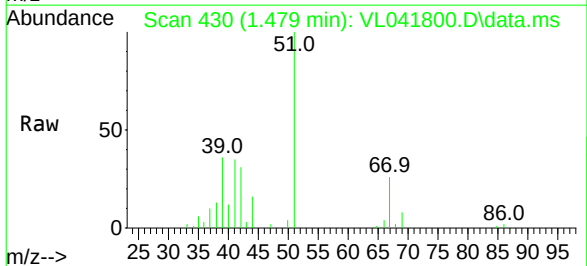
Tgt Ion: 85 Resp: 5105
Ion Ratio Lower Upper
85 100
87 35.6 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.252 ppbv m
RT: 1.479 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

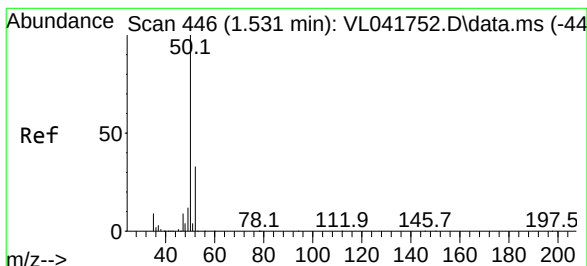
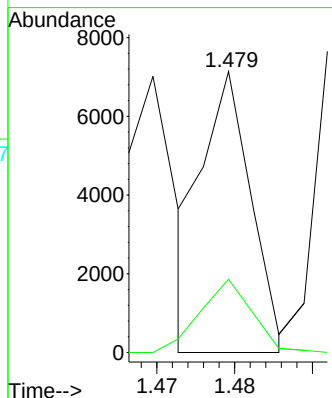
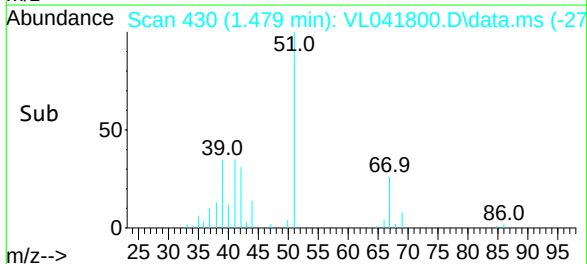
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion: 51 Resp: 3096
Ion Ratio Lower Upper
51 100
67 3.0 15.0 22.4#

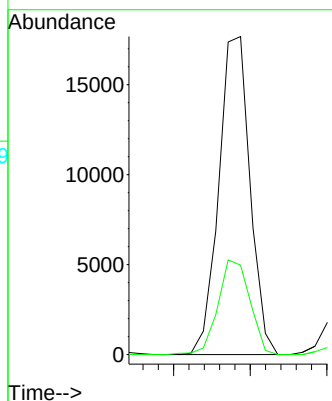
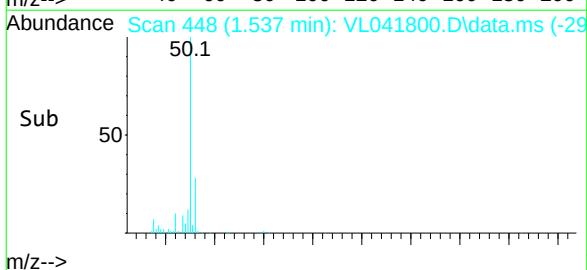
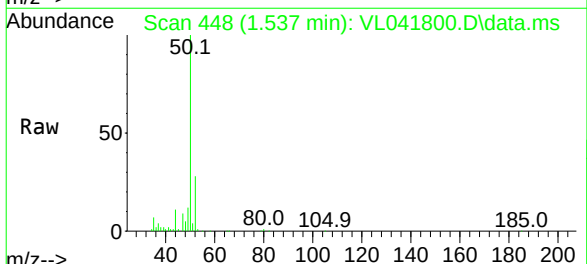
Manual Integrations
APPROVED

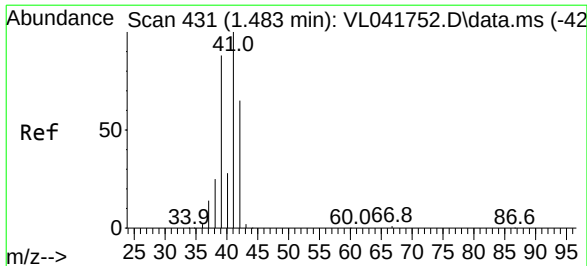
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#4
Chloromethane
Concen: 1.906 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 50 Resp: 10014
Ion Ratio Lower Upper
50 100
52 28.1 26.2 39.2





#9

Propene

Concen: 5.878 ppbv

RT: 1.486 min Scan# 431

Delta R.T. 0.003 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

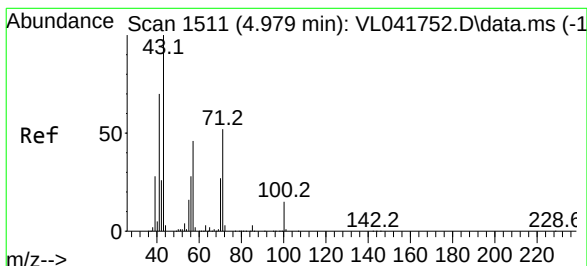
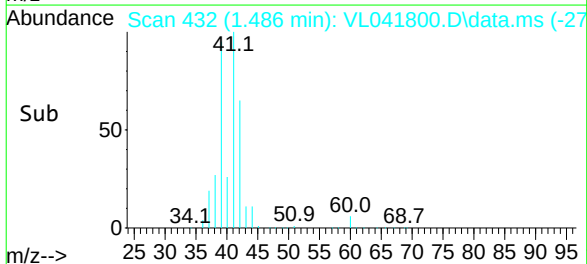
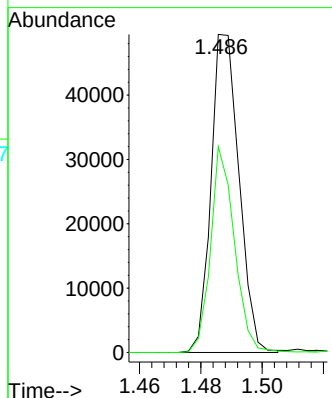
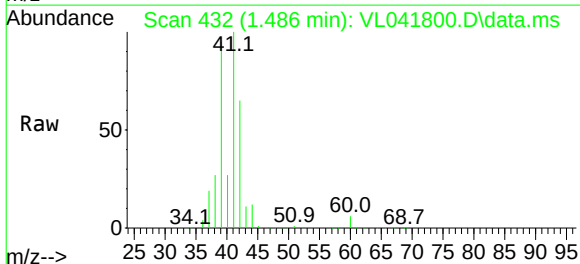
ClientSampleId :

C0AC1

Tgt Ion: 41 Resp: 31355
 Ion Ratio Lower Upper
 41 100
 42 55.6 52.4 78.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#10

Heptane

Concen: 0.364 ppbv m

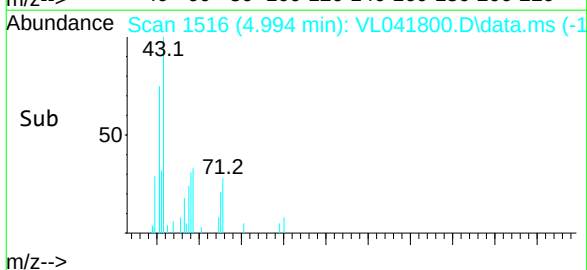
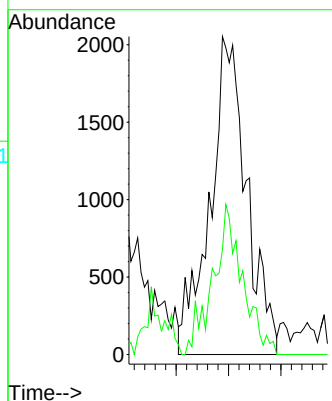
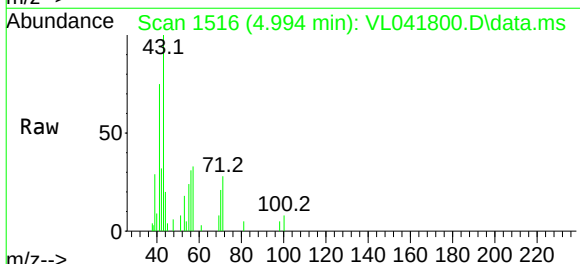
RT: 4.994 min Scan# 1516

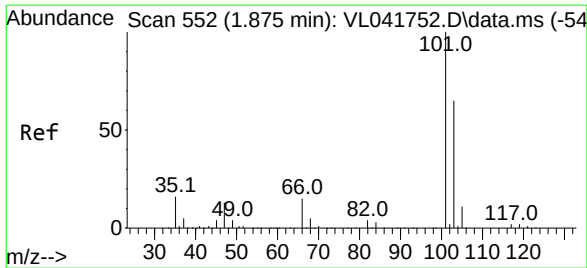
Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

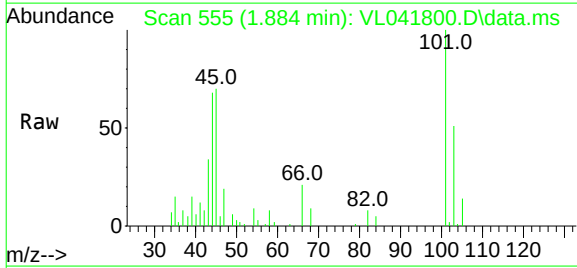
Tgt Ion: 43 Resp: 4991
 Ion Ratio Lower Upper
 43 100
 57 37.8 38.5 57.7#





#11
Trichlorofluoromethane
Concen: 0.193 ppbv
RT: 1.884 min Scan# 552
Delta R.T. 0.009 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

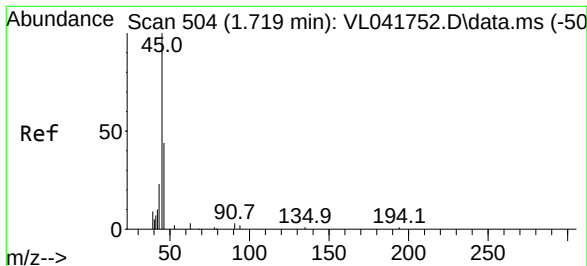
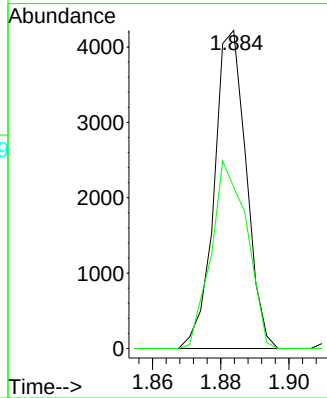
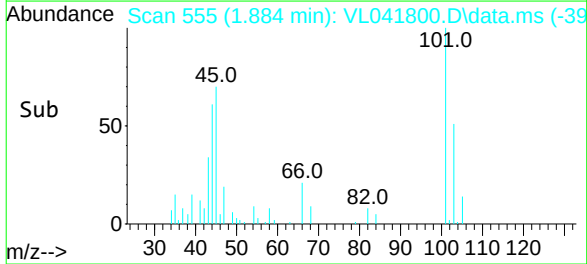
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion: 101 Resp: 2747
Ion Ratio Lower Upper
101 100
103 50.7 51.8 77.8

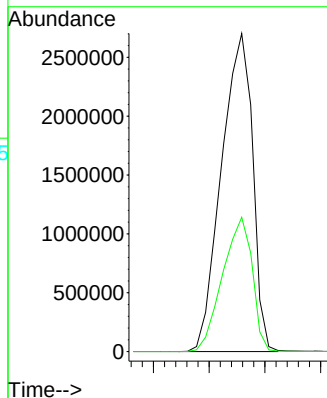
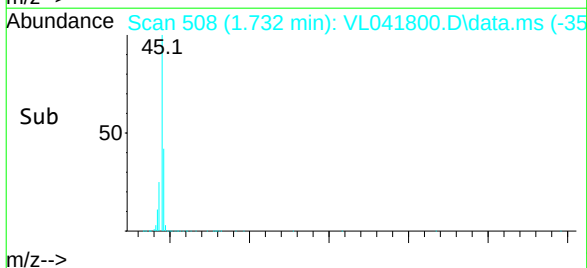
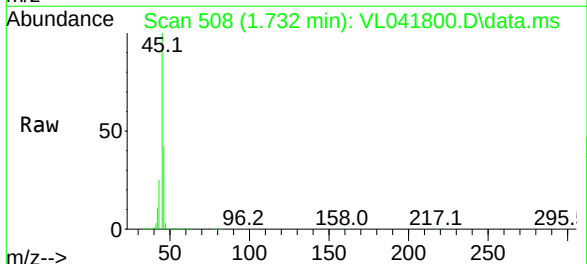
Manual Integrations
APPROVED

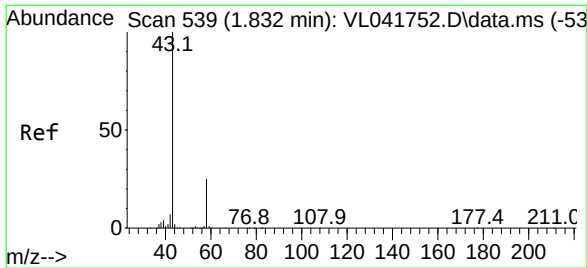
Reviewed By : Semsettin Yesilyurt 12/19/2024
Supervised By : Mahesh Dadoda 12/19/2024



#13
Ethanol
Concen: 4756.166 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

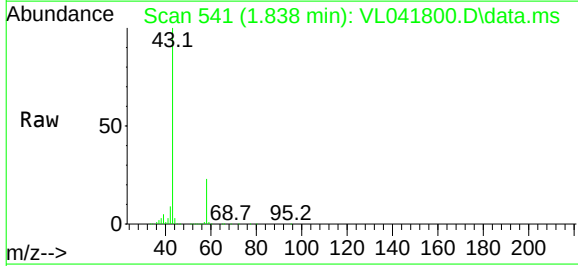
Tgt Ion: 45 Resp: 2100930
Ion Ratio Lower Upper
45 100
46 40.2 16.4 65.8





#15
Acetone
Concen: 21.480 ppbv
RT: 1.838 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

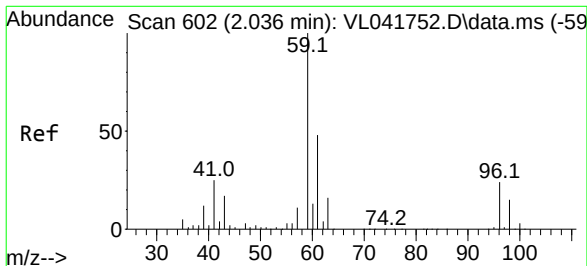
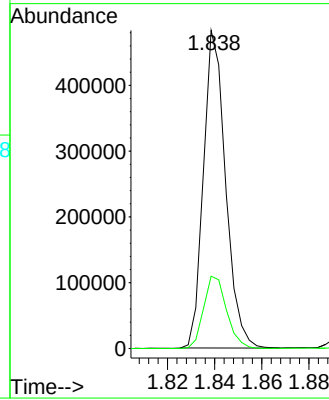
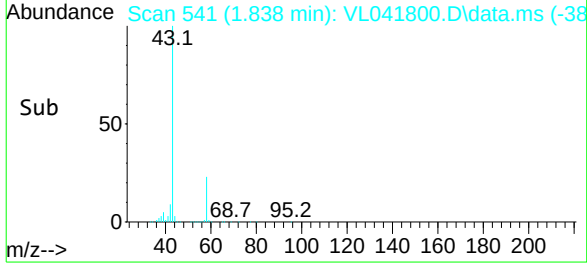
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion: 43 Resp: 315433
Ion Ratio Lower Upper
43 100
58 23.8 19.7 29.5

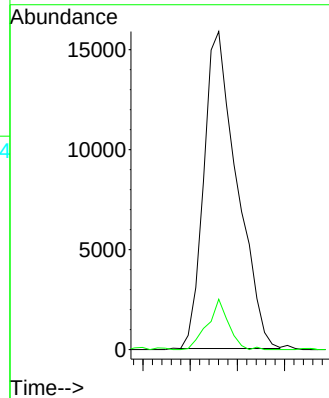
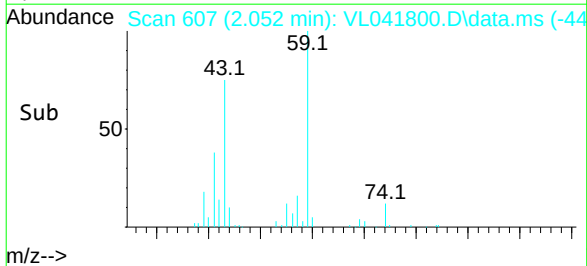
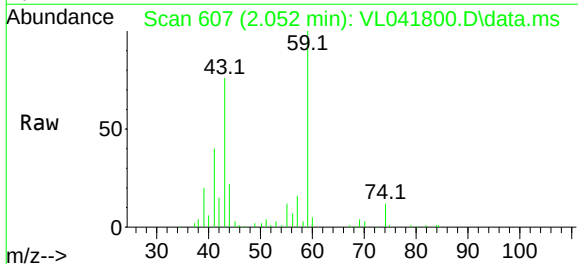
Manual Integrations
APPROVED

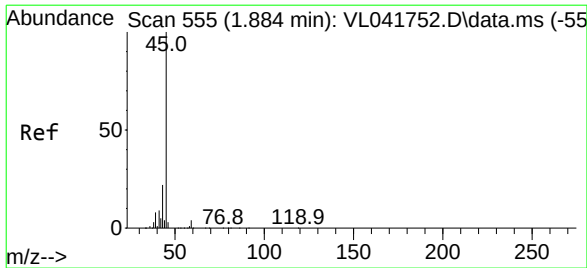
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#17
tert-Butyl alcohol
Concen: 1.065 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

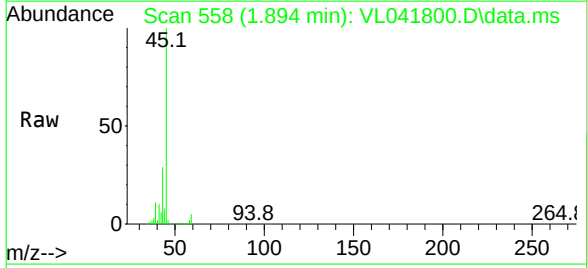
Tgt Ion: 59 Resp: 15513
Ion Ratio Lower Upper
59 100
57 10.7 8.6 13.0





#19
Isopropyl Alcohol
Concen: 4.897 ppbv
RT: 1.894 min Scan# 555
Delta R.T. 0.009 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

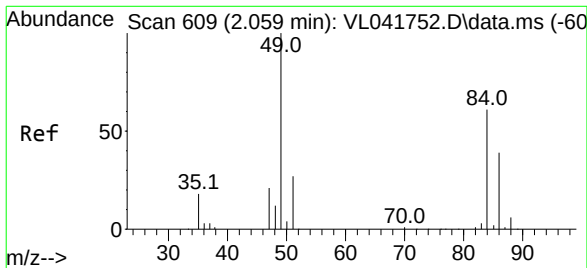
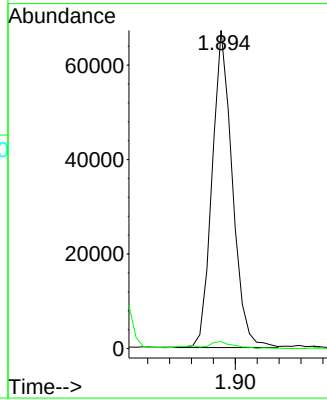
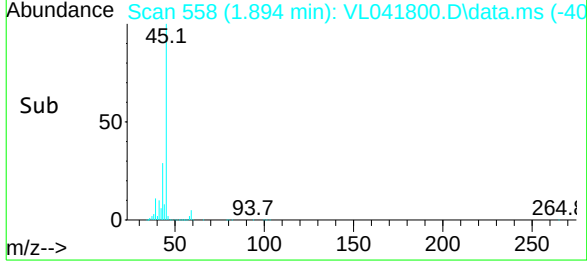
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



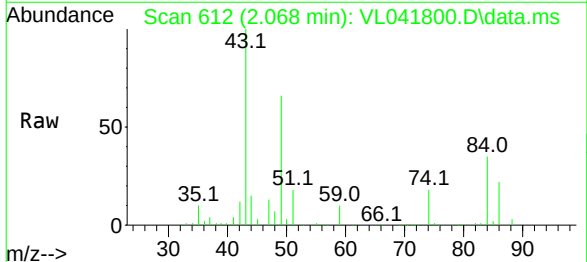
Tgt Ion: 45 Resp: 43147
Ion Ratio Lower Upper
45 100
58 172.8 33.3 49.9#

Manual Integrations
APPROVED

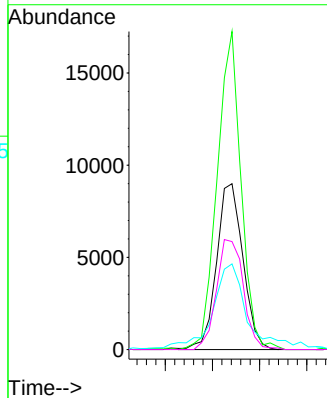
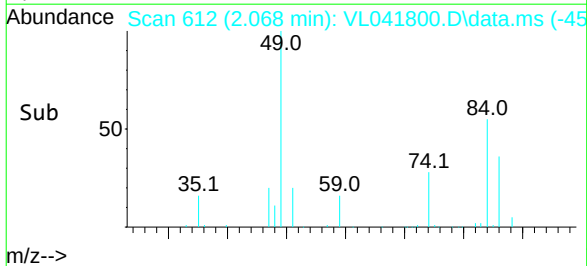
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

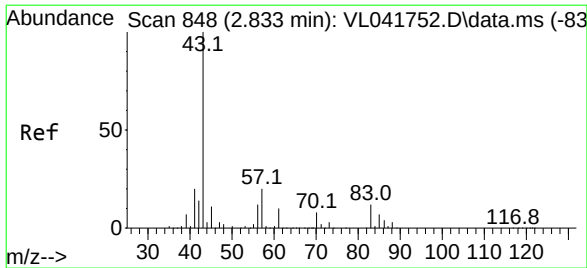


#20
Methylene Chloride
Concen: 1.668 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50



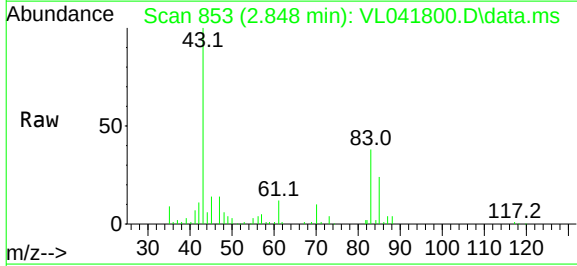
Tgt Ion: 84 Resp: 6983
Ion Ratio Lower Upper
84 100
49 191.7 132.6 198.8
51 47.4 37.6 56.4
86 65.1 51.4 77.0





#25
Ethyl Acetate
Concen: 1.133 ppbv
RT: 2.848 min Scan# 855
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

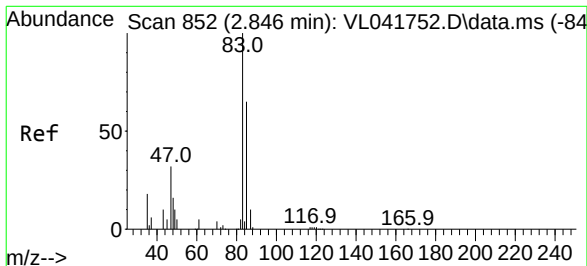
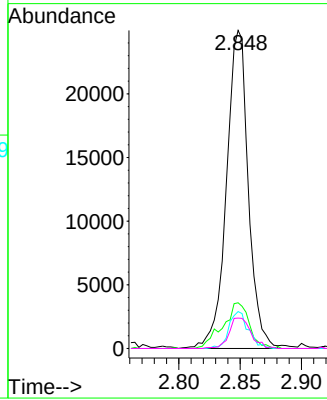
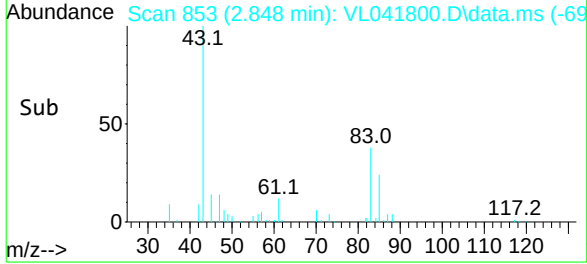
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion	Ratio	Lower	Upper
43	100		
45	17.4	8.1	12.1
61	10.3	7.0	10.6
70	9.6	6.5	9.7

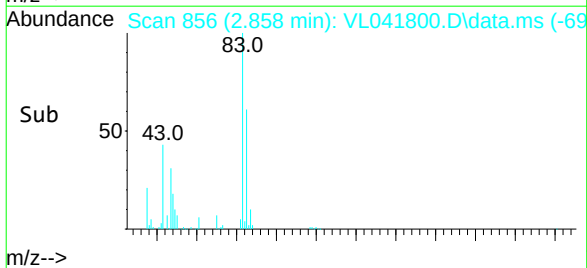
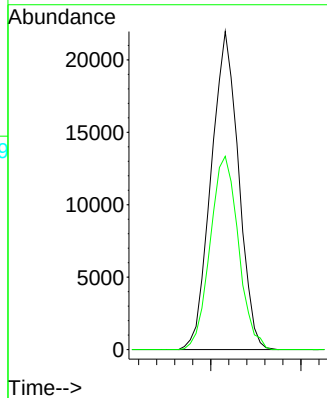
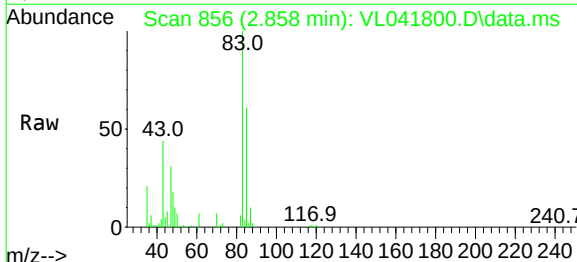
Manual Integrations
APPROVED

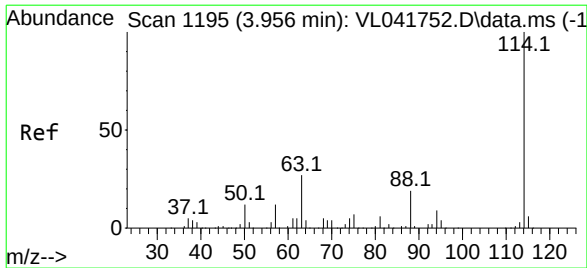
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#29
Chloroform
Concen: 1.469 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

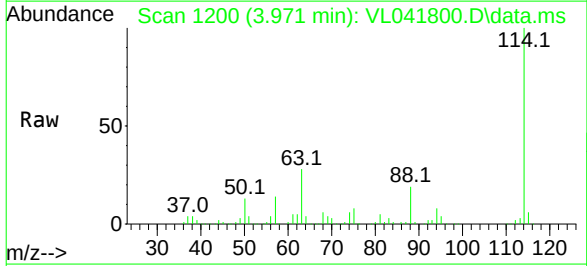
Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.8	51.8	77.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 12
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

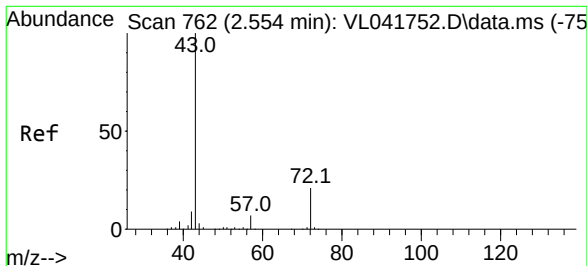
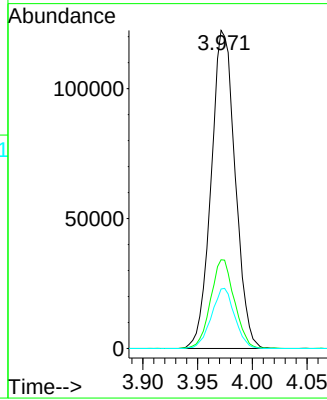
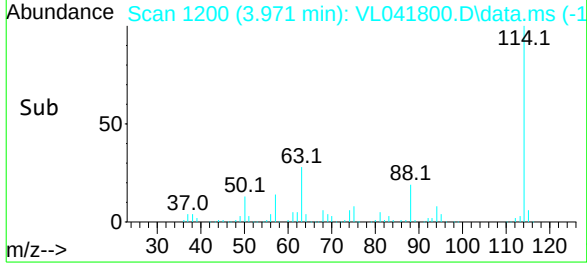
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion: 114 Resp: 186655
Ion Ratio Lower Upper
114 100
63 27.7 21.8 32.8
88 18.3 14.8 22.2

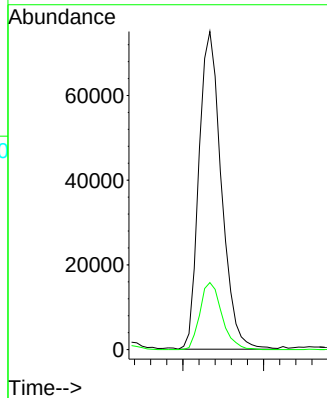
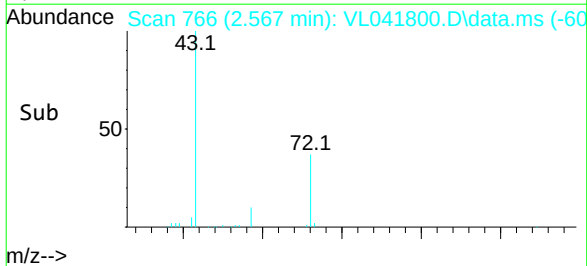
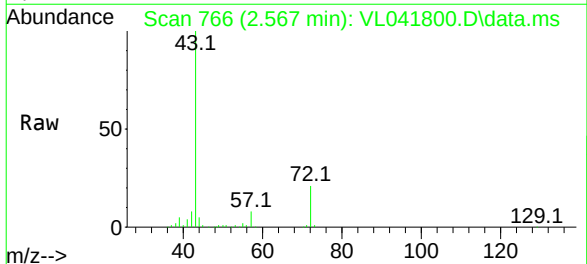
Manual Integrations
APPROVED

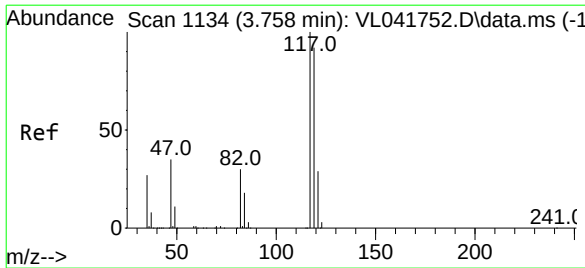
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 4.836 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

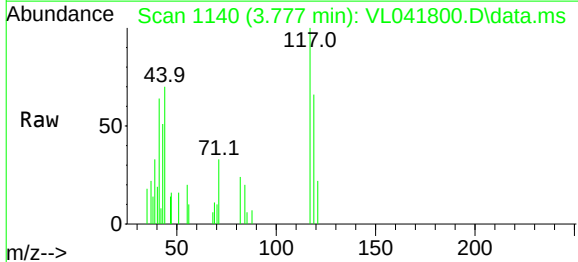
Tgt Ion: 43 Resp: 72623
Ion Ratio Lower Upper
43 100
72 20.6 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.777 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

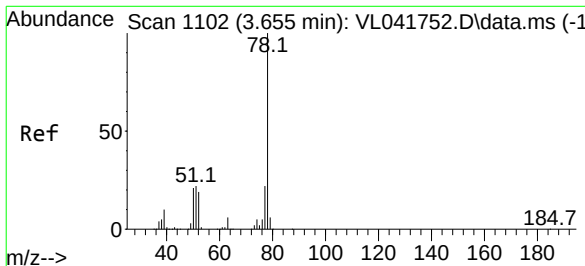
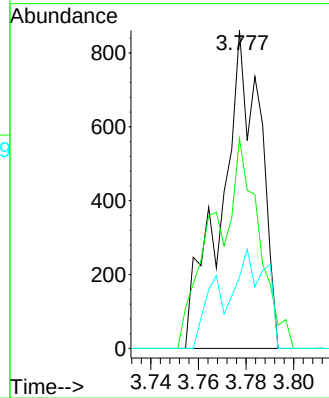
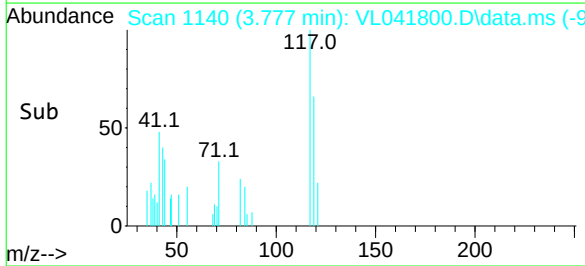
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion: 117 Resp: 981
Ion Ratio Lower Upper
117 100
119 66.1 73.7 110.5#
121 22.4 23.0 34.4#

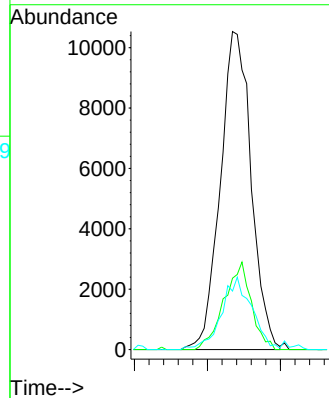
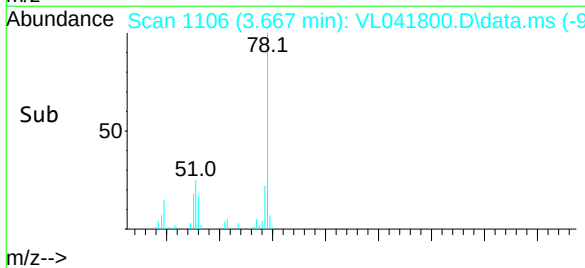
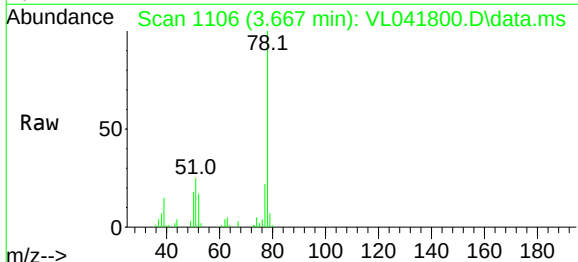
Manual Integrations
APPROVED

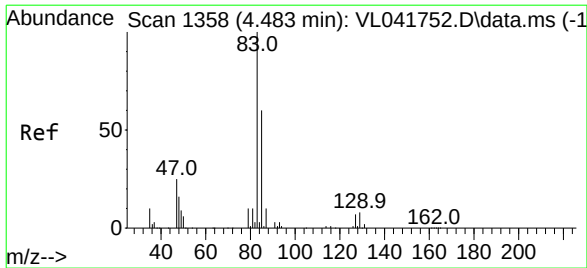
Reviewed By : Semsettin Yesilyurt 12/19/2024
Supervised By : Mahesh Dadoda 12/19/2024



#36
Benzene
Concen: 0.800 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 78 Resp: 15442
Ion Ratio Lower Upper
78 100
77 22.4 17.8 26.6
50 18.4 17.2 25.8





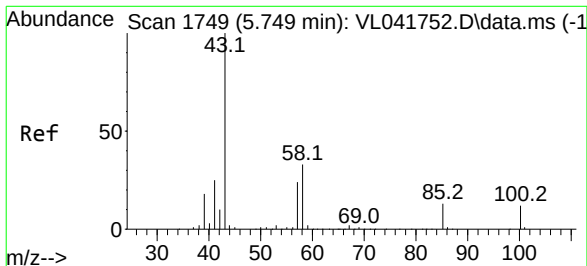
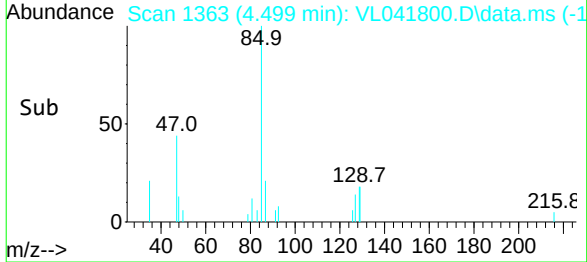
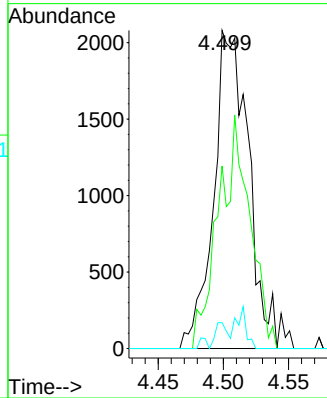
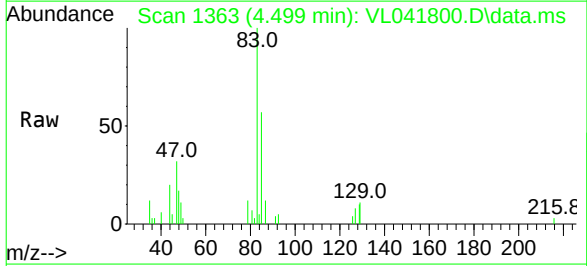
#42
Bromodichloromethane
Concen: 0.278 ppbv m
RT: 4.499 min Scan# 1358
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Instrument :
MSVOA_L
ClientSampleId :
C0AC1

Tgt Ion	83	Resp	3849
Ion	Ratio	Lower	Upper
83	100		
85	57.4	48.0	72.0
127	8.1	5.8	8.8

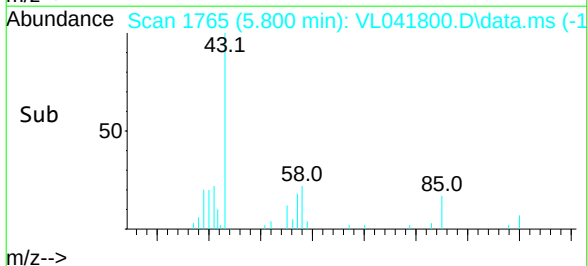
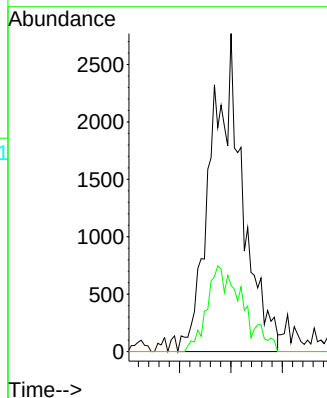
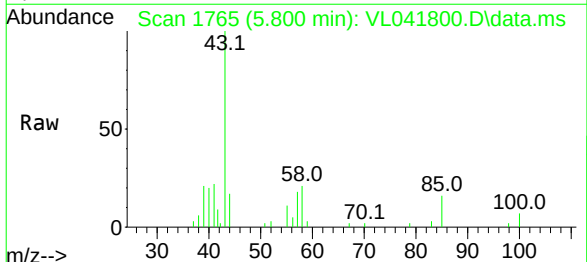
Manual Integrations
APPROVED

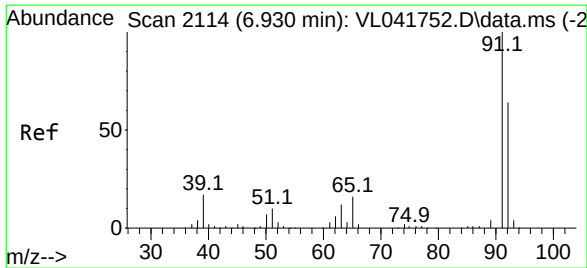
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#50
4-Methyl-2-Pentanone
Concen: 0.291 ppbv m
RT: 5.800 min Scan# 1765
Delta R.T. 0.051 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

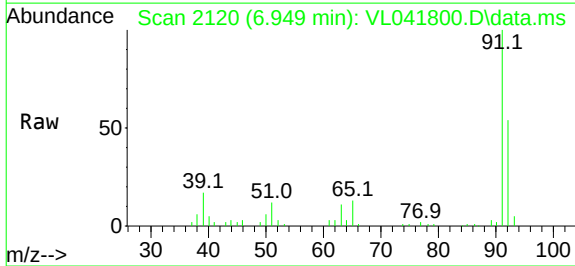
Tgt Ion	43	Resp	5944
Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.8	40.2





#53
Toluene
Concen: 1.269 ppbv
RT: 6.949 min Scan# 2114
Delta R.T. 0.019 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

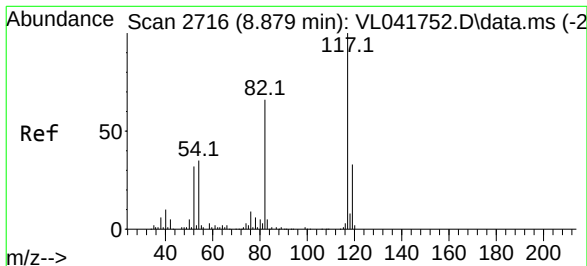
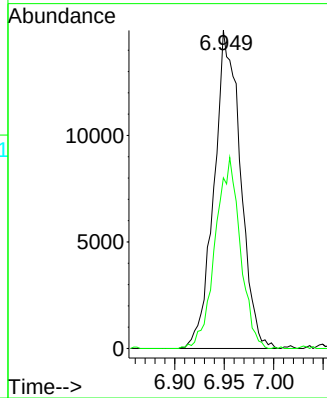
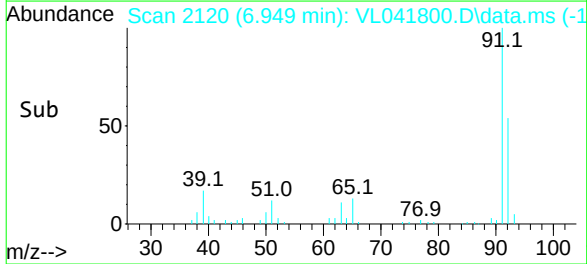
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



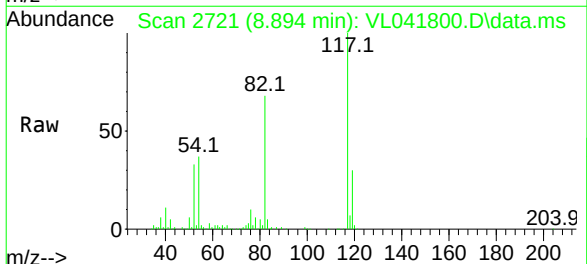
Tgt Ion: 91 Resp: 27768
Ion Ratio Lower Upper
91 100
92 57.1 47.9 71.9

Manual Integrations
APPROVED

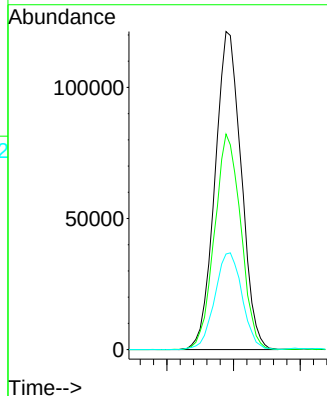
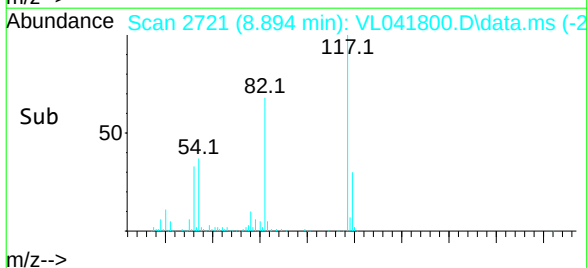
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

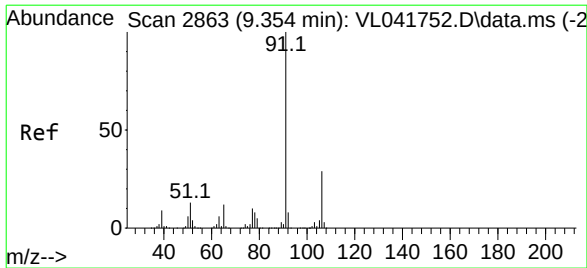


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50



Tgt Ion:117 Resp: 166096
Ion Ratio Lower Upper
117 100
82 67.9 53.8 80.8
119 31.7 26.7 40.1





#58

Ethyl Benzene

Concen: 0.345 ppbv m

RT: 9.364 min Scan# 2863

Delta R.T. 0.009 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

Tgt Ion: 91 Resp: 10320

Ion Ratio Lower Upper

91 100

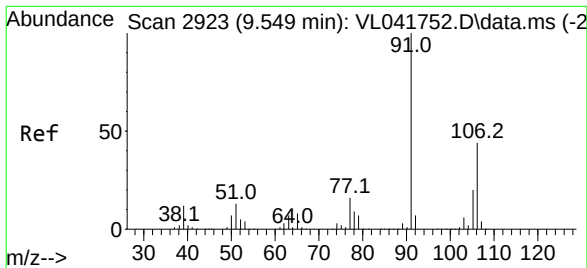
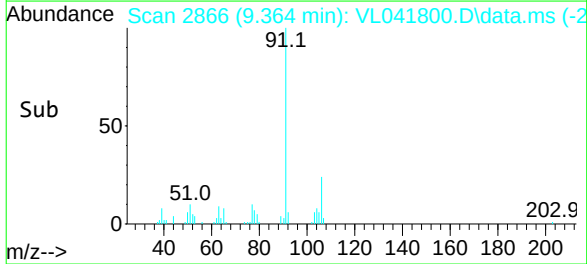
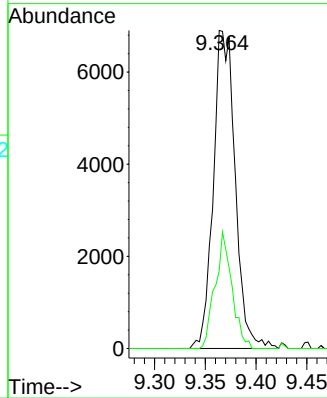
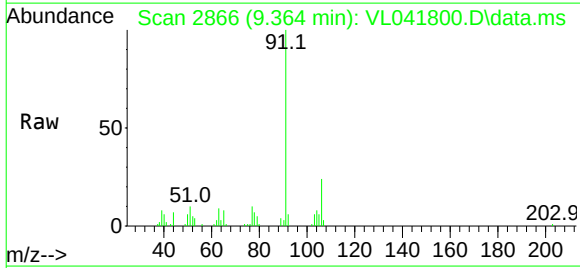
106 24.4 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#59

m/p-Xylene

Concen: 1.645 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. -0.004 min

Lab File: VL041800.D

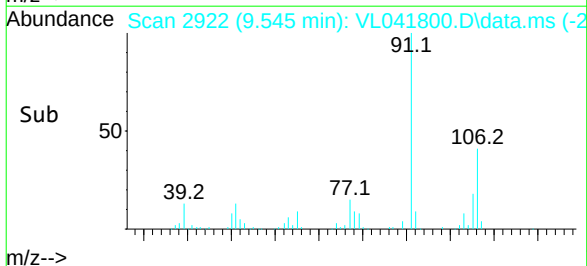
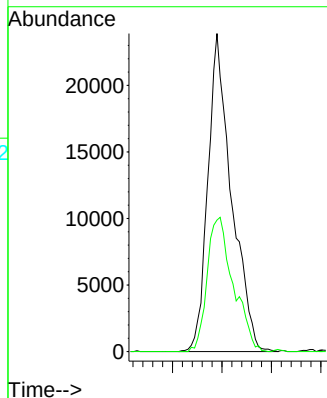
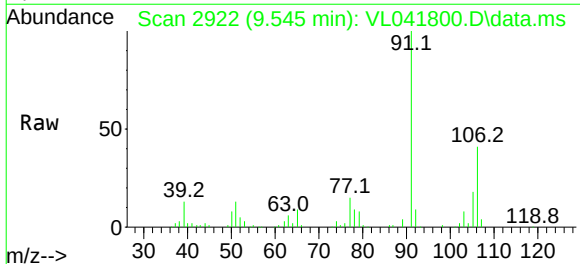
Acq: 18 Dec 2024 18:50

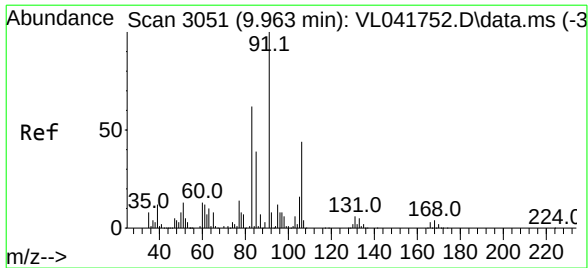
Tgt Ion: 91 Resp: 39541

Ion Ratio Lower Upper

91 100

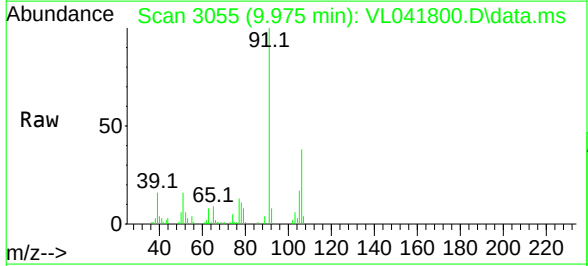
106 46.9 0.0 0.0#





#60
o-Xylene
Concen: 0.634 ppbv
RT: 9.975 min Scan# 3055
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

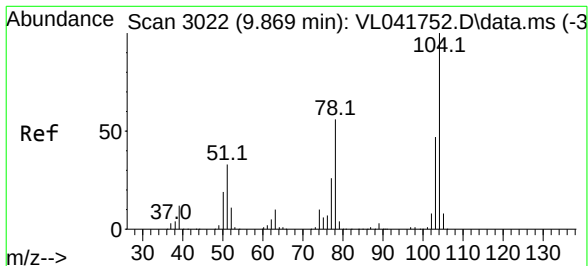
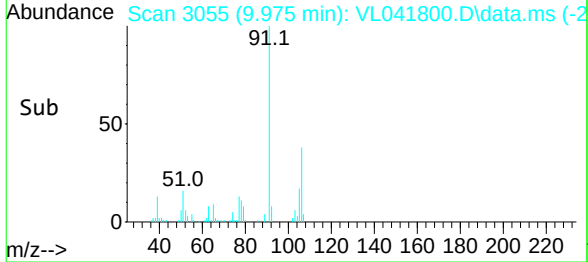
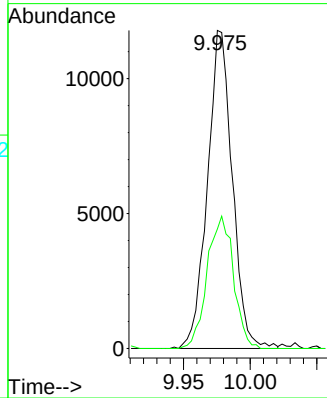
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



Tgt Ion: 91 Resp: 15281
Ion Ratio Lower Upper
91 100
106 44.0 21.1 63.4

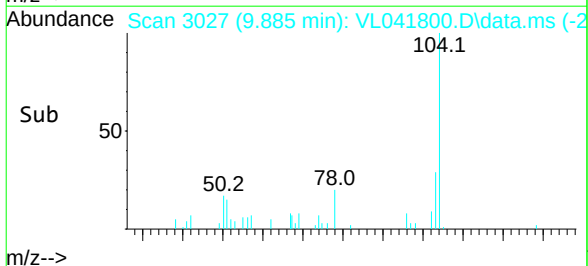
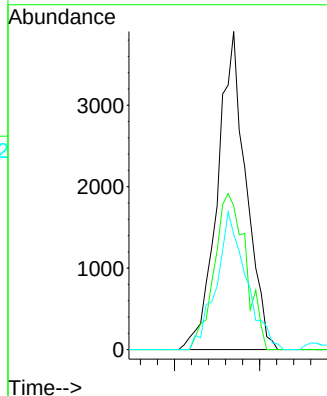
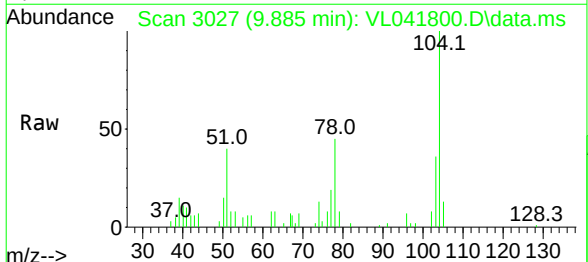
Manual Integrations
APPROVED

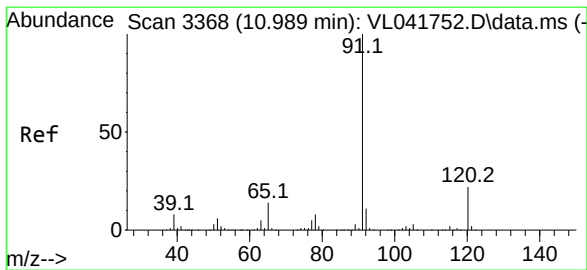
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#61
Styrene
Concen: 0.435 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion:104 Resp: 4539
Ion Ratio Lower Upper
104 100
78 54.2 43.8 65.6
103 45.3 37.8 56.6





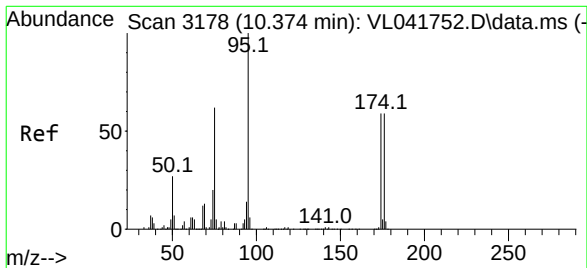
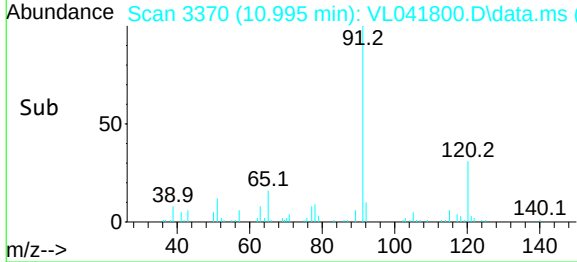
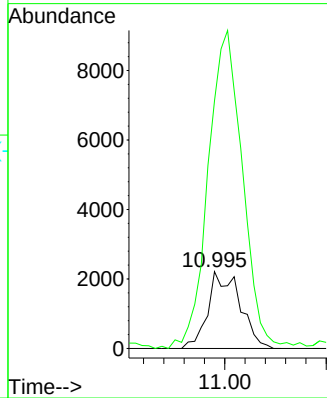
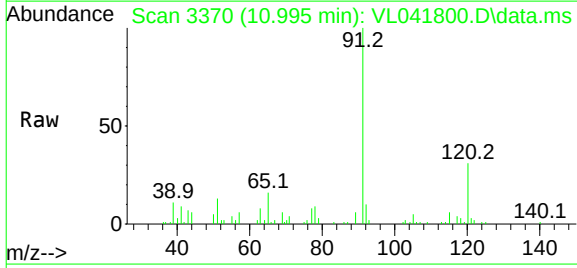
#64
n-propylbenzene
Concen: 0.265 ppbv m
RT: 10.995 min Scan# 3368
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Instrument :
MSVOA_L
ClientSampleId :
C0AC1

Tgt Ion: 120 Resp: 2431
Ion Ratio Lower Upper
120 100
91 452.3 387.3 580.9

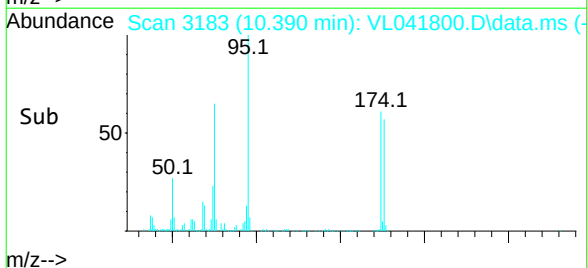
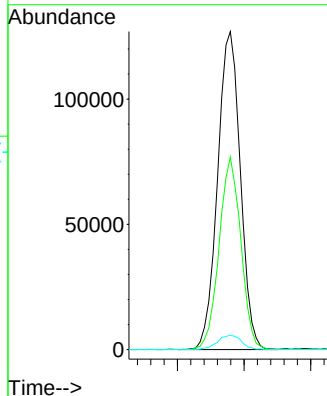
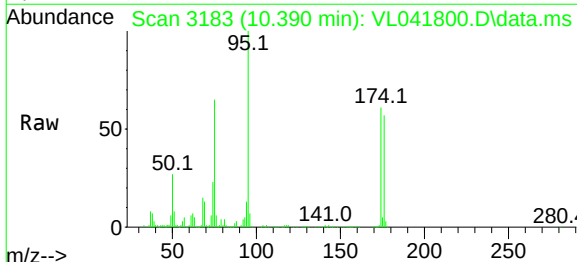
Manual Integrations
APPROVED

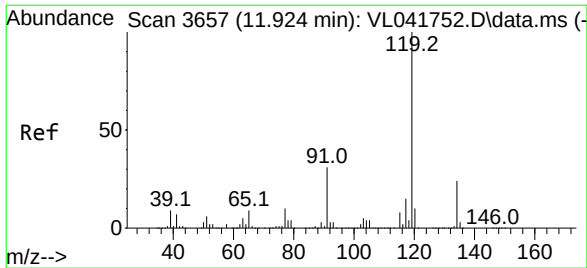
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.870 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 95 Resp: 150452
Ion Ratio Lower Upper
95 100
174 58.0 47.6 71.4
175 4.8 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.182 ppbv

RT: 11.937 min Scan# 3657

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

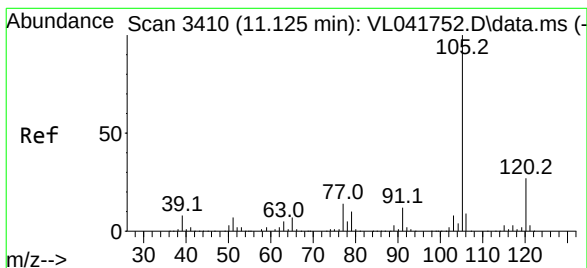
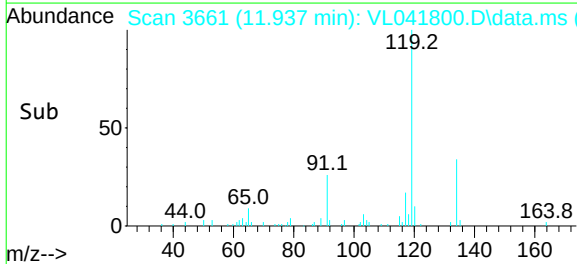
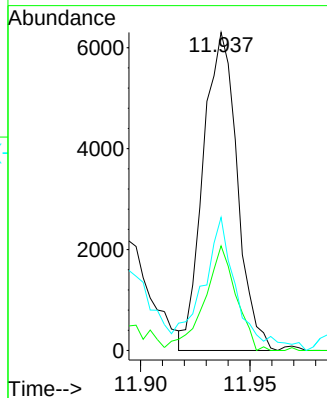
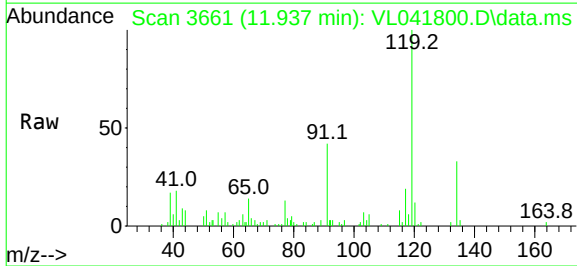
C0AC1

Tgt Ion:	119	Resp:	6800
Ion Ratio	Lower	Upper	
119	100		
134	30.8	19.6	29.4#
91	39.3	24.4	36.6#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#72

4-Ethyltoluene

Concen: 0.534 ppbv

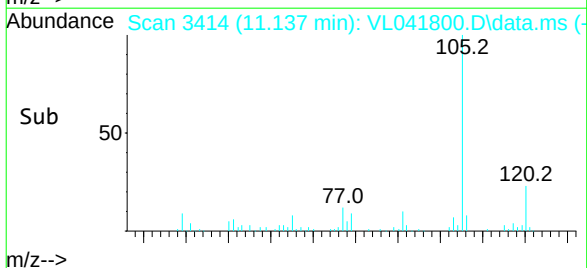
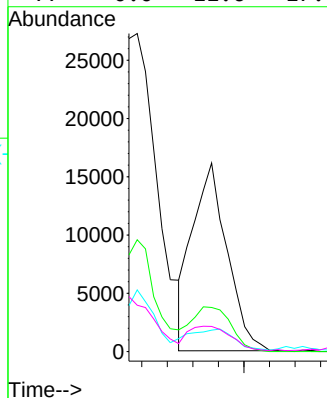
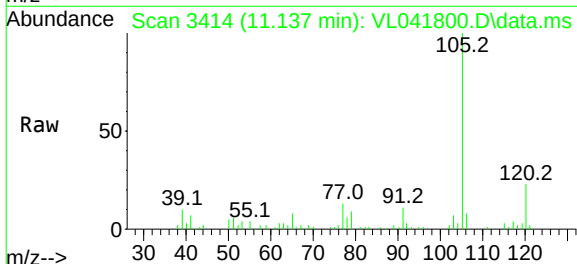
RT: 11.137 min Scan# 3414

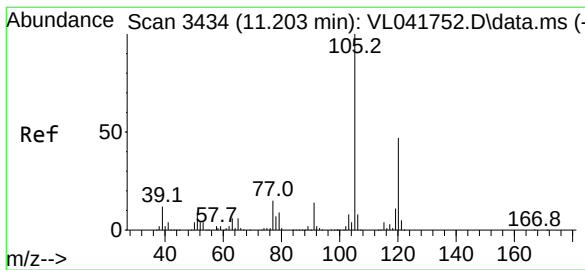
Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Tgt Ion:	105	Resp:	15210
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.3	34.9#
91	0.0	10.9	16.3#
77	0.0	11.6	17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.673 ppbv

RT: 11.215 min Scan# 341

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

Tgt Ion:105 Resp: 15880

Ion Ratio Lower Upper

105 100

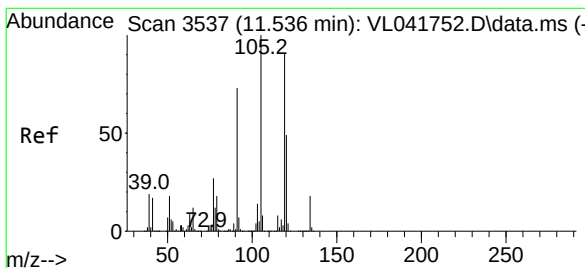
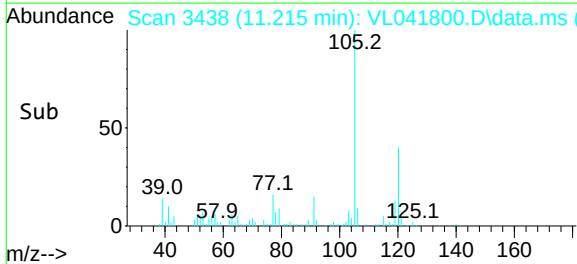
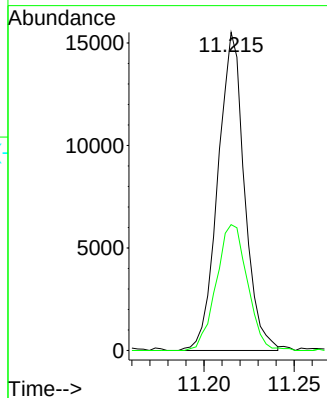
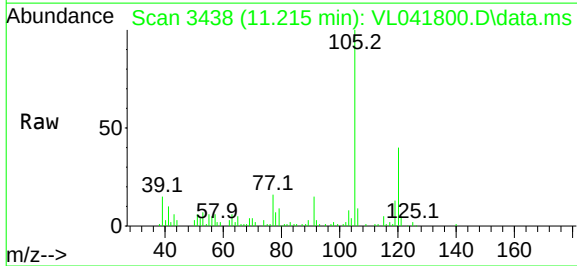
120 39.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#74

1,2,4-Trimethylbenzene

Concen: 2.896 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Tgt Ion:105 Resp: 73547

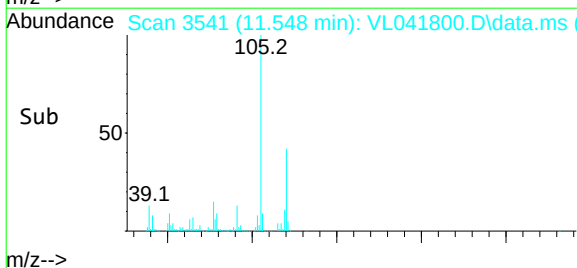
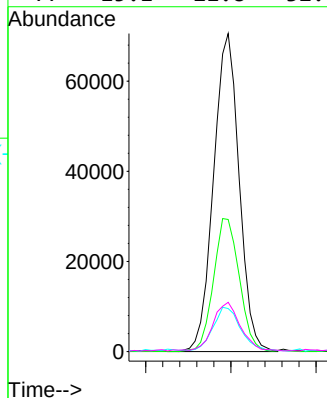
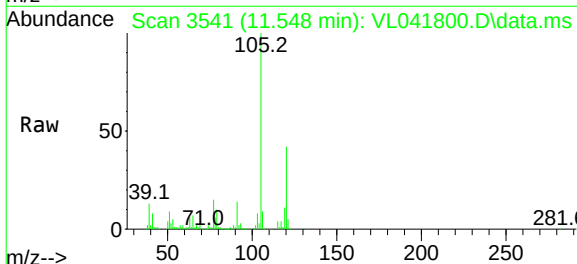
Ion Ratio Lower Upper

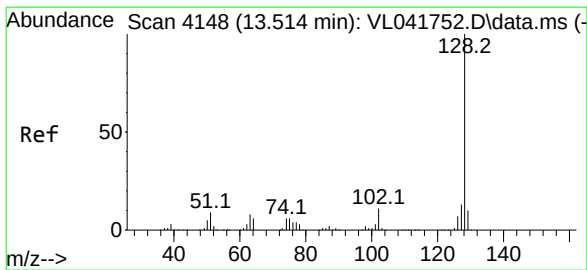
105 100

120 41.5 39.0 58.4

91 13.2 58.1 87.1#

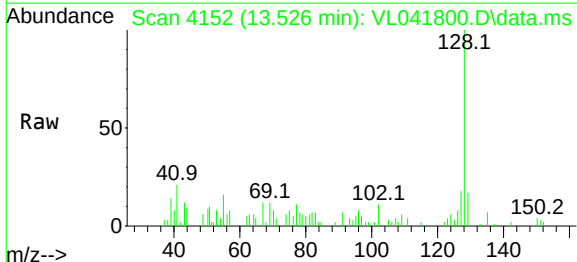
77 15.1 21.8 32.8#





#79
Naphthalene
Concen: 0.218 ppbv m
RT: 13.526 min Scan# 4148
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

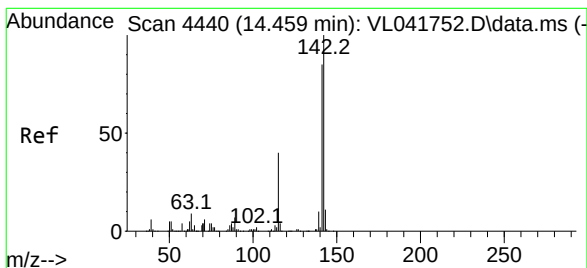
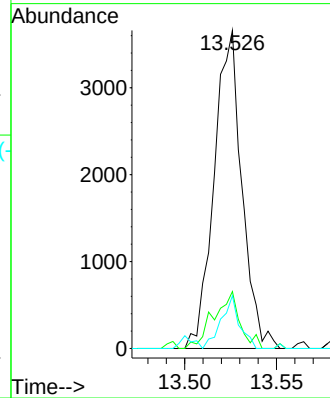
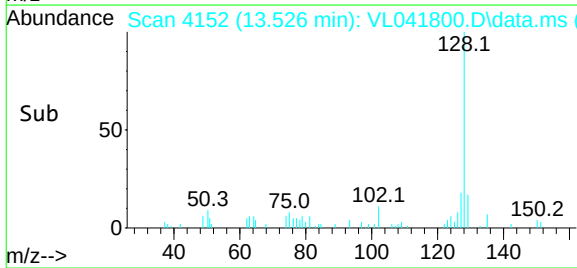
Instrument :
MSVOA_L
ClientSampleId :
C0AC1



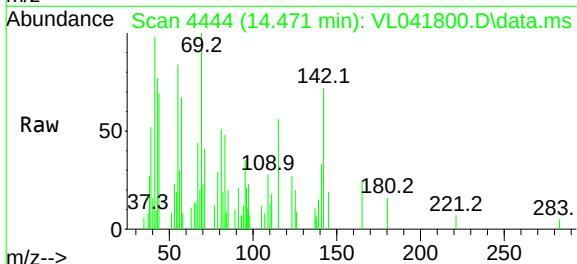
Tgt Ion:128 Resp: 3853
Ion Ratio Lower Upper
128 100
127 17.9 10.7 16.1#
129 16.6 8.2 12.4#

Manual Integrations
APPROVED

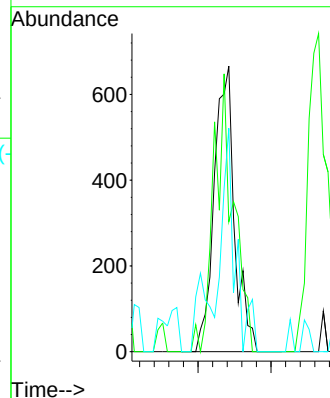
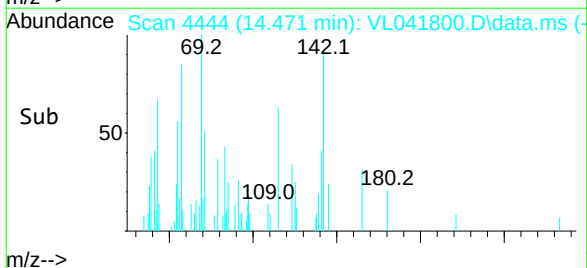
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#80
Naphthalene,2-methyl-
Concen: 0.118 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50



Tgt Ion:142 Resp: 645
Ion Ratio Lower Upper
142 100
141 94.1 68.4 102.6
115 81.9 32.5 48.7#



Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC1DL	SDG No.:	P5293
Lab Sample ID:	P5293-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041810.D	2		12/19/24 00:11	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.44	2.18	JD	2.08	4.94	ug/m3
74-87-3	Chloromethane	1.90	3.92	D	0.41	2.07	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	UD	0.080	0.15	ug/m3
74-83-9	Bromomethane	0.28	1.09	UD	1.09	3.88	ug/m3
75-00-3	Chloroethane	0.34	0.90	UD	0.90	2.64	ug/m3
109-99-9	Tetrahydrofuran	0.26	0.77	UD	0.77	2.95	ug/m3
75-69-4	Trichlorofluoromethane	0.32	1.80	UD	1.80	5.62	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.32	2.45	UD	2.45	7.66	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.18	1.26	UD	1.26	6.99	ug/m3
75-65-0	tert-Butyl alcohol	1.00	3.03	D	1.15	3.03	ug/m3
142-82-5	Heptane	0.22	0.90	UD	0.90	4.10	ug/m3
75-35-4	1,1-Dichloroethene	0.28	1.11	UD	1.11	3.96	ug/m3
67-64-1	Acetone	20.7	49.2	D	1.14	2.38	ug/m3
75-15-0	Carbon Disulfide	0.32	1.00	UD	1.00	3.11	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.24	0.87	UD	0.87	3.61	ug/m3
75-09-2	Methylene Chloride	1.70	5.91	D	1.32	3.47	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.38	1.51	UD	1.51	3.96	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	4.10	12.1	D	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.020	0.13	UD	0.13	0.38	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.18	0.71	UD	0.71	3.96	ug/m3
67-66-3	Chloroform	1.30	6.35	D	0.83	4.88	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	UD	0.11	0.33	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.20	0.93	UD	0.93	4.67	ug/m3
71-43-2	Benzene	0.70	2.24	JD	0.54	3.19	ug/m3
107-06-2	1,2-Dichloroethane	0.18	0.73	UD	0.73	4.05	ug/m3
79-01-6	Trichloroethene	0.030	0.16	UD	0.16	0.32	ug/m3
78-87-5	1,2-Dichloropropane	0.22	1.02	UD	1.02	4.62	ug/m3
75-27-4	Bromodichloromethane	0.26	1.74	JD	1.00	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	0.94	3.54	JD	0.83	3.77	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.12	0.54	UD	0.54	4.54	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.13	0.59	UD	0.59	4.54	ug/m3
79-00-5	1,1,2-Trichloroethane	0.14	0.76	UD	0.76	5.46	ug/m3

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC1DL	SDG No.:	P5293
Lab Sample ID:	P5293-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041810.D	2		12/19/24 00:11	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.13	1.11	UD	1.11	8.52	ug/m3
106-93-4	1,2-Dibromoethane	0.14	1.08	UD	1.08	1.54	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	UD	0.20	0.41	ug/m3
108-90-7	Chlorobenzene	0.15	0.69	UD	0.69	4.61	ug/m3
100-41-4	Ethyl Benzene	0.24	1.04	JD	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	1.20	5.21	JD	1.82	8.69	ug/m3
95-47-6	o-Xylene	0.47	2.04	JD	1.04	4.34	ug/m3
100-42-5	Styrene	0.36	1.53	JD	0.94	4.26	ug/m3
75-25-2	Bromoform	0.11	1.14	UD	1.14	10.3	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	UD	0.14	0.41	ug/m3
95-49-8	2-Chlorotoluene	0.22	1.14	UD	1.14	5.18	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.42	2.06	JD	1.08	4.92	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.90	9.34	D	0.79	4.92	ug/m3
541-73-1	1,3-Dichlorobenzene	0.16	0.96	UD	0.96	6.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.11	0.66	UD	0.66	6.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.15	0.90	UD	0.90	6.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.17	1.26	UD	1.26	7.42	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.17	1.81	UD	1.81	10.7	ug/m3
106-99-0	1,3-Butadiene	0.26	0.58	UD	0.58	2.21	ug/m3
91-20-3	Naphthalene	0.15	0.79	UD	0.79	1.05	ug/m3
622-96-8	4-Ethyltoluene	0.35	1.72	JD	1.18	4.92	ug/m3
110-54-3	Hexane	0.22	0.78	UD	0.78	3.52	ug/m3
107-05-1	Allyl Chloride	0.30	0.94	UD	0.94	3.13	ug/m3
123-91-1	1,4-Dioxane	0.42	1.51	UD	1.51	3.60	ug/m3
80-62-6	Methyl Methacrylate	0.17	0.70	UD	0.70	4.09	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135	107%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	74100		2.794			
540-36-3	1,4-Difluorobenzene	178000		3.972			
3114-55-4	Chlorobenzene-d5	156000		8.891			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AC1DL	SDG No.:	P5293
Lab Sample ID:	P5293-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041810.D	2		12/19/24 00:11	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL121824\
 Data File : VL041810.D
 Acq On : 19 Dec 2024 00:11
 Operator : SY/MD
 Sample : P5293-03DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC1DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/23/2024

Quant Time: Dec 19 08:01:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	74135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	177633	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	156162	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	138713	10.659	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 106.600%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	2899	0.220	ppbv	94
4) Chloromethane	1.534	50	4999	0.969	ppbv	93
9) Propene	1.486	41	14442	2.756	ppbv	96
11) Trichlorofluoromethane	1.881	101	1359	0.097	ppbv	97
13) Ethanol	1.725	45	1157777	2668.289	ppbv	96
15) Acetone	1.839	43	149341	10.353	ppbv	98
17) tert-Butyl alcohol	2.046	59	7260	0.507	ppbv #	94
19) Isopropyl Alcohol	1.891	45	20001	2.311	ppbv #	1
20) Methylene Chloride	2.065	84	3482	0.847	ppbv	91
29) Chloroform	2.855	83	10038	0.647	ppbv	94
34) 2-Butanone	2.564	43	29410	2.058	ppbv	98
36) Benzene	3.667	78	6389	0.348	ppbv	97
42) Bromodichloromethane	4.502	83	1698	0.129	ppbv #	55
53) Toluene	6.946	91	9756	0.468	ppbv	97
58) Ethyl Benzene	9.364	91	3369	0.120	ppbv #	74
59) m/p-Xylene	9.545	91	13654	0.604	ppbv #	100
60) o-Xylene	9.972	91	5359	0.236	ppbv	99
61) Styrene	9.888	104	1773m	0.181	ppbv	
65) tert-Butylbenzene	11.545	119	2994	0.097	ppbv #	50
72) 4-Ethyltoluene	11.134	105	4673	0.175	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.212	105	4667	0.210	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	22943	0.961	ppbv #	56

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

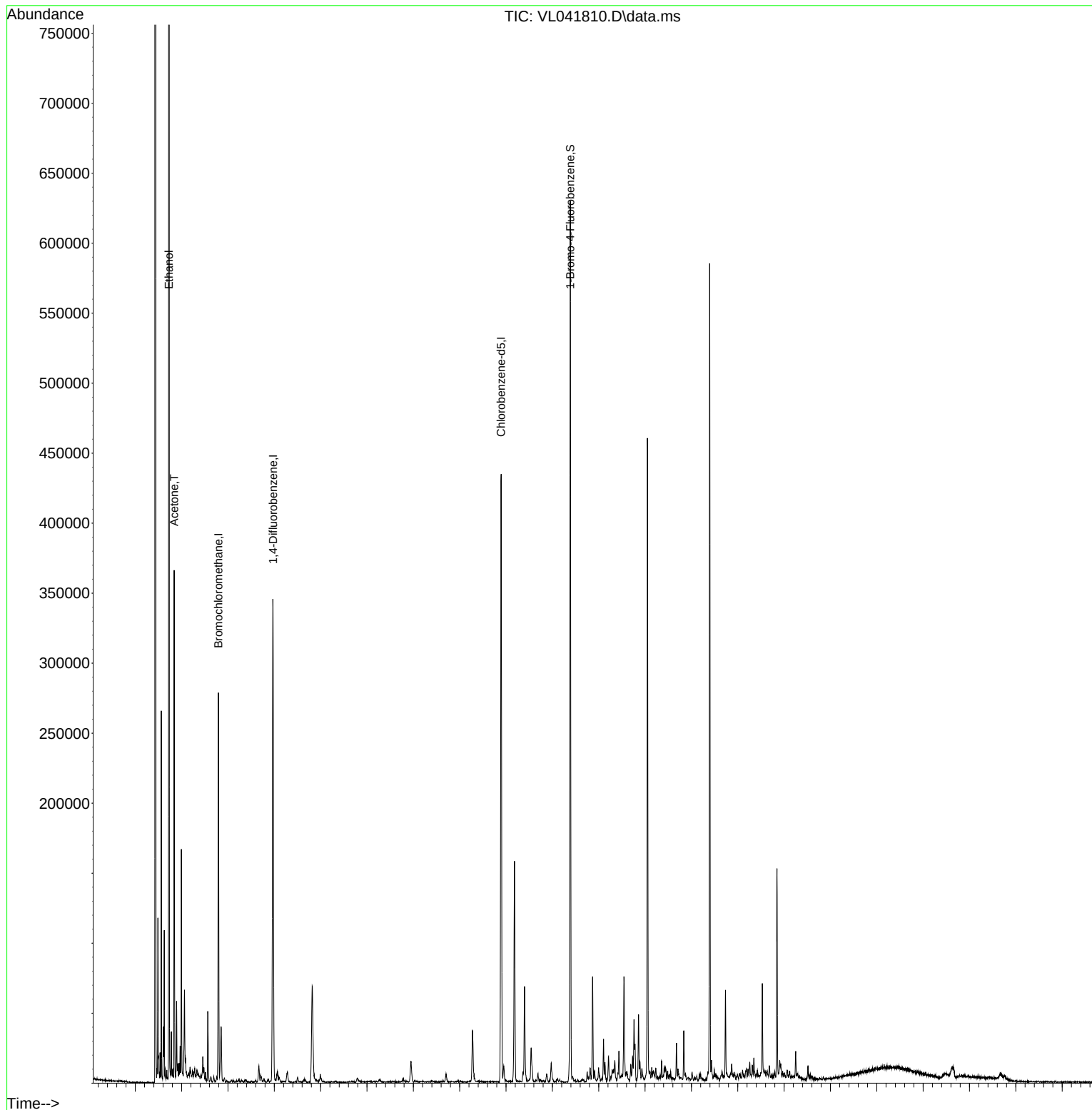
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041810.D
Acq On : 19 Dec 2024 00:11
Operator : SY/MD
Sample : P5293-03DL 2X
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

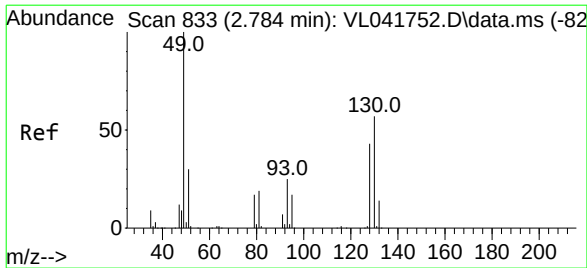
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

Quant Time: Dec 19 08:01:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

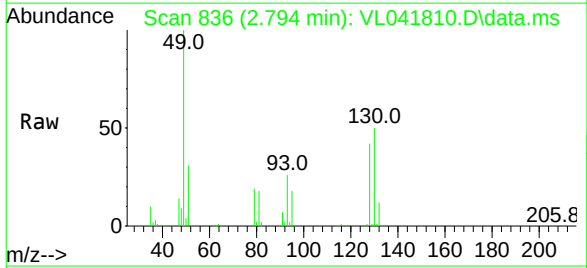
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/23/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 833
Delta R.T. 0.010 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

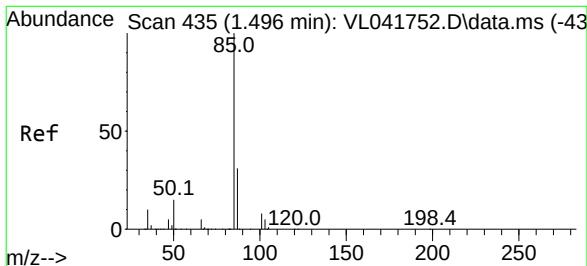
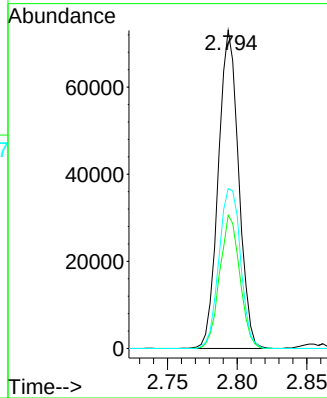
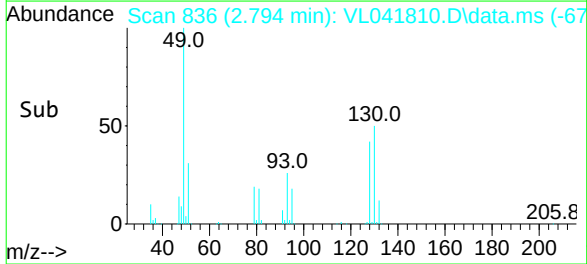
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 49 Resp: 74135
Ion Ratio Lower Upper
49 100
128 41.4 21.6 64.6
130 53.5 28.3 85.0

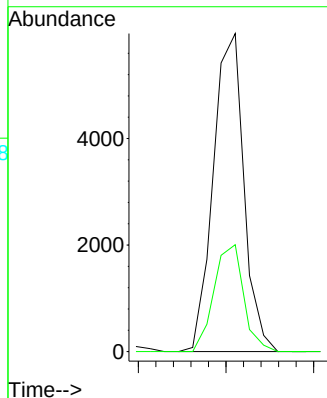
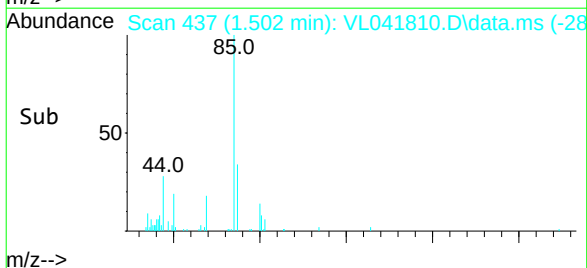
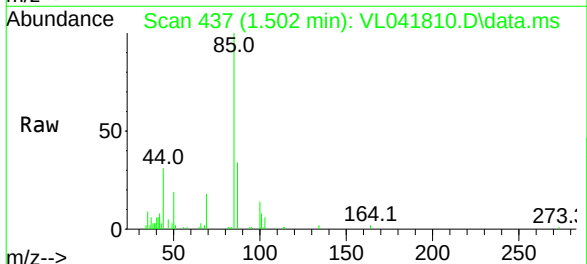
Manual Integrations
APPROVED

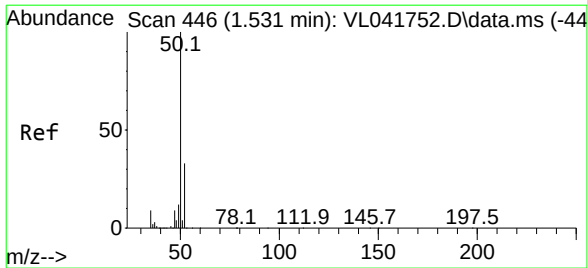
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#2
Dichlorodifluoromethane
Concen: 0.220 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

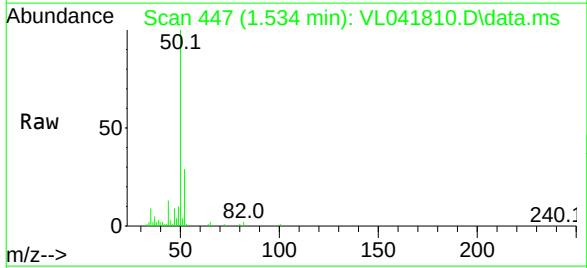
Tgt Ion: 85 Resp: 2899
Ion Ratio Lower Upper
85 100
87 33.6 24.5 36.7





#4
Chloromethane
Concen: 0.969 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

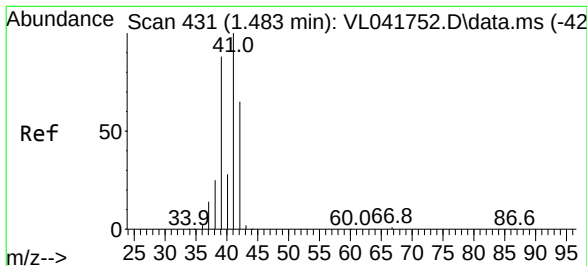
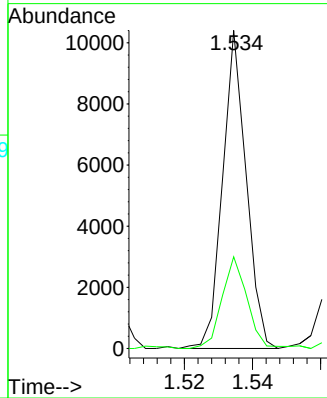
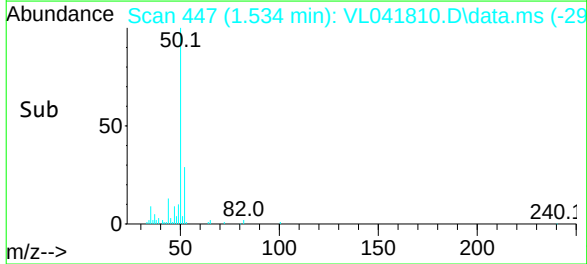
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 50 Resp: 4999
Ion Ratio Lower Upper
50 100
52 28.8 26.2 39.2

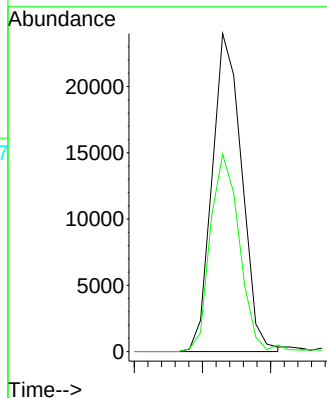
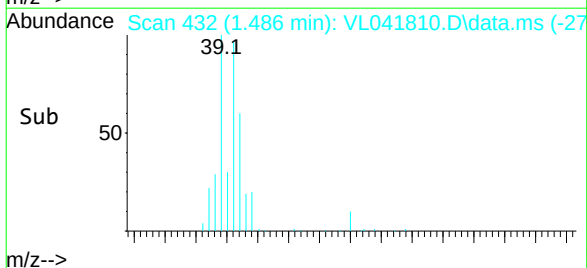
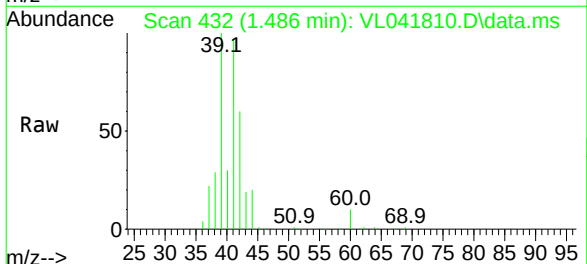
Manual Integrations
APPROVED

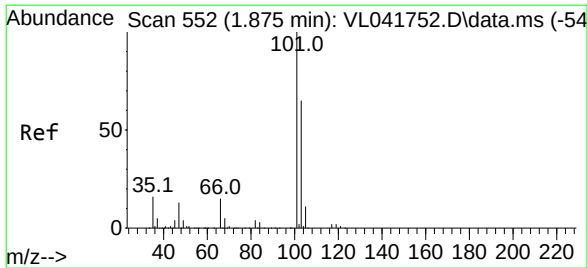
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#9
Propene
Concen: 2.756 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

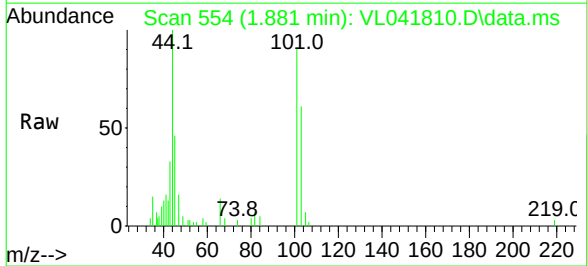
Tgt Ion: 41 Resp: 14442
Ion Ratio Lower Upper
41 100
42 62.6 52.4 78.6





#11
Trichlorofluoromethane
Concen: 0.097 ppbv
RT: 1.881 min Scan# 552
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

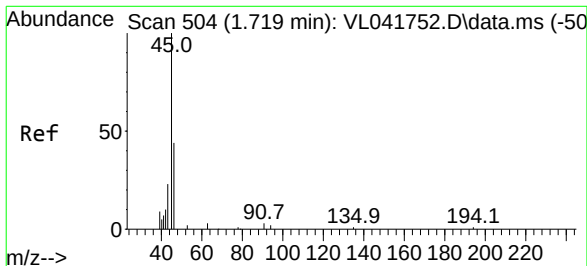
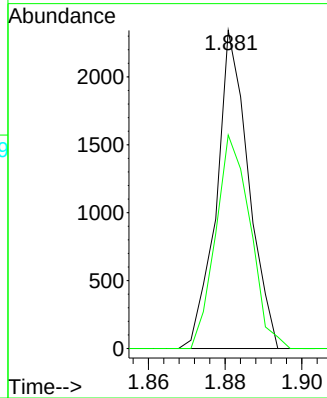
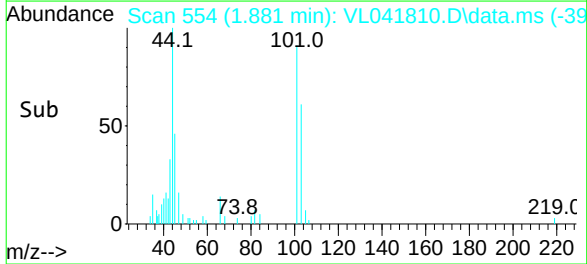
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 101 Resp: 1359
Ion Ratio Lower Upper
101 100
103 67.1 51.8 77.8

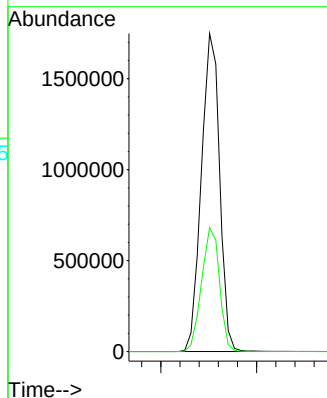
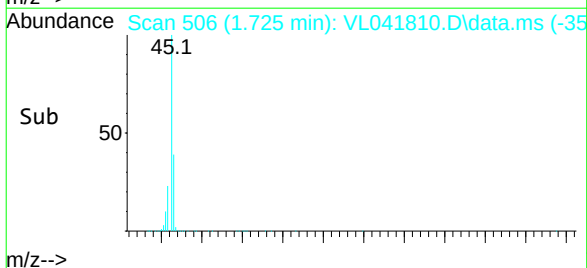
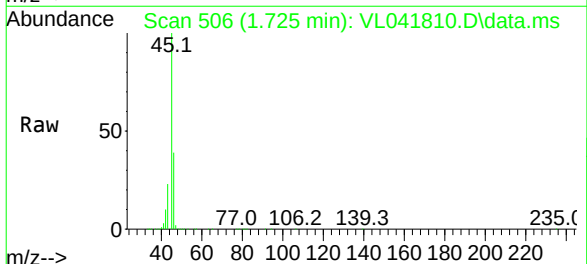
Manual Integrations
APPROVED

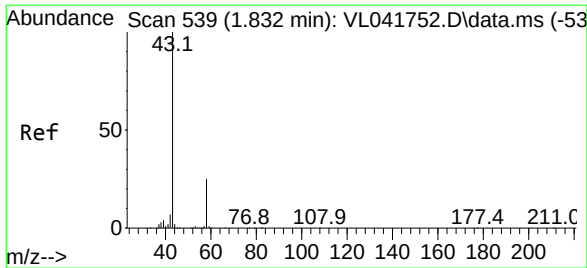
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#13
Ethanol
Concen: 2668.289 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

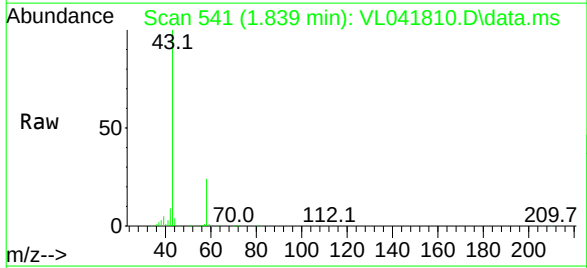
Tgt Ion: 45 Resp: 1157777
Ion Ratio Lower Upper
45 100
46 38.4 16.4 65.8





#15
Acetone
Concen: 10.353 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

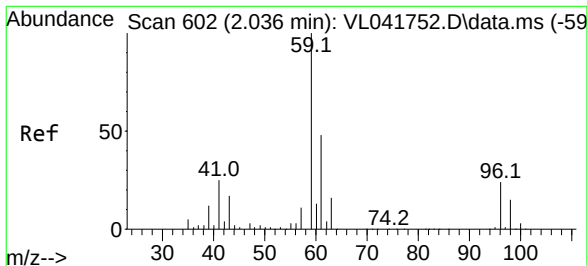
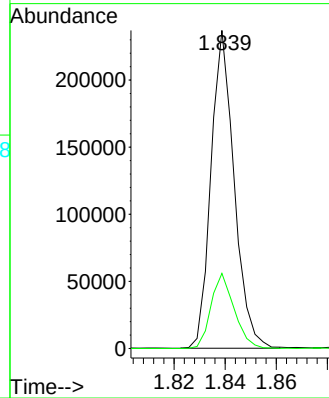
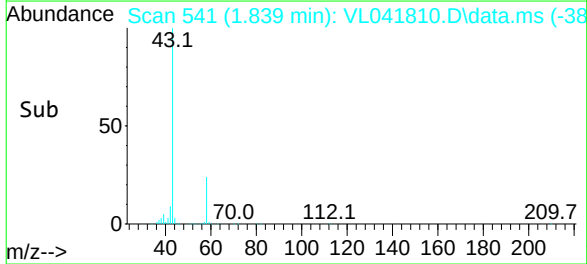
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 43 Resp: 149341
Ion Ratio Lower Upper
43 100
58 23.8 19.7 29.5

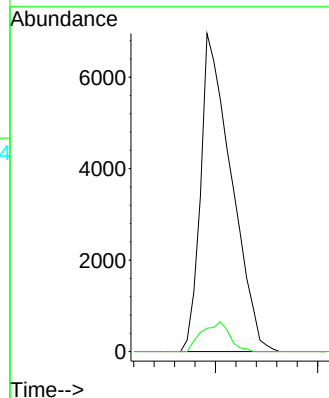
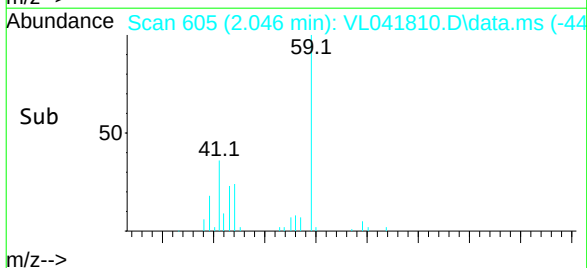
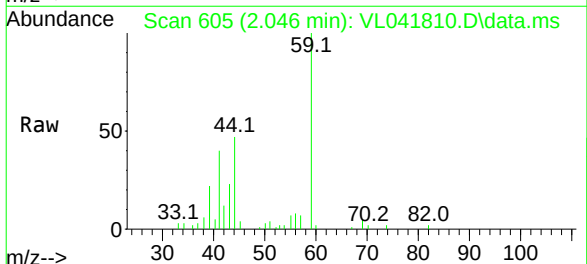
Manual Integrations
APPROVED

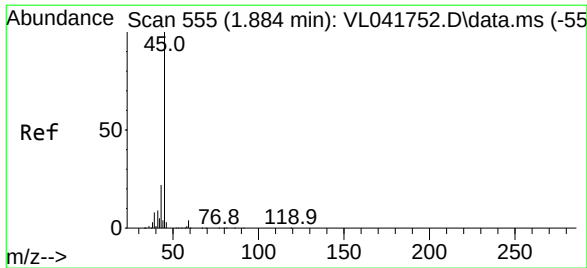
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#17
tert-Butyl alcohol
Concen: 0.507 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 59 Resp: 7260
Ion Ratio Lower Upper
59 100
57 8.4 8.6 13.0#





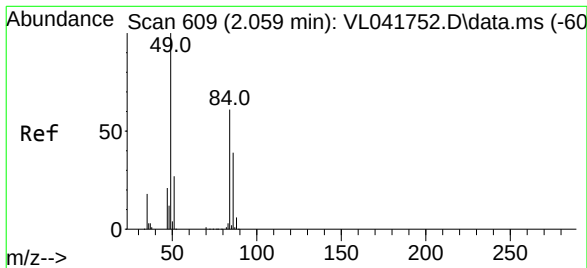
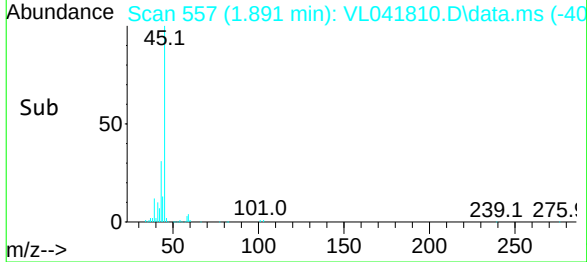
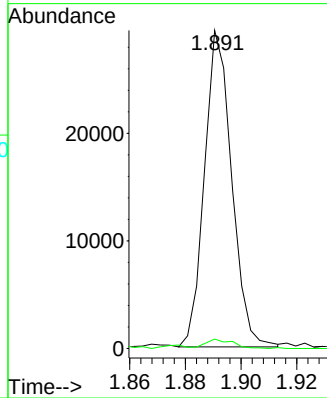
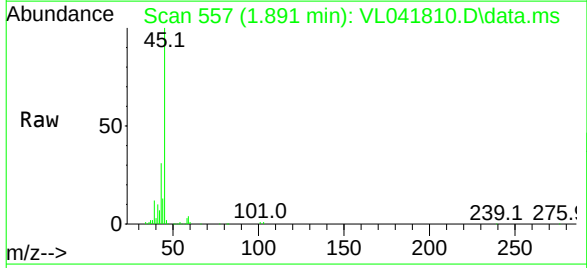
#19
Isopropyl Alcohol
Concen: 2.311 ppbv
RT: 1.891 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

Tgt Ion: 45 Resp: 20001
Ion Ratio Lower Upper
45 100
58 177.5 33.3 49.9#

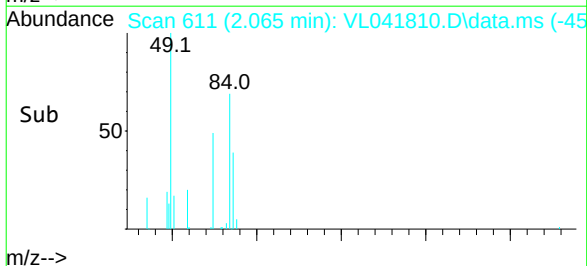
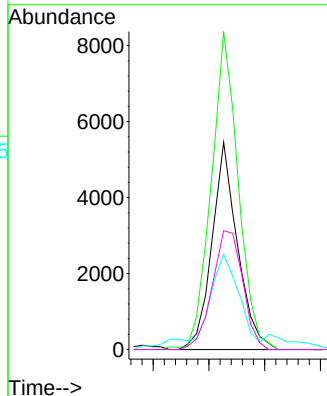
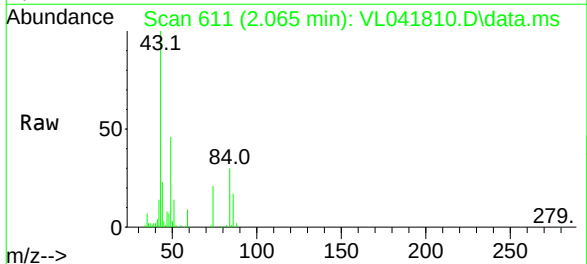
Manual Integrations
APPROVED

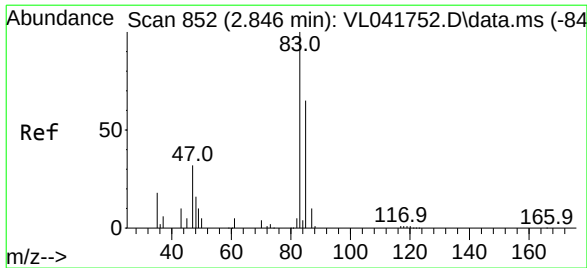
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#20
Methylene Chloride
Concen: 0.847 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 84 Resp: 3482
Ion Ratio Lower Upper
84 100
49 153.4 132.6 198.8
51 41.2 37.6 56.4
86 57.3 51.4 77.0





#29

Chloroform

Concen: 0.647 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

Tgt Ion: 83 Resp: 10038

Ion Ratio Lower Upper

83 100

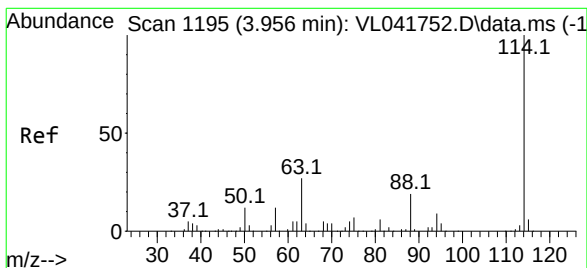
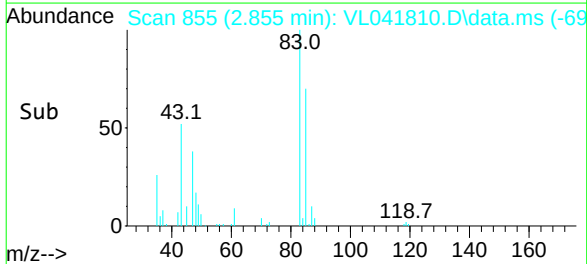
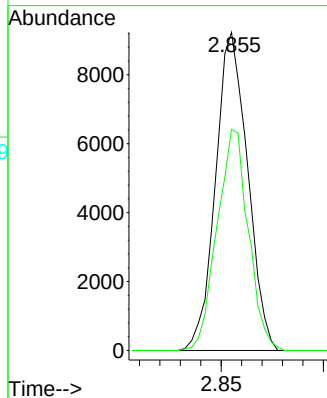
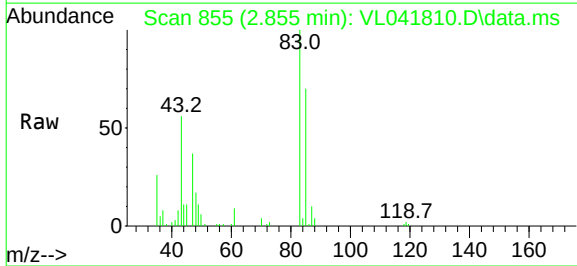
85 69.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. 0.016 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

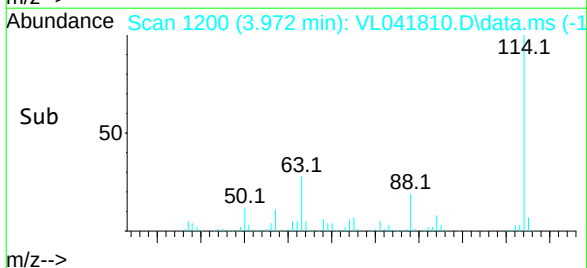
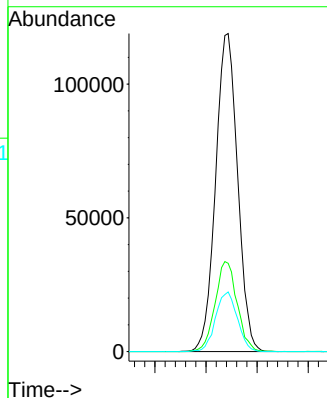
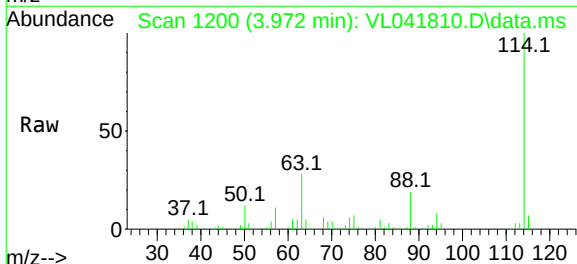
Tgt Ion:114 Resp: 177633

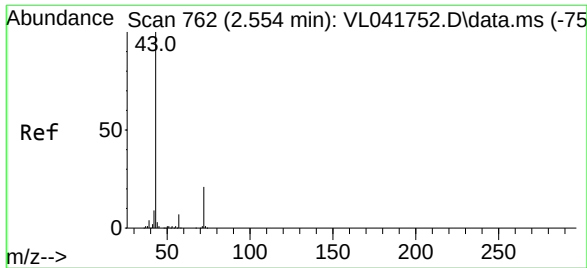
Ion Ratio Lower Upper

114 100

63 28.3 21.8 32.8

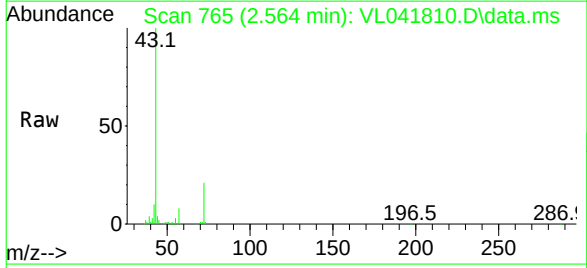
88 18.6 14.8 22.2





#34
2-Butanone
Concen: 2.058 ppbv
RT: 2.564 min Scan# 762
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

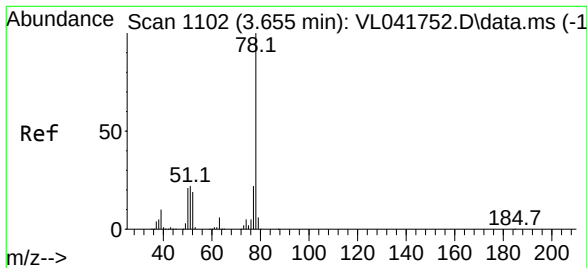
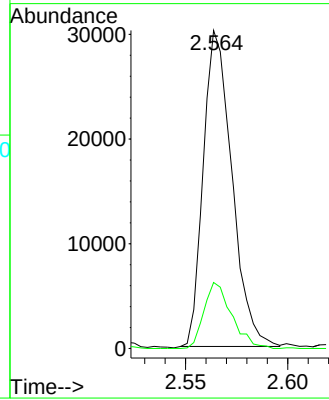
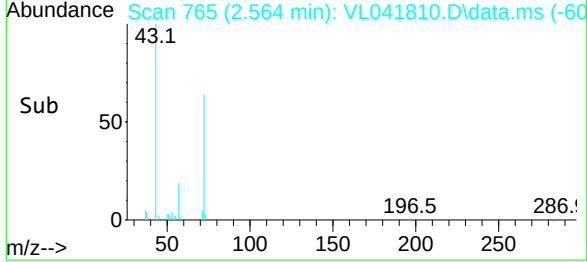
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 43 Resp: 29410
Ion Ratio Lower Upper
43 100
72 20.3 16.8 25.2

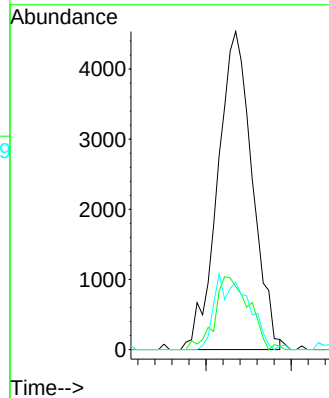
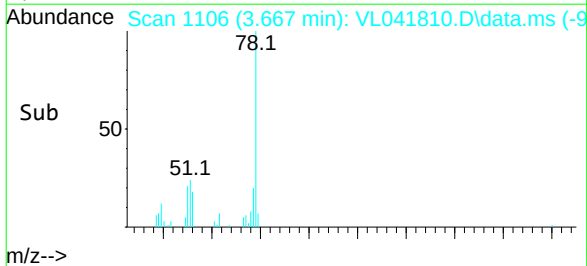
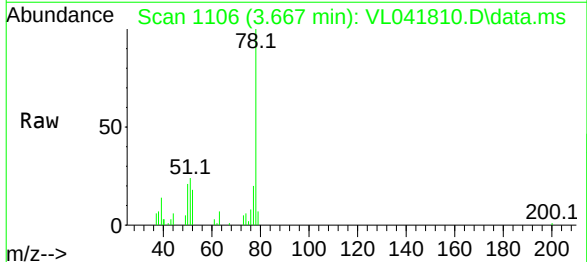
Manual Integrations
APPROVED

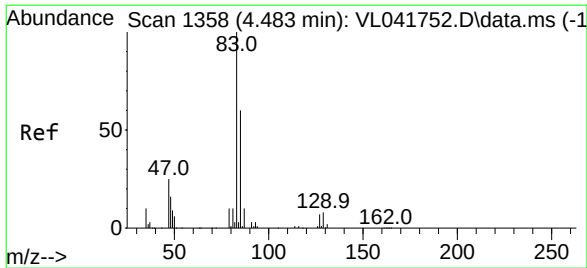
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#36
Benzene
Concen: 0.348 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

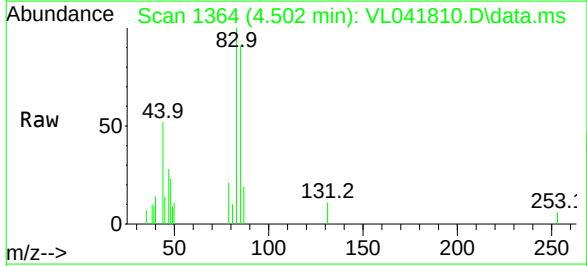
Tgt Ion: 78 Resp: 6389
Ion Ratio Lower Upper
78 100
77 19.8 17.8 26.6
50 21.2 17.2 25.8





#42
Bromodichloromethane
Concen: 0.129 ppbv
RT: 4.502 min Scan# 1358
Delta R.T. 0.019 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

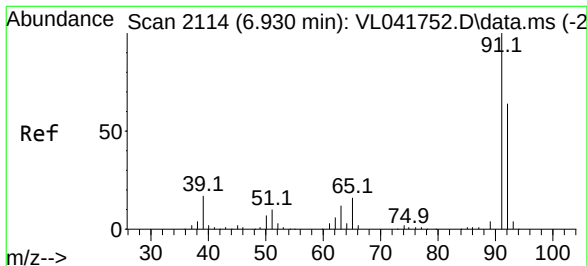
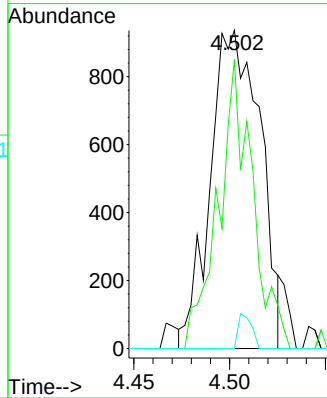
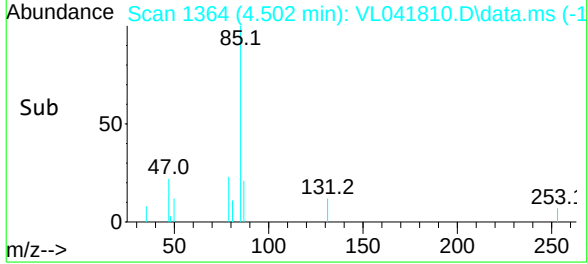
Instrument : MSVOA_1
ClientSampleId : C0AC1DL



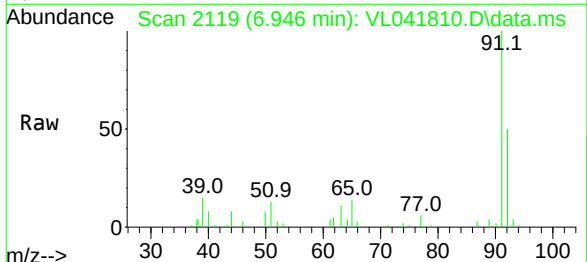
Tgt Ion: 83 Resp: 1698
Ion Ratio Lower Upper
83 100
85 96.6 48.0 72.0#
127 0.0 5.8 8.8#

Manual Integrations
APPROVED

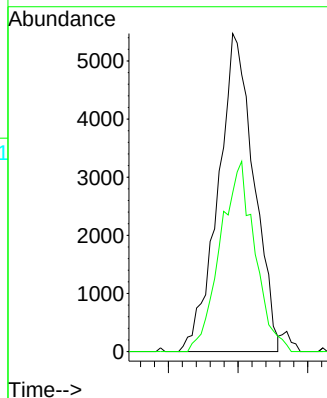
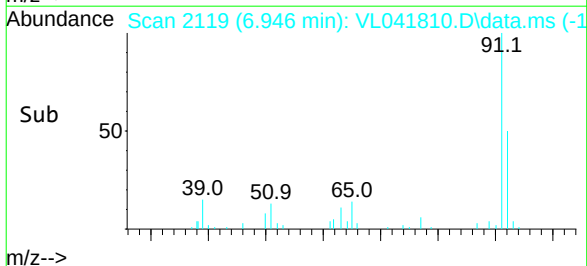
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

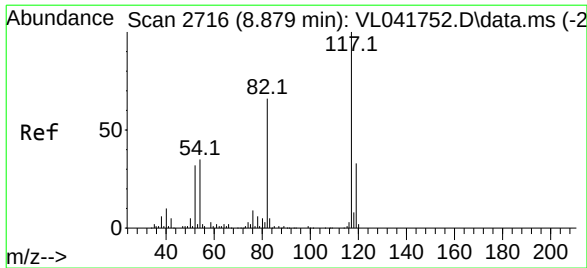


#53
Toluene
Concen: 0.468 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11



Tgt Ion: 91 Resp: 9756
Ion Ratio Lower Upper
91 100
92 57.8 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2716

Delta R.T. 0.013 min

Lab File: VL041810.D

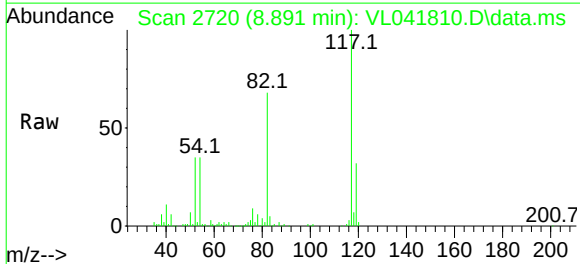
Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

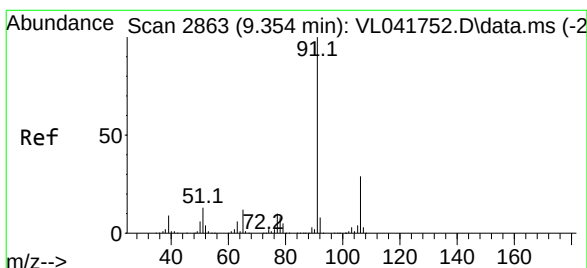
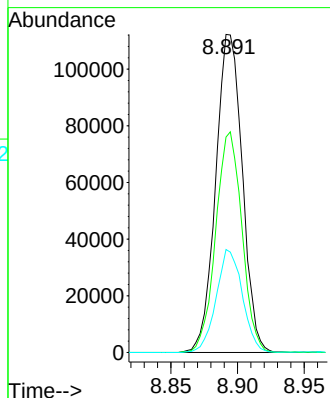
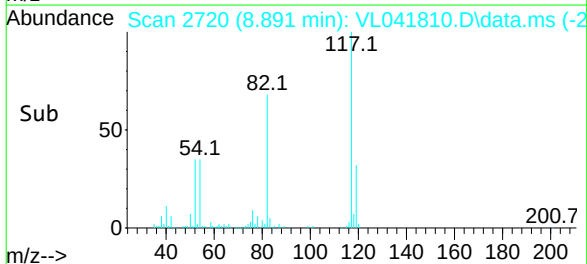


Tgt Ion:	117	Resp:	156162
Ion	Ratio	Lower	Upper
117	100		
82	68.2	53.8	80.8
119	31.8	26.7	40.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#58

Ethyl Benzene

Concen: 0.120 ppbv

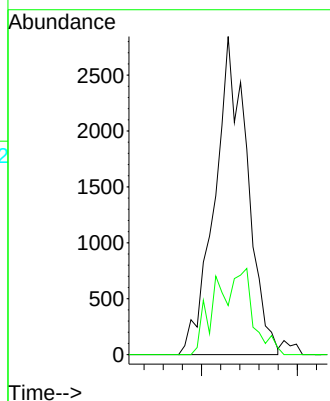
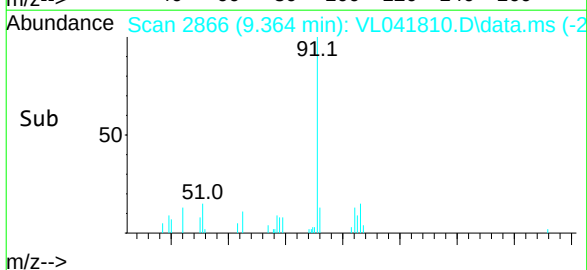
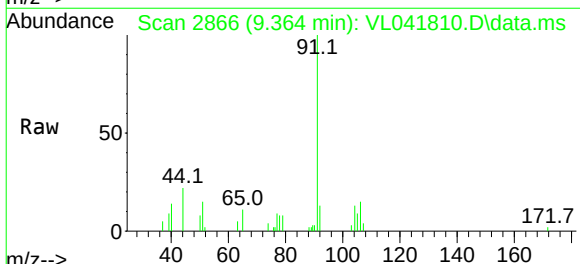
RT: 9.364 min Scan# 2866

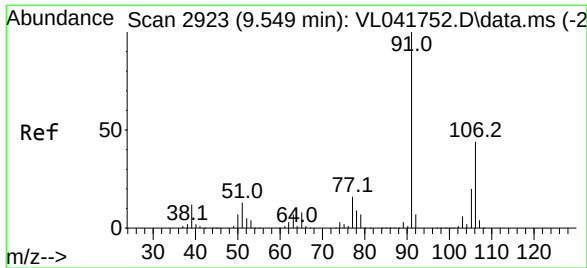
Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

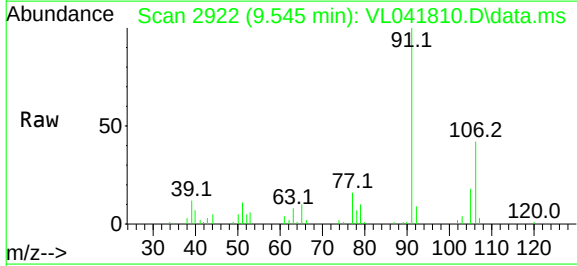
Tgt Ion:	91	Resp:	3369
Ion	Ratio	Lower	Upper
91	100		
106	15.4	23.5	35.3





#59
m/p-Xylene
Concen: 0.604 ppbv
RT: 9.545 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

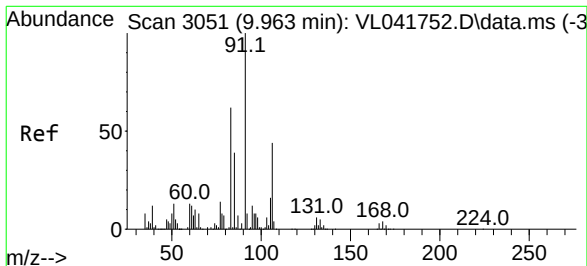
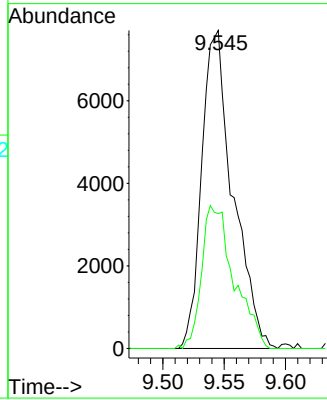
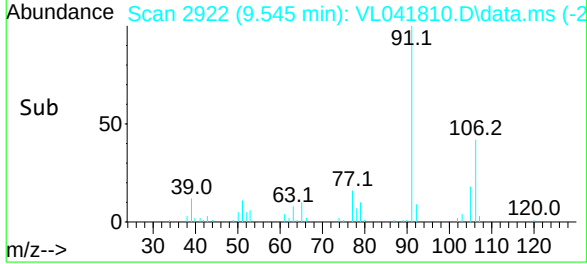
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL



Tgt Ion: 91 Resp: 13654
Ion Ratio Lower Upper
91 100
106 46.6 0.0 0.0#

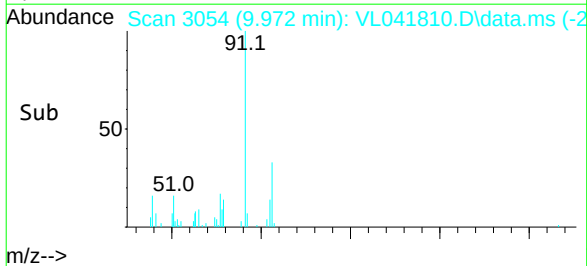
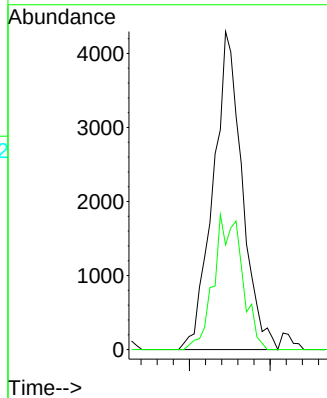
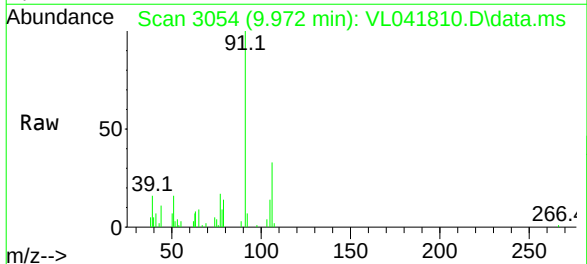
Manual Integrations
APPROVED

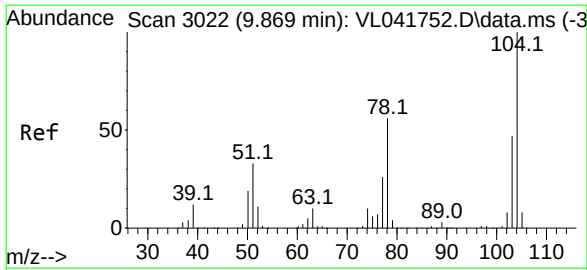
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#60
o-Xylene
Concen: 0.236 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 91 Resp: 5359
Ion Ratio Lower Upper
91 100
106 41.5 21.1 63.4





#61

Styrene

Concen: 0.181 ppbv m

RT: 9.888 min Scan# 3022

Delta R.T. 0.019 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

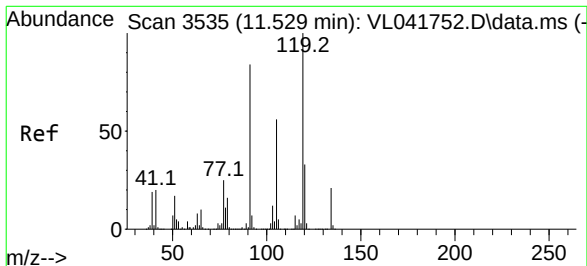
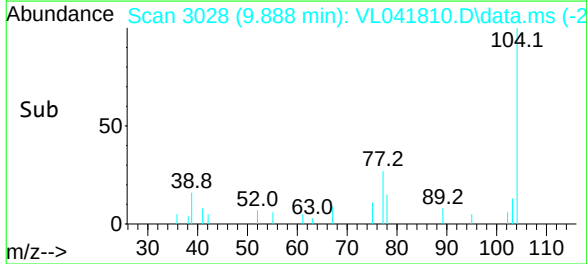
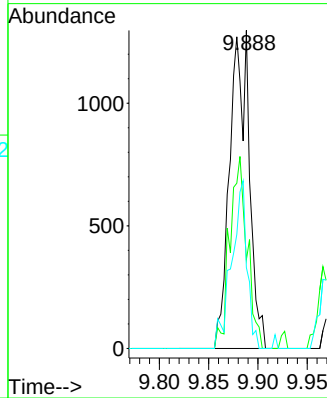
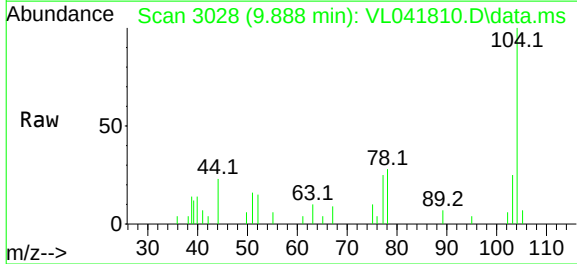
C0AC1DL

Tgt Ion:	104	Resp:	1773
Ion Ratio	Lower	Upper	
104	100		
78	53.9	43.8	65.6
103	42.6	37.8	56.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#65

tert-Butylbenzene

Concen: 0.097 ppbv

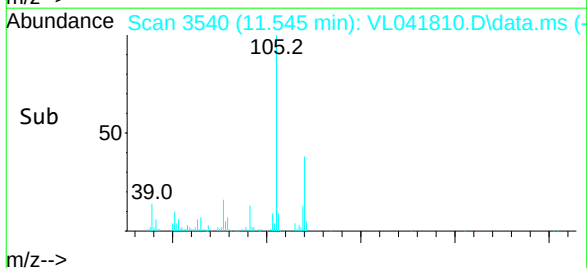
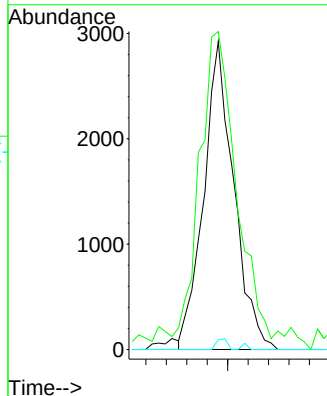
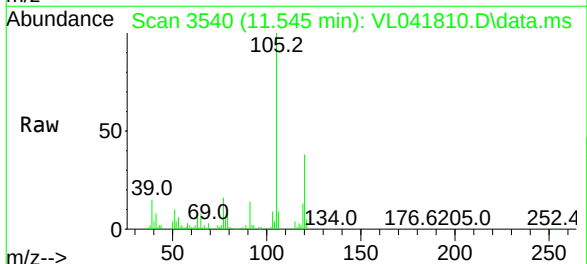
RT: 11.545 min Scan# 3540

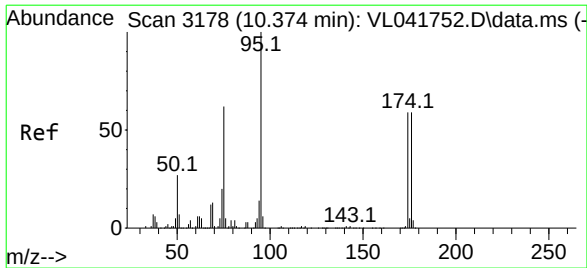
Delta R.T. 0.016 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion:	119	Resp:	2994
Ion Ratio	Lower	Upper	
119	100		
91	130.8	67.0	100.4#
134	1.7	16.5	24.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.659 ppbv

RT: 10.387 min Scan# 3178

Delta R.T. 0.013 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

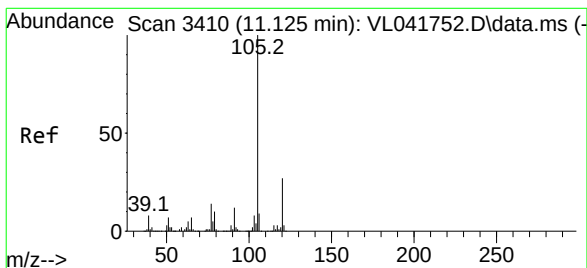
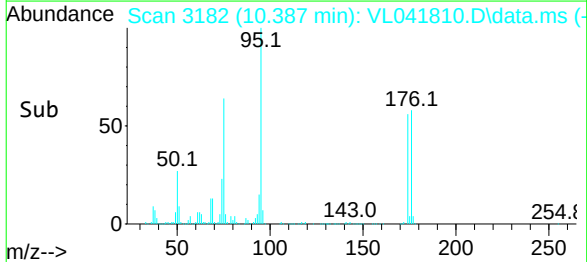
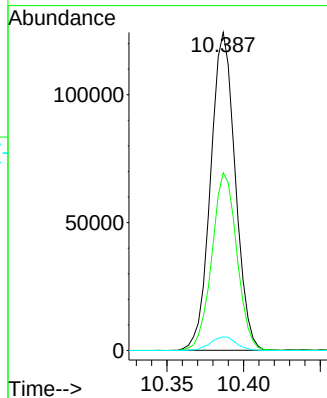
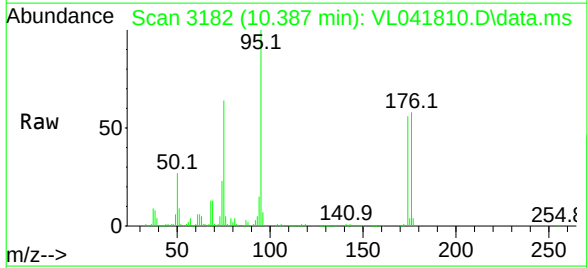
C0AC1DL

Tgt Ion:	95	Resp:	138713
Ion Ratio	Lower	Upper	
95	100		
174	56.8	47.6	71.4
175	4.5	3.7	5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#72

4-Ethyltoluene

Concen: 0.175 ppbv

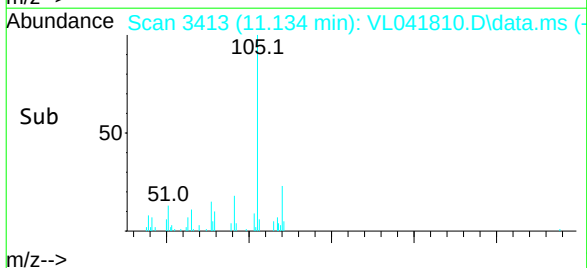
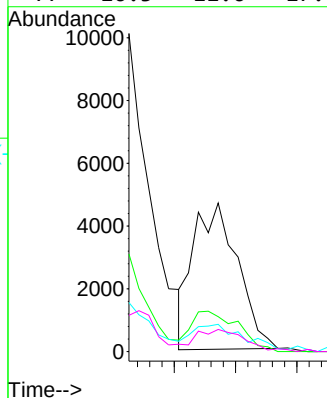
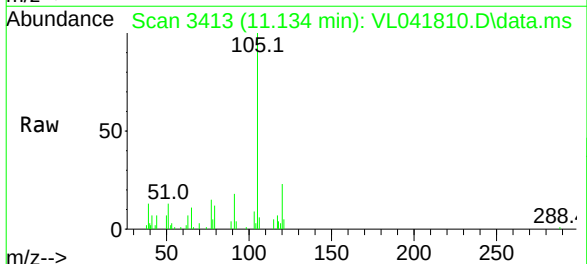
RT: 11.134 min Scan# 3413

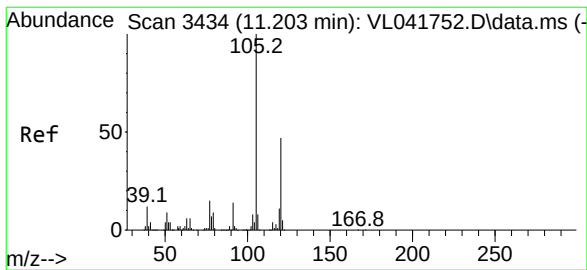
Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion:	105	Resp:	4673
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.3	34.9#
91	0.0	10.9	16.3#
77	16.3	11.6	17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.210 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

Tgt Ion:105 Resp: 4667

Ion Ratio Lower Upper

105 100

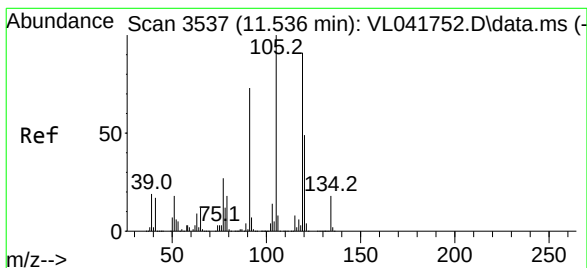
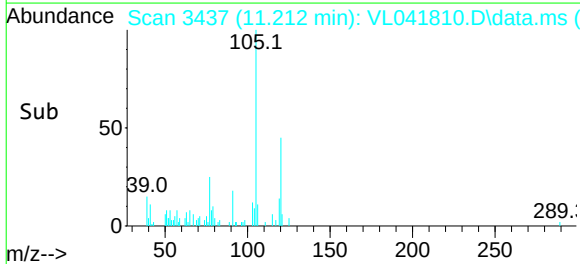
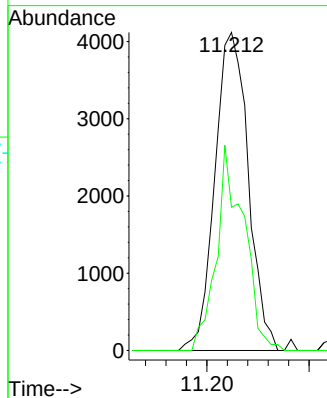
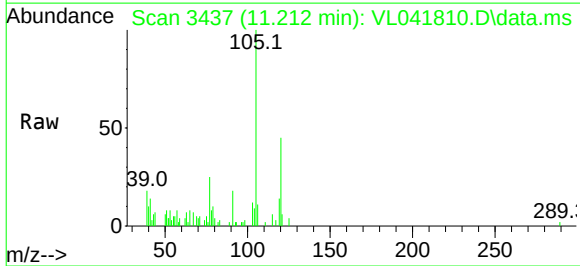
120 51.3 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.961 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion:105 Resp: 22943

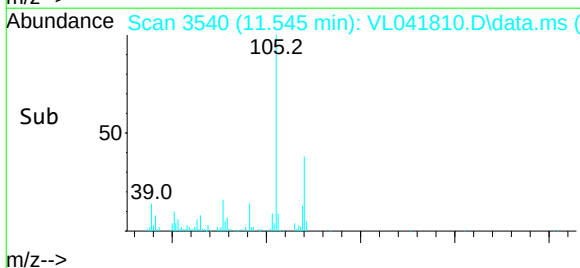
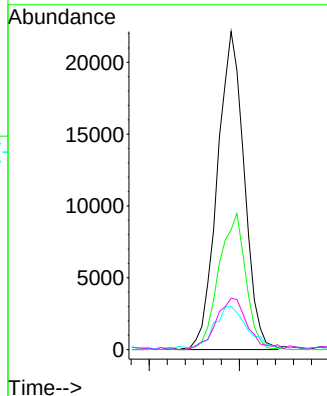
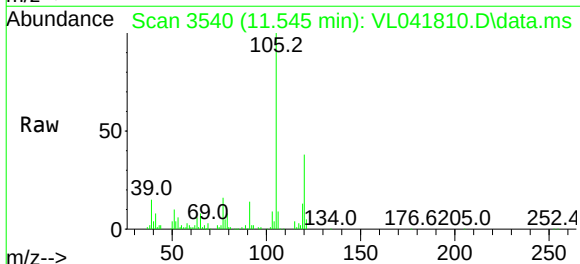
Ion Ratio Lower Upper

105 100

120 37.7 39.0 58.4#

91 12.9 58.1 87.1#

77 16.2 21.8 32.8#





CALIBRATION SUMMARY

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

Method File : VL121624AIR.M

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

Last Update : Thu Dec 19 07:32:09 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041757.D 0.1 =VL041756.D 0.5 =VL041755.D 1 =VL041754.D 2 =VL041753.D 10 =VL041752.D 15 =VL041758.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.886	1.927	1.840	1.682	1.562	1.779	8.61
3) Chlorodifluoro...			1.679	1.697	1.653	1.566	1.559	1.631	3.94
4) Chloromethane			0.737	0.729	0.736	0.630	0.650	0.696	7.48
5) T Vinyl Chloride	0.909	0.673	0.682	0.695	0.689	0.625	0.637	0.701	13.60
6) T Bromomethane			0.343	0.363	0.343	0.295	0.310	0.331	8.32
7) Chloroethane			0.282	0.267	0.297	0.254	0.262	0.272	6.26
8) T Dichlorotetra...			1.712	1.659	1.616	1.461	1.516	1.593	6.49
9) T Propene			0.788	0.734	0.750	0.633	0.629	0.707	10.16
10) T Heptane			1.950	1.821	1.875	1.705	1.726	1.816	5.64
11) T Trichlorofluor...			1.981	1.915	1.943	1.791	1.820	1.890	4.31
12) T 1,1,2-Trichlor...			1.491	1.504	1.466	1.341	1.386	1.437	4.92
13) Ethanol			0.081	0.080	0.059	0.036	0.037	0.059	37.17
14) T Bromoethene			0.509	0.477	0.484	0.474	0.482	0.485	2.84
15) T Acetone			2.474	2.284	2.047	1.461	1.462	1.946	24.00
16) T 1,3-Butadiene			0.891	0.779	0.777	0.685	0.699	0.766	10.74
17) tert-Butyl alc...			1.999	2.024	1.975	1.833	1.819	1.930	5.00
18) T 1,1-Dichloroet...			0.608	0.628	0.622	0.565	0.591	0.603	4.20
19) T Isopropyl Alcohol			1.709	1.320	1.107	0.860	0.841	1.167	30.91
20) T Methylene Chlo...			0.653	0.587	0.562	0.477	0.495	0.555	12.88
21) T Allyl Chloride			1.008	1.126	1.092	1.012	1.038	1.055	4.93
22) T trans-1,2-Dich...			0.749	0.698	0.697	0.640	0.665	0.690	5.96
23) T Vinyl Acetate			0.781	0.811	1.309	0.790	0.826	0.903	25.15
24) T 1,1-Dichloroet...			1.458	1.459	1.414	1.311	1.340	1.396	4.89
25) T Ethyl Acetate			3.618	3.813	3.745	3.430	3.492	3.620	4.48
26) T Hexane			1.423	1.403	1.423	1.303	1.316	1.374	4.32
27) T Carbon Disulfide			1.024	1.237	1.202	1.346	1.380	1.238	11.34
28) T Methyl tert-Bu...			1.033	1.295	1.115	1.098	1.030	1.114	9.69
29) T Chloroform			2.155	2.182	2.138	1.969	2.022	2.093	4.41
30) T Cyclohexane			1.217	1.187	1.215	1.096	1.130	1.169	4.62
31) T cis-1,2-Dichlo...			1.430	1.519	1.460	1.331	1.358	1.419	5.37
32) T 1,1,1-Trichlor...	2.218	2.113	2.158	2.186	2.101	2.028	2.091	2.128	3.03

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.869	0.820	0.860	0.736	0.737	0.805	8.05
35) T Carbon Tetrach...	0.671	0.657	0.634	0.716	0.758	0.756	0.777	0.710	7.94
36) T Benzene			1.079	1.080	1.059	0.975	0.979	1.034	5.16
37) T 1,2-Dichloroet...			0.690	0.642	0.650	0.608	0.628	0.644	4.71
38) T Trichloroethene	0.551	0.469	0.408	0.437	0.428	0.388	0.393	0.439	12.92
39) T 1,2-Dichloropr...			0.382	0.395	0.388	0.353	0.353	0.374	5.36

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL121624AIR.M										
40)	T	1,4-Dioxane		0.212	0.181	0.187	0.167	0.167	0.183	10.12
41)	T	Tetrahydrofuran		0.455	0.488	0.455	0.427	0.428	0.451	5.52
42)	T	Bromodichlorom...		0.664	0.735	0.730	0.777	0.796	0.740	6.88
43)		Methyl Methacr...		0.372	0.394	0.406	0.395	0.404	0.394	3.38
44)	T	2,2,4-Trimethy...		1.826	1.809	1.842	1.674	1.681	1.767	4.64
45)	T	t-1,3-Dichloro...		0.382	0.393	0.407	0.423	0.434	0.408	5.25
46)	T	cis-1,3-Dichlo...		0.500	0.493	0.522	0.533	0.540	0.518	3.96
47)	T	1,1,2-Trichlor...		0.408	0.402	0.406	0.368	0.371	0.391	5.06
48)	T	Dibromochlorom...		0.433	0.493	0.540	0.593	0.609	0.534	13.58
49)	T	Bromoform		0.328	0.395	0.443	0.498	0.519	0.437	17.80
50)	T	4-Methyl-2-Pen...		1.062	1.130	1.149	1.060	1.076	1.095	3.75
51)	T	2-Hexanone		0.831	0.923	0.953	0.857	0.876	0.888	5.59
52)	T	Tetrachloroethene	0.555 0.333	0.346	0.395	0.372	0.343	0.351	0.385	20.18
53)	T	Toluene		1.183	1.207	1.215	1.123	1.136	1.173	3.54
54)	T	1,2-Dibromoethane	0.565	0.540	0.545	0.542	0.512	0.527	0.538	3.32
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.487	0.533	0.568	0.532	0.532	0.530	5.43
57)	T	Chlorobenzene		1.053	1.078	1.088	0.951	0.946	1.023	6.78
58)	T	Ethyl Benzene		1.694	1.834	1.931	1.774	1.769	1.800	4.90
59)	T	m/p-Xylene		1.423	1.467	1.522	1.417	1.410	1.448	3.26
60)	T	o-Xylene		1.382	1.492	1.560	1.421	1.404	1.452	5.04
61)	T	Styrene		0.544	0.598	0.636	0.674	0.687	0.628	9.27
62)		Isopropylbenzene		2.138	2.234	2.293	2.135	2.105	2.181	3.64
63)	T	1,1,2,2-Tetrac...	0.979 0.936	0.953	0.909	0.907	0.841	0.835	0.909	5.96
64)		n-propylbenzene		0.520	0.581	0.584	0.535	0.537	0.551	5.28
65)		tert-Butylbenzene		1.964	2.027	2.100	1.892	1.856	1.968	5.04
66)	T	Benzyl Chloride		0.169	0.155	0.165	0.190	0.188	0.173	8.70
67)		sec-Butylbenzene		2.682	2.774	2.926	2.638	2.595	2.723	4.84
68)	S	1-Bromo-4-Fluo...	0.827 0.829	0.834	0.819	0.844	0.848	0.833	0.833	1.18
69)		p-Isopropyltol...		2.149	2.237	2.416	2.223	2.195	2.244	4.54
70)		n-Butylbenzene		1.977	2.184	2.300	2.198	2.183	2.168	5.43
71)		2-Chlorotoluene		1.640	1.698	1.760	1.616	1.609	1.665	3.84
72)	T	4-Ethyltoluene		1.681	1.659	1.794	1.731	1.703	1.713	3.06
73)	T	1,3,5-Trimethy...		1.324	1.378	1.483	1.465	1.458	1.422	4.78
74)	T	1,2,4-Trimethy...		1.396	1.519	1.619	1.566	1.543	1.529	5.41
75)	T	1,3-Dichlorobe...		1.023	1.015	0.994	0.929	0.912	0.975	5.22
76)	T	1,4-Dichlorobe...		0.996	0.972	0.992	0.931	0.924	0.963	3.50
77)	T	1,2-Dichlorobe...		1.009	0.978	0.983	0.865	0.855	0.938	7.68
78)	T	Hexachloro-1,3...		0.786	0.756	0.773	0.586	0.575	0.695	15.13
79)	T	Naphthalene	0.754	0.928	1.046	1.154	1.258	1.251	1.065	18.57
80)	T	Naphthalene,2- ...		0.094	0.093	0.137	0.651	0.673	0.329	92.27
81)	T	1,2,4-Trichlor...		0.536	0.553	0.592	0.621	0.608	0.582	6.25

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:11:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	68599	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	183786	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	163333	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 138451 10.172 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.496	85	115385	9.453 ppbv	100
3) Chlorodifluoromethane	1.473	51	107429	9.603 ppbv	100
4) Chloromethane	1.531	50	43215	9.049 ppbv	100
5) Vinyl Chloride	1.580	62	42849	8.905 ppbv	100
6) Bromomethane	1.667	94	20252	8.919 ppbv	100
7) Chloroethane	1.703	64	17403	9.311 ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	100191	9.171 ppbv	100
9) Propene	1.483	41	43440	8.959 ppbv	100
10) Heptane	4.979	43	116969	9.391 ppbv	100
11) Trichlorofluoromethane	1.875	101	122831	9.474 ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	91977	9.327 ppbv	100
13) Ethanol	1.719	45	2484	6.161 ppbv	100
14) Bromoethene	1.781	108	32528	9.770 ppbv	100
15) Acetone	1.832	43	100229	7.509 ppbv	100
16) 1,3-Butadiene	1.606	39	46989	8.940 ppbv	100
17) tert-Butyl alcohol	2.036	59	125757	9.497 ppbv	100
18) 1,1-Dichloroethene	2.033	96	38775	9.379 ppbv	100
19) Isopropyl Alcohol	1.884	45	59026	7.370 ppbv	100
20) Methylene Chloride	2.059	84	32734	8.601 ppbv	100
21) Allyl Chloride	2.095	41	69406	9.588 ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	43898	9.276 ppbv	100
23) Vinyl Acetate	2.457	43	54227	9.350 ppbv	100
24) 1,1-Dichloroethane	2.405	63	89912	9.386 ppbv	100
25) Ethyl Acetate	2.833	43	235305	9.432 ppbv	100
26) Hexane	2.823	57	89385	9.486 ppbv	100
27) Carbon Disulfide	2.150	76	92329	10.873 ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	75330	9.854 ppbv	100
29) Chloroform	2.846	83	135099	9.408 ppbv	100
30) Cyclohexane	3.855	84	75156	9.374 ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	91276	9.374 ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	139102	9.733 ppbv	100
34) 2-Butanone	2.554	43	135331	9.153 ppbv	100
35) Carbon Tetrachloride	3.758	117	138952	10.650 ppbv	100
36) Benzene	3.655	78	179134	9.423 ppbv	100
37) 1,2-Dichloroethane	3.215	62	111770	9.449 ppbv	100
38) Trichloroethene	4.545	130	71297	8.907 ppbv	100
39) 1,2-Dichloropropane	4.309	63	64789	9.423 ppbv	100
40) 1,4-Dioxane	4.580	88	30658	9.128 ppbv #	100
41) Tetrahydrofuran	3.049	42	78480	9.474 ppbv	100
42) Bromodichloromethane	4.483	83	142819	10.494 ppbv	100
43) Methyl Methacrylate	4.878	69	72578	10.020 ppbv	100
44) 2,2,4-Trimethylpentane	4.639	57	307748	9.479 ppbv	100
45) t-1,3-Dichloropropene	6.412	75	77752	10.378 ppbv	100

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 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:11:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

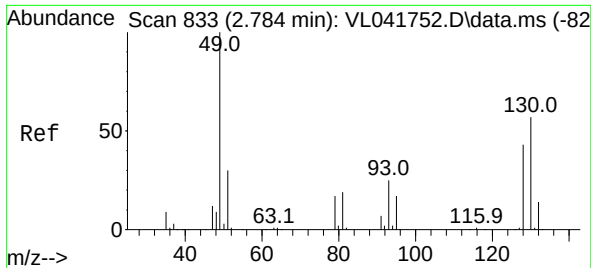
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	97992	10.303	ppbv	100
47) 1,1,2-Trichloroethane	6.577	97	67550	9.406	ppbv	100
48) Dibromochloromethane	7.383	129	108899	11.105	ppbv	100
49) Bromoform	9.481	173	91587	11.410	ppbv	100
50) 4-Methyl-2-Pentanone	5.749	43	194838	9.678	ppbv	100
51) 2-Hexanone	7.432	43	157473	9.650	ppbv	100
52) Tetrachloroethene	8.222	164	62989	8.901	ppbv	100
53) Toluene	6.930	91	206354	9.574	ppbv	100
54) 1,2-Dibromoethane	7.649	107	94016	9.501	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	86831	10.027	ppbv	100
57) Chlorobenzene	8.921	112	155349	9.295	ppbv	100
58) Ethyl Benzene	9.354	91	289734	9.853	ppbv	100
59) m/p-Xylene	9.549	91	462802m	19.568	ppbv	
60) o-Xylene	9.963	91	232101	9.789	ppbv	100
61) Styrene	9.869	104	110041	10.733	ppbv	100
62) Isopropylbenzene	10.539	105	348684	9.788	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	137363	9.255	ppbv	100
64) n-propylbenzene	10.989	120	87360	9.700	ppbv	100
65) tert-Butylbenzene	11.529	119	309036	9.615	ppbv	100
66) Benzyl Chloride	11.614	91	31039	10.954	ppbv	100
67) sec-Butylbenzene	11.769	105	430810	9.687	ppbv	100
69) p-Isopropyltoluene	11.924	119	363072	9.906	ppbv	100
70) n-Butylbenzene	12.280	91	358993	10.137	ppbv	100
71) 2-Chlorotoluene	10.902	91	264002	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	282698	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	239261	10.304	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	255780	10.244	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	151752	9.532	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	152099	9.671	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	141338	9.227	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	95751	8.431	ppbv	100
79) Naphthalene	13.514	128	205511	11.812	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	106311	19.755	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	101461	10.672	ppbv	100

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



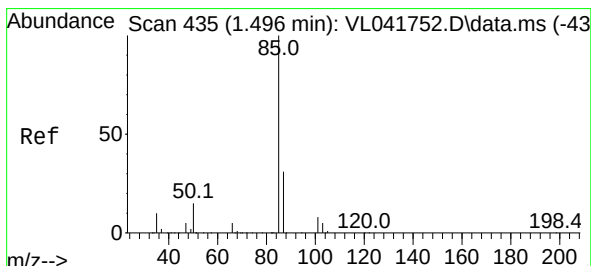
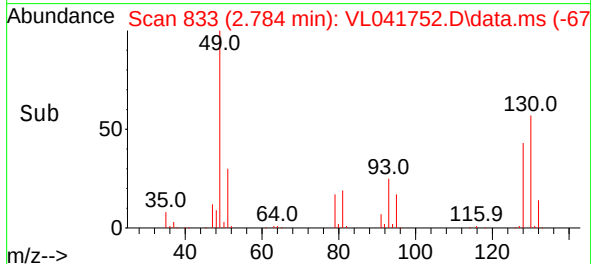
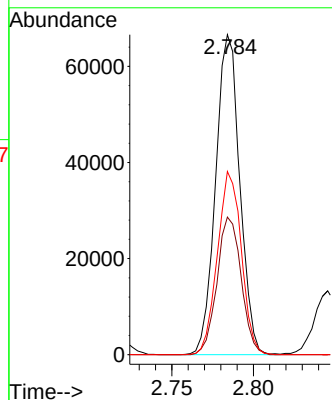
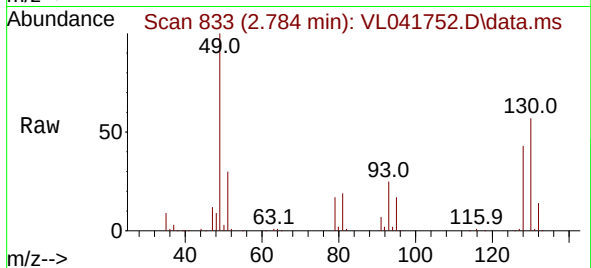
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 68599
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.6
130 56.7 28.3 85.0

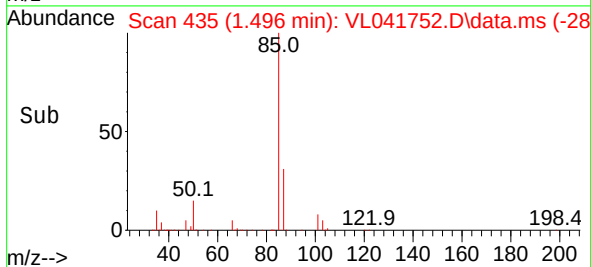
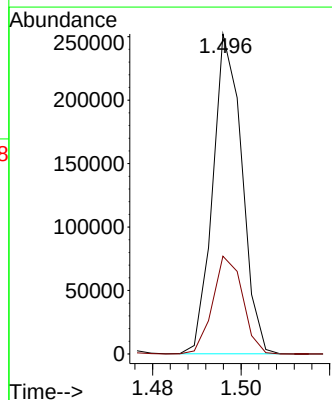
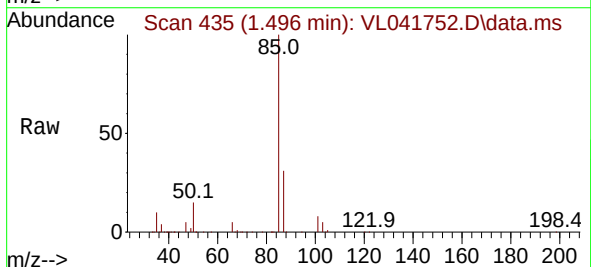
Manual Integrations
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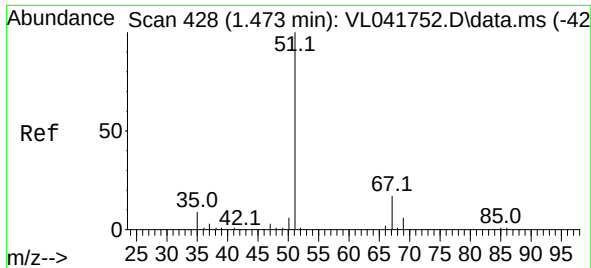
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#2
Dichlorodifluoromethane
Concen: 9.453 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 85 Resp: 115385
Ion Ratio Lower Upper
85 100
87 30.6 24.5 36.7





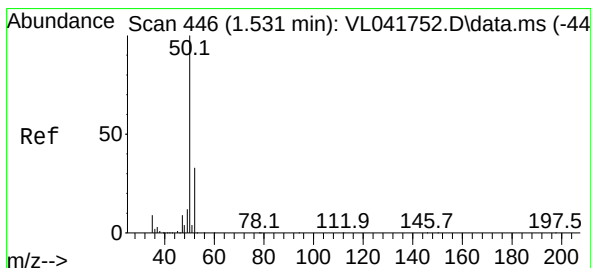
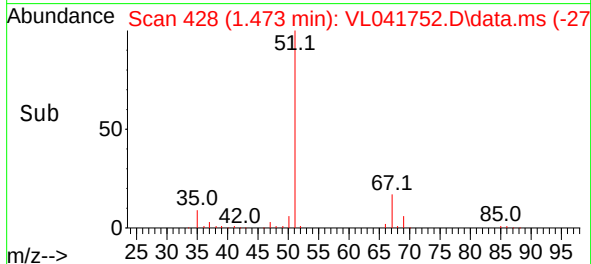
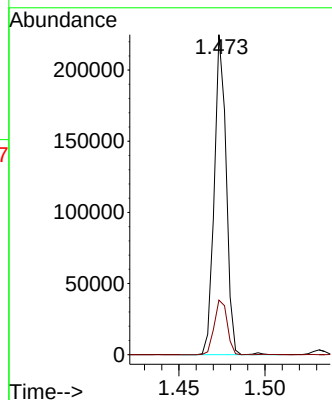
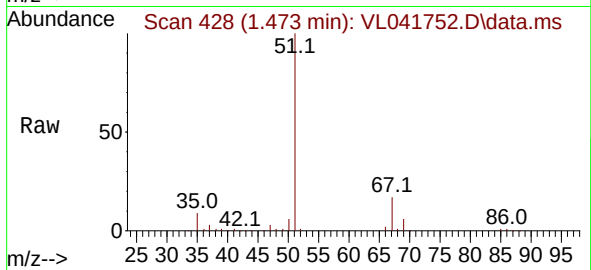
#3
Chlorodifluoromethane
Concen: 9.603 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 107429
Ion Ratio Lower Upper
51 100
67 18.7 15.0 22.4

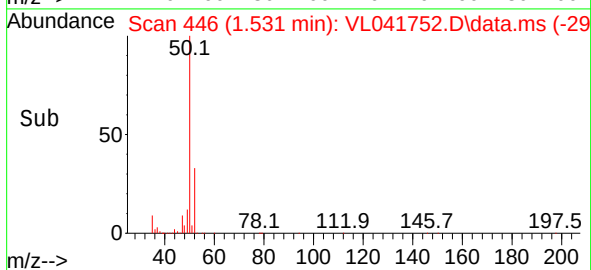
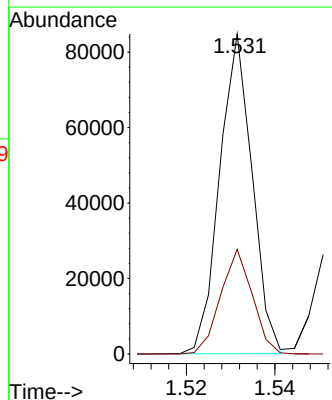
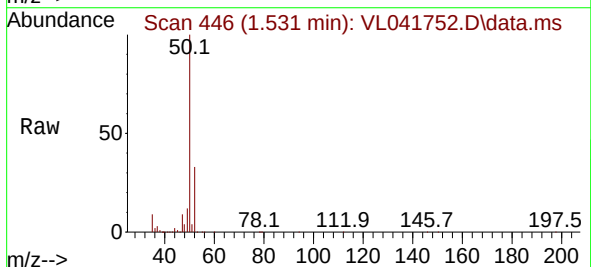
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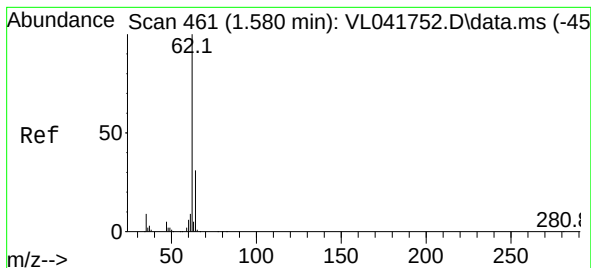
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 9.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 50 Resp: 43215
Ion Ratio Lower Upper
50 100
52 32.7 26.2 39.2





#5

Vinyl Chloride

Concen: 8.905 ppbv

RT: 1.580 min Scan# 461

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 42849

Ion Ratio Lower Upper

62 100

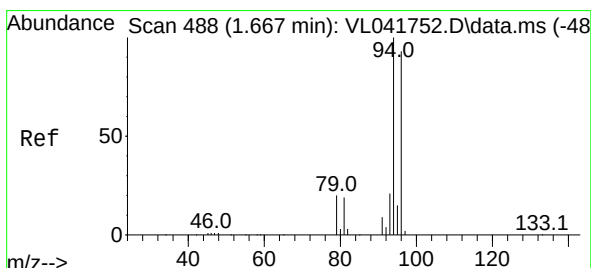
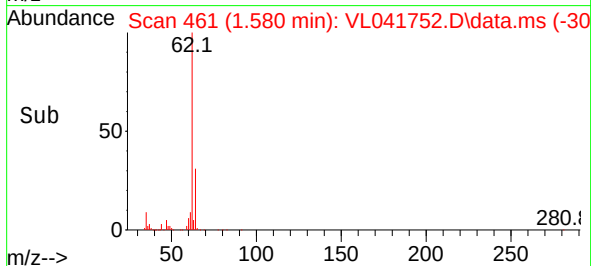
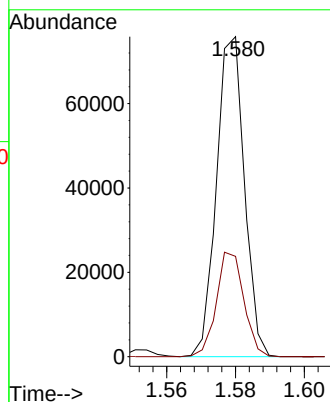
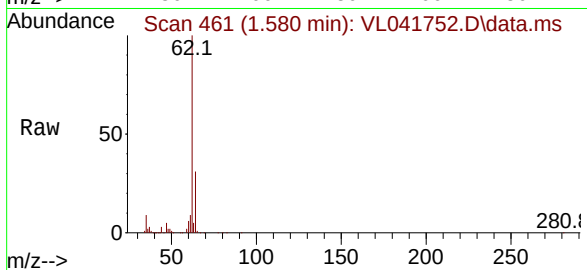
64 31.4 25.1 37.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#6

Bromomethane

Concen: 8.919 ppbv

RT: 1.667 min Scan# 488

Delta R.T. 0.000 min

Lab File: VL041752.D

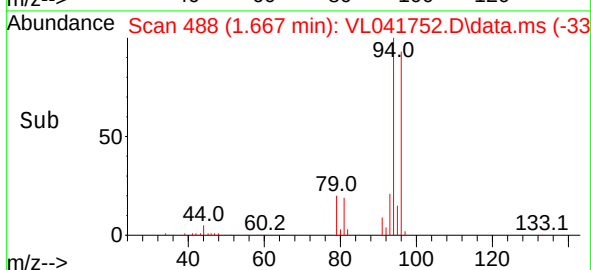
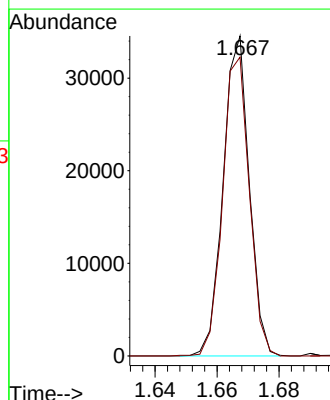
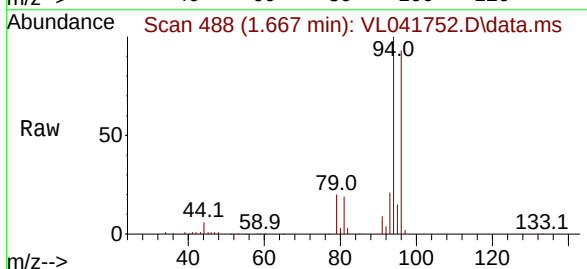
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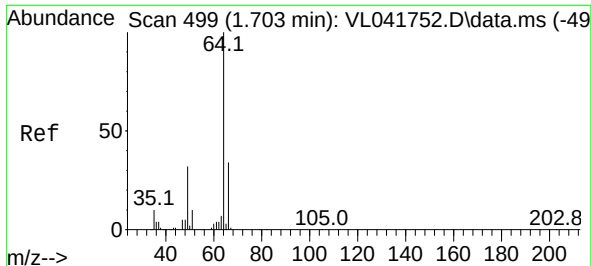
Tgt Ion: 94 Resp: 20252

Ion Ratio Lower Upper

94 100

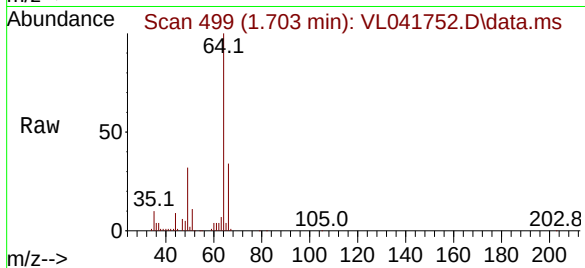
96 93.4 74.7 112.1





#7
Chloroethane
Concen: 9.311 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

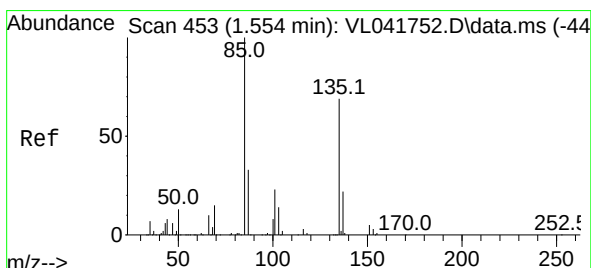
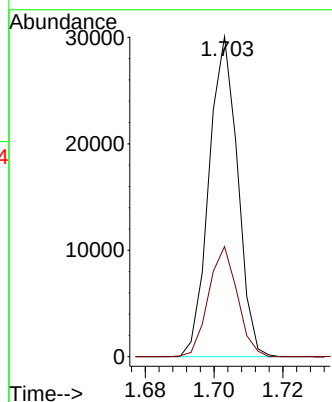
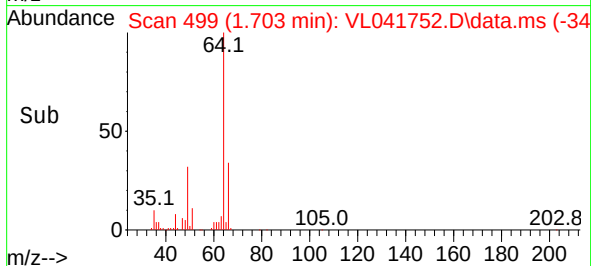
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 64 Resp: 17403
Ion Ratio Lower Upper
64 100
66 34.4 27.5 41.3

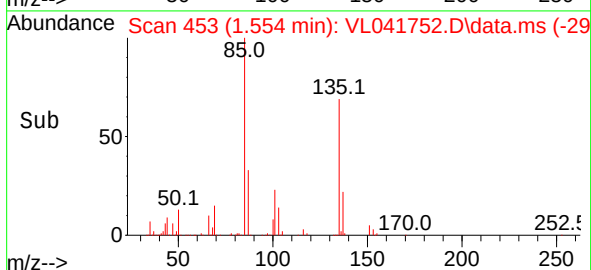
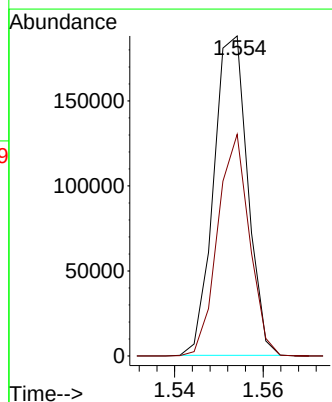
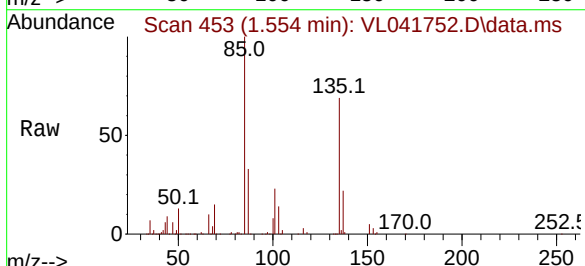
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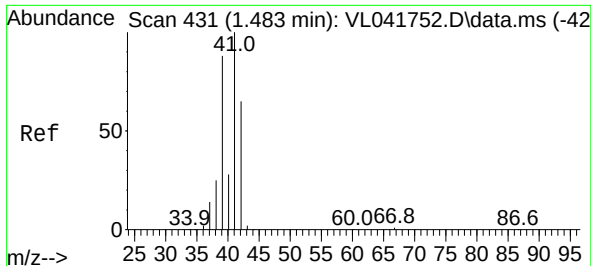
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 9.171 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 85 Resp: 100191
Ion Ratio Lower Upper
85 100
135 64.9 51.9 77.9





#9

Propene

Concen: 8.959 ppbv

RT: 1.483 min Scan# 431

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 43440

Ion Ratio Lower Upper

41 100

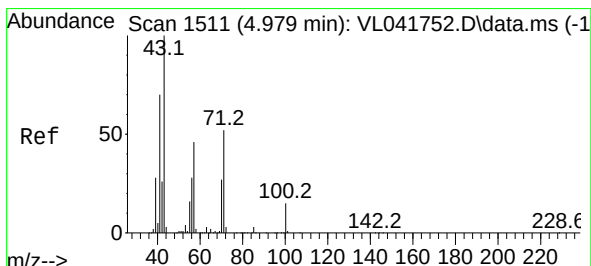
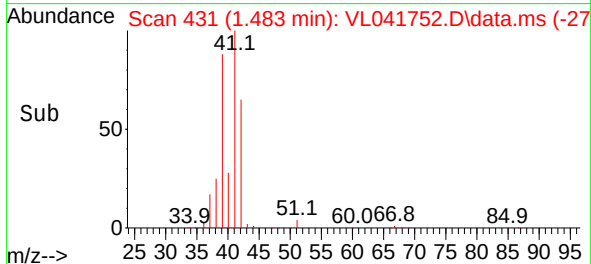
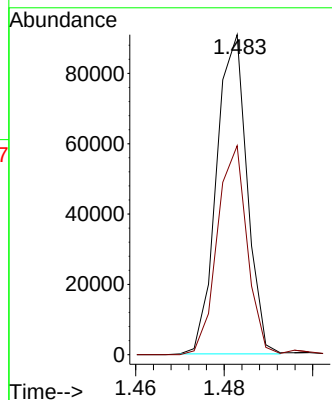
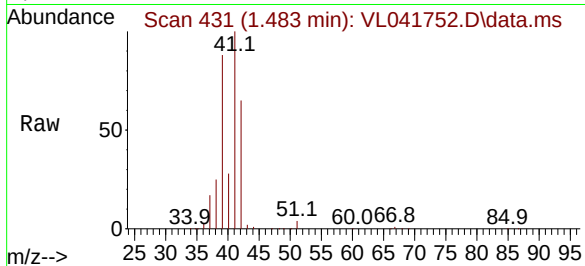
42 65.5 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#10

Heptane

Concen: 9.391 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL041752.D

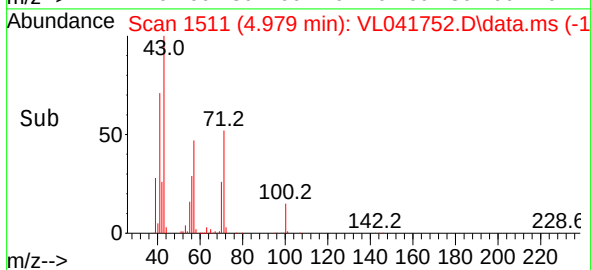
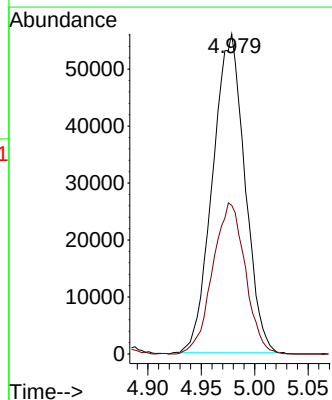
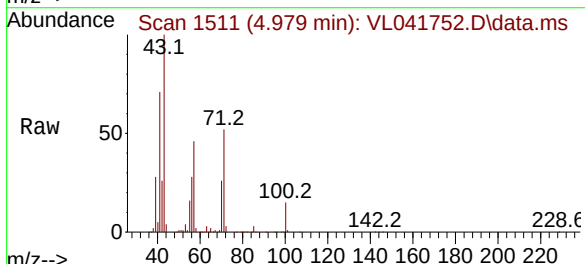
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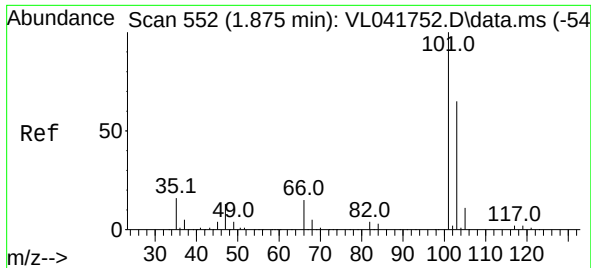
Tgt Ion: 43 Resp: 116969

Ion Ratio Lower Upper

43 100

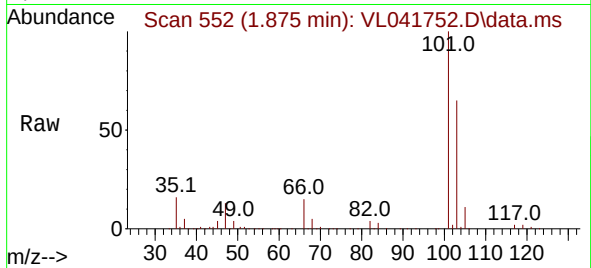
57 48.1 38.5 57.7





#11
 Trichlorofluoromethane
 Concen: 9.474 ppbv
 RT: 1.875 min Scan# 552
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

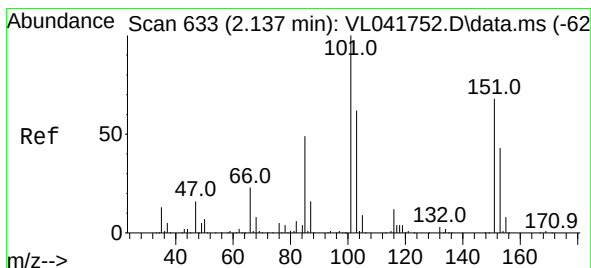
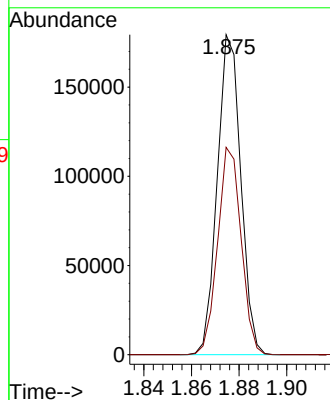
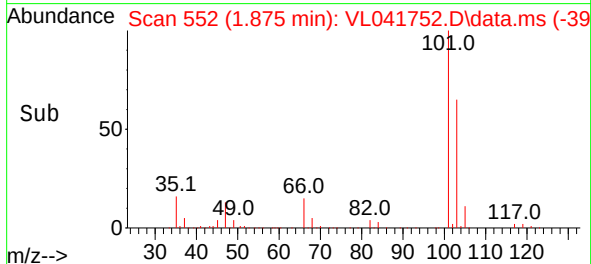
Instrument :
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 ClientSampleId :
 VSTDICCC010



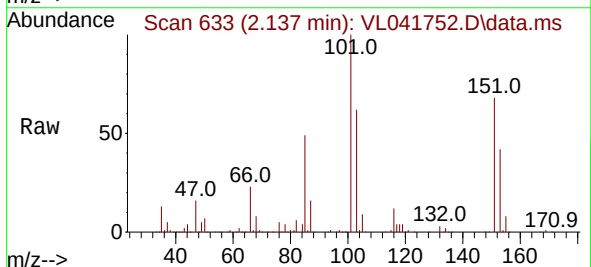
Tgt Ion:101 Resp: 12283
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.8

Manual Integrations
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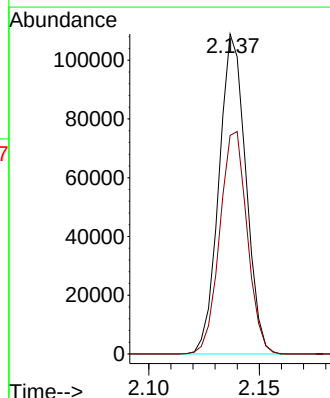
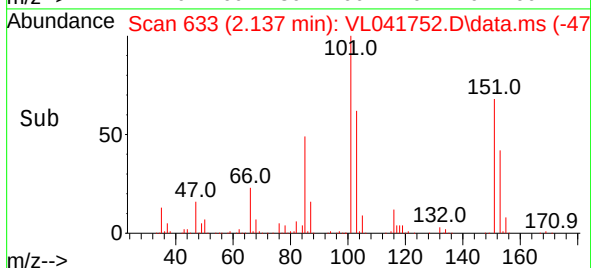
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

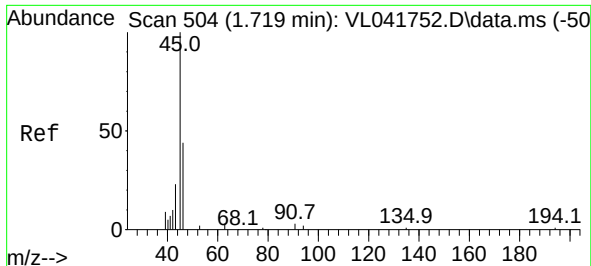


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.327 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30



Tgt Ion:101 Resp: 91977
 Ion Ratio Lower Upper
 101 100
 151 71.0 56.8 85.2





#13

Ethanol

Concen: 6.161 ppbv

RT: 1.719 min Scan# 504

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 45 Resp: 2484

Ion Ratio Lower Upper

45 100

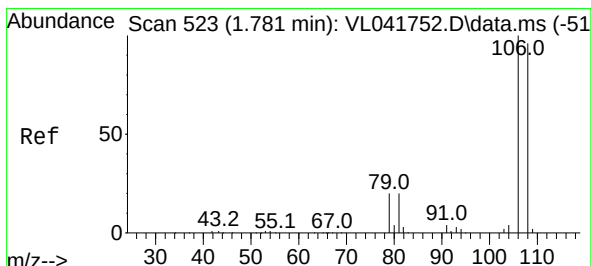
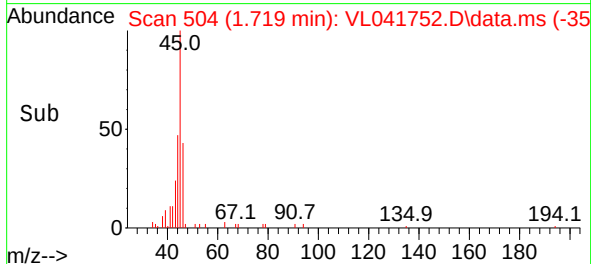
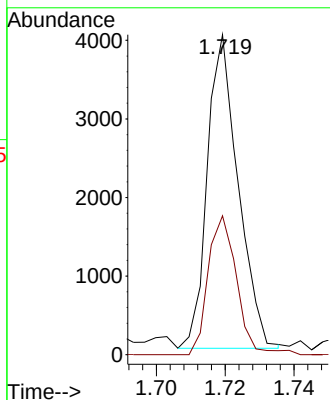
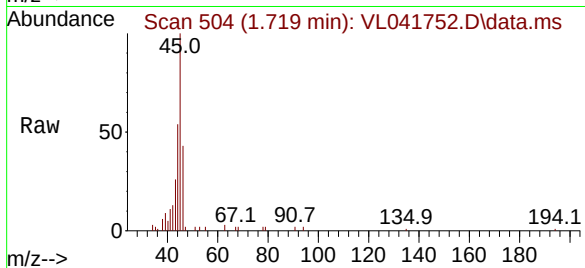
46 41.1 16.4 65.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#14

Bromoethene

Concen: 9.770 ppbv

RT: 1.781 min Scan# 523

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

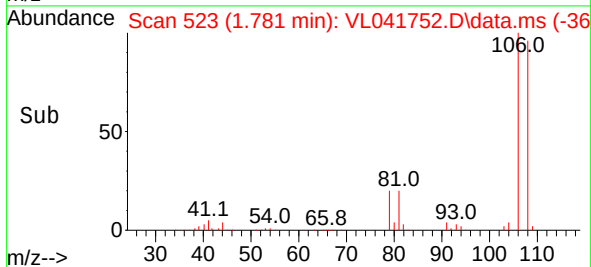
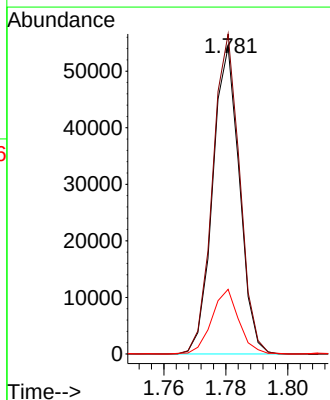
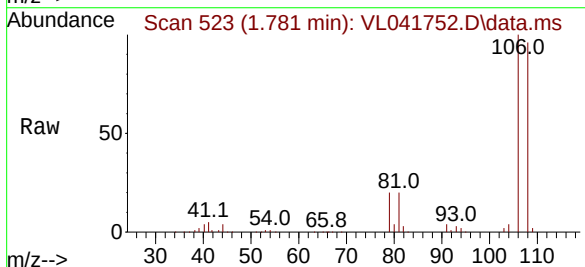
Tgt Ion:108 Resp: 32528

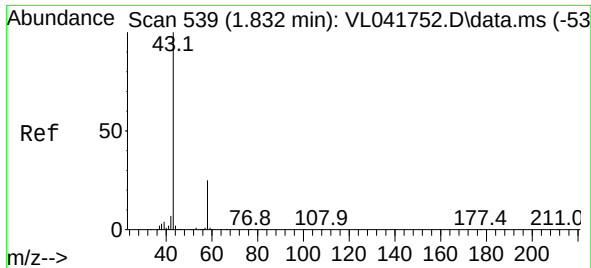
Ion Ratio Lower Upper

108 100

106 105.1 84.1 126.1

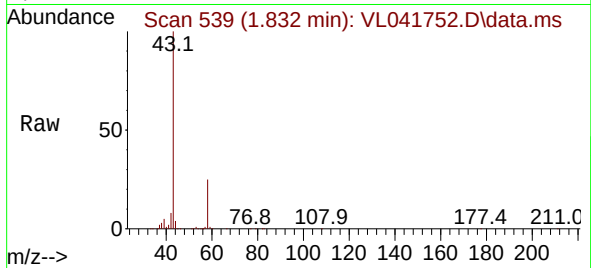
79 21.7 17.4 26.0





#15
Acetone
Concen: 7.509 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

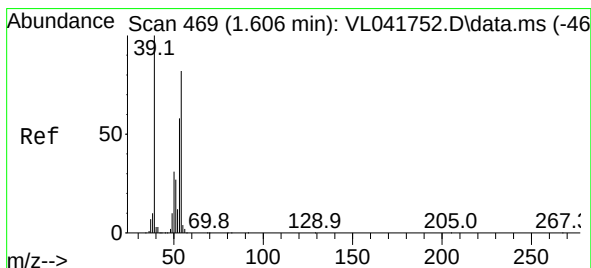
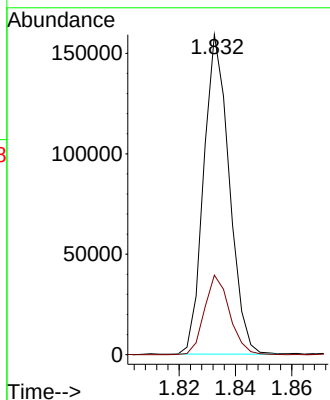
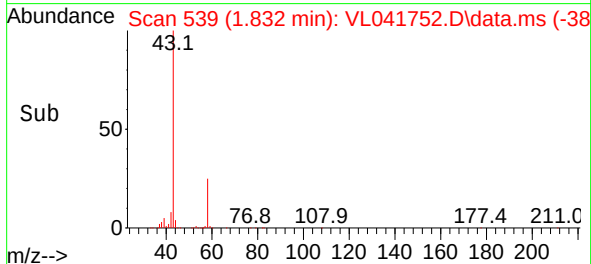
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



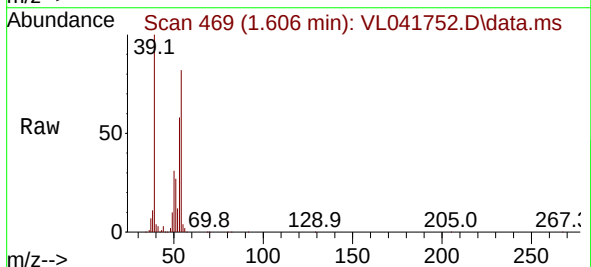
Tgt Ion: 43 Resp: 100229
Ion Ratio Lower Upper
43 100
58 24.6 19.7 29.5

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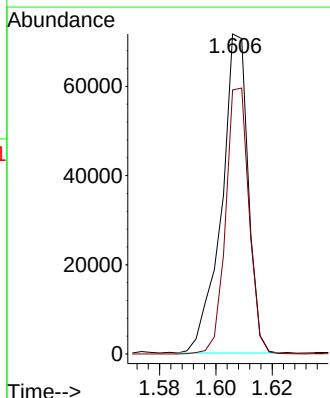
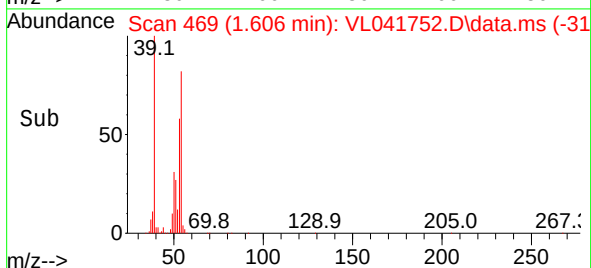
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

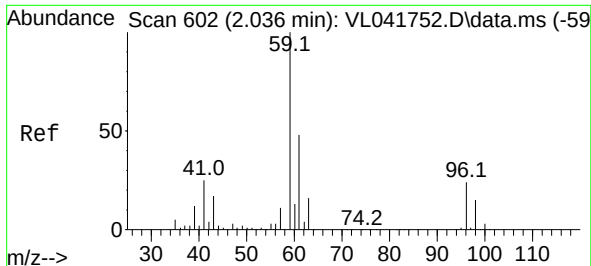


#16
1,3-Butadiene
Concen: 8.940 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



Tgt Ion: 39 Resp: 46989
Ion Ratio Lower Upper
39 100
54 73.0 58.4 87.6





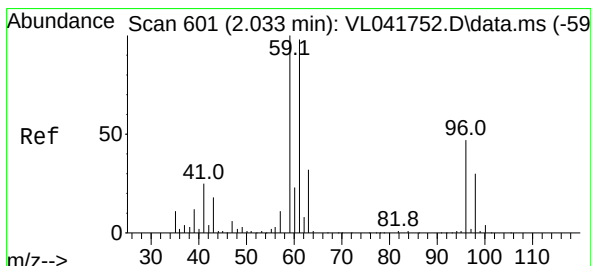
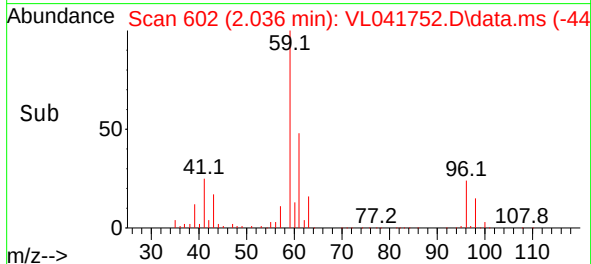
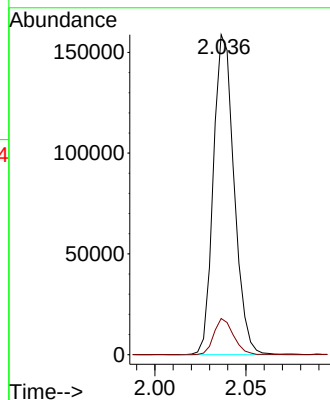
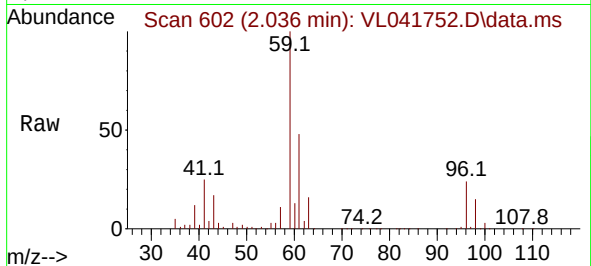
#17
tert-Butyl alcohol
Concen: 9.497 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 12575
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0

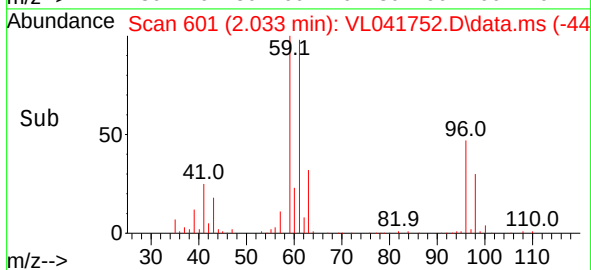
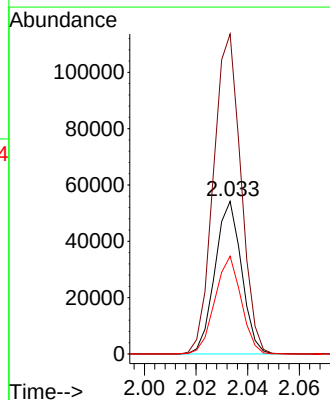
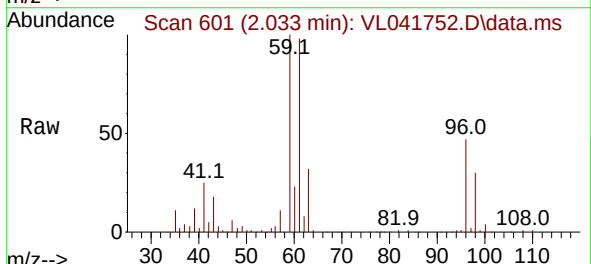
Manual Integrations
APPROVED

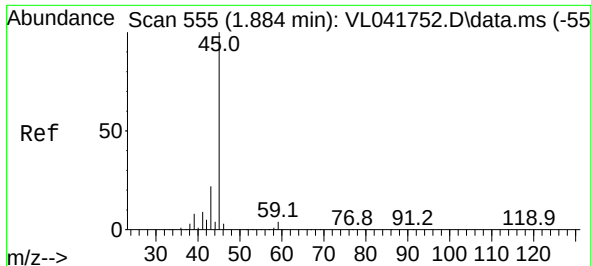
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#18
1,1-Dichloroethene
Concen: 9.379 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 96 Resp: 38775
Ion Ratio Lower Upper
96 100
61 209.6 167.7 251.5
98 63.9 51.1 76.7





#19

Isopropyl Alcohol

Concen: 7.370 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 45 Resp: 59020

Ion Ratio Lower Upper

45 100

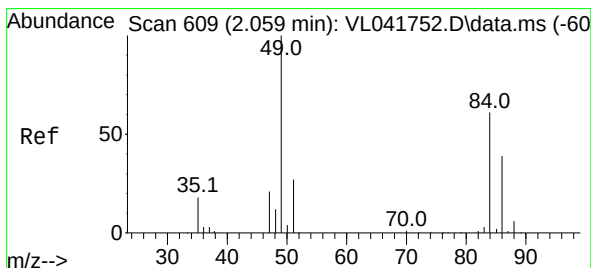
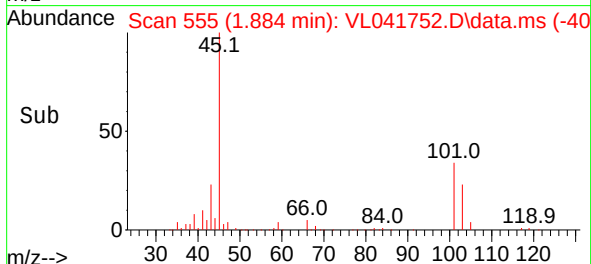
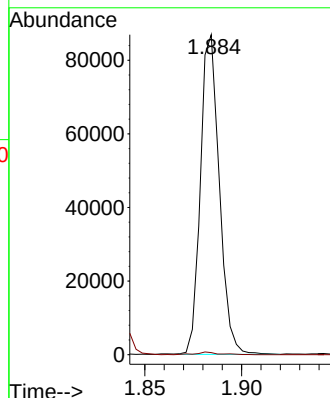
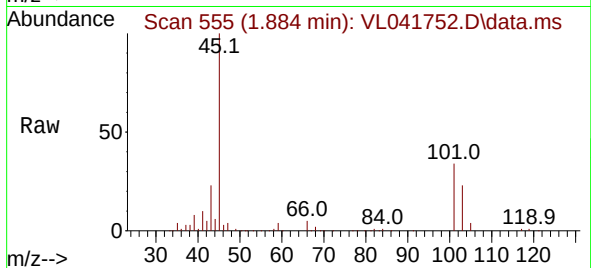
58 41.6 33.3 49.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#20

Methylene Chloride

Concen: 8.601 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 84 Resp: 32734

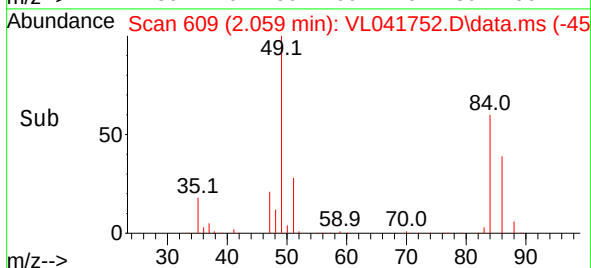
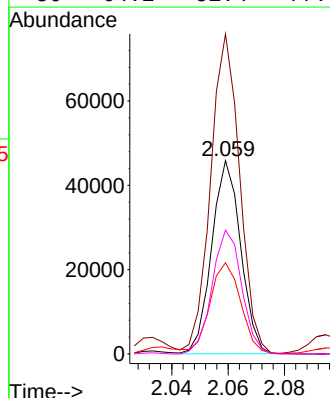
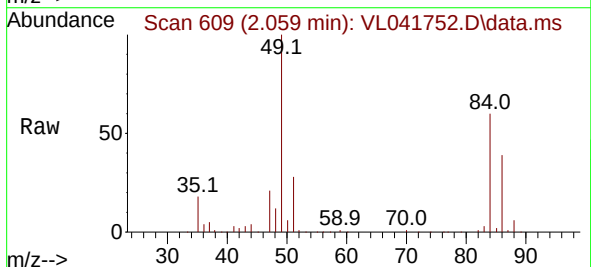
Ion Ratio Lower Upper

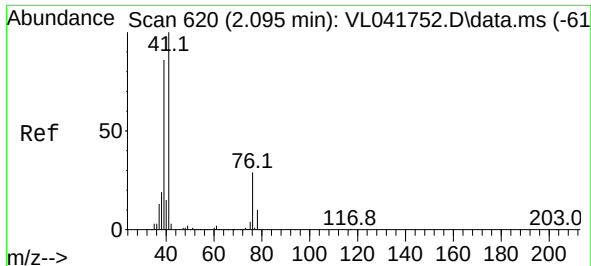
84 100

49 165.7 132.6 198.8

51 47.0 37.6 56.4

86 64.2 51.4 77.0





#21

Allyl Chloride

Concen: 9.588 ppbv

RT: 2.095 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

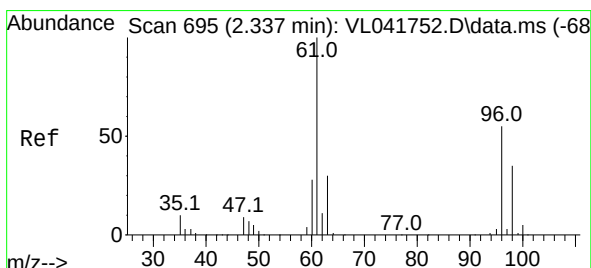
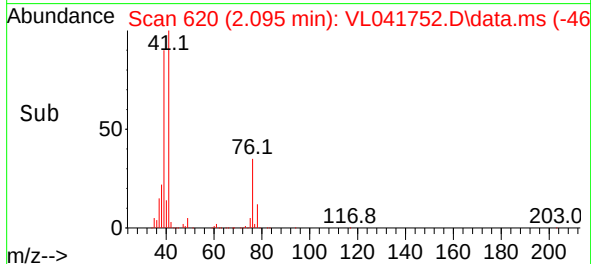
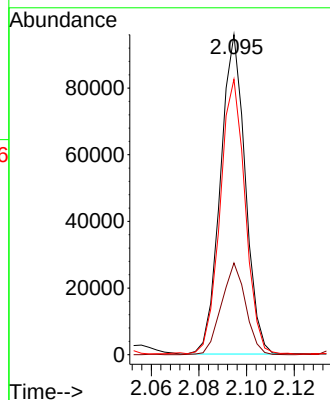
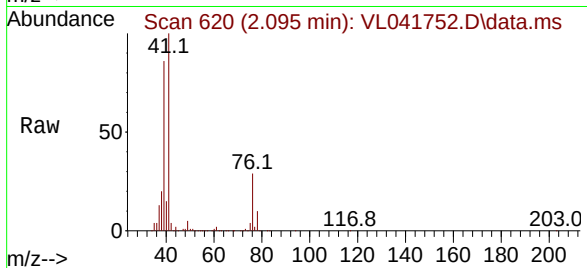
VSTDICCC010

Tgt Ion: 41	Resp: 69400
Ion Ratio	Lower Upper
41	100
76	27.9 22.3 33.5
39	86.5 69.2 103.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#22

trans-1,2-Dichloroethene

Concen: 9.276 ppbv

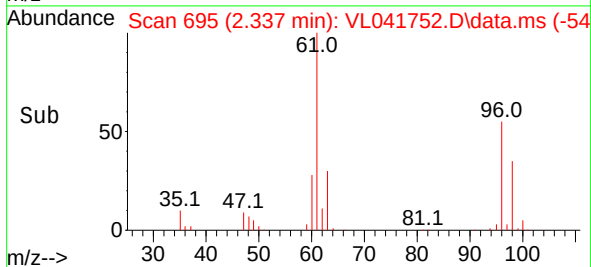
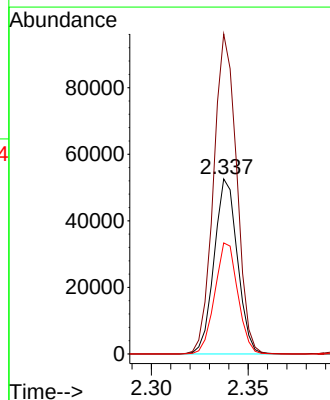
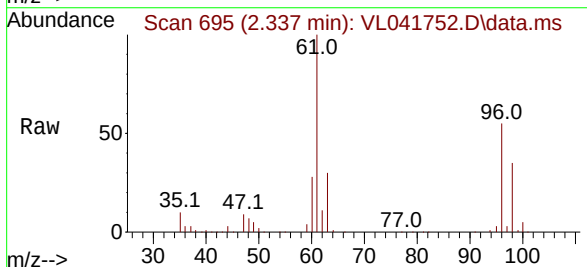
RT: 2.337 min Scan# 695

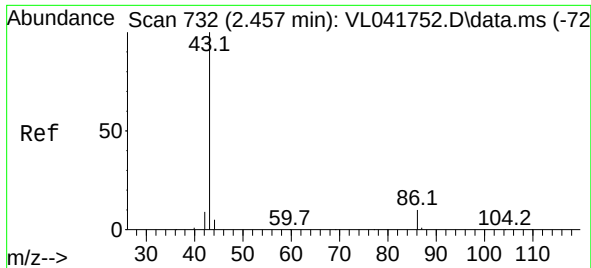
Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 96	Resp: 43898
Ion Ratio	Lower Upper
96	100
61	182.9 146.3 219.5
98	63.5 50.8 76.2





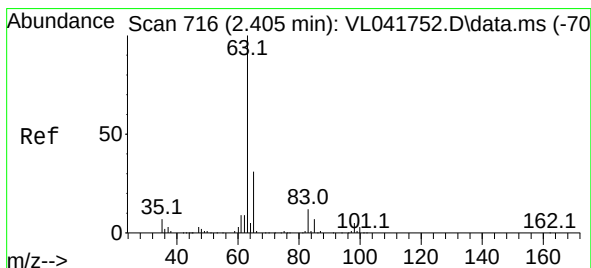
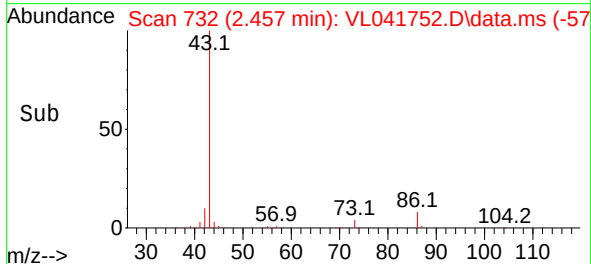
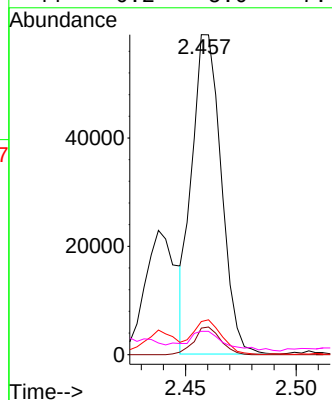
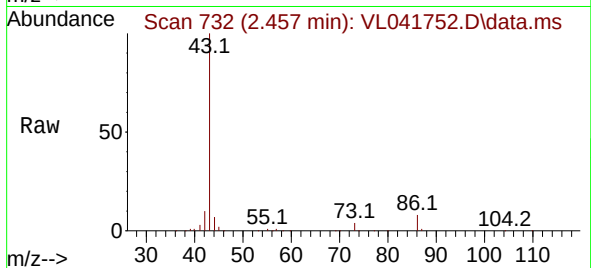
#23
 Vinyl Acetate
 Concen: 9.350 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 5422
 Ion Ratio Lower Upper
 43 100
 86 8.3 6.6 10.0
 42 10.2 8.2 12.2
 44 6.2 5.0 7.4

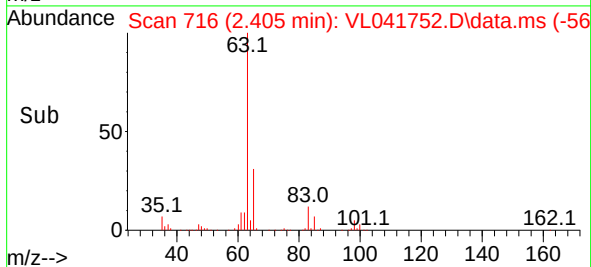
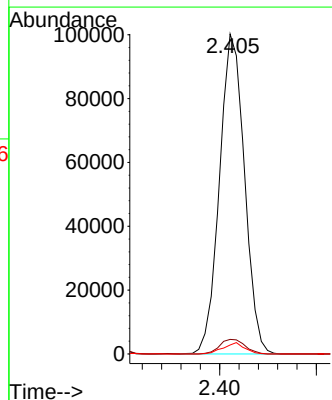
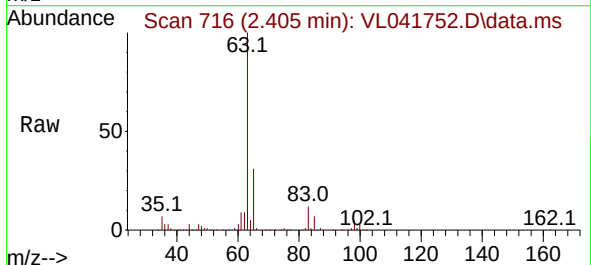
Manual Integrations
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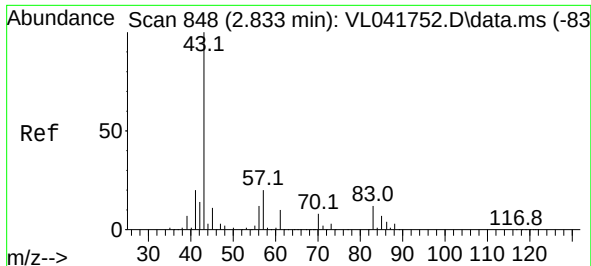
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#24
 1,1-Dichloroethane
 Concen: 9.386 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Tgt Ion: 63 Resp: 89912
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 2.8 1.4 4.2





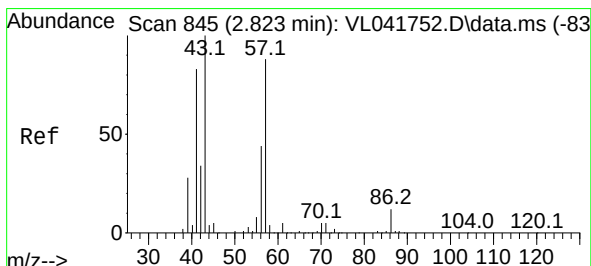
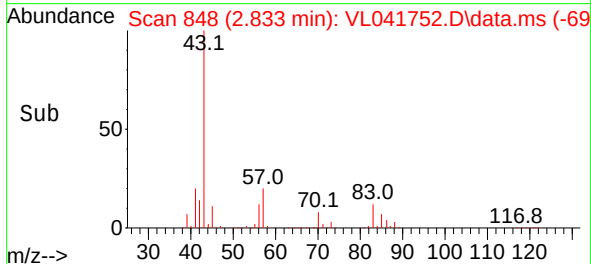
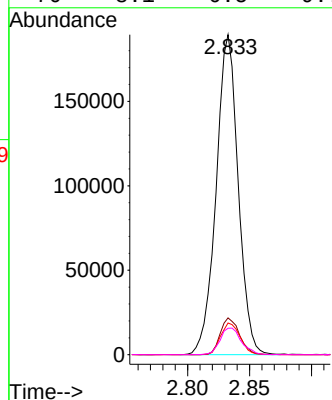
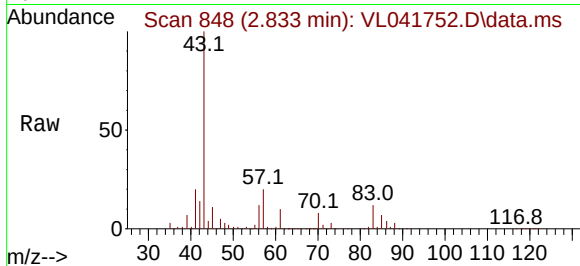
#25
Ethyl Acetate
Concen: 9.432 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43	Resp: 235309
Ion Ratio	Lower Upper
43 100	
45 10.1	8.1 12.1
61 8.8	7.0 10.6
70 8.1	6.5 9.7

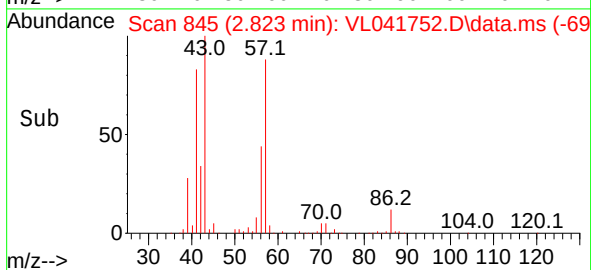
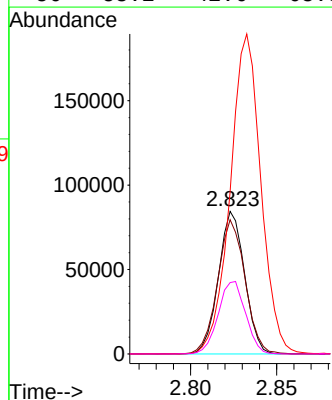
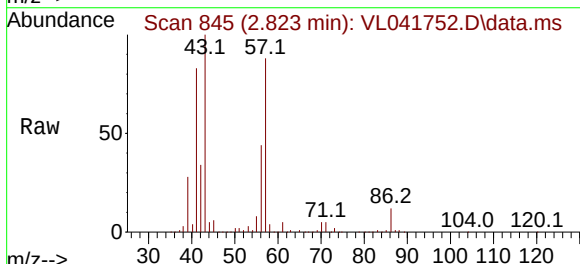
Manual Integrations
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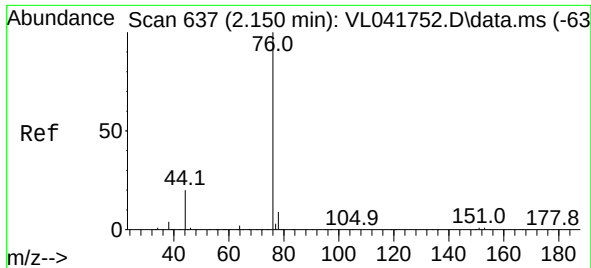
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#26
Hexane
Concen: 9.486 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 57	Resp: 89385
Ion Ratio	Lower Upper
57 100	
41 99.5	79.6 119.4
43 263.8	211.0 316.6
56 53.2	42.6 63.8





#27

Carbon Disulfide

Concen: 10.873 ppbv

RT: 2.150 min Scan# 637

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

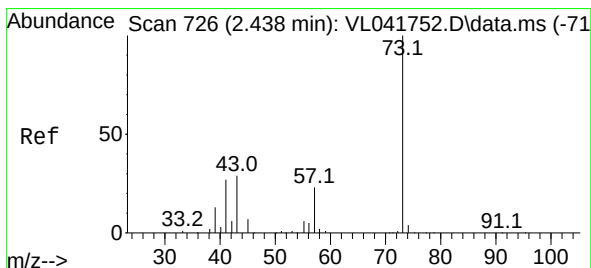
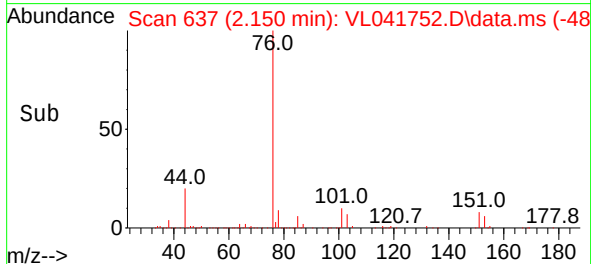
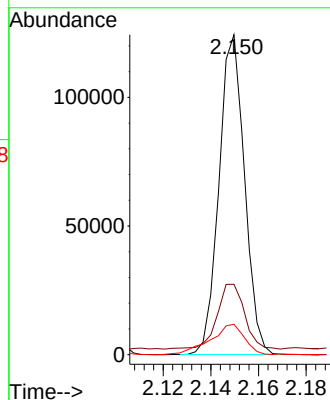
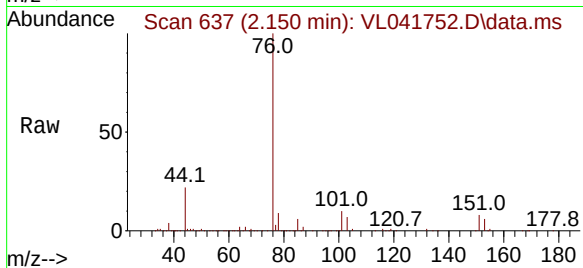
Tgt Ion: 76 Resp: 92329

Ion	Ratio	Lower	Upper
76	100		
44	22.0	17.6	26.4
78	12.8	10.2	15.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#28

Methyl tert-Butyl Ether

Concen: 9.854 ppbv

RT: 2.438 min Scan# 726

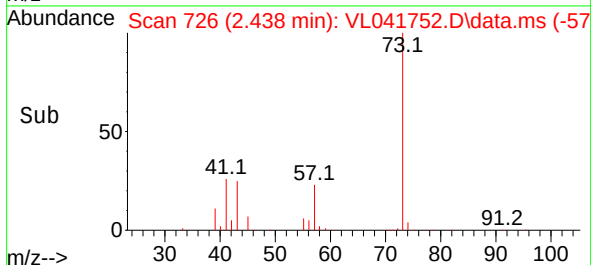
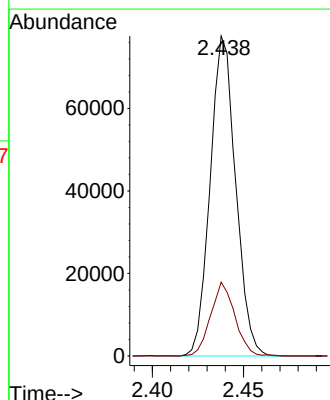
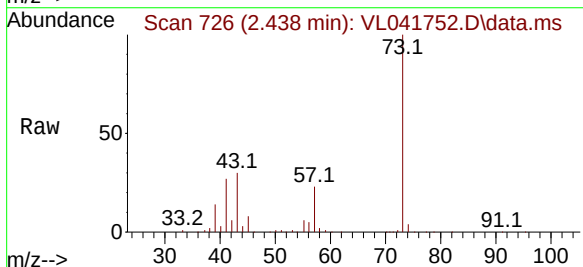
Delta R.T. 0.000 min

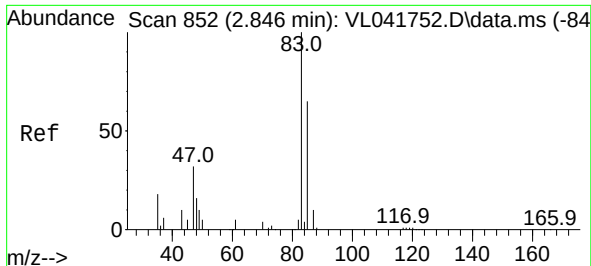
Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 73 Resp: 75330

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.6	26.4





#29

Chloroform

Concen: 9.408 ppbv

RT: 2.846 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 135099

Ion Ratio Lower Upper

83 100

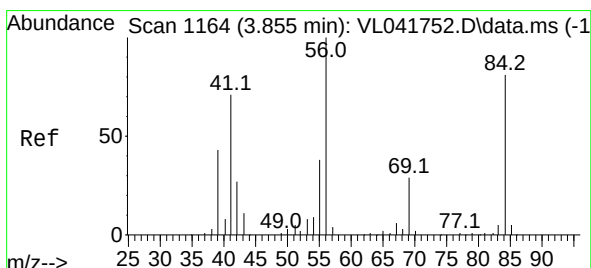
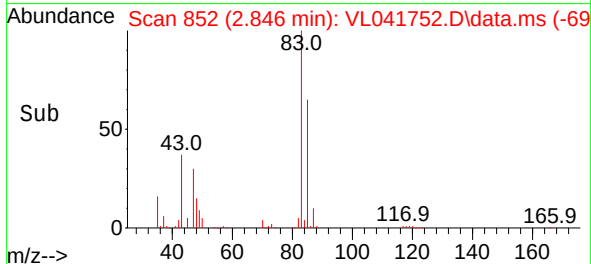
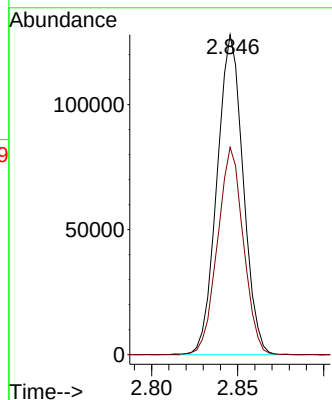
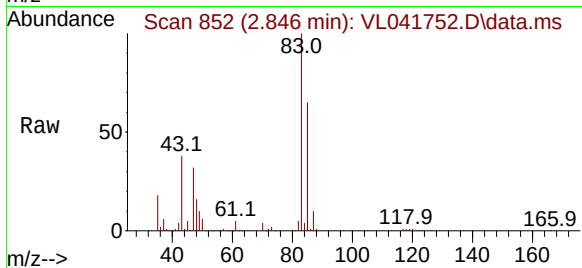
85 64.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 9.374 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

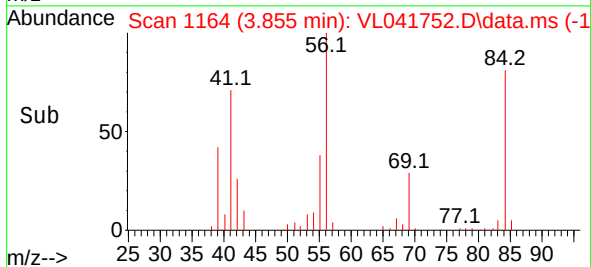
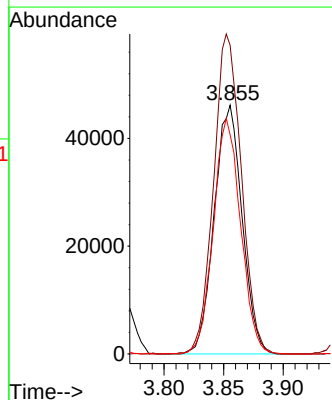
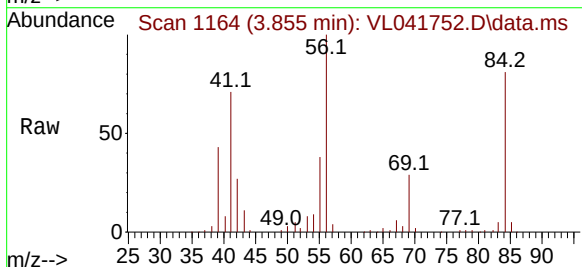
Tgt Ion: 84 Resp: 75156

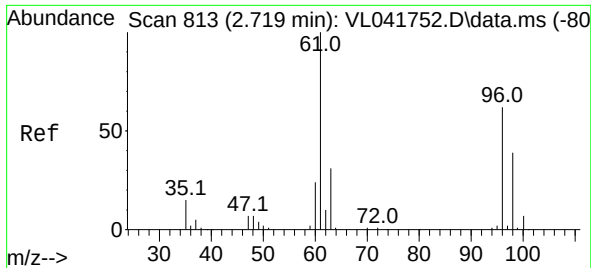
Ion Ratio Lower Upper

84 100

56 127.9 102.3 153.5

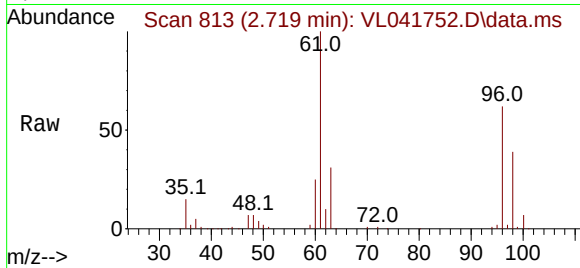
41 92.5 74.0 111.0





#31
 cis-1,2-Dichloroethene
 Concen: 9.374 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

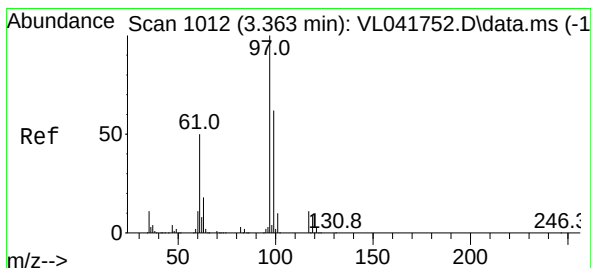
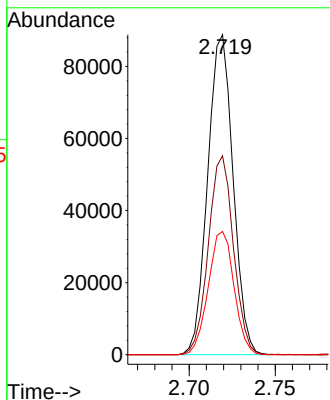
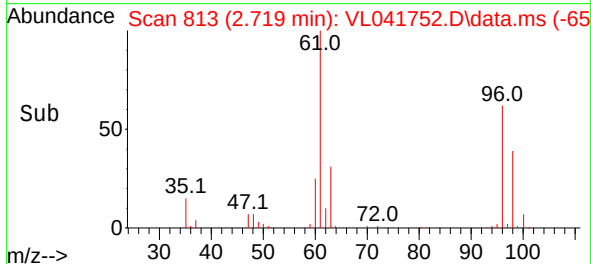
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



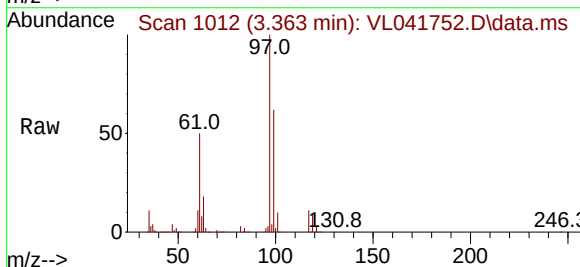
Tgt Ion: 61 Resp: 91270
 Ion Ratio Lower Upper
 61 100
 96 62.1 49.7 74.5
 98 38.5 30.8 46.2

Manual Integrations
 APPROVED

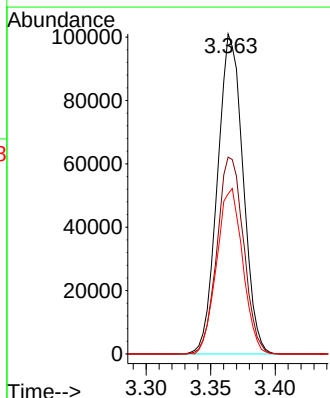
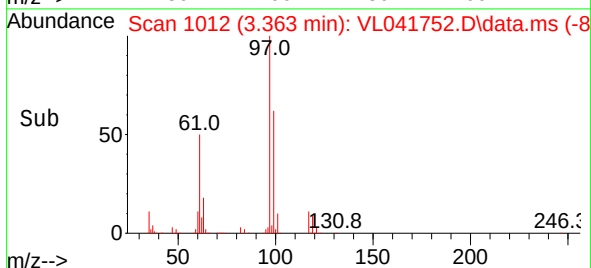
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

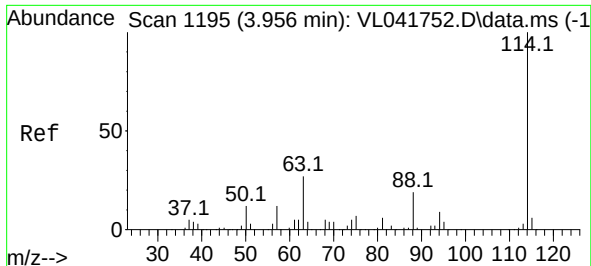


#32
 1,1,1-Trichloroethane
 Concen: 9.733 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30



Tgt Ion: 97 Resp: 139102
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 52.7 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

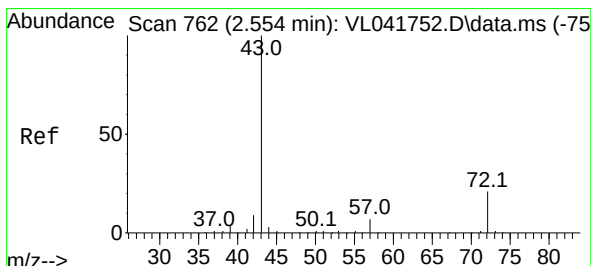
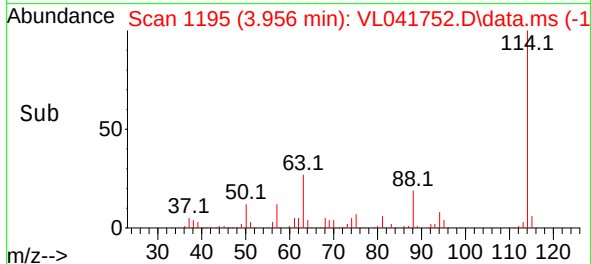
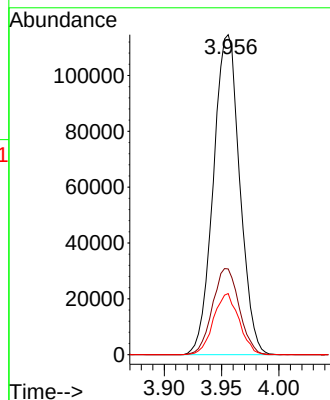
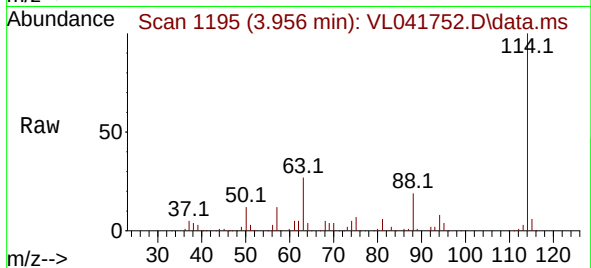
VSTDICCC010

Tgt Ion:114 Resp: 183780
 Ion Ratio Lower Upper
 114 100
 63 27.3 21.8 32.8
 88 18.5 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#34

2-Butanone

Concen: 9.153 ppbv

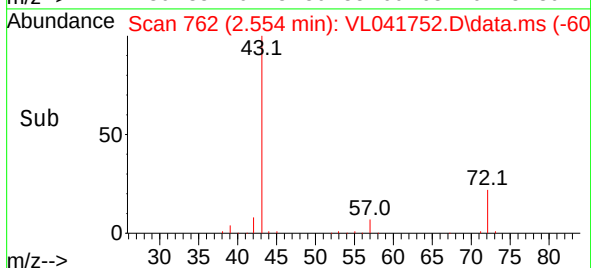
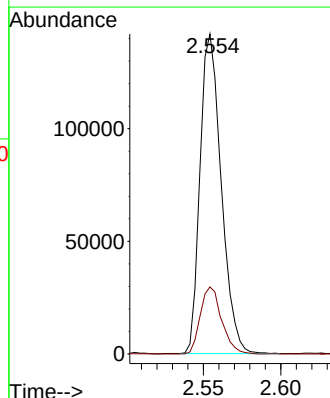
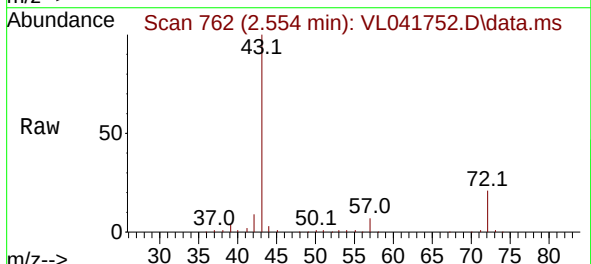
RT: 2.554 min Scan# 762

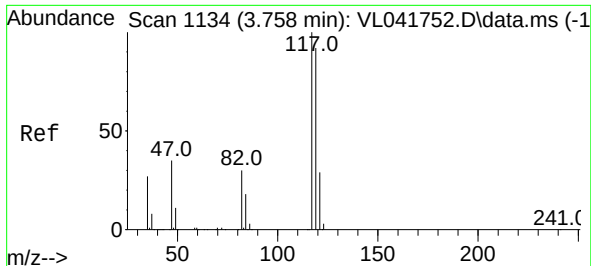
Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

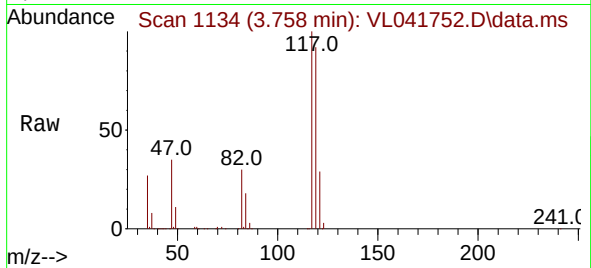
Tgt Ion: 43 Resp: 135331
 Ion Ratio Lower Upper
 43 100
 72 21.0 16.8 25.2





#35
Carbon Tetrachloride
Concen: 10.650 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

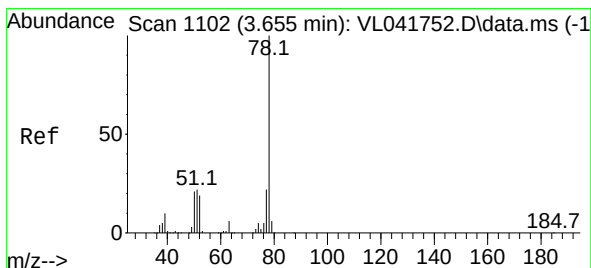
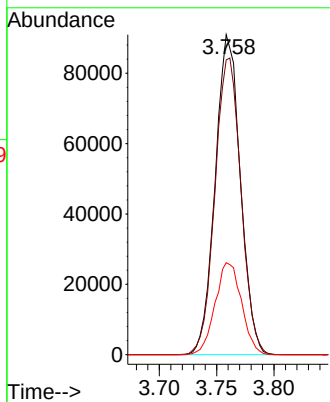
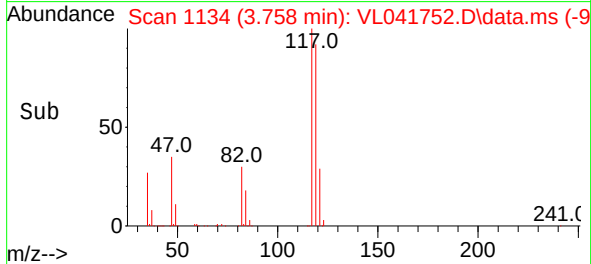
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 138952
Ion Ratio Lower Upper
117 100
119 92.1 73.7 110.5
121 28.7 23.0 34.4

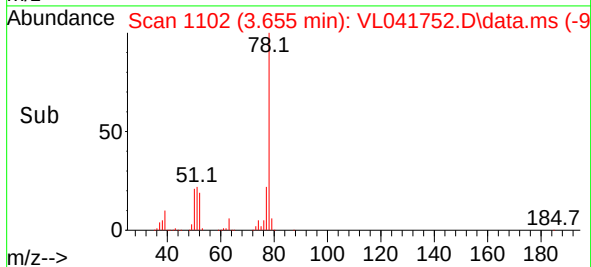
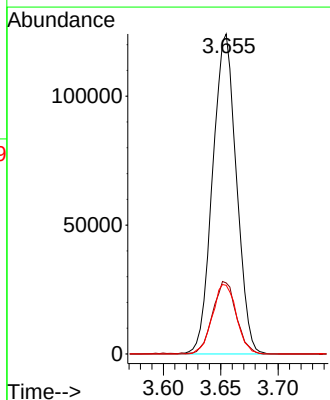
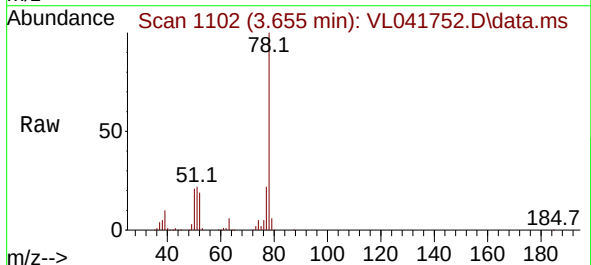
Manual Integrations
APPROVED

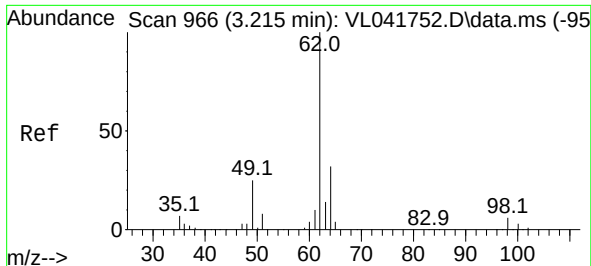
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#36
Benzene
Concen: 9.423 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 78 Resp: 179134
Ion Ratio Lower Upper
78 100
77 22.2 17.8 26.6
50 21.5 17.2 25.8





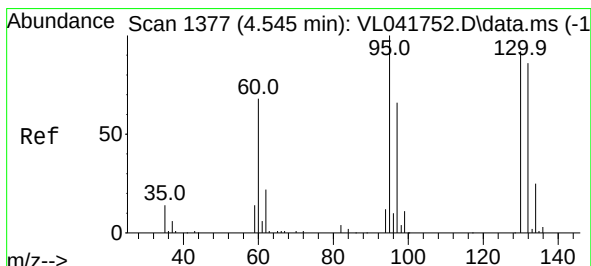
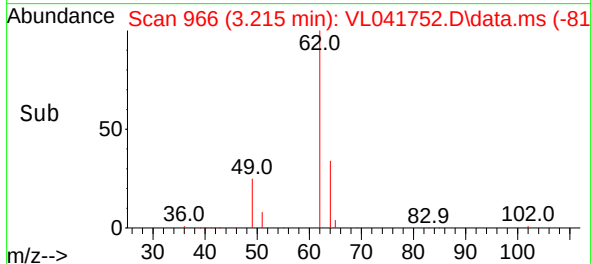
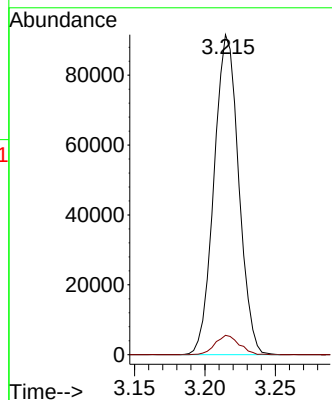
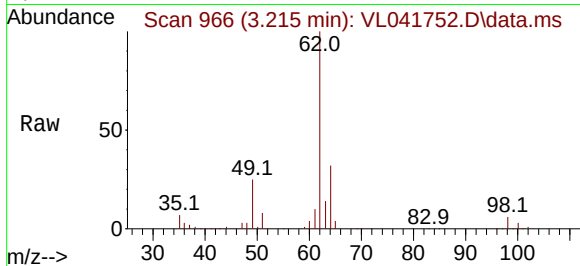
#37
1,2-Dichloroethane
Concen: 9.449 ppbv
RT: 3.215 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 111770
Ion Ratio Lower Upper
62 100
98 5.9 4.7 7.1

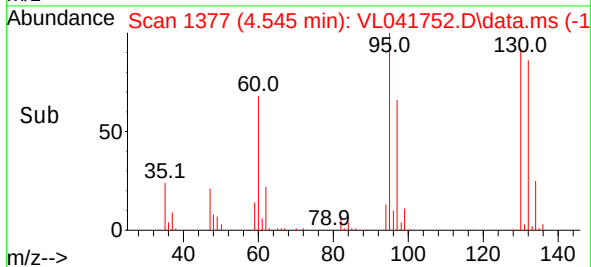
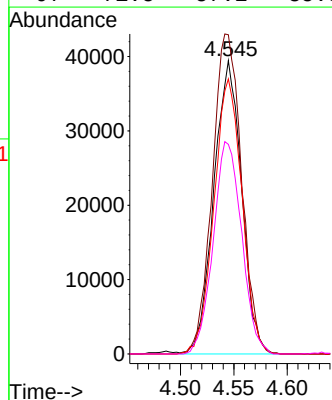
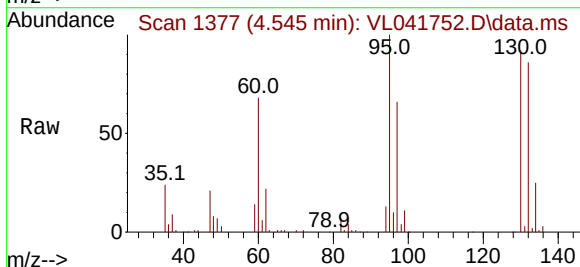
Manual Integrations
APPROVED

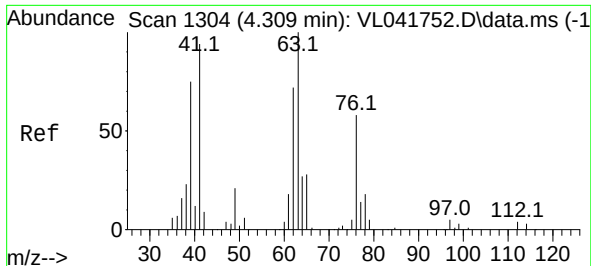
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38
Trichloroethene
Concen: 8.907 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:130 Resp: 71297
Ion Ratio Lower Upper
130 100
95 108.8 87.0 130.6
132 93.8 75.0 112.6
97 71.5 57.2 85.8





#39

1,2-Dichloropropane

Concen: 9.423 ppbv

RT: 4.309 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

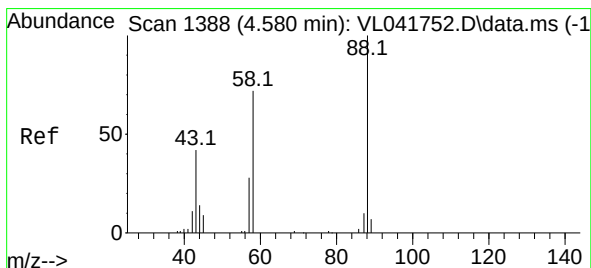
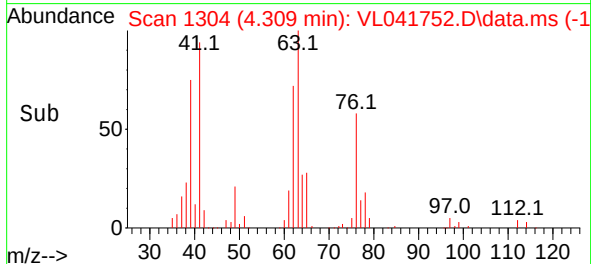
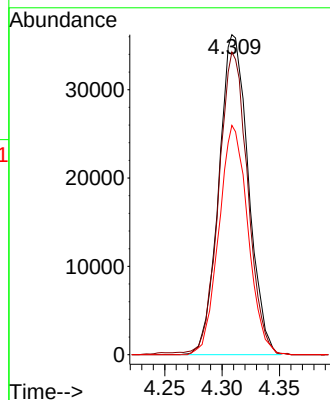
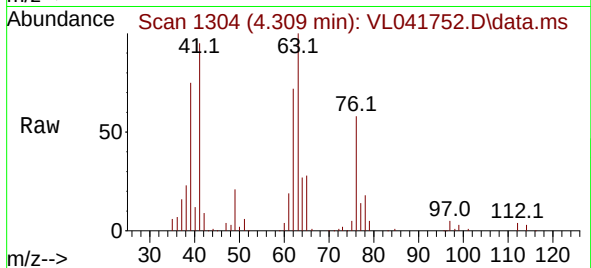
Tgt Ion: 63 Resp: 64789

Ion	Ratio	Lower	Upper
63	100		
41	94.1	75.3	112.9
62	71.6	57.3	85.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#40

1,4-Dioxane

Concen: 9.128 ppbv

RT: 4.580 min Scan# 1388

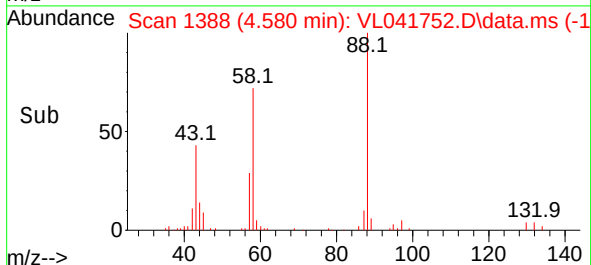
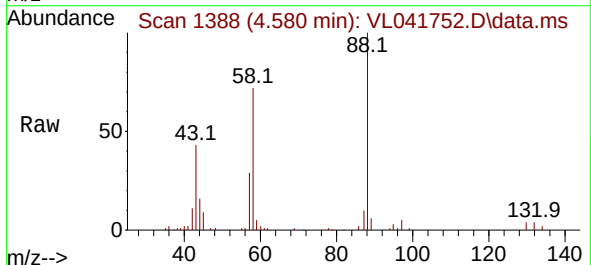
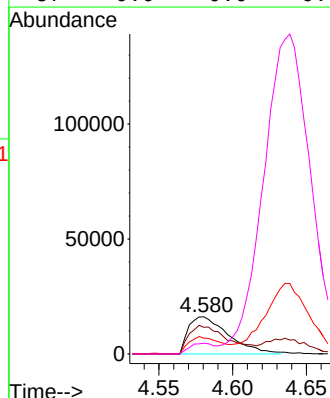
Delta R.T. 0.000 min

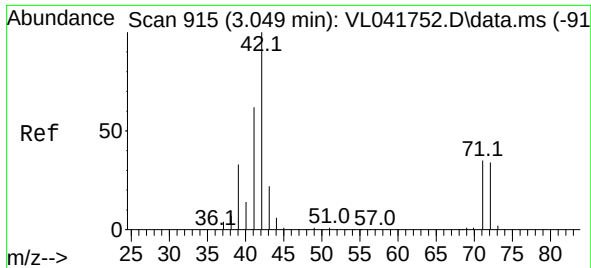
Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 88 Resp: 30658

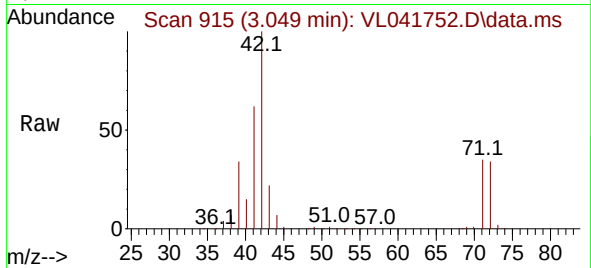
Ion	Ratio	Lower	Upper
88	100		
58	76.3	61.0	91.6
43	36.7	29.4	44.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.474 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

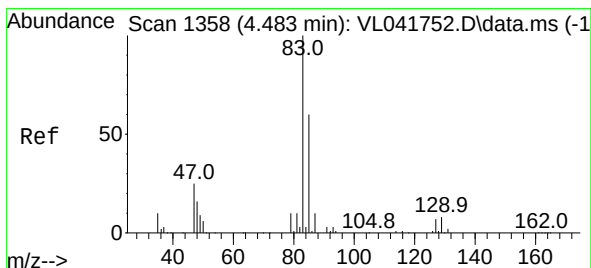
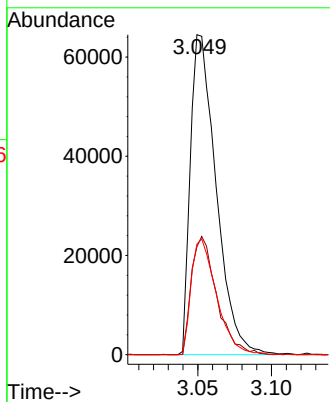
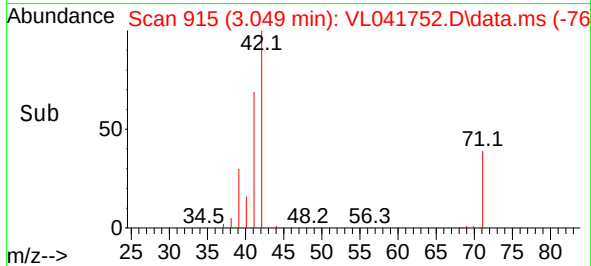
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



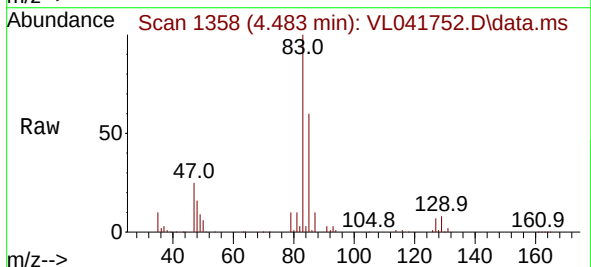
Tgt Ion: 42 Resp: 78480
Ion Ratio Lower Upper
42 100
72 36.4 29.1 43.7
71 35.5 28.4 42.6

Manual Integrations
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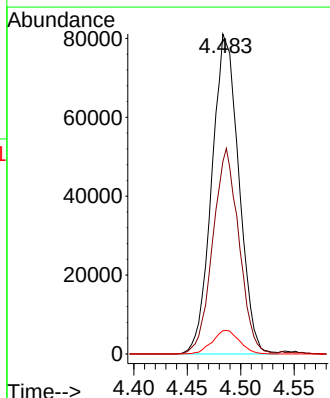
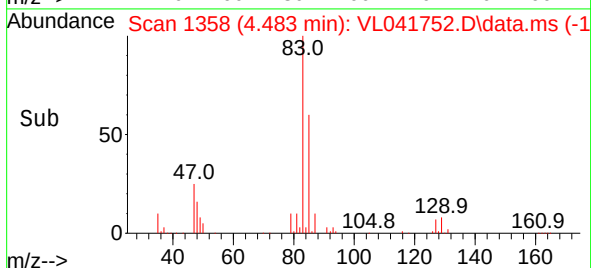
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

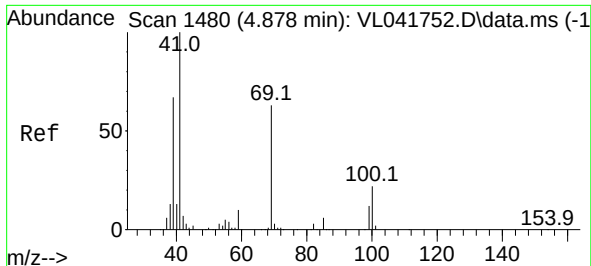


#42
Bromodichloromethane
Concen: 10.494 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



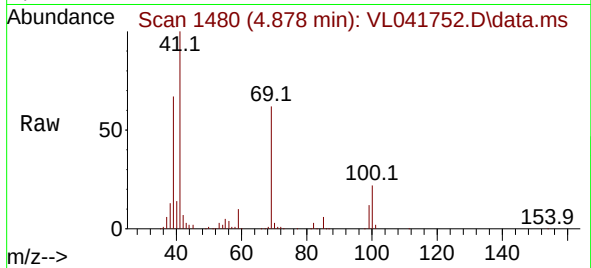
Tgt Ion: 83 Resp: 142819
Ion Ratio Lower Upper
83 100
85 60.0 48.0 72.0
127 7.3 5.8 8.8





#43
Methyl Methacrylate
Concen: 10.020 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

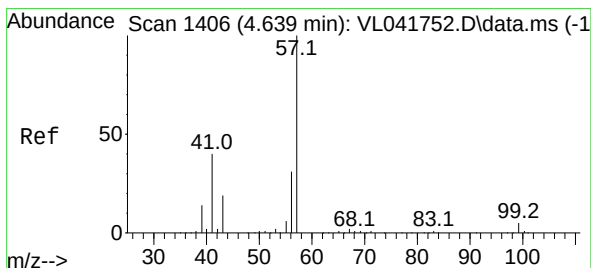
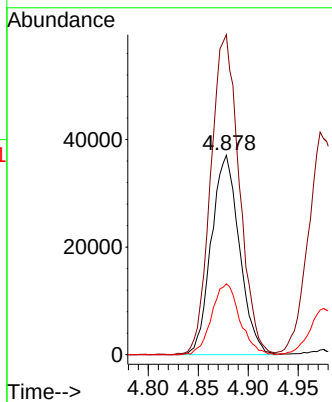
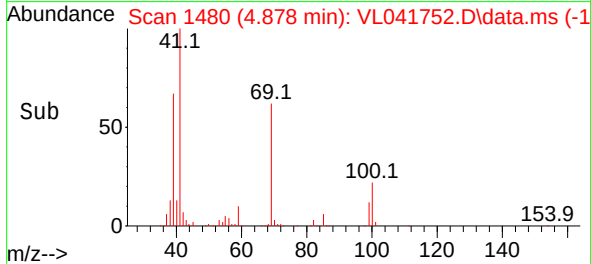
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



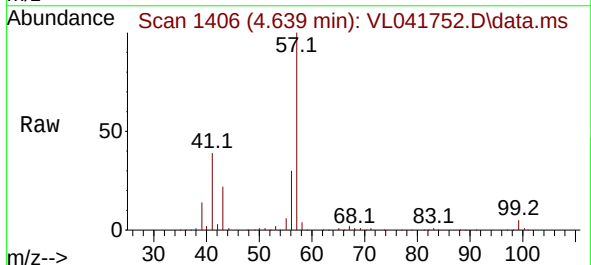
Tgt Ion: 69 Resp: 72578
Ion Ratio Lower Upper
69 100
41 162.9 130.3 195.5
100 35.4 28.3 42.5

Manual Integrations
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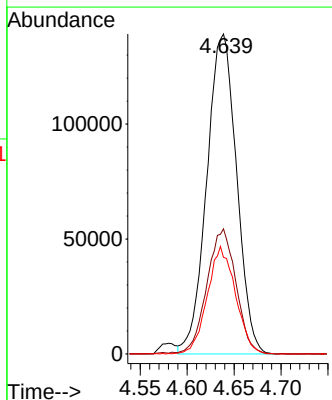
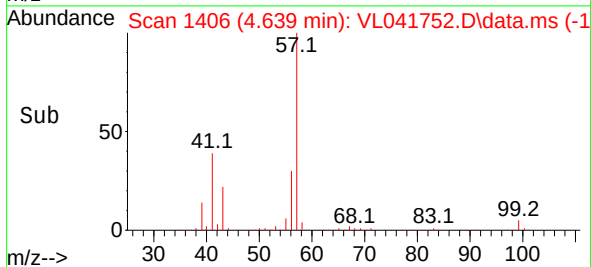
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

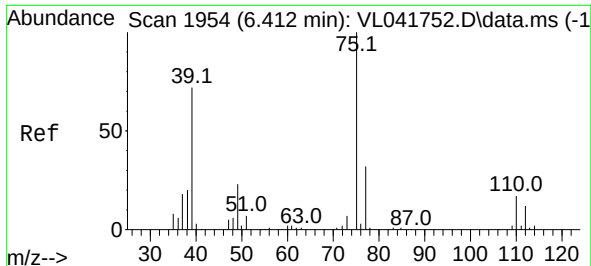


#44
2,2,4-Trimethylpentane
Concen: 9.479 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



Tgt Ion: 57 Resp: 307748
Ion Ratio Lower Upper
57 100
41 38.4 30.7 46.1
56 31.7 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 10.378 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 77752

Ion Ratio Lower Upper

75 100

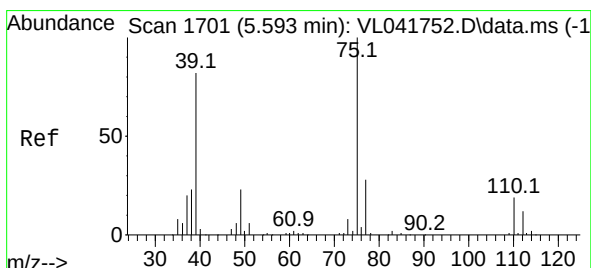
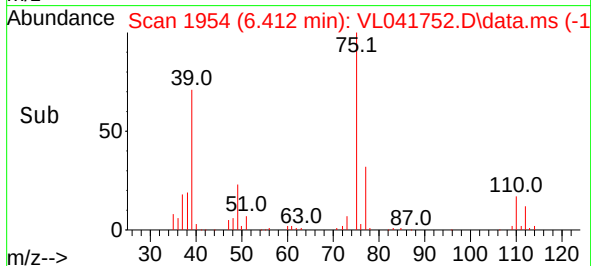
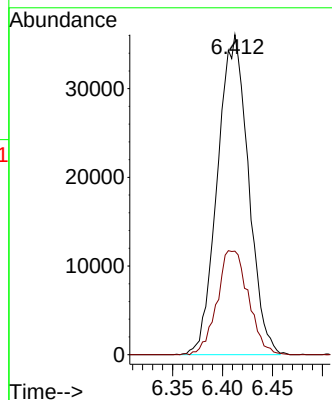
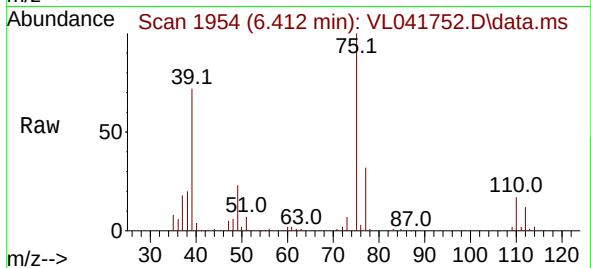
77 32.4 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#46

cis-1,3-Dichloropropene

Concen: 10.303 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

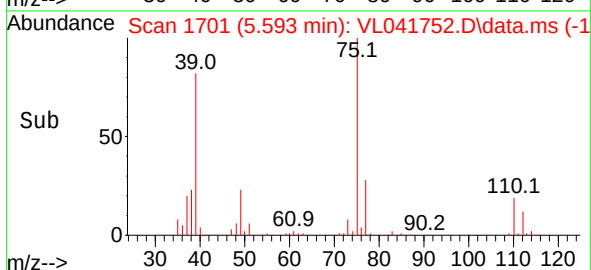
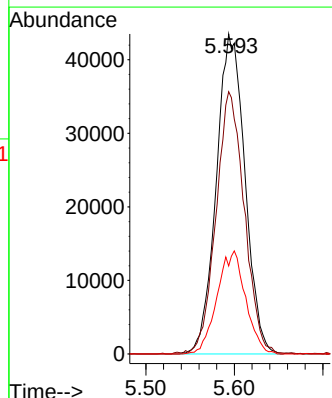
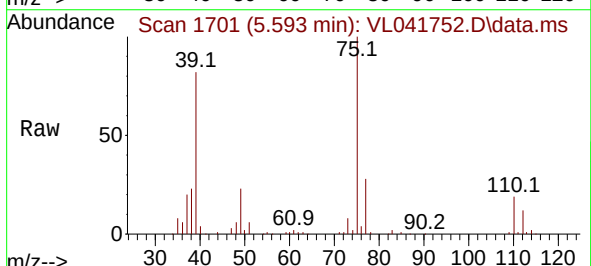
Tgt Ion: 75 Resp: 97992

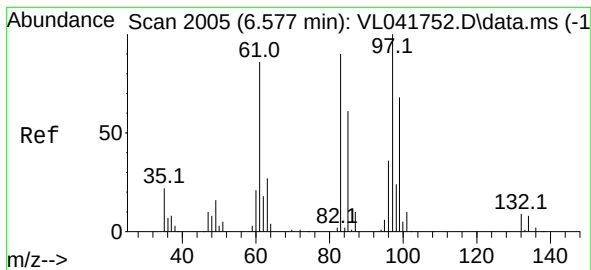
Ion Ratio Lower Upper

75 100

39 81.5 65.2 97.8

77 27.5 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 9.406 ppbv

RT: 6.577 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 67550

Ion Ratio Lower Upper

97 100

83 90.4 72.3 108.5

85 60.6 48.5 72.7

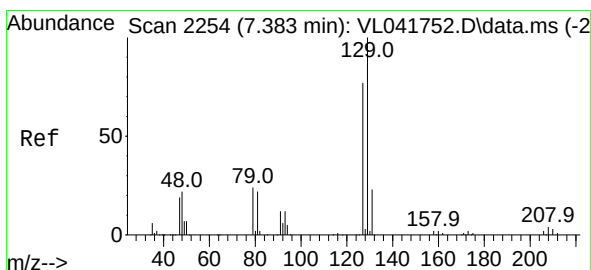
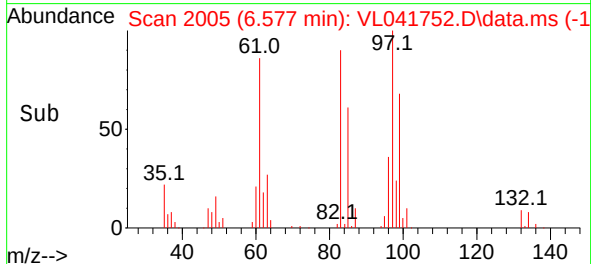
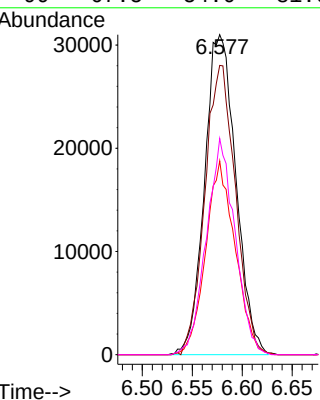
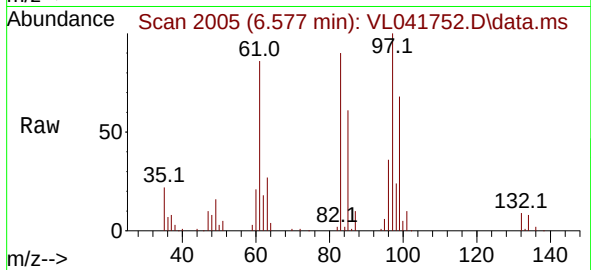
99 67.5 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#48

Dibromochloromethane

Concen: 11.105 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL041752.D

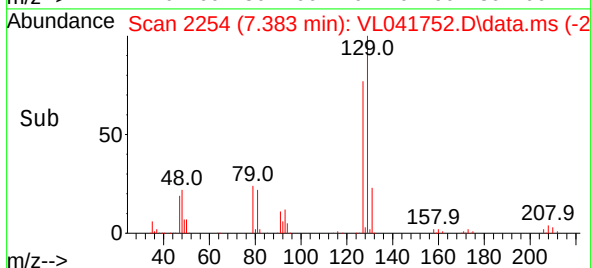
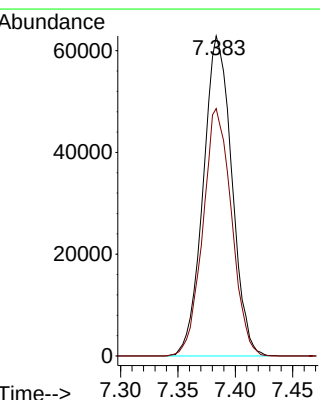
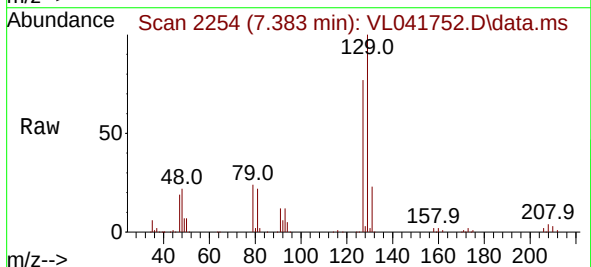
Acq: 16 Dec 2024 13:30

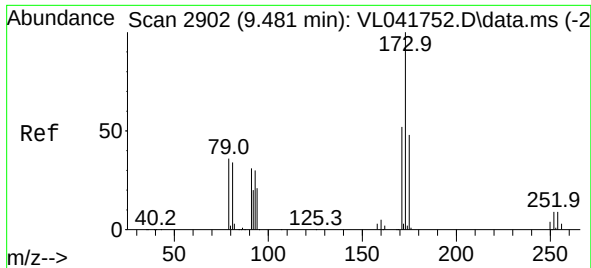
Tgt Ion:129 Resp: 108899

Ion Ratio Lower Upper

129 100

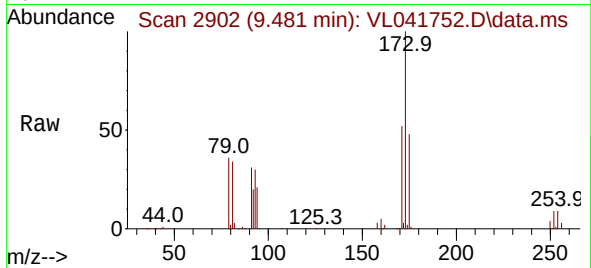
127 77.5 38.8 116.3





#49
Bromoform
Concen: 11.410 ppbv
RT: 9.481 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

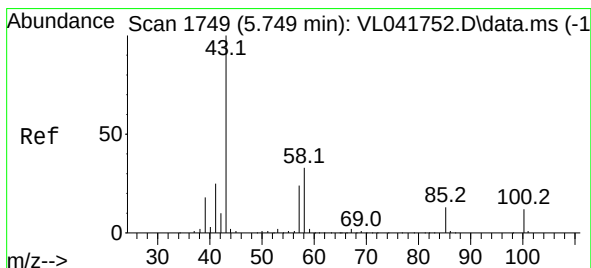
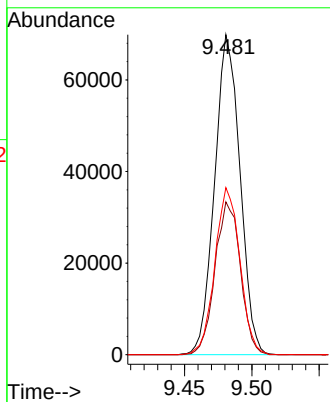
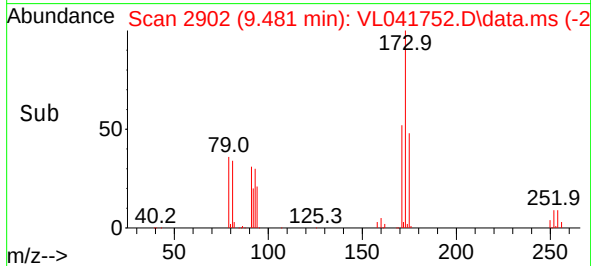
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:173 Resp: 9158
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.2
171 51.4 41.1 61.7

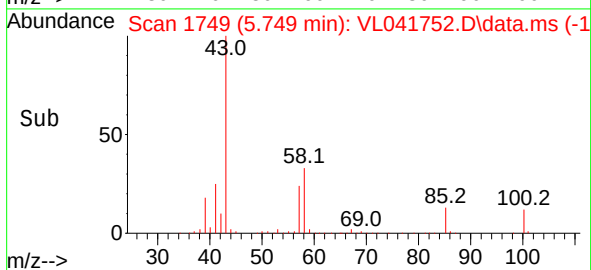
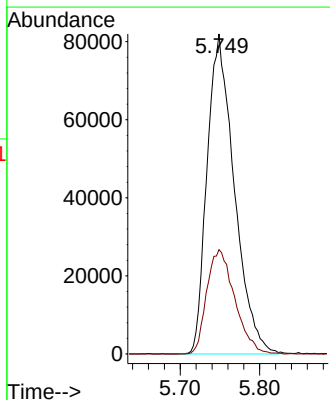
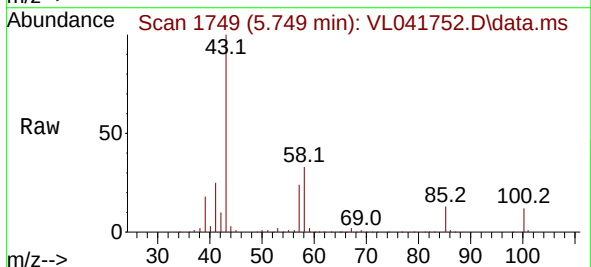
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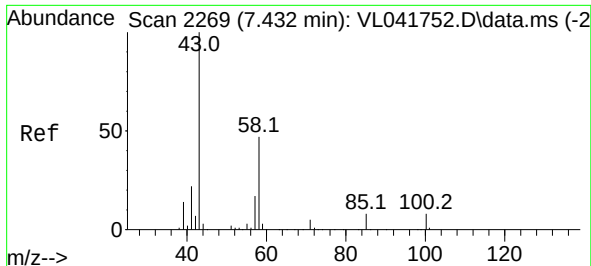
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#50
4-Methyl-2-Pentanone
Concen: 9.678 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 43 Resp: 194838
Ion Ratio Lower Upper
43 100
58 33.5 26.8 40.2





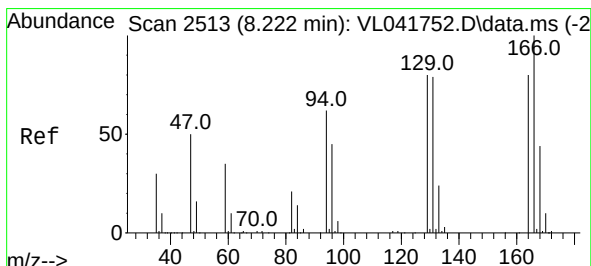
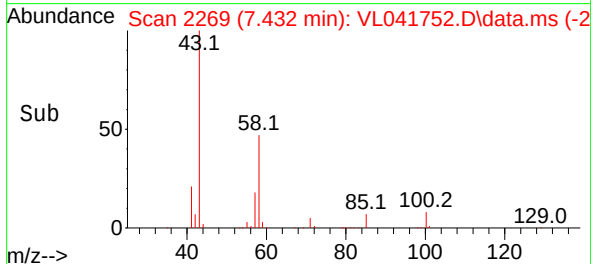
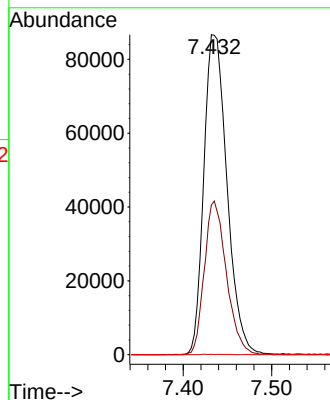
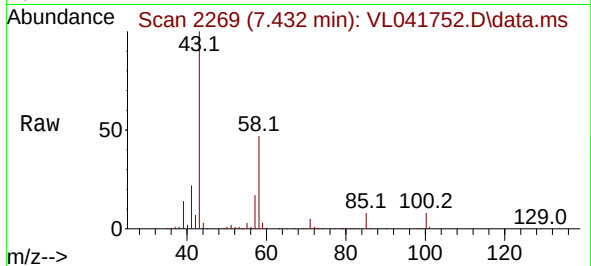
#51
2-Hexanone
Concen: 9.650 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 157473
Ion Ratio Lower Upper
43 100
58 45.8 36.6 55.0
98 0.1 0.1 0.1

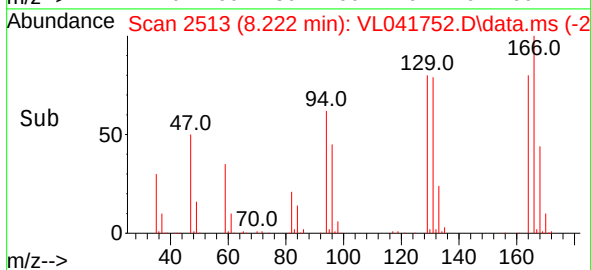
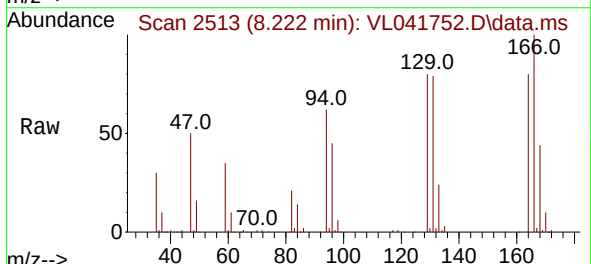
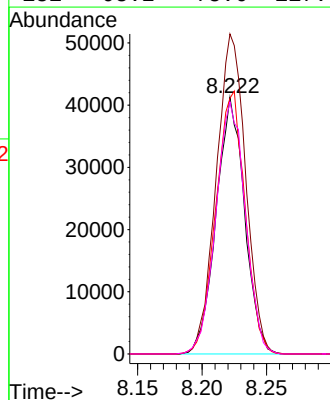
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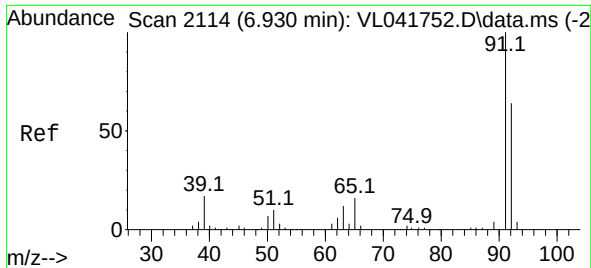
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#52
Tetrachloroethene
Concen: 8.901 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:164 Resp: 62989
Ion Ratio Lower Upper
164 100
166 124.7 99.8 149.6
129 99.5 79.6 119.4
131 98.2 78.6 117.8





#53

Toluene

Concen: 9.574 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 206354

Ion Ratio Lower Upper

91 100

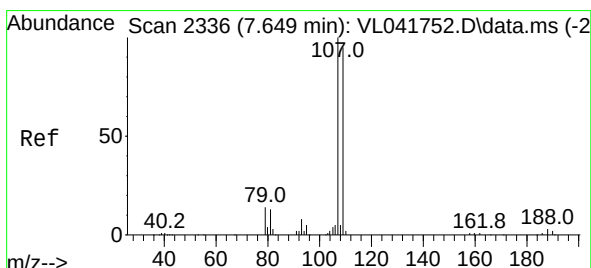
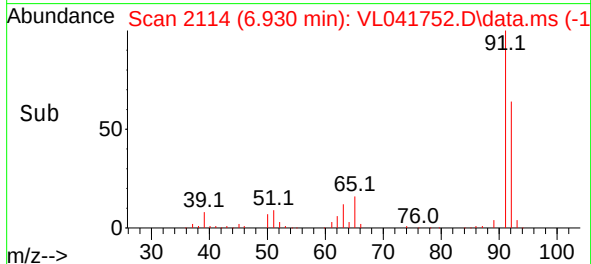
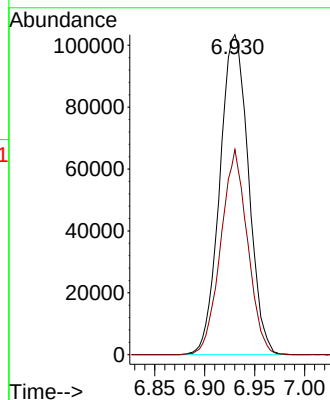
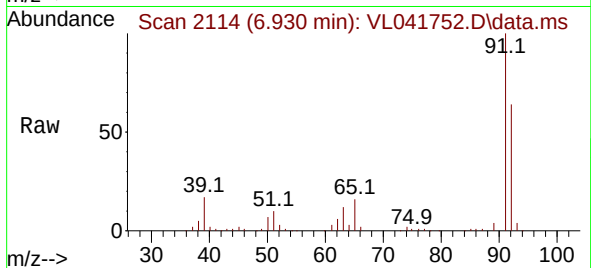
92 59.9 47.9 71.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 9.501 ppbv

RT: 7.649 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VL041752.D

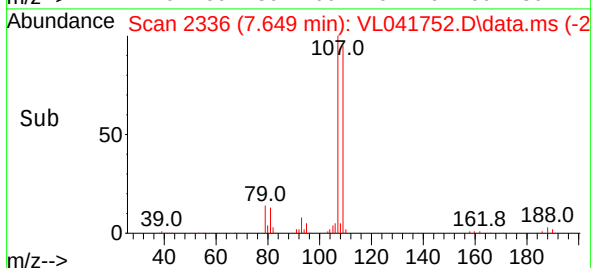
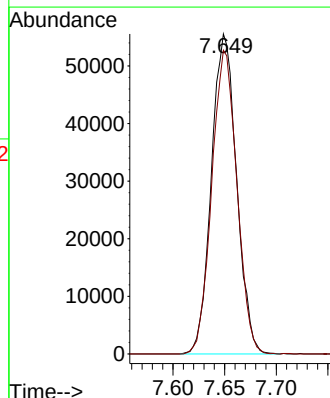
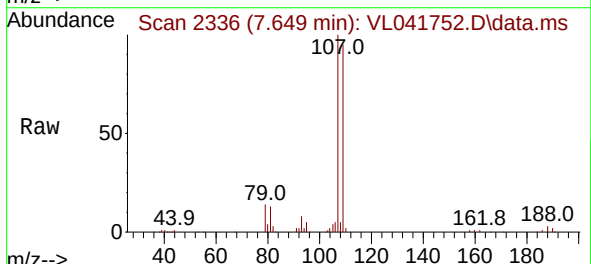
Acq: 16 Dec 2024 13:30

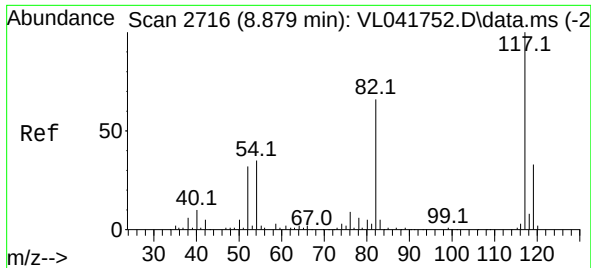
Tgt Ion:107 Resp: 94016

Ion Ratio Lower Upper

107 100

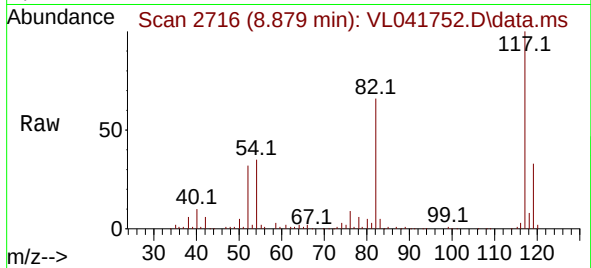
109 94.9 75.9 113.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

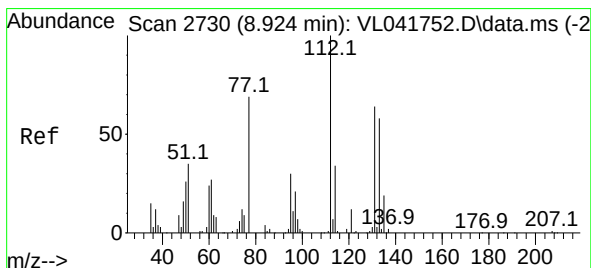
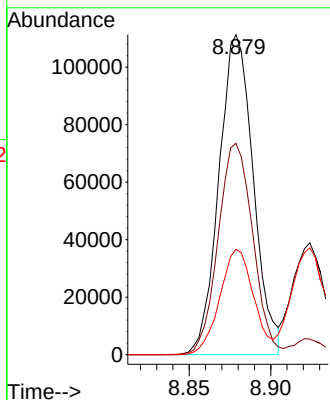
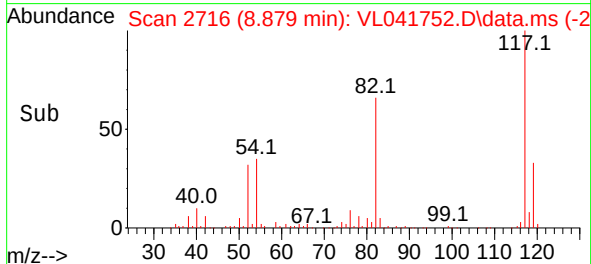
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 163333
Ion Ratio Lower Upper
117 100
82 67.3 53.8 80.8
119 33.4 26.7 40.1

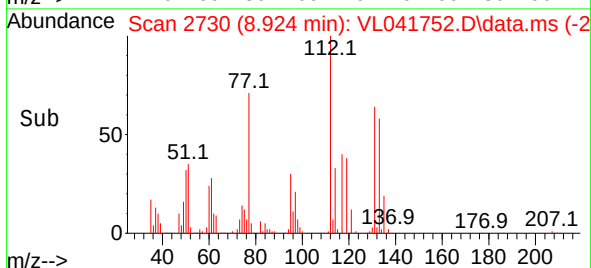
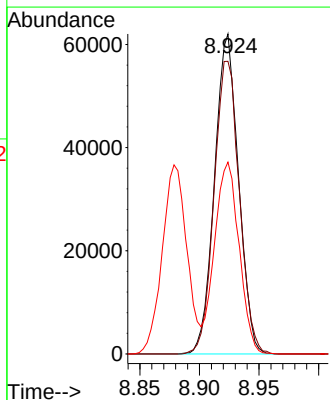
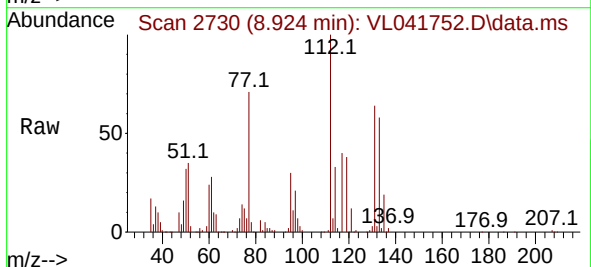
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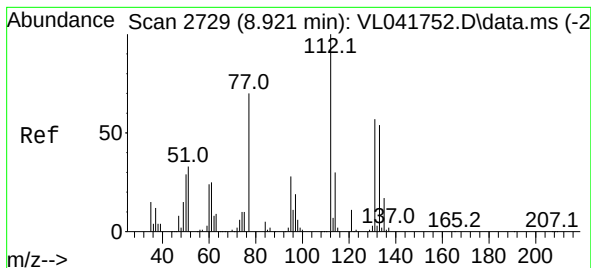
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#56
1,1,1,2-Tetrachloroethane
Concen: 10.027 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:131 Resp: 86831
Ion Ratio Lower Upper
131 100
133 96.0 76.8 115.2
119 61.3 49.0 73.6





#57

Chlorobenzene

Concen: 9.295 ppbv

RT: 8.921 min Scan# 2729

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:112 Resp: 155349

Ion Ratio Lower Upper

112 100

77 71.7 57.4 86.0

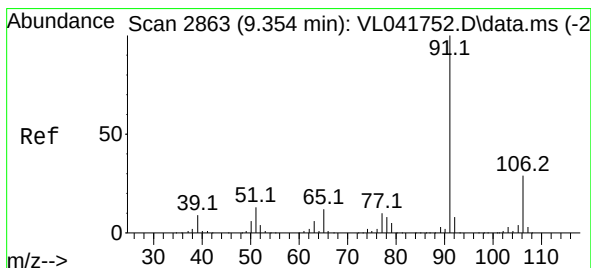
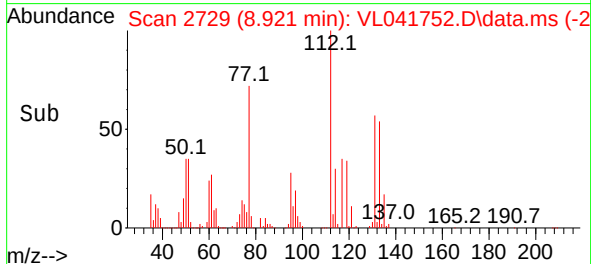
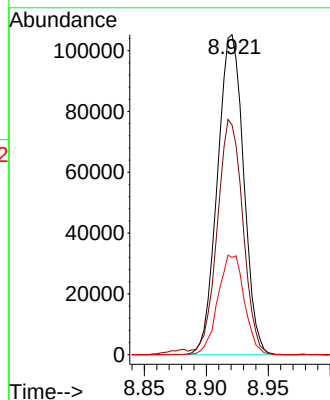
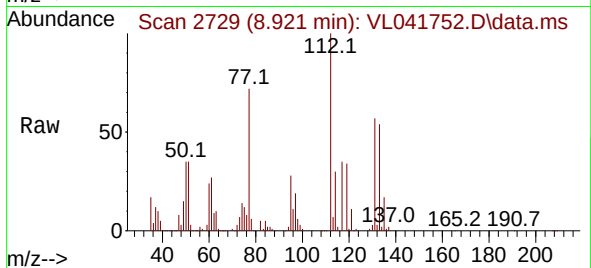
114 30.4 27.4 33.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#58

Ethyl Benzene

Concen: 9.853 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.000 min

Lab File: VL041752.D

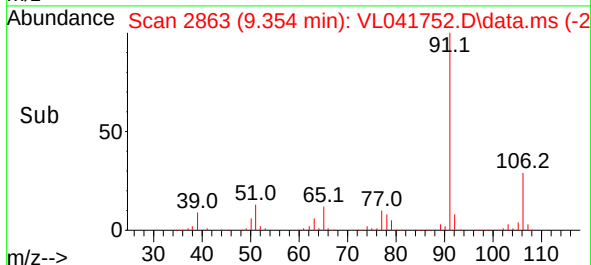
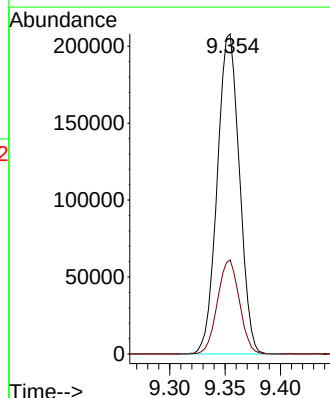
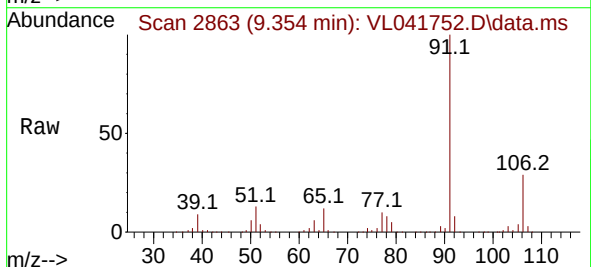
Acq: 16 Dec 2024 13:30

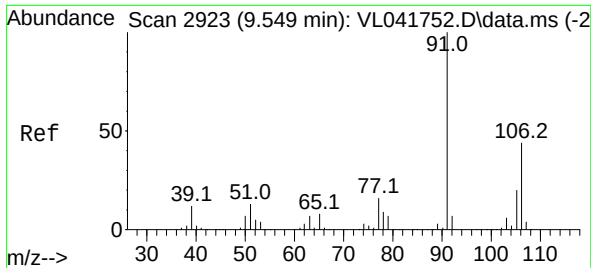
Tgt Ion: 91 Resp: 289734

Ion Ratio Lower Upper

91 100

106 29.4 23.5 35.3





#59

m/p-Xylene

Concen: 19.568 ppbv m

RT: 9.549 min Scan# 2923

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 46280

Ion Ratio Lower Upper

91 100

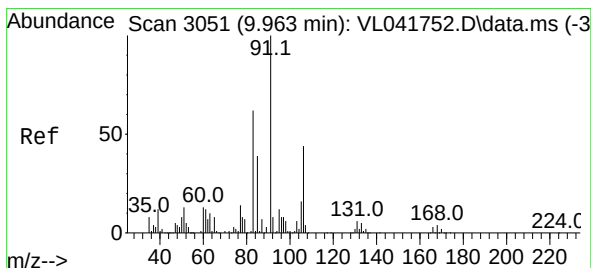
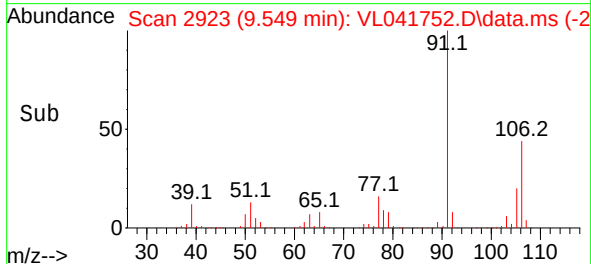
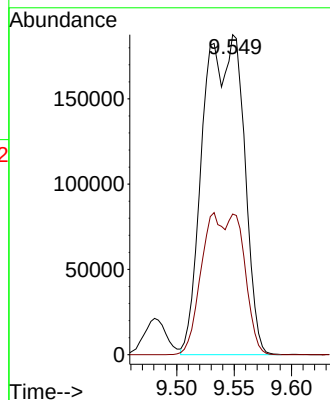
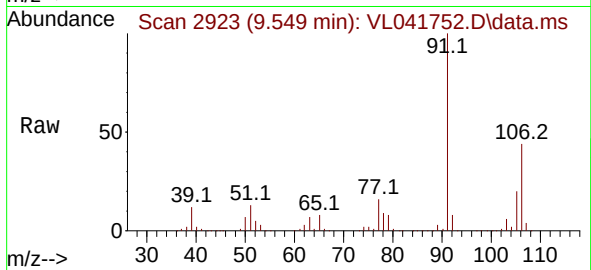
106 0.0 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#60

o-Xylene

Concen: 9.789 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL041752.D

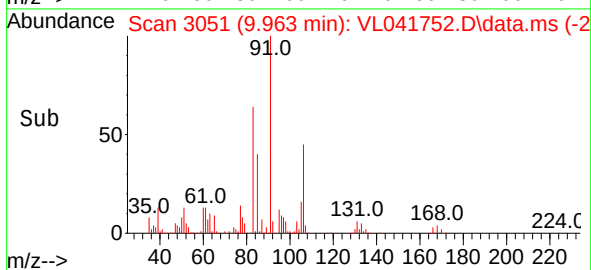
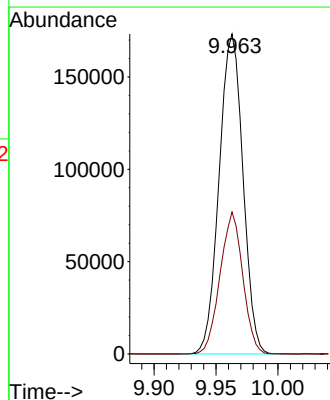
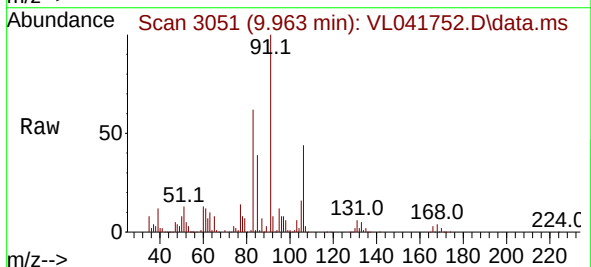
Acq: 16 Dec 2024 13:30

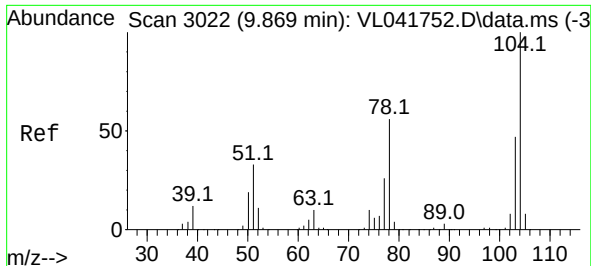
Tgt Ion: 91 Resp: 232101

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4





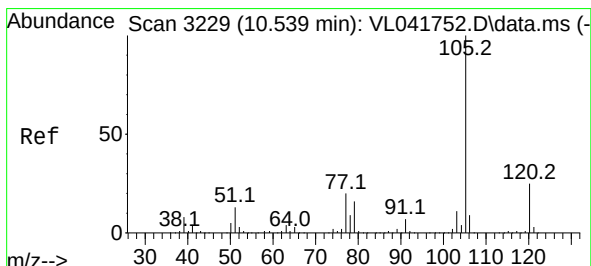
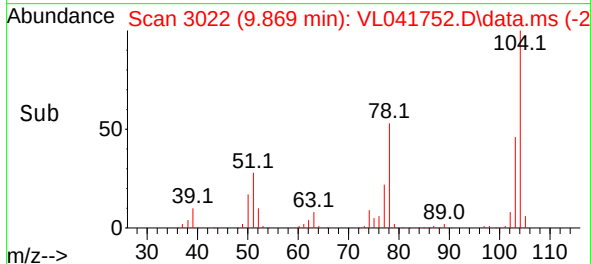
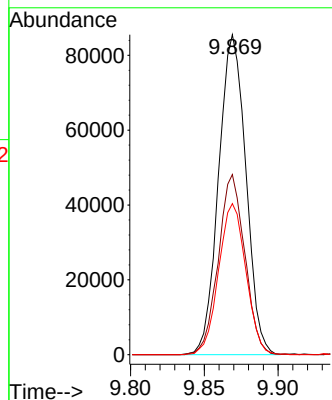
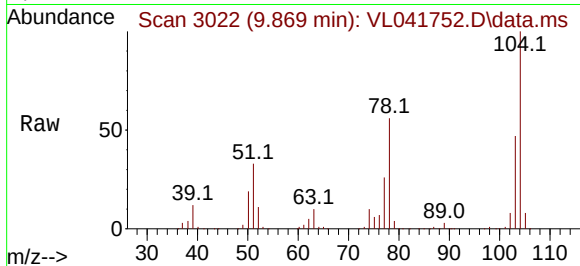
#61
Styrene
Concen: 10.733 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 11004
Ion Ratio Lower Upper
104 100
78 54.7 43.8 65.6
103 47.2 37.8 56.6

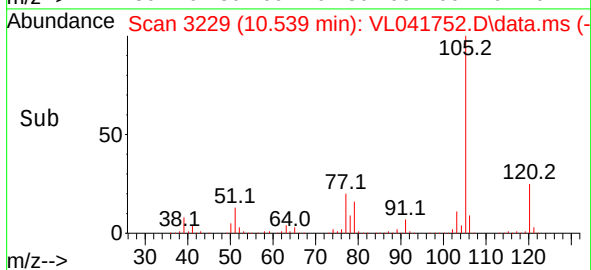
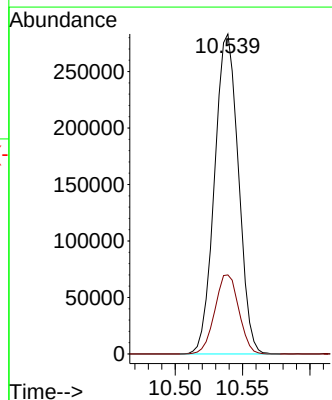
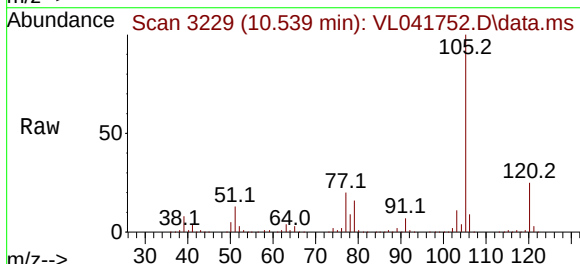
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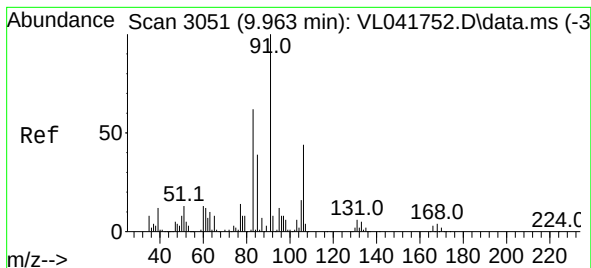
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#62
Isopropylbenzene
Concen: 9.788 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

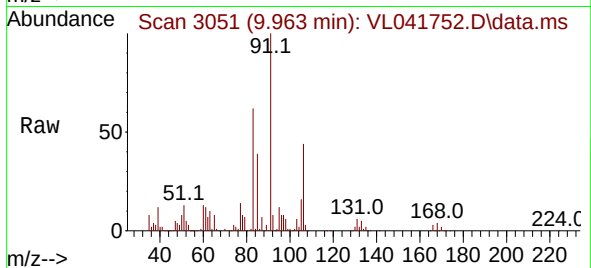
Tgt Ion:105 Resp: 348684
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 9.255 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

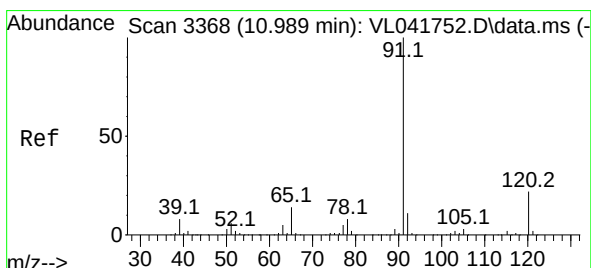
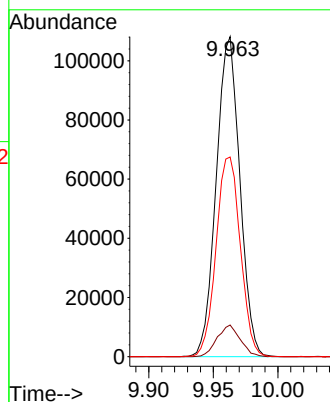
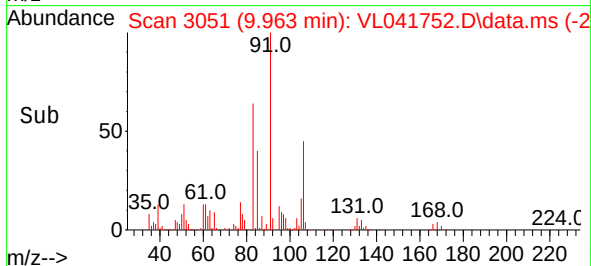
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 137363
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 64.1 32.0 96.2

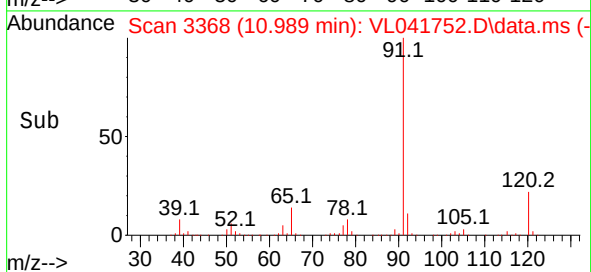
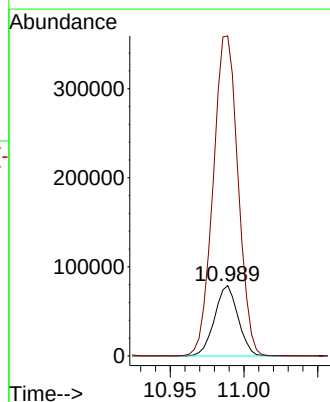
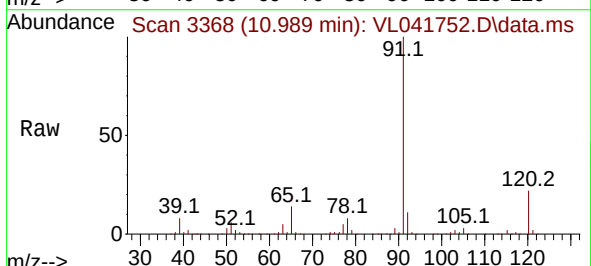
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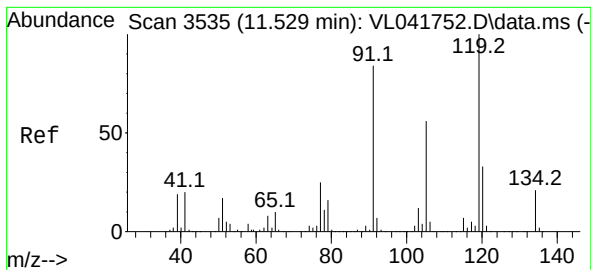
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#64
n-propylbenzene
Concen: 9.700 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

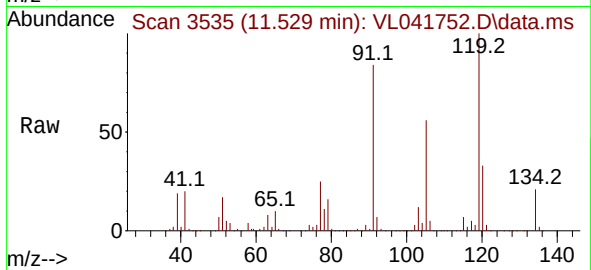
Tgt Ion:120 Resp: 87360
Ion Ratio Lower Upper
120 100
91 484.1 387.3 580.9





#65
tert-Butylbenzene
Concen: 9.615 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

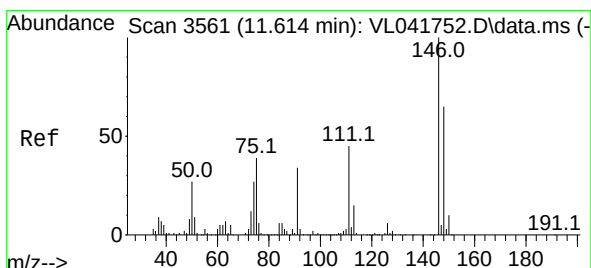
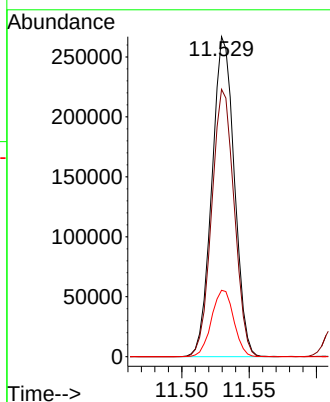
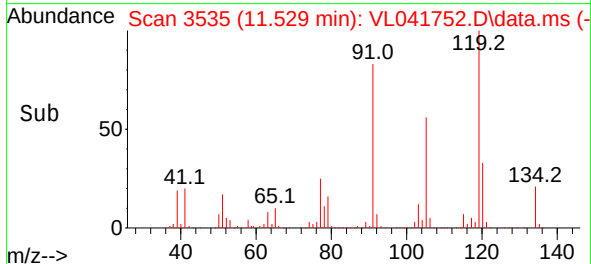
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



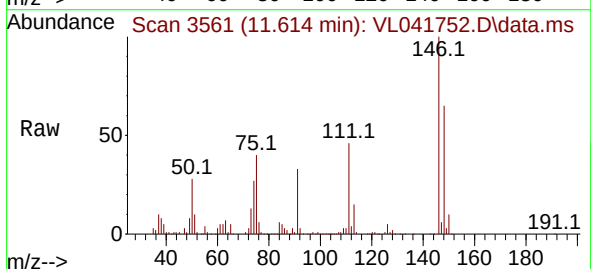
Tgt Ion:119 Resp: 309030
Ion Ratio Lower Upper
119 100
91 83.7 67.0 100.4
134 20.6 16.5 24.7

Manual Integrations
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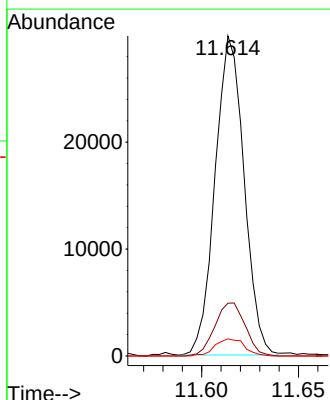
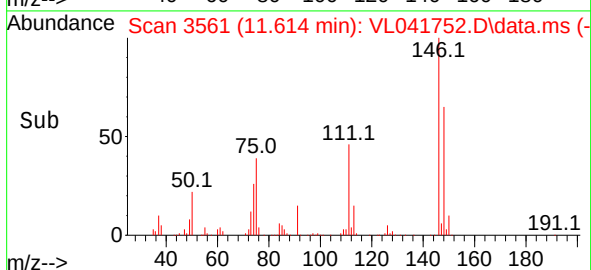
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

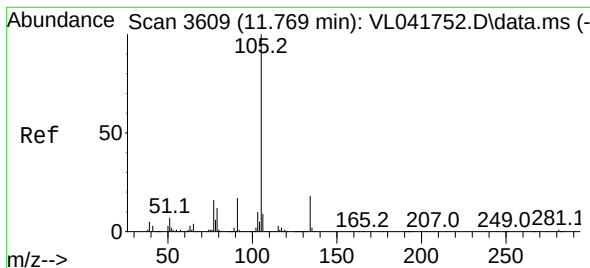


#66
Benzyl Chloride
Concen: 10.954 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



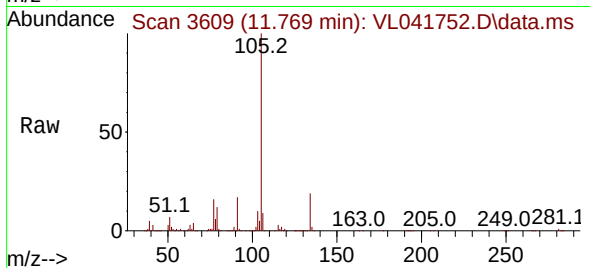
Tgt Ion: 91 Resp: 31039
Ion Ratio Lower Upper
91 100
126 17.4 13.9 20.9
128 5.5 4.4 6.6





#67
sec-Butylbenzene
Concen: 9.687 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

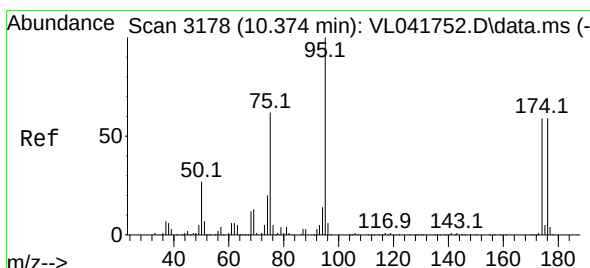
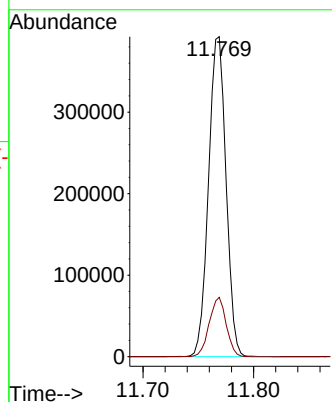
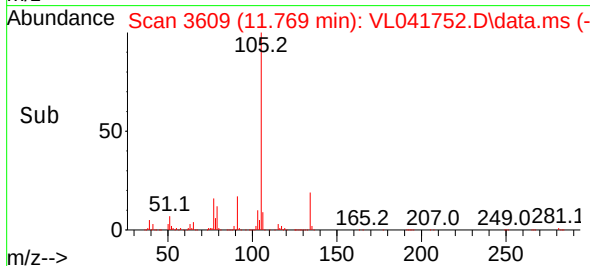
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:105 Resp: 430810
Ion Ratio Lower Upper
105 100
134 18.1 14.5 21.7

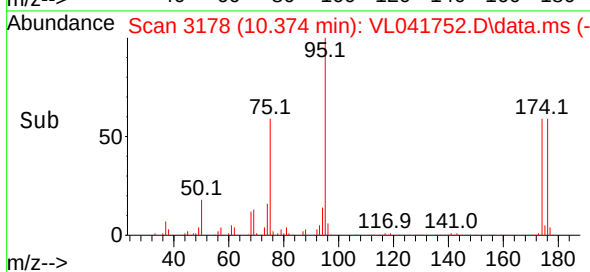
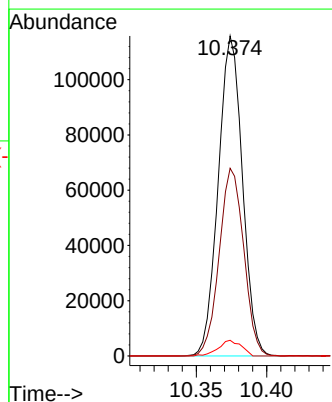
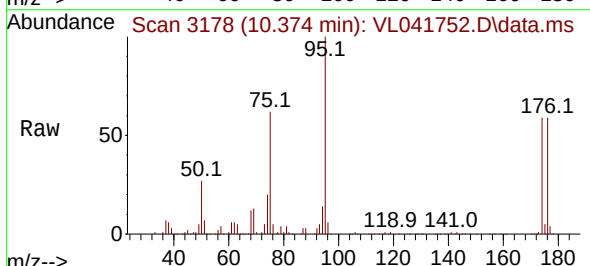
Manual Integrations
APPROVED

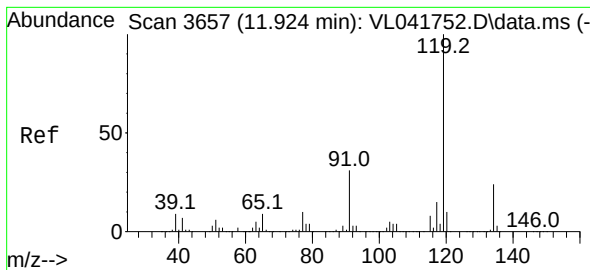
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.172 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

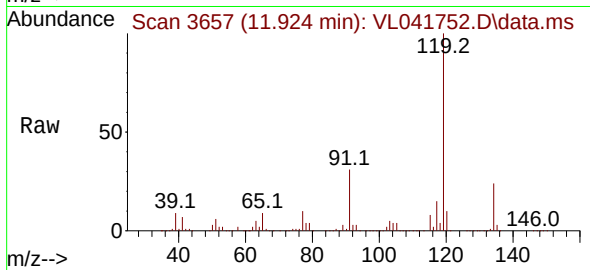
Tgt Ion: 95 Resp: 138451
Ion Ratio Lower Upper
95 100
174 59.5 47.6 71.4
175 4.6 3.7 5.5





#69
p-Isopropyltoluene
Concen: 9.906 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

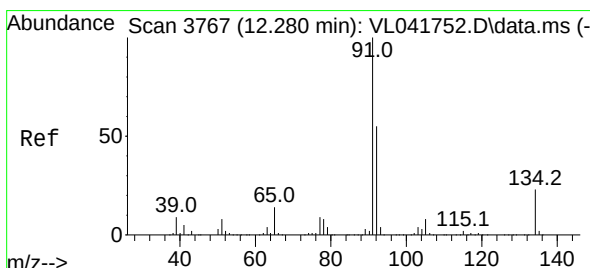
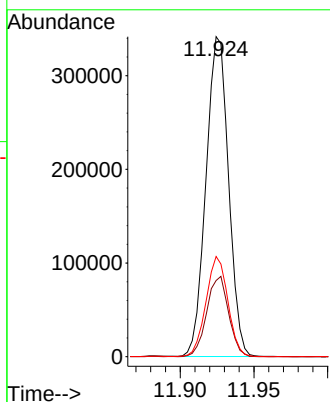
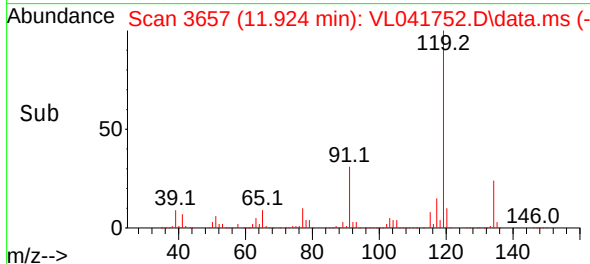
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



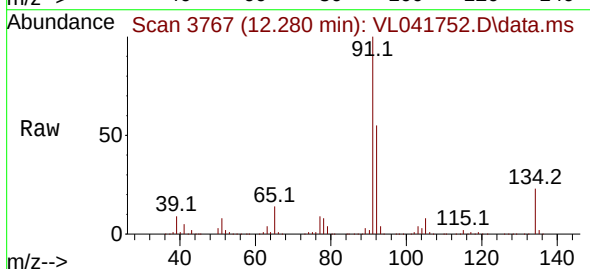
Tgt Ion: 119 Resp: 363072
Ion Ratio Lower Upper
119 100
134 24.5 19.6 29.4
91 30.5 24.4 36.6

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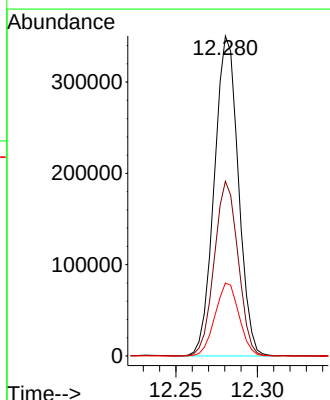
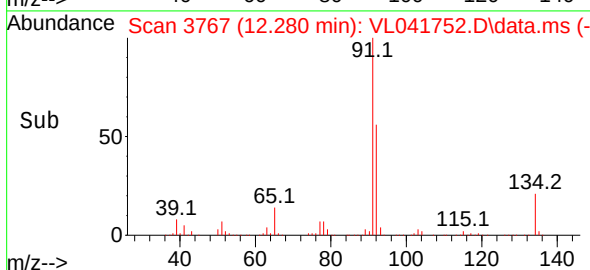
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

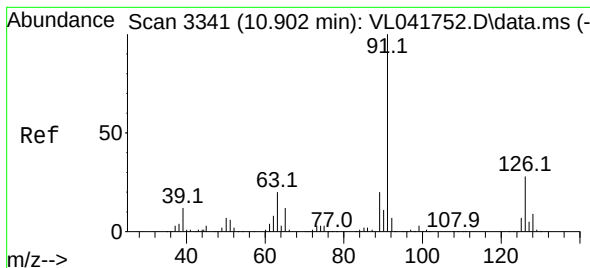


#70
n-Butylbenzene
Concen: 10.137 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



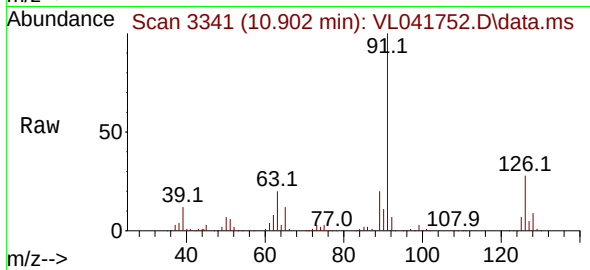
Tgt Ion: 91 Resp: 358993
Ion Ratio Lower Upper
91 100
92 54.0 43.2 64.8
134 22.8 18.2 27.4





#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

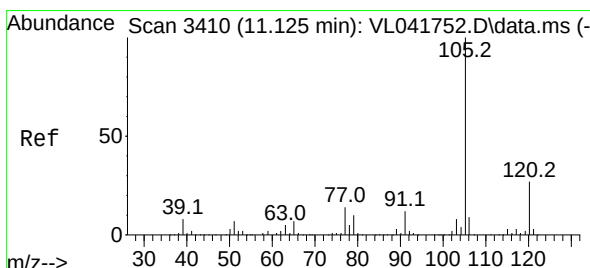
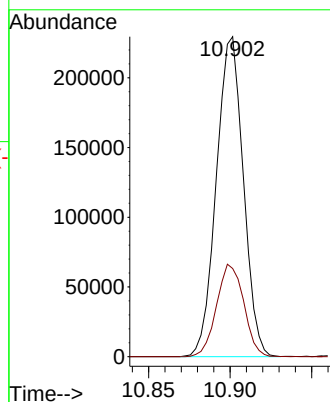
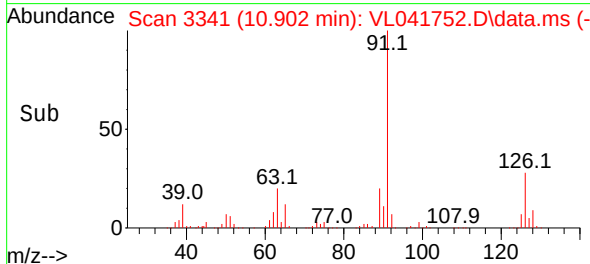
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



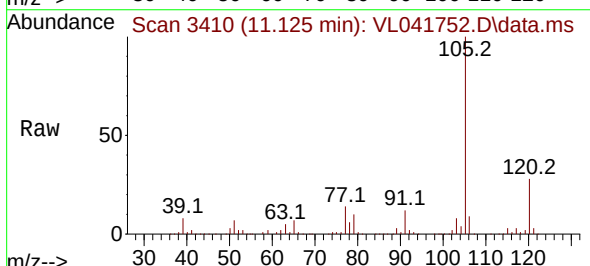
Tgt Ion: 91 Resp: 264002
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

Manual Integrations
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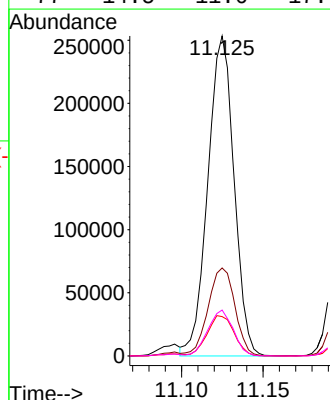
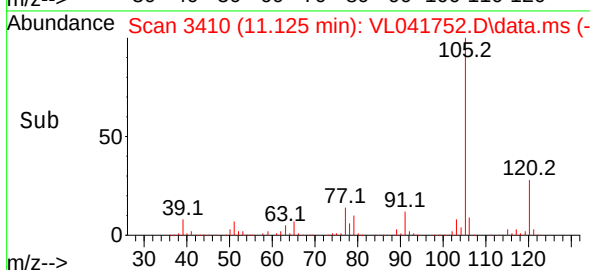
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

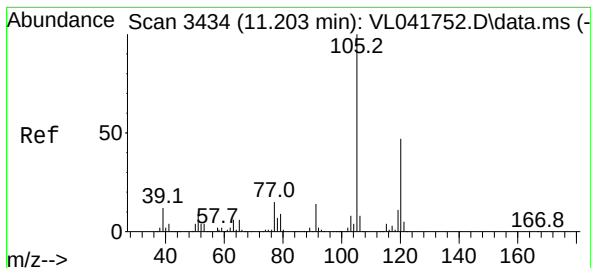


#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



Tgt Ion:105 Resp: 282698
Ion Ratio Lower Upper
105 100
120 29.1 23.3 34.9
91 13.6 10.9 16.3
77 14.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 10.304 ppbv

RT: 11.203 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 23926

Ion Ratio Lower Upper

105 100

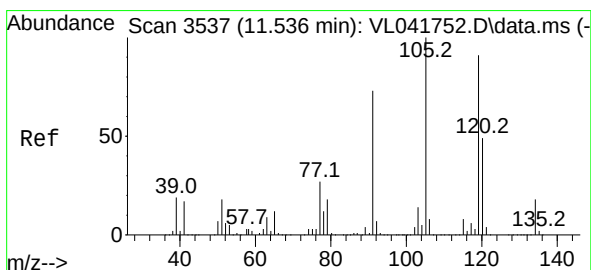
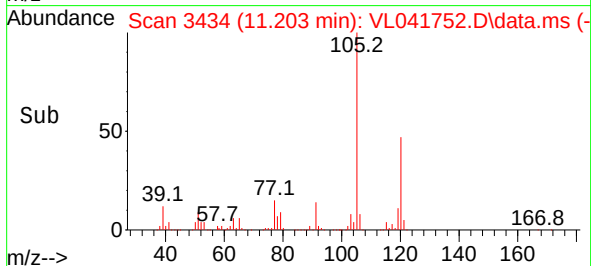
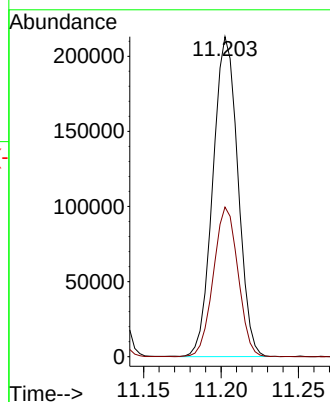
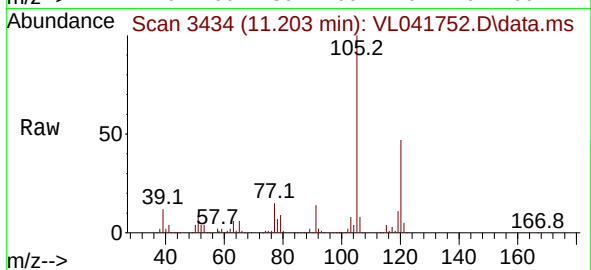
120 46.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 10.244 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion:105 Resp: 255780

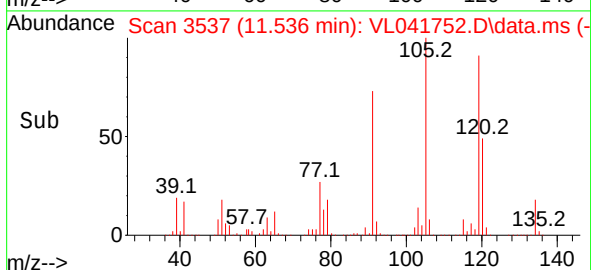
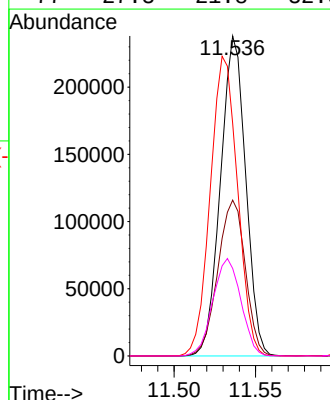
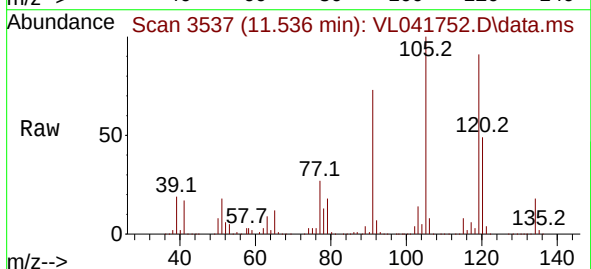
Ion Ratio Lower Upper

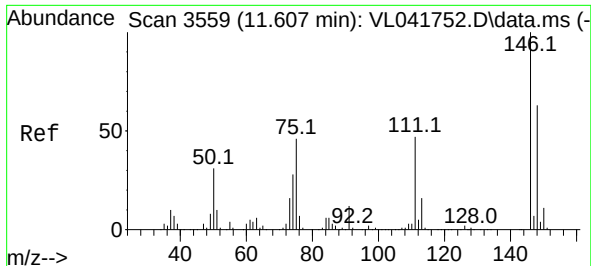
105 100

120 48.7 39.0 58.4

91 72.6 58.1 87.1

77 27.3 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 9.532 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

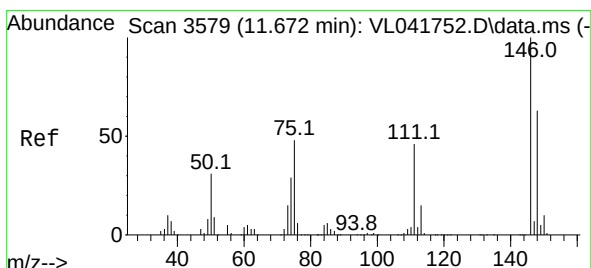
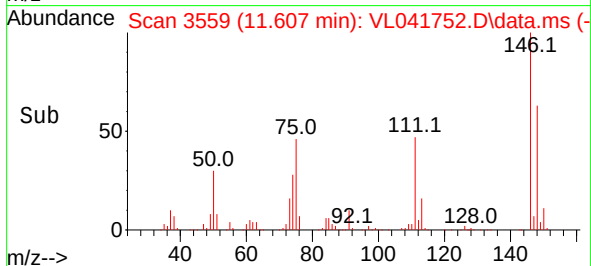
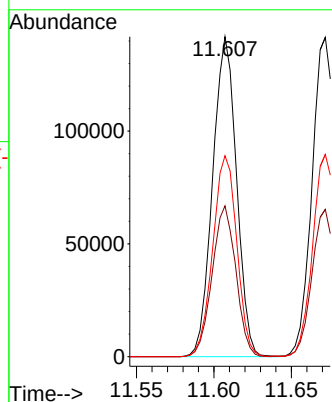
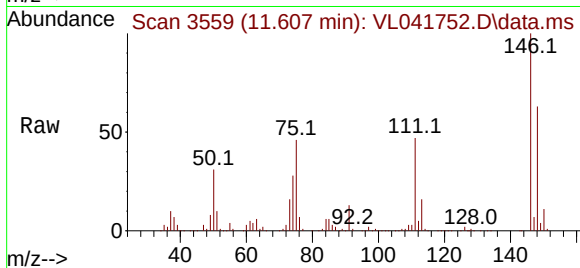
VSTDICCC010

Tgt Ion:146 Resp: 151752
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.4 70.3
 148 63.3 31.6 95.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#76

1,4-Dichlorobenzene

Concen: 9.671 ppbv

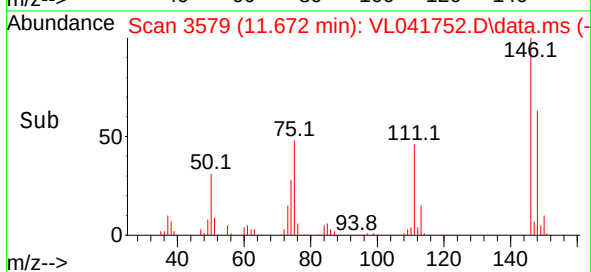
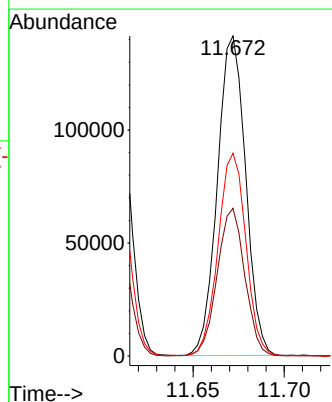
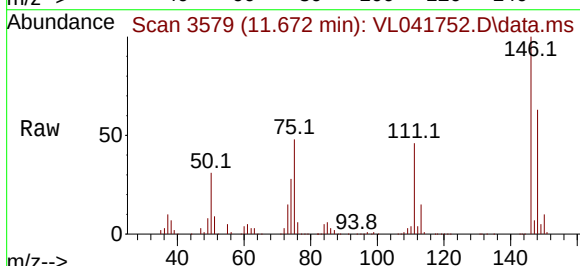
RT: 11.672 min Scan# 3579

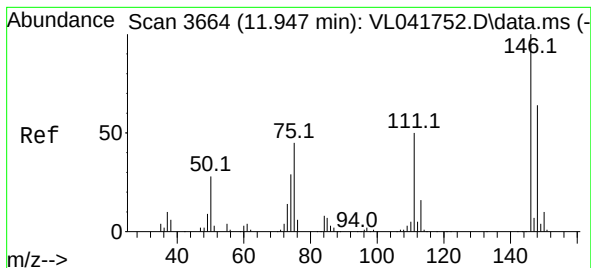
Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion:146 Resp: 152099
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.7 68.1
 148 62.7 31.4 94.0





#77

1,2-Dichlorobenzene

Concen: 9.227 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 141338

Ion Ratio Lower Upper

146 100

111 49.5 24.8 74.3

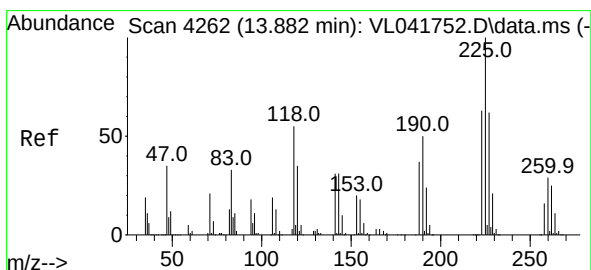
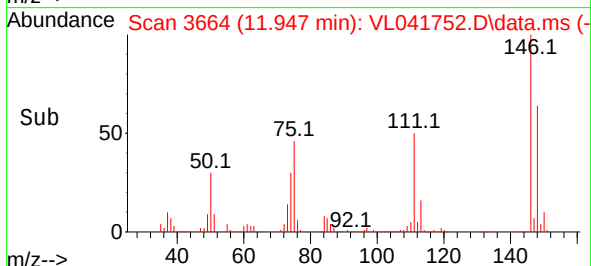
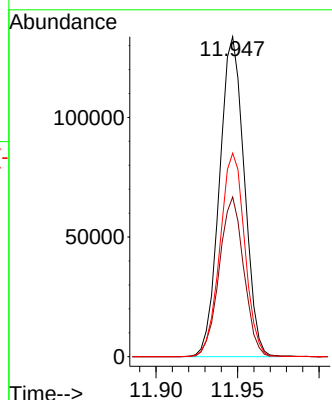
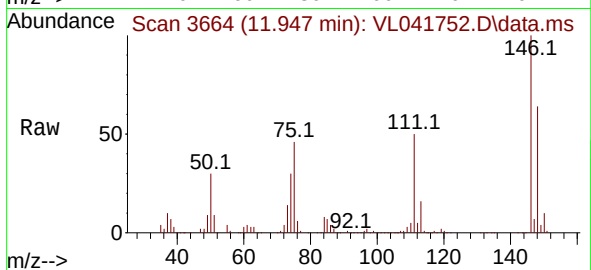
148 63.6 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#78

Hexachloro-1,3-Butadiene

Concen: 8.431 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

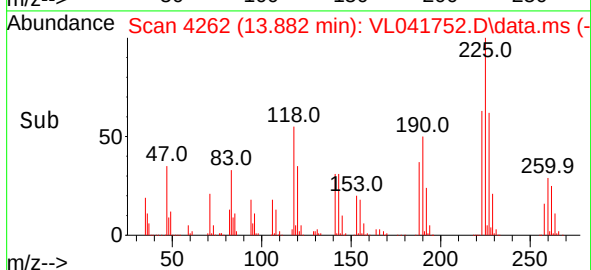
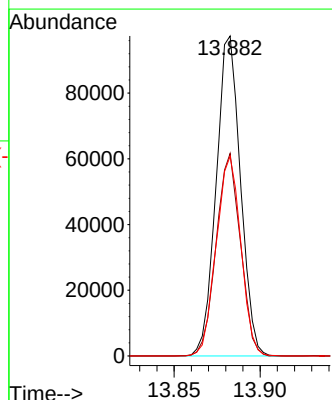
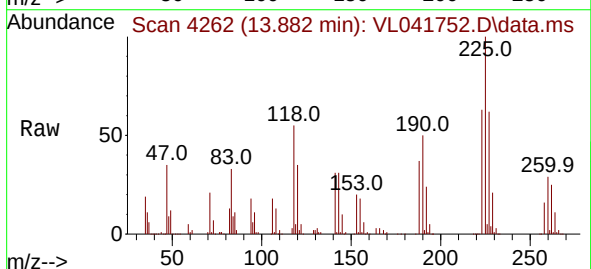
Tgt Ion:225 Resp: 95751

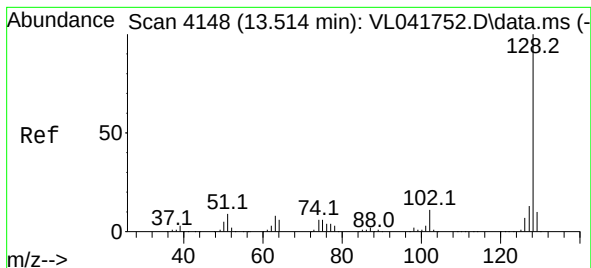
Ion Ratio Lower Upper

225 100

223 63.1 50.5 75.7

227 62.9 50.3 75.5





#79

Naphthalene

Concen: 11.812 ppbv

RT: 13.514 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

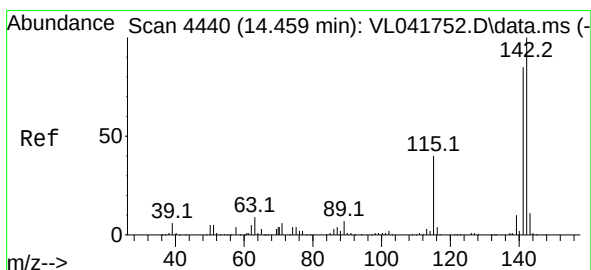
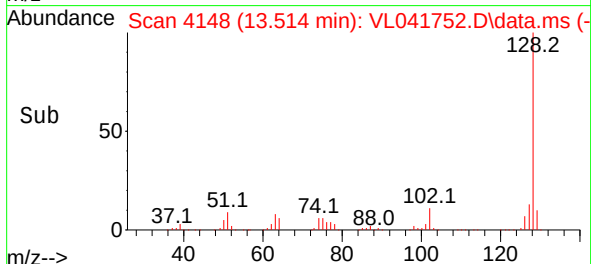
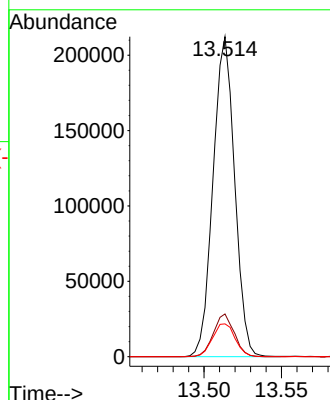
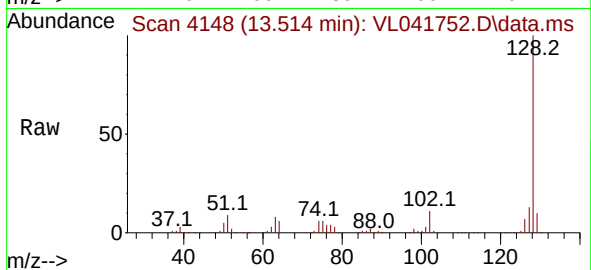
VSTDICCC010

Tgt Ion:128 Resp: 205511
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.7 16.1
 129 10.3 8.2 12.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#80

Naphthalene,2-methyl-

Concen: 19.755 ppbv

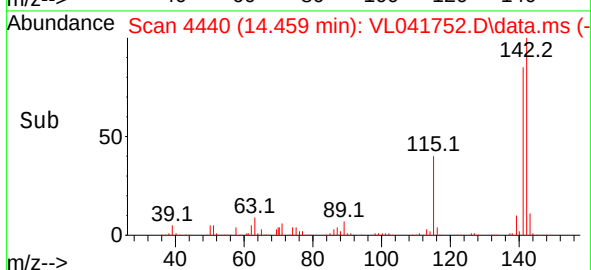
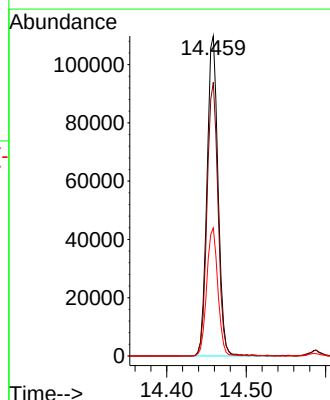
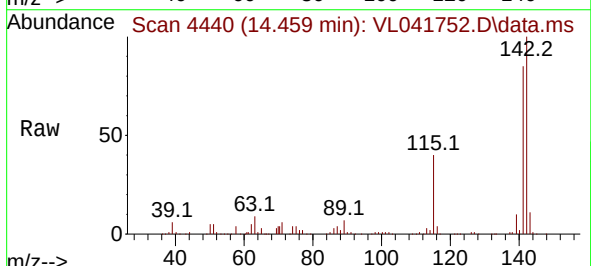
RT: 14.459 min Scan# 4440

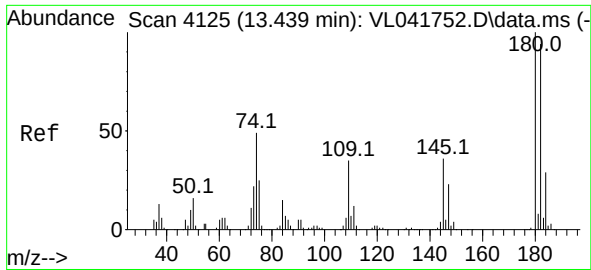
Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

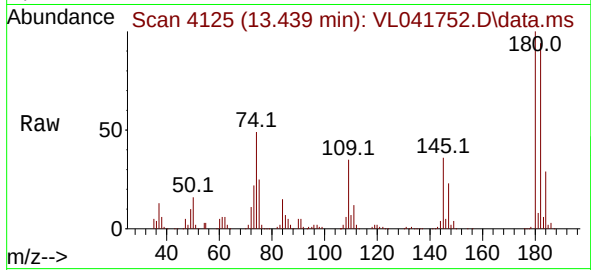
Tgt Ion:142 Resp: 106311
 Ion Ratio Lower Upper
 142 100
 141 85.5 68.4 102.6
 115 40.6 32.5 48.7





#81
1,2,4-Trichlorobenzene
Concen: 10.672 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

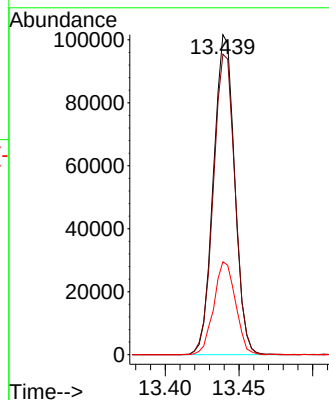
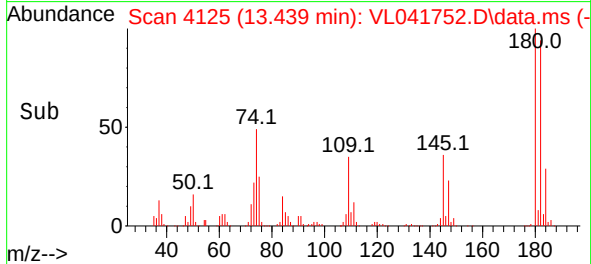
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:180 Resp: 10146
Ion Ratio Lower Upper
180 100
182 96.3 77.0 115.6
184 29.8 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Dec 19 06:12:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.787	49	67443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	182992	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	163971	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	138312	10.122	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.499	85	24819	2.068	ppbv	98
3) Chlorodifluoromethane	1.476	51	22299	2.027	ppbv	96
4) Chloromethane	1.531	50	9926	2.114	ppbv	99
5) Vinyl Chloride	1.580	62	9300	1.966	ppbv	99
6) Bromomethane	1.667	94	4625	2.072	ppbv	99
7) Chloroethane	1.706	64	4003	2.178	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	21791	2.029	ppbv	100
9) Propene	1.483	41	10115	2.122	ppbv	97
10) Heptane	4.978	43	25297	2.066	ppbv	100
11) Trichlorofluoromethane	1.878	101	26208	2.056	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	19770	2.039	ppbv	99
13) Ethanol	1.722	45	792	1.998	ppbv #	49
14) Bromoethene	1.784	108	6527	1.994	ppbv #	90
15) Acetone	1.835	43	27613	2.104	ppbv	99
16) 1,3-Butadiene	1.609	39	10478	2.028	ppbv	96
17) tert-Butyl alcohol	2.043	59	26646	2.047	ppbv	99
18) 1,1-Dichloroethene	2.033	96	8389	2.064	ppbv	92
19) Isopropyl Alcohol	1.887	45	14937	1.897	ppbv	93
20) Methylene Chloride	2.062	84	7586	2.027	ppbv	94
21) Allyl Chloride	2.094	41	14731	2.070	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	9407	2.022	ppbv	94
23) Vinyl Acetate	2.463	43	17652	3.096	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	19070	2.025	ppbv	99
25) Ethyl Acetate	2.836	43	50510	2.059	ppbv	99
26) Hexane	2.826	57	19200	2.073	ppbv	98
27) Carbon Disulfide	2.153	76	16214	1.942	ppbv #	34
28) Methyl tert-Butyl Ether	2.441	73	15039	2.001	ppbv	98
29) Chloroform	2.849	83	28843	2.043	ppbv	98
30) Cyclohexane	3.858	84	16384	2.079	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	19688	2.057	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	28341	2.017	ppbv	98
34) 2-Butanone	2.557	43	31483	2.138	ppbv	99
35) Carbon Tetrachloride	3.765	117	27727	2.134	ppbv	98
36) Benzene	3.658	78	38759	2.048	ppbv	94
37) 1,2-Dichloroethane	3.221	62	23800	2.021	ppbv	98
38) Trichloroethene	4.548	130	15660	1.965	ppbv	94
39) 1,2-Dichloropropane	4.315	63	14197	2.074	ppbv	94
40) 1,4-Dioxane	4.603	88	6826m	2.041	ppbv	
41) Tetrahydrofuran	3.059	42	16665	2.021	ppbv	96
42) Bromodichloromethane	4.489	83	26716	1.972	ppbv	98
43) Methyl Methacrylate	4.884	69	14849	2.059	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	67432	2.086	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	14885	1.995	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:12:42 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

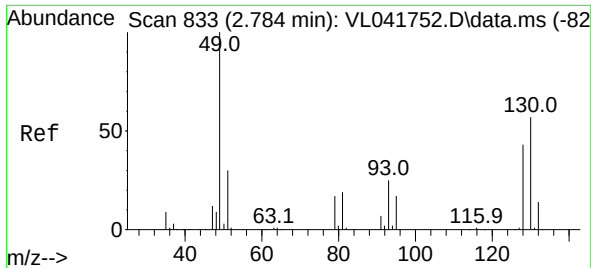
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	19105m	2.017	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	14858	2.078	ppbv	89
48) Dibromochloromethane	7.390	129	19764	2.024	ppbv	98
49) Bromoform	9.484	173	16200	2.027	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	42045	2.098	ppbv	97
51) 2-Hexanone	7.441	43	34878	2.147	ppbv #	98
52) Tetrachloroethene	8.225	164	13612	1.932	ppbv	93
53) Toluene	6.933	91	44470	2.072	ppbv	99
54) 1,2-Dibromoethane	7.655	107	19820	2.012	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.924	131	18613	2.141	ppbv	98
57) Chlorobenzene	8.920	112	35685	2.127	ppbv	99
58) Ethyl Benzene	9.354	91	63316	2.145	ppbv	97
59) m/p-Xylene	9.535	91	99821m	4.204	ppbv	
60) o-Xylene	9.966	91	51152	2.149	ppbv	99
61) Styrene	9.872	104	20842	2.025	ppbv	96
62) Isopropylbenzene	10.539	105	75206	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	29751	1.997	ppbv	100
64) n-propylbenzene	10.992	120	19146	2.117	ppbv	99
65) tert-Butylbenzene	11.532	119	68879	2.135	ppbv	98
66) Benzyl Chloride	11.617	91	5400	1.898	ppbv	99
67) sec-Butylbenzene	11.769	105	95968	2.149	ppbv	100
69) p-Isopropyltoluene	11.927	119	79236	2.153	ppbv	100
70) n-Butylbenzene	12.283	91	75430	2.122	ppbv	99
71) 2-Chlorotoluene	10.901	91	57724	2.114	ppbv	99
72) 4-Ethyltoluene	11.125	105	58841	2.098	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	48645	2.087	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	53084	2.118	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	32609	2.040	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	32527	2.060	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	32223	2.095	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	25358	2.224	ppbv	98
79) Naphthalene	13.513	128	37855	2.167	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	4482	0.830	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	19425	2.035	ppbv	99

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



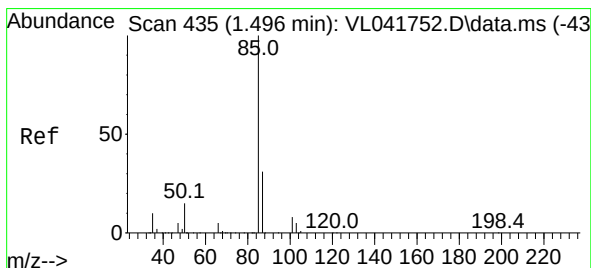
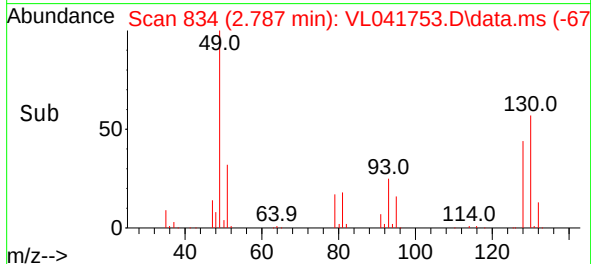
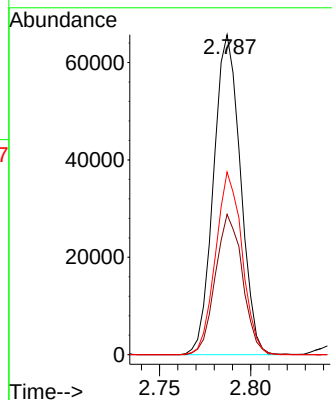
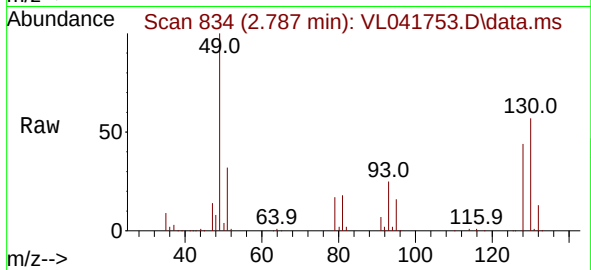
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 6744
Ion Ratio Lower Upper
49 100
128 44.1 21.6 64.6
130 56.3 28.3 85.0

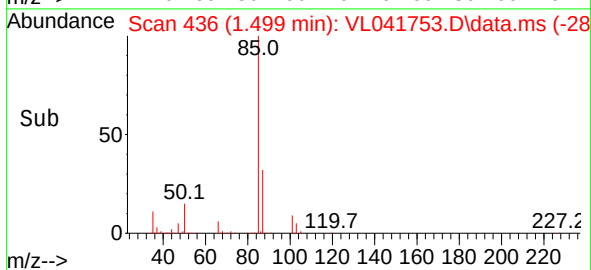
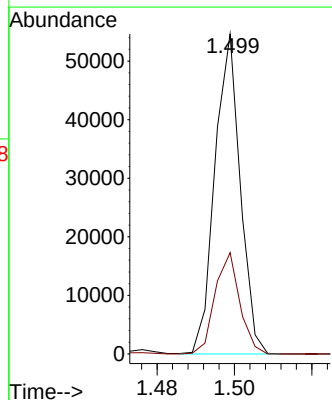
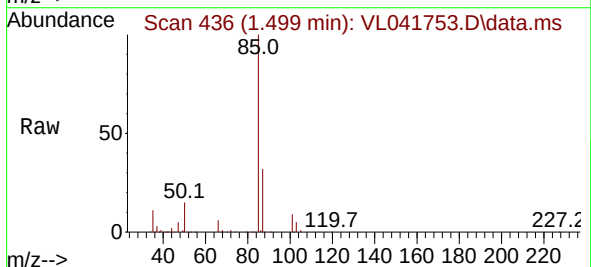
Manual Integrations
APPROVED

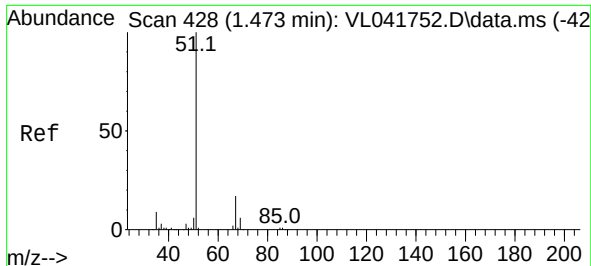
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

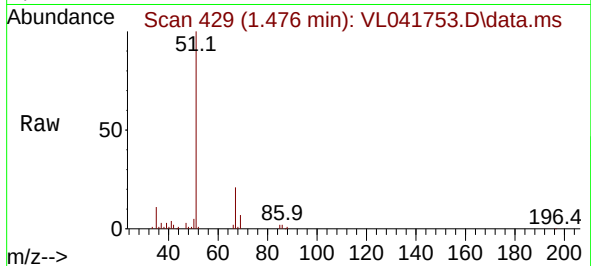
Tgt Ion: 85 Resp: 24819
Ion Ratio Lower Upper
85 100
87 31.6 24.5 36.7





#3
Chlorodifluoromethane
Concen: 2.027 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

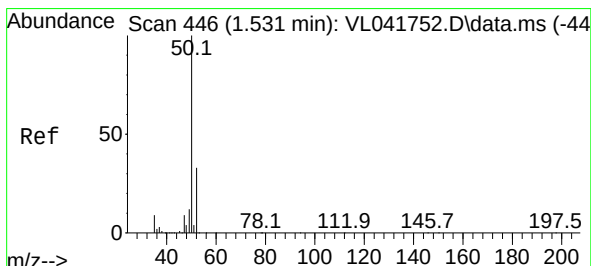
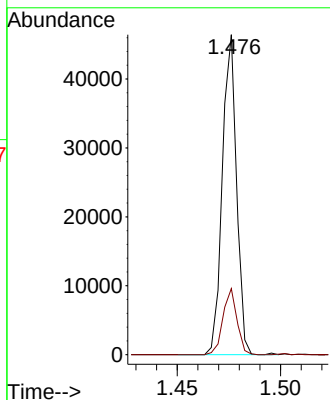
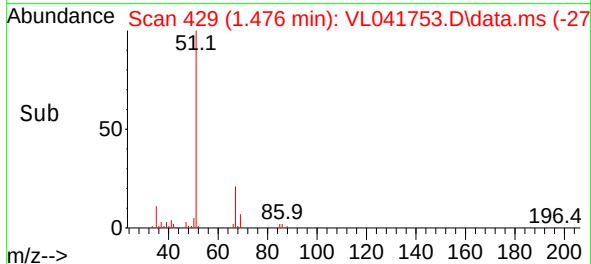
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 51 Resp: 22299
Ion Ratio Lower Upper
51 100
67 20.5 15.0 22.4

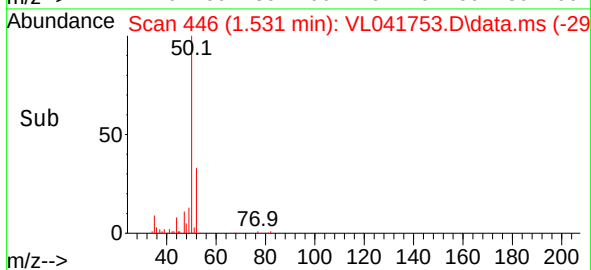
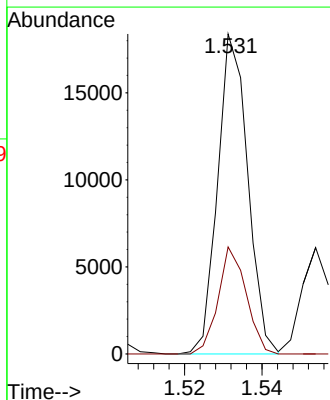
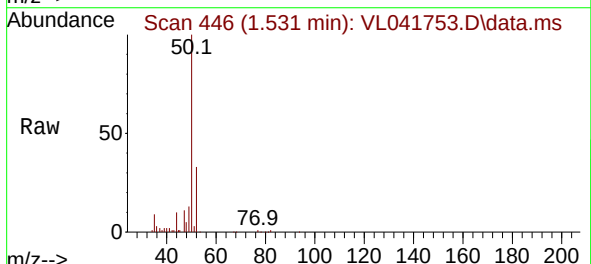
Manual Integrations
APPROVED

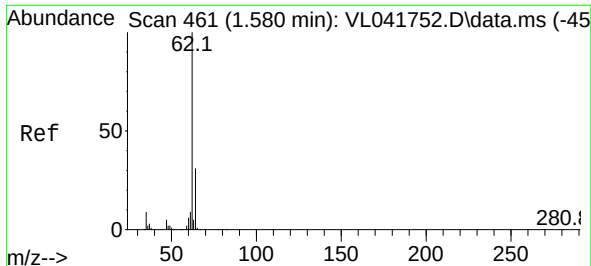
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 2.114 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

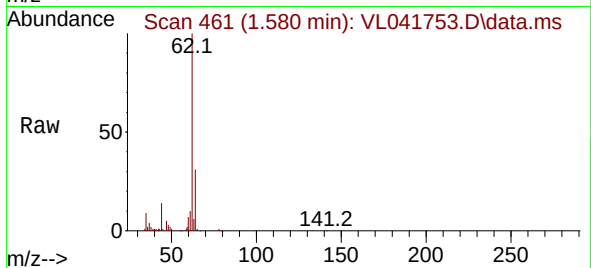
Tgt Ion: 50 Resp: 9926
Ion Ratio Lower Upper
50 100
52 33.5 26.2 39.2





#5
 Vinyl Chloride
 Concen: 1.966 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

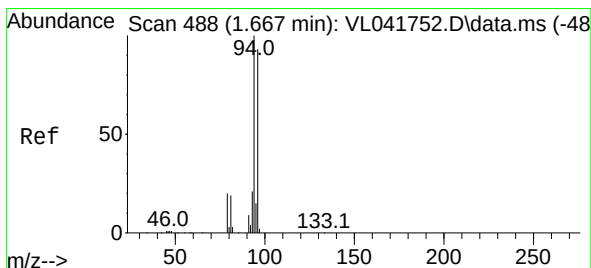
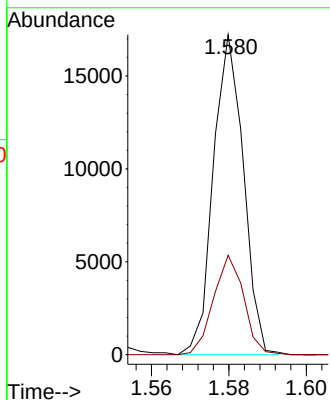
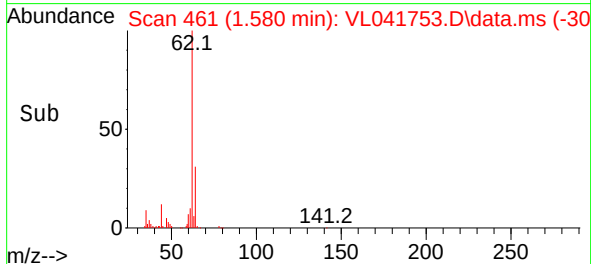
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



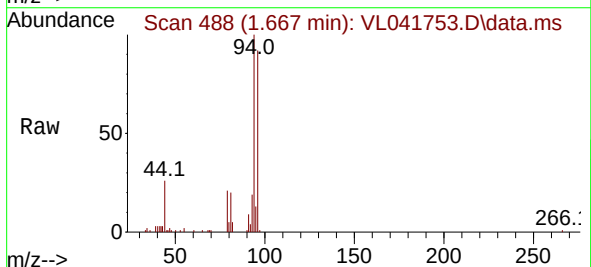
Tgt Ion: 62 Resp: 9300
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.1 37.7

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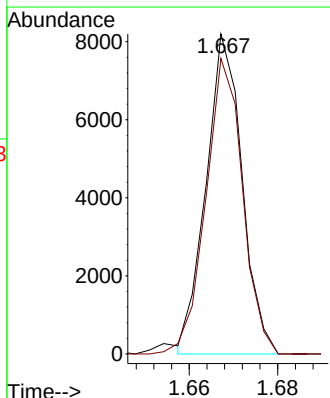
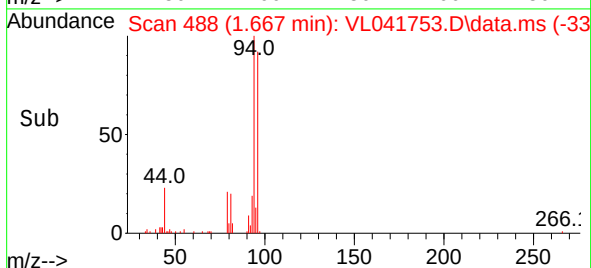
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

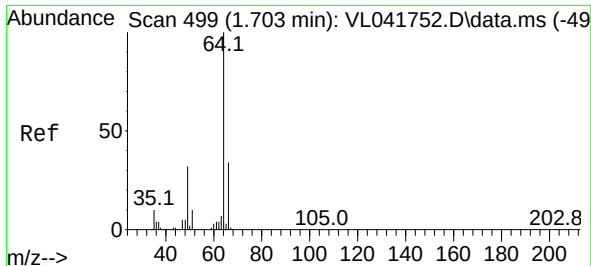


#6
 Bromomethane
 Concen: 2.072 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03



Tgt Ion: 94 Resp: 4625
 Ion Ratio Lower Upper
 94 100
 96 92.4 74.7 112.1





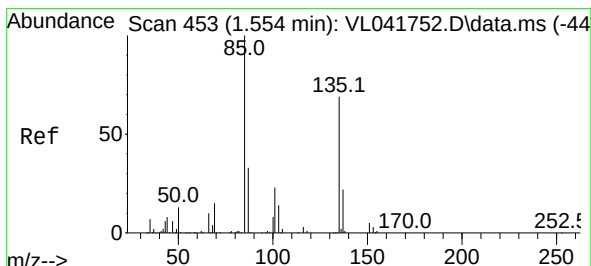
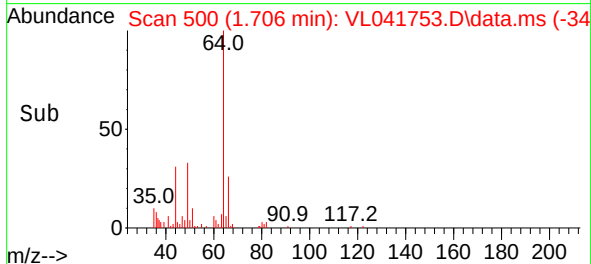
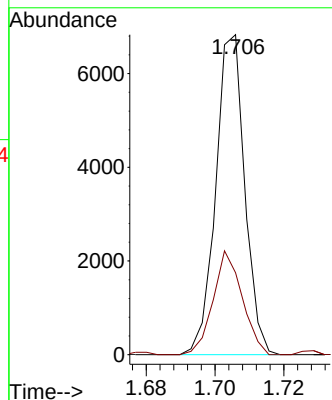
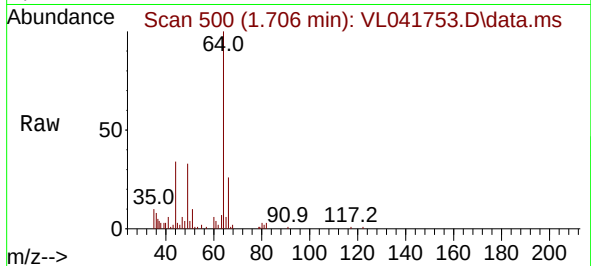
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Chloroethane
Concen: 2.178 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 64 Resp: 4000
Ion Ratio Lower Upper
64 100
66 25.6 27.5 41.3

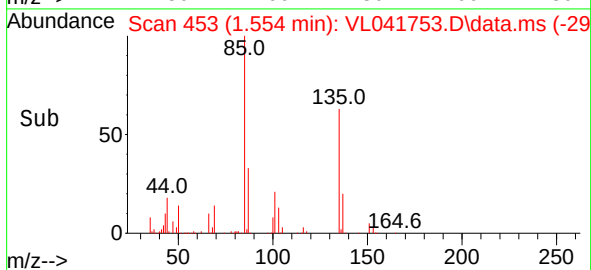
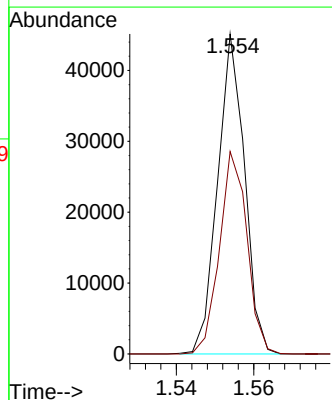
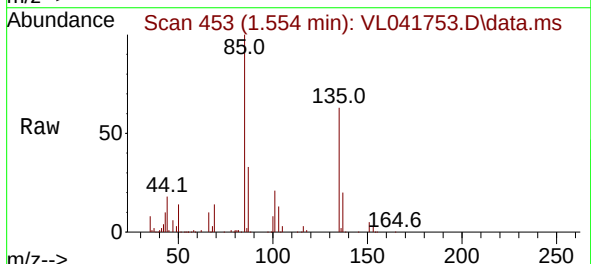
Manual Integrations
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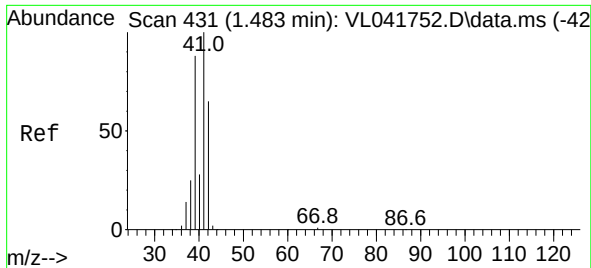
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 2.029 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 85 Resp: 21791
Ion Ratio Lower Upper
85 100
135 64.8 51.9 77.9





#9

Propene

Concen: 2.122 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1011

Ion Ratio Lower Upper

41 100

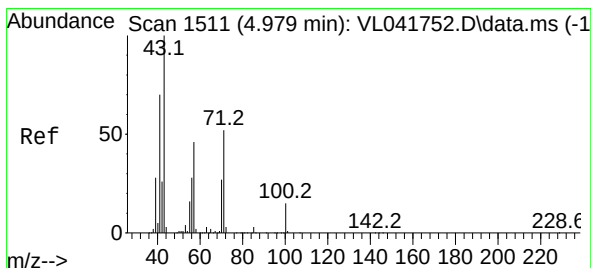
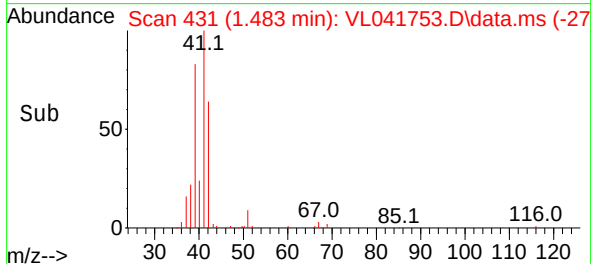
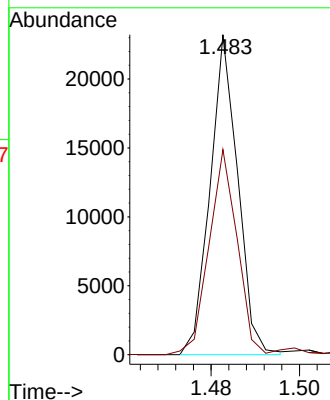
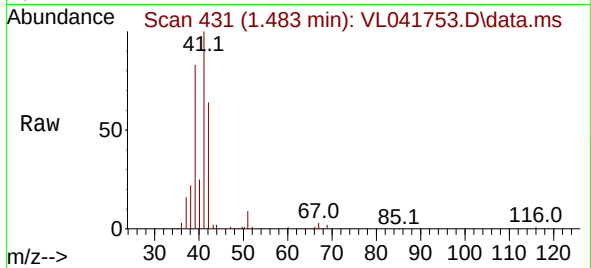
42 67.9 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#10

Heptane

Concen: 2.066 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL041753.D

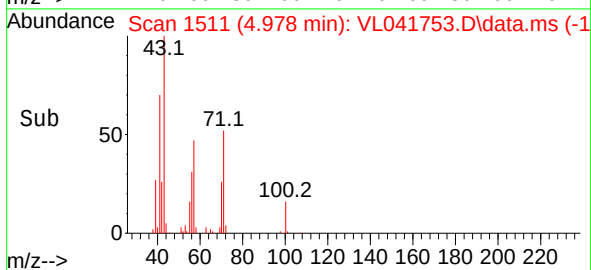
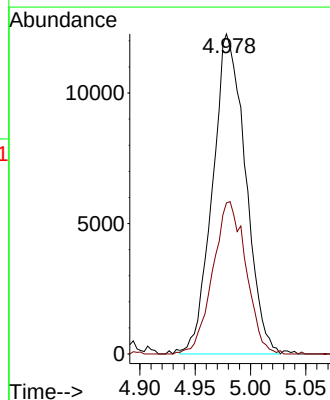
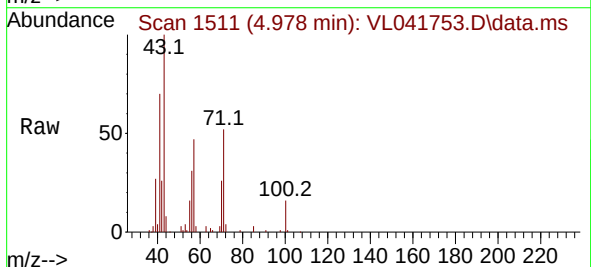
Acq: 16 Dec 2024 14:03

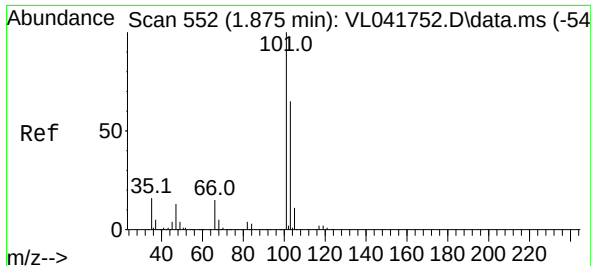
Tgt Ion: 43 Resp: 25297

Ion Ratio Lower Upper

43 100

57 48.1 38.5 57.7





#11

Trichlorofluoromethane

Concen: 2.056 ppbv

RT: 1.878 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:101 Resp: 26208

Ion Ratio Lower Upper

101 100

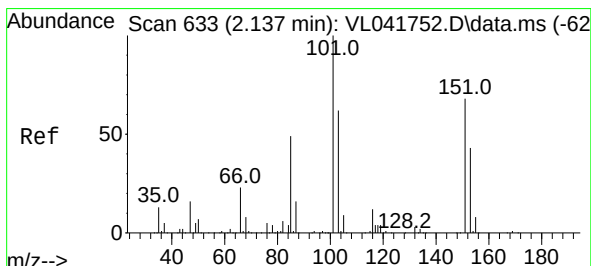
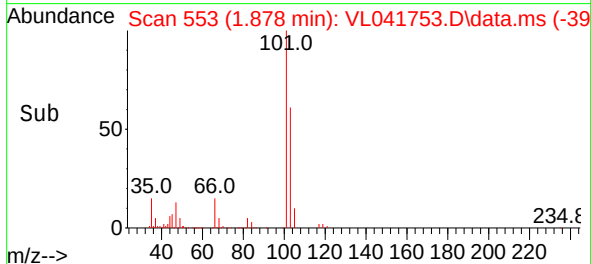
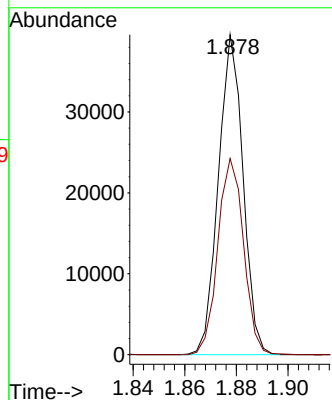
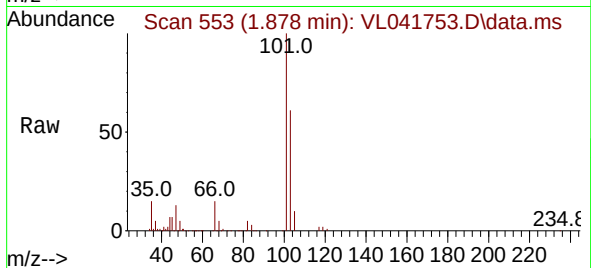
103 61.3 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.039 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL041753.D

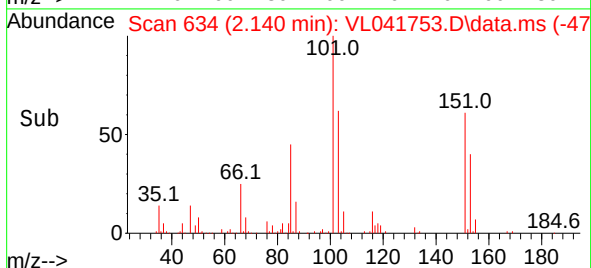
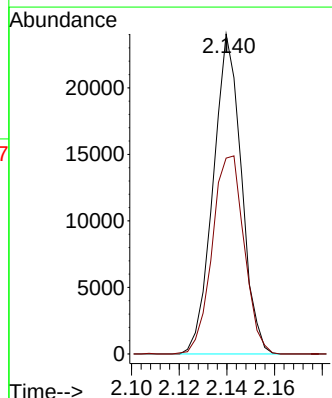
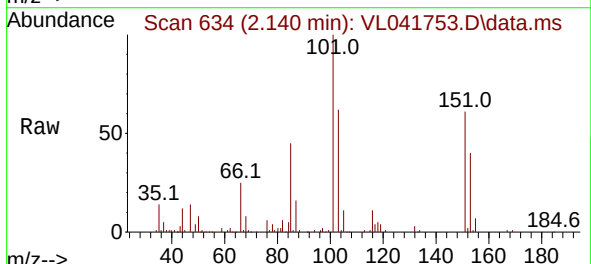
Acq: 16 Dec 2024 14:03

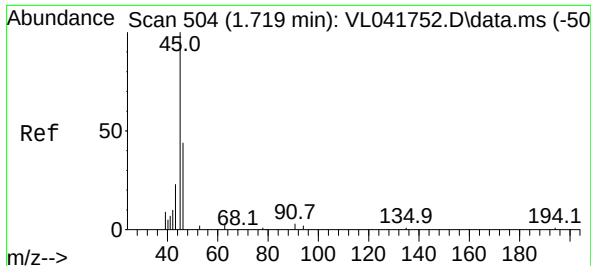
Tgt Ion:101 Resp: 19770

Ion Ratio Lower Upper

101 100

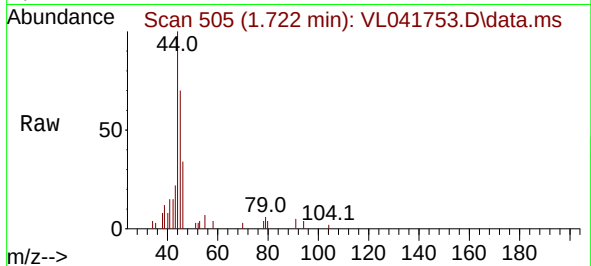
151 70.2 56.8 85.2





#13
Ethanol
Concen: 1.998 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

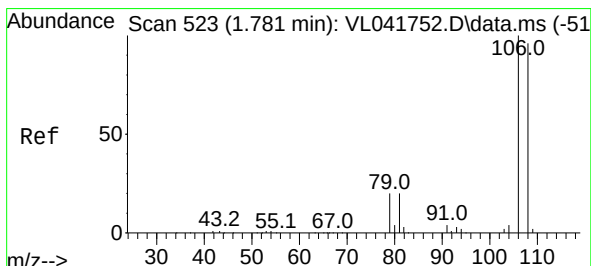
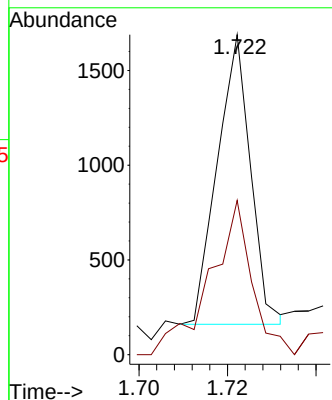
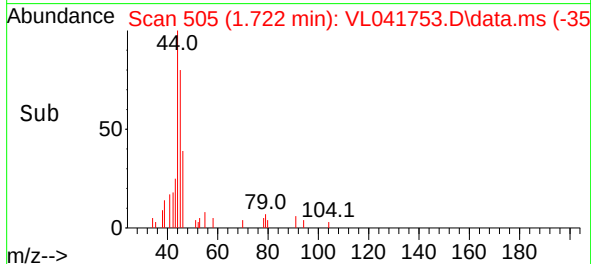
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 45 Resp: 792
Ion Ratio Lower Upper
45 100
46 72.9 16.4 65.8

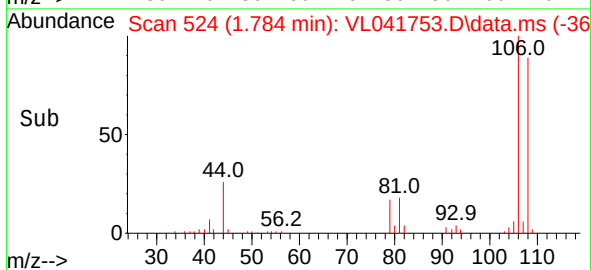
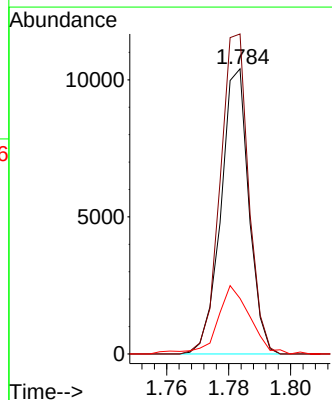
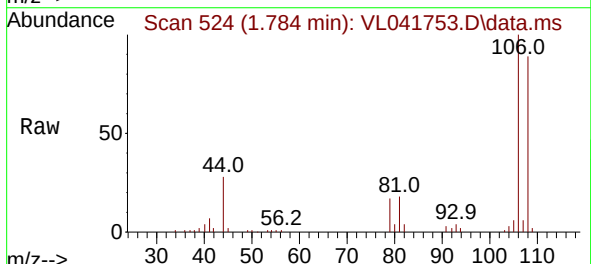
Manual Integrations
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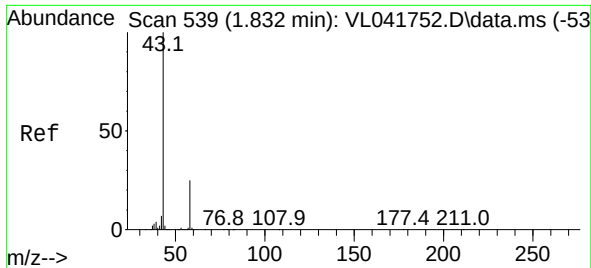
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#14
Bromoethene
Concen: 1.994 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:108 Resp: 6527
Ion Ratio Lower Upper
108 100
106 114.2 84.1 126.1
79 28.0 17.4 26.0





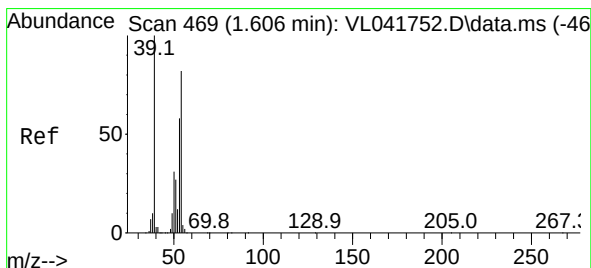
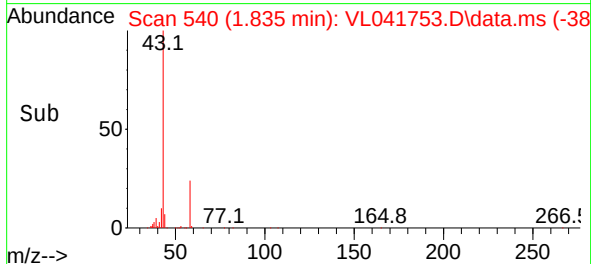
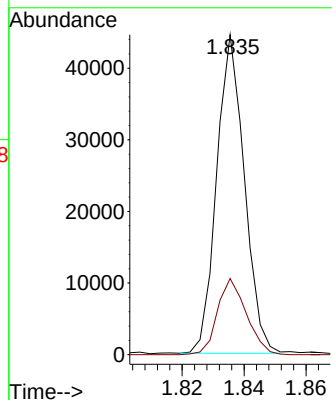
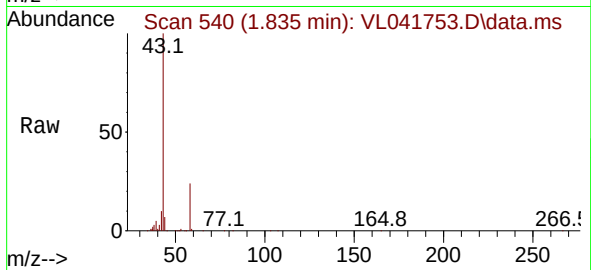
#15
Acetone
Concen: 2.104 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 2761
Ion Ratio Lower Upper
43 100
58 25.0 19.7 29.5

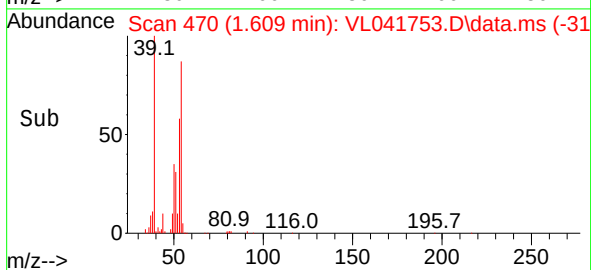
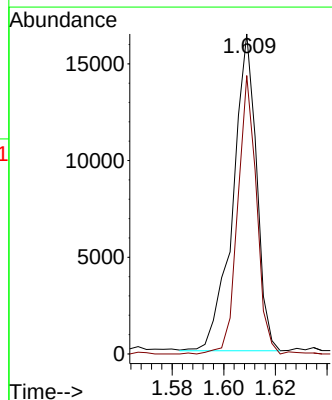
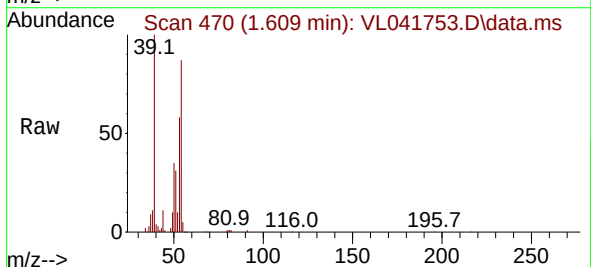
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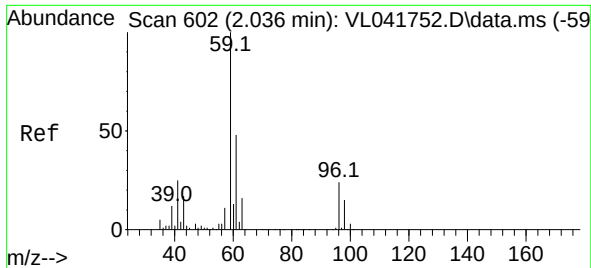
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#16
1,3-Butadiene
Concen: 2.028 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 39 Resp: 10478
Ion Ratio Lower Upper
39 100
54 70.0 58.4 87.6





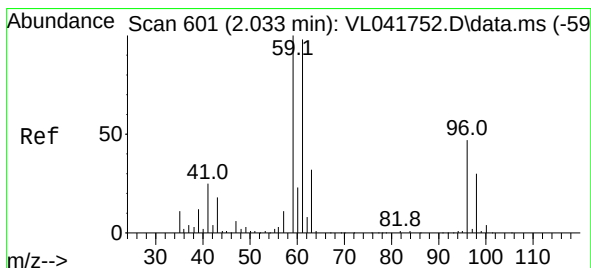
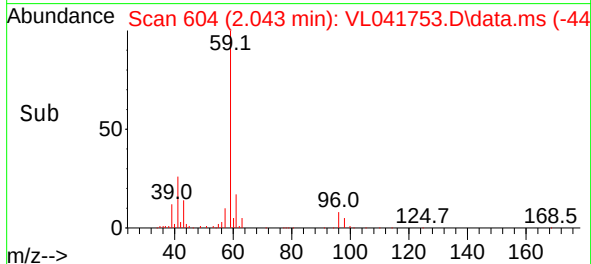
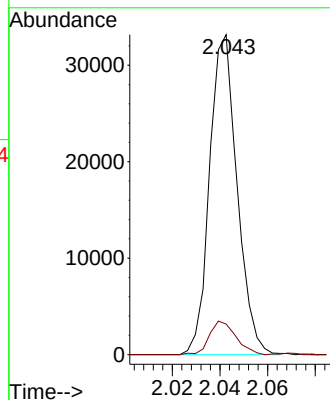
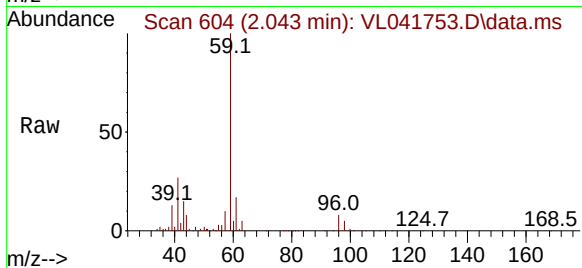
#17
tert-Butyl alcohol
Concen: 2.047 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 26640
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0

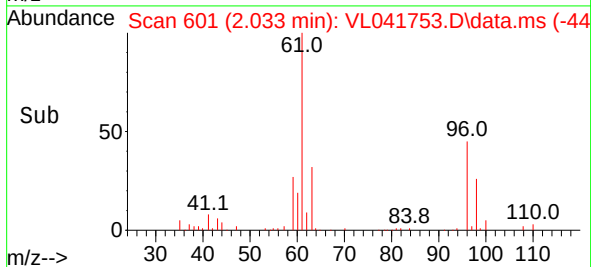
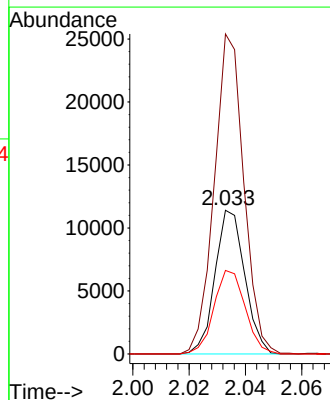
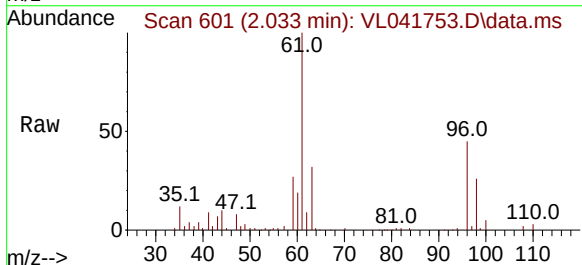
Manual Integrations
APPROVED

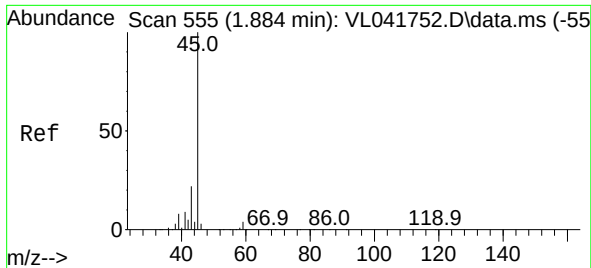
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#18
1,1-Dichloroethene
Concen: 2.064 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 96 Resp: 8389
Ion Ratio Lower Upper
96 100
61 222.7 167.7 251.5
98 58.2 51.1 76.7





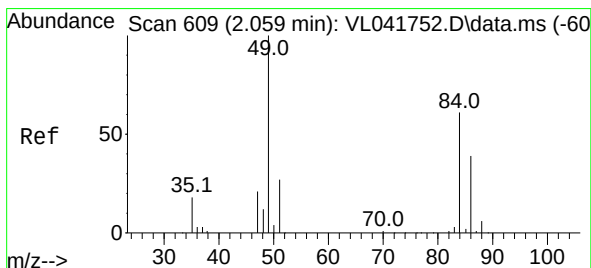
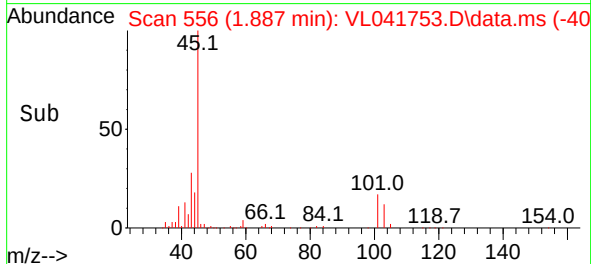
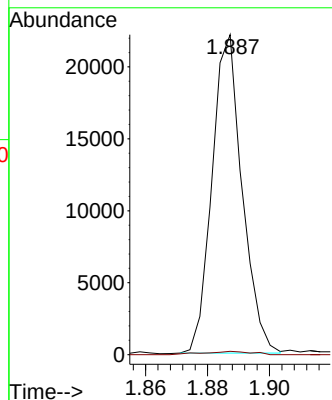
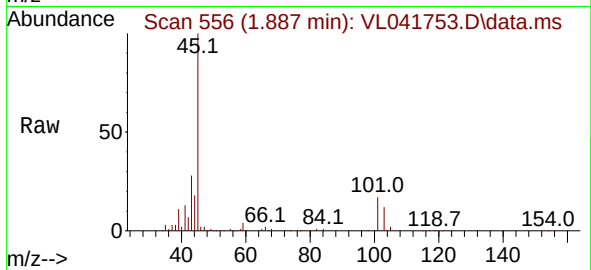
#19
Isopropyl Alcohol
Concen: 1.897 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 1493
Ion Ratio Lower Upper
45 100
58 46.2 33.3 49.9

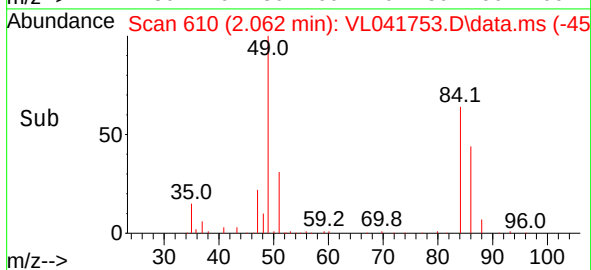
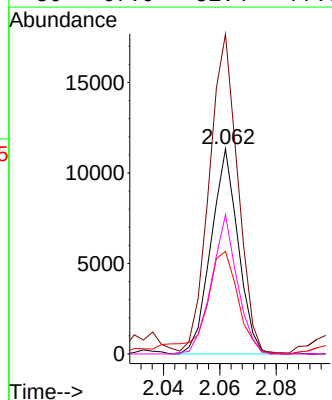
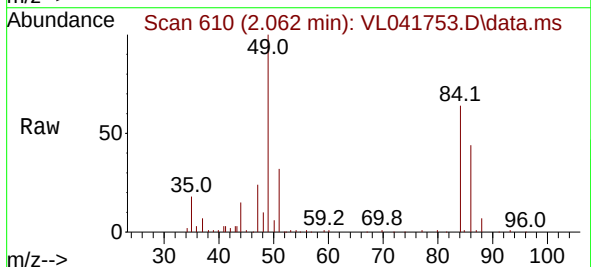
Manual Integrations
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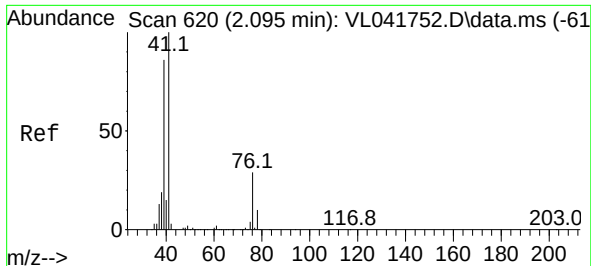
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#20
Methylene Chloride
Concen: 2.027 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

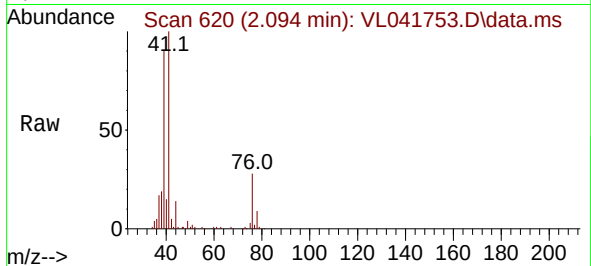
Tgt Ion: 84 Resp: 7586
Ion Ratio Lower Upper
84 100
49 155.5 132.6 198.8
51 49.5 37.6 56.4
86 67.9 51.4 77.0





#21
 Allyl Chloride
 Concen: 2.070 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

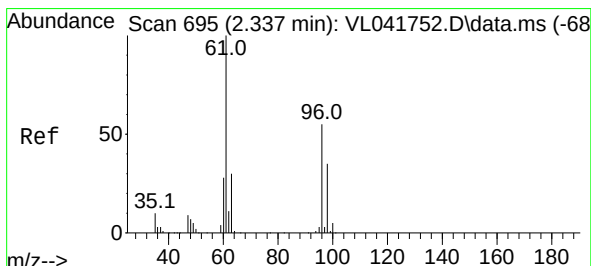
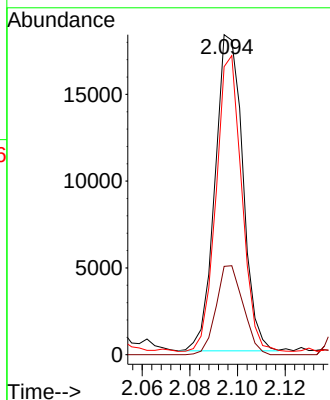
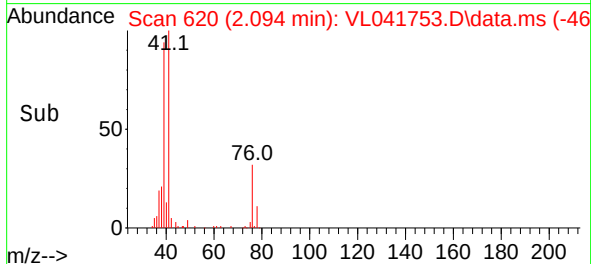
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 41 Resp: 1473
 Ion Ratio Lower Upper
 41 100
 76 27.4 22.3 33.5
 39 85.3 69.2 103.8

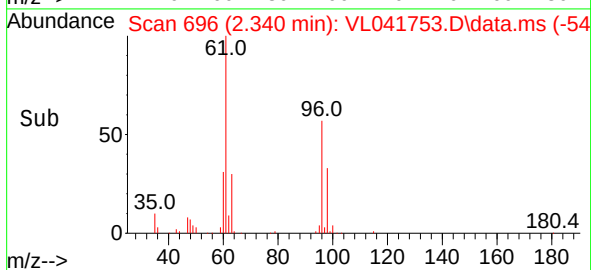
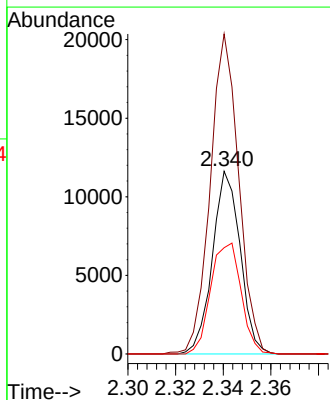
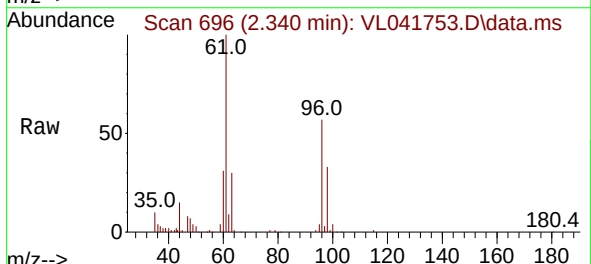
Manual Integrations
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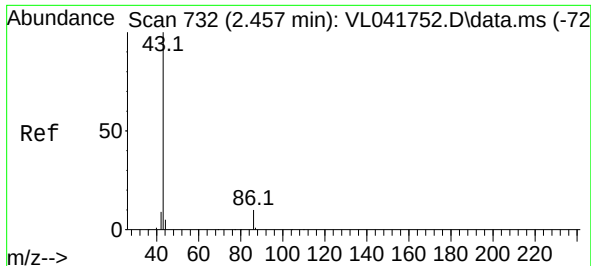
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#22
 trans-1,2-Dichloroethene
 Concen: 2.022 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

Tgt Ion: 96 Resp: 9407
 Ion Ratio Lower Upper
 96 100
 61 175.1 146.3 219.5
 98 58.2 50.8 76.2





#23
 Vinyl Acetate
 Concen: 3.096 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

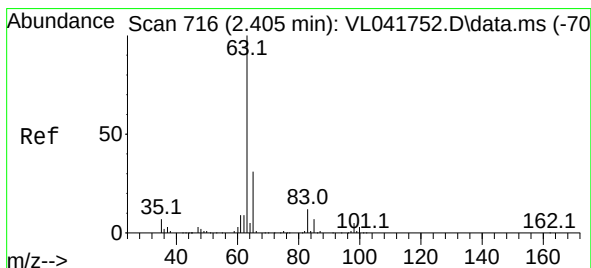
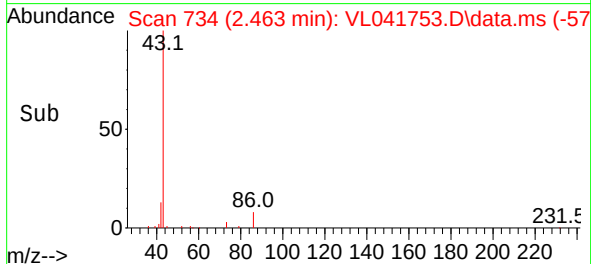
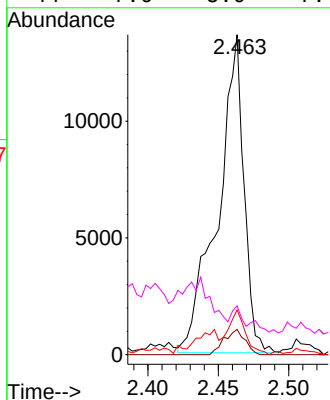
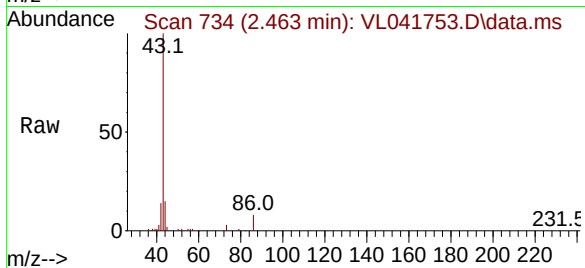
VSTDICC002

Tgt Ion: 43 Resp: 17652
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.6 10.0
 42 13.0 8.2 12.2
 44 7.6 5.0 7.4#

Manual Integrations

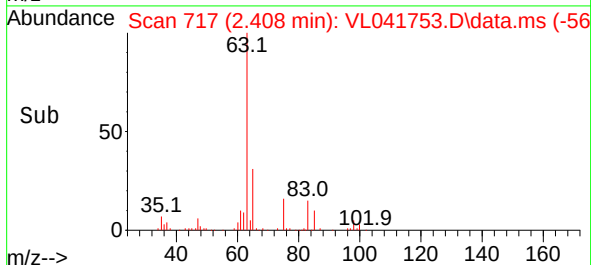
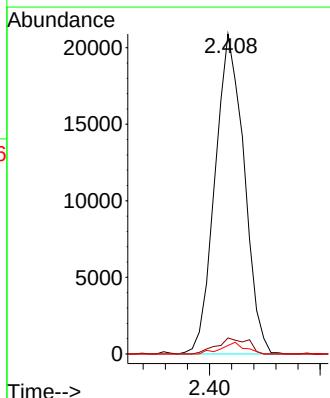
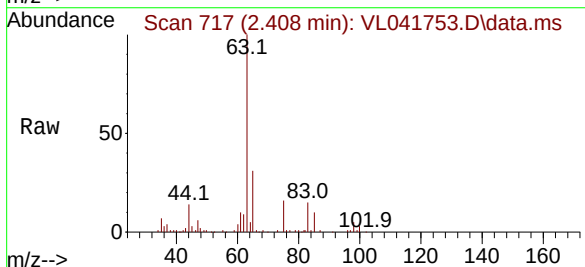
APPROVED

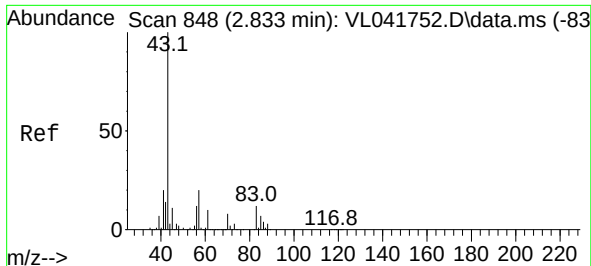
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#24
 1,1-Dichloroethane
 Concen: 2.025 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

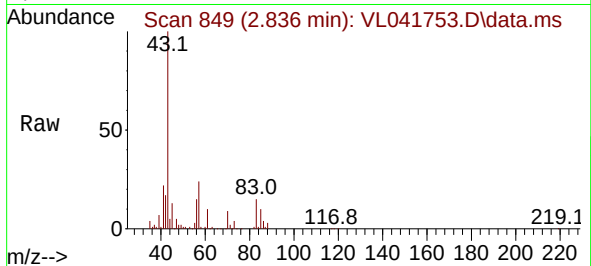
Tgt Ion: 63 Resp: 19070
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.3 6.8
 100 2.7 1.4 4.2





#25
Ethyl Acetate
Concen: 2.059 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

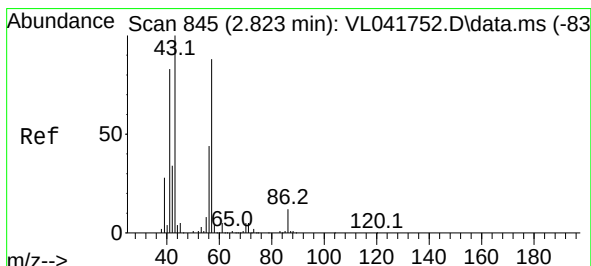
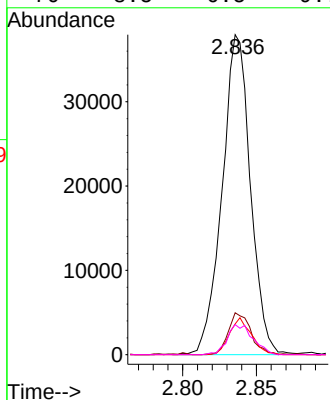
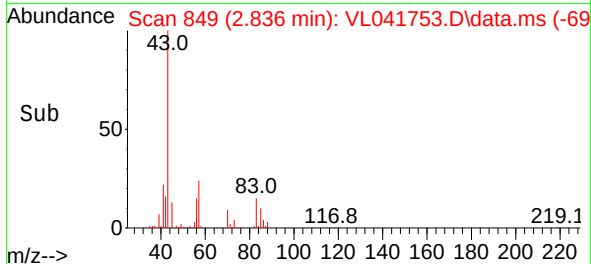
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 43 Resp: 50510
Ion Ratio Lower Upper
43 100
45 10.9 8.1 12.1
61 9.0 7.0 10.6
70 8.5 6.5 9.7

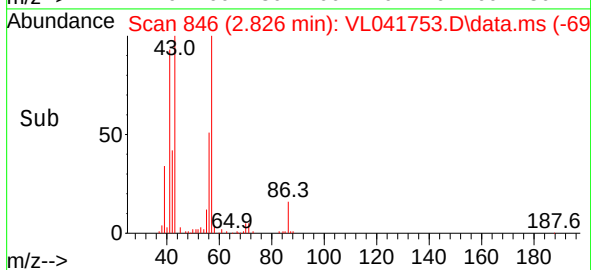
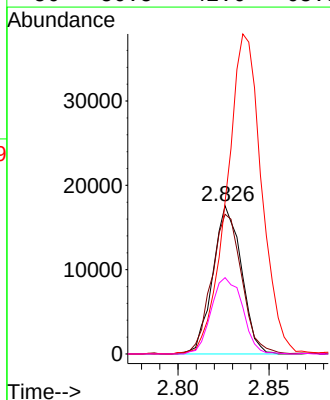
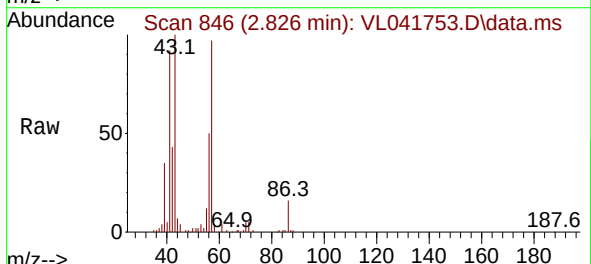
Manual Integrations
APPROVED

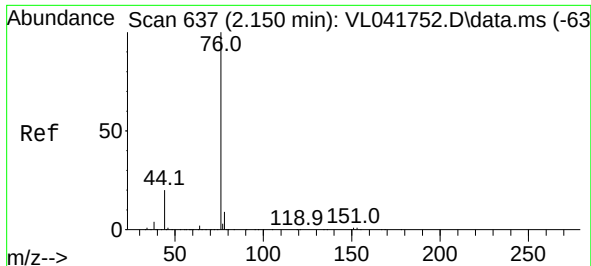
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#26
Hexane
Concen: 2.073 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 57 Resp: 19200
Ion Ratio Lower Upper
57 100
41 100.7 79.6 119.4
43 266.5 211.0 316.6
56 56.5 42.6 63.8





#27

Carbon Disulfide

Concen: 1.942 ppbv

RT: 2.153 min Scan# 637

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

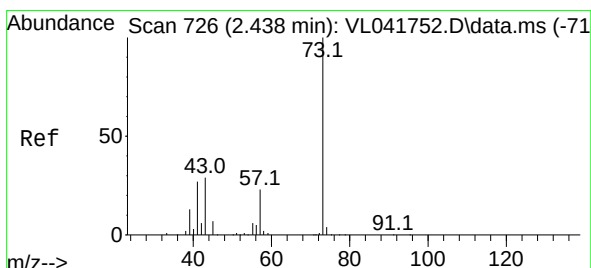
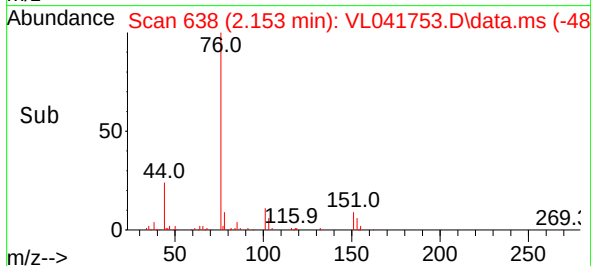
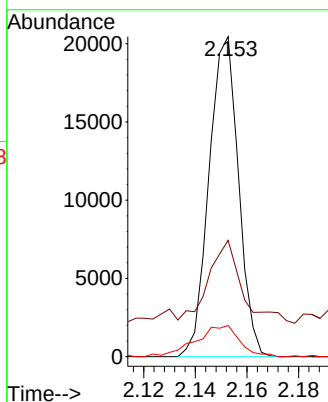
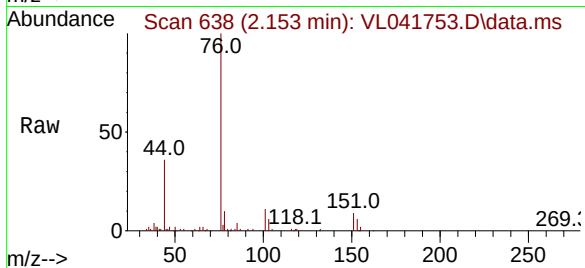
VSTDICC002

Tgt Ion: 76	Resp: 16214
Ion Ratio	Lower Upper
76	100
44	70.4 17.6 26.4
78	14.6 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#28

Methyl tert-Butyl Ether

Concen: 2.001 ppbv

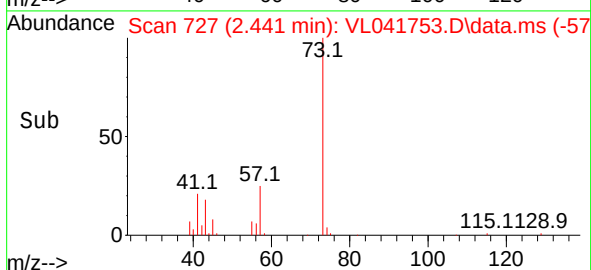
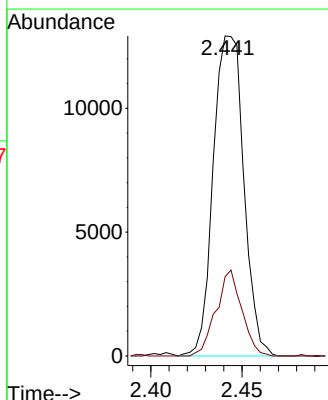
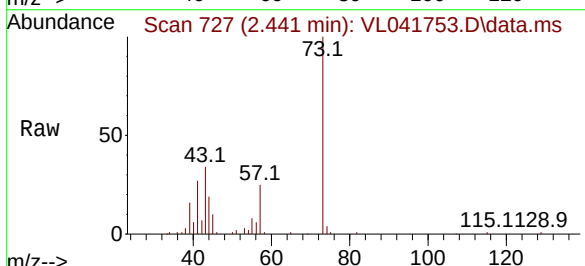
RT: 2.441 min Scan# 727

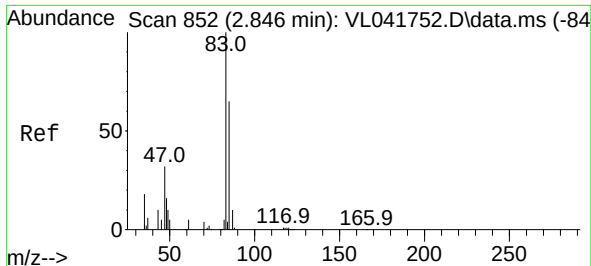
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 73	Resp: 15039
Ion Ratio	Lower Upper
73	100
57	22.8 17.6 26.4





#29

Chloroform

Concen: 2.043 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 2884

Ion Ratio Lower Upper

83 100

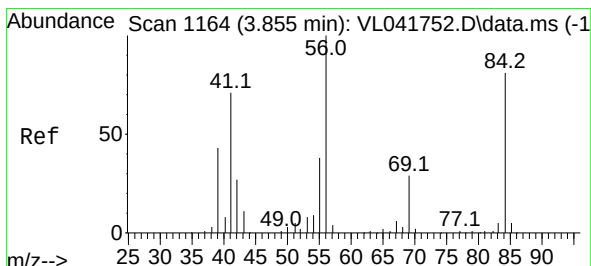
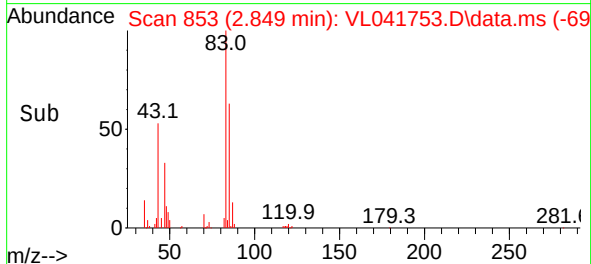
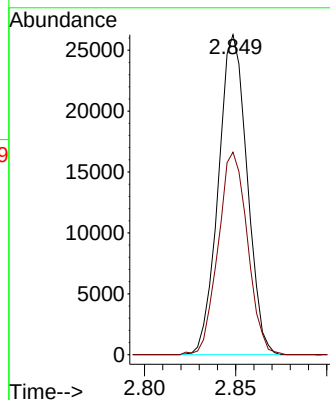
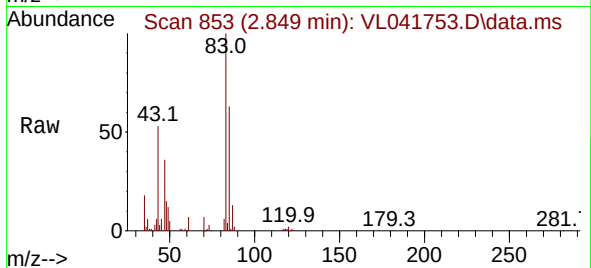
85 63.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 2.079 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

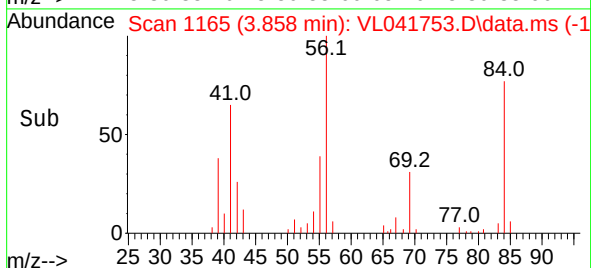
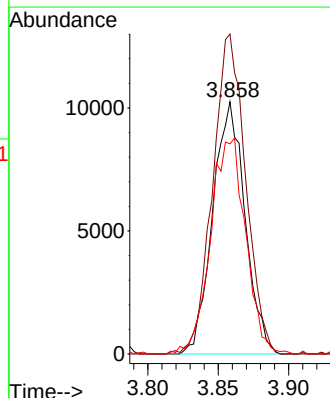
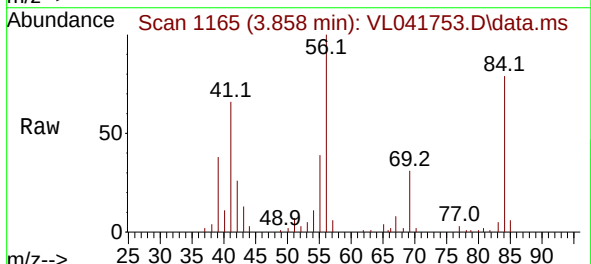
Tgt Ion: 84 Resp: 16384

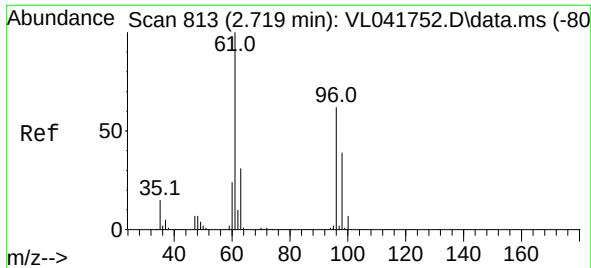
Ion Ratio Lower Upper

84 100

56 129.2 102.3 153.5

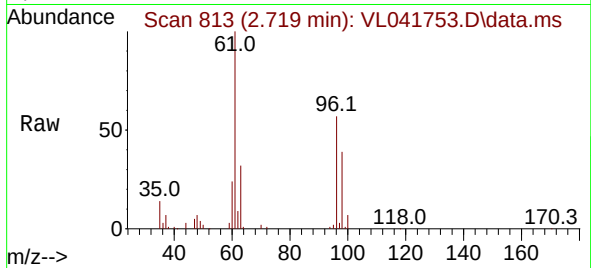
41 92.9 74.0 111.0





#31
cis-1,2-Dichloroethene
Concen: 2.057 ppbv
RT: 2.719 min Scan# 813
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

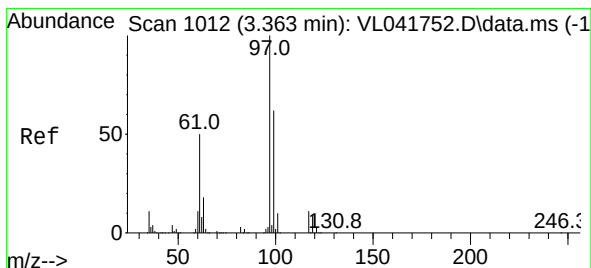
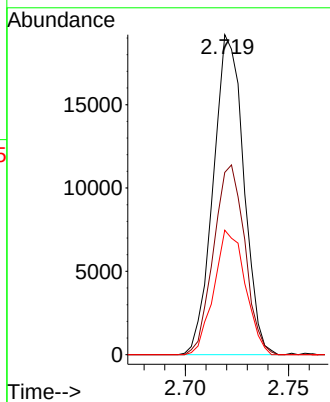
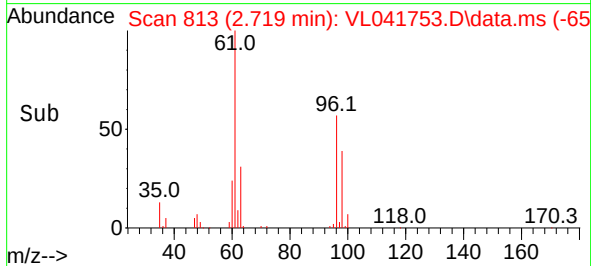
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



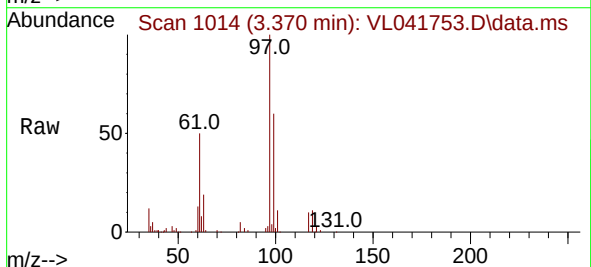
Tgt Ion: 61 Resp: 19688
Ion Ratio Lower Upper
61 100
96 56.9 49.7 74.5
98 38.9 30.8 46.2

Manual Integrations
APPROVED

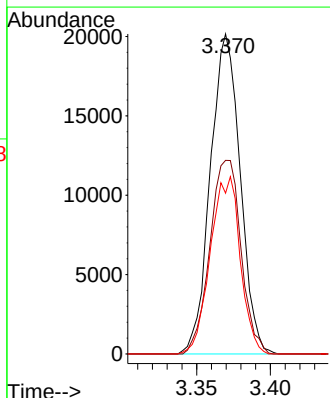
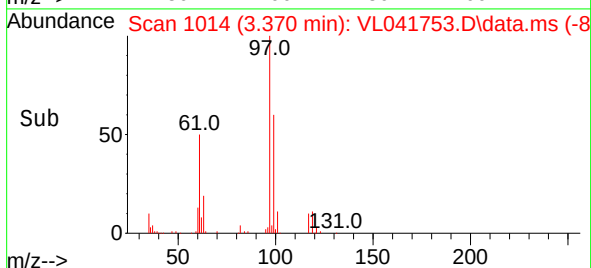
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

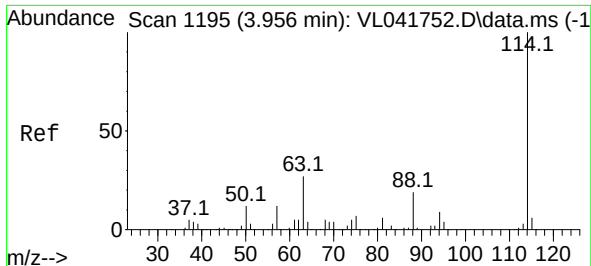


#32
1,1,1-Trichloroethane
Concen: 2.017 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03



Tgt Ion: 97 Resp: 28341
Ion Ratio Lower Upper
97 100
99 63.3 51.0 76.4
61 55.5 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

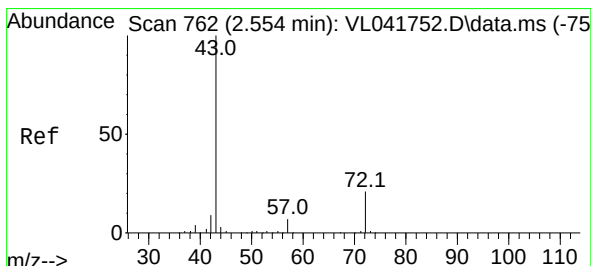
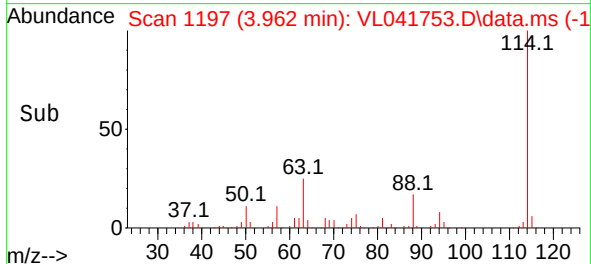
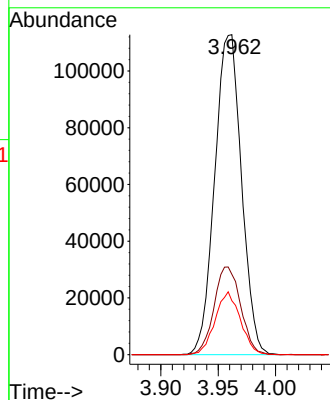
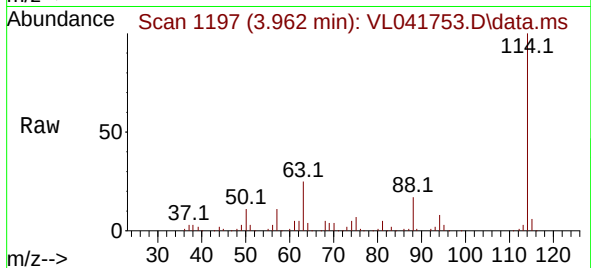
Tgt Ion:114 Resp: 182992

Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.8
88	18.5	14.8	22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#34

2-Butanone

Concen: 2.138 ppbv

RT: 2.557 min Scan# 763

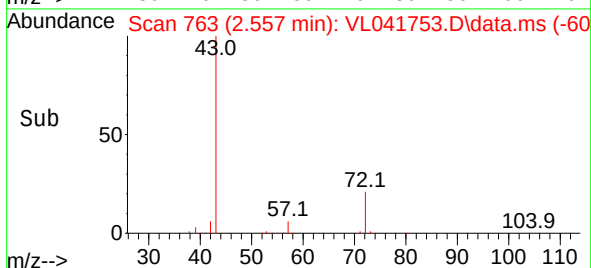
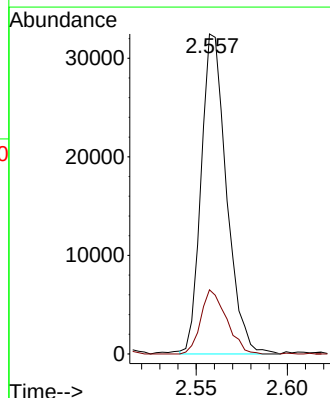
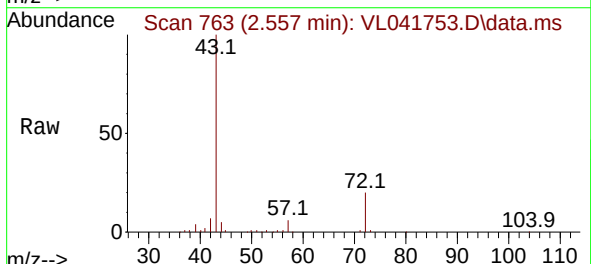
Delta R.T. 0.003 min

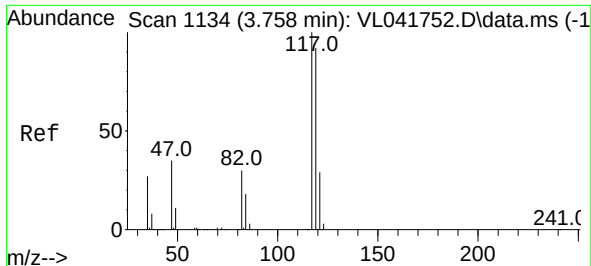
Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 43 Resp: 31483

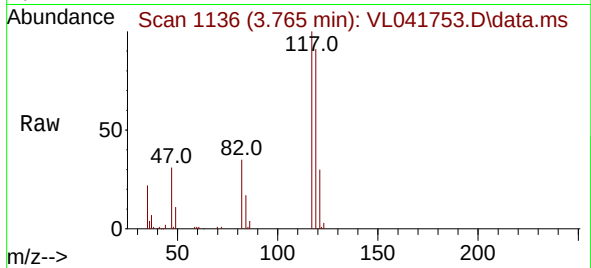
Ion	Ratio	Lower	Upper
43	100		
72	20.4	16.8	25.2





#35
Carbon Tetrachloride
Concen: 2.134 ppbv
RT: 3.765 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

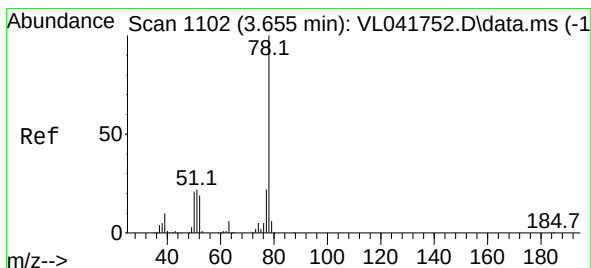
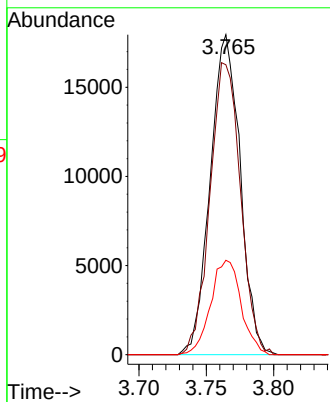
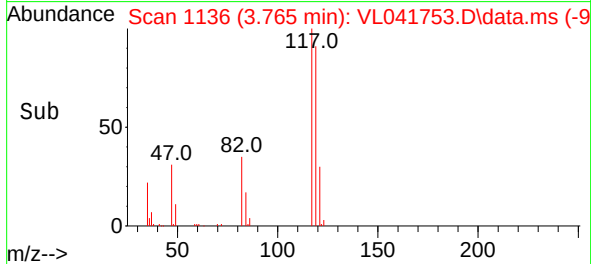
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:117 Resp: 2772
Ion Ratio Lower Upper
117 100
119 90.6 73.7 110.5
121 29.5 23.0 34.4

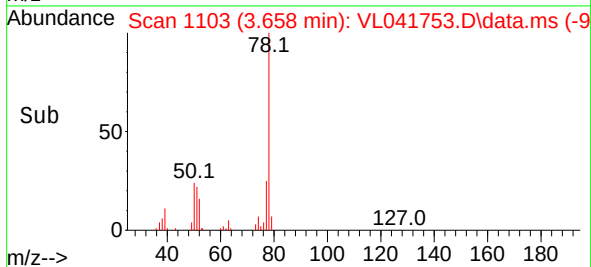
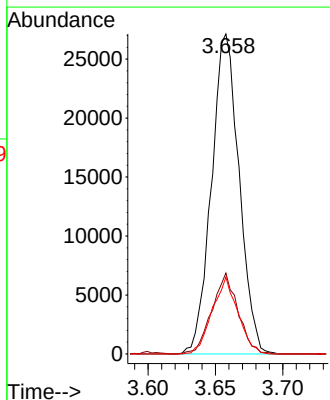
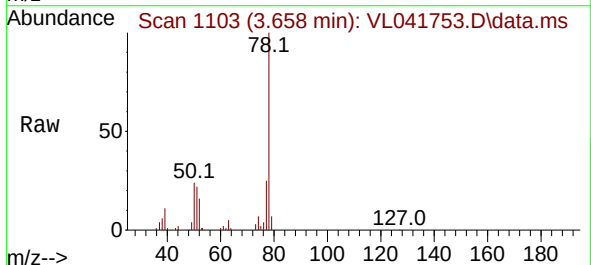
Manual Integrations
APPROVED

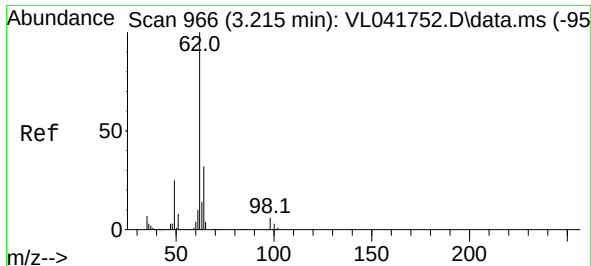
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#36
Benzene
Concen: 2.048 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 78 Resp: 38759
Ion Ratio Lower Upper
78 100
77 25.3 17.8 26.6
50 24.0 17.2 25.8





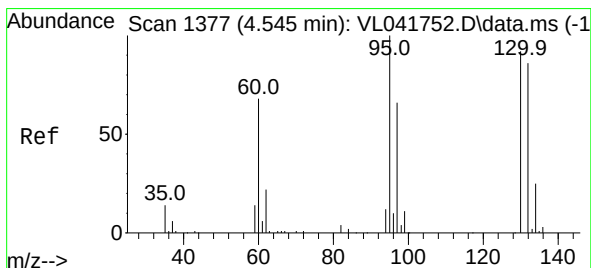
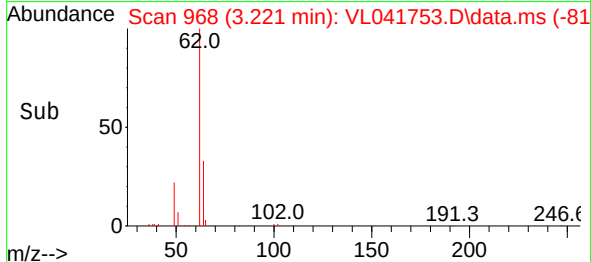
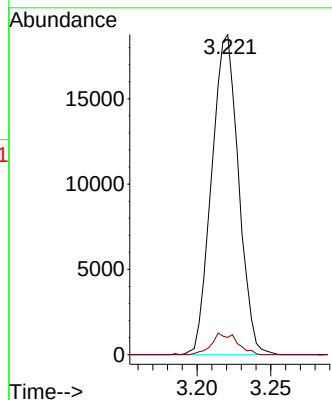
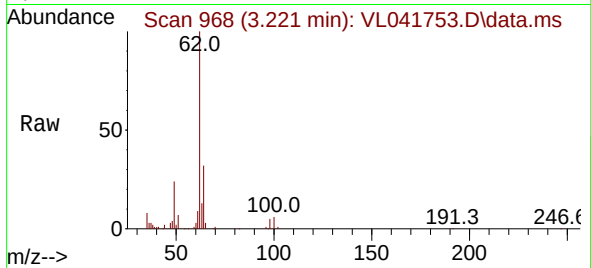
#37
1,2-Dichloroethane
Concen: 2.021 ppbv
RT: 3.221 min Scan# 966
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 23800
Ion Ratio Lower Upper
62 100
98 6.4 4.7 7.1

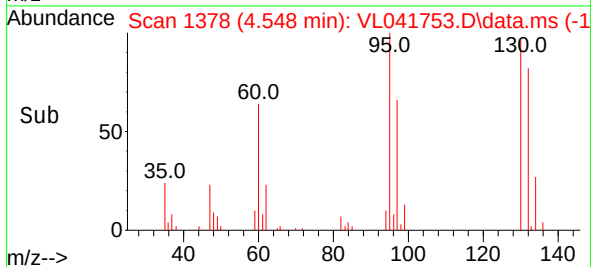
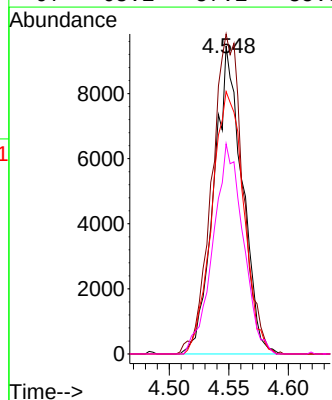
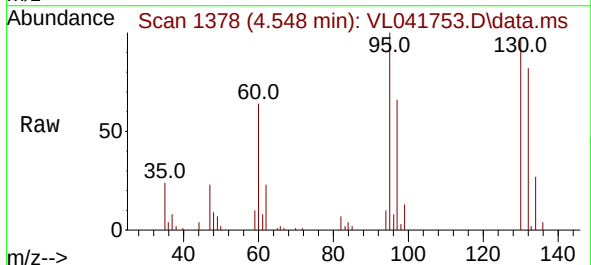
Manual Integrations
APPROVED

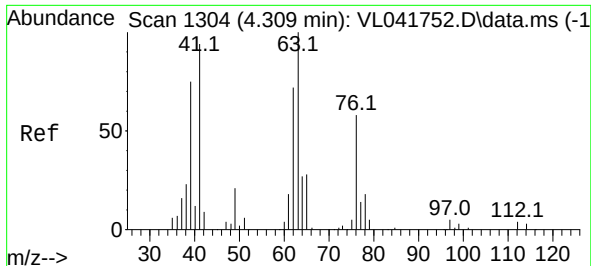
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38
Trichloroethene
Concen: 1.965 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:130 Resp: 15660
Ion Ratio Lower Upper
130 100
95 103.3 87.0 130.6
132 85.2 75.0 112.6
97 68.2 57.2 85.8





#39

1,2-Dichloropropane

Concen: 2.074 ppbv

RT: 4.315 min Scan# 1419

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

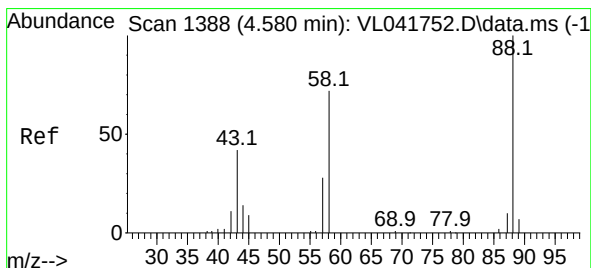
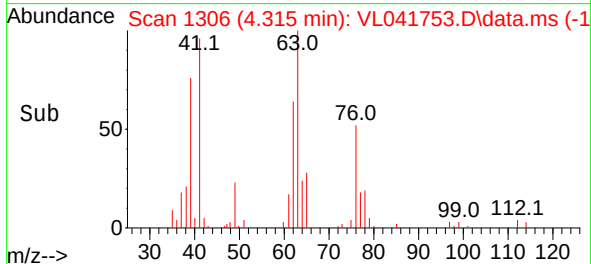
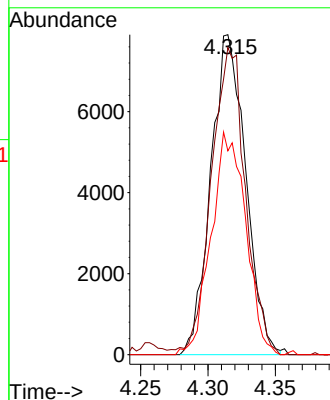
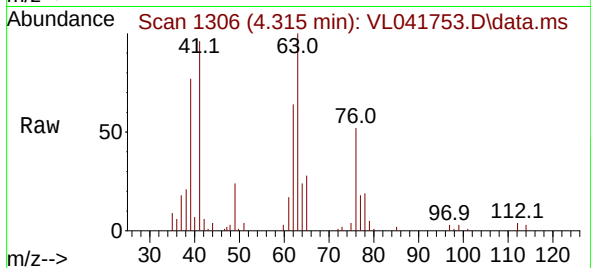
VSTDICC002

Tgt Ion:	63	Resp:	1419
Ion	Ratio	Lower	Upper
63	100		
41	95.9	75.3	112.9
62	62.4	57.3	85.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#40

1,4-Dioxane

Concen: 2.041 ppbv m

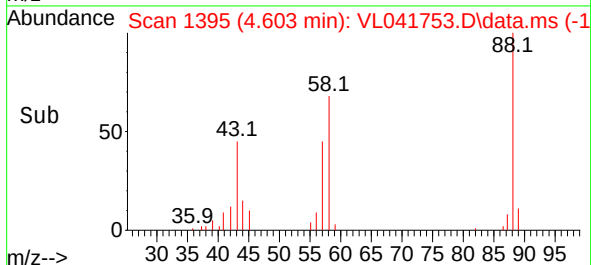
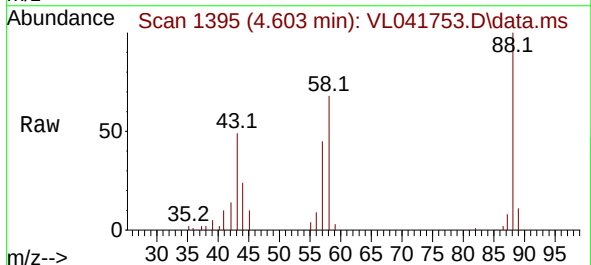
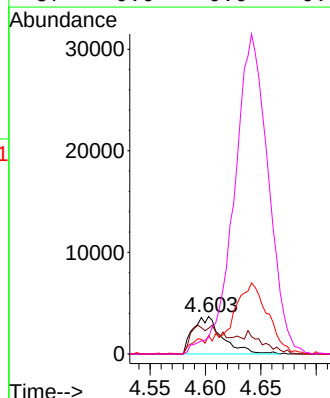
RT: 4.603 min Scan# 1395

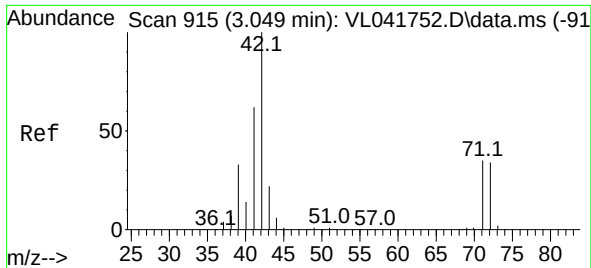
Delta R.T. 0.022 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:	88	Resp:	6826
Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.0	91.6#
43	0.0	29.4	44.0#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 2.021 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.009 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

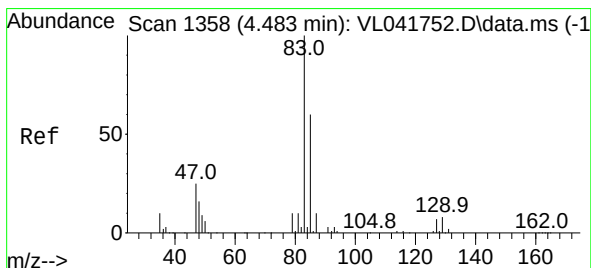
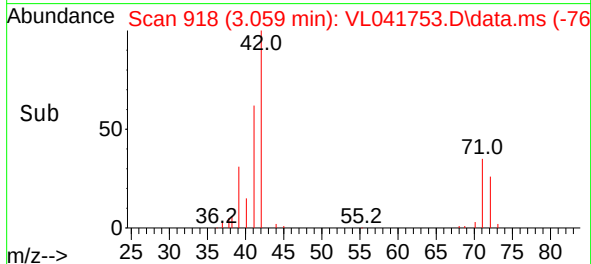
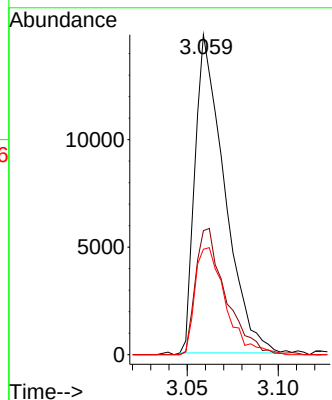
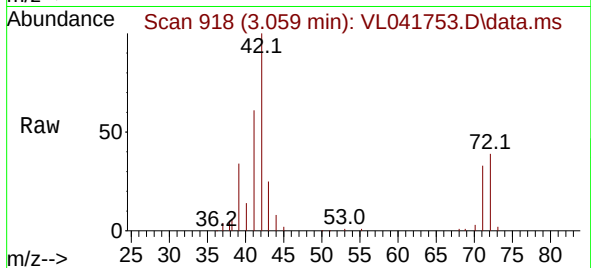
VSTDICC002

Tgt Ion: 42 Resp: 1666
Ion Ratio Lower Upper
42 100
72 40.7 29.1 43.7
71 34.9 28.4 42.6

Manual Integrations

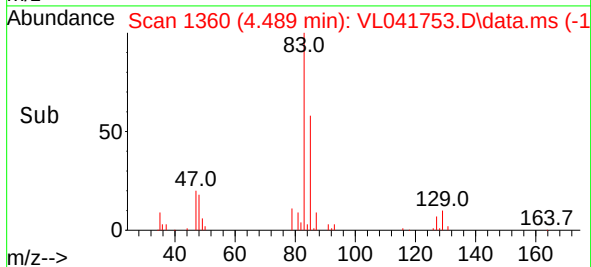
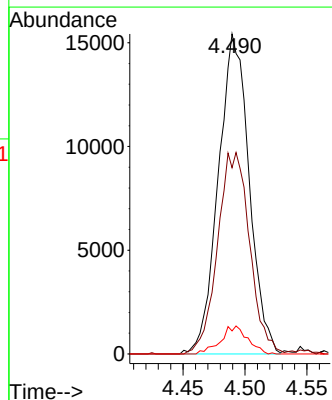
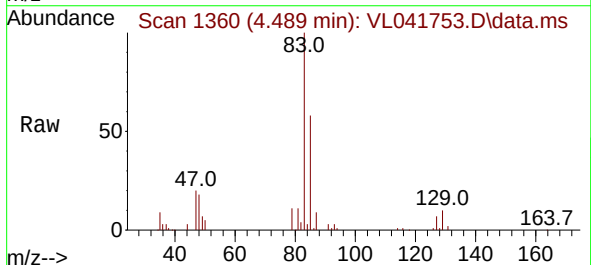
APPROVED

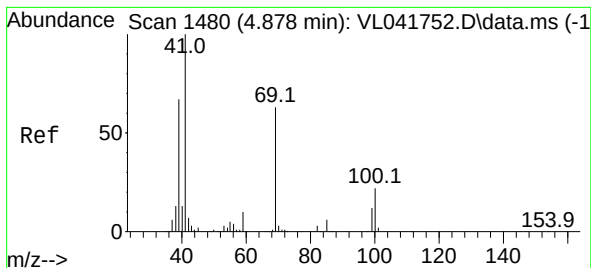
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#42
Bromodichloromethane
Concen: 1.972 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 83 Resp: 26716
Ion Ratio Lower Upper
83 100
85 58.2 48.0 72.0
127 7.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 2.059 ppbv

RT: 4.884 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

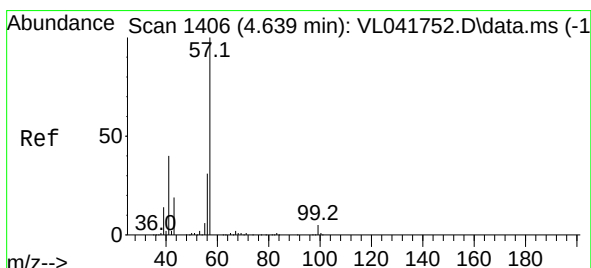
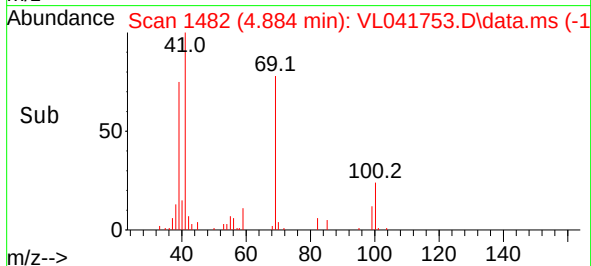
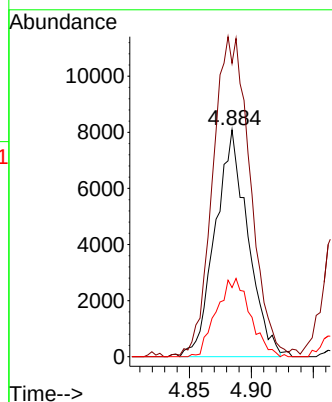
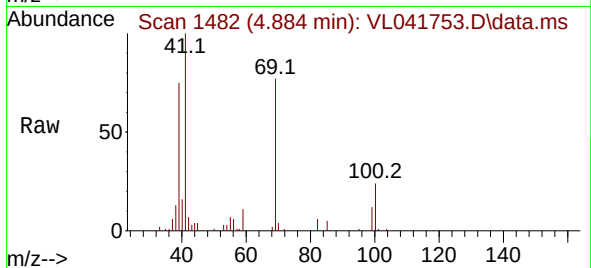
Tgt Ion: 69 Resp: 1484

Ion	Ratio	Lower	Upper
69	100		
41	162.7	130.3	195.5
100	35.7	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#44

2,2,4-Trimethylpentane

Concen: 2.086 ppbv

RT: 4.642 min Scan# 1407

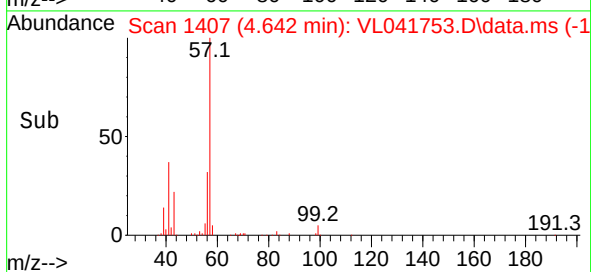
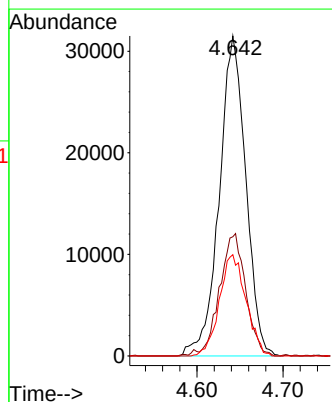
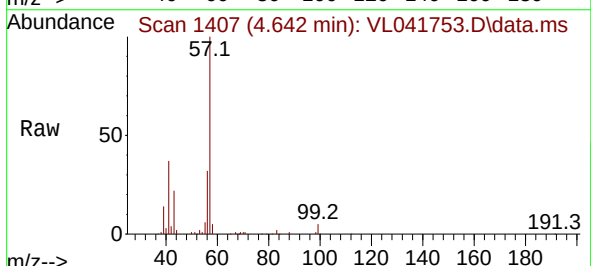
Delta R.T. 0.003 min

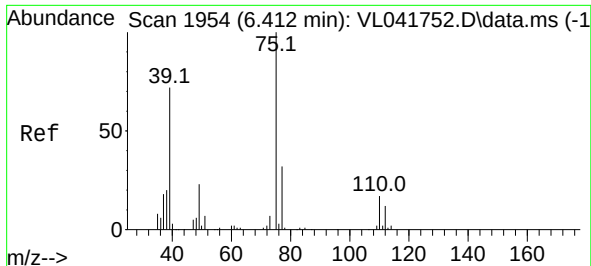
Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 57 Resp: 67432

Ion	Ratio	Lower	Upper
57	100		
41	37.9	30.7	46.1
56	31.7	25.4	38.0





#45

t-1,3-Dichloropropene

Concen: 1.995 ppbv

RT: 6.415 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 75 Resp: 1488

Ion Ratio Lower Upper

75 100

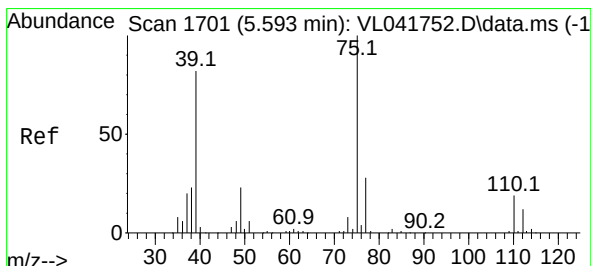
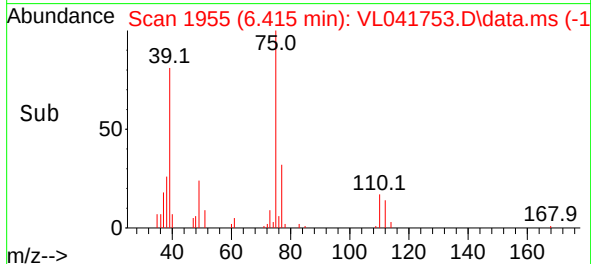
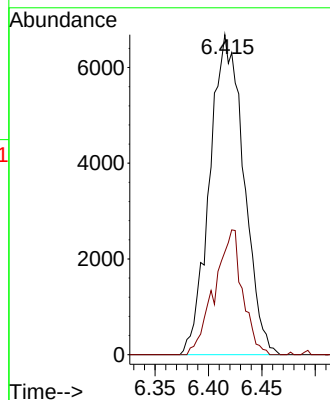
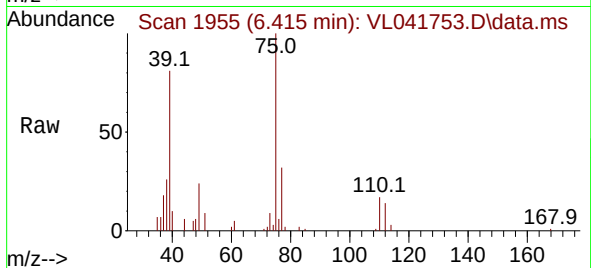
77 32.1 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#46

cis-1,3-Dichloropropene

Concen: 2.017 ppbv m

RT: 5.606 min Scan# 1705

Delta R.T. 0.013 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

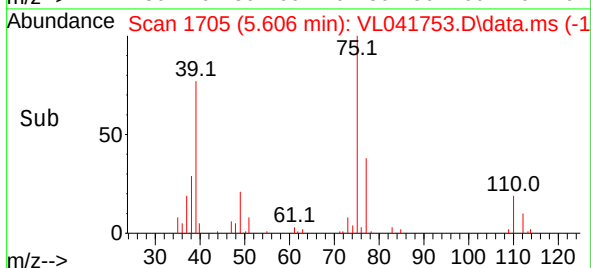
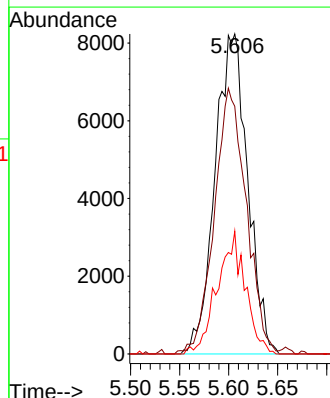
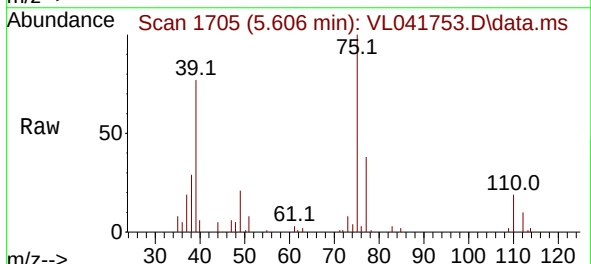
Tgt Ion: 75 Resp: 19105

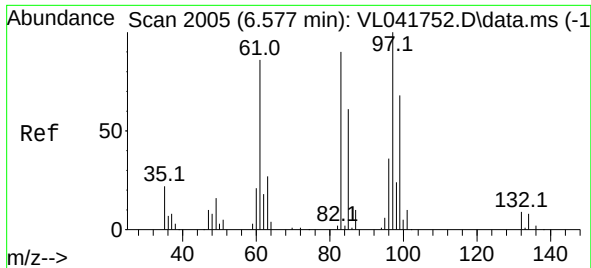
Ion Ratio Lower Upper

75 100

39 77.4 65.2 97.8

77 38.3 22.0 33.0#





#47

1,1,2-Trichloroethane

Concen: 2.078 ppbv

RT: 6.584 min Scan# 2005

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 1485

Ion Ratio Lower Upper

97 100

83 78.0 72.3 108.5

85 56.8 48.5 72.7

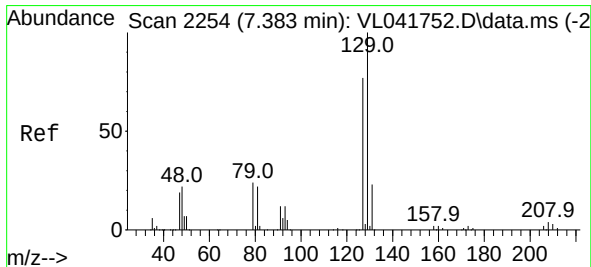
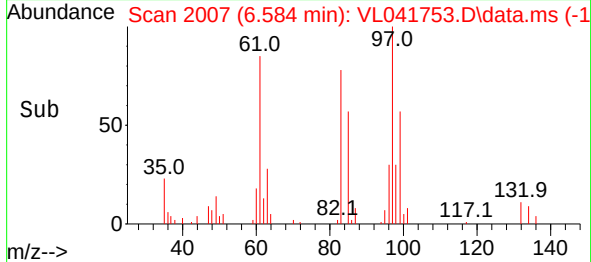
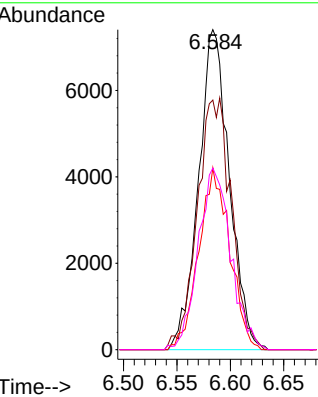
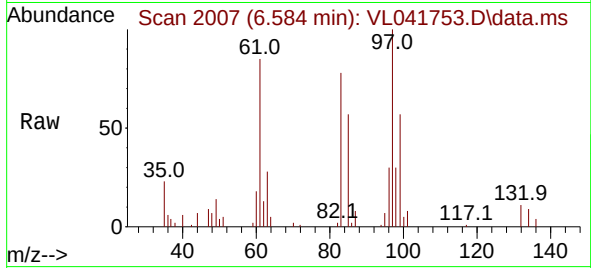
99 56.8 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#48

Dibromochloromethane

Concen: 2.024 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.006 min

Lab File: VL041753.D

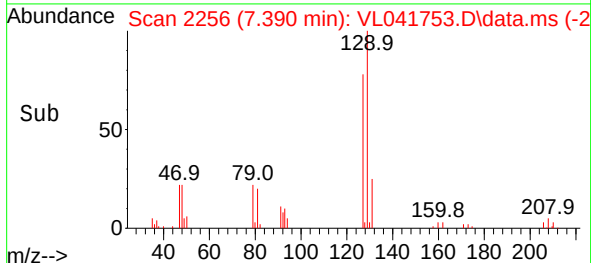
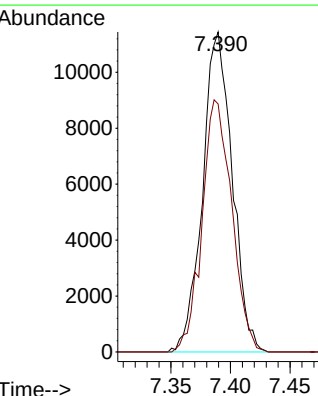
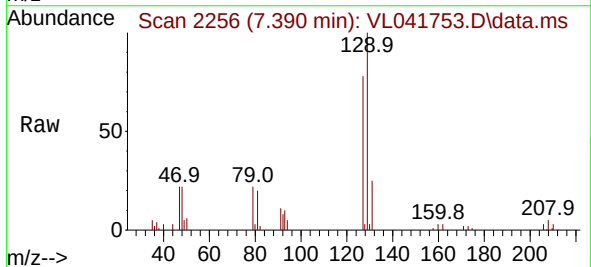
Acq: 16 Dec 2024 14:03

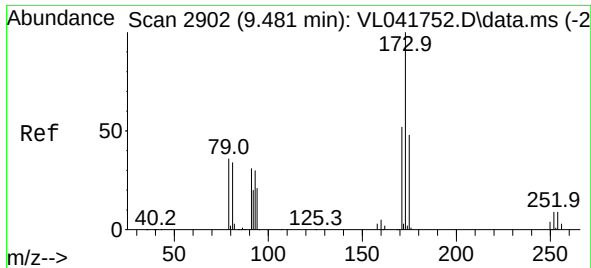
Tgt Ion:129 Resp: 19764

Ion Ratio Lower Upper

129 100

127 79.1 38.8 116.3





#49

Bromoform

Concen: 2.027 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

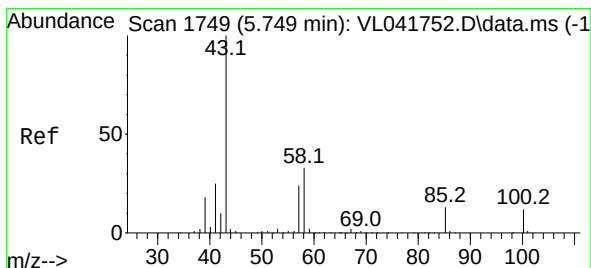
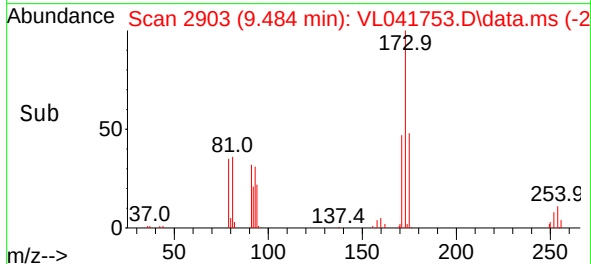
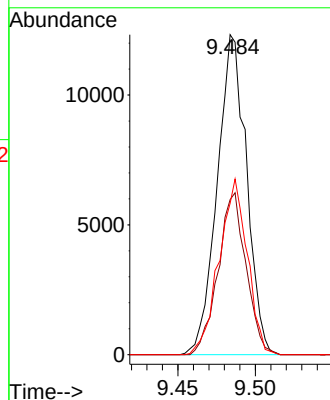
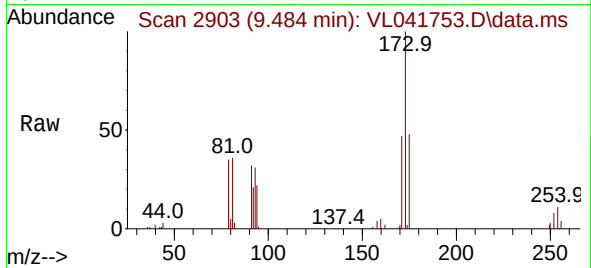
VSTDIC002

Tgt Ion:173 Resp: 16200
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.2 57.2
 171 52.9 41.1 61.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#50

4-Methyl-2-Pentanone

Concen: 2.098 ppbv

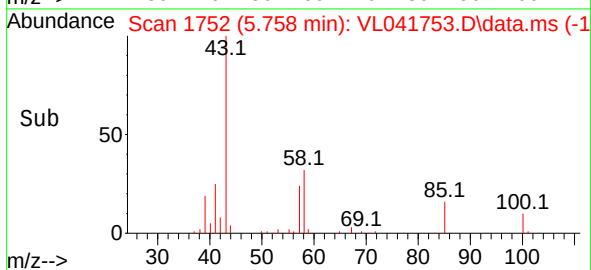
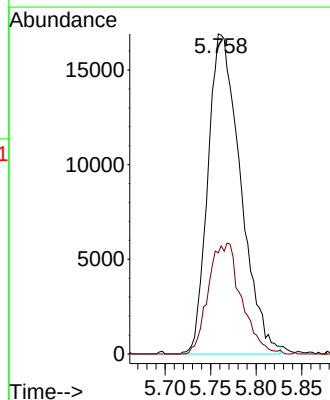
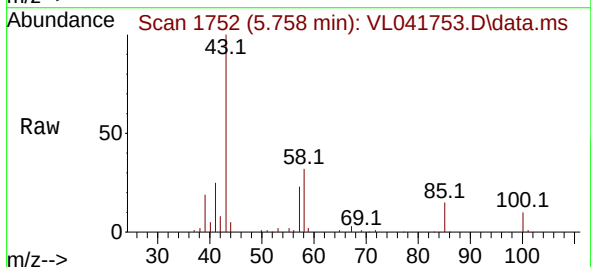
RT: 5.758 min Scan# 1752

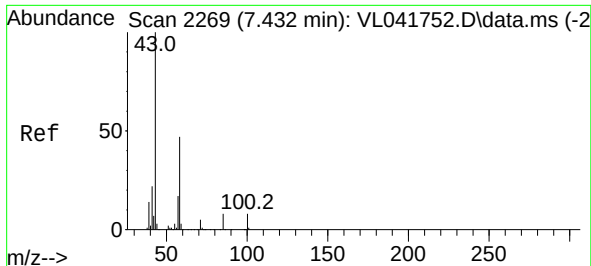
Delta R.T. 0.009 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

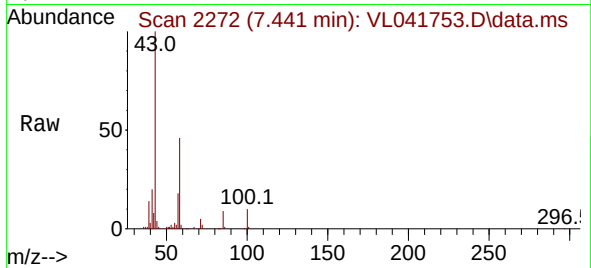
Tgt Ion: 43 Resp: 42045
 Ion Ratio Lower Upper
 43 100
 58 35.1 26.8 40.2





#51
2-Hexanone
Concen: 2.147 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

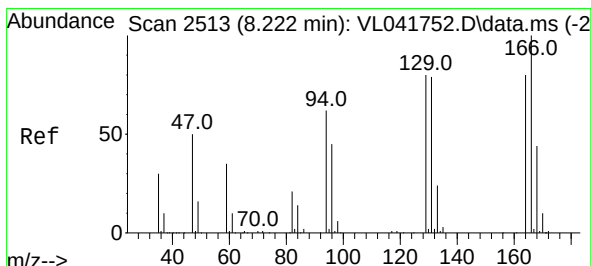
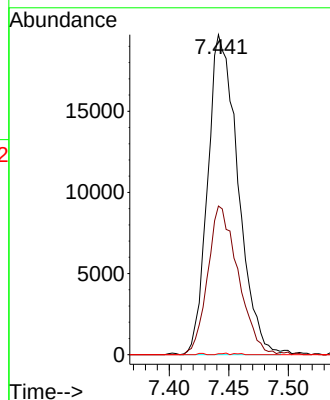
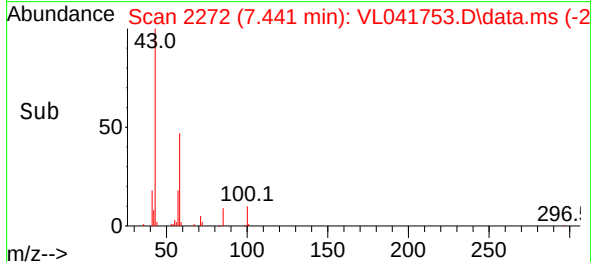
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 43 Resp: 34878
Ion Ratio Lower Upper
43 100
58 46.8 36.6 55.0
98 0.3 0.1 0.1

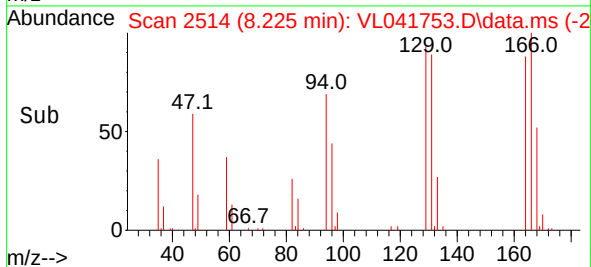
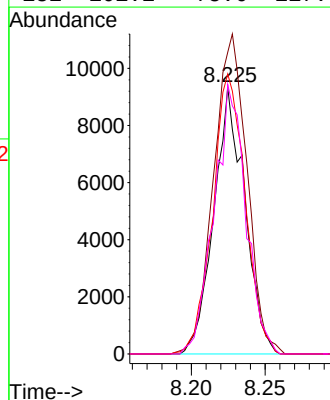
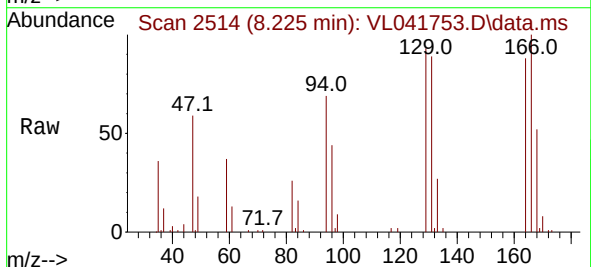
Manual Integrations
APPROVED

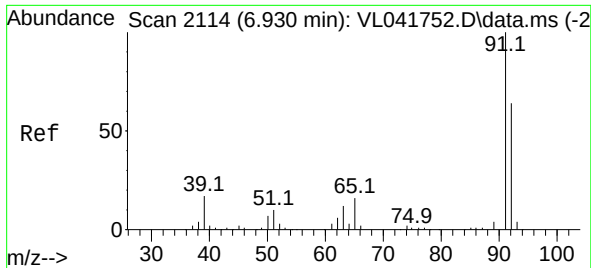
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#52
Tetrachloroethene
Concen: 1.932 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:164 Resp: 13612
Ion Ratio Lower Upper
164 100
166 111.9 99.8 149.6
129 104.9 79.6 119.4
131 101.1 78.6 117.8





#53

Toluene

Concen: 2.072 ppbv

RT: 6.933 min Scan# 2114

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 44470

Ion Ratio Lower Upper

91 100

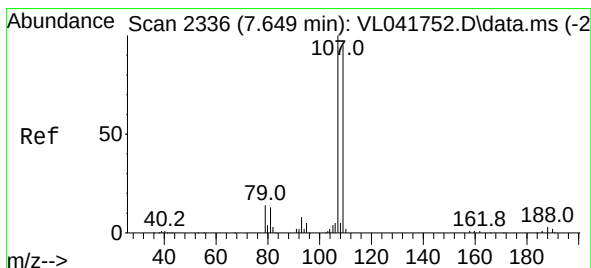
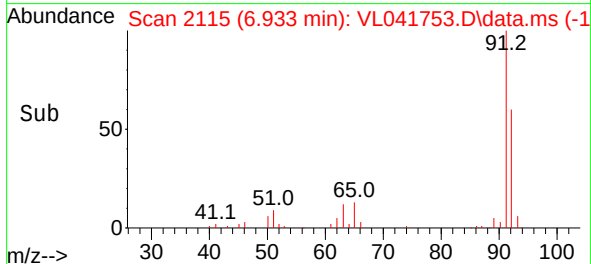
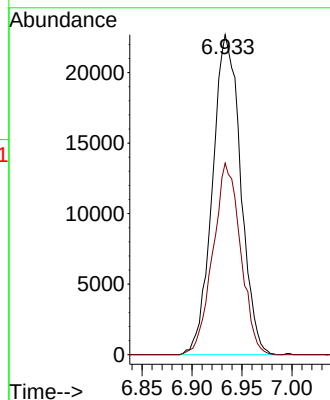
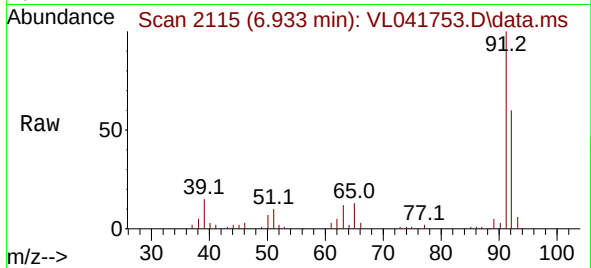
92 58.8 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 2.012 ppbv

RT: 7.655 min Scan# 2338

Delta R.T. 0.006 min

Lab File: VL041753.D

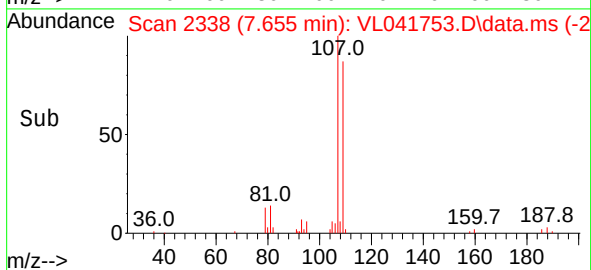
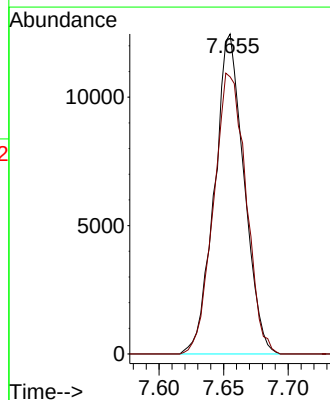
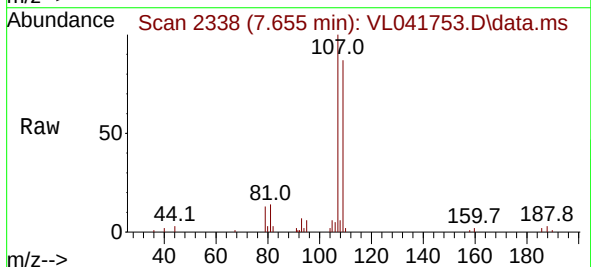
Acq: 16 Dec 2024 14:03

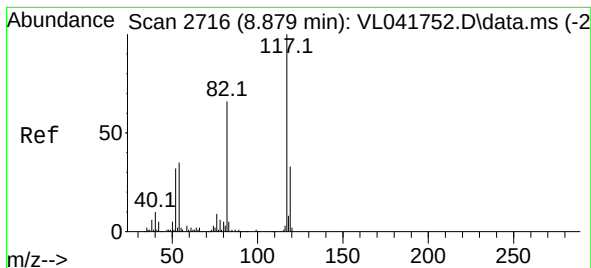
Tgt Ion:107 Resp: 19820

Ion Ratio Lower Upper

107 100

109 86.6 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC002

Tgt Ion:117 Resp: 16397

Ion Ratio Lower Upper

117 100

82 68.5 53.8 80.8

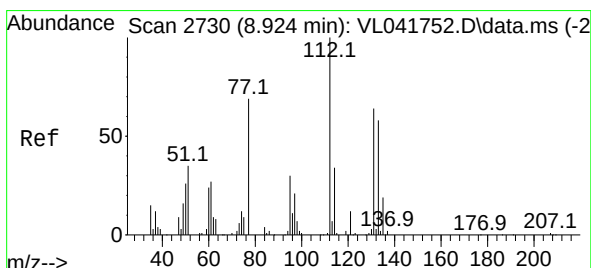
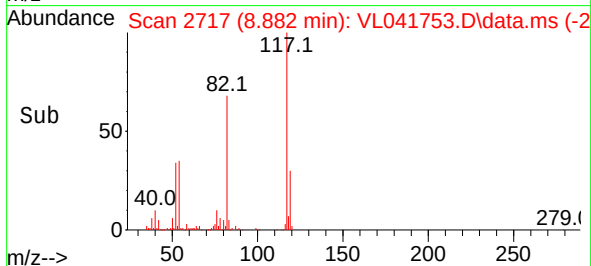
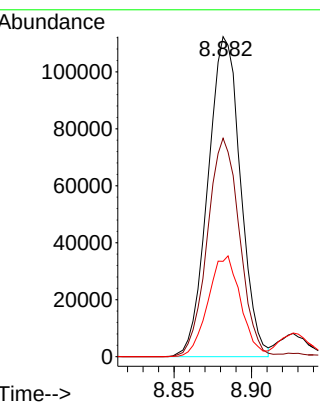
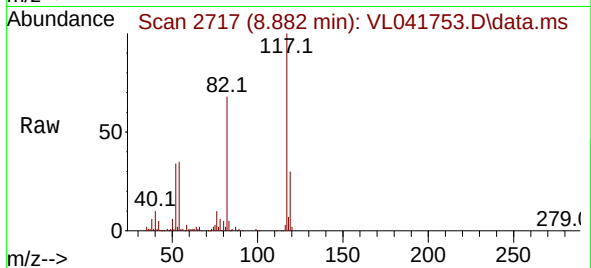
119 31.5 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 2.141 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

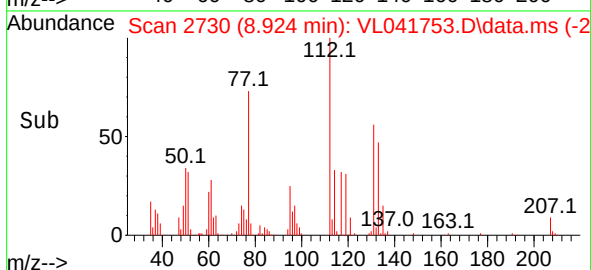
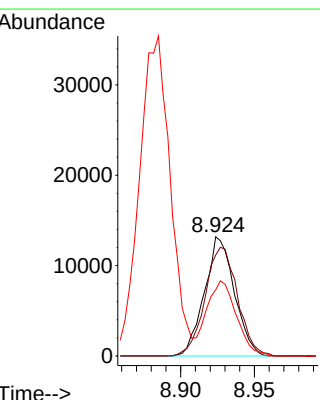
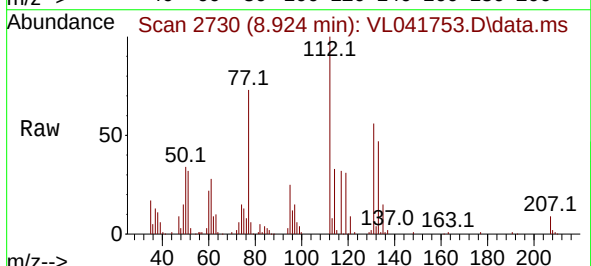
Tgt Ion:131 Resp: 18613

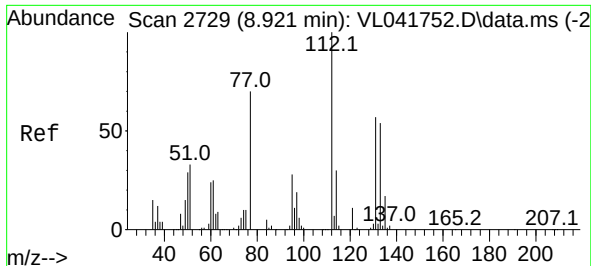
Ion Ratio Lower Upper

131 100

133 99.0 76.8 115.2

119 61.3 49.0 73.6





#57

Chlorobenzene

Concen: 2.127 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

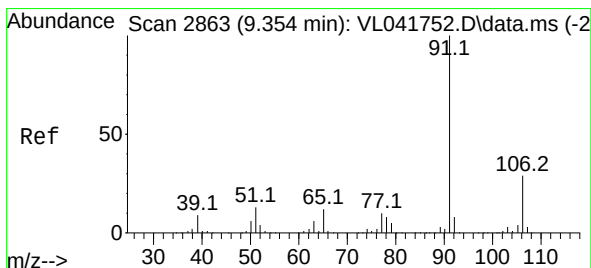
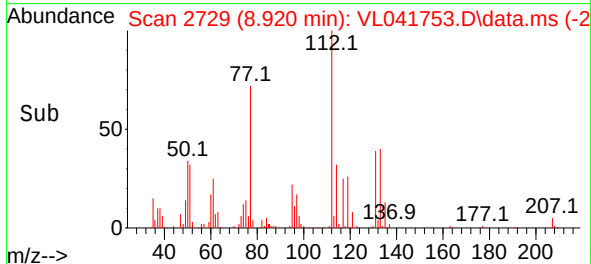
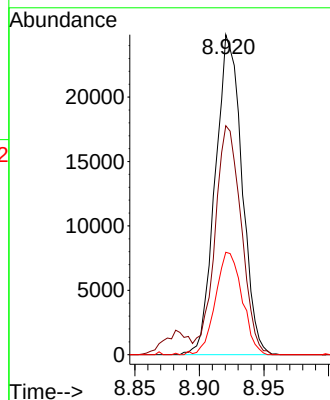
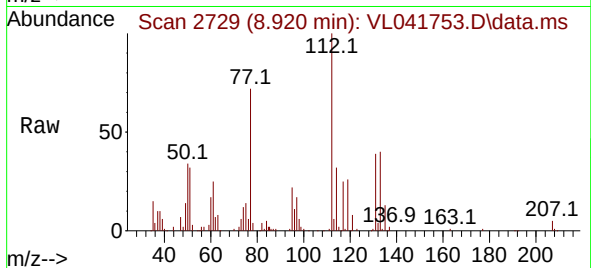
Tgt Ion: 112 Resp: 3568

Ion	Ratio	Lower	Upper
112	100		
77	71.6	57.4	86.0
114	32.0	27.4	33.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#58

Ethyl Benzene

Concen: 2.145 ppbv

RT: 9.354 min Scan# 2863

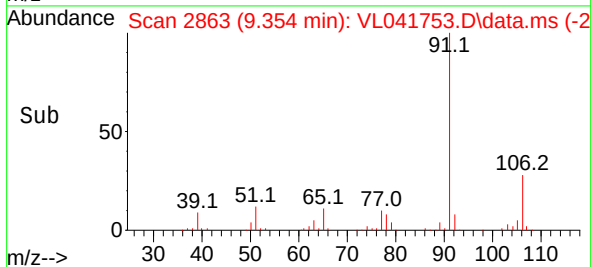
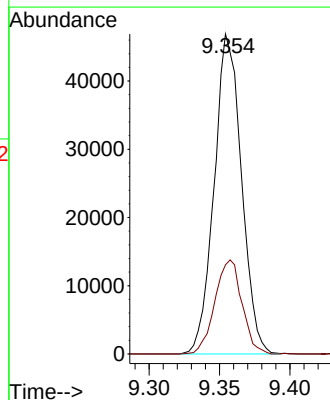
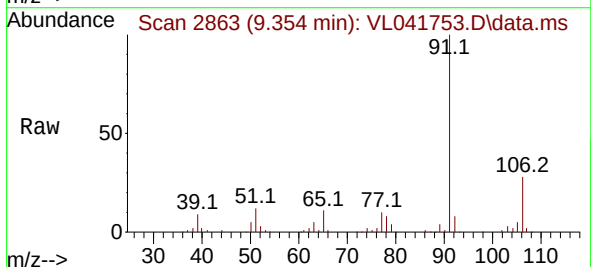
Delta R.T. -0.000 min

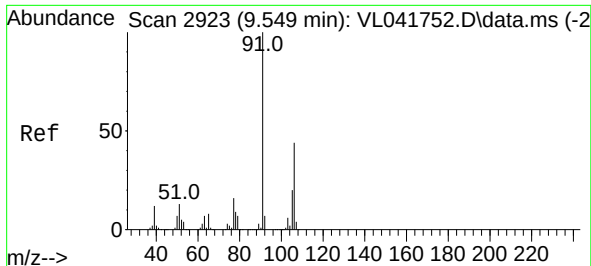
Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 91 Resp: 63316

Ion	Ratio	Lower	Upper
91	100		
106	27.8	23.5	35.3





#59

m/p-Xylene

Concen: 4.204 ppbv

RT: 9.535 min Scan# 2923

Delta R.T. -0.013 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 9982

Ion Ratio Lower Upper

91 100

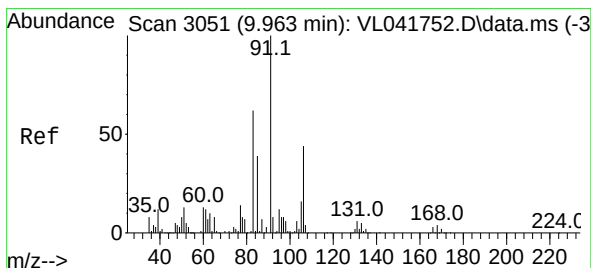
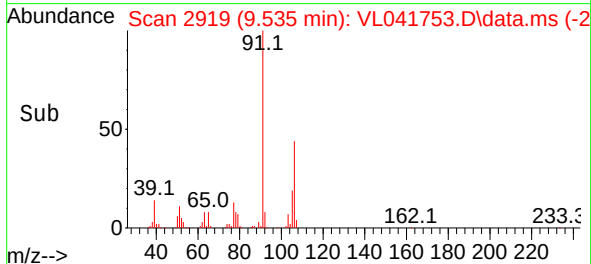
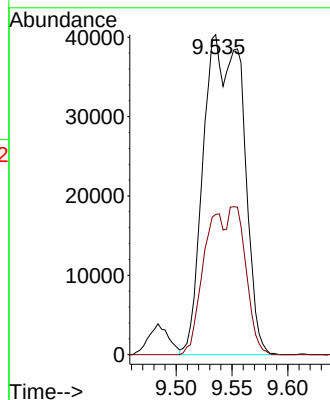
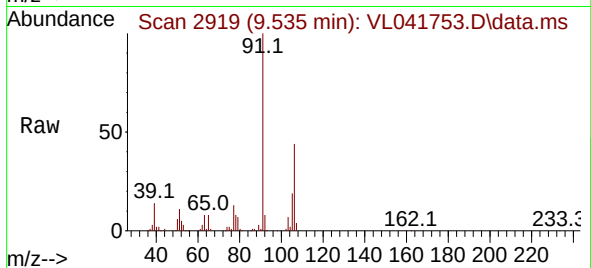
106 46.4 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#60

o-Xylene

Concen: 2.149 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL041753.D

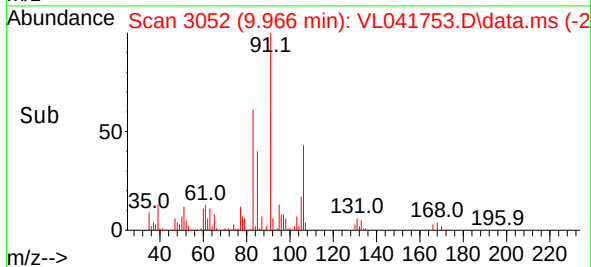
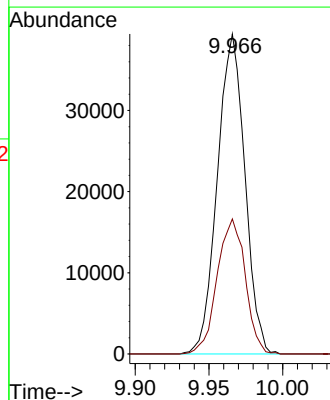
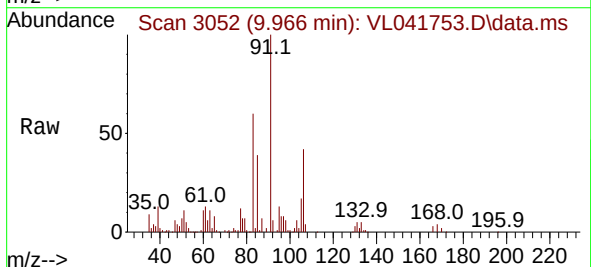
Acq: 16 Dec 2024 14:03

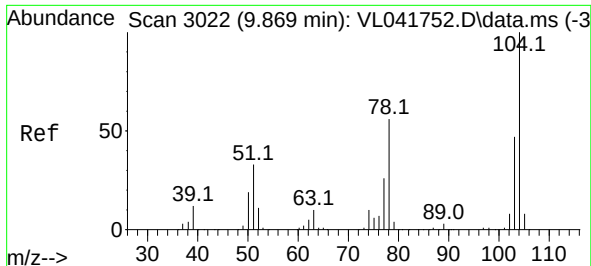
Tgt Ion: 91 Resp: 51152

Ion Ratio Lower Upper

91 100

106 43.1 21.1 63.4





#61
Styrene
Concen: 2.025 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

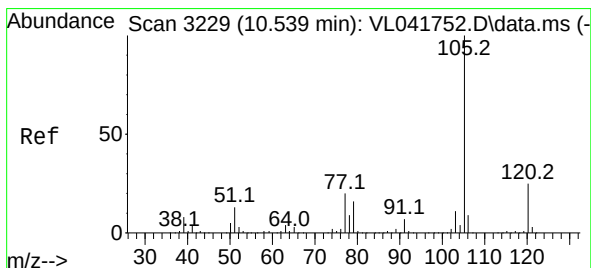
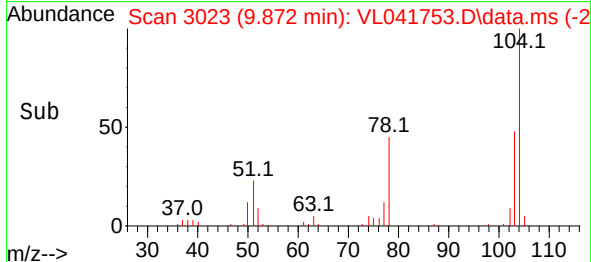
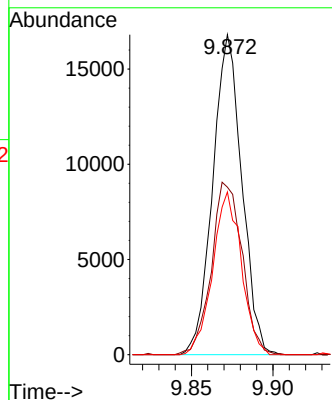
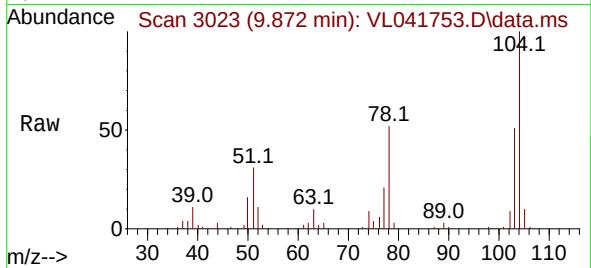
VSTDICC002

Tgt Ion:104 Resp: 2084
Ion Ratio Lower Upper
104 100
78 56.9 43.8 65.6
103 50.2 37.8 56.6

Manual Integrations

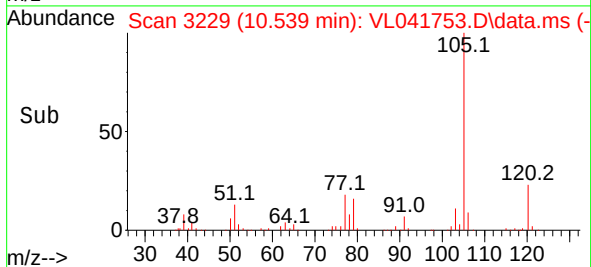
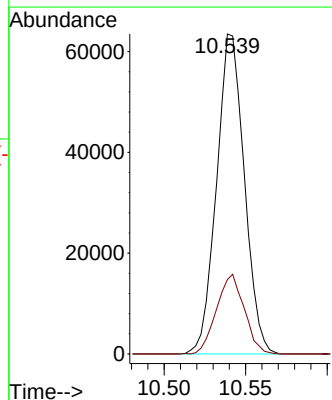
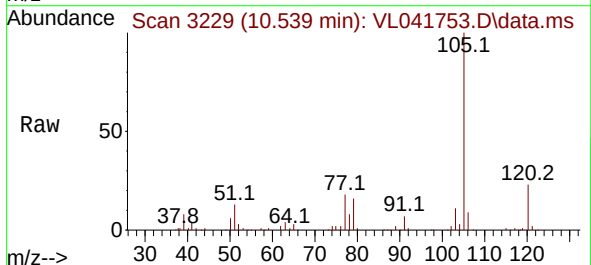
APPROVED

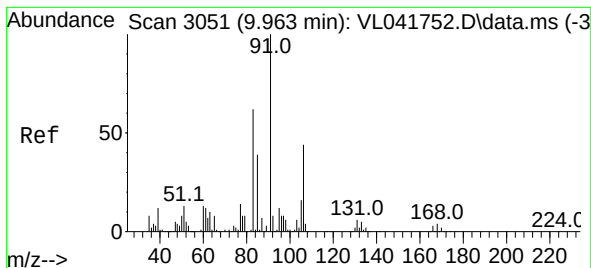
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#62
Isopropylbenzene
Concen: 2.103 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 75206
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.997 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

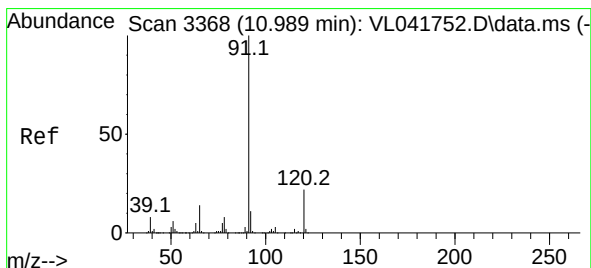
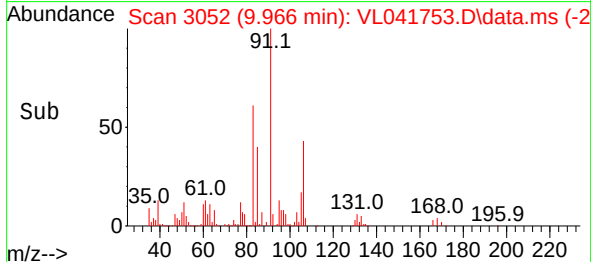
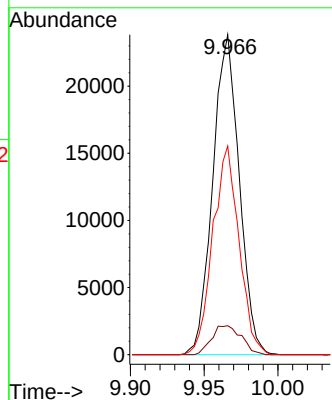
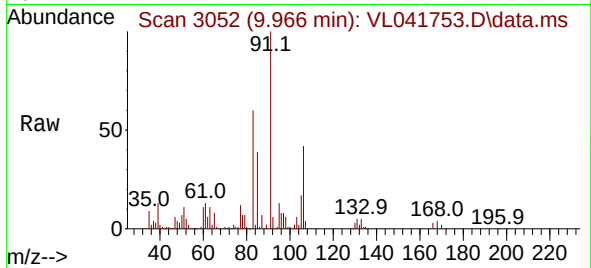
Tgt Ion:	83	Resp:	2975
Ion Ratio	Lower	Upper	
83	100		
131	10.2	4.9	14.7
85	64.4	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#64

n-propylbenzene

Concen: 2.117 ppbv

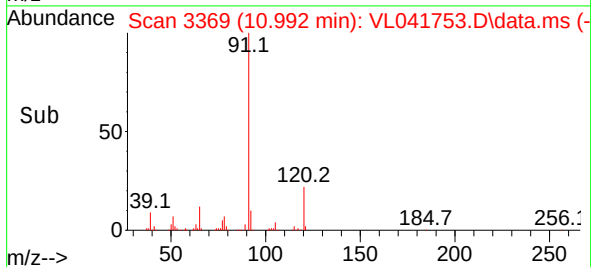
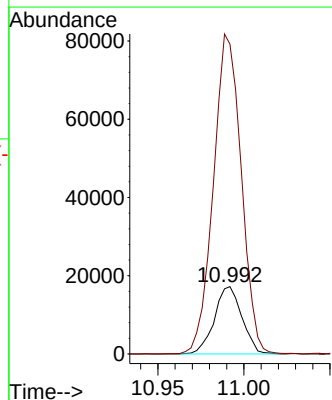
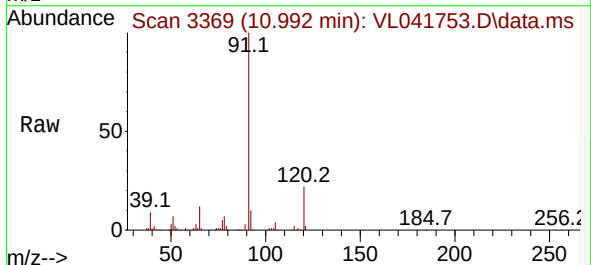
RT: 10.992 min Scan# 3369

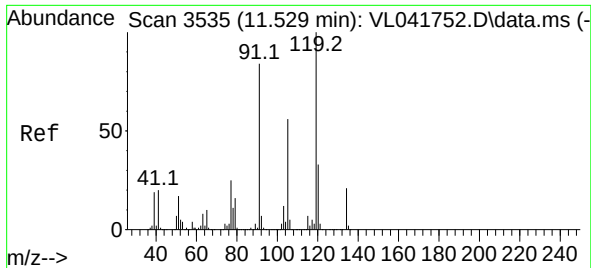
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:	120	Resp:	19146
Ion Ratio	Lower	Upper	
120	100		
91	482.0	387.3	580.9





#65

tert-Butylbenzene

Concen: 2.135 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:119 Resp: 68879

Ion Ratio Lower Upper

119 100

91 82.1 67.0 100.4

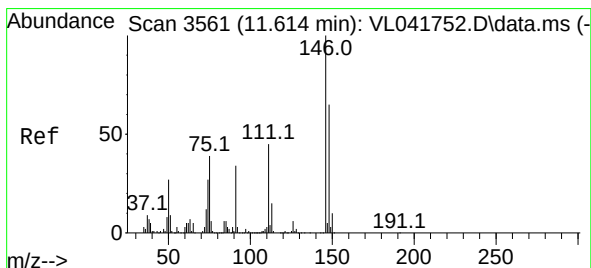
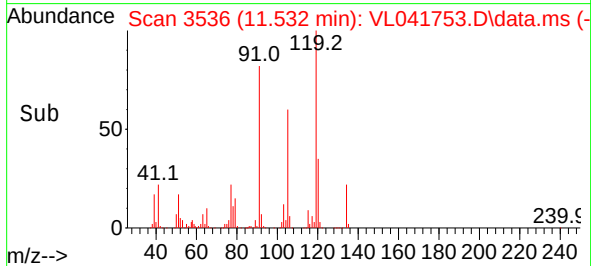
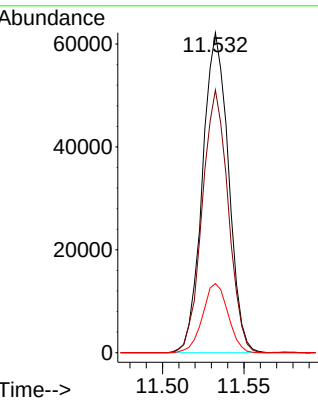
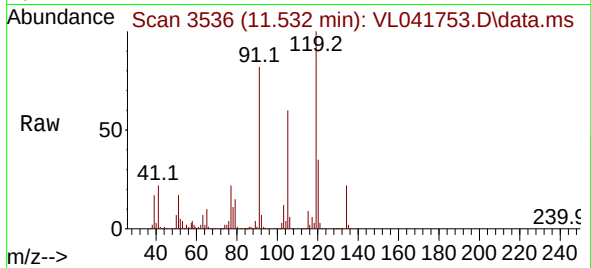
134 21.1 16.5 24.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#66

Benzyl Chloride

Concen: 1.898 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

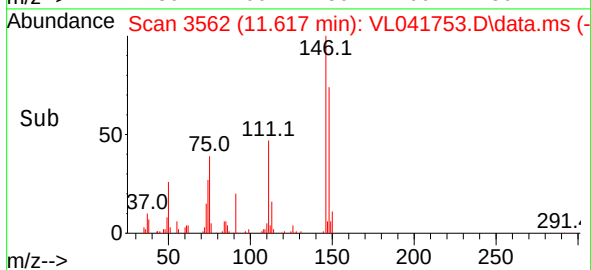
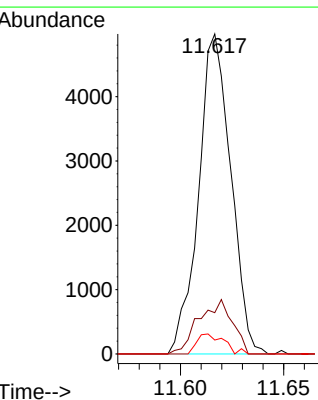
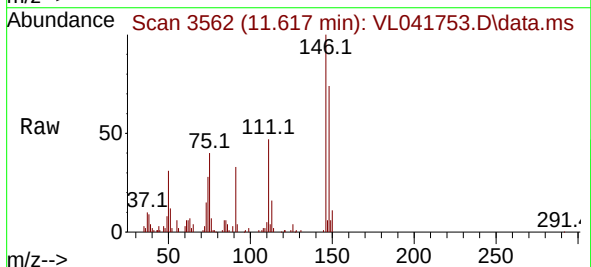
Tgt Ion: 91 Resp: 5400

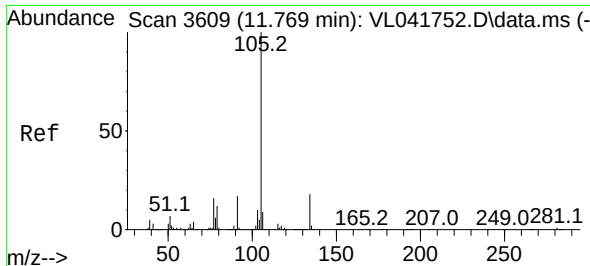
Ion Ratio Lower Upper

91 100

126 17.7 13.9 20.9

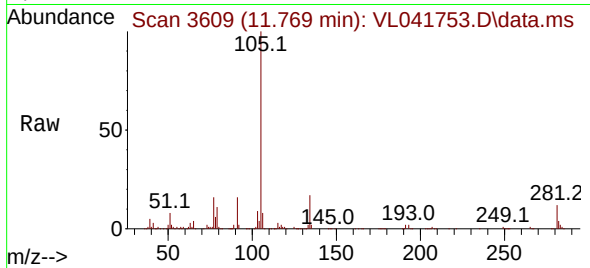
128 5.3 4.4 6.6





#67
 sec-Butylbenzene
 Concen: 2.149 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

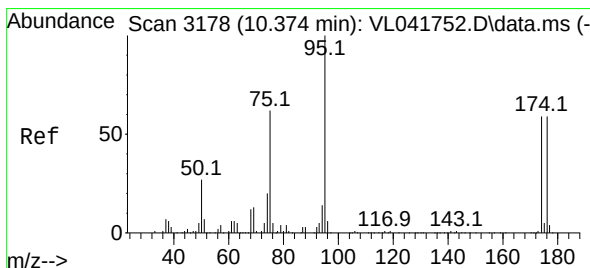
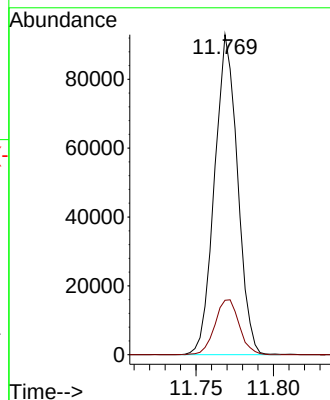
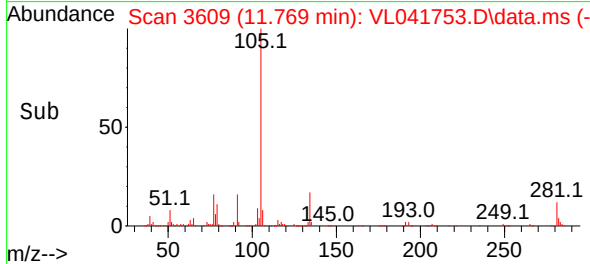
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



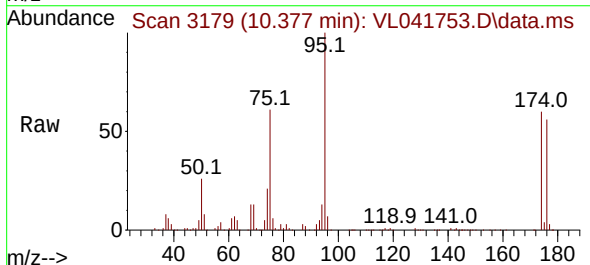
Tgt Ion:105 Resp: 95968
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.5 21.7

Manual Integrations
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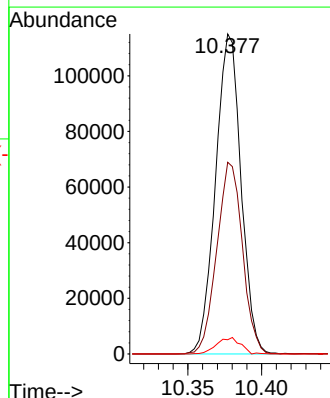
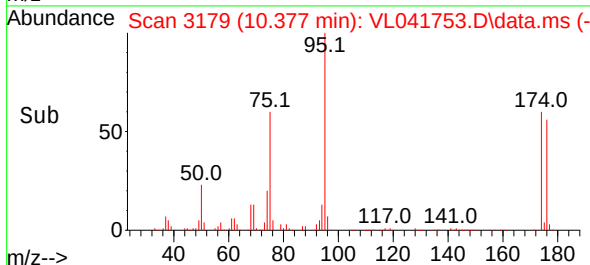
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

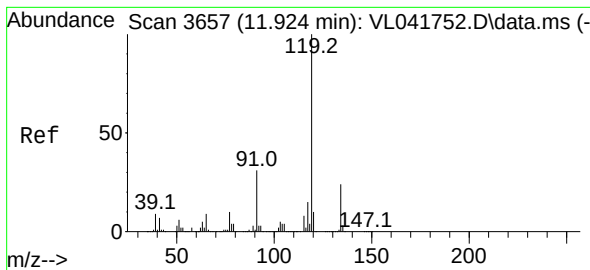


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.122 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03



Tgt Ion: 95 Resp: 138312
 Ion Ratio Lower Upper
 95 100
 174 60.2 47.6 71.4
 175 4.9 3.7 5.5





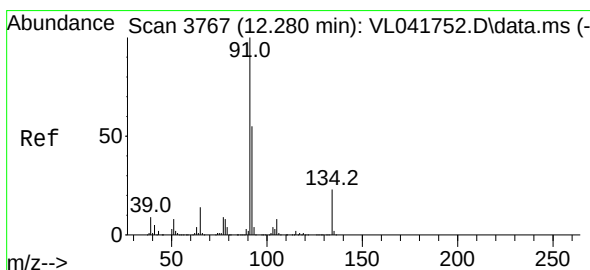
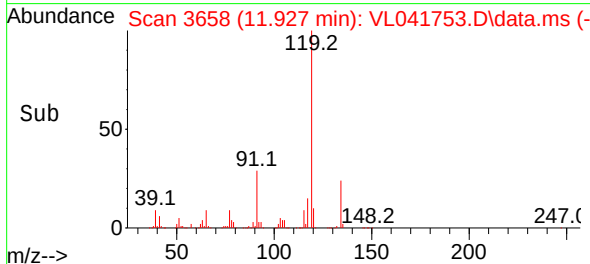
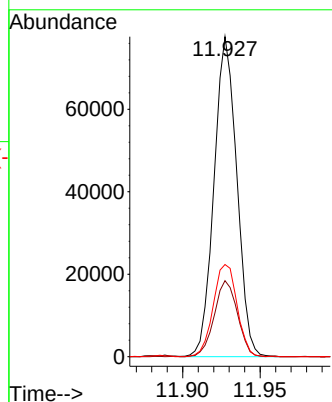
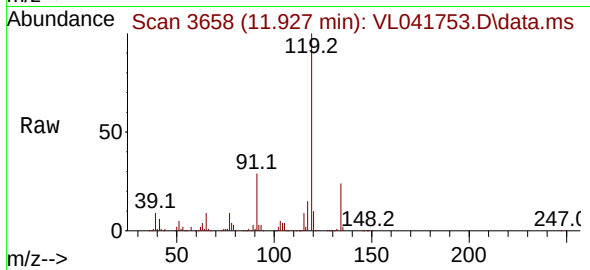
#69
p-Isopropyltoluene
Concen: 2.153 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:119 Resp: 79230
Ion Ratio Lower Upper
119 100
134 24.3 19.6 29.4
91 30.5 24.4 36.6

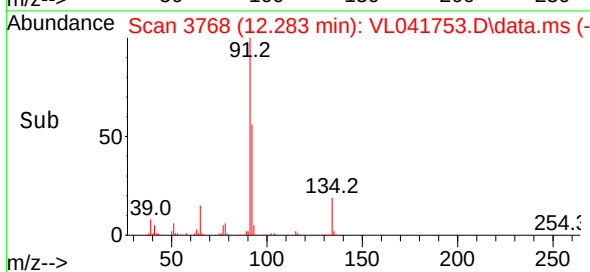
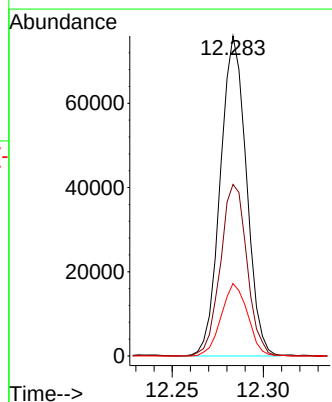
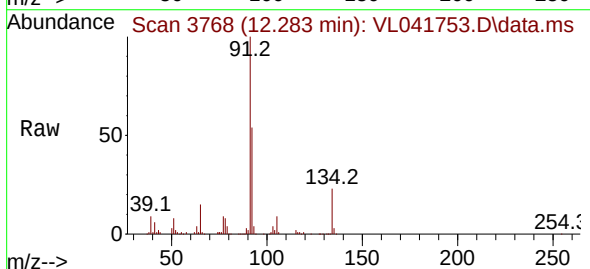
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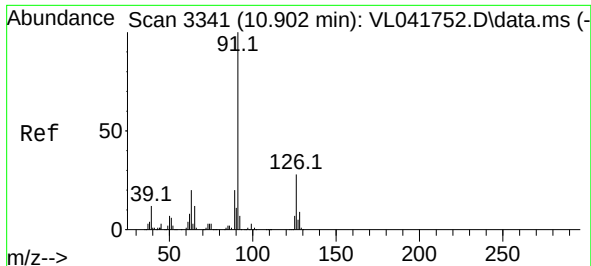
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#70
n-Butylbenzene
Concen: 2.122 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 91 Resp: 75430
Ion Ratio Lower Upper
91 100
92 54.7 43.2 64.8
134 23.0 18.2 27.4





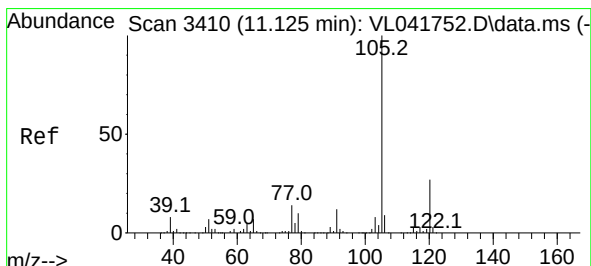
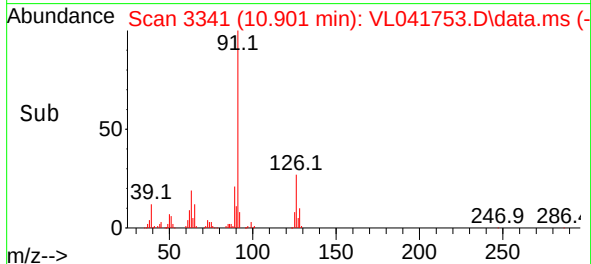
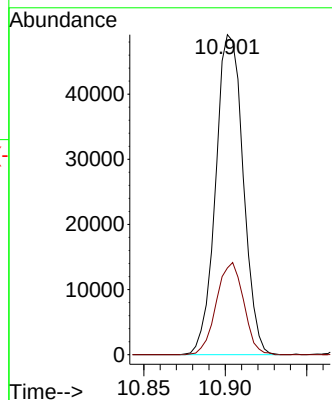
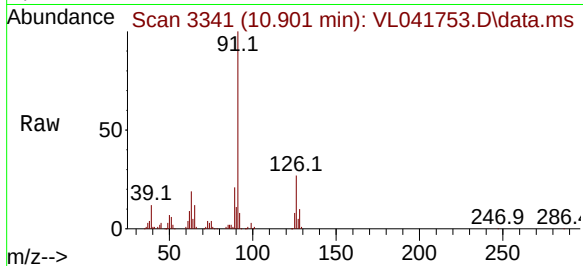
#71
2-Chlorotoluene
Concen: 2.114 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 57724
Ion Ratio Lower Upper
91 100
126 28.5 11.6 46.4

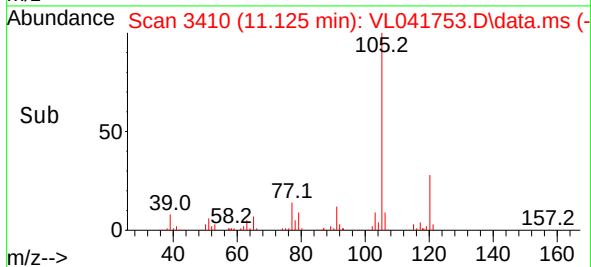
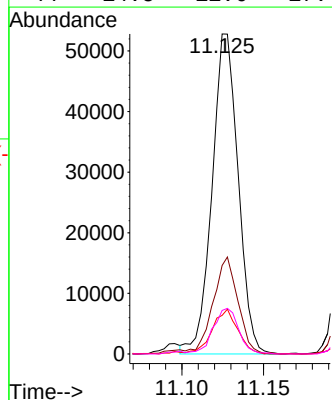
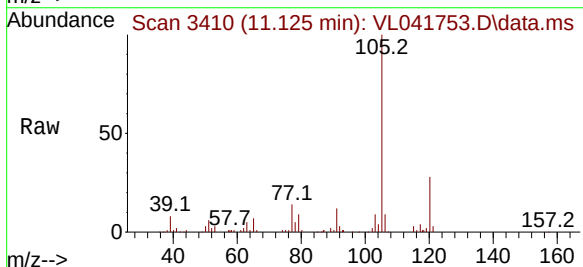
Manual Integrations
APPROVED

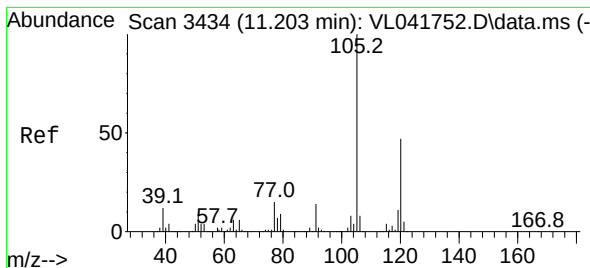
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#72
4-Ethyltoluene
Concen: 2.098 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 58841
Ion Ratio Lower Upper
105 100
120 29.7 23.3 34.9
91 14.3 10.9 16.3
77 14.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 2.087 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 4864

Ion Ratio Lower Upper

105 100

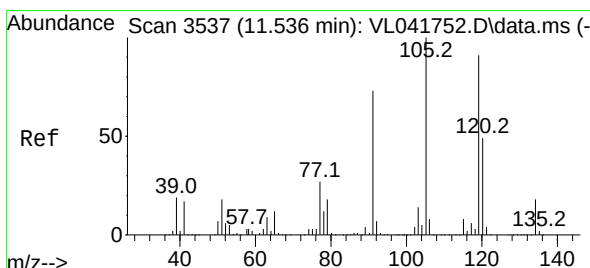
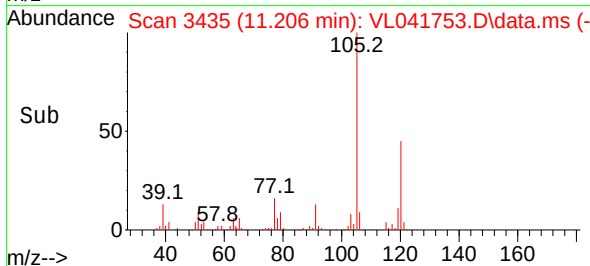
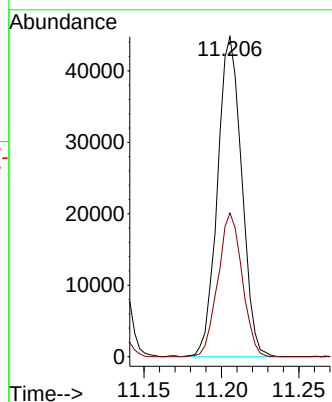
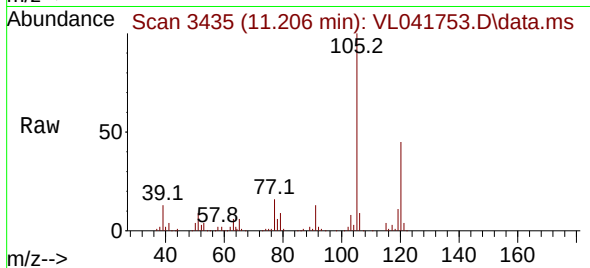
120 44.9 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 2.118 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 53084

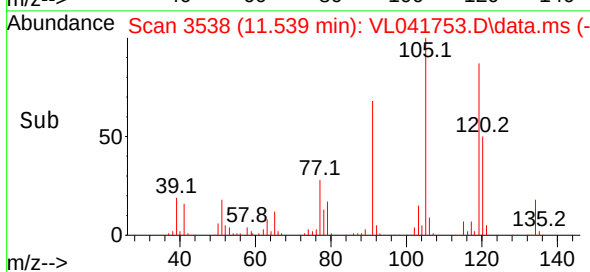
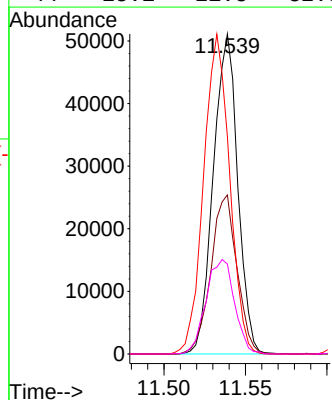
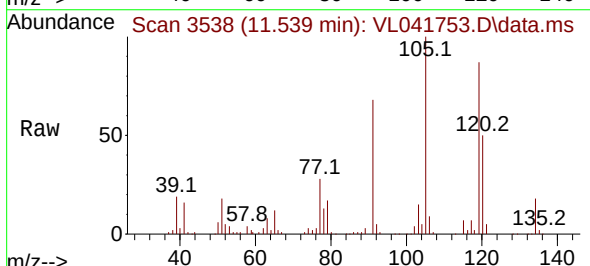
Ion Ratio Lower Upper

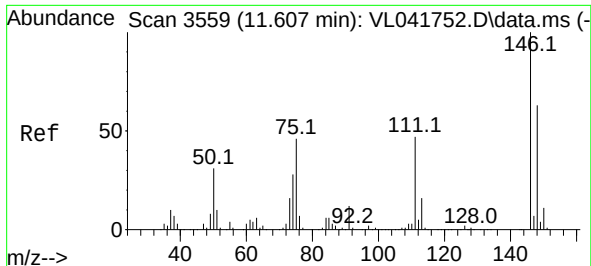
105 100

120 49.7 39.0 58.4

91 67.9 58.1 87.1

77 28.1 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 2.040 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

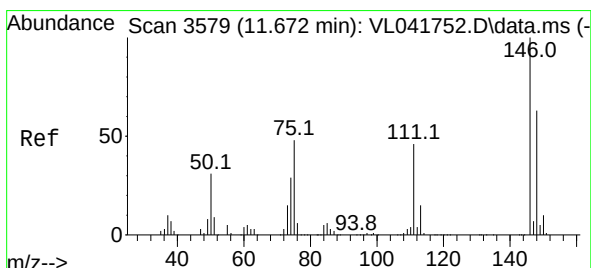
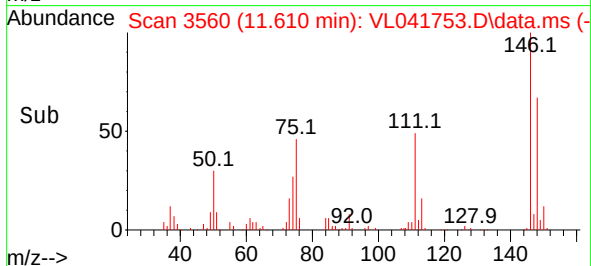
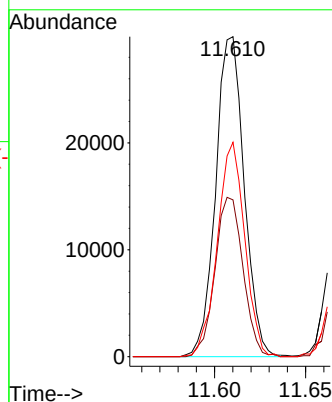
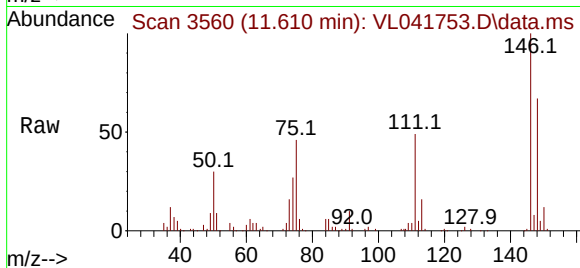
Tgt Ion:146 Resp: 32609

Ion	Ratio	Lower	Upper
146	100		
111	49.1	23.4	70.3
148	64.3	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#76

1,4-Dichlorobenzene

Concen: 2.060 ppbv

RT: 11.675 min Scan# 3580

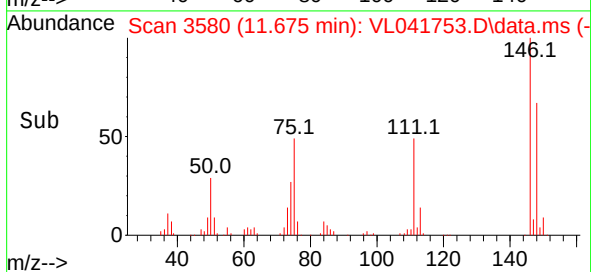
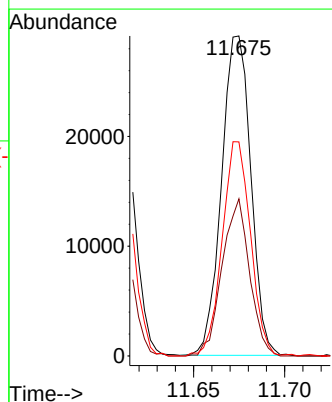
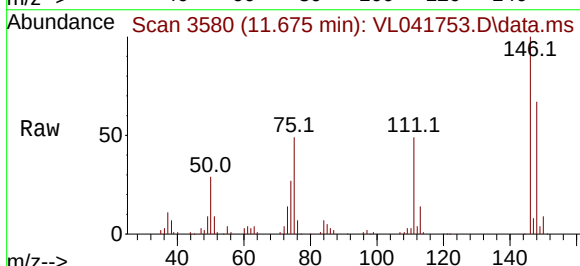
Delta R.T. 0.003 min

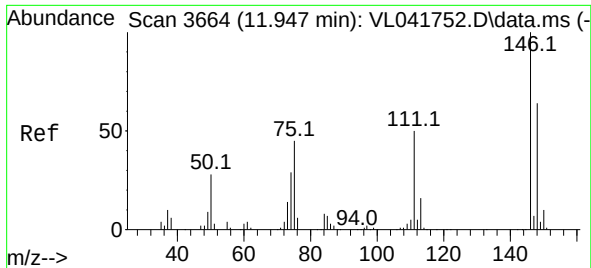
Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:146 Resp: 32527

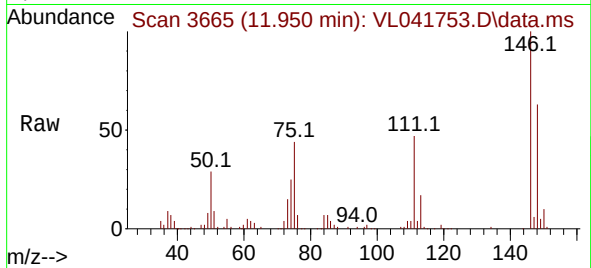
Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.7	68.1
148	65.1	31.4	94.0





#77
1,2-Dichlorobenzene
Concen: 2.095 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

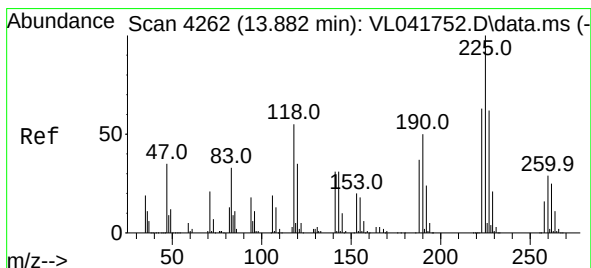
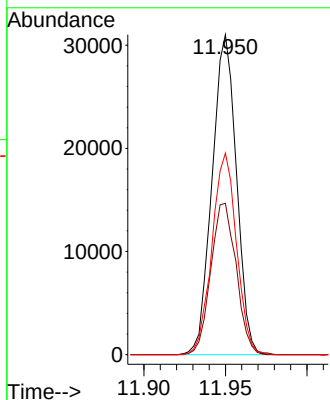
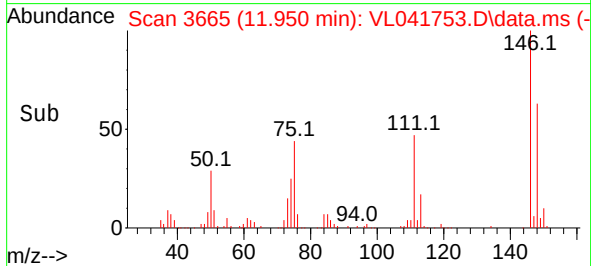
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



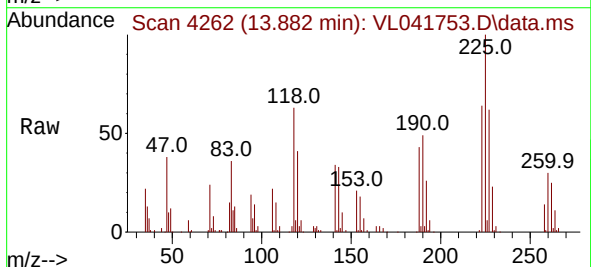
Tgt Ion:146 Resp: 32223
Ion Ratio Lower Upper
146 100
111 49.2 24.8 74.3
148 63.3 31.8 95.4

Manual Integrations
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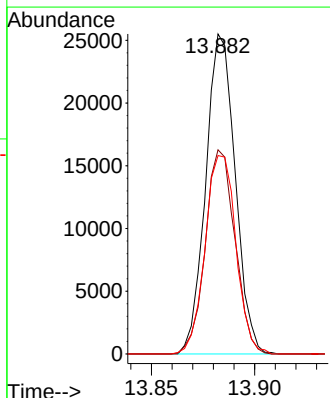
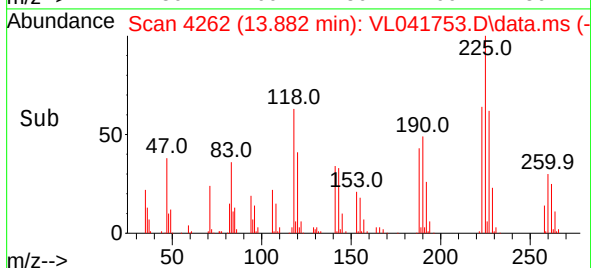
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

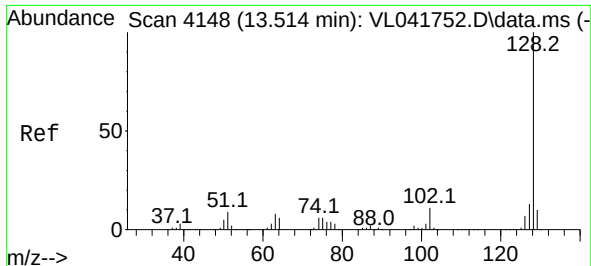


#78
Hexachloro-1,3-Butadiene
Concen: 2.224 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03



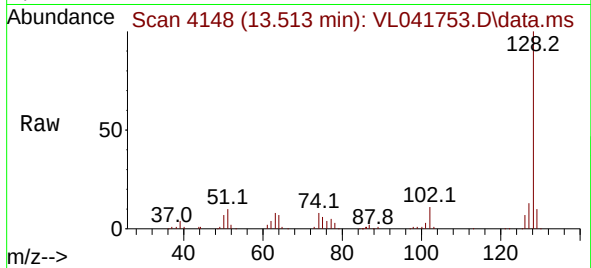
Tgt Ion:225 Resp: 25358
Ion Ratio Lower Upper
225 100
223 64.2 50.5 75.7
227 64.8 50.3 75.5





#79
Naphthalene
Concen: 2.167 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

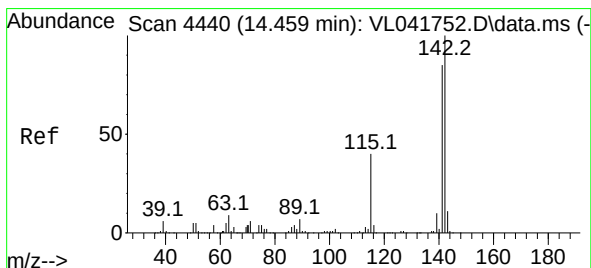
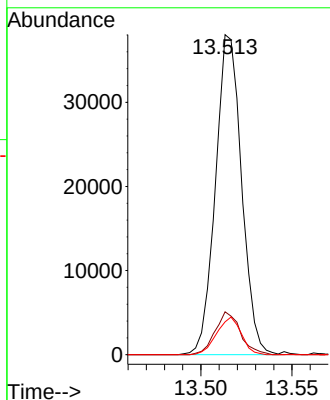
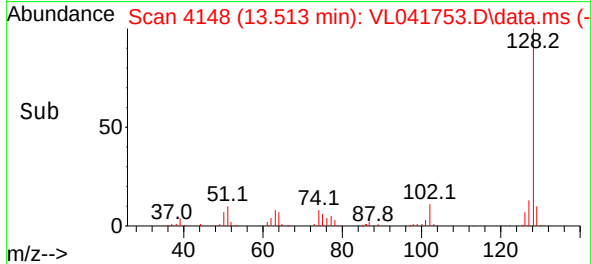
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



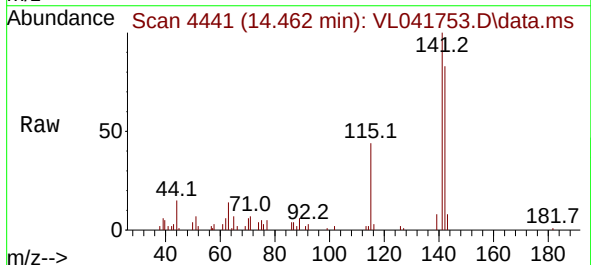
Tgt Ion:128 Resp: 3785
Ion Ratio Lower Upper
128 100
127 13.4 10.7 16.1
129 10.3 8.2 12.4

Manual Integrations
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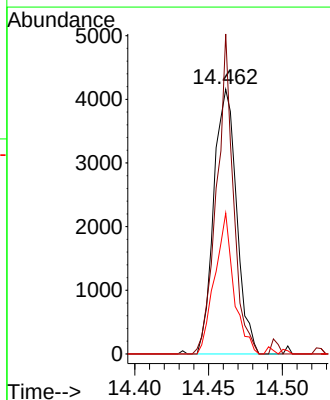
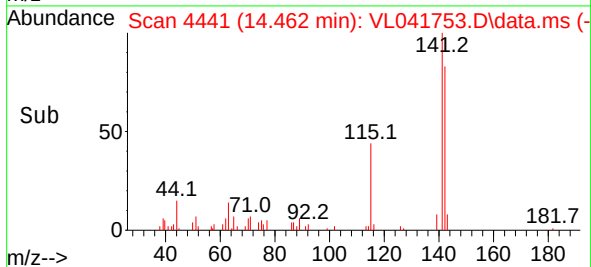
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

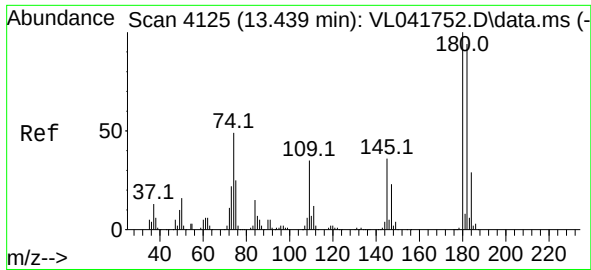


#80
Naphthalene,2-methyl-
Concen: 0.830 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03



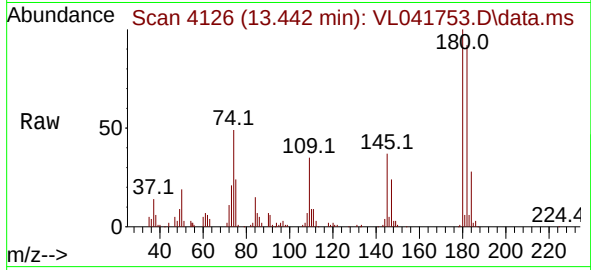
Tgt Ion:142 Resp: 4482
Ion Ratio Lower Upper
142 100
141 90.1 68.4 102.6
115 45.4 32.5 48.7





#81
1,2,4-Trichlorobenzene
Concen: 2.035 ppbv
RT: 13.442 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

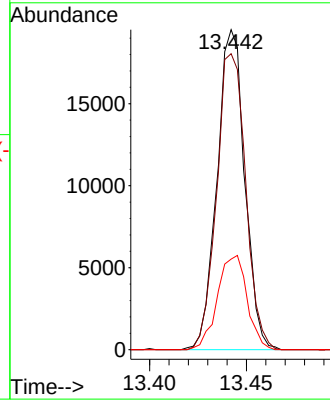
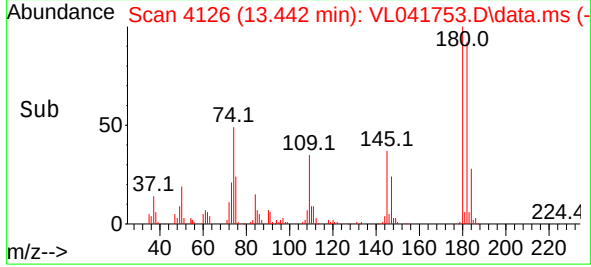
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:180 Resp: 19429
Ion Ratio Lower Upper
180 100
182 96.8 77.0 115.6
184 31.5 23.8 35.8

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 19 06:13:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.784	49	65928	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	178926	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	162267	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	132857	9.825	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	12706	1.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	11187	1.041	ppbv	98
4) Chloromethane	1.531	50	4805	1.047	ppbv	99
5) Vinyl Chloride	1.580	62	4580	0.990	ppbv	98
6) Bromomethane	1.667	94	2394	1.097	ppbv	99
7) Chloroethane	1.703	64	1763	0.981	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	10938	1.042	ppbv	99
9) Propene	1.483	41	4840	1.039	ppbv	94
10) Heptane	4.972	43	12004	1.003	ppbv	93
11) Trichlorofluoromethane	1.874	101	12625	1.013	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	9915	1.046	ppbv	98
13) Ethanol	1.719	45	525m	1.355	ppbv	
14) Bromoethene	1.780	108	3148	0.984	ppbv #	86
15) Acetone	1.832	43	15060	1.174	ppbv	99
16) 1,3-Butadiene	1.609	39	5137	1.017	ppbv	95
17) tert-Butyl alcohol	2.039	59	13341	1.048	ppbv	96
18) 1,1-Dichloroethene	2.033	96	4139	1.042	ppbv	96
19) Isopropyl Alcohol	1.884	45	8703	1.131	ppbv	100
20) Methylene Chloride	2.059	84	3868	1.057	ppbv	92
21) Allyl Chloride	2.094	41	7425	1.067	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	4599	1.011	ppbv	96
23) Vinyl Acetate	2.460	43	5345	0.959	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9621	1.045	ppbv	98
25) Ethyl Acetate	2.836	43	25141	1.049	ppbv	99
26) Hexane	2.826	57	9250	1.021	ppbv	93
27) Carbon Disulfide	2.149	76	8152	0.999	ppbv #	19
28) Methyl tert-Butyl Ether	2.441	73	8539	1.162	ppbv	94
29) Chloroform	2.845	83	14384	1.042	ppbv	96
30) Cyclohexane	3.852	84	7824	1.015	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	10013	1.070	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	14415	1.049	ppbv	98
34) 2-Butanone	2.557	43	14673	1.019	ppbv	99
35) Carbon Tetrachloride	3.761	117	12808m	1.008	ppbv	
36) Benzene	3.651	78	19331	1.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	11490	0.998	ppbv #	94
38) Trichloroethene	4.551	130	7824m	1.004	ppbv	
39) 1,2-Dichloropropane	4.311	63	7068	1.056	ppbv	86
40) 1,4-Dioxane	4.596	88	3241	0.991	ppbv #	40
41) Tetrahydrofuran	3.062	42	8727	1.082	ppbv	97
42) Bromodichloromethane	4.489	83	13154	0.993	ppbv	100
43) Methyl Methacrylate	4.875	69	7044m	0.999	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	32361	1.024	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	7027	0.963	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:13:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

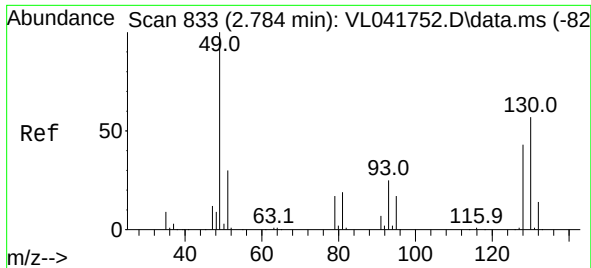
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8815m	0.952	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	7189m	1.028	ppbv	
48) Dibromochloromethane	7.383	129	8817	0.924	ppbv	97
49) Bromoform	9.480	173	7073	0.905	ppbv	96
50) 4-Methyl-2-Pentanone	5.761	43	20212	1.031	ppbv	100
51) 2-Hexanone	7.441	43	16514	1.040	ppbv #	99
52) Tetrachloroethene	8.225	164	7067m	1.026	ppbv	
53) Toluene	6.930	91	21594	1.029	ppbv	100
54) 1,2-Dibromoethane	7.648	107	9758	1.013	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	8643	1.005	ppbv	93
57) Chlorobenzene	8.920	112	17500	1.054	ppbv	97
58) Ethyl Benzene	9.351	91	29762	1.019	ppbv	98
59) m/p-Xylene	9.529	91	47599m	2.026	ppbv	
60) o-Xylene	9.963	91	24210	1.028	ppbv	98
61) Styrene	9.869	104	9707	0.953	ppbv	100
62) Isopropylbenzene	10.539	105	36251	1.024	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	14752	1.001	ppbv	98
64) n-propylbenzene	10.985	120	9432	1.054	ppbv	91
65) tert-Butylbenzene	11.529	119	32887	1.030	ppbv	100
66) Benzyl Chloride	11.610	91	2518	0.894	ppbv	97
67) sec-Butylbenzene	11.765	105	45015	1.019	ppbv	98
69) p-Isopropyltoluene	11.924	119	36298	0.997	ppbv	98
70) n-Butylbenzene	12.280	91	35432	1.007	ppbv	98
71) 2-Chlorotoluene	10.901	91	27561	1.020	ppbv	97
72) 4-Ethyltoluene	11.125	105	26921	0.970	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	22360	0.969	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	24654	0.994	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	16476	1.042	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	15774	1.010	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	15866	1.043	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	12266	1.087	ppbv	97
79) Naphthalene	13.513	128	16971	0.982	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	1504	0.281	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.439	180	8973	0.950	ppbv	96

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



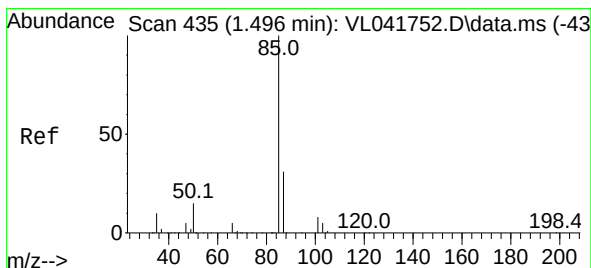
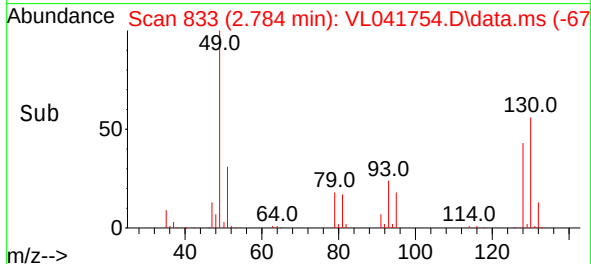
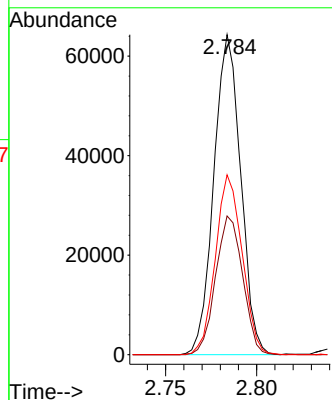
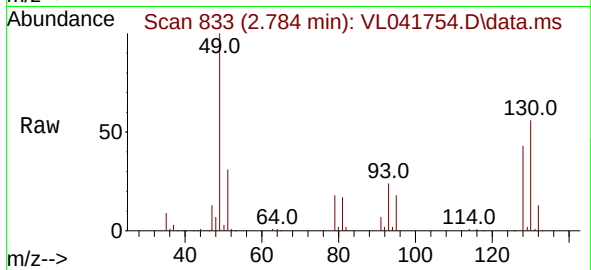
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 65928
Ion Ratio Lower Upper
49 100
128 43.6 21.6 64.6
130 56.0 28.3 85.0

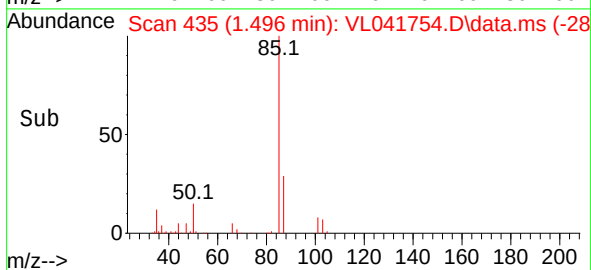
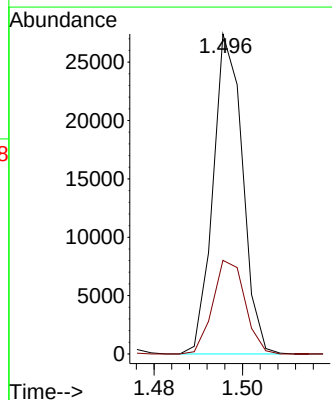
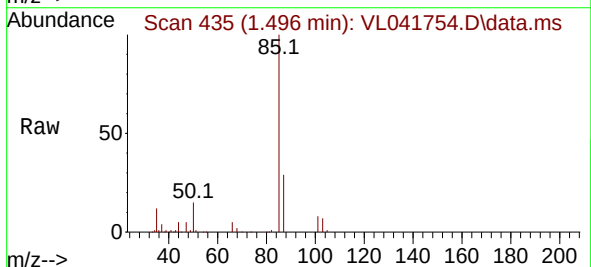
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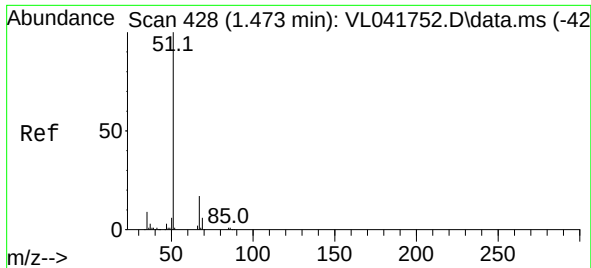
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#2
Dichlorodifluoromethane
Concen: 1.083 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 85 Resp: 12706
Ion Ratio Lower Upper
85 100
87 29.3 24.5 36.7





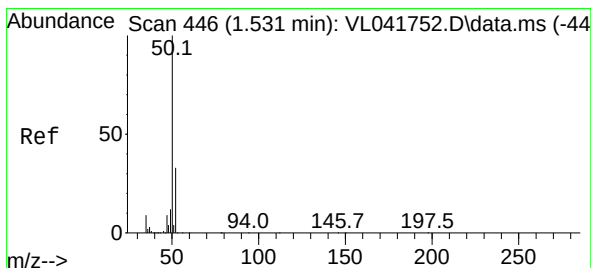
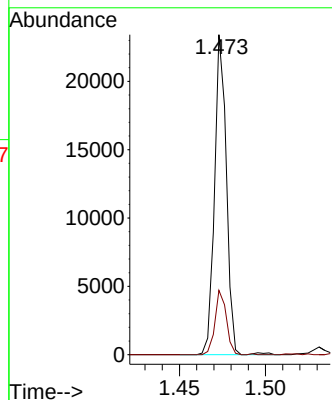
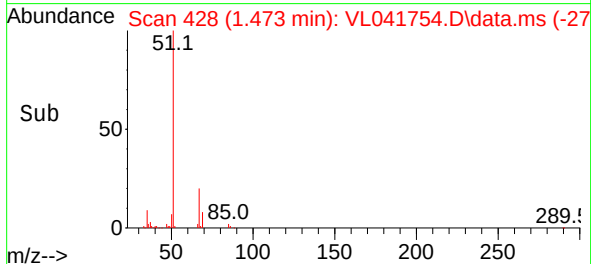
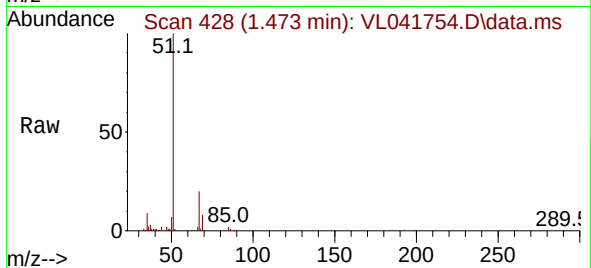
#3
Chlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 1118
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.4

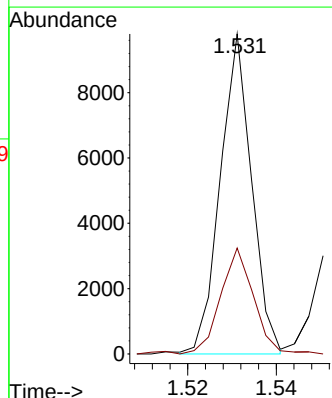
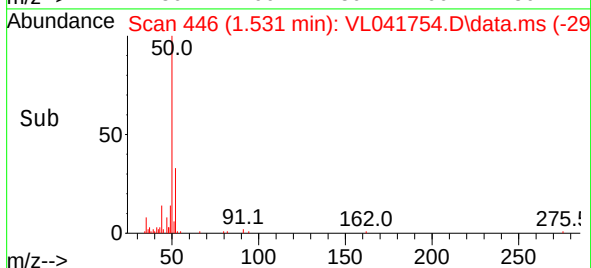
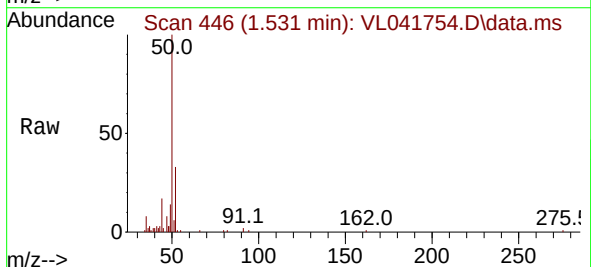
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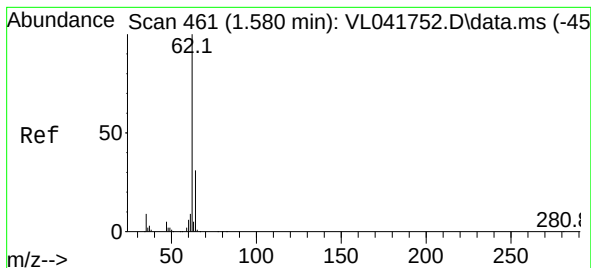
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 1.047 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 50 Resp: 4805
Ion Ratio Lower Upper
50 100
52 33.3 26.2 39.2





#5

Vinyl Chloride

Concen: 0.990 ppbv

RT: 1.580 min Scan# 4

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 4580

Ion Ratio Lower Upper

62 100

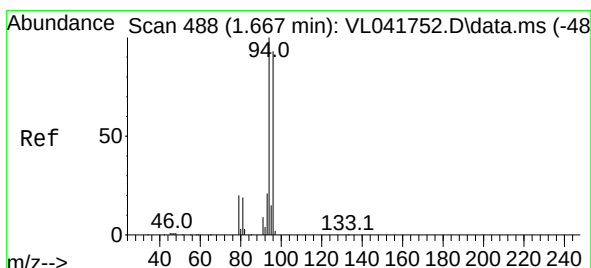
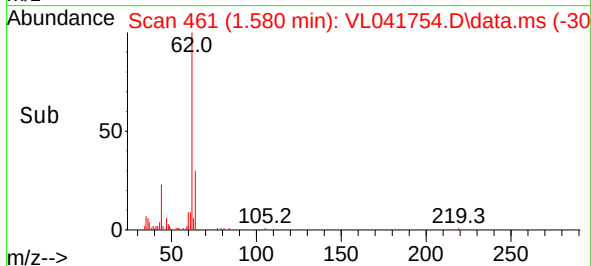
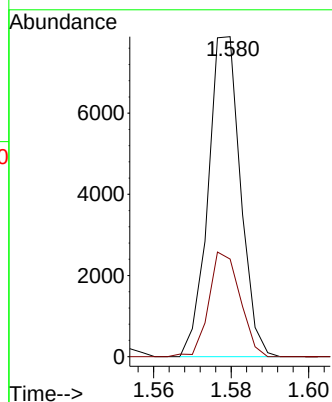
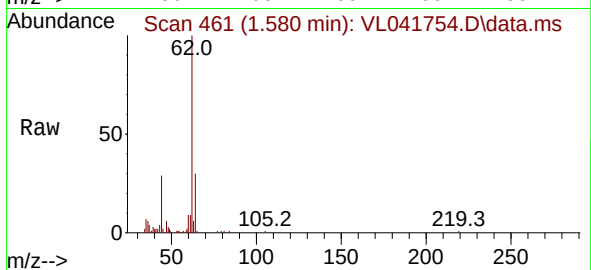
64 30.5 25.1 37.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#6

Bromomethane

Concen: 1.097 ppbv

RT: 1.667 min Scan# 488

Delta R.T. -0.000 min

Lab File: VL041754.D

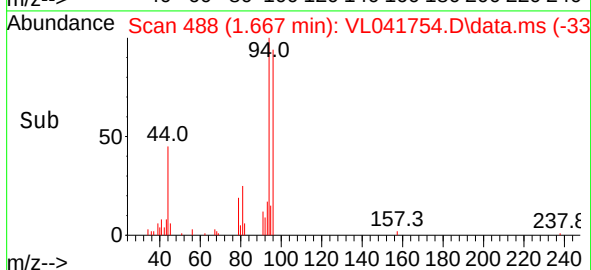
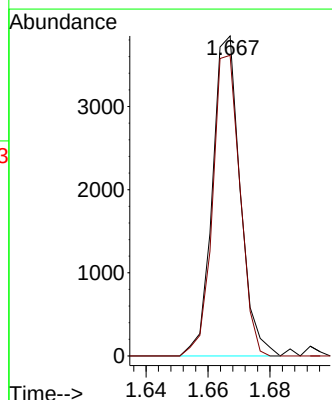
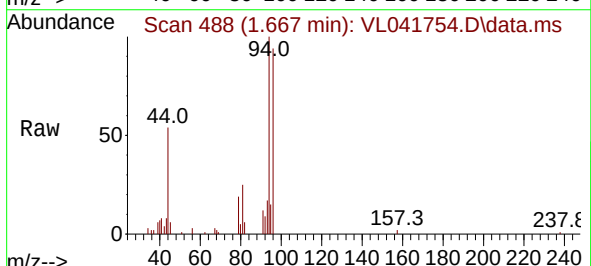
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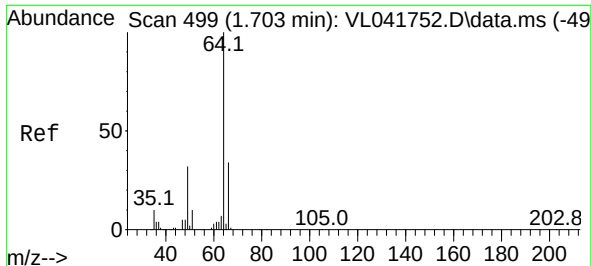
Tgt Ion: 94 Resp: 2394

Ion Ratio Lower Upper

94 100

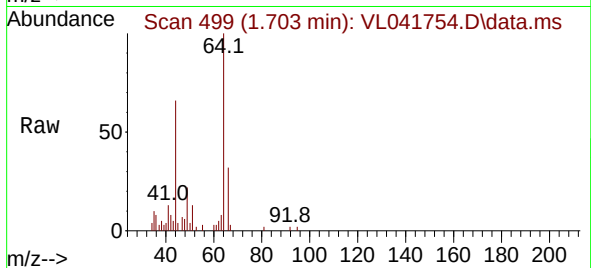
96 94.0 74.7 112.1





#7
Chloroethane
Concen: 0.981 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

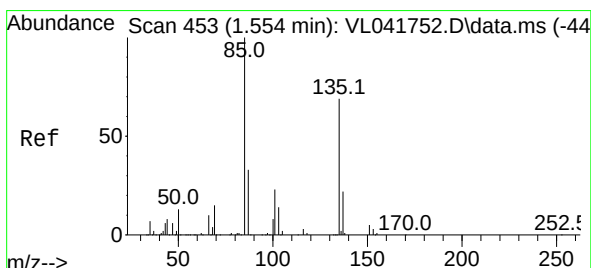
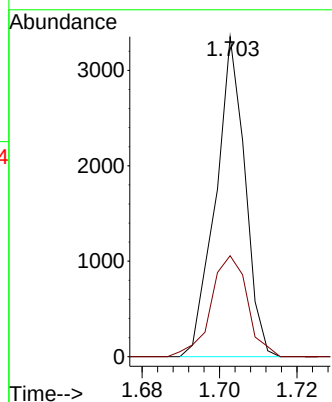
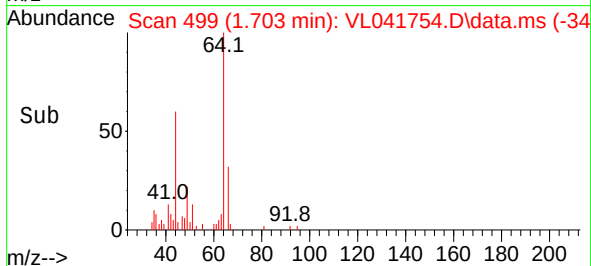
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 1763
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3

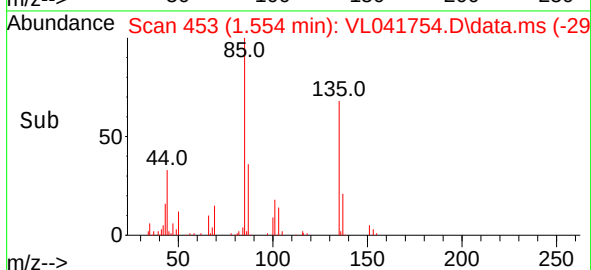
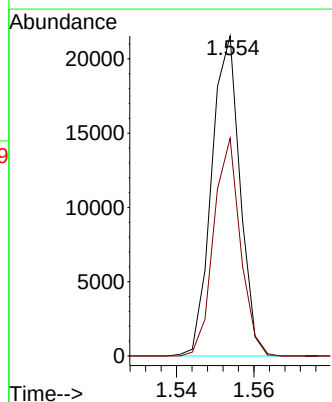
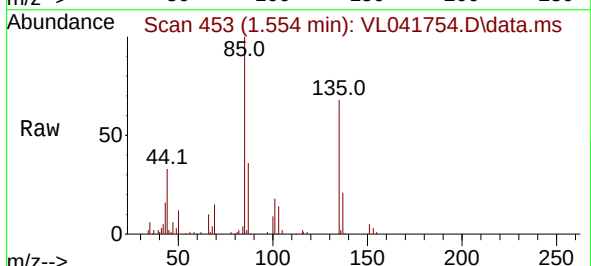
Manual Integrations
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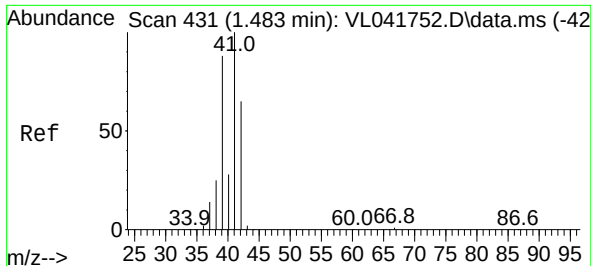
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 1.042 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 85 Resp: 10938
Ion Ratio Lower Upper
85 100
135 64.3 51.9 77.9





#9

Propene

Concen: 1.039 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 4840

Ion Ratio Lower Upper

41 100

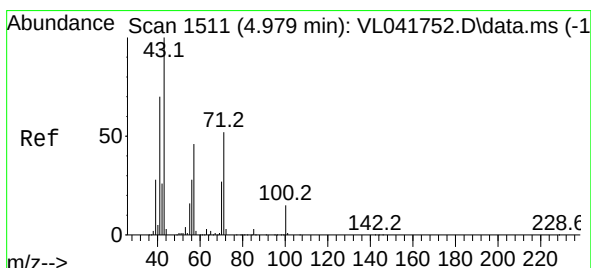
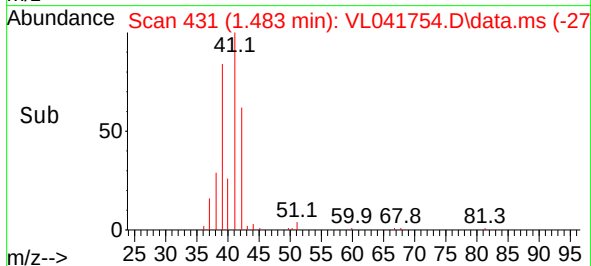
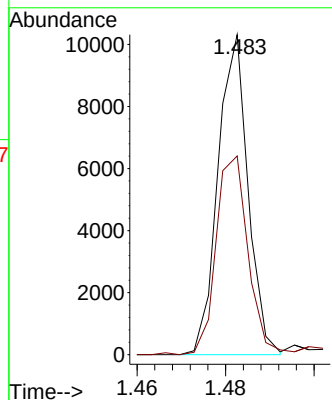
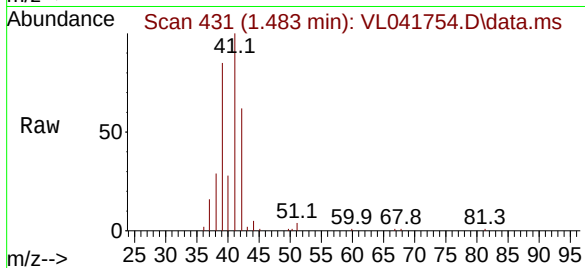
42 70.4 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#10

Heptane

Concen: 1.003 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.007 min

Lab File: VL041754.D

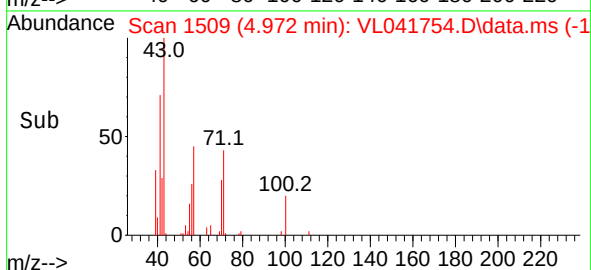
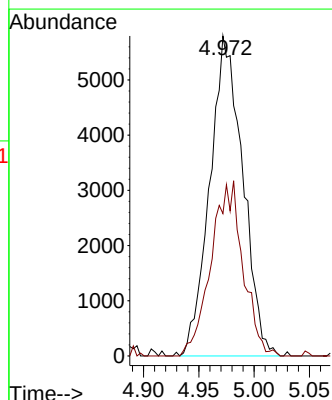
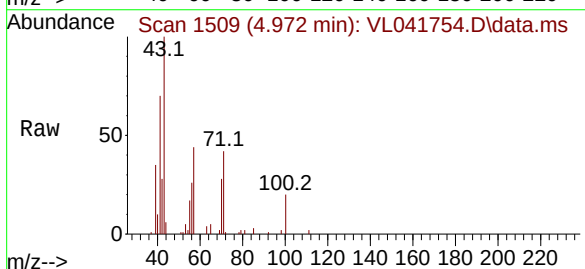
Acq: 16 Dec 2024 14:34

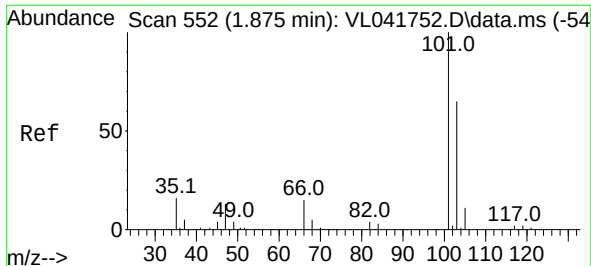
Tgt Ion: 43 Resp: 12004

Ion Ratio Lower Upper

43 100

57 53.0 38.5 57.7





#11

Trichlorofluoromethane

Concen: 1.013 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:101 Resp: 1262

Ion Ratio Lower Upper

101 100

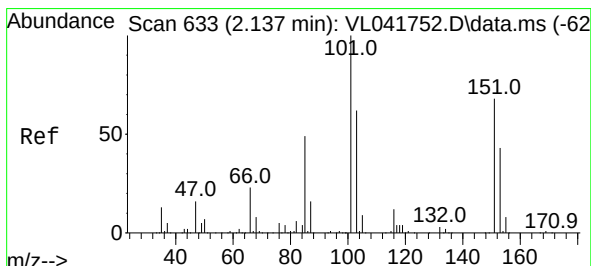
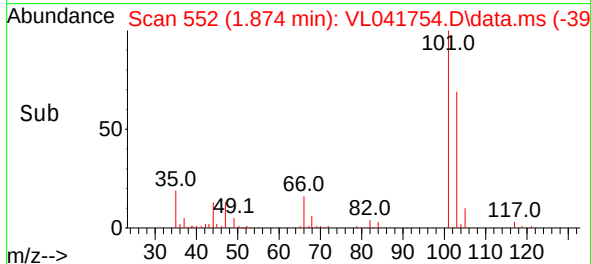
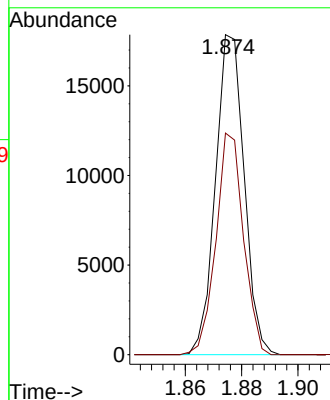
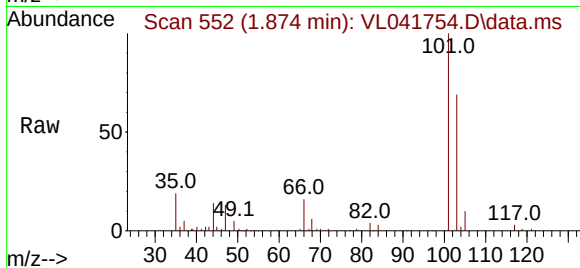
103 69.3 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.046 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL041754.D

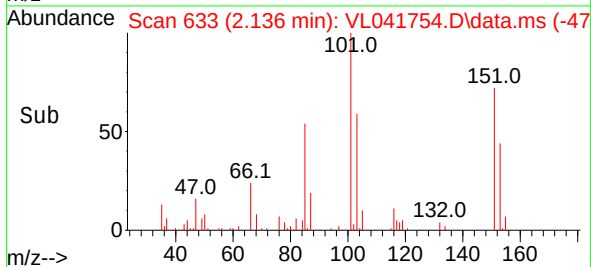
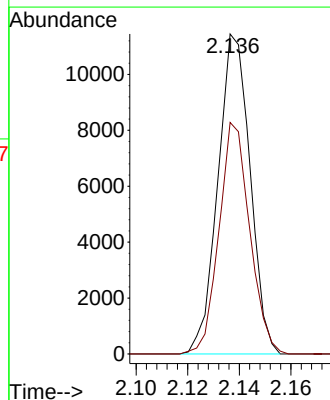
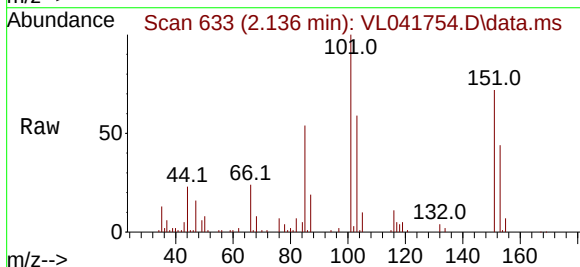
Acq: 16 Dec 2024 14:34

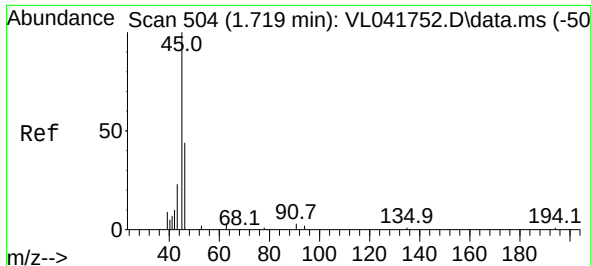
Tgt Ion:101 Resp: 9915

Ion Ratio Lower Upper

101 100

151 69.1 56.8 85.2





#13

Ethanol

Concen: 1.355 ppbv m

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041754.D

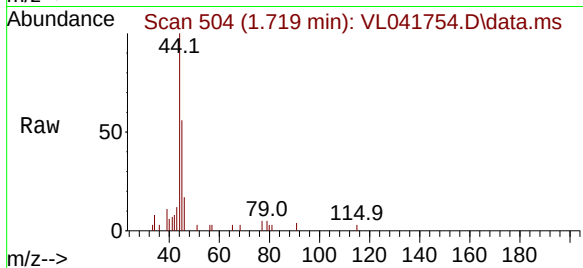
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

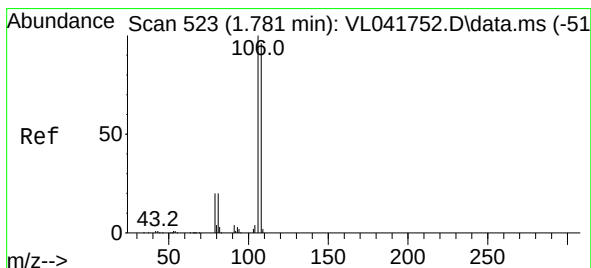
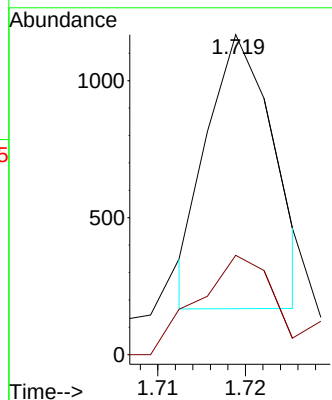
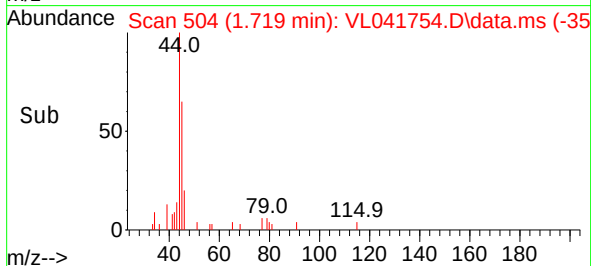


Tgt Ion: 45 Resp: 524
 Ion Ratio Lower Upper
 45 100
 46 67.0 16.4 65.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#14

Bromoethene

Concen: 0.984 ppbv

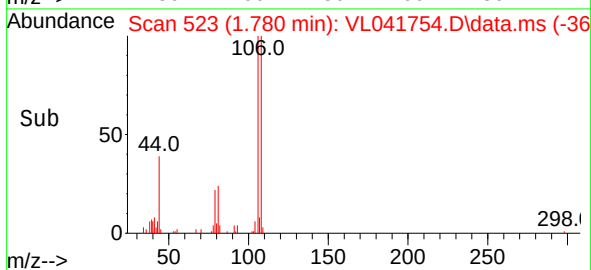
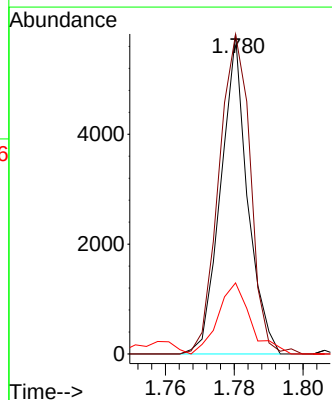
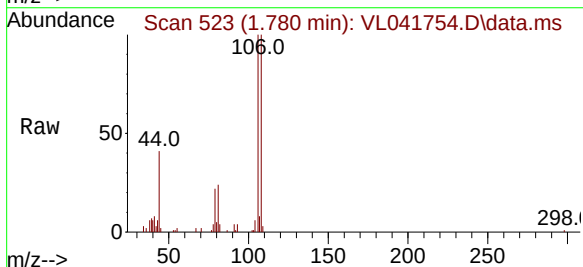
RT: 1.780 min Scan# 523

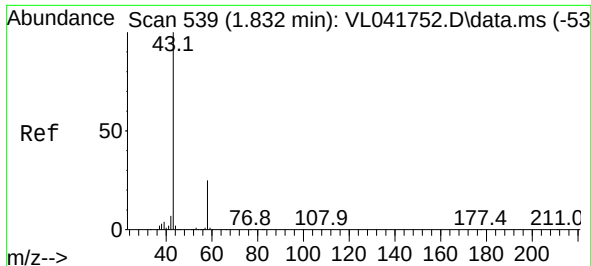
Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

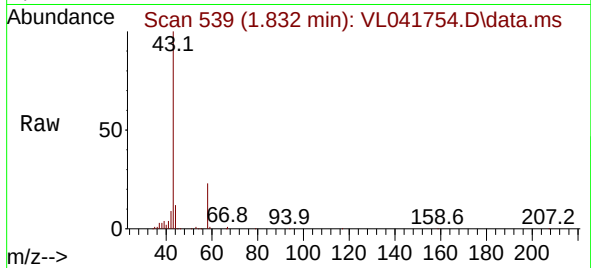
Tgt Ion:108 Resp: 3148
 Ion Ratio Lower Upper
 108 100
 106 117.5 84.1 126.1
 79 32.4 17.4 26.0





#15
Acetone
Concen: 1.174 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

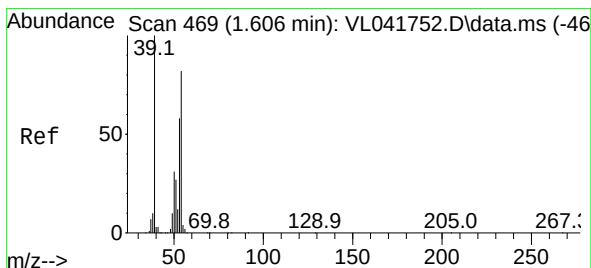
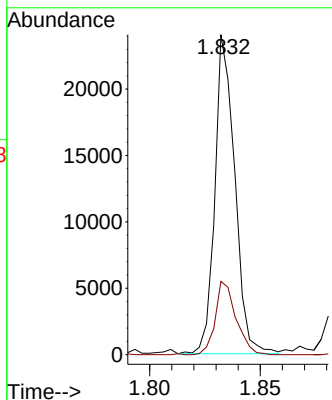
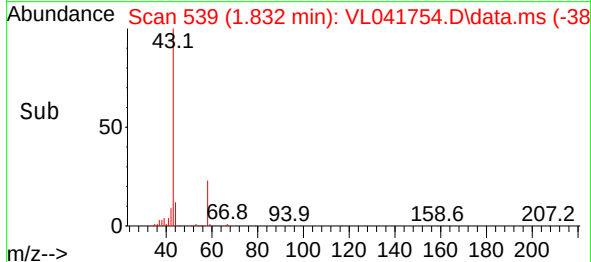
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



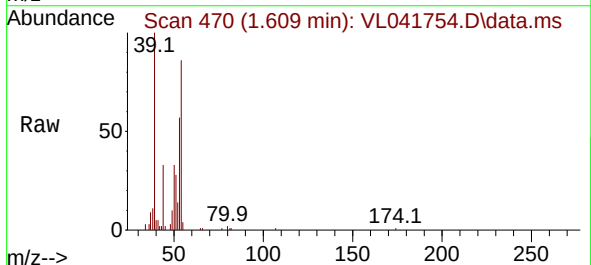
Tgt Ion: 43 Resp: 15060
Ion Ratio Lower Upper
43 100
58 24.0 19.7 29.5

Manual Integrations
APPROVED

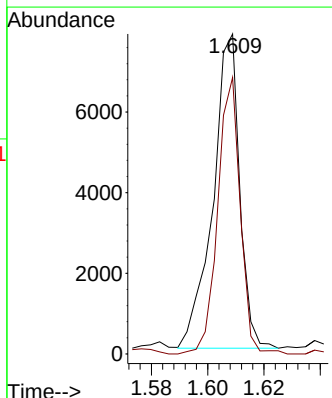
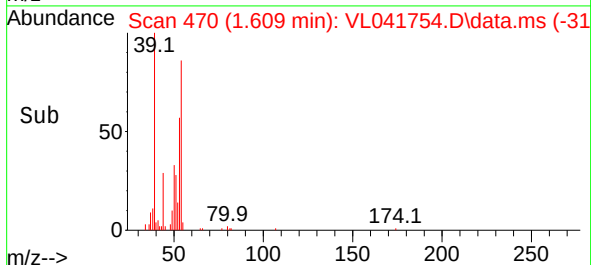
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

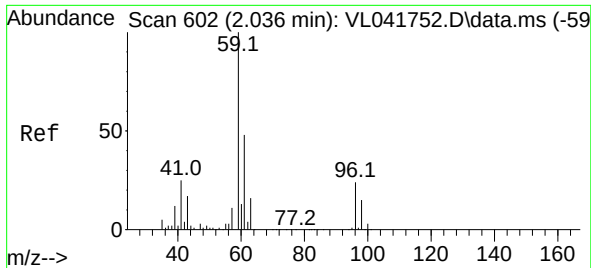


#16
1,3-Butadiene
Concen: 1.017 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



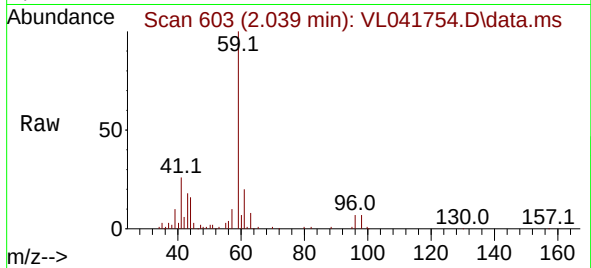
Tgt Ion: 39 Resp: 5137
Ion Ratio Lower Upper
39 100
54 77.0 58.4 87.6





#17
tert-Butyl alcohol
Concen: 1.048 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

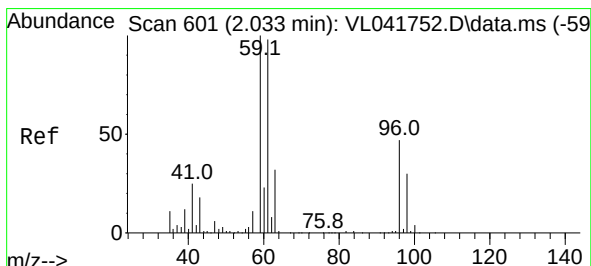
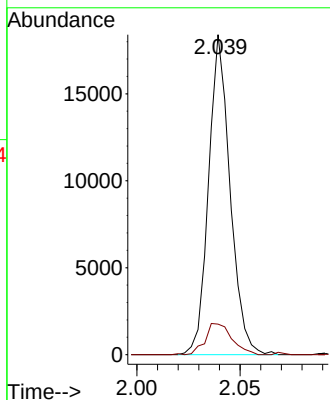
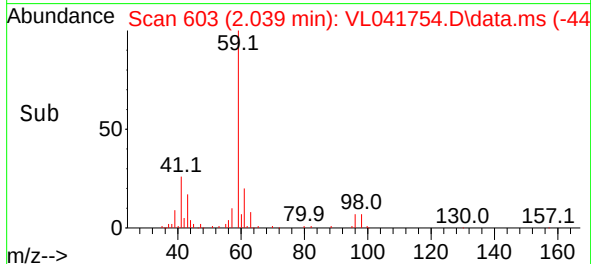
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



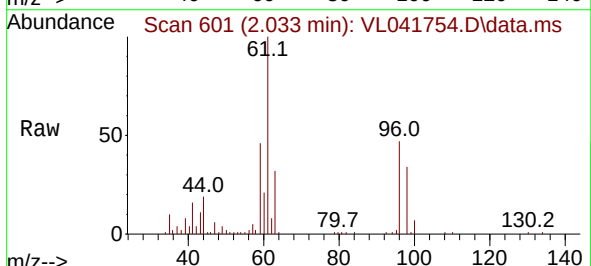
Tgt Ion: 59 Resp: 1334
Ion Ratio Lower Upper
59 100
57 12.4 8.6 13.0

Manual Integrations
APPROVED

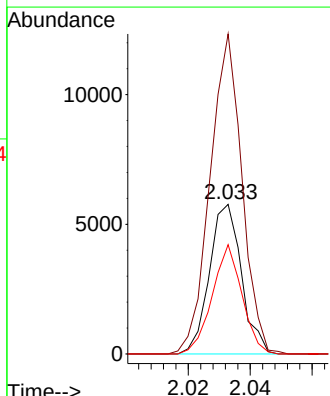
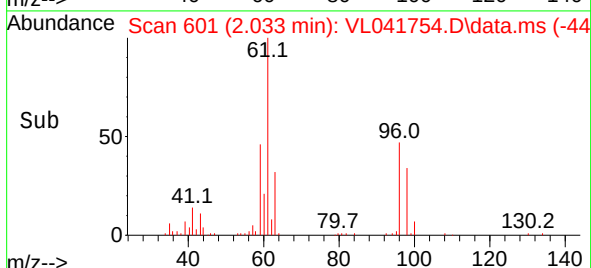
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

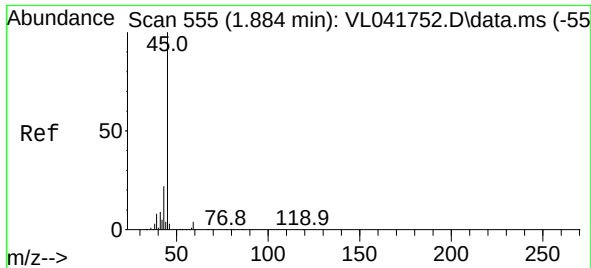


#18
1,1-Dichloroethene
Concen: 1.042 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



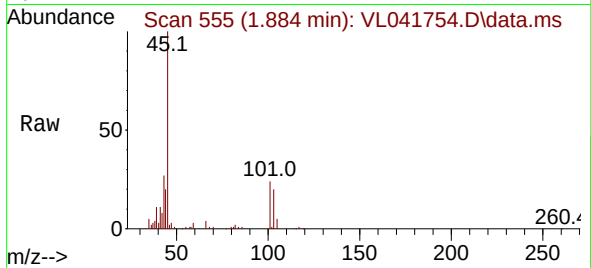
Tgt Ion: 96 Resp: 4139
Ion Ratio Lower Upper
96 100
61 212.1 167.7 251.5
98 73.0 51.1 76.7





#19
Isopropyl Alcohol
Concen: 1.131 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

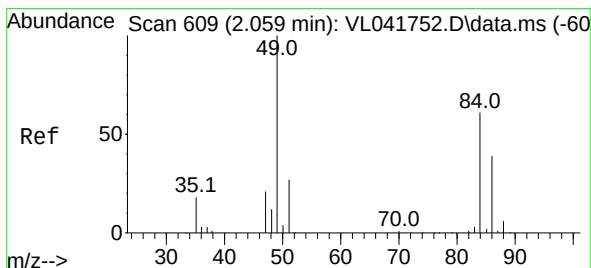
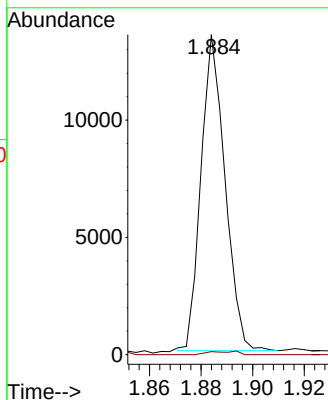
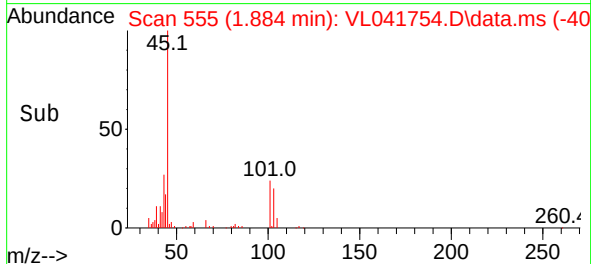
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



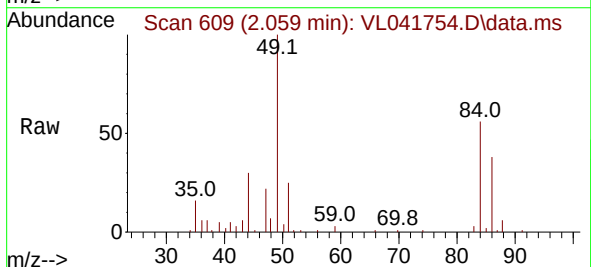
Tgt Ion: 45 Resp: 8703
Ion Ratio Lower Upper
45 100
58 41.5 33.3 49.9

Manual Integrations
APPROVED

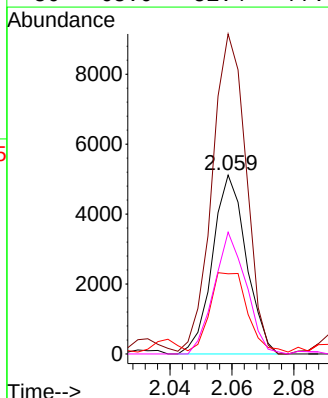
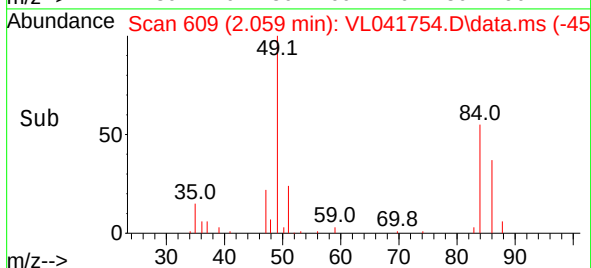
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

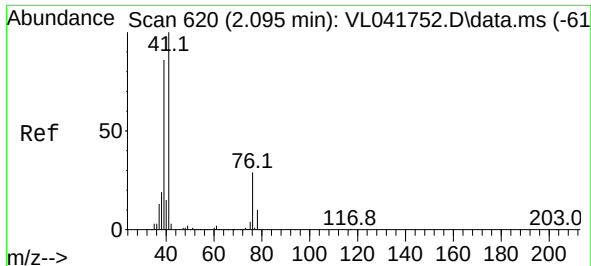


#20
Methylene Chloride
Concen: 1.057 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



Tgt Ion: 84 Resp: 3868
Ion Ratio Lower Upper
84 100
49 178.8 132.6 198.8
51 41.9 37.6 56.4
86 68.0 51.4 77.0





#21

Allyl Chloride

Concen: 1.067 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

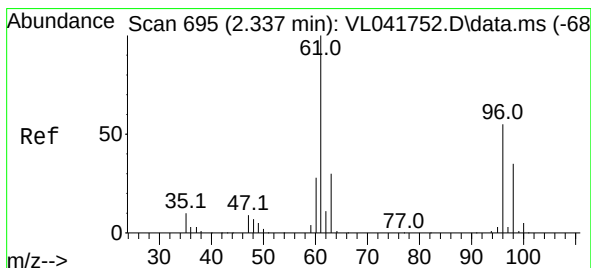
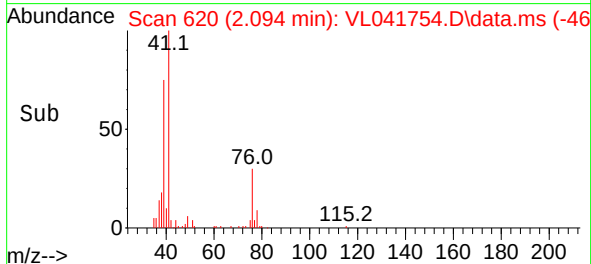
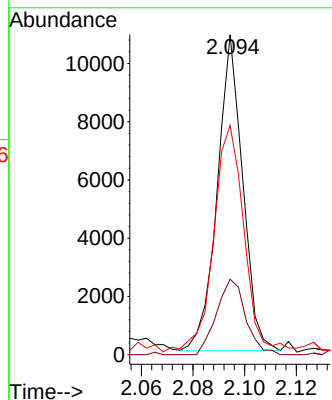
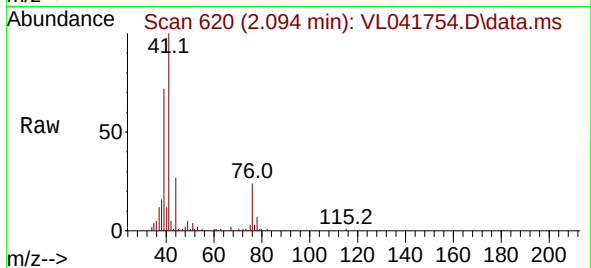
VSTDICC001

Tgt Ion:	41	Resp:	742
Ion Ratio	Lower	Upper	
41	100		
76	27.2	22.3	33.5
39	84.3	69.2	103.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#22

trans-1,2-Dichloroethene

Concen: 1.011 ppbv

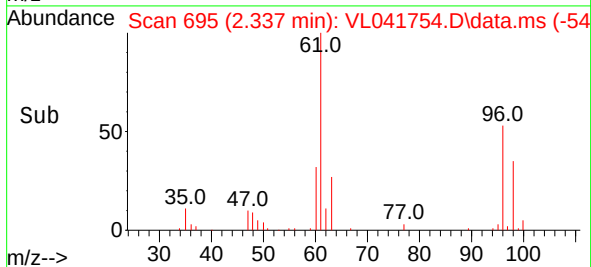
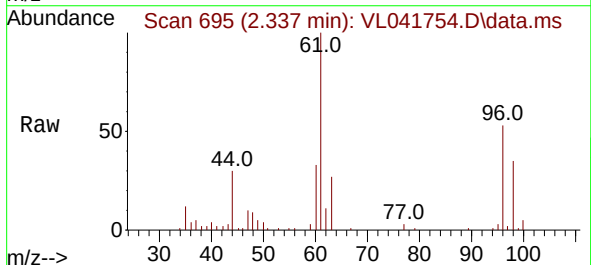
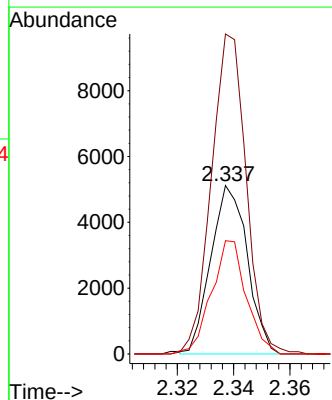
RT: 2.337 min Scan# 695

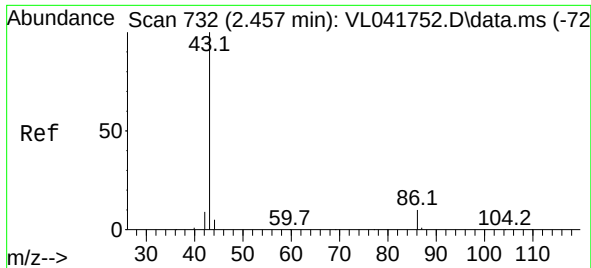
Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:	96	Resp:	4599
Ion Ratio	Lower	Upper	
96	100		
61	188.9	146.3	219.5
98	67.3	50.8	76.2





#23
 Vinyl Acetate
 Concen: 0.959 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

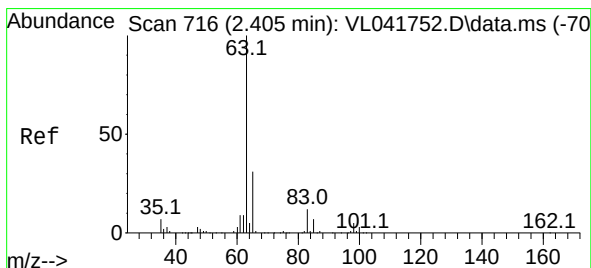
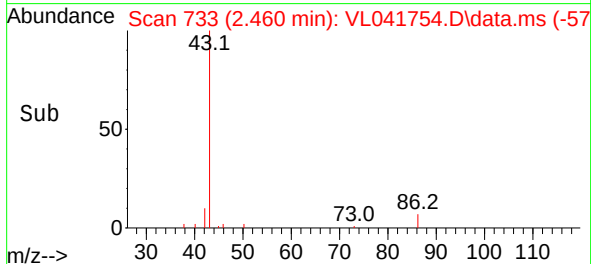
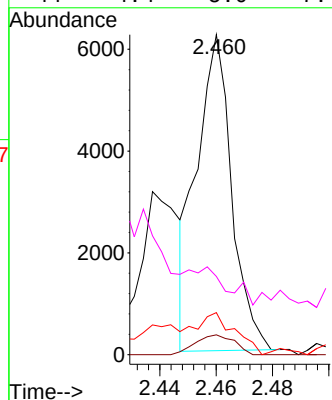
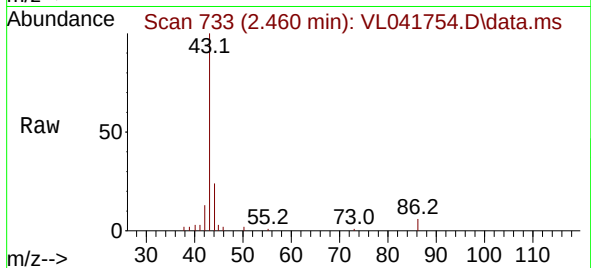
VSTDICC001

Tgt Ion: 43 Resp: 5349
 Ion Ratio Lower Upper
 43 100
 86 6.3 6.6 10.0
 42 11.4 8.2 12.2
 44 4.4 5.0 7.4#

Manual Integrations

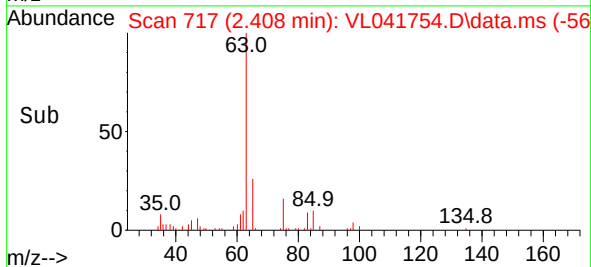
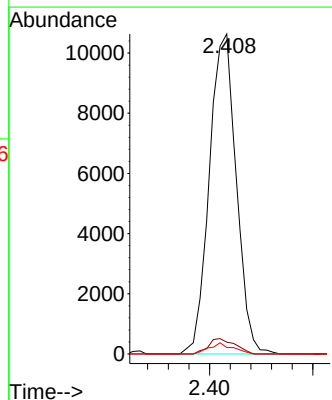
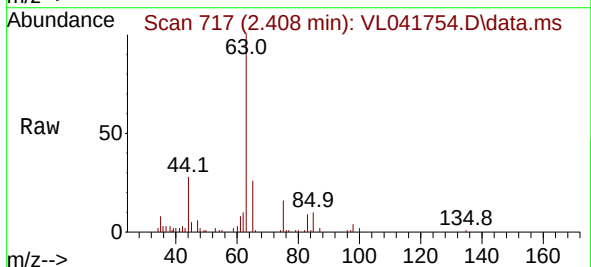
APPROVED

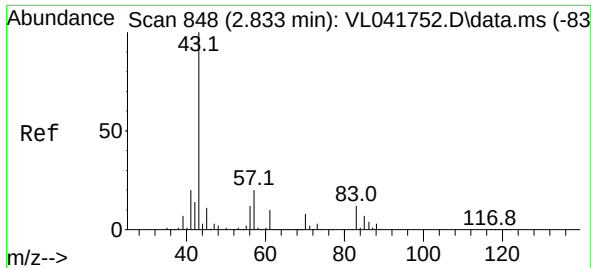
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 63 Resp: 9621
 Ion Ratio Lower Upper
 63 100
 98 3.7 2.3 6.8
 100 2.0 1.4 4.2





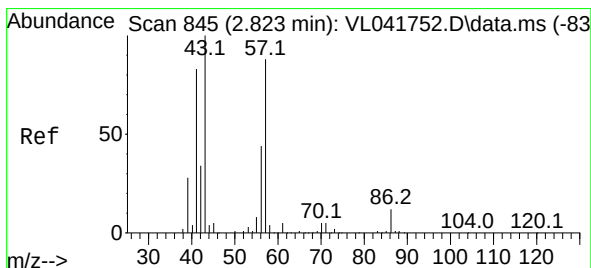
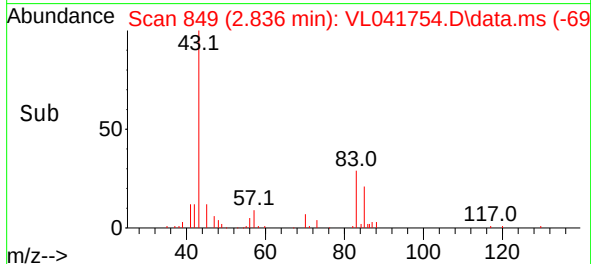
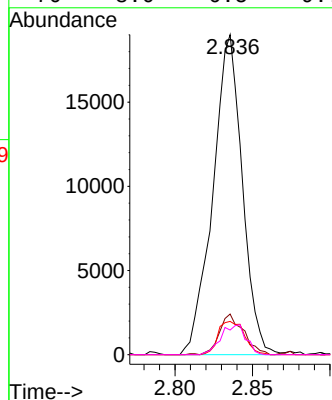
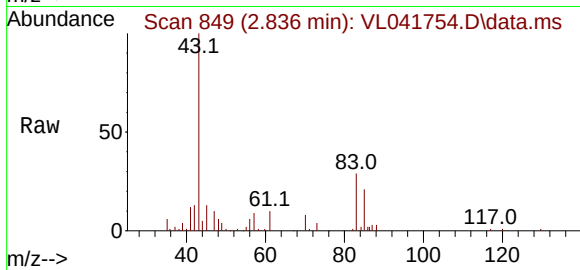
#25
Ethyl Acetate
Concen: 1.049 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43	Resp: 2514
Ion Ratio	Lower Upper
43 100	
45 10.7	8.1 12.1
61 9.3	7.0 10.6
70 8.0	6.5 9.7

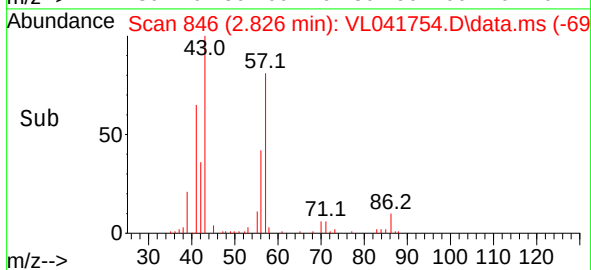
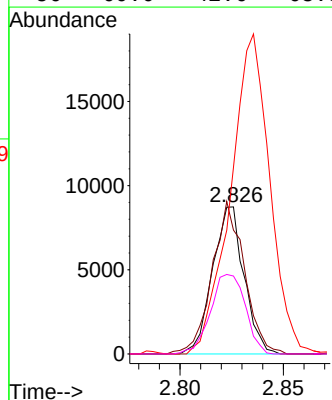
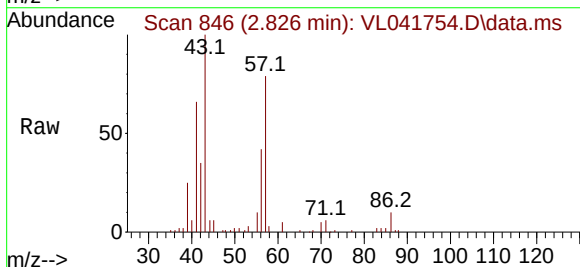
Manual Integrations
APPROVED

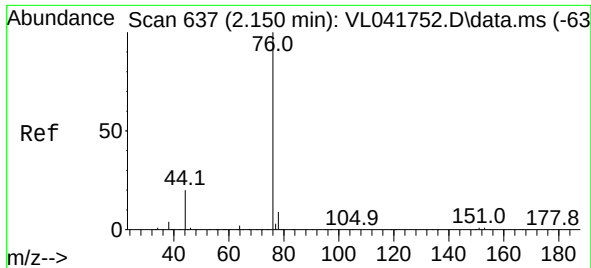
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#26
Hexane
Concen: 1.021 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 57	Resp: 9250
Ion Ratio	Lower Upper
57 100	
41 105.9	79.6 119.4
43 274.5	211.0 316.6
56 60.0	42.6 63.8





#27

Carbon Disulfide

Concen: 0.999 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

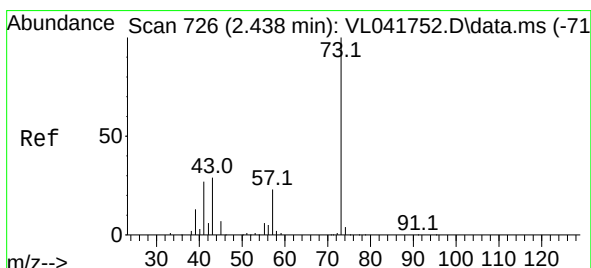
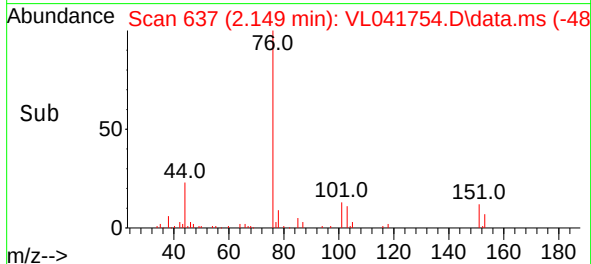
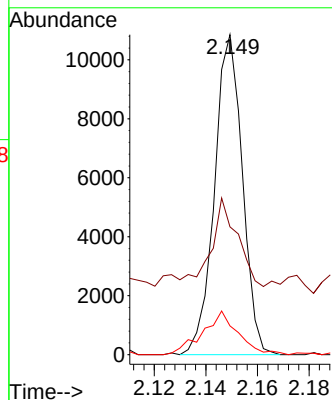
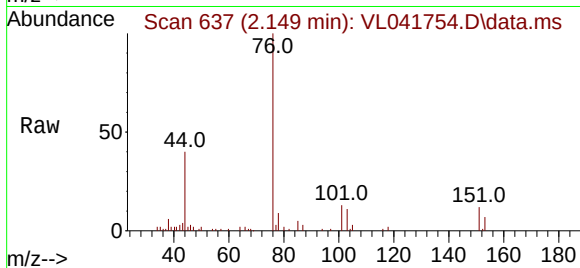
Tgt Ion: 76 Resp: 815

Ion	Ratio	Lower	Upper
76	100		
44	79.9	17.6	26.4
78	17.6	10.2	15.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#28

Methyl tert-Butyl Ether

Concen: 1.162 ppbv

RT: 2.441 min Scan# 727

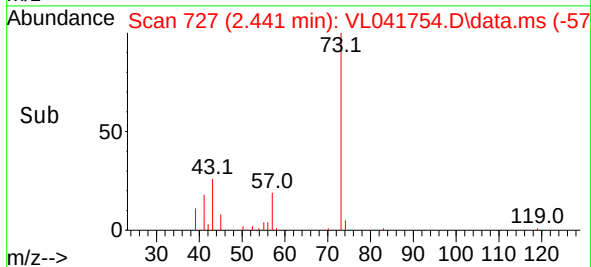
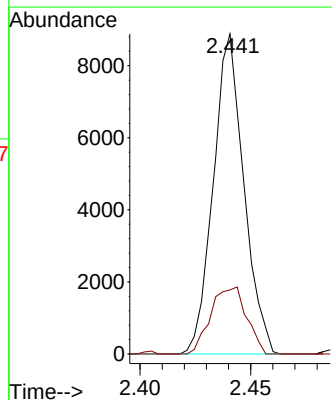
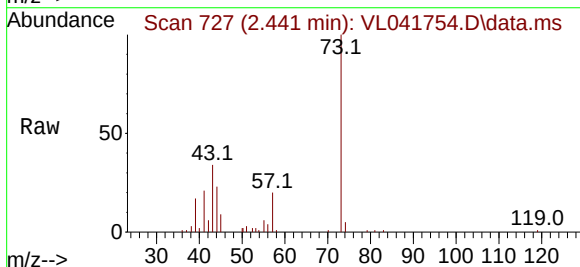
Delta R.T. 0.003 min

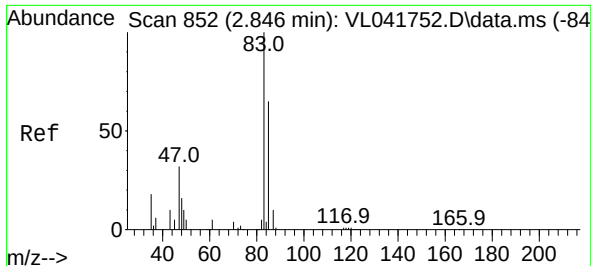
Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 73 Resp: 8539

Ion	Ratio	Lower	Upper
73	100		
57	24.7	17.6	26.4





#29

Chloroform

Concen: 1.042 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 14384

Ion Ratio Lower Upper

83 100

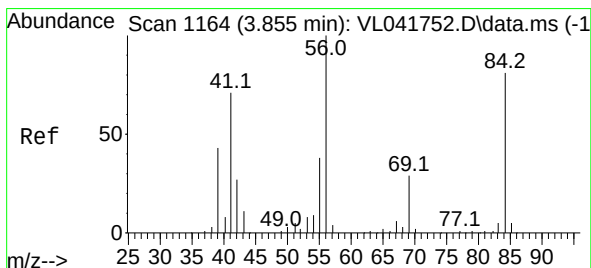
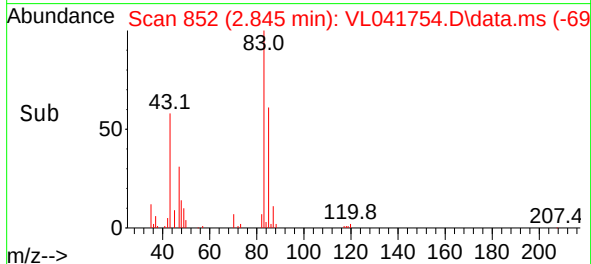
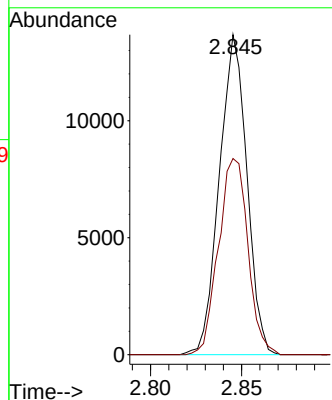
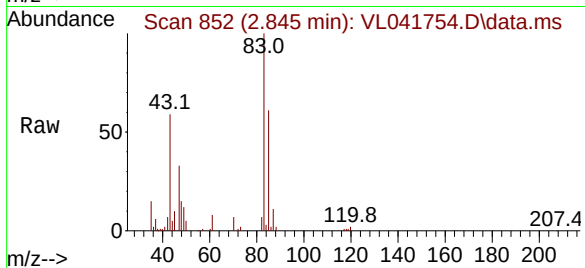
85 61.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 1.015 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

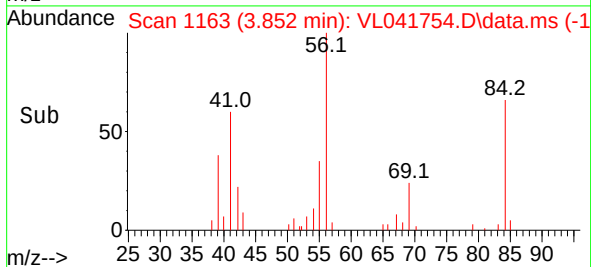
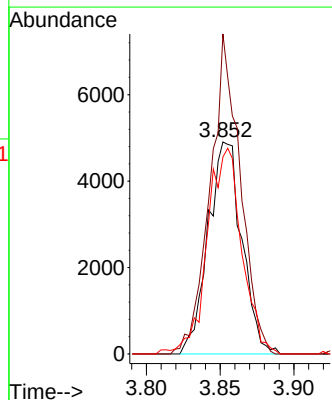
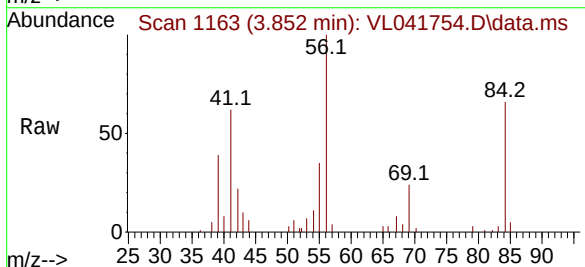
Tgt Ion: 84 Resp: 7824

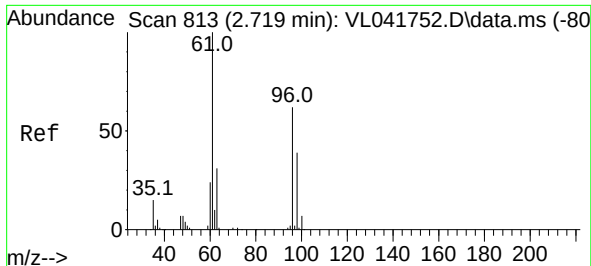
Ion Ratio Lower Upper

84 100

56 134.4 102.3 153.5

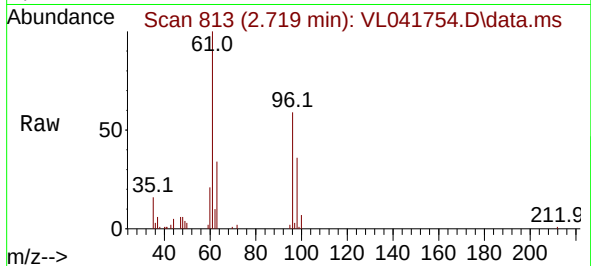
41 99.6 74.0 111.0





#31
 cis-1,2-Dichloroethene
 Concen: 1.070 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

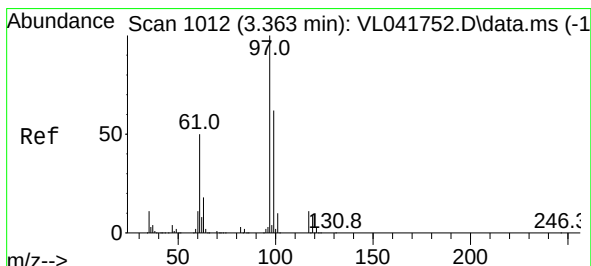
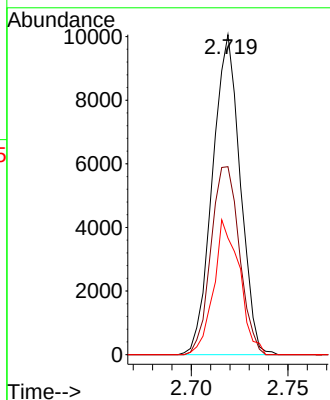
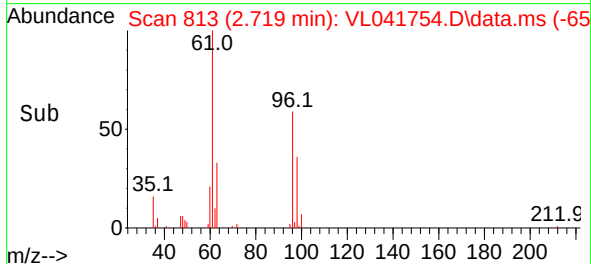
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



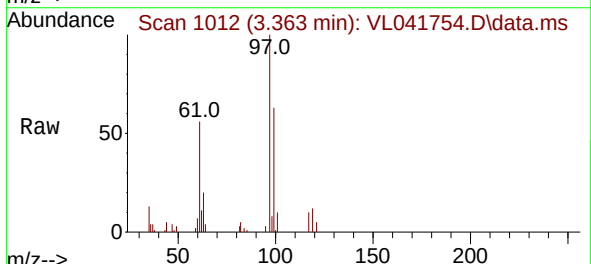
Tgt Ion: 61 Resp: 1001
 Ion Ratio Lower Upper
 61 100
 96 58.7 49.7 74.5
 98 36.5 30.8 46.2

Manual Integrations
 APPROVED

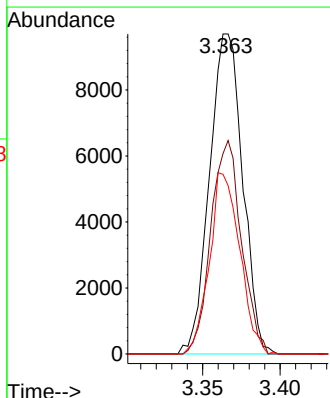
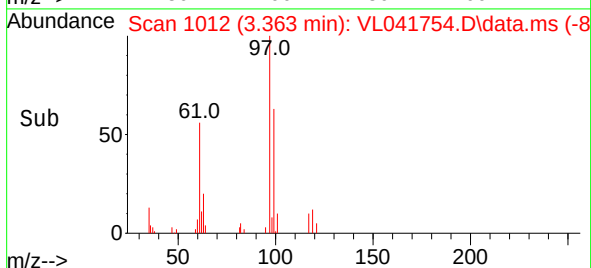
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

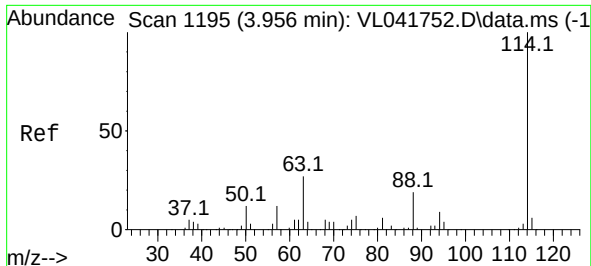


#32
 1,1,1-Trichloroethane
 Concen: 1.049 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34



Tgt Ion: 97 Resp: 14415
 Ion Ratio Lower Upper
 97 100
 99 61.7 51.0 76.4
 61 52.0 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

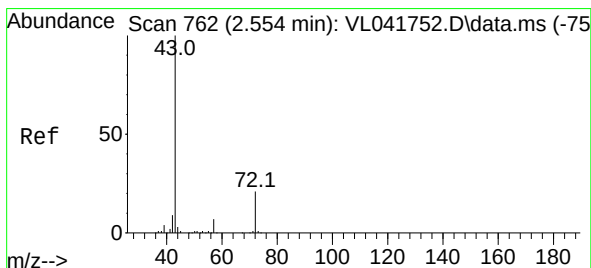
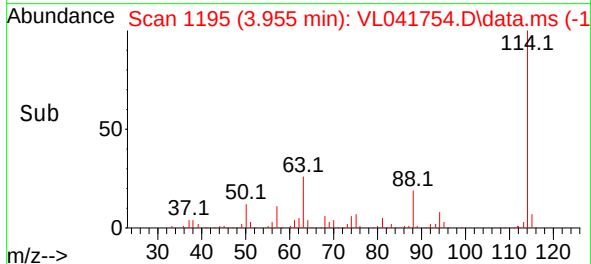
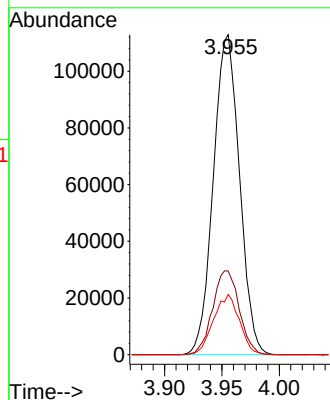
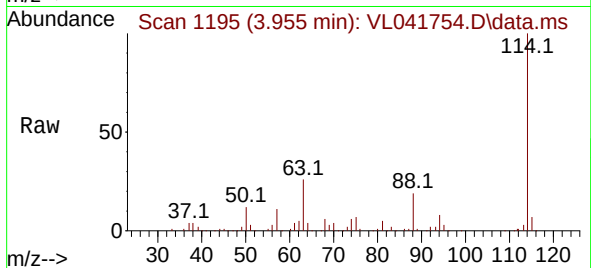
VSTDICC001

Tgt Ion:114 Resp: 178920
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.8 32.8
 88 18.6 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#34

2-Butanone

Concen: 1.019 ppbv

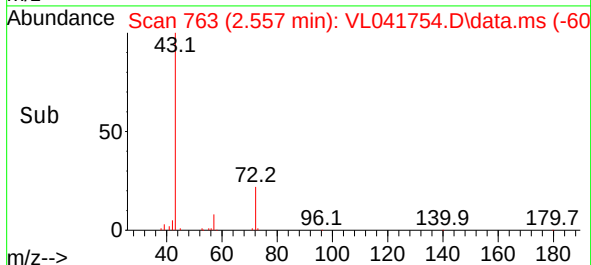
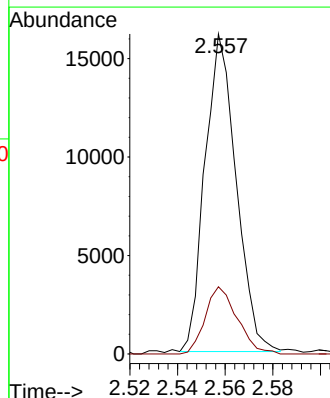
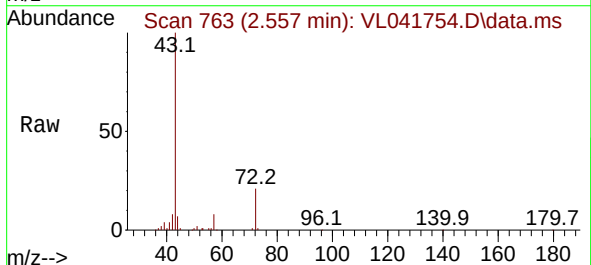
RT: 2.557 min Scan# 763

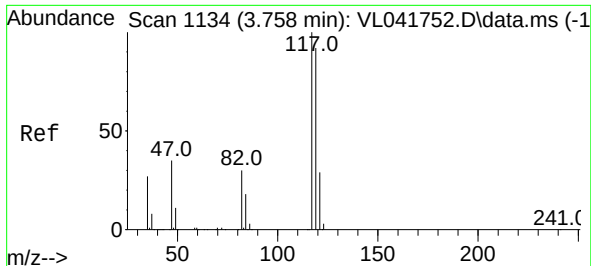
Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

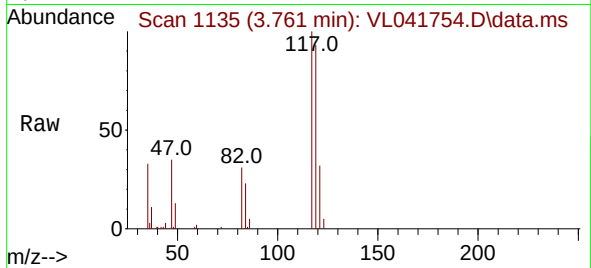
Tgt Ion: 43 Resp: 14673
 Ion Ratio Lower Upper
 43 100
 72 21.7 16.8 25.2





#35
Carbon Tetrachloride
Concen: 1.008 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

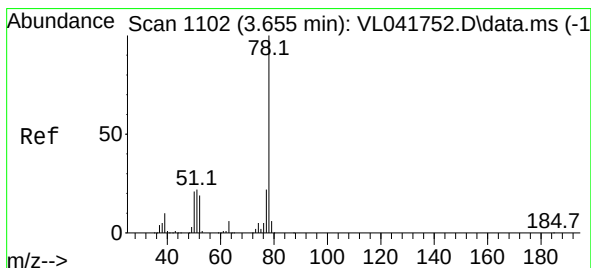
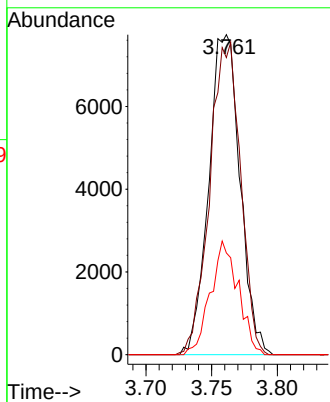
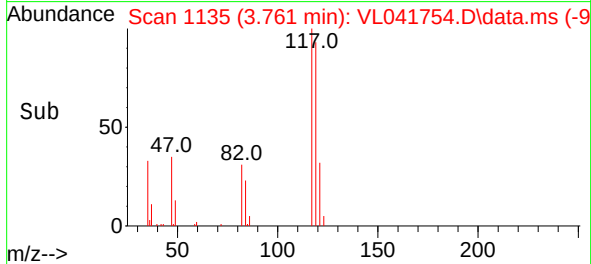
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 117 Resp: 12800
Ion Ratio Lower Upper
117 100
119 92.9 73.7 110.5
121 31.8 23.0 34.4

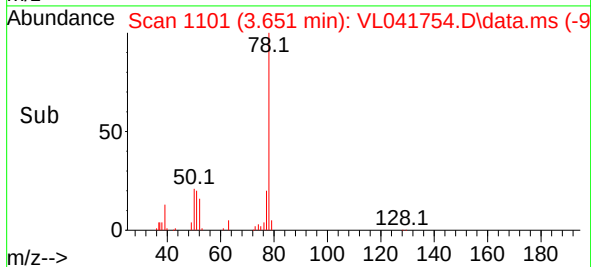
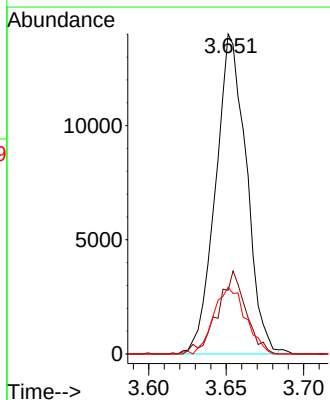
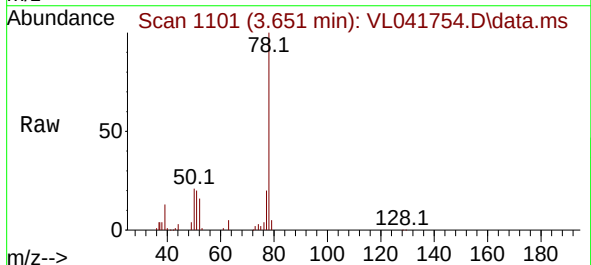
Manual Integrations
APPROVED

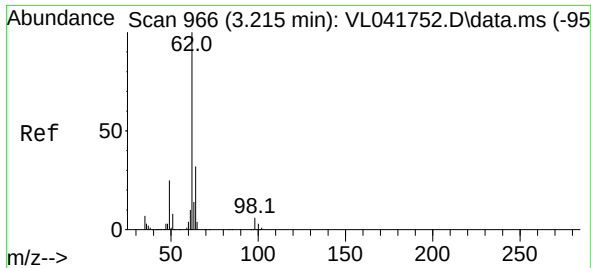
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#36
Benzene
Concen: 1.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.004 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 78 Resp: 19331
Ion Ratio Lower Upper
78 100
77 19.9 17.8 26.6
50 20.8 17.2 25.8





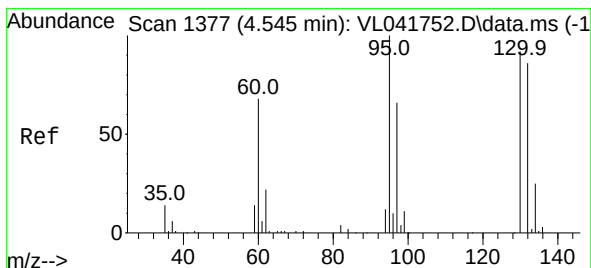
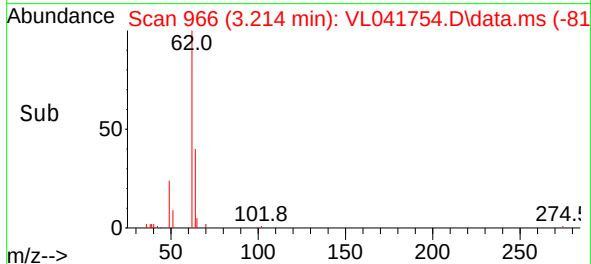
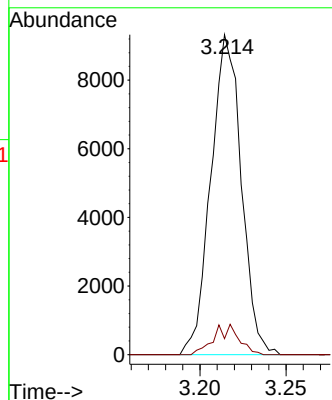
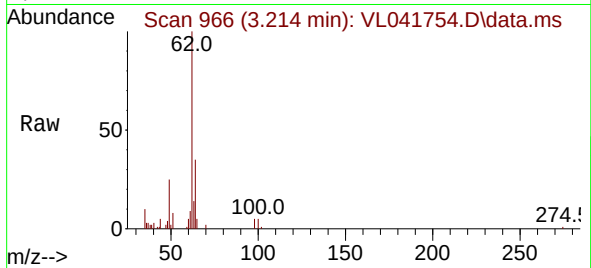
#37
1,2-Dichloroethane
Concen: 0.998 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 11490
Ion Ratio Lower Upper
62 100
98 7.8 4.7 7.1

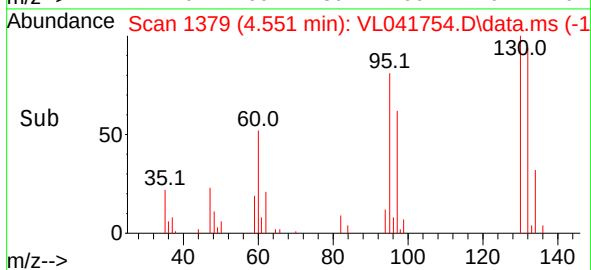
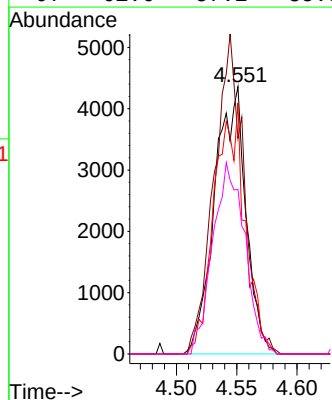
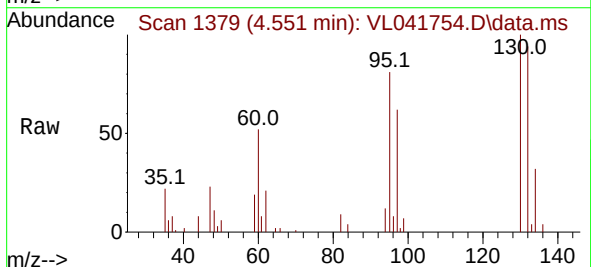
Manual Integrations
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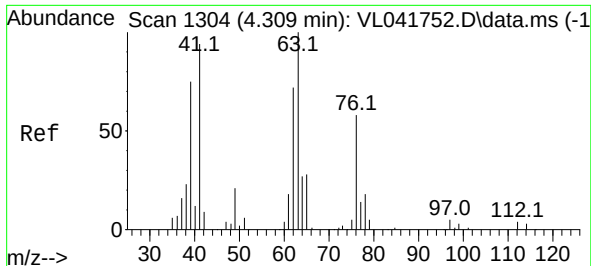
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38
Trichloroethene
Concen: 1.004 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:130 Resp: 7824
Ion Ratio Lower Upper
130 100
95 80.7 87.0 130.6#
132 93.9 75.0 112.6
97 61.6 57.2 85.8





#39

1,2-Dichloropropane

Concen: 1.056 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

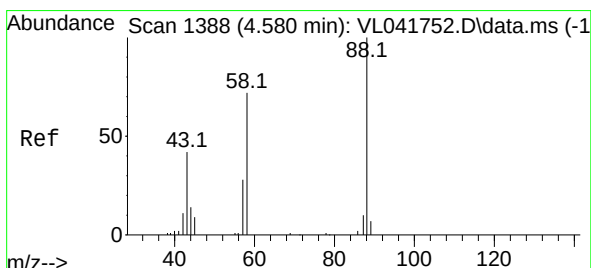
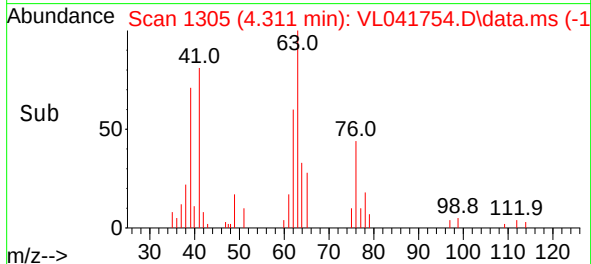
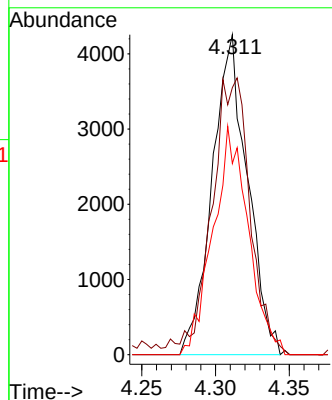
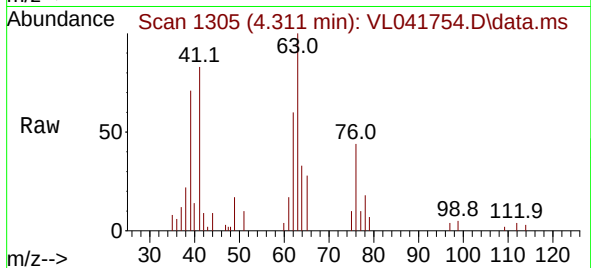
VSTDIC001

Tgt Ion: 63	Resp: 7068
Ion Ratio	Lower Upper
63	100
41	80.8 75.3 112.9
62	59.8 57.3 85.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#40

1,4-Dioxane

Concen: 0.991 ppbv

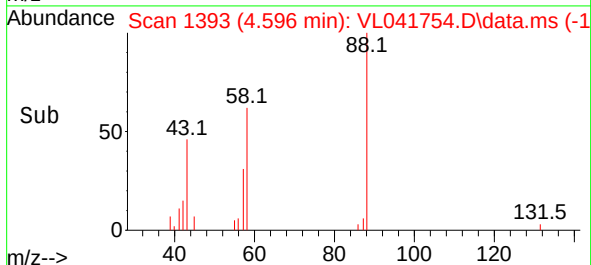
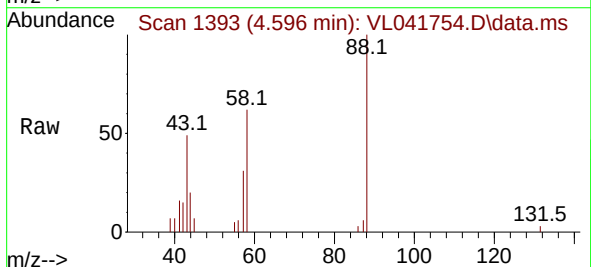
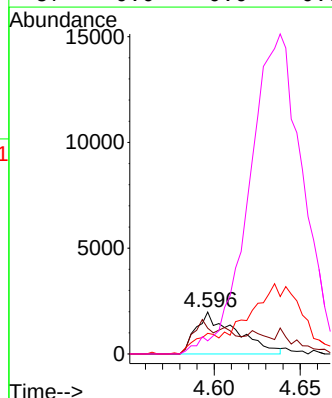
RT: 4.596 min Scan# 1393

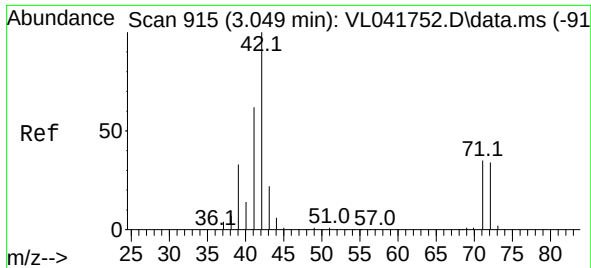
Delta R.T. 0.016 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 88	Resp: 3241
Ion Ratio	Lower Upper
88	100
58	127.2 61.0 91.6#
43	0.0 29.4 44.0#
57	0.0 0.0 0.0





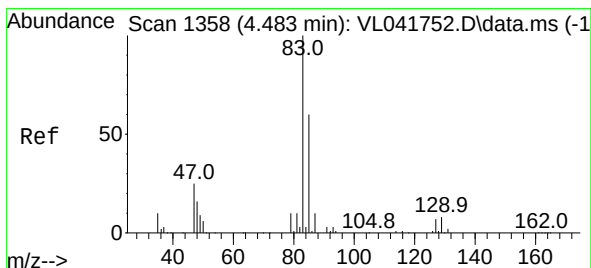
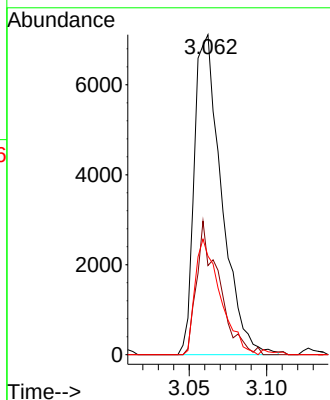
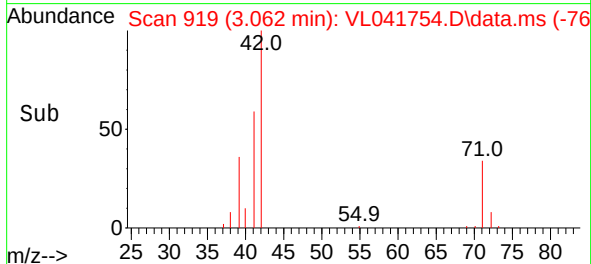
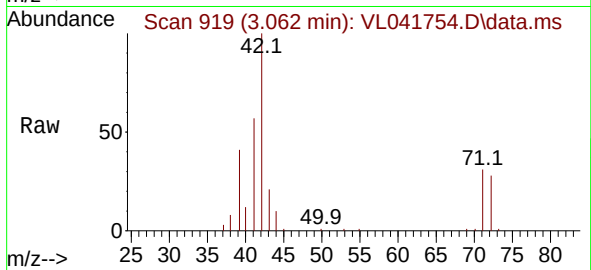
#41
Tetrahydrofuran
Concen: 1.082 ppbv
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:	42	Resp:	872
Ion Ratio	Lower	Upper	
42	100		
72	34.4	29.1	43.7
71	34.0	28.4	42.6

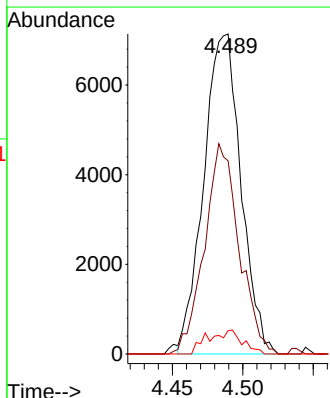
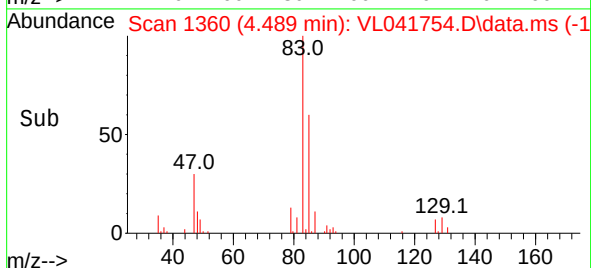
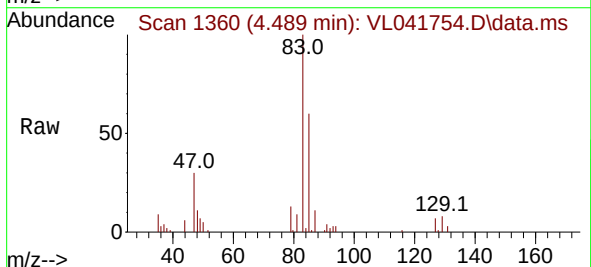
Manual Integrations
APPROVED

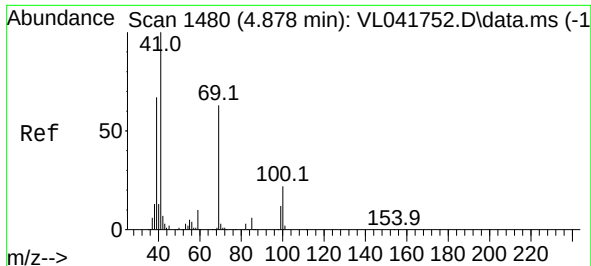
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#42
Bromodichloromethane
Concen: 0.993 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:	83	Resp:	13154
Ion Ratio	Lower	Upper	
83	100		
85	60.4	48.0	72.0
127	7.2	5.8	8.8





#43

Methyl Methacrylate

Concen: 0.999 ppbv m

RT: 4.875 min Scan# 1480

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

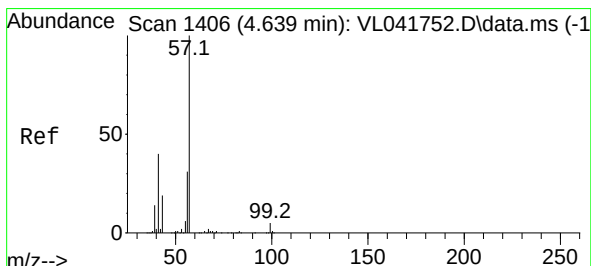
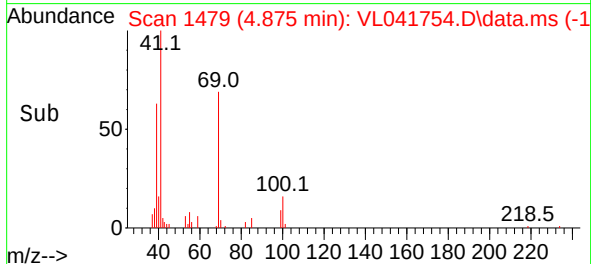
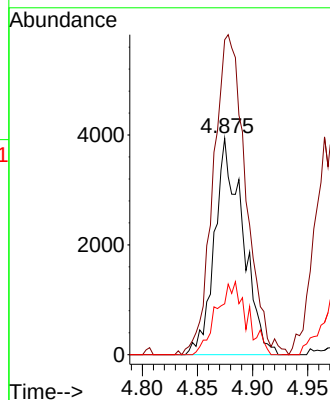
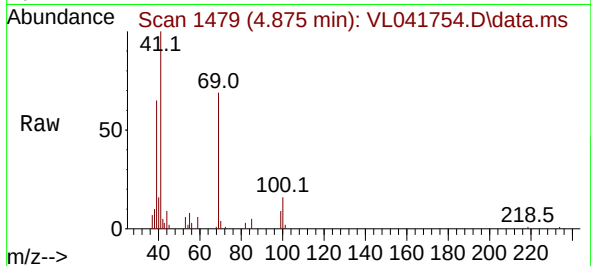
Tgt Ion:	69	Resp:	704
Ion	Ratio	Lower	Upper
69	100		
41	169.4	130.3	195.5
100	0.0	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#44

2,2,4-Trimethylpentane

Concen: 1.024 ppbv

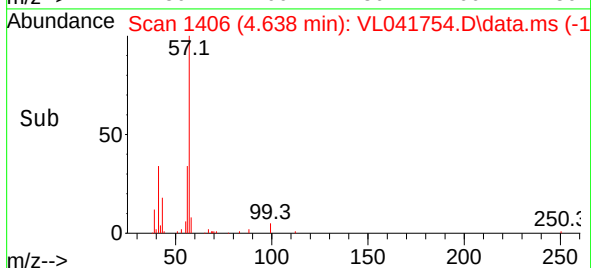
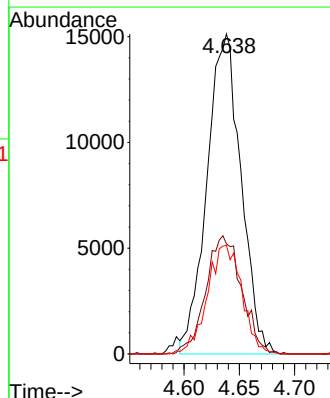
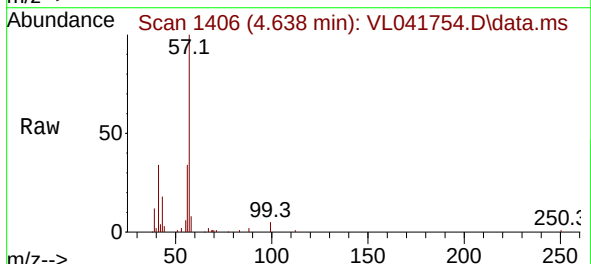
RT: 4.638 min Scan# 1406

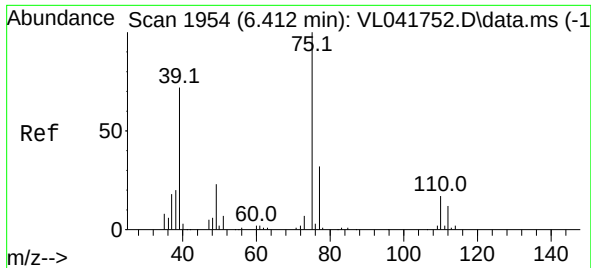
Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:	57	Resp:	32361
Ion	Ratio	Lower	Upper
57	100		
41	38.9	30.7	46.1
56	34.5	25.4	38.0





#45
t-1,3-Dichloropropene
Concen: 0.963 ppbv
RT: 6.412 min Scan# 1954
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

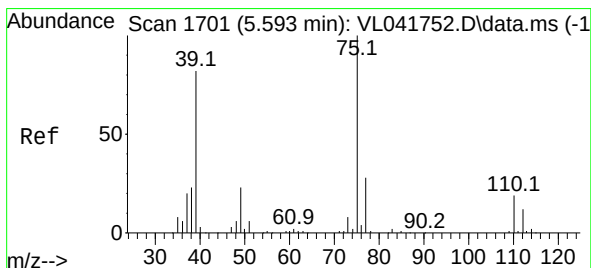
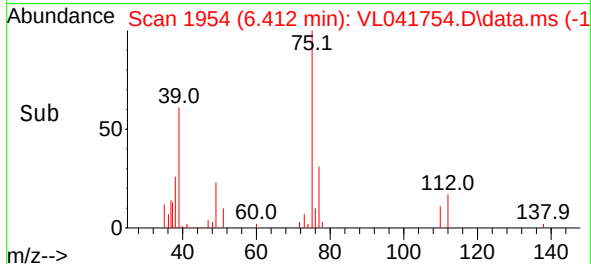
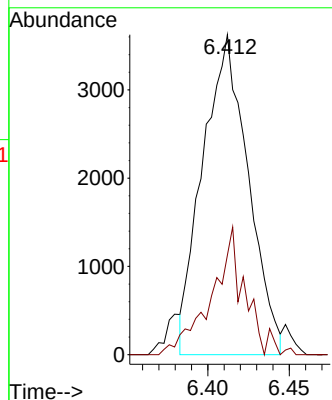
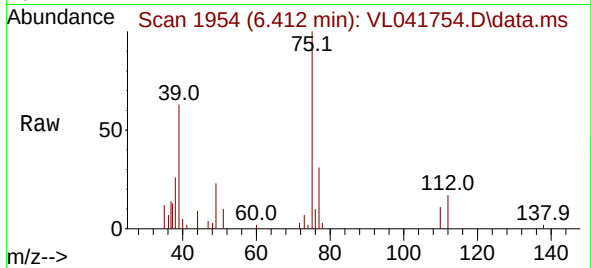
VSTDIC001

Tgt Ion: 75 Resp: 702
Ion Ratio Lower Upper
75 100
77 31.1 25.9 38.9

Manual Integrations

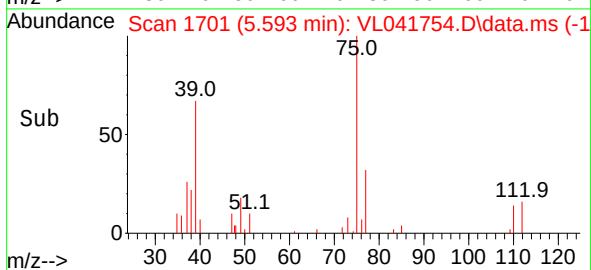
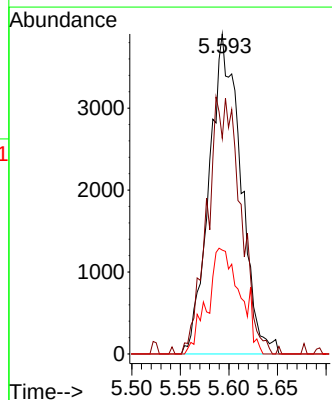
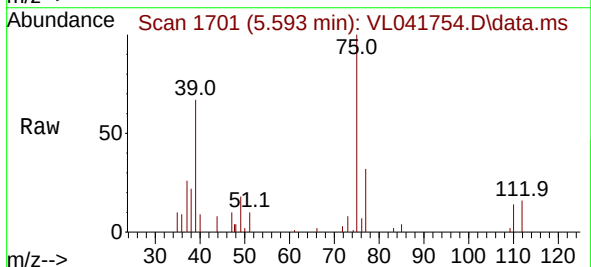
APPROVED

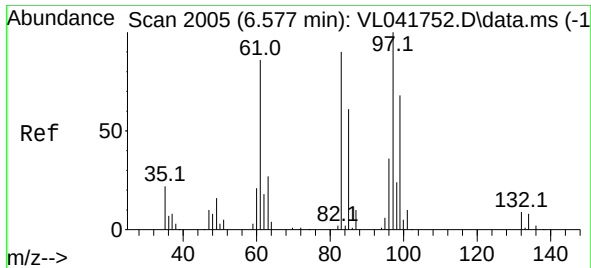
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#46
cis-1,3-Dichloropropene
Concen: 0.952 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

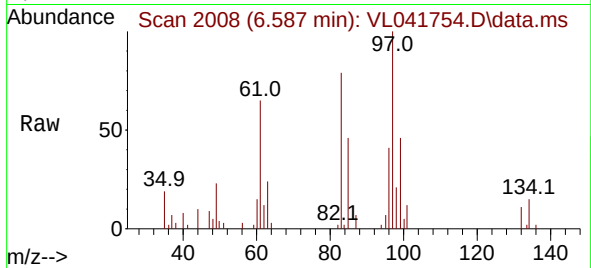
Tgt Ion: 75 Resp: 8815
Ion Ratio Lower Upper
75 100
39 67.4 65.2 97.8
77 32.5 22.0 33.0





#47
1,1,2-Trichloroethane
Concen: 1.028 ppbv m
RT: 6.587 min Scan# 2005
Delta R.T. 0.009 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

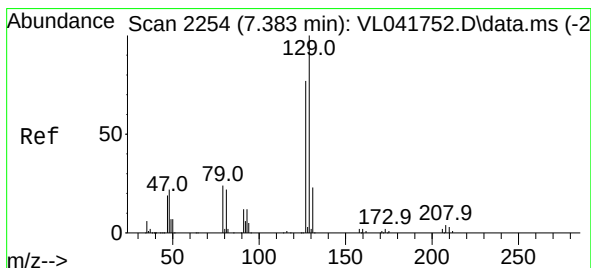
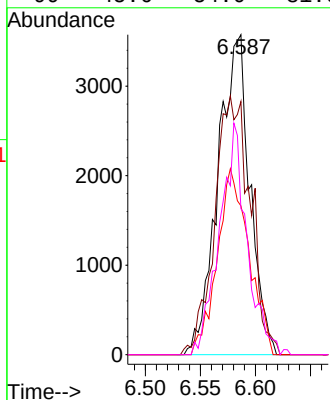
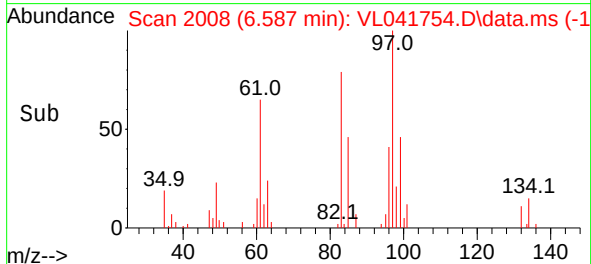
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 97 Resp: 7189
Ion Ratio Lower Upper
97 100
83 79.1 72.3 108.5
85 46.5 48.5 72.7
99 45.6 54.0 81.0#

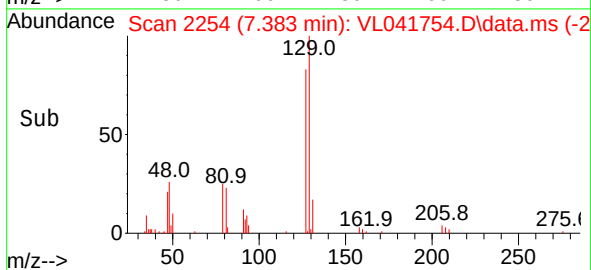
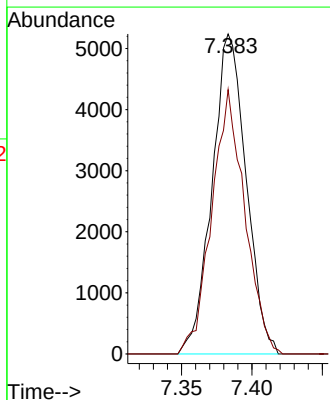
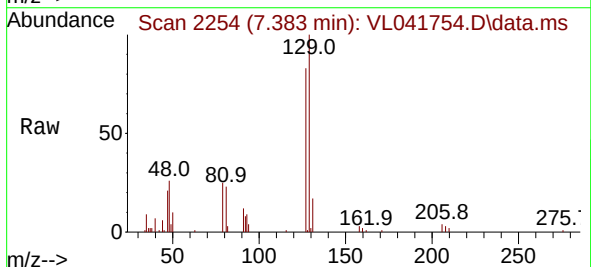
Manual Integrations
APPROVED

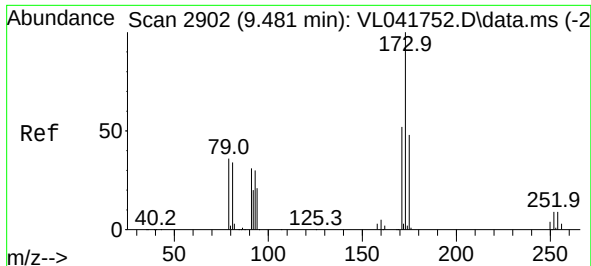
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#48
Dibromochloromethane
Concen: 0.924 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:129 Resp: 8817
Ion Ratio Lower Upper
129 100
127 80.2 38.8 116.3





#49

Bromoform

Concen: 0.905 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. -0.000 min

Lab File: VL041754.D

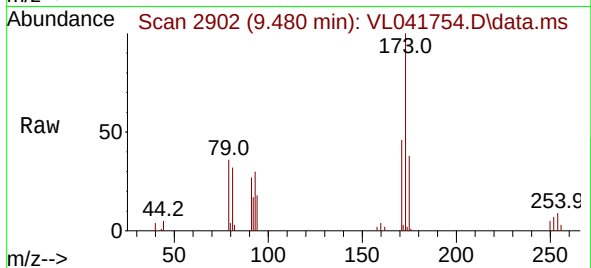
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

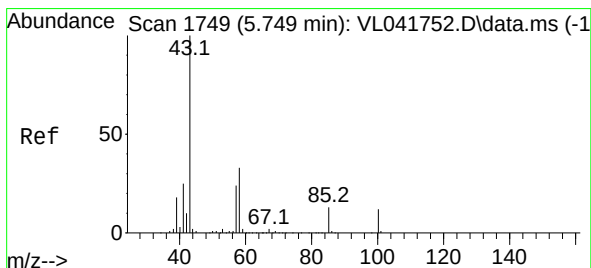
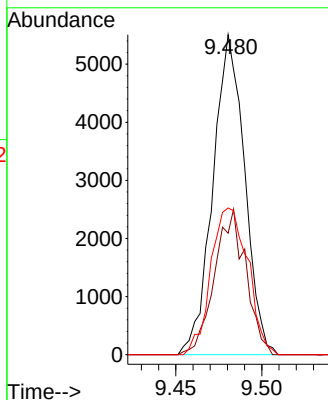
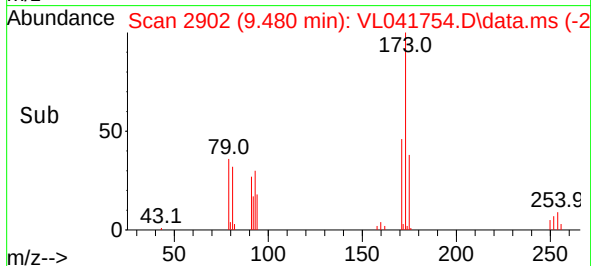


Tgt Ion:	173	Resp:	707
Ion Ratio	Lower	Upper	
173	100		
175	44.7	38.2	57.2
171	53.3	41.1	61.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#50

4-Methyl-2-Pentanone

Concen: 1.031 ppbv

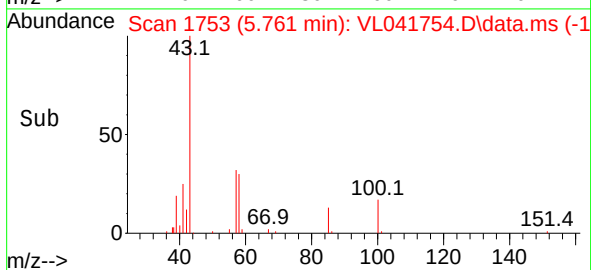
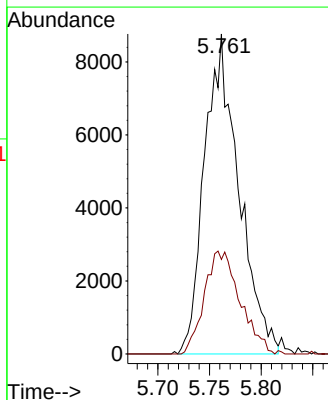
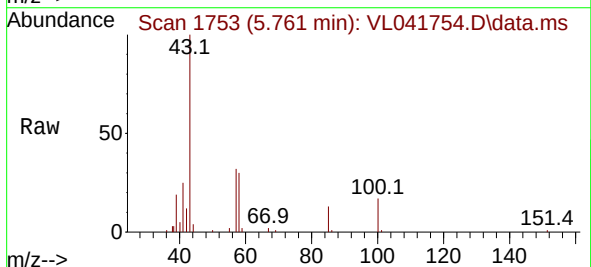
RT: 5.761 min Scan# 1753

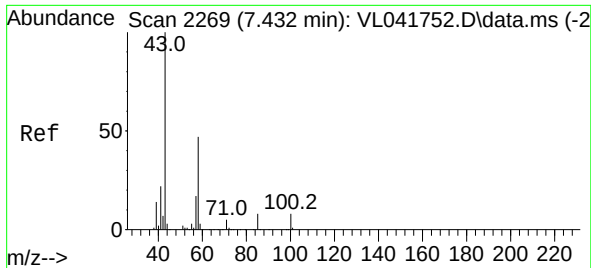
Delta R.T. 0.013 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

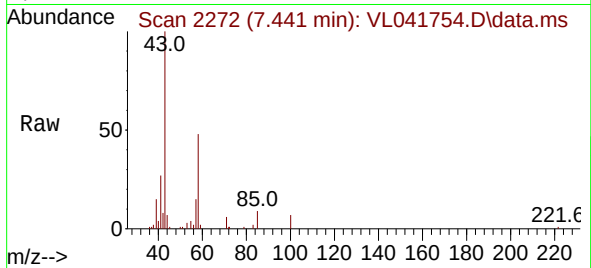
Tgt Ion:	43	Resp:	20212
Ion Ratio	Lower	Upper	
43	100		
58	33.7	26.8	40.2





#51
2-Hexanone
Concen: 1.040 ppbv
RT: 7.441 min Scan# 2151
Delta R.T. 0.009 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

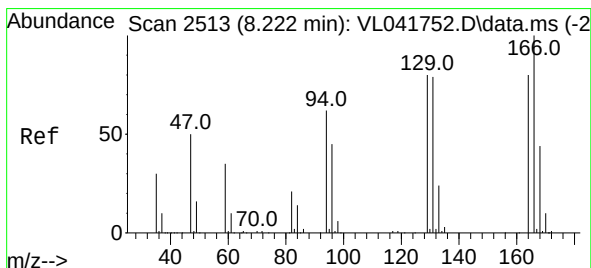
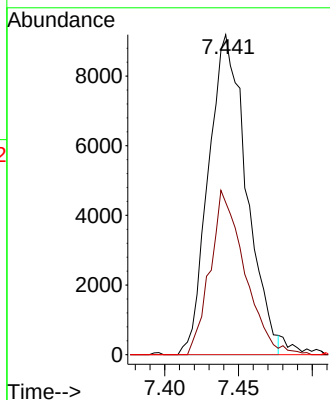
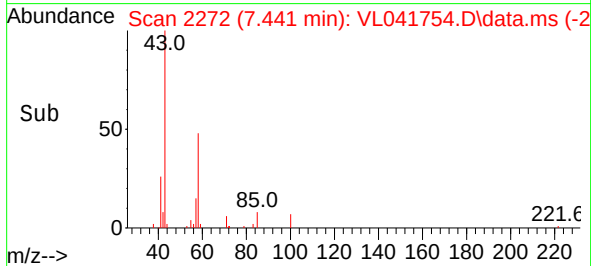
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 16514
Ion Ratio Lower Upper
43 100
58 46.5 36.6 55.0
98 0.2 0.1 0.1

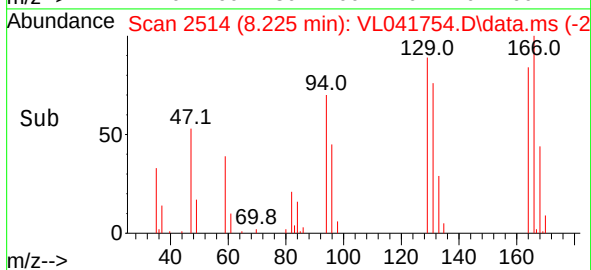
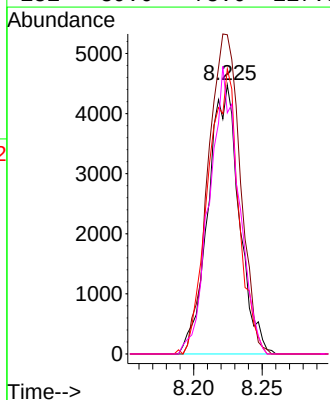
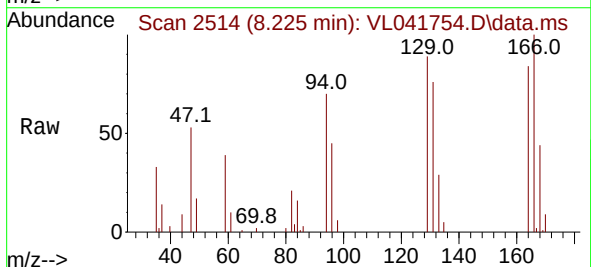
Manual Integrations
APPROVED

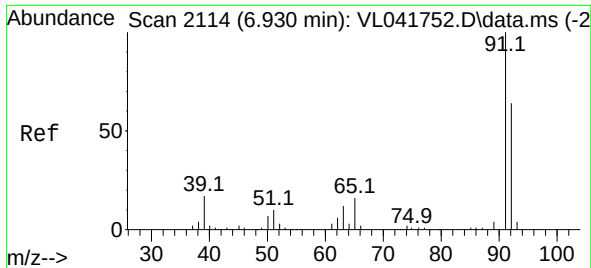
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#52
Tetrachloroethene
Concen: 1.026 ppbv m
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:164 Resp: 7067
Ion Ratio Lower Upper
164 100
166 118.7 99.8 149.6
129 106.0 79.6 119.4
131 89.6 78.6 117.8





#53

Toluene

Concen: 1.029 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 2159

Ion Ratio Lower Upper

91 100

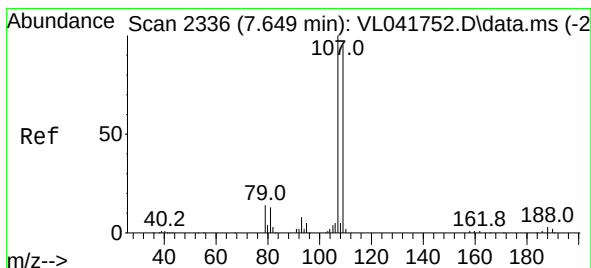
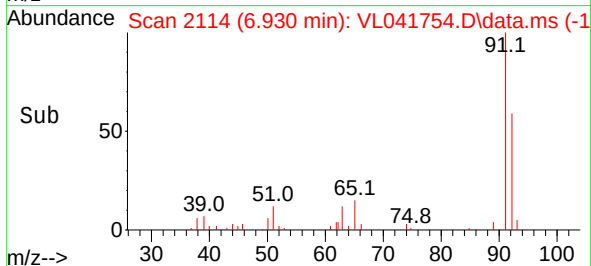
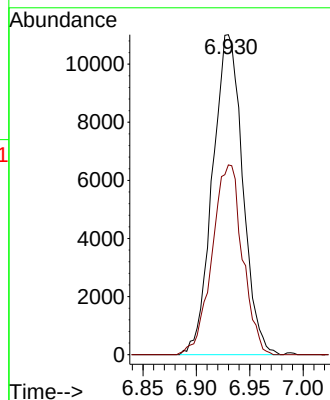
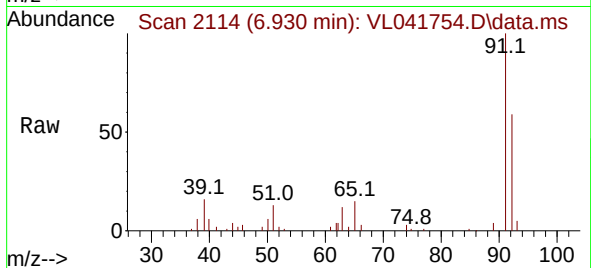
92 60.0 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 1.013 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL041754.D

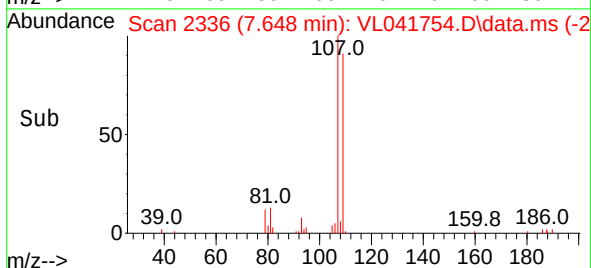
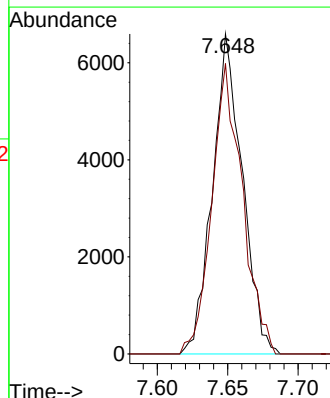
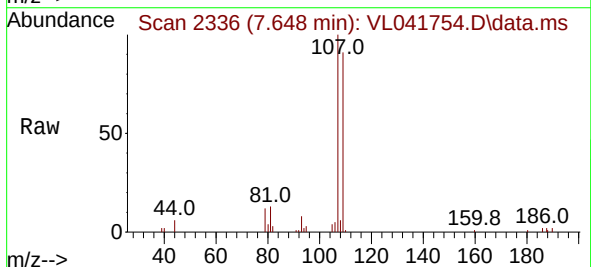
Acq: 16 Dec 2024 14:34

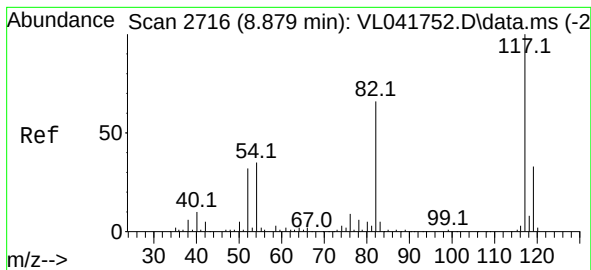
Tgt Ion:107 Resp: 9758

Ion Ratio Lower Upper

107 100

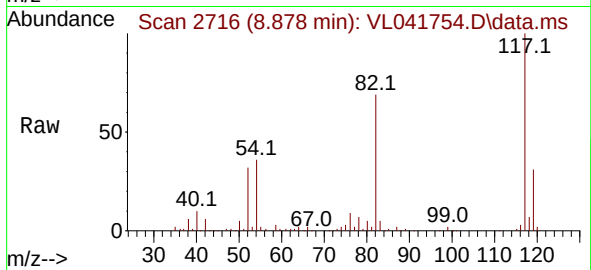
109 90.8 75.9 113.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

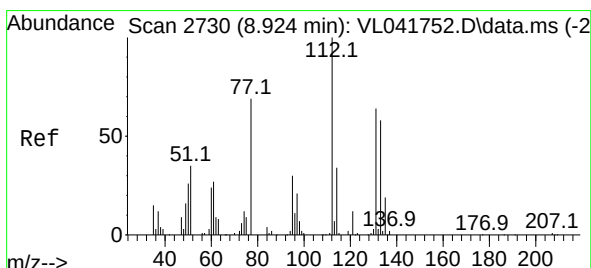
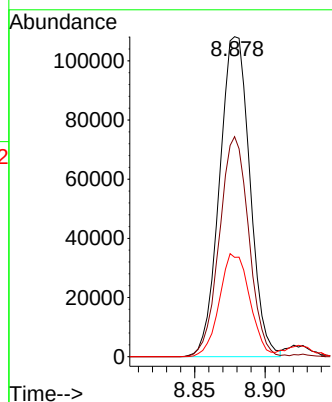
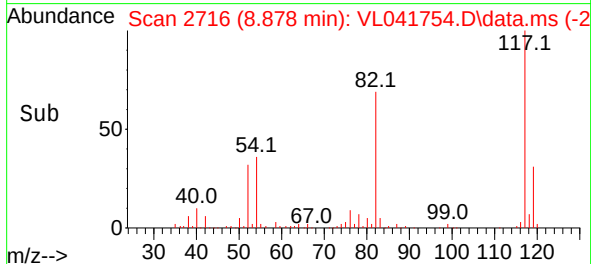
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion:117 Resp: 16226
Ion Ratio Lower Upper
117 100
82 66.9 53.8 80.8
119 32.5 26.7 40.1

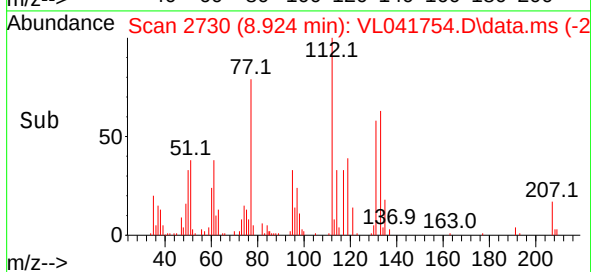
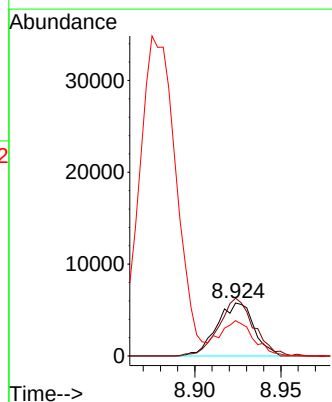
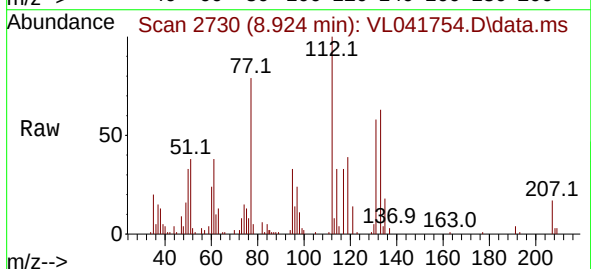
Manual Integrations
APPROVED

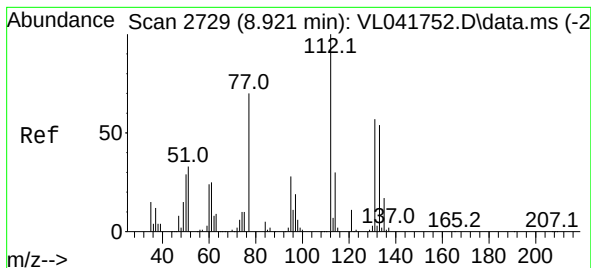
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#56
1,1,1,2-Tetrachloroethane
Concen: 1.005 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:131 Resp: 8643
Ion Ratio Lower Upper
131 100
133 103.1 76.8 115.2
119 55.4 49.0 73.6





#57

Chlorobenzene

Concen: 1.054 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

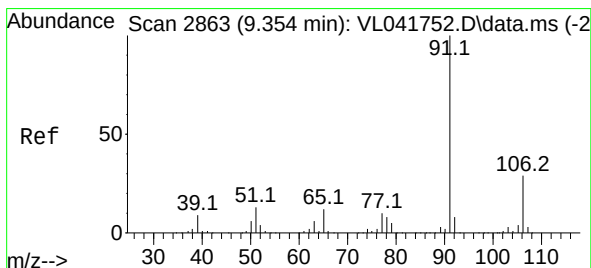
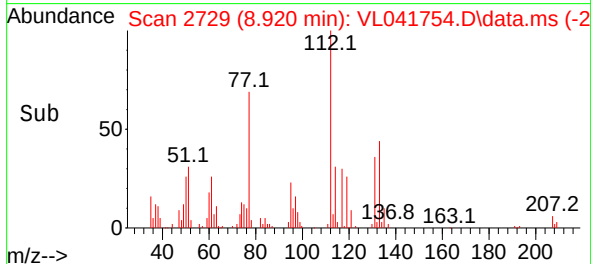
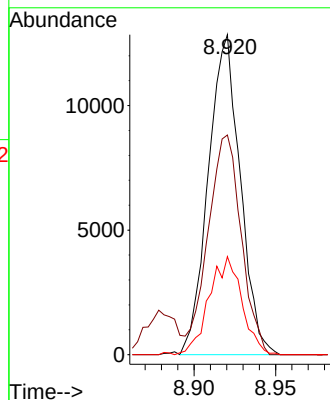
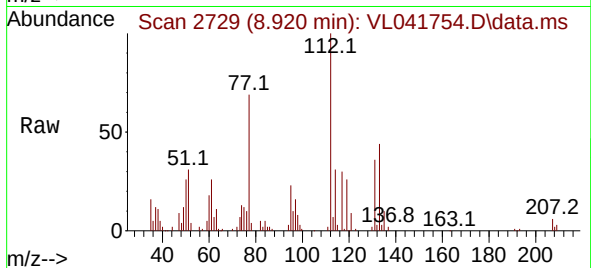
VSTDIC001

Tgt Ion:	112	Resp:	17500
Ion Ratio	Lower	Upper	
112	100		
77	68.6	57.4	86.0
114	30.7	27.4	33.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#58

Ethyl Benzene

Concen: 1.019 ppbv

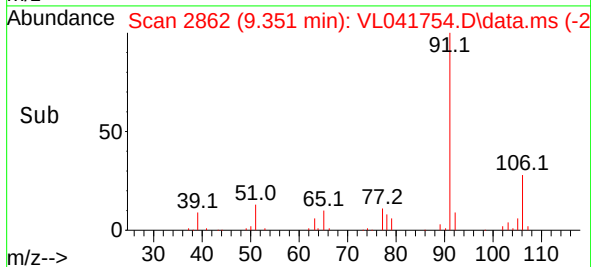
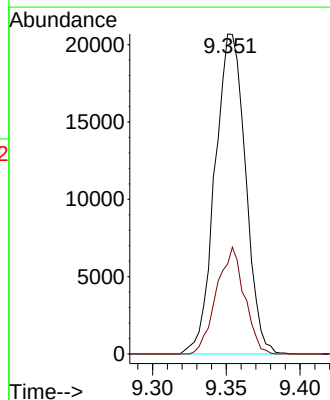
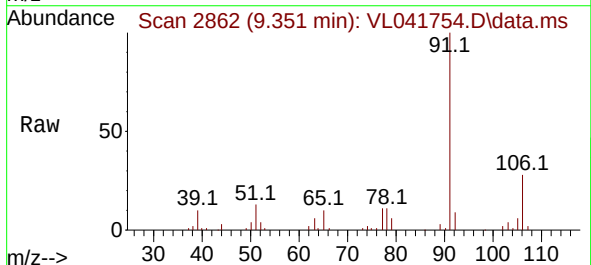
RT: 9.351 min Scan# 2862

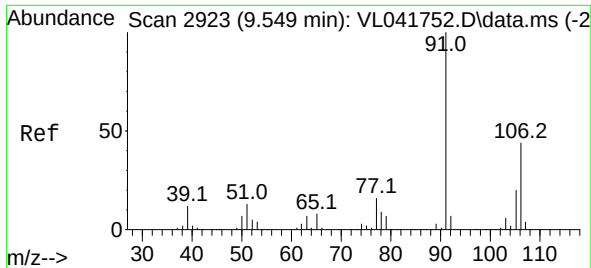
Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:	91	Resp:	29762
Ion Ratio	Lower	Upper	
91	100		
106	28.1	23.5	35.3





#59

m/p-Xylene

Concen: 2.026 ppbv m

RT: 9.529 min Scan# 2923

Delta R.T. -0.020 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 4759

Ion Ratio Lower Upper

91 100

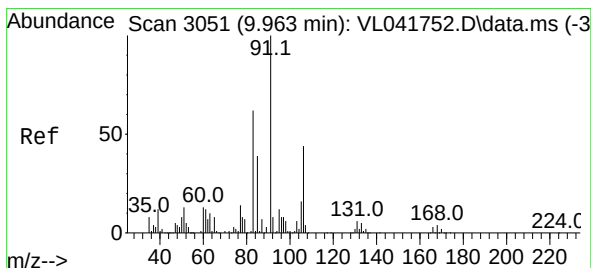
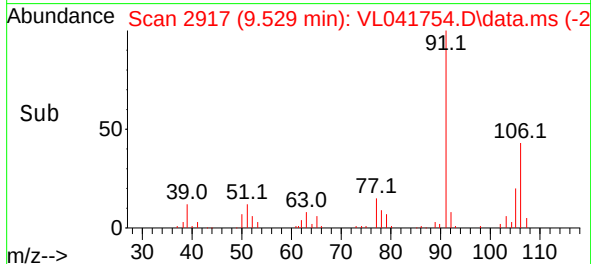
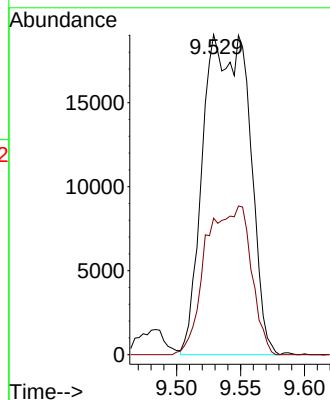
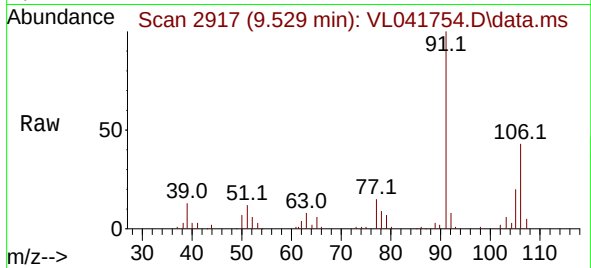
106 45.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#60

o-Xylene

Concen: 1.028 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041754.D

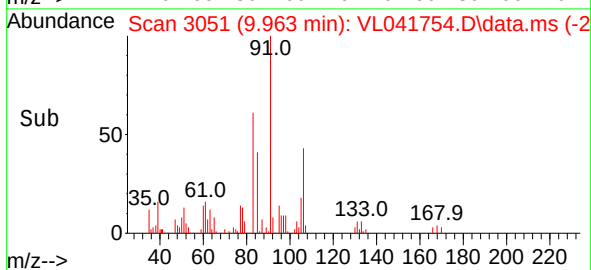
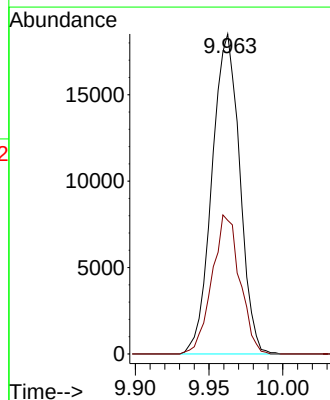
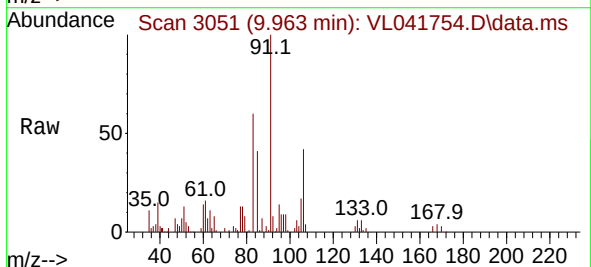
Acq: 16 Dec 2024 14:34

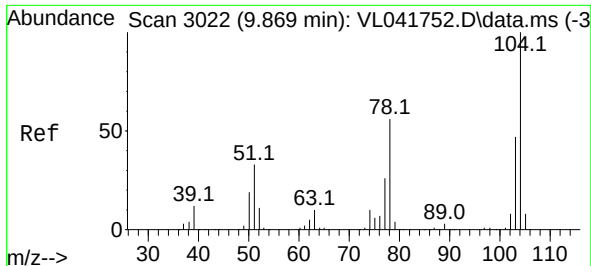
Tgt Ion: 91 Resp: 24210

Ion Ratio Lower Upper

91 100

106 43.6 21.1 63.4





#61
Styrene
Concen: 0.953 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

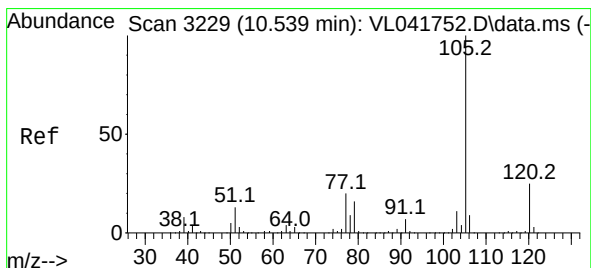
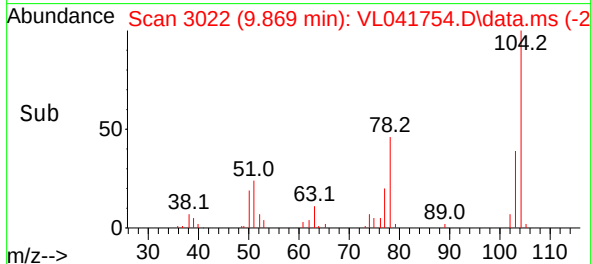
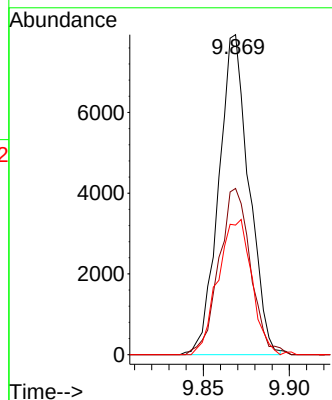
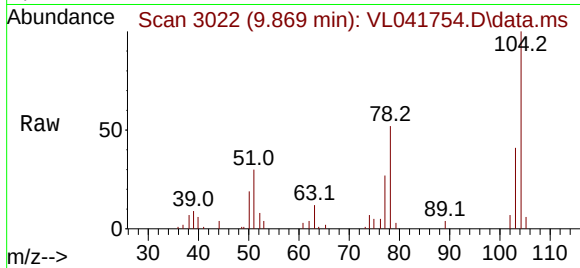
VSTDICC001

Tgt Ion:104 Resp: 970
Ion Ratio Lower Upper
104 100
78 54.3 43.8 65.6
103 47.2 37.8 56.6

Manual Integrations

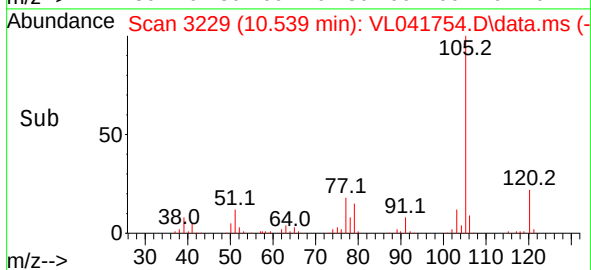
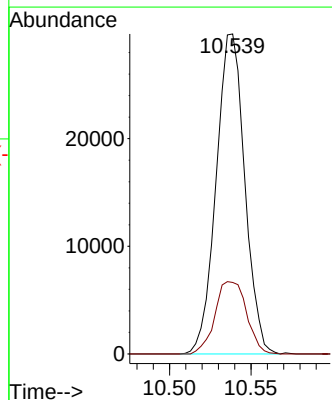
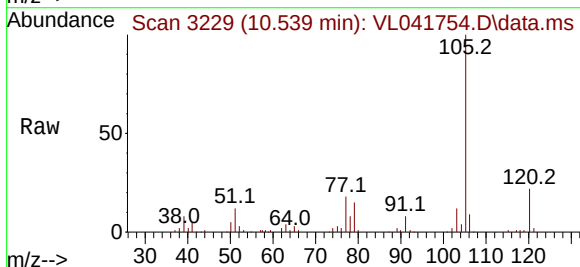
APPROVED

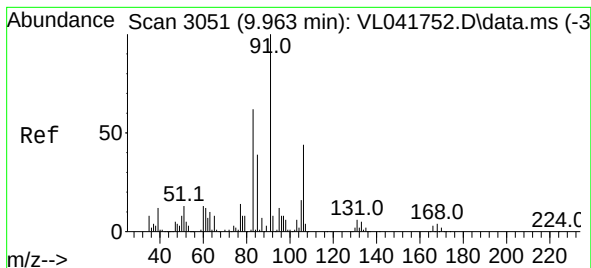
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#62
Isopropylbenzene
Concen: 1.024 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:105 Resp: 36251
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.001 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

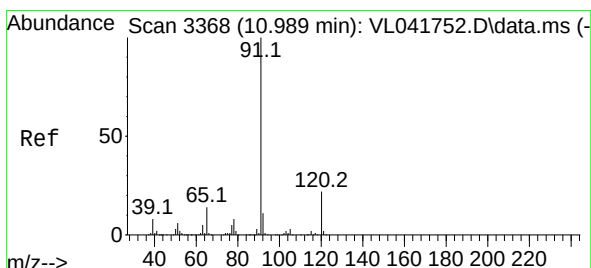
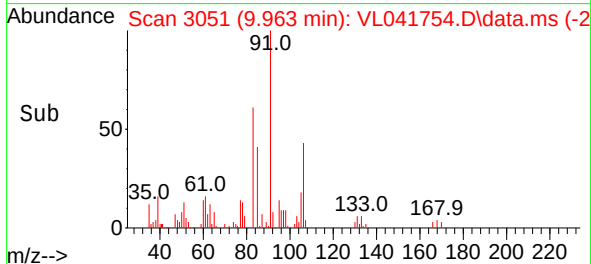
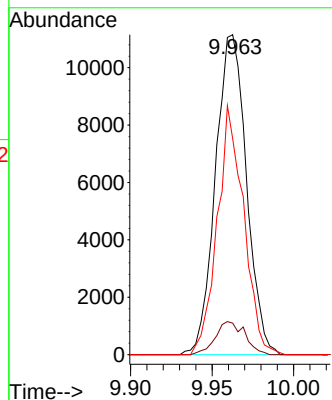
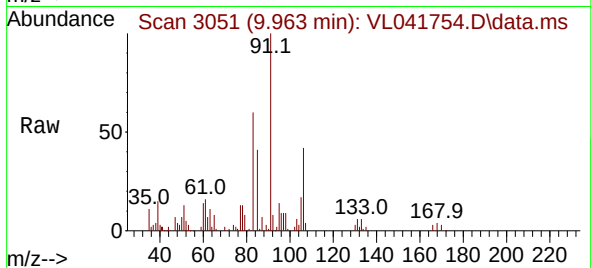
VSTDICC001

Tgt Ion:	83	Resp:	1475
Ion Ratio	Lower	Upper	
83	100		
131	9.8	4.9	14.7
85	66.2	32.0	96.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#64

n-propylbenzene

Concen: 1.054 ppbv

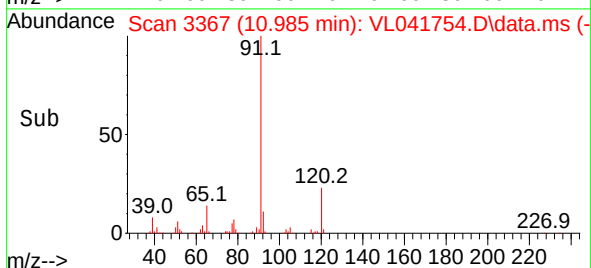
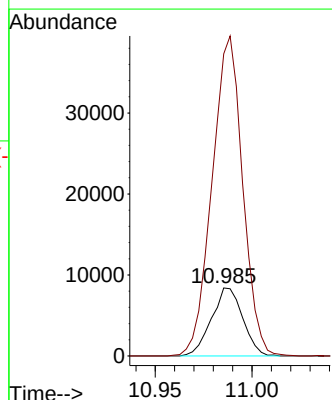
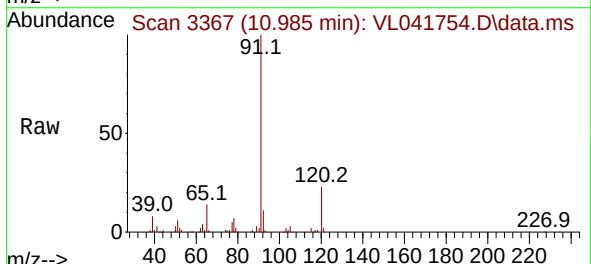
RT: 10.985 min Scan# 3367

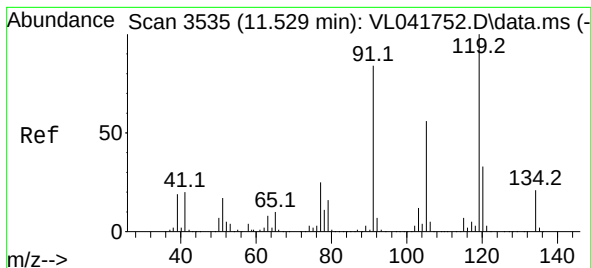
Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:	120	Resp:	9432
Ion Ratio	Lower	Upper	
120	100		
91	461.0	387.3	580.9





#65

tert-Butylbenzene

Concen: 1.030 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

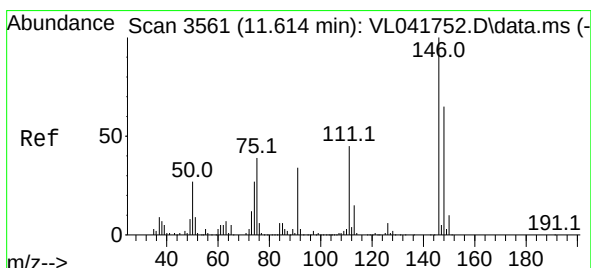
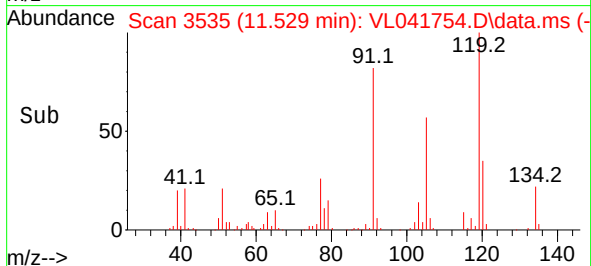
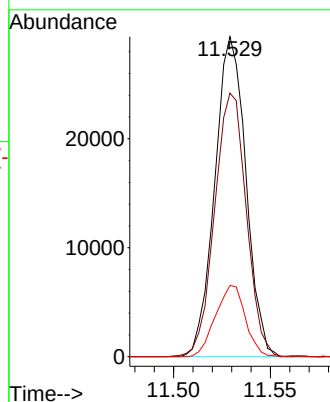
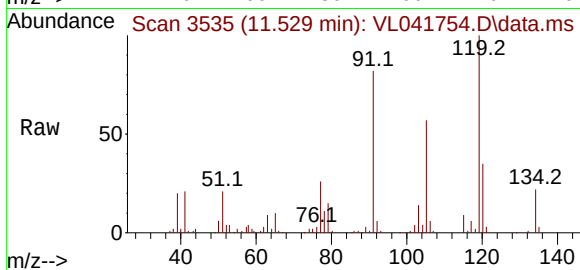
Tgt Ion:119 Resp: 3288

Ion	Ratio	Lower	Upper
119	100		
91	83.8	67.0	100.4
134	21.3	16.5	24.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#66

Benzyl Chloride

Concen: 0.894 ppbv

RT: 11.610 min Scan# 3560

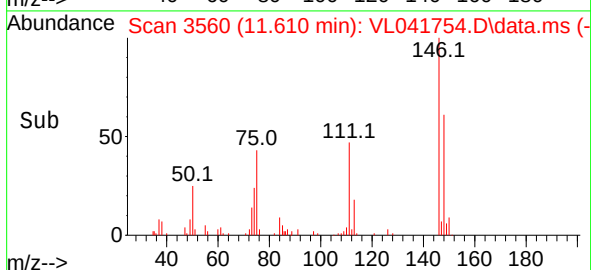
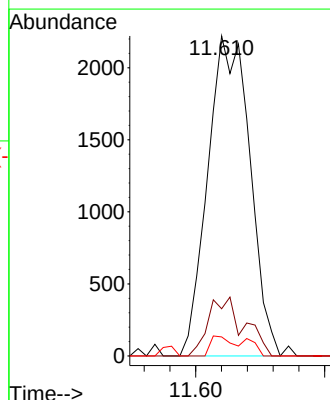
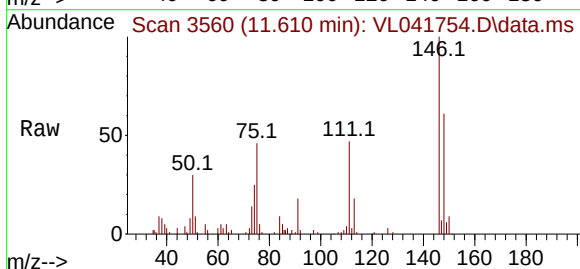
Delta R.T. -0.004 min

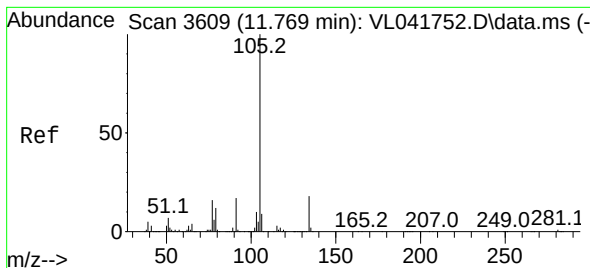
Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 91 Resp: 2518

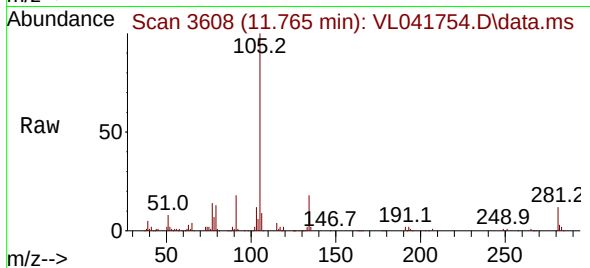
Ion	Ratio	Lower	Upper
91	100		
126	15.6	13.9	20.9
128	5.9	4.4	6.6





#67
 sec-Butylbenzene
 Concen: 1.019 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.004 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

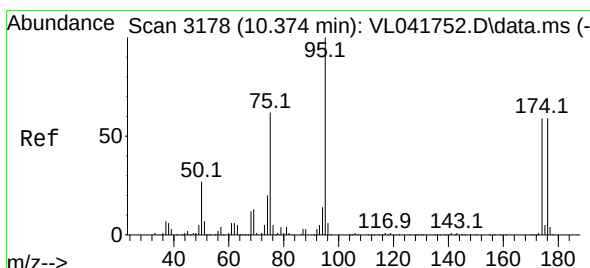
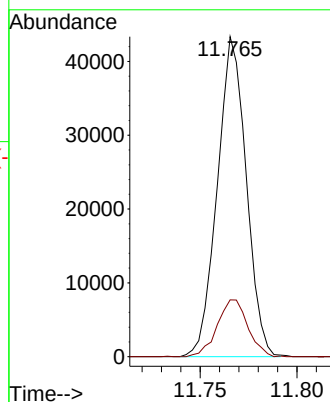
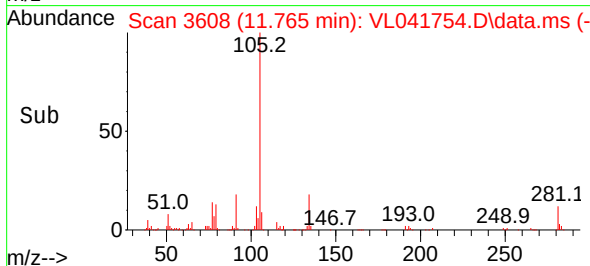
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:105 Resp: 45015
 Ion Ratio Lower Upper
 105 100
 134 18.8 14.5 21.7

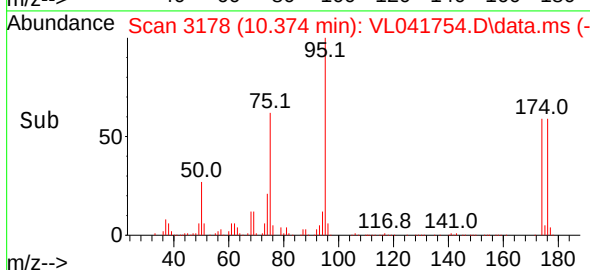
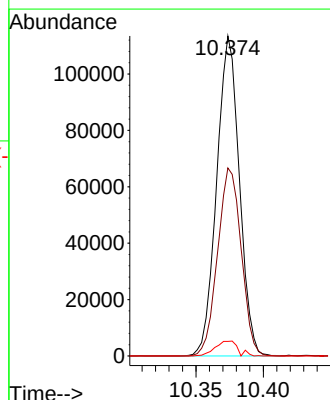
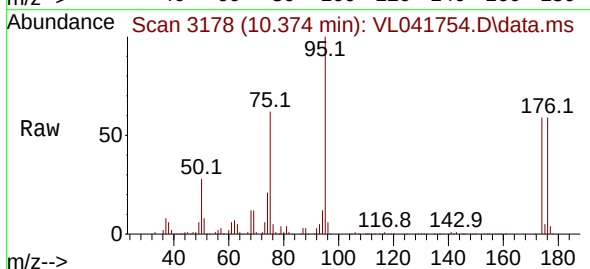
Manual Integrations
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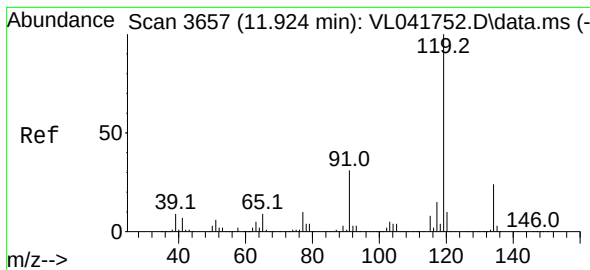
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.825 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 95 Resp: 132857
 Ion Ratio Lower Upper
 95 100
 174 61.0 47.6 71.4
 175 4.7 3.7 5.5





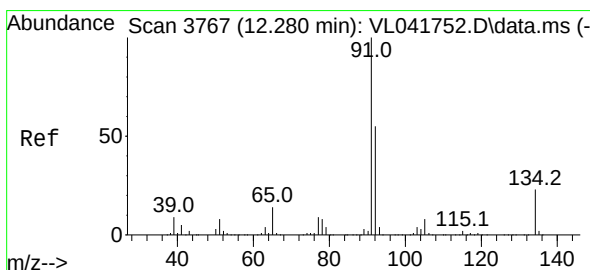
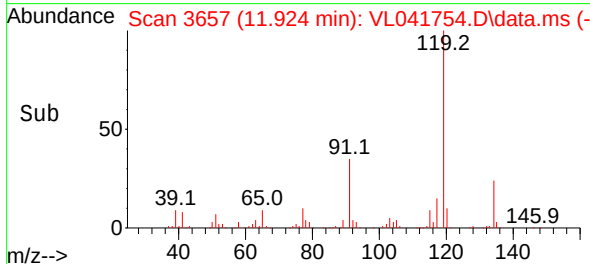
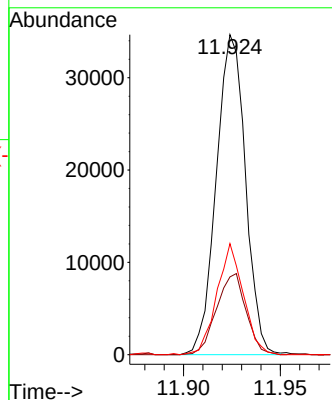
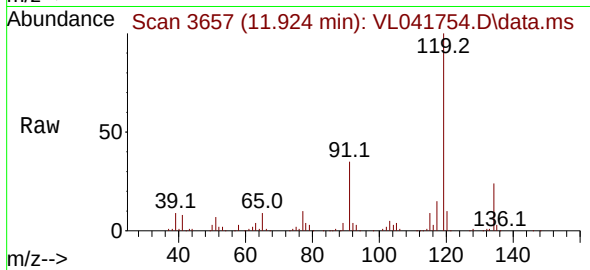
#69
p-Isopropyltoluene
Concen: 0.997 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 119 Resp: 36298
Ion Ratio Lower Upper
119 100
134 25.8 19.6 29.4
91 31.8 24.4 36.6

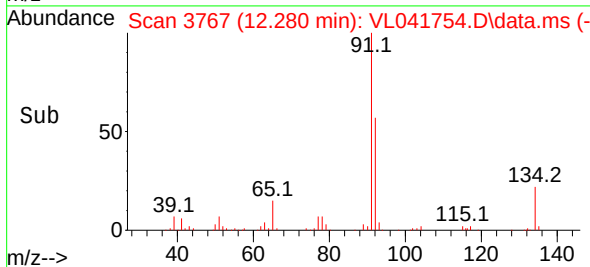
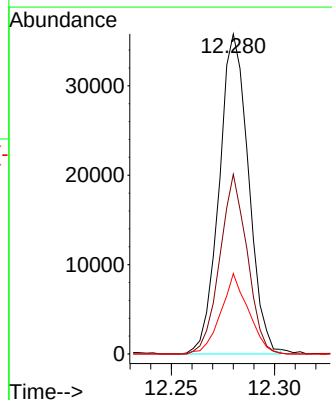
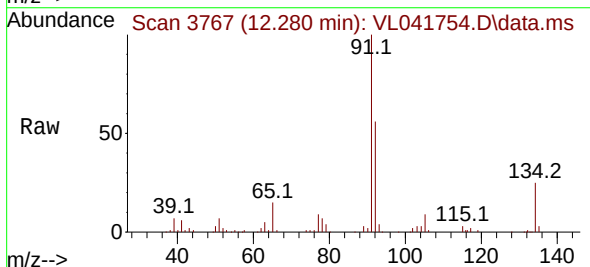
Manual Integrations
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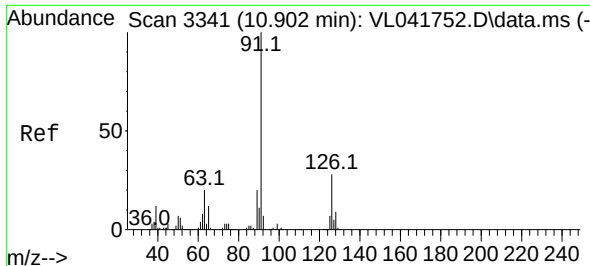
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#70
n-Butylbenzene
Concen: 1.007 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 91 Resp: 35432
Ion Ratio Lower Upper
91 100
92 52.4 43.2 64.8
134 23.6 18.2 27.4





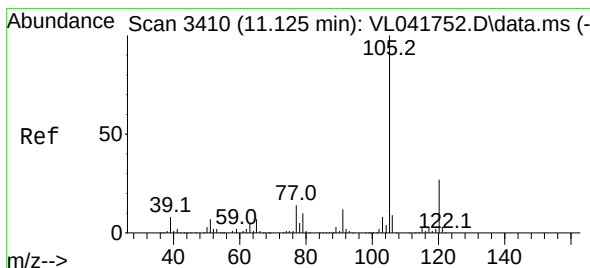
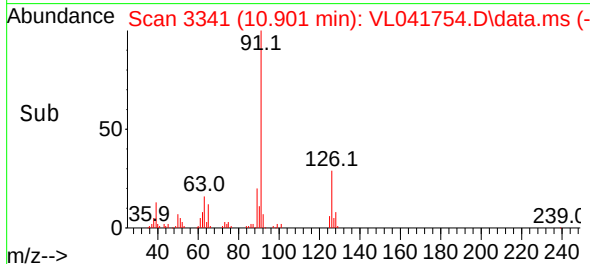
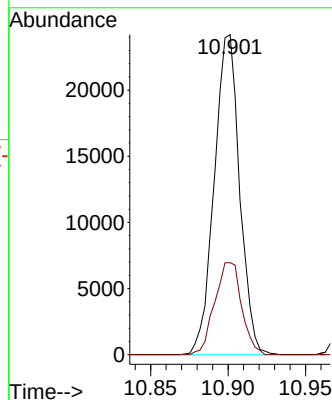
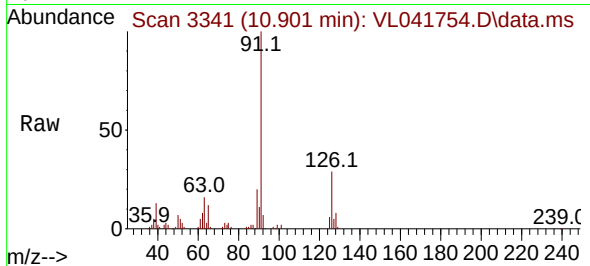
#71
2-Chlorotoluene
Concen: 1.020 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 2756
Ion Ratio Lower Upper
91 100
126 30.5 11.6 46.4

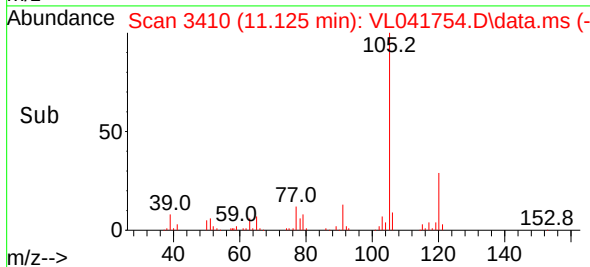
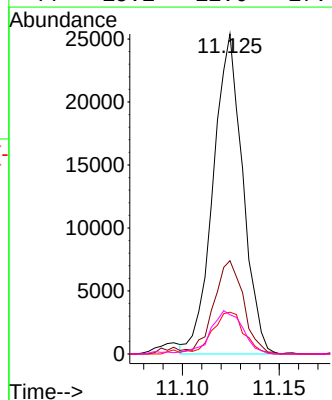
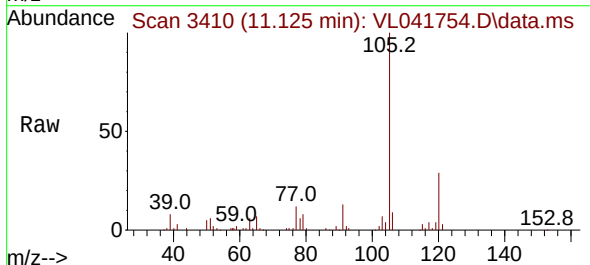
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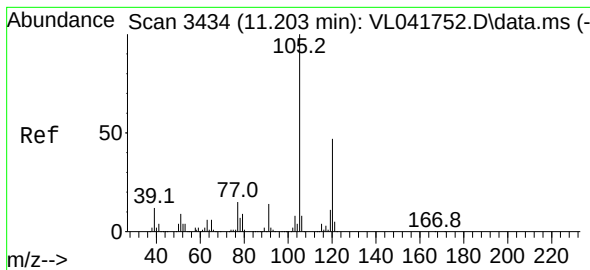
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#72
4-Ethyltoluene
Concen: 0.970 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:105 Resp: 26921
Ion Ratio Lower Upper
105 100
120 30.7 23.3 34.9
91 14.5 10.9 16.3
77 15.1 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.969 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 22360

Ion Ratio Lower Upper

105 100

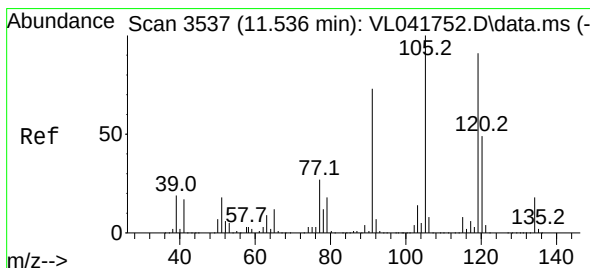
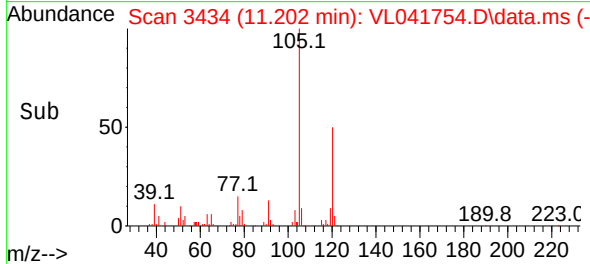
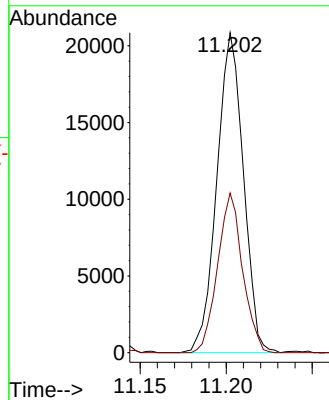
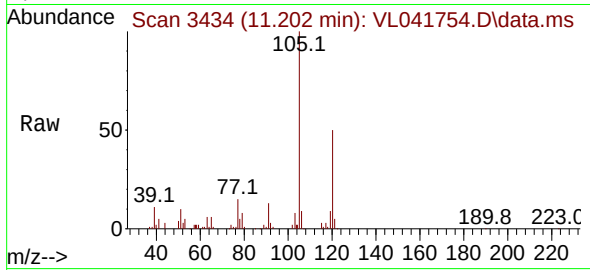
120 49.9 37.4 56.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.994 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:105 Resp: 24654

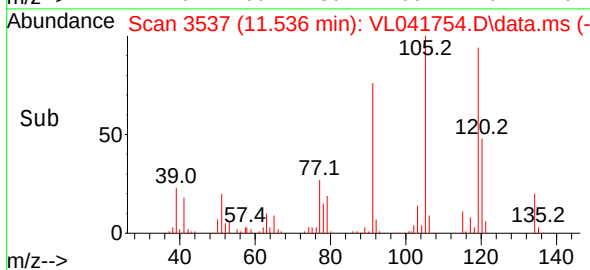
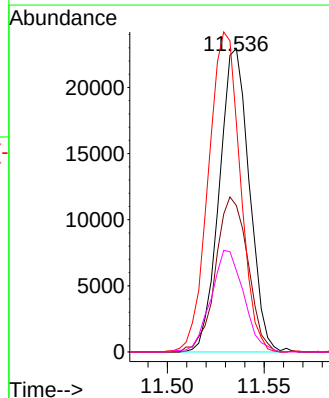
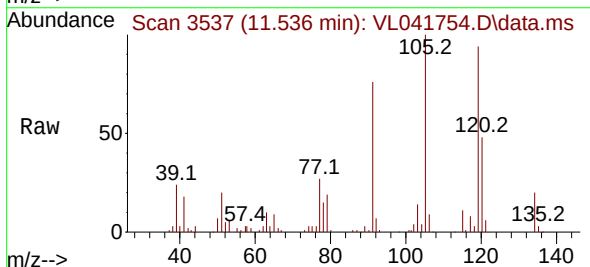
Ion Ratio Lower Upper

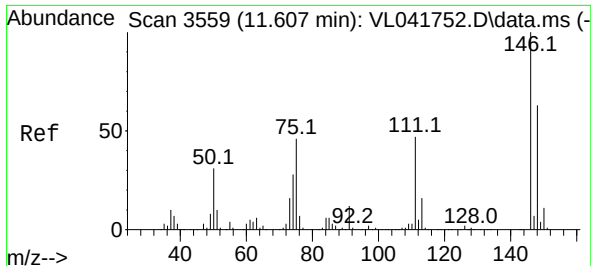
105 100

120 48.3 39.0 58.4

91 75.5 58.1 87.1

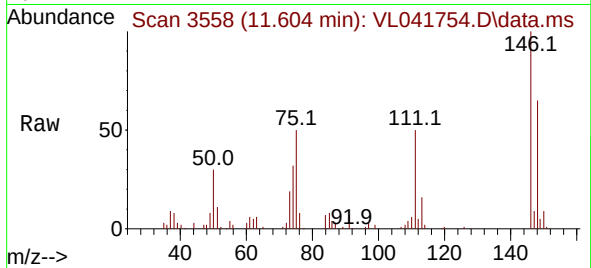
77 26.8 21.8 32.8





#75
1,3-Dichlorobenzene
Concen: 1.042 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.004 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

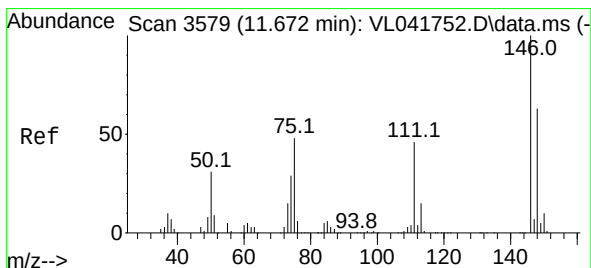
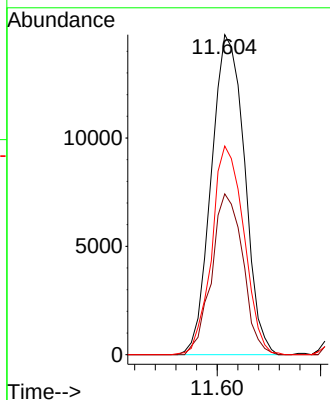
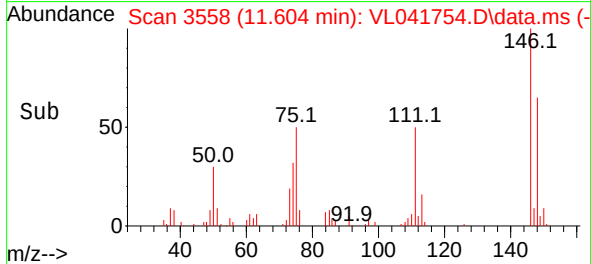
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



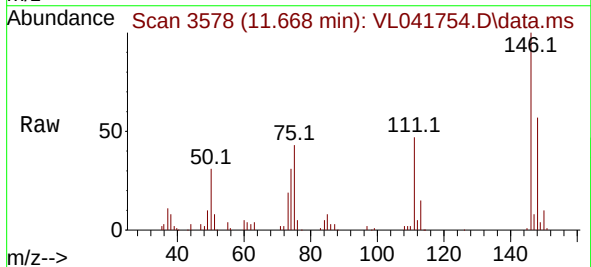
Tgt Ion:146 Resp: 16470
Ion Ratio Lower Upper
146 100
111 47.3 23.4 70.3
148 63.1 31.6 95.0

Manual Integrations
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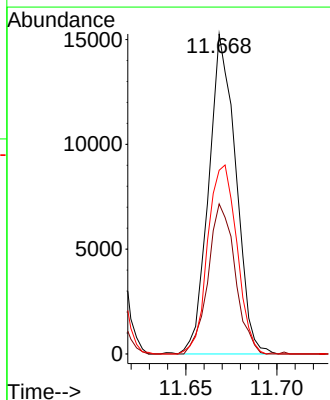
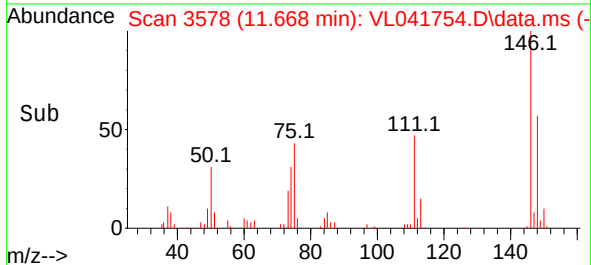
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

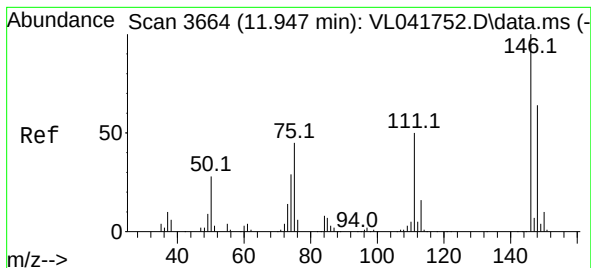


#76
1,4-Dichlorobenzene
Concen: 1.010 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.004 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



Tgt Ion:146 Resp: 15774
Ion Ratio Lower Upper
146 100
111 47.0 22.7 68.1
148 63.4 31.4 94.0





#77

1,2-Dichlorobenzene

Concen: 1.043 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:146 Resp: 1586

Ion Ratio Lower Upper

146 100

111 47.0 24.8 74.3

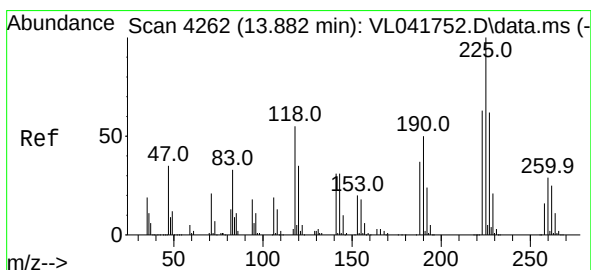
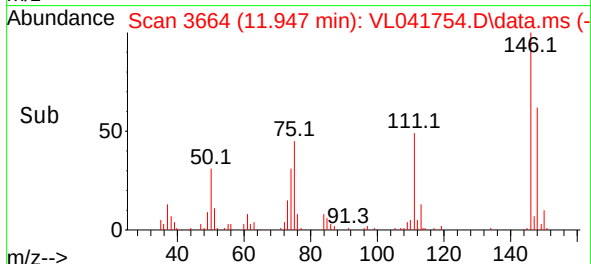
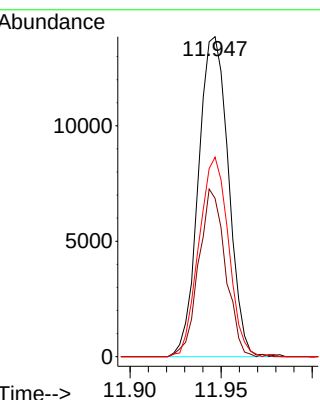
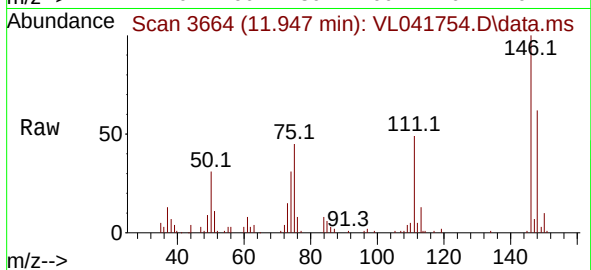
148 61.6 31.8 95.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#78

Hexachloro-1,3-Butadiene

Concen: 1.087 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

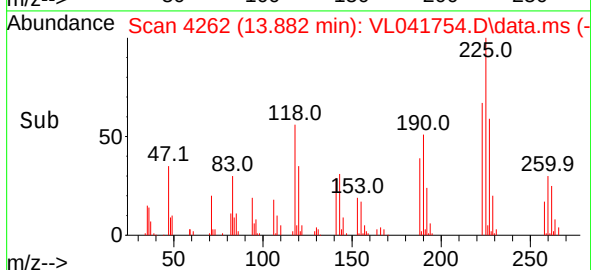
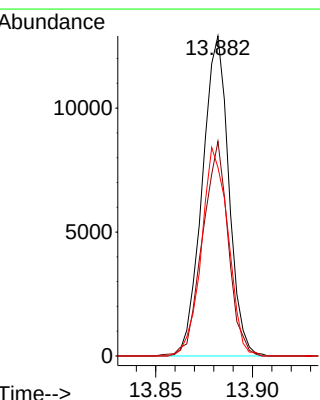
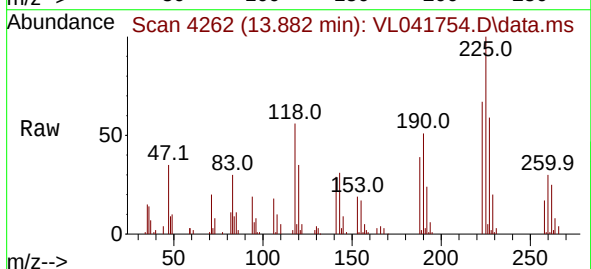
Tgt Ion:225 Resp: 12266

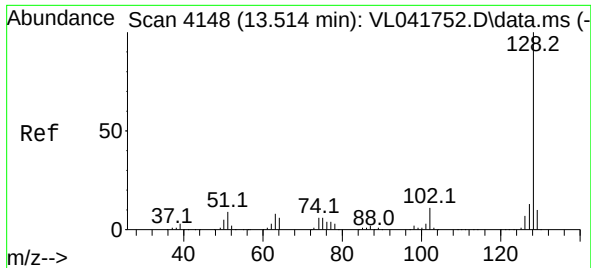
Ion Ratio Lower Upper

225 100

223 65.0 50.5 75.7

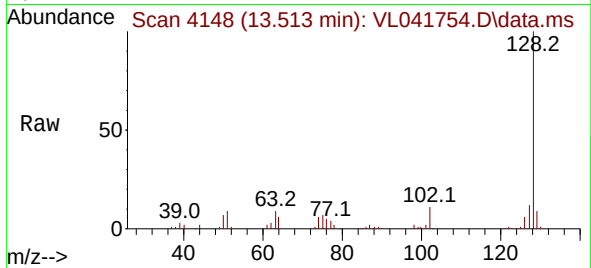
227 65.7 50.3 75.5





#79
Naphthalene
Concen: 0.982 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

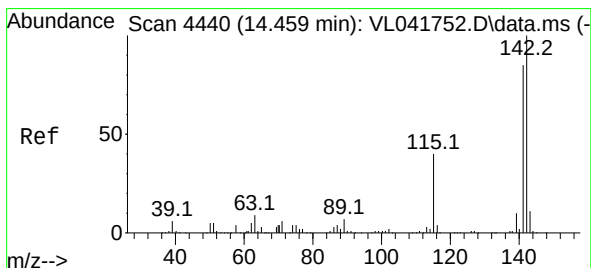
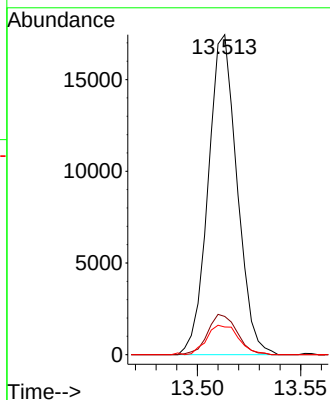
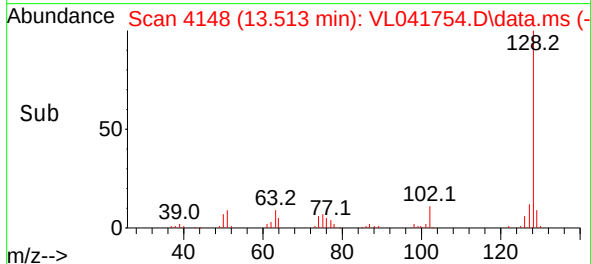
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



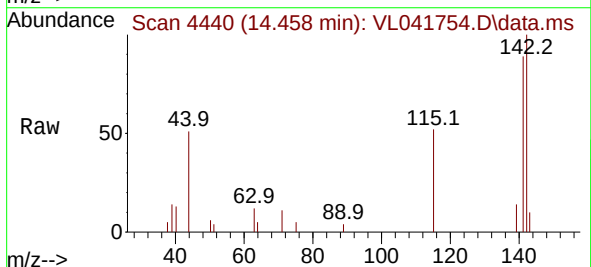
Tgt Ion:128 Resp: 1697
Ion Ratio Lower Upper
128 100
127 12.0 10.7 16.1
129 8.7 8.2 12.4

Manual Integrations
APPROVED

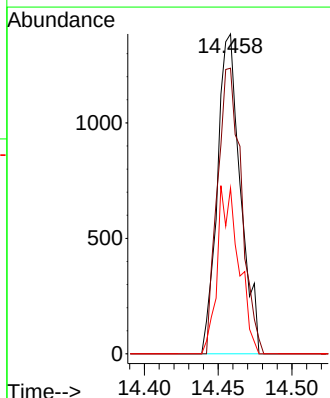
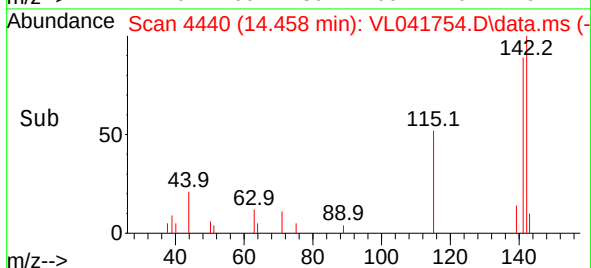
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

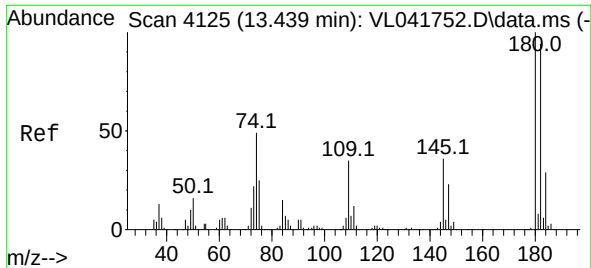


#80
Naphthalene,2-methyl-
Concen: 0.281 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



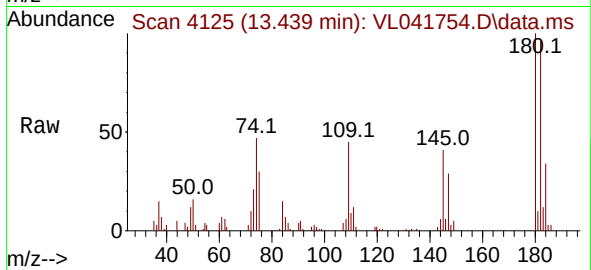
Tgt Ion:142 Resp: 1504
Ion Ratio Lower Upper
142 100
141 92.8 68.4 102.6
115 48.9 32.5 48.7#





#81
1,2,4-Trichlorobenzene
Concen: 0.950 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

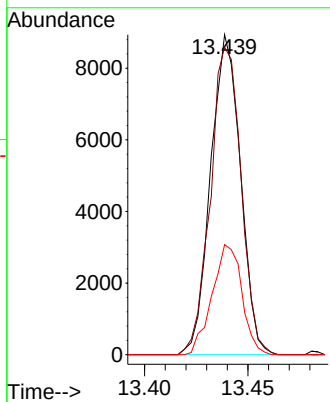
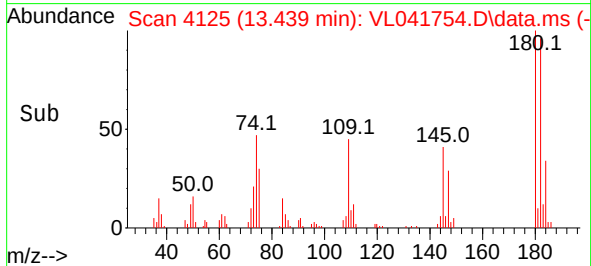
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:180 Resp: 8973
Ion Ratio Lower Upper
180 100
182 99.0 77.0 115.6
184 34.2 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.787	49	66562	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	178453	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	158571	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 132273 10.010 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	6277	0.530	ppbv	94
3) Chlorodifluoromethane	1.476	51	5587	0.515	ppbv	95
4) Chloromethane	1.531	50	2452	0.529	ppbv	90
5) Vinyl Chloride	1.580	62	2269	0.486	ppbv	97
6) Bromomethane	1.667	94	1143	0.519	ppbv #	78
7) Chloroethane	1.703	64	939	0.518	ppbv	88
8) Dichlorotetrafluoroethane	1.554	85	5699	0.538	ppbv	97
9) Propene	1.483	41	2622	0.557	ppbv #	82
10) Heptane	4.978	43	6491m	0.537	ppbv	
11) Trichlorofluoromethane	1.878	101	6594	0.524	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	4962	0.519	ppbv	96
13) Ethanol	1.719	45	269m	0.688	ppbv	
14) Bromoethene	1.781	108	1694	0.524	ppbv #	93
15) Acetone	1.836	43	8233	0.636	ppbv	97
16) 1,3-Butadiene	1.609	39	2966	0.582	ppbv	88
17) tert-Butyl alcohol	2.043	59	6654	0.518	ppbv #	91
18) 1,1-Dichloroethene	2.033	96	2022	0.504	ppbv	96
19) Isopropyl Alcohol	1.884	45	5687	0.732	ppbv #	39
20) Methylene Chloride	2.062	84	2174	0.589	ppbv #	91
21) Allyl Chloride	2.098	41	3354	0.478	ppbv	86
22) trans-1,2-Dichloroethene	2.341	96	2494	0.543	ppbv	83
23) Vinyl Acetate	2.464	43	2599	0.462	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	4854	0.522	ppbv #	97
25) Ethyl Acetate	2.839	43	12040	0.497	ppbv #	97
26) Hexane	2.829	57	4735	0.518	ppbv	96
27) Carbon Disulfide	2.153	76	3409	0.414	ppbv #	37
28) Methyl tert-Butyl Ether	2.441	73	3438	0.464	ppbv	99
29) Chloroform	2.849	83	7172	0.515	ppbv	98
30) Cyclohexane	3.859	84	4051	0.521	ppbv	96
31) cis-1,2-Dichloroethene	2.723	61	4758	0.504	ppbv	91
32) 1,1,1-Trichloroethane	3.367	97	7182	0.518	ppbv	99
34) 2-Butanone	2.557	43	7756	0.540	ppbv	94
35) Carbon Tetrachloride	3.765	117	5655	0.446	ppbv	90
36) Benzene	3.658	78	9629	0.522	ppbv	97
37) 1,2-Dichloroethane	3.218	62	6154	0.536	ppbv	99
38) Trichloroethene	4.551	130	3637m	0.468	ppbv	
39) 1,2-Dichloropropane	4.318	63	3410m	0.511	ppbv	
40) 1,4-Dioxane	4.606	88	1892m	0.580	ppbv	
41) Tetrahydrofuran	3.066	42	4061	0.505	ppbv	99
42) Bromodichloromethane	4.490	83	5926m	0.448	ppbv	
43) Methyl Methacrylate	4.881	69	3322	0.472	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	16294m	0.517	ppbv	
45) t-1,3-Dichloropropene	6.422	75	3406m	0.468	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.597	75	4462m	0.483	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	3636m	0.521	ppbv	
48) Dibromochloromethane	7.387	129	3865	0.406	ppbv	99
49) Bromoform	9.484	173	2928m	0.376	ppbv	
50) 4-Methyl-2-Pentanone	5.765	43	9479m	0.485	ppbv	
51) 2-Hexanone	7.451	43	7412	0.468	ppbv #	99
52) Tetrachloroethene	8.225	164	3091	0.450	ppbv #	78
53) Toluene	6.933	91	10554	0.504	ppbv	99
54) 1,2-Dibromoethane	7.658	107	4819m	0.502	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.930	131	3858m	0.459	ppbv	
57) Chlorobenzene	8.927	112	8346m	0.514	ppbv	
58) Ethyl Benzene	9.358	91	13428	0.470	ppbv	97
59) m/p-Xylene	9.552	91	22560m	0.983	ppbv	
60) o-Xylene	9.963	91	10954	0.476	ppbv	98
61) Styrene	9.869	104	4314	0.433	ppbv	94
62) Isopropylbenzene	10.542	105	16953	0.490	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.966	83	7559	0.525	ppbv	98
64) n-propylbenzene	10.989	120	4126	0.472	ppbv	92
65) tert-Butylbenzene	11.529	119	15569	0.499	ppbv	99
66) Benzyl Chloride	11.620	91	1340m	0.487	ppbv	
67) sec-Butylbenzene	11.769	105	21263	0.492	ppbv	96
69) p-Isopropyltoluene	11.928	119	17041	0.479	ppbv	99
70) n-Butylbenzene	12.284	91	15671	0.456	ppbv	99
71) 2-Chlorotoluene	10.902	91	13000	0.492	ppbv	97
72) 4-Ethyltoluene	11.128	105	13324	0.491	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	10497	0.466	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	11070	0.457	ppbv #	76
75) 1,3-Dichlorobenzene	11.604	146	8107	0.525	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	7893	0.517	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	7997	0.538	ppbv	96
78) Hexachloro-1,3-Butadiene	13.882	225	6232	0.565	ppbv	98
79) Naphthalene	13.517	128	7360	0.436	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	748	0.143	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	4248	0.460	ppbv	93

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

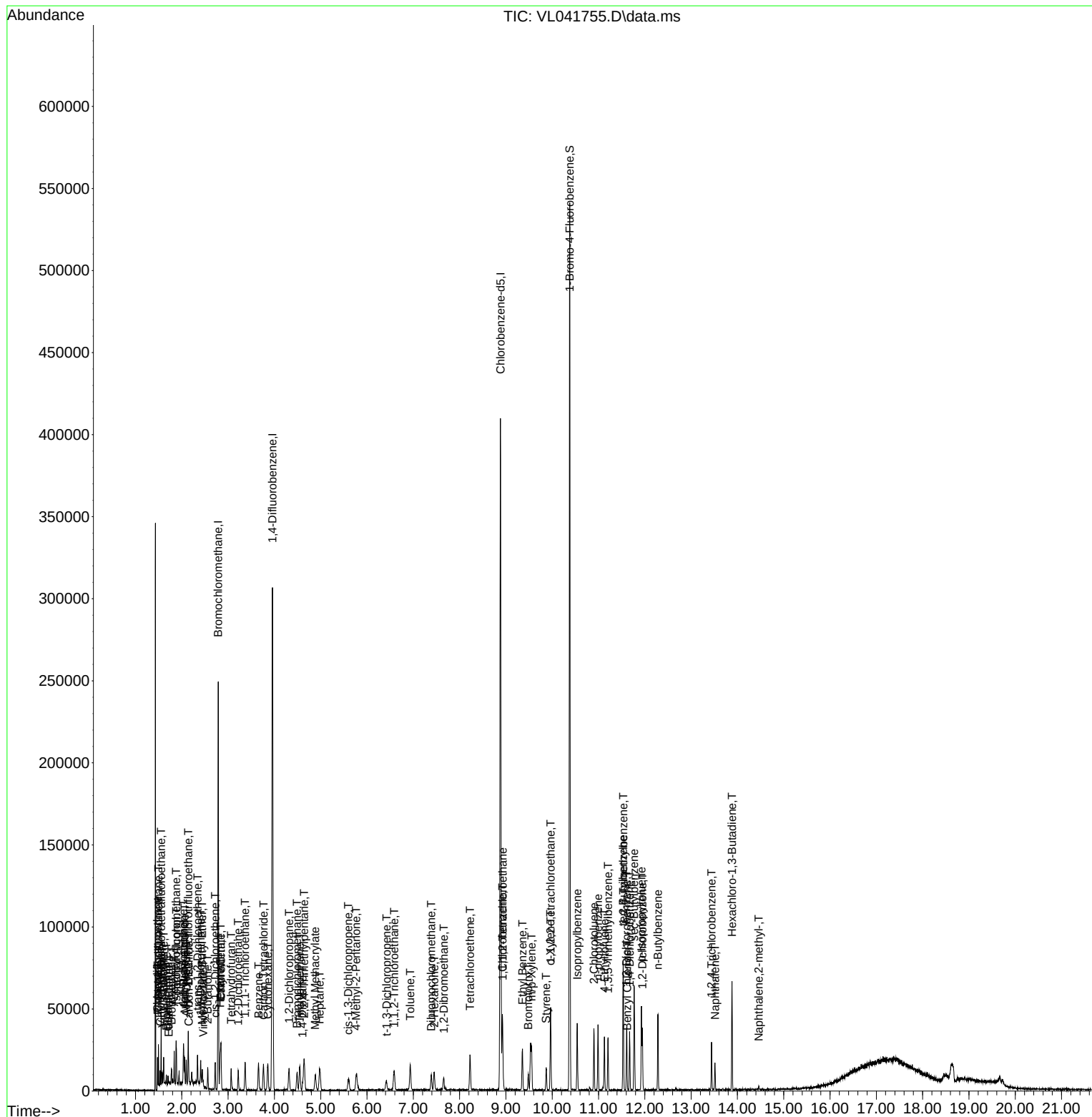
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Data File : VL041755.D
Acq On : 16 Dec 2024 15:05
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

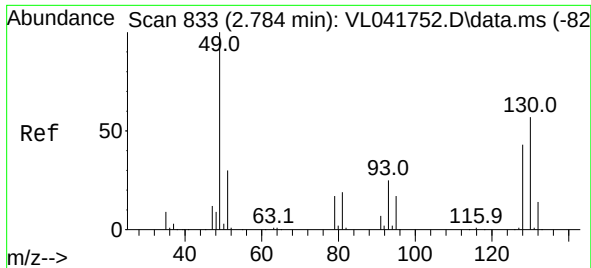
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:14:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration





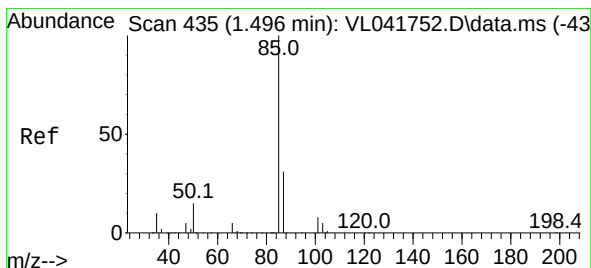
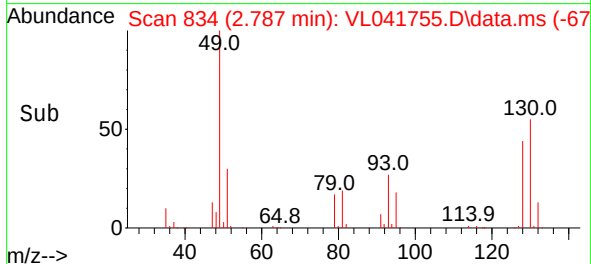
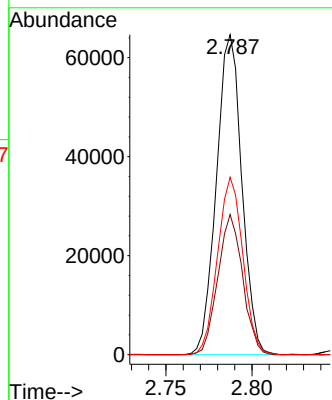
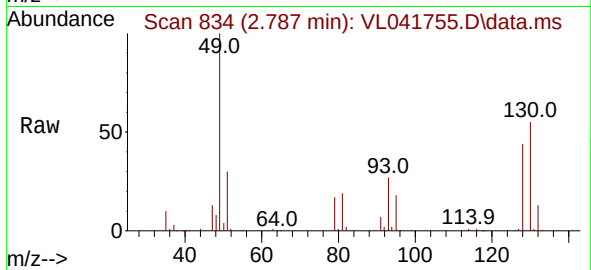
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

Tgt Ion: 49 Resp: 66562
Ion Ratio Lower Upper
49 100
128 42.6 21.6 64.6
130 55.1 28.3 85.0

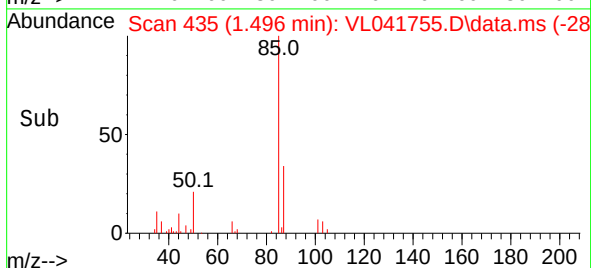
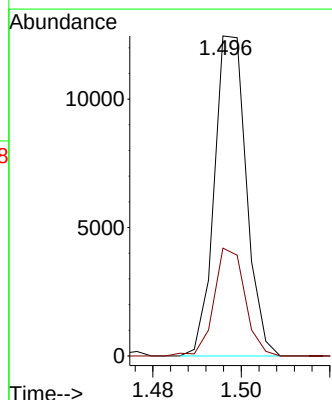
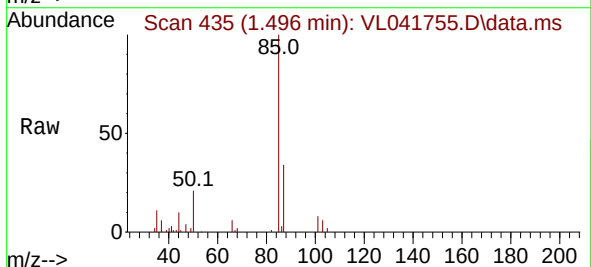
Manual Integrations
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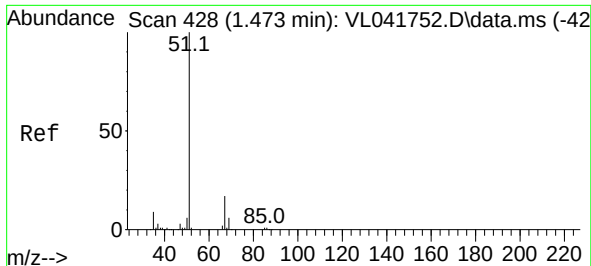
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 85 Resp: 6277
Ion Ratio Lower Upper
85 100
87 33.7 24.5 36.7





#3

Chlorodifluoromethane

Concen: 0.515 ppbv

RT: 1.476 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 51 Resp: 558

Ion Ratio Lower Upper

51 100

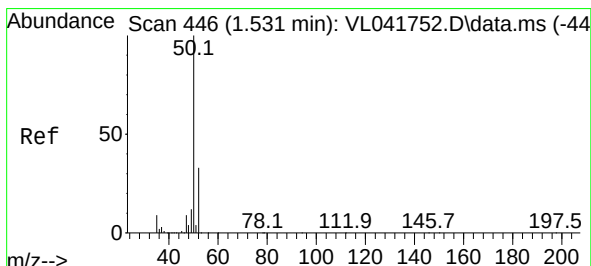
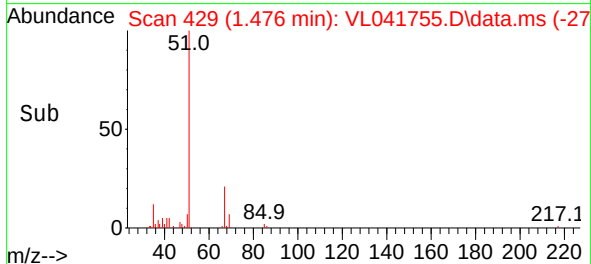
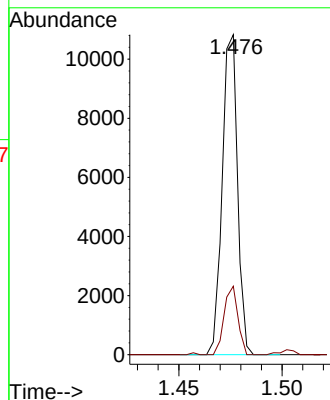
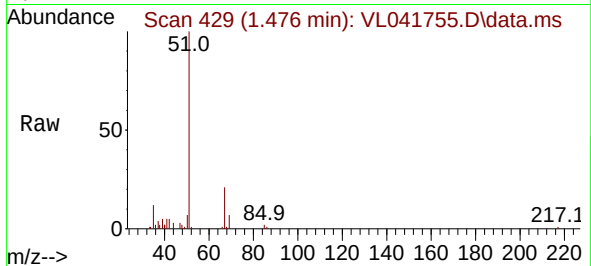
67 21.0 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#4

Chloromethane

Concen: 0.529 ppbv

RT: 1.531 min Scan# 446

Delta R.T. -0.000 min

Lab File: VL041755.D

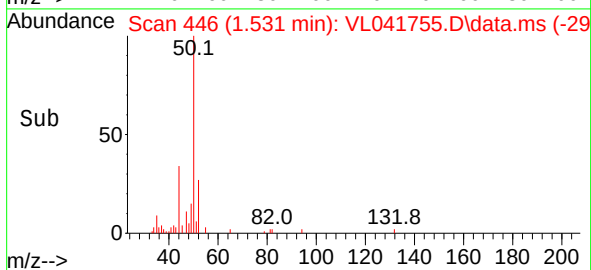
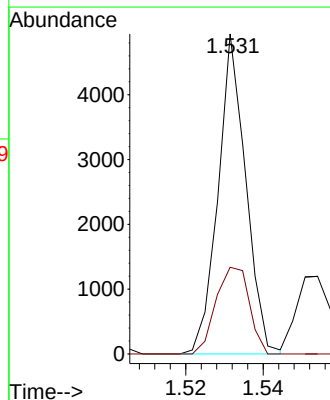
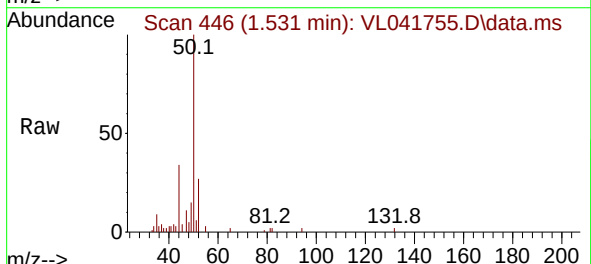
Acq: 16 Dec 2024 15:05

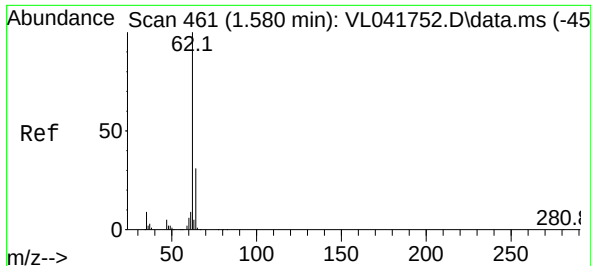
Tgt Ion: 50 Resp: 2452

Ion Ratio Lower Upper

50 100

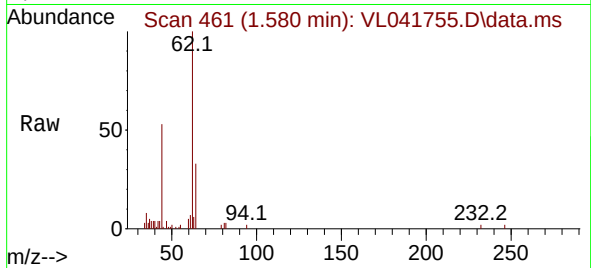
52 27.1 26.2 39.2





#5
 Vinyl Chloride
 Concen: 0.486 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

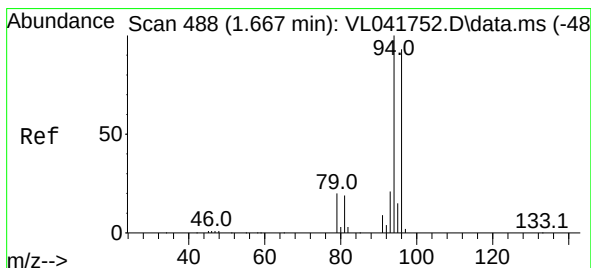
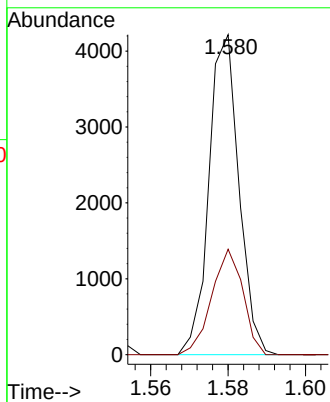
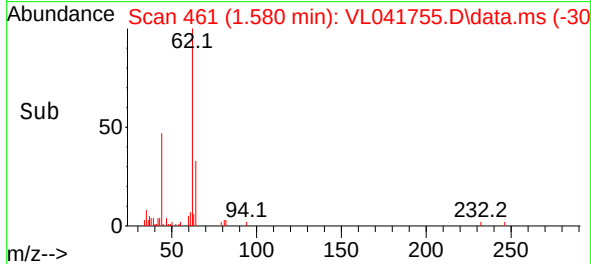
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 62 Resp: 2269
 Ion Ratio Lower Upper
 62 100
 64 32.9 25.1 37.7

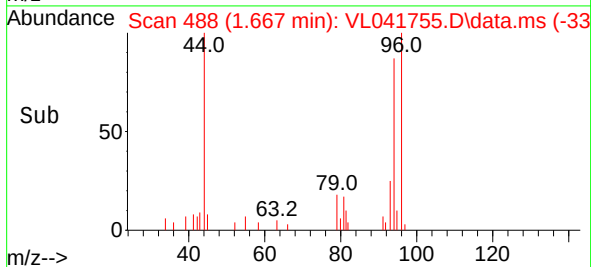
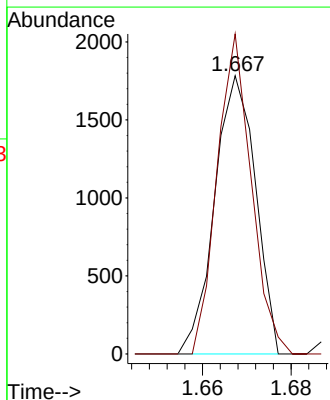
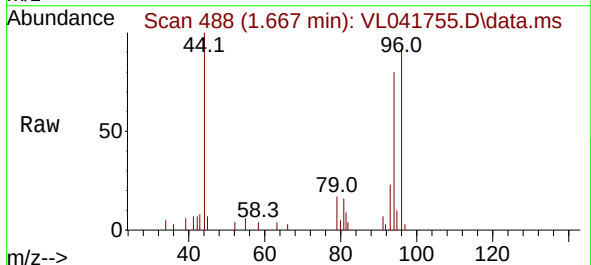
Manual Integrations
 APPROVED

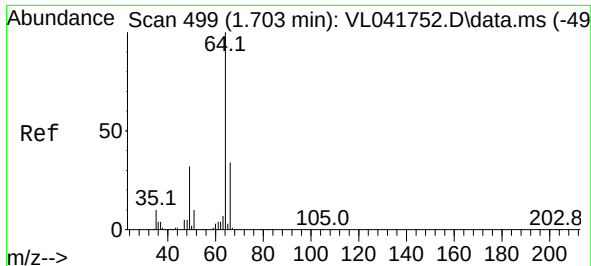
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#6
 Bromomethane
 Concen: 0.519 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

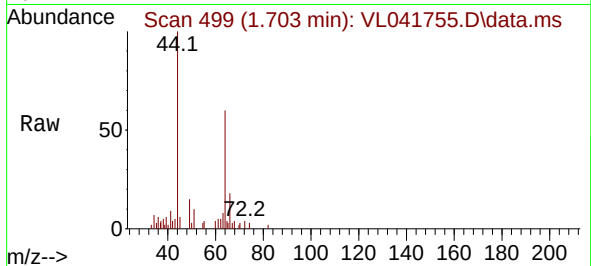
Tgt Ion: 94 Resp: 1143
 Ion Ratio Lower Upper
 94 100
 96 115.0 74.7 112.1#





#7
Chloroethane
Concen: 0.518 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

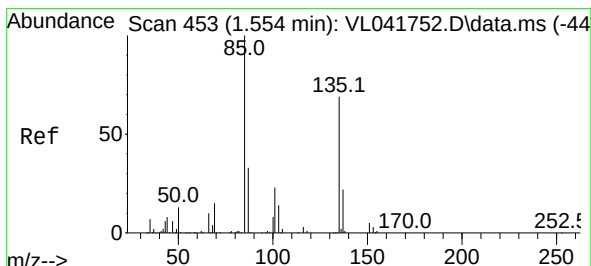
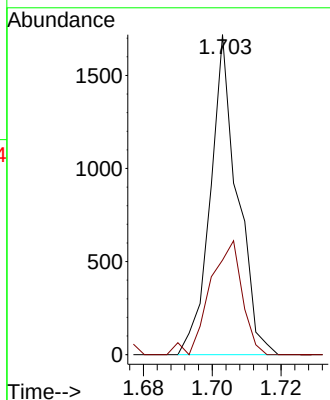
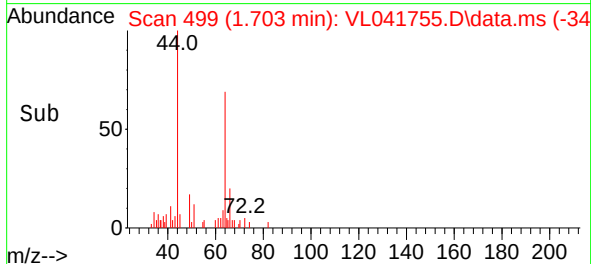
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 64 Resp: 939
Ion Ratio Lower Upper
64 100
66 27.6 27.5 41.3

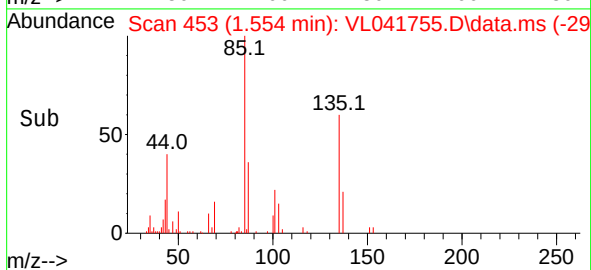
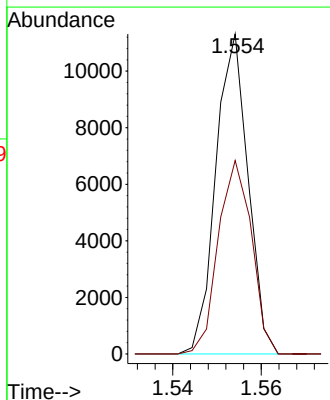
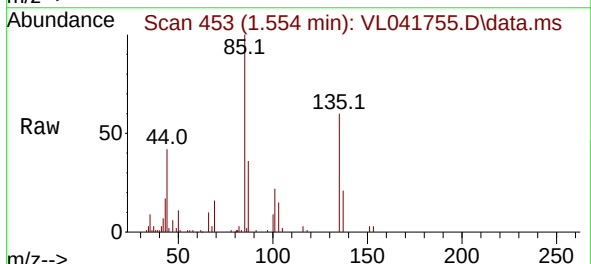
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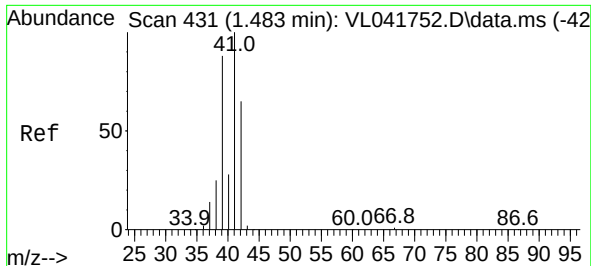
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 0.538 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 85 Resp: 5699
Ion Ratio Lower Upper
85 100
135 62.8 51.9 77.9





#9

Propene

Concen: 0.557 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 41 Resp: 262

Ion Ratio Lower Upper

41 100

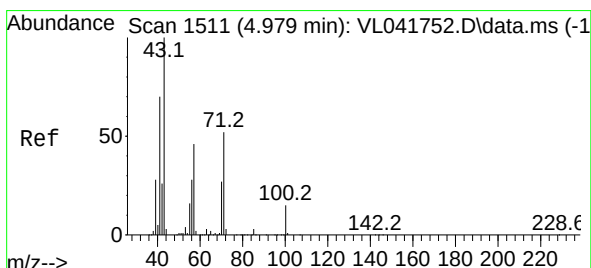
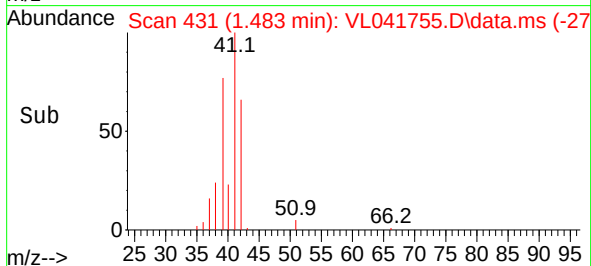
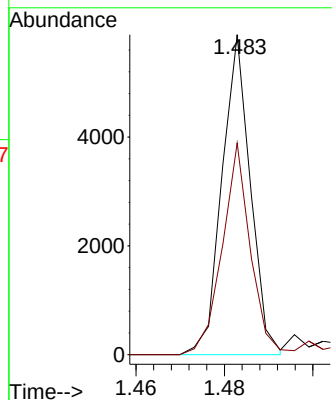
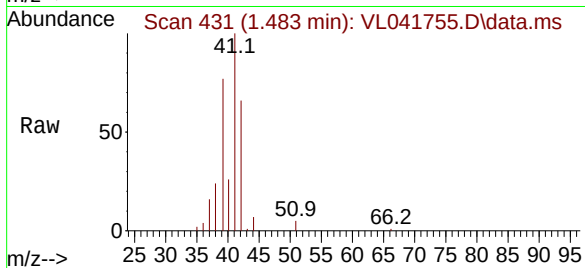
42 79.6 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#10

Heptane

Concen: 0.537 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL041755.D

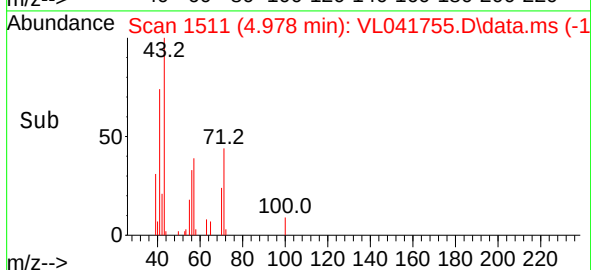
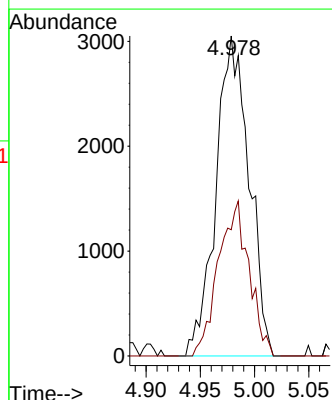
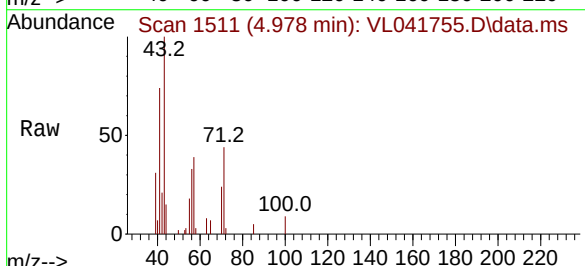
Acq: 16 Dec 2024 15:05

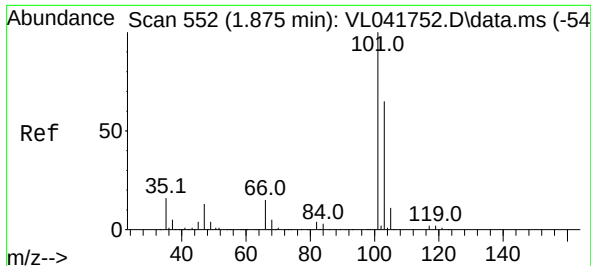
Tgt Ion: 43 Resp: 6491

Ion Ratio Lower Upper

43 100

57 44.7 38.5 57.7





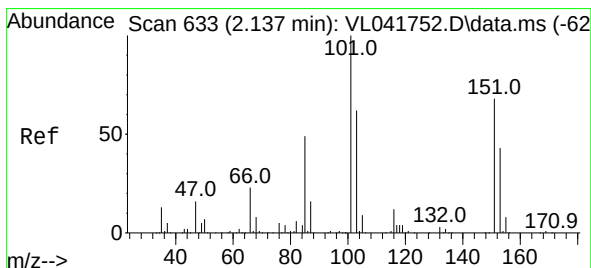
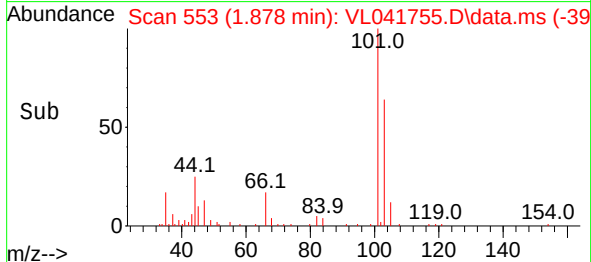
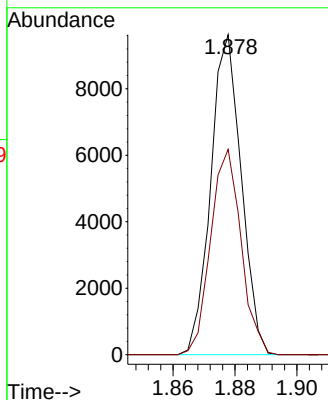
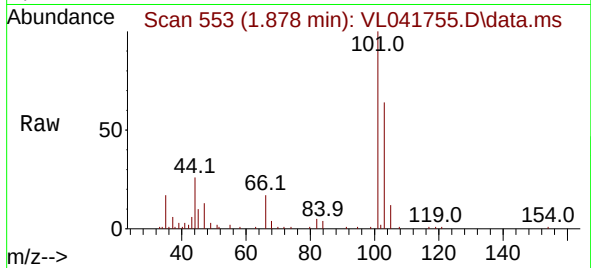
#11
 Trichlorofluoromethane
 Concen: 0.524 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:101 Resp: 6594
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.8 77.8

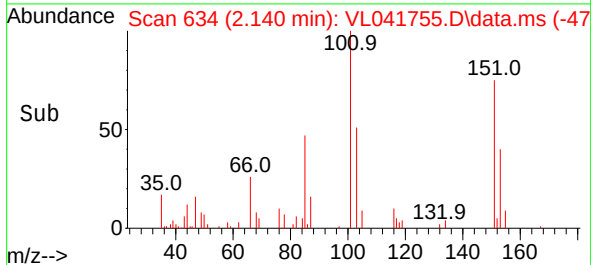
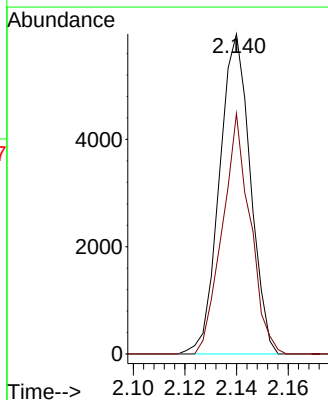
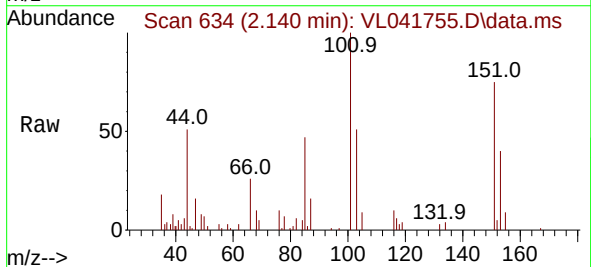
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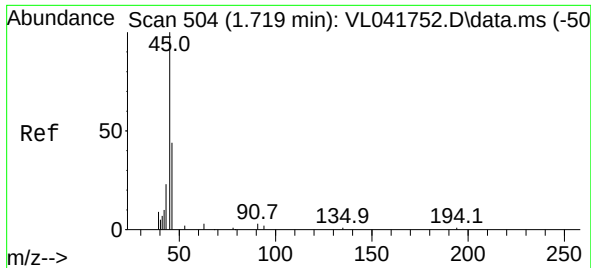
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.519 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

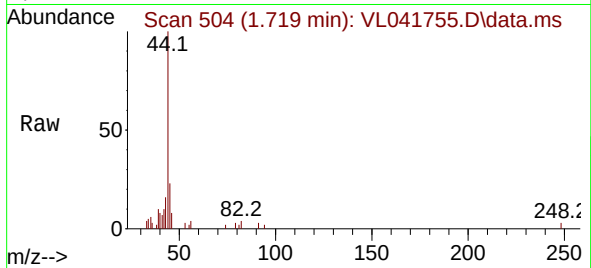
Tgt Ion:101 Resp: 4962
 Ion Ratio Lower Upper
 101 100
 151 67.9 56.8 85.2





#13
Ethanol
Concen: 0.688 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

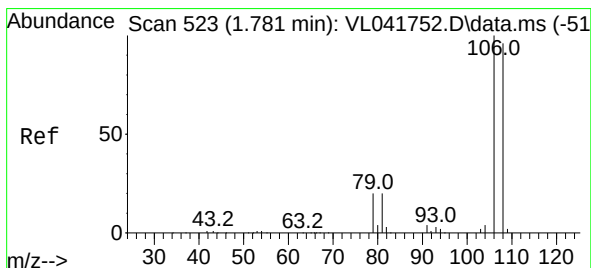
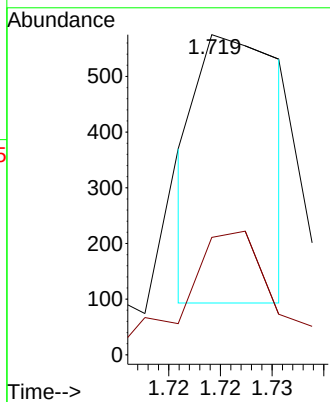
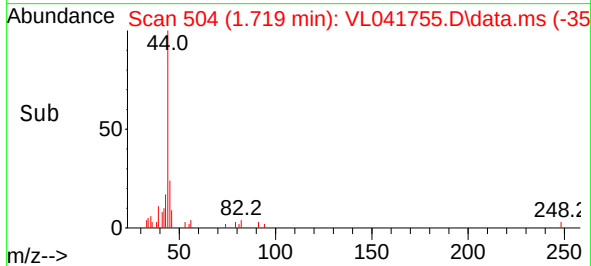
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 45 Resp: 269
Ion Ratio Lower Upper
45 100
46 61.7 16.4 65.8

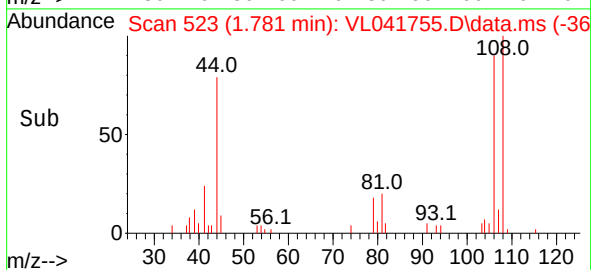
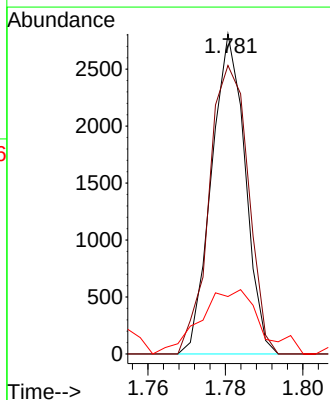
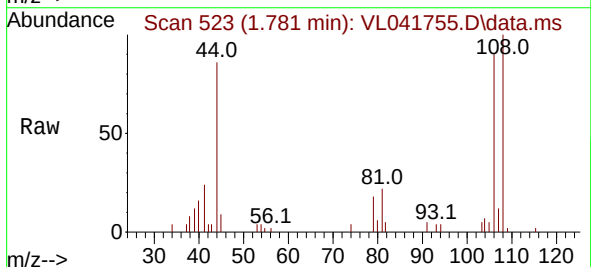
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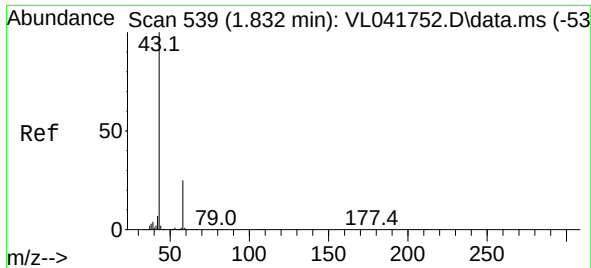
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#14
Bromoethene
Concen: 0.524 ppbv
RT: 1.781 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion:108 Resp: 1694
Ion Ratio Lower Upper
108 100
106 105.1 84.1 126.1
79 41.4 17.4 26.0#





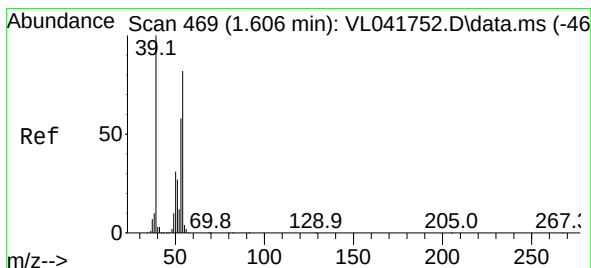
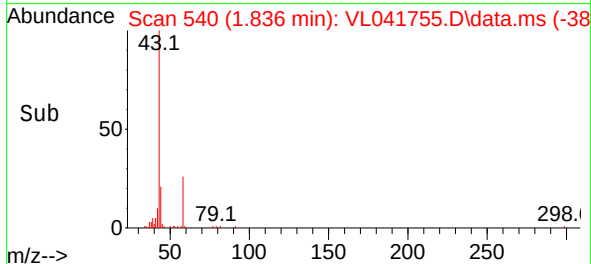
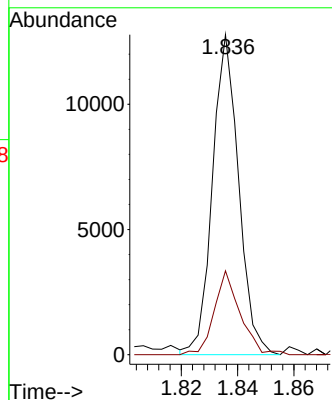
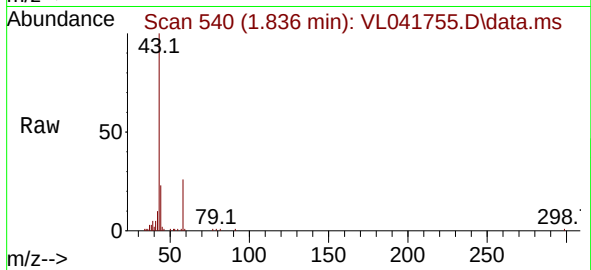
#15
Acetone
Concen: 0.636 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 823
Ion Ratio Lower Upper
43 100
58 26.0 19.7 29.5

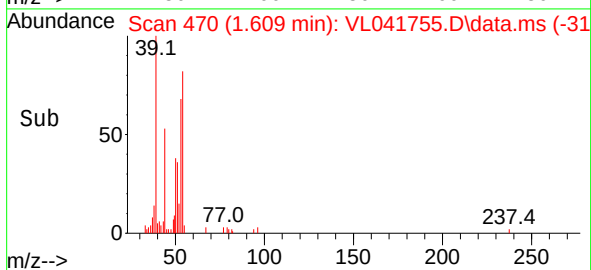
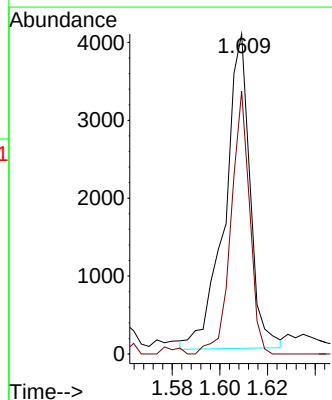
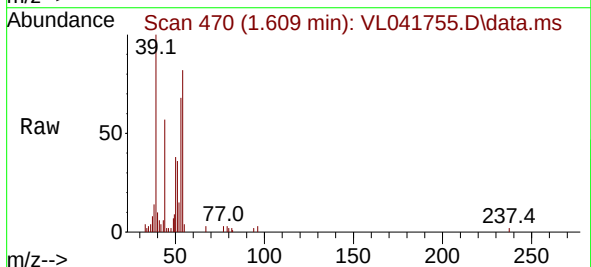
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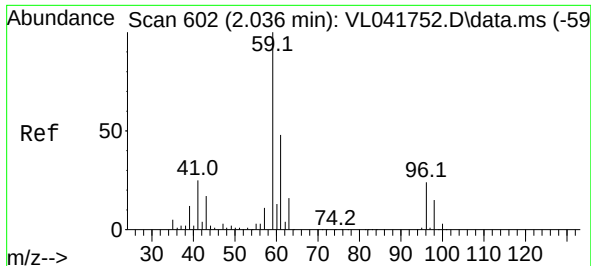
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#16
1,3-Butadiene
Concen: 0.582 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 39 Resp: 2966
Ion Ratio Lower Upper
39 100
54 62.8 58.4 87.6





#17

tert-Butyl alcohol

Concen: 0.518 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 59 Resp: 665

Ion Ratio Lower Upper

59 100

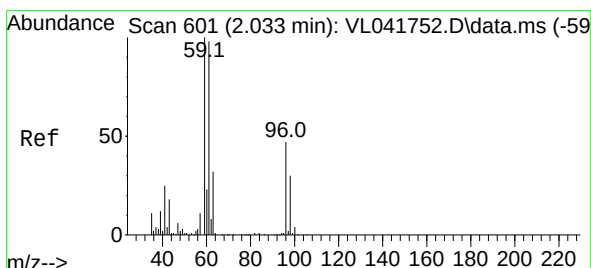
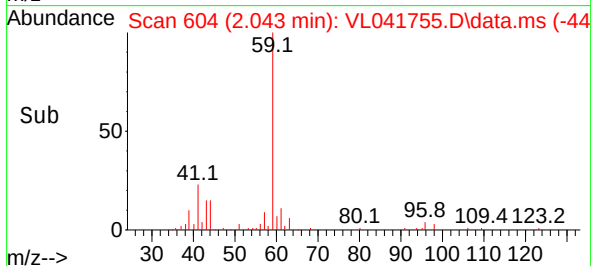
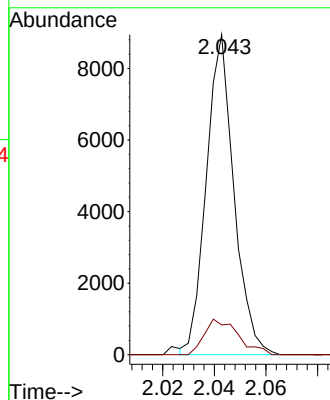
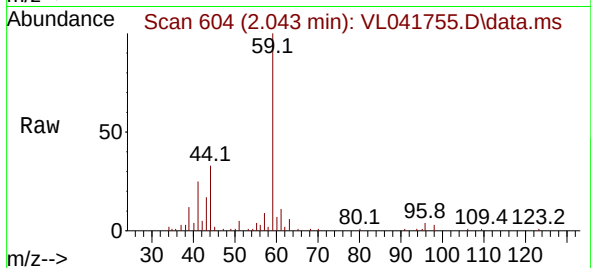
57 14.3 8.6 13.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#18

1,1-Dichloroethene

Concen: 0.504 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

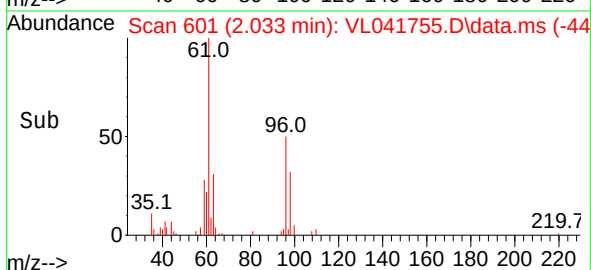
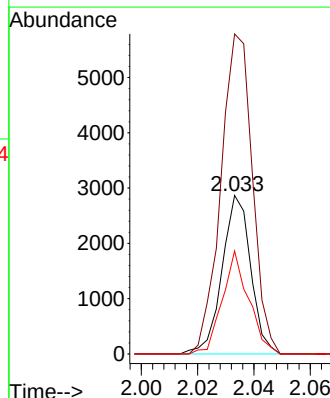
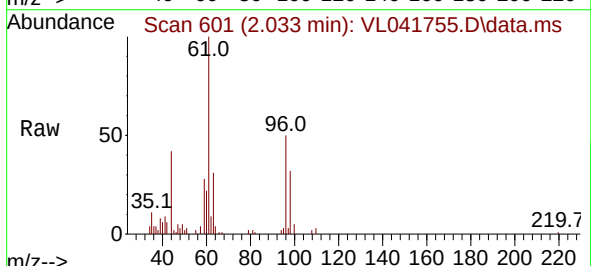
Tgt Ion: 96 Resp: 2022

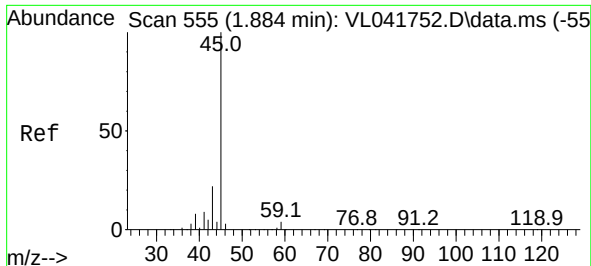
Ion Ratio Lower Upper

96 100

61 201.9 167.7 251.5

98 65.1 51.1 76.7





#19

Isopropyl Alcohol

Concen: 0.732 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 45 Resp: 568

Ion Ratio Lower Upper

45 100

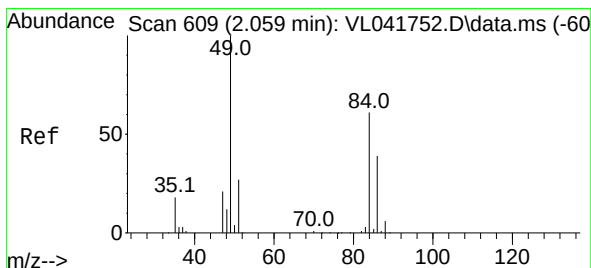
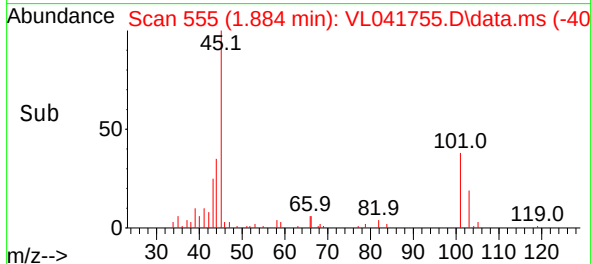
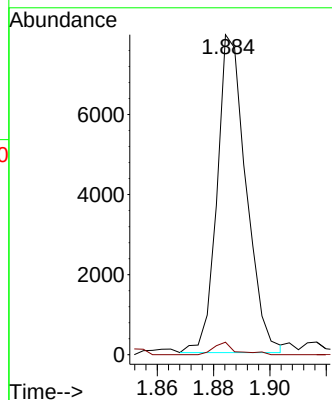
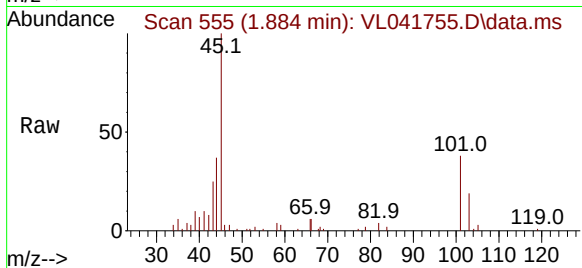
58 2.9 33.3 49.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#20

Methylene Chloride

Concen: 0.589 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion: 84 Resp: 2174

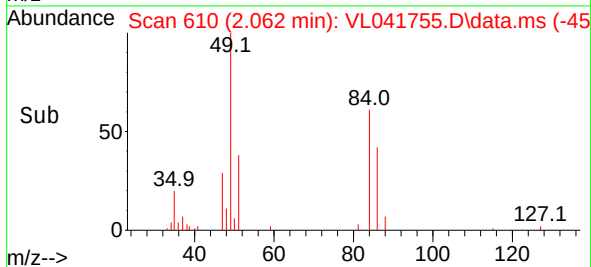
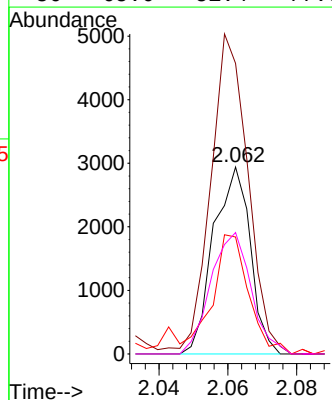
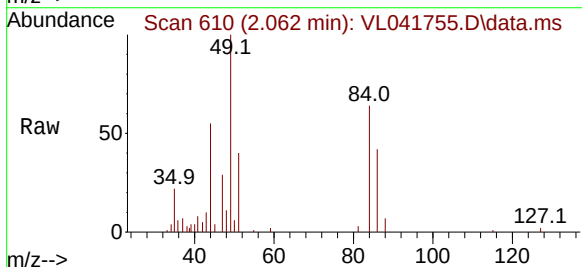
Ion Ratio Lower Upper

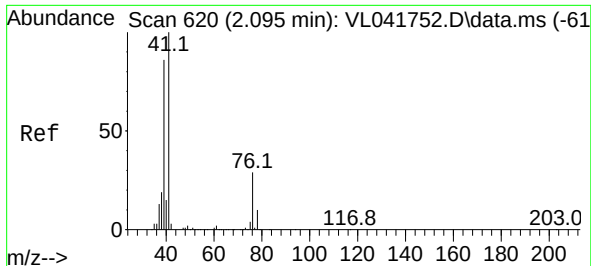
84 100

49 152.6 132.6 198.8

51 57.2 37.6 56.4

86 65.0 51.4 77.0





#21

Allyl Chloride

Concen: 0.478 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

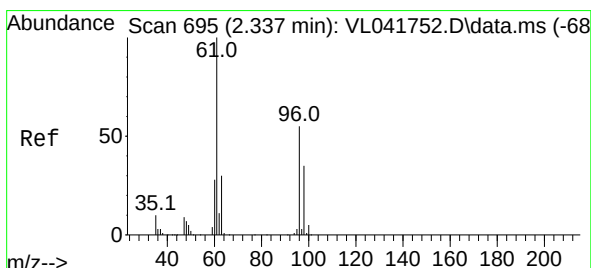
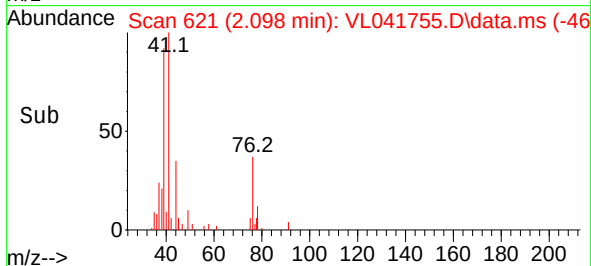
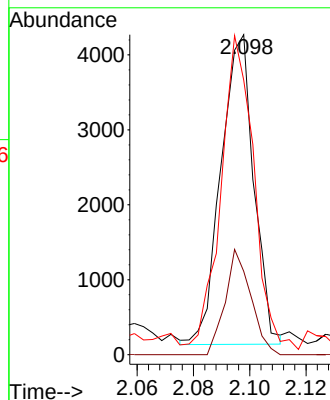
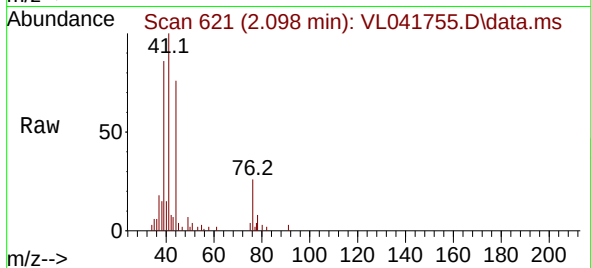
VSTDICC0.5

Tgt Ion:	41	Resp:	335
Ion Ratio	Lower	Upper	
41	100		
76	26.5	22.3	33.5
39	102.6	69.2	103.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#22

trans-1,2-Dichloroethene

Concen: 0.543 ppbv

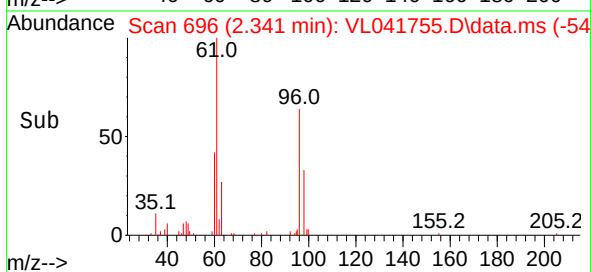
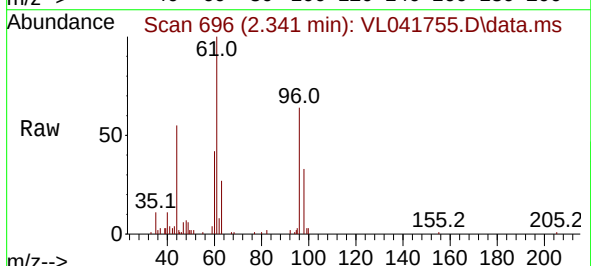
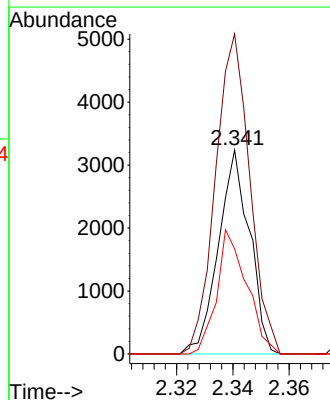
RT: 2.341 min Scan# 696

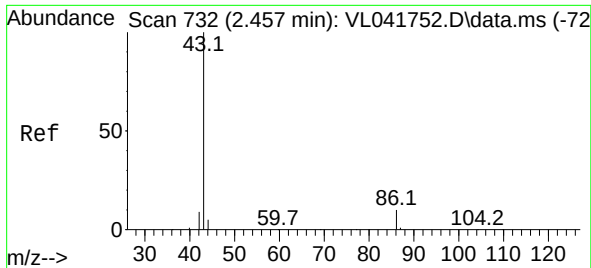
Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:	96	Resp:	2494
Ion Ratio	Lower	Upper	
96	100		
61	156.8	146.3	219.5
98	51.6	50.8	76.2





#23
 Vinyl Acetate
 Concen: 0.462 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

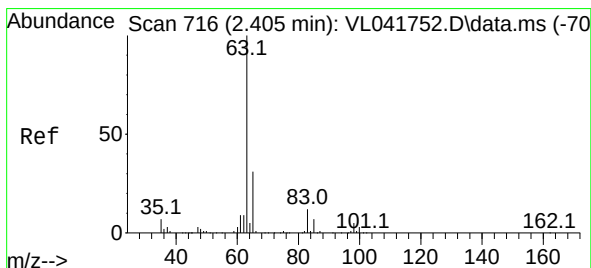
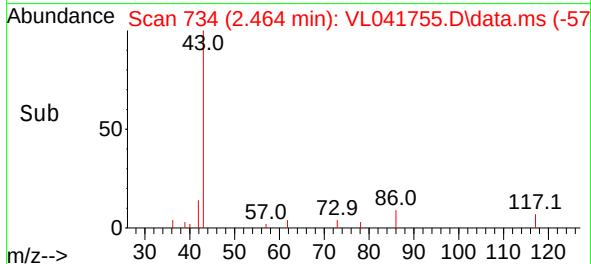
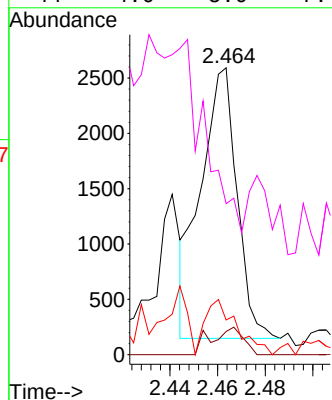
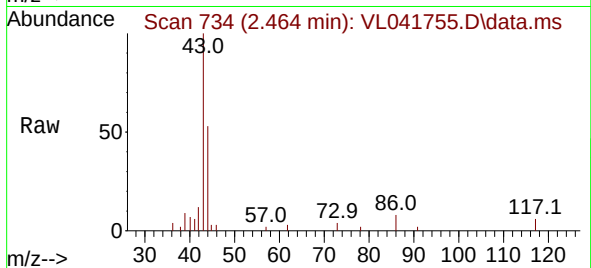
VSTDIC0.5

Tgt Ion: 43 Resp: 2599
 Ion Ratio Lower Upper
 43 100
 86 8.6 6.6 10.0
 42 10.2 8.2 12.2
 44 4.0 5.0 7.4#

Manual Integrations

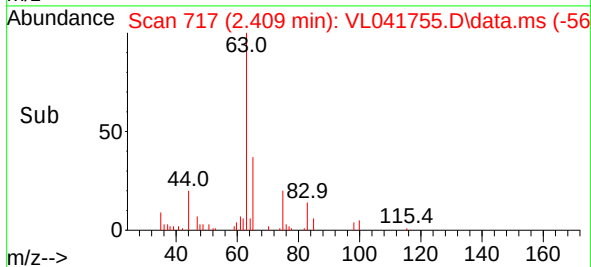
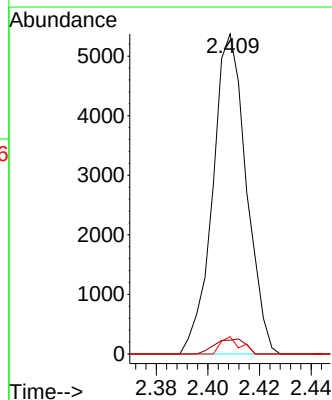
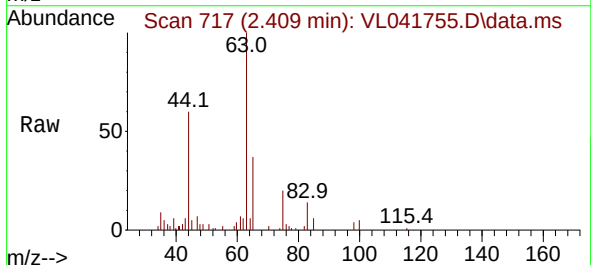
APPROVED

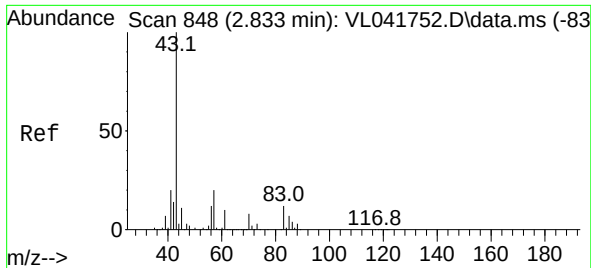
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#24
 1,1-Dichloroethane
 Concen: 0.522 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

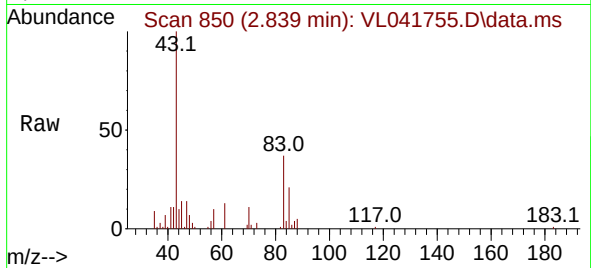
Tgt Ion: 63 Resp: 4854
 Ion Ratio Lower Upper
 63 100
 98 4.3 2.3 6.8
 100 5.4 1.4 4.2#





#25
Ethyl Acetate
Concen: 0.497 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

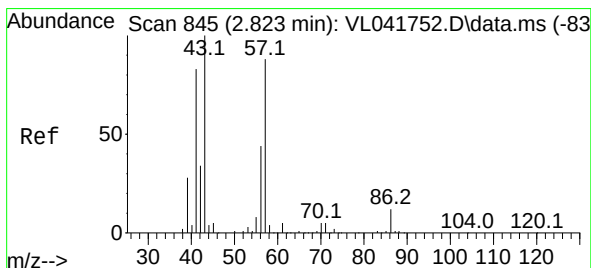
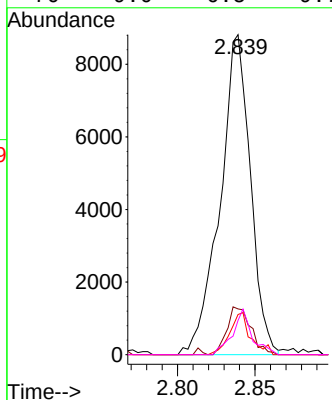
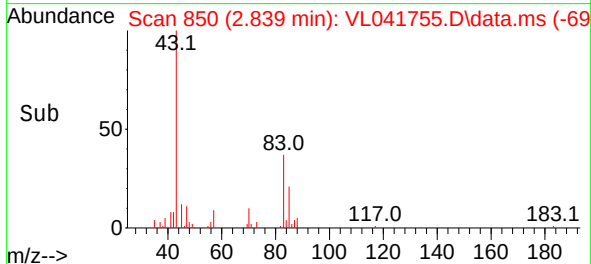
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 12040
Ion Ratio Lower Upper
43 100
45 12.2 8.1 12.1
61 9.0 7.0 10.6
70 9.0 6.5 9.7

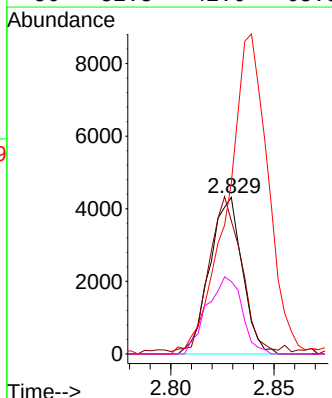
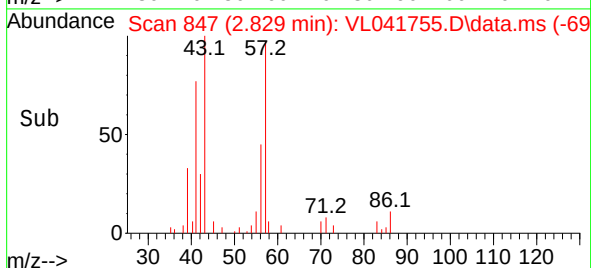
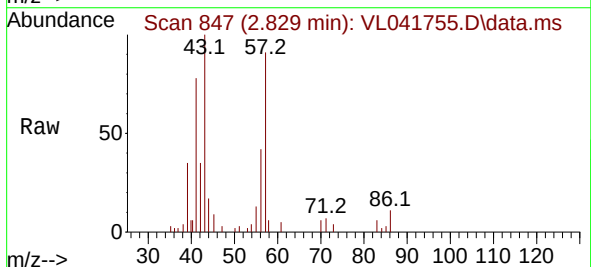
Manual Integrations
APPROVED

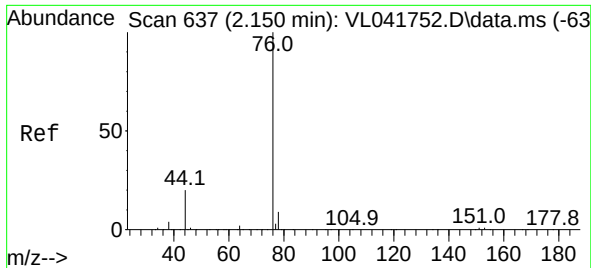
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#26
Hexane
Concen: 0.518 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

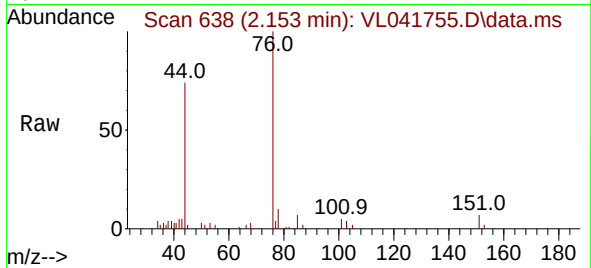
Tgt Ion: 57 Resp: 4735
Ion Ratio Lower Upper
57 100
41 106.1 79.6 119.4
43 258.2 211.0 316.6
56 52.8 42.6 63.8





#27
Carbon Disulfide
Concen: 0.414 ppbv
RT: 2.153 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

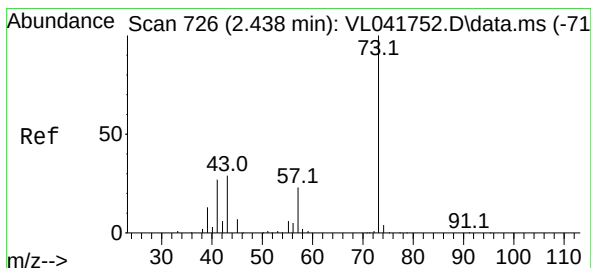
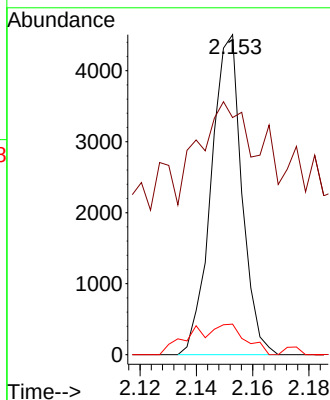
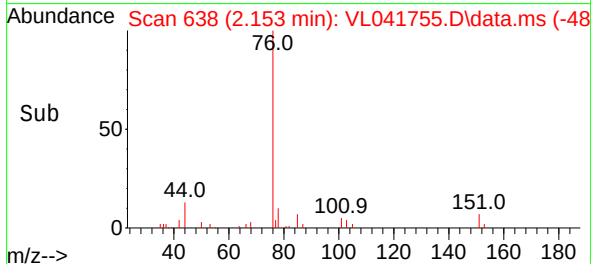
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 3409
Ion Ratio Lower Upper
76 100
44 65.5 17.6 26.4
78 18.2 10.2 15.4

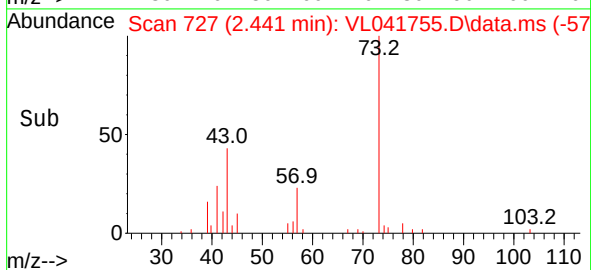
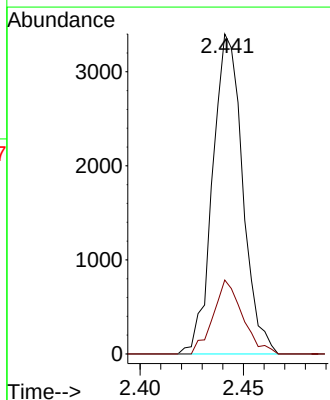
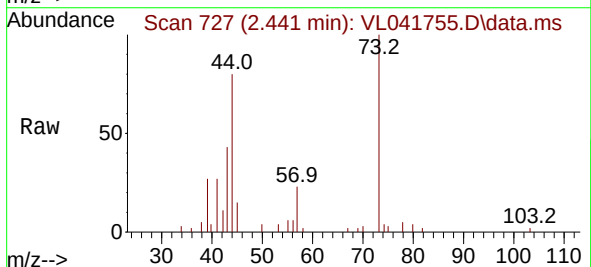
Manual Integrations
APPROVED

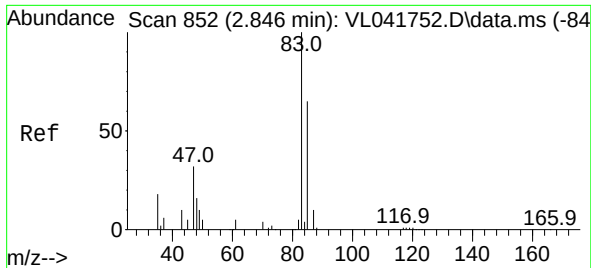
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#28
Methyl tert-Butyl Ether
Concen: 0.464 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 73 Resp: 3438
Ion Ratio Lower Upper
73 100
57 22.6 17.6 26.4





#29

Chloroform

Concen: 0.515 ppbv

RT: 2.849 min Scan# 852

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 7172

Ion Ratio Lower Upper

83 100

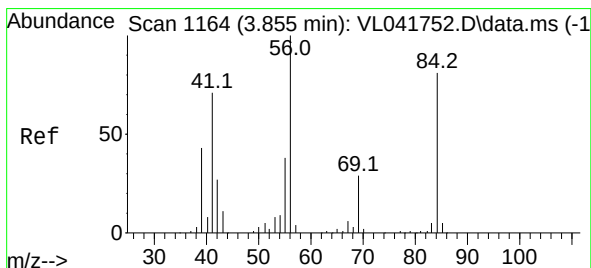
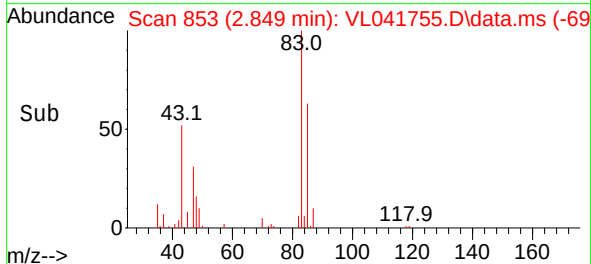
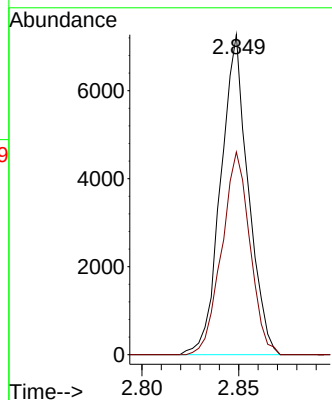
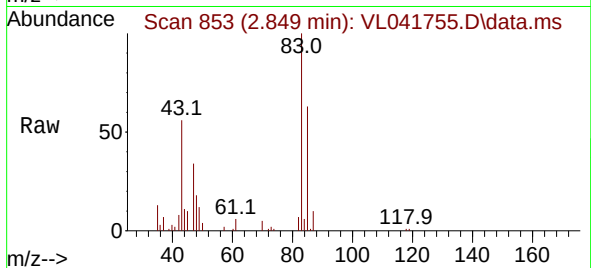
85 63.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 0.521 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

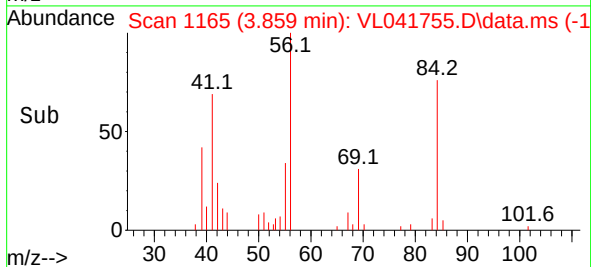
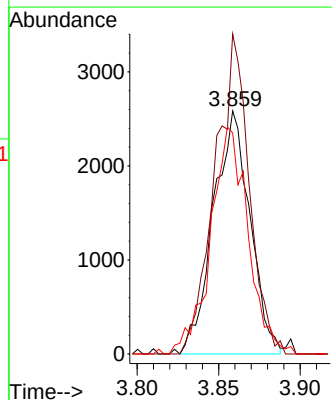
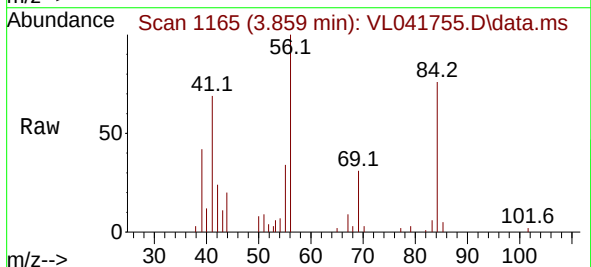
Tgt Ion: 84 Resp: 4051

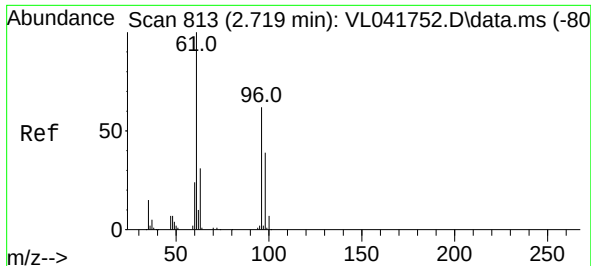
Ion Ratio Lower Upper

84 100

56 122.5 102.3 153.5

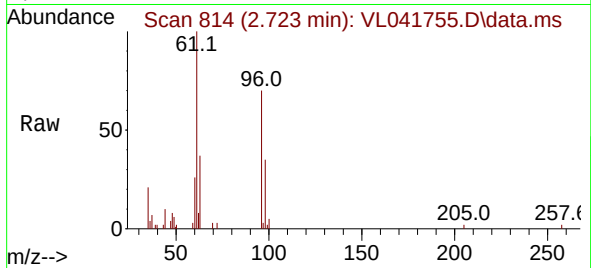
41 94.8 74.0 111.0





#31
cis-1,2-Dichloroethene
Concen: 0.504 ppbv
RT: 2.723 min Scan# 814
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

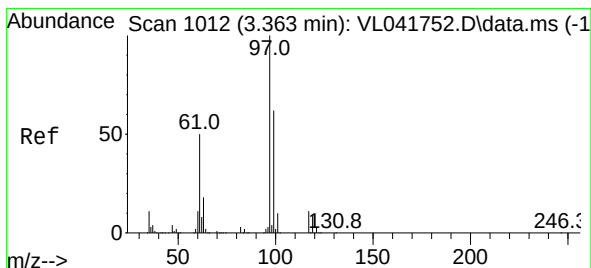
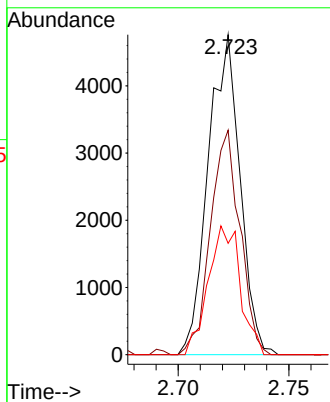
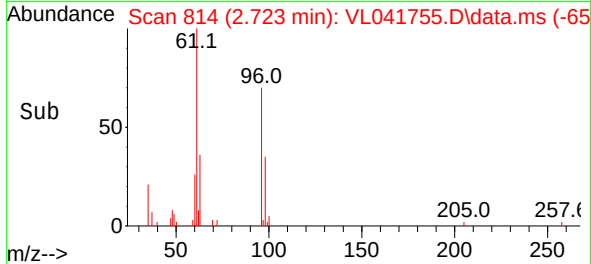
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 61 Resp: 4758
Ion Ratio Lower Upper
61 100
96 70.2 49.7 74.5
98 34.8 30.8 46.2

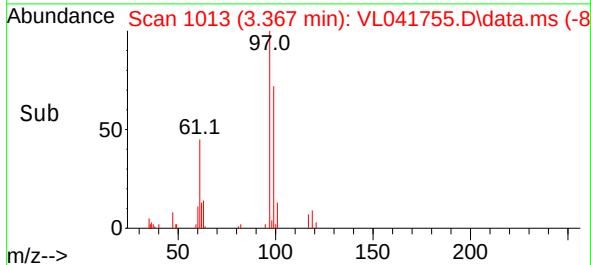
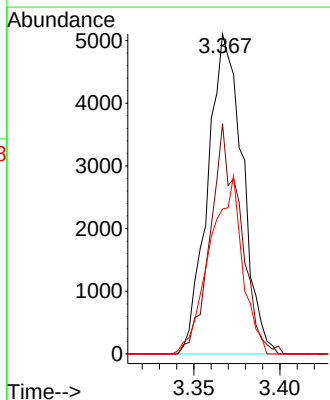
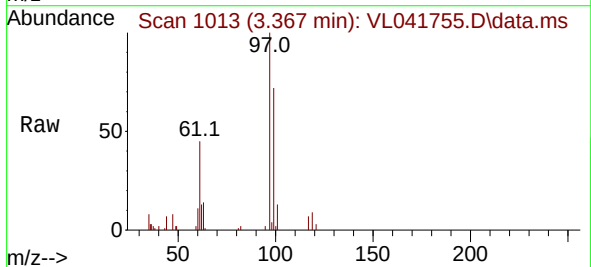
Manual Integrations
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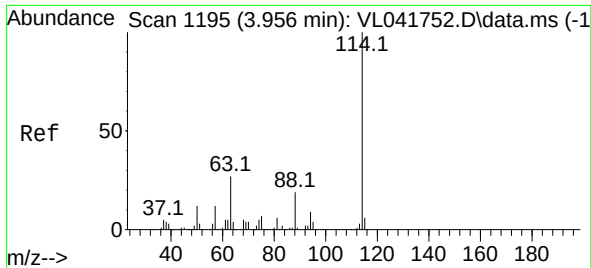
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#32
1,1,1-Trichloroethane
Concen: 0.518 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

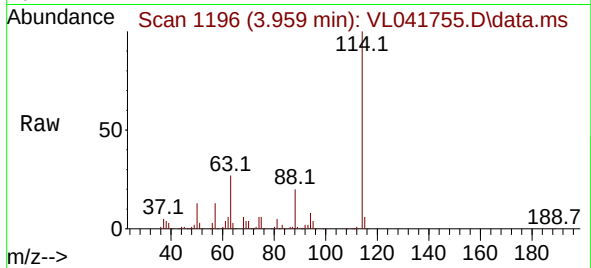
Tgt Ion: 97 Resp: 7182
Ion Ratio Lower Upper
97 100
99 62.2 51.0 76.4
61 52.1 42.2 63.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

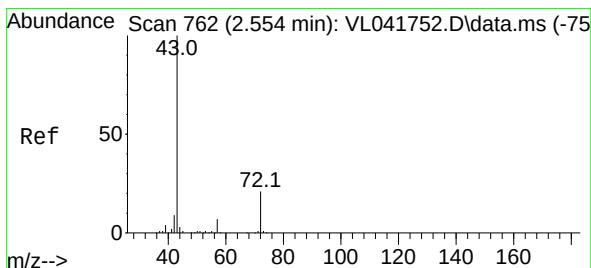
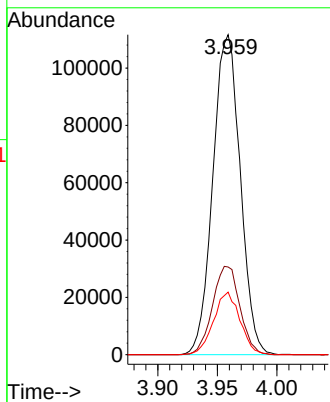
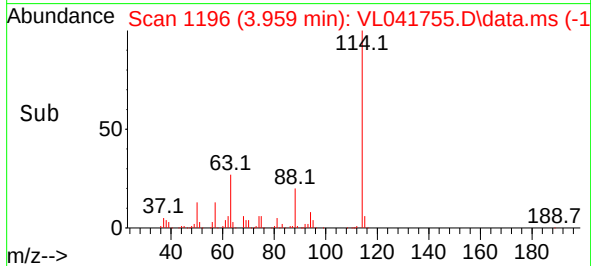
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 114 Resp: 17845
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.8
88 18.9 14.8 22.2

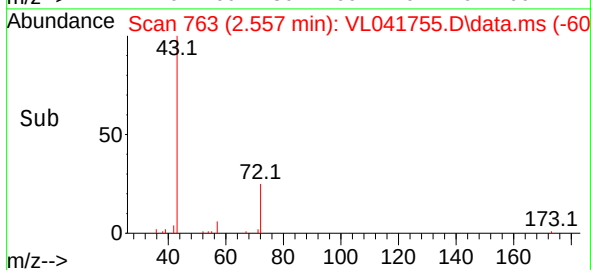
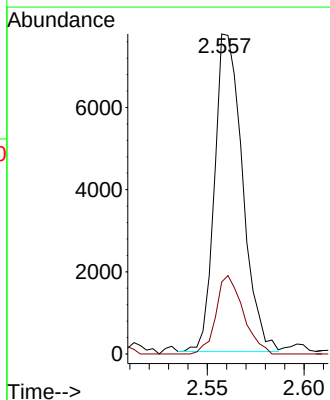
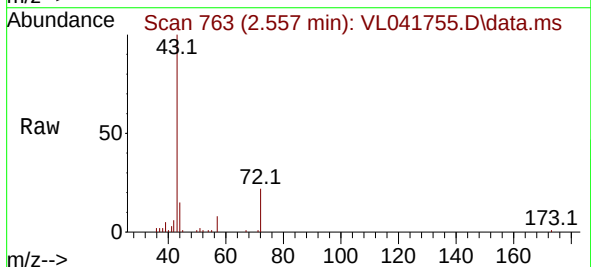
Manual Integrations
APPROVED

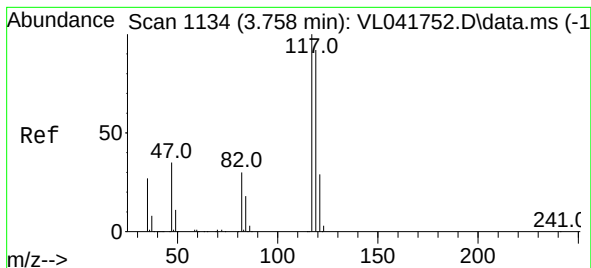
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#34
2-Butanone
Concen: 0.540 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 43 Resp: 7756
Ion Ratio Lower Upper
43 100
72 24.0 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.446 ppbv

RT: 3.765 min Scan# 1136

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

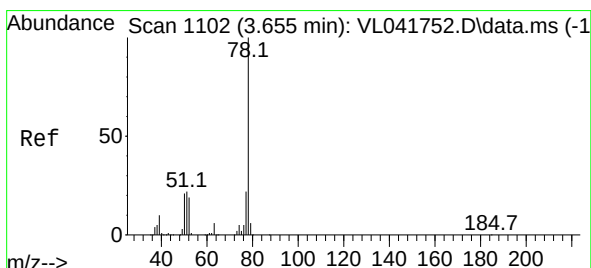
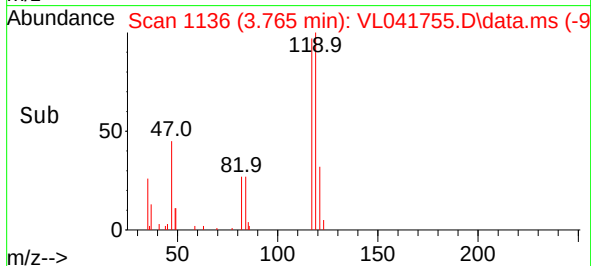
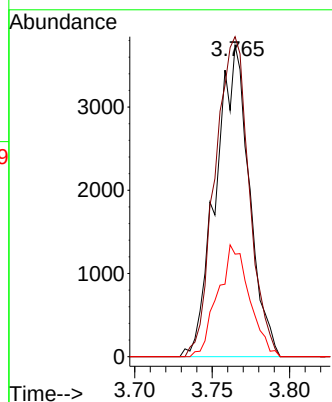
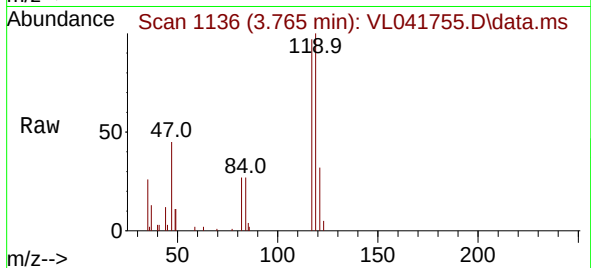
Tgt Ion:117 Resp: 565

Ion	Ratio	Lower	Upper
117	100		
119	102.7	73.7	110.5
121	32.9	23.0	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#36

Benzene

Concen: 0.522 ppbv

RT: 3.658 min Scan# 1103

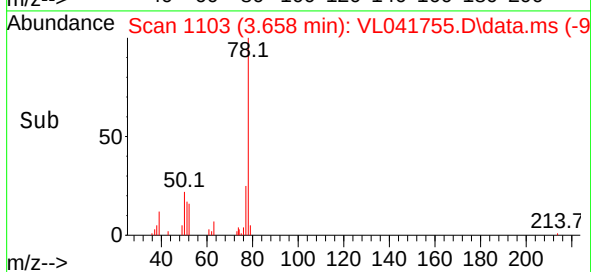
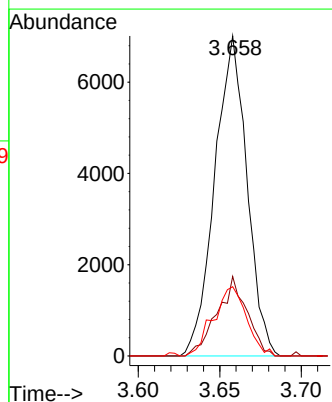
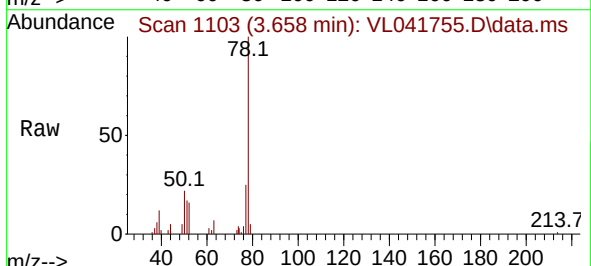
Delta R.T. 0.003 min

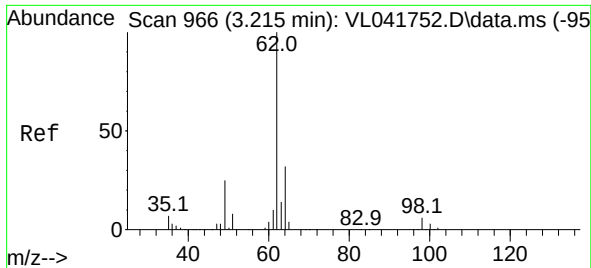
Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion: 78 Resp: 9629

Ion	Ratio	Lower	Upper
78	100		
77	24.8	17.8	26.6
50	21.7	17.2	25.8





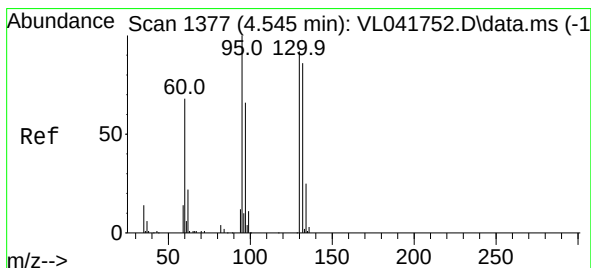
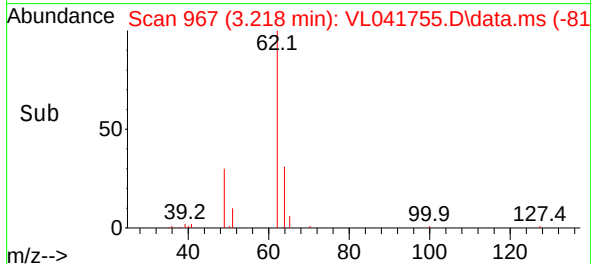
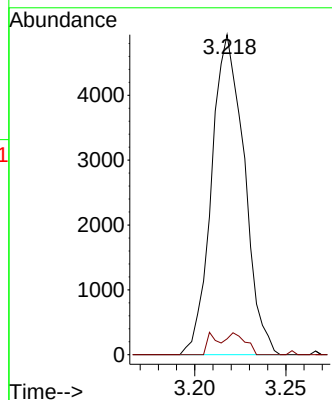
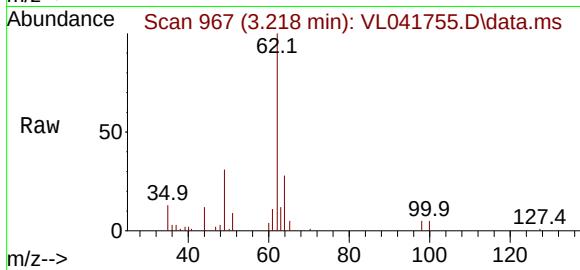
#37
1,2-Dichloroethane
Concen: 0.536 ppbv
RT: 3.218 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 615
Ion Ratio Lower Upper
62 100
98 6.3 4.7 7.1

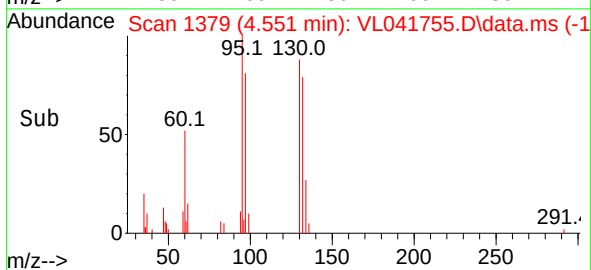
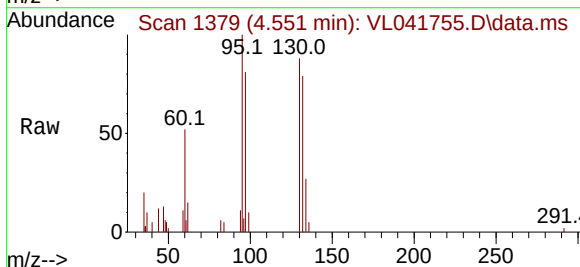
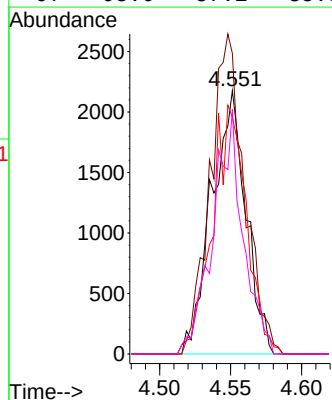
Manual Integrations
APPROVED

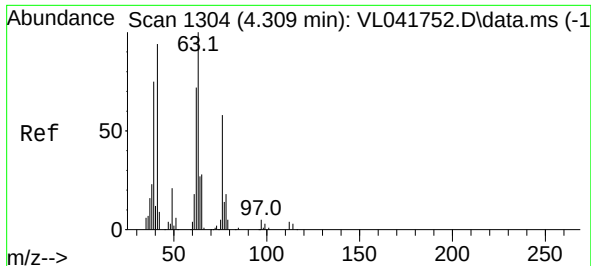
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38
Trichloroethene
Concen: 0.468 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

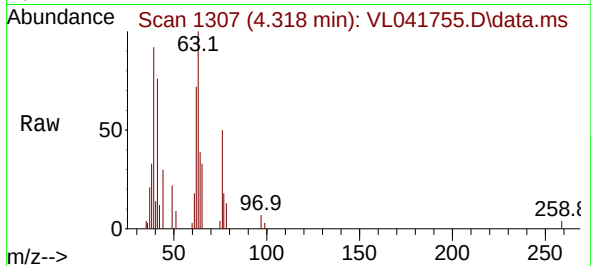
Tgt Ion:130 Resp: 3637
Ion Ratio Lower Upper
130 100
95 114.3 87.0 130.6
132 90.0 75.0 112.6
97 93.0 57.2 85.8#





#39
1,2-Dichloropropane
Concen: 0.511 ppbv m
RT: 4.318 min Scan# 1307
Delta R.T. 0.010 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

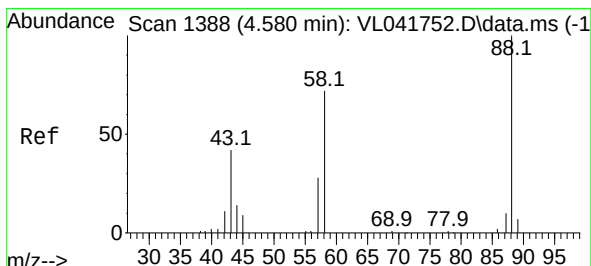
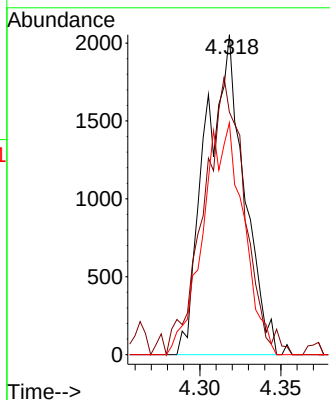
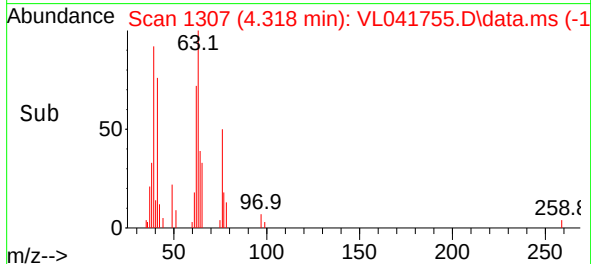
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 63 Resp: 3410
Ion Ratio Lower Upper
63 100
41 75.8 75.3 112.9
62 72.4 57.3 85.9

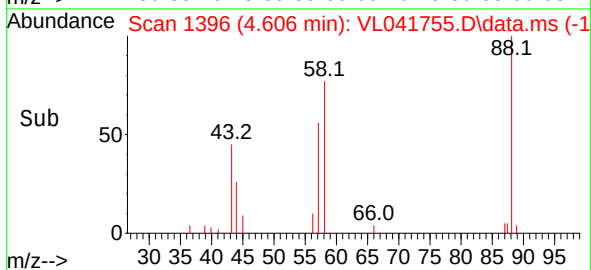
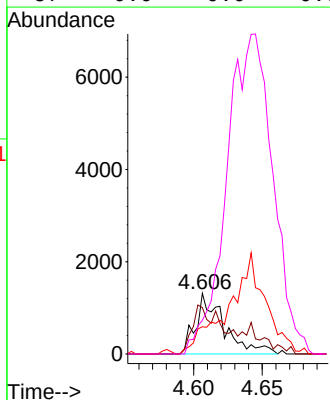
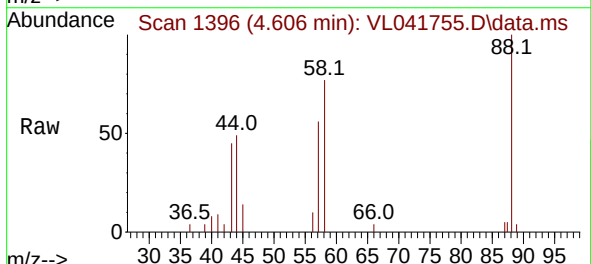
Manual Integrations
APPROVED

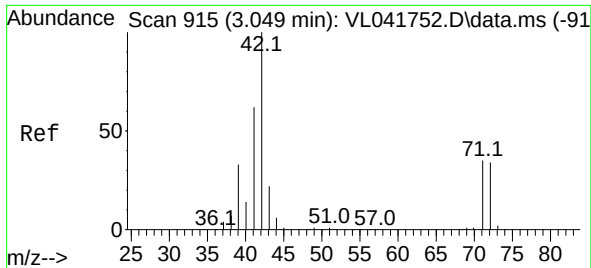
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#40
1,4-Dioxane
Concen: 0.580 ppbv m
RT: 4.606 min Scan# 1396
Delta R.T. 0.026 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 88 Resp: 1892
Ion Ratio Lower Upper
88 100
58 0.0 61.0 91.6#
43 0.0 29.4 44.0#
57 0.0 0.0 0.0





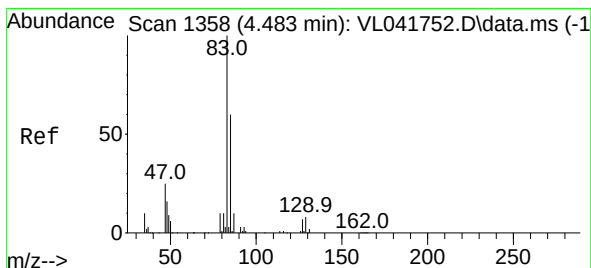
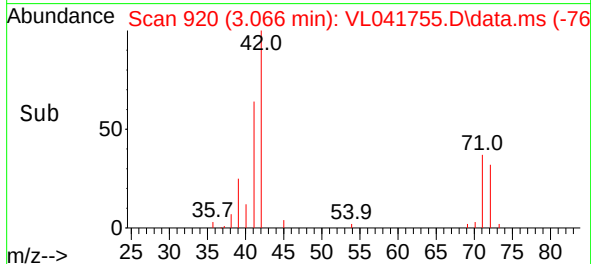
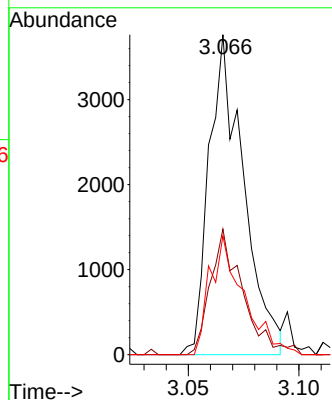
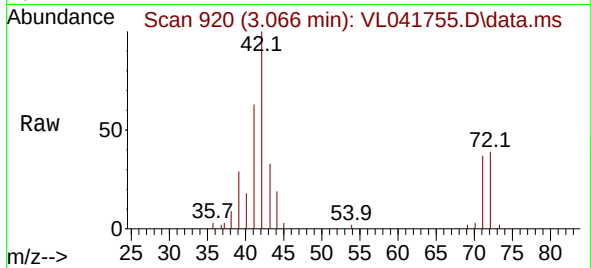
#41
Tetrahydrofuran
Concen: 0.505 ppbv
RT: 3.066 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 42 Resp: 406
Ion Ratio Lower Upper
42 100
72 37.0 29.1 43.7
71 36.5 28.4 42.6

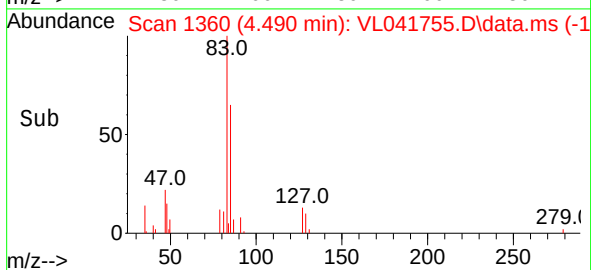
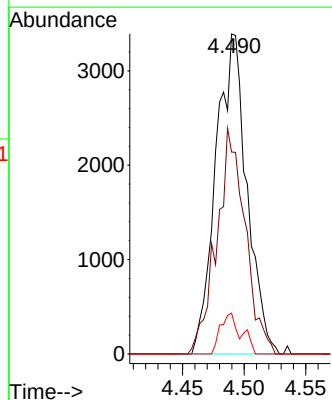
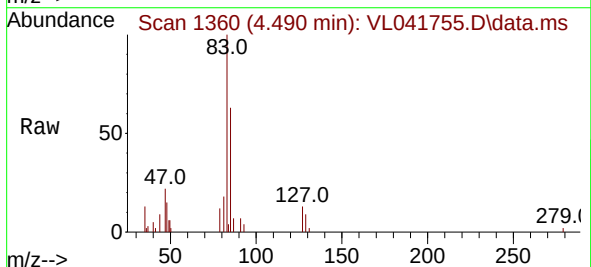
Manual Integrations
APPROVED

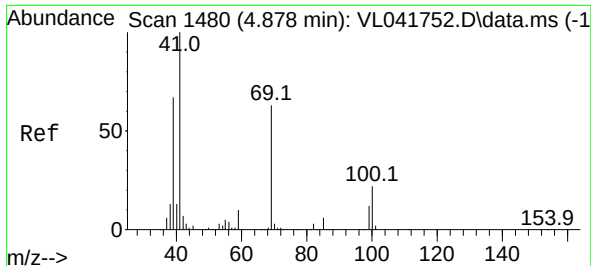
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#42
Bromodichloromethane
Concen: 0.448 ppbv m
RT: 4.490 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

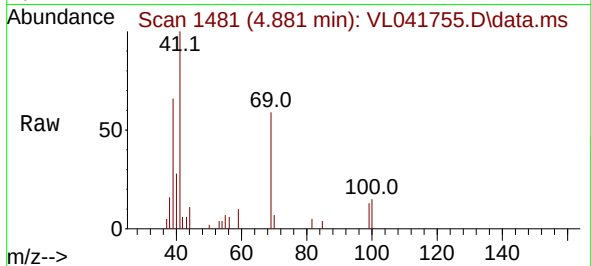
Tgt Ion: 83 Resp: 5926
Ion Ratio Lower Upper
83 100
85 63.1 48.0 72.0
127 12.7 5.8 8.8#





#43
Methyl Methacrylate
Concen: 0.472 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

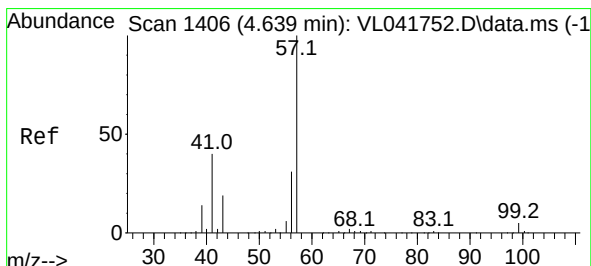
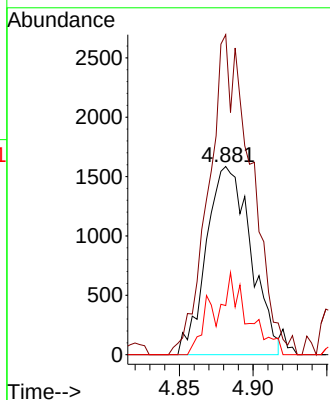
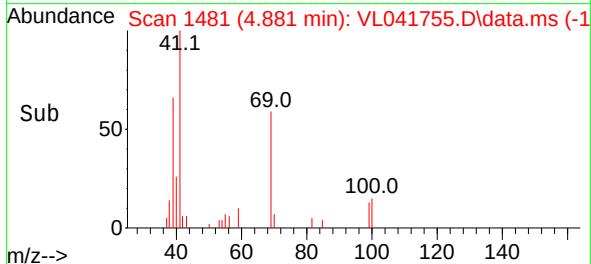
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



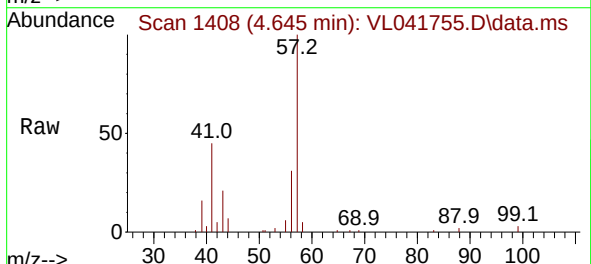
Tgt Ion: 69 Resp: 332
Ion Ratio Lower Upper
69 100
41 163.7 130.3 195.5
100 33.2 28.3 42.5

Manual Integrations
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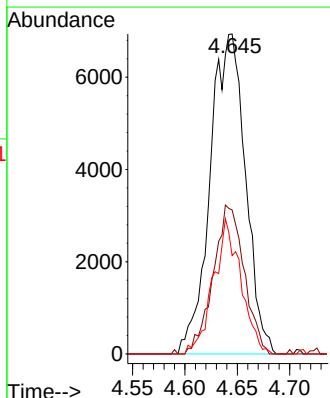
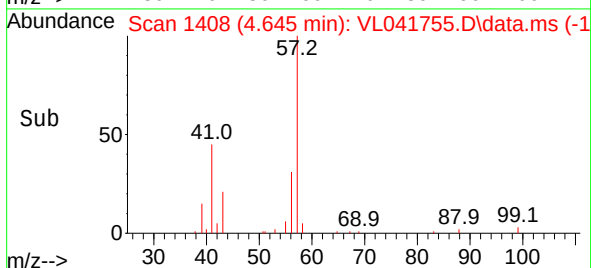
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

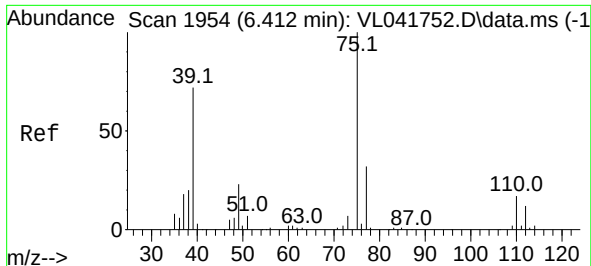


#44
2,2,4-Trimethylpentane
Concen: 0.517 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05



Tgt Ion: 57 Resp: 16294
Ion Ratio Lower Upper
57 100
41 0.0 30.7 46.1#
56 0.0 25.4 38.0#





#45

t-1,3-Dichloropropene

Concen: 0.468 ppbv m

RT: 6.422 min Scan# 1954

Delta R.T. 0.010 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 75 Resp: 3400

Ion Ratio Lower Upper

75 100

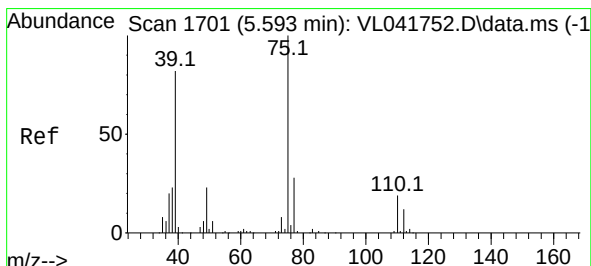
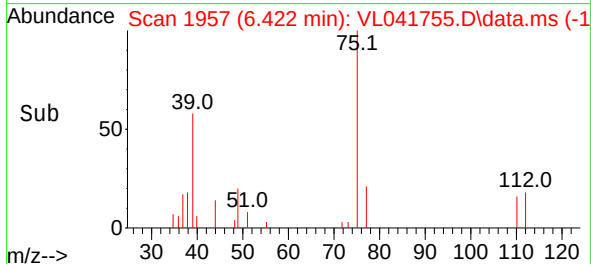
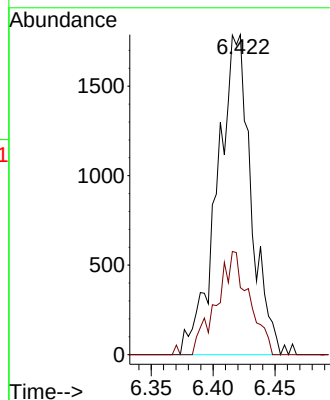
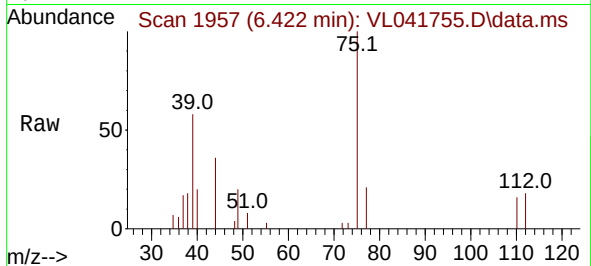
77 20.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#46

cis-1,3-Dichloropropene

Concen: 0.483 ppbv m

RT: 5.597 min Scan# 1702

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

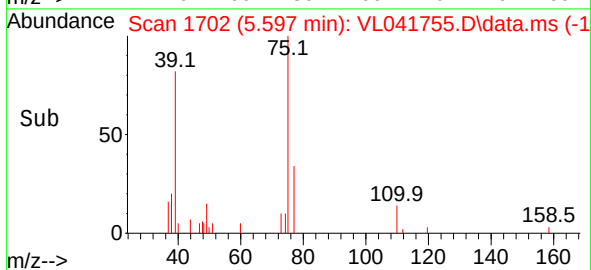
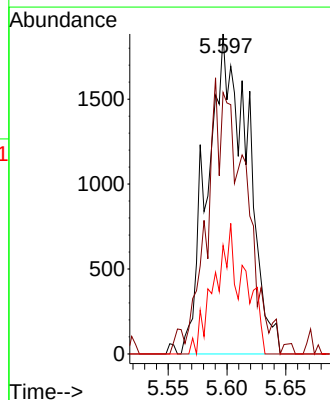
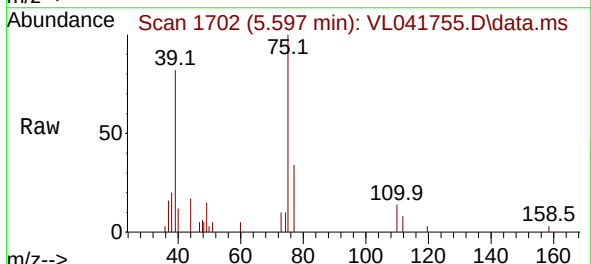
Tgt Ion: 75 Resp: 4462

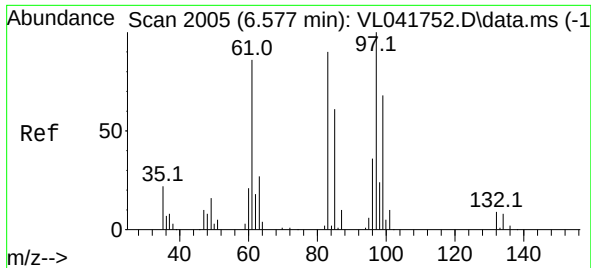
Ion Ratio Lower Upper

75 100

39 81.7 65.2 97.8

77 33.9 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 0.521 ppbv m

RT: 6.587 min Scan# 2005

Delta R.T. 0.010 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 363

Ion Ratio Lower Upper

97 100

83 69.7 72.3 108.5

85 51.4 48.5 72.7

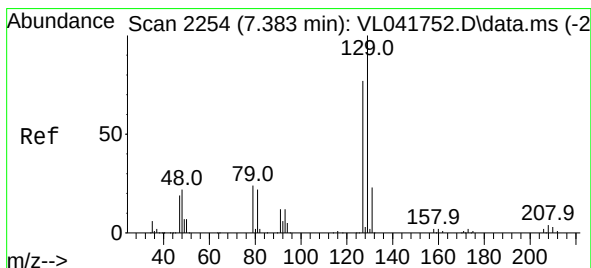
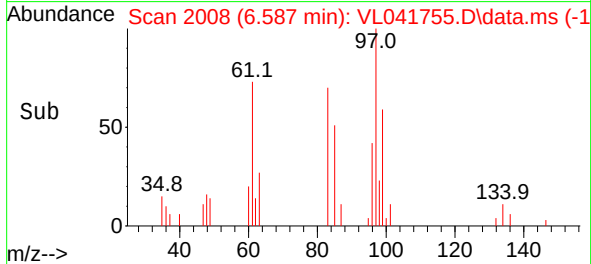
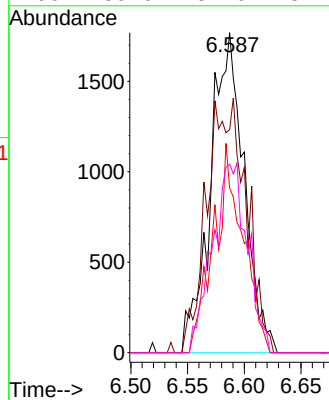
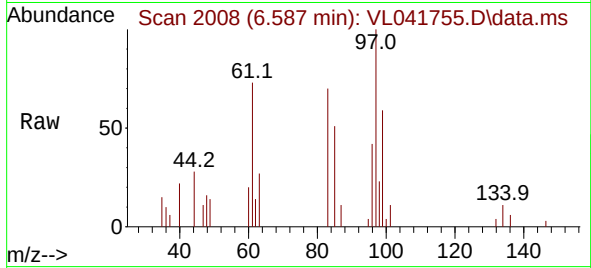
99 59.0 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#48

Dibromochloromethane

Concen: 0.406 ppbv

RT: 7.387 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL041755.D

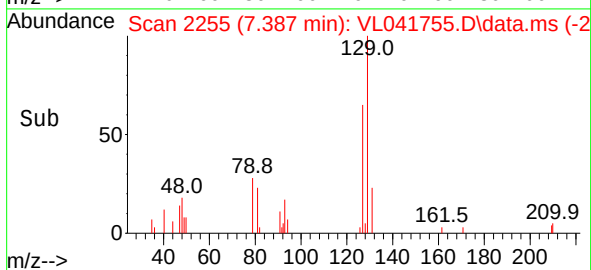
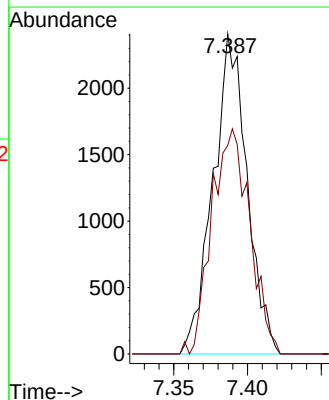
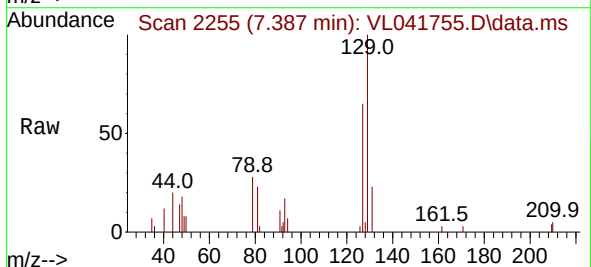
Acq: 16 Dec 2024 15:05

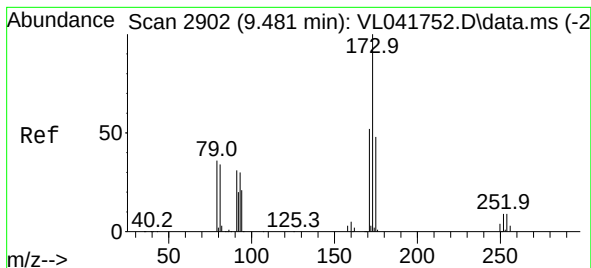
Tgt Ion:129 Resp: 3865

Ion Ratio Lower Upper

129 100

127 78.8 38.8 116.3





#49

Bromoform

Concen: 0.376 ppbv m

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

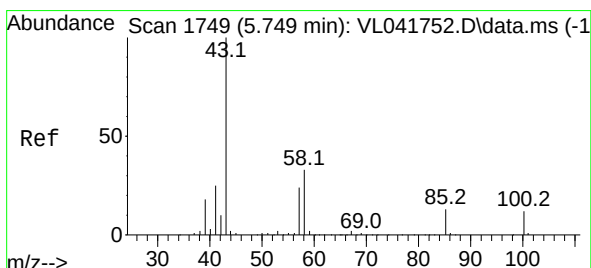
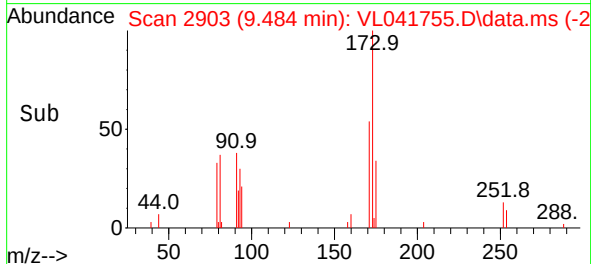
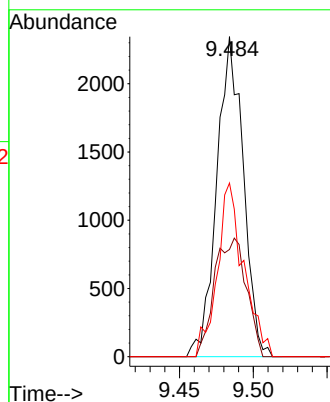
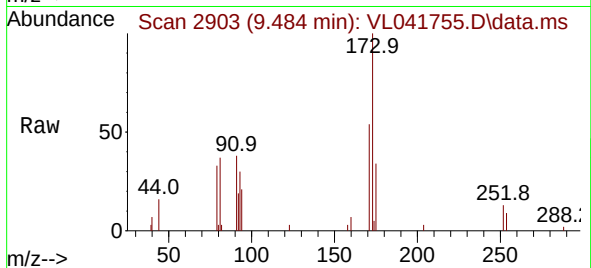
VSTDICC0.5

Tgt Ion:	173	Resp:	2928
Ion Ratio	Lower	Upper	
173	100		
175	44.6	38.2	57.2
171	54.1	41.1	61.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#50

4-Methyl-2-Pentanone

Concen: 0.485 ppbv m

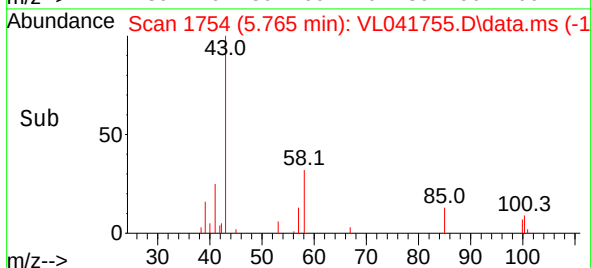
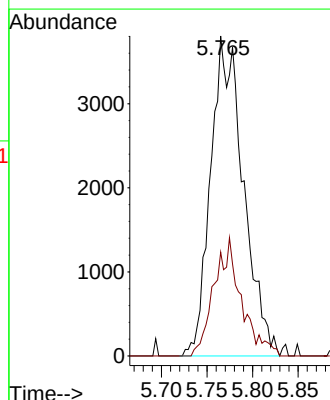
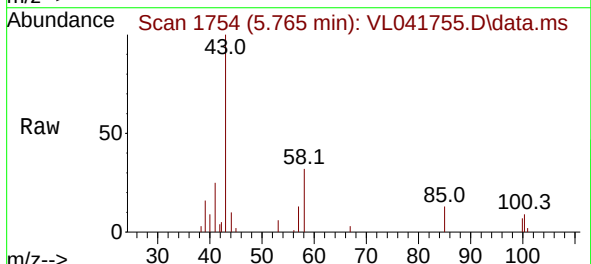
RT: 5.765 min Scan# 1754

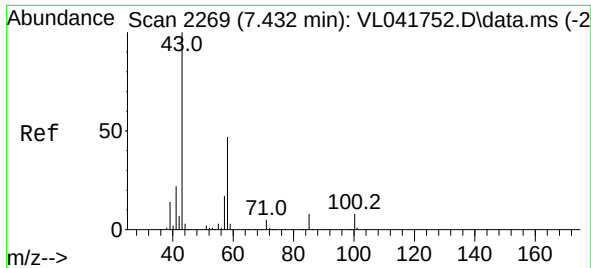
Delta R.T. 0.016 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:	43	Resp:	9479
Ion Ratio	Lower	Upper	
43	100		
58	0.0	26.8	40.2#





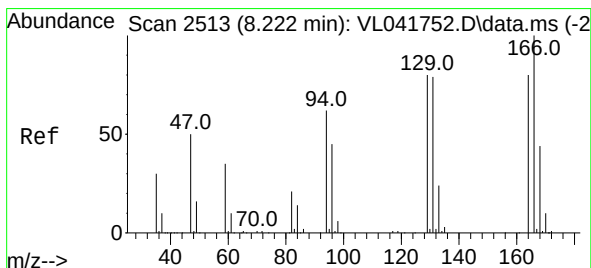
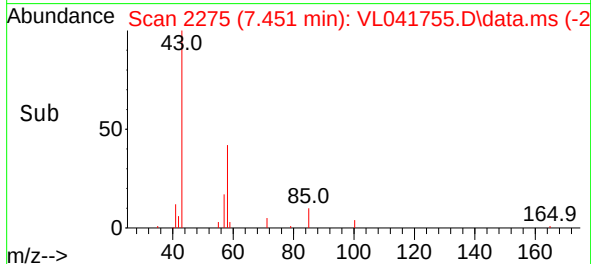
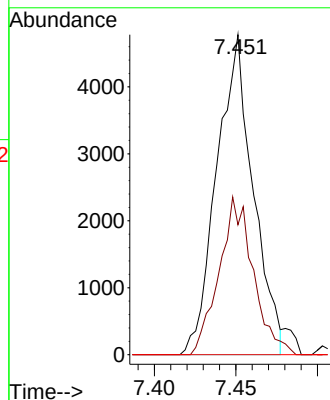
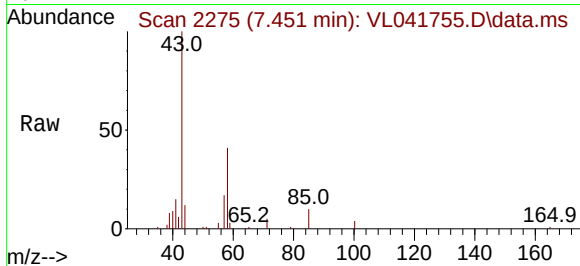
#51
2-Hexanone
Concen: 0.468 ppbv
RT: 7.451 min Scan# 2114
Delta R.T. 0.019 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 7412
Ion Ratio Lower Upper
43 100
58 46.2 36.6 55.0
98 0.0 0.1 0.1

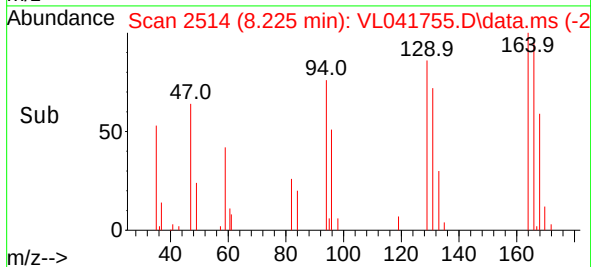
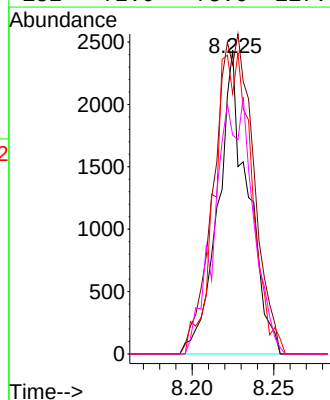
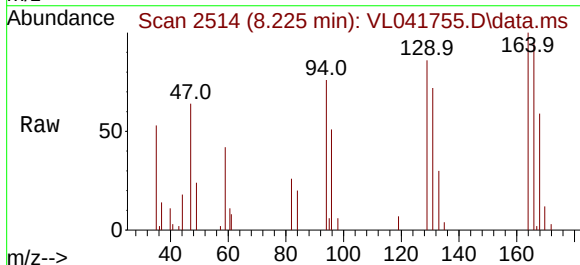
Manual Integrations
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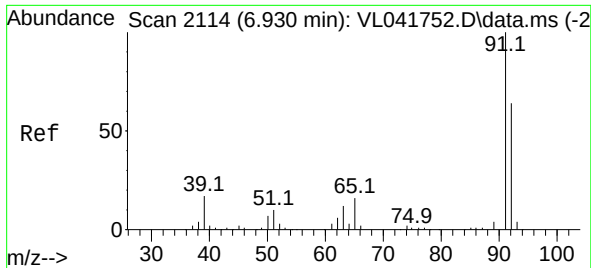
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#52
Tetrachloroethene
Concen: 0.450 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion:164 Resp: 3091
Ion Ratio Lower Upper
164 100
166 95.1 99.8 149.6#
129 85.6 79.6 119.4
131 72.0 78.6 117.8#





#53

Toluene

Concen: 0.504 ppbv

RT: 6.933 min Scan# 2114

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 1055

Ion Ratio Lower Upper

91 100

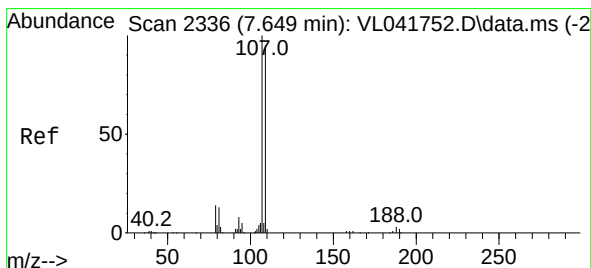
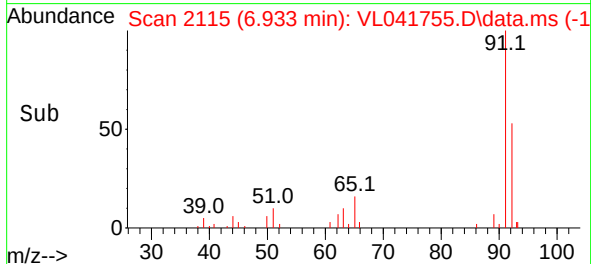
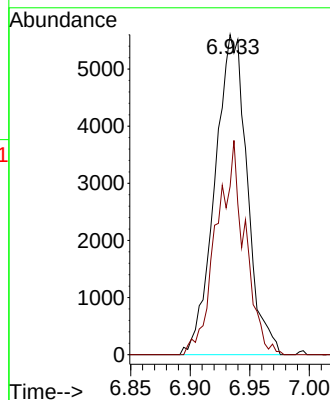
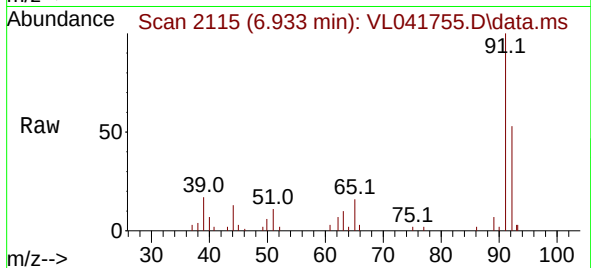
92 59.2 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 0.502 ppbv m

RT: 7.658 min Scan# 2339

Delta R.T. 0.010 min

Lab File: VL041755.D

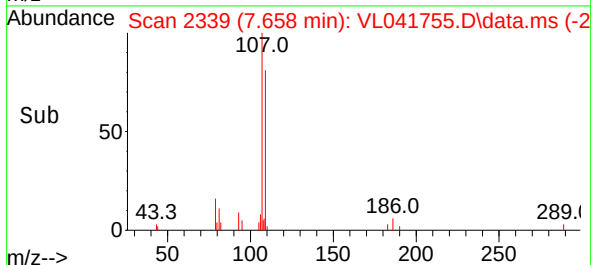
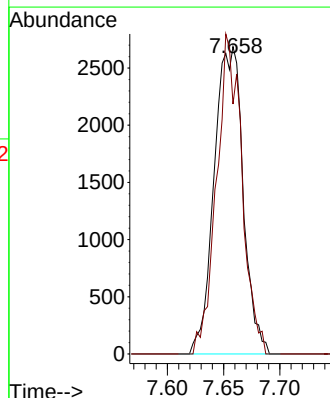
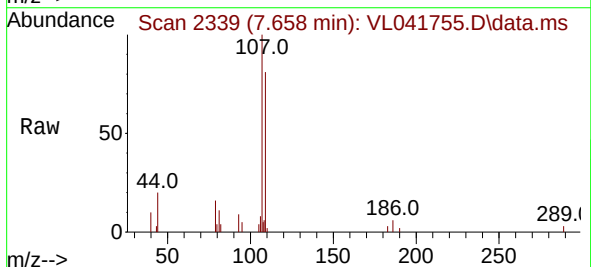
Acq: 16 Dec 2024 15:05

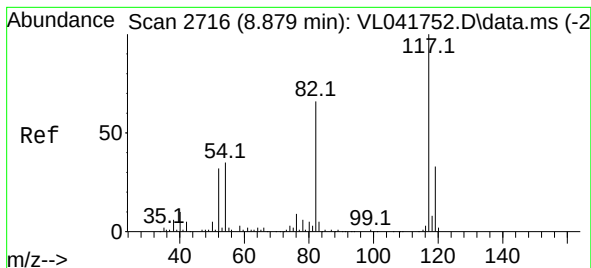
Tgt Ion:107 Resp: 4819

Ion Ratio Lower Upper

107 100

109 81.3 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

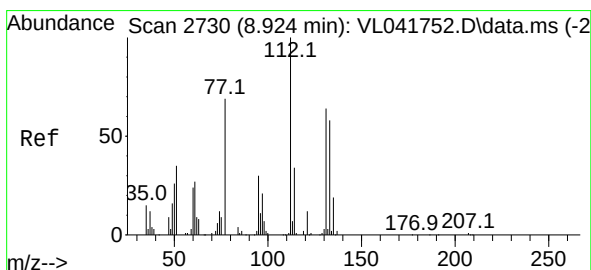
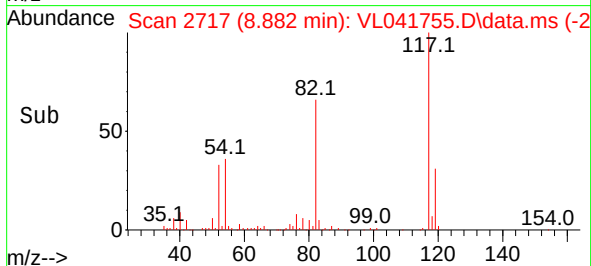
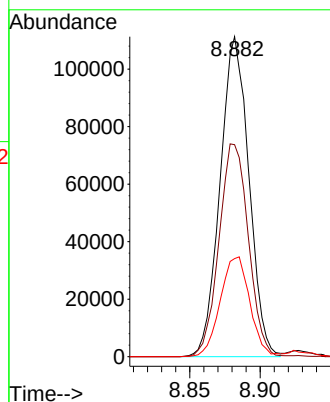
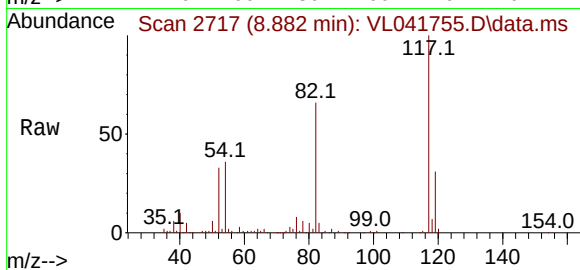
VSTDIC0.5

Tgt Ion:117 Resp: 15857
 Ion Ratio Lower Upper
 117 100
 82 68.1 53.8 80.8
 119 33.6 26.7 40.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 0.459 ppbv m

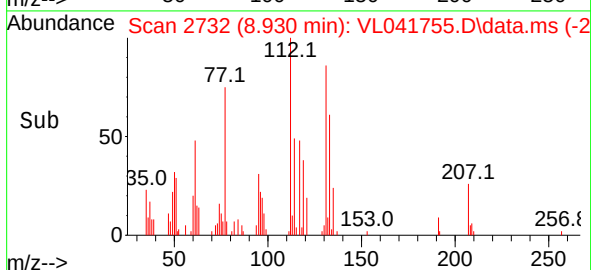
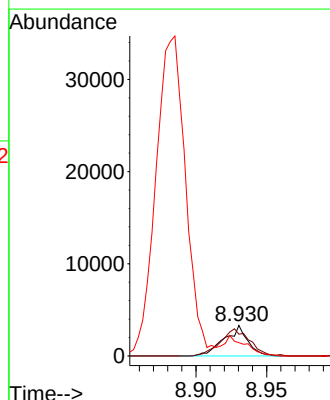
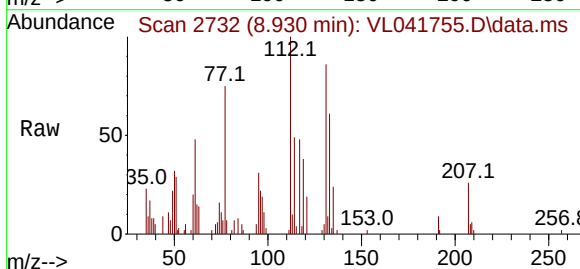
RT: 8.930 min Scan# 2732

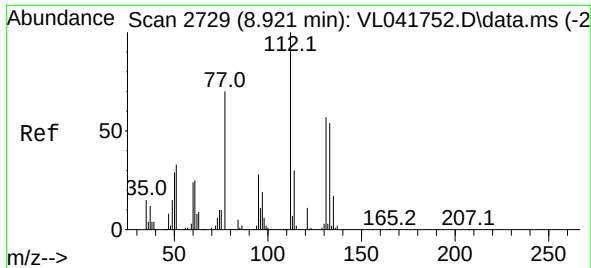
Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:131 Resp: 3858
 Ion Ratio Lower Upper
 131 100
 133 110.1 76.8 115.2
 119 0.0 49.0 73.6#





#57

Chlorobenzene

Concen: 0.514 ppbv m

RT: 8.927 min Scan# 2729

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

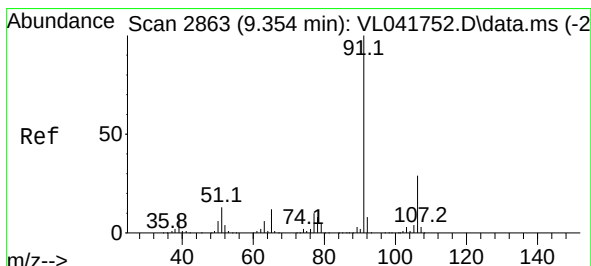
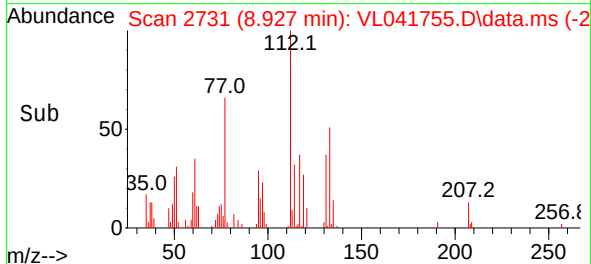
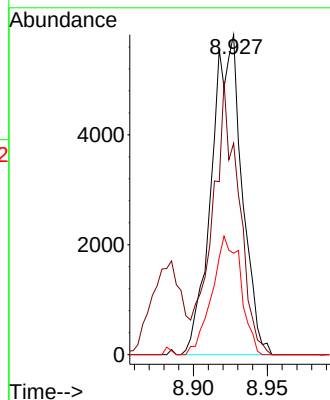
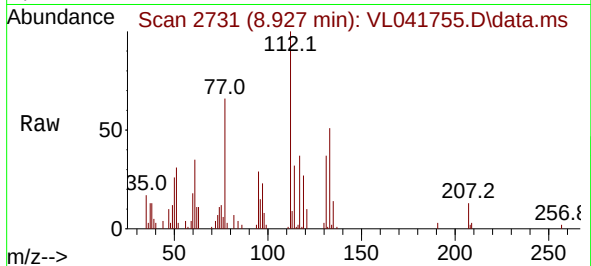
VSTDIC0.5

Tgt Ion:	112	Resp:	8340
Ion Ratio	Lower	Upper	
112	100		
77	66.1	57.4	86.0
114	31.7	27.4	33.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#58

Ethyl Benzene

Concen: 0.470 ppbv

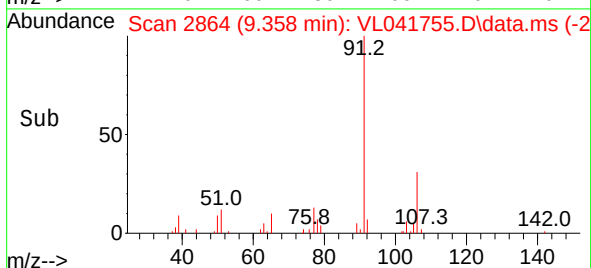
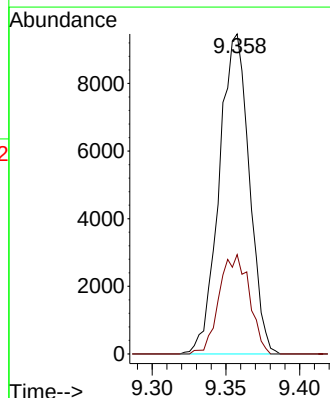
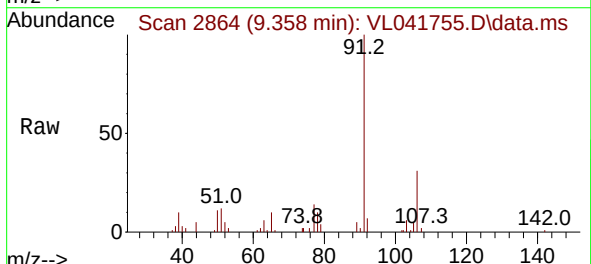
RT: 9.358 min Scan# 2864

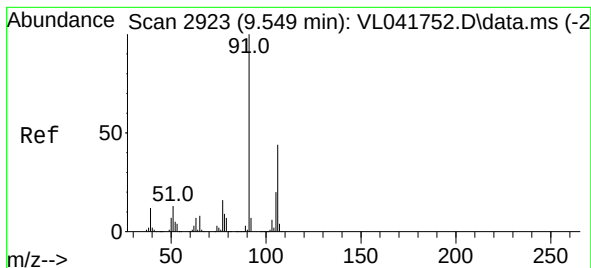
Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:	91	Resp:	13428
Ion Ratio	Lower	Upper	
91	100		
106	31.0	23.5	35.3





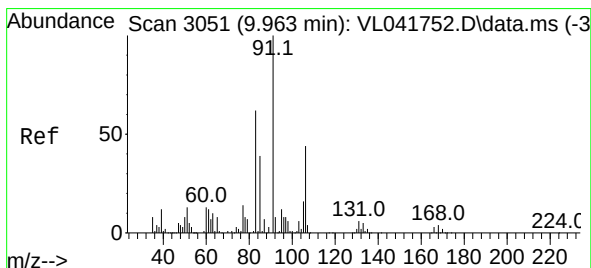
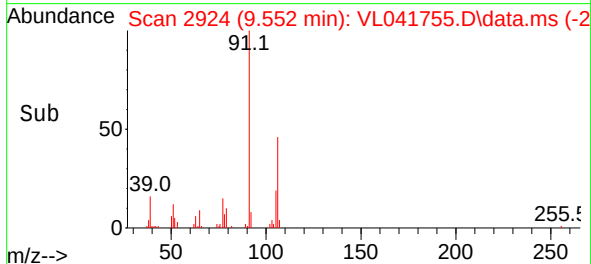
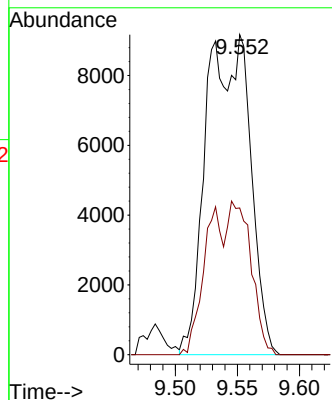
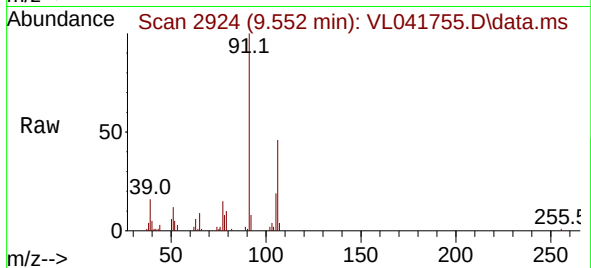
#59
m/p-Xylene
Concen: 0.983 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 22560
Ion Ratio Lower Upper
91 100
106 46.9 0.0 0.0

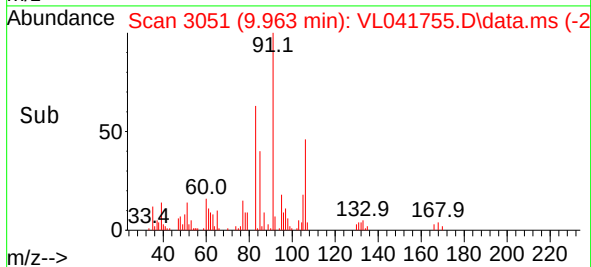
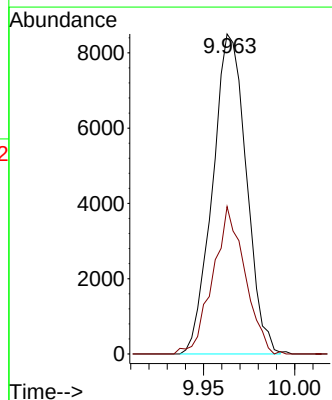
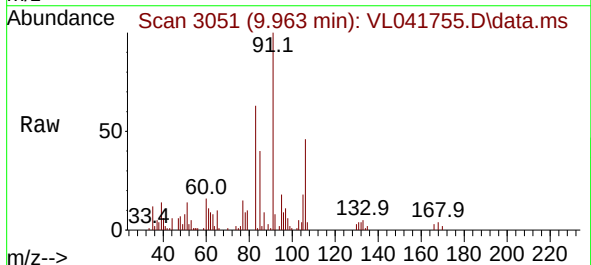
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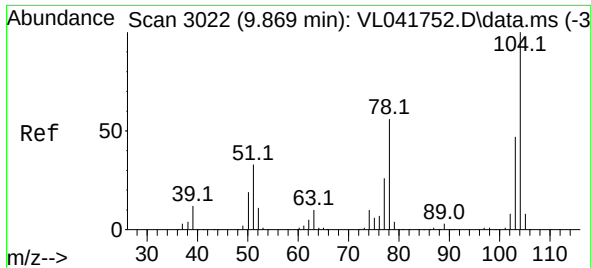
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#60
o-Xylene
Concen: 0.476 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 91 Resp: 10954
Ion Ratio Lower Upper
91 100
106 43.7 21.1 63.4





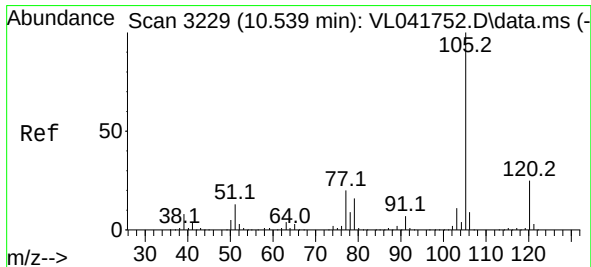
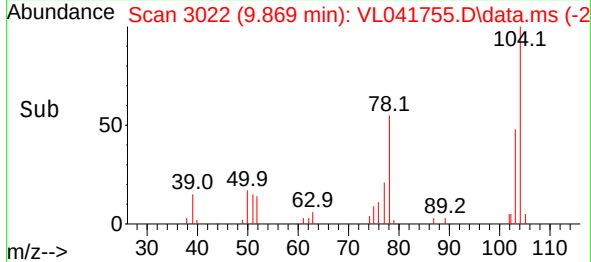
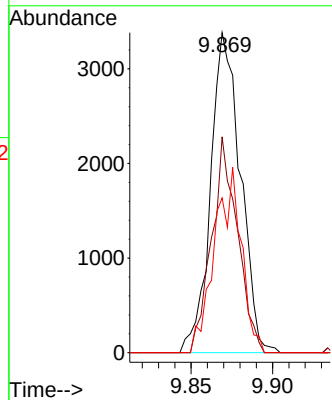
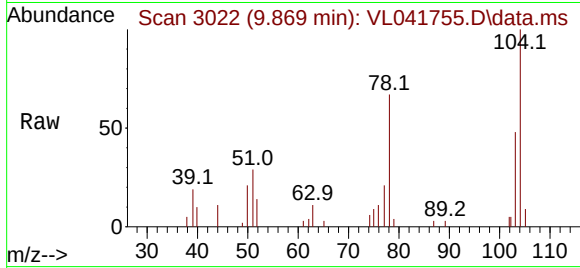
#61
Styrene
Concen: 0.433 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 4314
Ion Ratio Lower Upper
104 100
78 58.1 43.8 65.6
103 51.9 37.8 56.6

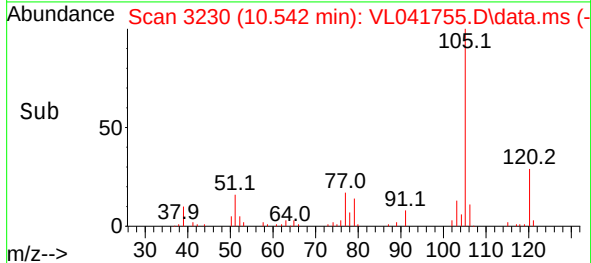
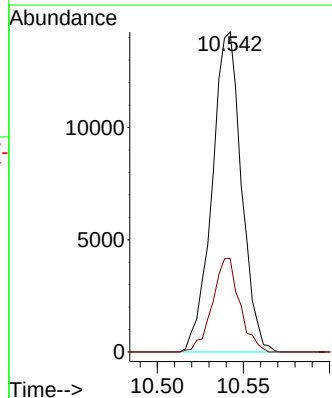
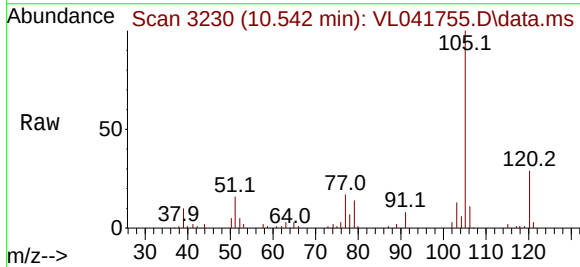
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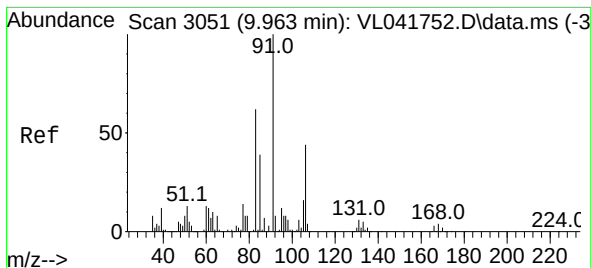
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#62
Isopropylbenzene
Concen: 0.490 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

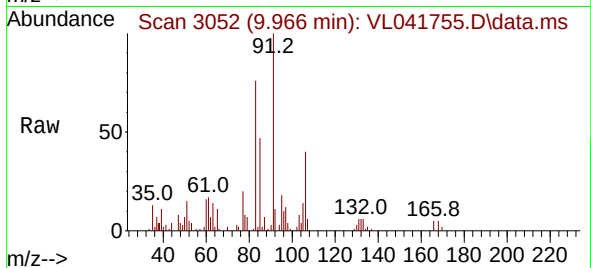
Tgt Ion:105 Resp: 16953
Ion Ratio Lower Upper
105 100
120 27.1 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

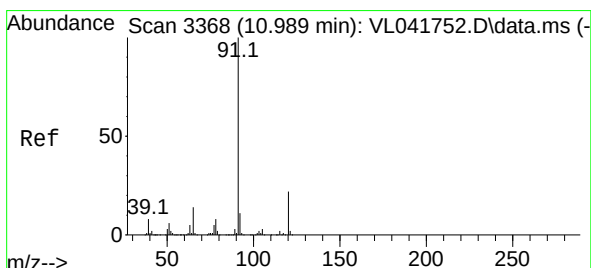
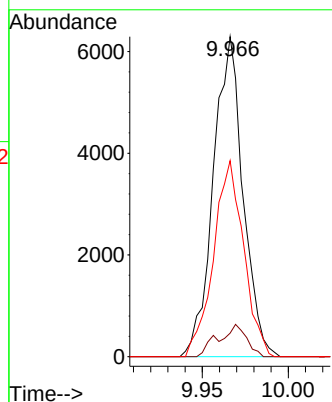
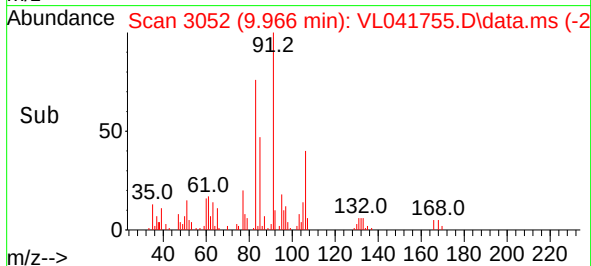
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



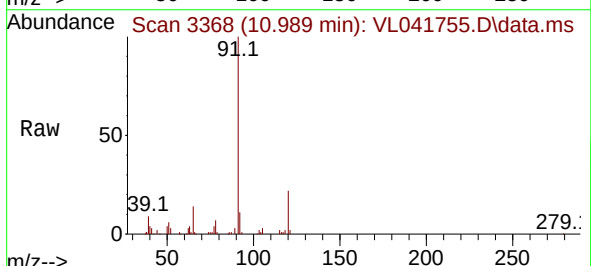
Tgt Ion: 83 Resp: 755
Ion Ratio Lower Upper
83 100
131 9.5 4.9 14.7
85 62.2 32.0 96.2

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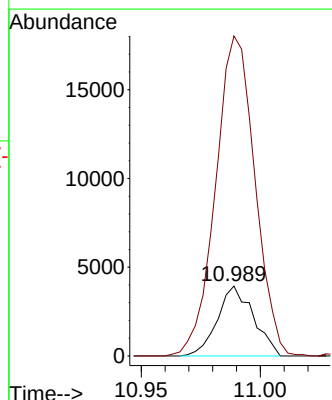
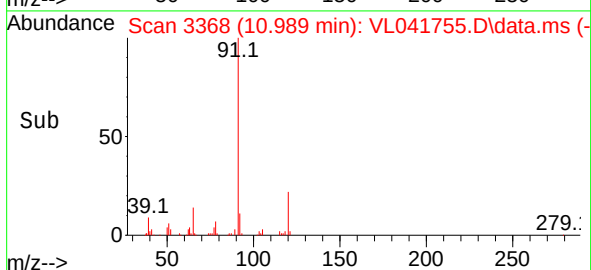
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

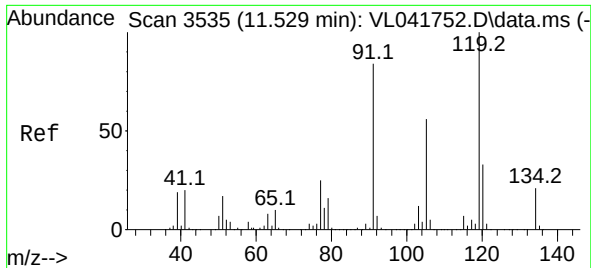


#64
n-propylbenzene
Concen: 0.472 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05



Tgt Ion:120 Resp: 4126
Ion Ratio Lower Upper
120 100
91 504.6 387.3 580.9





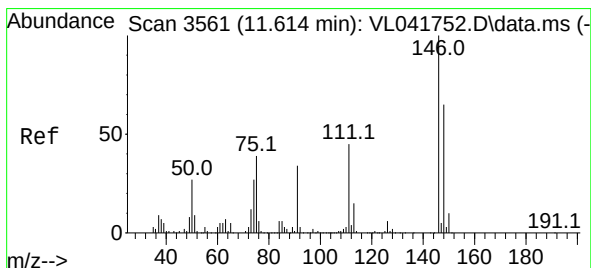
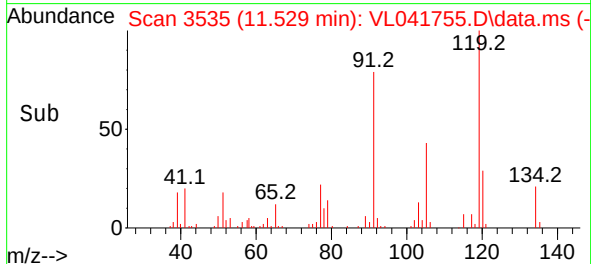
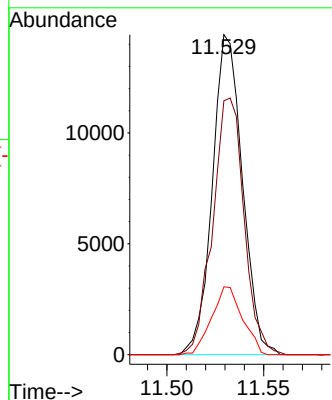
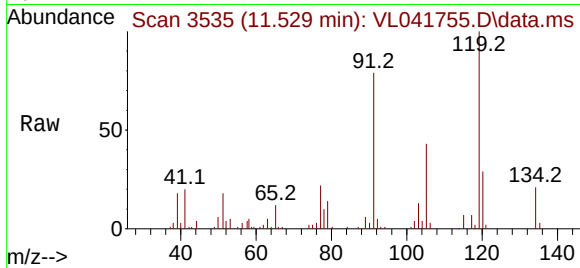
#65
tert-Butylbenzene
Concen: 0.499 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:119 Resp: 15569
Ion Ratio Lower Upper
119 100
91 83.6 67.0 100.4
134 21.8 16.5 24.7

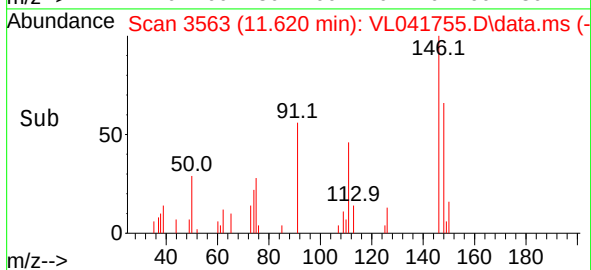
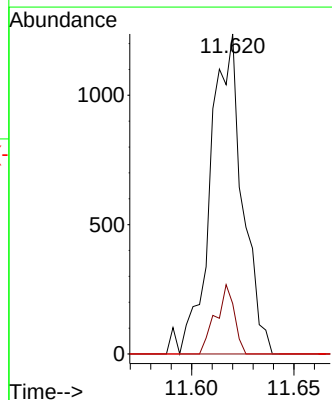
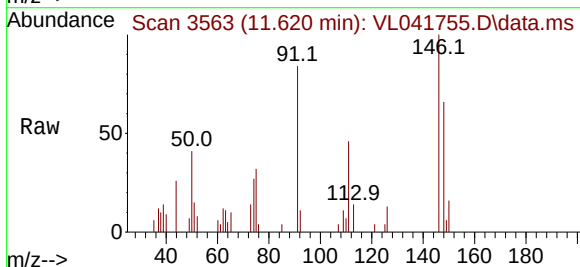
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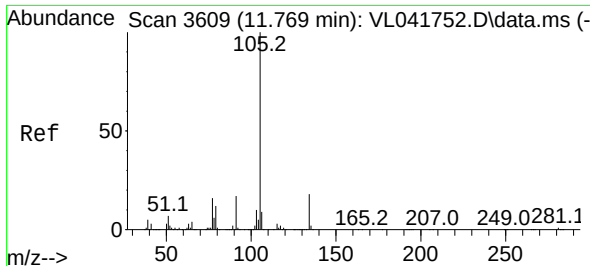
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#66
Benzyl Chloride
Concen: 0.487 ppbv m
RT: 11.620 min Scan# 3563
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 91 Resp: 1340
Ion Ratio Lower Upper
91 100
126 12.6 13.9 20.9#
128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.492 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 21263

Ion Ratio Lower Upper

105 100

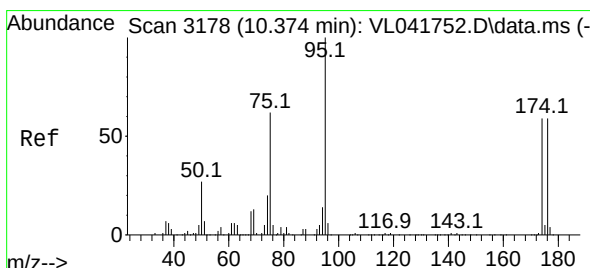
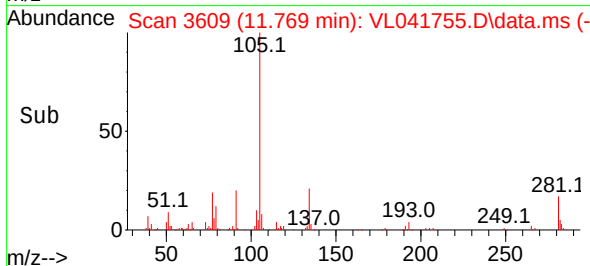
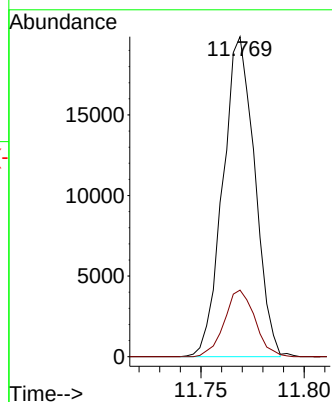
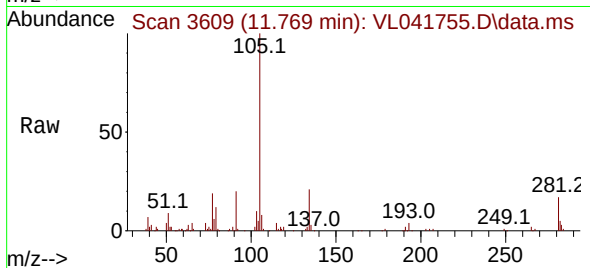
134 20.1 14.5 21.7

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 10.010 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

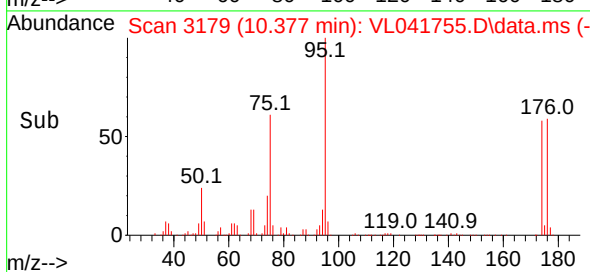
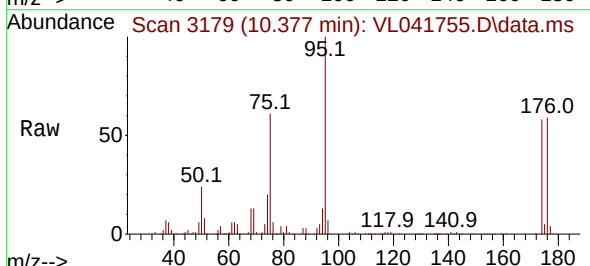
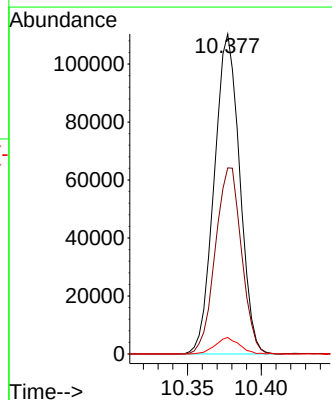
Tgt Ion: 95 Resp: 132273

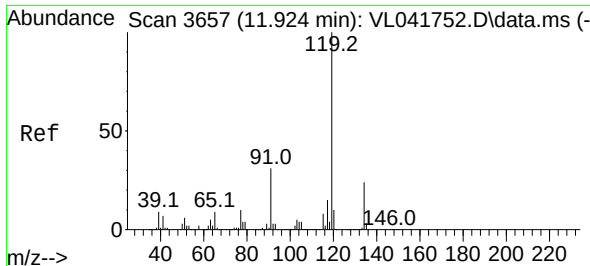
Ion Ratio Lower Upper

95 100

174 60.1 47.6 71.4

175 4.9 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.479 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

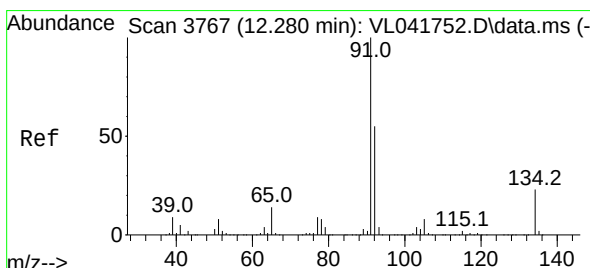
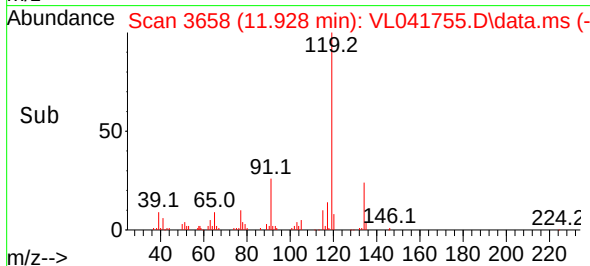
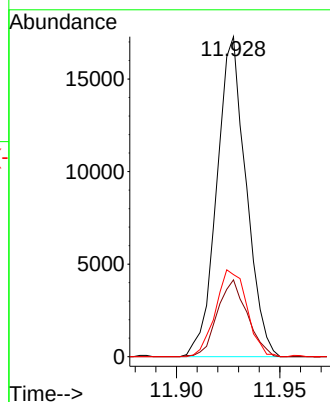
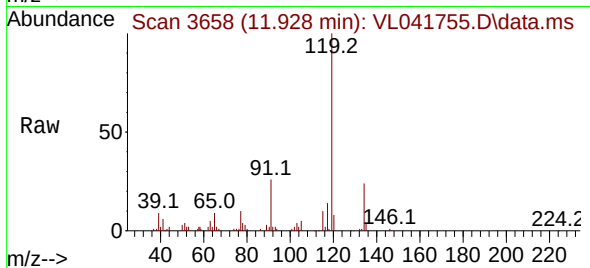
VSTDIC0.5

Tgt Ion:	119	Resp:	1704
Ion Ratio	Lower	Upper	
119	100		
134	24.5	19.6	29.4
91	29.2	24.4	36.6

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Supervised By :Mahesh Dadoda 12/20/2024



#70

n-Butylbenzene

Concen: 0.456 ppbv

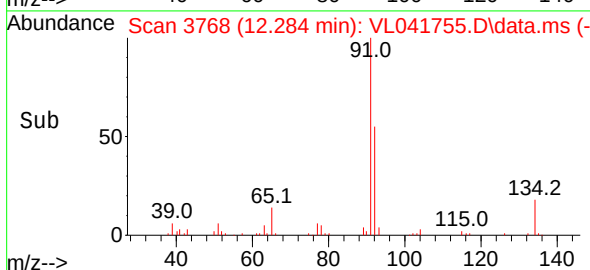
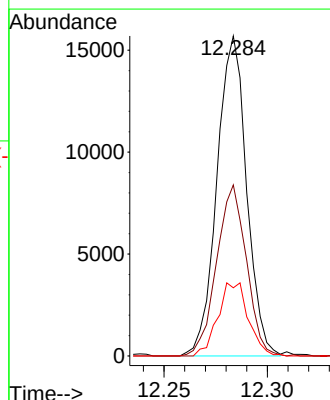
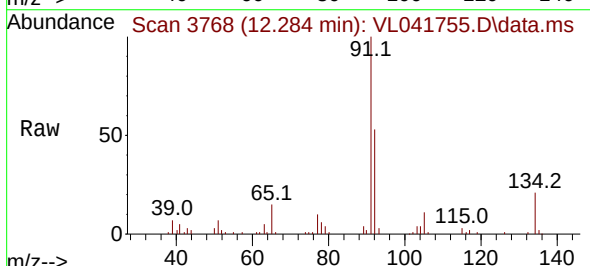
RT: 12.284 min Scan# 3768

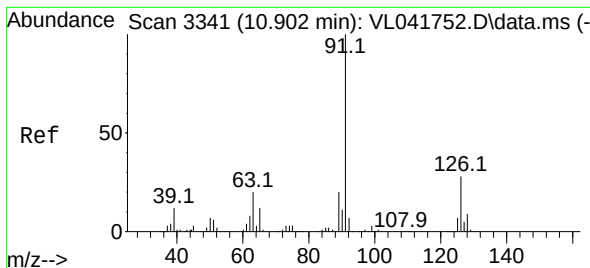
Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:	91	Resp:	15671
Ion Ratio	Lower	Upper	
91	100		
92	53.7	43.2	64.8
134	23.5	18.2	27.4





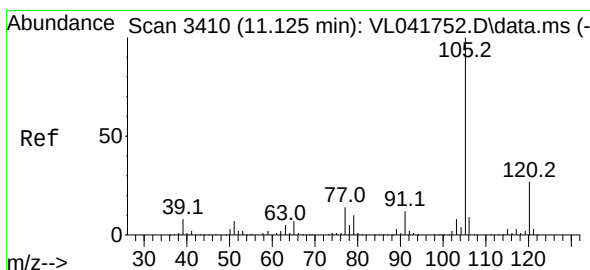
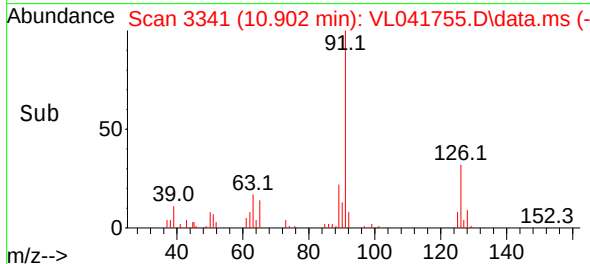
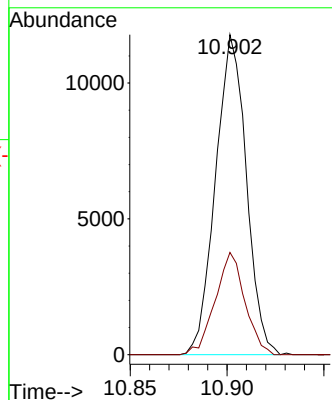
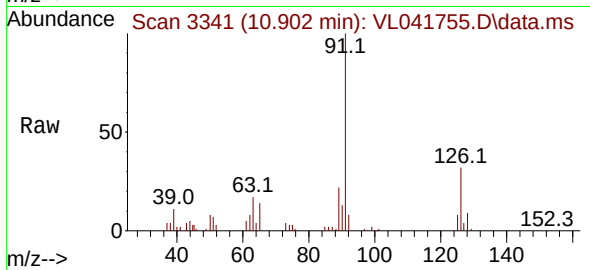
#71
2-Chlorotoluene
Concen: 0.492 ppbv
RT: 10.902 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 13000
Ion Ratio Lower Upper
91 100
126 30.8 11.6 46.4

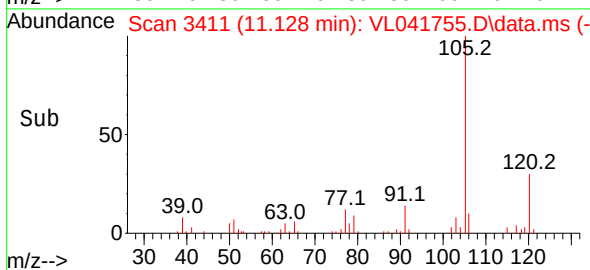
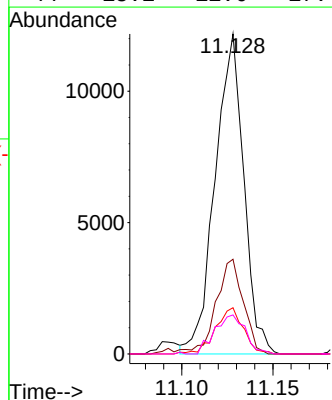
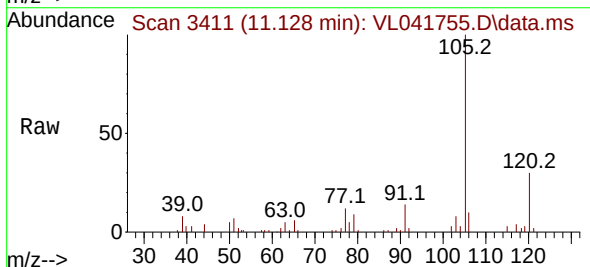
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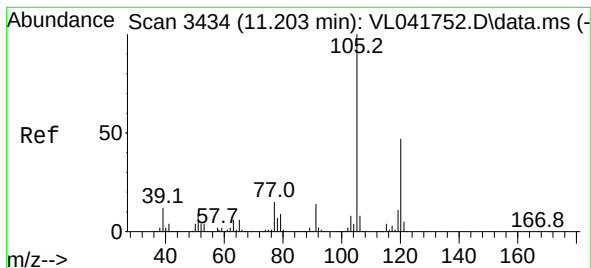
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#72
4-Ethyltoluene
Concen: 0.491 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion:105 Resp: 13324
Ion Ratio Lower Upper
105 100
120 28.7 23.3 34.9
91 14.1 10.9 16.3
77 13.1 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.466 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 1049

Ion Ratio Lower Upper

105 100

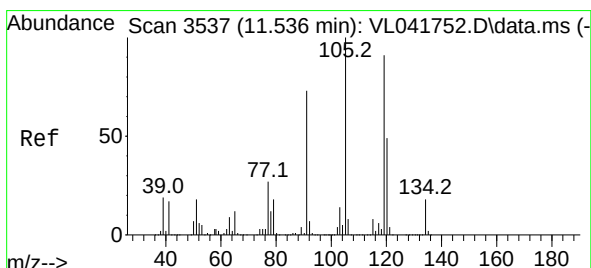
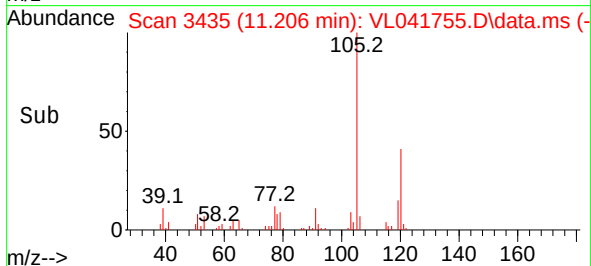
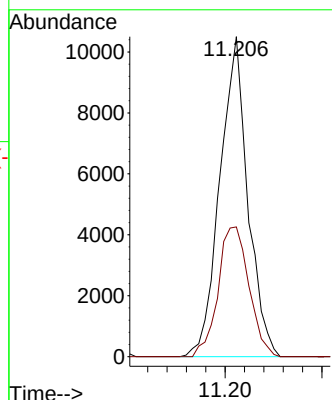
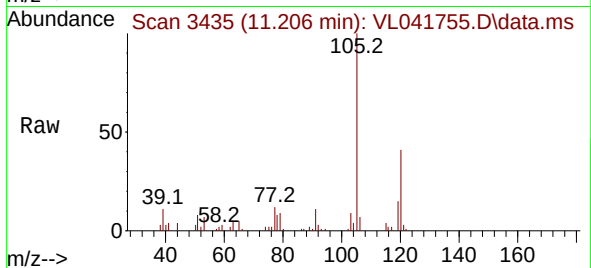
120 40.6 37.4 56.2

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.457 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:105 Resp: 11070

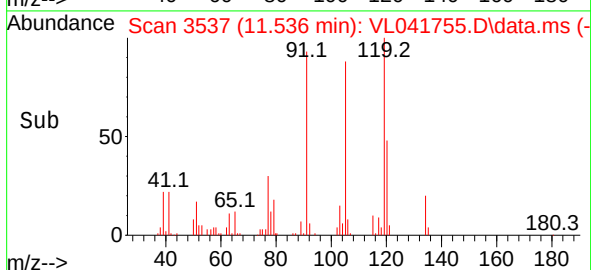
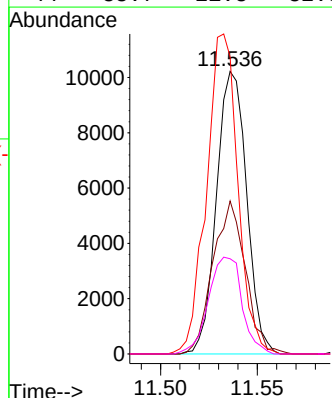
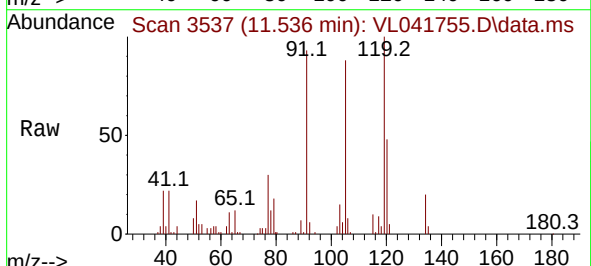
Ion Ratio Lower Upper

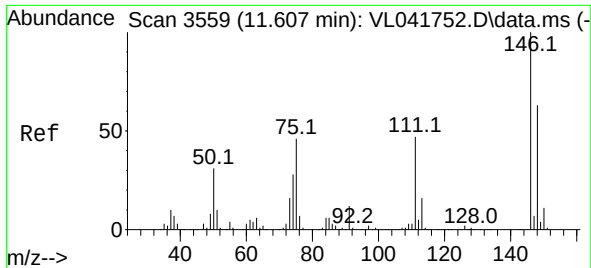
105 100

120 54.1 39.0 58.4

91 105.1 58.1 87.1#

77 33.7 21.8 32.8#





#75

1,3-Dichlorobenzene

Concen: 0.525 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

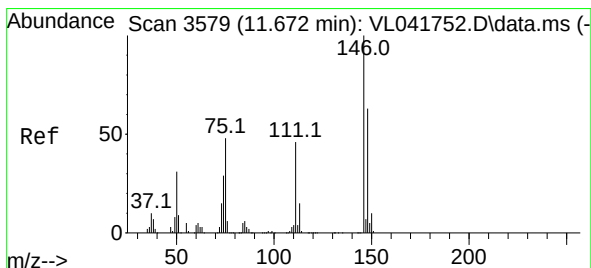
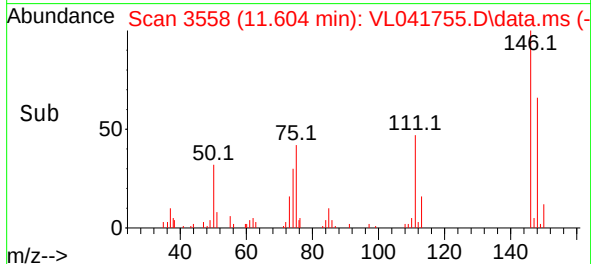
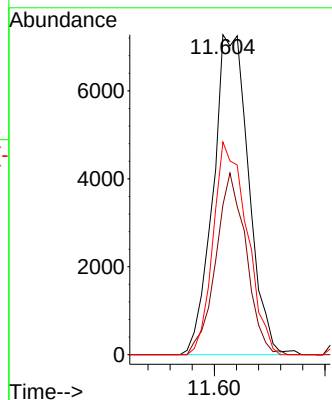
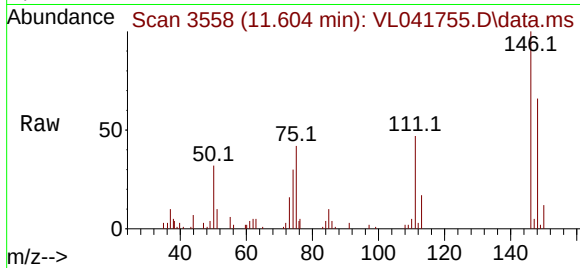
VSTDIC0.5

Tgt Ion:146	Resp:	810
Ion Ratio	Lower	Upper
146	100	
111	48.6	23.4 70.3
148	63.1	31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#76

1,4-Dichlorobenzene

Concen: 0.517 ppbv

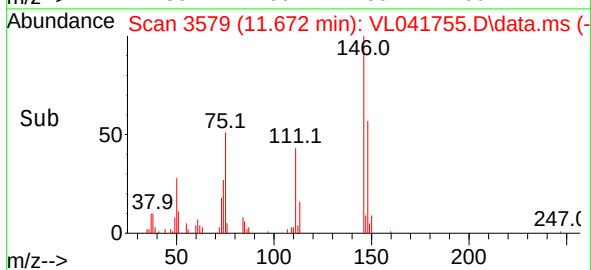
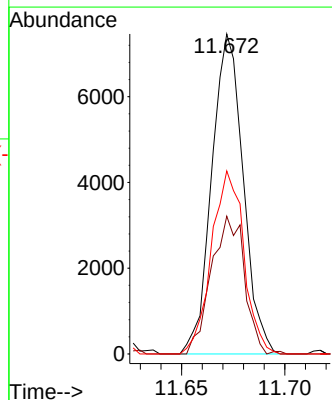
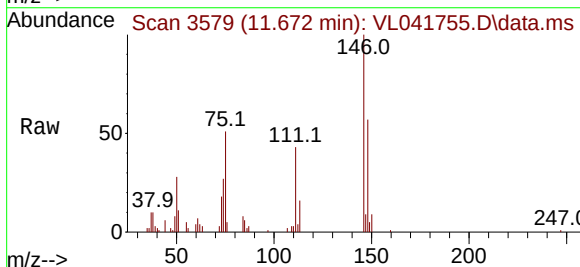
RT: 11.672 min Scan# 3579

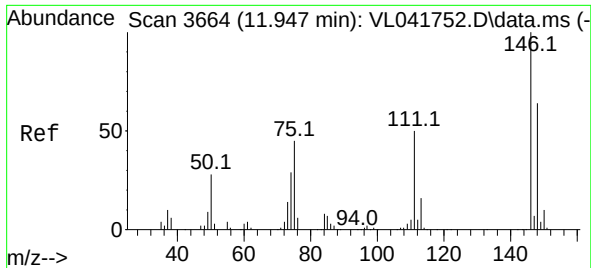
Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

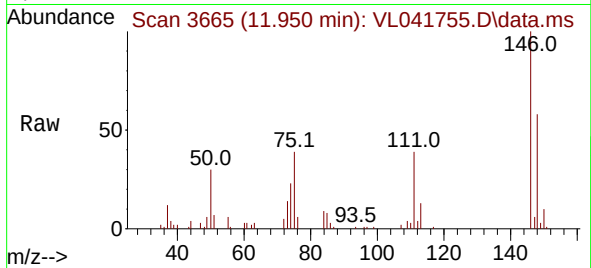
Tgt Ion:146	Resp:	7893
Ion Ratio	Lower	Upper
146	100	
111	45.4	22.7 68.1
148	58.9	31.4 94.0





#77
1,2-Dichlorobenzene
Concen: 0.538 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

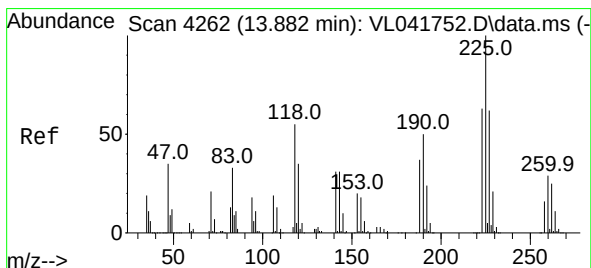
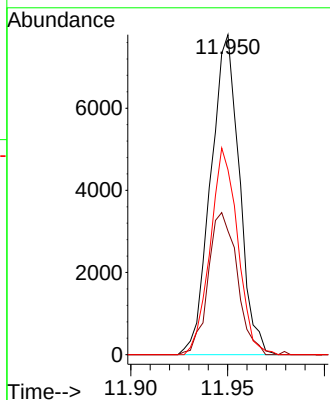
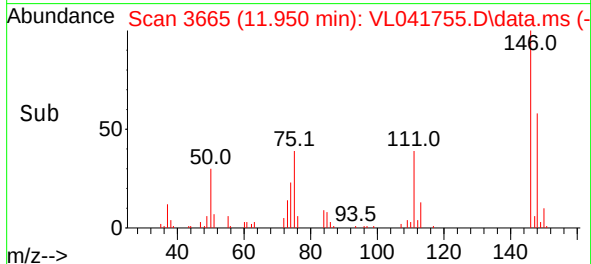
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



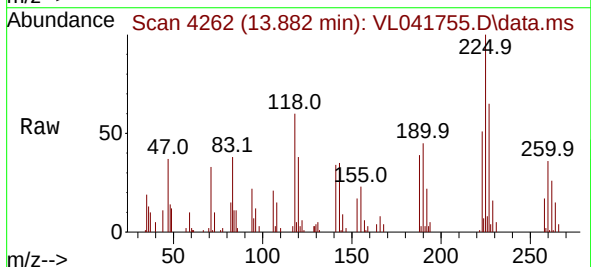
Tgt Ion:146 Resp: 799
Ion Ratio Lower Upper
146 100
111 45.2 24.8 74.3
148 62.0 31.8 95.4

Manual Integrations
APPROVED

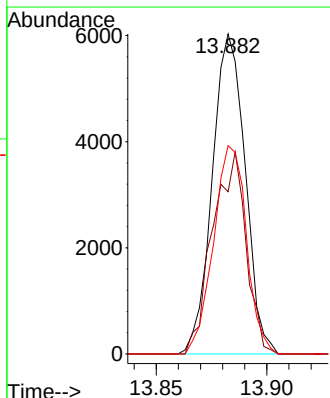
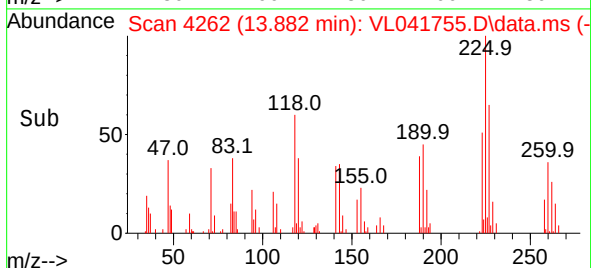
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

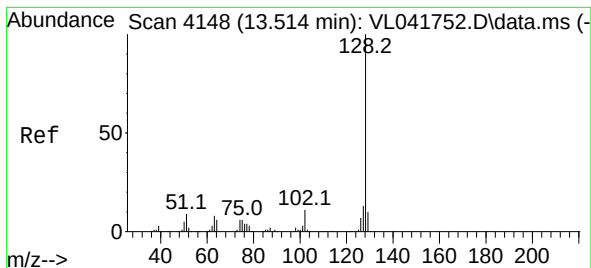


#78
Hexachloro-1,3-Butadiene
Concen: 0.565 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05



Tgt Ion:225 Resp: 6232
Ion Ratio Lower Upper
225 100
223 64.1 50.5 75.7
227 65.3 50.3 75.5





#79

Naphthalene

Concen: 0.436 ppbv

RT: 13.517 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

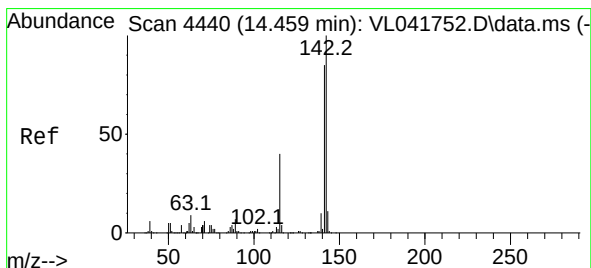
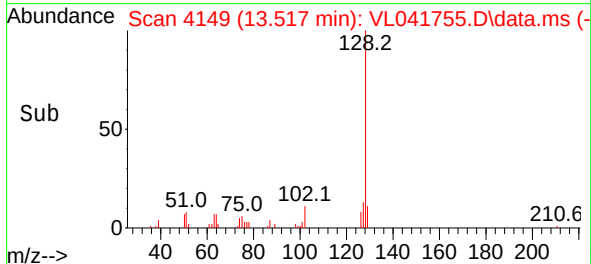
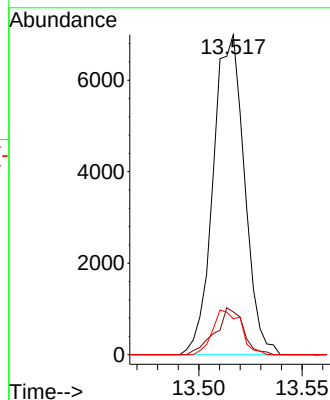
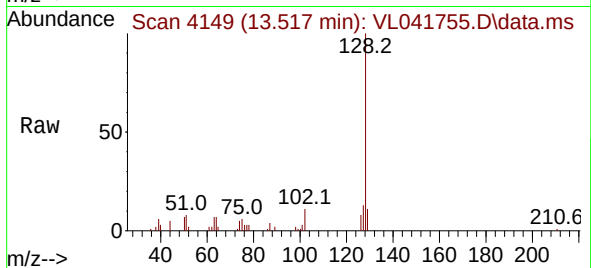
Tgt Ion:128 Resp: 7360

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.7	16.1
129	11.2	8.2	12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#80

Naphthalene,2-methyl-

Concen: 0.143 ppbv

RT: 14.462 min Scan# 4441

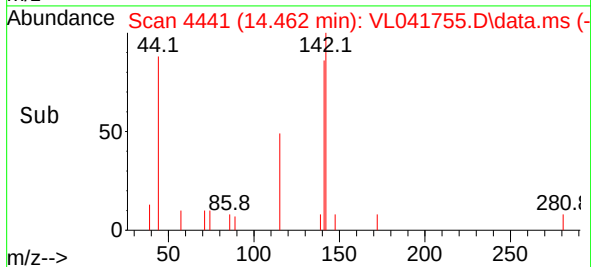
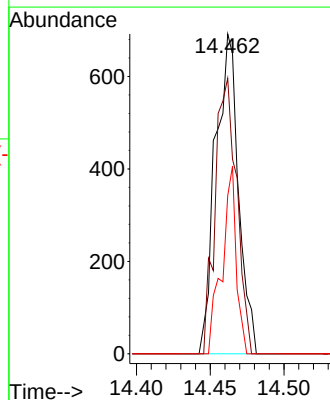
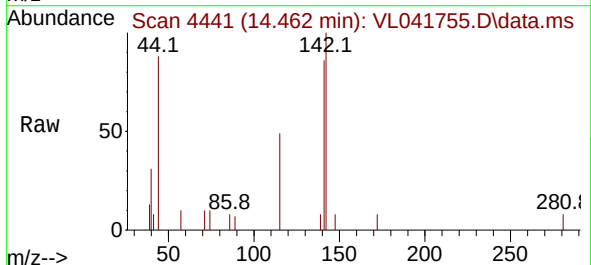
Delta R.T. 0.003 min

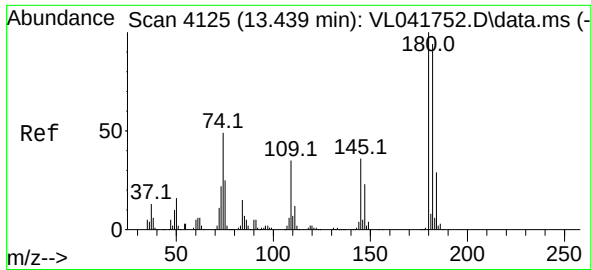
Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:142 Resp: 748

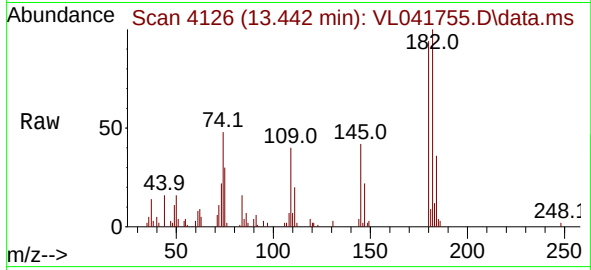
Ion	Ratio	Lower	Upper
142	100		
141	80.9	68.4	102.6
115	36.4	32.5	48.7





#81
 1,2,4-Trichlorobenzene
 Concen: 0.460 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

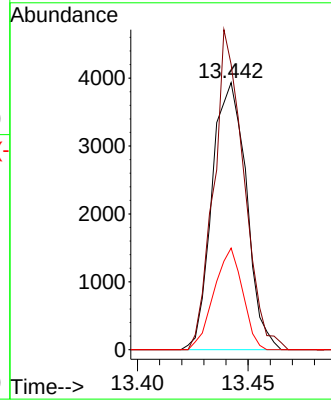
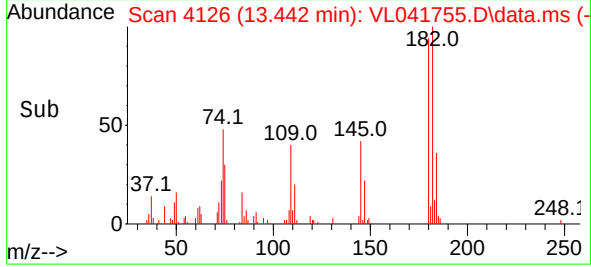
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:180 Resp: 4248
 Ion Ratio Lower Upper
 180 100
 182 104.5 77.0 115.6
 184 31.7 23.8 35.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041756.D
 Acq On : 16 Dec 2024 15:37
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:07 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	65926	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	177964	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158649	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	131540	9.950	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
5) Vinyl Chloride	1.580	62	444	0.096	ppbv #	78
32) 1,1,1-Trichloroethane	3.370	97	1393	0.101	ppbv	97
35) Carbon Tetrachloride	3.771	117	1170	0.093	ppbv #	84
38) Trichloroethene	4.548	130	835m	0.108	ppbv	
52) Tetrachloroethene	8.228	164	593m	0.087	ppbv	
54) 1,2-Dibromoethane	7.658	107	1005m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1485m	0.103	ppbv	
79) Naphthalene	13.523	128	1196	0.071	ppbv #	90

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

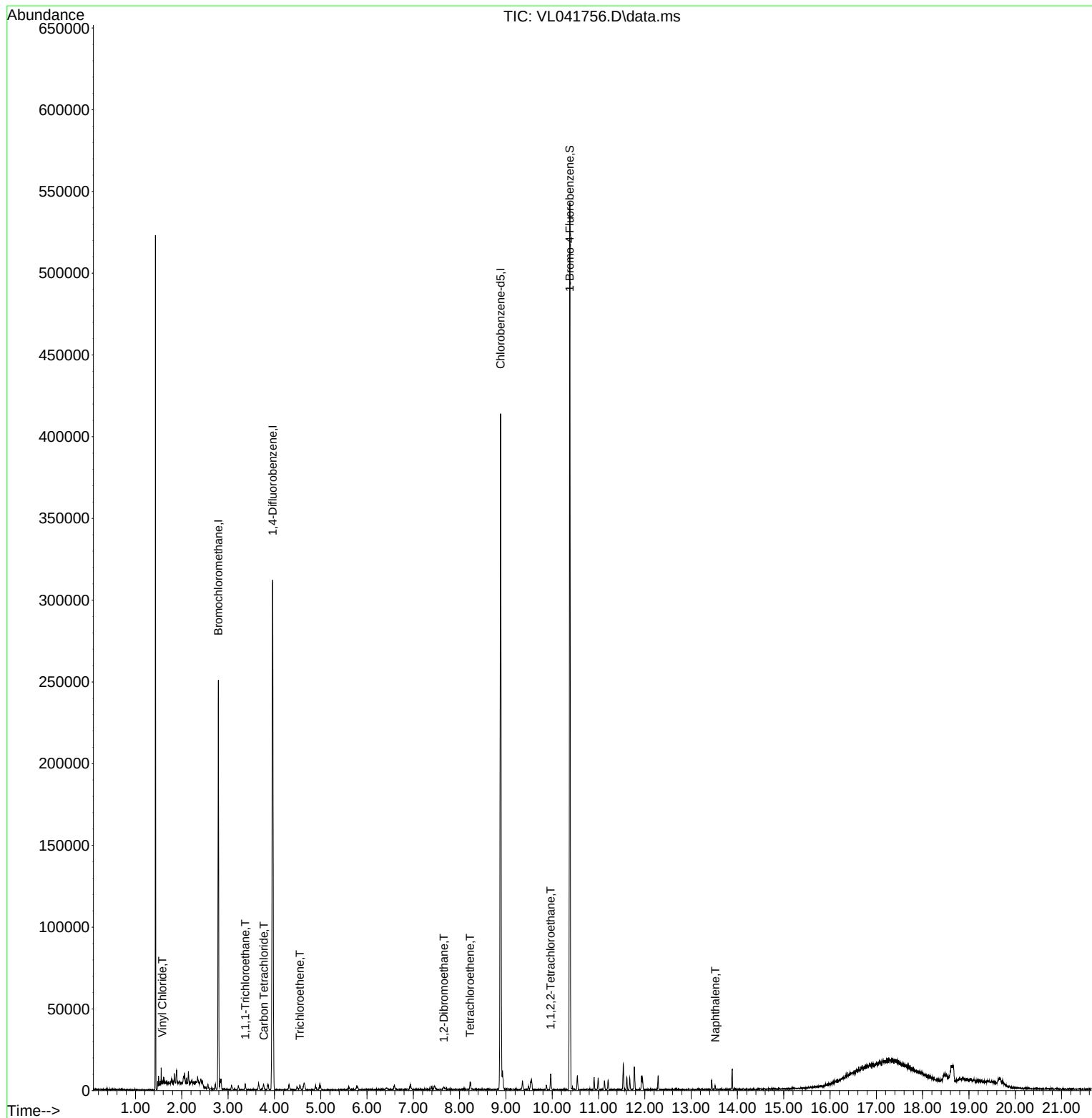
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041756.D
Acq On : 16 Dec 2024 15:37
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

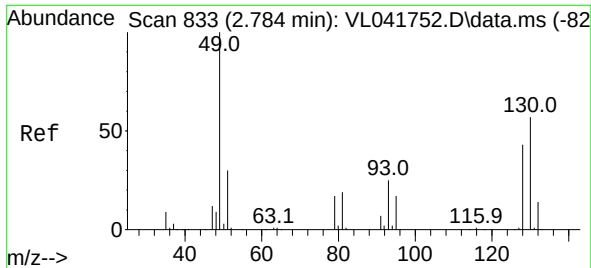
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration





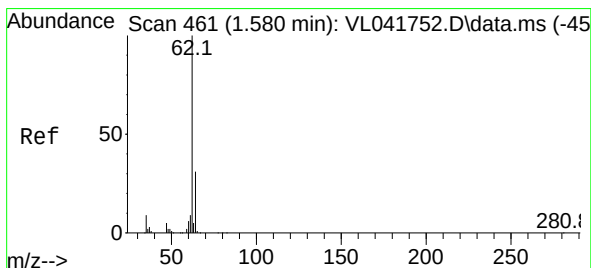
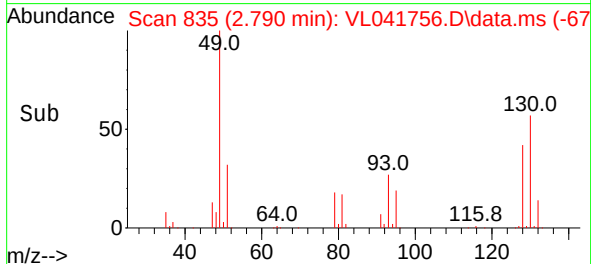
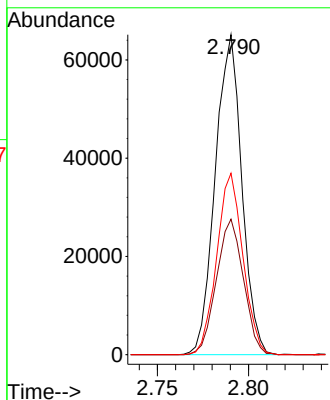
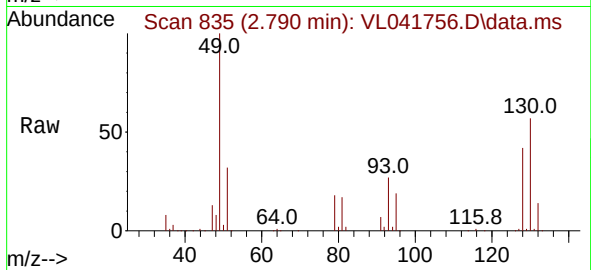
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion: 49 Resp: 65920
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.6
130 55.9 28.3 85.0

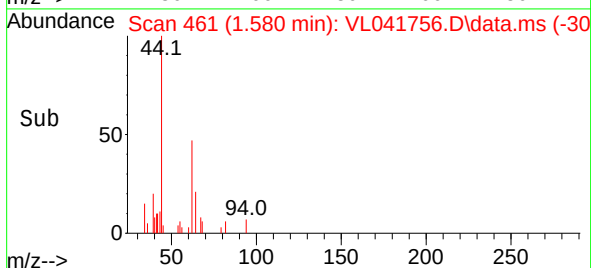
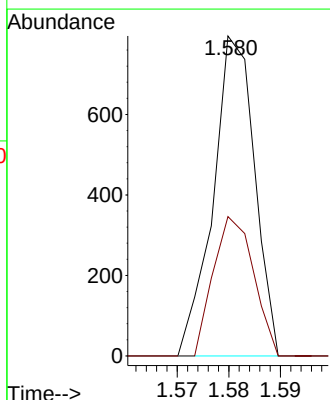
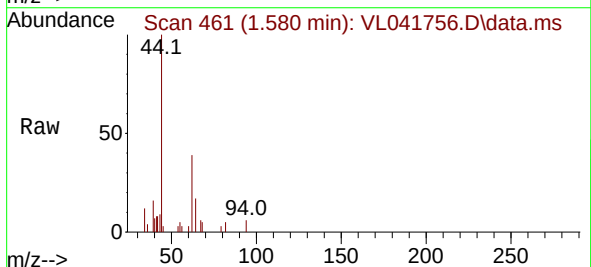
Manual Integrations
APPROVED

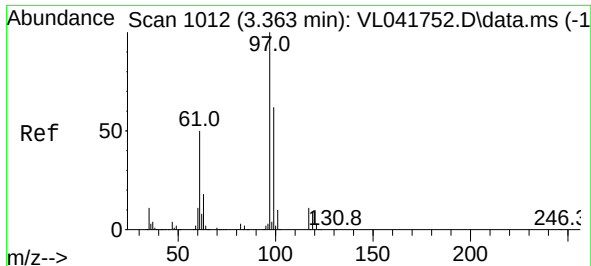
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#5
Vinyl Chloride
Concen: 0.096 ppbv
RT: 1.580 min Scan# 461
Delta R.T. -0.000 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 62 Resp: 444
Ion Ratio Lower Upper
62 100
64 43.5 25.1 37.7#





#32

1,1,1-Trichloroethane

Concen: 0.101 ppbv

RT: 3.370 min Scan# 1109

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

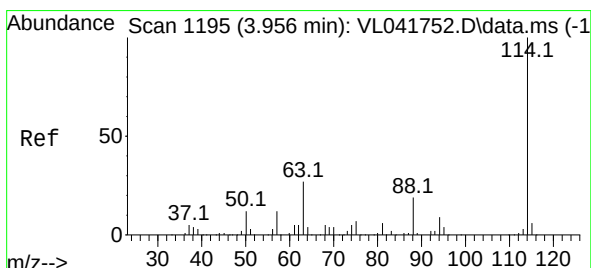
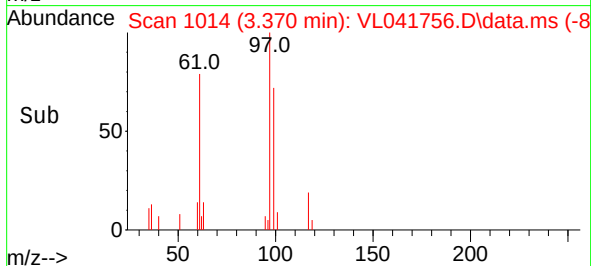
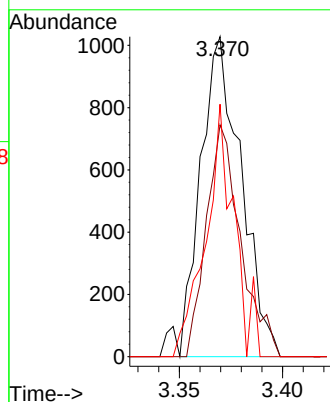
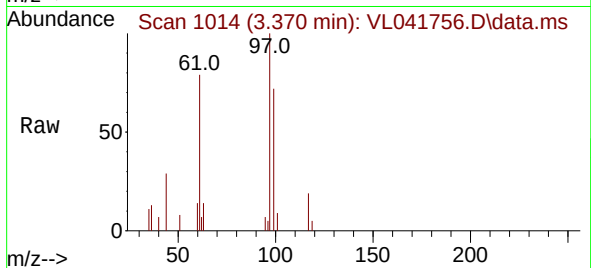
Tgt Ion: 97 Resp: 139

Ion	Ratio	Lower	Upper
97	100		
99	61.9	51.0	76.4
61	55.9	42.2	63.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

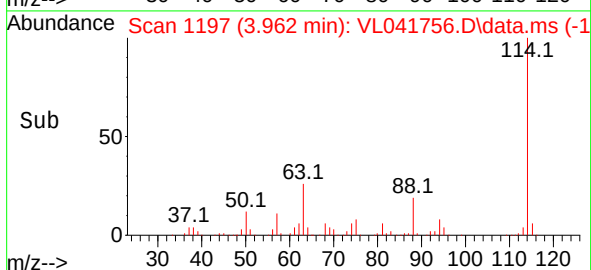
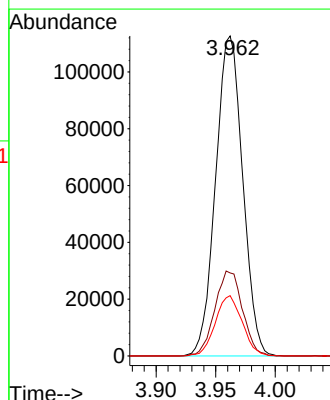
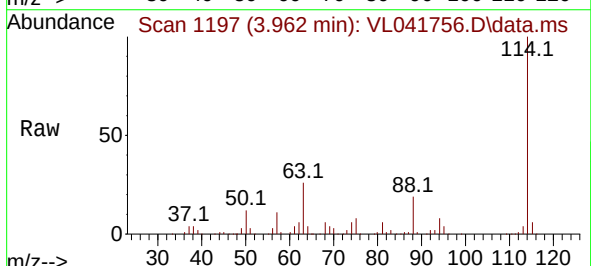
Delta R.T. 0.006 min

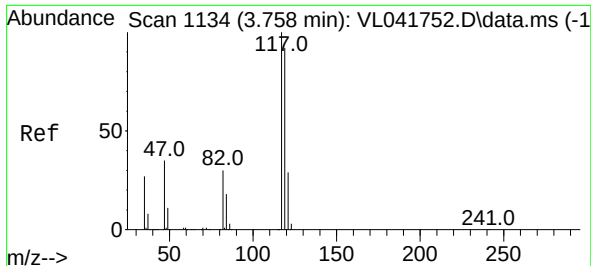
Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion:114 Resp: 177964

Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.8	32.8
88	18.7	14.8	22.2





#35

Carbon Tetrachloride

Concen: 0.093 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.013 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

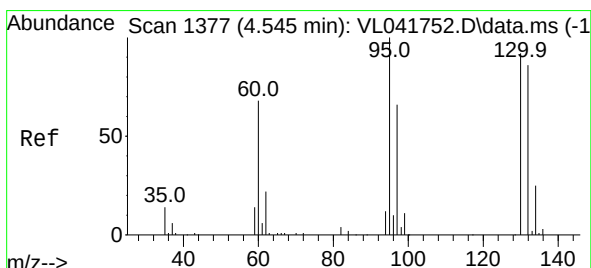
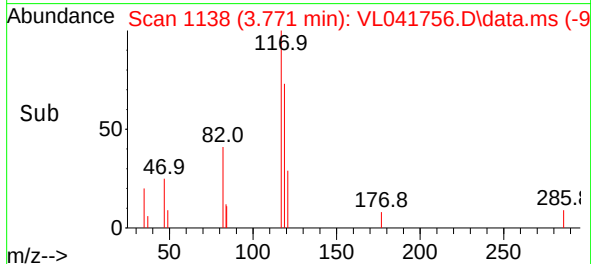
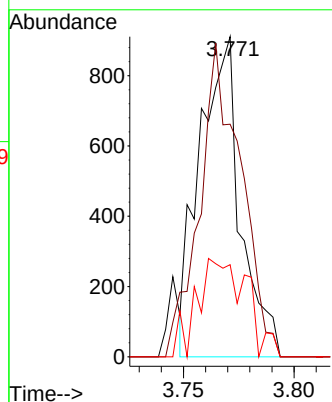
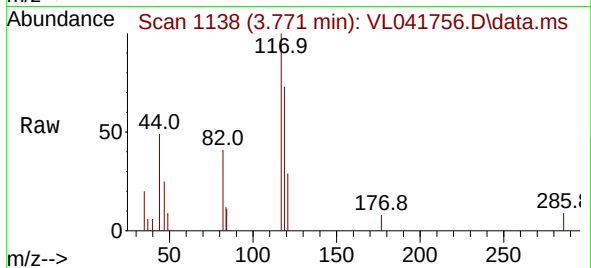
VSTDIC0.1

Tgt Ion:	117	Resp:	1170
Ion	Ratio	Lower	Upper
117	100		
119	72.7	73.7	110.5
121	28.8	23.0	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38

Trichloroethene

Concen: 0.108 ppbv m

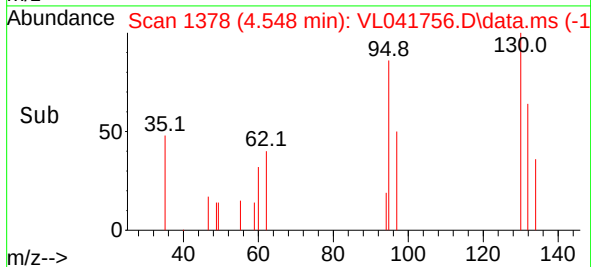
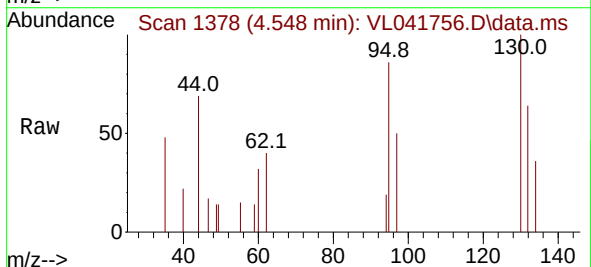
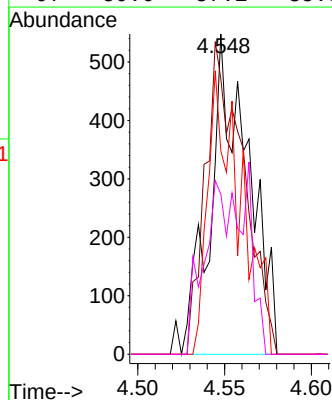
RT: 4.548 min Scan# 1378

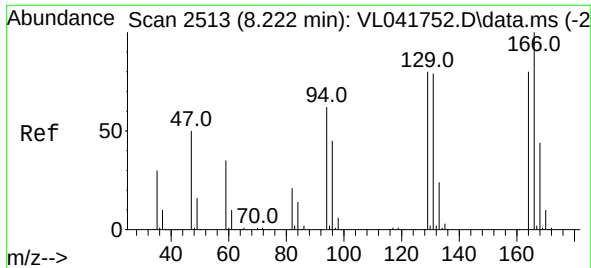
Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion:	130	Resp:	835
Ion	Ratio	Lower	Upper
130	100		
95	85.9	87.0	130.6
132	63.5	75.0	112.6
97	50.0	57.2	85.8





#52

Tetrachloroethene

Concen: 0.087 ppbv m

RT: 8.228 min Scan# 2513

Delta R.T. 0.006 min

Lab File: VL041756.D

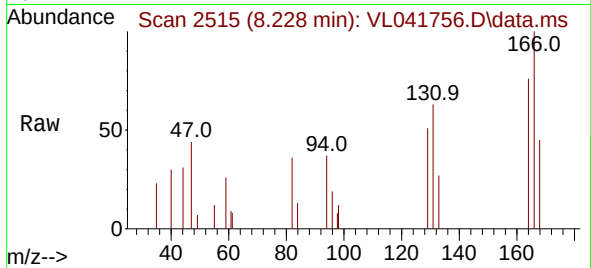
Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:164 Resp: 593

Ion Ratio Lower Upper

164 100

166 131.2 99.8 149.6

129 67.5 79.6 119.4

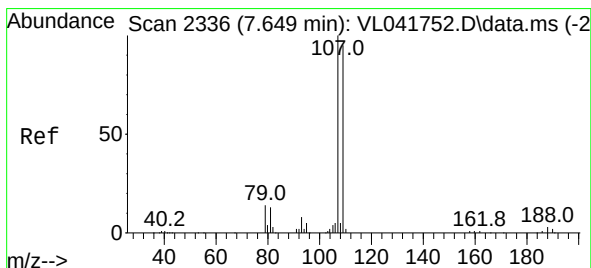
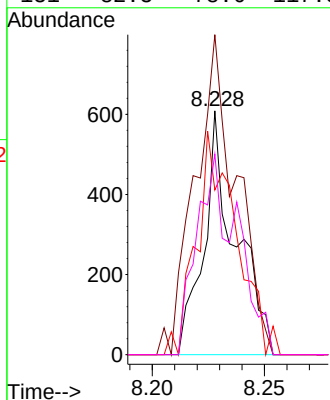
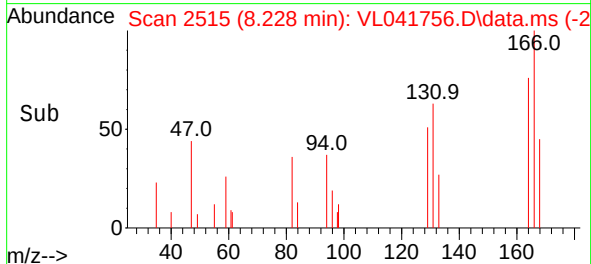
131 82.3 78.6 117.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 0.105 ppbv m

RT: 7.658 min Scan# 2339

Delta R.T. 0.010 min

Lab File: VL041756.D

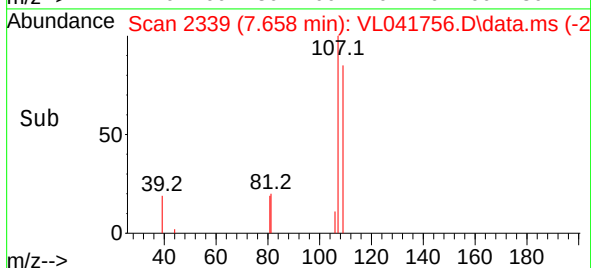
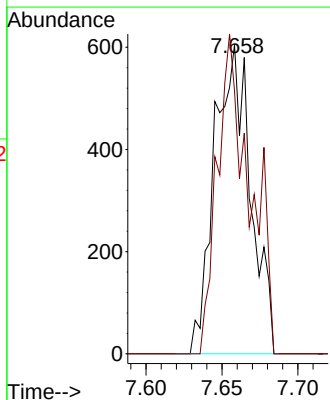
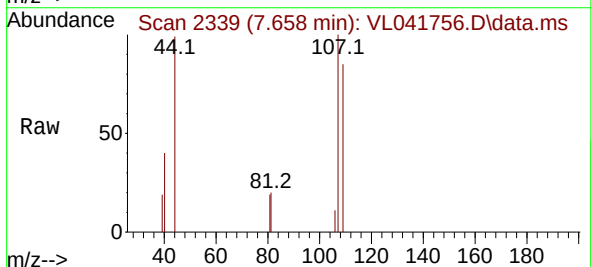
Acq: 16 Dec 2024 15:37

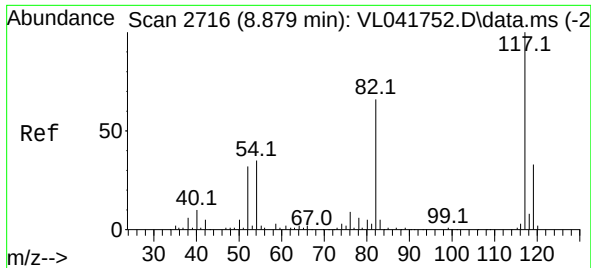
Tgt Ion:107 Resp: 1005

Ion Ratio Lower Upper

107 100

109 85.1 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.006 min

Lab File: VL041756.D

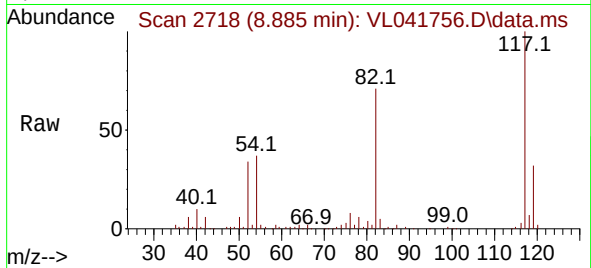
Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1



Tgt Ion:117 Resp: 158649

Ion Ratio Lower Upper

117 100

82 67.4 53.8 80.8

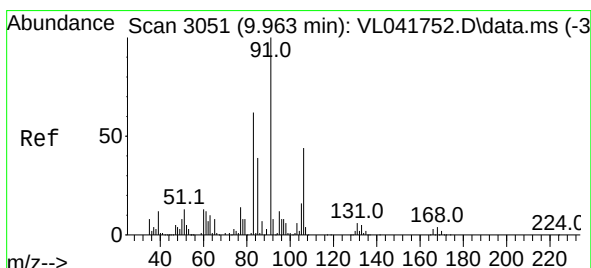
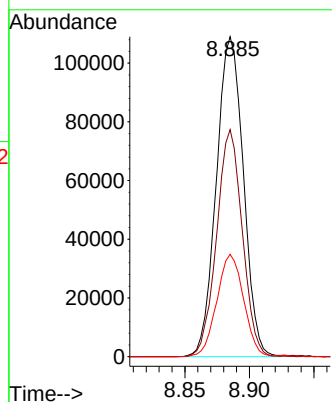
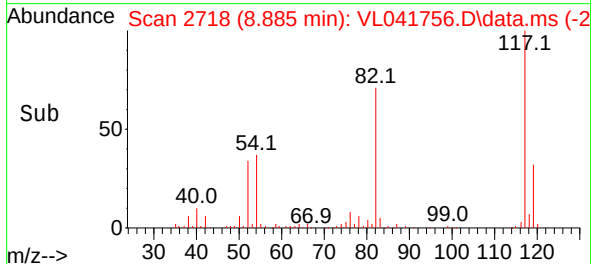
119 31.9 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#63

1,1,2,2-Tetrachloroethane

Concen: 0.103 ppbv m

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

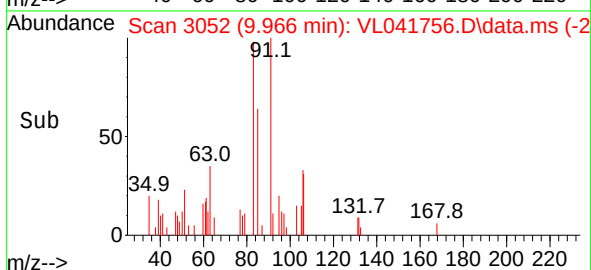
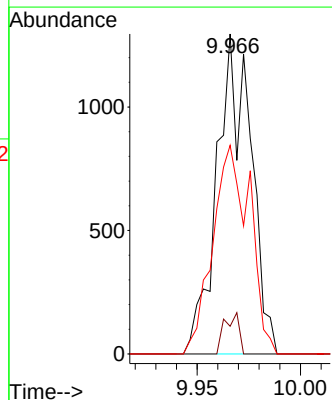
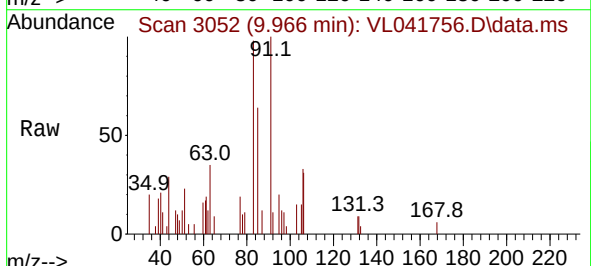
Tgt Ion: 83 Resp: 1485

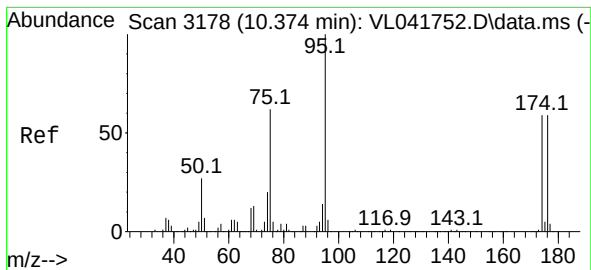
Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

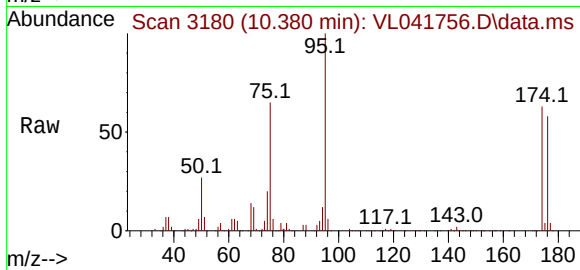
85 0.0 32.0 96.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.380 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

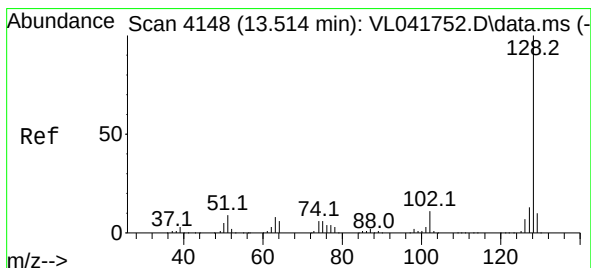
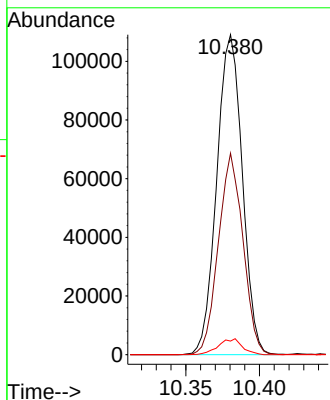
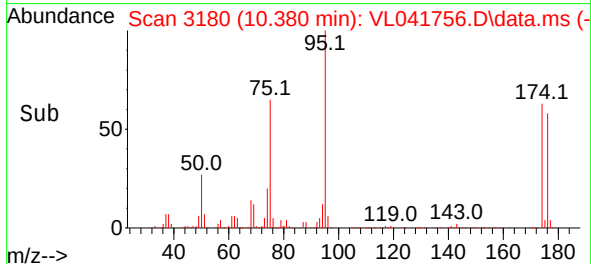
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



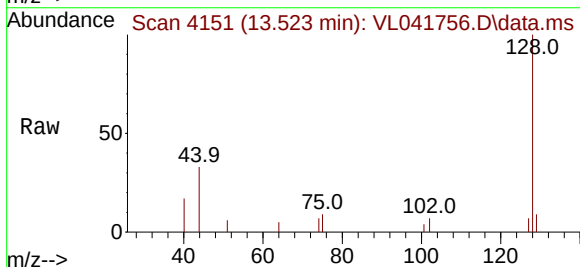
Tgt Ion: 95 Resp: 131540
Ion Ratio Lower Upper
95 100
174 60.6 47.6 71.4
175 4.7 3.7 5.5

Manual Integrations
APPROVED

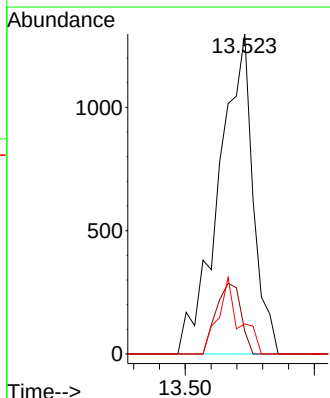
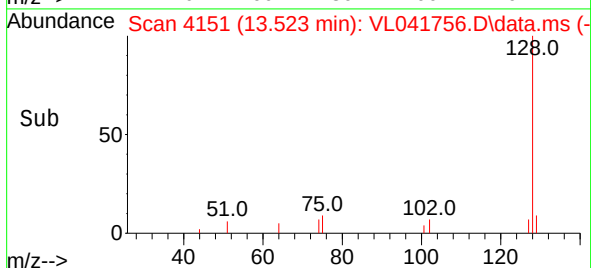
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#79
Naphthalene
Concen: 0.071 ppbv
RT: 13.523 min Scan# 4151
Delta R.T. 0.010 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37



Tgt Ion:128 Resp: 1196
Ion Ratio Lower Upper
128 100
127 7.1 10.7 16.1#
129 9.4 8.2 12.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041757.D
 Acq On : 16 Dec 2024 16:08
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.787	49	64158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	174825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	154998	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	128167	9.923	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	175	0.039	ppbv #	84
32) 1,1,1-Trichloroethane	3.369	97	427m	0.032	ppbv	
35) Carbon Tetrachloride	3.768	117	352m	0.028	ppbv	
38) Trichloroethene	4.551	130	289m	0.038	ppbv	
52) Tetrachloroethene	8.234	164	291m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	455	0.032	ppbv #	96

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

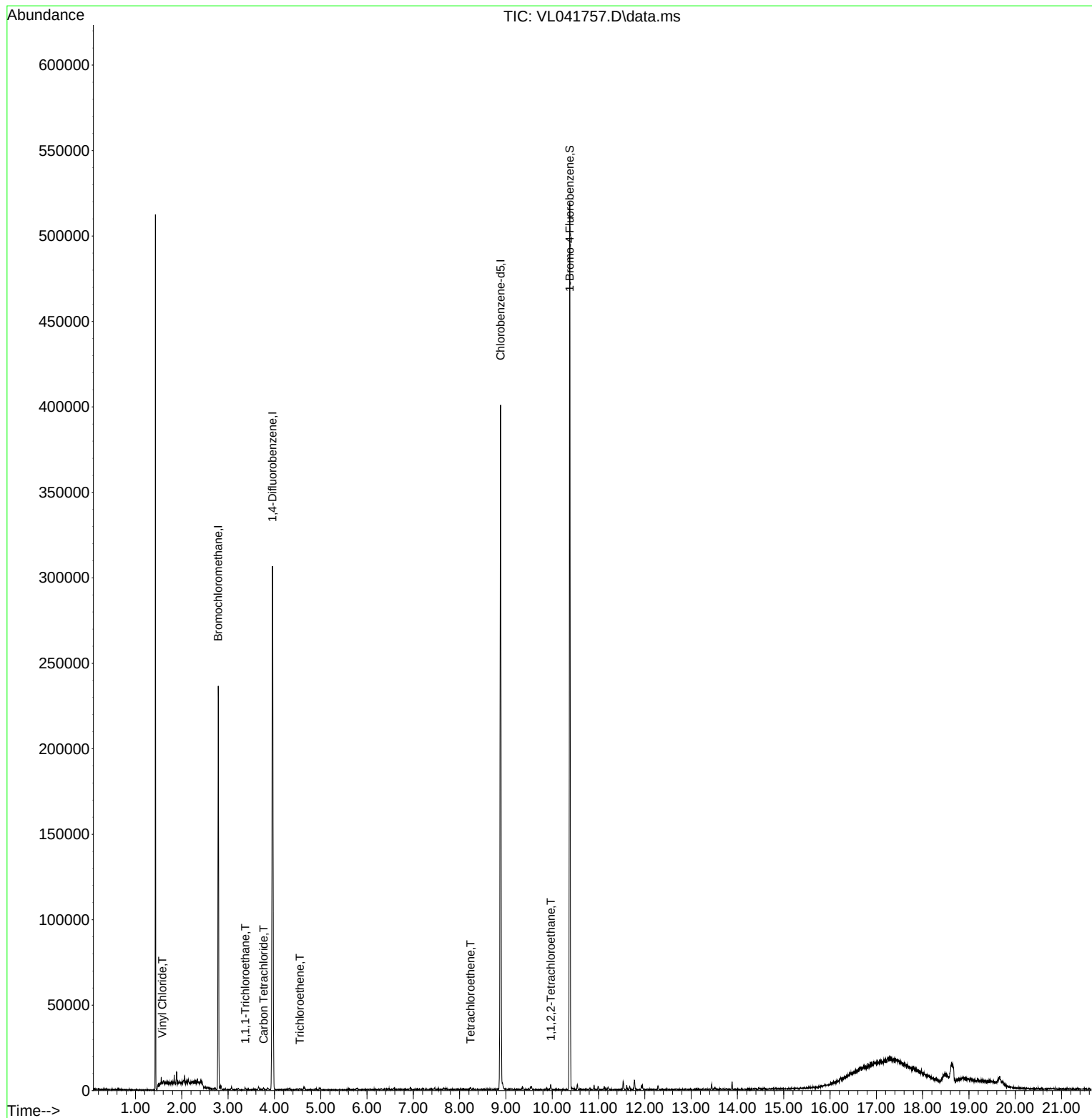
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041757.D
Acq On : 16 Dec 2024 16:08
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

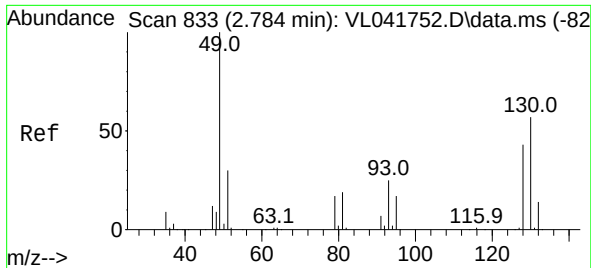
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
Supervised By : Mahesh Dadoda 12/20/2024





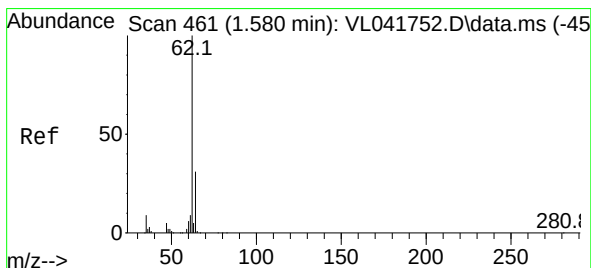
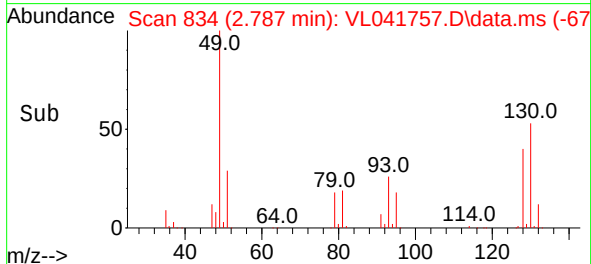
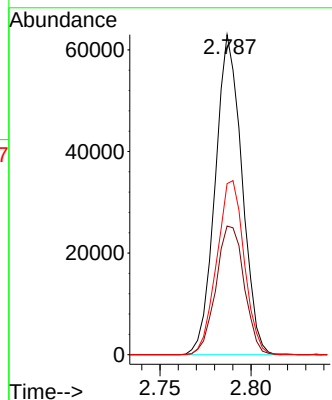
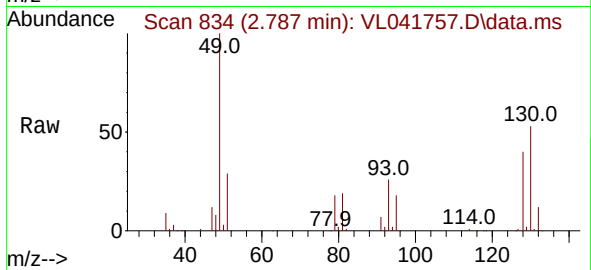
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 49 Resp: 64158
Ion Ratio Lower Upper
49 100
128 42.4 21.6 64.6
130 56.0 28.3 85.0

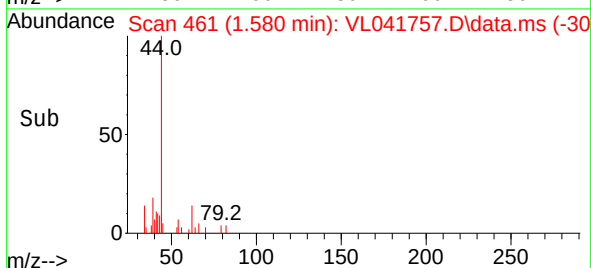
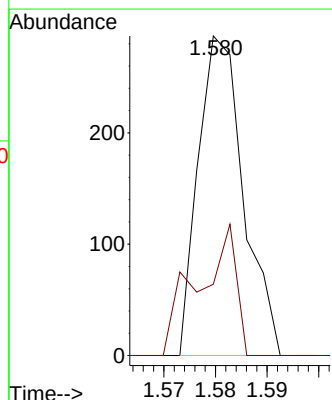
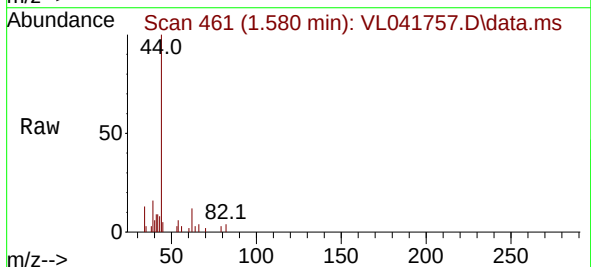
Manual Integrations
APPROVED

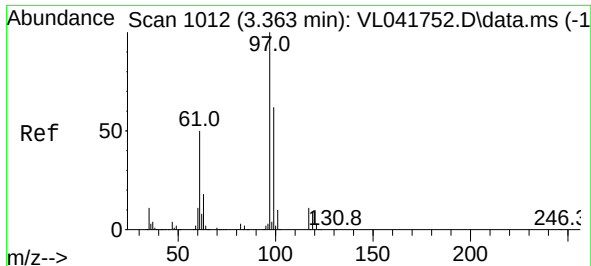
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#5
Vinyl Chloride
Concen: 0.039 ppbv
RT: 1.580 min Scan# 461
Delta R.T. -0.000 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion: 62 Resp: 175
Ion Ratio Lower Upper
62 100
64 22.3 25.1 37.7#





#32

1,1,1-Trichloroethane

Concen: 0.032 ppbv m

RT: 3.369 min Scan# 1012

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

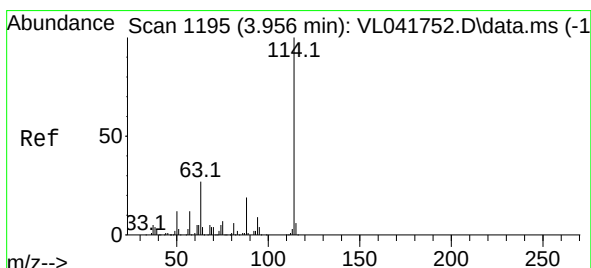
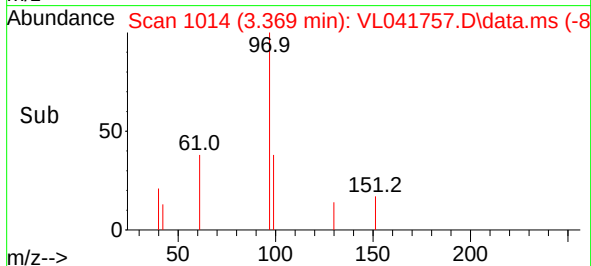
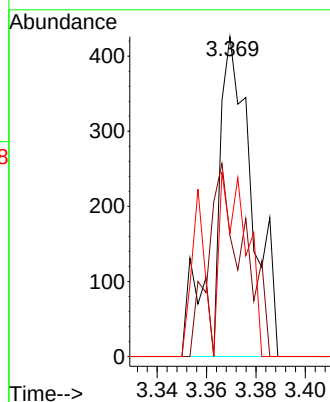
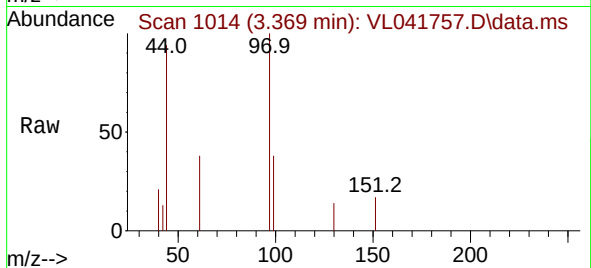
Tgt Ion: 97	Resp: 42
Ion Ratio	Lower Upper
97 100	
99 59.5	51.0 76.4
61 62.1	42.2 63.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

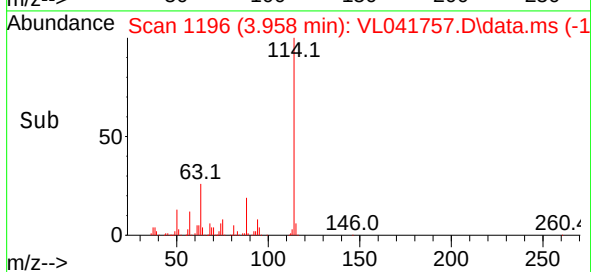
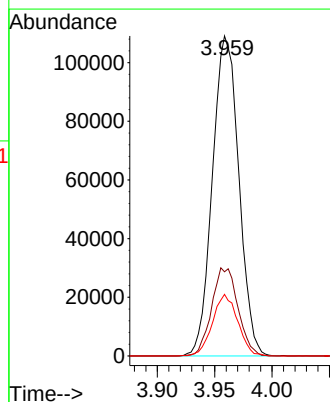
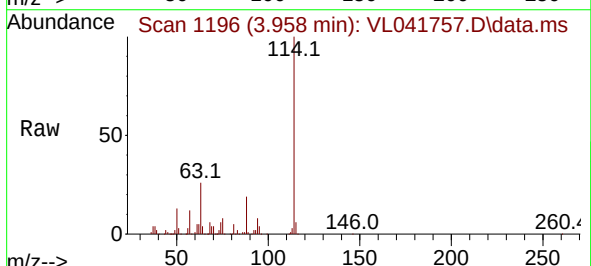
RT: 3.958 min Scan# 1196

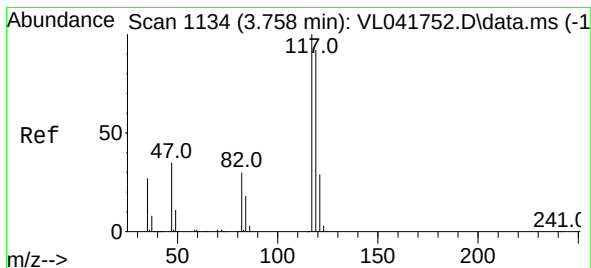
Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt	Ion:114	Resp:	174825
Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.8
88	18.4	14.8	22.2





#35

Carbon Tetrachloride

Concen: 0.028 ppbv m

RT: 3.768 min Scan# 1134

Delta R.T. 0.009 min

Lab File: VL041757.D

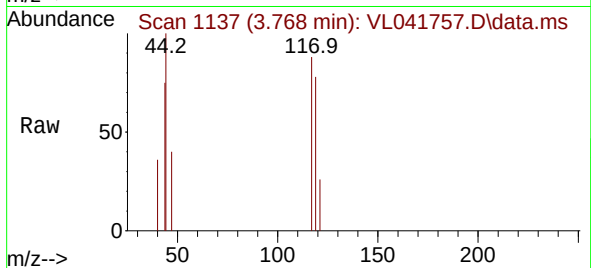
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



Tgt Ion:117 Resp: 352

Ion Ratio Lower Upper

117 100

119 88.9 73.7 110.5

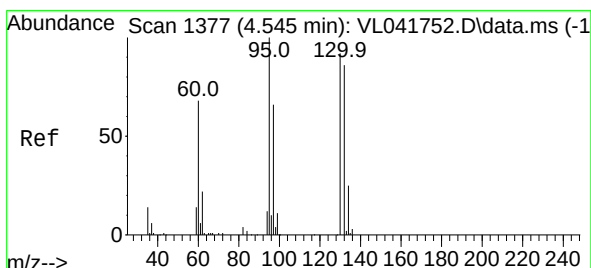
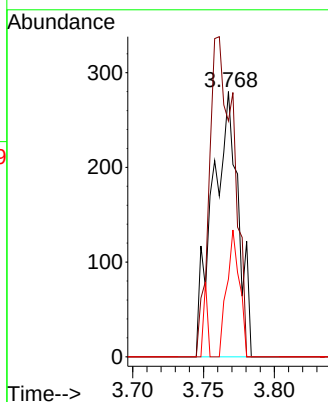
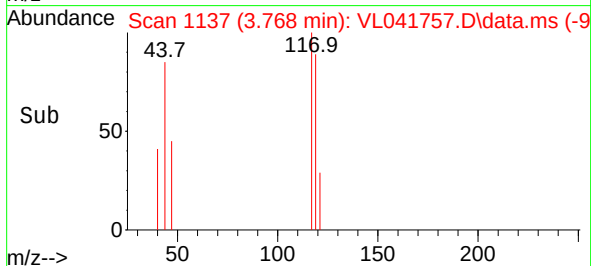
121 29.3 23.0 34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#38

Trichloroethene

Concen: 0.038 ppbv m

RT: 4.551 min Scan# 1379

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion:130 Resp: 289

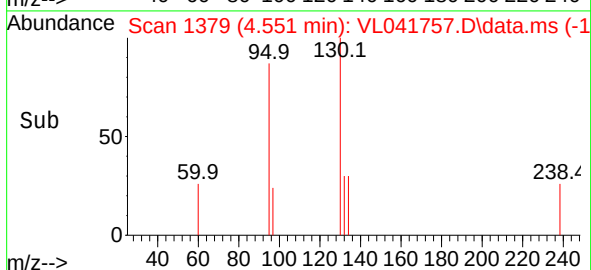
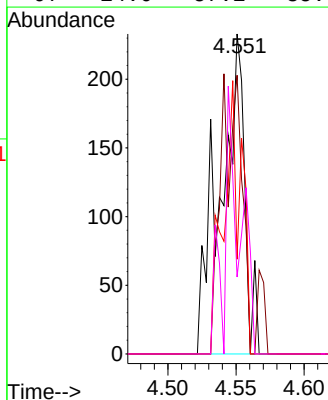
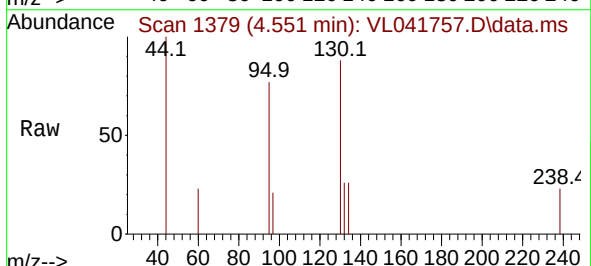
Ion Ratio Lower Upper

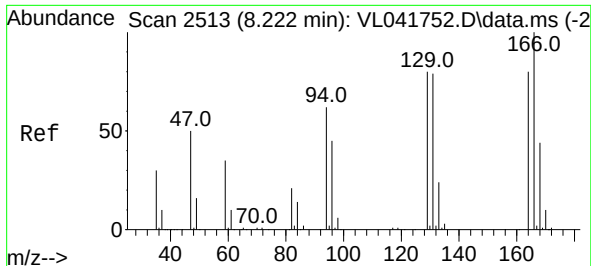
130 100

95 87.1 87.0 130.6

132 29.6 75.0 112.6#

97 24.0 57.2 85.8#





#52

Tetrachloroethene

Concen: 0.043 ppbv

RT: 8.234 min Scan# 2513

Delta R.T. 0.012 min

Lab File: VL041757.D

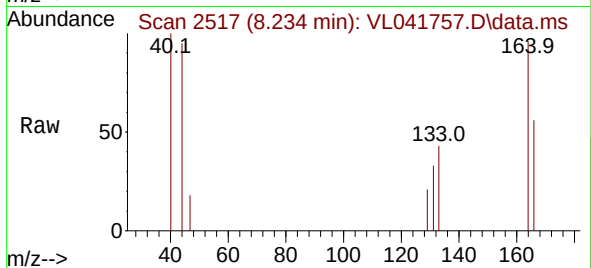
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03



Tgt Ion:164 Resp: 291

Ion Ratio Lower Upper

164 100

166 58.9 99.8 149.6

129 21.9 79.6 119.4

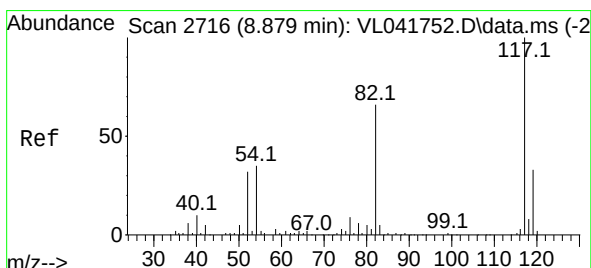
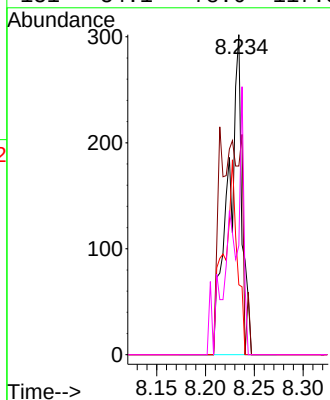
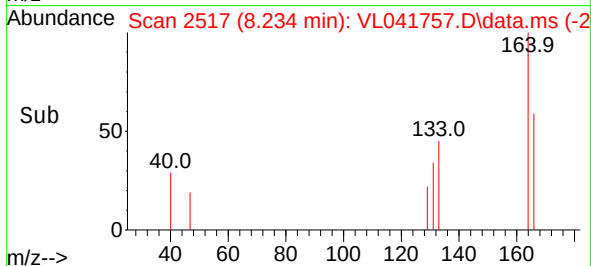
131 34.1 78.6 117.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

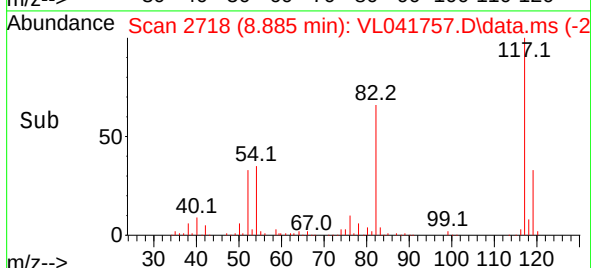
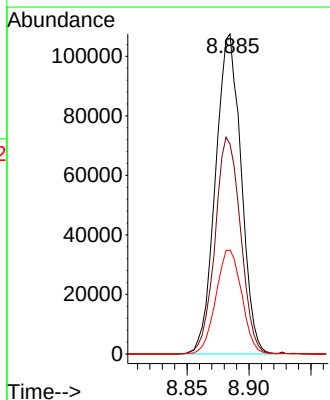
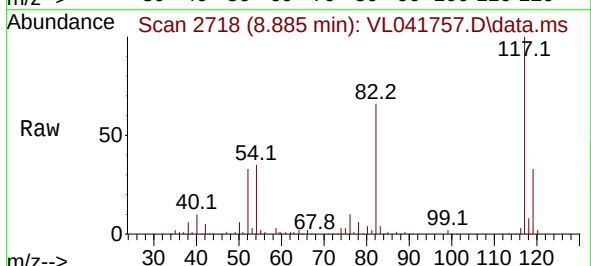
Tgt Ion:117 Resp: 154998

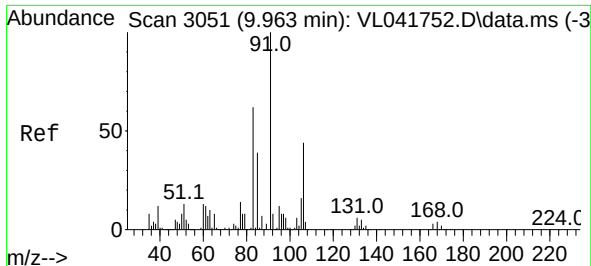
Ion Ratio Lower Upper

117 100

82 67.6 53.8 80.8

119 32.9 26.7 40.1





#63

1,1,2,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 9.969 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VL041757.D

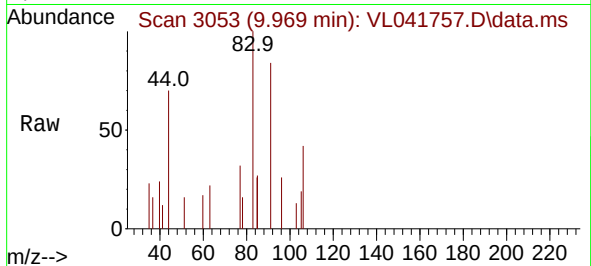
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

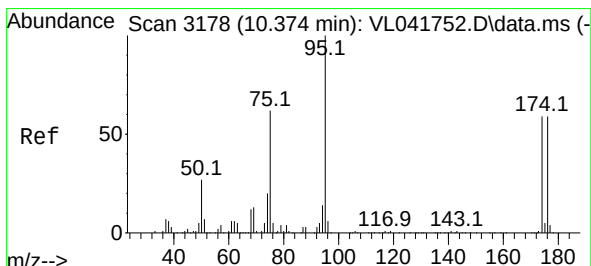
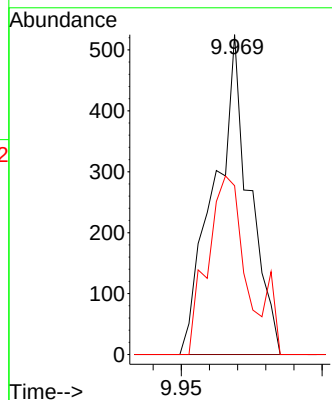
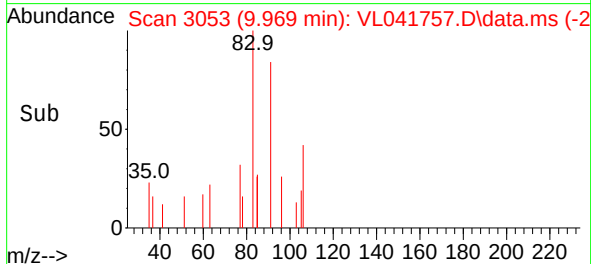


Tgt Ion:	83	Resp:	45
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.9	14.7
85	63.5	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.923 ppbv

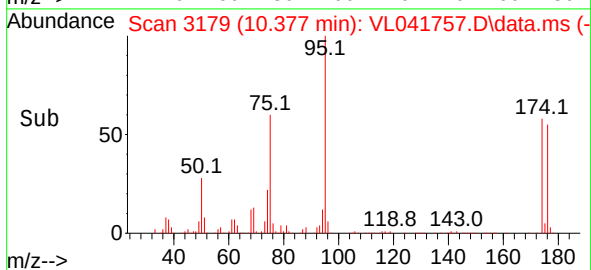
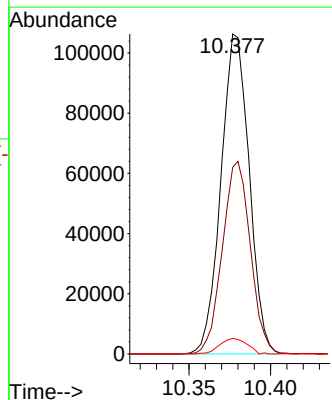
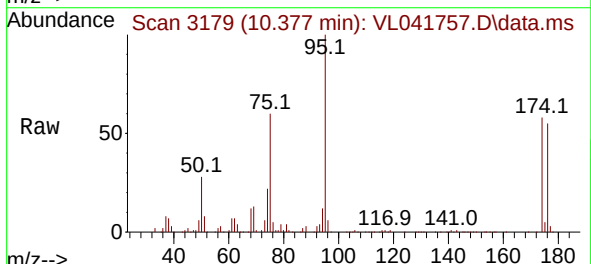
RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion:	95	Resp:	128167
Ion Ratio	Lower	Upper	
95	100		
174	59.8	47.6	71.4
175	4.7	3.7	5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 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 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:16:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	65186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	176856	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	160457	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 133687 9.998 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	152683	13.163	ppbv	95
3) Chlorodifluoromethane	1.473	51	152455	14.341	ppbv	98
4) Chloromethane	1.531	50	63517	13.996	ppbv	98
5) Vinyl Chloride	1.577	62	62250	13.615	ppbv	99
6) Bromomethane	1.667	94	30345	14.064	ppbv	96
7) Chloroethane	1.703	64	25650	14.442	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	148190	14.274	ppbv	99
9) Propene	1.483	41	61515	13.351	ppbv	99
10) Heptane	4.978	43	168804	14.263	ppbv	100
11) Trichlorofluoromethane	1.874	101	177984	14.446	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	135538	14.464	ppbv	98
13) Ethanol	1.719	45	3643	9.509	ppbv	100
14) Bromoethene	1.780	108	47132	14.898	ppbv	99
15) Acetone	1.832	43	142980	11.273	ppbv	100
16) 1,3-Butadiene	1.606	39	68311	13.678	ppbv	98
17) tert-Butyl alcohol	2.036	59	177908	14.140	ppbv	99
18) 1,1-Dichloroethene	2.033	96	57770	14.705	ppbv	99
19) Isopropyl Alcohol	1.884	45	82211	10.802	ppbv	99
20) Methylene Chloride	2.059	84	48356	13.371	ppbv	99
21) Allyl Chloride	2.094	41	101528	14.760	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	65029	14.461	ppbv	97
23) Vinyl Acetate	2.460	43	80795	14.661	ppbv	98
24) 1,1-Dichloroethane	2.405	63	131030	14.394	ppbv	100
25) Ethyl Acetate	2.832	43	341429	14.402	ppbv	100
26) Hexane	2.823	57	128657	14.369	ppbv	99
27) Carbon Disulfide	2.149	76	134963	16.726	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	100758	13.871	ppbv	100
29) Chloroform	2.845	83	197713	14.489	ppbv	99
30) Cyclohexane	3.855	84	110448	14.497	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	132821	14.355	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	204468	15.055	ppbv	100
34) 2-Butanone	2.554	43	195439	13.736	ppbv	99
35) Carbon Tetrachloride	3.761	117	206252	16.428	ppbv	94
36) Benzene	3.654	78	259630	14.192	ppbv	99
37) 1,2-Dichloroethane	3.214	62	166576	14.633	ppbv	100
38) Trichloroethene	4.548	130	104184	13.525	ppbv	95
39) 1,2-Dichloropropane	4.312	63	93624	14.150	ppbv	97
40) 1,4-Dioxane	4.577	88	44377	13.730	ppbv #	96
41) Tetrahydrofuran	3.052	42	113618	14.254	ppbv	100
42) Bromodichloromethane	4.486	83	211145	16.123	ppbv	96
43) Methyl Methacrylate	4.878	69	107165	15.374	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	445947	14.274	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	115159	15.973	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:16:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

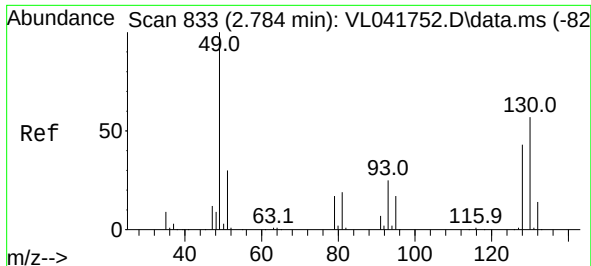
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	143172	15.643	ppbv	95
47) 1,1,2-Trichloroethane	6.580	97	98426	14.242	ppbv	94
48) Dibromochloromethane	7.386	129	161661	17.131	ppbv	100
49) Bromoform	9.484	173	137786	17.838	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	285467	14.735	ppbv	99
51) 2-Hexanone	7.435	43	232363	14.798	ppbv #	100
52) Tetrachloroethene	8.225	164	93120	13.675	ppbv	98
53) Toluene	6.930	91	301428	14.533	ppbv	100
54) 1,2-Dibromoethane	7.652	107	139889	14.690	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	128108	15.059	ppbv	99
57) Chlorobenzene	8.924	112	227716	13.869	ppbv	100
58) Ethyl Benzene	9.354	91	425852	14.742	ppbv	99
59) m/p-Xylene	9.552	91	678656m	29.209	ppbv	
60) o-Xylene	9.963	91	337891	14.506	ppbv	100
61) Styrene	9.869	104	165328	16.415	ppbv	100
62) Isopropylbenzene	10.539	105	506570	14.475	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	201057	13.790	ppbv	100
64) n-propylbenzene	10.989	120	129200	14.602	ppbv	97
65) tert-Butylbenzene	11.532	119	446690	14.148	ppbv	98
66) Benzyl Chloride	11.617	91	45189	16.234	ppbv	99
67) sec-Butylbenzene	11.769	105	624565	14.295	ppbv	99
69) p-Isopropyltoluene	11.927	119	528265	14.671	ppbv	99
70) n-Butylbenzene	12.283	91	525377	15.101	ppbv	100
71) 2-Chlorotoluene	10.901	91	387300	14.498	ppbv	100
72) 4-Ethyltoluene	11.125	105	409822	14.934	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	350895	15.383	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	371476	15.144	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	219506	14.036	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	222290	14.388	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	205737	13.672	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	138481	12.412	ppbv	100
79) Naphthalene	13.513	128	301006	17.611	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	161927	30.630	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	146340	15.669	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Dec 19 06:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration





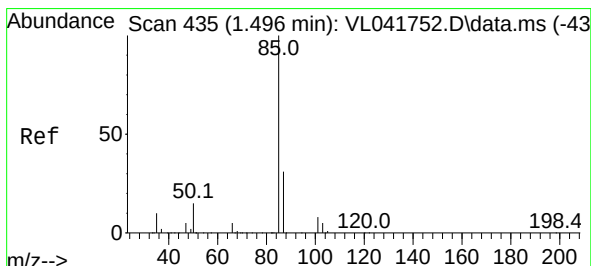
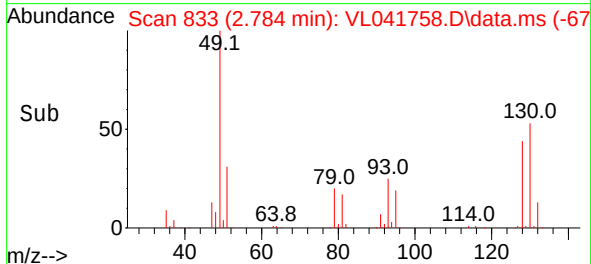
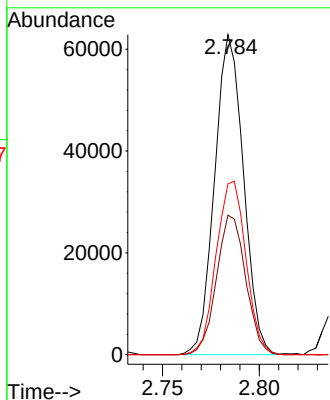
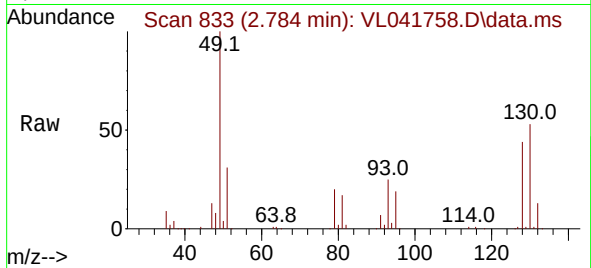
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 65180
Ion Ratio Lower Upper
49 100
128 44.0 21.6 64.6
130 56.0 28.3 85.0

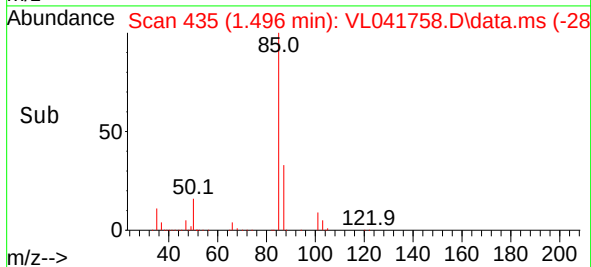
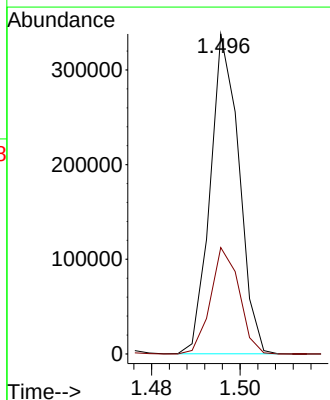
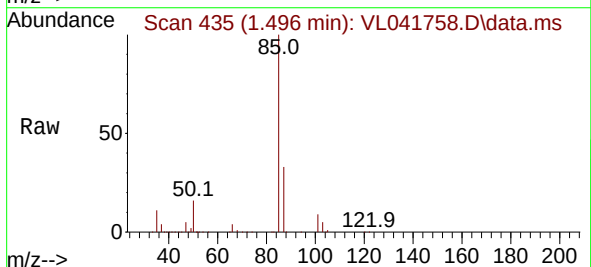
Manual Integrations
APPROVED

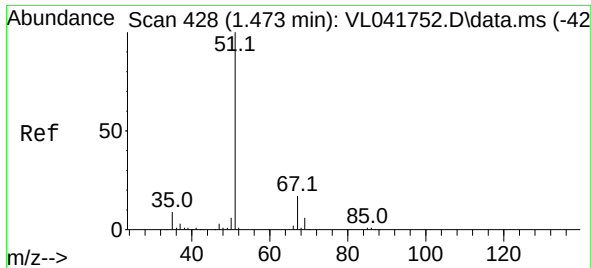
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#2
Dichlorodifluoromethane
Concen: 13.163 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 85 Resp: 152683
Ion Ratio Lower Upper
85 100
87 33.3 24.5 36.7





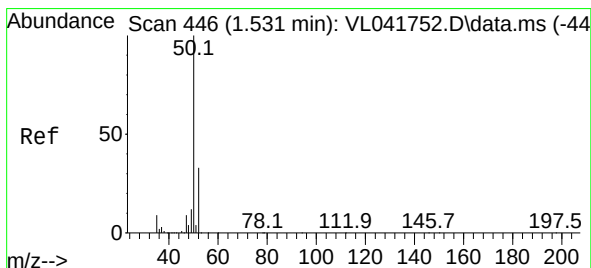
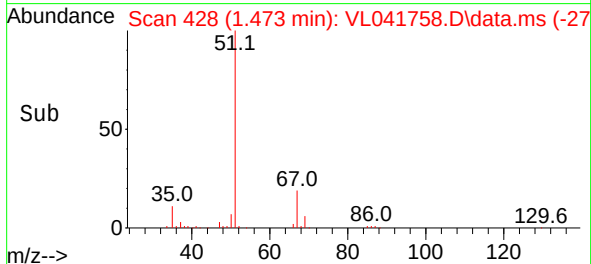
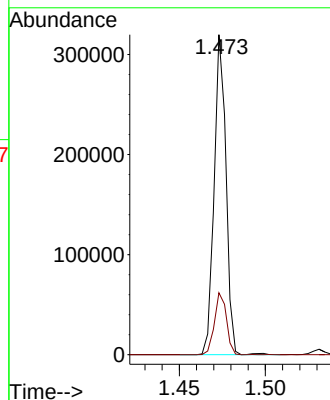
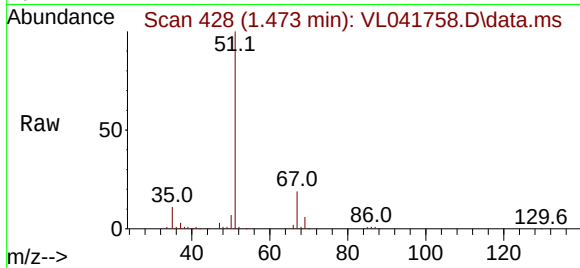
#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 15245
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.4

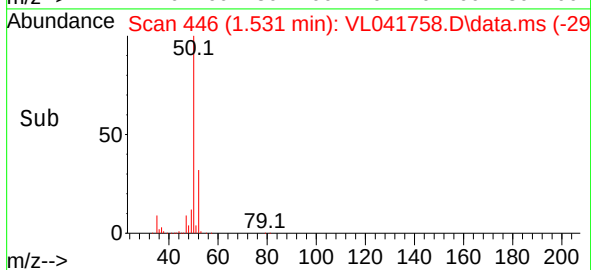
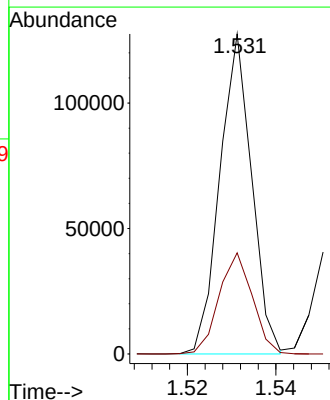
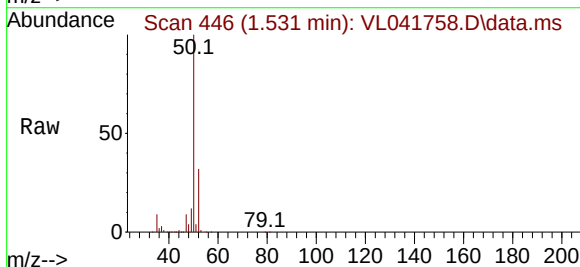
Manual Integrations
APPROVED

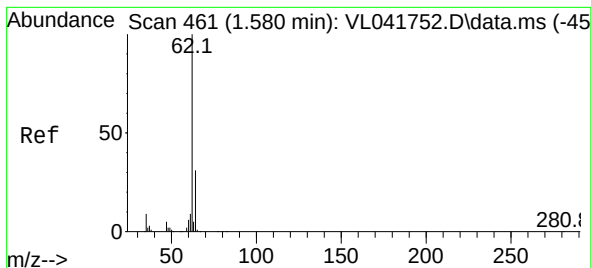
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 13.996 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 50 Resp: 63517
Ion Ratio Lower Upper
50 100
52 31.5 26.2 39.2





#5

Vinyl Chloride

Concen: 13.615 ppbv

RT: 1.577 min Scan# 460

Delta R.T. -0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 62250

Ion Ratio Lower Upper

62 100

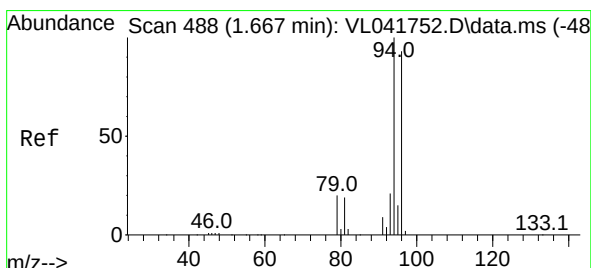
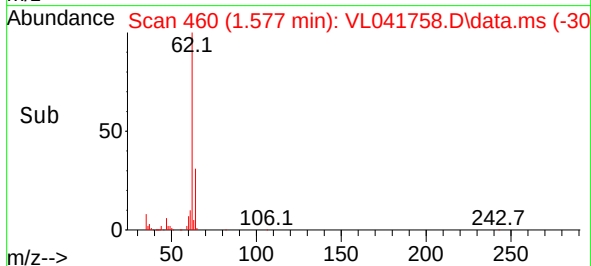
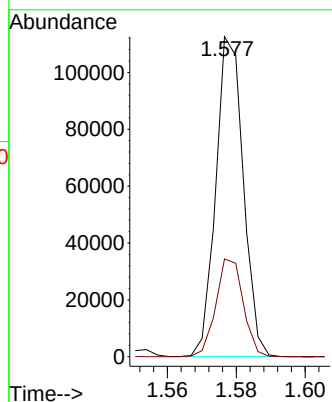
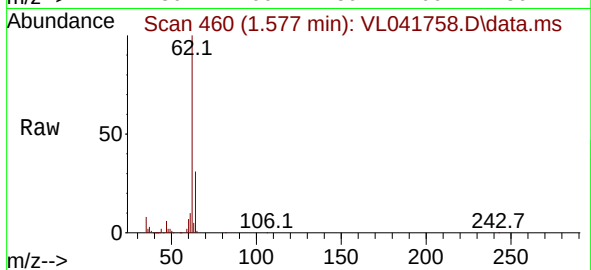
64 30.6 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#6

Bromomethane

Concen: 14.064 ppbv

RT: 1.667 min Scan# 488

Delta R.T. -0.000 min

Lab File: VL041758.D

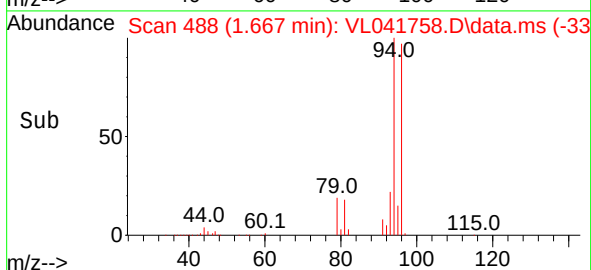
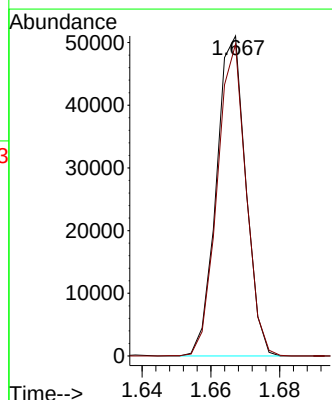
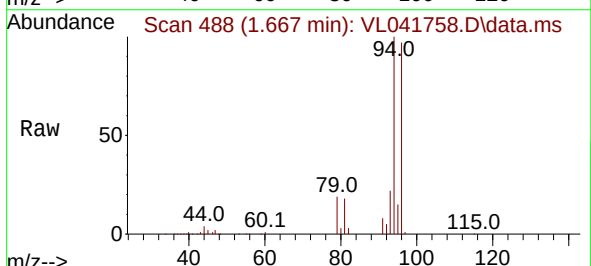
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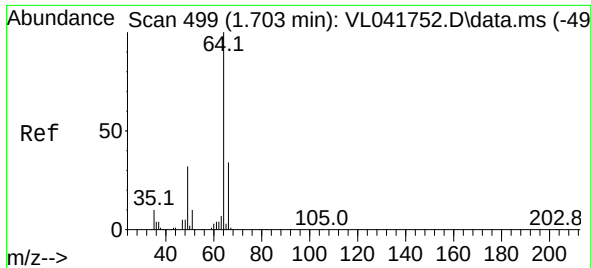
Tgt Ion: 94 Resp: 30345

Ion Ratio Lower Upper

94 100

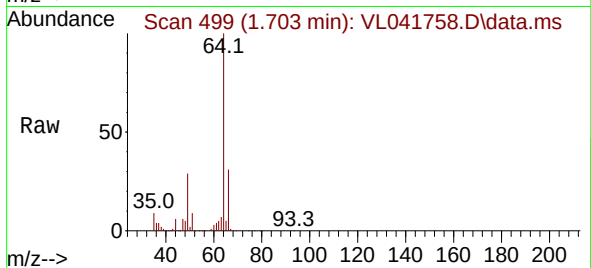
96 97.3 74.7 112.1





#7
Chloroethane
Concen: 14.442 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

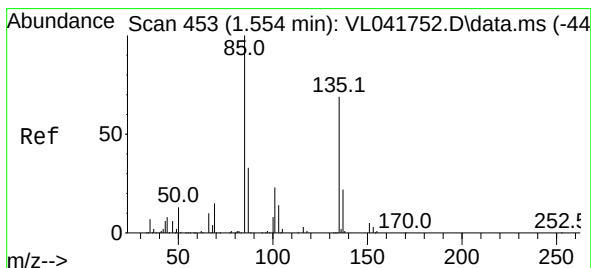
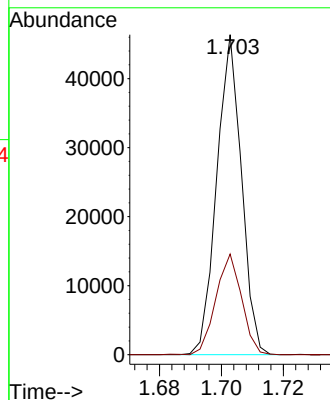
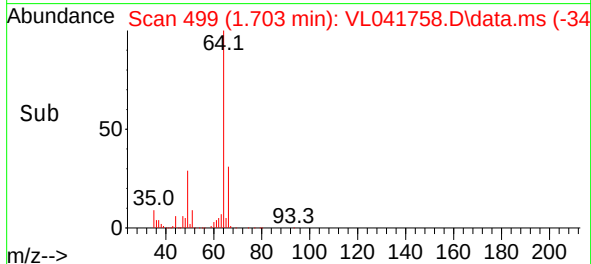
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 64 Resp: 25650
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3

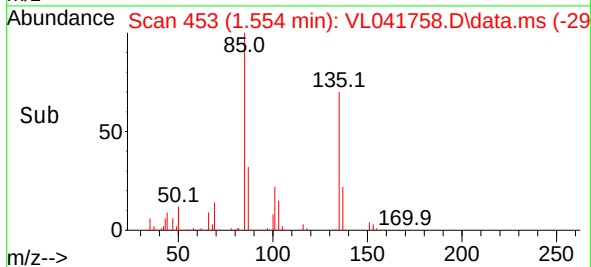
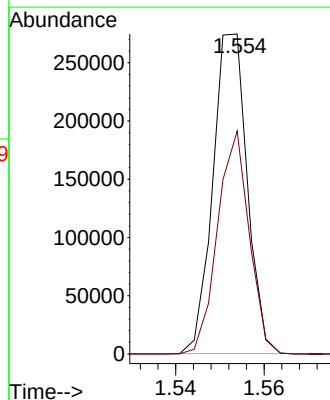
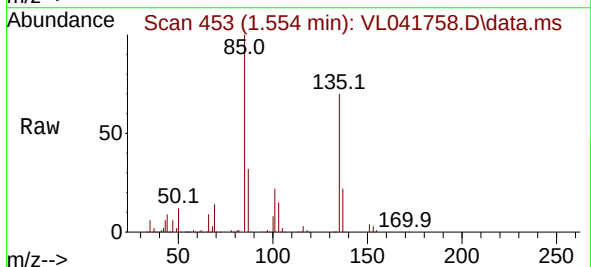
Manual Integrations
APPROVED

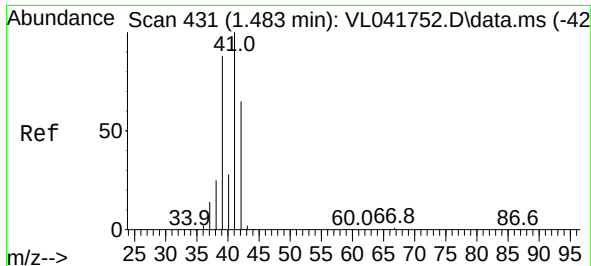
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 14.274 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 85 Resp: 148190
Ion Ratio Lower Upper
85 100
135 64.1 51.9 77.9





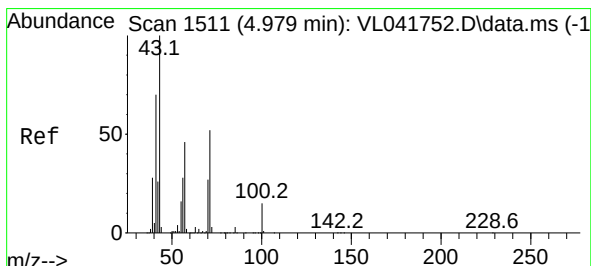
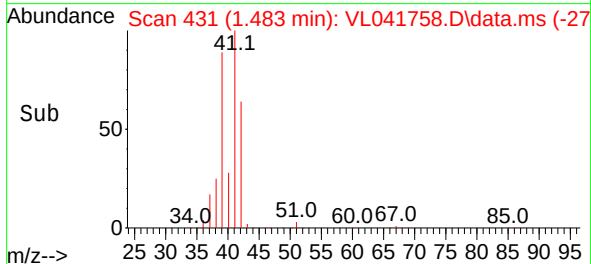
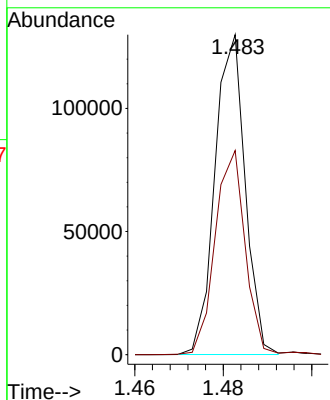
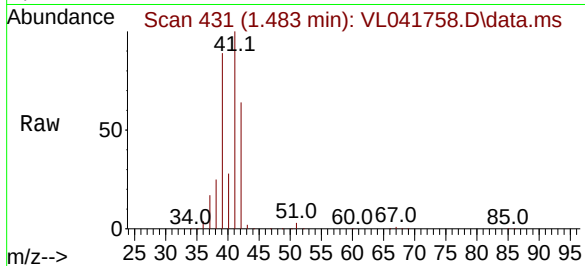
#9
 Propene
 Concen: 13.351 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 41 Resp: 61515
 Ion Ratio Lower Upper
 41 100
 42 64.4 52.4 78.6

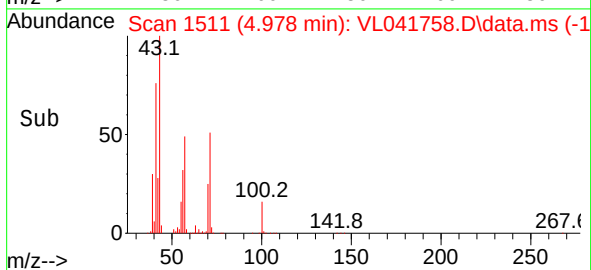
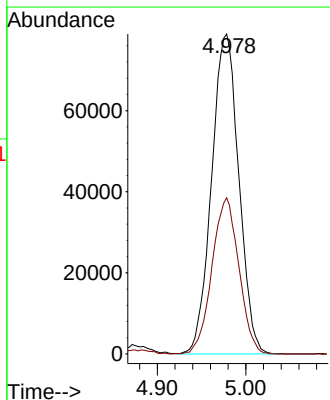
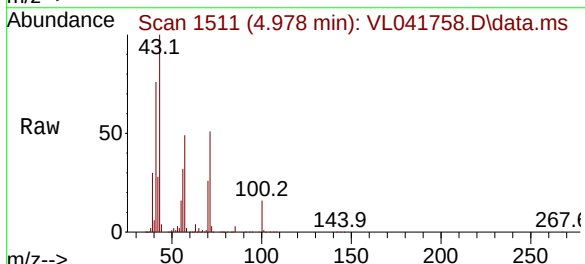
Manual Integrations
 APPROVED

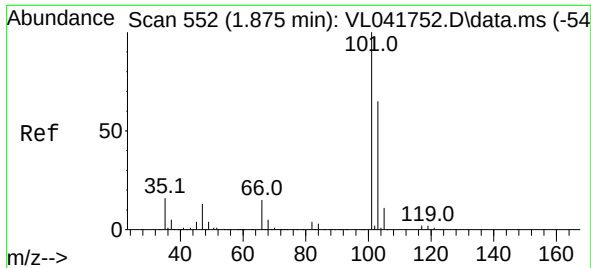
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#10
 Heptane
 Concen: 14.263 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

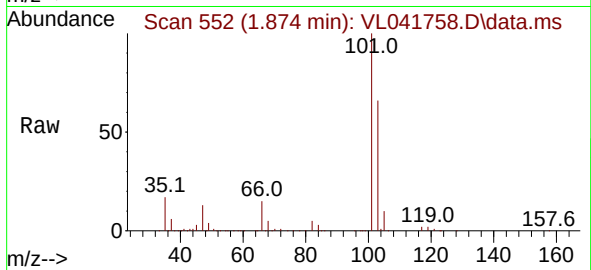
Tgt Ion: 43 Resp: 168804
 Ion Ratio Lower Upper
 43 100
 57 48.2 38.5 57.7





#11
Trichlorofluoromethane
Concen: 14.446 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

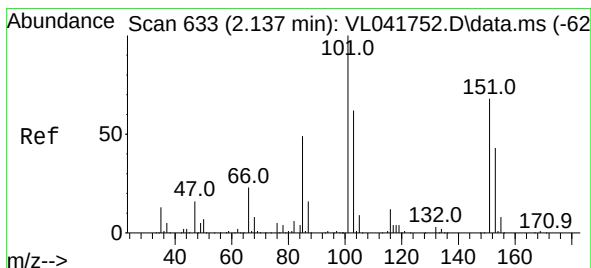
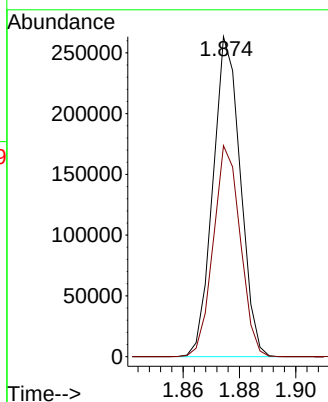
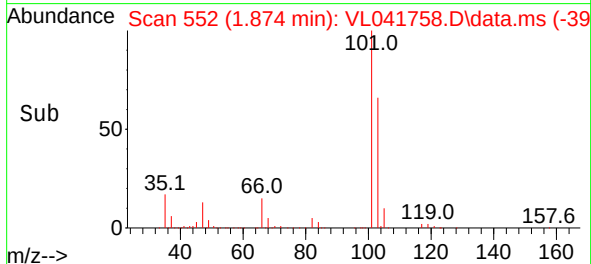
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



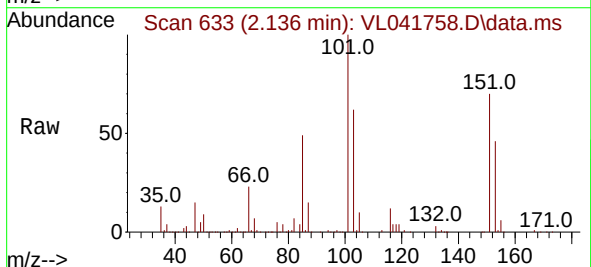
Tgt Ion:101 Resp: 177984
Ion Ratio Lower Upper
101 100
103 65.9 51.8 77.8

Manual Integrations
APPROVED

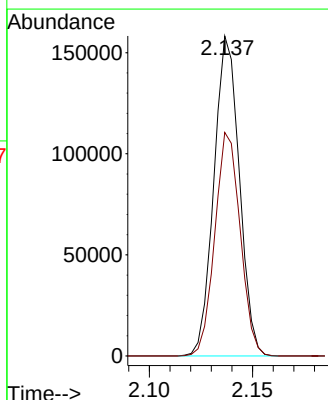
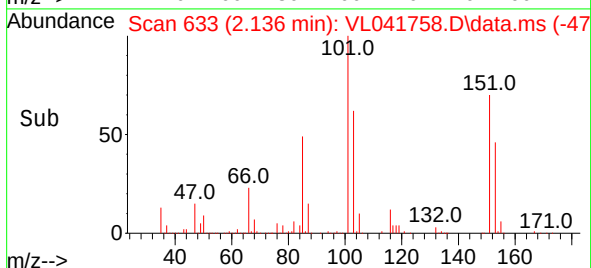
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

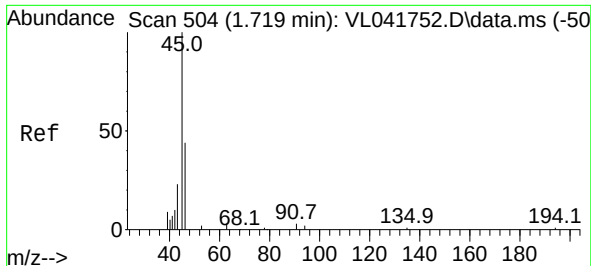


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.464 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



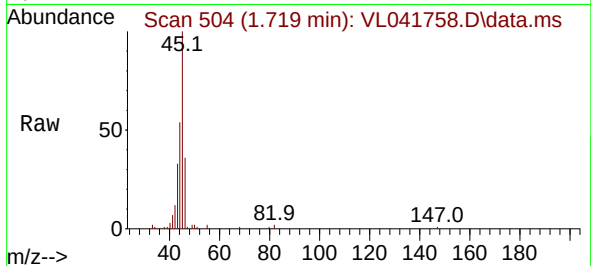
Tgt Ion:101 Resp: 135538
Ion Ratio Lower Upper
101 100
151 69.6 56.8 85.2





#13
Ethanol
Concen: 9.509 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

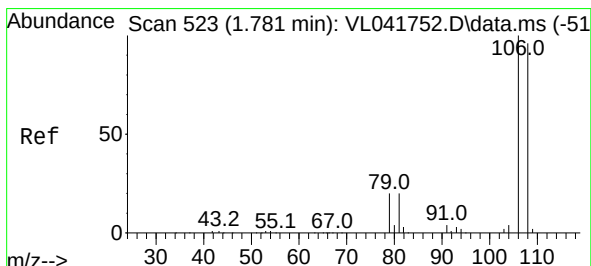
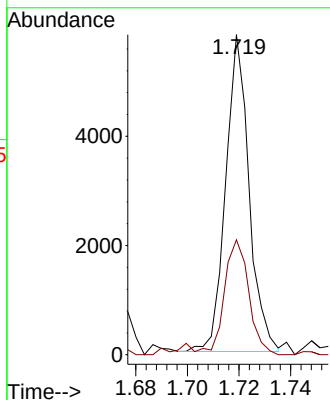
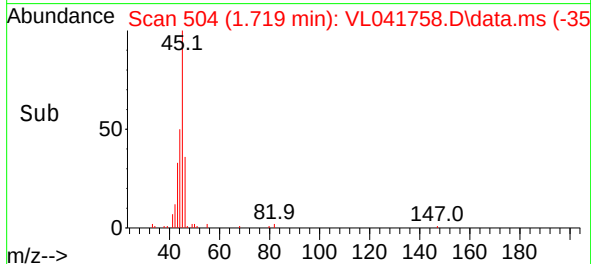
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



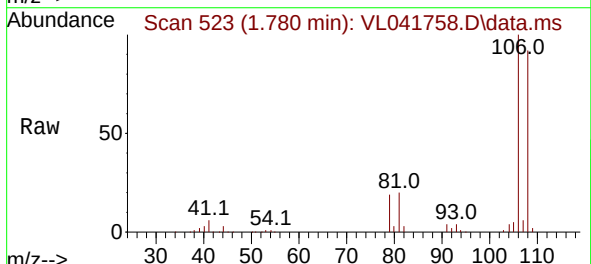
Tgt Ion: 45 Resp: 364
Ion Ratio Lower Upper
45 100
46 41.2 16.4 65.8

Manual Integrations
APPROVED

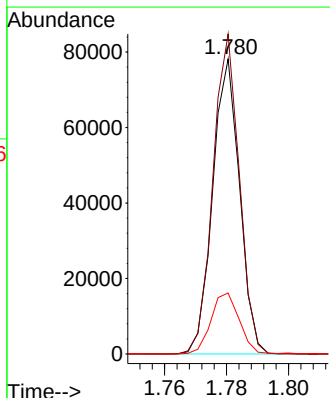
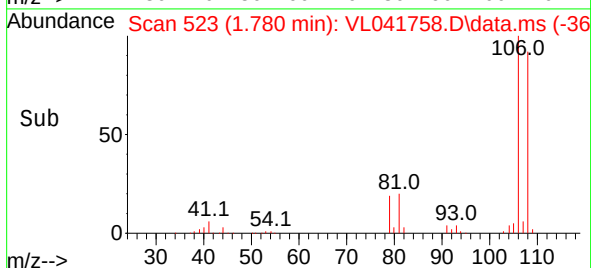
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

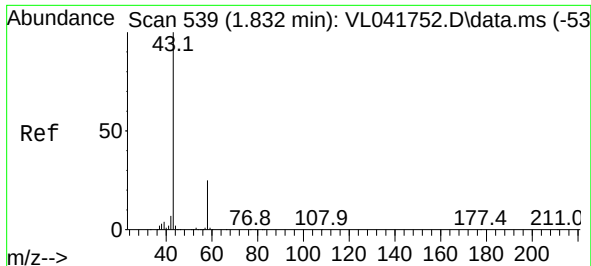


#14
Bromoethene
Concen: 14.898 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



Tgt Ion:108 Resp: 47132
Ion Ratio Lower Upper
108 100
106 105.9 84.1 126.1
79 22.1 17.4 26.0





#15

Acetone

Concen: 11.273 ppbv

RT: 1.832 min Scan# 539

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 43 Resp: 142980

Ion Ratio Lower Upper

43 100

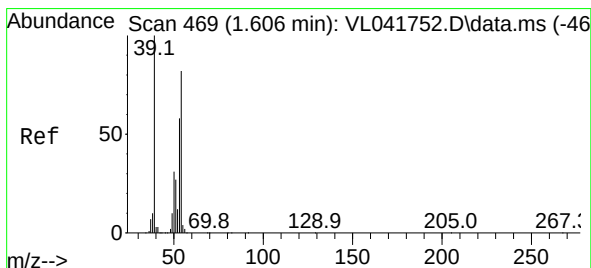
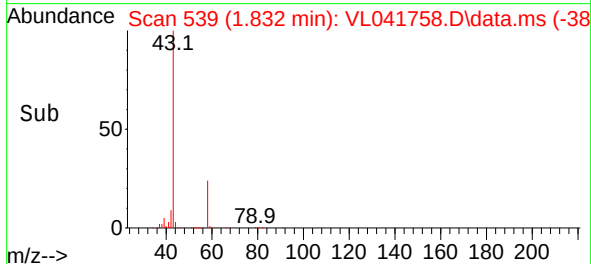
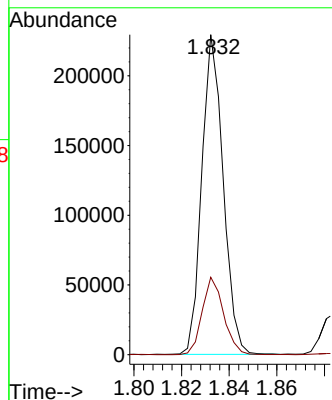
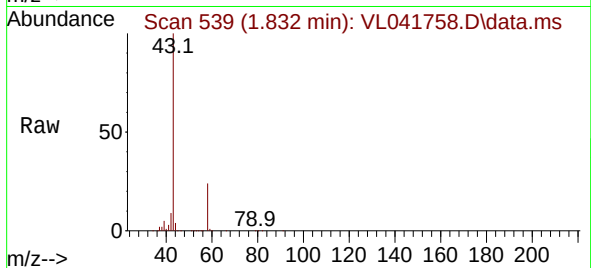
58 24.4 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#16

1,3-Butadiene

Concen: 13.678 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL041758.D

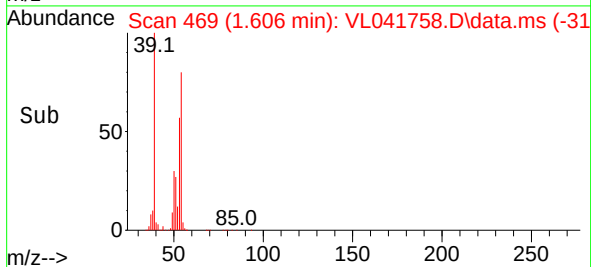
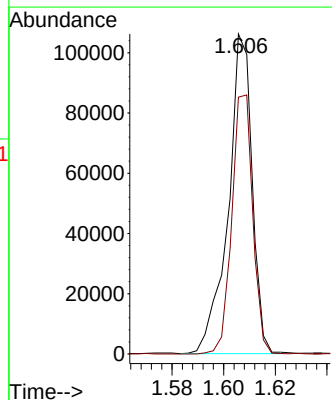
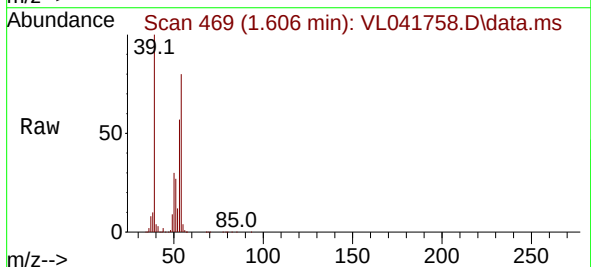
Acq: 16 Dec 2024 16:41

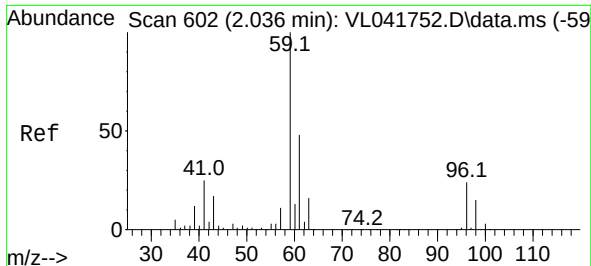
Tgt Ion: 39 Resp: 68311

Ion Ratio Lower Upper

39 100

54 71.3 58.4 87.6





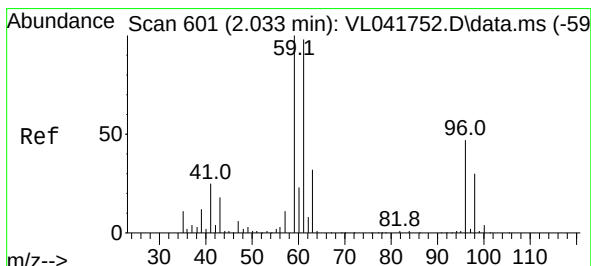
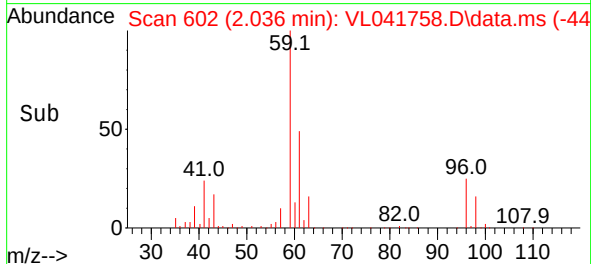
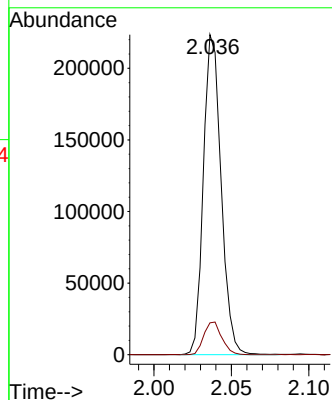
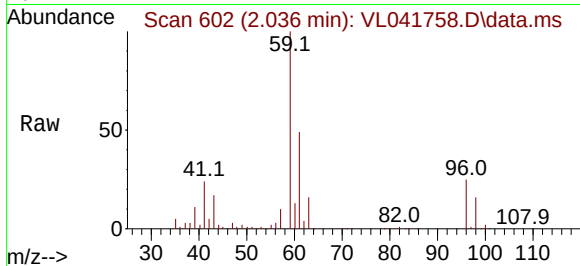
#17
tert-Butyl alcohol
Concen: 14.140 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 177908
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0

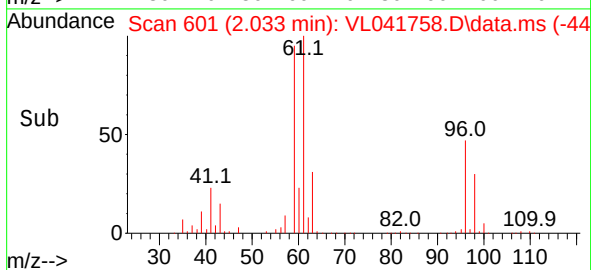
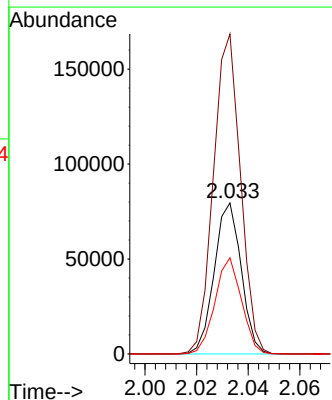
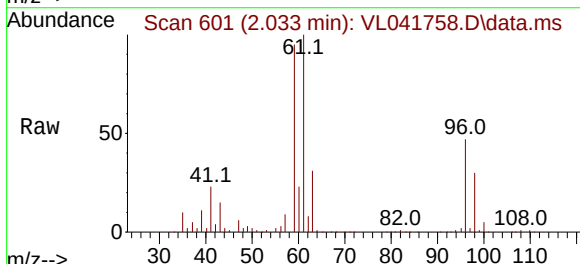
Manual Integrations
APPROVED

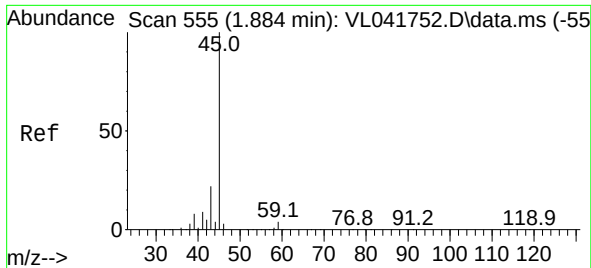
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#18
1,1-Dichloroethene
Concen: 14.705 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 96 Resp: 57770
Ion Ratio Lower Upper
96 100
61 211.8 167.7 251.5
98 63.6 51.1 76.7





#19

Isopropyl Alcohol

Concen: 10.802 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 45 Resp: 8221

Ion Ratio Lower Upper

45 100

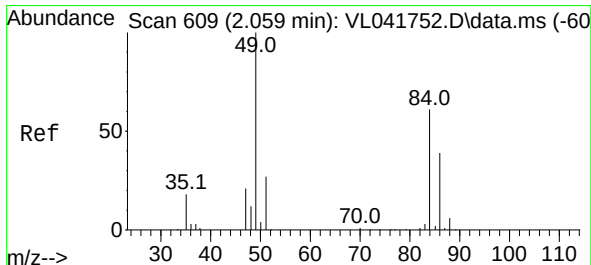
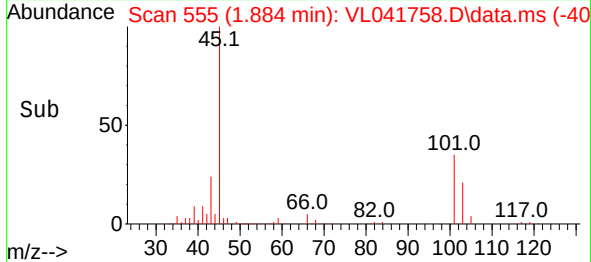
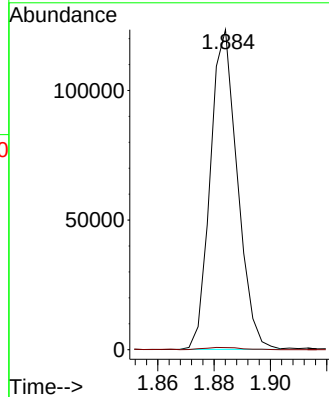
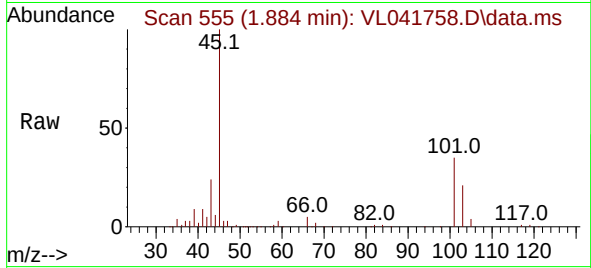
58 42.5 33.3 49.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#20

Methylene Chloride

Concen: 13.371 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion: 84 Resp: 48356

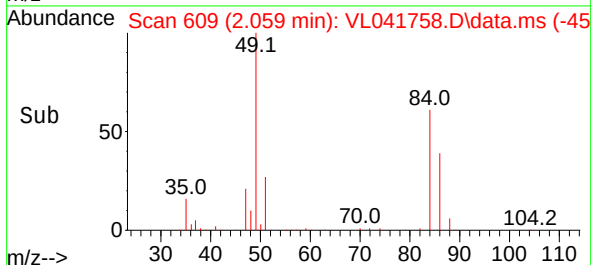
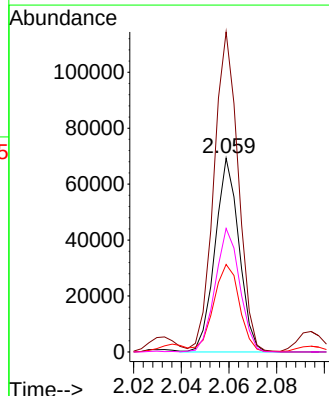
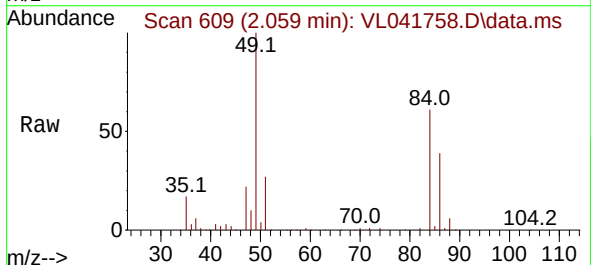
Ion Ratio Lower Upper

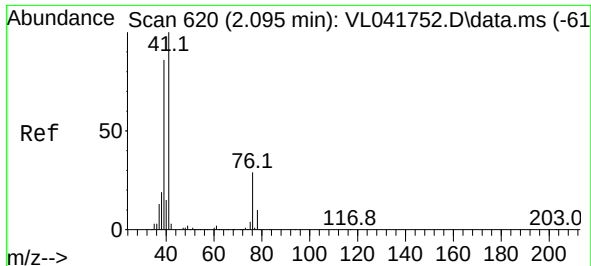
84 100

49 164.9 132.6 198.8

51 44.9 37.6 56.4

86 63.8 51.4 77.0





#21

Allyl Chloride

Concen: 14.760 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 101528

Ion Ratio Lower Upper

41 100

76 27.3 22.3 33.5

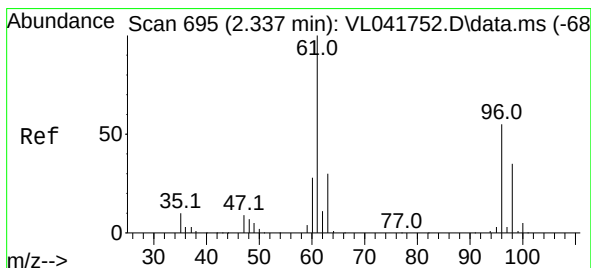
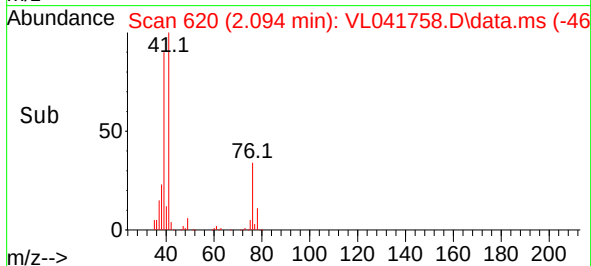
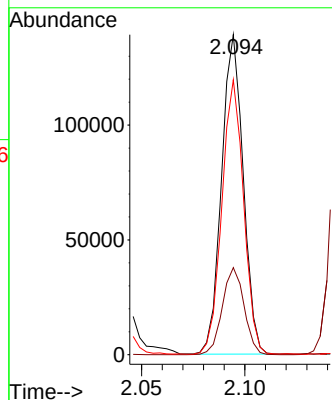
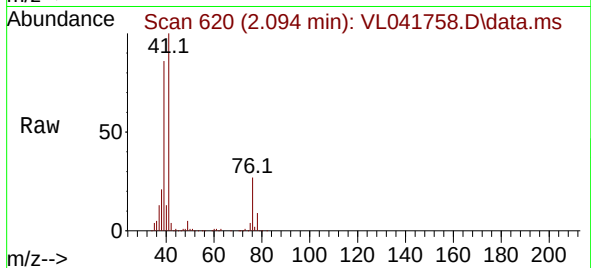
39 86.2 69.2 103.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#22

trans-1,2-Dichloroethene

Concen: 14.461 ppbv

RT: 2.337 min Scan# 695

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

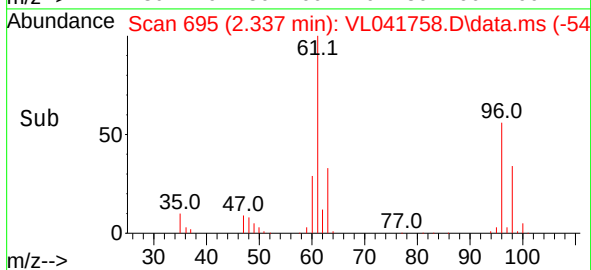
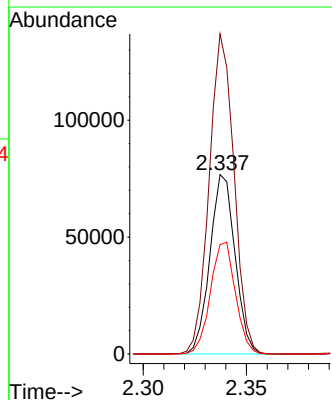
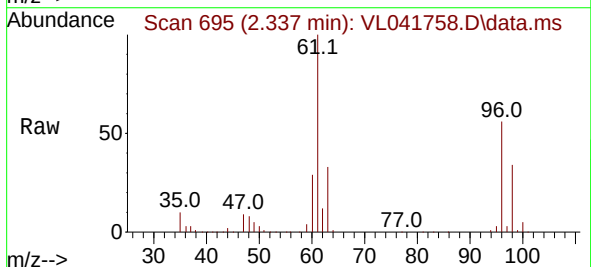
Tgt Ion: 96 Resp: 65029

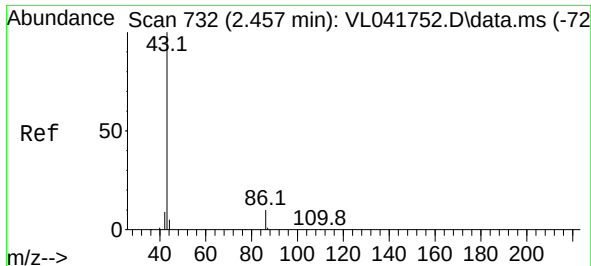
Ion Ratio Lower Upper

96 100

61 178.4 146.3 219.5

98 60.9 50.8 76.2





#23
 Vinyl Acetate
 Concen: 14.661 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

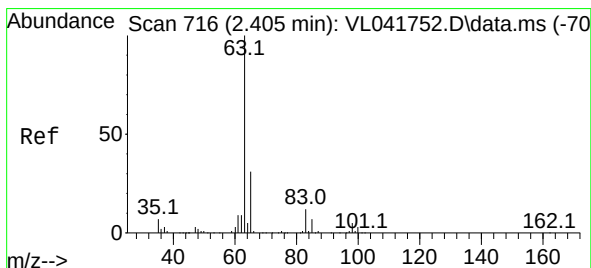
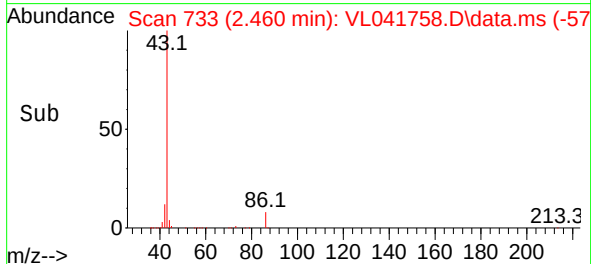
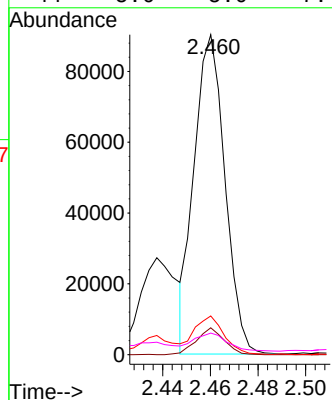
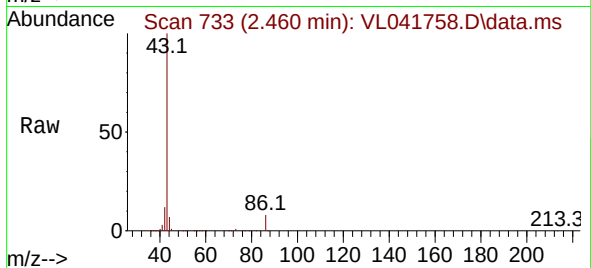
VSTDICC015

Tgt Ion: 43 Resp: 80795
 Ion Ratio Lower Upper
 43 100
 86 8.4 6.6 10.0
 42 11.8 8.2 12.2
 44 5.6 5.0 7.4

Manual Integrations

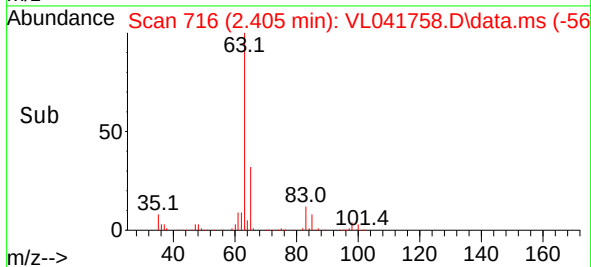
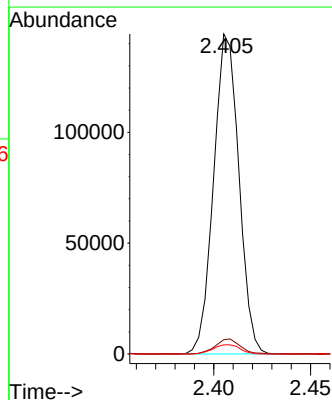
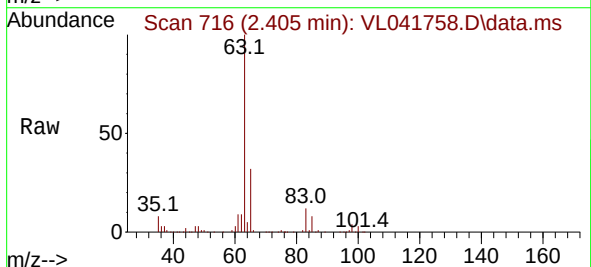
APPROVED

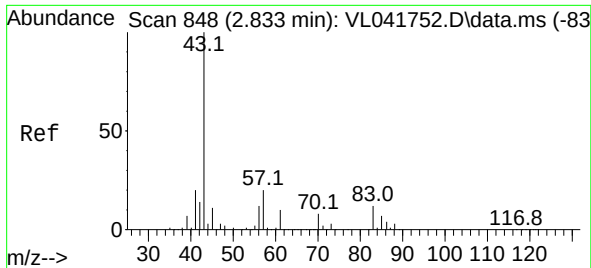
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#24
 1,1-Dichloroethane
 Concen: 14.394 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Tgt Ion: 63 Resp: 131030
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 2.8 1.4 4.2





#25
Ethyl Acetate
Concen: 14.402 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

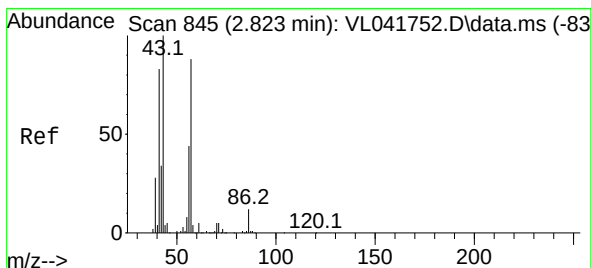
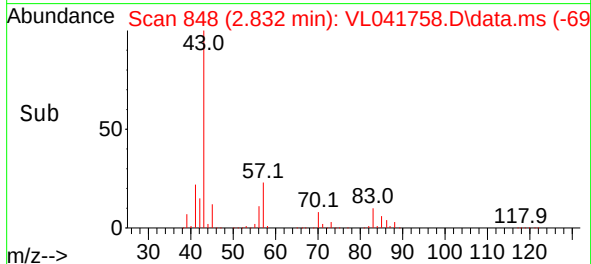
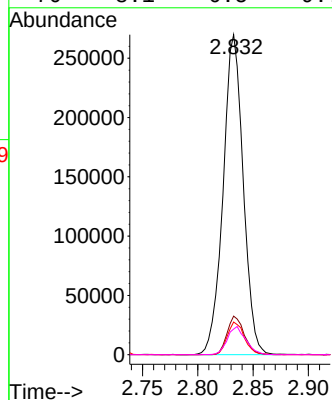
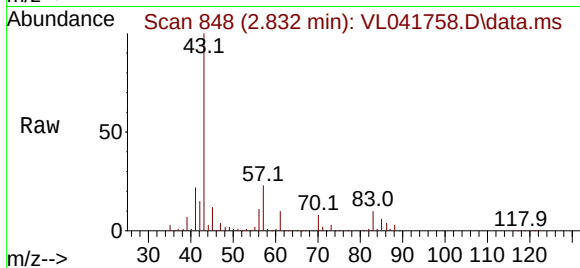
VSTDICC015

Tgt Ion: 43 Resp: 341429
Ion Ratio Lower Upper
43 100
45 10.3 8.1 12.1
61 8.7 7.0 10.6
70 8.1 6.5 9.7

Manual Integrations

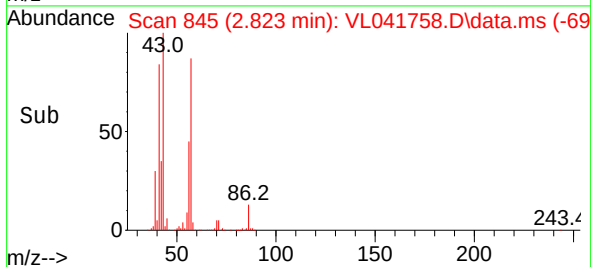
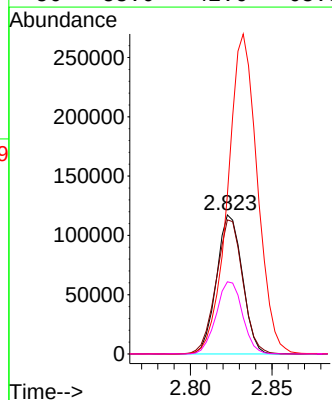
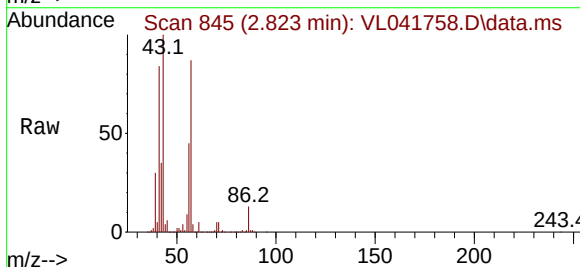
APPROVED

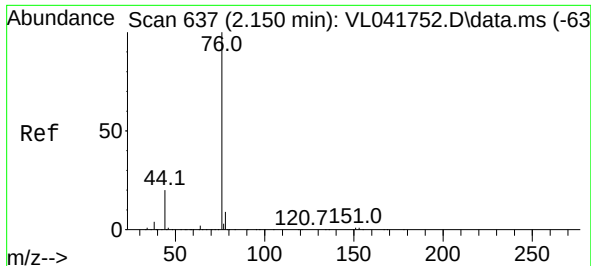
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#26
Hexane
Concen: 14.369 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 57 Resp: 128657
Ion Ratio Lower Upper
57 100
41 100.1 79.6 119.4
43 265.4 211.0 316.6
56 53.0 42.6 63.8





#27

Carbon Disulfide

Concen: 16.726 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 134963

Ion Ratio Lower Upper

76 100

44 22.4 17.6 26.4

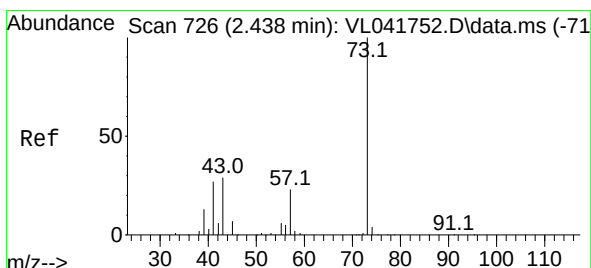
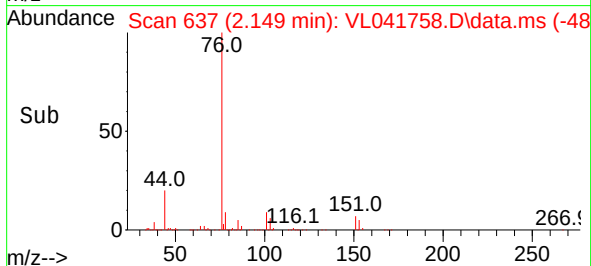
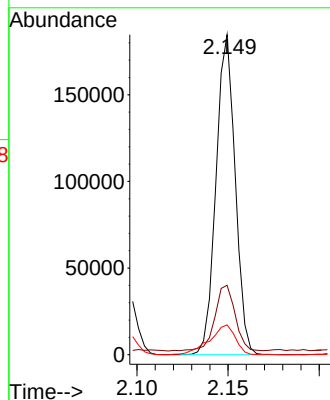
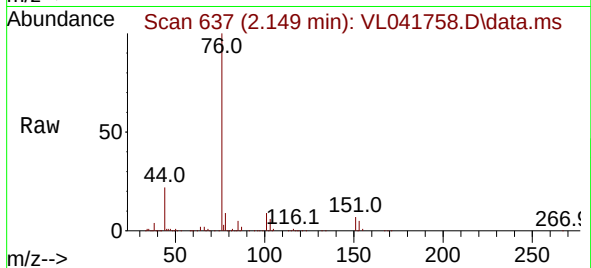
78 12.5 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#28

Methyl tert-Butyl Ether

Concen: 13.871 ppbv

RT: 2.438 min Scan# 726

Delta R.T. -0.000 min

Lab File: VL041758.D

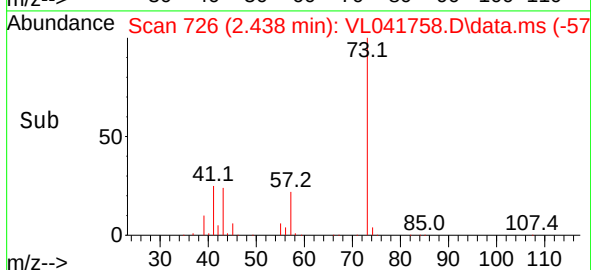
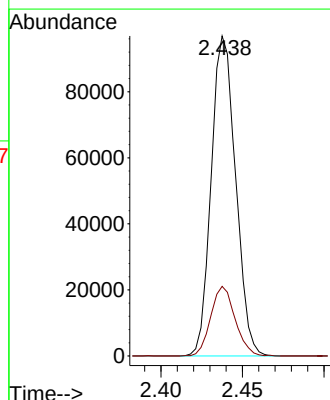
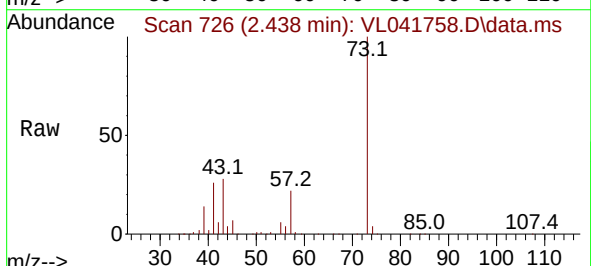
Acq: 16 Dec 2024 16:41

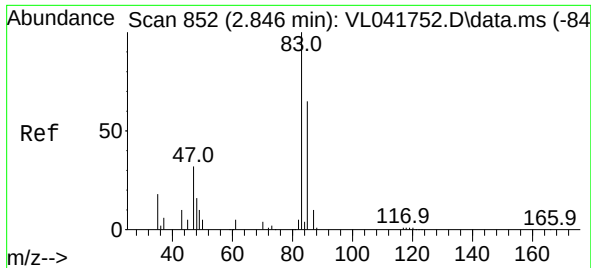
Tgt Ion: 73 Resp: 100758

Ion Ratio Lower Upper

73 100

57 21.8 17.6 26.4





#29

Chloroform

Concen: 14.489 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 83 Resp: 197713

Ion Ratio Lower Upper

83 100

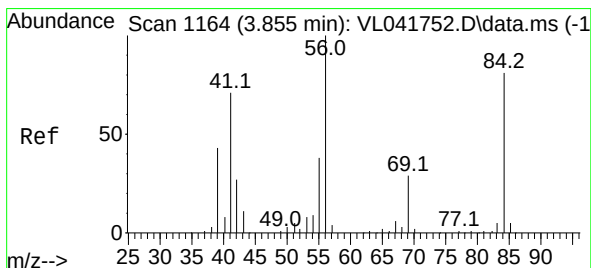
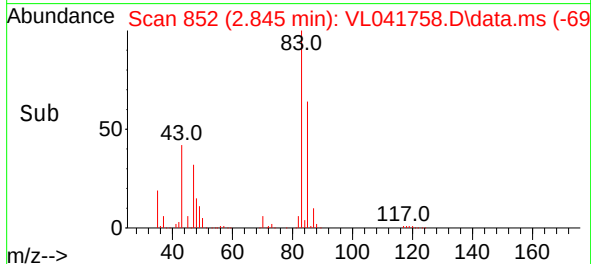
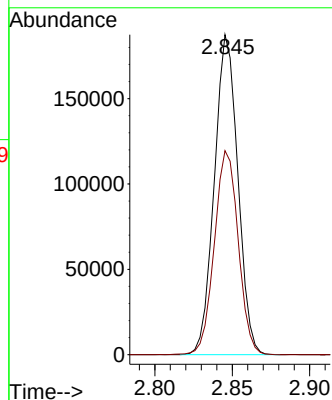
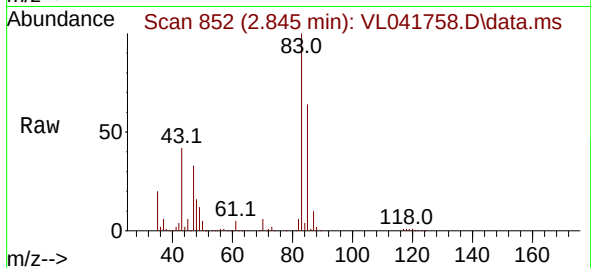
85 63.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 14.497 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

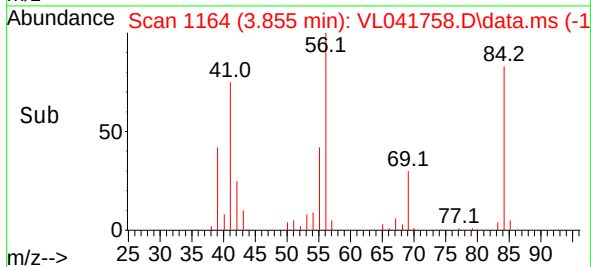
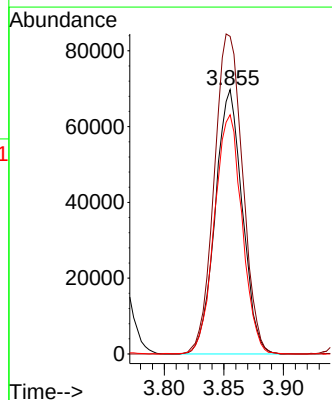
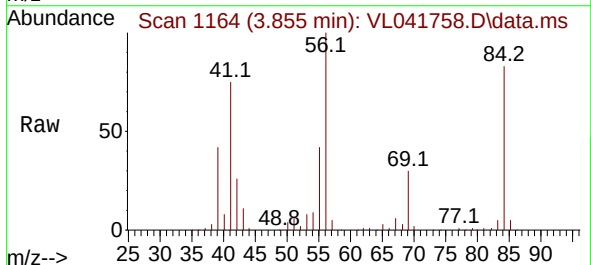
Tgt Ion: 84 Resp: 110448

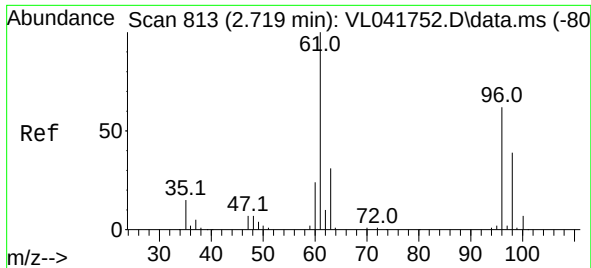
Ion Ratio Lower Upper

84 100

56 126.9 102.3 153.5

41 92.2 74.0 111.0





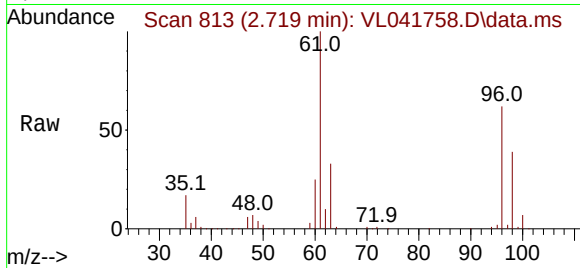
#31
cis-1,2-Dichloroethene
Concen: 14.355 ppbv
RT: 2.719 min Scan# 813
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

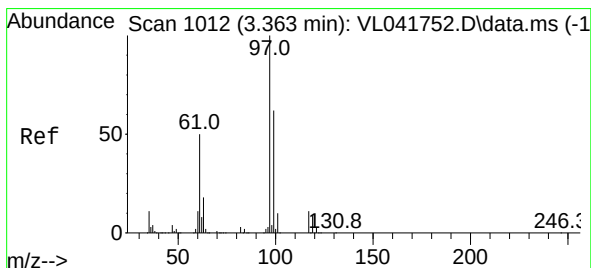
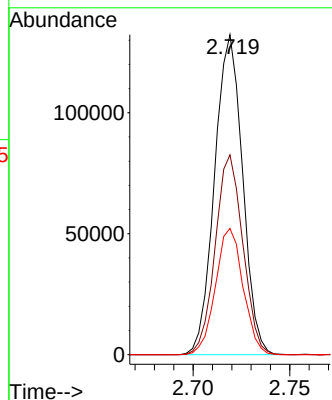
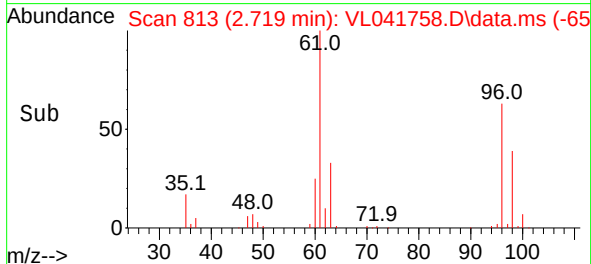


Tgt Ion: 61 Resp: 13282
Ion Ratio Lower Upper
61 100
96 62.4 49.7 74.5
98 39.4 30.8 46.2

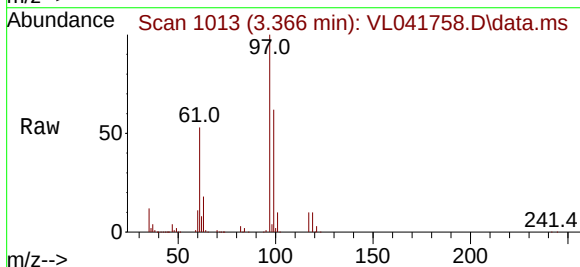
Manual Integrations

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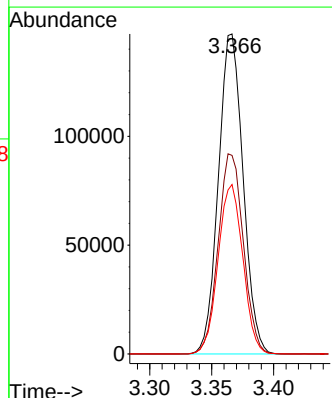
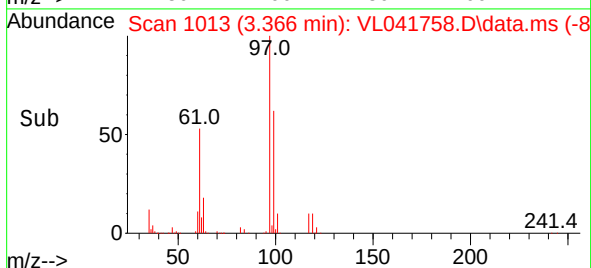
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

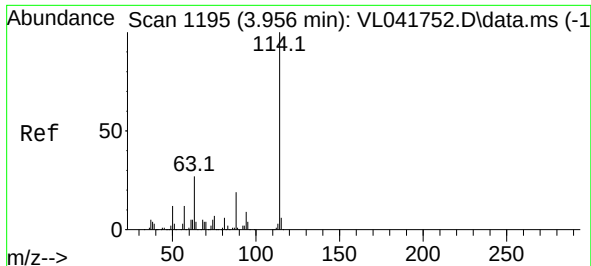


#32
1,1,1-Trichloroethane
Concen: 15.055 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



Tgt Ion: 97 Resp: 204468
Ion Ratio Lower Upper
97 100
99 63.6 51.0 76.4
61 53.1 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

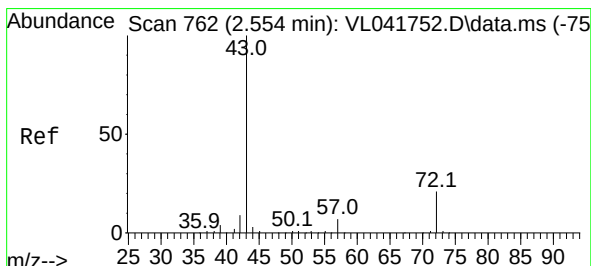
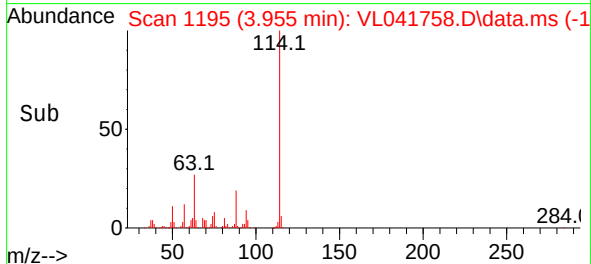
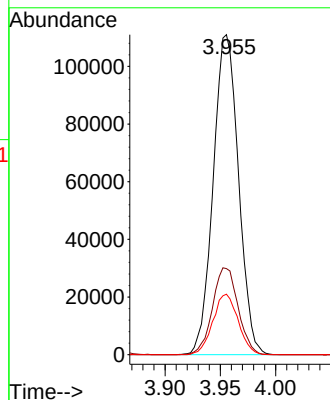
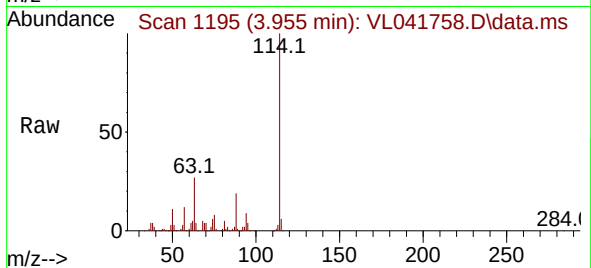
VSTDICC015

Tgt Ion:114	Resp:	176850
Ion Ratio	Lower	Upper
114	100	
63	27.5	21.8 32.8
88	18.9	14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#34

2-Butanone

Concen: 13.736 ppbv

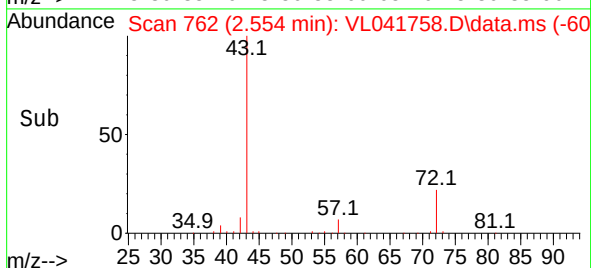
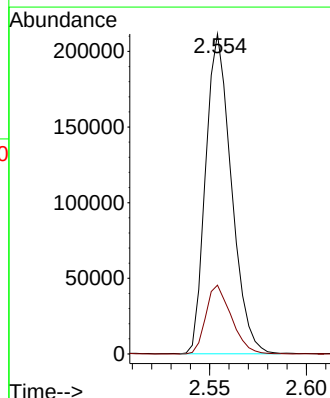
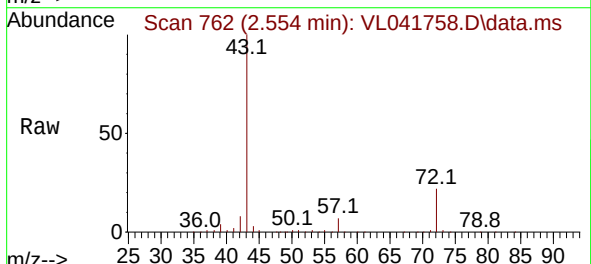
RT: 2.554 min Scan# 762

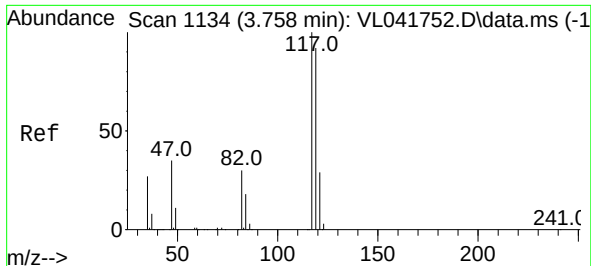
Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

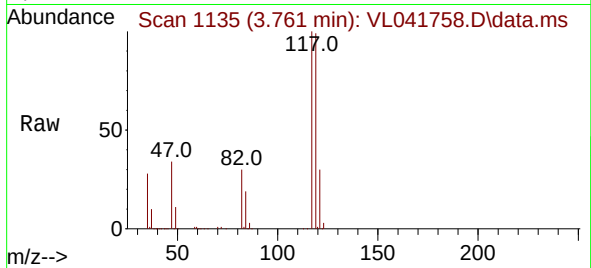
Tgt Ion: 43	Resp:	195439
Ion Ratio	Lower	Upper
43	100	
72	21.4	16.8 25.2





#35
Carbon Tetrachloride
Concen: 16.428 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

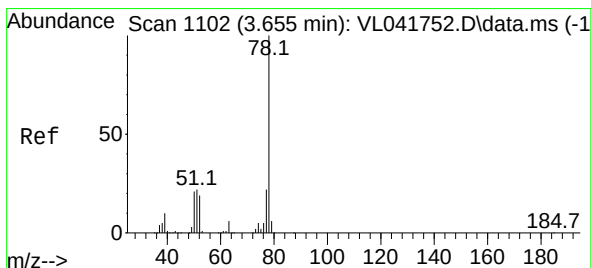
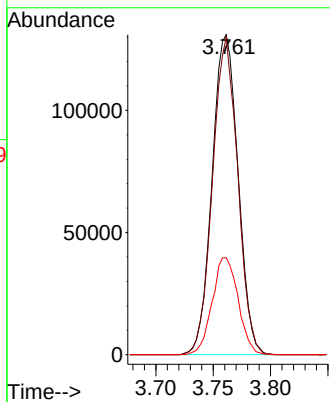
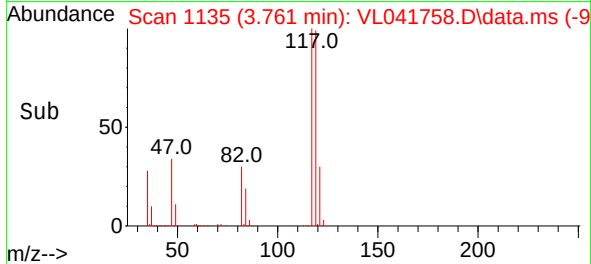
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 20625
Ion Ratio Lower Upper
117 100
119 99.2 73.7 110.5
121 30.3 23.0 34.4

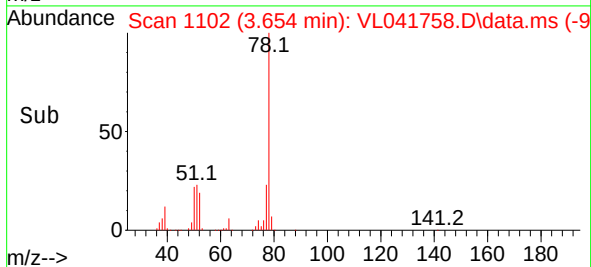
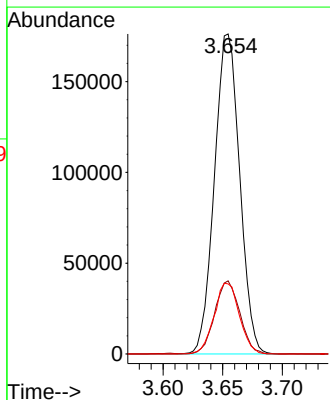
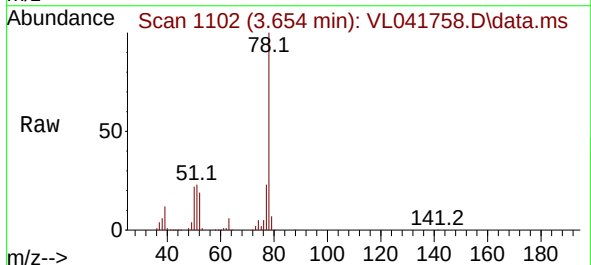
Manual Integrations
APPROVED

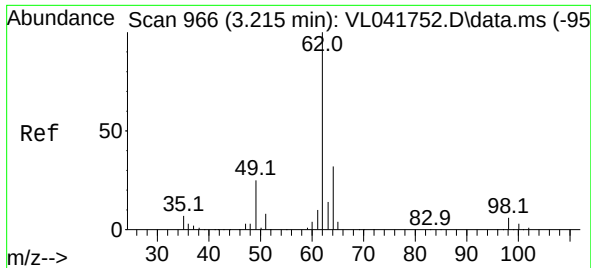
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#36
Benzene
Concen: 14.192 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 78 Resp: 259630
Ion Ratio Lower Upper
78 100
77 22.8 17.8 26.6
50 21.9 17.2 25.8





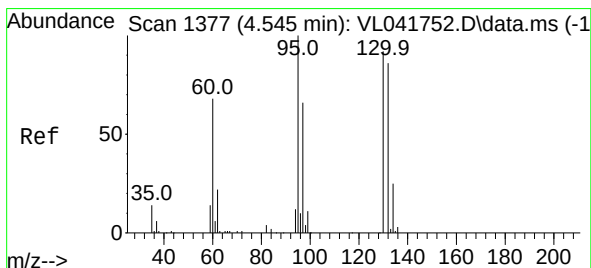
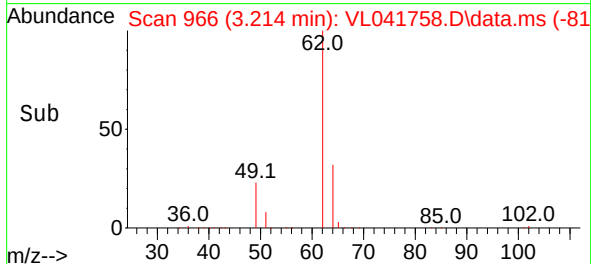
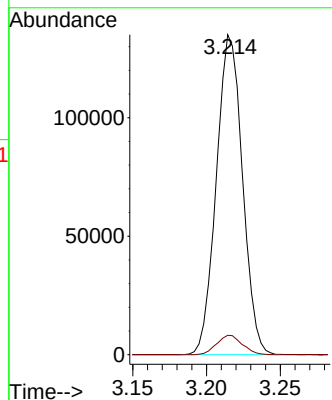
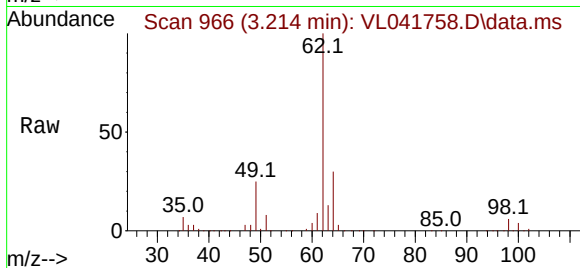
#37
1,2-Dichloroethane
Concen: 14.633 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 166570
Ion Ratio Lower Upper
62 100
98 5.9 4.7 7.1

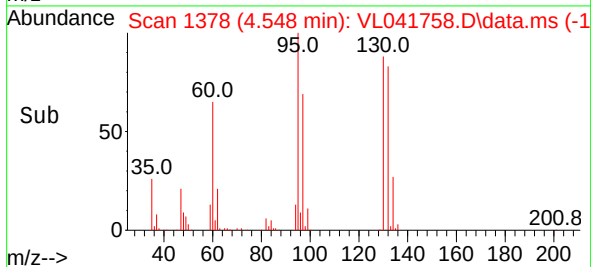
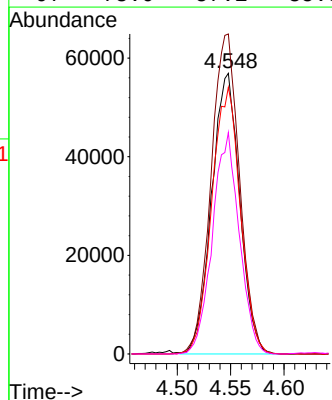
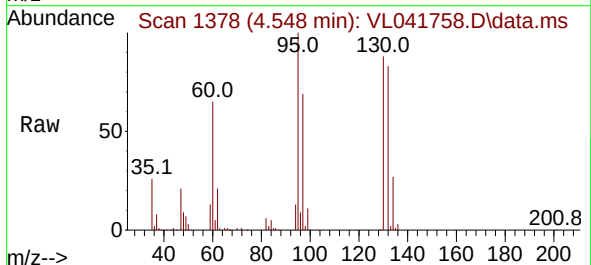
Manual Integrations
APPROVED

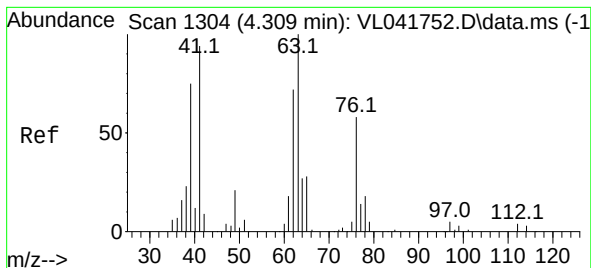
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38
Trichloroethene
Concen: 13.525 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:130 Resp: 104184
Ion Ratio Lower Upper
130 100
95 114.0 87.0 130.6
132 95.0 75.0 112.6
97 78.9 57.2 85.8





#39

1,2-Dichloropropane

Concen: 14.150 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

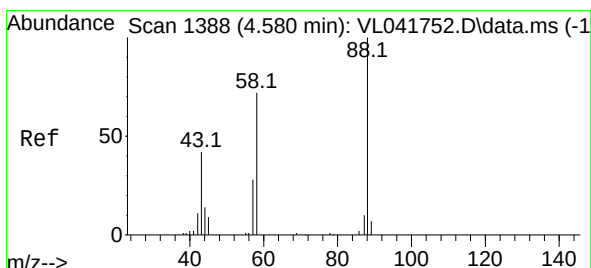
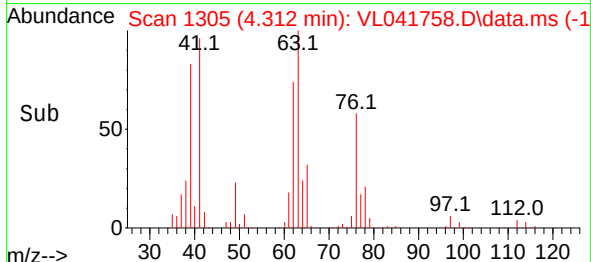
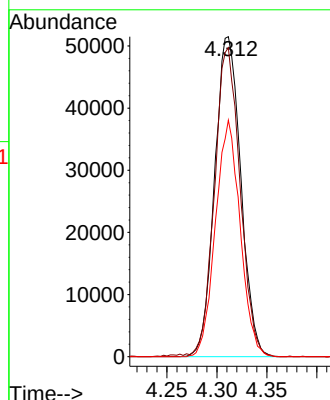
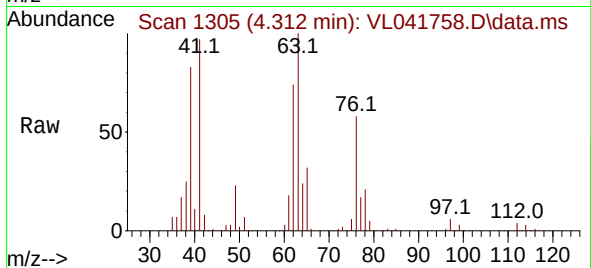
Tgt Ion: 63 Resp: 93624

Ion	Ratio	Lower	Upper
63	100		
41	96.6	75.3	112.9
62	73.9	57.3	85.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#40

1,4-Dioxane

Concen: 13.730 ppbv

RT: 4.577 min Scan# 1387

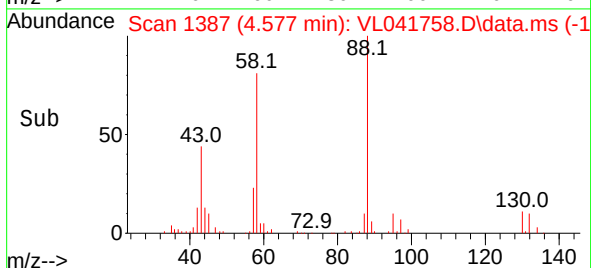
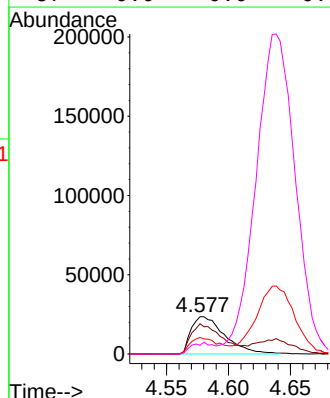
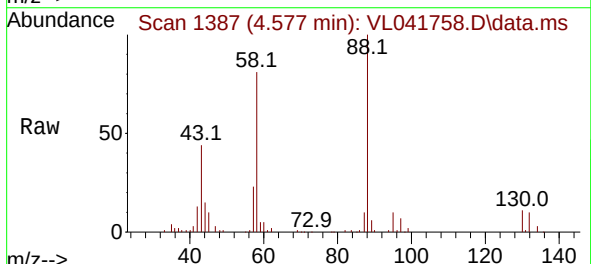
Delta R.T. -0.003 min

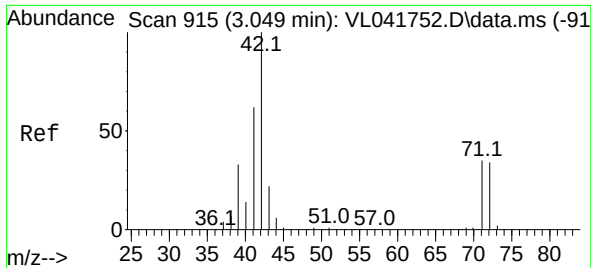
Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion: 88 Resp: 44377

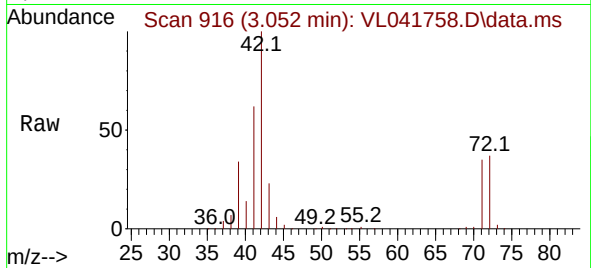
Ion	Ratio	Lower	Upper
88	100		
58	77.8	61.0	91.6
43	42.4	29.4	44.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 14.254 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

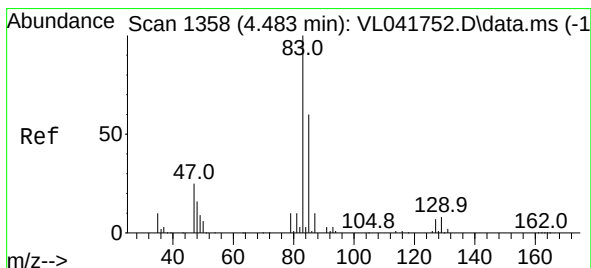
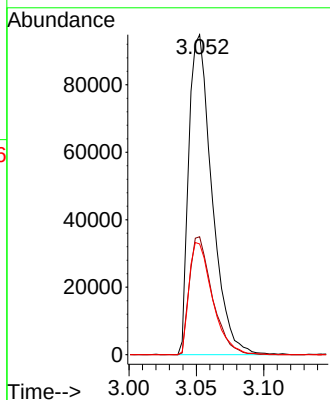
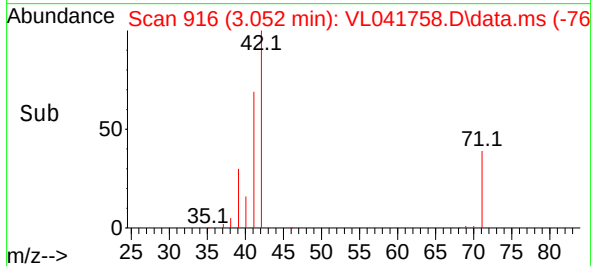
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



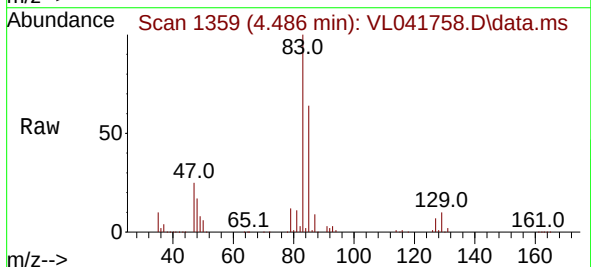
Tgt Ion: 42 Resp: 113618
Ion Ratio Lower Upper
42 100
72 36.4 29.1 43.7
71 35.3 28.4 42.6

Manual Integrations
APPROVED

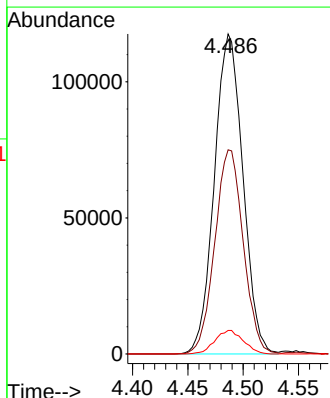
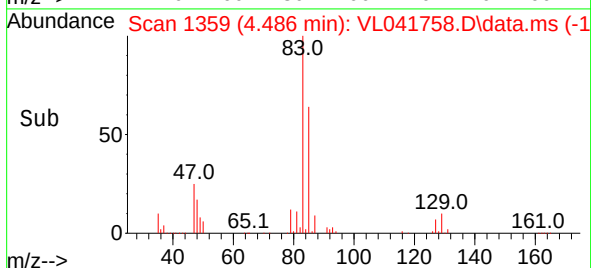
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

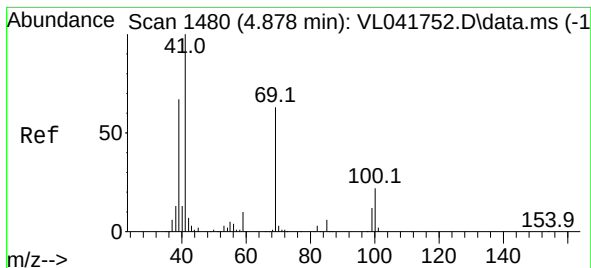


#42
Bromodichloromethane
Concen: 16.123 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



Tgt Ion: 83 Resp: 211145
Ion Ratio Lower Upper
83 100
85 63.7 48.0 72.0
127 7.3 5.8 8.8





#43

Methyl Methacrylate

Concen: 15.374 ppbv

RT: 4.878 min Scan# 1480

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 69 Resp: 10716

Ion Ratio Lower Upper

69 100

41 162.6 130.3 195.5

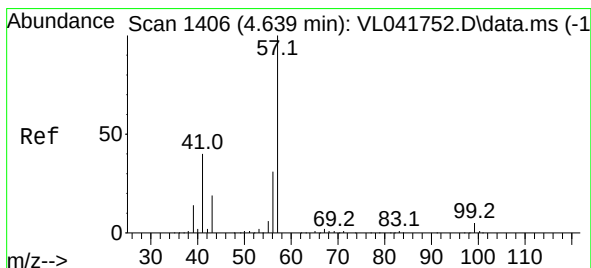
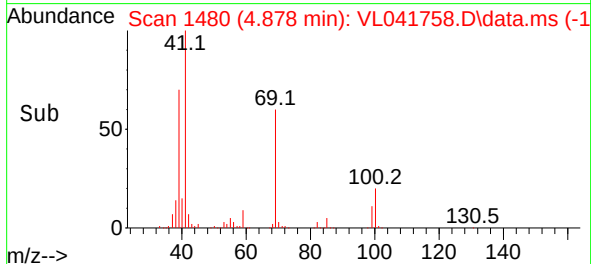
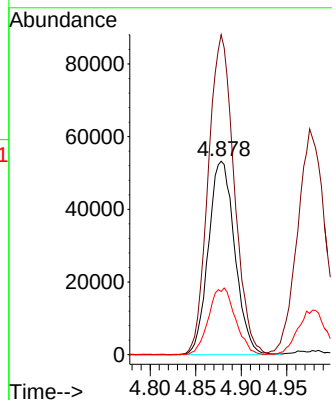
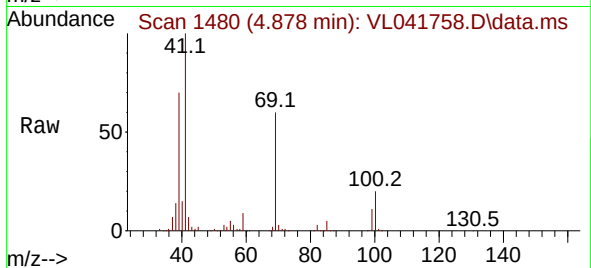
100 35.0 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#44

2,2,4-Trimethylpentane

Concen: 14.274 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

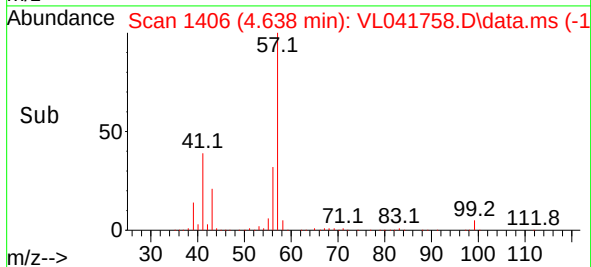
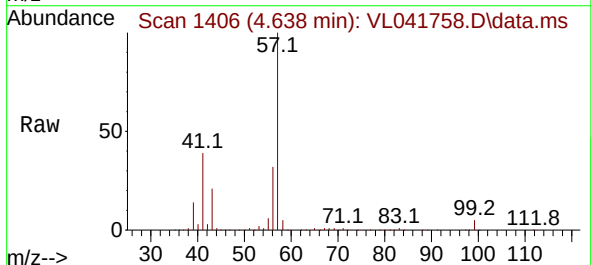
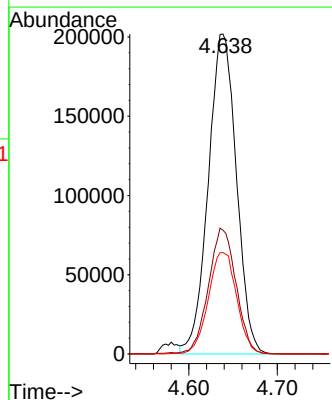
Tgt Ion: 57 Resp: 445947

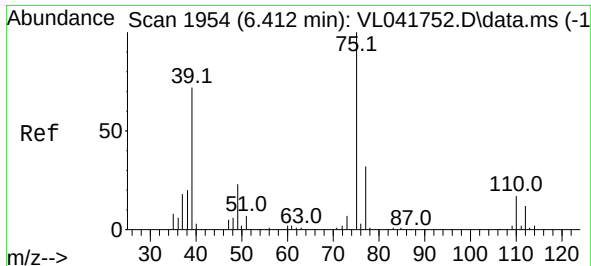
Ion Ratio Lower Upper

57 100

41 38.8 30.7 46.1

56 32.1 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 15.973 ppbv

RT: 6.409 min Scan# 1954

Delta R.T. -0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 75 Resp: 11515

Ion Ratio Lower Upper

75 100

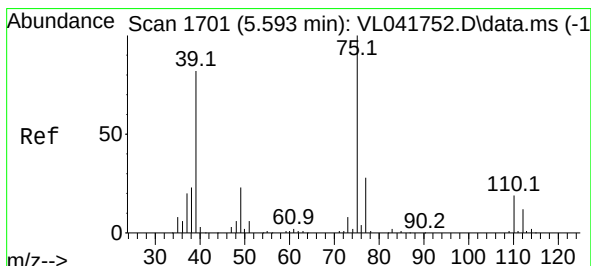
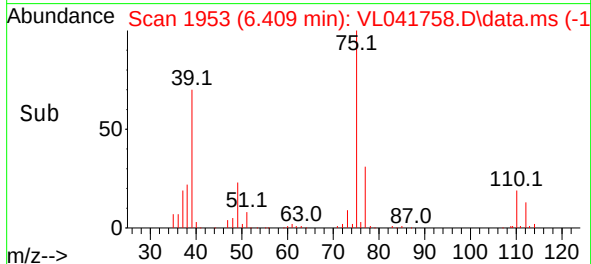
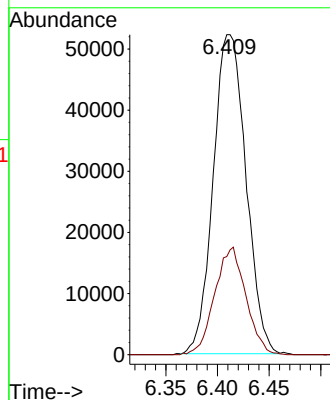
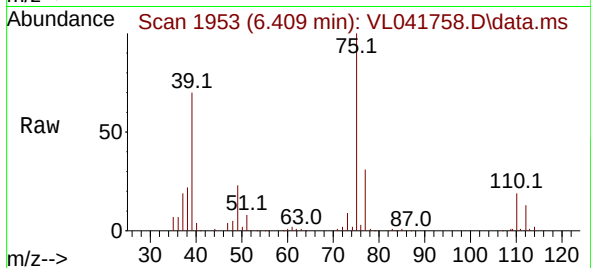
77 30.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#46

cis-1,3-Dichloropropene

Concen: 15.643 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.006 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

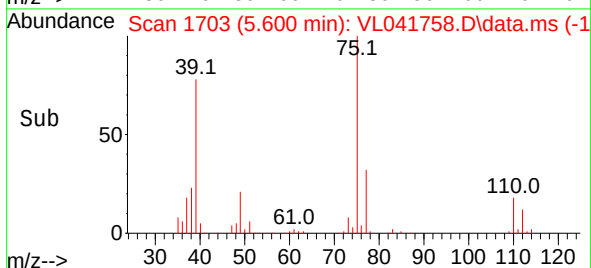
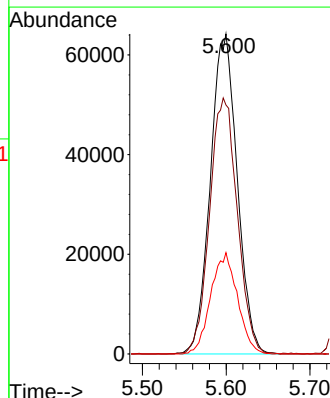
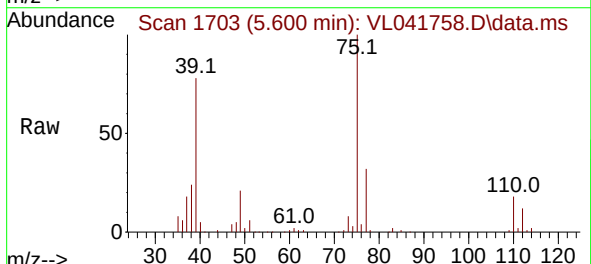
Tgt Ion: 75 Resp: 143172

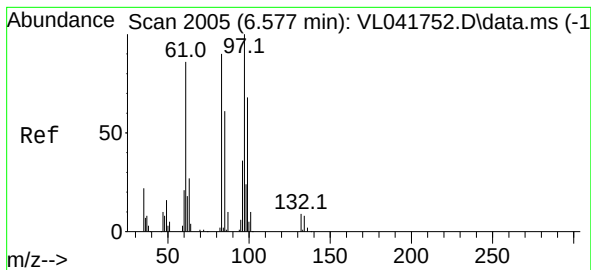
Ion Ratio Lower Upper

75 100

39 77.8 65.2 97.8

77 31.6 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 14.242 ppbv

RT: 6.580 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 98420

Ion Ratio Lower Upper

97 100

83 88.0 72.3 108.5

85 58.6 48.5 72.7

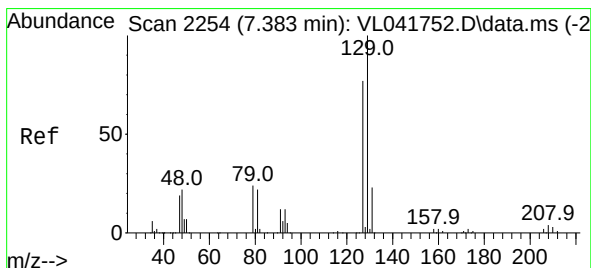
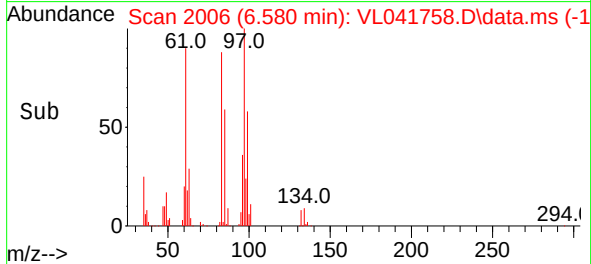
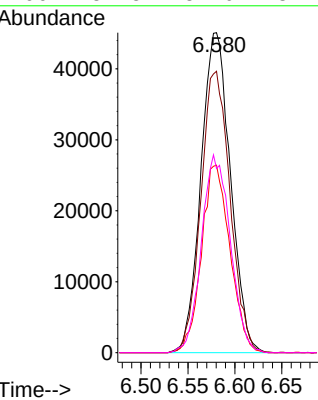
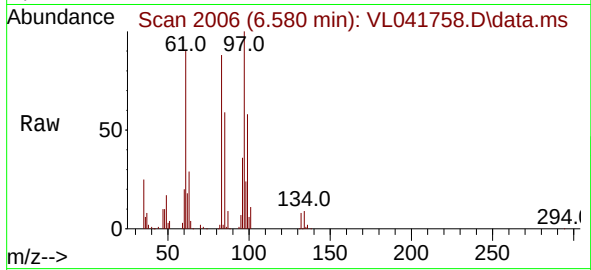
99 57.5 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#48

Dibromochloromethane

Concen: 17.131 ppbv

RT: 7.386 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL041758.D

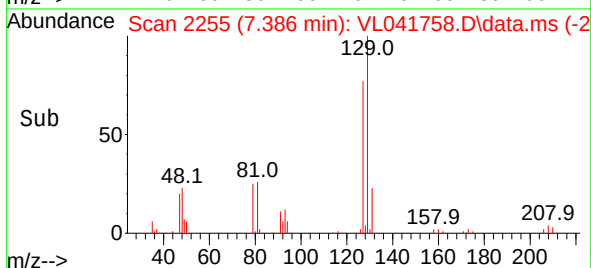
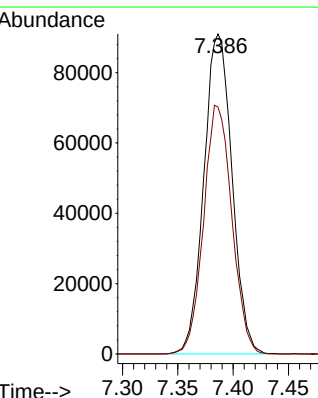
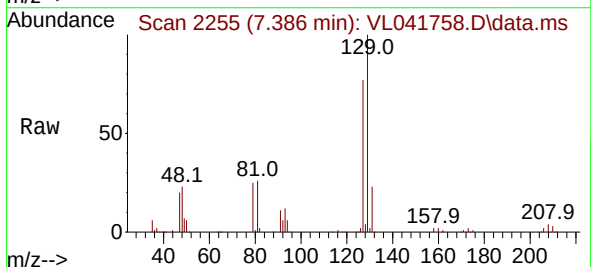
Acq: 16 Dec 2024 16:41

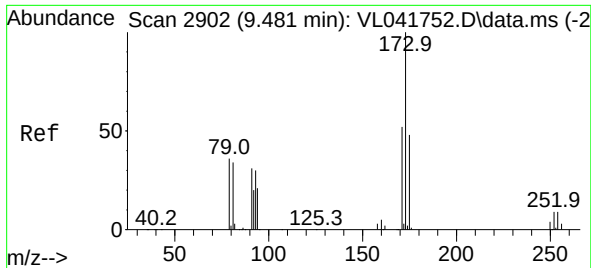
Tgt Ion:129 Resp: 161661

Ion Ratio Lower Upper

129 100

127 77.6 38.8 116.3





#49
Bromoform
Concen: 17.838 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

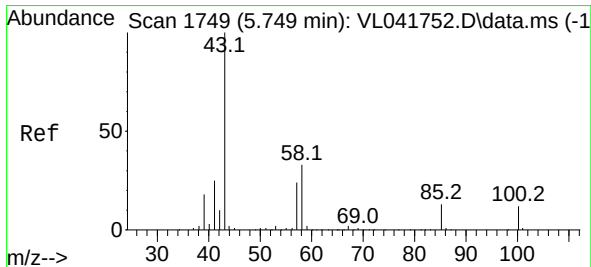
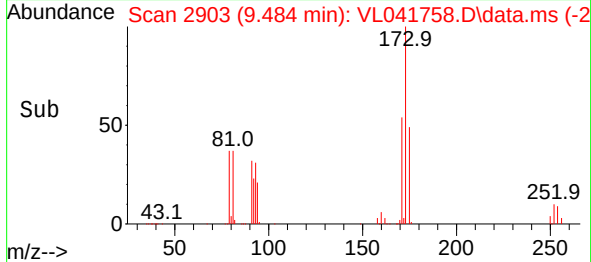
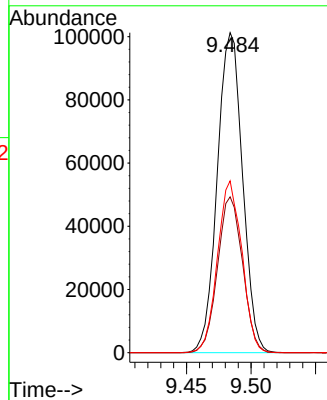
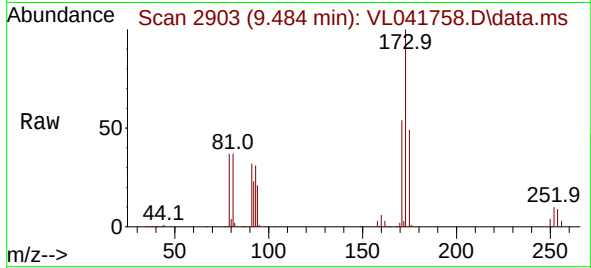
VSTDIC015

Tgt Ion:173 Resp: 137780
Ion Ratio Lower Upper
173 100
175 48.2 38.2 57.2
171 51.8 41.1 61.7

Manual Integrations

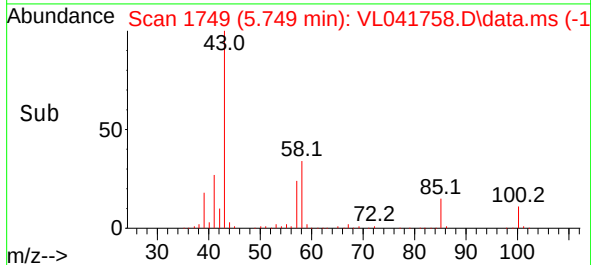
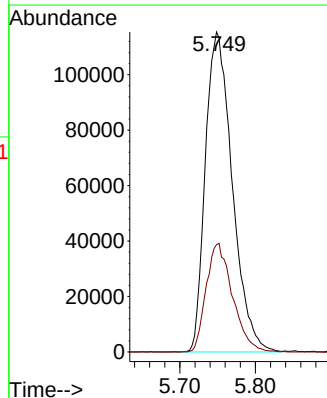
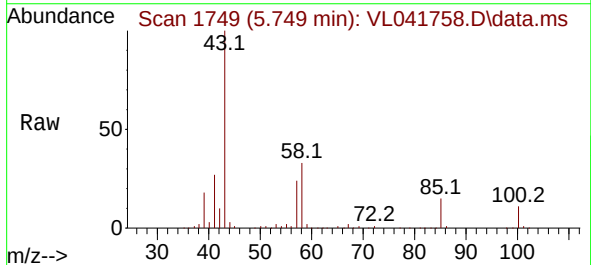
APPROVED

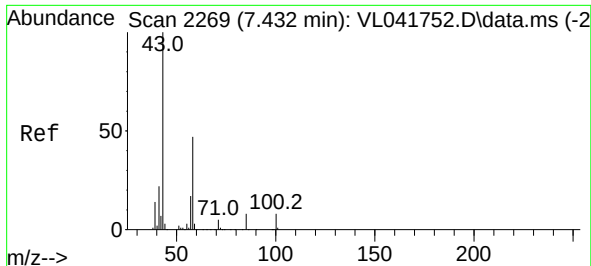
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#50
4-Methyl-2-Pentanone
Concen: 14.735 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

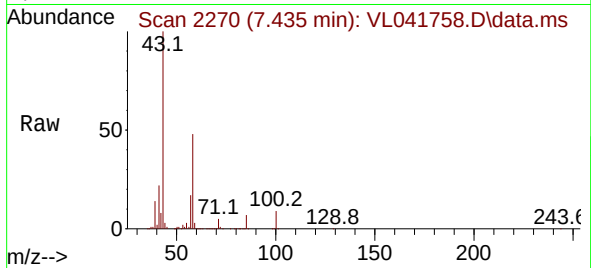
Tgt Ion: 43 Resp: 285467
Ion Ratio Lower Upper
43 100
58 33.2 26.8 40.2





#51
2-Hexanone
Concen: 14.798 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

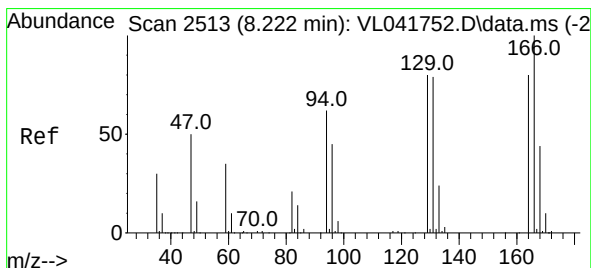
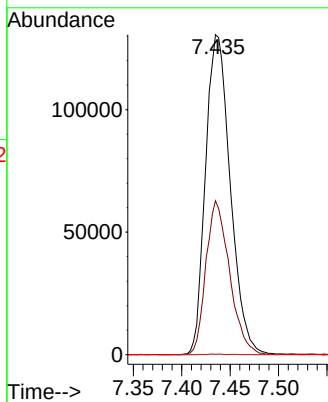
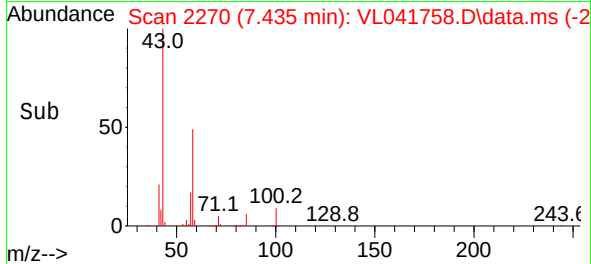
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



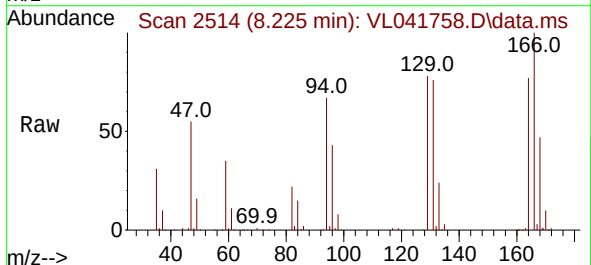
Tgt Ion: 43 Resp: 23236
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.2 0.1 0.1

Manual Integrations
APPROVED

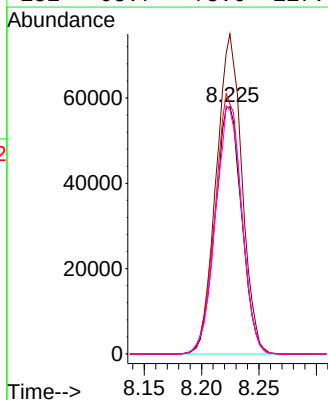
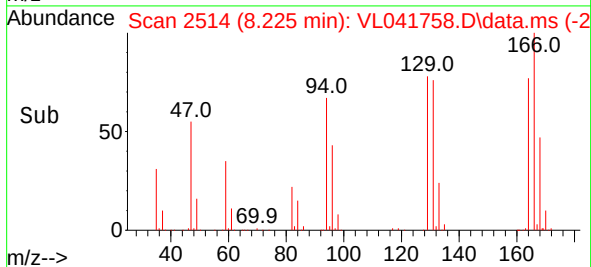
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

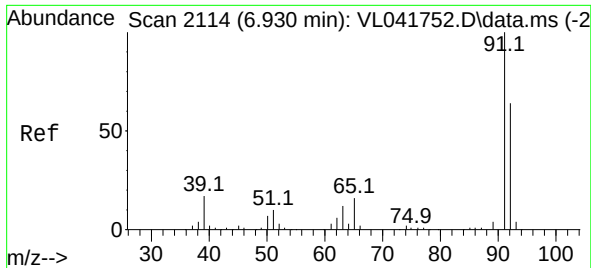


#52
Tetrachloroethene
Concen: 13.675 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



Tgt Ion:164 Resp: 93120
Ion Ratio Lower Upper
164 100
166 129.3 99.8 149.6
129 101.1 79.6 119.4
131 98.7 78.6 117.8





#53

Toluene

Concen: 14.533 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 301428

Ion Ratio Lower Upper

91 100

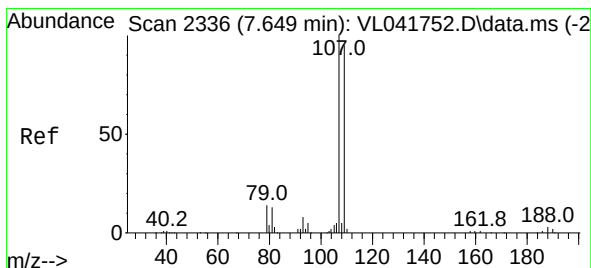
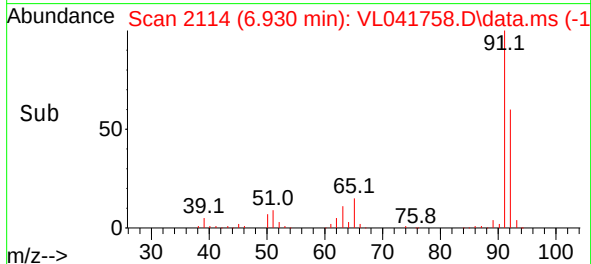
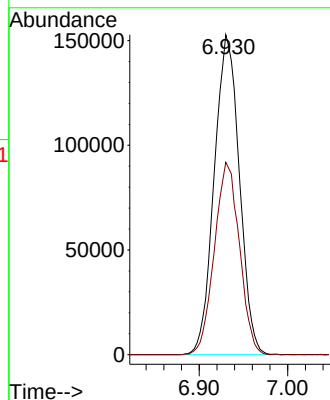
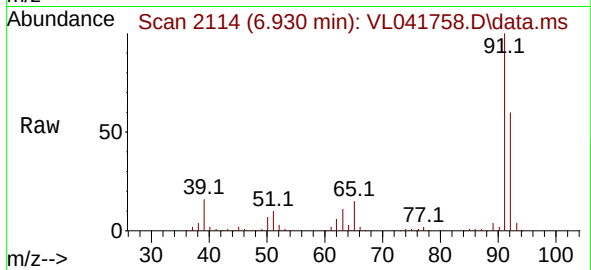
92 59.9 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#54

1,2-Dibromoethane

Concen: 14.690 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.003 min

Lab File: VL041758.D

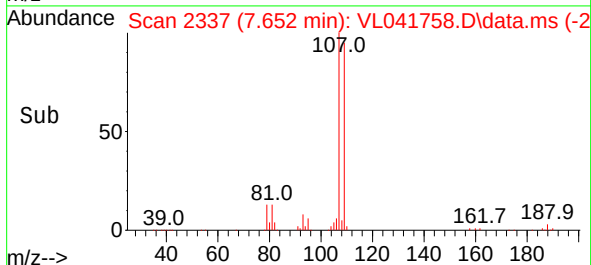
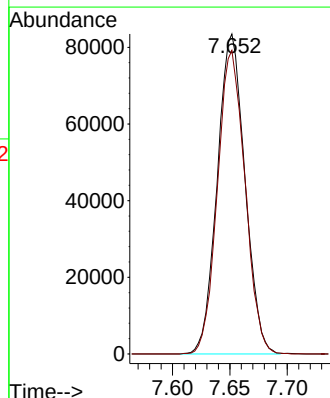
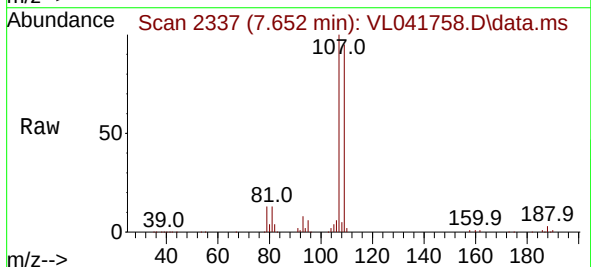
Acq: 16 Dec 2024 16:41

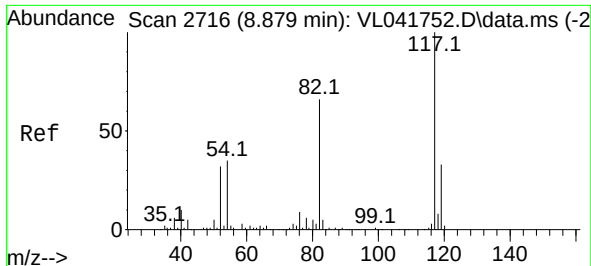
Tgt Ion:107 Resp: 139889

Ion Ratio Lower Upper

107 100

109 94.9 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

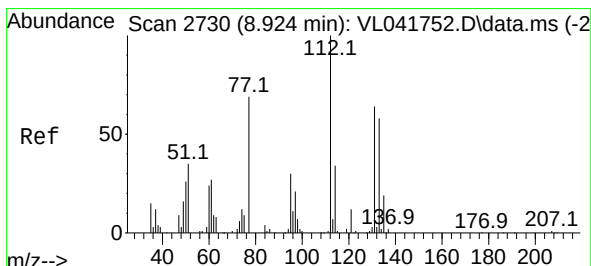
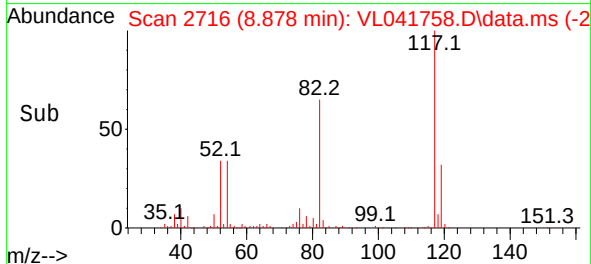
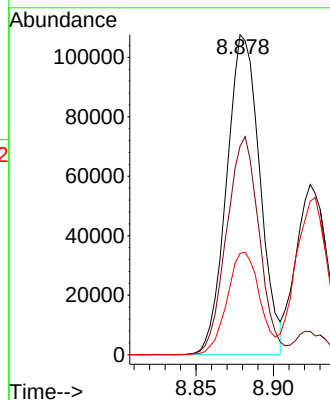
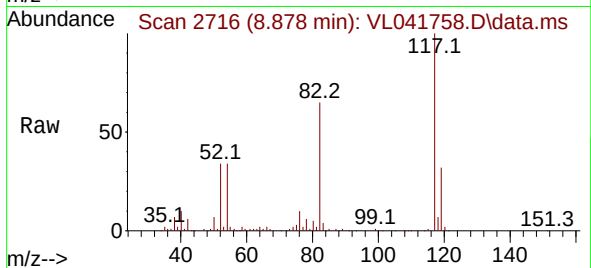
VSTDIC015

Tgt Ion:117	Resp: 16045
Ion Ratio	Lower Upper
117	100
82	67.5 53.8 80.8
119	31.6 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 15.059 ppbv

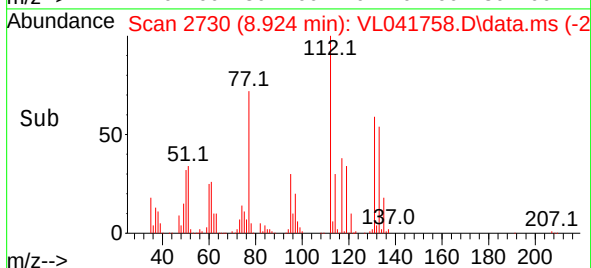
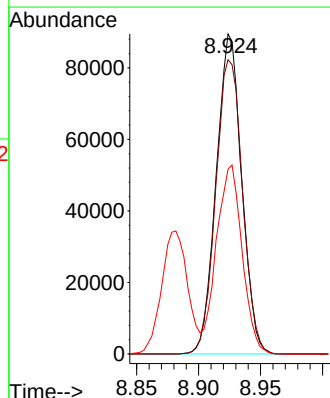
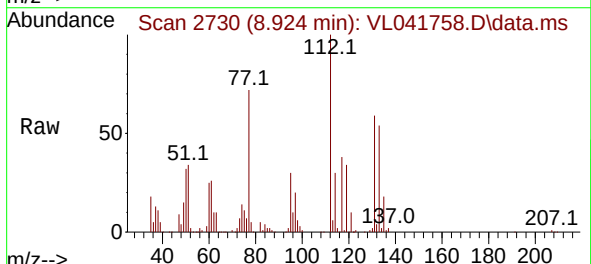
RT: 8.924 min Scan# 2730

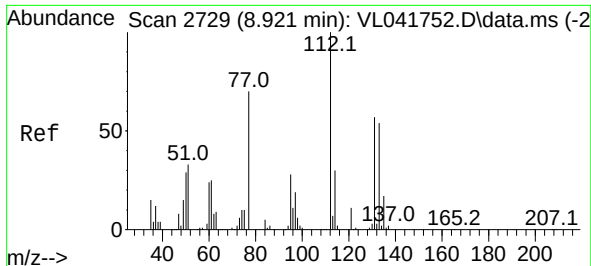
Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion:131	Resp: 128108
Ion Ratio	Lower Upper
131	100
133	96.7 76.8 115.2
119	59.9 49.0 73.6





#57

Chlorobenzene

Concen: 13.869 ppbv

RT: 8.924 min Scan# 2729

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

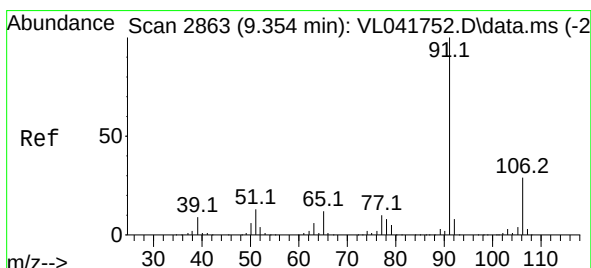
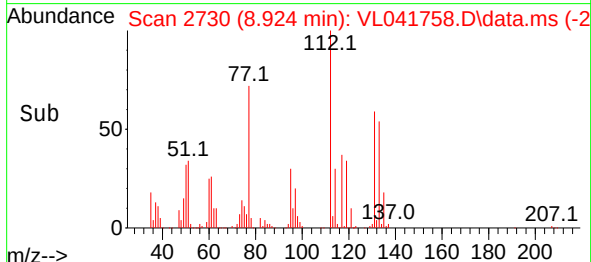
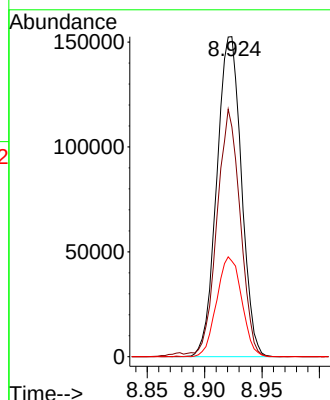
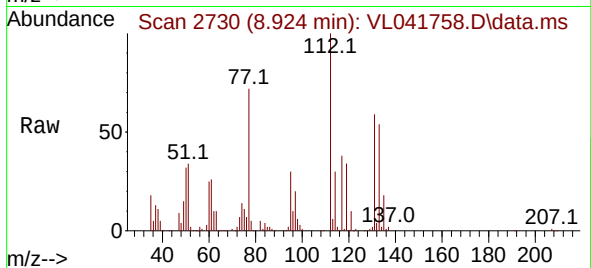
VSTDIC015

Tgt Ion:112 Resp: 227710
 Ion Ratio Lower Upper
 112 100
 77 71.8 57.4 86.0
 114 29.8 27.4 33.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#58

Ethyl Benzene

Concen: 14.742 ppbv

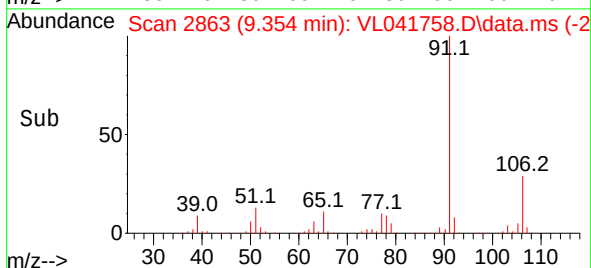
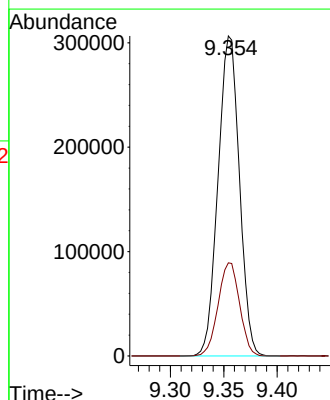
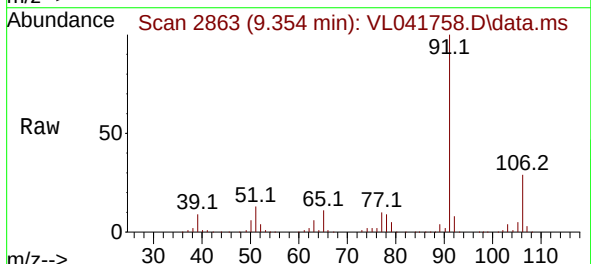
RT: 9.354 min Scan# 2863

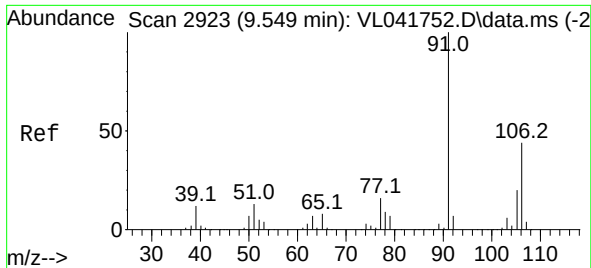
Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion: 91 Resp: 425852
 Ion Ratio Lower Upper
 91 100
 106 29.1 23.5 35.3





#59

m/p-Xylene

Concen: 29.209 ppbv m

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 67865

Ion Ratio Lower Upper

91 100

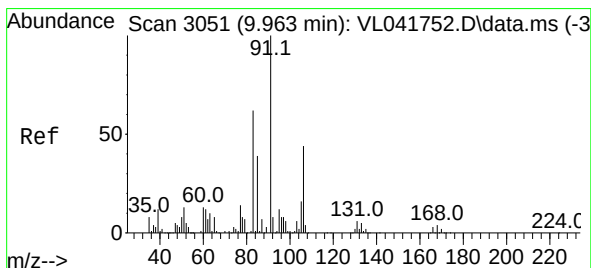
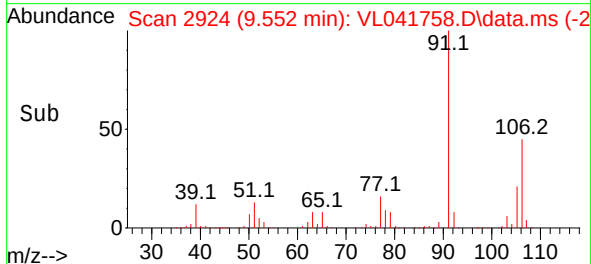
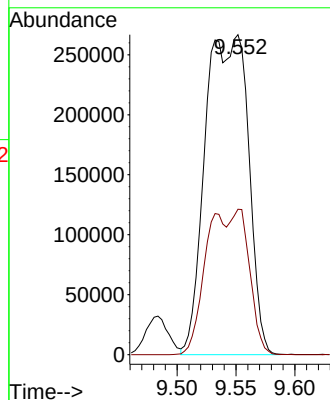
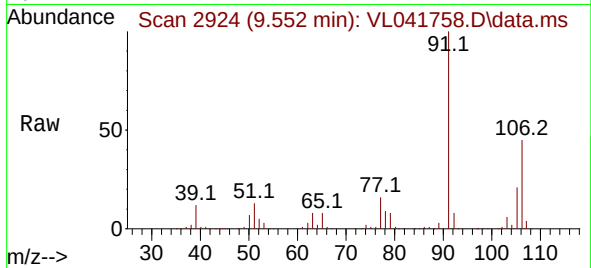
106 44.8 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#60

o-Xylene

Concen: 14.506 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041758.D

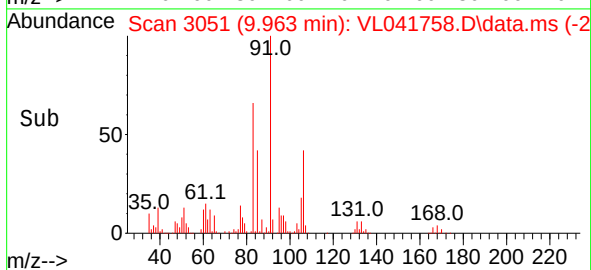
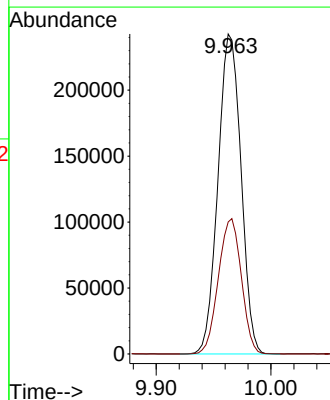
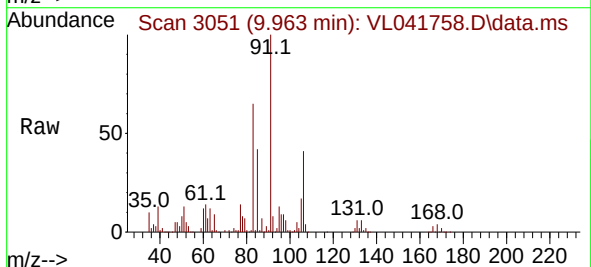
Acq: 16 Dec 2024 16:41

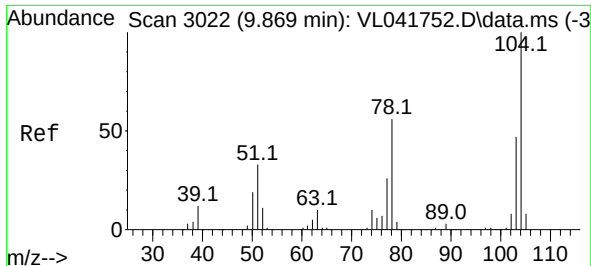
Tgt Ion: 91 Resp: 337891

Ion Ratio Lower Upper

91 100

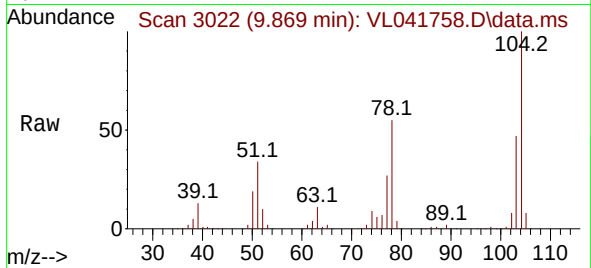
106 42.2 21.1 63.4





#61
Styrene
Concen: 16.415 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

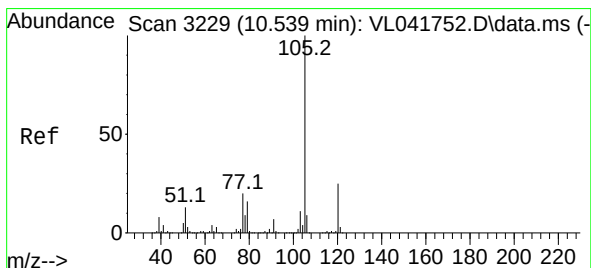
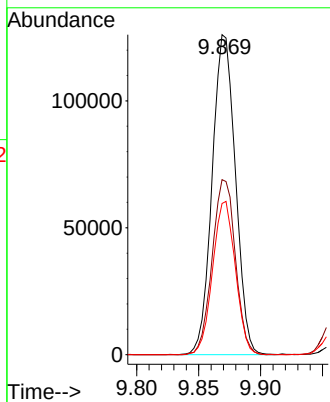
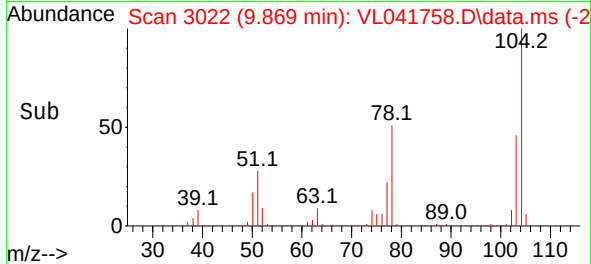
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:104 Resp: 165328
Ion Ratio Lower Upper
104 100
78 54.5 43.8 65.6
103 46.9 37.8 56.6

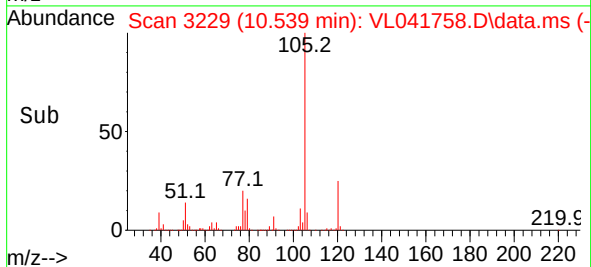
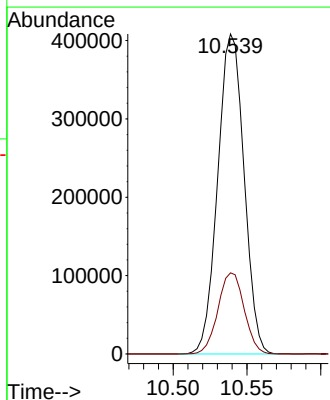
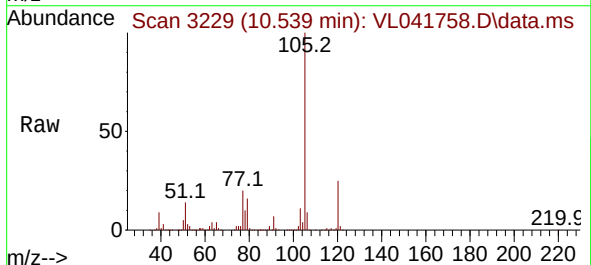
Manual Integrations
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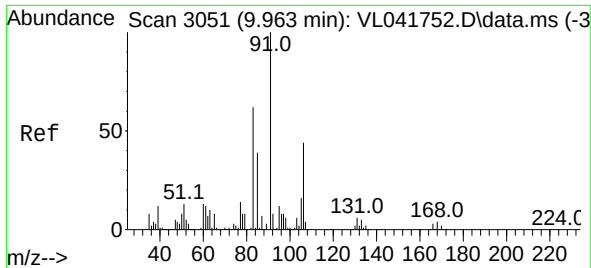
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#62
Isopropylbenzene
Concen: 14.475 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 506570
Ion Ratio Lower Upper
105 100
120 25.2 19.8 29.8





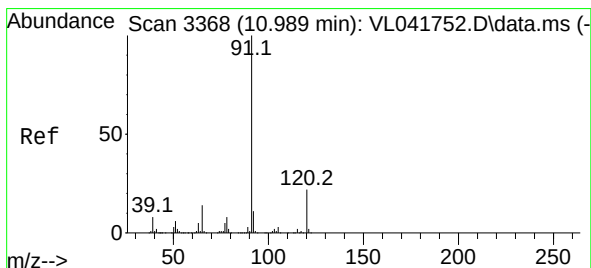
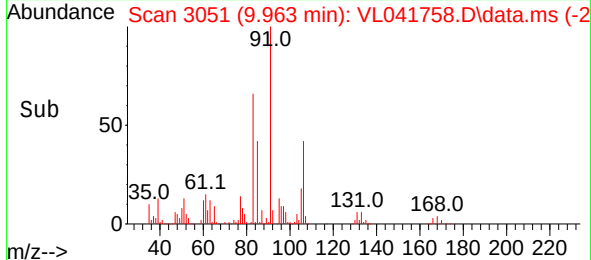
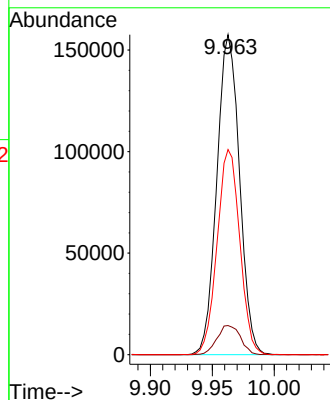
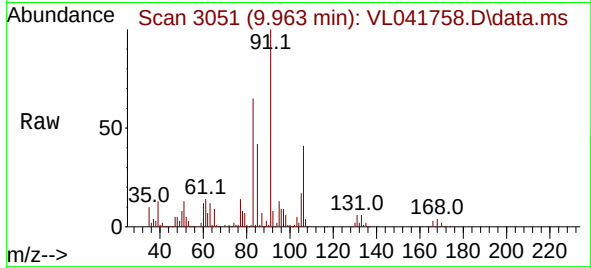
#63
1,1,2,2-Tetrachloroethane
Concen: 13.790 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion: 83 Resp: 20105
Ion Ratio Lower Upper
83 100
131 9.5 4.9 14.7
85 64.0 32.0 96.2

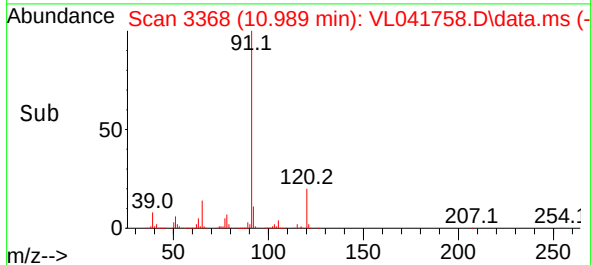
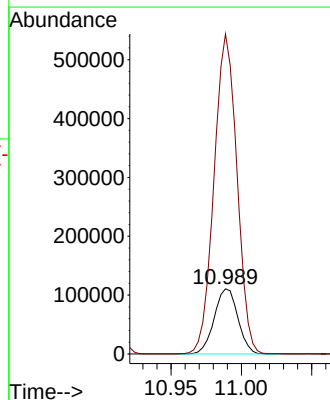
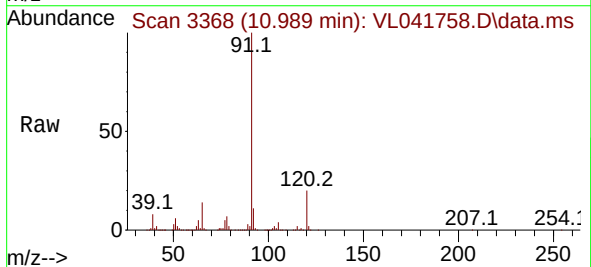
Manual Integrations
APPROVED

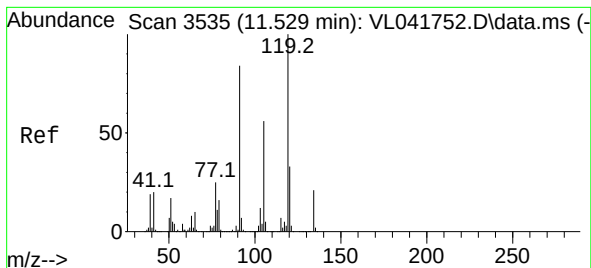
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#64
n-propylbenzene
Concen: 14.602 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:120 Resp: 129200
Ion Ratio Lower Upper
120 100
91 475.8 387.3 580.9





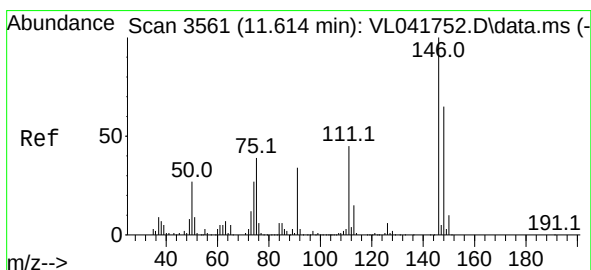
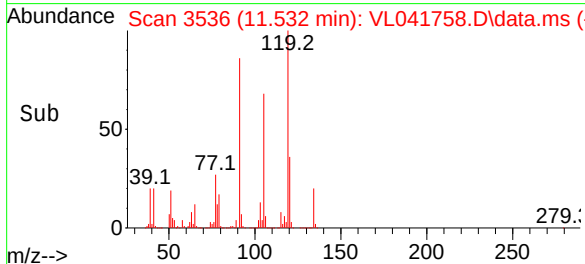
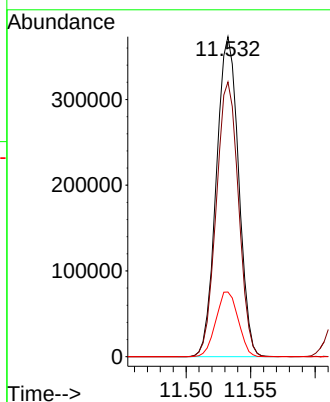
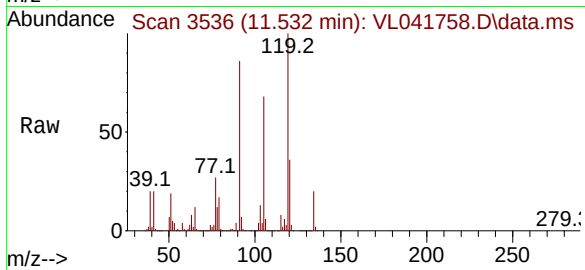
#65
tert-Butylbenzene
Concen: 14.148 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 446690
Ion Ratio Lower Upper
119 100
91 85.7 67.0 100.4
134 20.3 16.5 24.7

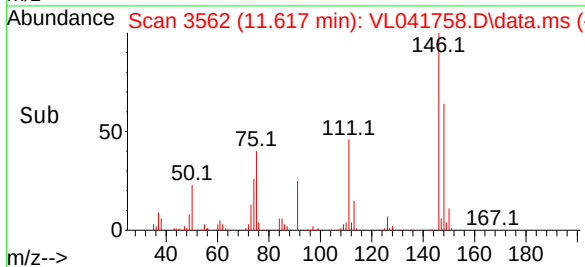
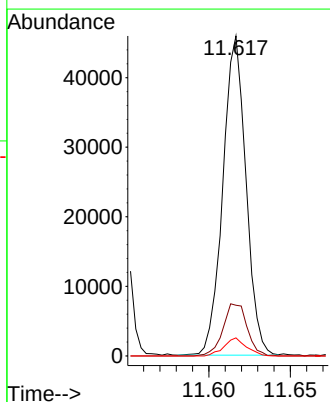
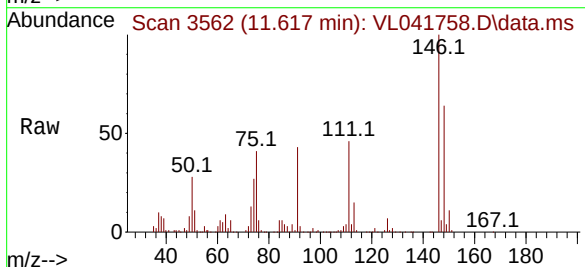
Manual Integrations
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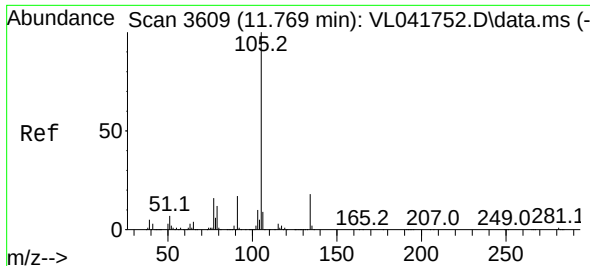
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#66
Benzyl Chloride
Concen: 16.234 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 91 Resp: 45189
Ion Ratio Lower Upper
91 100
126 17.1 13.9 20.9
128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 14.295 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 62456

Ion Ratio Lower Upper

105 100

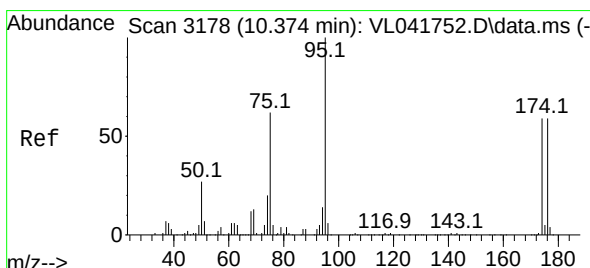
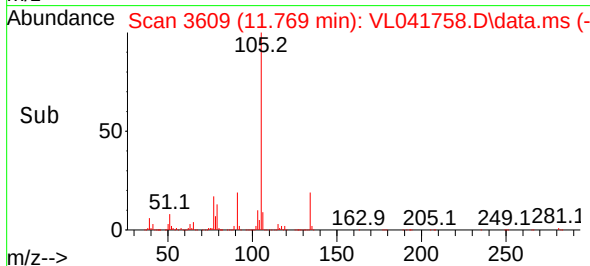
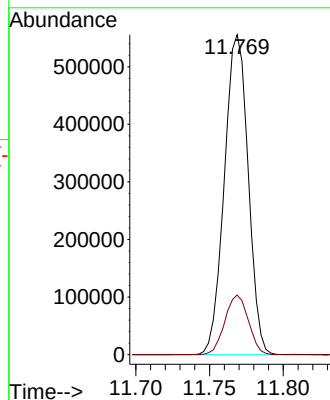
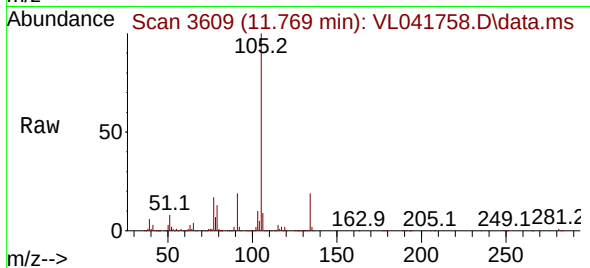
134 18.5 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.998 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

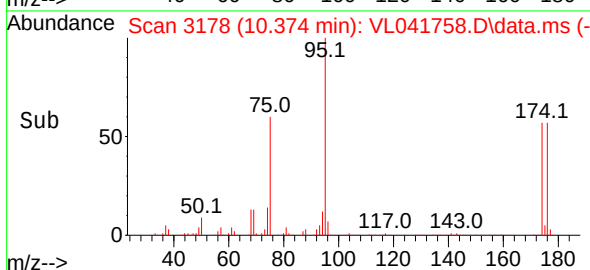
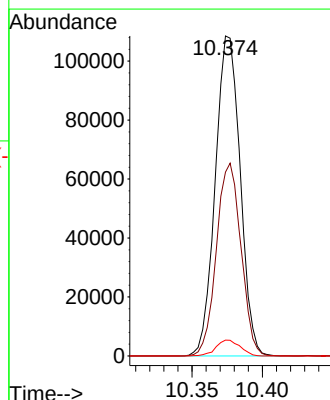
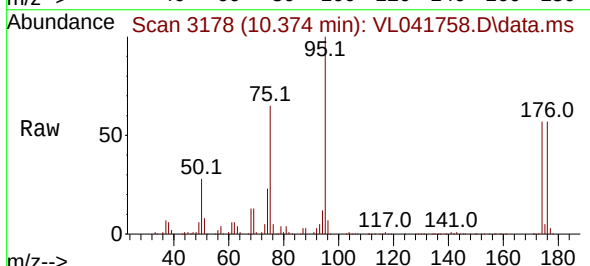
Tgt Ion: 95 Resp: 133687

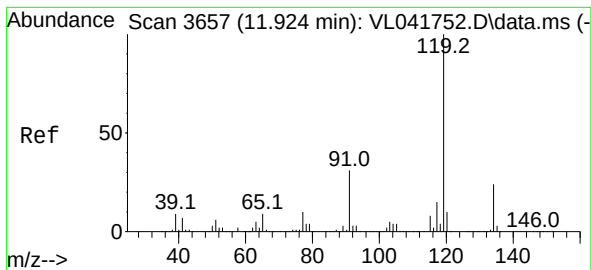
Ion Ratio Lower Upper

95 100

174 59.4 47.6 71.4

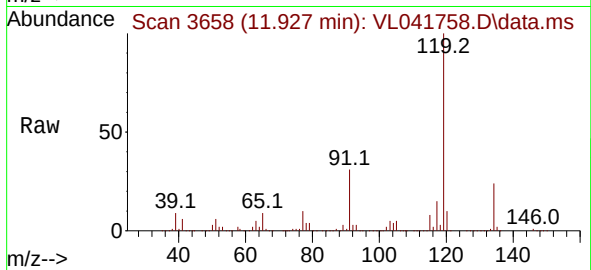
175 4.8 3.7 5.5





#69
p-Isopropyltoluene
Concen: 14.671 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

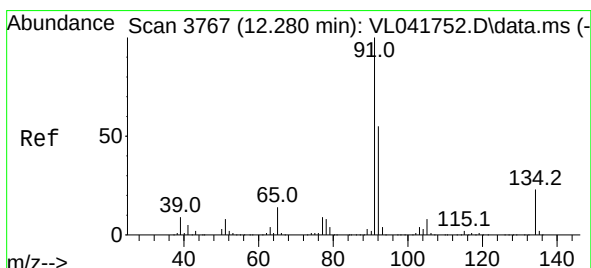
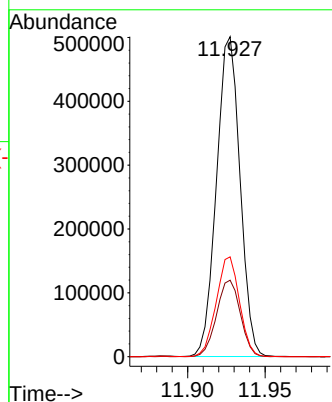
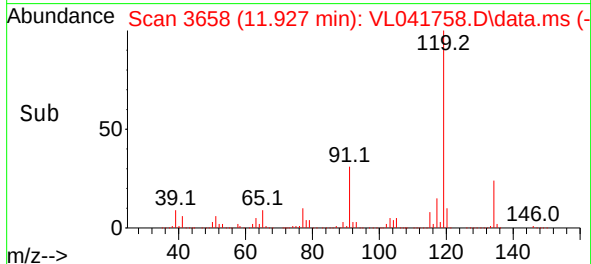
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



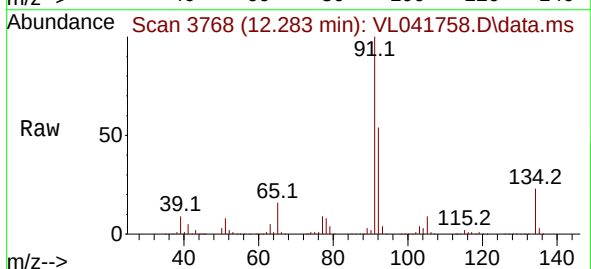
Tgt Ion:119 Resp: 52826
Ion Ratio Lower Upper
119 100
134 24.3 19.6 29.4
91 31.0 24.4 36.6

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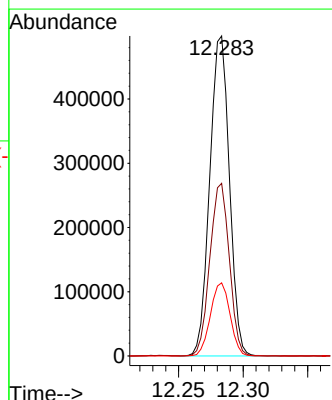
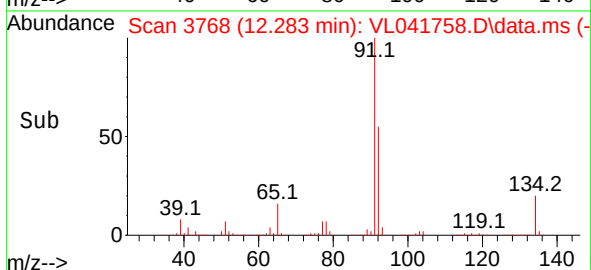
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

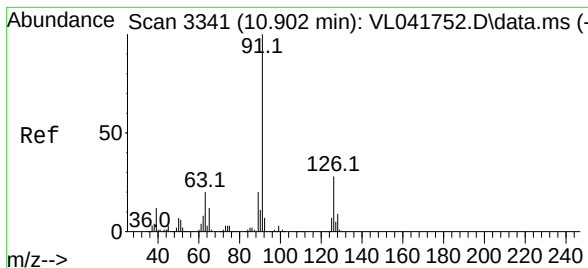


#70
n-Butylbenzene
Concen: 15.101 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



Tgt Ion: 91 Resp: 525377
Ion Ratio Lower Upper
91 100
92 53.8 43.2 64.8
134 22.8 18.2 27.4





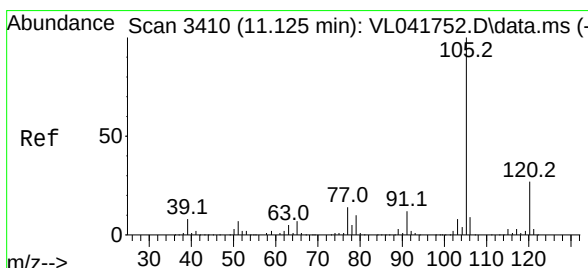
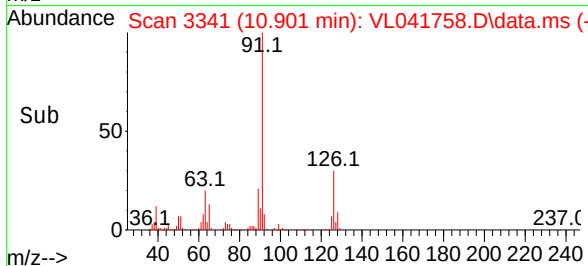
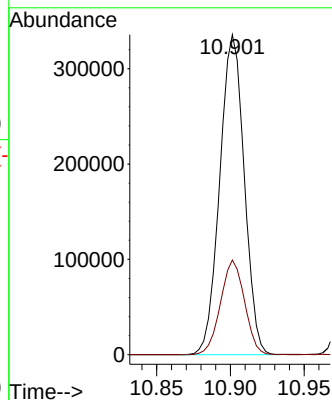
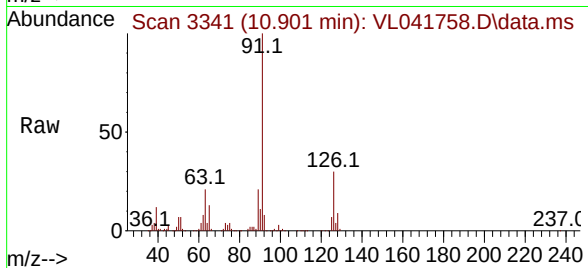
#71
2-Chlorotoluene
Concen: 14.498 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 387300
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

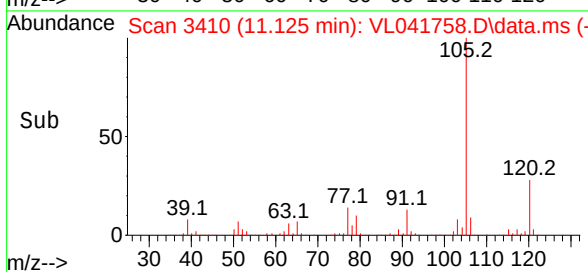
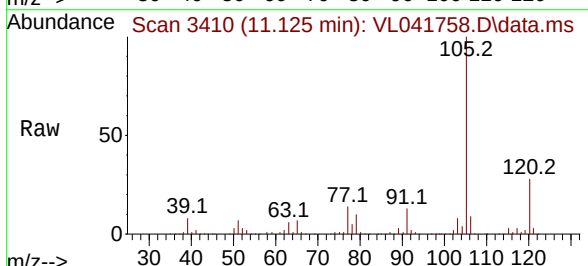
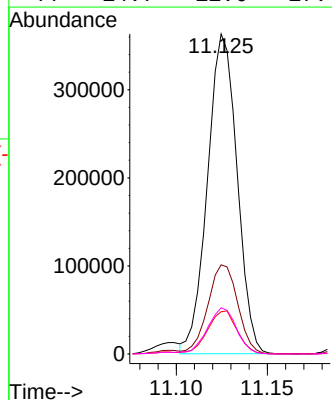
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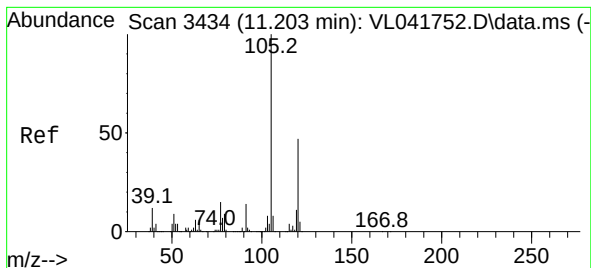
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#72
4-Ethyltoluene
Concen: 14.934 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 409822
Ion Ratio Lower Upper
105 100
120 29.2 23.3 34.9
91 13.9 10.9 16.3
77 14.7 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 15.383 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 35089

Ion Ratio Lower Upper

105 100

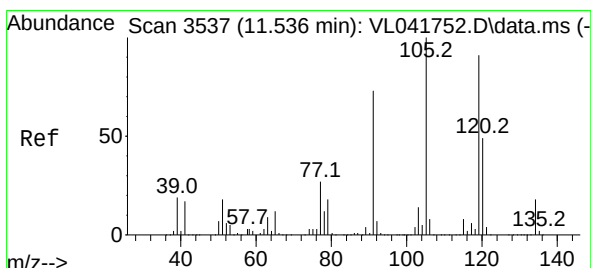
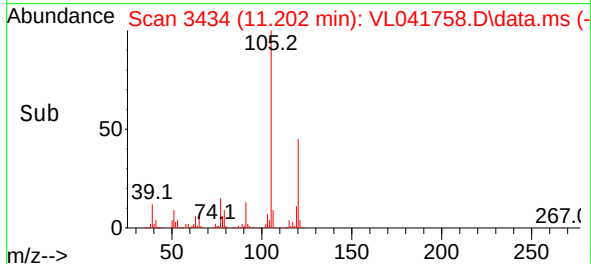
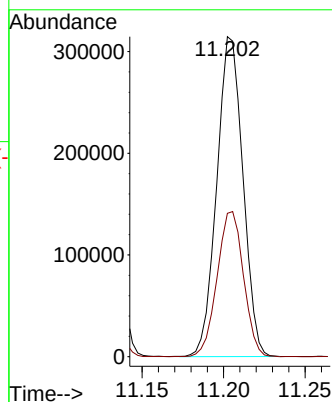
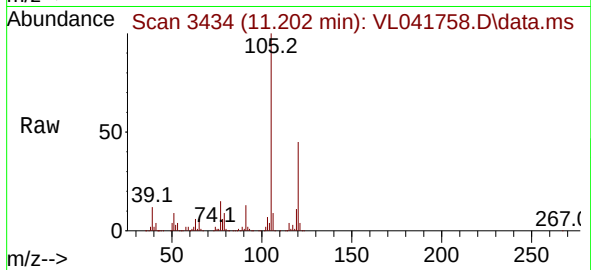
120 44.8 37.4 56.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 15.144 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 371476

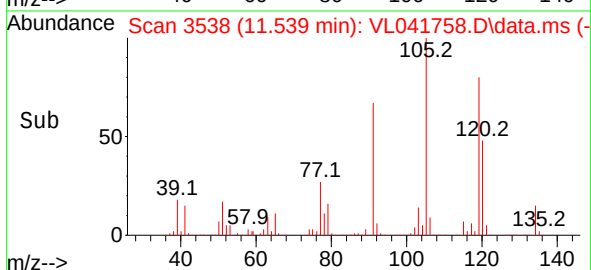
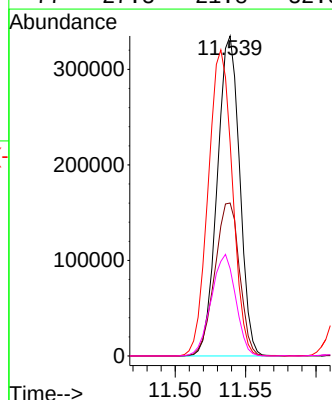
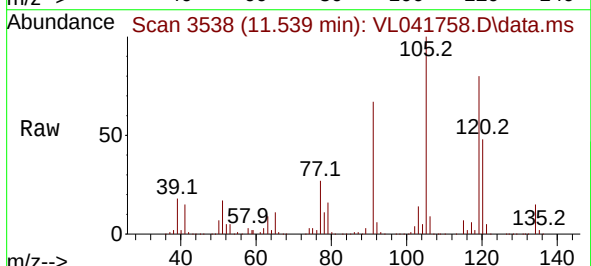
Ion Ratio Lower Upper

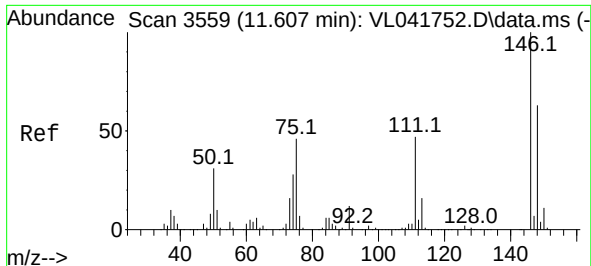
105 100

120 47.8 39.0 58.4

91 66.6 58.1 87.1

77 27.3 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 14.036 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:146 Resp: 219500

Ion Ratio Lower Upper

146 100

111 48.2 23.4 70.3

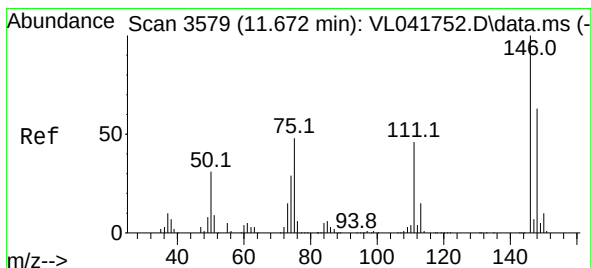
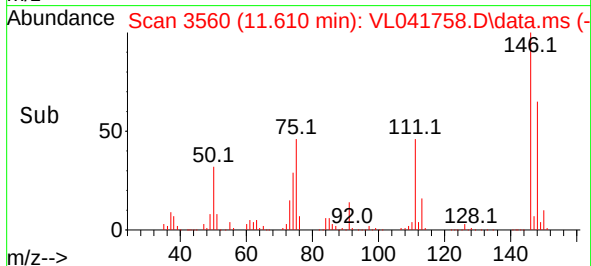
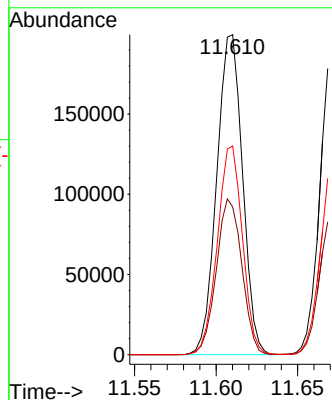
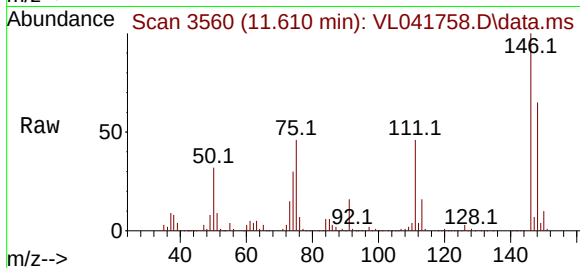
148 63.5 31.6 95.0

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#76

1,4-Dichlorobenzene

Concen: 14.388 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

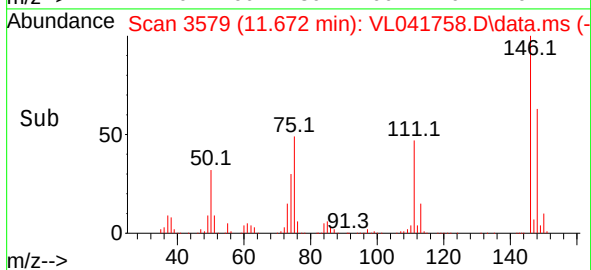
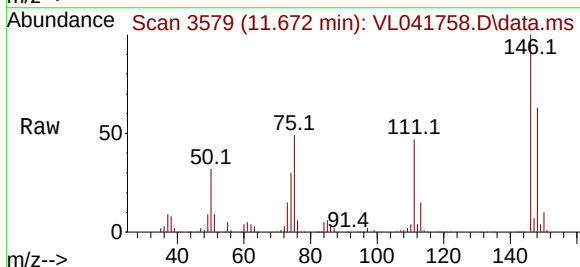
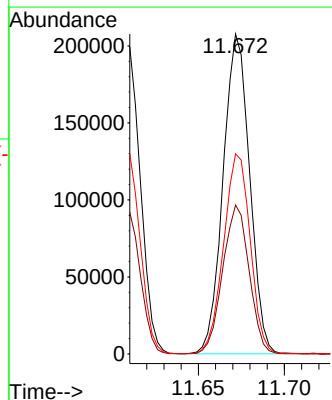
Tgt Ion:146 Resp: 222290

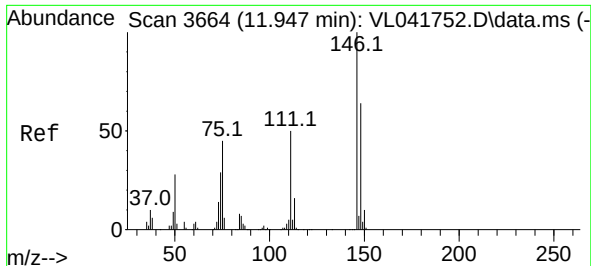
Ion Ratio Lower Upper

146 100

111 46.6 22.7 68.1

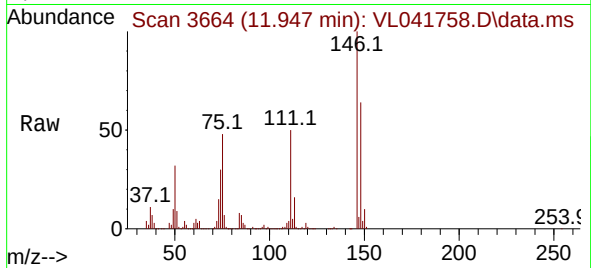
148 63.2 31.4 94.0





#77
1,2-Dichlorobenzene
Concen: 13.672 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

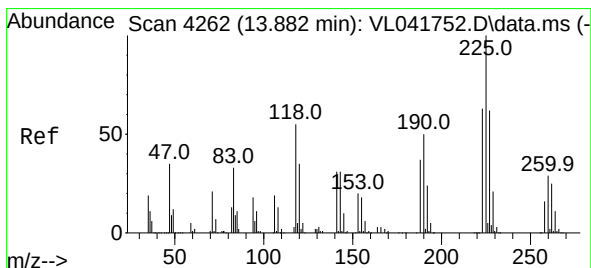
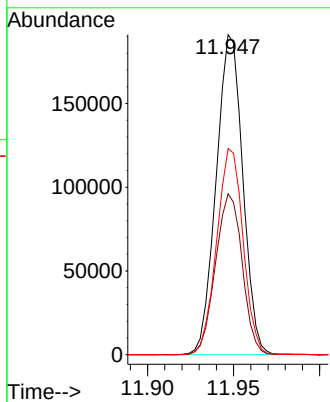
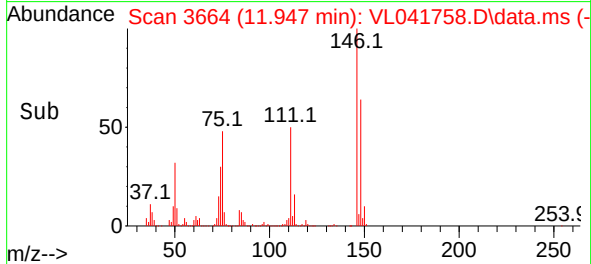
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



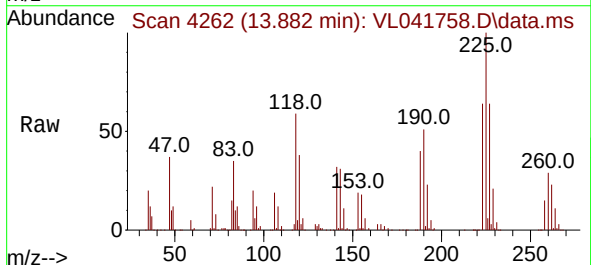
Tgt Ion:146 Resp: 20573
Ion Ratio Lower Upper
146 100
111 50.4 24.8 74.3
148 63.9 31.8 95.4

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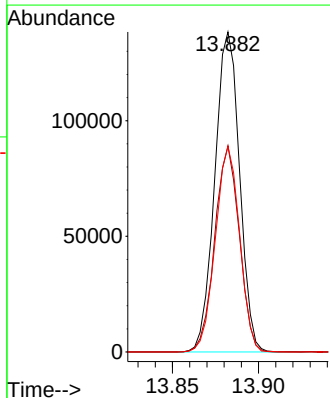
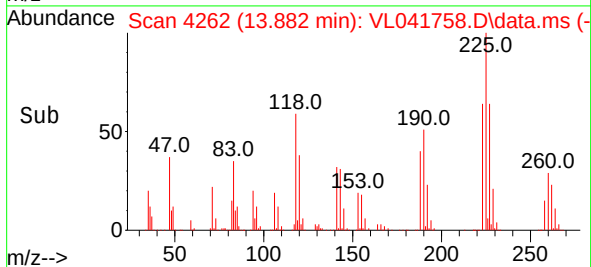
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

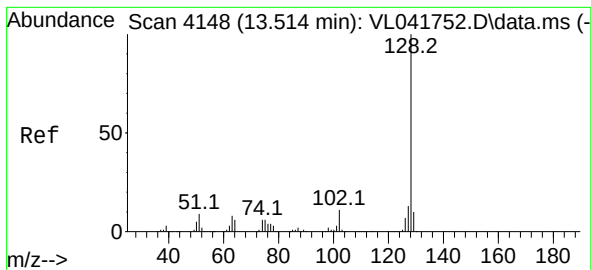


#78
Hexachloro-1,3-Butadiene
Concen: 12.412 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



Tgt Ion:225 Resp: 138481
Ion Ratio Lower Upper
225 100
223 63.7 50.5 75.7
227 63.1 50.3 75.5





#79

Naphthalene

Concen: 17.611 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

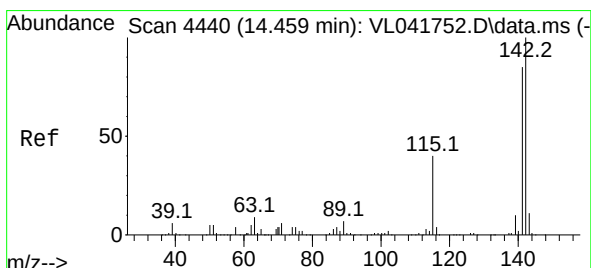
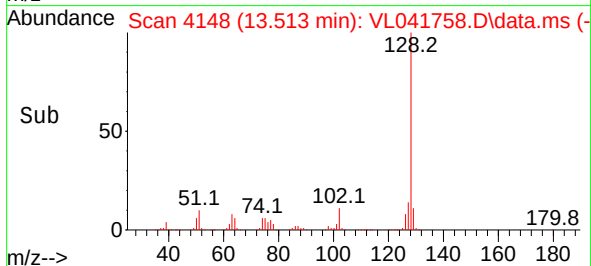
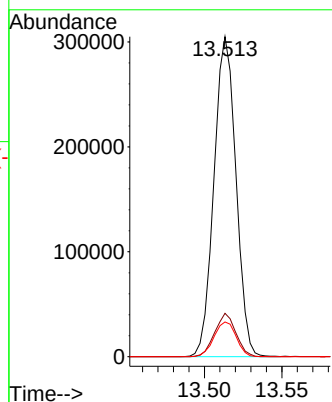
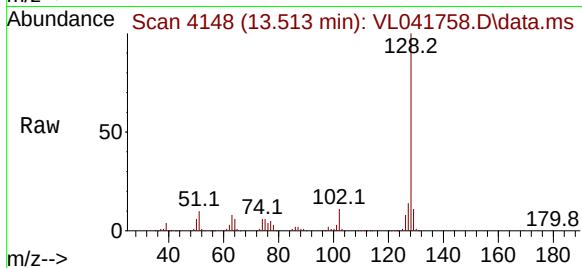
VSTDICC015

Tgt Ion:	128	Resp:	301000
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.7	16.1
129	10.9	8.2	12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#80

Naphthalene,2-methyl-

Concen: 30.630 ppbv

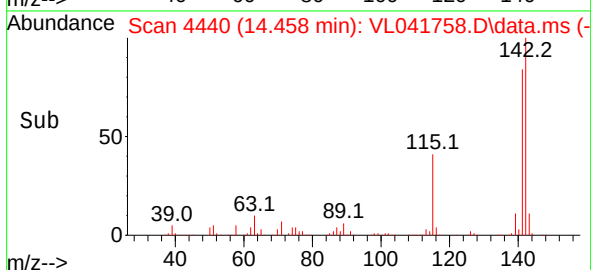
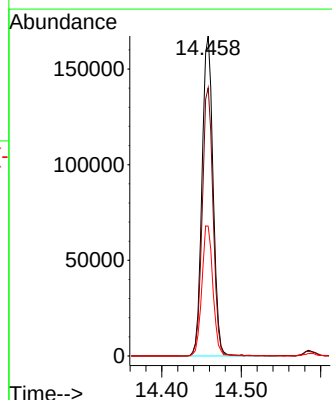
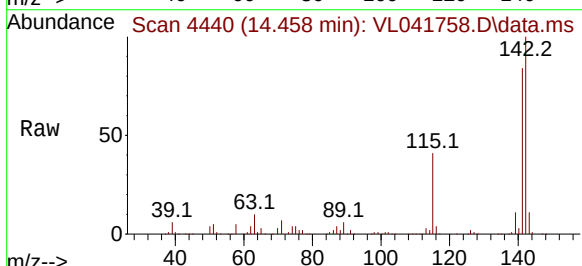
RT: 14.458 min Scan# 4440

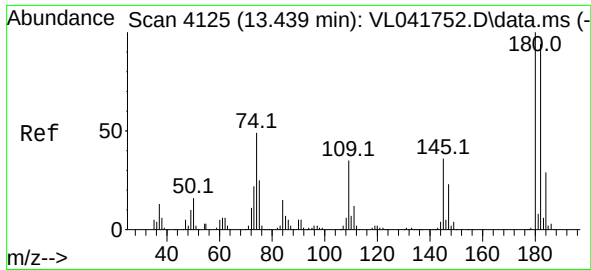
Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

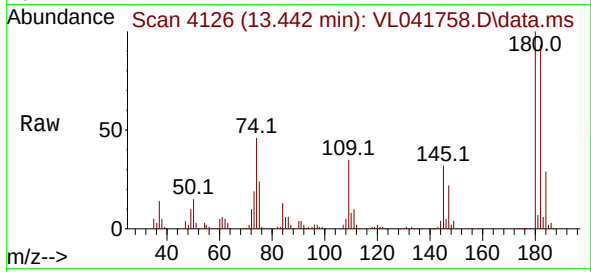
Tgt Ion:	142	Resp:	161927
Ion Ratio	Lower	Upper	
142	100		
141	82.6	68.4	102.6
115	40.9	32.5	48.7





#81
1,2,4-Trichlorobenzene
Concen: 15.669 ppbv
RT: 13.442 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

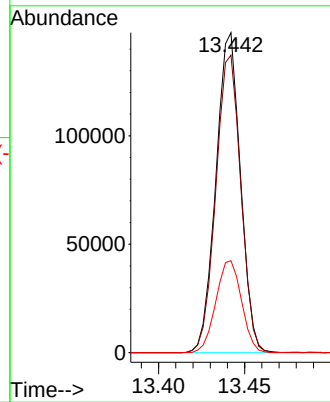
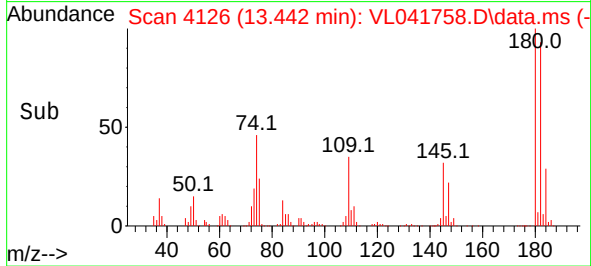
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:180 Resp: 146340
Ion Ratio Lower Upper
180 100
182 94.8 77.0 115.6
184 30.0 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:36:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64976	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	174378	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	153443	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 129985 10.166 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	106780	9.236	ppbv	95
3) Chlorodifluoromethane	1.476	51	105141	9.922	ppbv	99
4) Chloromethane	1.531	50	43409	9.596	ppbv	96
5) Vinyl Chloride	1.580	62	40956	8.986	ppbv	97
6) Bromomethane	1.667	94	19590	9.109	ppbv	94
7) Chloroethane	1.703	64	17356	9.803	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	99858	9.650	ppbv	98
9) Propene	1.483	41	41721	9.084	ppbv	98
10) Heptane	4.981	43	115804	9.816	ppbv	99
11) Trichlorofluoromethane	1.877	101	115785	9.428	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	88265	9.450	ppbv	100
13) Ethanol	1.722	45	2749m	7.229	ppbv	
14) Bromoethene	1.780	108	31492	9.987	ppbv	98
15) Acetone	1.835	43	94879	7.505	ppbv	99
16) 1,3-Butadiene	1.609	39	45119	9.063	ppbv	98
17) tert-Butyl alcohol	2.039	59	122035	9.730	ppbv	100
18) 1,1-Dichloroethene	2.033	96	37466	9.568	ppbv	98
19) Isopropyl Alcohol	1.884	45	57577	7.590	ppbv	98
20) Methylene Chloride	2.062	84	32325	8.967	ppbv	96
21) Allyl Chloride	2.094	41	67596	9.859	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	42651	9.515	ppbv	97
23) Vinyl Acetate	2.463	43	51812	8.826	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	87006	9.589	ppbv	100
25) Ethyl Acetate	2.835	43	234370	9.965	ppbv	100
26) Hexane	2.826	57	87034	9.752	ppbv	97
27) Carbon Disulfide	2.149	76	85650	10.649	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	62189	8.589	ppbv	99
29) Chloroform	2.848	83	134541	9.892	ppbv	98
30) Cyclohexane	3.858	84	75274	9.912	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	91628	9.935	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	137978	9.979	ppbv	99
34) 2-Butanone	2.557	43	133939	9.547	ppbv	99
35) Carbon Tetrachloride	3.764	117	138537	11.191	ppbv	97
36) Benzene	3.658	78	176537	9.787	ppbv	99
37) 1,2-Dichloroethane	3.221	62	112037	9.982	ppbv	99
38) Trichloroethene	4.551	130	70108	9.156	ppbv	96
39) 1,2-Dichloropropane	4.318	63	63675	9.761	ppbv	95
40) 1,4-Dioxane	4.583	88	30891	9.693	ppbv #	98
41) Tetrahydrofuran	3.056	42	77472	9.857	ppbv	99
42) Bromodichloromethane	4.493	83	139717	10.821	ppbv	95
43) Methyl Methacrylate	4.881	69	70299	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.641	57	301772	9.796	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	77534	10.907	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:36:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

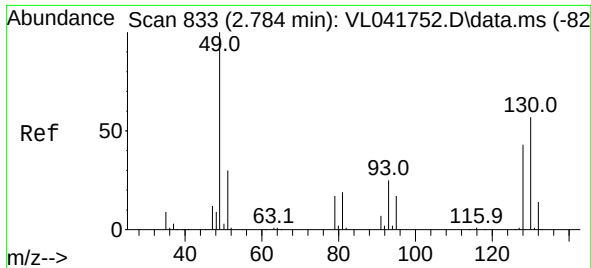
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	66169m	9.711	ppbv	
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv	100
49) Bromoform	9.487	173	88971	11.682	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	190637	9.980	ppbv	99
51) 2-Hexanone	7.441	43	155646	10.053	ppbv #	100
52) Tetrachloroethene	8.228	164	62782	9.351	ppbv	96
53) Toluene	6.933	91	199754	9.768	ppbv	99
54) 1,2-Dibromoethane	7.655	107	93439	9.952	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	85883	10.558	ppbv	99
57) Chlorobenzene	8.924	112	155257	9.888	ppbv	98
58) Ethyl Benzene	9.357	91	284770	10.308	ppbv	98
59) m/p-Xylene	9.555	91	459102m	20.669	ppbv	
60) o-Xylene	9.966	91	229517	10.304	ppbv	98
61) Styrene	9.875	104	106841	11.093	ppbv	99
62) Isopropylbenzene	10.542	105	348887	10.425	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	137547	9.865	ppbv	99
64) n-propylbenzene	10.992	120	87865	10.384	ppbv	98
65) tert-Butylbenzene	11.536	119	307790	10.194	ppbv	100
66) Benzyl Chloride	11.620	91	29398	11.054	ppbv	99
67) sec-Butylbenzene	11.772	105	430521	10.304	ppbv	99
69) p-Isopropyltoluene	11.927	119	365667	10.620	ppbv	100
70) n-Butylbenzene	12.283	91	356880	10.727	ppbv	99
71) 2-Chlorotoluene	10.904	91	264123	10.340	ppbv	99
72) 4-Ethyltoluene	11.128	105	280580	10.672	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	237804	10.902	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	256141	10.919	ppbv #	88
75) 1,3-Dichlorobenzene	11.610	146	149927	10.025	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	152212	10.302	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	142734	9.919	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	94671	8.873	ppbv	99
79) Naphthalene	13.516	128	202413	12.384	ppbv	100
80) Naphthalene,2-methyl-	14.461	142	102431	20.261	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	98468	11.025	ppbv	99

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



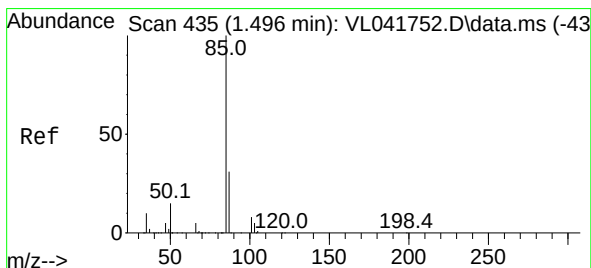
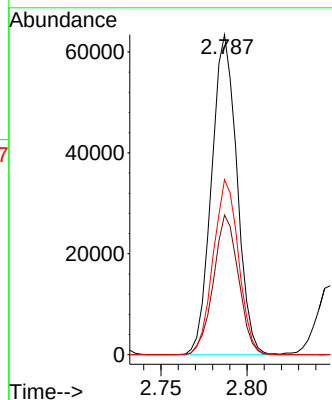
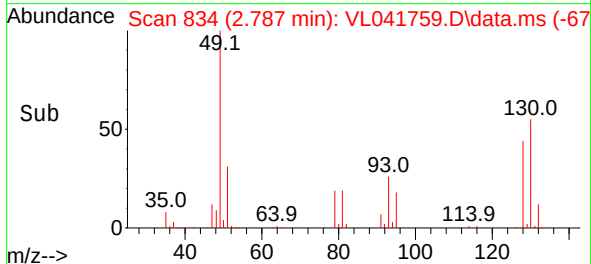
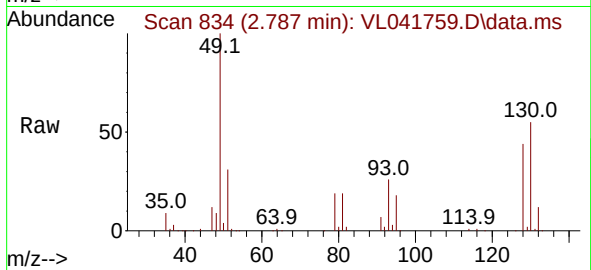
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 49 Resp: 64970
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.6
130 54.5 28.3 85.0

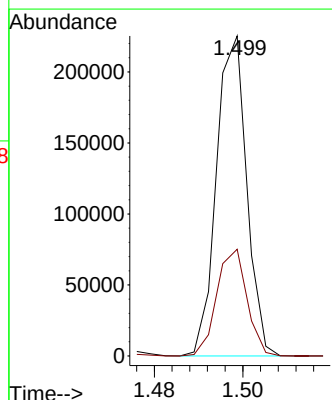
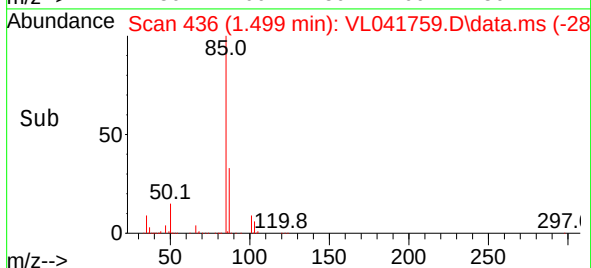
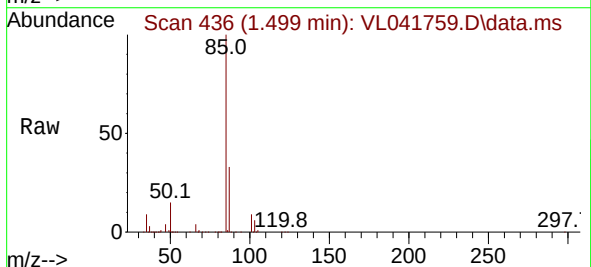
Manual Integrations
APPROVED

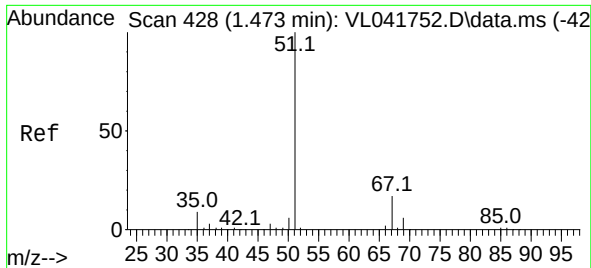
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#2
Dichlorodifluoromethane
Concen: 9.236 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 85 Resp: 106780
Ion Ratio Lower Upper
85 100
87 33.4 24.5 36.7





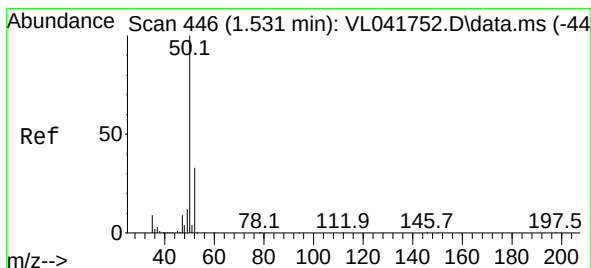
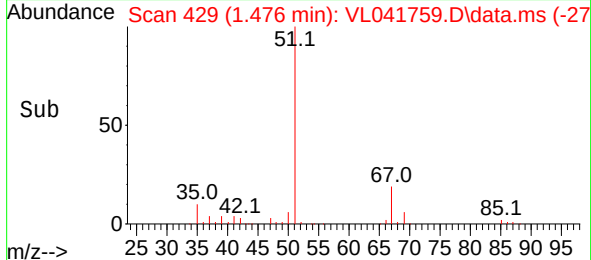
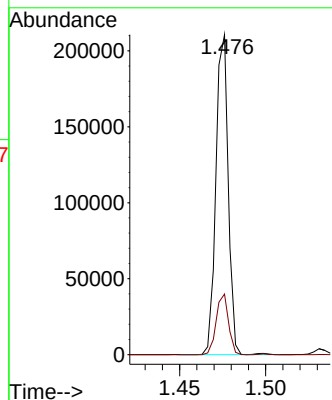
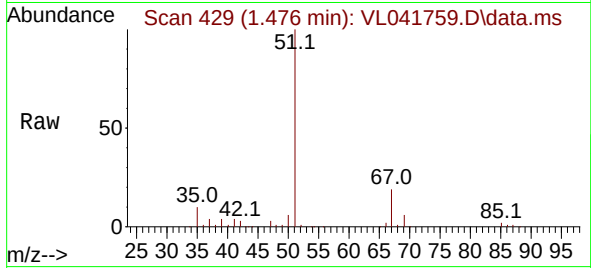
#3
Chlorodifluoromethane
Concen: 9.922 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument : MSVOA_L
ClientSampleId : ICVVL121624

Tgt Ion: 51 Resp: 10514
Ion Ratio Lower Upper
51 100
67 19.1 15.0 22.4

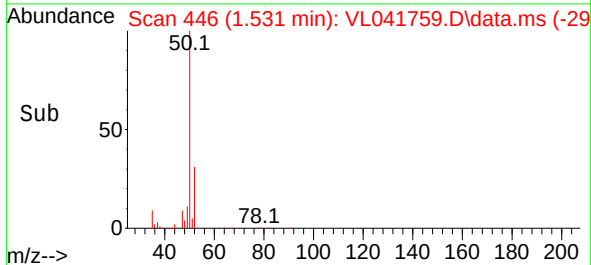
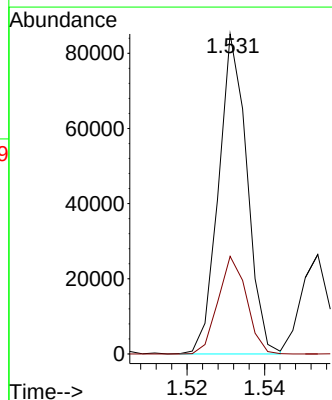
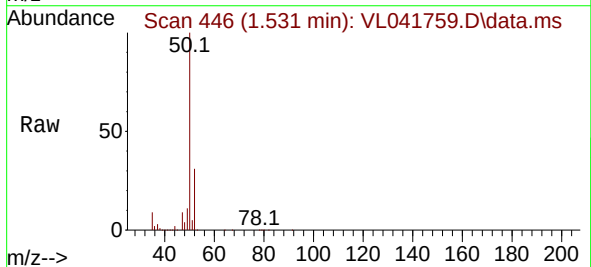
Manual Integrations
APPROVED

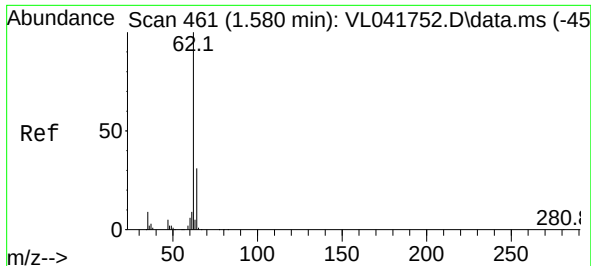
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 9.596 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

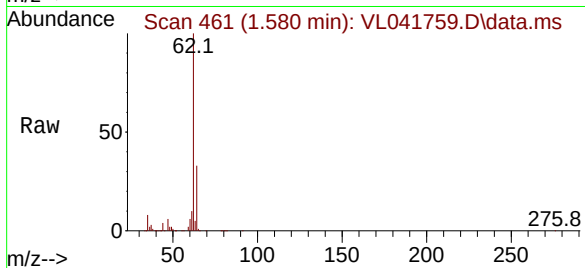
Tgt Ion: 50 Resp: 43409
Ion Ratio Lower Upper
50 100
52 30.6 26.2 39.2





#5
 Vinyl Chloride
 Concen: 8.986 ppbv
 RT: 1.580 min Scan# 40950
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

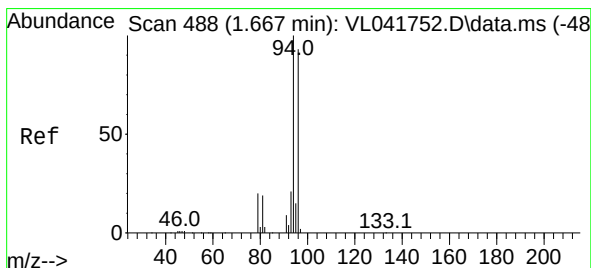
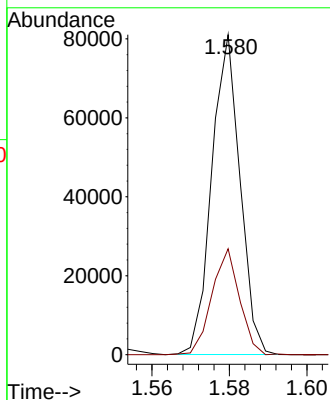
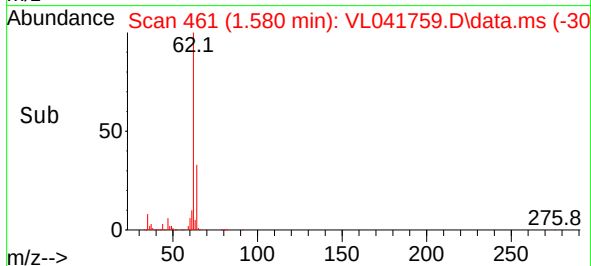
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624



Tgt Ion: 62 Resp: 40950
 Ion Ratio Lower Upper
 62 100
 64 33.0 25.1 37.7

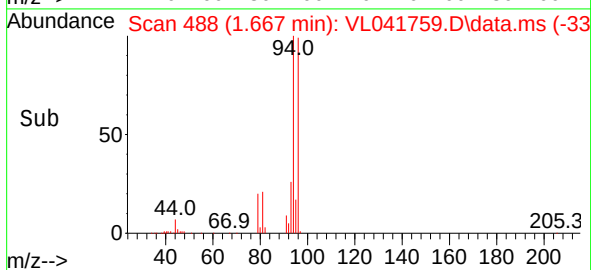
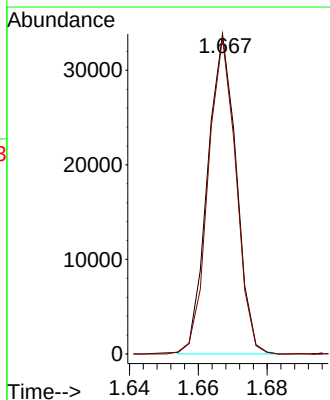
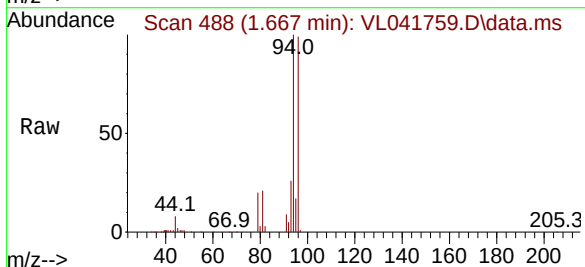
Manual Integrations
 APPROVED

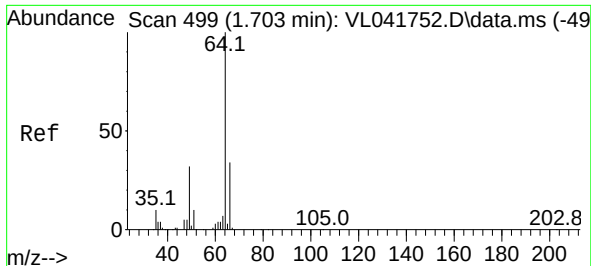
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#6
 Bromomethane
 Concen: 9.109 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Tgt Ion: 94 Resp: 19590
 Ion Ratio Lower Upper
 94 100
 96 98.9 74.7 112.1





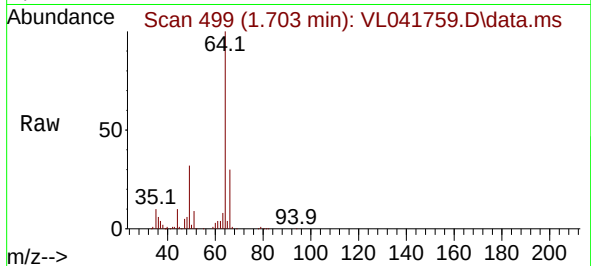
#7
Chloroethane
Concen: 9.803 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

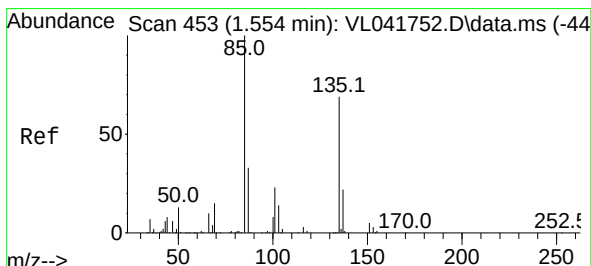
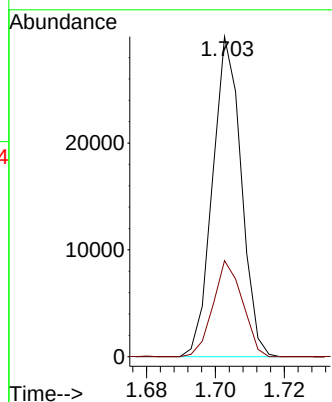
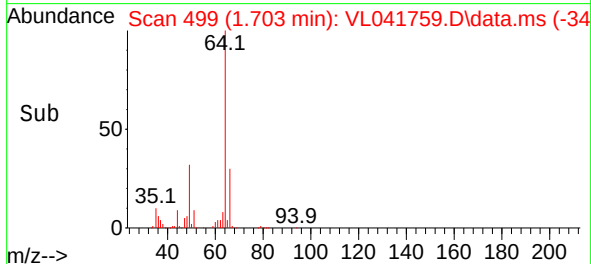


Tgt Ion: 64 Resp: 17350
Ion Ratio Lower Upper
64 100
66 30.0 27.5 41.3

Manual Integrations

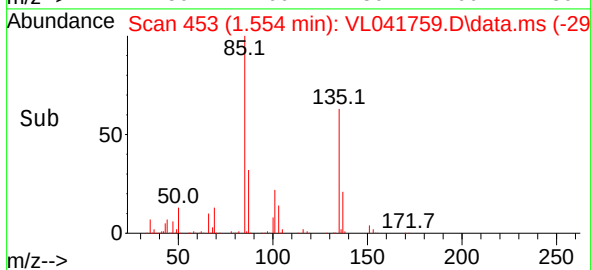
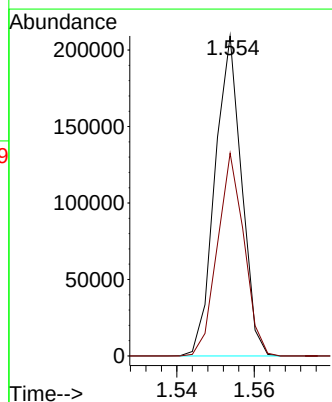
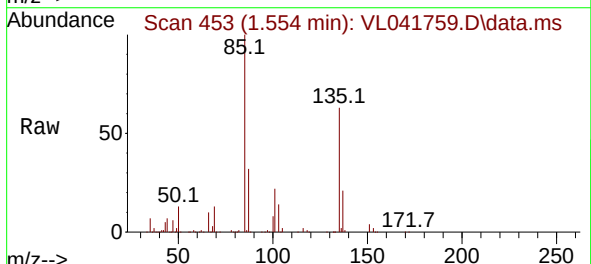
APPROVED

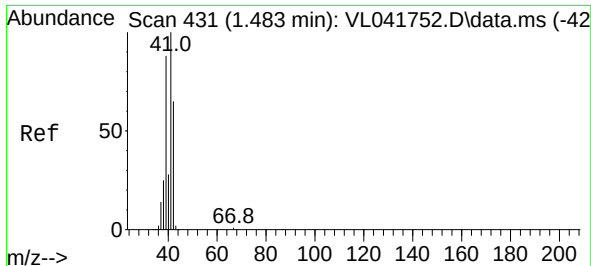
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 9.650 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

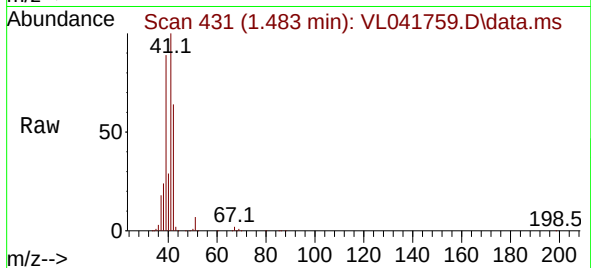
Tgt Ion: 85 Resp: 99858
Ion Ratio Lower Upper
85 100
135 63.6 51.9 77.9





#9
Propene
Concen: 9.084 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

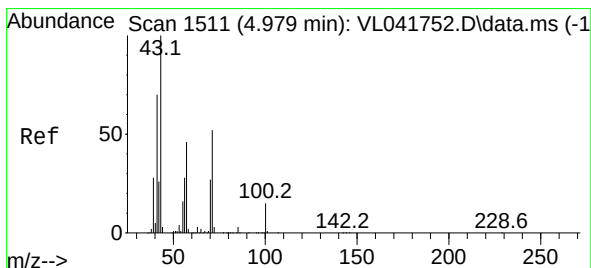
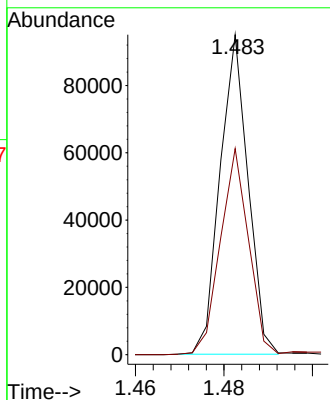
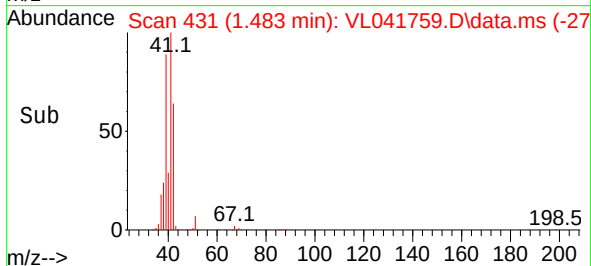
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



Tgt Ion: 41 Resp: 4172
Ion Ratio Lower Upper
41 100
42 66.7 52.4 78.6

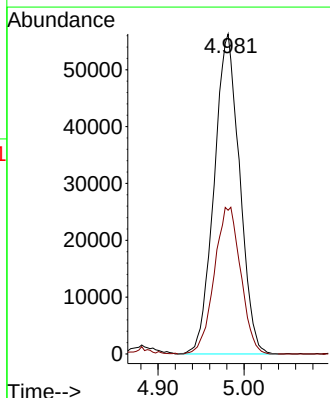
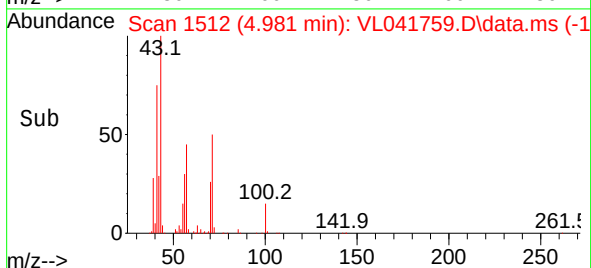
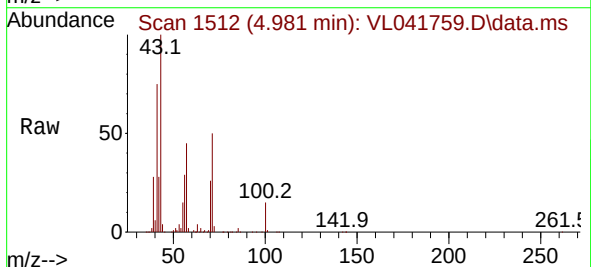
Manual Integrations
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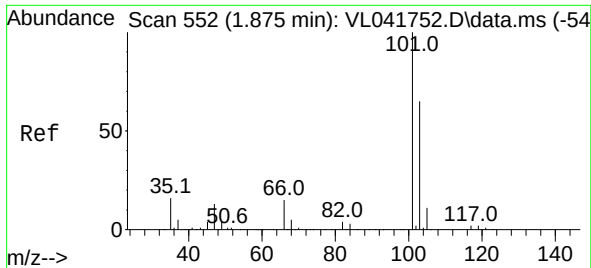
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#10
Heptane
Concen: 9.816 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

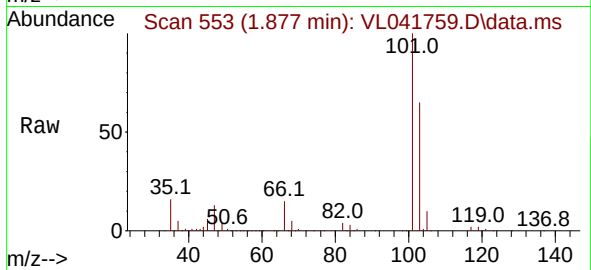
Tgt Ion: 43 Resp: 115804
Ion Ratio Lower Upper
43 100
57 47.4 38.5 57.7





#11
 Trichlorofluoromethane
 Concen: 9.428 ppbv
 RT: 1.877 min Scan# 552
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

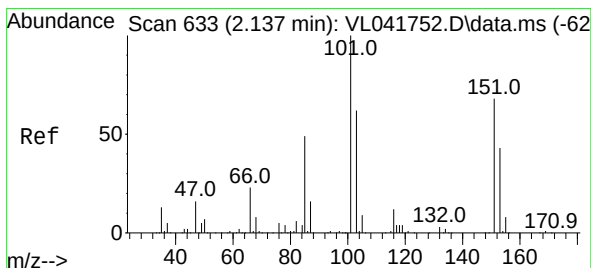
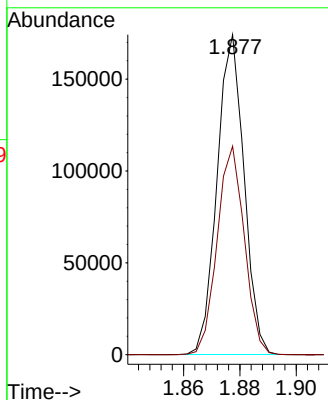
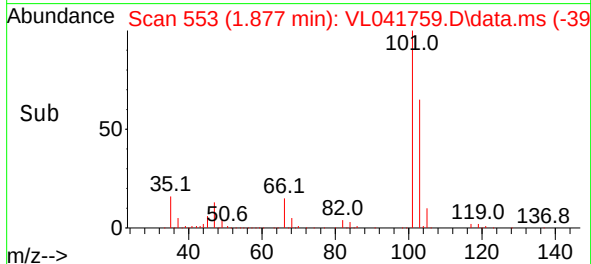
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624



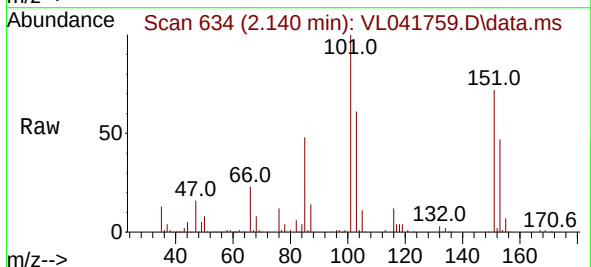
Tgt Ion:101 Resp: 115785
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.8 77.8

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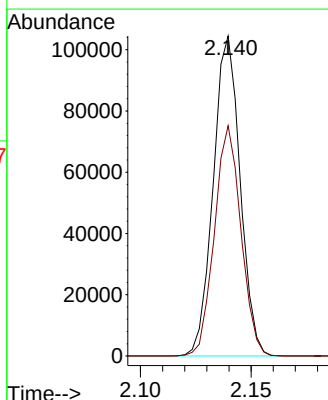
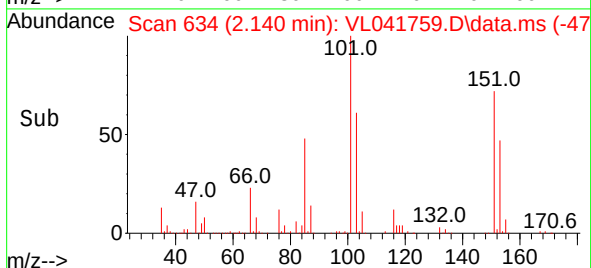
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

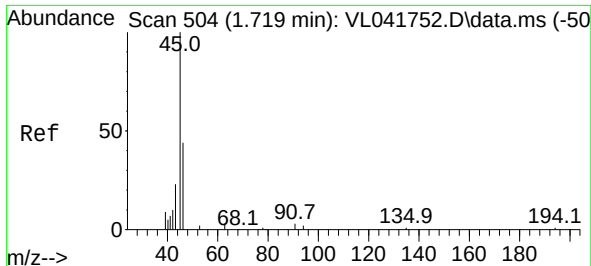


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.450 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59



Tgt Ion:101 Resp: 88265
 Ion Ratio Lower Upper
 101 100
 151 70.8 56.8 85.2





#13

Ethanol

Concen: 7.229 ppbv m

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL041759.D

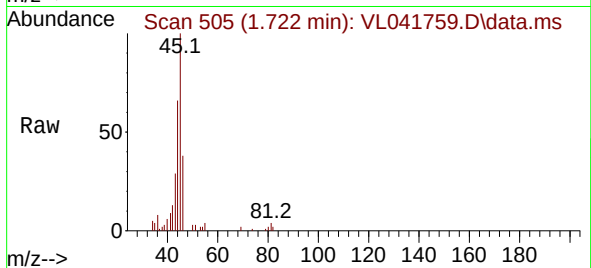
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624



Tgt Ion: 45 Resp: 2749

Ion Ratio Lower Upper

45 100

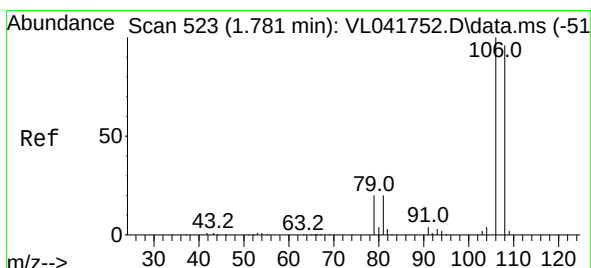
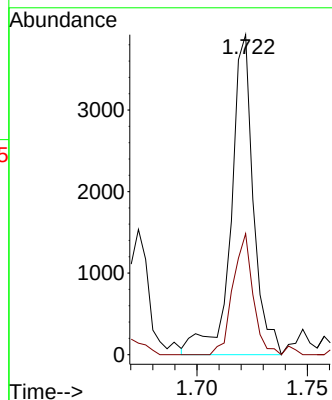
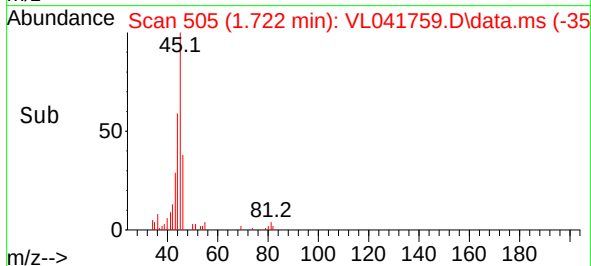
46 35.2 16.4 65.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#14

Bromoethene

Concen: 9.987 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

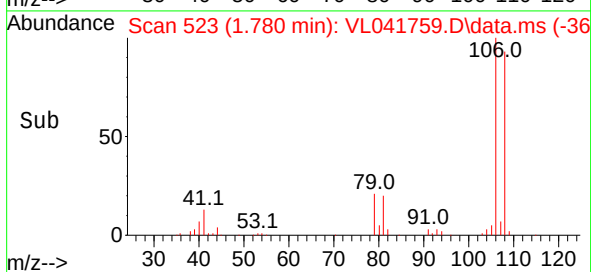
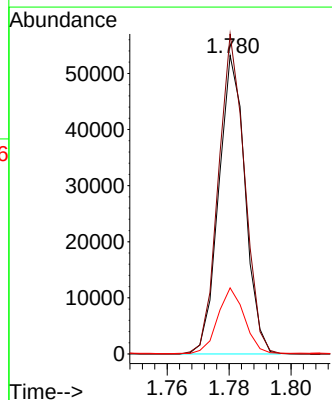
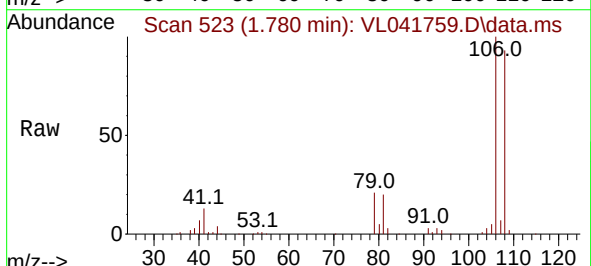
Tgt Ion:108 Resp: 31492

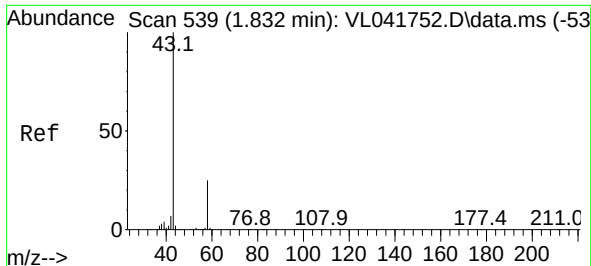
Ion Ratio Lower Upper

108 100

106 106.4 84.1 126.1

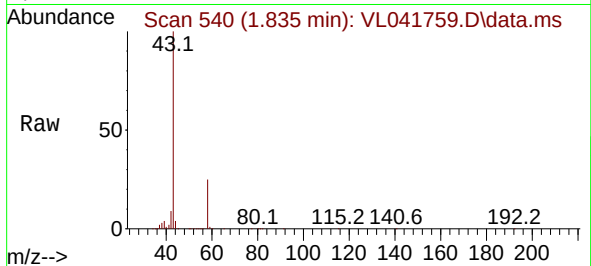
79 23.4 17.4 26.0





#15
Acetone
Concen: 7.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

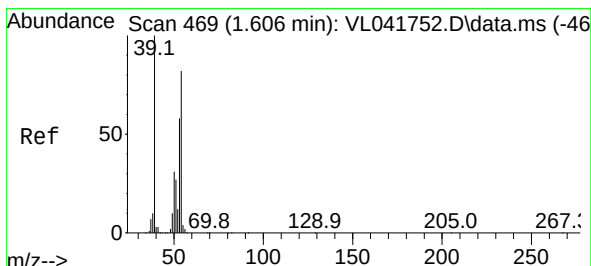
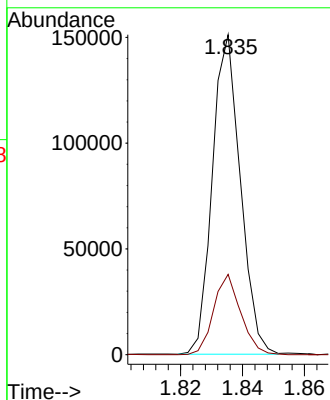
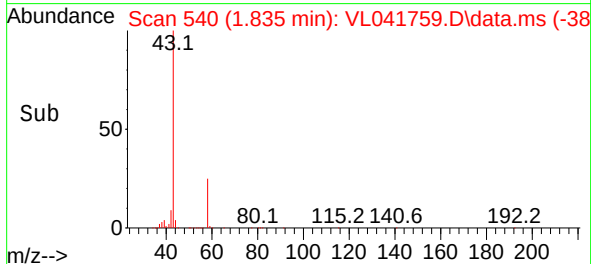
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



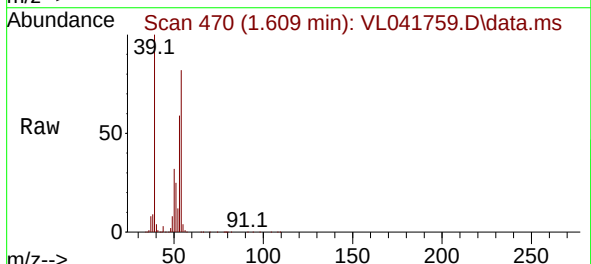
Tgt Ion: 43 Resp: 94879
Ion Ratio Lower Upper
43 100
58 24.3 19.7 29.5

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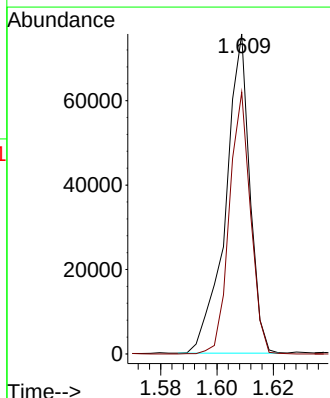
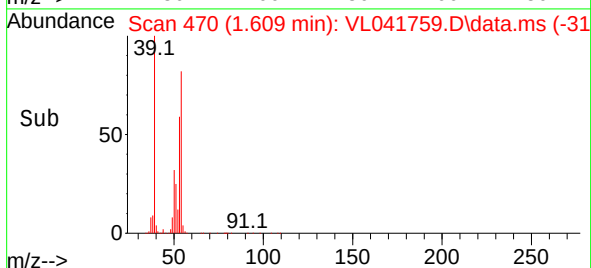
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

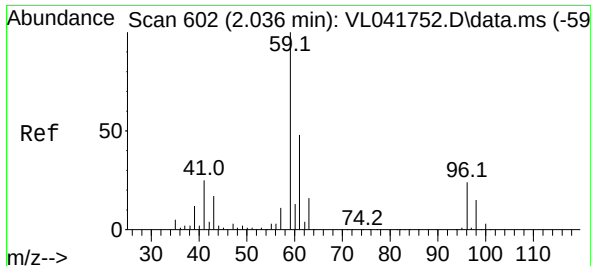


#16
1,3-Butadiene
Concen: 9.063 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



Tgt Ion: 39 Resp: 45119
Ion Ratio Lower Upper
39 100
54 71.7 58.4 87.6





#17
tert-Butyl alcohol
Concen: 9.730 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

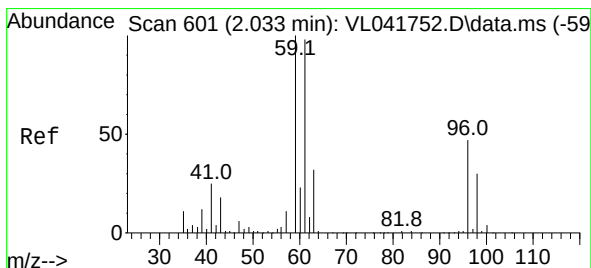
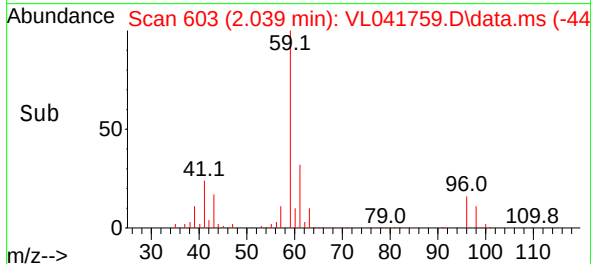
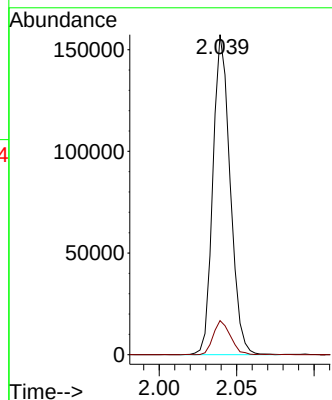
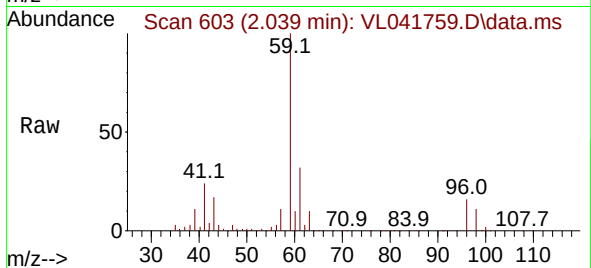
ICVVL121624

Tgt Ion: 59 Resp: 122034
Ion Ratio Lower Upper
59 100
57 10.6 8.6 13.0

Manual Integrations

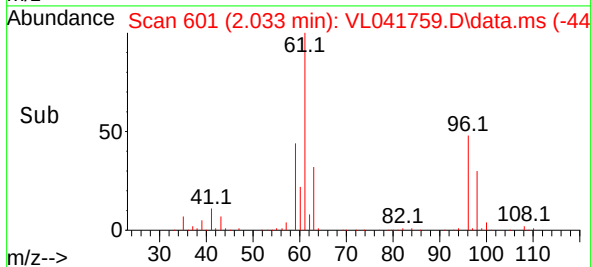
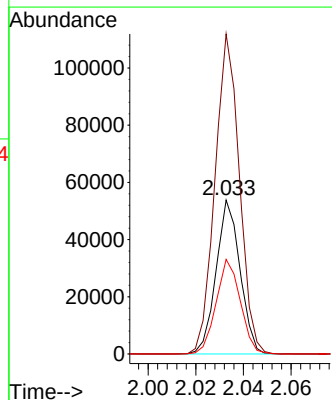
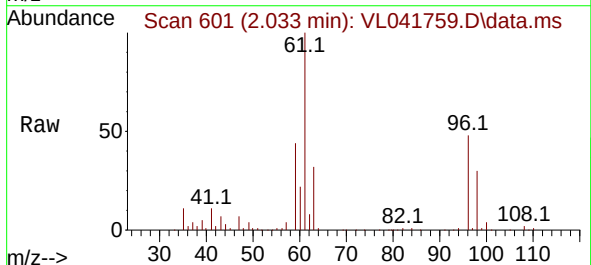
APPROVED

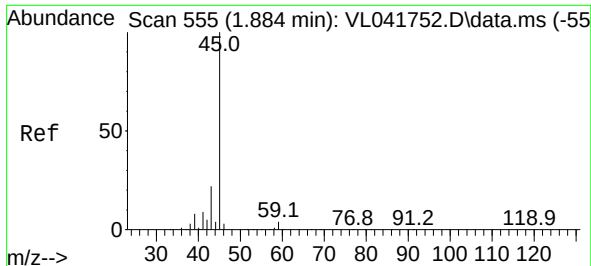
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#18
1,1-Dichloroethene
Concen: 9.568 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 96 Resp: 37466
Ion Ratio Lower Upper
96 100
61 207.9 167.7 251.5
98 61.5 51.1 76.7





#19

Isopropyl Alcohol

Concen: 7.590 ppbv

RT: 1.884 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 45 Resp: 5757

Ion Ratio Lower Upper

45 100

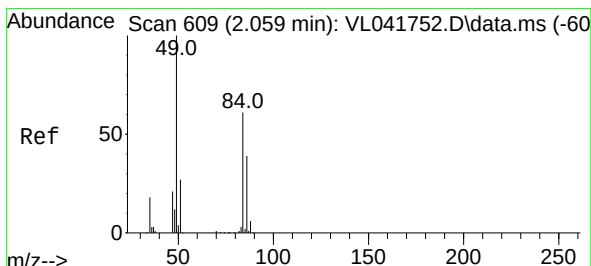
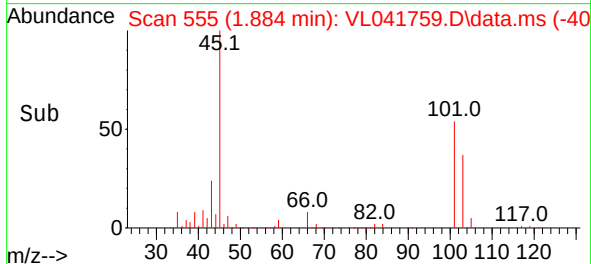
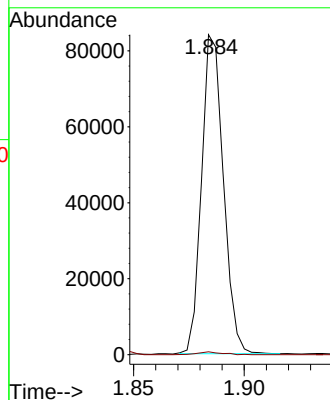
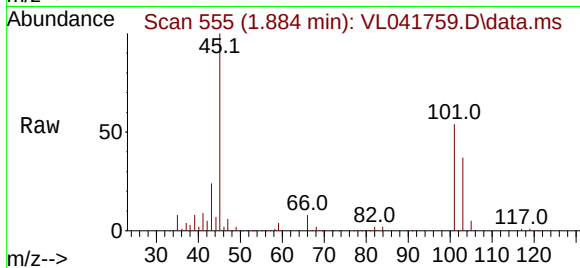
58 40.1 33.3 49.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#20

Methylene Chloride

Concen: 8.967 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 84 Resp: 32325

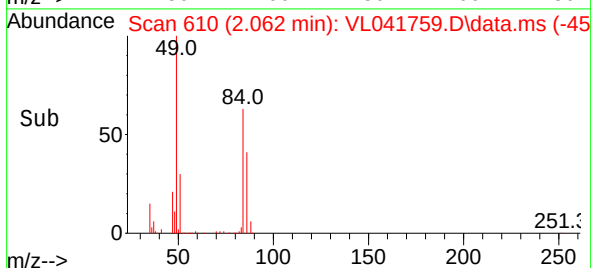
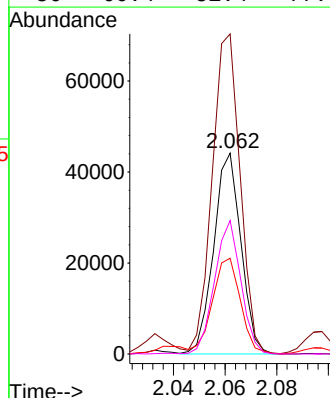
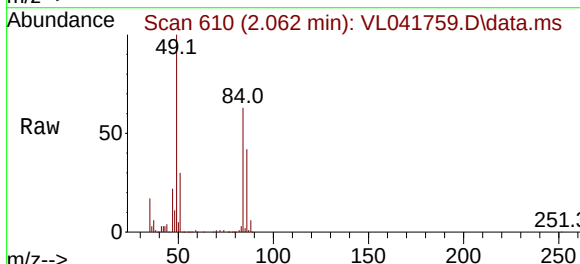
Ion Ratio Lower Upper

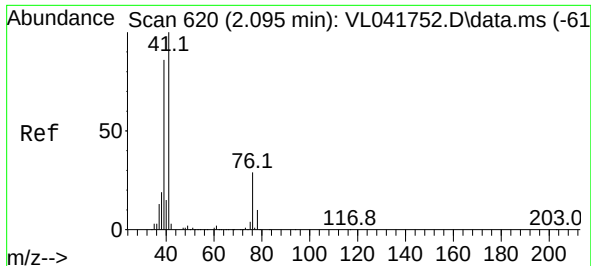
84 100

49 159.1 132.6 198.8

51 47.7 37.6 56.4

86 66.4 51.4 77.0





#21

Allyl Chloride

Concen: 9.859 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

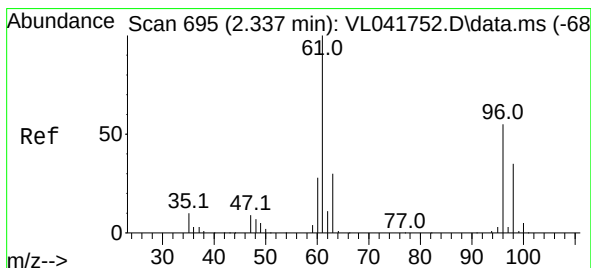
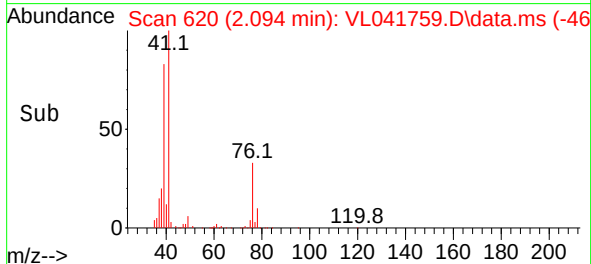
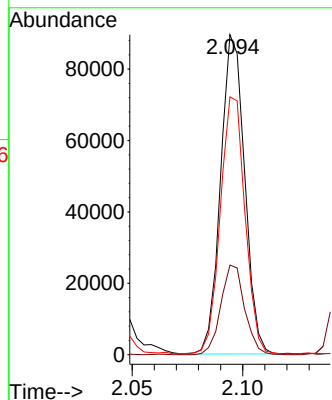
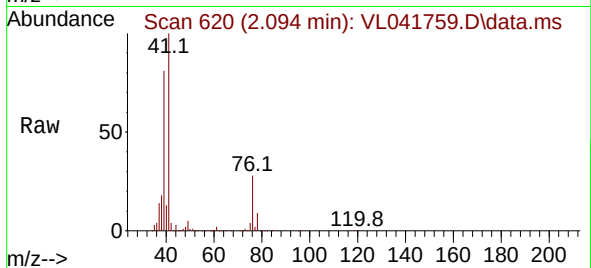
ICVVL121624

Tgt Ion: 41	Resp: 67590
Ion Ratio	Lower Upper
41	100
76	27.9 22.3 33.5
39	82.6 69.2 103.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#22

trans-1,2-Dichloroethene

Concen: 9.515 ppbv

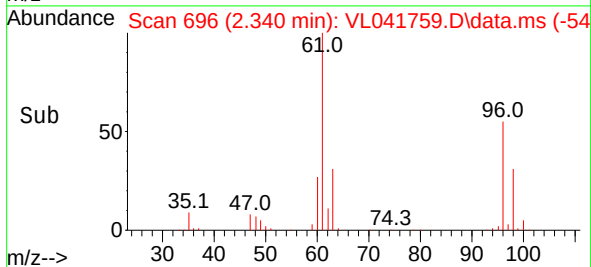
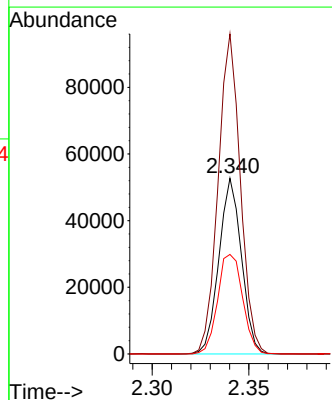
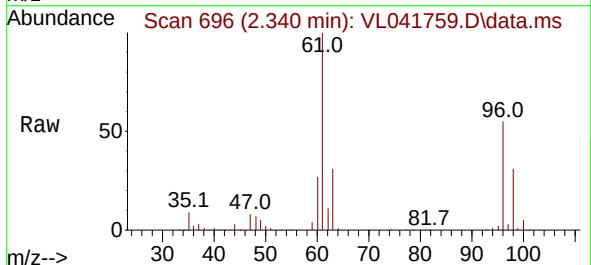
RT: 2.340 min Scan# 696

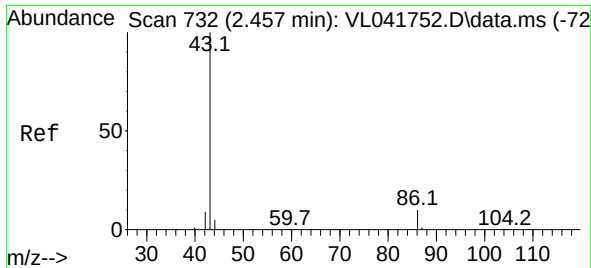
Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 96	Resp: 42651
Ion Ratio	Lower Upper
96	100
61	182.2 146.3 219.5
98	56.7 50.8 76.2





#23
 Vinyl Acetate
 Concen: 8.826 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

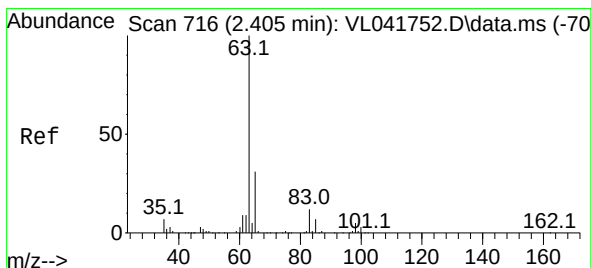
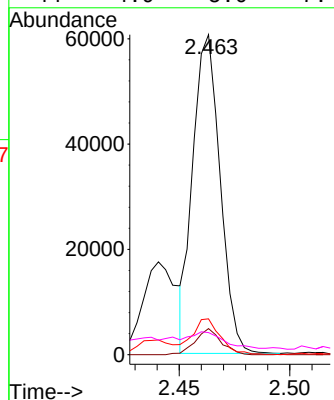
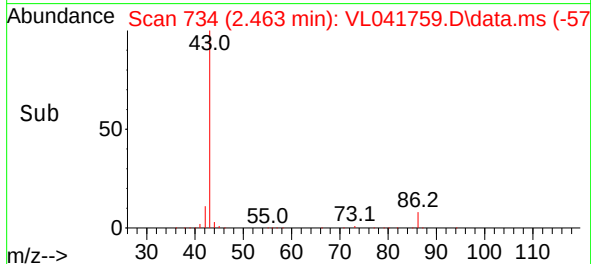
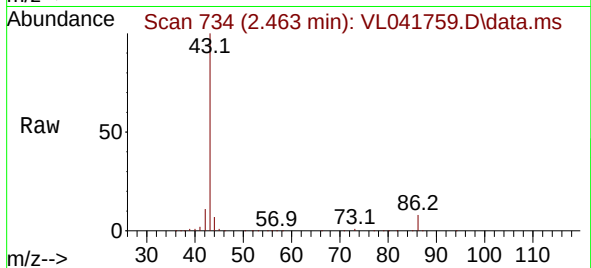
ClientSampleId :

ICVVL121624

Tgt Ion: 43 Resp: 51812
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.6 10.0
 42 11.2 8.2 12.2
 44 4.9 5.0 7.4#

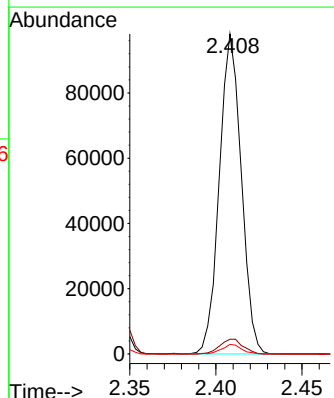
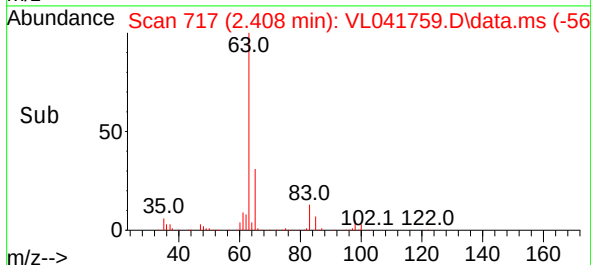
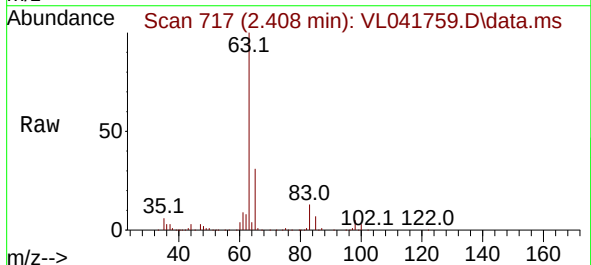
Manual Integrations
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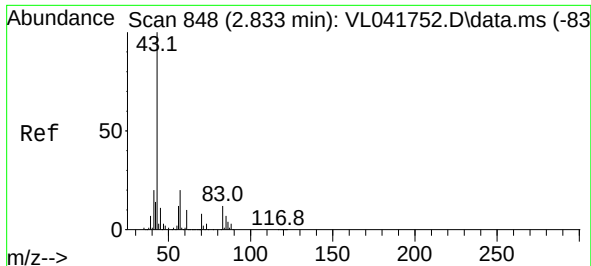
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#24
 1,1-Dichloroethane
 Concen: 9.589 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Tgt Ion: 63 Resp: 87006
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.3 6.8
 100 3.0 1.4 4.2





#25

Ethyl Acetate

Concen: 9.965 ppbv

RT: 2.835 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 43 Resp: 234370

Ion Ratio Lower Upper

43 100

45 10.2 8.1 12.1

61 8.6 7.0 10.6

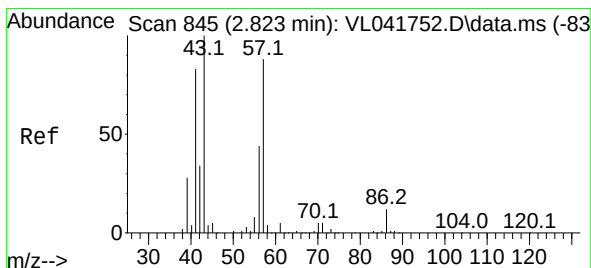
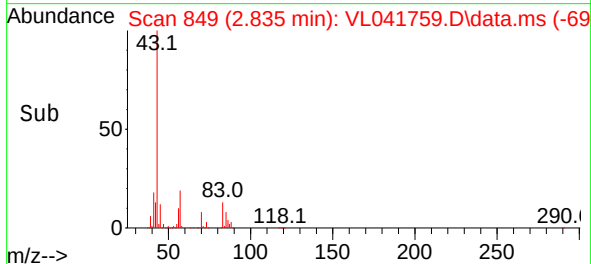
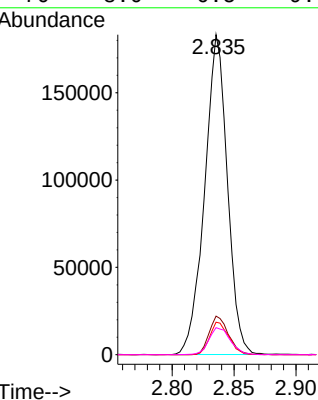
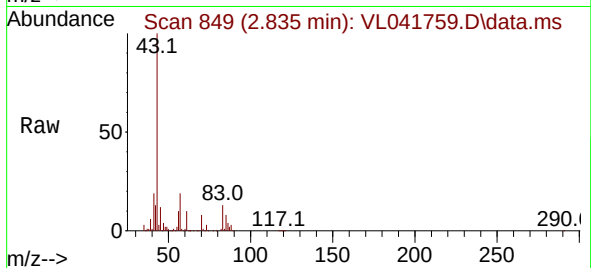
70 8.0 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#26

Hexane

Concen: 9.752 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 57 Resp: 87034

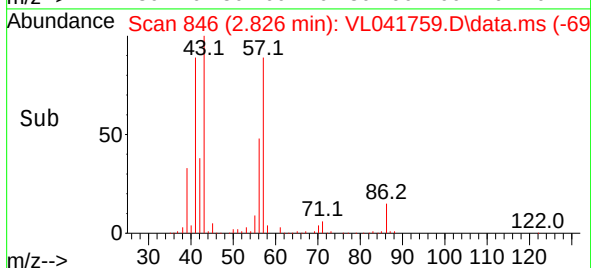
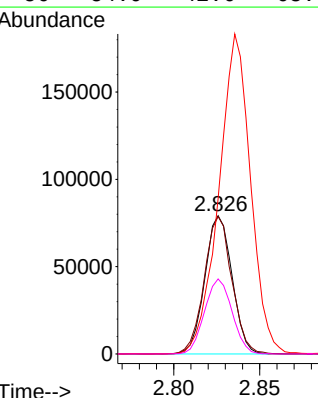
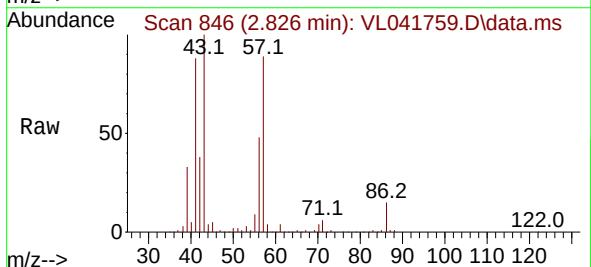
Ion Ratio Lower Upper

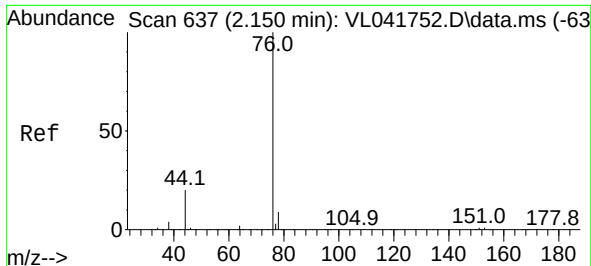
57 100

41 101.5 79.6 119.4

43 270.5 211.0 316.6

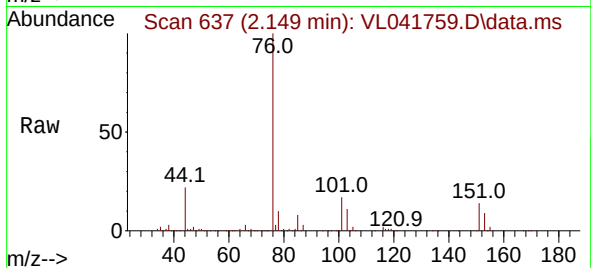
56 54.9 42.6 63.8





#27
Carbon Disulfide
Concen: 10.649 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

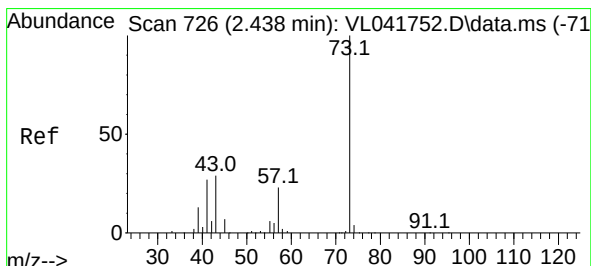
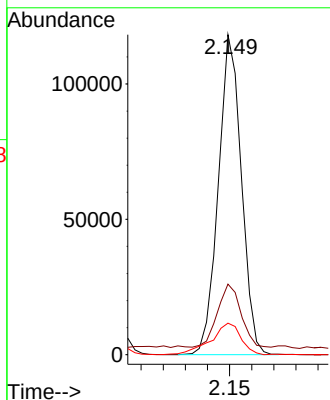
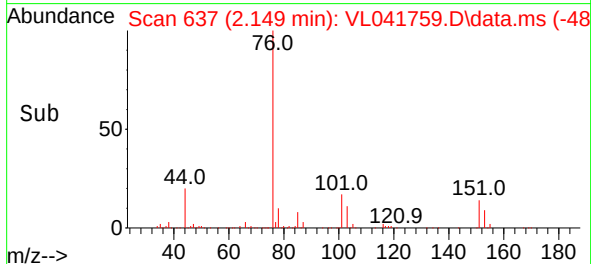
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



Tgt Ion: 76 Resp: 85650
Ion Ratio Lower Upper
76 100
44 22.3 17.6 26.4
78 12.9 10.2 15.4

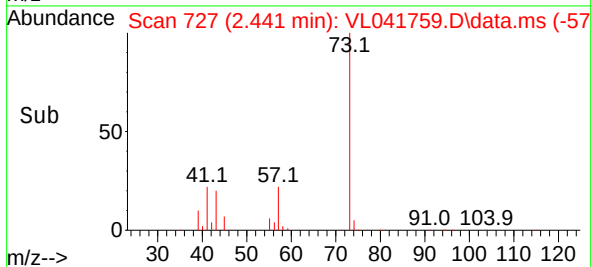
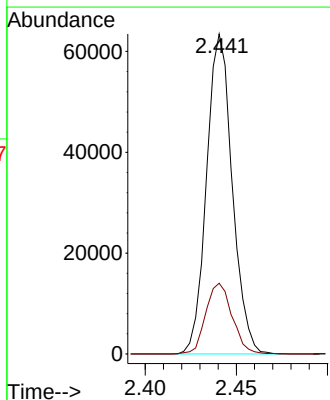
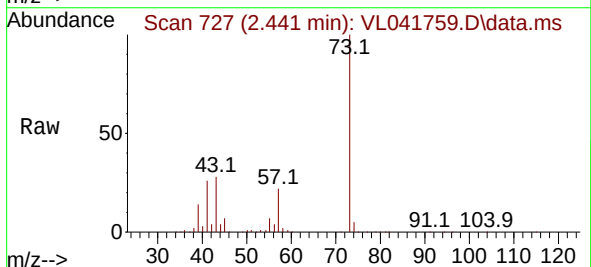
Manual Integrations
APPROVED

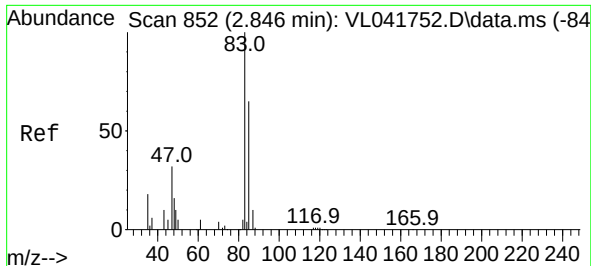
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#28
Methyl tert-Butyl Ether
Concen: 8.589 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 73 Resp: 62189
Ion Ratio Lower Upper
73 100
57 22.7 17.6 26.4





#29

Chloroform

Concen: 9.892 ppbv

RT: 2.848 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 83 Resp: 13454

Ion Ratio Lower Upper

83 100

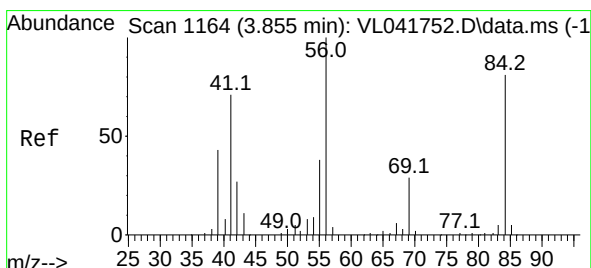
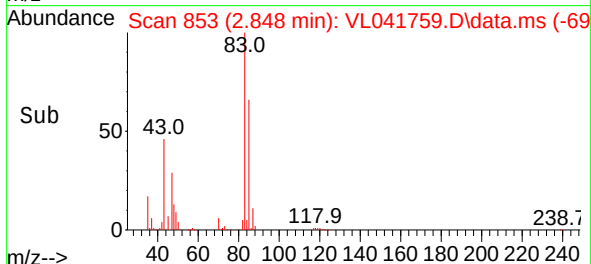
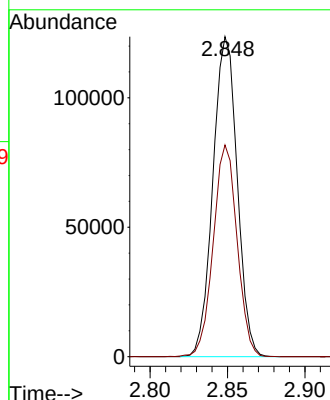
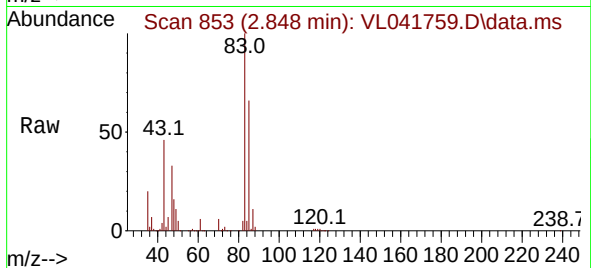
85 66.2 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#30

Cyclohexane

Concen: 9.912 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

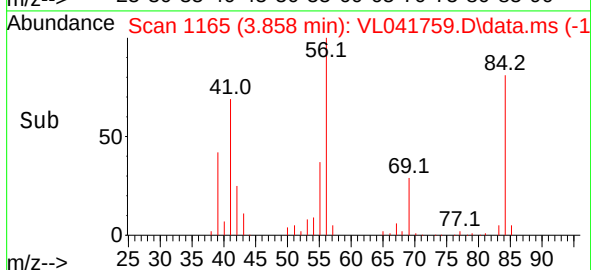
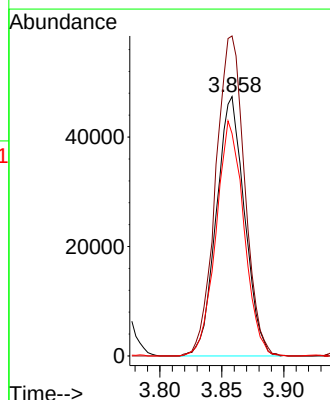
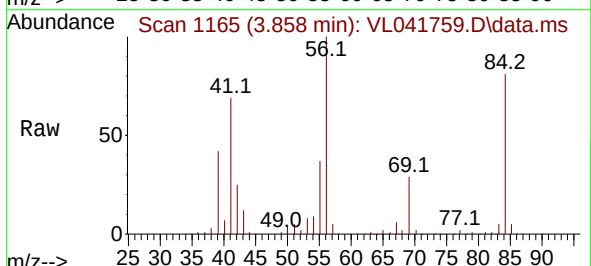
Tgt Ion: 84 Resp: 75274

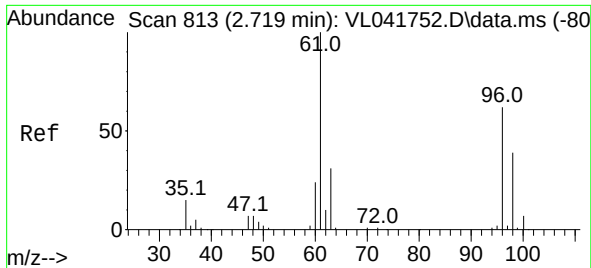
Ion Ratio Lower Upper

84 100

56 126.5 102.3 153.5

41 89.3 74.0 111.0





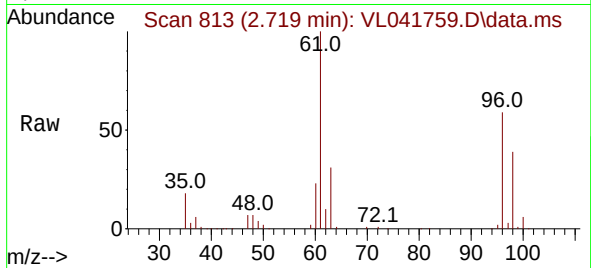
#31
 cis-1,2-Dichloroethene
 Concen: 9.935 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

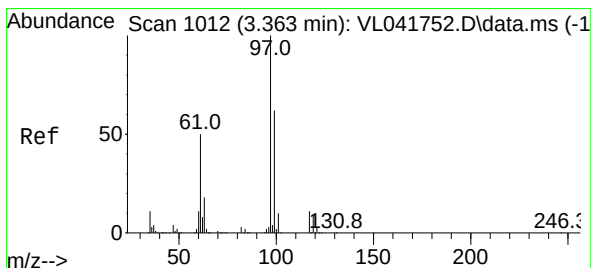
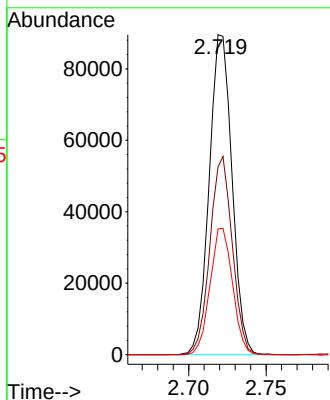
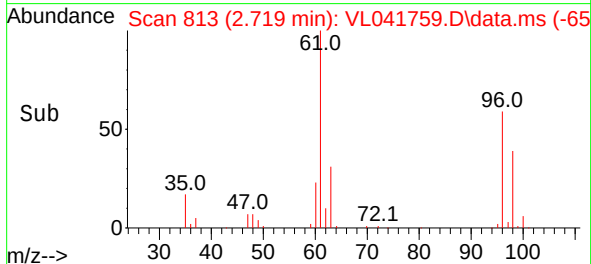


Tgt Ion: 61 Resp: 91628
 Ion Ratio Lower Upper
 61 100
 96 58.7 49.7 74.5
 98 39.3 30.8 46.2

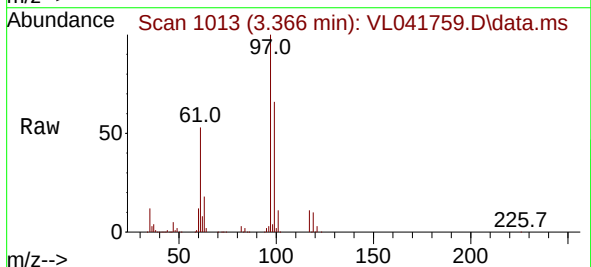
Manual Integrations

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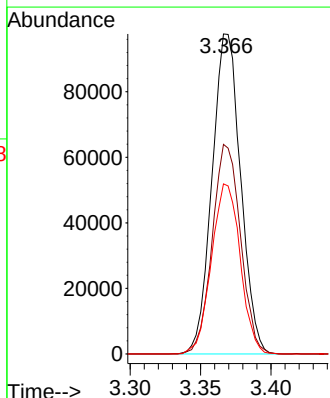
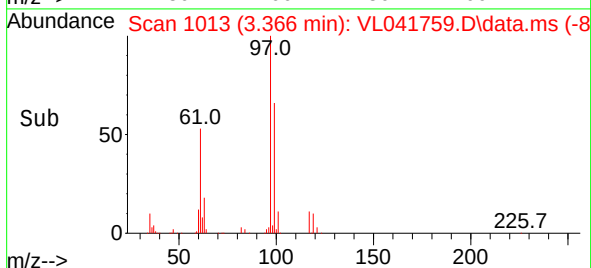
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

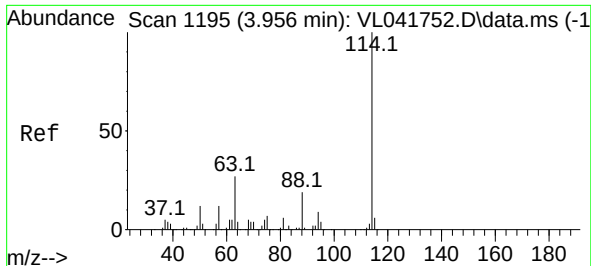


#32
 1,1,1-Trichloroethane
 Concen: 9.979 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59



Tgt Ion: 97 Resp: 137978
 Ion Ratio Lower Upper
 97 100
 99 64.8 51.0 76.4
 61 53.5 42.2 63.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

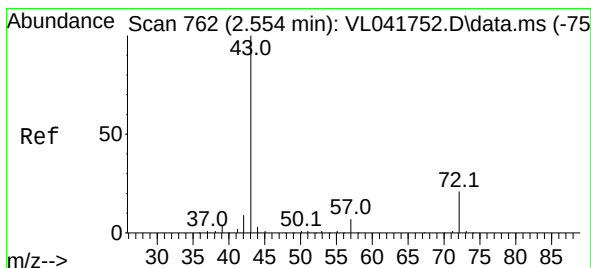
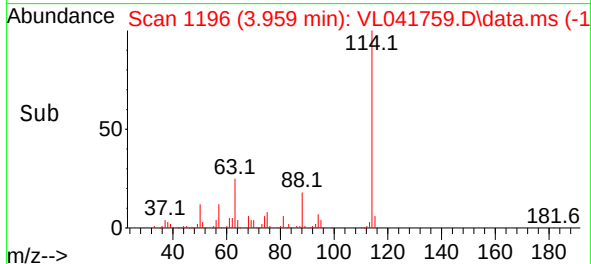
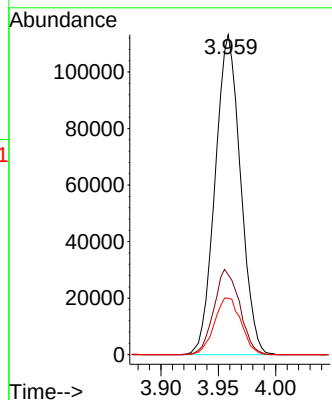
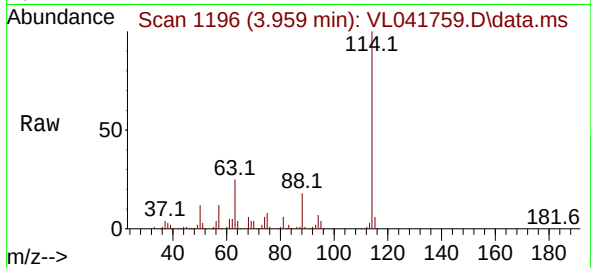
ICVVL121624

Tgt Ion:114 Resp: 174378
Ion Ratio Lower Upper
114 100
63 27.0 21.8 32.8
88 18.6 14.8 22.2

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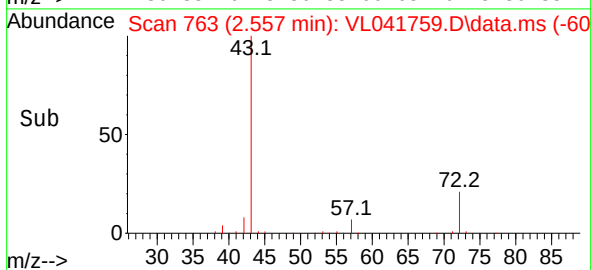
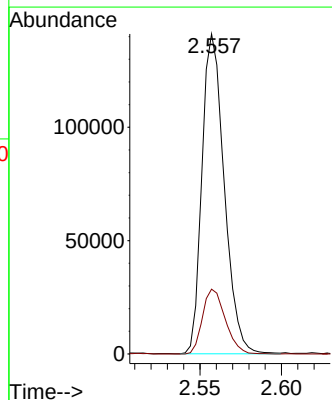
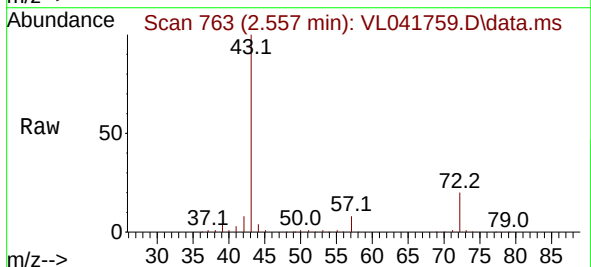
APPROVED

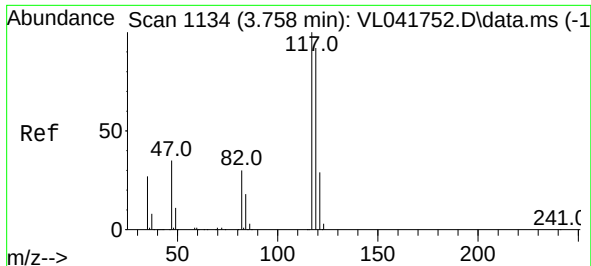
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#34
2-Butanone
Concen: 9.547 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

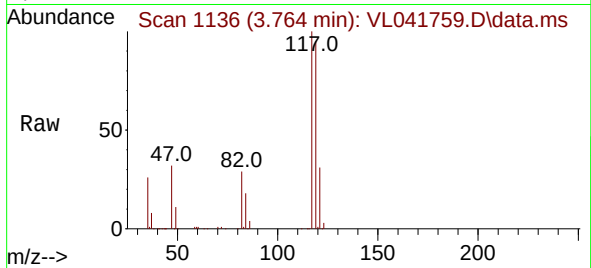
Tgt Ion: 43 Resp: 133939
Ion Ratio Lower Upper
43 100
72 20.7 16.8 25.2





#35
Carbon Tetrachloride
Concen: 11.191 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

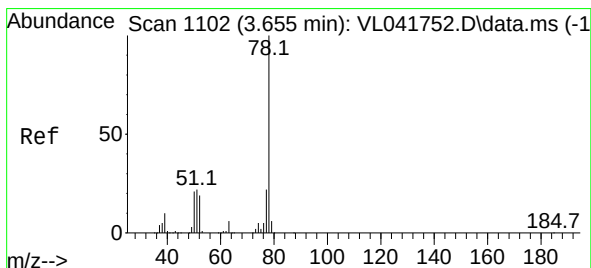
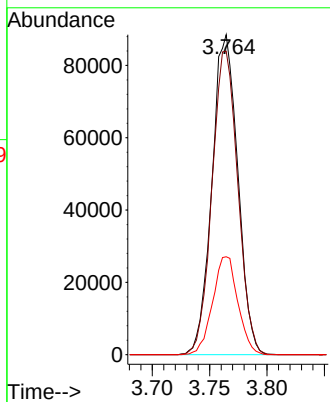
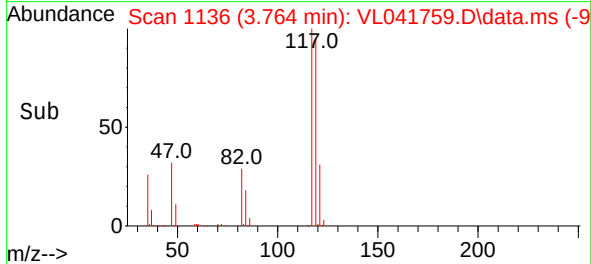
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



Tgt Ion:117 Resp: 13853
Ion Ratio Lower Upper
117 100
119 94.8 73.7 110.5
121 30.6 23.0 34.4

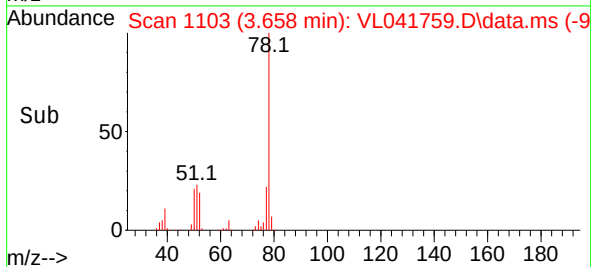
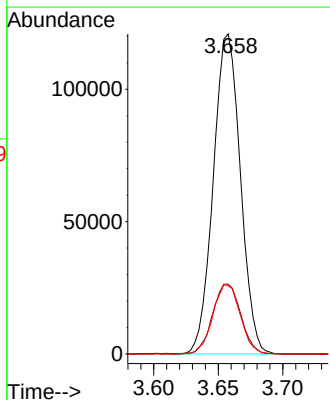
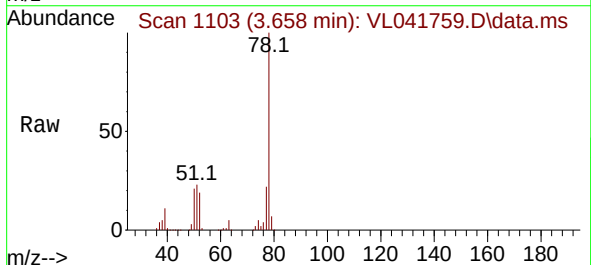
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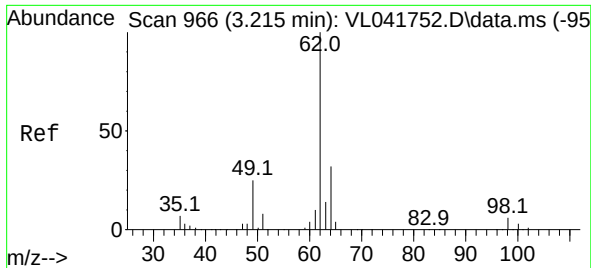
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#36
Benzene
Concen: 9.787 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 78 Resp: 176537
Ion Ratio Lower Upper
78 100
77 21.8 17.8 26.6
50 21.3 17.2 25.8





#37
1,2-Dichloroethane
Concen: 9.982 ppbv
RT: 3.221 min Scan# 90
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

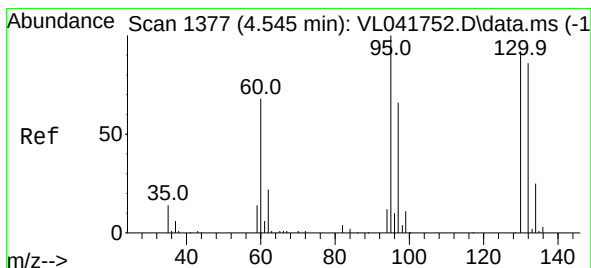
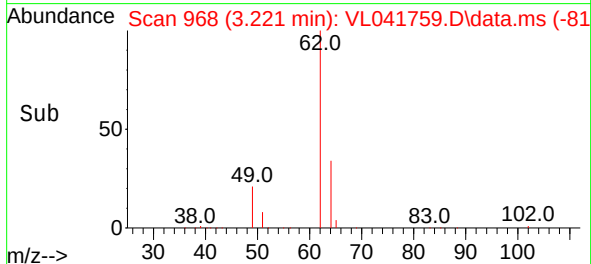
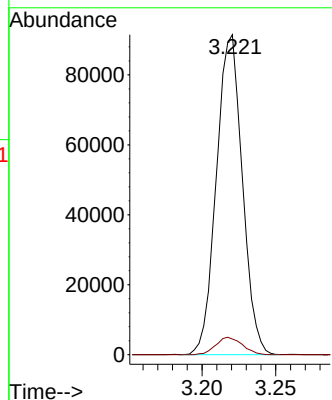
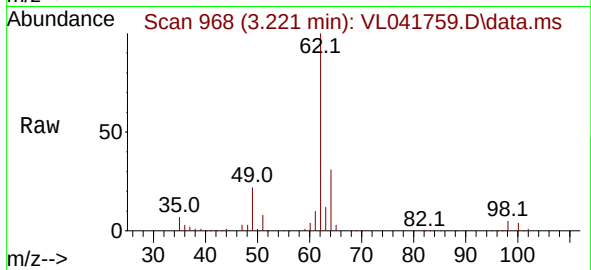
ICVVL121624

Tgt Ion: 62 Resp: 11203
Ion Ratio Lower Upper
62 100
98 5.5 4.7 7.1

Manual Integrations

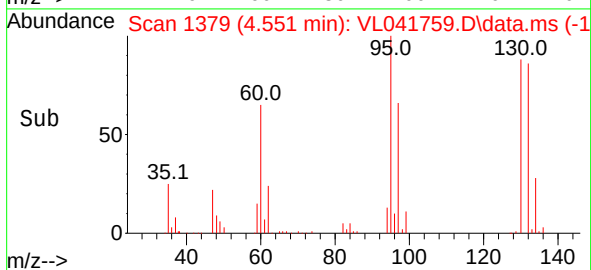
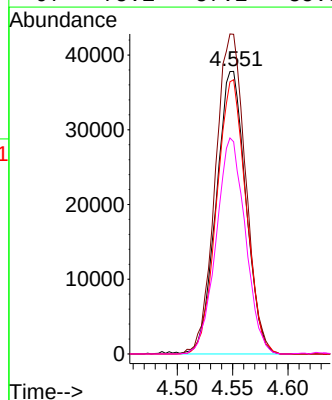
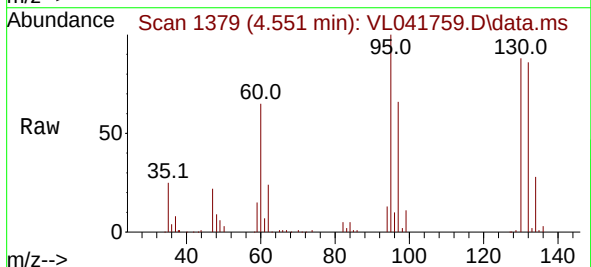
APPROVED

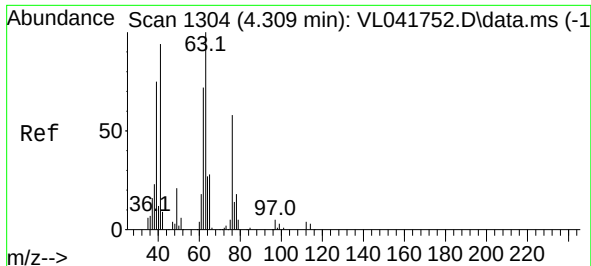
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#38
Trichloroethene
Concen: 9.156 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:130 Resp: 70108
Ion Ratio Lower Upper
130 100
95 113.2 87.0 130.6
132 97.0 75.0 112.6
97 75.1 57.2 85.8





#39

1,2-Dichloropropane

Concen: 9.761 ppbv

RT: 4.318 min Scan# 1307

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

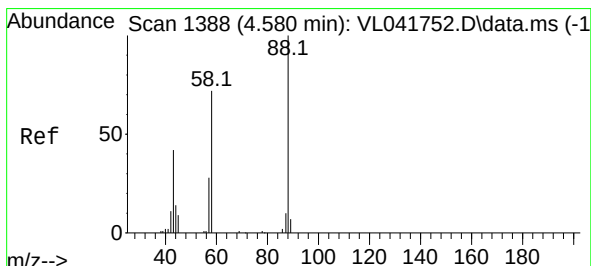
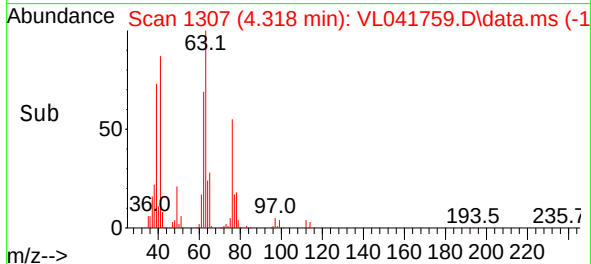
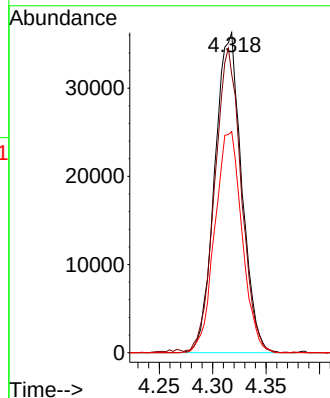
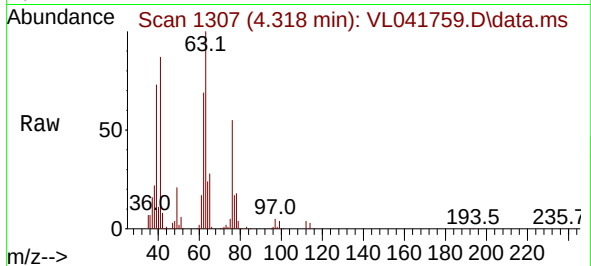
Tgt Ion: 63 Resp: 63679

Ion	Ratio	Lower	Upper
63	100		
41	87.0	75.3	112.9
62	69.1	57.3	85.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#40

1,4-Dioxane

Concen: 9.693 ppbv

RT: 4.583 min Scan# 1389

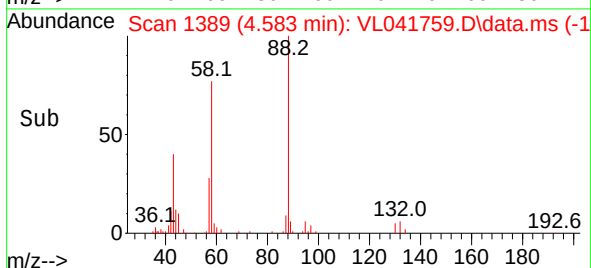
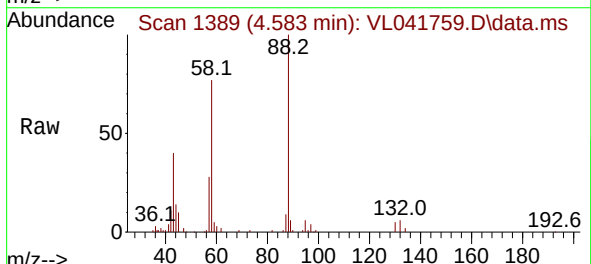
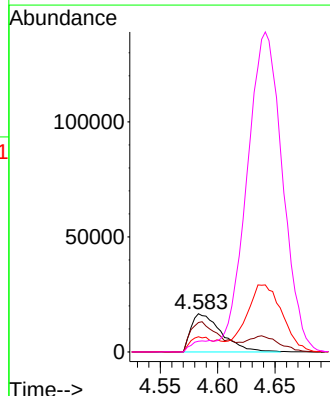
Delta R.T. 0.003 min

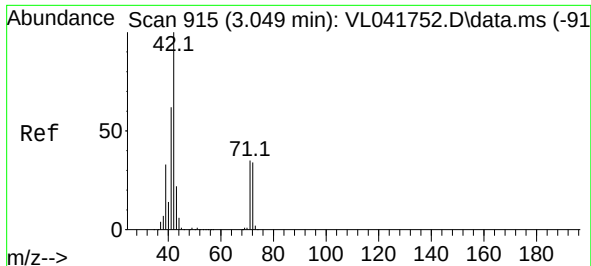
Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 88 Resp: 30891

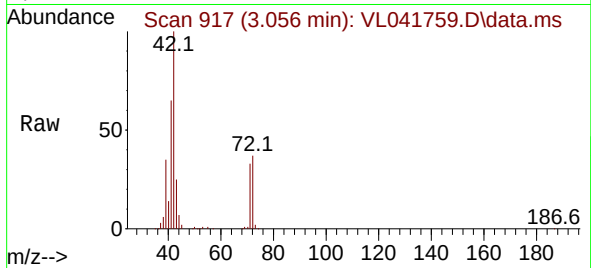
Ion	Ratio	Lower	Upper
88	100		
58	76.6	61.0	91.6
43	39.2	29.4	44.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.857 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

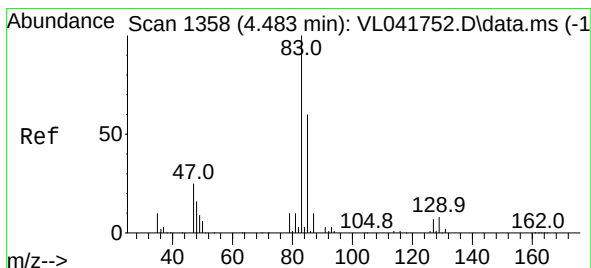
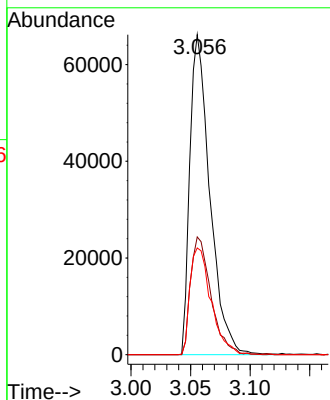
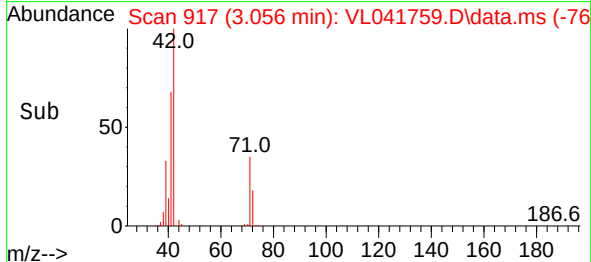
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



Tgt Ion: 42 Resp: 77472
Ion Ratio Lower Upper
42 100
72 37.5 29.1 43.7
71 35.4 28.4 42.6

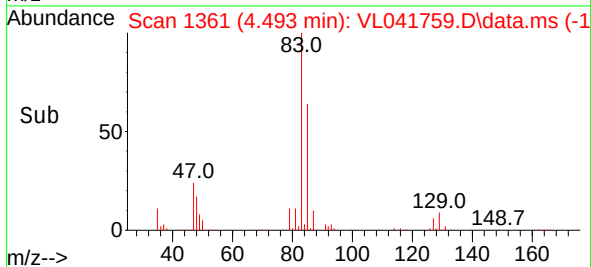
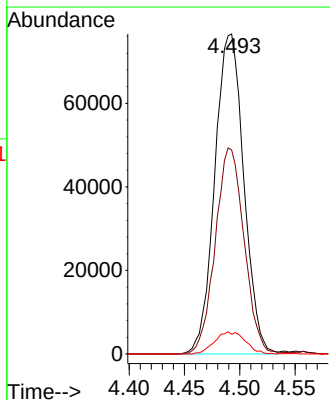
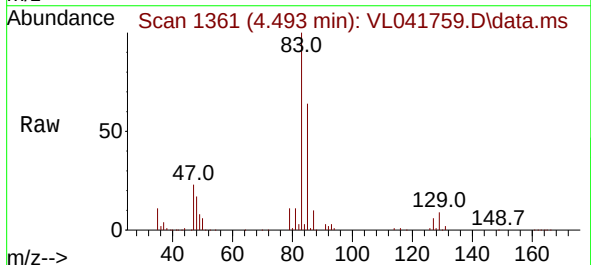
Manual Integrations
APPROVED

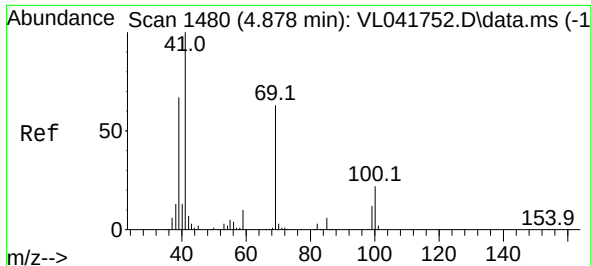
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#42
Bromodichloromethane
Concen: 10.821 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 83 Resp: 139717
Ion Ratio Lower Upper
83 100
85 63.7 48.0 72.0
127 6.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 10.229 ppbv

RT: 4.881 min Scan# 1480

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

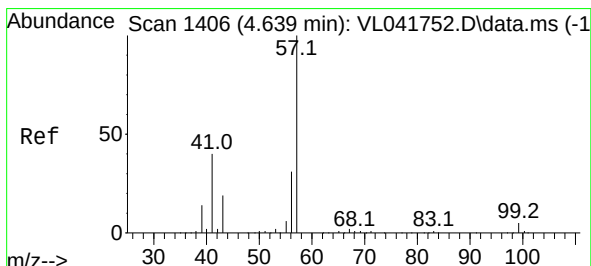
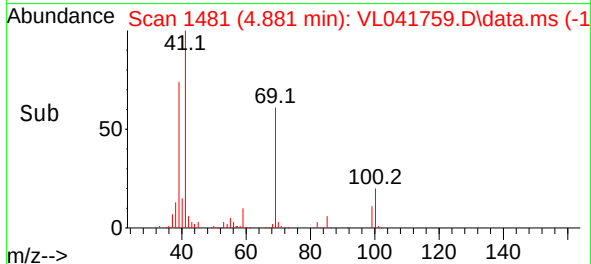
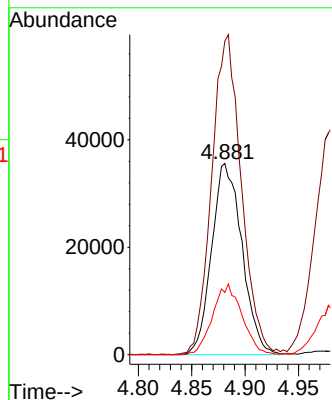
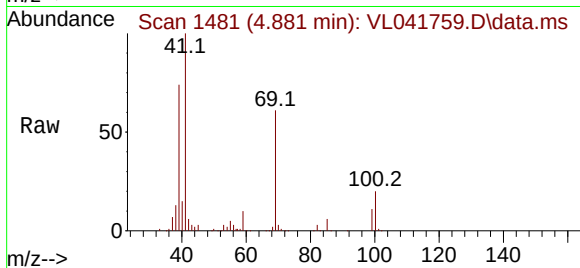
Tgt Ion: 69 Resp: 70299

Ion	Ratio	Lower	Upper
69	100		
41	162.5	130.3	195.5
100	35.8	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#44

2,2,4-Trimethylpentane

Concen: 9.796 ppbv

RT: 4.641 min Scan# 1407

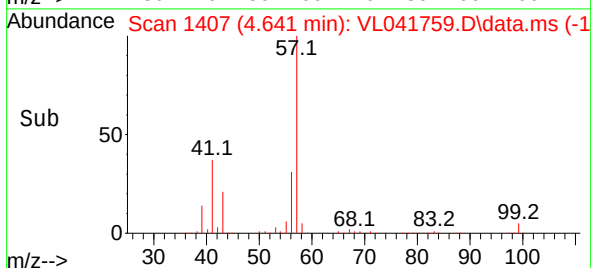
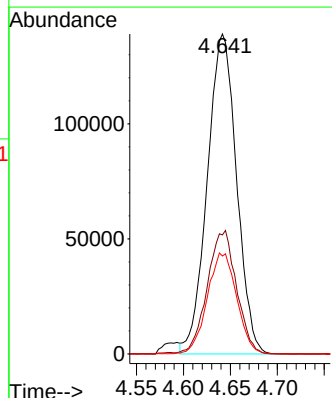
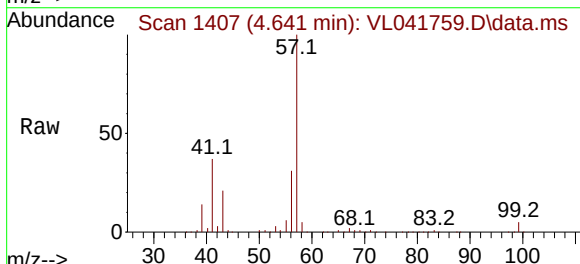
Delta R.T. 0.003 min

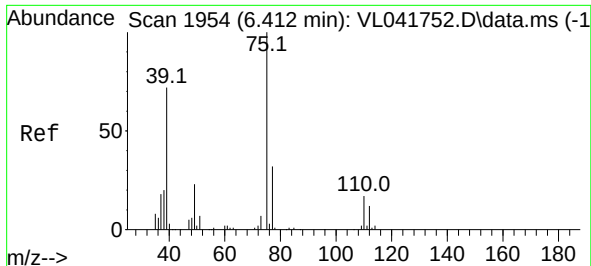
Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 57 Resp: 301772

Ion	Ratio	Lower	Upper
57	100		
41	38.8	30.7	46.1
56	31.7	25.4	38.0





#45

t-1,3-Dichloropropene

Concen: 10.907 ppbv

RT: 6.415 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 75 Resp: 77534

Ion Ratio Lower Upper

75 100

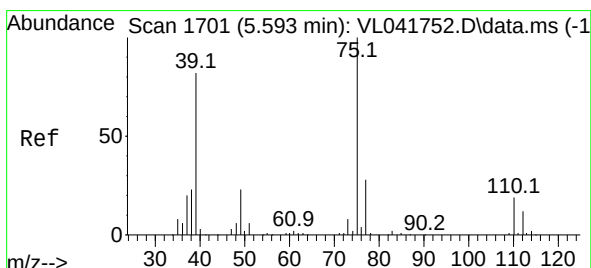
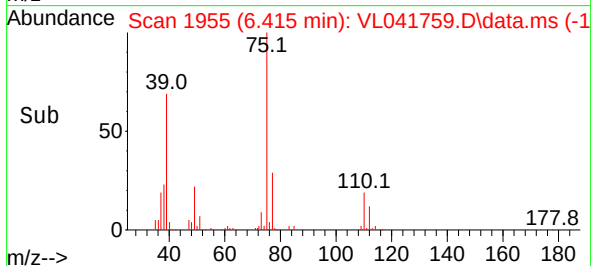
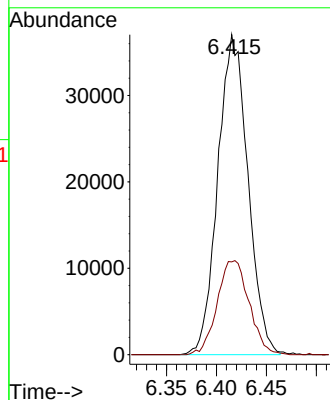
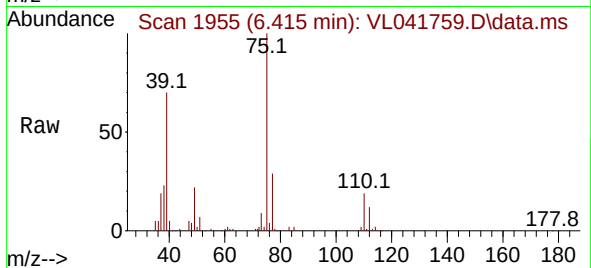
77 29.0 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#46

cis-1,3-Dichloropropene

Concen: 10.617 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

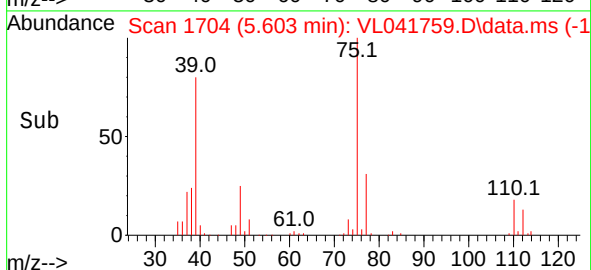
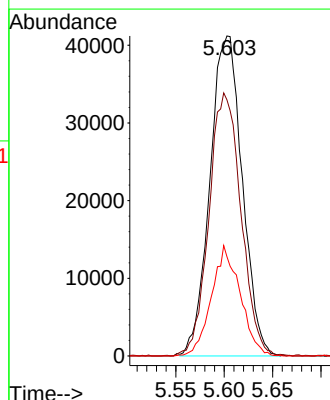
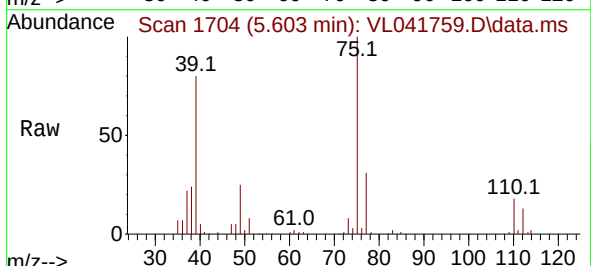
Tgt Ion: 75 Resp: 95812

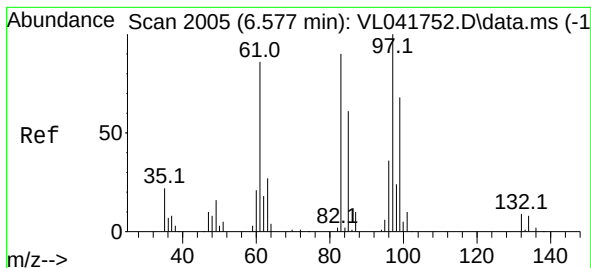
Ion Ratio Lower Upper

75 100

39 79.5 65.2 97.8

77 30.9 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 9.711 ppbv m

RT: 6.587 min Scan# 2005

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 97 Resp: 66169

Ion Ratio Lower Upper

97 100

83 83.7 72.3 108.5

85 54.8 48.5 72.7

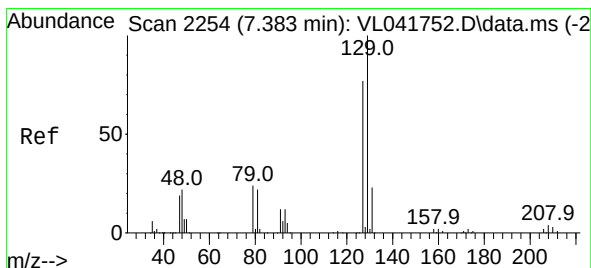
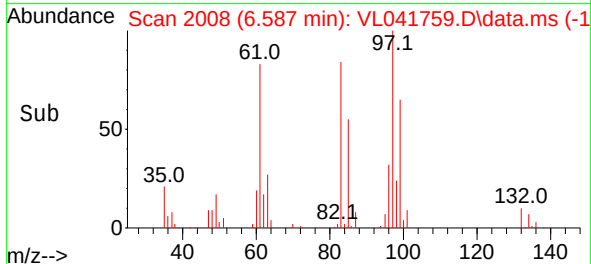
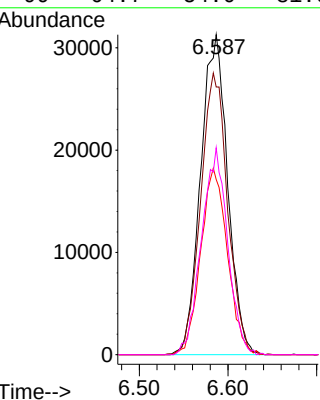
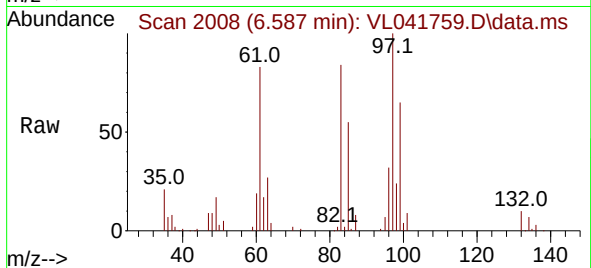
99 64.7 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#48

Dibromochloromethane

Concen: 11.326 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.006 min

Lab File: VL041759.D

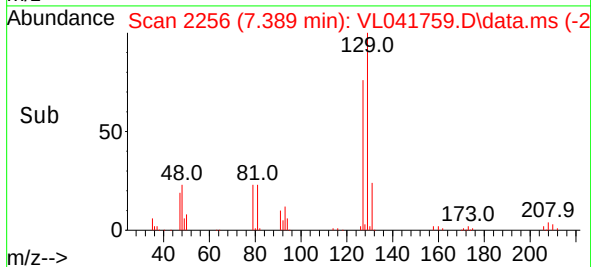
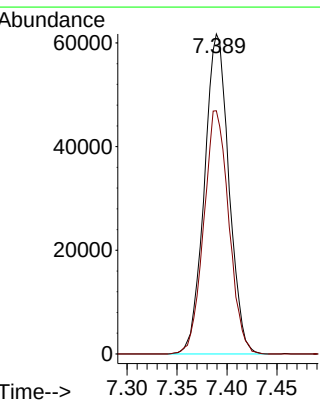
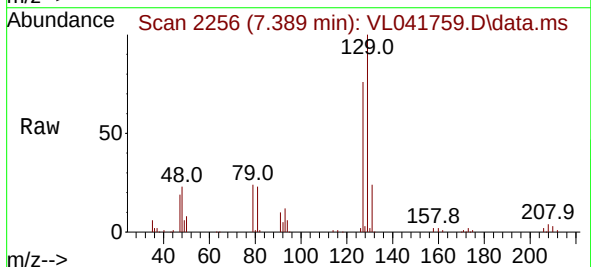
Acq: 16 Dec 2024 18:59

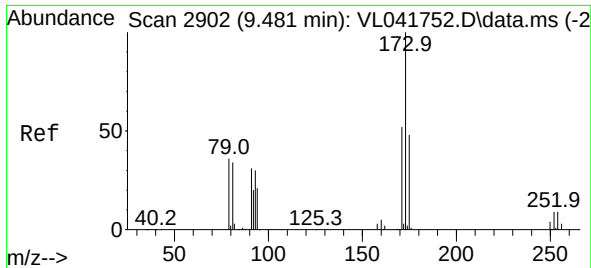
Tgt Ion:129 Resp: 105378

Ion Ratio Lower Upper

129 100

127 77.8 38.8 116.3





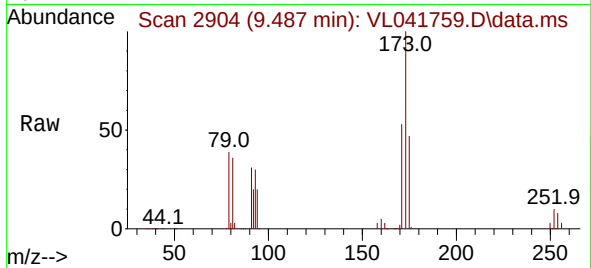
#49
Bromoform
Concen: 11.682 ppbv
RT: 9.487 min Scan# 2902
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

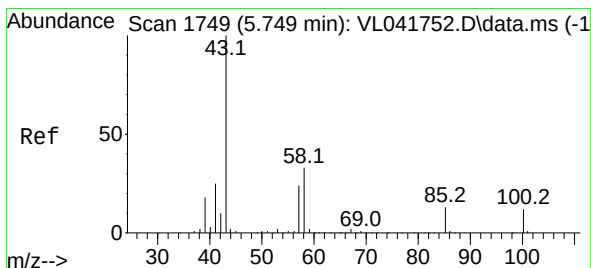
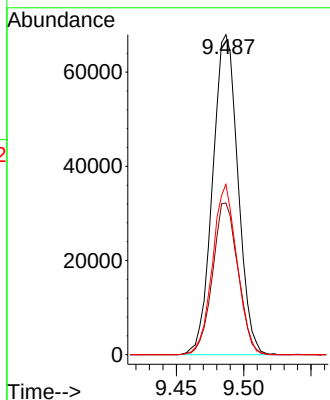
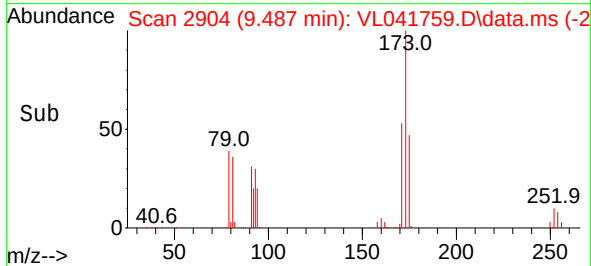


Tgt Ion:173 Resp: 8897
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 51.4 41.1 61.7

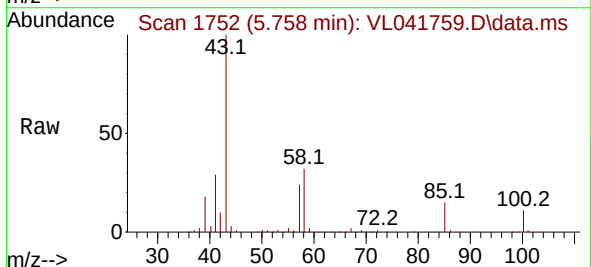
Manual Integrations

APPROVED

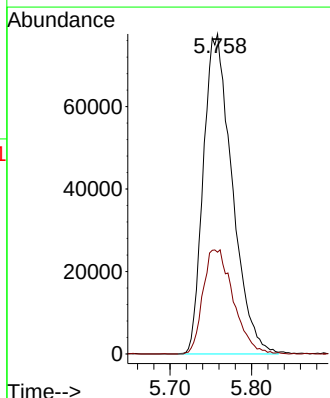
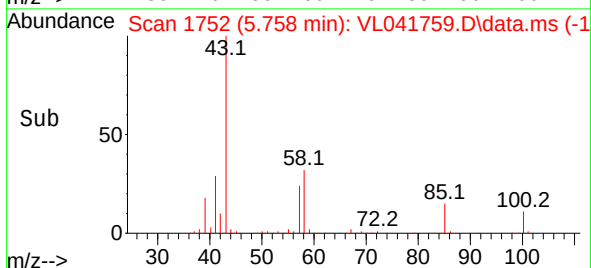
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

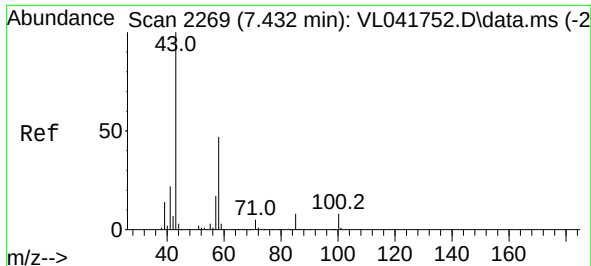


#50
4-Methyl-2-Pentanone
Concen: 9.980 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



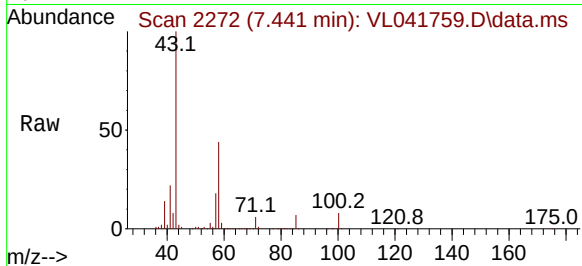
Tgt Ion: 43 Resp: 190637
Ion Ratio Lower Upper
43 100
58 34.3 26.8 40.2





#51
2-Hexanone
Concen: 10.053 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

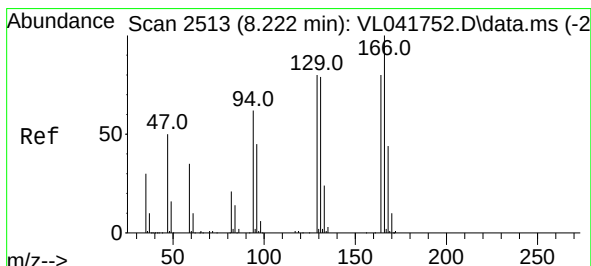
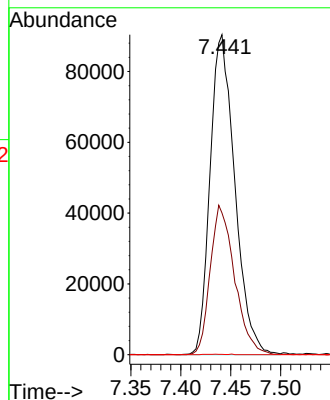
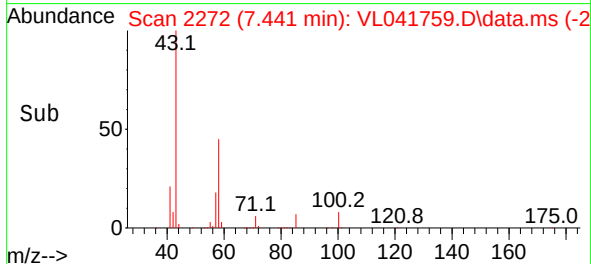
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



Tgt Ion: 43 Resp: 155640
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.1 0.1 0.1

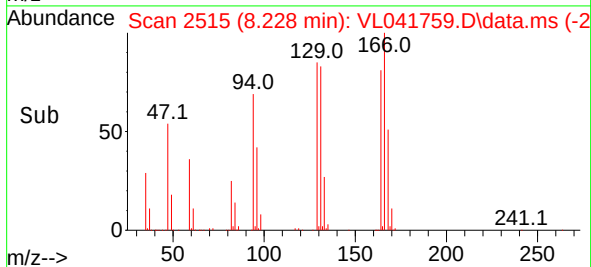
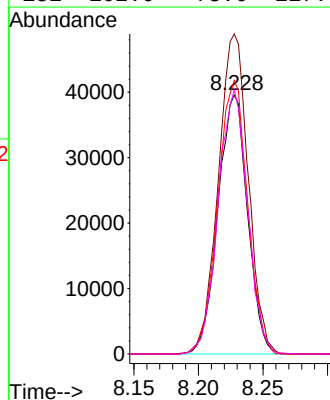
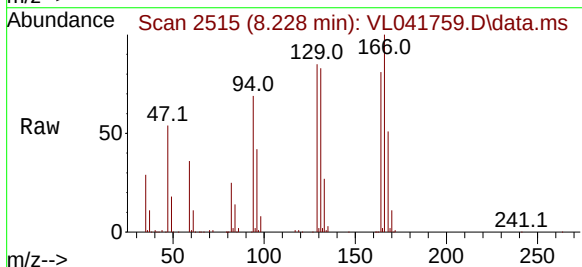
Manual Integrations
APPROVED

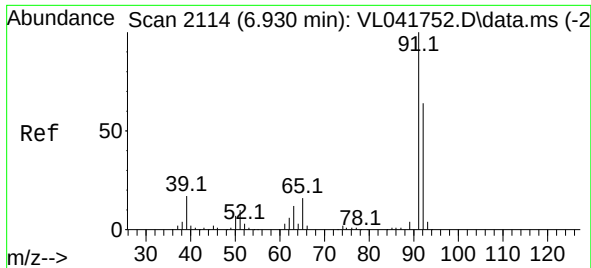
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#52
Tetrachloroethene
Concen: 9.351 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:164 Resp: 62782
Ion Ratio Lower Upper
164 100
166 123.4 99.8 149.6
129 105.6 79.6 119.4
131 102.0 78.6 117.8





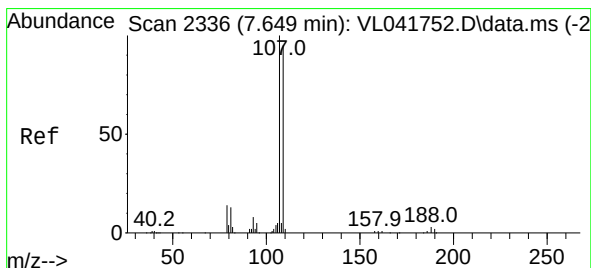
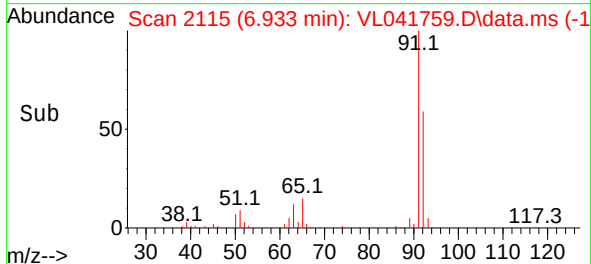
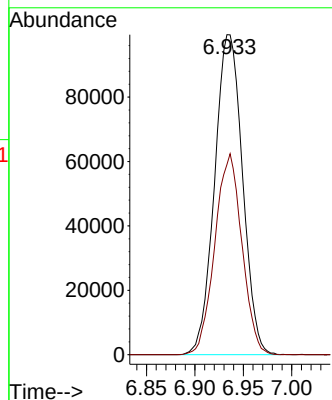
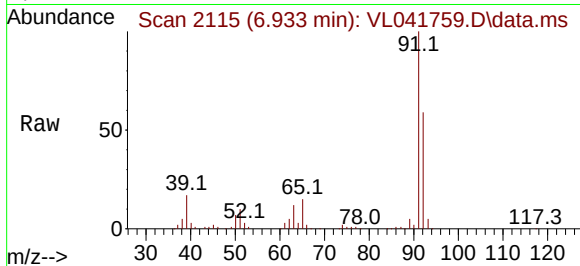
#53
Toluene
Concen: 9.768 ppbv
RT: 6.933 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 91 Resp: 19975
Ion Ratio Lower Upper
91 100
92 60.8 47.9 71.9

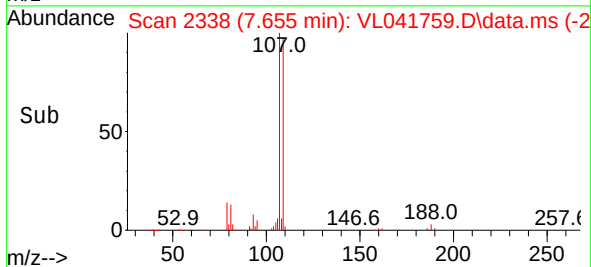
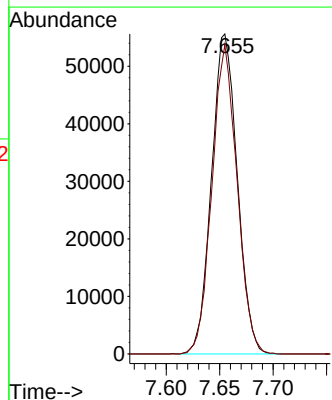
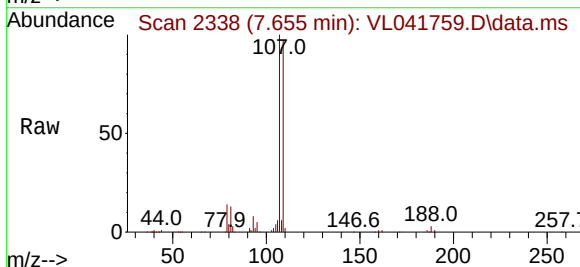
Manual Integrations
APPROVED

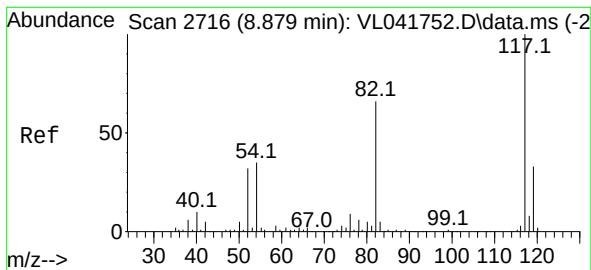
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#54
1,2-Dibromoethane
Concen: 9.952 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:107 Resp: 93439
Ion Ratio Lower Upper
107 100
109 96.6 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

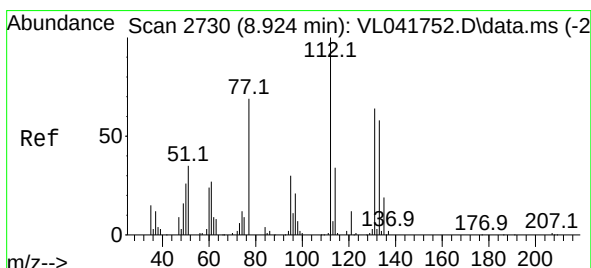
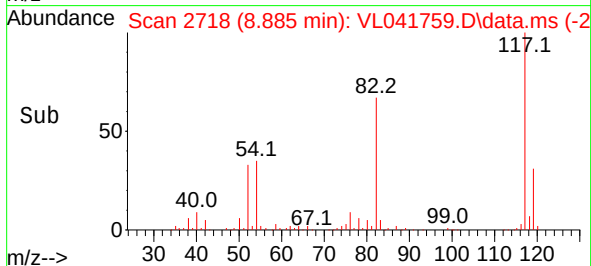
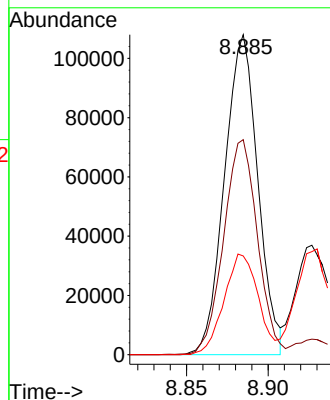
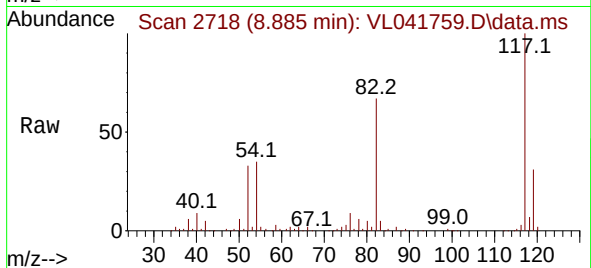
Tgt Ion:117 Resp: 15344

Ion	Ratio	Lower	Upper
117	100		
82	73.4	53.8	80.8
119	32.8	26.7	40.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 10.558 ppbv

RT: 8.927 min Scan# 2731

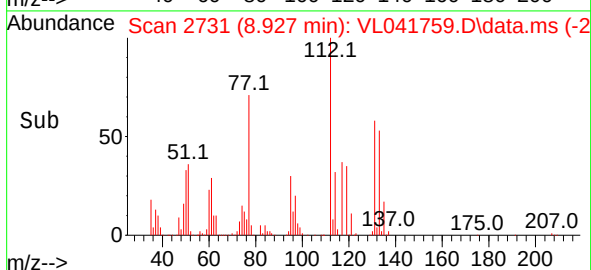
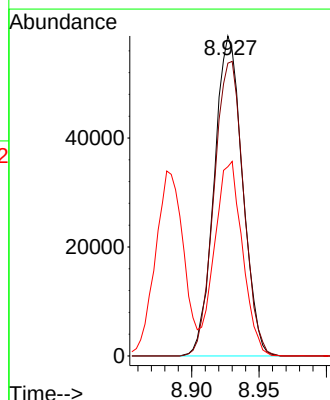
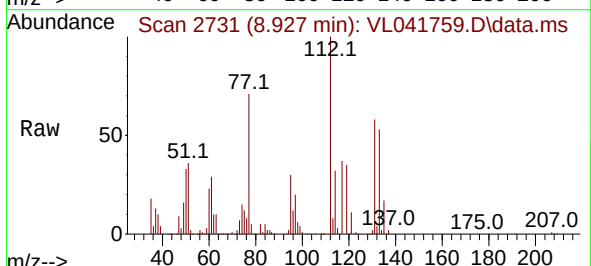
Delta R.T. 0.003 min

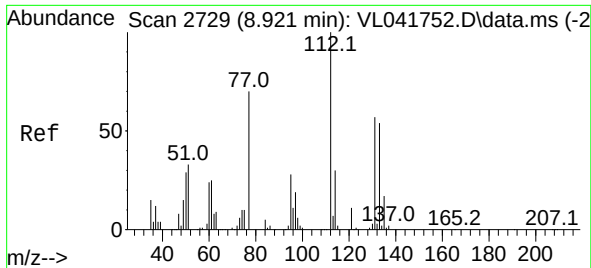
Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:131 Resp: 85883

Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.8	115.2
119	60.2	49.0	73.6





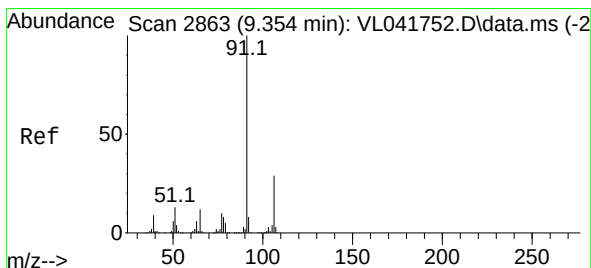
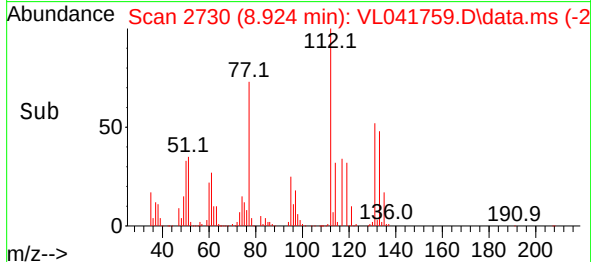
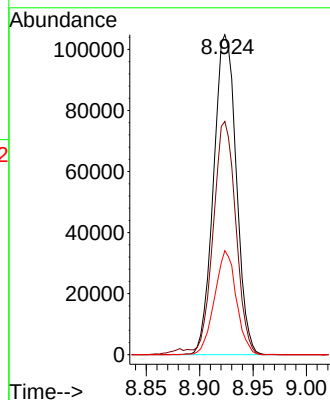
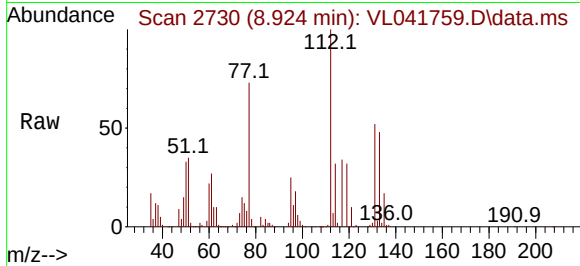
#57
Chlorobenzene
Concen: 9.888 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 112 Resp: 15525
Ion Ratio Lower Upper
112 100
77 72.9 57.4 86.0
114 32.5 27.4 33.4

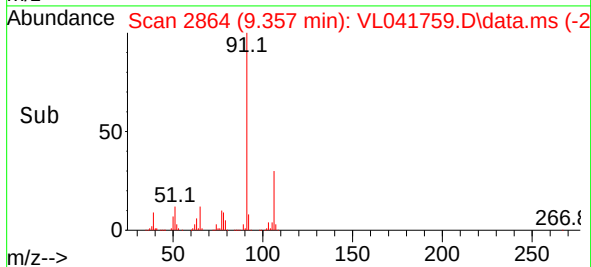
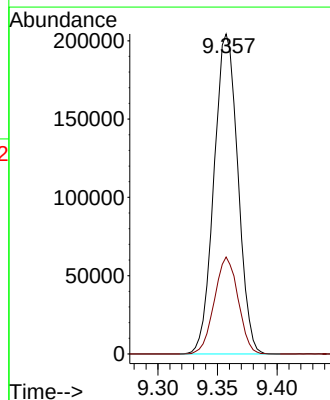
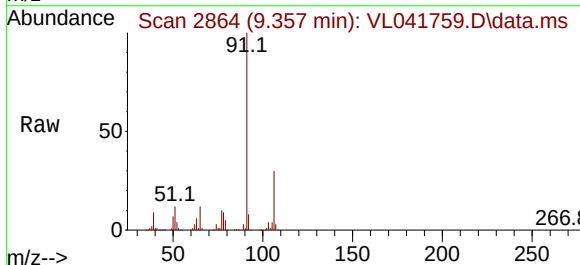
Manual Integrations
APPROVED

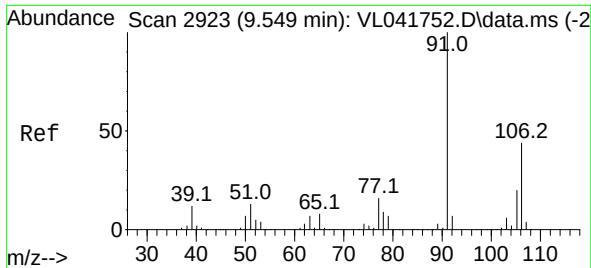
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#58
Ethyl Benzene
Concen: 10.308 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 91 Resp: 284770
Ion Ratio Lower Upper
91 100
106 30.3 23.5 35.3





#59

m/p-Xylene

Concen: 20.669 ppbv m

RT: 9.555 min Scan# 2923

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 91 Resp: 45910

Ion Ratio Lower Upper

91 100

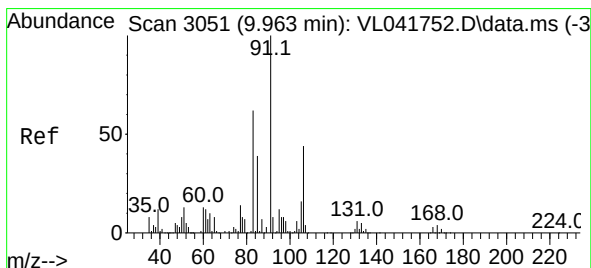
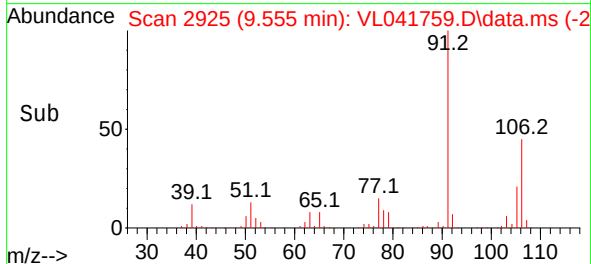
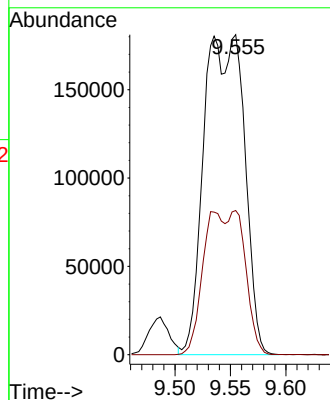
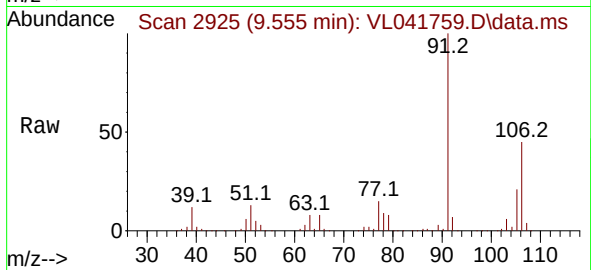
106 45.5 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#60

o-Xylene

Concen: 10.304 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL041759.D

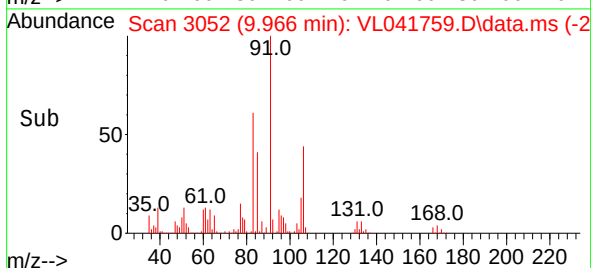
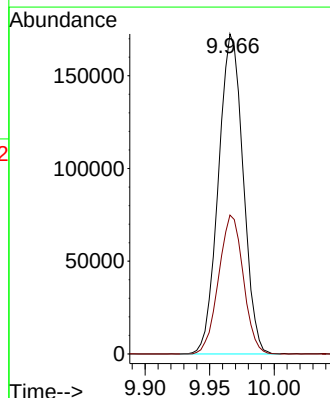
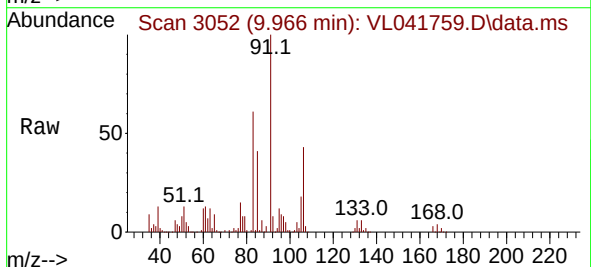
Acq: 16 Dec 2024 18:59

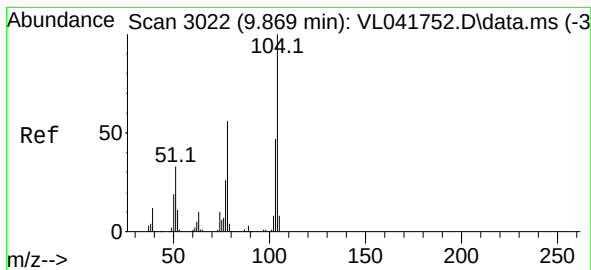
Tgt Ion: 91 Resp: 229517

Ion Ratio Lower Upper

91 100

106 43.3 21.1 63.4





#61

Styrene

Concen: 11.093 ppbv

RT: 9.875 min Scan# 3022

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion:104 Resp: 10684

Ion Ratio Lower Upper

104 100

78 54.8 43.8 65.6

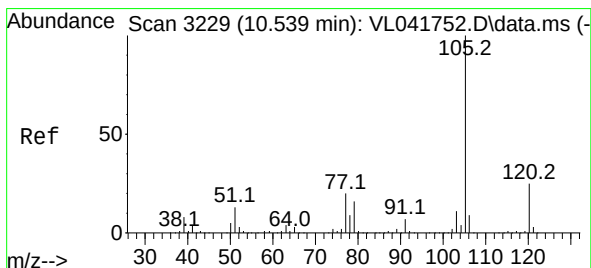
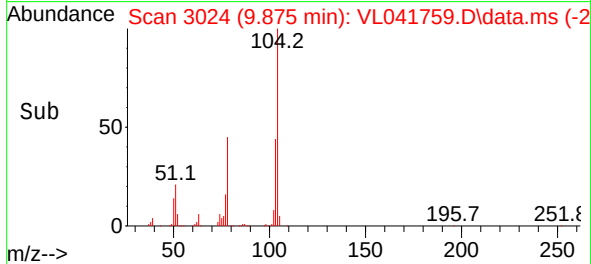
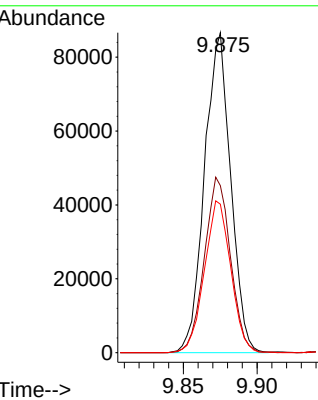
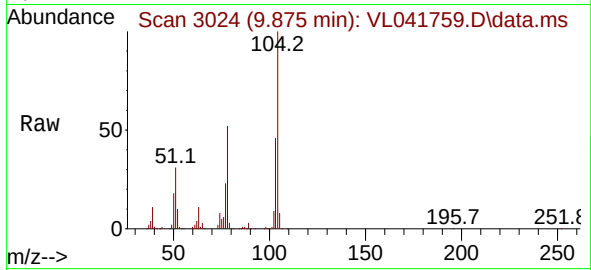
103 47.9 37.8 56.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#62

Isopropylbenzene

Concen: 10.425 ppbv

RT: 10.542 min Scan# 3230

Delta R.T. 0.003 min

Lab File: VL041759.D

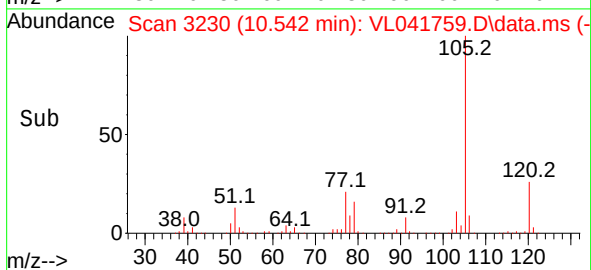
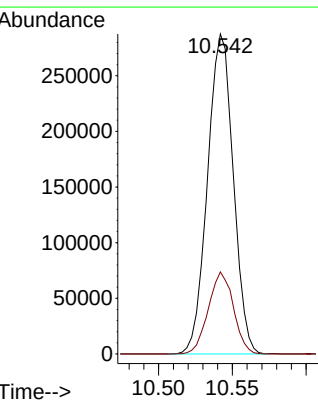
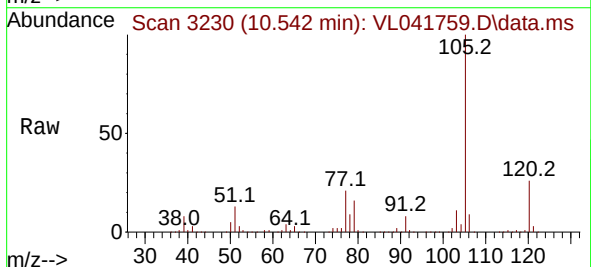
Acq: 16 Dec 2024 18:59

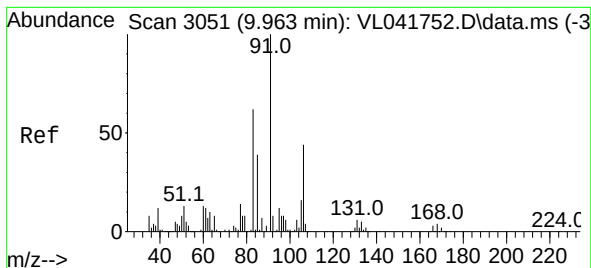
Tgt Ion:105 Resp: 348887

Ion Ratio Lower Upper

105 100

120 25.0 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 9.865 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL041759.D

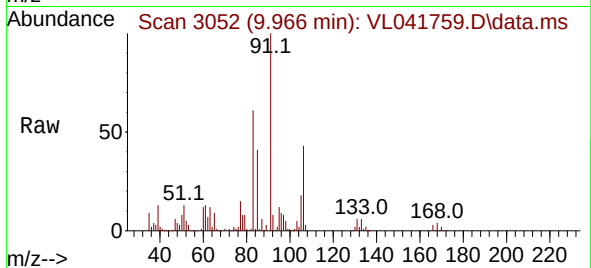
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

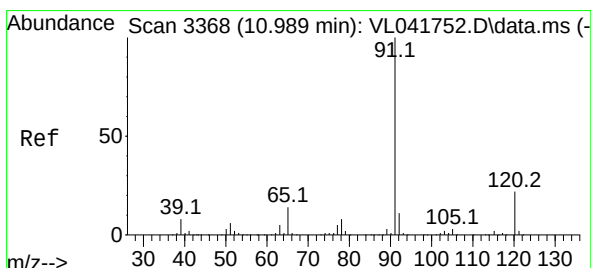
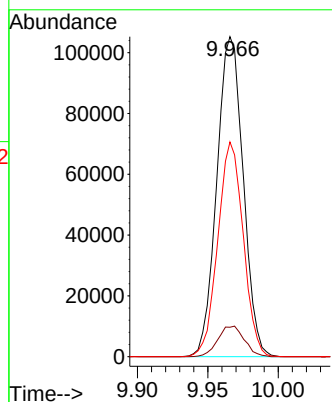
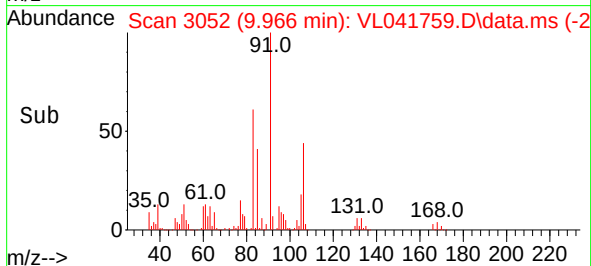


Tgt Ion:	83	Resp:	13754
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.9	14.7
85	64.6	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#64

n-propylbenzene

Concen: 10.384 ppbv

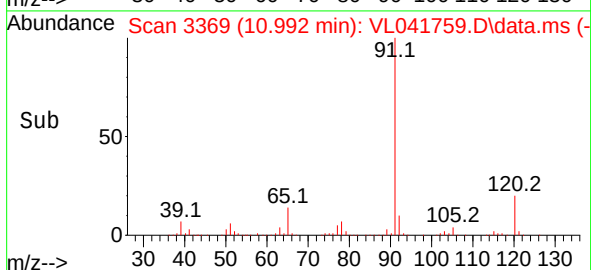
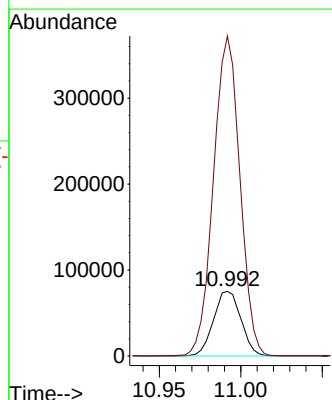
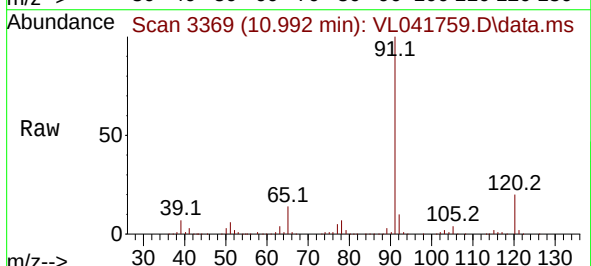
RT: 10.992 min Scan# 3369

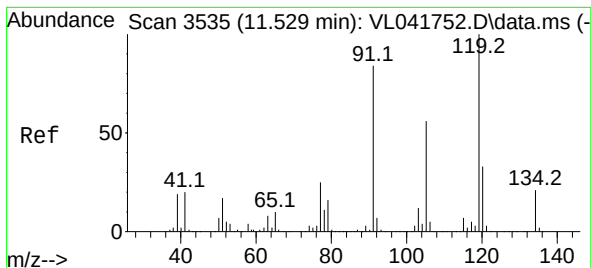
Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:	120	Resp:	87865
Ion Ratio	Lower	Upper	
120	100		
91	479.0	387.3	580.9





#65

tert-Butylbenzene

Concen: 10.194 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

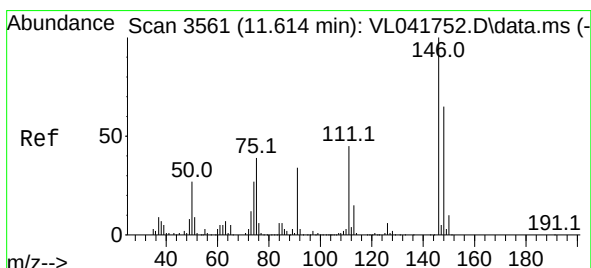
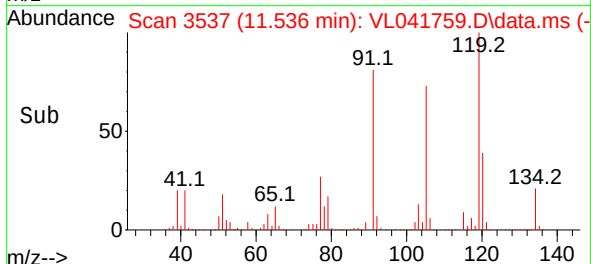
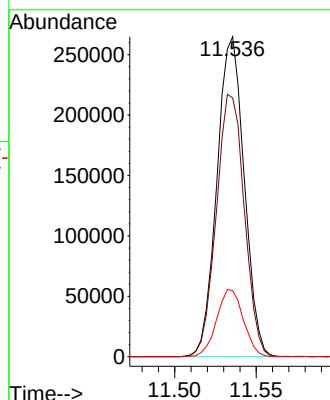
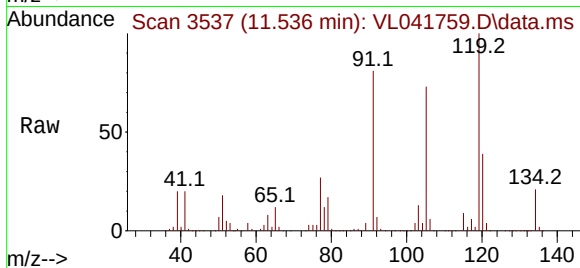
Tgt Ion:119 Resp: 307790

Ion	Ratio	Lower	Upper
119	100		
91	84.2	67.0	100.4
134	20.5	16.5	24.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#66

Benzyl Chloride

Concen: 11.054 ppbv

RT: 11.620 min Scan# 3563

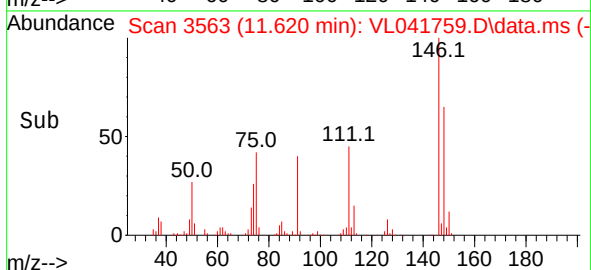
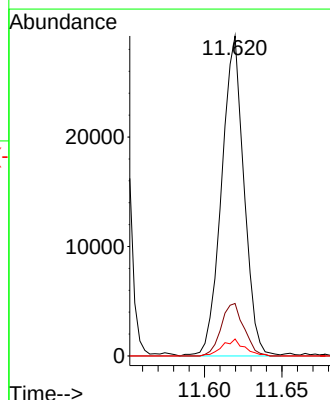
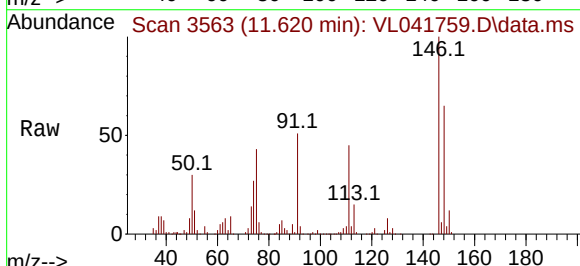
Delta R.T. 0.006 min

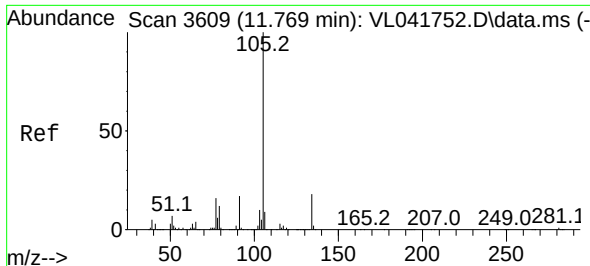
Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 91 Resp: 29398

Ion	Ratio	Lower	Upper
91	100		
126	16.7	13.9	20.9
128	5.2	4.4	6.6





#67

sec-Butylbenzene

Concen: 10.304 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion:105 Resp: 43052

Ion Ratio Lower Upper

105 100

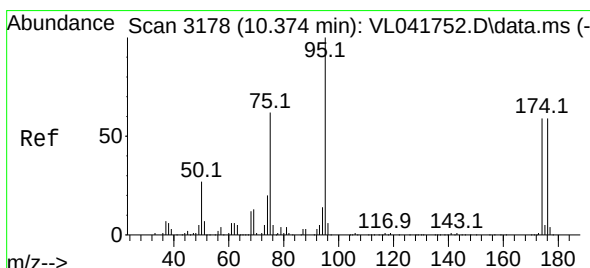
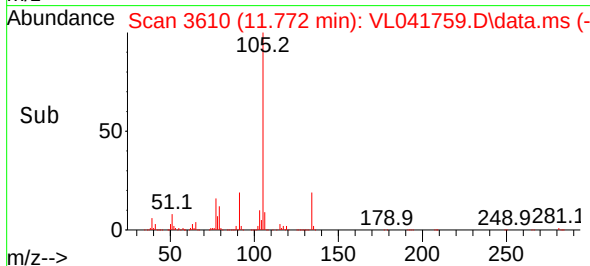
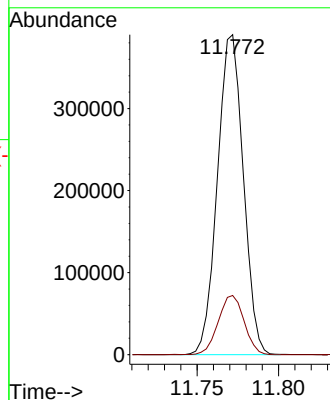
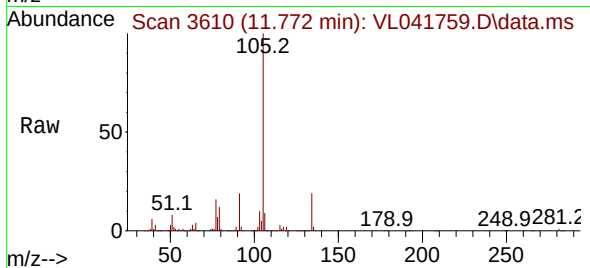
134 18.5 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 10.166 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

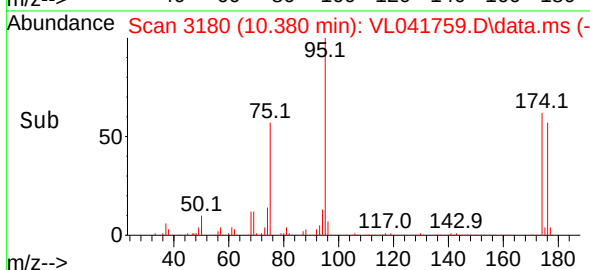
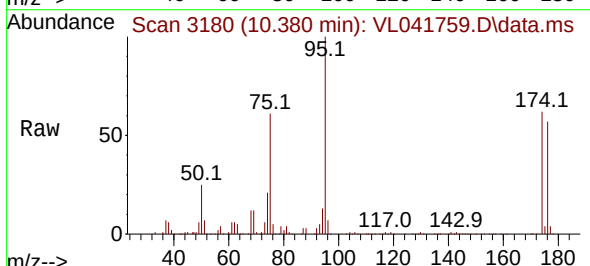
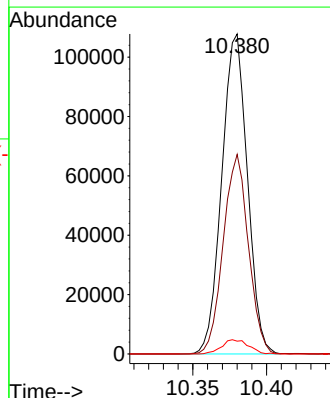
Tgt Ion: 95 Resp: 129985

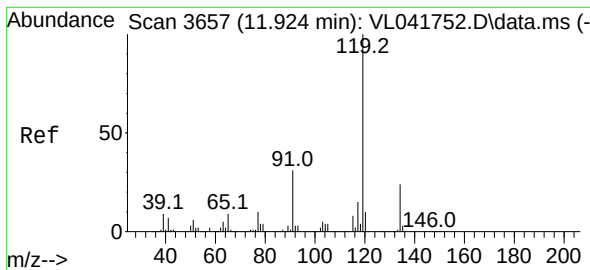
Ion Ratio Lower Upper

95 100

174 61.3 47.6 71.4

175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 10.620 ppbv

RT: 11.927 min Scan# 3656

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

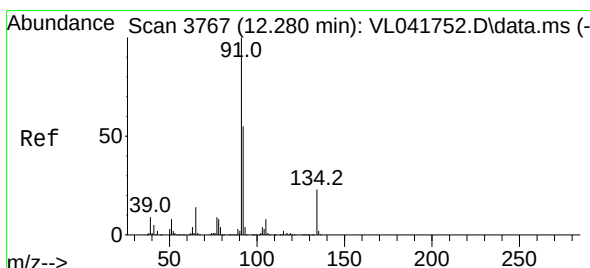
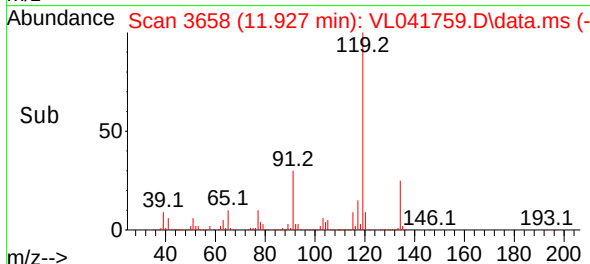
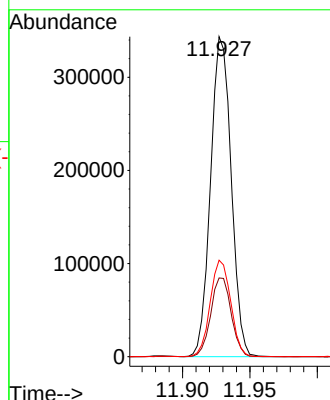
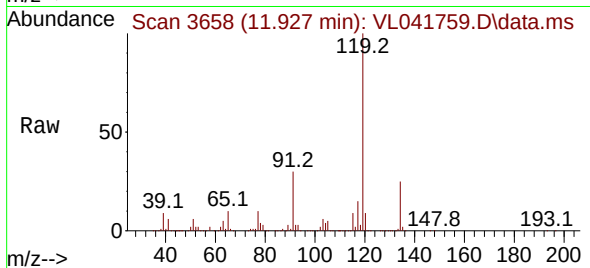
ICVVL121624

Tgt Ion:	119	Resp:	36566
Ion Ratio	Lower	Upper	
119	100		
134	24.5	19.6	29.4
91	30.1	24.4	36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#70

n-Butylbenzene

Concen: 10.727 ppbv

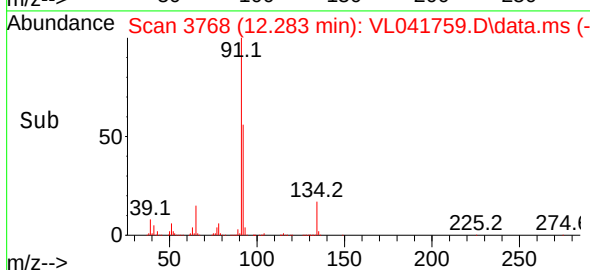
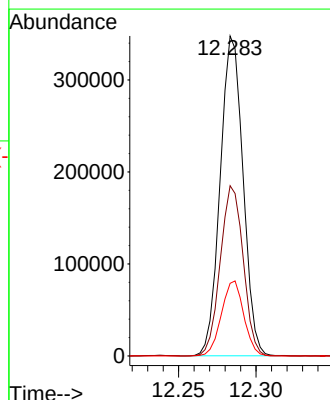
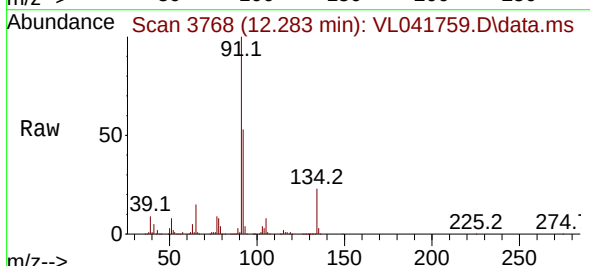
RT: 12.283 min Scan# 3768

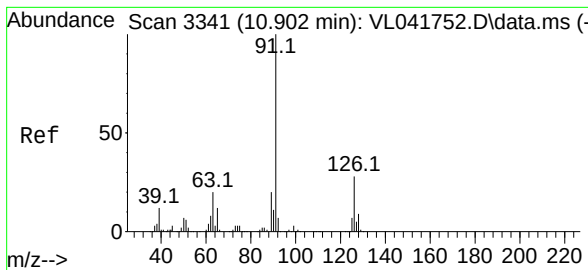
Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:	91	Resp:	356880
Ion Ratio	Lower	Upper	
91	100		
92	53.6	43.2	64.8
134	23.0	18.2	27.4





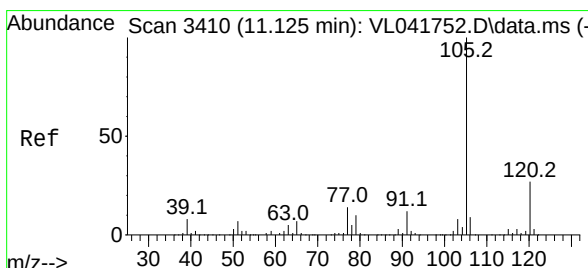
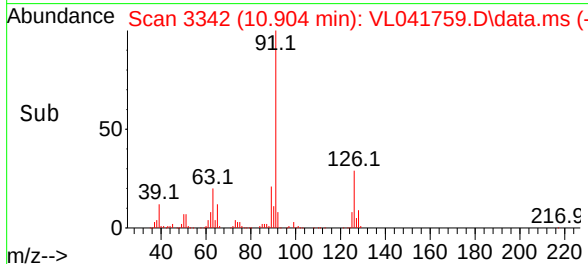
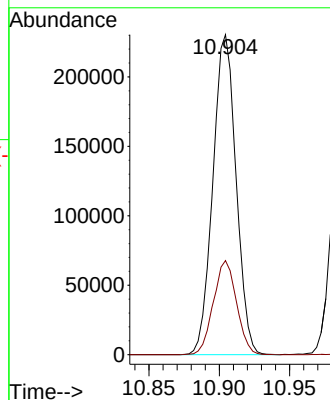
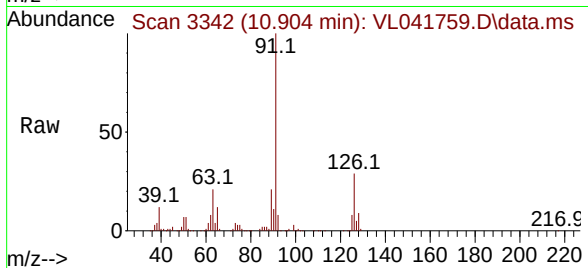
#71
2-Chlorotoluene
Concen: 10.340 ppbv
RT: 10.904 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 91 Resp: 26412
Ion Ratio Lower Upper
91 100
126 29.4 11.6 46.4

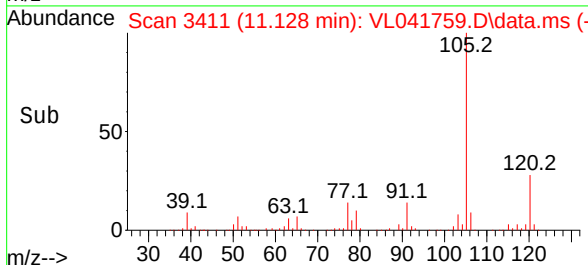
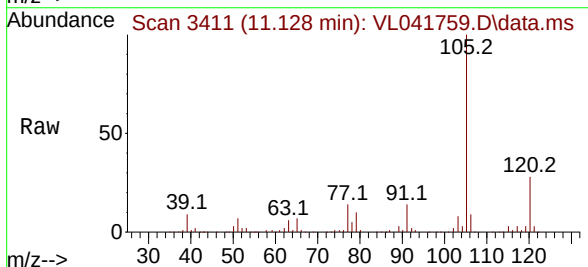
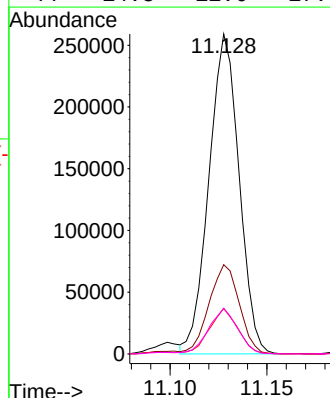
Manual Integrations
APPROVED

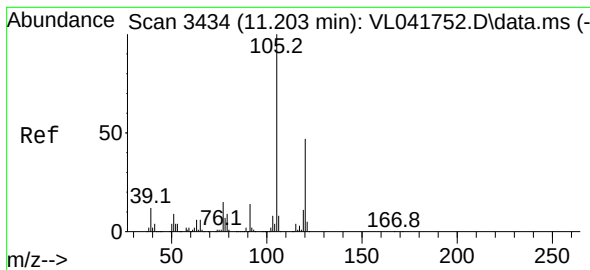
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#72
4-Ethyltoluene
Concen: 10.672 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:105 Resp: 280580
Ion Ratio Lower Upper
105 100
120 29.0 23.3 34.9
91 14.1 10.9 16.3
77 14.3 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 10.902 ppbv

RT: 11.205 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion:105 Resp: 237804

Ion Ratio Lower Upper

105 100

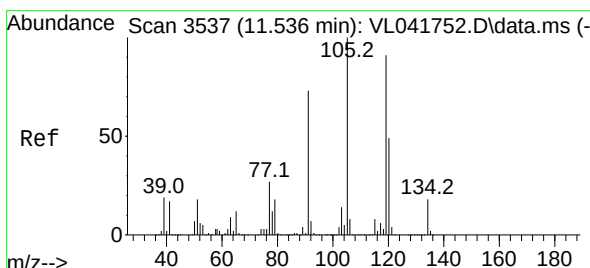
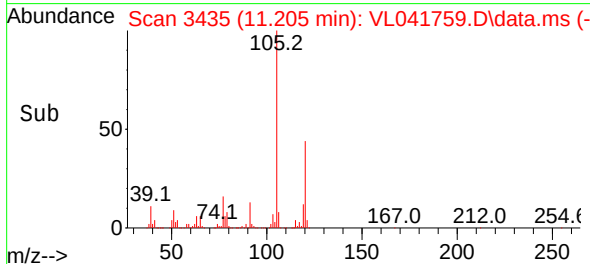
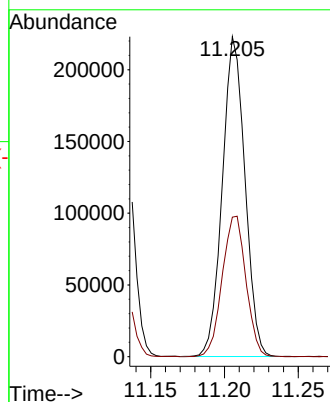
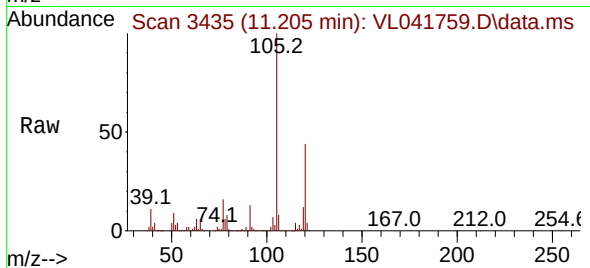
120 43.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 10.919 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:105 Resp: 256141

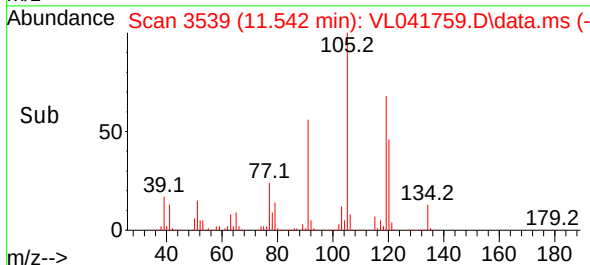
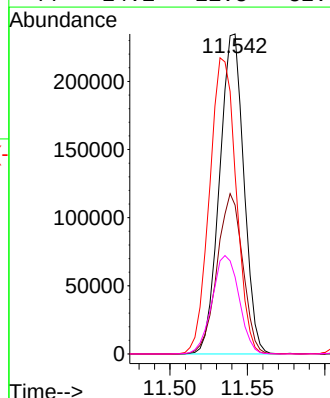
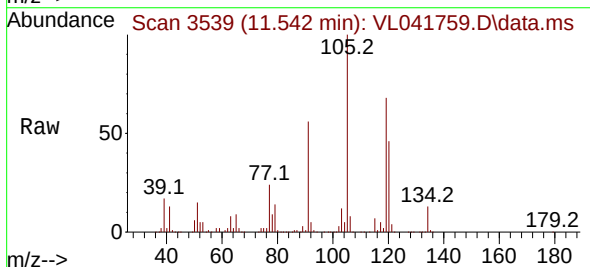
Ion Ratio Lower Upper

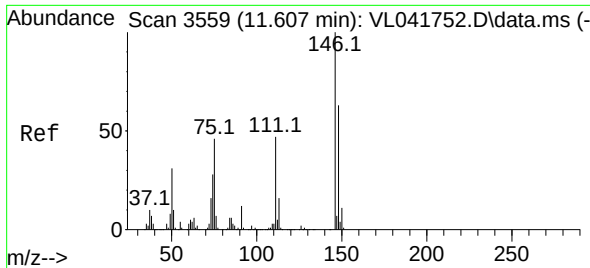
105 100

120 46.5 39.0 58.4

91 56.2 58.1 87.1#

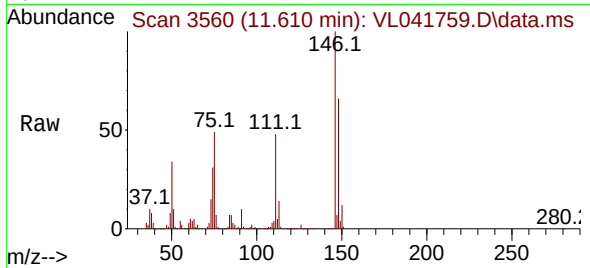
77 24.1 21.8 32.8





#75
1,3-Dichlorobenzene
Concen: 10.025 ppbv
RT: 11.610 min Scan# 3559
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

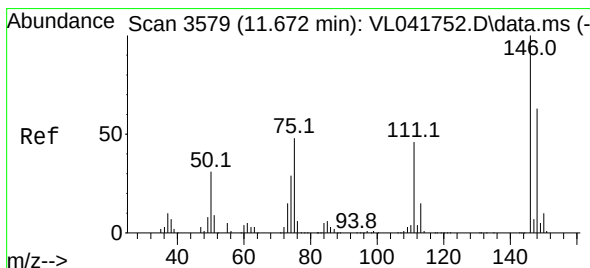
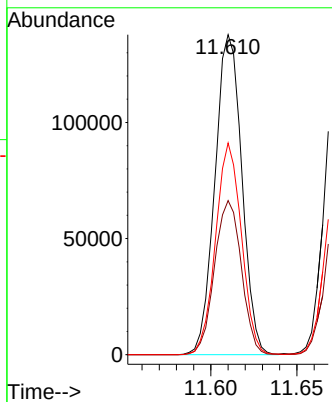
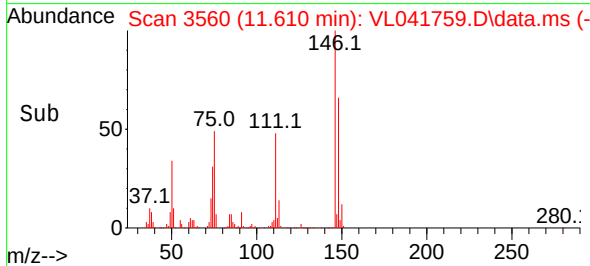
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



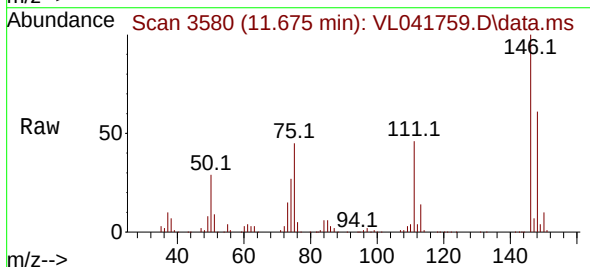
Tgt Ion:146 Resp: 14992
Ion Ratio Lower Upper
146 100
111 48.2 23.4 70.3
148 63.5 31.6 95.0

Manual Integrations
APPROVED

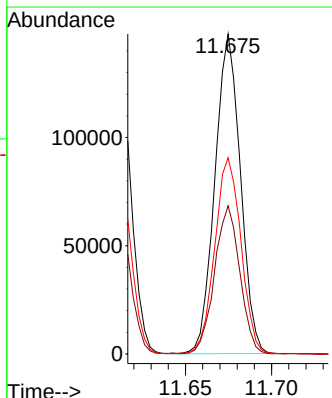
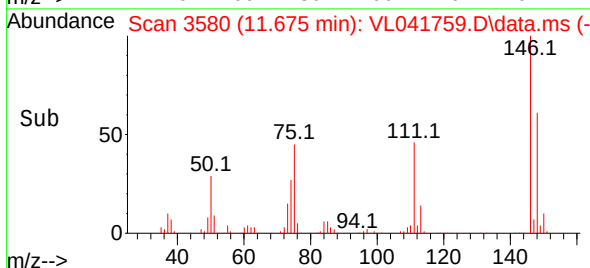
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

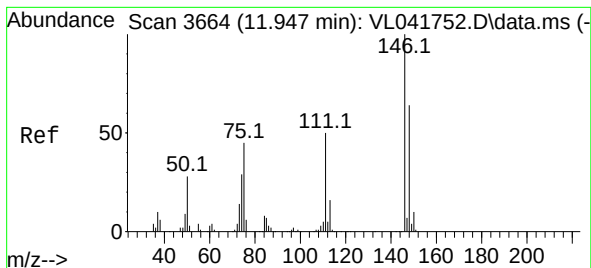


#76
1,4-Dichlorobenzene
Concen: 10.302 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



Tgt Ion:146 Resp: 152212
Ion Ratio Lower Upper
146 100
111 46.1 22.7 68.1
148 63.4 31.4 94.0





#77

1,2-Dichlorobenzene

Concen: 9.919 ppbv

RT: 11.950 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

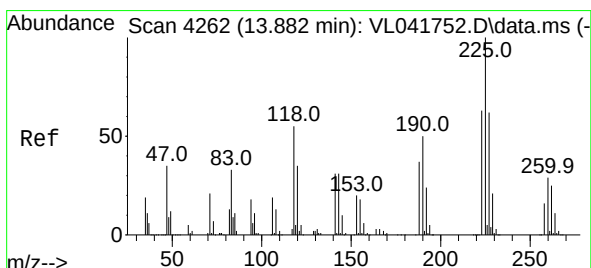
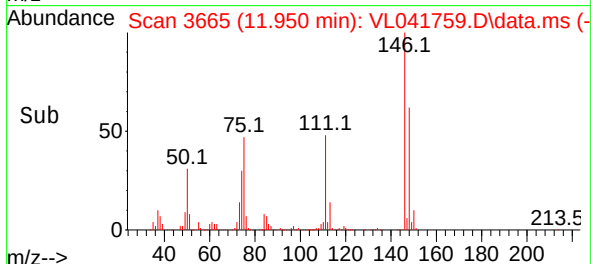
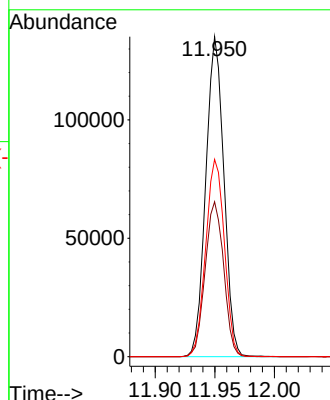
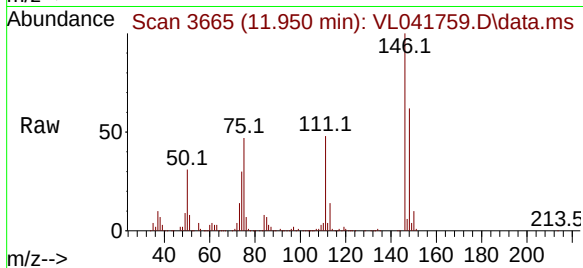
Tgt Ion:146 Resp: 142734

Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.8	74.3
148	63.7	31.8	95.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#78

Hexachloro-1,3-Butadiene

Concen: 8.873 ppbv

RT: 13.885 min Scan# 4263

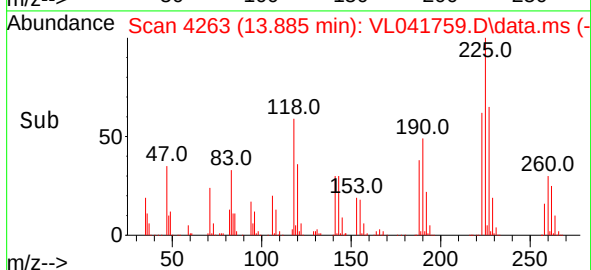
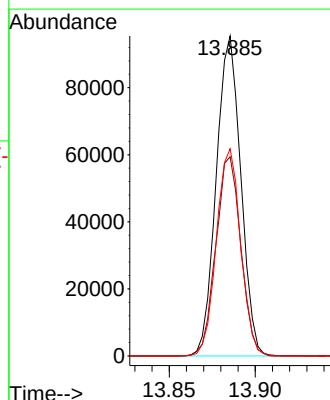
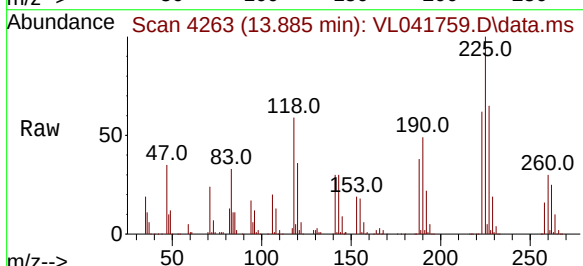
Delta R.T. 0.003 min

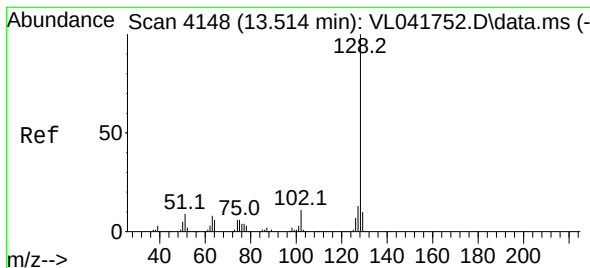
Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:225 Resp: 94671

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.5	75.7
227	63.8	50.3	75.5





#79

Naphthalene

Concen: 12.384 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion:128 Resp: 20241

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

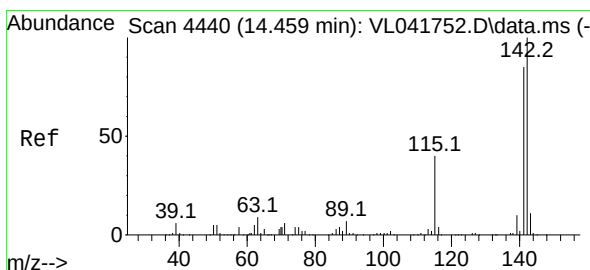
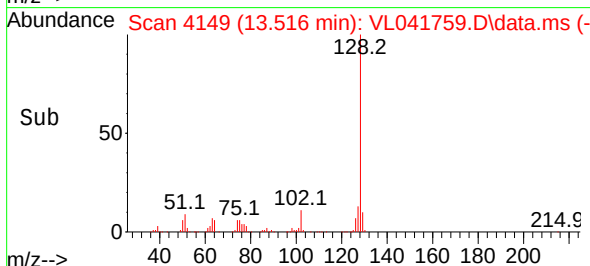
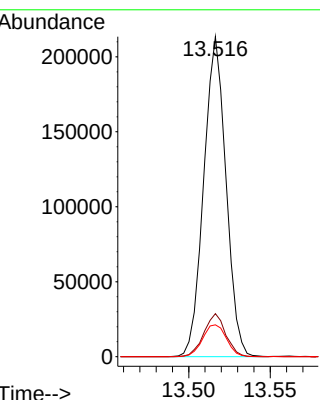
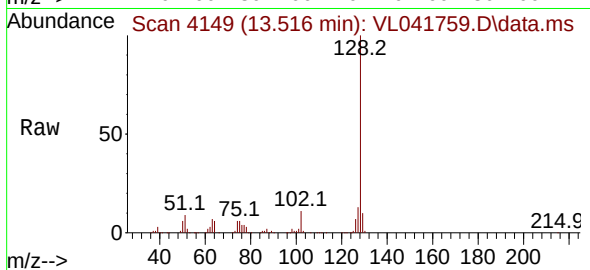
129 10.0 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#80

Naphthalene,2-methyl-

Concen: 20.261 ppbv

RT: 14.461 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

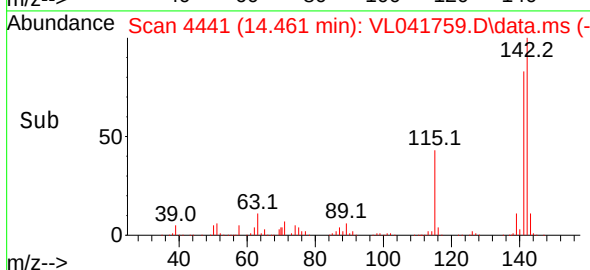
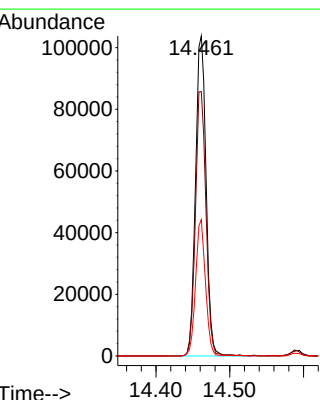
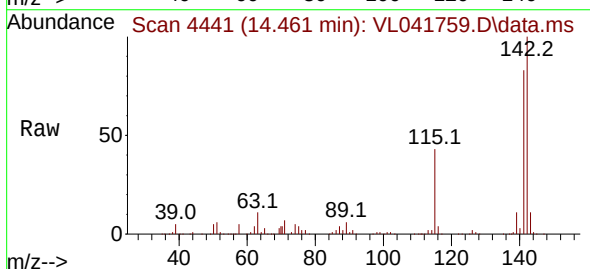
Tgt Ion:142 Resp: 102431

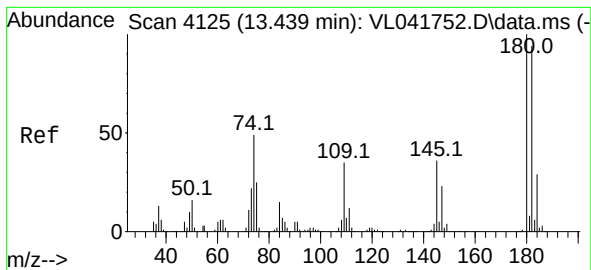
Ion Ratio Lower Upper

142 100

141 83.2 68.4 102.6

115 40.4 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 11.025 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041759.D

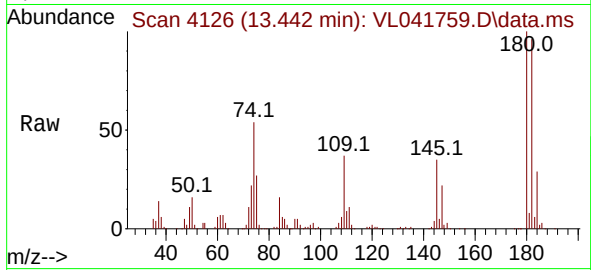
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624



Tgt Ion:180 Resp: 98468

Ion Ratio Lower Upper

180 100

182 95.3 77.0 115.6

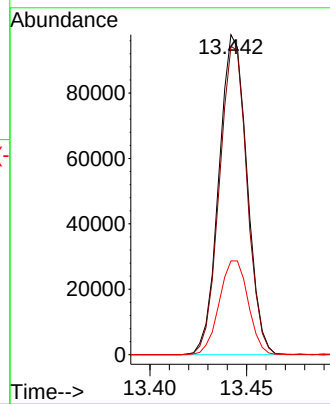
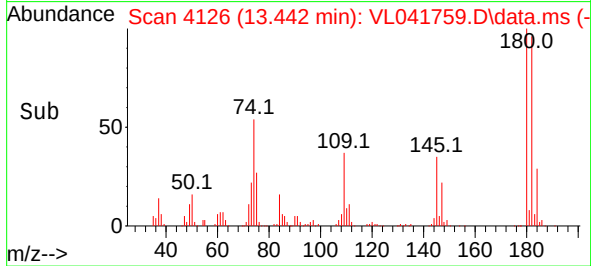
184 30.2 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	1.779	1.643	7.6	93	0.00
3	Chlorodifluoromethane	1.631	1.618	0.8	98	0.00
4	Chloromethane	0.696	0.668	4.0	100	0.00
5 T	Vinyl Chloride	0.701	0.630	10.1	96	0.00
6 T	Bromomethane	0.331	0.301	9.1	97	0.00
7	Chloroethane	0.272	0.267	1.8	100	0.00
8 T	Dichlorotetrafluoroethane	1.593	1.537	3.5	100	0.00
9 T	Propene	0.707	0.642	9.2	96	0.00
10 T	Heptane	1.816	1.782	1.9	99	0.00
11 T	Trichlorofluoromethane	1.890	1.782	5.7	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.437	1.358	5.5	96	0.00
13	Ethanol	0.059	0.042#	28.8	111	0.00
14 T	Bromoethene	0.485	0.485	0.0	97	0.00
15 T	Acetone	1.946	1.460	25.0	95	0.00
16 T	1,3-Butadiene	0.766	0.694	9.4	96	0.00
17	tert-Butyl alcohol	1.930	1.878	2.7	97	0.00
18 T	1,1-Dichloroethene	0.603	0.577	4.3	97	0.00
19 T	Isopropyl Alcohol	1.167	0.886	24.1	98	0.00
20 T	Methylene Chloride	0.555	0.497	10.5	99	0.00
21 T	Allyl Chloride	1.055	1.040	1.4	97	0.00
22 T	trans-1,2-Dichloroethene	0.690	0.656	4.9	97	0.00
23 T	Vinyl Acetate	0.903	0.797	11.7	96	0.00
24 T	1,1-Dichloroethane	1.396	1.339	4.1	97	0.00
25 T	Ethyl Acetate	3.620	3.607	0.4	100	0.00
26 T	Hexane	1.374	1.339	2.5	97	0.00
27 T	Carbon Disulfide	1.238	1.318	-6.5	93	0.00
28 T	Methyl tert-Butyl Ether	1.114	0.957	14.1	83	0.00
29 T	Chloroform	2.093	2.071	1.1	100	0.00
30 T	Cyclohexane	1.169	1.158	0.9	100	0.00
31 T	cis-1,2-Dichloroethene	1.419	1.410	0.6	100	0.00
32 T	1,1,1-Trichloroethane	2.128	2.124	0.2	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34 T	2-Butanone	0.805	0.768	4.6	99	0.00
35 T	Carbon Tetrachloride	0.710	0.794	-11.8	100	0.00
36 T	Benzene	1.034	1.012	2.1	99	0.00
37 T	1,2-Dichloroethane	0.644	0.642	0.3	100	0.00
38 T	Trichloroethene	0.439	0.402	8.4	98	0.00
39 T	1,2-Dichloropropane	0.374	0.365	2.4	98	0.00
40 T	1,4-Dioxane	0.183	0.177	3.3	101	0.00
41 T	Tetrahydrofuran	0.451	0.444	1.6	99	0.00
42 T	Bromodichloromethane	0.740	0.801	-8.2	98	0.00
43	Methyl Methacrylate	0.394	0.403	-2.3	97	0.00
44 T	2,2,4-Trimethylpentane	1.767	1.731	2.0	98	0.00
45 T	t-1,3-Dichloropropene	0.408	0.445	-9.1	100	0.00
46 T	cis-1,3-Dichloropropene	0.518	0.549	-6.0	98	0.00
47 T	1,1,2-Trichloroethane	0.391	0.379	3.1	98	0.00
48 T	Dibromochloromethane	0.534	0.604	-13.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	0.437	0.510	-16.7	97	0.00
50 T	4-Methyl-2-Pentanone	1.095	1.093	0.2	98	0.00
51 T	2-Hexanone	0.888	0.893	-0.6	99	0.00
52 T	Tetrachloroethene	0.385	0.360	6.5	100	0.00
53 T	Toluene	1.173	1.146	2.3	97	0.00
54 T	1,2-Dibromoethane	0.538	0.536	0.4	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.530	0.560	-5.7	99	0.00
57 T	Chlorobenzene	1.023	1.012	1.1	100	0.00
58 T	Ethyl Benzene	1.800	1.856	-3.1	98	0.00
59 T	m/p-Xylene	1.448	1.496	-3.3	99	0.00
60 T	o-Xylene	1.452	1.496	-3.0	99	0.00
61 T	Styrene	0.628	0.696	-10.8	97	0.00
62	Isopropylbenzene	2.181	2.274	-4.3	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.909	0.896	1.4	100	0.00
64	n-propylbenzene	0.551	0.573	-4.0	101	0.00
65	tert-Butylbenzene	1.968	2.006	-1.9	100	0.00
66 T	Benzyl Chloride	0.173	0.192	-11.0	95	0.00
67	sec-Butylbenzene	2.723	2.806	-3.0	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.833	0.847	-1.7	94	0.00
69	p-Isopropyltoluene	2.244	2.383	-6.2	101	0.00
70	n-Butylbenzene	2.168	2.326	-7.3	99	0.00
71	2-Chlorotoluene	1.665	1.721	-3.4	100	0.00
72 T	4-Ethyltoluene	1.713	1.829	-6.8	99	0.00
73 T	1,3,5-Trimethylbenzene	1.422	1.550	-9.0	99	0.00
74 T	1,2,4-Trimethylbenzene	1.529	1.669	-9.2	100	0.00
75 T	1,3-Dichlorobenzene	0.975	0.977	-0.2	99	0.00
76 T	1,4-Dichlorobenzene	0.963	0.992	-3.0	100	0.00
77 T	1,2-Dichlorobenzene	0.938	0.930	0.9	101	0.00
78 T	Hexachloro-1,3-Butadiene	0.695	0.617	11.2	99	0.00
79 T	Naphthalene	1.065	1.319	-23.8	98	0.00
80 T	Naphthalene,2-methyl-	0.329	0.668	-103.0#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.582	0.642	-10.3	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: P5293 SAS No.: P5293 SDG No.: P5293

Instrument ID: MSVOA_L Calibration Date/Time: 12/18/2024 10:29

Lab File ID: VL041788.D Init. Calib. Date(s): 12/16/2024 12/16/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 13:30 16:41

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.779	1.484		-16.58	30
Chloromethane	0.696	0.637		-8.48	30
Vinyl Chloride	0.701	0.613		-12.55	30
Bromomethane	0.331	0.292		-11.78	30
Chloroethane	0.272	0.253		-6.99	30
Tetrahydrofuran	0.451	0.377		-16.41	30
Trichlorofluoromethane	1.890	1.767		-6.51	30
1,1,2-Trichlorotrifluoroethane	1.438	1.269		-11.75	30
Dichlorotetrafluoroethane	1.593	1.468		-7.85	30
tert-Butyl alcohol	1.930	1.782		-7.67	30
Heptane	1.816	1.468		-19.16	30
1,1-Dichloroethene	0.603	0.542		-10.12	30
Acetone	1.946	1.464		-24.77	30
Carbon Disulfide	1.238	1.122		-9.37	30
Methyl tert-Butyl Ether	1.114	0.894		-19.75	30
Methylene Chloride	0.555	0.469		-15.49	30
trans-1,2-Dichloroethene	0.690	0.596		-13.62	30
1,1-Dichloroethane	1.396	1.260		-9.74	30
Cyclohexane	1.169	0.978		-16.34	30
2-Butanone	0.805	0.703		-12.67	30
Carbon Tetrachloride	0.710	0.745		4.93	30
cis-1,2-Dichloroethene	1.419	1.216		-14.31	30
Chloroform	2.093	1.914		-8.55	30
1,1,1-Trichloroethane	2.128	1.894		-11	30
2,2,4-Trimethylpentane	1.767	1.524		-13.75	30
Benzene	1.034	0.898		-13.15	30
1,2-Dichloroethane	0.644	0.612		-4.97	30
Trichloroethene	0.439	0.354		-19.36	30
1,2-Dichloropropane	0.374	0.323		-13.64	30
Bromodichloromethane	0.740	0.710		-4.05	30
4-Methyl-2-Pentanone	1.095	0.942		-13.97	30
Toluene	1.173	0.984		-16.11	30
t-1,3-Dichloropropene	0.408	0.351		-13.97	30
cis-1,3-Dichloropropene	0.518	0.450		-13.13	30
1,1,2-Trichloroethane	0.391	0.341		-12.79	30
Dibromochloromethane	0.534	0.514		-3.74	30
1,2-Dibromoethane	0.538	0.475		-11.71	30
Tetrachloroethene	0.385	0.301		-21.82	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: P5293 SAS No.: P5293 SDG No.: P5293

Instrument ID: MSVOA_L Calibration Date/Time: 12/18/2024 10:29

Lab File ID: VL041788.D Init. Calib. Date(s): 12/16/2024 12/16/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 13:30 16:41

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.023	0.912		-10.85	30
Ethyl Benzene	1.800	1.634		-9.22	30
m/p-Xylene	1.448	1.355		-6.42	30
o-Xylene	1.452	1.348		-7.16	30
Styrene	0.628	0.599		-4.62	30
Bromoform	0.437	0.422		-3.43	30
1,1,2,2-Tetrachloroethane	0.909	0.837		-7.92	30
2-Chlorotoluene	1.665	1.538		-7.63	30
1,3,5-Trimethylbenzene	1.422	1.410		-0.84	30
1,2,4-Trimethylbenzene	1.529	1.529		0	30
1,3-Dichlorobenzene	0.975	0.899		-7.8	30
1,4-Dichlorobenzene	0.963	0.895		-7.06	30
1,2-Dichlorobenzene	0.938	0.844		-10.02	30
1,2,4-Trichlorobenzene	0.582	0.544		-6.53	30
Hexachloro-1,3-Butadiene	0.695	0.543		-21.87	30
1,3-Butadiene	0.766	0.701		-8.49	30
Naphthalene	1.065	1.163		9.2	30
4-Ethyltoluene	1.713	1.658		-3.21	30
1-Bromo-4-Fluorobenzene	0.833	0.875		5.04	30
Hexane	1.374	1.152		-16.16	30
Allyl Chloride	1.055	0.979		-7.2	30
1,4-Dioxane	182.757	152.553		-16.53	30
Methyl Methacrylate	0.394	0.351		-10.91	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\VL121824\
 Data File : VL041788.D
 Acq On : 18 Dec 2024 10:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/19/2024
 Supervised By : Mahesh Dadoda 12/19/2024

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

Internal Standards						
1) Bromochloromethane	2.784	49	76040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	198370	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	172190	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 150705 10.503 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	112841	8.340	ppbv	96
3) Chlorodifluoromethane	1.473	51	112096	9.040	ppbv	98
4) Chloromethane	1.531	50	48418	9.146	ppbv	99
5) Vinyl Chloride	1.580	62	46631	8.743	ppbv	99
6) Bromomethane	1.667	94	22202	8.821	ppbv	98
7) Chloroethane	1.703	64	19203	9.269	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	111653	9.220	ppbv	96
9) Propene	1.483	41	41427	7.708	ppbv	96
10) Heptane	4.975	43	111650	8.087	ppbv	96
11) Trichlorofluoromethane	1.874	101	134331	9.347	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	96469	8.825	ppbv	98
13) Ethanol	1.719	45	3276m	7.361	ppbv	
14) Bromoethene	1.780	108	33118	8.974	ppbv	97
15) Acetone	1.832	43	111294	7.522	ppbv	99
16) 1,3-Butadiene	1.606	39	53299	9.149	ppbv	97
17) tert-Butyl alcohol	2.036	59	135516	9.233	ppbv	100
18) 1,1-Dichloroethene	2.033	96	41224	8.996	ppbv	93
19) Isopropyl Alcohol	1.884	45	64831	7.303	ppbv	99
20) Methylene Chloride	2.059	84	35699	8.462	ppbv	96
21) Allyl Chloride	2.094	41	74468	9.281	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	45331	8.641	ppbv	94
23) Vinyl Acetate	2.460	43	52709	7.673	ppbv #	95
24) 1,1-Dichloroethane	2.405	63	95779	9.020	ppbv	99
25) Ethyl Acetate	2.832	43	238771	8.675	ppbv	100
26) Hexane	2.822	57	87593	8.386	ppbv	95
27) Carbon Disulfide	2.149	76	85318	9.064	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	67965	8.021	ppbv	97
29) Chloroform	2.845	83	145536	9.143	ppbv	97
30) Cyclohexane	3.855	84	74346	8.366	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	92460	8.567	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	144038	8.902	ppbv	99
34) 2-Butanone	2.554	43	139509	8.742	ppbv	99
35) Carbon Tetrachloride	3.761	117	147726	10.490	ppbv	99
36) Benzene	3.654	78	178114	8.680	ppbv	98
37) 1,2-Dichloroethane	3.214	62	121412	9.509	ppbv	100
38) Trichloroethene	4.548	130	70175	8.057	ppbv	98
39) 1,2-Dichloropropane	4.308	63	64154	8.645	ppbv	97
40) 1,4-Dioxane	4.583	88	30262	8.347	ppbv #	96
41) Tetrahydrofuran	3.052	42	74734	8.359	ppbv	98
42) Bromodichloromethane	4.486	83	140832	9.588	ppbv	95
43) Methyl Methacrylate	4.878	69	69545	8.895	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	302332	8.627	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	69601	8.607	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041788.D
 Acq On : 18 Dec 2024 10:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/19/2024
 Supervised By : Mahesh Dadoda 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	89328m	8.701	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	67717	8.736	ppbv	93
48) Dibromochloromethane	7.386	129	101875	9.625	ppbv	97
49) Bromoform	9.483	173	83649	9.655	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	186865	8.600	ppbv	99
51) 2-Hexanone	7.438	43	149217	8.472	ppbv #	98
52) Tetrachloroethene	8.224	164	59756	7.824	ppbv	93
53) Toluene	6.930	91	195158	8.389	ppbv	99
54) 1,2-Dibromoethane	7.648	107	94138	8.814	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	87869	9.626	ppbv	99
57) Chlorobenzene	8.920	112	157039	8.912	ppbv	97
58) Ethyl Benzene	9.354	91	281290	9.074	ppbv	97
59) m/p-Xylene	9.548	91	466737m	18.725	ppbv	
60) o-Xylene	9.963	91	232028	9.283	ppbv	100
61) Styrene	9.869	104	103216	9.550	ppbv	99
62) Isopropylbenzene	10.539	105	352903	9.397	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	144197	9.216	ppbv	99
64) n-propylbenzene	10.989	120	90043	9.483	ppbv	99
65) tert-Butylbenzene	11.532	119	314940	9.295	ppbv	98
66) Benzyl Chloride	11.616	91	22164	7.426	ppbv	100
67) sec-Butylbenzene	11.769	105	442201	9.431	ppbv	100
69) p-Isopropyltoluene	11.927	119	369746	9.569	ppbv	99
70) n-Butylbenzene	12.283	91	373294	9.999	ppbv	99
71) 2-Chlorotoluene	10.901	91	264866	9.240	ppbv	100
72) 4-Ethyltoluene	11.124	105	285469	9.676	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	242783	9.918	ppbv	97
74) 1,2,4-Trimethylbenzene	11.536	105	263301	10.003	ppbv	90
75) 1,3-Dichlorobenzene	11.607	146	154857	9.227	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	154115	9.296	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	145375	9.002	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	93437	7.804	ppbv	100
79) Naphthalene	13.513	128	200311	10.921	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	94903	16.728	ppbv	97
81) 1,2,4-Trichlorobenzene	13.442	180	93675	9.346	ppbv	99

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

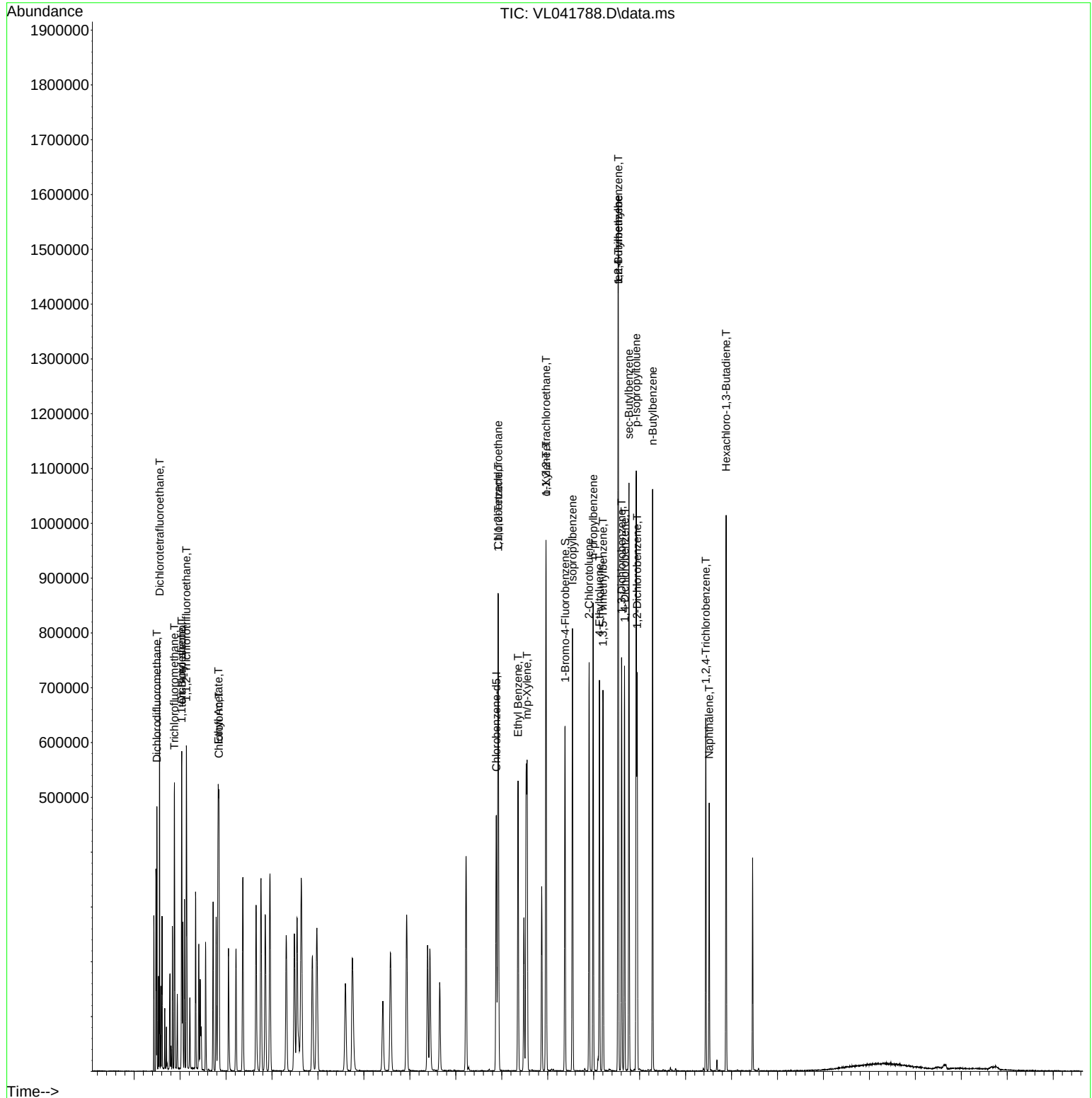
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Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

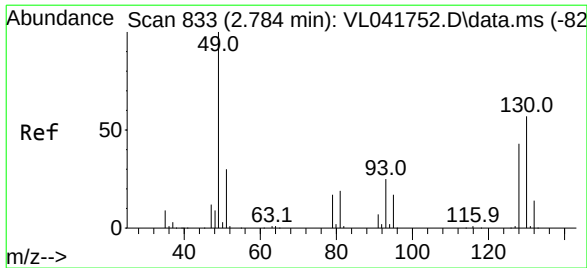
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
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Response via : Initial Calibration





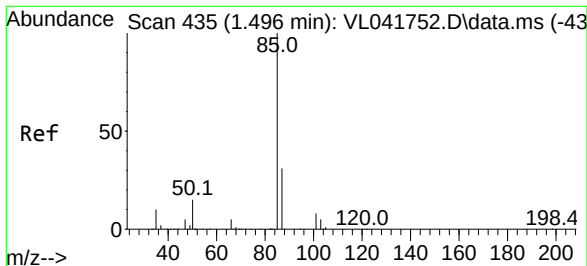
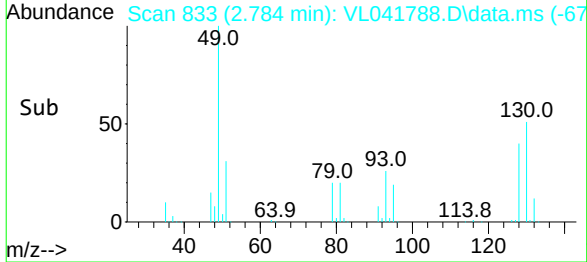
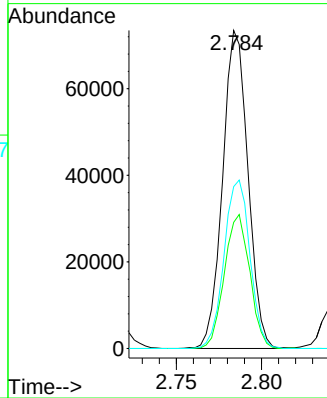
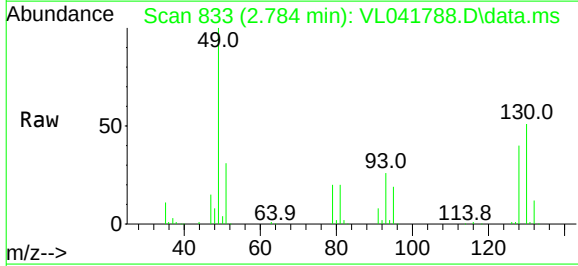
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 76040
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.6
130 54.2 28.3 85.0

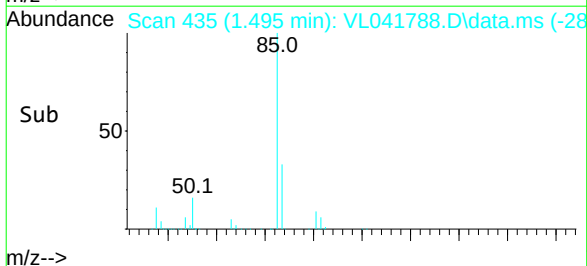
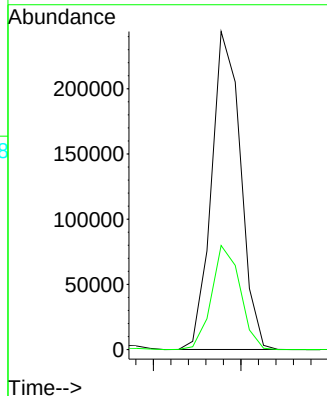
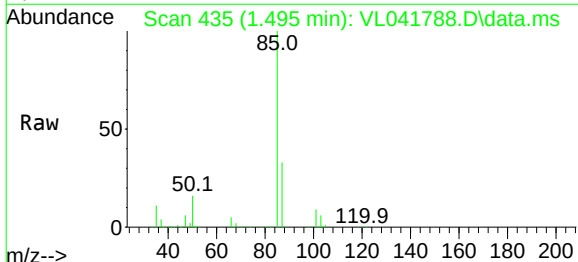
Manual Integrations
APPROVED

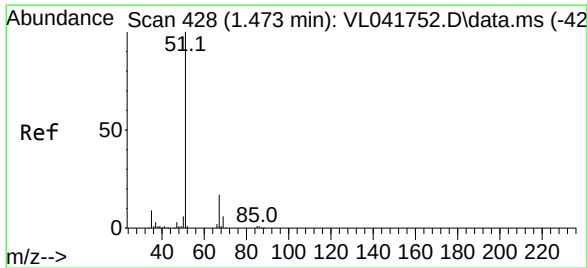
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 8.340 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

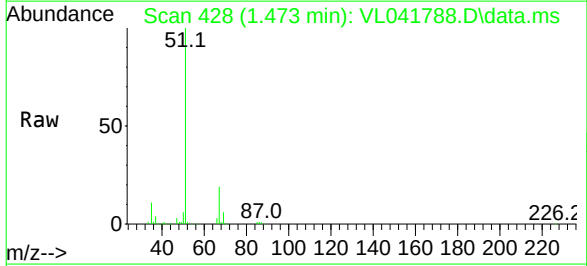
Tgt Ion: 85 Resp: 112841
Ion Ratio Lower Upper
85 100
87 32.7 24.5 36.7





#3
Chlorodifluoromethane
Concen: 9.040 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

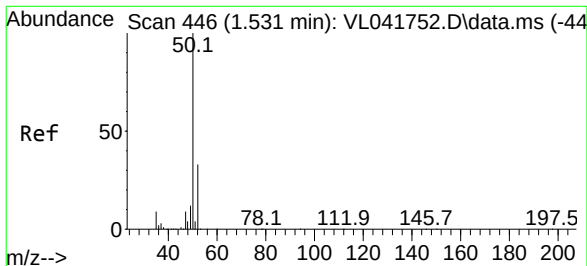
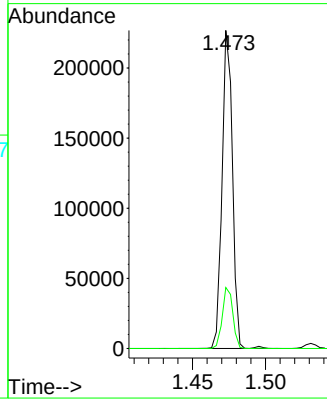
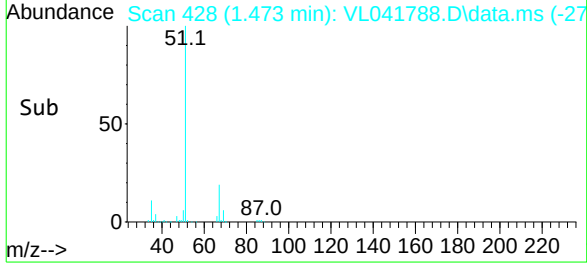
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



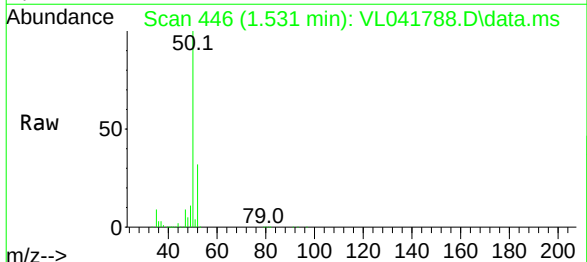
Tgt Ion: 51 Resp: 112096
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.4

Manual Integrations
APPROVED

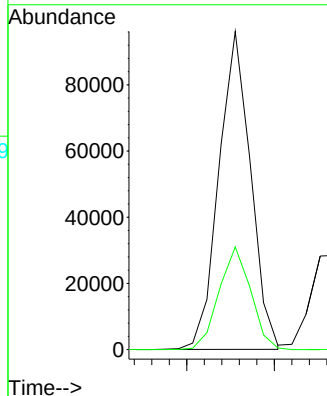
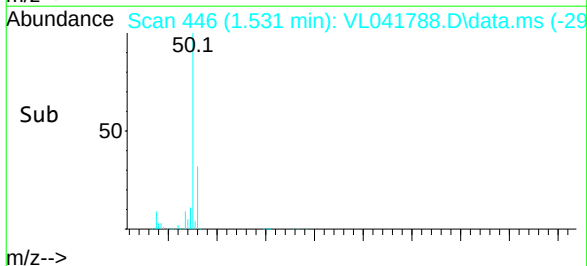
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

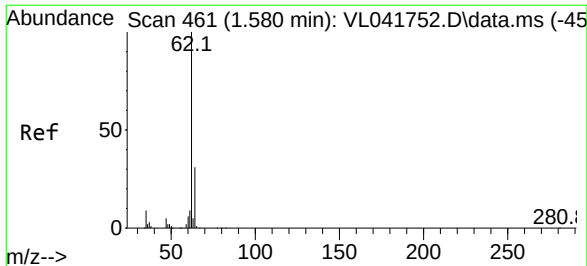


#4
Chloromethane
Concen: 9.146 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



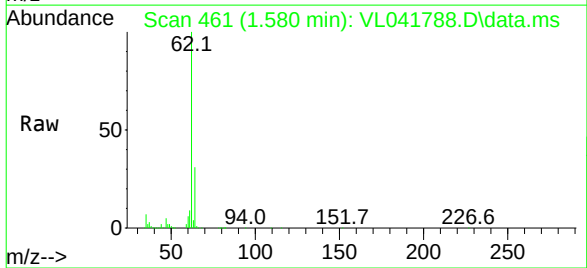
Tgt Ion: 50 Resp: 48418
Ion Ratio Lower Upper
50 100
52 32.3 26.2 39.2





#5
 Vinyl Chloride
 Concen: 8.743 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

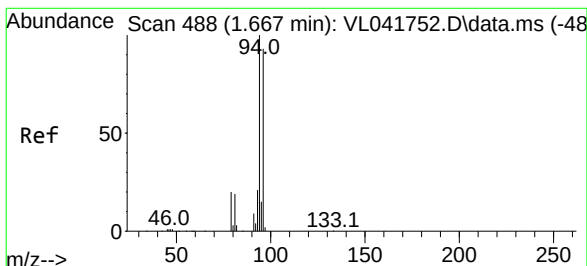
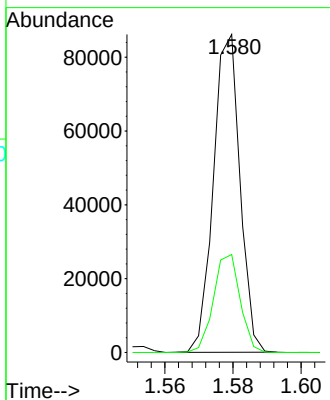
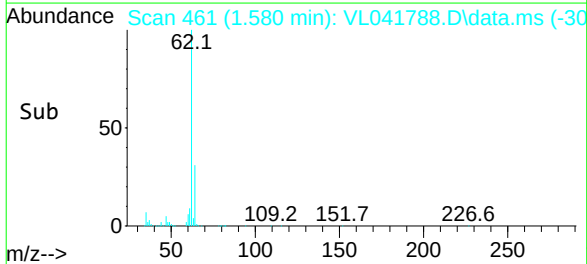
Instrument : MSVOA_1
 ClientSampleId : VSTDCCC010



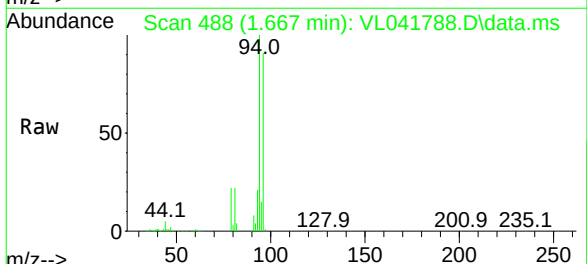
Tgt Ion: 62 Resp: 46631
 Ion Ratio Lower Upper
 62 100
 64 30.8 25.1 37.7

Manual Integrations
 APPROVED

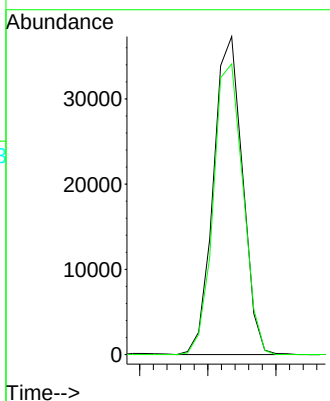
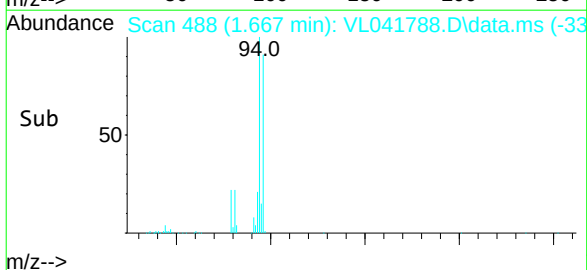
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

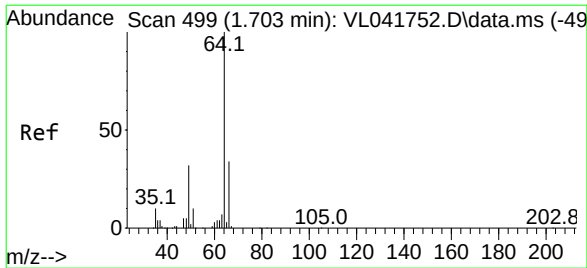


#6
 Bromomethane
 Concen: 8.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29



Tgt Ion: 94 Resp: 22202
 Ion Ratio Lower Upper
 94 100
 96 91.4 74.7 112.1





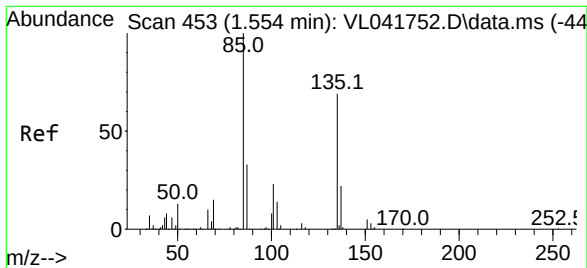
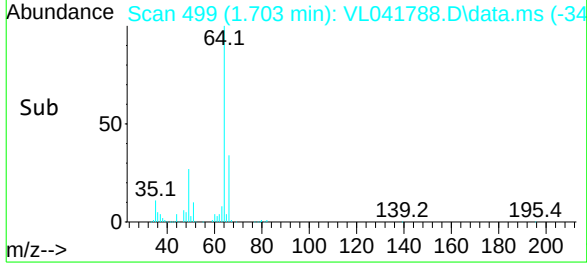
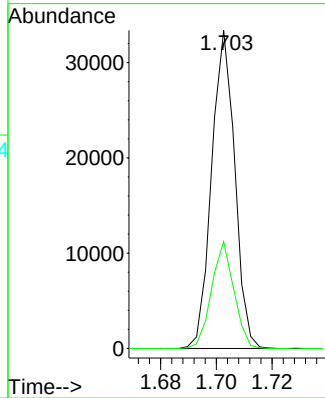
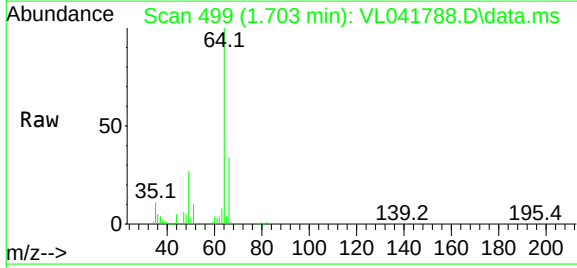
#7
Chloroethane
Concen: 9.269 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion: 64 Resp: 19203
Ion Ratio Lower Upper
64 100
66 33.6 27.5 41.3

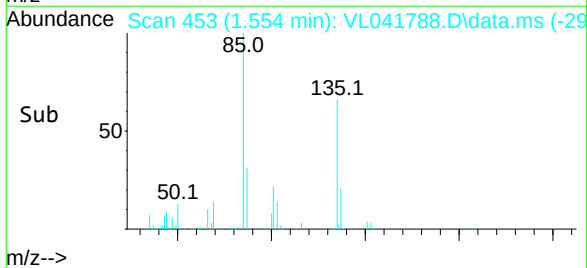
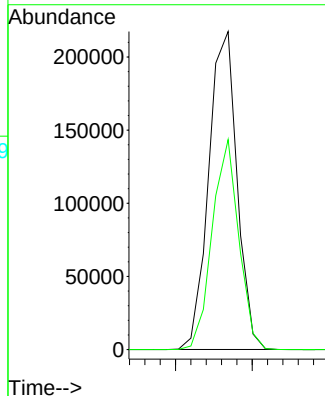
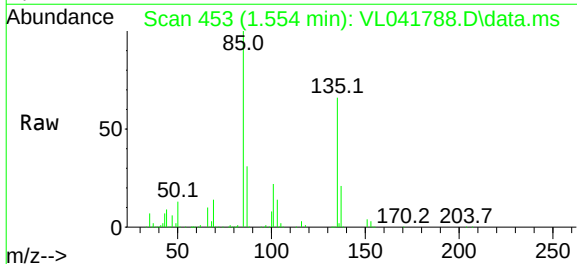
Manual Integrations
APPROVED

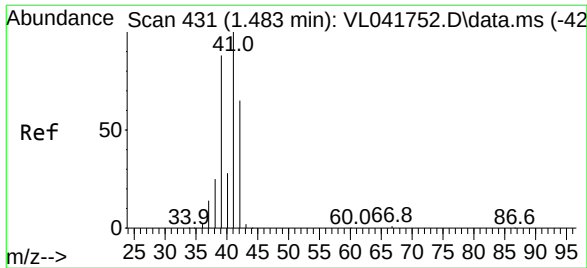
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#8
Dichlorotetrafluoroethane
Concen: 9.220 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

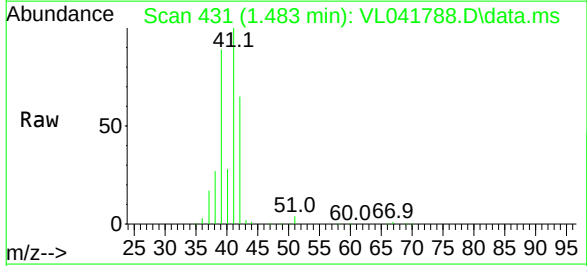
Tgt Ion: 85 Resp: 111653
Ion Ratio Lower Upper
85 100
135 62.0 51.9 77.9





#9
Propene
Concen: 7.708 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

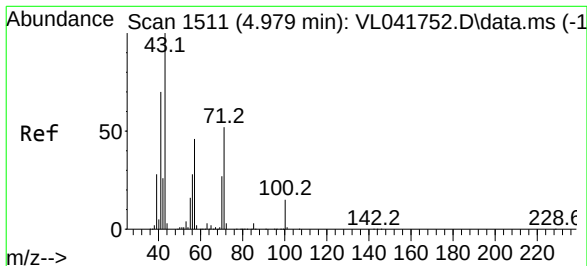
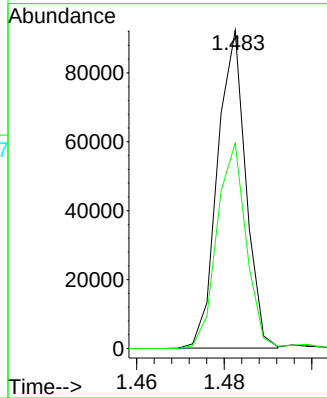
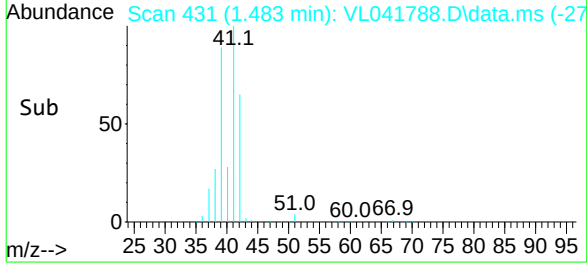
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



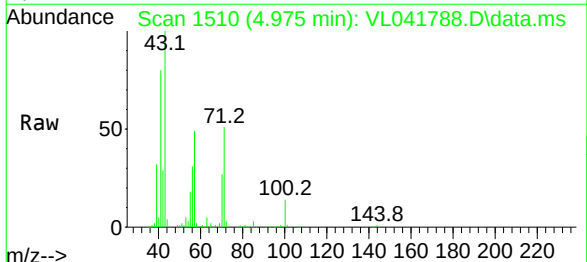
Tgt Ion: 41 Resp: 41427
Ion Ratio Lower Upper
41 100
42 68.5 52.4 78.6

Manual Integrations APPROVED

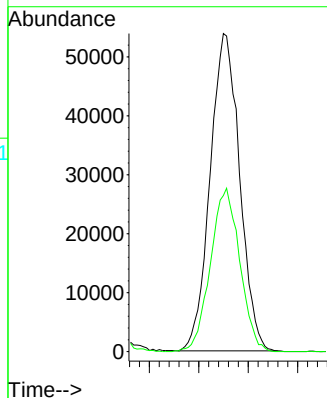
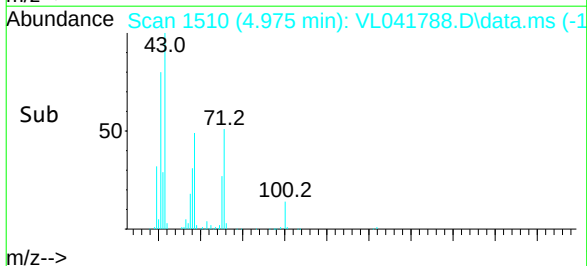
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

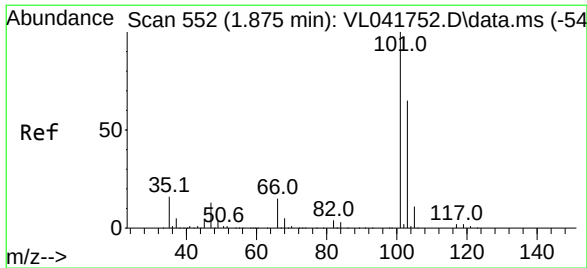


#10
Heptane
Concen: 8.087 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.004 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



Tgt Ion: 43 Resp: 111650
Ion Ratio Lower Upper
43 100
57 51.1 38.5 57.7





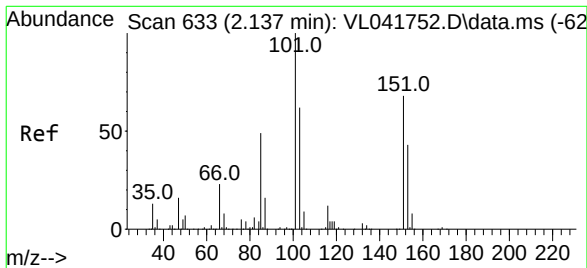
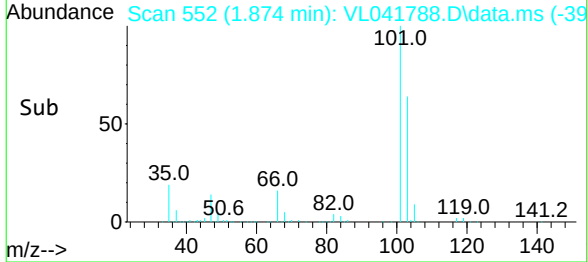
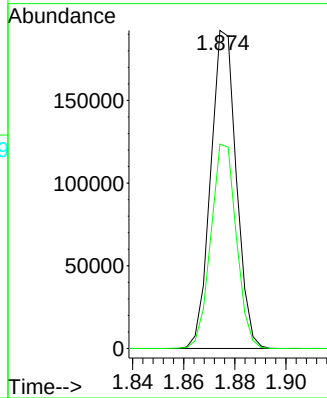
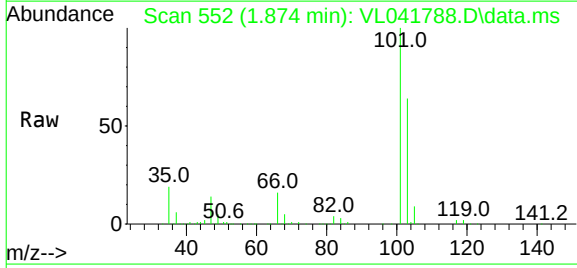
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Trichlorofluoromethane
Concen: 9.347 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 134331
Ion Ratio Lower Upper
101 100
103 64.3 51.8 77.8

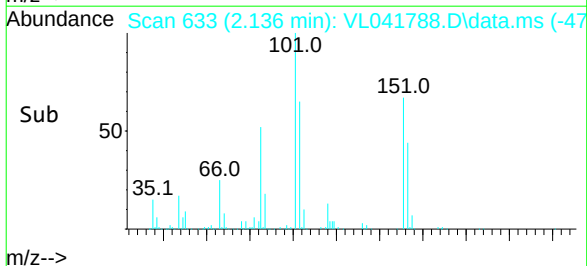
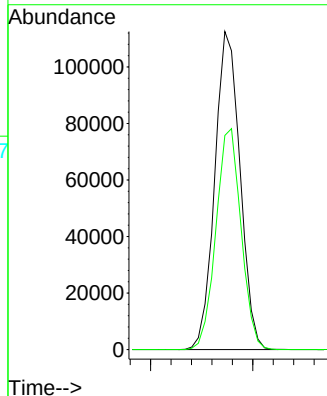
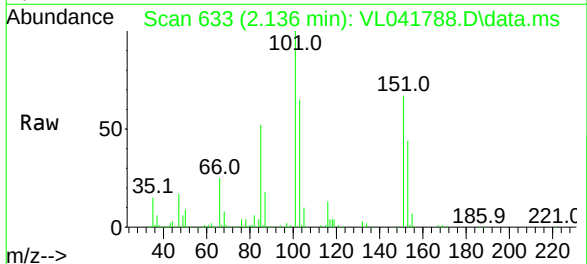
Manual Integrations
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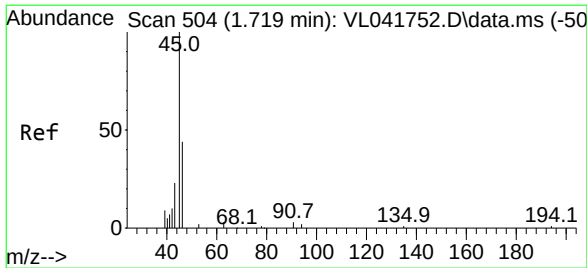
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.825 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

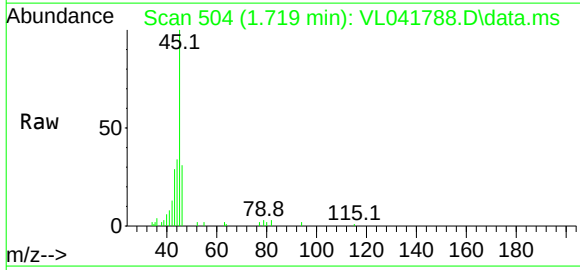
Tgt Ion:101 Resp: 96469
Ion Ratio Lower Upper
101 100
151 69.2 56.8 85.2





#13
Ethanol
Concen: 7.361 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

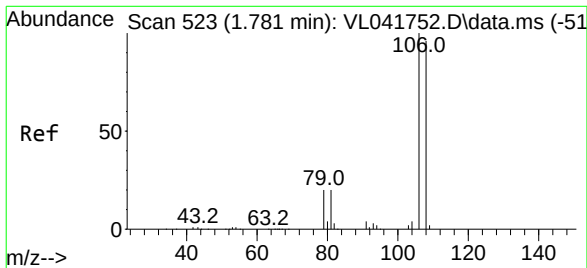
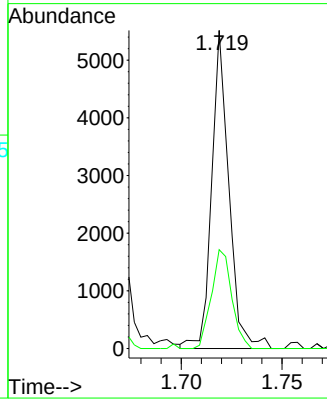
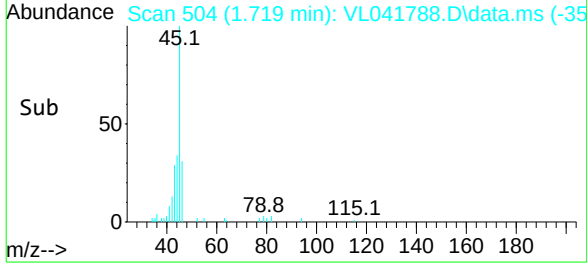
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 45 Resp: 3276
Ion Ratio Lower Upper
45 100
46 37.1 16.4 65.8

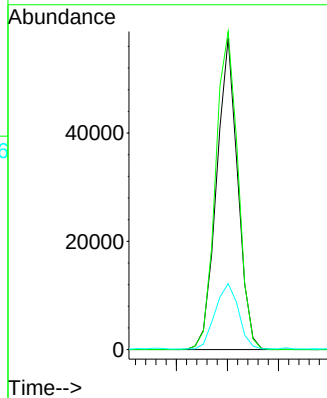
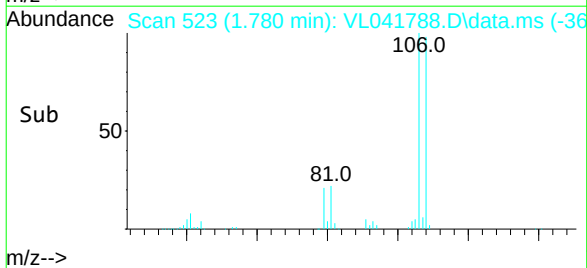
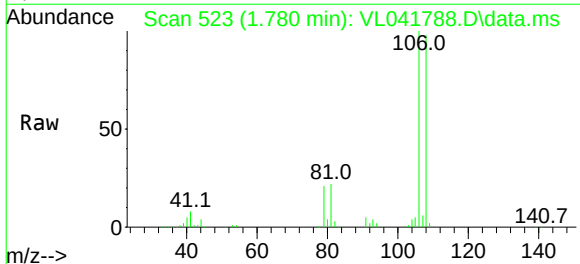
Manual Integrations
APPROVED

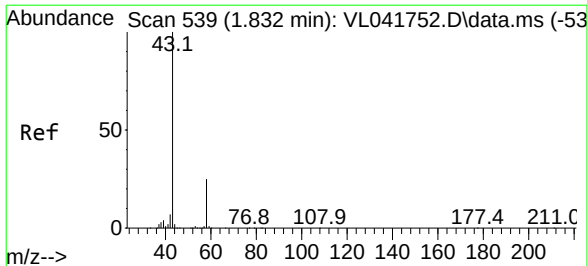
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#14
Bromoethene
Concen: 8.974 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

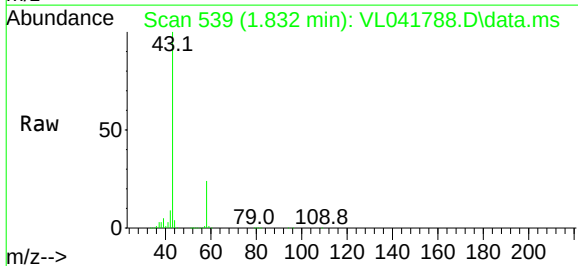
Tgt Ion:108 Resp: 33118
Ion Ratio Lower Upper
108 100
106 107.8 84.1 126.1
79 24.4 17.4 26.0





#15
Acetone
Concen: 7.522 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

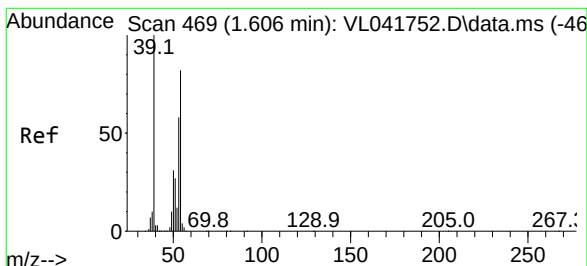
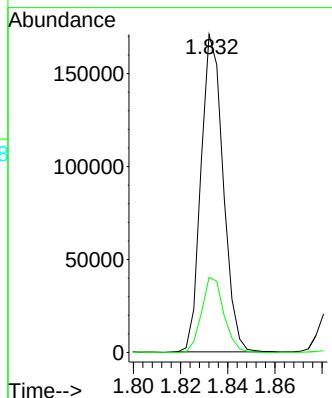
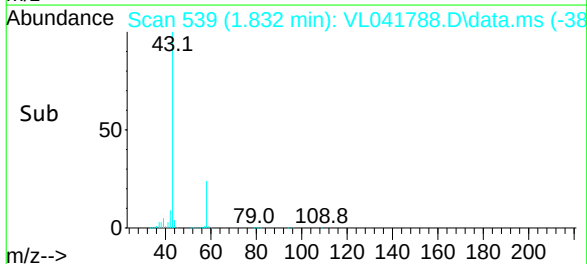
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 43 Resp: 111294
Ion Ratio Lower Upper
43 100
58 24.0 19.7 29.5

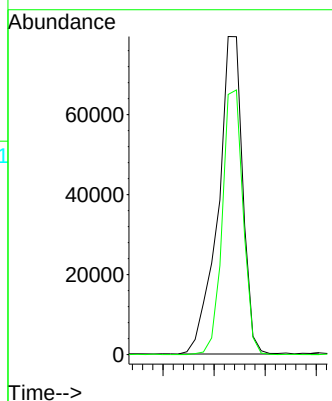
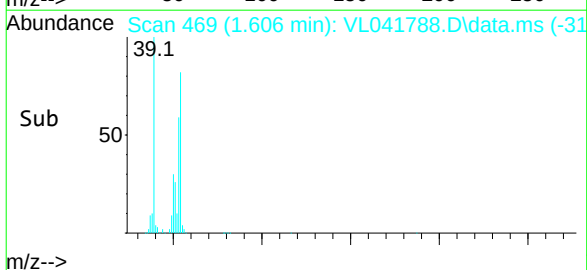
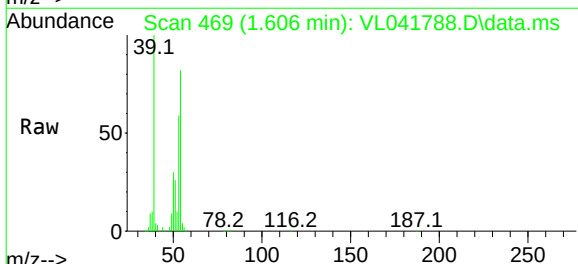
Manual Integrations
APPROVED

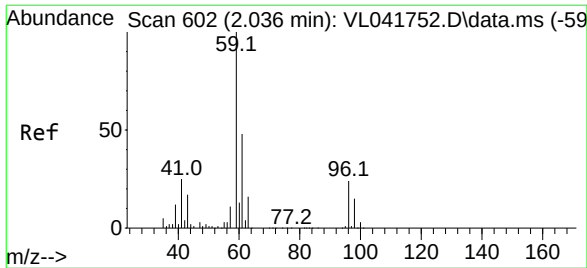
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#16
1,3-Butadiene
Concen: 9.149 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 39 Resp: 53299
Ion Ratio Lower Upper
39 100
54 70.3 58.4 87.6





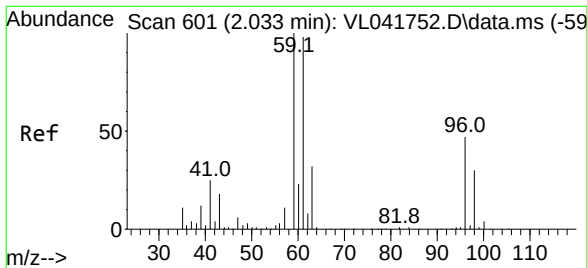
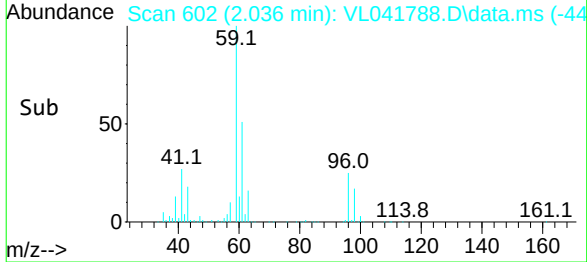
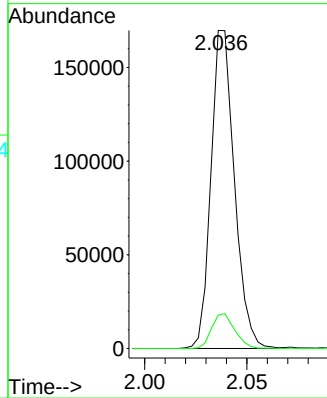
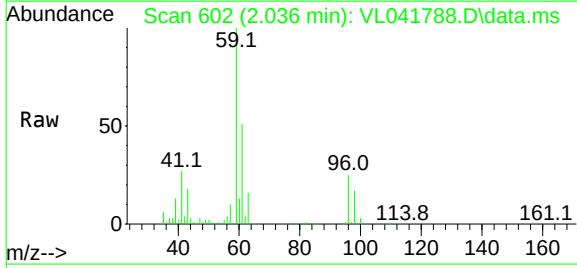
#17
tert-Butyl alcohol
Concen: 9.233 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 135516
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0

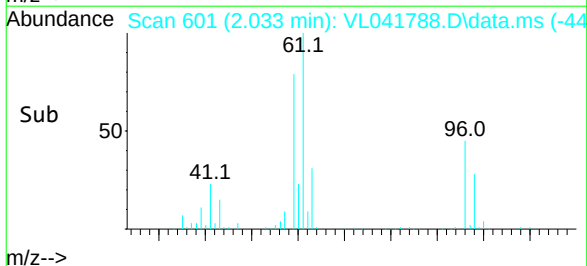
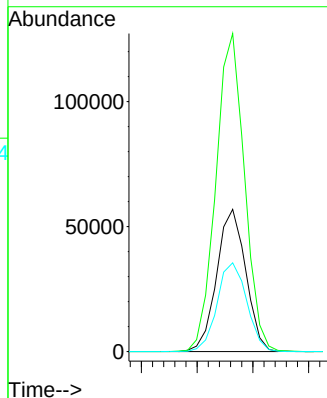
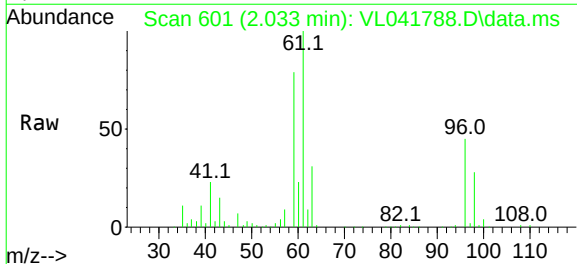
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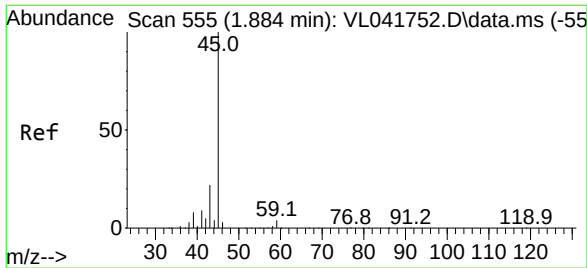
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#18
1,1-Dichloroethene
Concen: 8.996 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 96 Resp: 41224
Ion Ratio Lower Upper
96 100
61 223.2 167.7 251.5
98 62.3 51.1 76.7





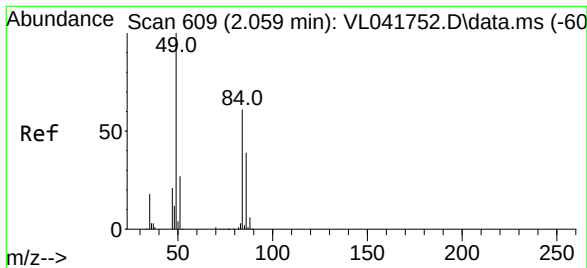
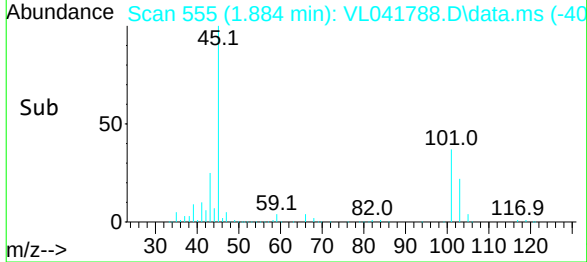
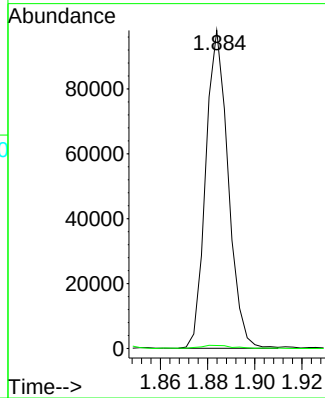
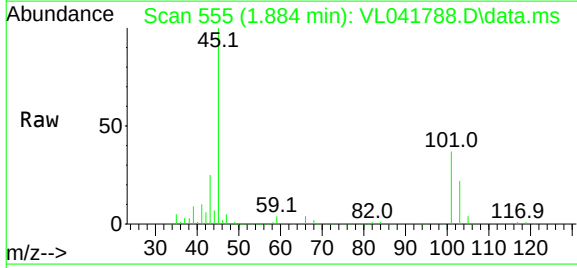
#19
Isopropyl Alcohol
Concen: 7.303 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 64831
Ion Ratio Lower Upper
45 100
58 41.3 33.3 49.9

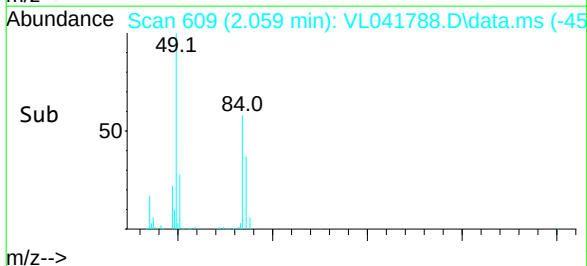
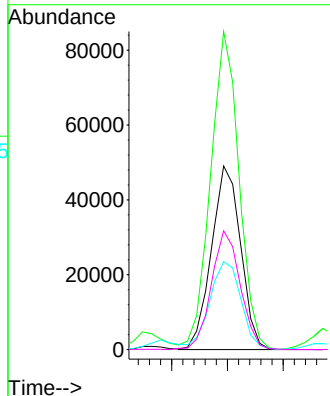
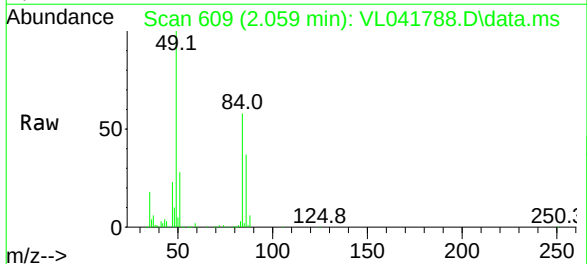
Manual Integrations
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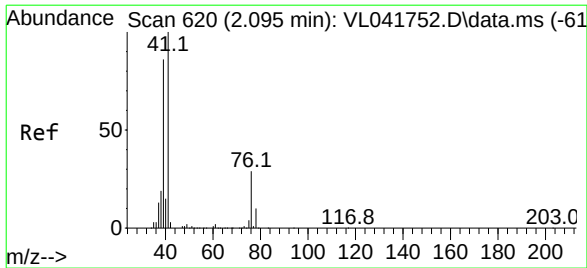
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#20
Methylene Chloride
Concen: 8.462 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 84 Resp: 35699
Ion Ratio Lower Upper
84 100
49 173.2 132.6 198.8
51 47.7 37.6 56.4
86 64.4 51.4 77.0





#21

Allyl Chloride

Concen: 9.281 ppbv

RT: 2.094 min Scan# 620

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

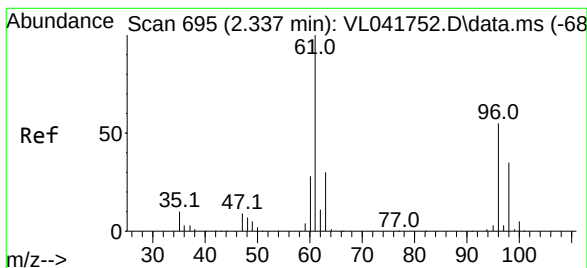
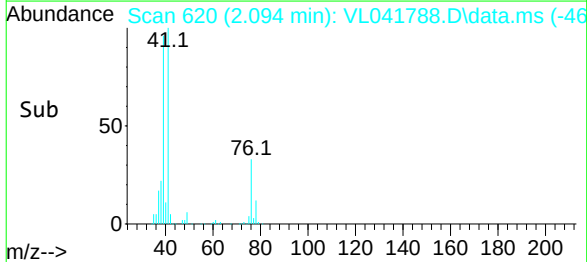
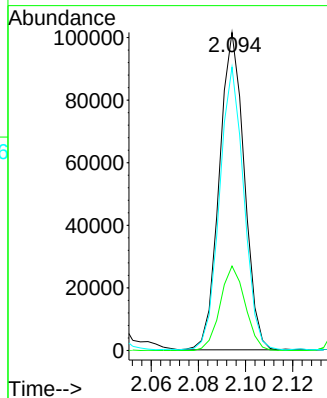
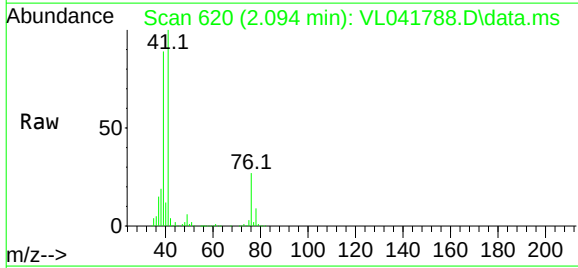
VSTDCCC010

Tgt Ion:	41	Resp:	74468
Ion	Ratio	Lower	Upper
41	100		
76	26.7	22.3	33.5
39	86.9	69.2	103.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#22

trans-1,2-Dichloroethene

Concen: 8.641 ppbv

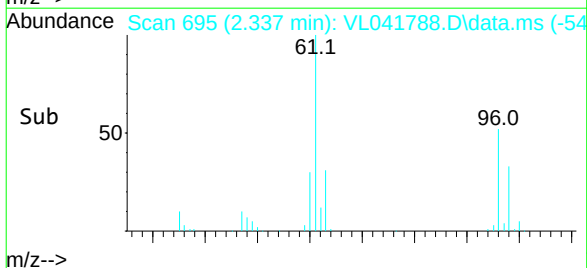
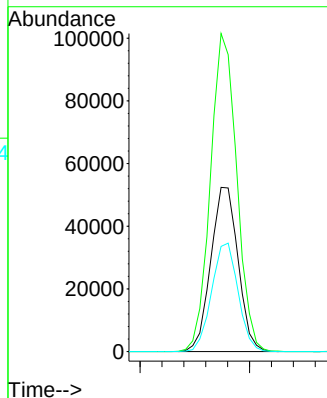
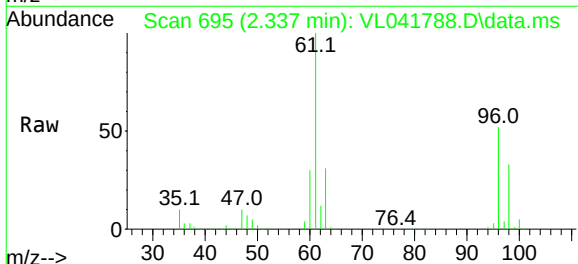
RT: 2.337 min Scan# 695

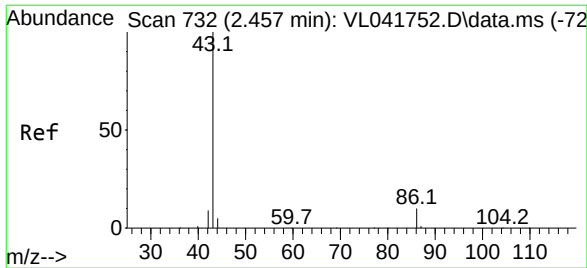
Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

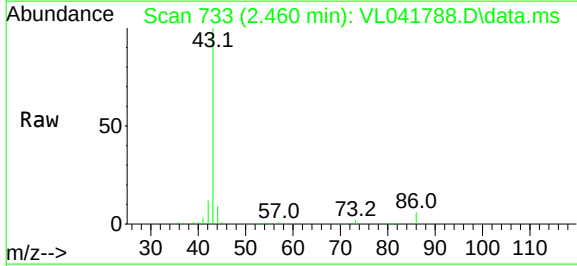
Tgt Ion:	96	Resp:	45331
Ion	Ratio	Lower	Upper
96	100		
61	193.5	146.3	219.5
98	64.1	50.8	76.2





#23
 Vinyl Acetate
 Concen: 7.673 ppbv
 RT: 2.460 min Scan# 732
 Delta R.T. 0.003 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

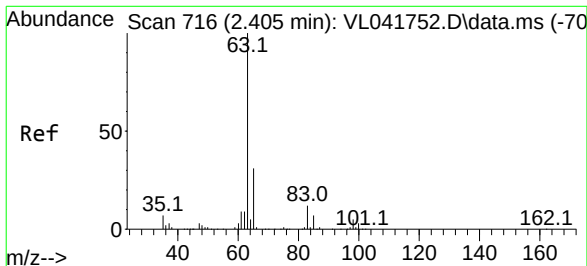
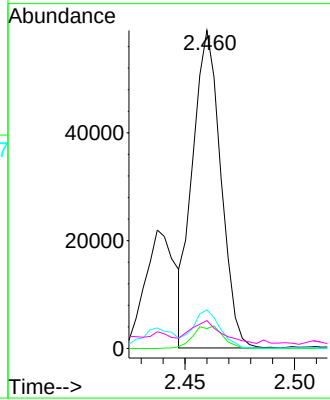
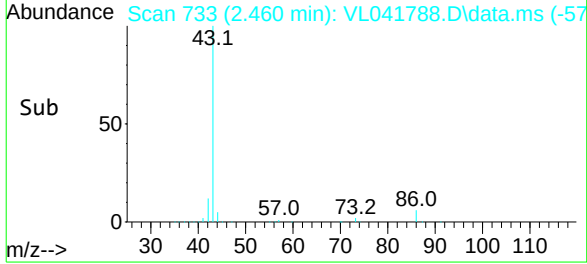
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 43 Resp: 52709
 Ion Ratio Lower Upper
 43 100
 86 6.3 6.6 10.0#
 42 12.0 8.2 12.2
 44 7.1 5.0 7.4

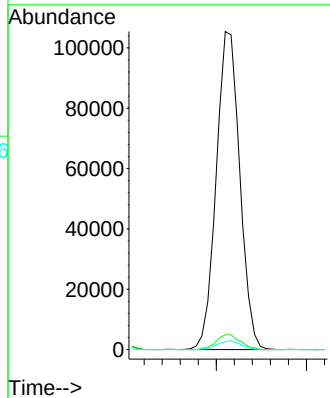
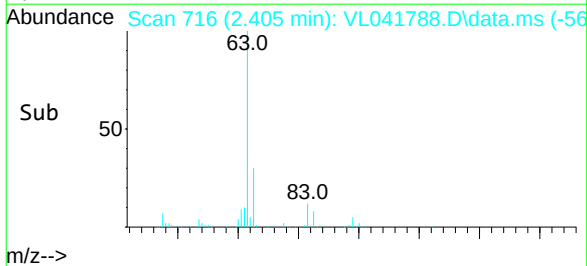
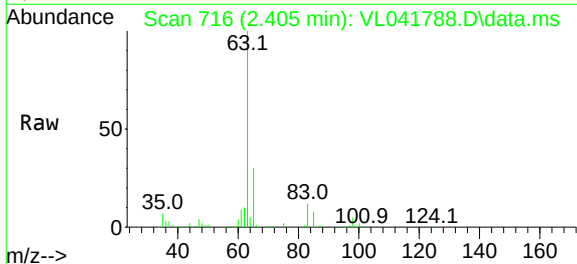
Manual Integrations
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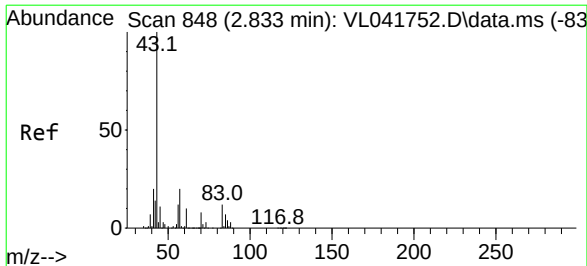
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#24
 1,1-Dichloroethane
 Concen: 9.020 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

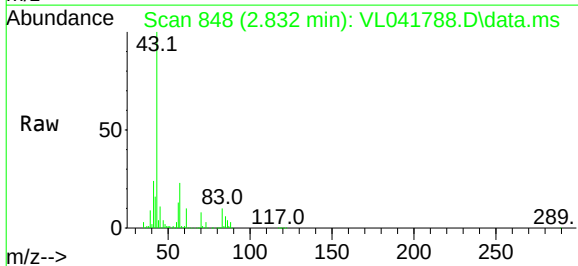
Tgt Ion: 63 Resp: 95779
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.3 6.8
 100 2.5 1.4 4.2





#25
Ethyl Acetate
Concen: 8.675 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

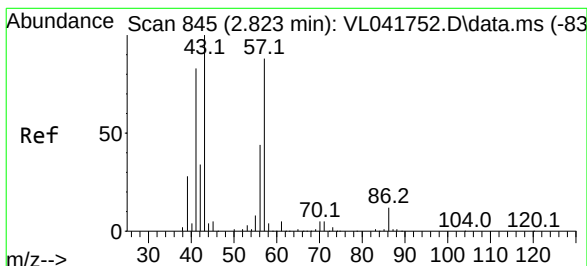
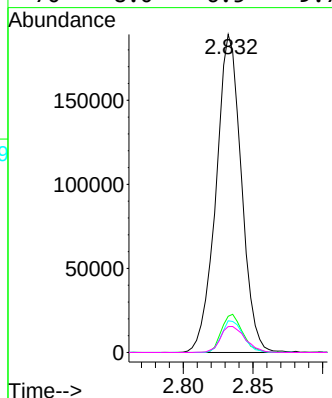
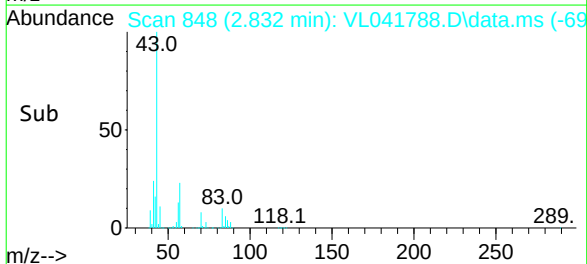
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	8.6	7.0	10.6
70	8.0	6.5	9.7

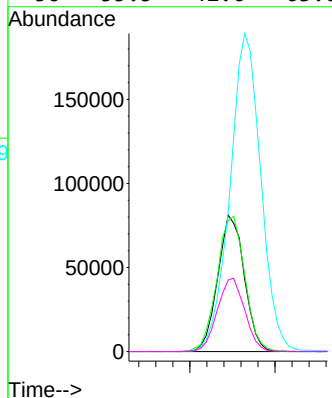
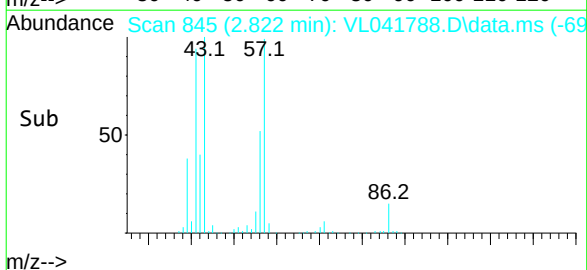
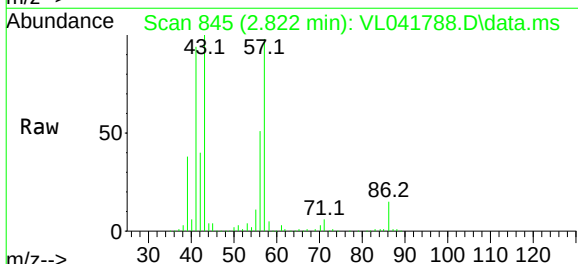
Manual Integrations
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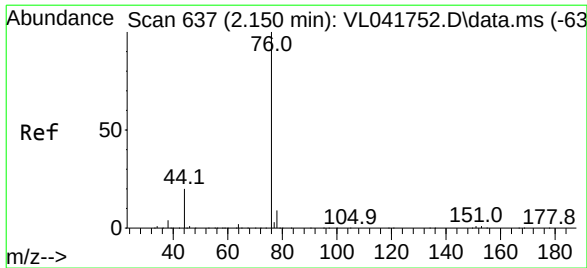
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#26
Hexane
Concen: 8.386 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

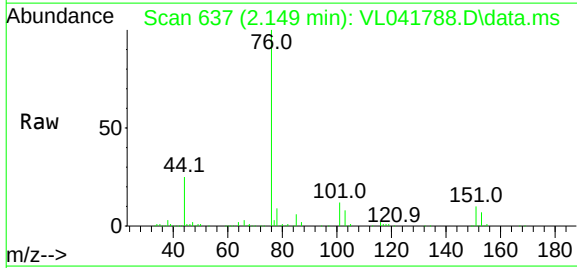
Tgt Ion	Ratio	Lower	Upper
57	100		
41	104.9	79.6	119.4
43	273.5	211.0	316.6
56	55.5	42.6	63.8





#27
Carbon Disulfide
Concen: 9.064 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

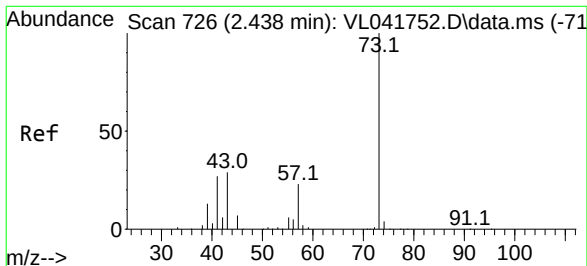
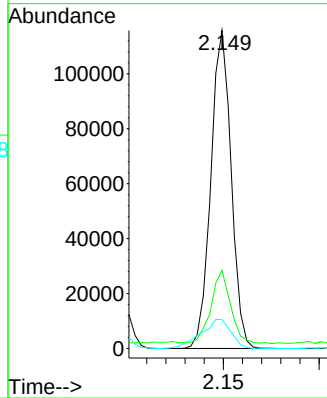
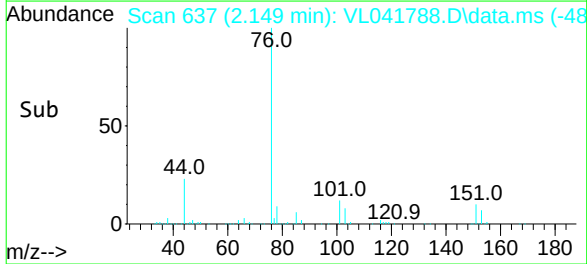
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 76 Resp: 85318
Ion Ratio Lower Upper
76 100
44 22.8 17.6 26.4
78 13.5 10.2 15.4

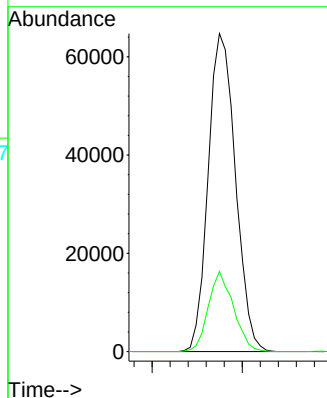
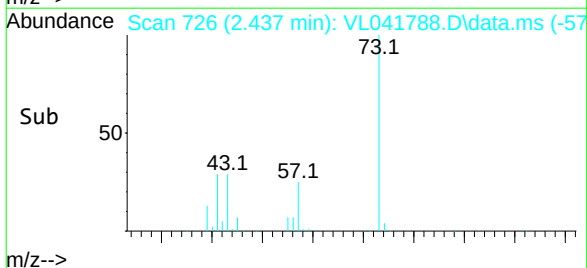
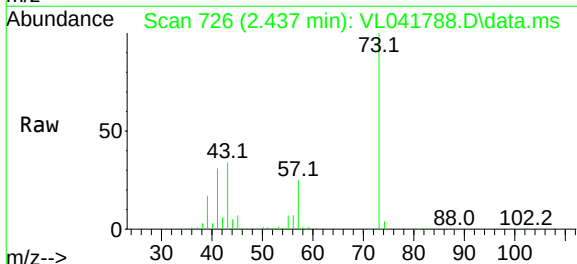
Manual Integrations
APPROVED

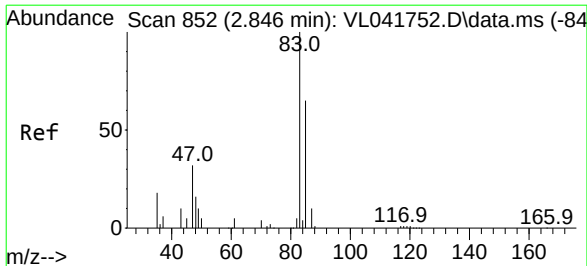
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#28
Methyl tert-Butyl Ether
Concen: 8.021 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 73 Resp: 67965
Ion Ratio Lower Upper
73 100
57 23.3 17.6 26.4





#29

Chloroform

Concen: 9.143 ppbv

RT: 2.845 min Scan# 85

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 145536

Ion Ratio Lower Upper

83 100

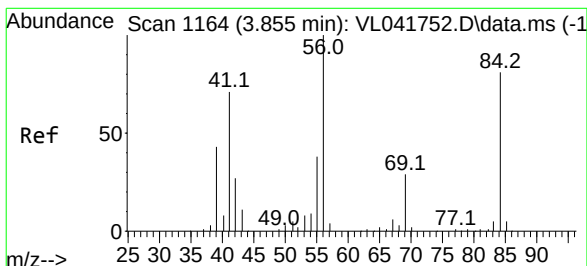
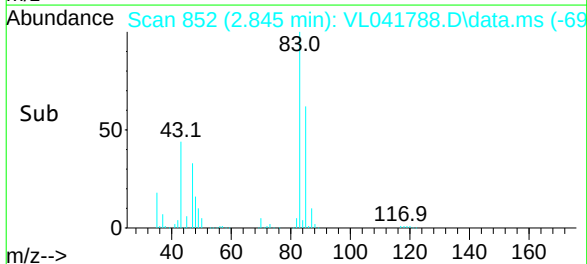
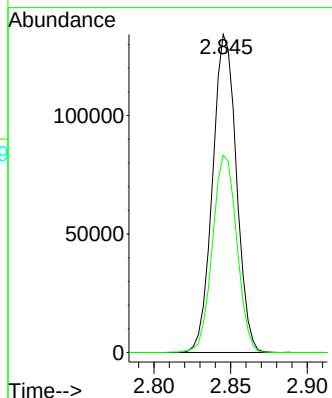
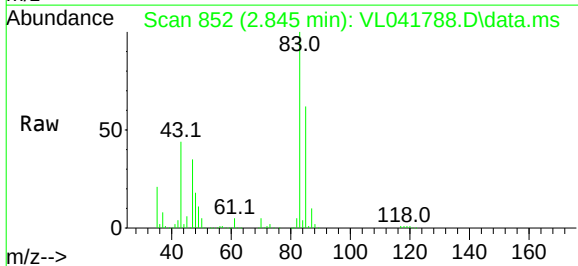
85 62.0 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#30

Cyclohexane

Concen: 8.366 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

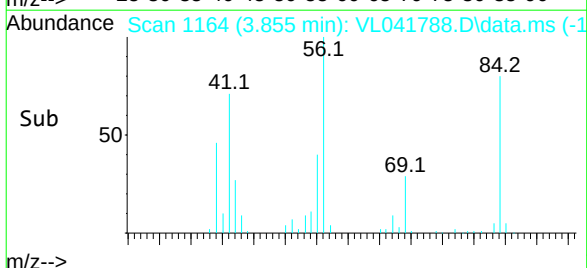
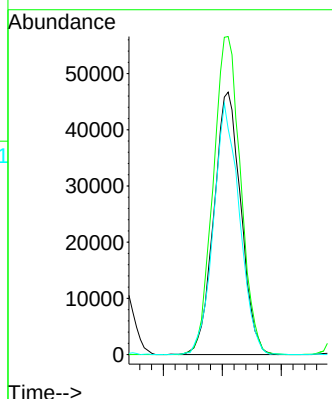
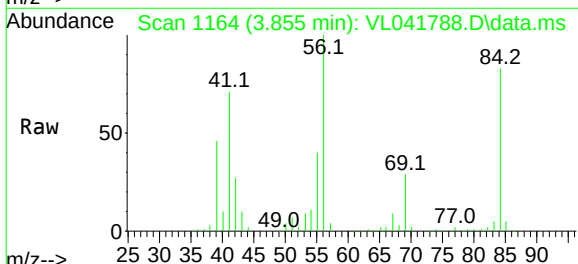
Tgt Ion: 84 Resp: 74346

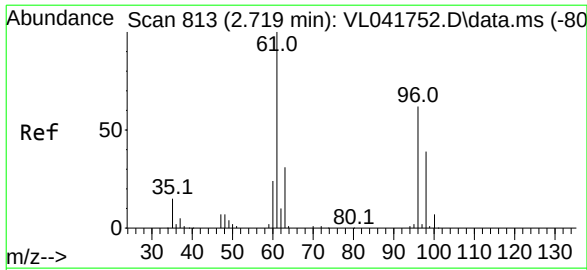
Ion Ratio Lower Upper

84 100

56 122.7 102.3 153.5

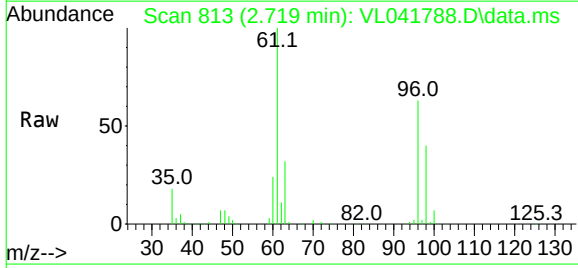
41 91.8 74.0 111.0





#31
cis-1,2-Dichloroethene
Concen: 8.567 ppbv
RT: 2.719 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

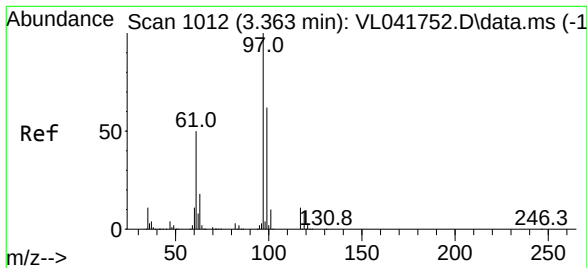
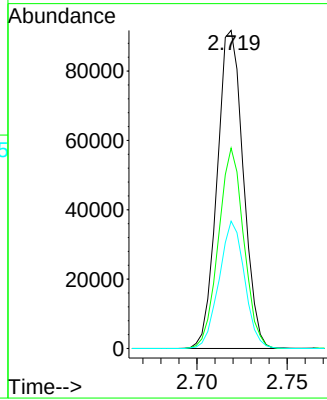
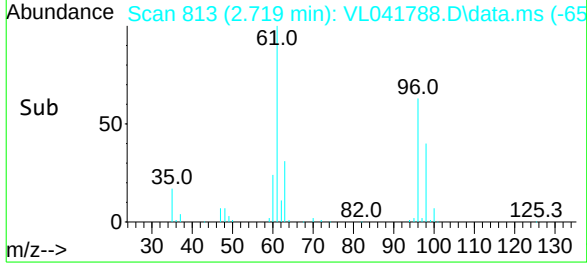
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 61 Resp: 92460
Ion Ratio Lower Upper
61 100
96 63.0 49.7 74.5
98 40.0 30.8 46.2

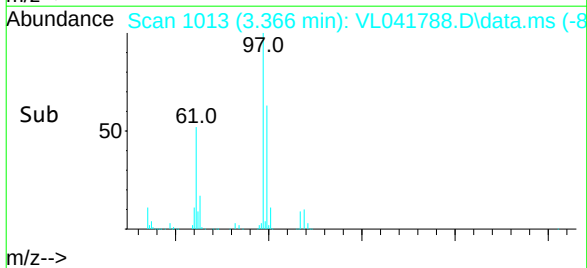
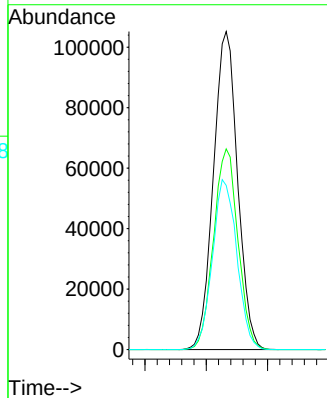
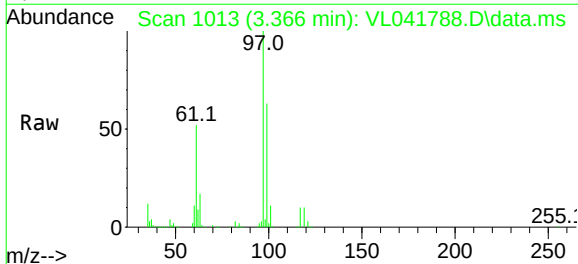
Manual Integrations
APPROVED

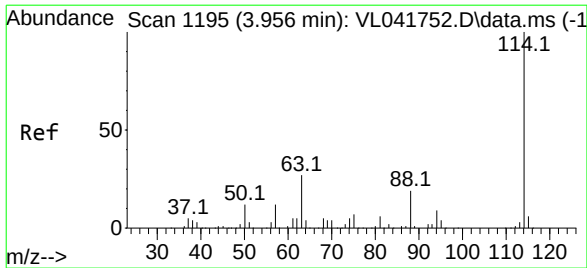
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#32
1,1,1-Trichloroethane
Concen: 8.902 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

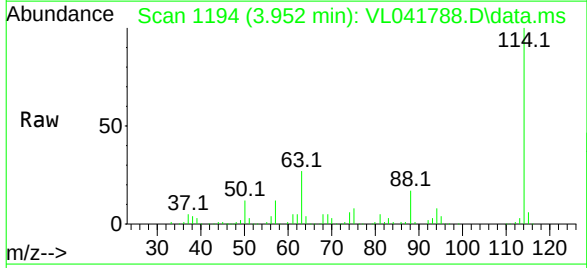
Tgt Ion: 97 Resp: 144038
Ion Ratio Lower Upper
97 100
99 63.8 51.0 76.4
61 54.0 42.2 63.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1195
Delta R.T. -0.004 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

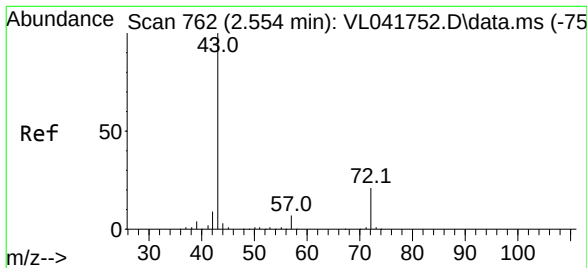
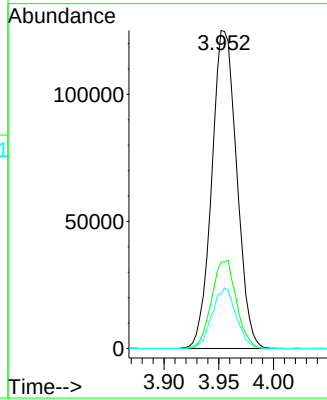
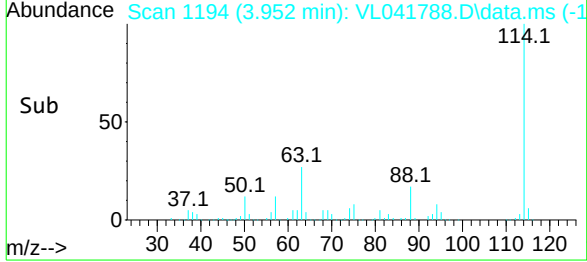
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 114 Resp: 198376
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.8
88 18.4 14.8 22.2

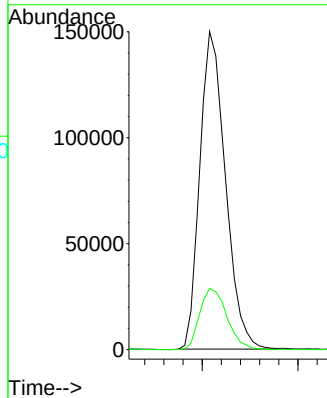
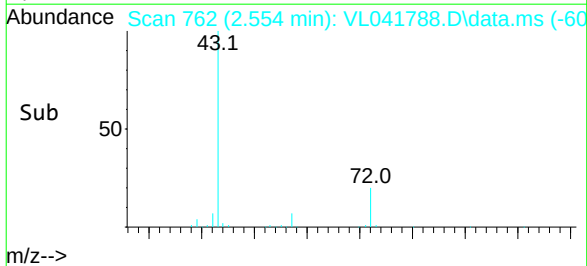
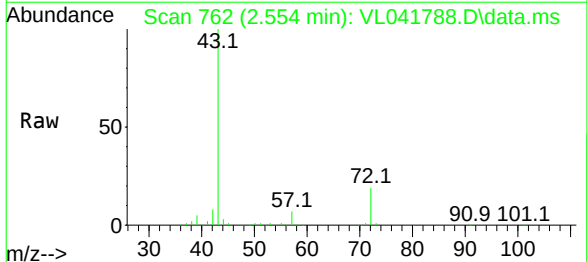
Manual Integrations
APPROVED

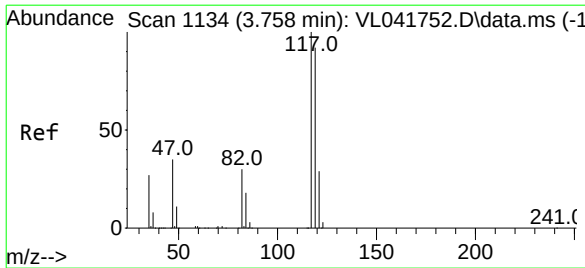
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 8.742 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

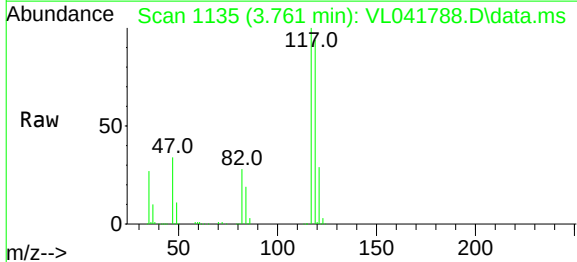
Tgt Ion: 43 Resp: 139509
Ion Ratio Lower Upper
43 100
72 20.5 16.8 25.2





#35
Carbon Tetrachloride
Concen: 10.490 ppbv
RT: 3.761 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

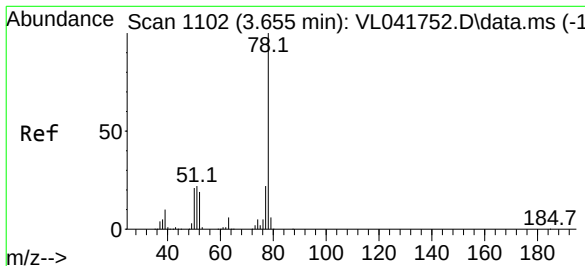
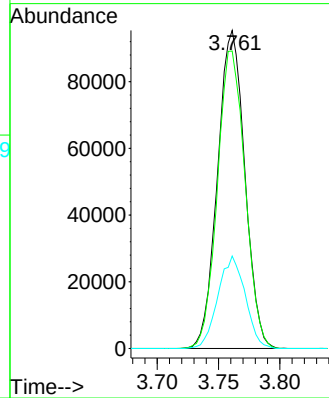
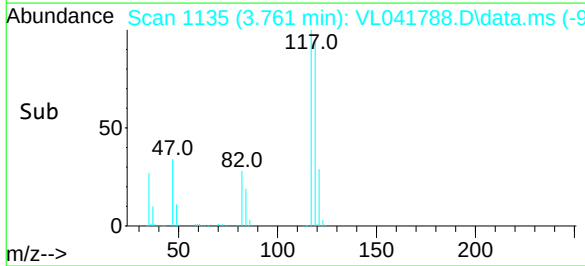
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:117 Resp: 147726
Ion Ratio Lower Upper
117 100
119 93.5 73.7 110.5
121 29.1 23.0 34.4

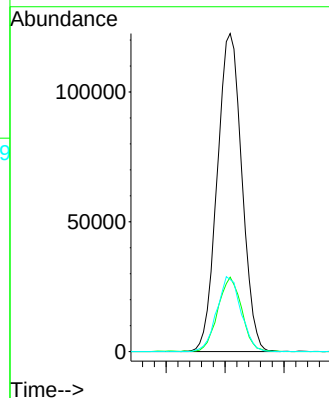
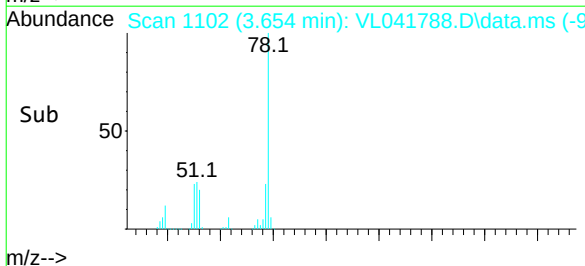
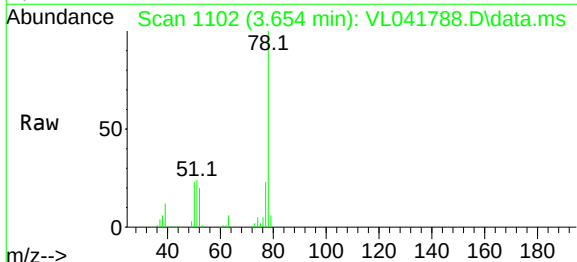
Manual Integrations
APPROVED

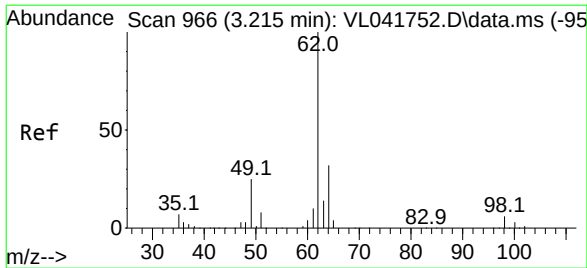
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#36
Benzene
Concen: 8.680 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 78 Resp: 178114
Ion Ratio Lower Upper
78 100
77 23.3 17.8 26.6
50 22.6 17.2 25.8





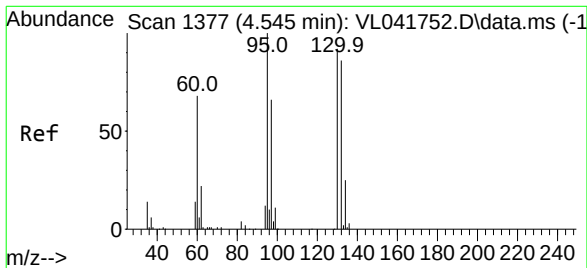
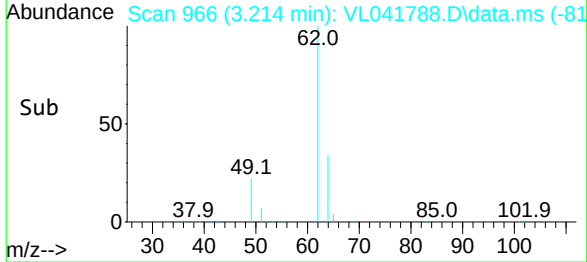
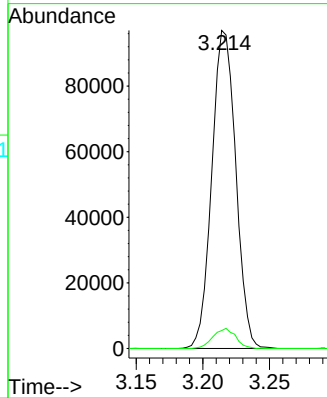
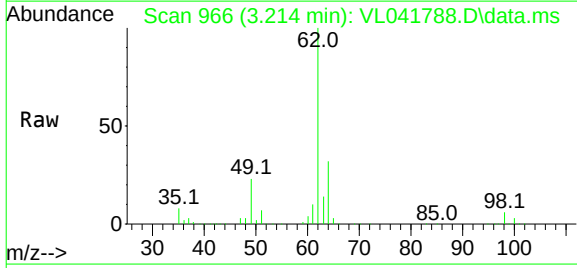
#37
1,2-Dichloroethane
Concen: 9.509 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 121412
Ion Ratio Lower Upper
62 100
98 6.0 4.7 7.1

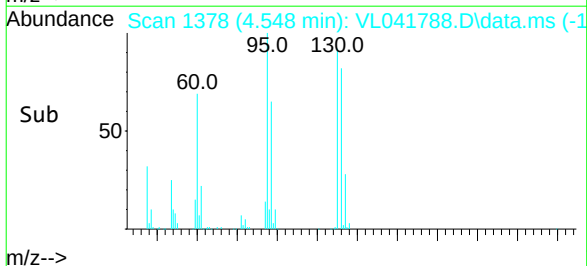
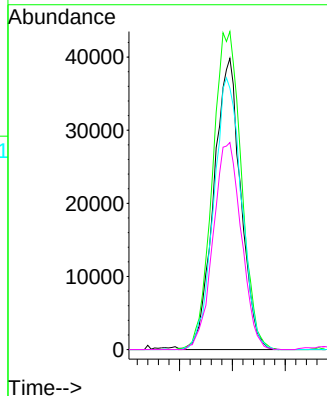
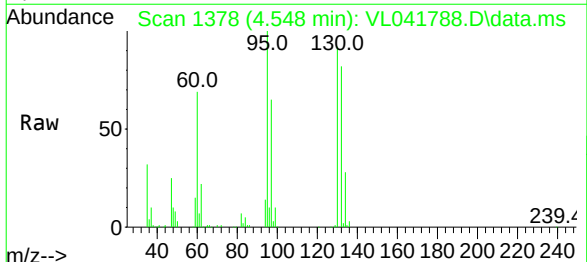
Manual Integrations
APPROVED

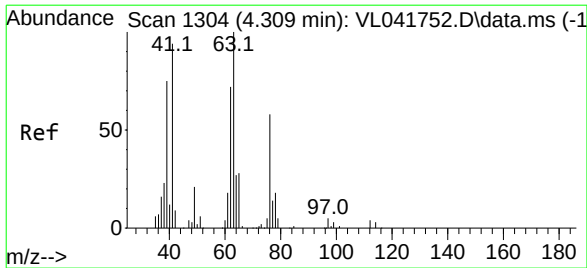
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#38
Trichloroethene
Concen: 8.057 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

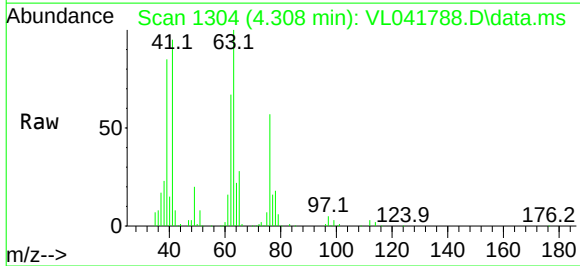
Tgt Ion:130 Resp: 70175
Ion Ratio Lower Upper
130 100
95 109.2 87.0 130.6
132 89.8 75.0 112.6
97 71.1 57.2 85.8





#39
1,2-Dichloropropane
Concen: 8.645 ppbv
RT: 4.308 min Scan# 1304
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

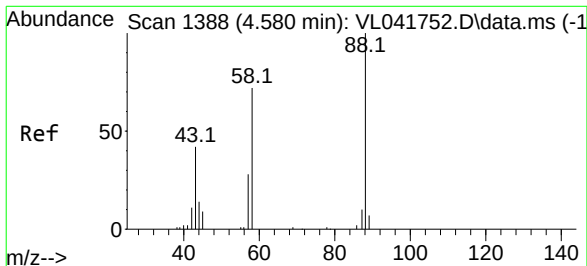
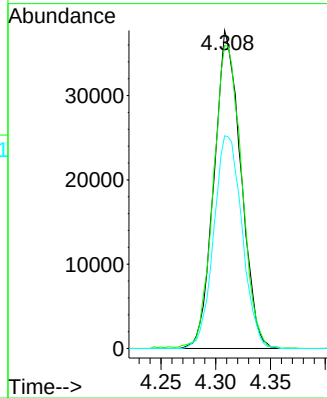
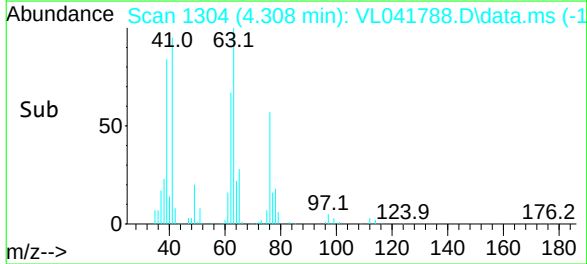
Instrument : MSVOA_1
ClientSampleId : VSTDCCC010



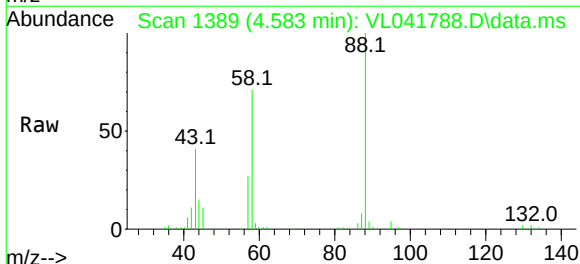
Tgt Ion: 63 Resp: 64154
Ion Ratio Lower Upper
63 100
41 94.8 75.3 112.9
62 66.9 57.3 85.9

Manual Integrations
APPROVED

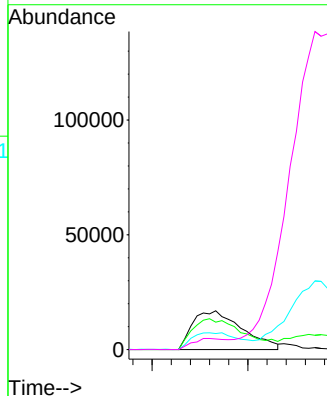
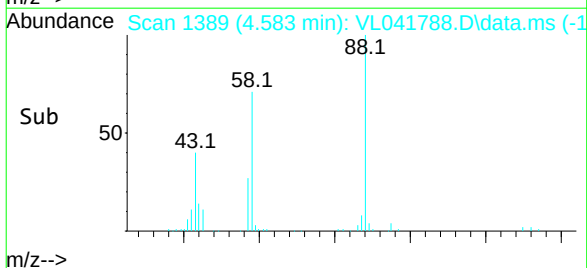
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

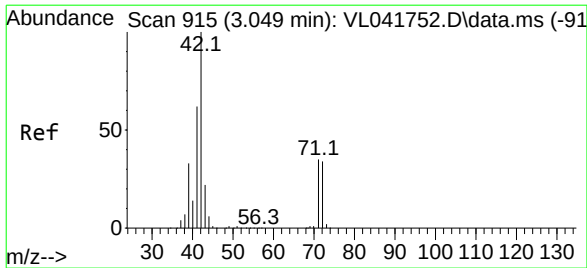


#40
1,4-Dioxane
Concen: 8.347 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



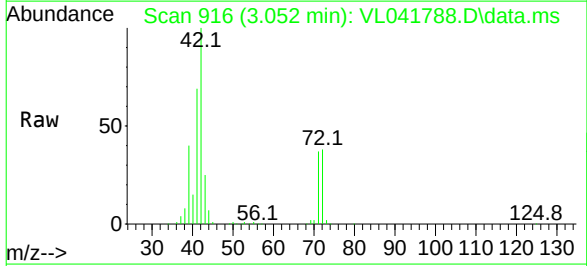
Tgt Ion: 88 Resp: 30262
Ion Ratio Lower Upper
88 100
58 79.3 61.0 91.6
43 40.5 29.4 44.0
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.359 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

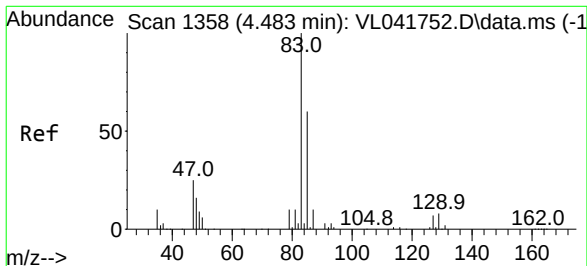
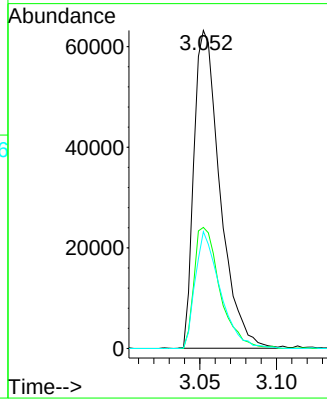
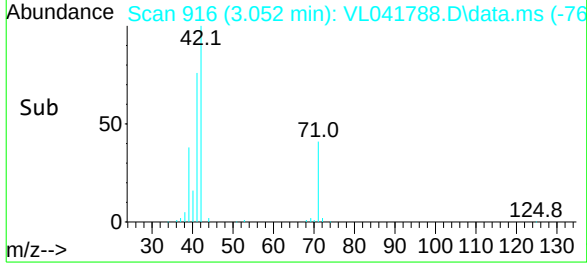
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



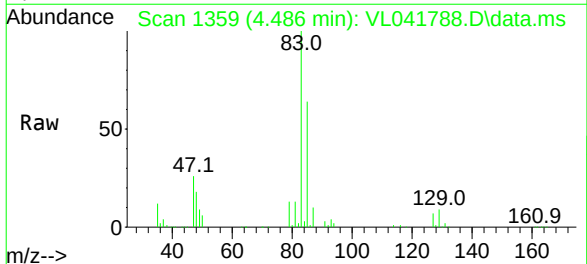
Tgt Ion: 42 Resp: 74734
Ion Ratio Lower Upper
42 100
72 38.0 29.1 43.7
71 35.3 28.4 42.6

Manual Integrations
APPROVED

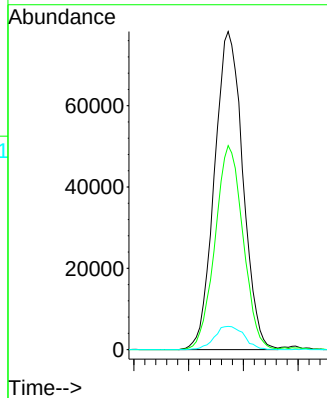
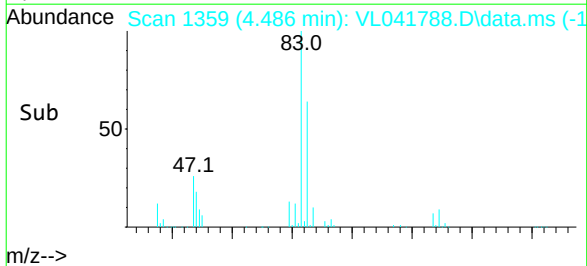
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

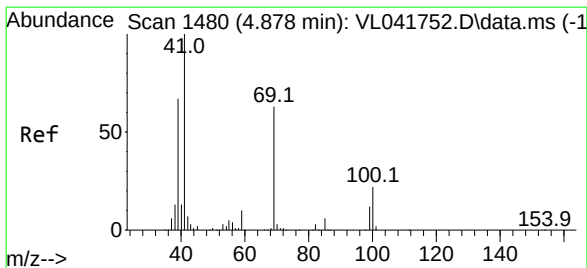


#42
Bromodichloromethane
Concen: 9.588 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



Tgt Ion: 83 Resp: 140832
Ion Ratio Lower Upper
83 100
85 64.1 48.0 72.0
127 7.3 5.8 8.8





#43

Methyl Methacrylate

Concen: 8.895 ppbv

RT: 4.878 min Scan# 14

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

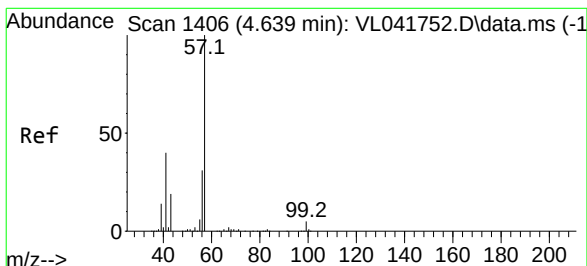
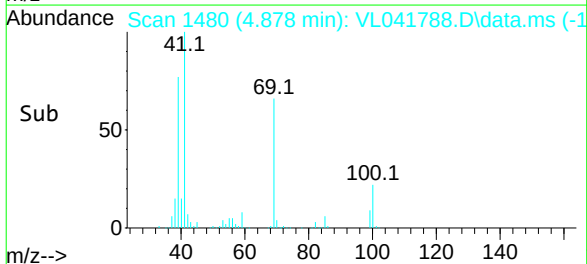
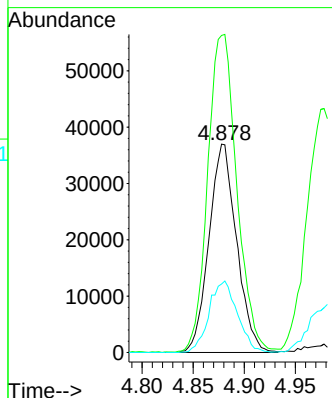
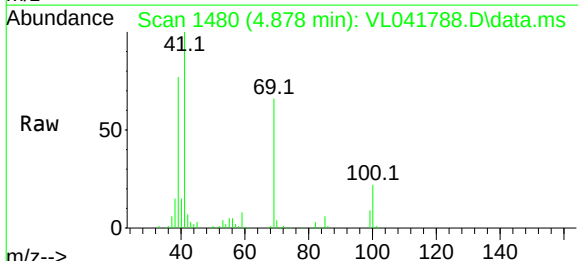
VSTDCCC010

Tgt Ion:	69	Resp:	69545
Ion	Ratio	Lower	Upper
69	100		
41	161.4	130.3	195.5
100	35.2	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#44

2,2,4-Trimethylpentane

Concen: 8.627 ppbv

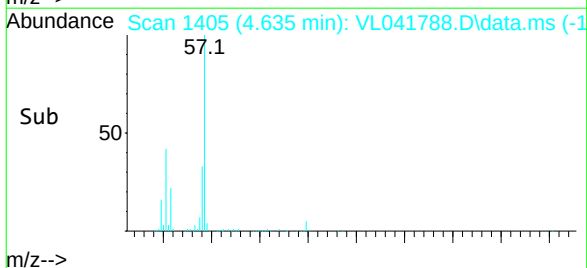
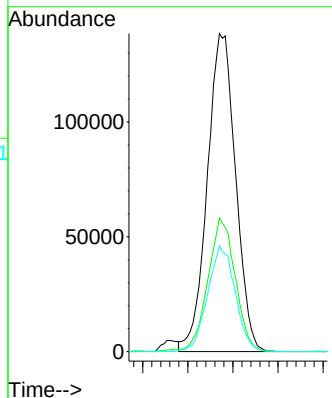
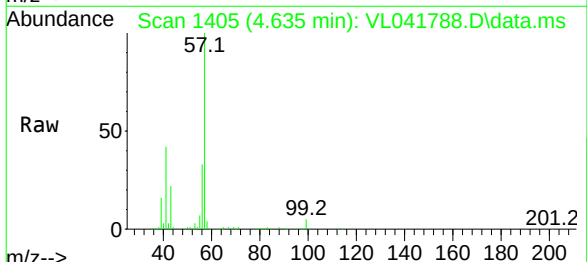
RT: 4.635 min Scan# 1405

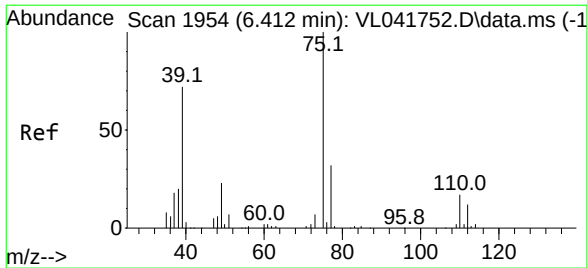
Delta R.T. -0.004 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion:	57	Resp:	302332
Ion	Ratio	Lower	Upper
57	100		
41	40.7	30.7	46.1
56	32.3	25.4	38.0





#45

t-1,3-Dichloropropene

Concen: 8.607 ppbv

RT: 6.412 min Scan# 19

Delta R.T. -0.000 min

Lab File: VL041788.D

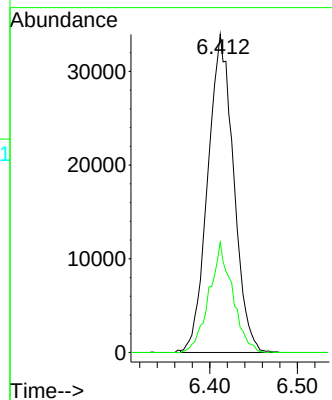
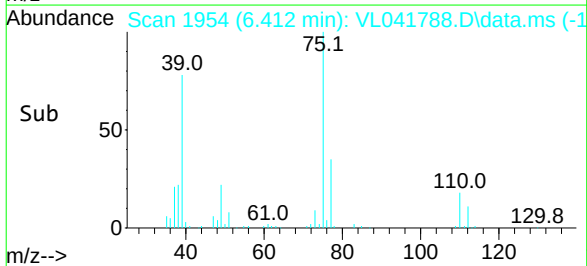
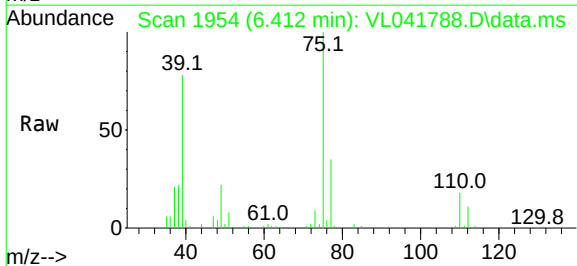
Acq: 18 Dec 2024 10:29

Tgt Ion: 75 Resp: 69601

Ion Ratio Lower Upper

75 100

77 34.6 25.9 38.9



Instrument :

MSVOA_L

ClientSampleId :

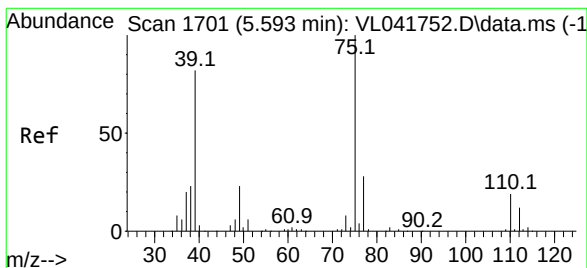
VSTDCCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#46

cis-1,3-Dichloropropene

Concen: 8.701 ppbv m

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

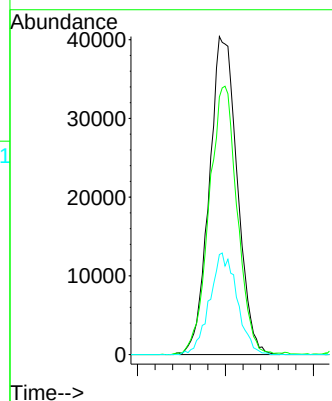
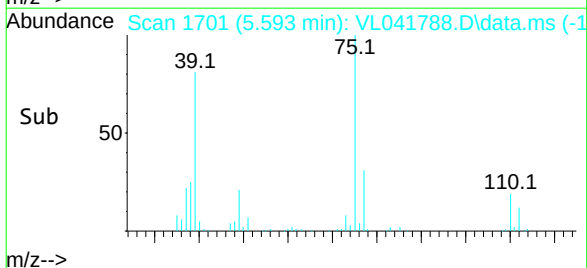
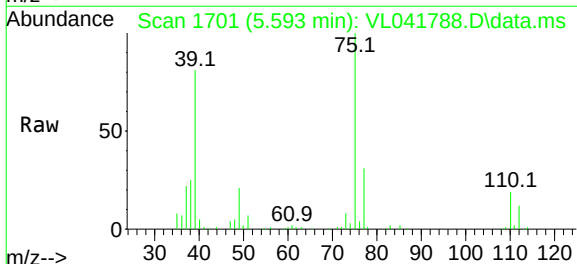
Tgt Ion: 75 Resp: 89328

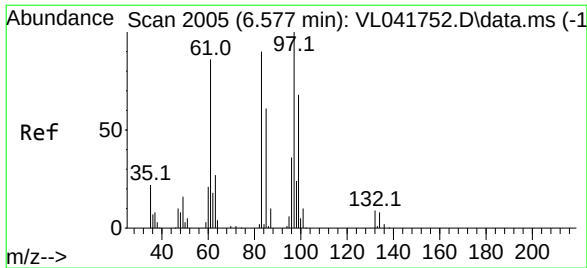
Ion Ratio Lower Upper

75 100

39 81.0 65.2 97.8

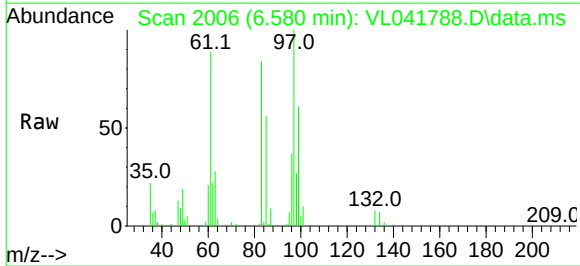
77 31.4 22.0 33.0





#47
1,1,2-Trichloroethane
Concen: 8.736 ppbv
RT: 6.580 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

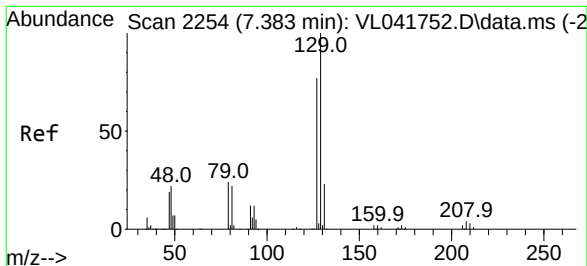
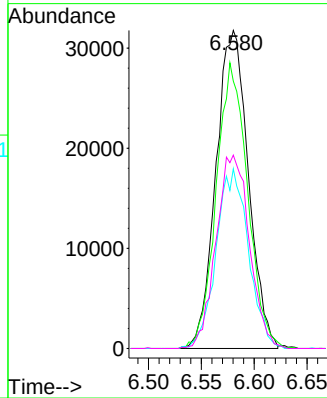
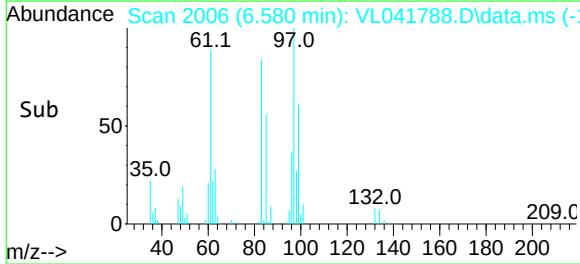
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 97 Resp: 67717
Ion Ratio Lower Upper
97 100
83 84.1 72.3 108.5
85 56.5 48.5 72.7
99 60.8 54.0 81.0

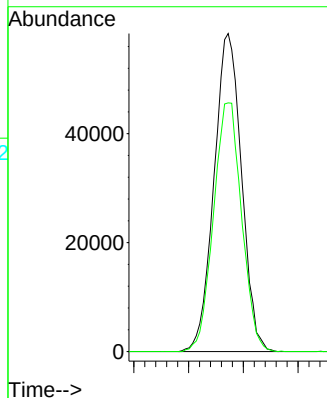
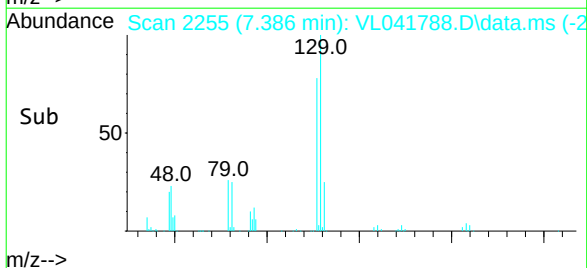
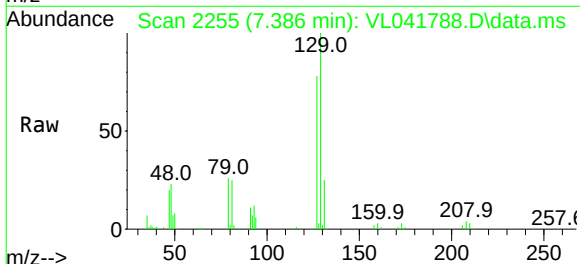
Manual Integrations
APPROVED

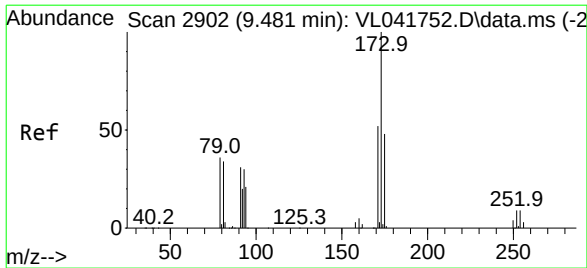
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#48
Dibromochloromethane
Concen: 9.625 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:129 Resp: 101875
Ion Ratio Lower Upper
129 100
127 80.0 38.8 116.3





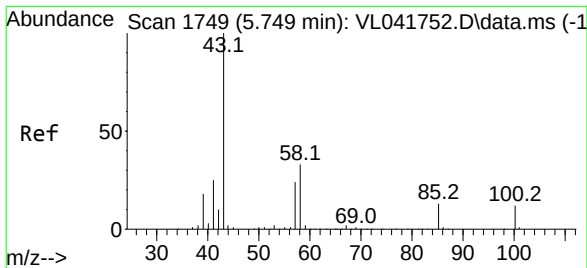
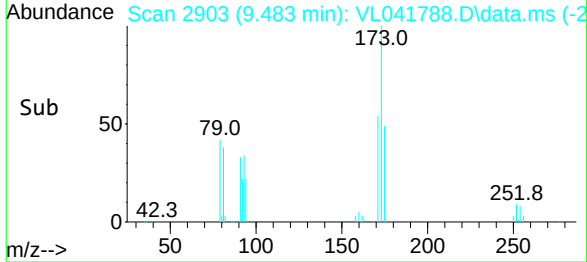
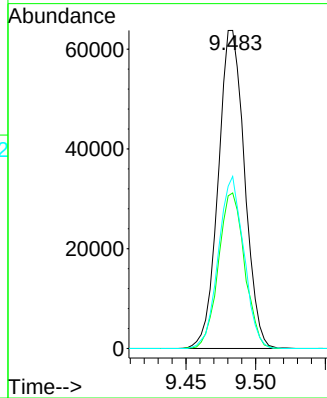
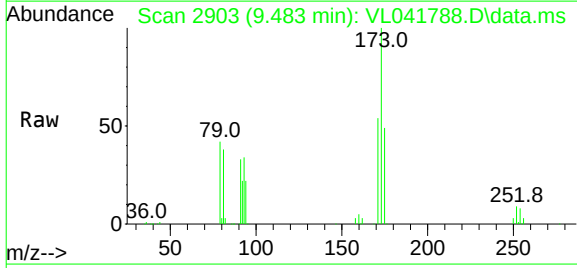
#49
Bromoform
Concen: 9.655 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 173 Resp: 83649
Ion Ratio Lower Upper
173 100
175 48.6 38.2 57.2
171 52.2 41.1 61.7

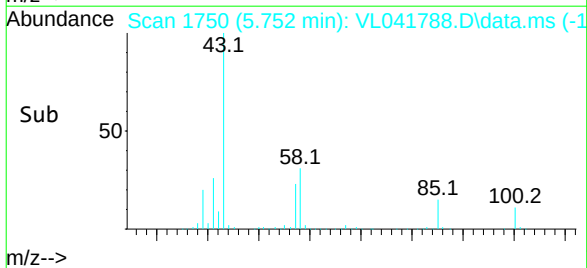
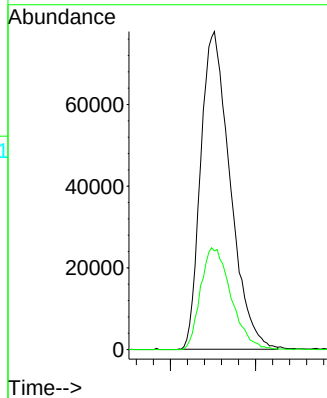
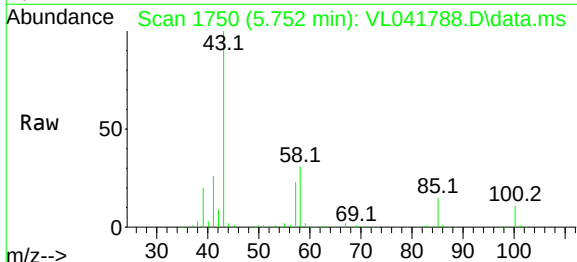
Manual Integrations
APPROVED

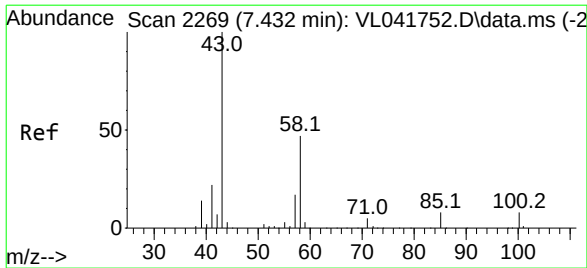
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#50
4-Methyl-2-Pentanone
Concen: 8.600 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 43 Resp: 186865
Ion Ratio Lower Upper
43 100
58 33.2 26.8 40.2





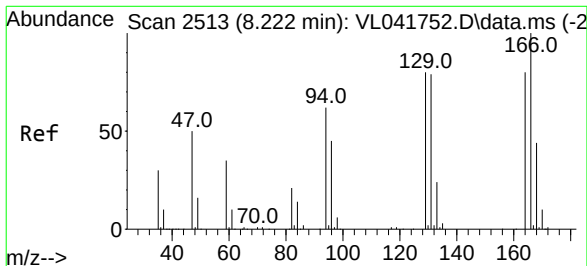
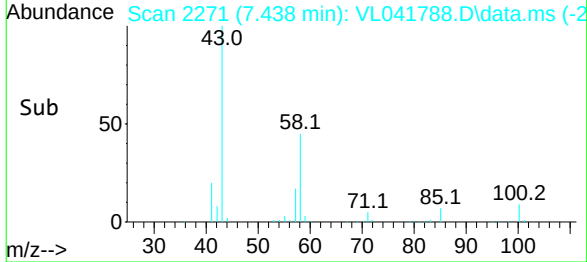
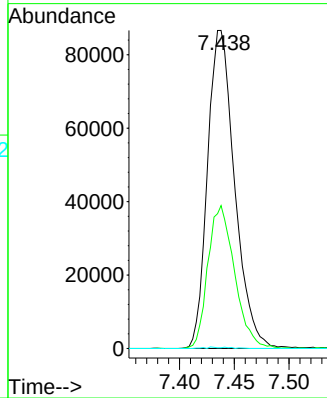
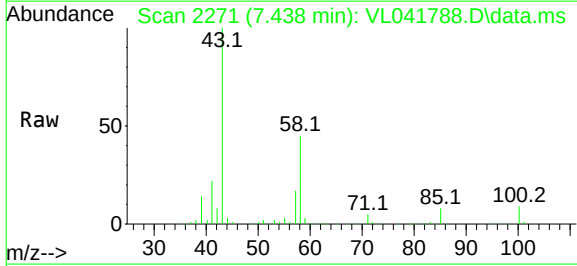
#51
2-Hexanone
Concen: 8.472 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 149217
Ion Ratio Lower Upper
43 100
58 44.3 36.6 55.0
98 0.4 0.1 0.1

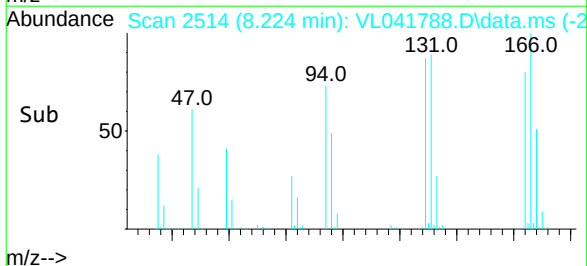
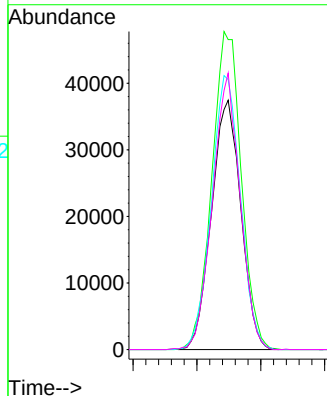
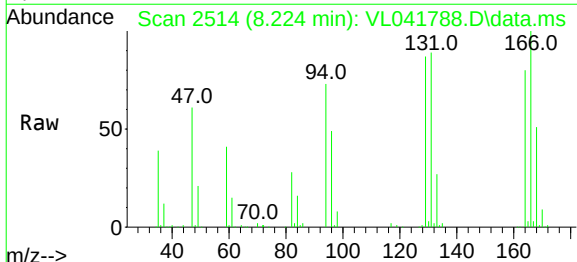
Manual Integrations
APPROVED

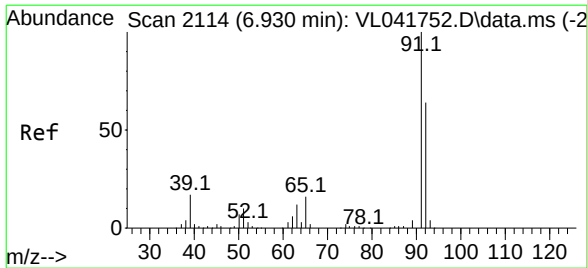
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#52
Tetrachloroethene
Concen: 7.824 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:164 Resp: 59756
Ion Ratio Lower Upper
164 100
166 124.1 99.8 149.6
129 108.3 79.6 119.4
131 110.9 78.6 117.8





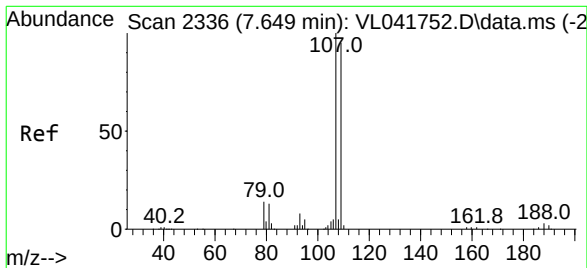
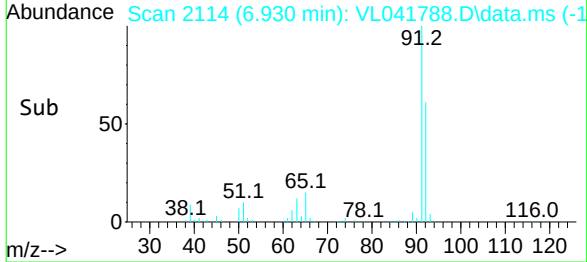
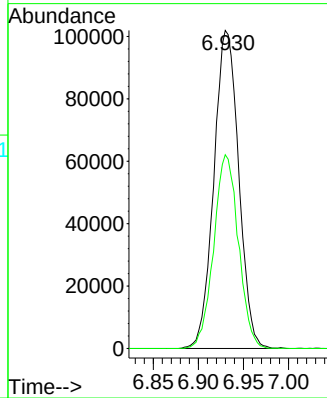
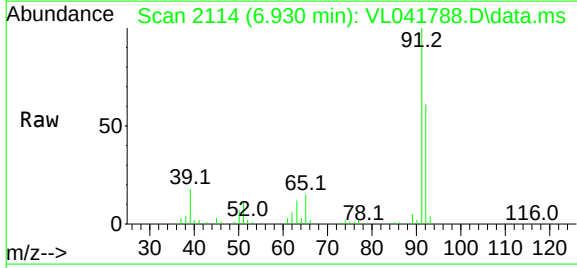
#53
Toluene
Concen: 8.389 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion: 91 Resp: 195158
Ion Ratio Lower Upper
91 100
92 60.5 47.9 71.9

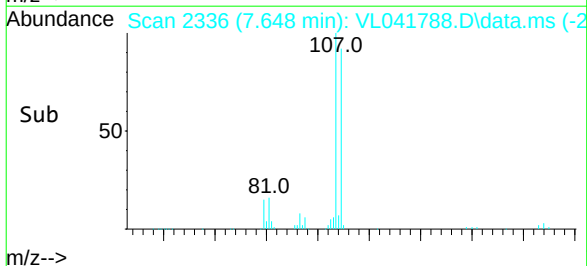
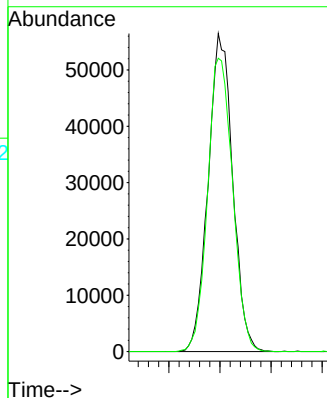
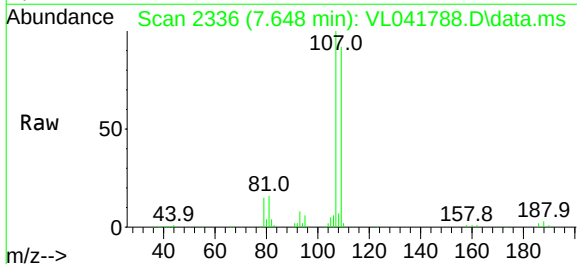
Manual Integrations
APPROVED

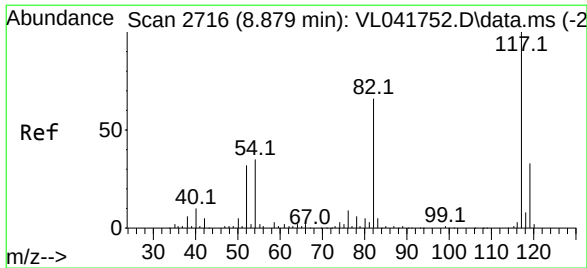
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#54
1,2-Dibromoethane
Concen: 8.814 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

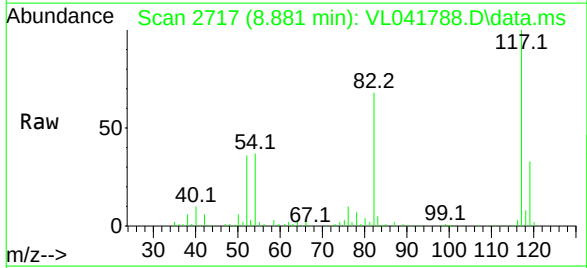
Tgt Ion:107 Resp: 94138
Ion Ratio Lower Upper
107 100
109 92.2 75.9 113.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

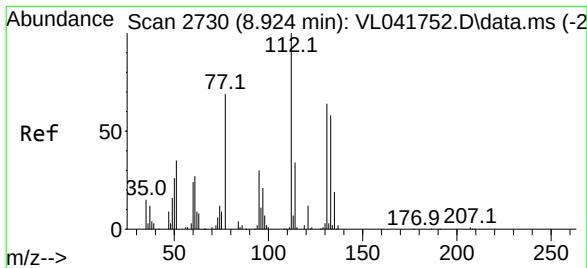
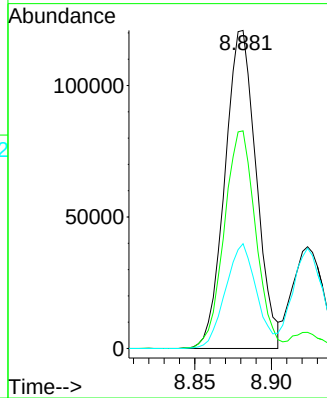
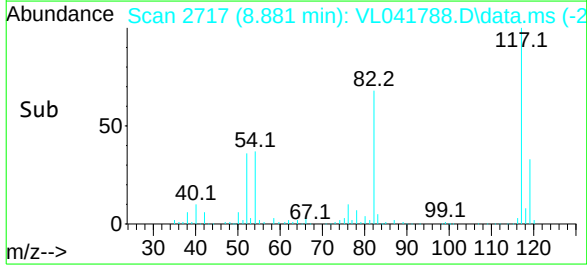
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:117 Resp: 172190
Ion Ratio Lower Upper
117 100
82 73.5 53.8 80.8
119 33.1 26.7 40.1

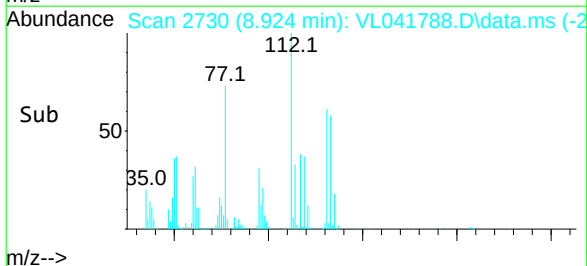
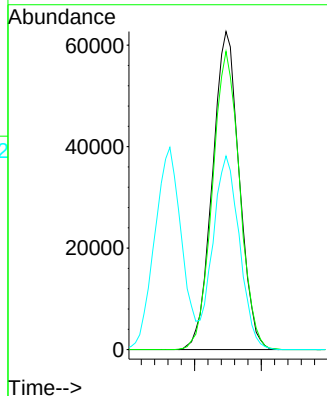
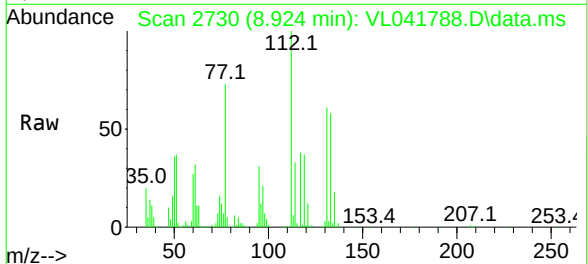
Manual Integrations
APPROVED

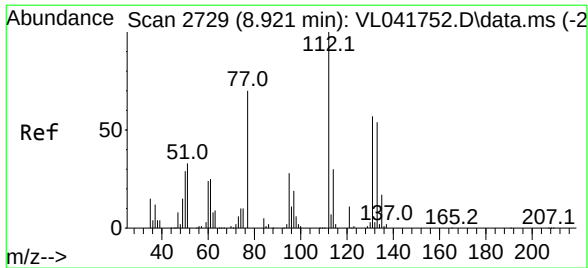
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#56
1,1,1,2-Tetrachloroethane
Concen: 9.626 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

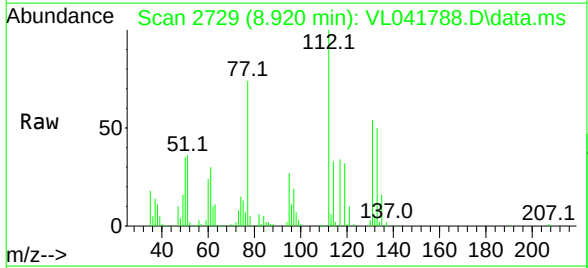
Tgt Ion:131 Resp: 87869
Ion Ratio Lower Upper
131 100
133 94.8 76.8 115.2
119 60.8 49.0 73.6





#57
Chlorobenzene
Concen: 8.912 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

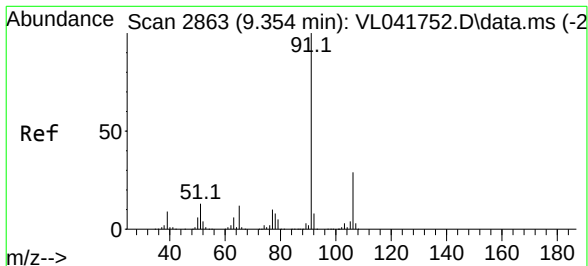
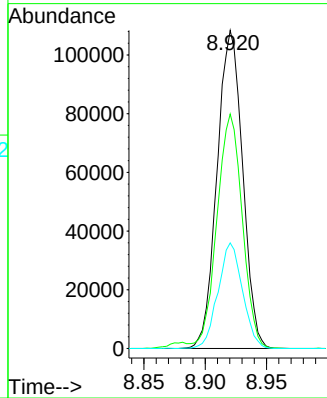
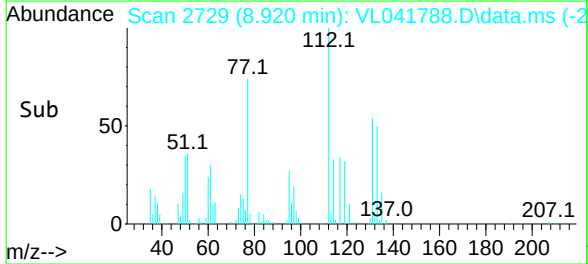
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 157039
Ion Ratio Lower Upper
112 100
77 73.6 57.4 86.0
114 33.2 27.4 33.4

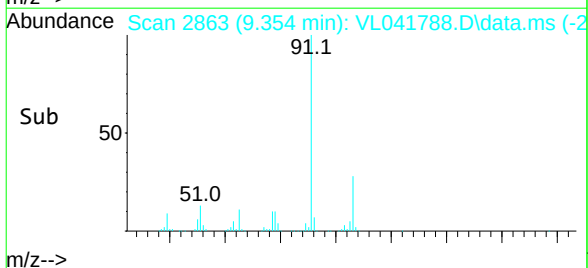
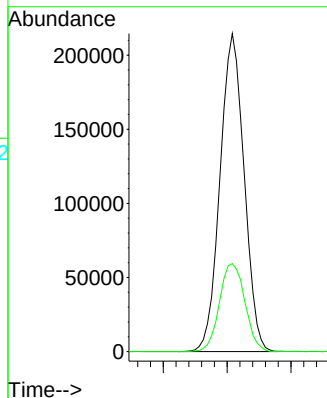
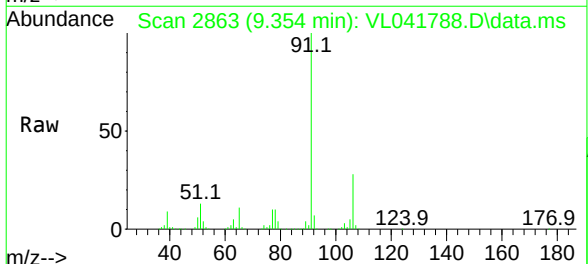
Manual Integrations
APPROVED

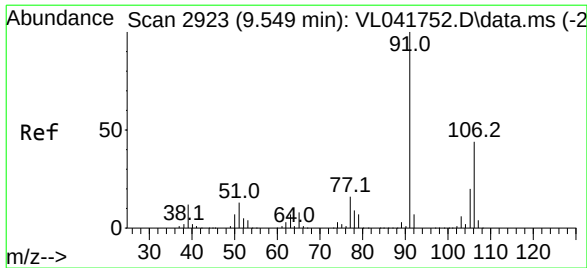
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#58
Ethyl Benzene
Concen: 9.074 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 91 Resp: 281290
Ion Ratio Lower Upper
91 100
106 27.7 23.5 35.3





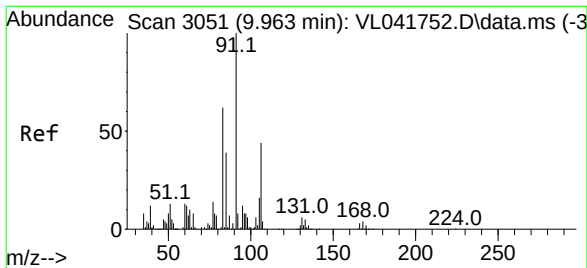
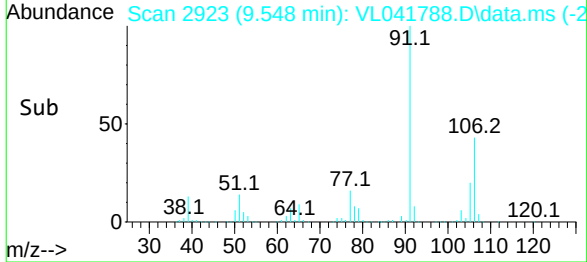
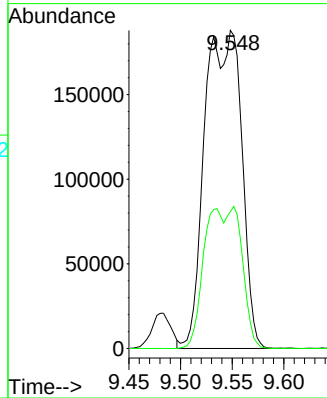
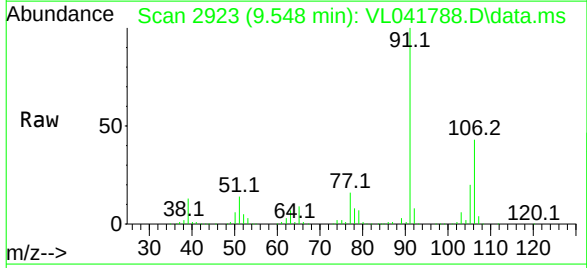
#59
m/p-Xylene
Concen: 18.725 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion: 91 Resp: 466737
Ion Ratio Lower Upper
91 100
106 45.2 0.0 0.0#

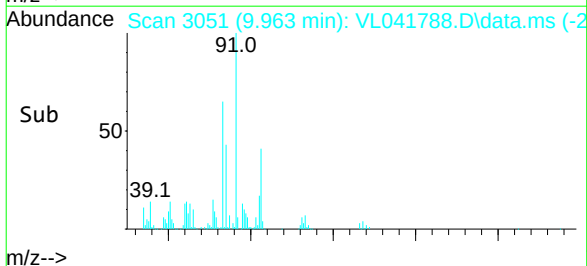
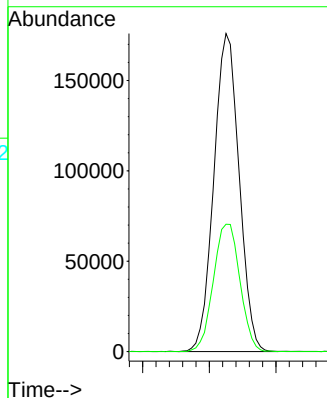
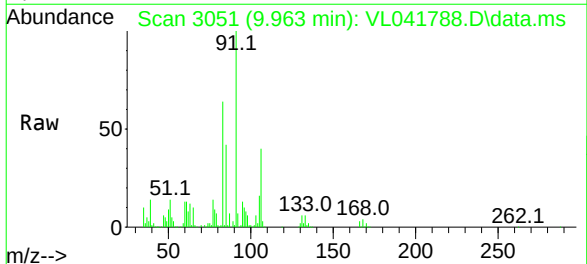
Manual Integrations
APPROVED

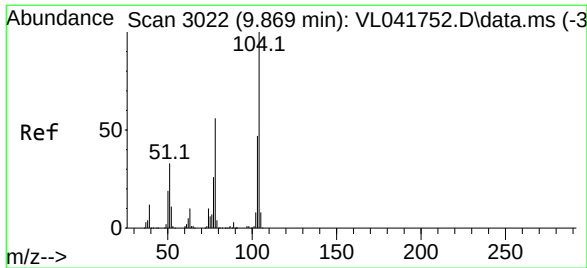
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#60
o-Xylene
Concen: 9.283 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 91 Resp: 232028
Ion Ratio Lower Upper
91 100
106 42.1 21.1 63.4





#61

Styrene

Concen: 9.550 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

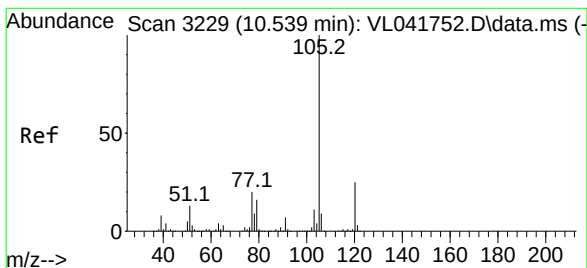
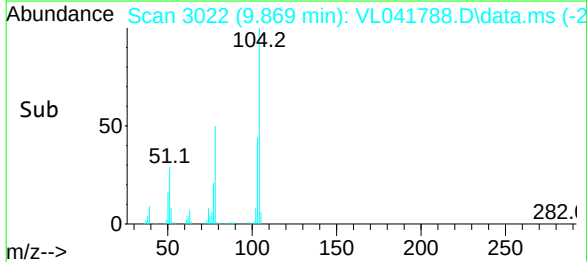
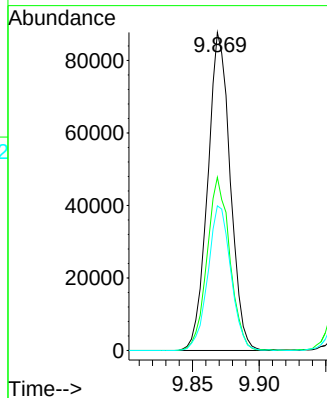
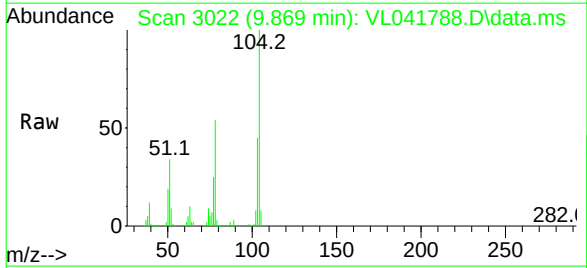
VSTDCCC010

Tgt Ion:	104	Resp:	103216
Ion Ratio	Lower	Upper	
104	100		
78	55.1	43.8	65.6
103	46.5	37.8	56.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#62

Isopropylbenzene

Concen: 9.397 ppbv

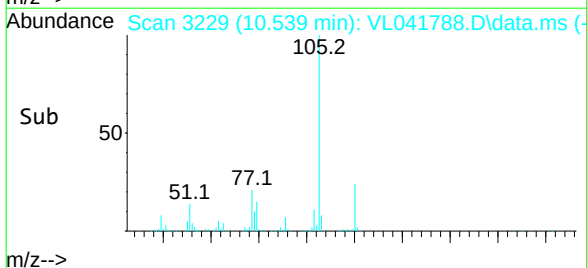
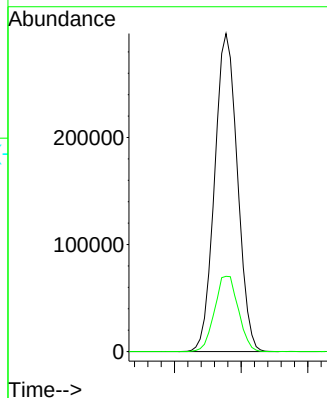
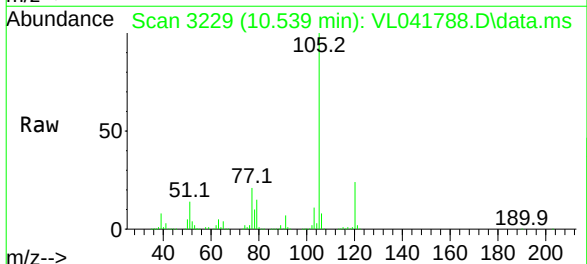
RT: 10.539 min Scan# 3229

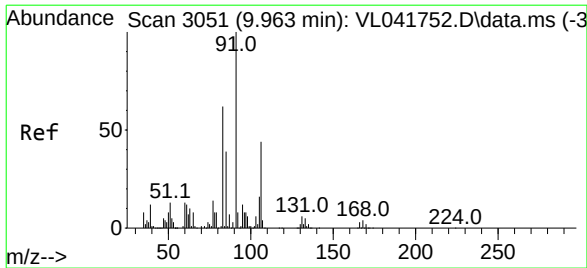
Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion:	105	Resp:	352903
Ion Ratio	Lower	Upper	
105	100		
120	24.7	19.8	29.8





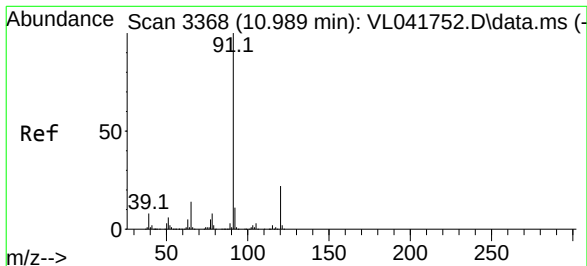
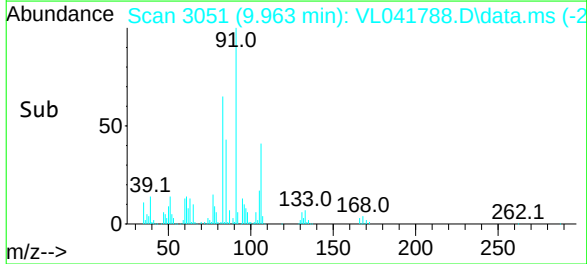
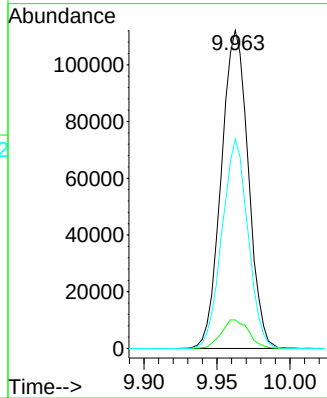
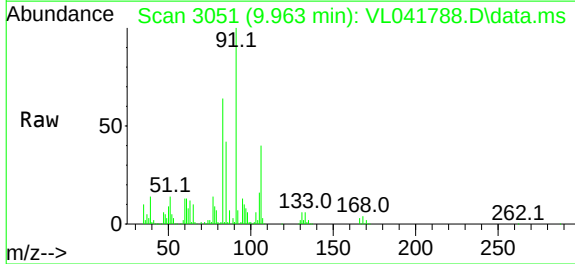
#63
1,1,2,2-Tetrachloroethane
Concen: 9.216 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument : MSVOA_1
ClientSampleId : VSTDCCC010

Tgt Ion: 83 Resp: 144197
Ion Ratio Lower Upper
83 100
131 9.2 4.9 14.7
85 63.4 32.0 96.2

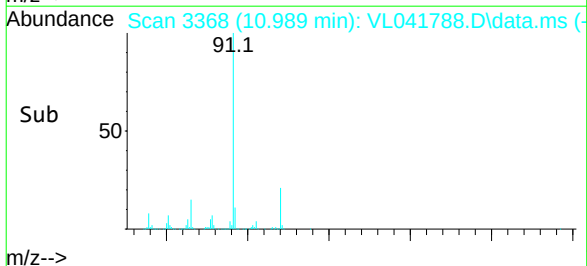
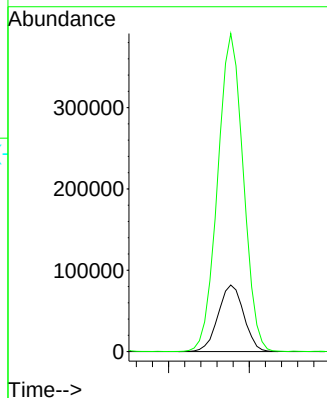
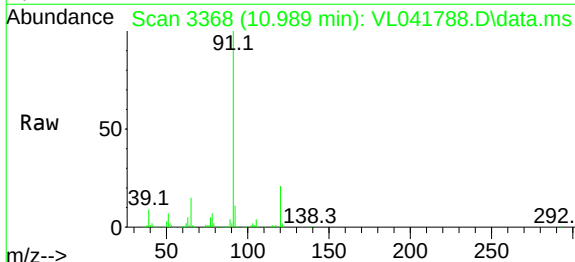
Manual Integrations
APPROVED

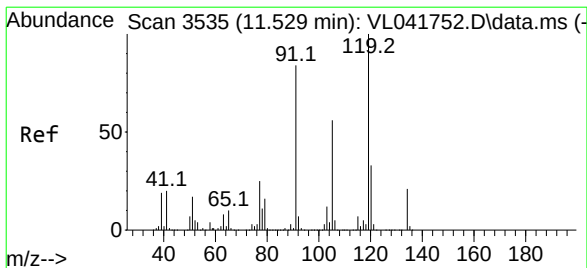
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#64
n-propylbenzene
Concen: 9.483 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:120 Resp: 90043
Ion Ratio Lower Upper
120 100
91 480.1 387.3 580.9





#65

tert-Butylbenzene

Concen: 9.295 ppbv

RT: 11.532 min Scan# 3535

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

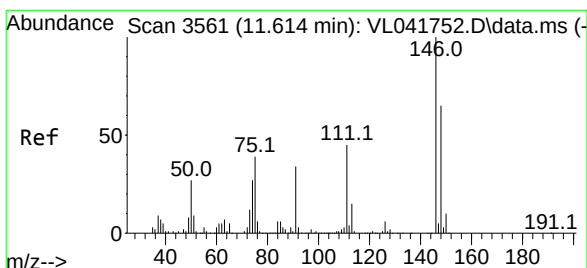
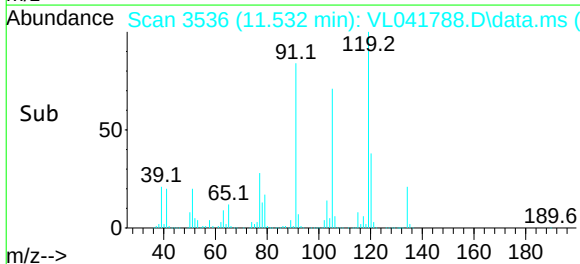
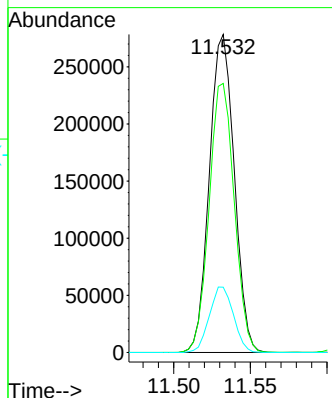
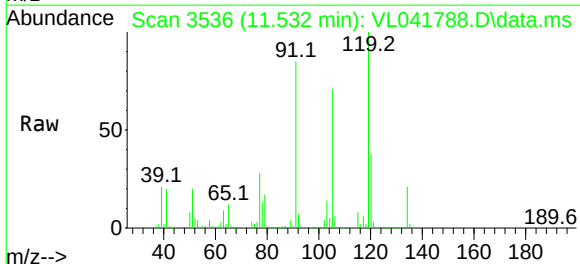
ClientSampleId :

VSTDCCC010

Tgt Ion:	119	Resp:	314940
Ion	Ratio	Lower	Upper
119	100		
91	85.5	67.0	100.4
134	19.9	16.5	24.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#66

Benzyl Chloride

Concen: 7.426 ppbv

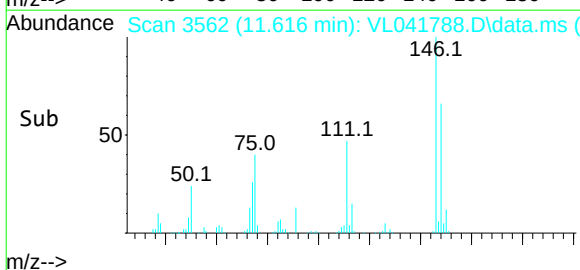
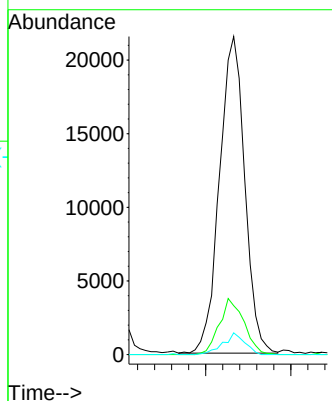
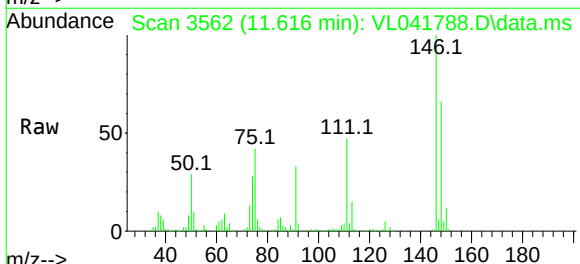
RT: 11.616 min Scan# 3562

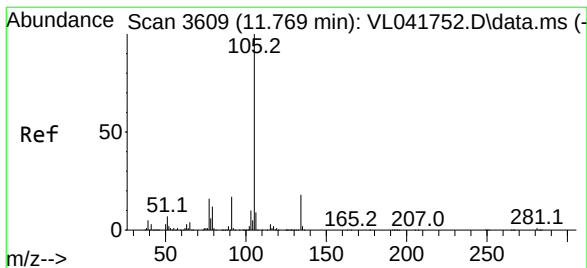
Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion:	91	Resp:	22164
Ion	Ratio	Lower	Upper
91	100		
126	17.3	13.9	20.9
128	5.8	4.4	6.6





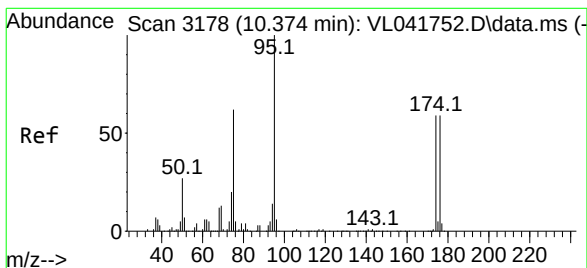
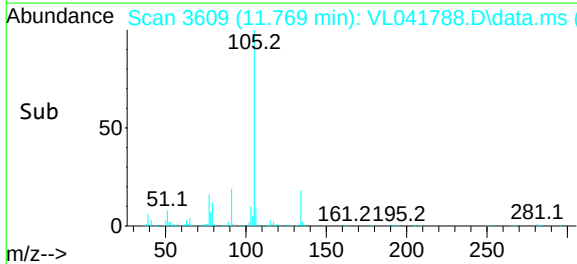
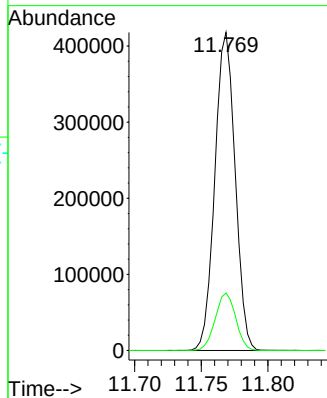
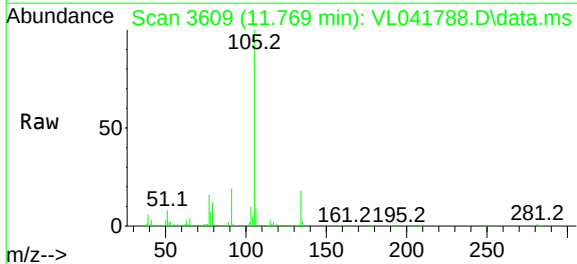
#67
sec-Butylbenzene
Concen: 9.431 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 105 Resp: 442201
Ion Ratio Lower Upper
105 100
134 18.3 14.5 21.7

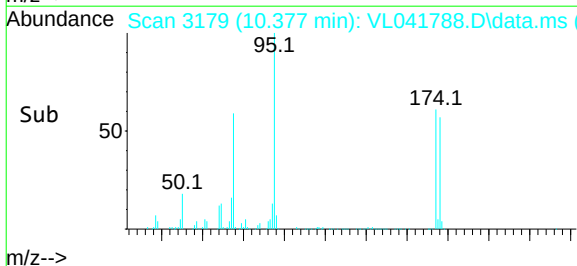
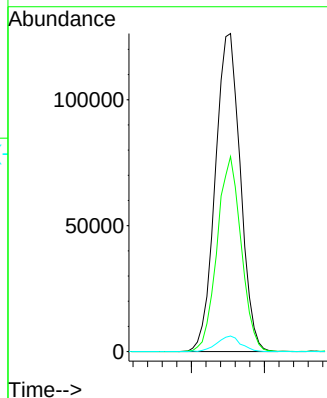
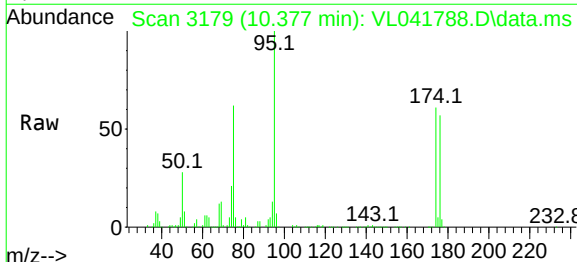
Manual Integrations
APPROVED

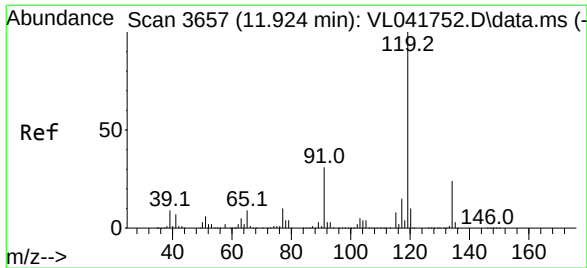
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.503 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 95 Resp: 150705
Ion Ratio Lower Upper
95 100
174 59.0 47.6 71.4
175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 9.569 ppbv

RT: 11.927 min Scan# 3657

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

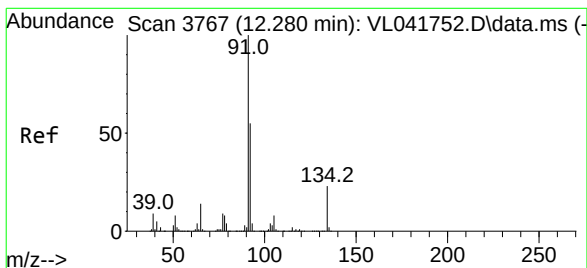
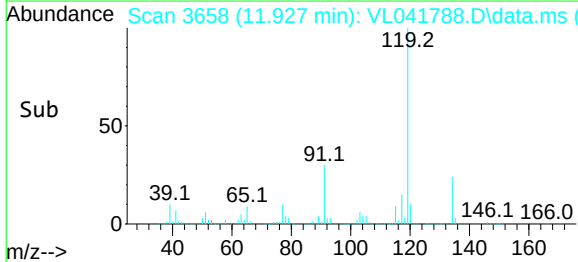
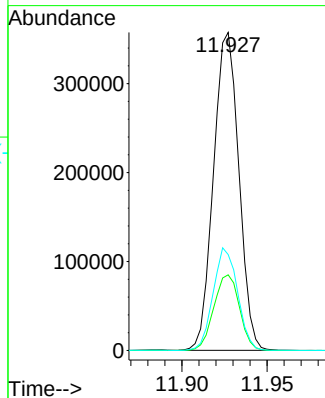
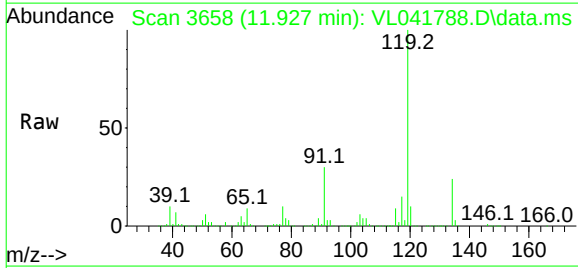
VSTDCCC010

Tgt Ion:	119	Resp:	369746
Ion	Ratio	Lower	Upper
119	100		
134	24.2	19.6	29.4
91	31.4	24.4	36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#70

n-Butylbenzene

Concen: 9.999 ppbv

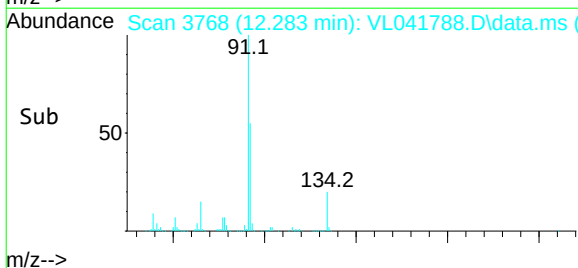
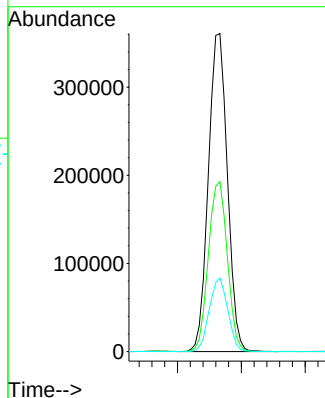
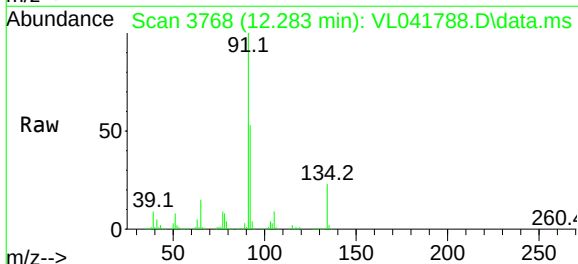
RT: 12.283 min Scan# 3768

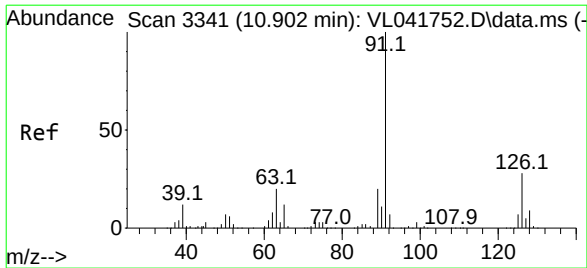
Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

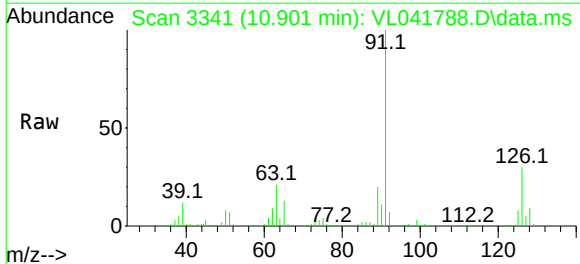
Tgt Ion:	91	Resp:	373294
Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.2	64.8
134	22.5	18.2	27.4





#71
2-Chlorotoluene
Concen: 9.240 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

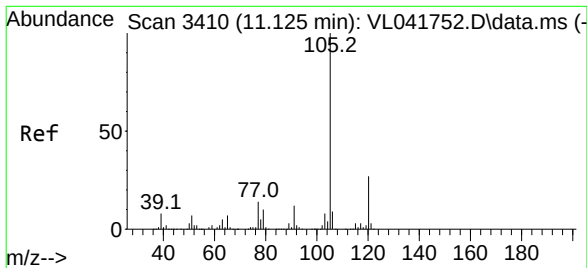
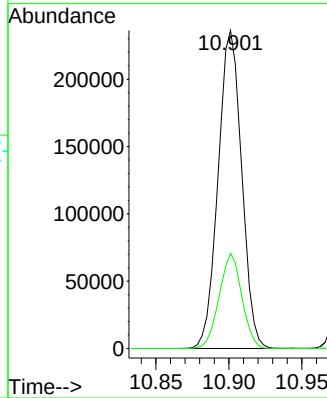
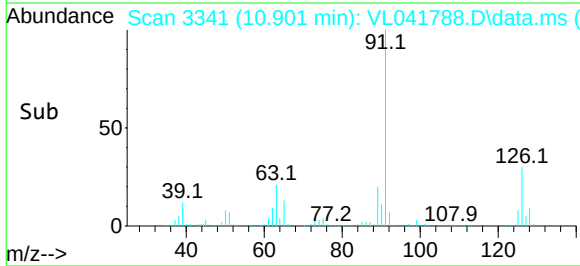
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 91 Resp: 264866
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4

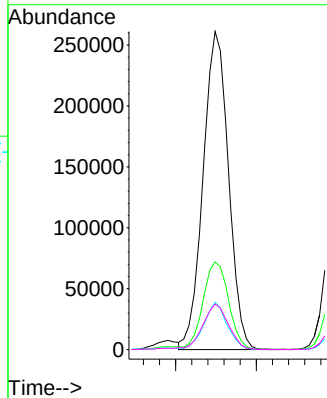
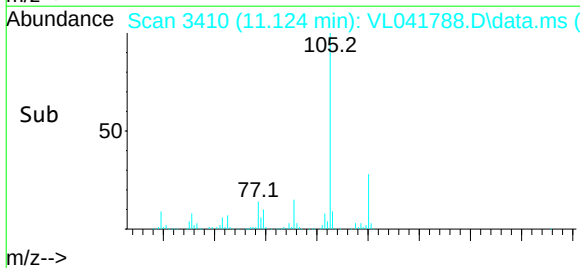
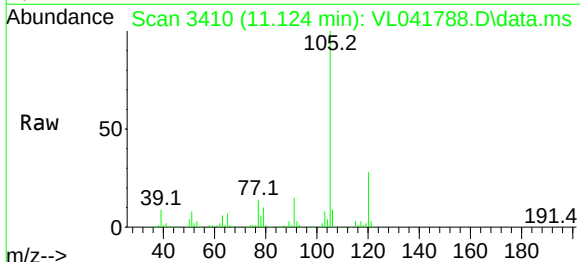
Manual Integrations
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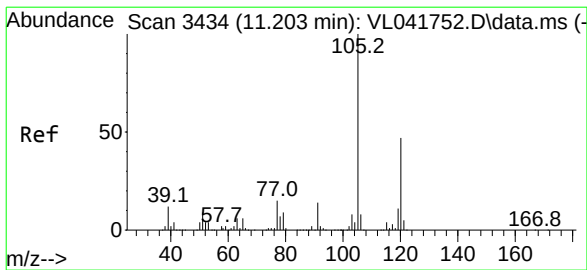
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#72
4-Ethyltoluene
Concen: 9.676 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:105 Resp: 285469
Ion Ratio Lower Upper
105 100
120 28.7 23.3 34.9
91 14.4 10.9 16.3
77 14.8 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 9.918 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 242783

Ion Ratio Lower Upper

105 100

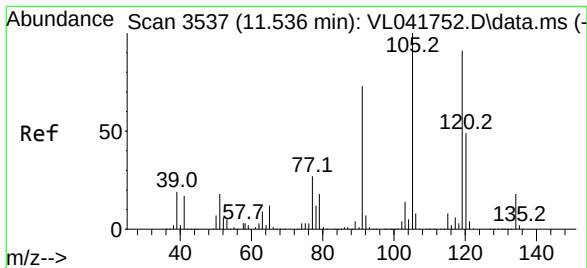
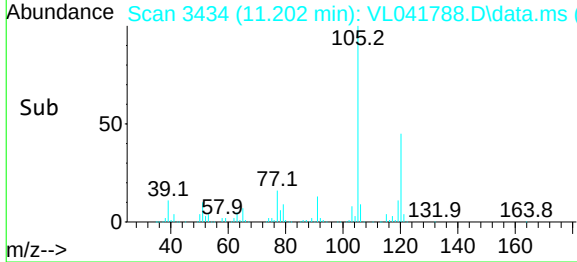
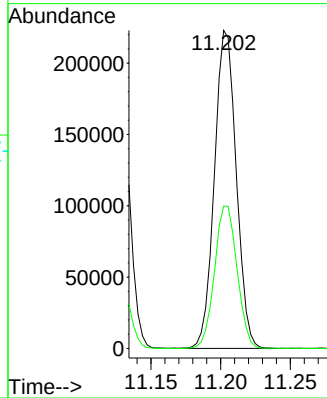
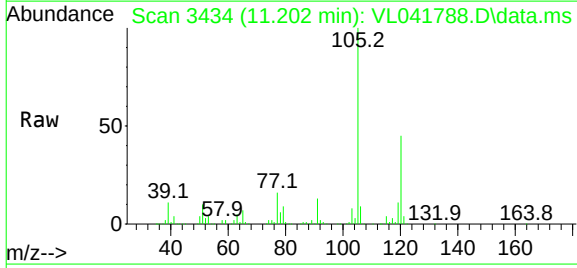
120 44.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#74

1,2,4-Trimethylbenzene

Concen: 10.003 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion:105 Resp: 263301

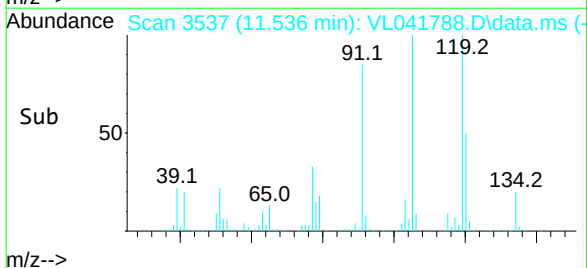
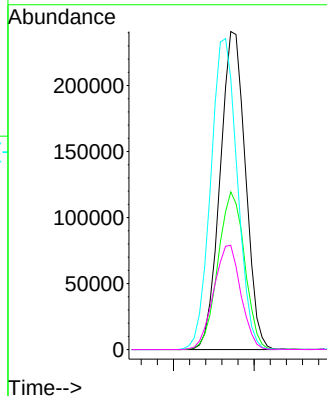
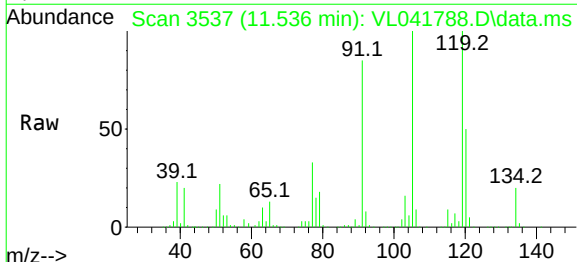
Ion Ratio Lower Upper

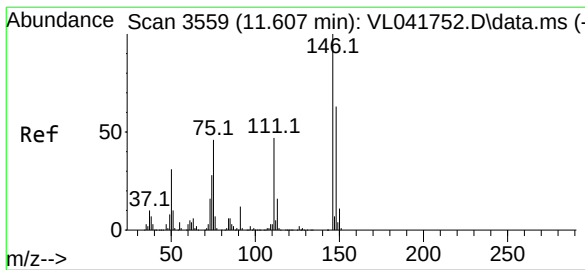
105 100

120 49.6 39.0 58.4

91 85.2 58.1 87.1

77 32.7 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 9.227 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

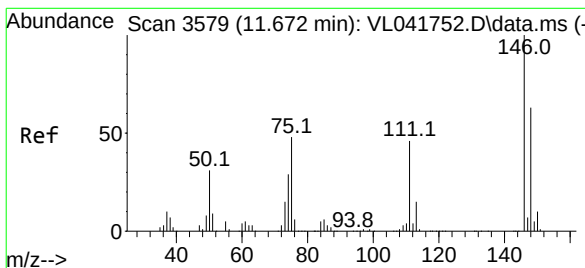
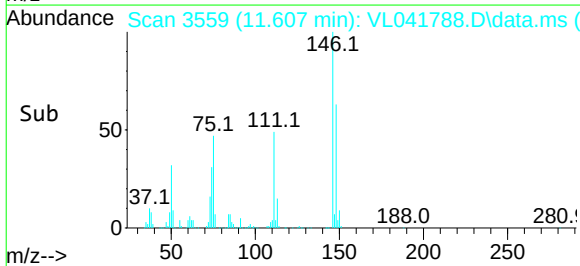
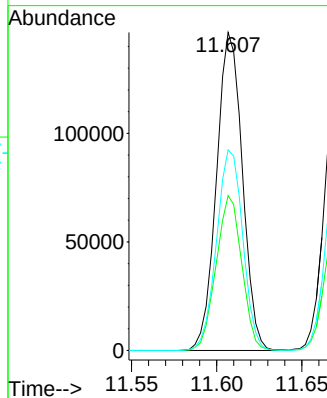
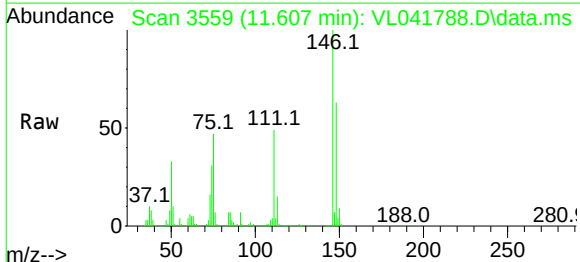
VSTDCCC010

Tgt Ion:	146	Resp:	154857
Ion Ratio	Lower	Upper	
146	100		
111	48.3	23.4	70.3
148	64.0	31.6	95.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#76

1,4-Dichlorobenzene

Concen: 9.296 ppbv

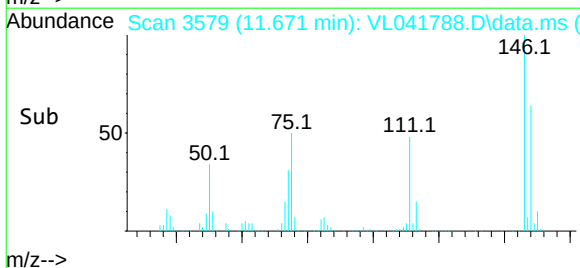
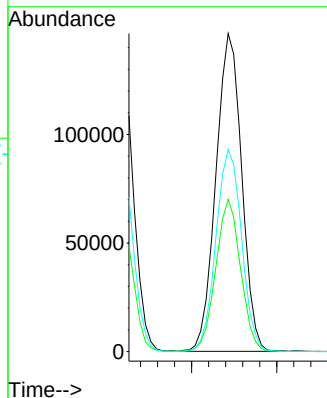
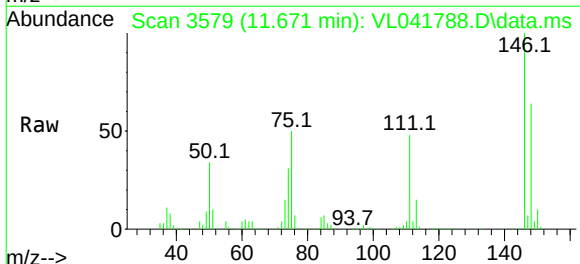
RT: 11.671 min Scan# 3579

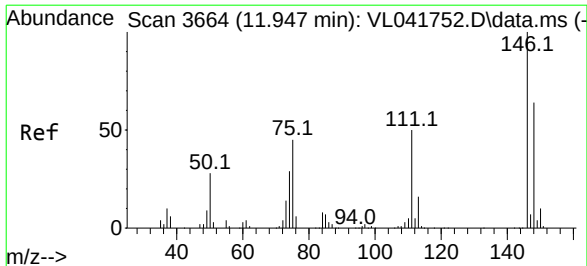
Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

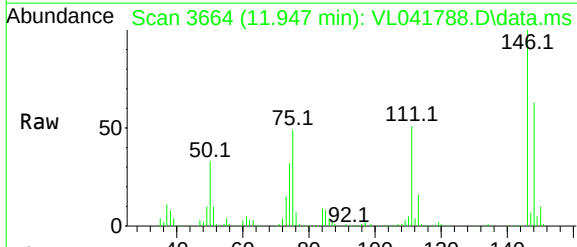
Tgt Ion:	146	Resp:	154115
Ion Ratio	Lower	Upper	
146	100		
111	46.1	22.7	68.1
148	63.5	31.4	94.0





#77
1,2-Dichlorobenzene
Concen: 9.002 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

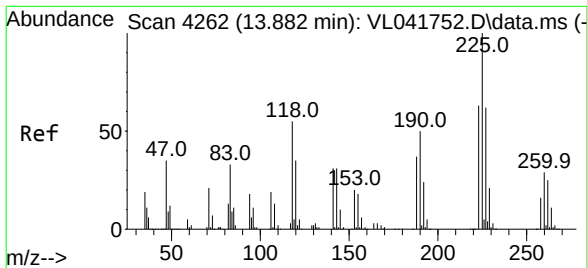
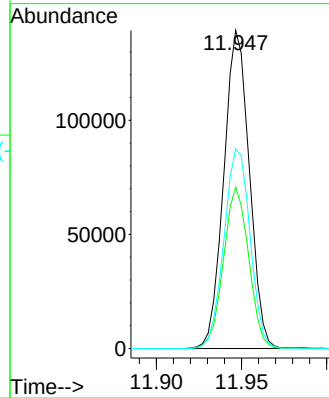
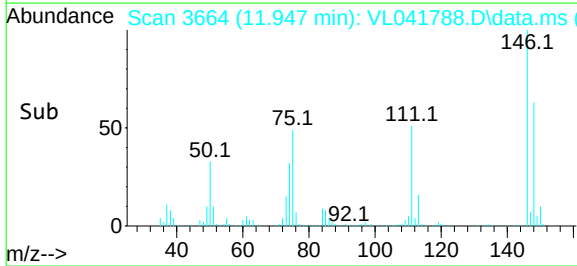
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



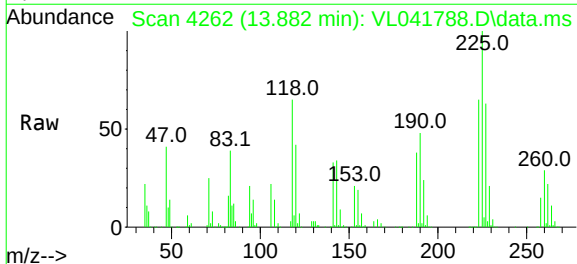
Tgt Ion:146 Resp: 145375
Ion Ratio Lower Upper
146 100
111 50.2 24.8 74.3
148 64.4 31.8 95.4

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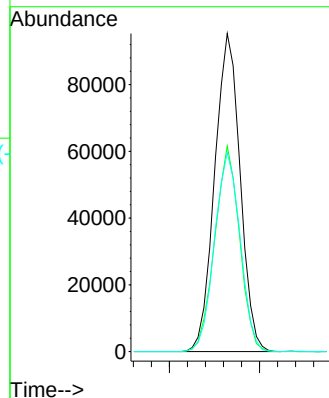
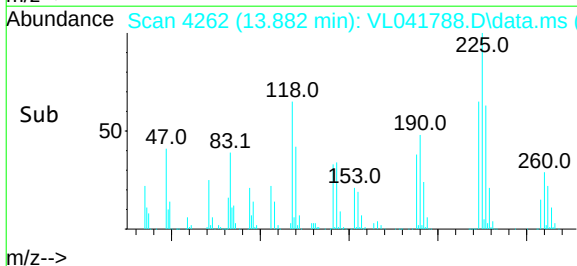
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

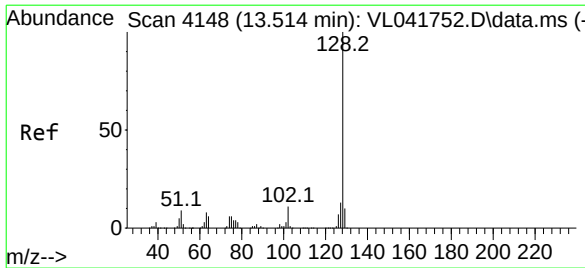


#78
Hexachloro-1,3-Butadiene
Concen: 7.804 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



Tgt Ion:225 Resp: 93437
Ion Ratio Lower Upper
225 100
223 62.8 50.5 75.7
227 63.0 50.3 75.5





#79

Naphthalene

Concen: 10.921 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

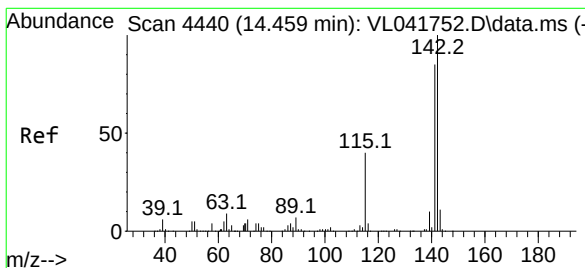
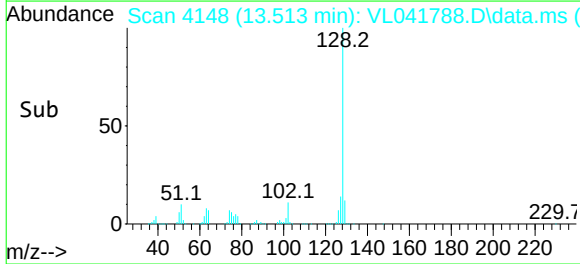
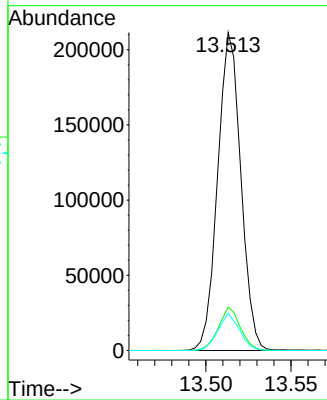
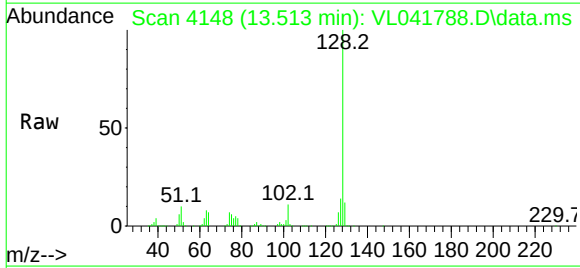
VSTDCCC010

Tgt Ion:	128	Resp:	200311
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.7	16.1
129	11.7	8.2	12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#80

Naphthalene, 2-methyl-

Concen: 16.728 ppbv

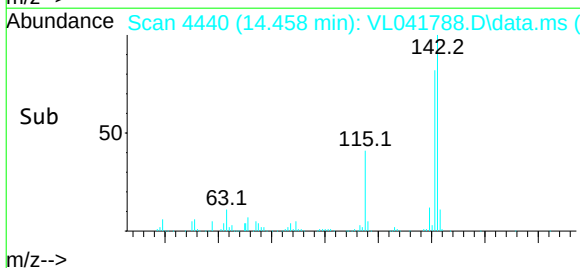
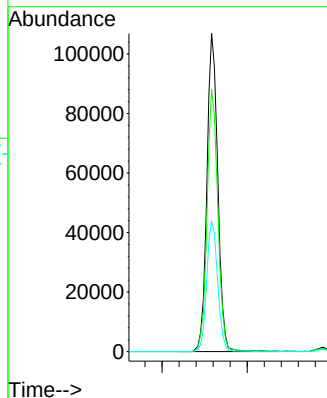
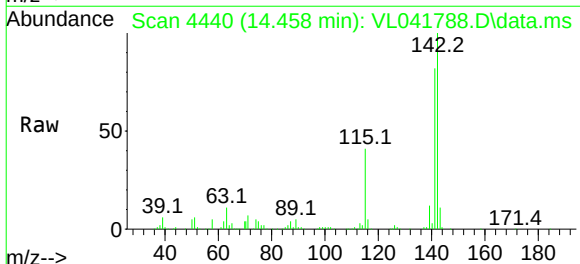
RT: 14.458 min Scan# 4440

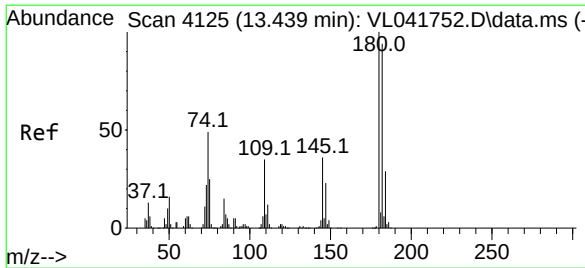
Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

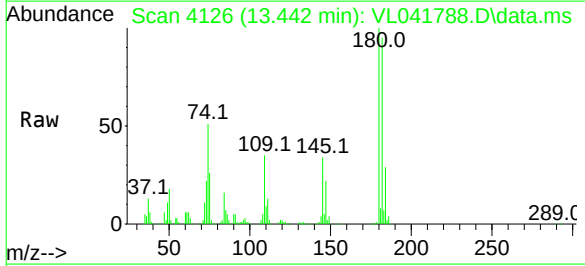
Tgt Ion:	142	Resp:	94903
Ion	Ratio	Lower	Upper
142	100		
141	81.8	68.4	102.6
115	41.3	32.5	48.7





#81
1,2,4-Trichlorobenzene
Concen: 9.346 ppbv
RT: 13.442 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

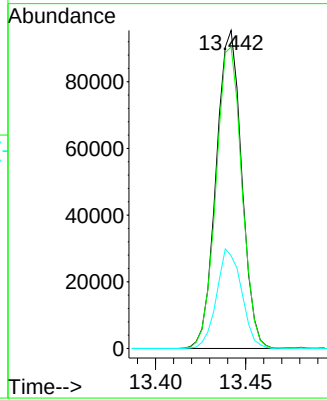
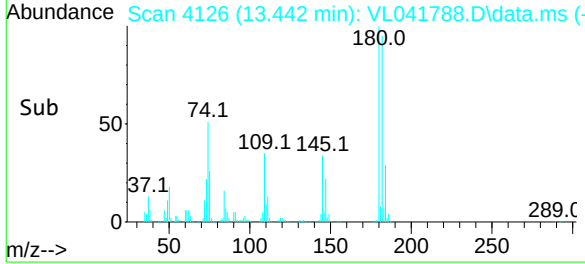
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:	180	Resp:	93675
Ion Ratio	Lower	Upper	
180	100		
182	96.0	77.0	115.6
184	30.8	23.8	35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041788.D
 Acq On : 18 Dec 2024 10:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	111	0.00
2 T	Dichlorodifluoromethane	1.779	1.484	16.6	98	0.00
3	Chlorodifluoromethane	1.631	1.474	9.6	104	0.00
4	Chloromethane	0.696	0.637	8.5	112	0.00
5 T	Vinyl Chloride	0.701	0.613	12.6	109	0.00
6 T	Bromomethane	0.331	0.292	11.8	110	0.00
7	Chloroethane	0.272	0.253	7.0	110	0.00
8 T	Dichlorotetrafluoroethane	1.593	1.468	7.8	111	0.00
9 T	Propene	0.707	0.545	22.9	95	0.00
10 T	Heptane	1.816	1.468	19.2	95	0.00
11 T	Trichlorofluoromethane	1.890	1.767	6.5	109	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.437	1.269	11.7	105	0.00
13	Ethanol	0.059	0.043#	27.1	132	0.00
14 T	Bromoethene	0.485	0.436	10.1	102	0.00
15 T	Acetone	1.946	1.464	24.8	111	0.00
16 T	1,3-Butadiene	0.766	0.701	8.5	113	0.00
17	tert-Butyl alcohol	1.930	1.782	7.7	108	0.00
18 T	1,1-Dichloroethene	0.603	0.542	10.1	106	0.00
19 T	Isopropyl Alcohol	1.167	0.853	26.9	110	0.00
20 T	Methylene Chloride	0.555	0.469	15.5	109	0.00
21 T	Allyl Chloride	1.055	0.979	7.2	107	0.00
22 T	trans-1,2-Dichloroethene	0.690	0.596	13.6	103	0.00
23 T	Vinyl Acetate	0.903	0.693	23.3	97	0.00
24 T	1,1-Dichloroethane	1.396	1.260	9.7	107	0.00
25 T	Ethyl Acetate	3.620	3.140	13.3	101	0.00
26 T	Hexane	1.374	1.152	16.2	98	0.00
27 T	Carbon Disulfide	1.238	1.122	9.4	92	0.00
28 T	Methyl tert-Butyl Ether	1.114	0.894	19.7	90	0.00
29 T	Chloroform	2.093	1.914	8.6	108	0.00
30 T	Cyclohexane	1.169	0.978	16.3	99	0.00
31 T	cis-1,2-Dichloroethene	1.419	1.216	14.3	101	0.00
32 T	1,1,1-Trichloroethane	2.128	1.894	11.0	104	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
34 T	2-Butanone	0.805	0.703	12.7	103	0.00
35 T	Carbon Tetrachloride	0.710	0.745	-4.9	106	0.00
36 T	Benzene	1.034	0.898	13.2	99	0.00
37 T	1,2-Dichloroethane	0.644	0.612	5.0	109	0.00
38 T	Trichloroethene	0.439	0.354	19.4	98	0.00
39 T	1,2-Dichloropropane	0.374	0.323	13.6	99	0.00
40 T	1,4-Dioxane	0.183	0.153	16.4	99	0.00
41 T	Tetrahydrofuran	0.451	0.377	16.4	95	0.00
42 T	Bromodichloromethane	0.740	0.710	4.1	99	0.00
43	Methyl Methacrylate	0.394	0.351	10.9	96	0.00
44 T	2,2,4-Trimethylpentane	1.767	1.524	13.8	98	0.00
45 T	t-1,3-Dichloropropene	0.408	0.351	14.0	90	0.00
46 T	cis-1,3-Dichloropropene	0.518	0.450	13.1	91	0.00
47 T	1,1,2-Trichloroethane	0.391	0.341	12.8	100	0.00
48 T	Dibromochloromethane	0.534	0.514	3.7	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041788.D
 Acq On : 18 Dec 2024 10:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	0.437	0.422	3.4	91	0.00
50 T	4-Methyl-2-Pentanone	1.095	0.942	14.0	96	0.00
51 T	2-Hexanone	0.888	0.752	15.3	95	0.00
52 T	Tetrachloroethene	0.385	0.301	21.8	95	0.00
53 T	Toluene	1.173	0.984	16.1	95	0.00
54 T	1,2-Dibromoethane	0.538	0.475	11.7	100	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
56	1,1,1,2-Tetrachloroethane	0.530	0.510	3.8	101	0.00
57 T	Chlorobenzene	1.023	0.912	10.9	101	0.00
58 T	Ethyl Benzene	1.800	1.634	9.2	97	0.00
59 T	m/p-Xylene	1.448	1.355	6.4	101	0.00
60 T	o-Xylene	1.452	1.348	7.2	100	0.00
61 T	Styrene	0.628	0.599	4.6	94	0.00
62	Isopropylbenzene	2.181	2.049	6.1	101	0.00
63 T	1,1,2,2-Tetrachloroethane	0.909	0.837	7.9	105	0.00
64	n-propylbenzene	0.551	0.523	5.1	103	0.00
65	tert-Butylbenzene	1.968	1.829	7.1	102	0.00
66 T	Benzyl Chloride	0.173	0.129	25.4	71	0.00
67	sec-Butylbenzene	2.723	2.568	5.7	103	0.00
68 S	1-Bromo-4-Fluorobenzene	0.833	0.875	-5.0	109	0.00
69	p-Isopropyltoluene	2.244	2.147	4.3	102	0.00
70	n-Butylbenzene	2.168	2.168	0.0	104	0.00
71	2-Chlorotoluene	1.665	1.538	7.6	100	0.00
72 T	4-Ethyltoluene	1.713	1.658	3.2	101	0.00
73 T	1,3,5-Trimethylbenzene	1.422	1.410	0.8	101	0.00
74 T	1,2,4-Trimethylbenzene	1.529	1.529	0.0	103	0.00
75 T	1,3-Dichlorobenzene	0.975	0.899	7.8	102	0.00
76 T	1,4-Dichlorobenzene	0.963	0.895	7.1	101	0.00
77 T	1,2-Dichlorobenzene	0.938	0.844	10.0	103	0.00
78 T	Hexachloro-1,3-Butadiene	0.695	0.543	21.9	98	0.00
79 T	Naphthalene	1.065	1.163	-9.2	97	0.00
80 T	Naphthalene,2-methyl-	0.329	0.551	-67.5#	89	0.00
81 T	1,2,4-Trichlorobenzene	0.582	0.544	6.5	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



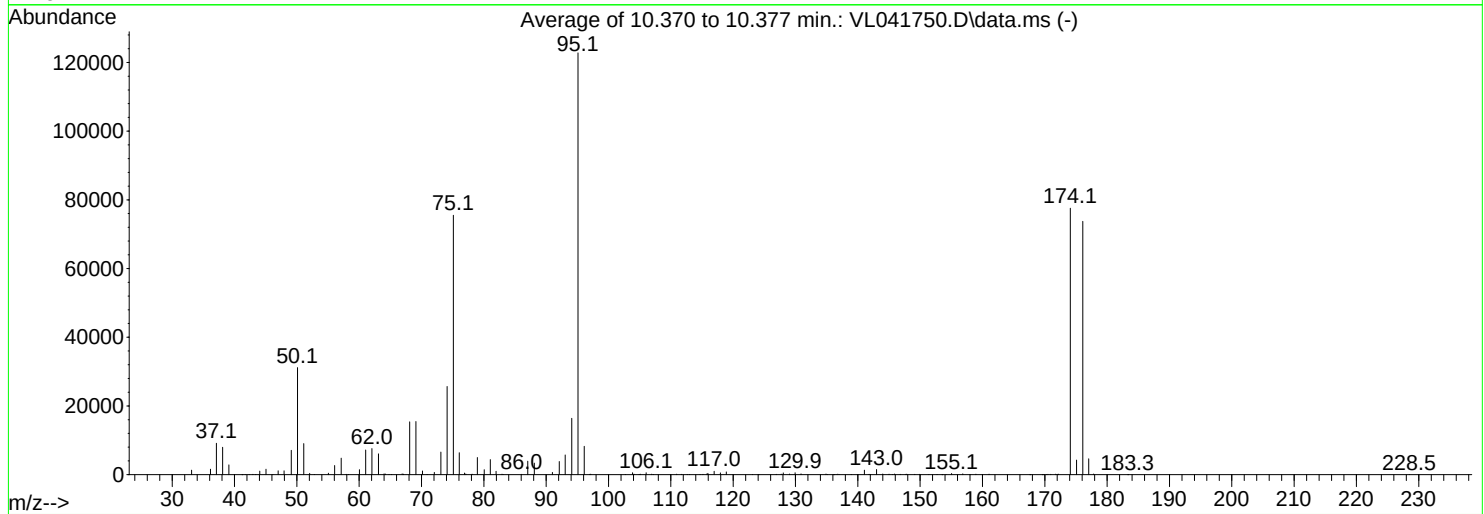
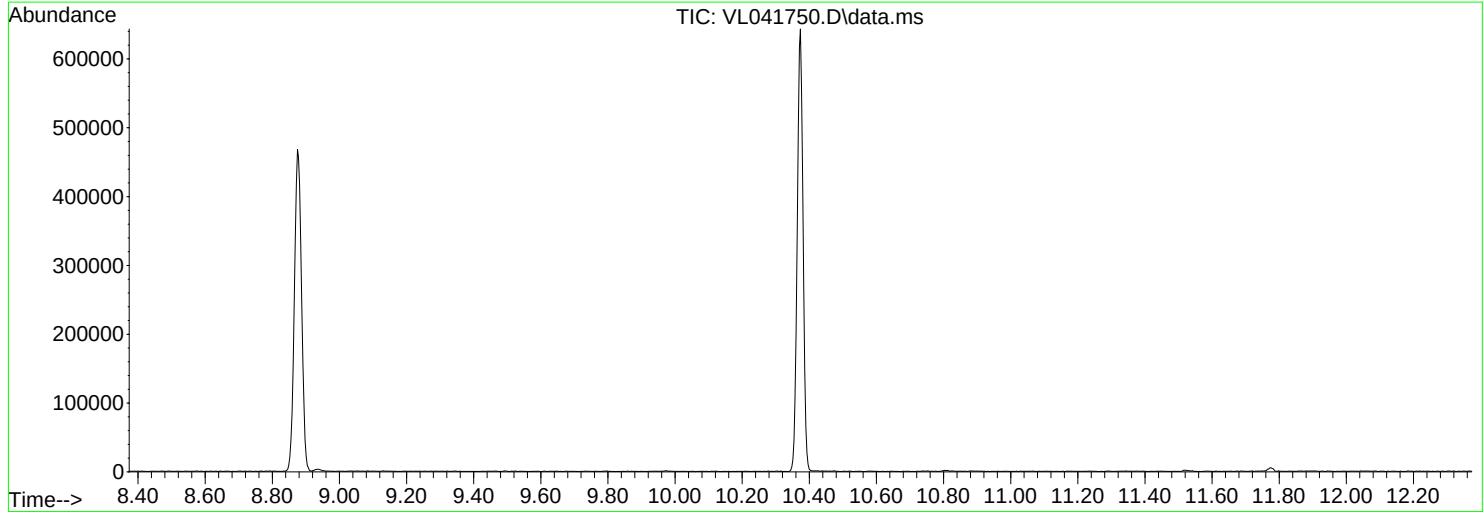
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041750.D
Acq On : 16 Dec 2024 12:02
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\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

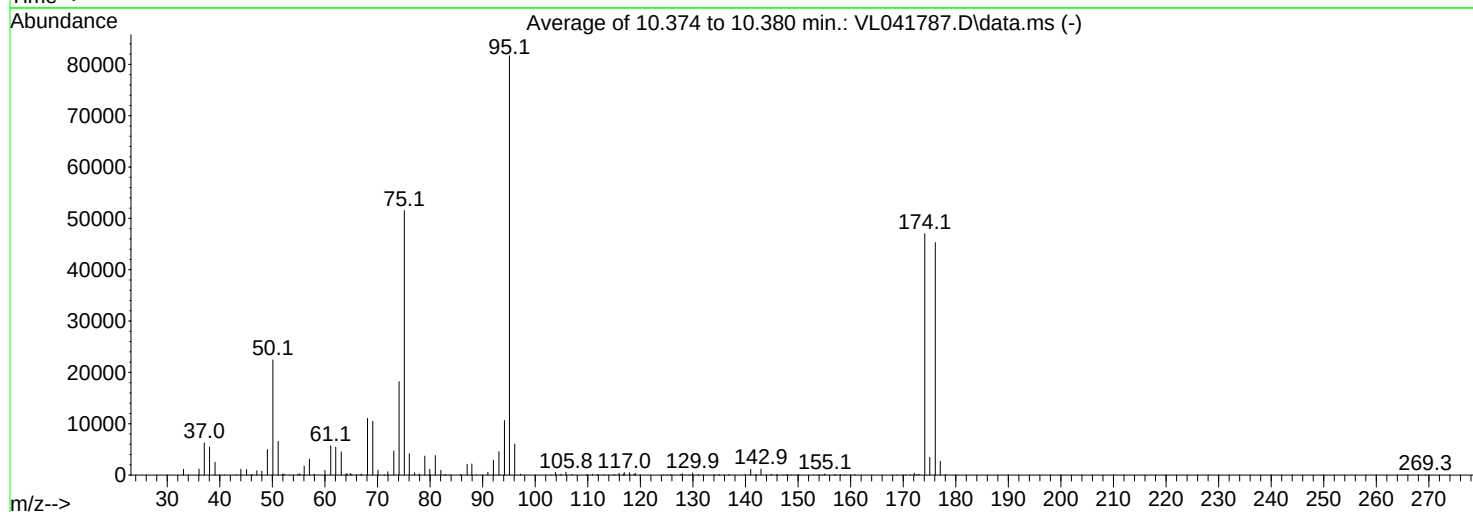
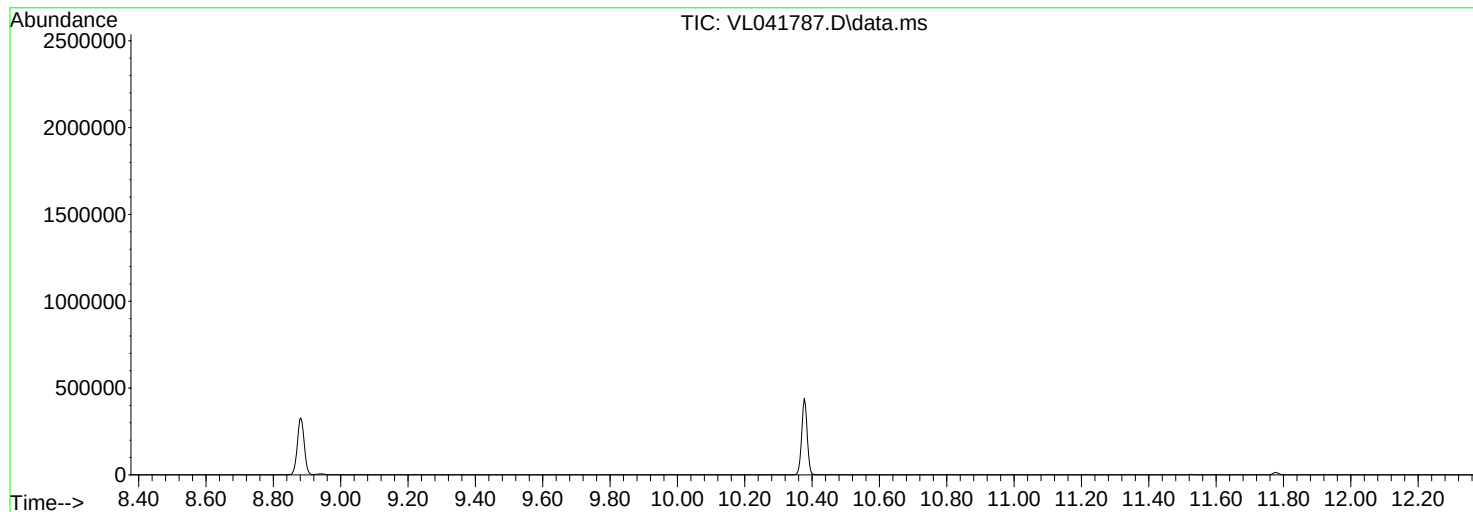
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	25.4	31157	PASS
75	95	30	66	61.5	75504	PASS
95	95	100	100	100.0	122797	PASS
96	95	5	9	6.7	8239	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.2	77565	PASS
175	174	4	9	5.5	4234	PASS
176	174	93	101	95.0	73717	PASS
177	176	5	9	6.3	4630	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041787.D
Acq On : 18 Dec 2024 08:06
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\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.5	22445	PASS
75	95	30	66	63.1	51533	PASS
95	95	100	100	100.0	81685	PASS
96	95	5	9	7.4	6040	PASS
173	174	0.00	2	0.4	189	PASS
174	95	50	120	57.6	47024	PASS
175	174	4	9	7.3	3435	PASS
176	174	93	101	96.3	45299	PASS
177	176	5	9	5.9	2683	PASS

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABL02	SDG No.:	P5293
Lab Sample ID:	VL1218ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041790.D	1		12/18/24 12:28	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	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	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	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
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABL02	SDG No.:	P5293
Lab Sample ID:	VL1218ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041790.D	1		12/18/24 12:28	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	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	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	70200		2.793			
540-36-3	1,4-Difluorobenzene	175000		3.965			
3114-55-4	Chlorobenzene-d5	151000		8.891			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABL02	SDG No.:	P5293
Lab Sample ID:	VL1218ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041790.D	1		12/18/24 12:28	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL121824\
 Data File : VL041790.D
 Acq On : 18 Dec 2024 12:28
 Operator : SY/MD
 Sample : VL1218ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABL02

Quant Time: Dec 19 07:52:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	70249	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	175356	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	151060	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	127683	10.143	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

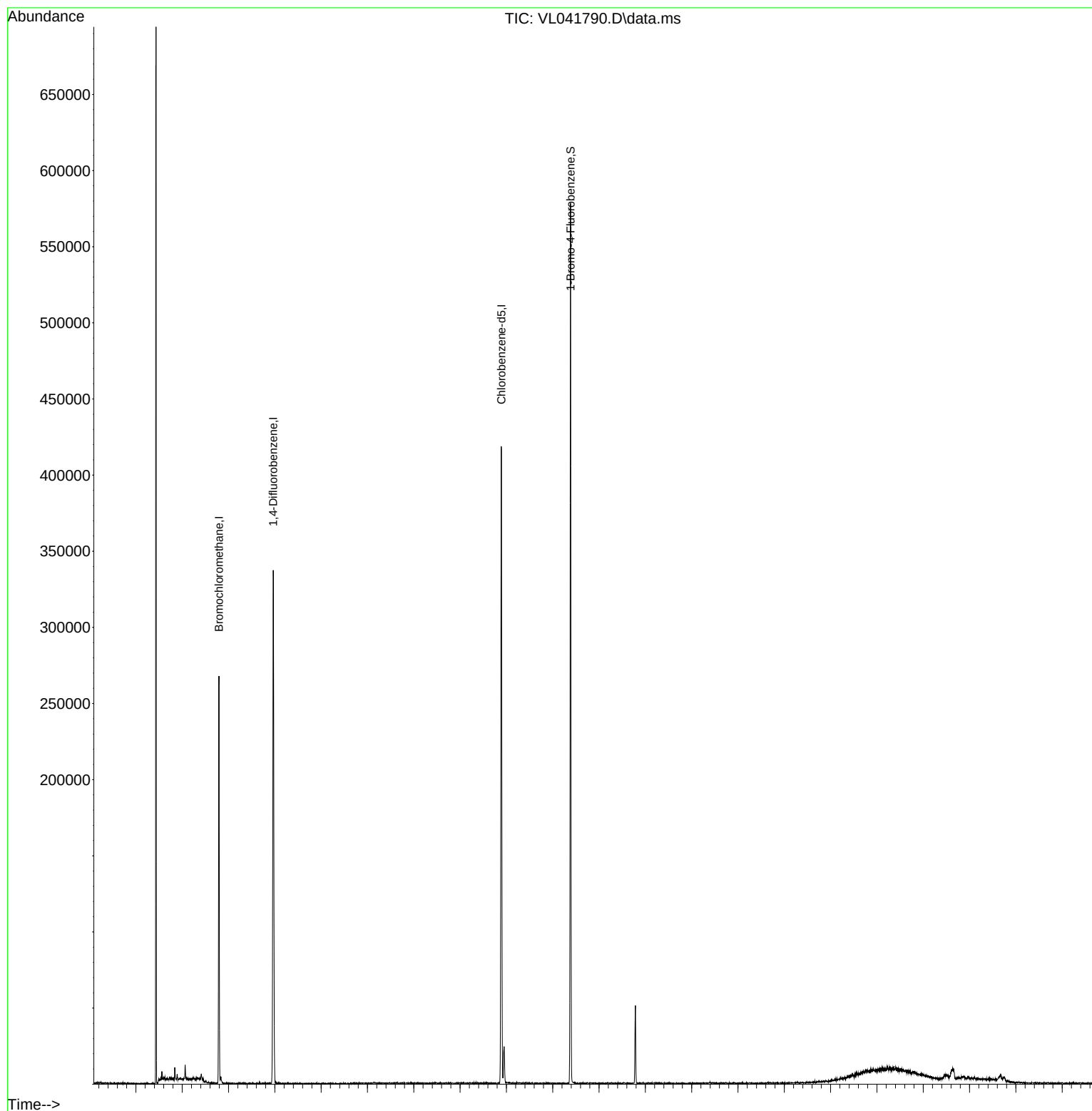
Target Compounds	Qvalue

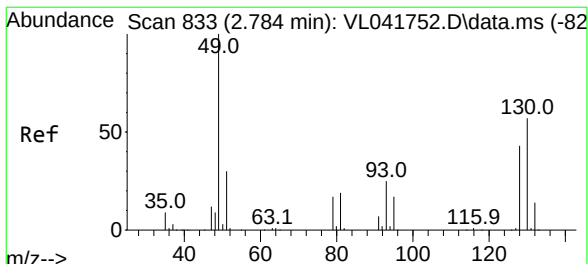
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041790.D
Acq On : 18 Dec 2024 12:28
Operator : SY/MD
Sample : VL1218ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABL02

Quant Time: Dec 19 07:52:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

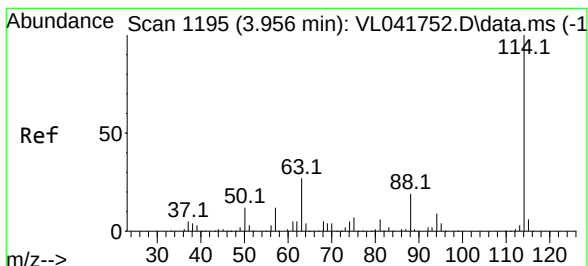
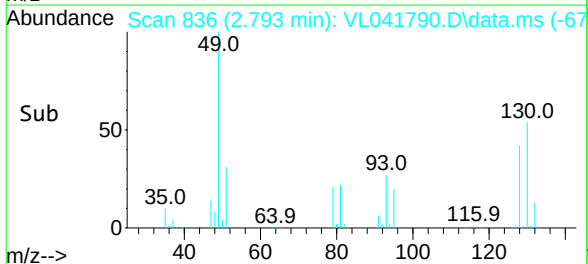
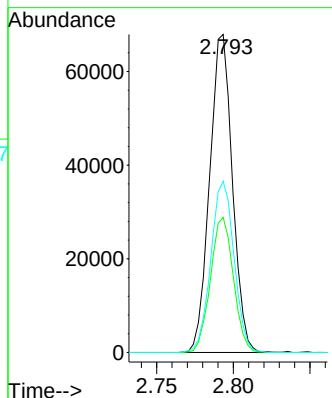
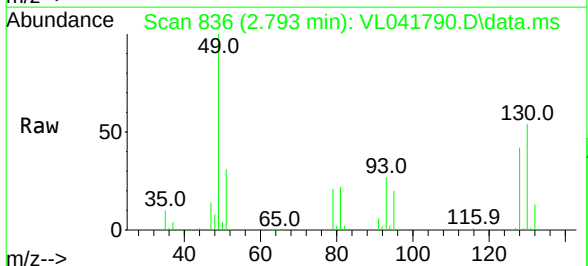




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 83
 Delta R.T. 0.009 min
 Lab File: VL041790.D
 Acq: 18 Dec 2024 12:28

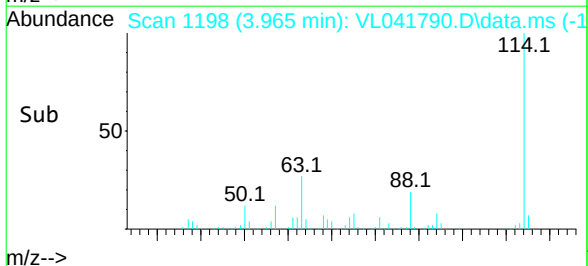
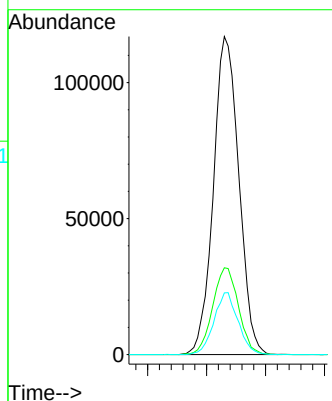
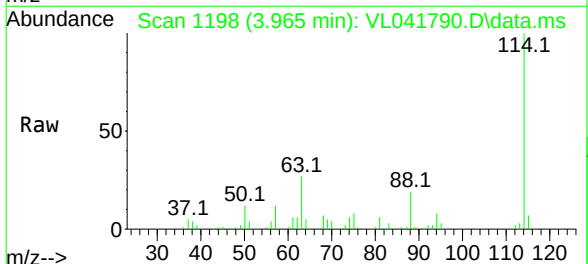
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABL02

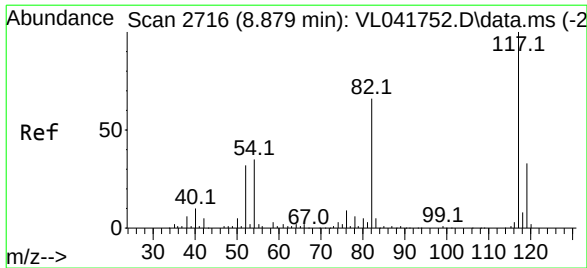
Tgt Ion:	49	Resp:	70249
Ion	Ratio	Lower	Upper
49	100		
128	42.7	21.6	64.6
130	55.0	28.3	85.0



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.009 min
 Lab File: VL041790.D
 Acq: 18 Dec 2024 12:28

Tgt Ion:	114	Resp:	175356
Ion	Ratio	Lower	Upper
114	100		
63	27.7	21.8	32.8
88	18.5	14.8	22.2

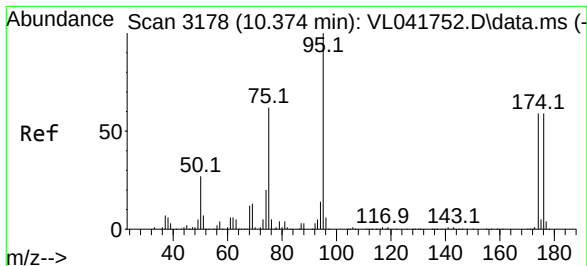
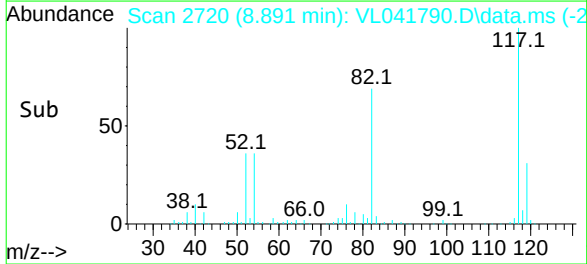
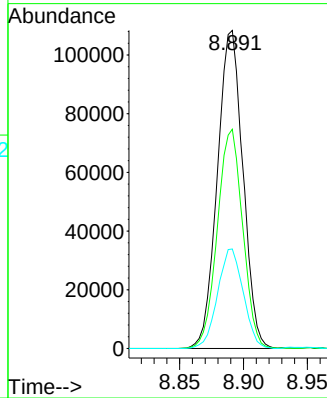
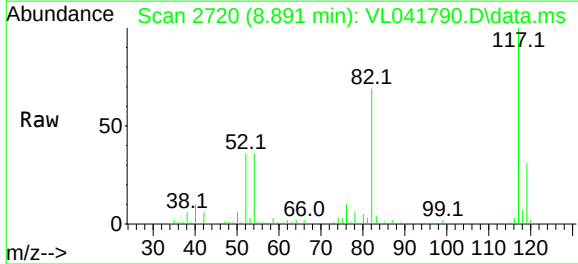




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2716
Delta R.T. 0.013 min
Lab File: VL041790.D
Acq: 18 Dec 2024 12:28

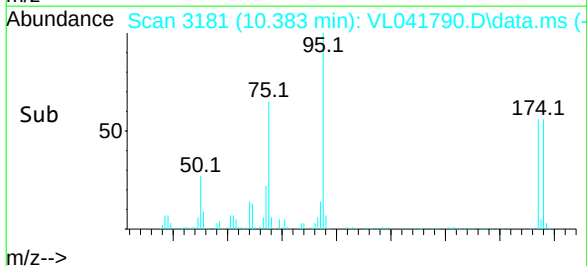
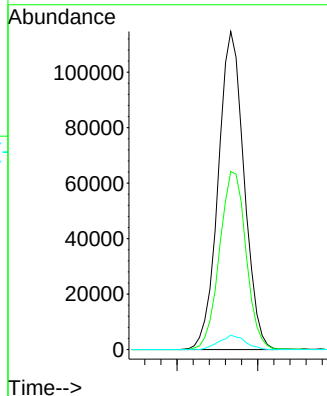
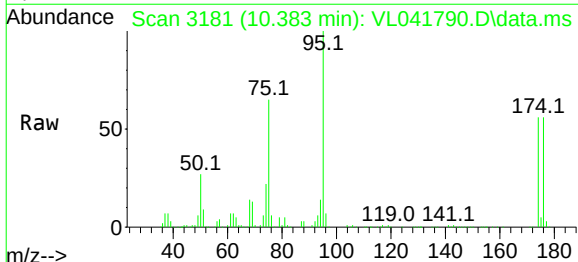
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABL02

Tgt Ion:117 Resp: 151060
Ion Ratio Lower Upper
117 100
82 68.3 53.8 80.8
119 31.4 26.7 40.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.143 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.009 min
Lab File: VL041790.D
Acq: 18 Dec 2024 12:28

Tgt Ion: 95 Resp: 127683
Ion Ratio Lower Upper
95 100
174 57.4 47.6 71.4
175 4.6 3.7 5.5



Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABS01	SDG No.:	P5293
Lab Sample ID:	VL1218ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041795.D	1		12/18/24 16:06	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.70	43.0		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.30	19.2		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.70	22.2		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.80	34.2		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.10	24.0		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	8.10	23.9		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.60	54.0		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.20	70.5		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.50	66.4		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.80	26.7		0.58	1.52	ug/m3
142-82-5	Heptane	8.10	33.2		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.80	34.9		0.56	1.98	ug/m3
67-64-1	Acetone	7.80	18.5		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	8.50	26.5		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	7.90	28.5		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.80	30.6		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.60	34.1		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.10	36.8		0.53	2.02	ug/m3
110-82-7	Cyclohexane	7.80	26.9		0.76	1.72	ug/m3
78-93-3	2-Butanone	8.50	25.1		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.9	68.6		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.00	31.7		0.36	1.98	ug/m3
67-66-3	Chloroform	9.20	44.9		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.80	48.0		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	8.80	41.1		0.47	2.34	ug/m3
71-43-2	Benzene	8.70	27.8		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.60	38.9		0.36	2.02	ug/m3
79-01-6	Trichloroethene	7.90	42.5		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	8.50	39.3		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	9.80	65.7		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.80	36.1		0.37	2.05	ug/m3
108-88-3	Toluene	8.30	31.3		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	7.90	35.9		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	7.80	35.4		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.10	49.6		0.38	2.73	ug/m3

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABS01	SDG No.:	P5293
Lab Sample ID:	VL1218ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041795.D	1		12/18/24 16:06	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	9.90	84.3		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.20	70.7		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	7.70	52.2		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	9.40	43.3		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	9.30	40.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	19.7	85.6		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.90	43.0		0.52	2.17	ug/m3
100-42-5	Styrene	9.50	40.5		0.47	2.13	ug/m3
75-25-2	Bromoform	10.1	104		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.80	67.3		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.60	49.7		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.6	52.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.7	52.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.80	58.9		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.90	59.5		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.90	59.5		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.60	71.3		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.00	85.3		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.50	21.0		0.29	1.11	ug/m3
91-20-3	Naphthalene	11.2	58.7		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.1	49.6		0.59	2.46	ug/m3
110-54-3	Hexane	8.20	28.9		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.90	27.9		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.60	31.0		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	8.40	34.4		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135	108%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	72600		2.797			
540-36-3	1,4-Difluorobenzene	183000		3.972			
3114-55-4	Chlorobenzene-d5	159000		8.898			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABS01	SDG No.:	P5293
Lab Sample ID:	VL1218ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041795.D	1		12/18/24 16:06	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL121824\
 Data File : VL041795.D
 Acq On : 18 Dec 2024 16:06
 Operator : SY/MD
 Sample : VL1218ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

Quant Time: Dec 19 07:55:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/19/2024
 Supervised By : Mahesh Dadoda 12/19/2024

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

Internal Standards						
1) Bromochloromethane	2.797	49	72600	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.972	114	183255	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	159496	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	143879	10.825	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.300%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	112657	8.721	ppbv	99
3) Chlorodifluoromethane	1.479	51	102210	8.633	ppbv	97
4) Chloromethane	1.538	50	46901	9.279	ppbv	100
5) Vinyl Chloride	1.583	62	44104	8.661	ppbv	98
6) Bromomethane	1.674	94	21119	8.788	ppbv	99
7) Chloroethane	1.709	64	18047	9.123	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	110410	9.549	ppbv	93
9) Propene	1.486	41	35133	6.846	ppbv	98
10) Heptane	5.001	43	106572	8.085	ppbv	100
11) Trichlorofluoromethane	1.884	101	132171	9.632	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96243	9.222	ppbv	95
13) Ethanol	1.725	45	2865	6.742	ppbv	98
14) Bromoethene	1.787	108	30065	8.533	ppbv	96
15) Acetone	1.842	43	110277	7.807	ppbv	97
16) 1,3-Butadiene	1.612	39	52562	9.450	ppbv	92
17) tert-Butyl alcohol	2.046	59	122872	8.768	ppbv	100
18) 1,1-Dichloroethene	2.039	96	38415	8.780	ppbv	80
19) Isopropyl Alcohol	1.890	45	59665	7.039	ppbv #	37
20) Methylene Chloride	2.068	84	35310	8.766	ppbv	94
21) Allyl Chloride	2.104	41	68525	8.945	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	42821	8.550	ppbv	98
23) Vinyl Acetate	2.470	43	43463	6.627	ppbv	97
24) 1,1-Dichloroethane	2.418	63	92680	9.142	ppbv	99
25) Ethyl Acetate	2.845	43	223419	8.502	ppbv	99
26) Hexane	2.835	57	81413	8.164	ppbv	93
27) Carbon Disulfide	2.159	76	76433	8.505	ppbv	94
28) Methyl tert-Butyl Ether	2.447	73	64037	7.915	ppbv	99
29) Chloroform	2.858	83	139818	9.200	ppbv	99
30) Cyclohexane	3.871	84	66237	7.806	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	82779	8.033	ppbv	99
32) 1,1,1-Trichloroethane	3.379	97	136055	8.807	ppbv	98
34) 2-Butanone	2.564	43	125687	8.525	ppbv	100
35) Carbon Tetrachloride	3.777	117	141202	10.854	ppbv	97
36) Benzene	3.667	78	164423	8.674	ppbv	98
37) 1,2-Dichloroethane	3.230	62	113600	9.631	ppbv	99
38) Trichloroethene	4.564	130	63280	7.864	ppbv	93
39) 1,2-Dichloropropane	4.331	63	58553	8.541	ppbv	92
40) 1,4-Dioxane	4.599	88	28884	8.624	ppbv #	92
41) Tetrahydrofuran	3.065	42	67017	8.114	ppbv	99
42) Bromodichloromethane	4.509	83	133513	9.839	ppbv	95
43) Methyl Methacrylate	4.897	69	61014	8.448	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	284140	8.777	ppbv	96
45) t-1,3-Dichloropropene	6.438	75	58865	7.879	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041795.D
 Acq On : 18 Dec 2024 16:06
 Operator : SY/MD
 Sample : VL1218ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/19/2024
 Supervised By : Mahesh Dadoda 12/19/2024

Quant Time: Dec 19 07:55:13 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

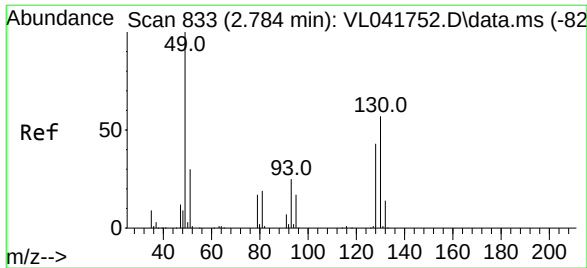
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	74198	7.824	ppbv	89
47) 1,1,2-Trichloroethane	6.603	97	64954	9.071	ppbv	93
48) Dibromochloromethane	7.406	129	96996	9.920	ppbv	99
49) Bromoform	9.500	173	80840	10.100	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	175817	8.759	ppbv	99
51) 2-Hexanone	7.457	43	142403	8.752	ppbv #	96
52) Tetrachloroethene	8.244	164	54531	7.729	ppbv	93
53) Toluene	6.952	91	177625	8.265	ppbv	99
54) 1,2-Dibromoethane	7.671	107	90389	9.161	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.943	131	86262	10.202	ppbv	100
57) Chlorobenzene	8.937	112	153659	9.415	ppbv	99
58) Ethyl Benzene	9.370	91	267795	9.326	ppbv	98
59) m/p-Xylene	9.564	91	455916m	19.747	ppbv	
60) o-Xylene	9.975	91	229919	9.930	ppbv	100
61) Styrene	9.885	104	95536	9.543	ppbv	100
62) Isopropylbenzene	10.552	105	339599	9.762	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	142272	9.817	ppbv	100
64) n-propylbenzene	11.002	120	86896	9.880	ppbv	97
65) tert-Butylbenzene	11.542	119	307835	9.808	ppbv	97
66) Benzyl Chloride	11.626	91	21939	7.936	ppbv	97
67) sec-Butylbenzene	11.778	105	441578	10.167	ppbv	99
69) p-Isopropyltoluene	11.937	119	366111	10.229	ppbv	99
70) n-Butylbenzene	12.293	91	366451	10.597	ppbv	98
71) 2-Chlorotoluene	10.914	91	255490	9.622	ppbv	99
72) 4-Ethyltoluene	11.137	105	277025	10.137	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	240648	10.613	ppbv	100
74) 1,2,4-Trimethylbenzene	11.548	105	260378	10.679	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	152493	9.809	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	152432	9.926	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	148412	9.922	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	88582	7.987	ppbv	100
79) Naphthalene	13.523	128	189506	11.154	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	82155	15.634	ppbv	96
81) 1,2,4-Trichlorobenzene	13.452	180	89052	9.592	ppbv	99

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



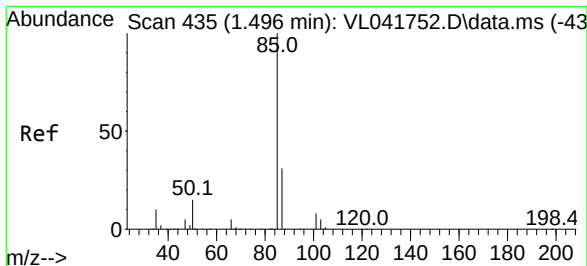
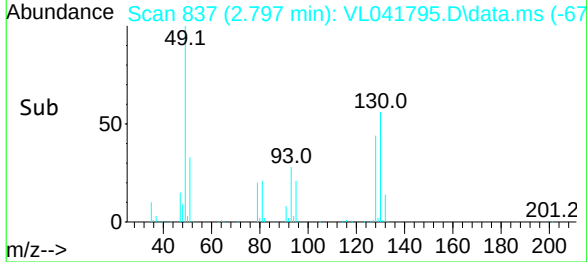
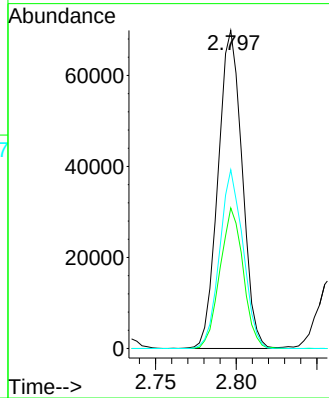
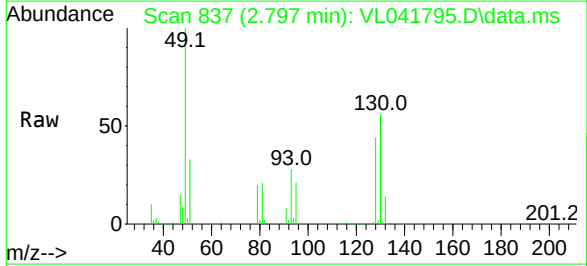
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion:	49	128	130
Ratio	100	42.5	54.6
Lower		21.6	28.3
Upper		64.6	85.0

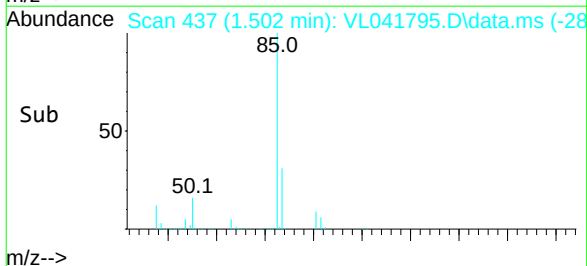
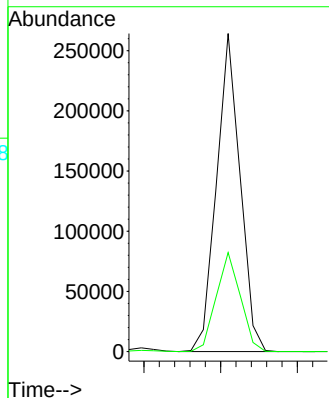
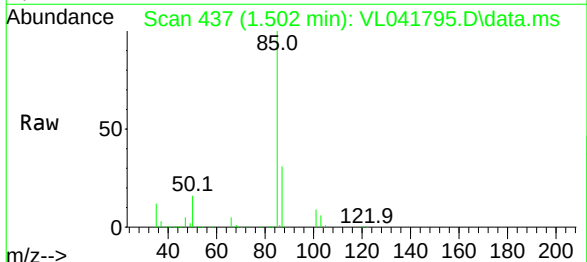
Manual Integrations
APPROVED

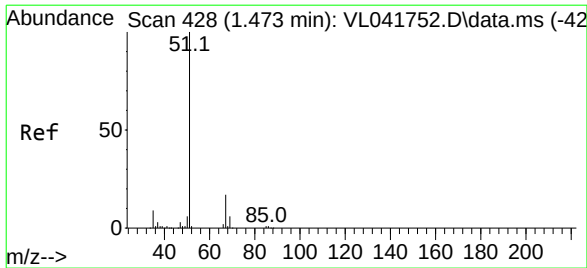
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 8.721 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:	85	87
Ratio	100	31.1
Lower		24.5
Upper		36.7





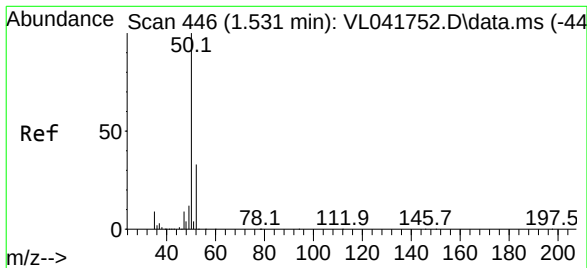
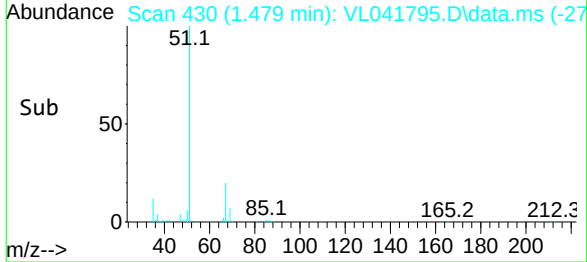
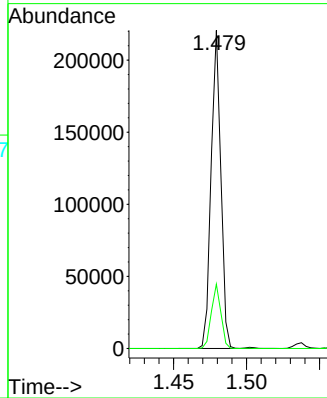
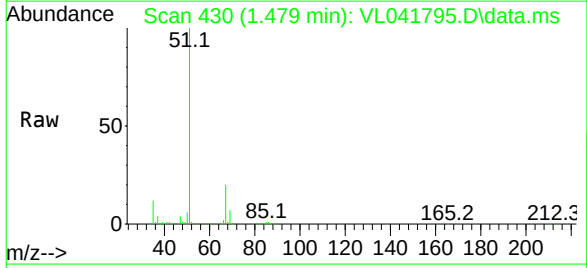
#3
Chlorodifluoromethane
Concen: 8.633 ppbv
RT: 1.479 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 51 Resp: 102210
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.4

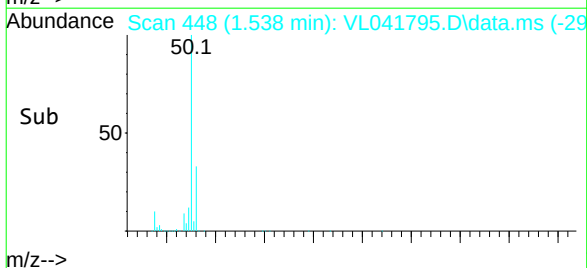
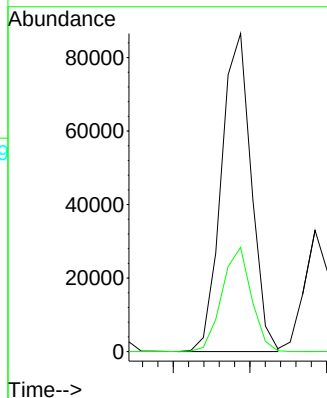
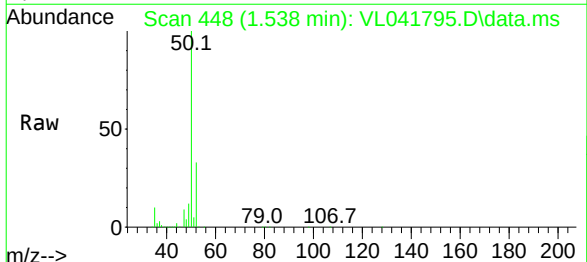
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APPROVED

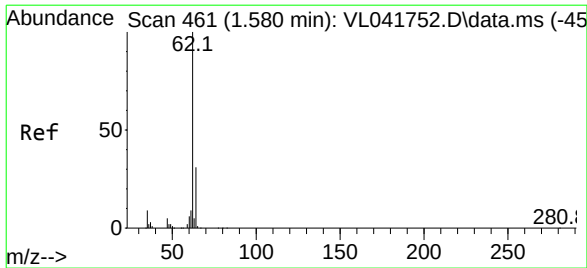
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#4
Chloromethane
Concen: 9.279 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

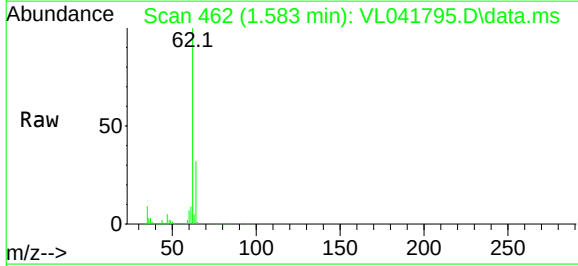
Tgt Ion: 50 Resp: 46901
Ion Ratio Lower Upper
50 100
52 32.7 26.2 39.2





#5
 Vinyl Chloride
 Concen: 8.661 ppbv
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

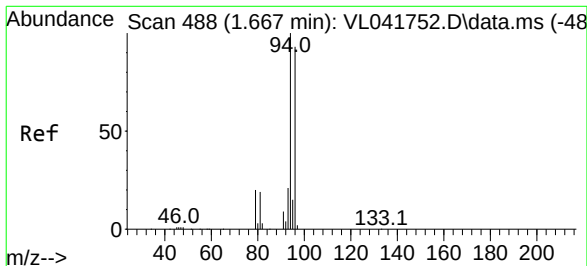
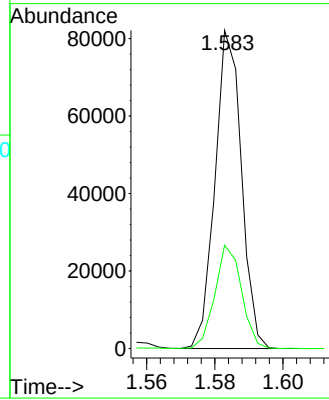
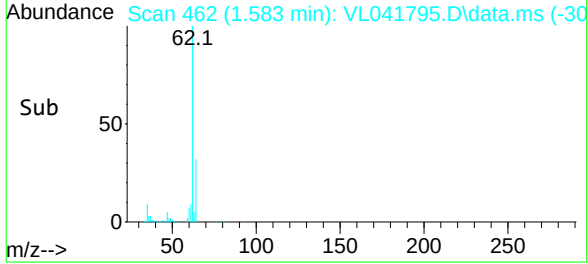
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01



Tgt Ion: 62 Resp: 44104
 Ion Ratio Lower Upper
 62 100
 64 32.5 25.1 37.7

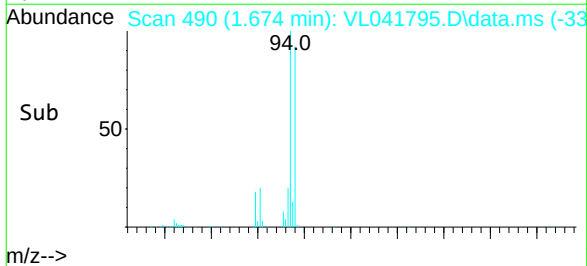
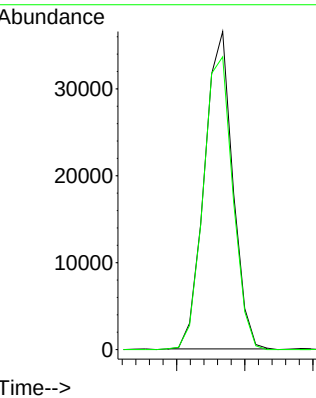
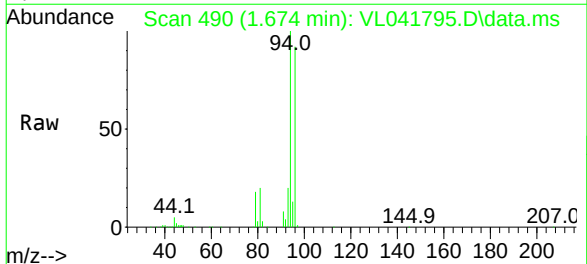
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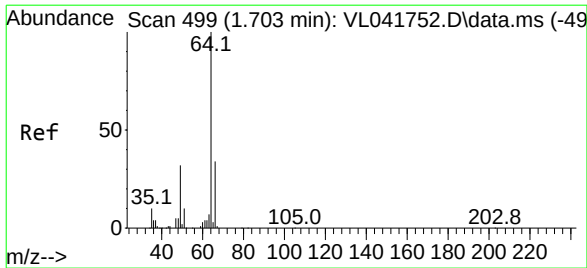
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#6
 Bromomethane
 Concen: 8.788 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.006 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

Tgt Ion: 94 Resp: 21119
 Ion Ratio Lower Upper
 94 100
 96 92.2 74.7 112.1





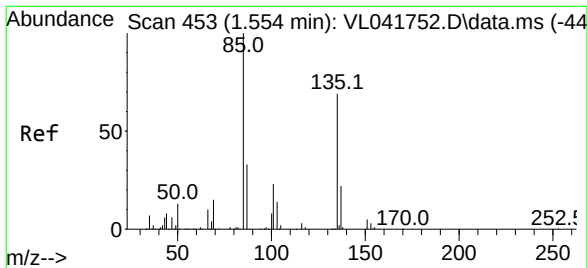
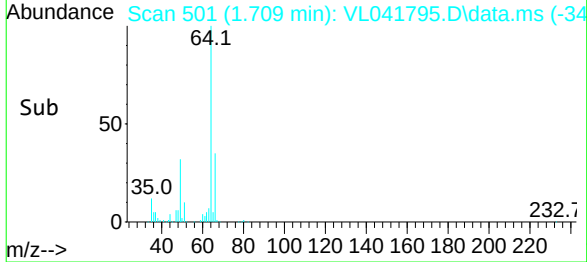
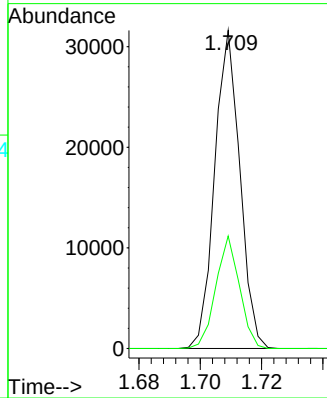
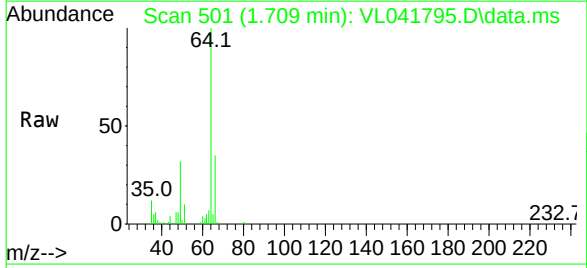
#7
Chloroethane
Concen: 9.123 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 64 Resp: 18047
Ion Ratio Lower Upper
64 100
66 35.4 27.5 41.3

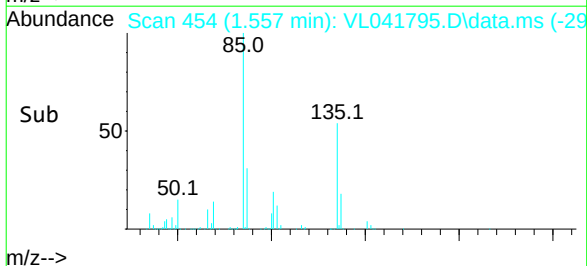
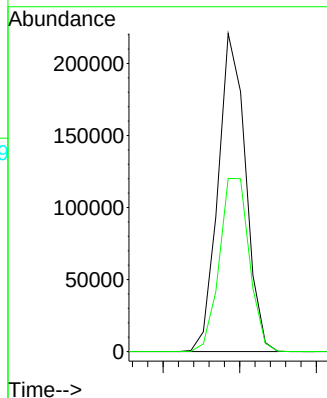
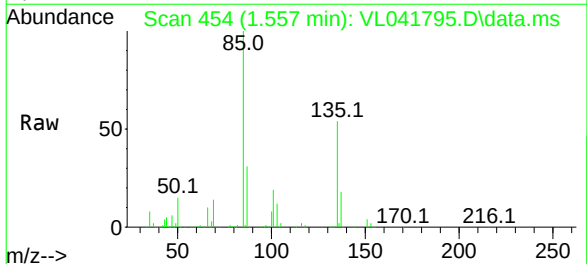
Manual Integrations
APPROVED

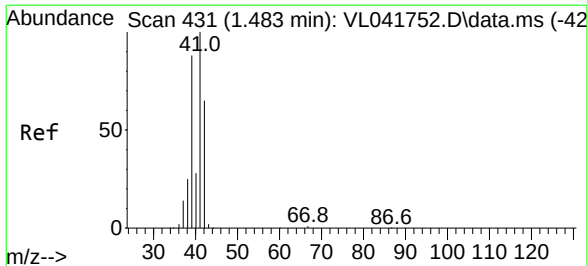
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#8
Dichlorotetrafluoroethane
Concen: 9.549 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 85 Resp: 110410
Ion Ratio Lower Upper
85 100
135 59.3 51.9 77.9





#9

Propene

Concen: 6.846 ppbv

RT: 1.486 min Scan# 431

Delta R.T. 0.003 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

Tgt Ion: 41 Resp: 35133

Ion Ratio Lower Upper

41 100

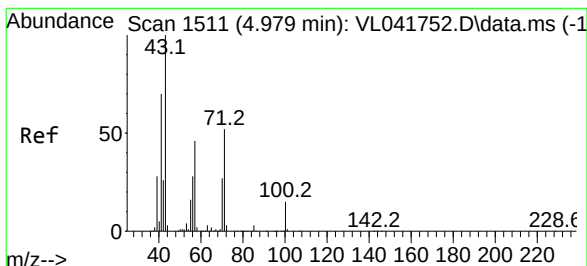
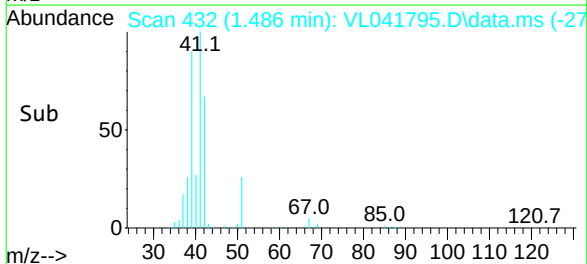
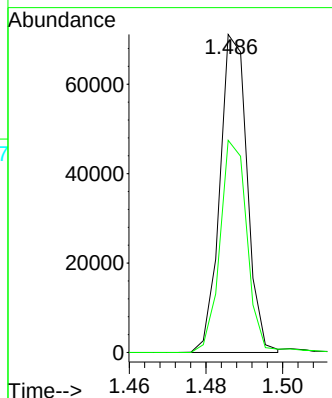
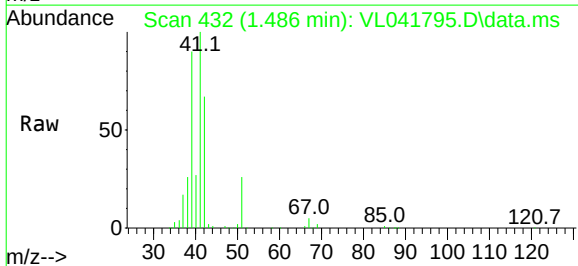
42 67.4 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#10

Heptane

Concen: 8.085 ppbv

RT: 5.001 min Scan# 1518

Delta R.T. 0.022 min

Lab File: VL041795.D

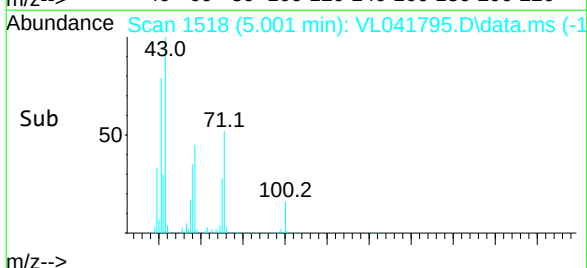
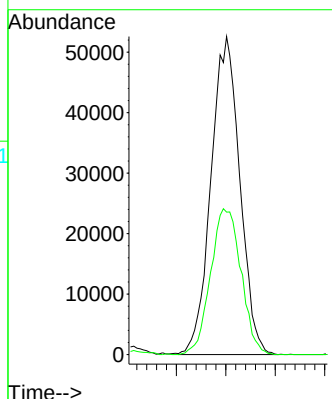
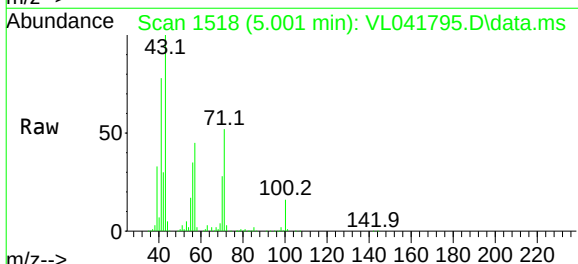
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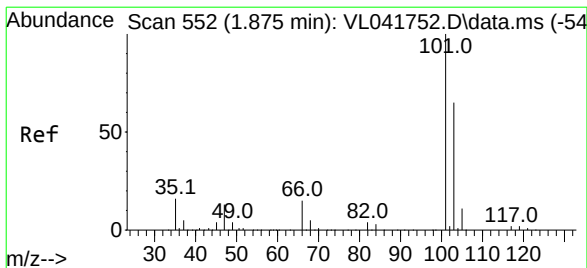
Tgt Ion: 43 Resp: 106572

Ion Ratio Lower Upper

43 100

57 48.3 38.5 57.7





#11

Trichlorofluoromethane

Concen: 9.632 ppbv

RT: 1.884 min Scan# 55

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

Tgt Ion:101 Resp: 132171

Ion Ratio Lower Upper

101 100

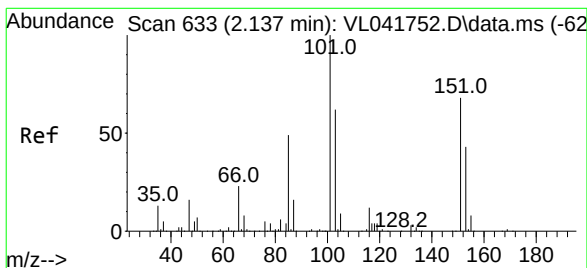
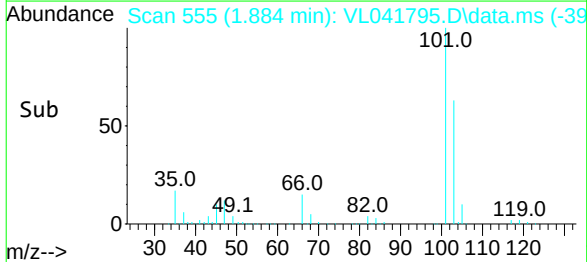
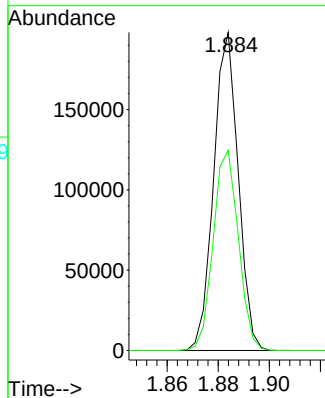
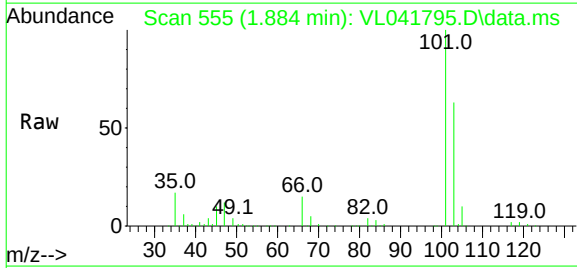
103 62.9 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.222 ppbv

RT: 2.146 min Scan# 636

Delta R.T. 0.009 min

Lab File: VL041795.D

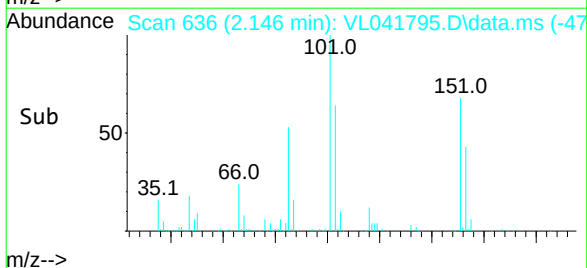
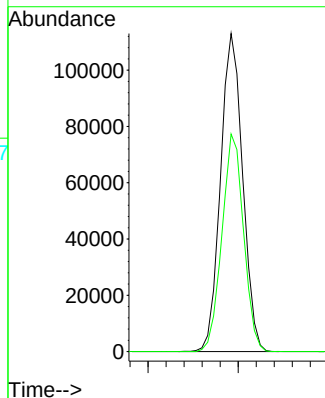
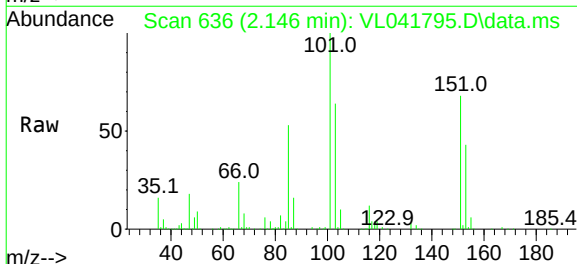
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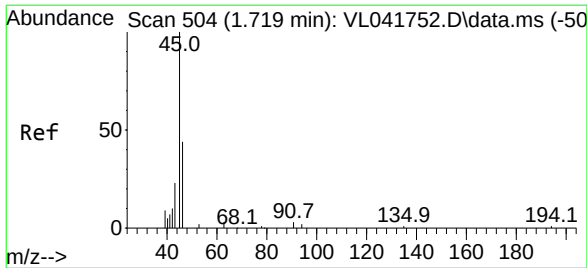
Tgt Ion:101 Resp: 96243

Ion Ratio Lower Upper

101 100

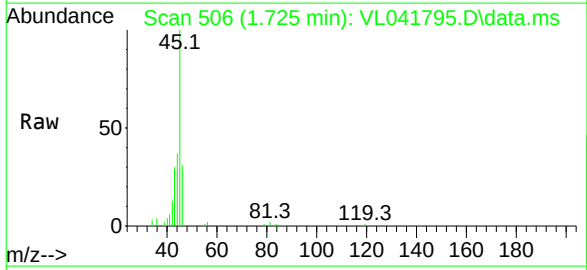
151 66.8 56.8 85.2





#13
Ethanol
Concen: 6.742 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

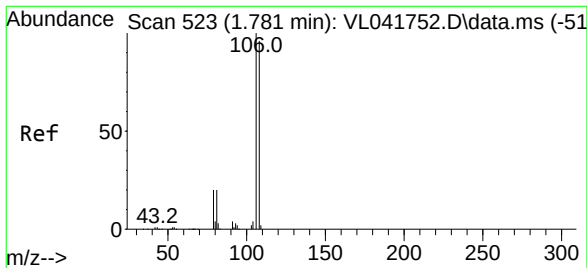
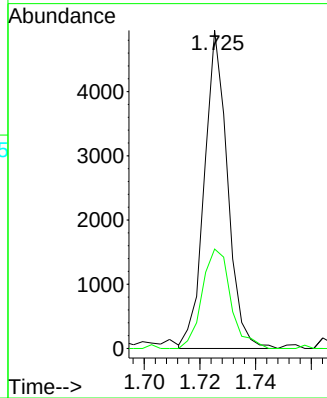
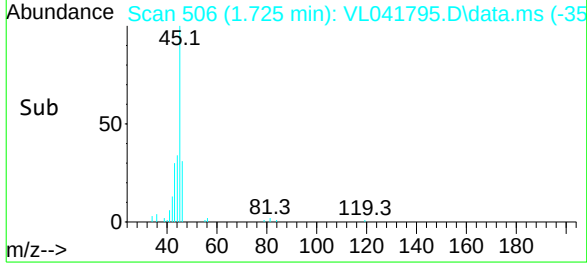
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 45 Resp: 2865
Ion Ratio Lower Upper
45 100
46 39.7 16.4 65.8

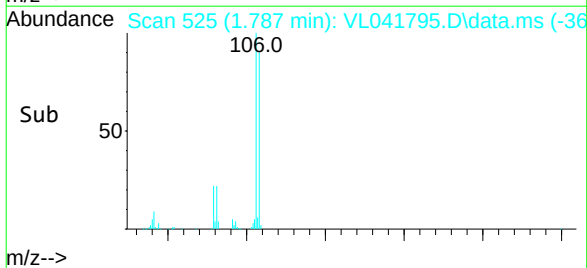
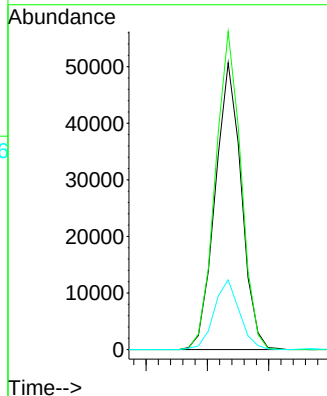
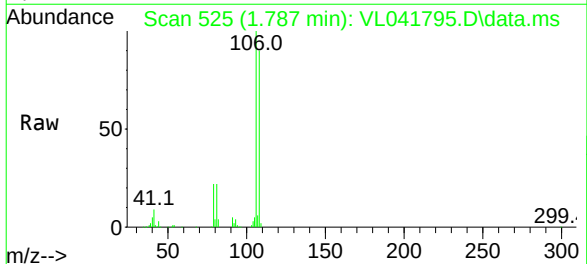
Manual Integrations
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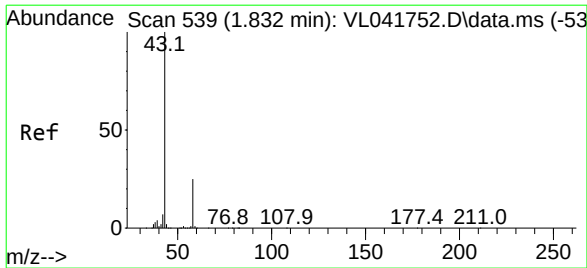
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#14
Bromoethene
Concen: 8.533 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:108 Resp: 30065
Ion Ratio Lower Upper
108 100
106 108.9 84.1 126.1
79 23.9 17.4 26.0





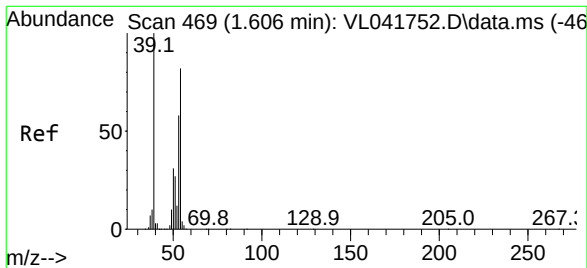
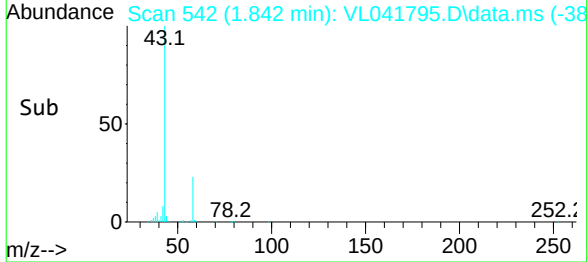
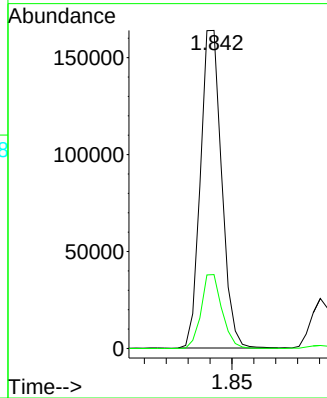
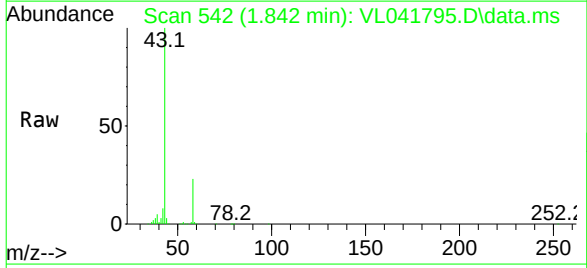
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Acetone
Concen: 7.807 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 43 Resp: 110277
Ion Ratio Lower Upper
43 100
58 23.0 19.7 29.5

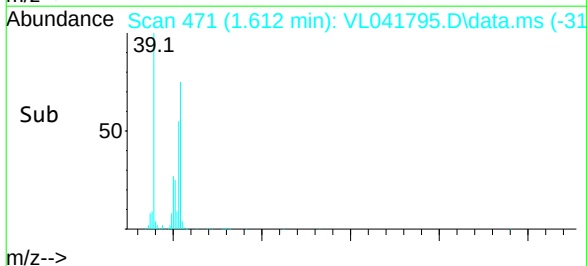
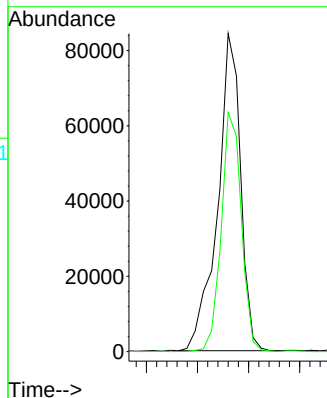
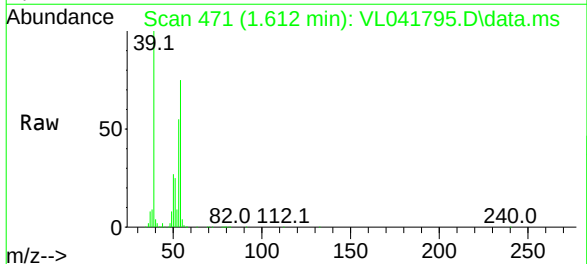
Manual Integrations
APPROVED

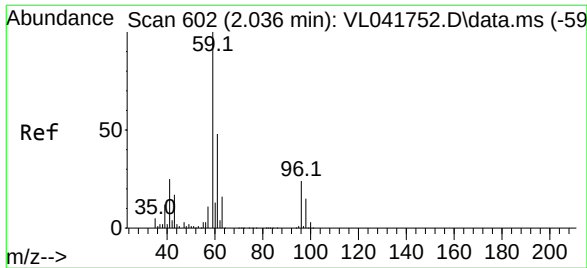
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#16
1,3-Butadiene
Concen: 9.450 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

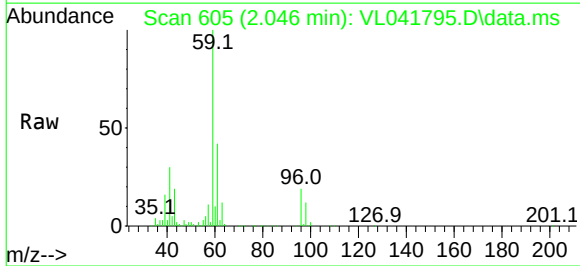
Tgt Ion: 39 Resp: 52562
Ion Ratio Lower Upper
39 100
54 66.3 58.4 87.6





#17
tert-Butyl alcohol
Concen: 8.768 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

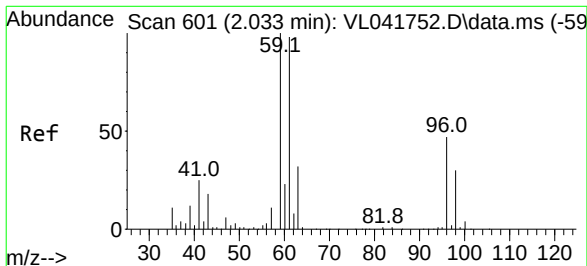
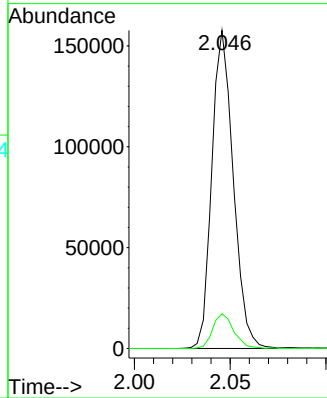
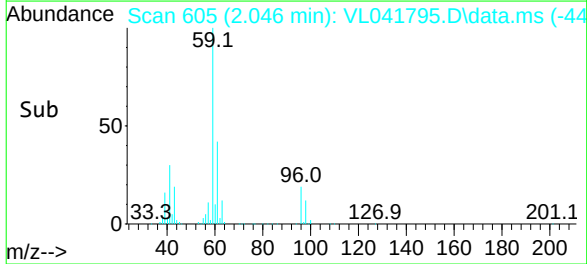
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 59 Resp: 122872
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0

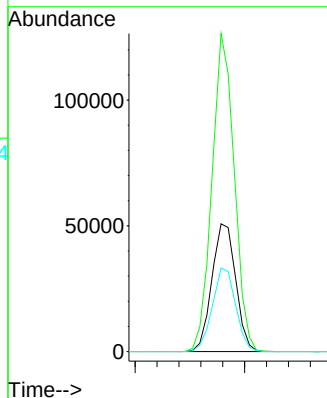
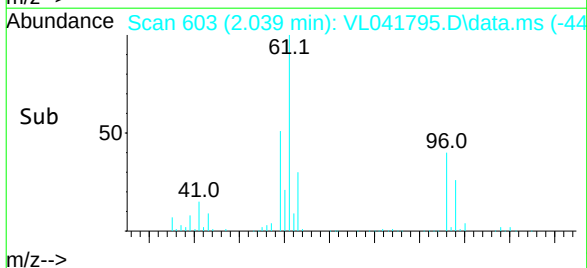
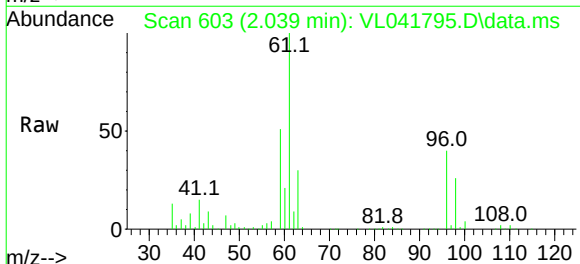
Manual Integrations
APPROVED

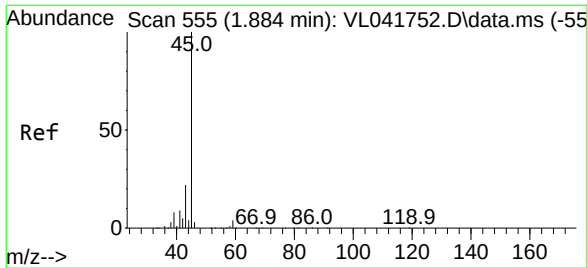
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#18
1,1-Dichloroethene
Concen: 8.780 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 96 Resp: 38415
Ion Ratio Lower Upper
96 100
61 248.9 167.7 251.5
98 65.4 51.1 76.7





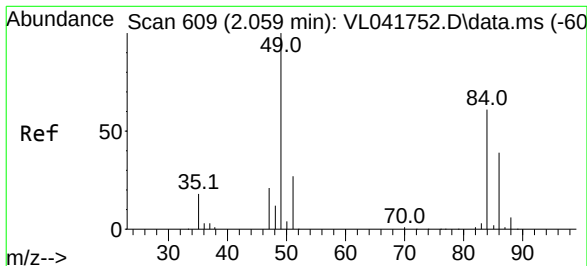
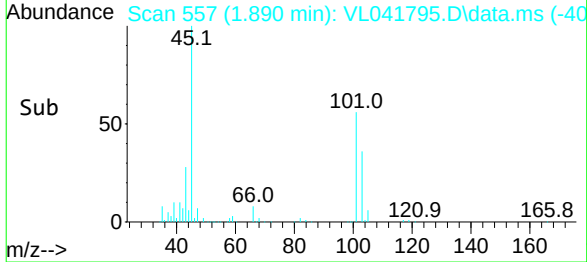
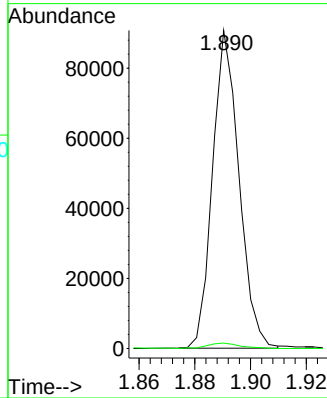
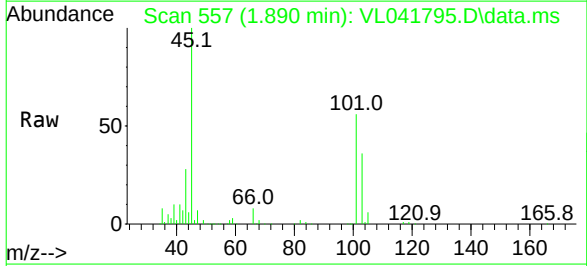
#19
Isopropyl Alcohol
Concen: 7.039 ppbv
RT: 1.890 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 45 Resp: 59665
Ion Ratio Lower Upper
45 100
58 2.1 33.3 49.9#

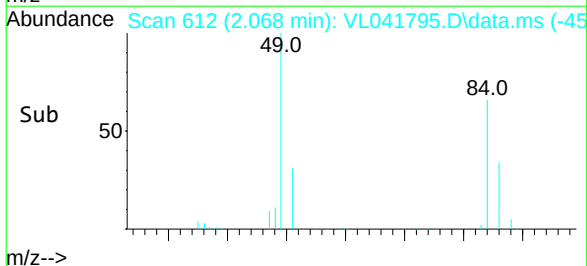
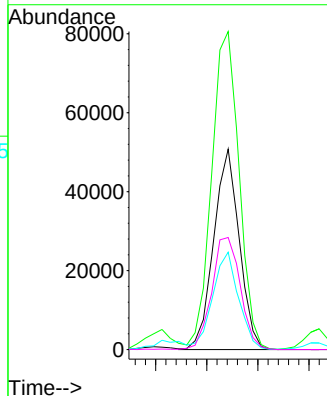
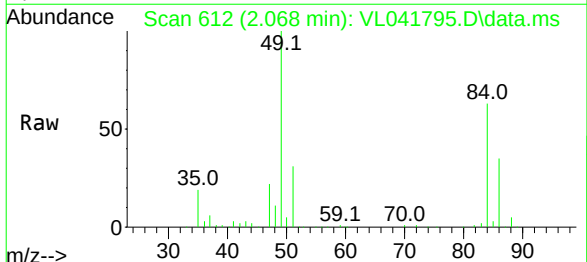
Manual Integrations
APPROVED

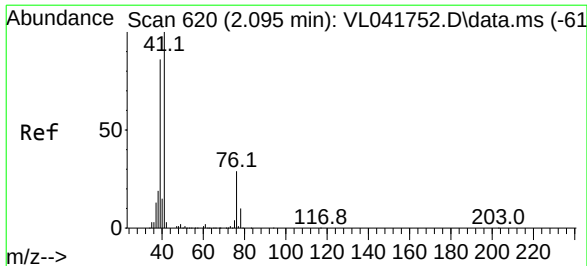
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#20
Methylene Chloride
Concen: 8.766 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 84 Resp: 35310
Ion Ratio Lower Upper
84 100
49 158.5 132.6 198.8
51 48.4 37.6 56.4
86 55.9 51.4 77.0





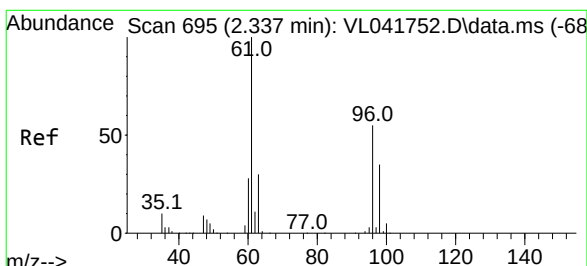
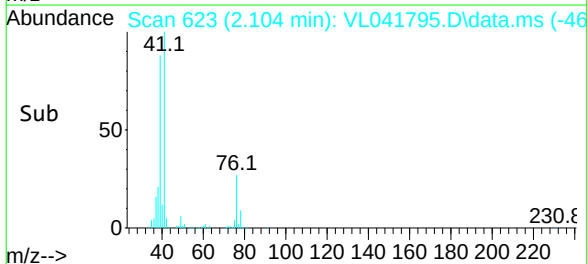
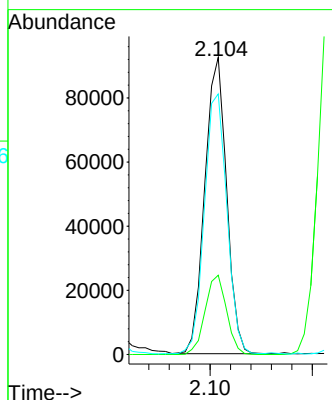
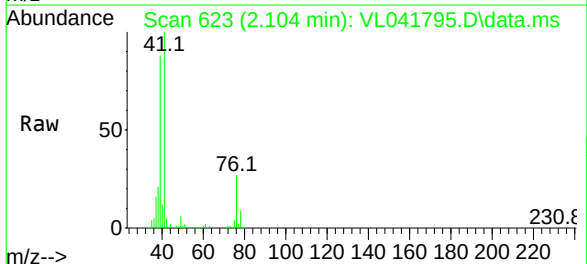
#21
 Allyl Chloride
 Concen: 8.945 ppbv
 RT: 2.104 min Scan# 621
 Delta R.T. 0.009 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

Tgt Ion:	41	Resp:	68525
Ion	Ratio	Lower	Upper
41	100		
76	26.2	22.3	33.5
39	91.2	69.2	103.8

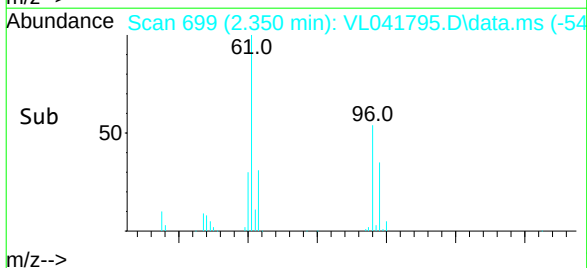
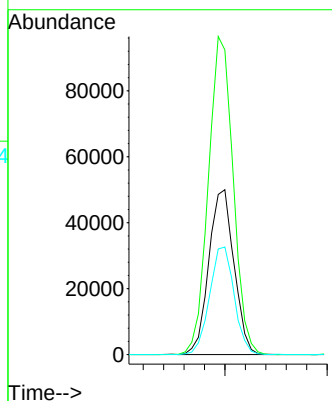
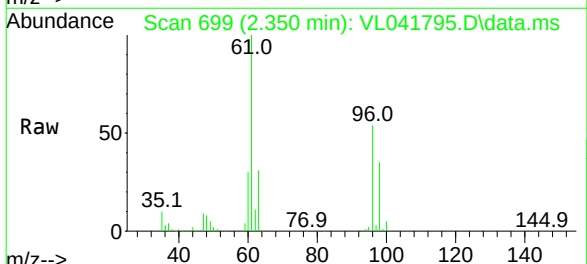
Manual Integrations
 APPROVED

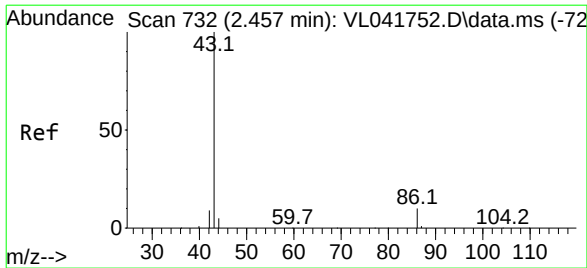
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#22
 trans-1,2-Dichloroethene
 Concen: 8.550 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

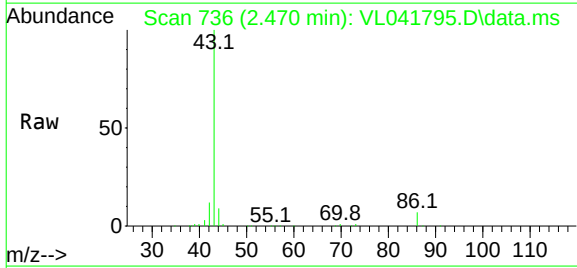
Tgt Ion:	96	Resp:	42821
Ion	Ratio	Lower	Upper
96	100		
61	184.8	146.3	219.5
98	65.2	50.8	76.2





#23
 Vinyl Acetate
 Concen: 6.627 ppbv
 RT: 2.470 min Scan# 73
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

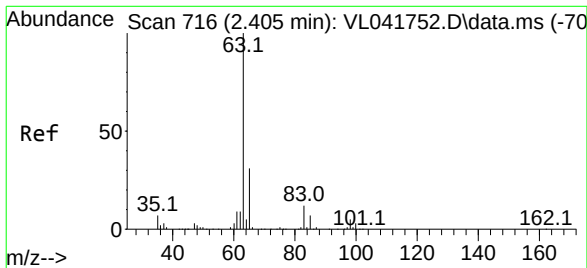
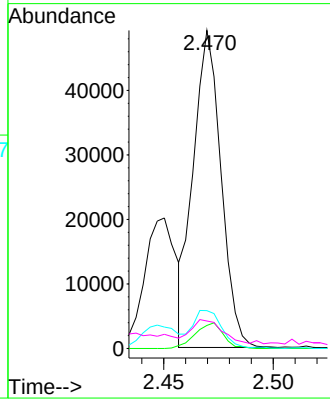
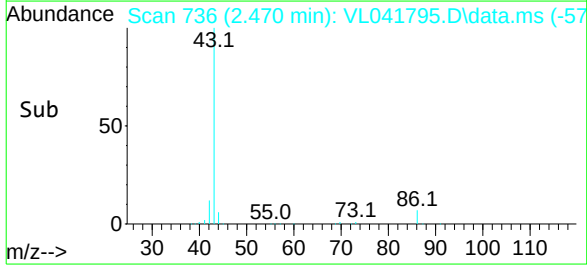
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01



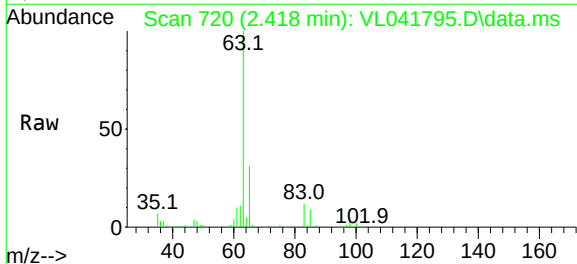
Tgt Ion:	43	Resp:	43463
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.6	10.0
42	11.5	8.2	12.2
44	6.9	5.0	7.4

Manual Integrations
 APPROVED

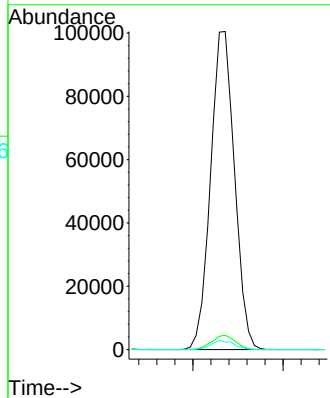
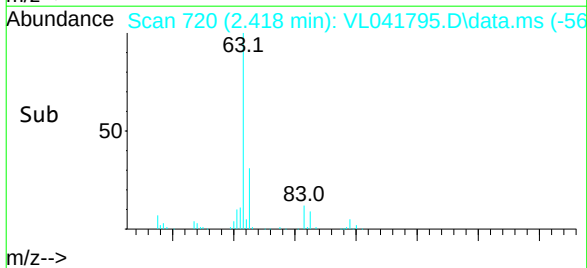
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

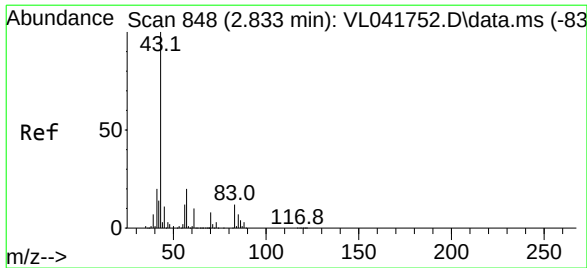


#24
 1,1-Dichloroethane
 Concen: 9.142 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06



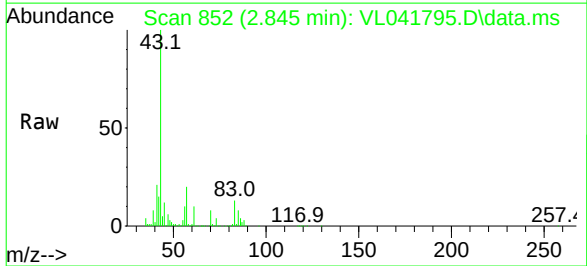
Tgt Ion:	63	Resp:	92680
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.4	1.4	4.2





#25
Ethyl Acetate
Concen: 8.502 ppbv
RT: 2.845 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

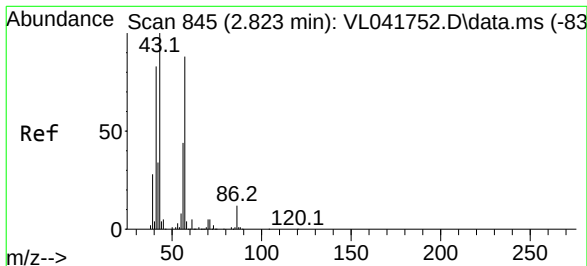
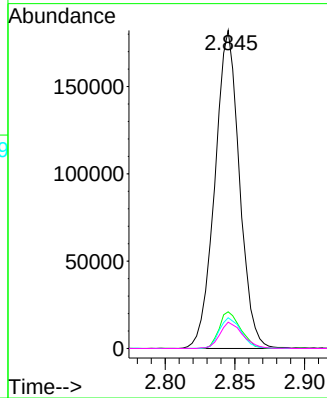
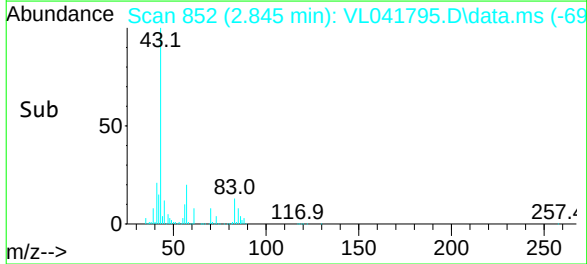
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion:	43	Resp:	223419
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.1	12.1
61	8.7	7.0	10.6
70	7.7	6.5	9.7

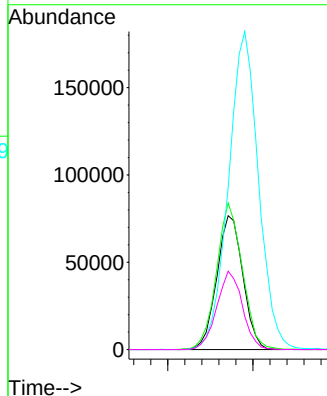
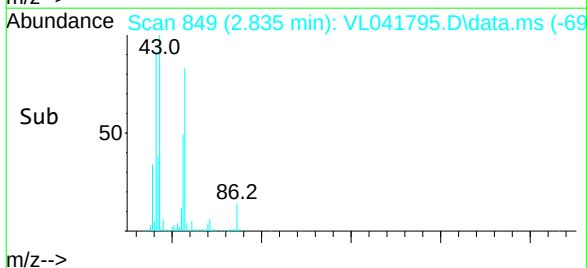
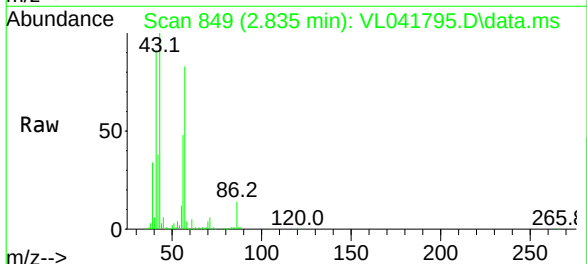
Manual Integrations
APPROVED

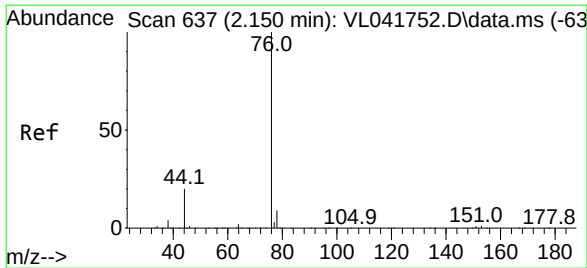
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#26
Hexane
Concen: 8.164 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

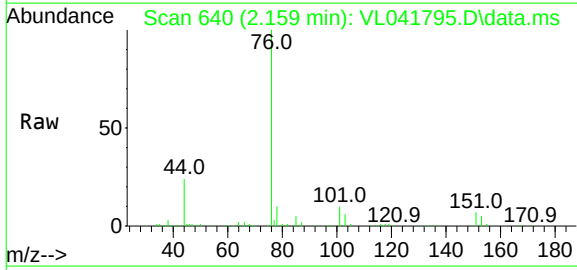
Tgt Ion:	57	Resp:	81413
Ion	Ratio	Lower	Upper
57	100		
41	109.0	79.6	119.4
43	275.9	211.0	316.6
56	57.7	42.6	63.8





#27
Carbon Disulfide
Concen: 8.505 ppbv
RT: 2.159 min Scan# 641
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

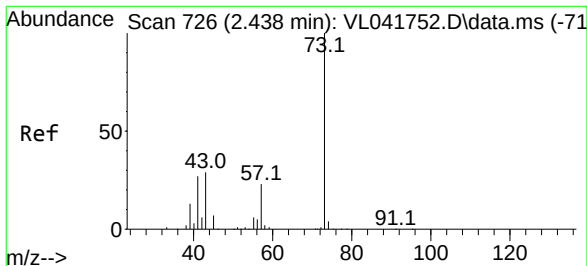
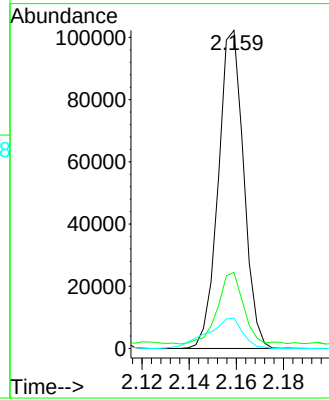
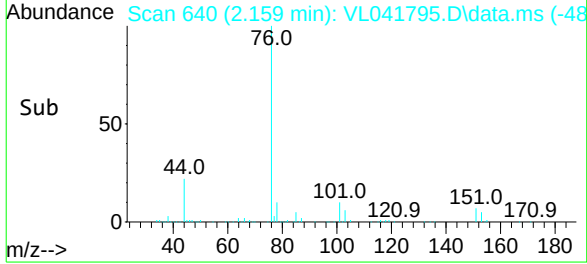
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 76 Resp: 76433
Ion Ratio Lower Upper
76 100
44 25.9 17.6 26.4
78 13.3 10.2 15.4

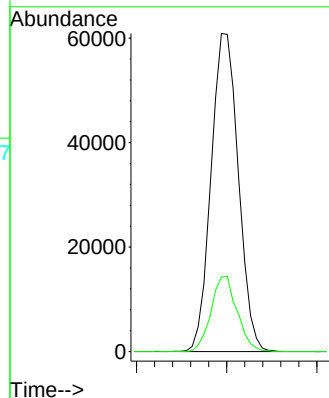
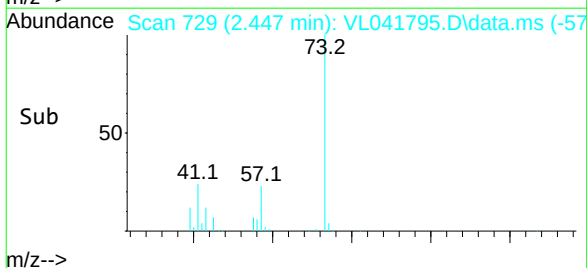
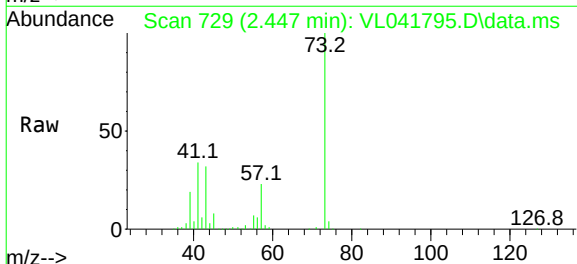
Manual Integrations
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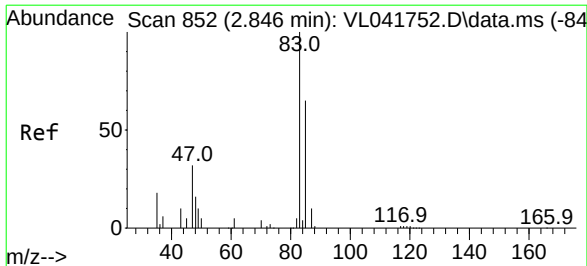
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#28
Methyl tert-Butyl Ether
Concen: 7.915 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

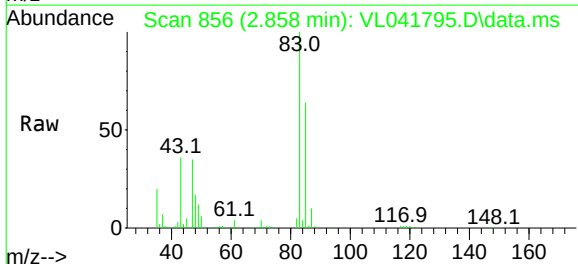
Tgt Ion: 73 Resp: 64037
Ion Ratio Lower Upper
73 100
57 22.6 17.6 26.4





#29
Chloroform
Concen: 9.200 ppbv
RT: 2.858 min Scan# 85
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

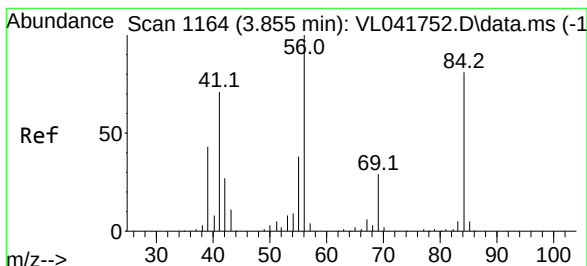
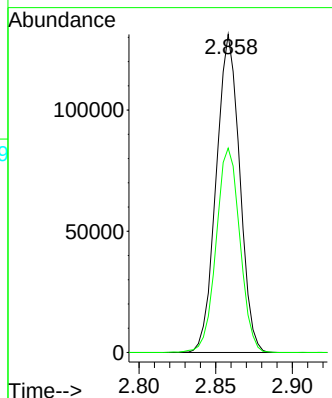
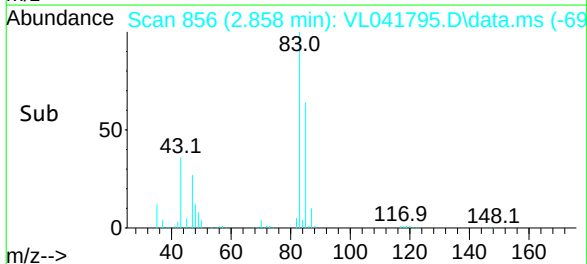
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 83 Resp: 139818
Ion Ratio Lower Upper
83 100
85 64.2 51.8 77.6

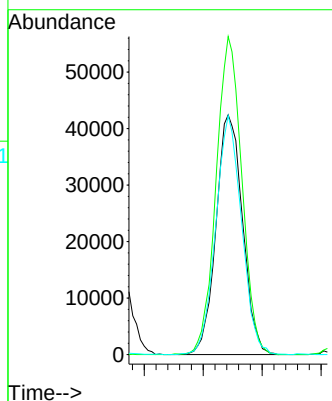
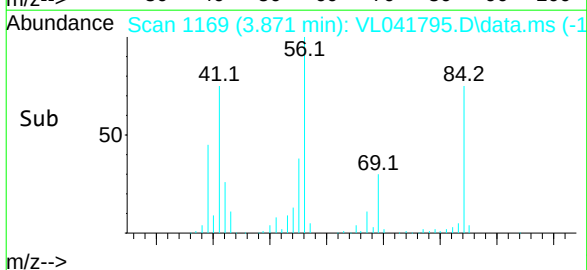
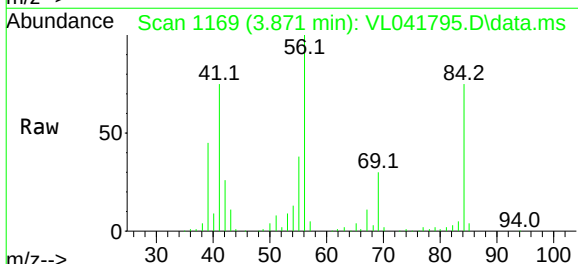
Manual Integrations
APPROVED

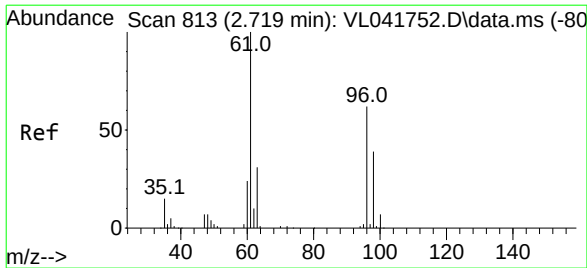
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#30
Cyclohexane
Concen: 7.806 ppbv
RT: 3.871 min Scan# 1169
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 84 Resp: 66237
Ion Ratio Lower Upper
84 100
56 128.6 102.3 153.5
41 97.1 74.0 111.0





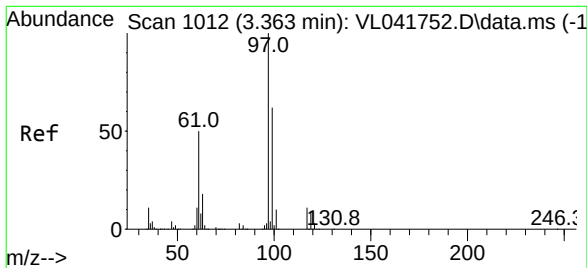
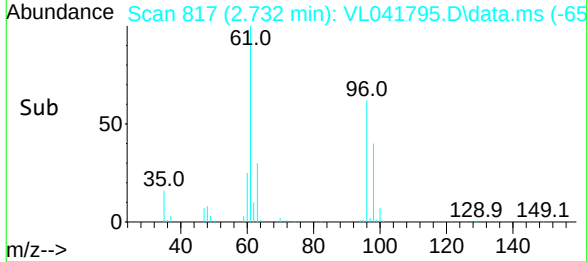
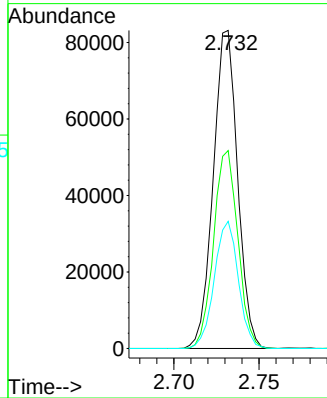
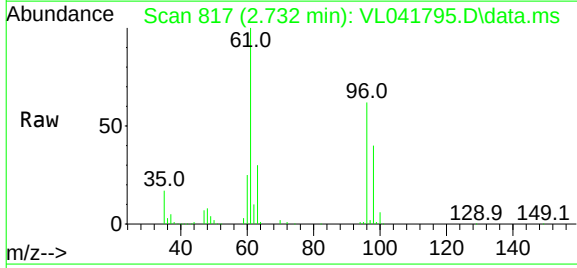
#31
cis-1,2-Dichloroethene
Concen: 8.033 ppbv
RT: 2.732 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion	Ratio	Lower	Upper
61	100		
96	62.2	49.7	74.5
98	40.0	30.8	46.2

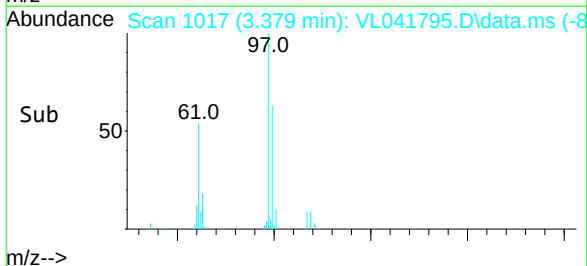
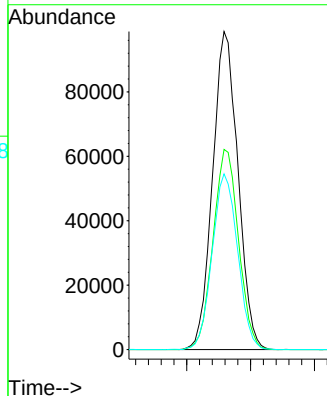
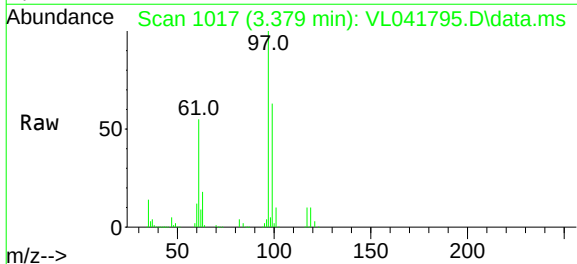
Manual Integrations
APPROVED

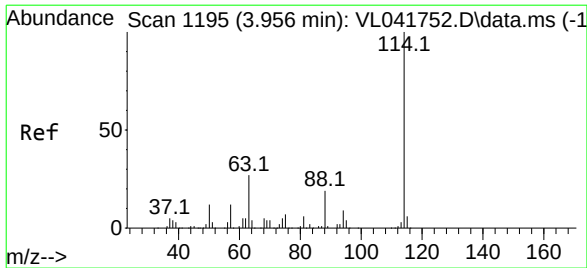
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#32
1,1,1-Trichloroethane
Concen: 8.807 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.4
61	55.6	42.2	63.2





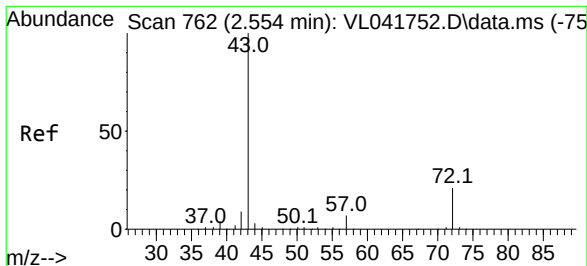
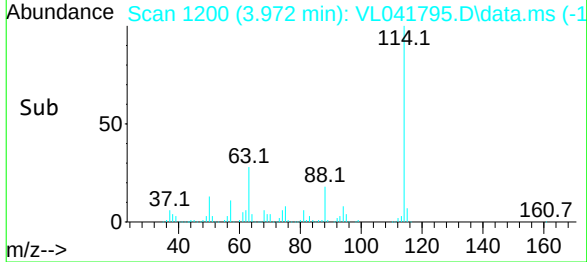
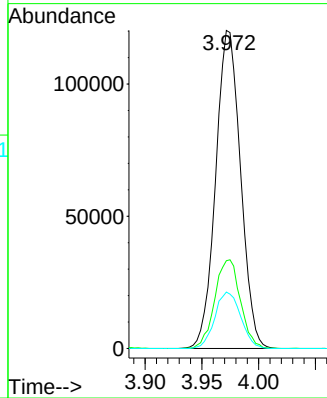
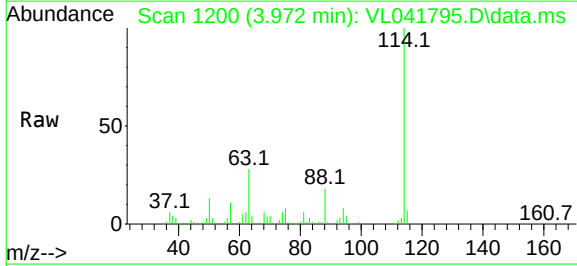
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 12
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 114 Resp: 183255
Ion Ratio Lower Upper
114 100
63 28.8 21.8 32.8
88 18.4 14.8 22.2

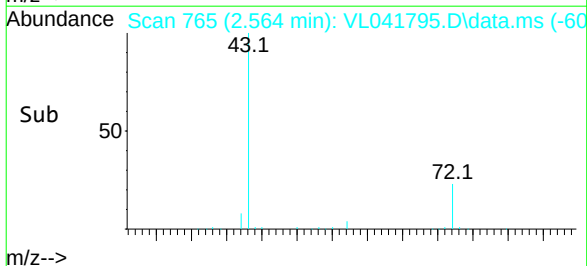
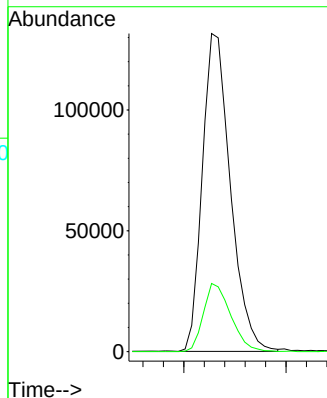
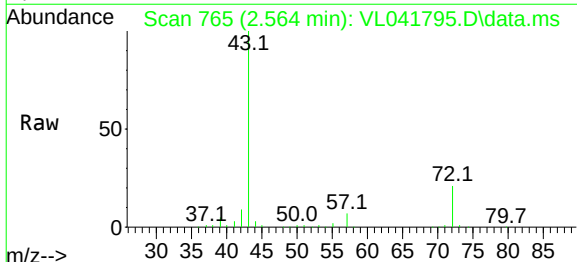
Manual Integrations
APPROVED

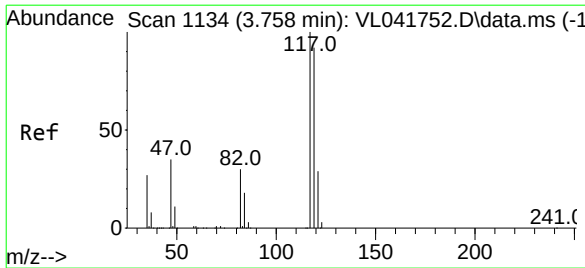
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 8.525 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

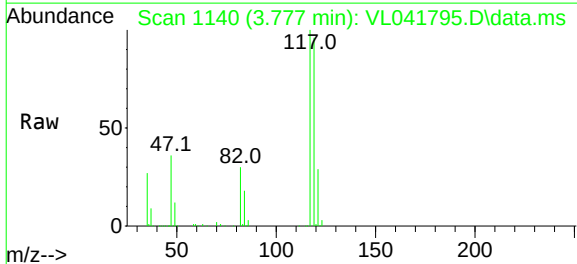
Tgt Ion: 43 Resp: 125687
Ion Ratio Lower Upper
43 100
72 20.9 16.8 25.2





#35
Carbon Tetrachloride
Concen: 10.854 ppbv
RT: 3.777 min Scan# 111
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

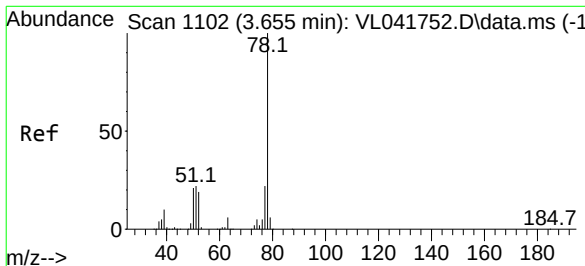
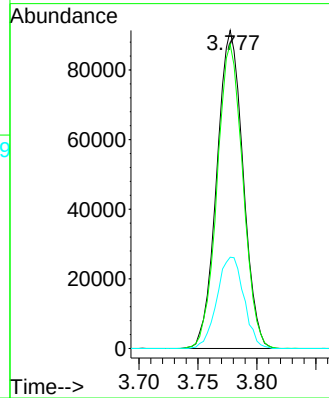
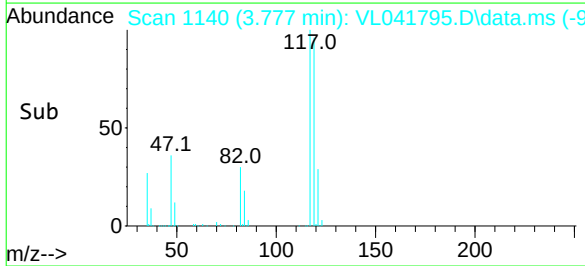
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion:117 Resp: 141202
Ion Ratio Lower Upper
117 100
119 95.6 73.7 110.5
121 28.7 23.0 34.4

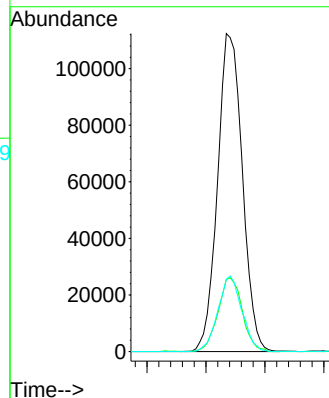
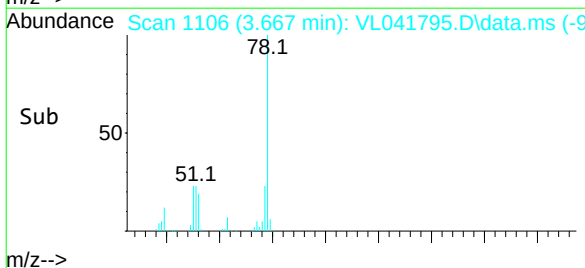
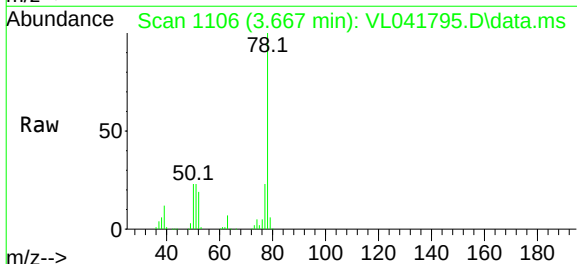
Manual Integrations
APPROVED

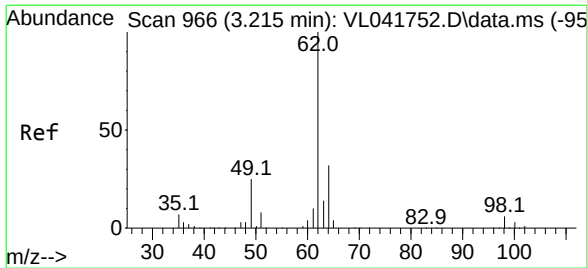
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#36
Benzene
Concen: 8.674 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 78 Resp: 164423
Ion Ratio Lower Upper
78 100
77 22.6 17.8 26.6
50 22.8 17.2 25.8





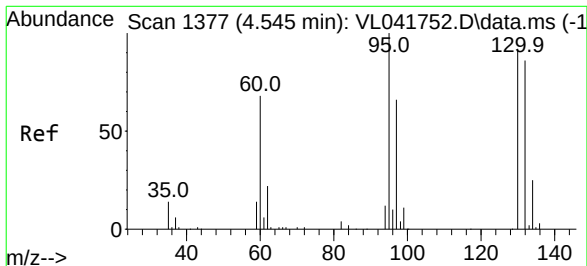
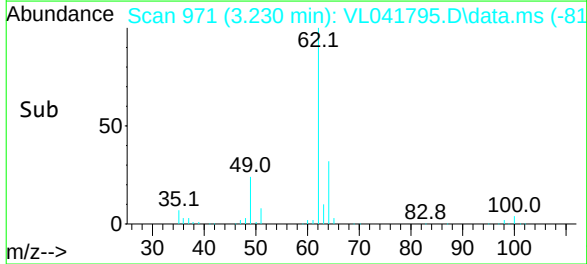
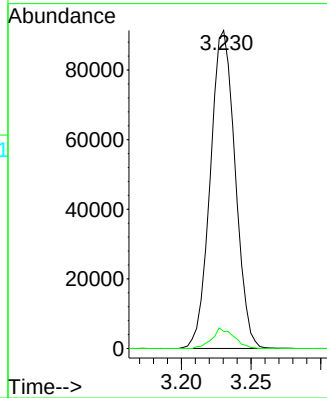
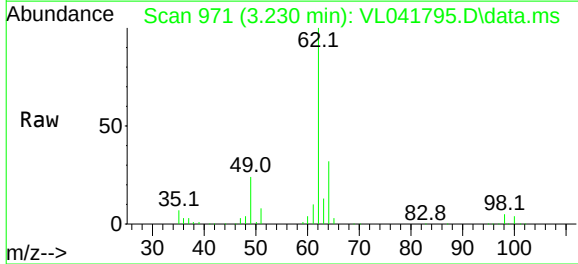
#37
1,2-Dichloroethane
Concen: 9.631 ppbv
RT: 3.230 min Scan# 971
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 62 Resp: 113600
Ion Ratio Lower Upper
62 100
98 5.7 4.7 7.1

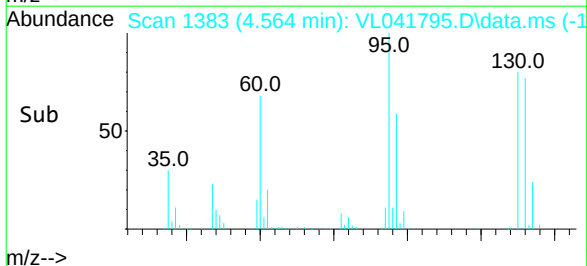
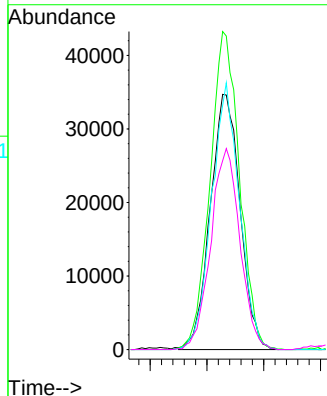
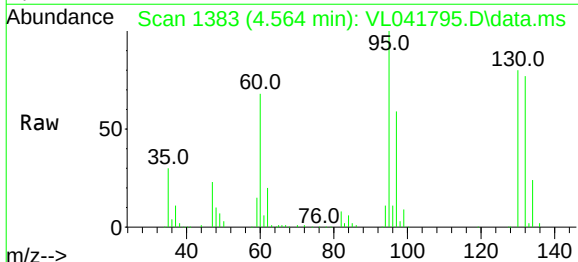
Manual Integrations
APPROVED

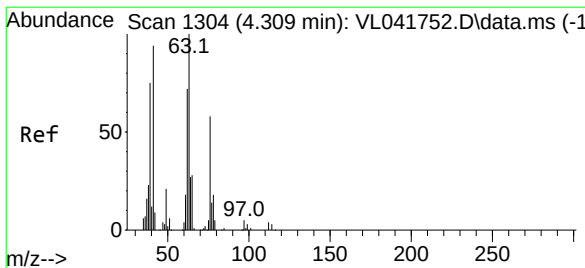
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#38
Trichloroethene
Concen: 7.864 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:130 Resp: 63280
Ion Ratio Lower Upper
130 100
95 124.4 87.0 130.6
132 95.7 75.0 112.6
97 74.0 57.2 85.8





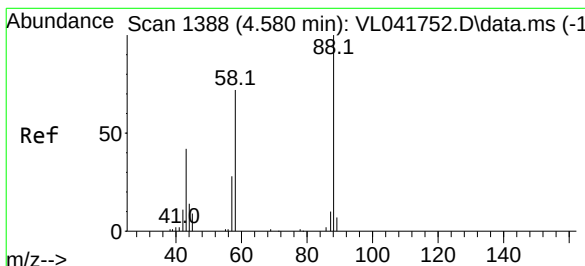
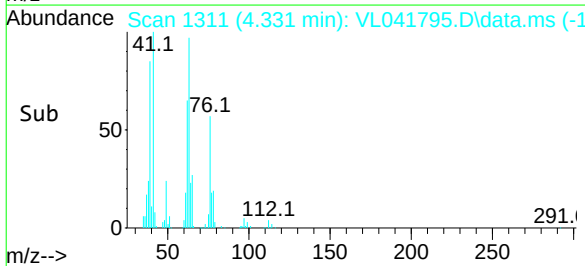
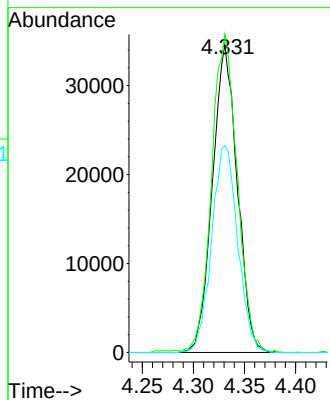
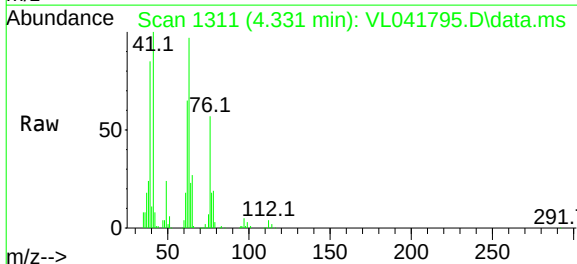
#39
1,2-Dichloropropane
Concen: 8.541 ppbv
RT: 4.331 min Scan# 13
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion:	63	Resp:	58553
Ion	Ratio	Lower	Upper
63	100		
41	103.2	75.3	112.9
62	67.3	57.3	85.9

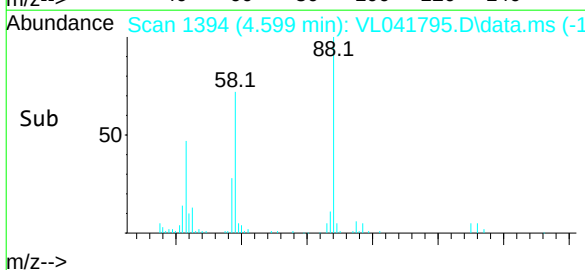
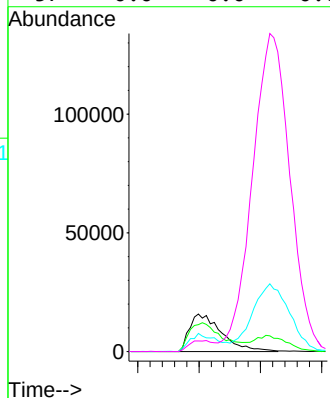
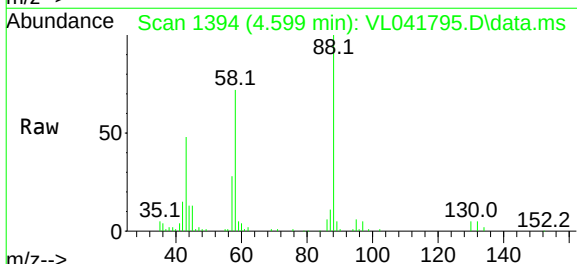
Manual Integrations
APPROVED

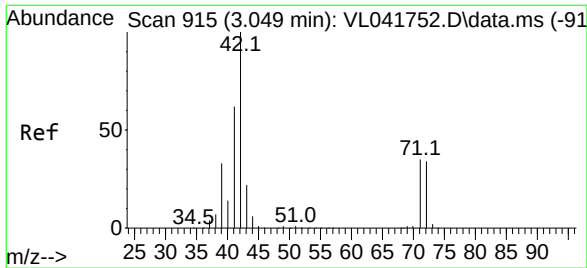
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#40
1,4-Dioxane
Concen: 8.624 ppbv
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

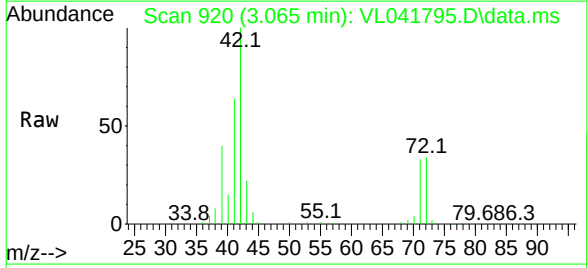
Tgt Ion:	88	Resp:	28884
Ion	Ratio	Lower	Upper
88	100		
58	83.5	61.0	91.6
43	40.2	29.4	44.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 8.114 ppbv
RT: 3.065 min Scan# 92
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

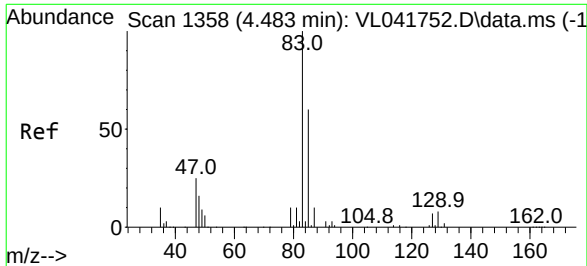
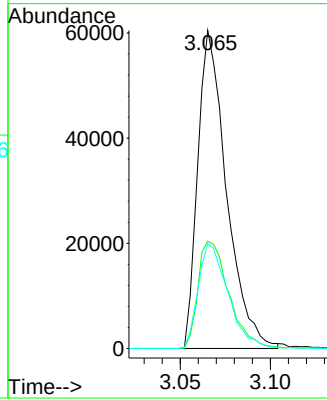
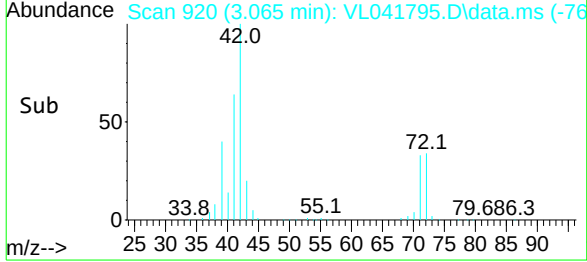
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



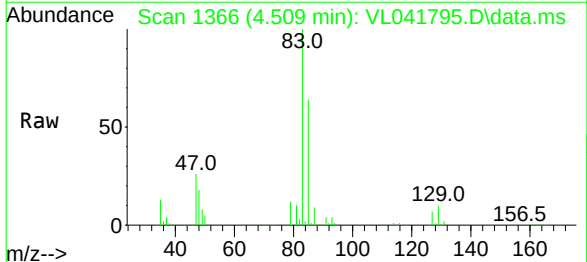
Tgt Ion: 42 Resp: 67017
Ion Ratio Lower Upper
42 100
72 36.3 29.1 43.7
71 34.4 28.4 42.6

Manual Integrations
APPROVED

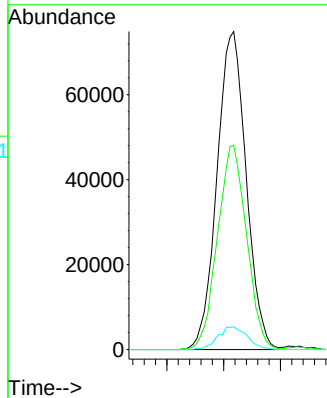
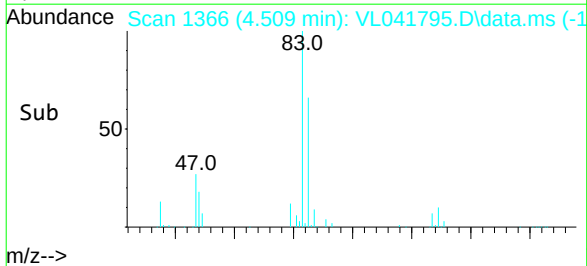
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

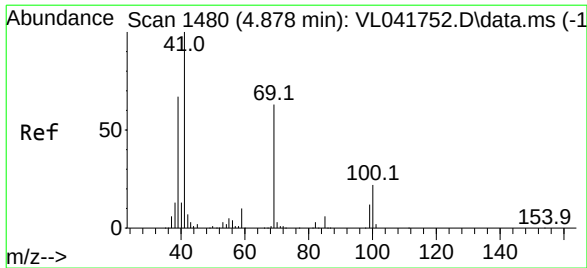


#42
Bromodichloromethane
Concen: 9.839 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.026 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



Tgt Ion: 83 Resp: 133513
Ion Ratio Lower Upper
83 100
85 64.2 48.0 72.0
127 7.2 5.8 8.8





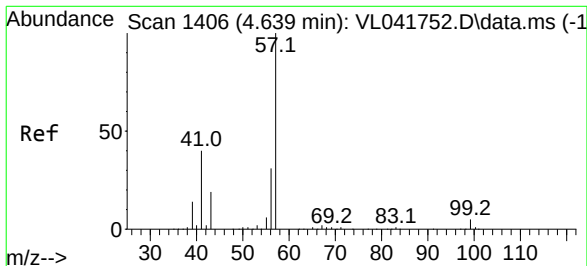
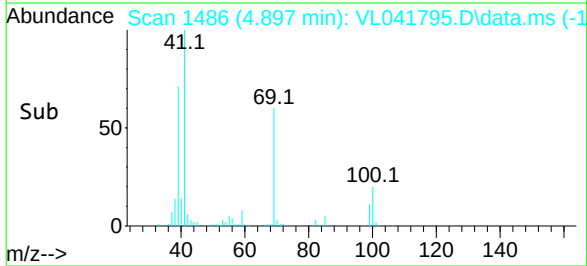
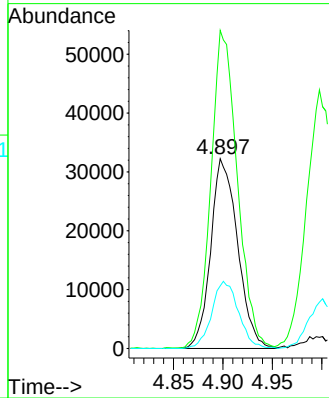
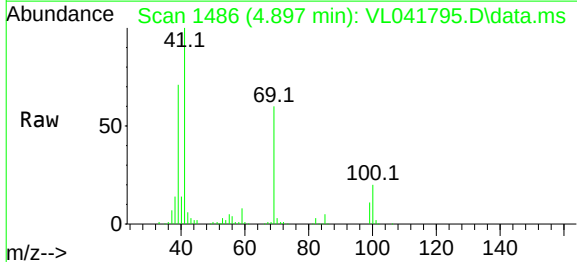
#43
Methyl Methacrylate
Concen: 8.448 ppbv
RT: 4.897 min Scan# 1412
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion:	69	Resp:	61014
Ion	Ratio	Lower	Upper
69	100		
41	165.0	130.3	195.5
100	35.3	28.3	42.5

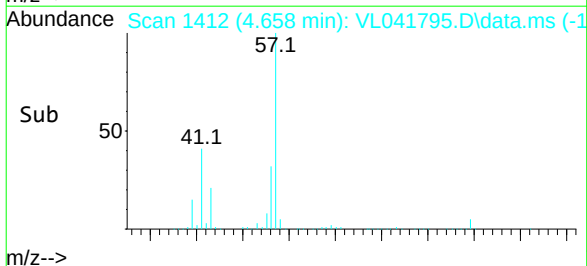
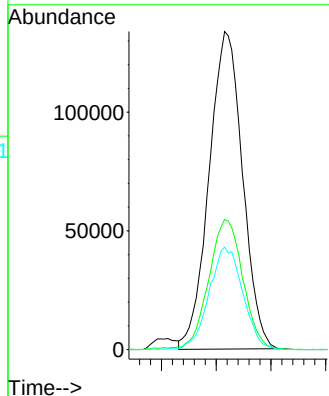
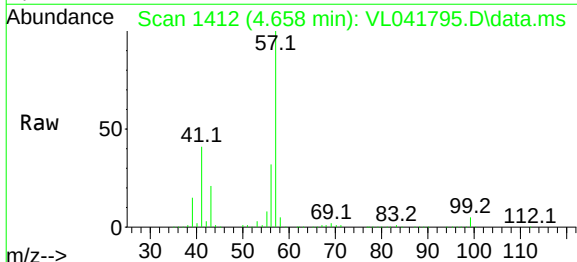
Manual Integrations
APPROVED

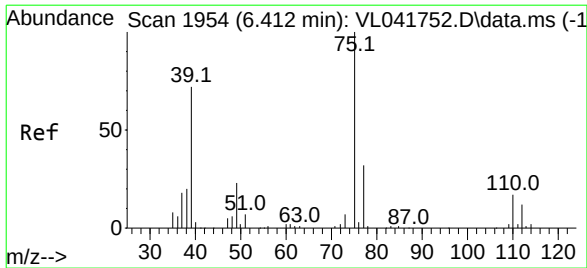
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#44
2,2,4-Trimethylpentane
Concen: 8.777 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

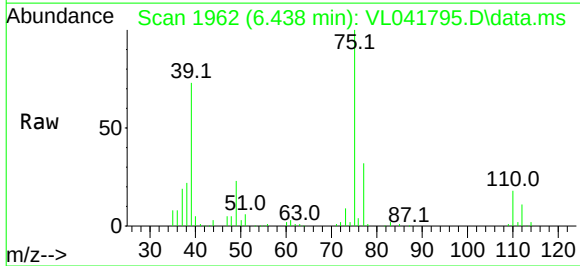
Tgt Ion:	57	Resp:	284140
Ion	Ratio	Lower	Upper
57	100		
41	42.1	30.7	46.1
56	32.6	25.4	38.0





#45
t-1,3-Dichloropropene
Concen: 7.879 ppbv
RT: 6.438 min Scan# 1954
Delta R.T. 0.026 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

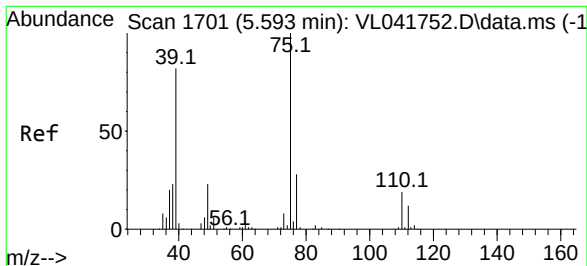
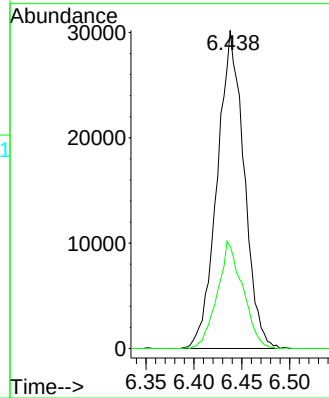
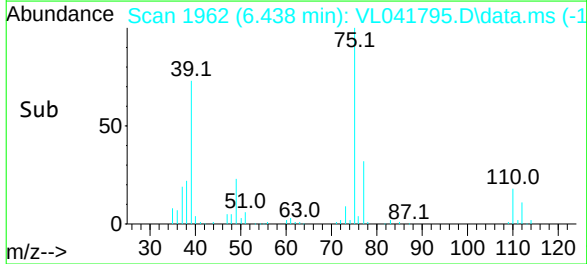
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



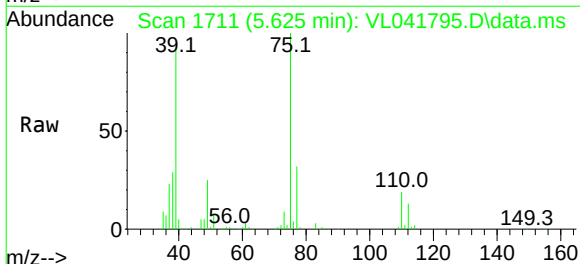
Tgt Ion: 75 Resp: 58865
Ion Ratio Lower Upper
75 100
77 32.1 25.9 38.9

Manual Integrations
APPROVED

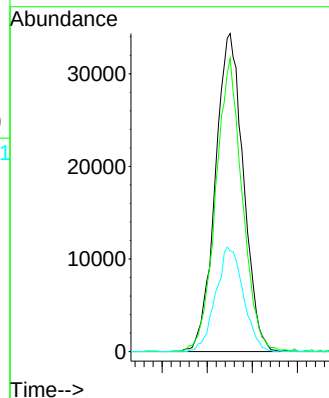
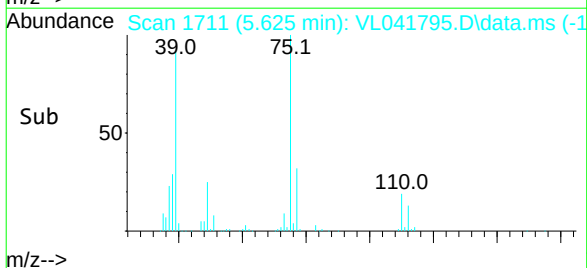
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

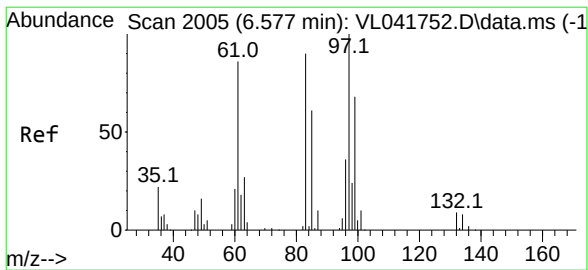


#46
cis-1,3-Dichloropropene
Concen: 7.824 ppbv
RT: 5.625 min Scan# 1711
Delta R.T. 0.032 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



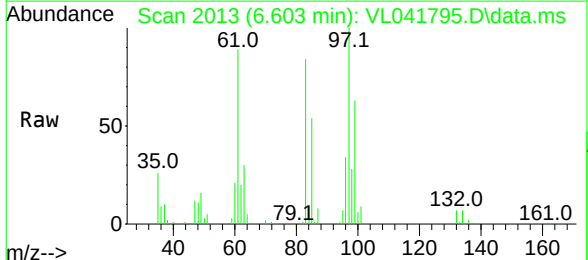
Tgt Ion: 75 Resp: 74198
Ion Ratio Lower Upper
75 100
39 92.0 65.2 97.8
77 31.7 22.0 33.0





#47
1,1,2-Trichloroethane
Concen: 9.071 ppbv
RT: 6.603 min Scan# 20
Delta R.T. 0.026 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

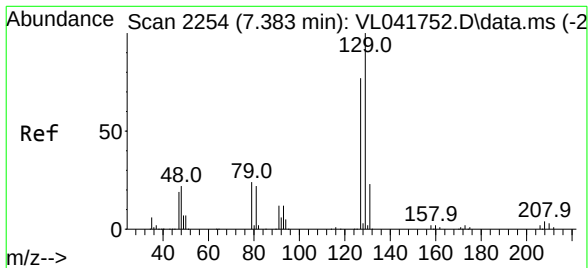
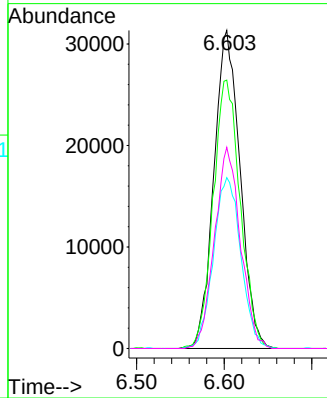
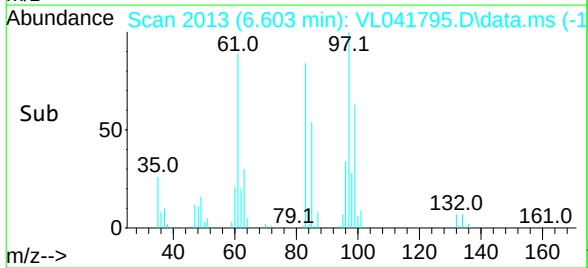
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.4	72.3	108.5
85	53.7	48.5	72.7
99	63.2	54.0	81.0

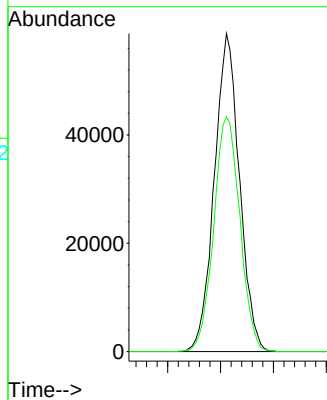
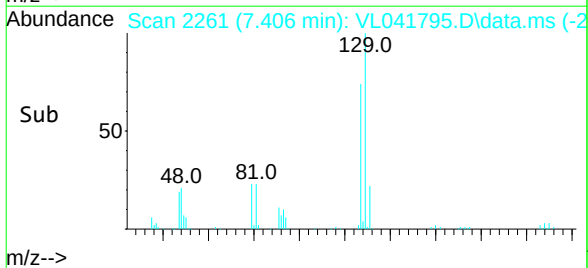
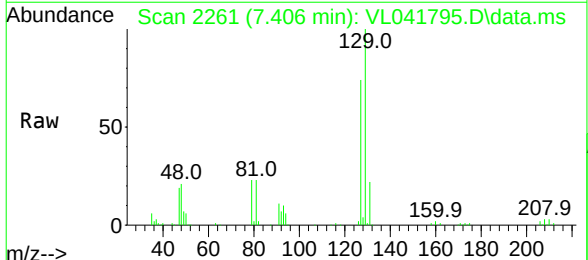
Manual Integrations
APPROVED

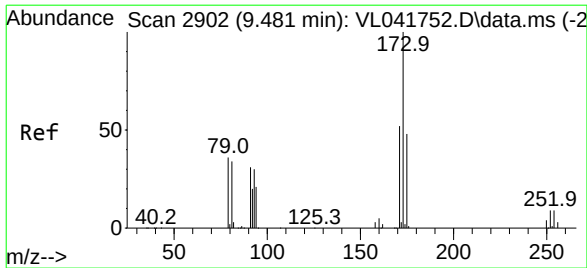
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#48
Dibromochloromethane
Concen: 9.920 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.8	116.3





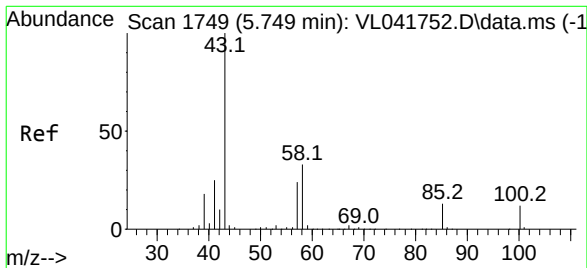
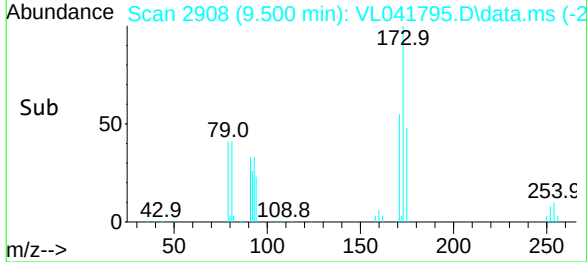
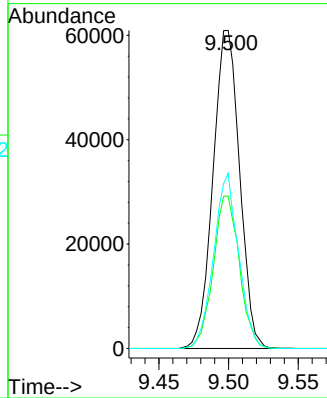
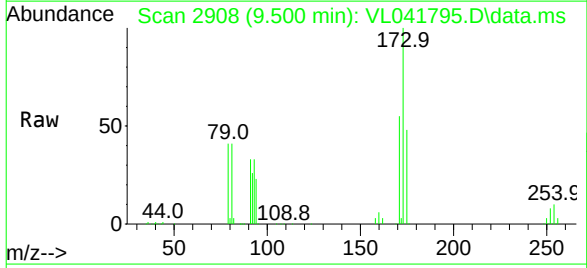
#49
Bromoform
Concen: 10.100 ppbv
RT: 9.500 min Scan# 2902
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 173 Resp: 80840
Ion Ratio Lower Upper
173 100
175 47.1 38.2 57.2
171 51.5 41.1 61.7

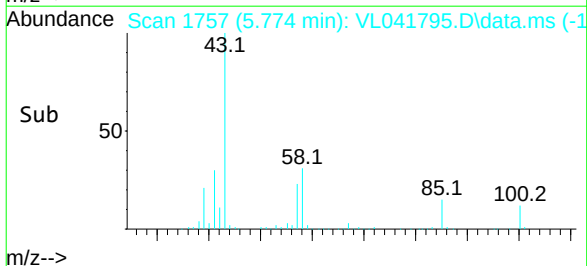
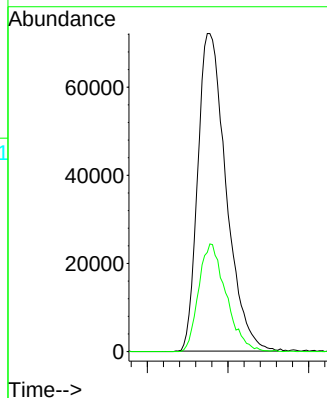
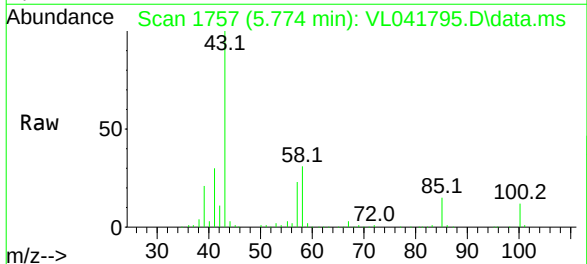
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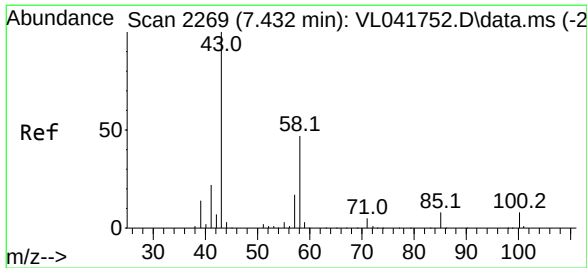
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#50
4-Methyl-2-Pentanone
Concen: 8.759 ppbv
RT: 5.774 min Scan# 1757
Delta R.T. 0.026 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 43 Resp: 175817
Ion Ratio Lower Upper
43 100
58 32.9 26.8 40.2





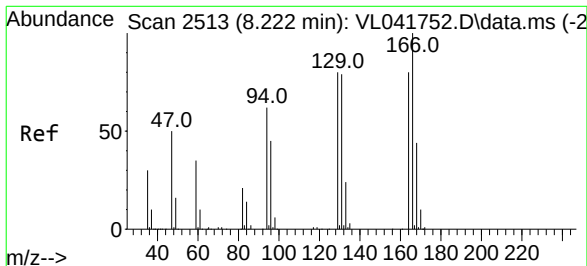
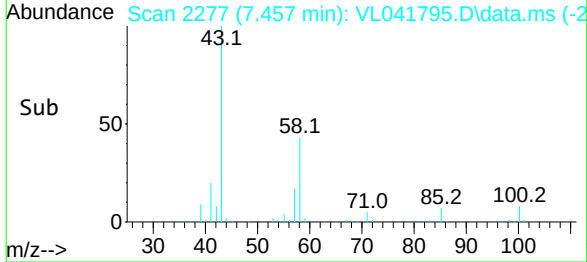
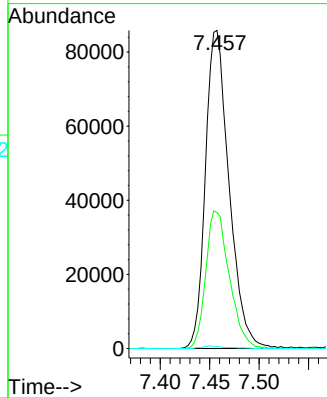
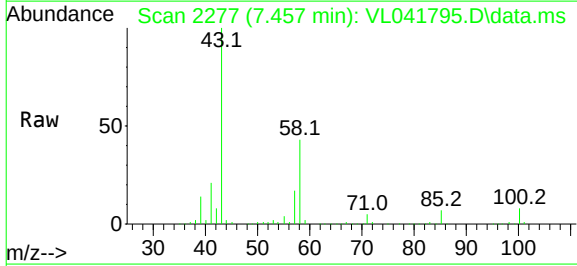
#51
2-Hexanone
Concen: 8.752 ppbv
RT: 7.457 min Scan# 2269
Delta R.T. 0.025 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 43 Resp: 142403
Ion Ratio Lower Upper
43 100
58 43.1 36.6 55.0
98 0.8 0.1 0.1

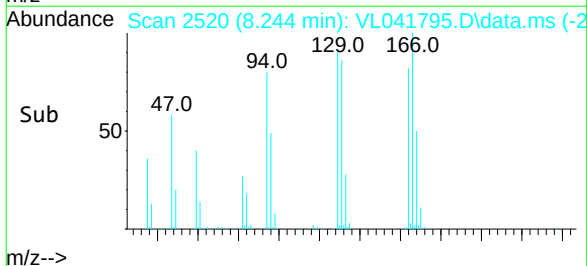
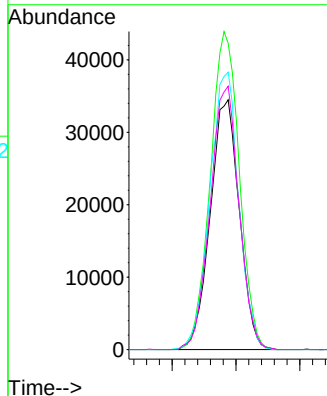
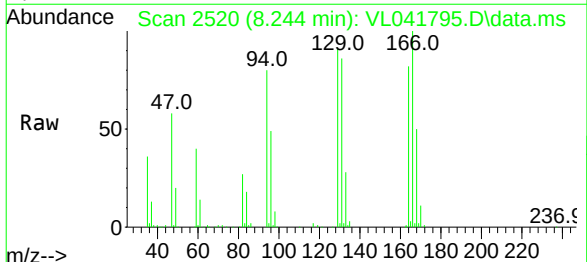
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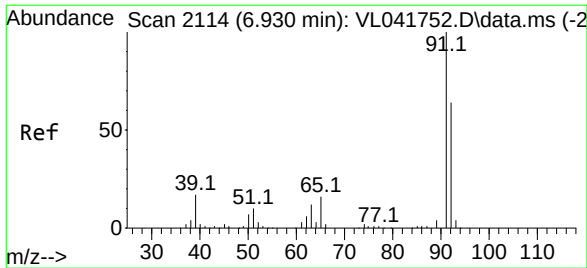
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#52
Tetrachloroethene
Concen: 7.729 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:164 Resp: 54531
Ion Ratio Lower Upper
164 100
166 122.5 99.8 149.6
129 111.1 79.6 119.4
131 105.4 78.6 117.8





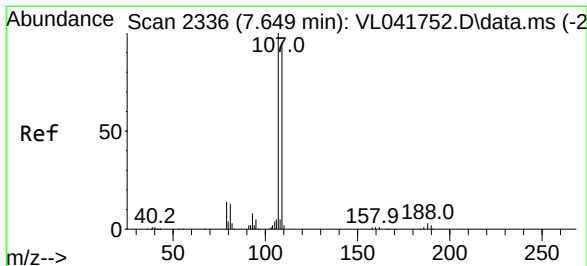
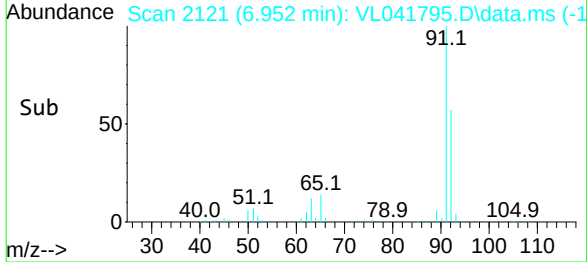
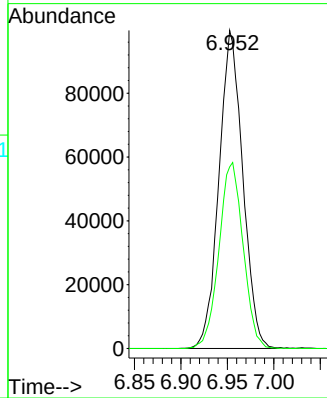
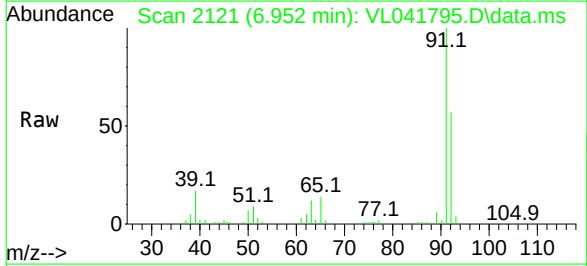
#53
Toluene
Concen: 8.265 ppbv
RT: 6.952 min Scan# 2114
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 91 Resp: 177625
Ion Ratio Lower Upper
91 100
92 59.4 47.9 71.9

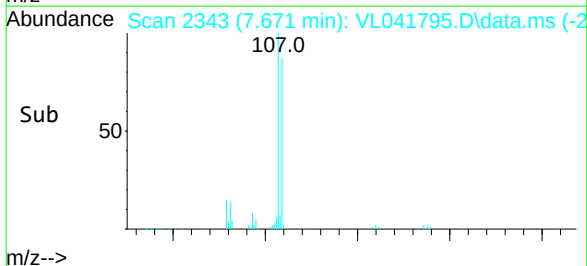
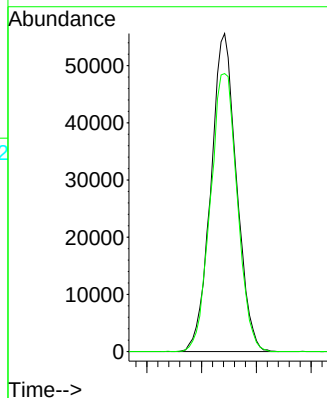
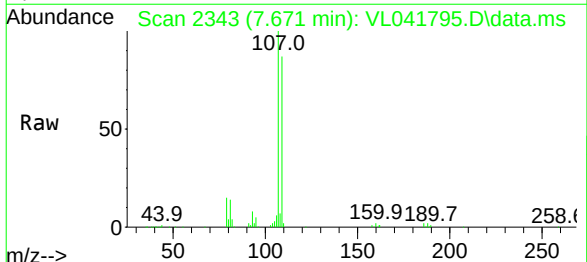
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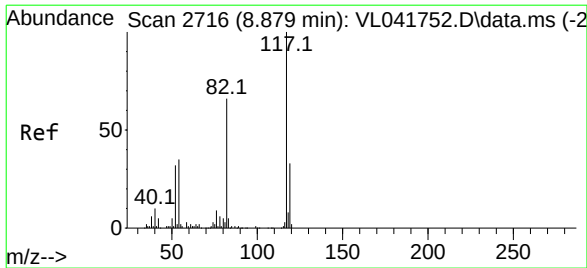
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#54
1,2-Dibromoethane
Concen: 9.161 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:107 Resp: 90389
Ion Ratio Lower Upper
107 100
109 87.4 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 2716

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

Tgt Ion:117 Resp: 159496

Ion Ratio Lower Upper

117 100

82 74.0 53.8 80.8

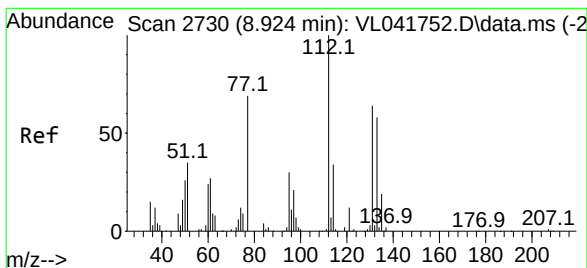
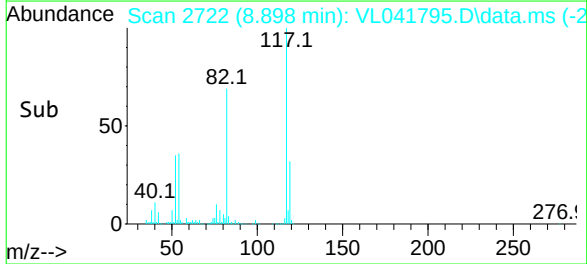
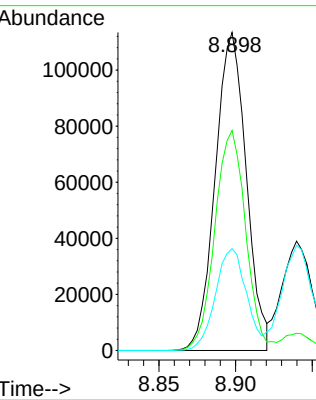
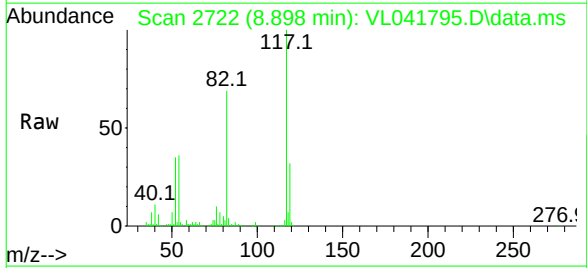
119 32.0 26.7 40.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 10.202 ppbv

RT: 8.943 min Scan# 2736

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

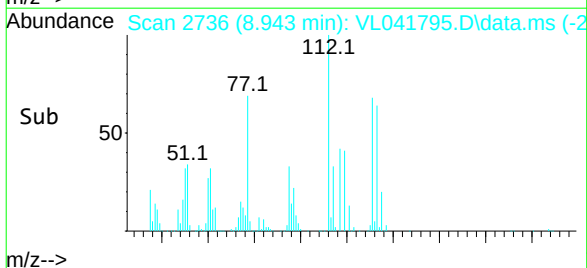
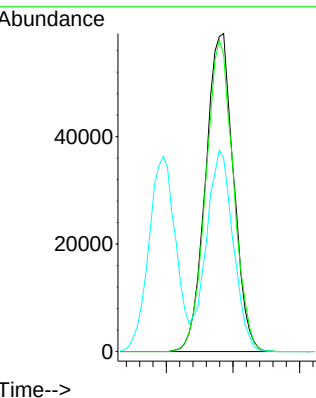
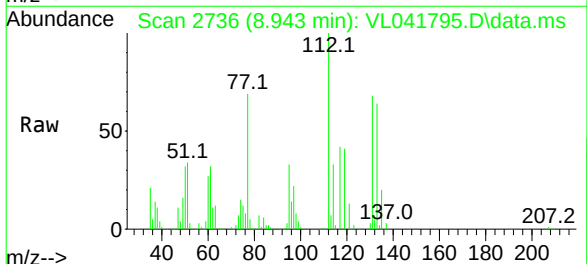
Tgt Ion:131 Resp: 86262

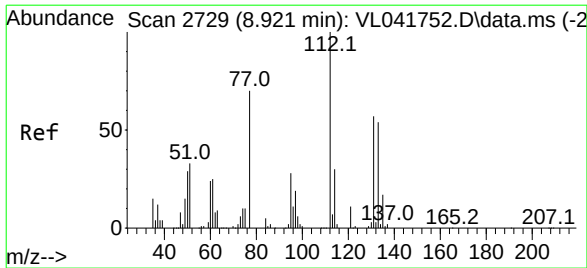
Ion Ratio Lower Upper

131 100

133 96.4 76.8 115.2

119 61.2 49.0 73.6





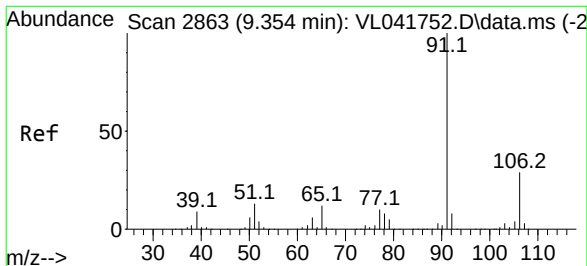
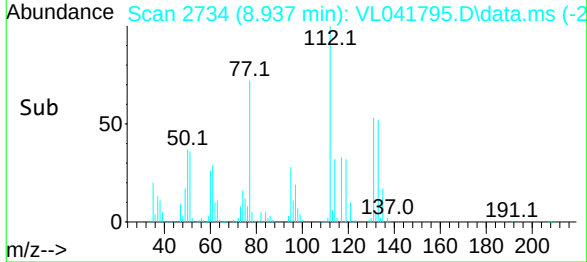
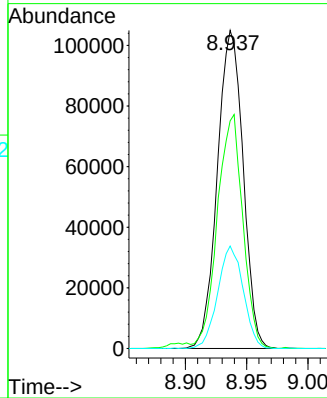
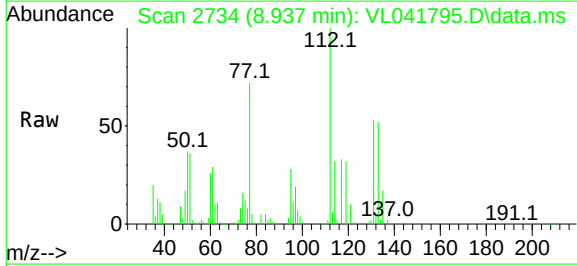
#57
Chlorobenzene
Concen: 9.415 ppbv
RT: 8.937 min Scan# 2729
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 112 Resp: 153659
Ion Ratio Lower Upper
112 100
77 71.6 57.4 86.0
114 32.2 27.4 33.4

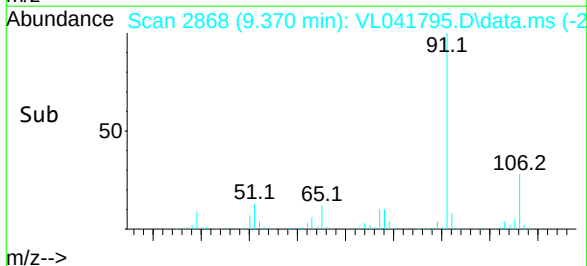
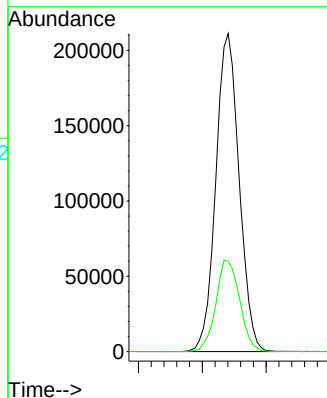
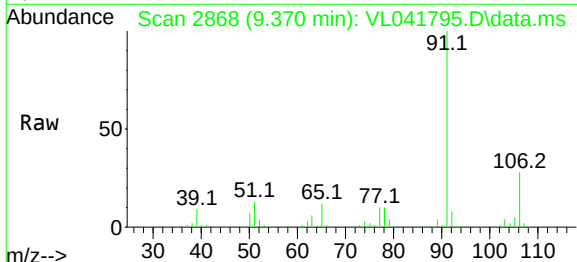
Manual Integrations
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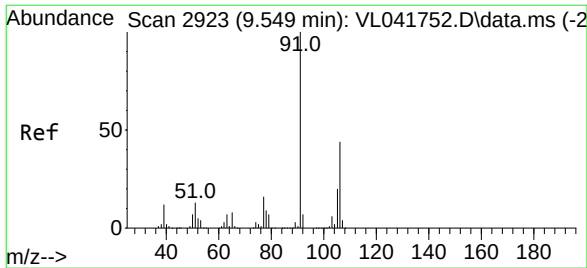
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#58
Ethyl Benzene
Concen: 9.326 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 91 Resp: 267795
Ion Ratio Lower Upper
91 100
106 28.4 23.5 35.3





#59

m/p-Xylene

Concen: 19.747 ppbv m

RT: 9.564 min Scan# 29

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

Tgt Ion: 91 Resp: 455916

Ion Ratio Lower Upper

91 100

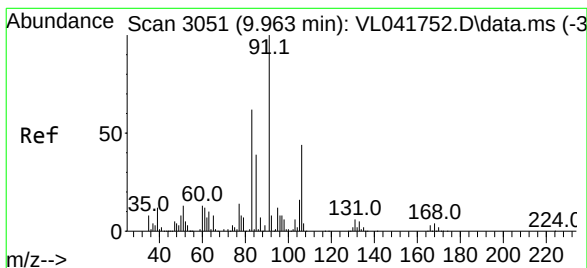
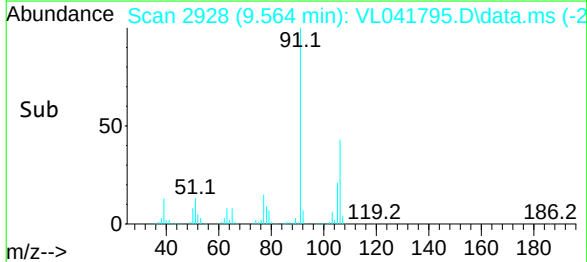
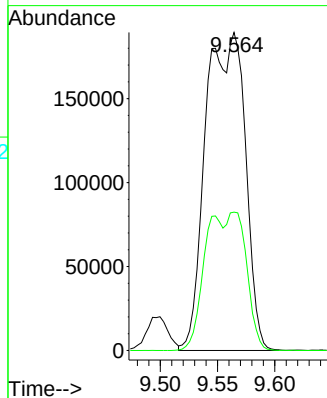
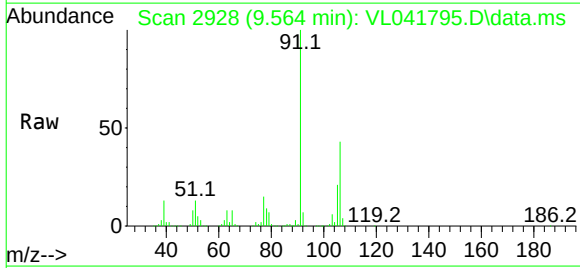
106 45.0 0.0 0.0#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#60

o-Xylene

Concen: 9.930 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL041795.D

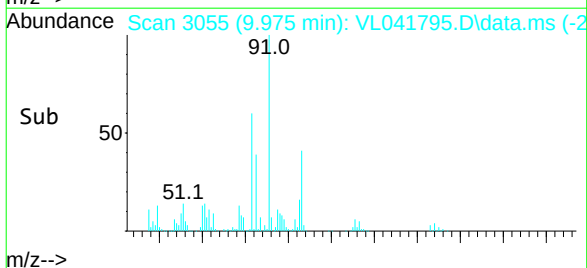
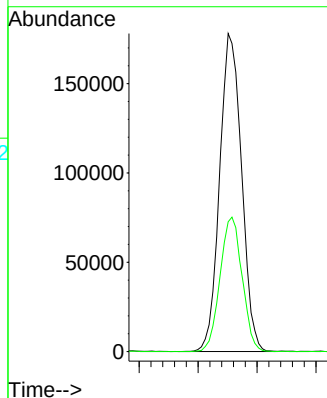
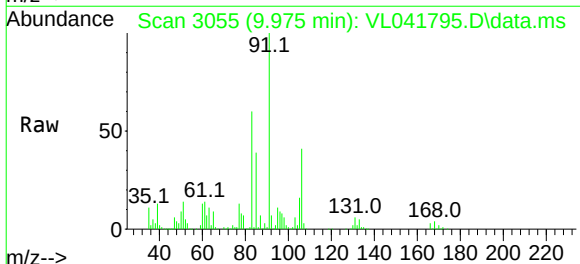
Acq: 18 Dec 2024 16:06

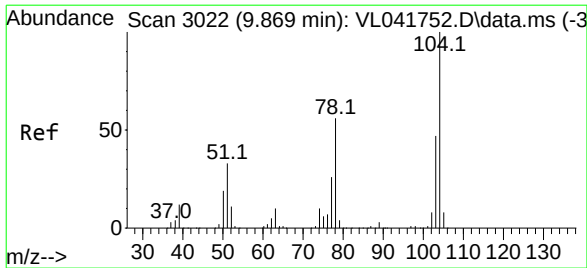
Tgt Ion: 91 Resp: 229919

Ion Ratio Lower Upper

91 100

106 42.5 21.1 63.4





#61

Styrene

Concen: 9.543 ppbv

RT: 9.885 min Scan# 3022

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

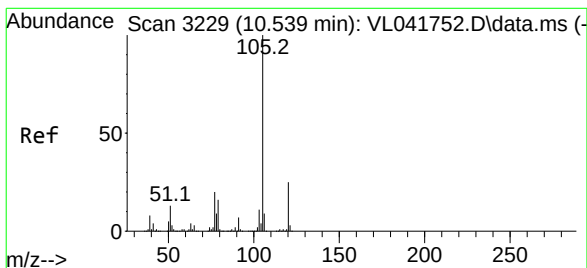
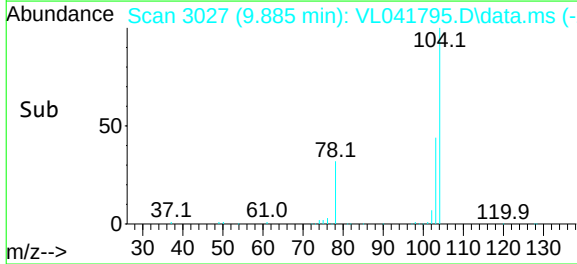
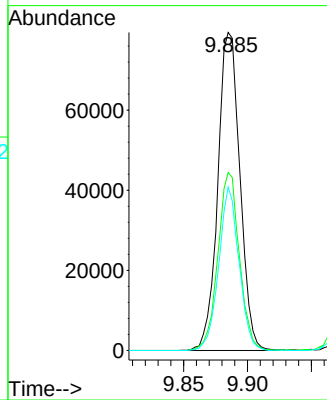
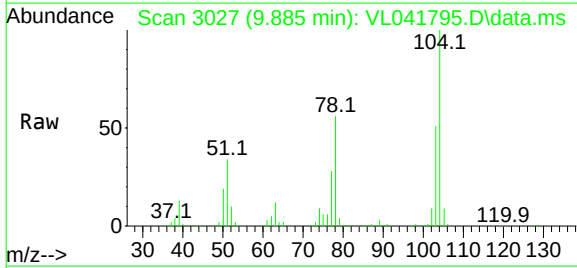
VL1218ABS01

Tgt Ion:	104	Resp:	95536
Ion Ratio	Lower	Upper	
104	100		
78	54.4	43.8	65.6
103	47.1	37.8	56.6

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Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#62

Isopropylbenzene

Concen: 9.762 ppbv

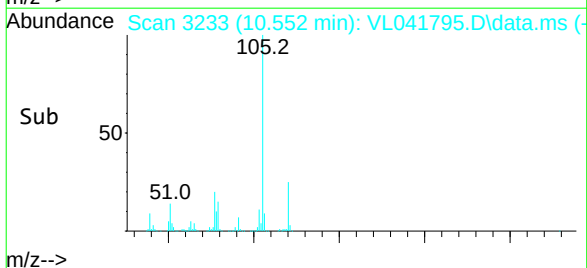
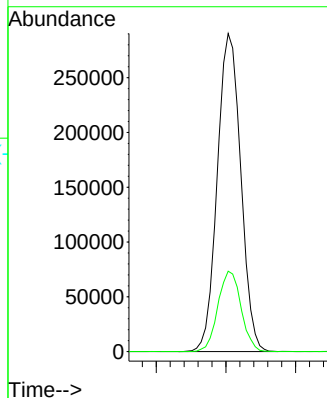
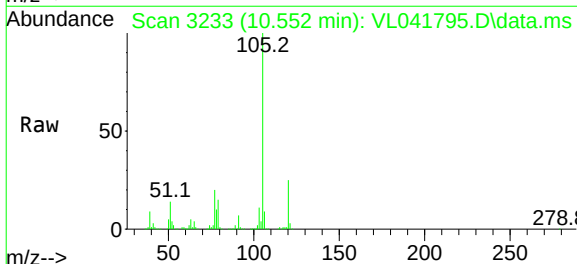
RT: 10.552 min Scan# 3233

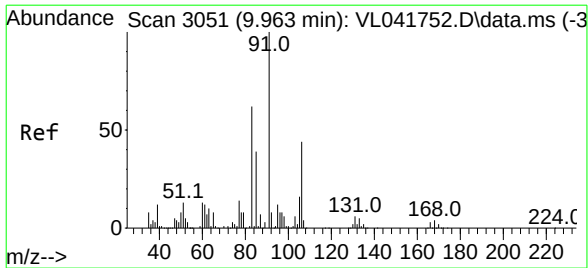
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion:	105	Resp:	339599
Ion Ratio	Lower	Upper	
105	100		
120	24.9	19.8	29.8





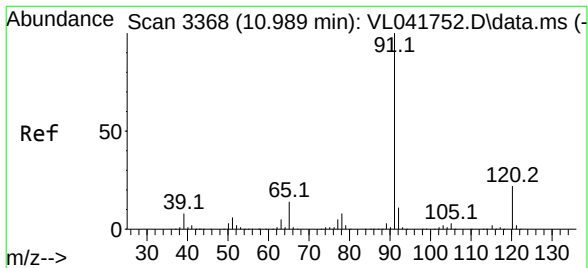
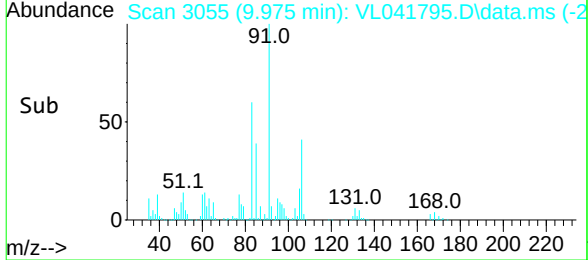
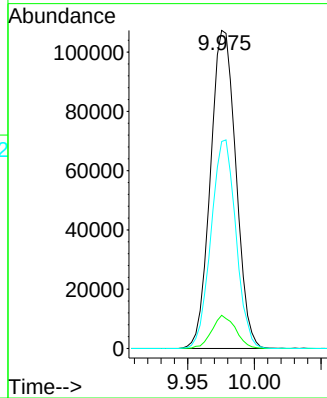
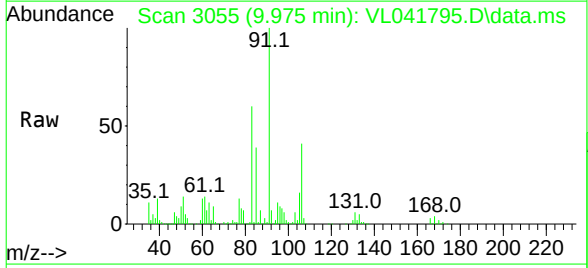
#63
1,1,2,2-Tetrachloroethane
Concen: 9.817 ppbv
RT: 9.975 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument : MSVOA_L
ClientSampleId : VL1218ABS01

Tgt Ion:	83	Resp:	142272
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.1	32.0	96.2

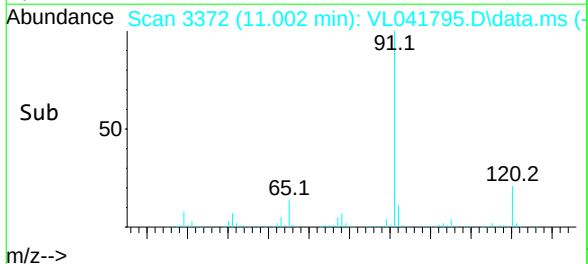
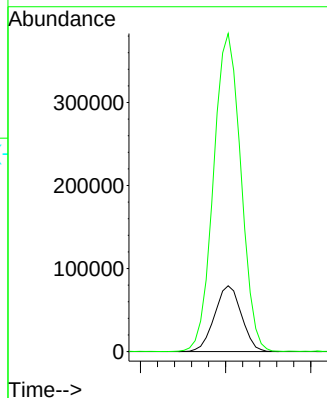
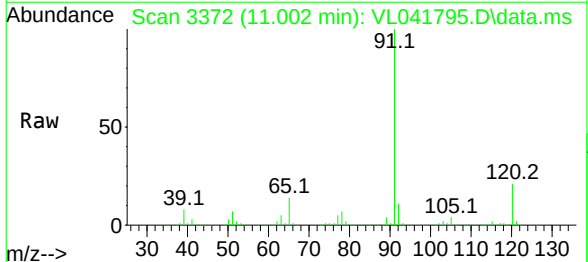
Manual Integrations
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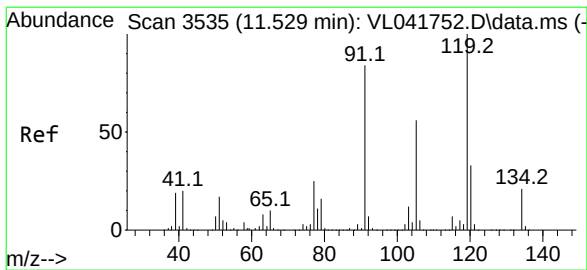
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#64
n-propylbenzene
Concen: 9.880 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:	120	Resp:	86896
Ion	Ratio	Lower	Upper
120	100		
91	493.0	387.3	580.9





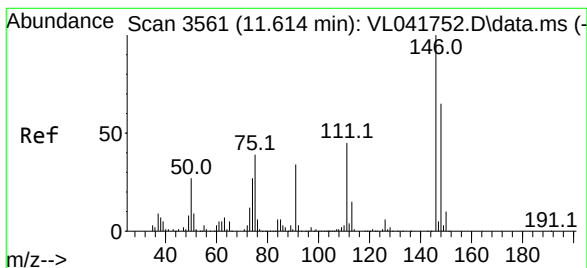
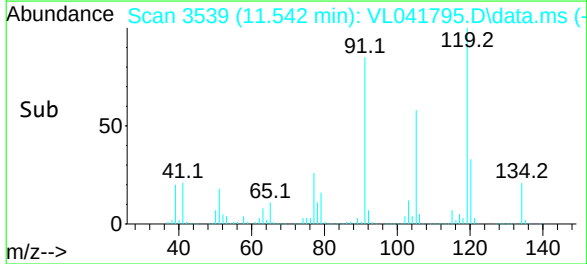
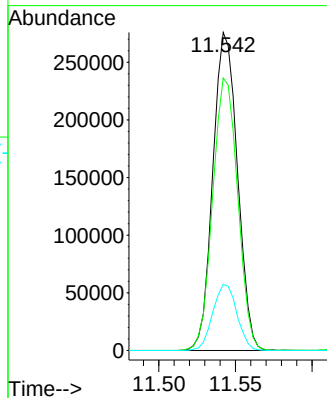
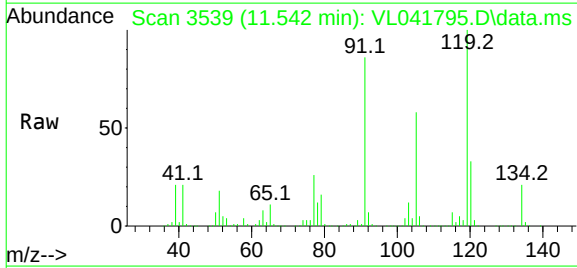
#65
tert-Butylbenzene
Concen: 9.808 ppbv
RT: 11.542 min Scan# 3535
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion:119 Resp: 307835
Ion Ratio Lower Upper
119 100
91 87.3 67.0 100.4
134 20.4 16.5 24.7

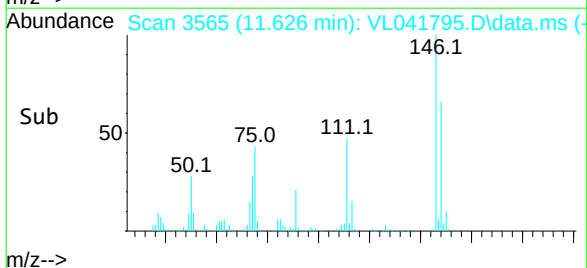
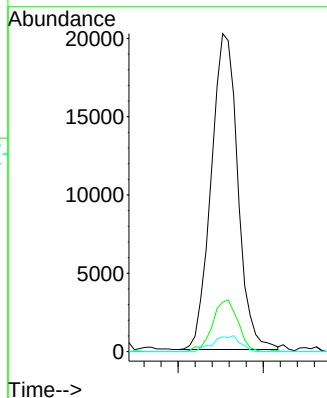
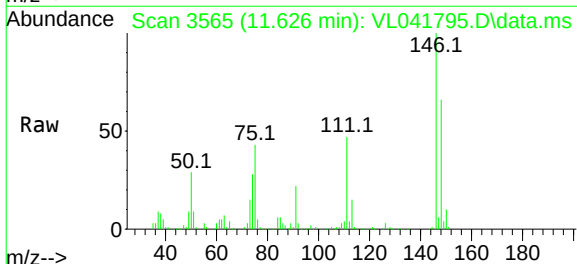
Manual Integrations
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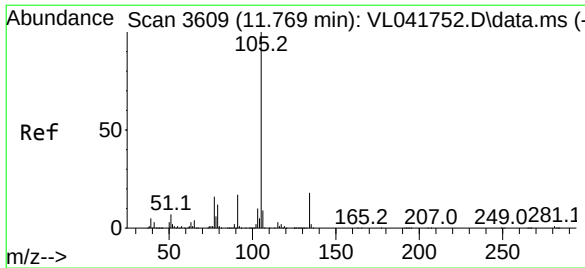
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#66
Benzyl Chloride
Concen: 7.936 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

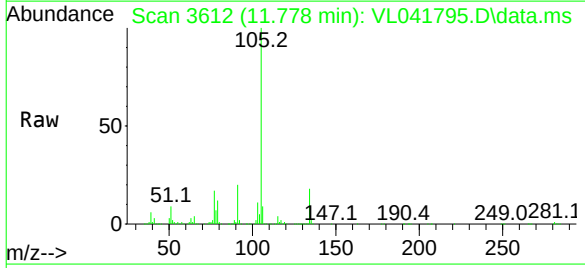
Tgt Ion: 91 Resp: 21939
Ion Ratio Lower Upper
91 100
126 15.7 13.9 20.9
128 5.1 4.4 6.6





#67
sec-Butylbenzene
Concen: 10.167 ppbv
RT: 11.778 min Scan# 3609
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

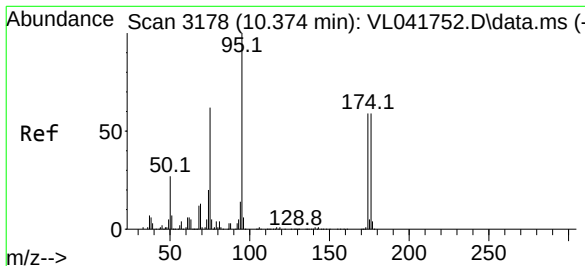
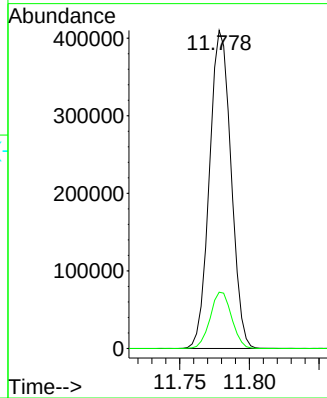
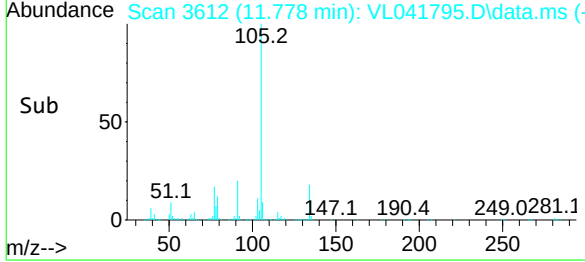
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 105 Resp: 441578
Ion Ratio Lower Upper
105 100
134 17.6 14.5 21.7

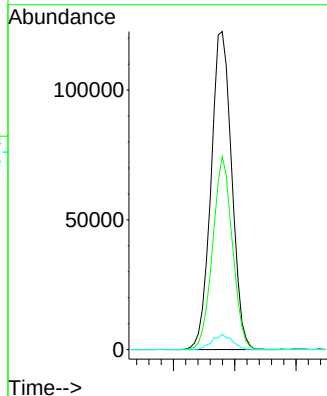
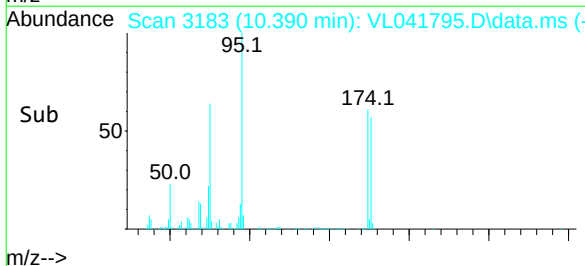
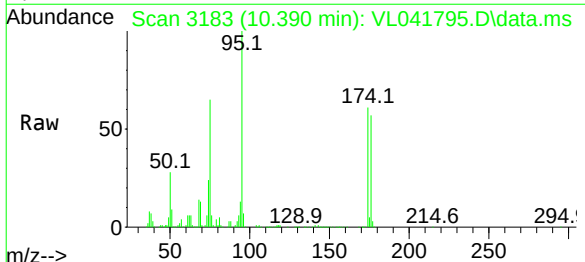
Manual Integrations
APPROVED

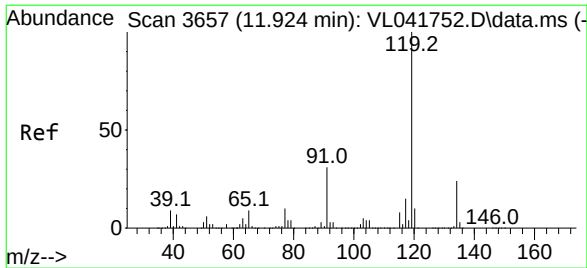
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.825 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 95 Resp: 143879
Ion Ratio Lower Upper
95 100
174 57.9 47.6 71.4
175 4.6 3.7 5.5





#69

p-Isopropyltoluene

Concen: 10.229 ppbv

RT: 11.937 min Scan# 3661

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

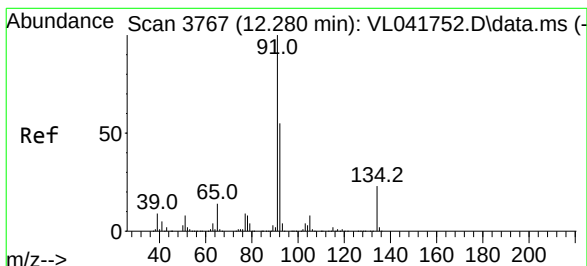
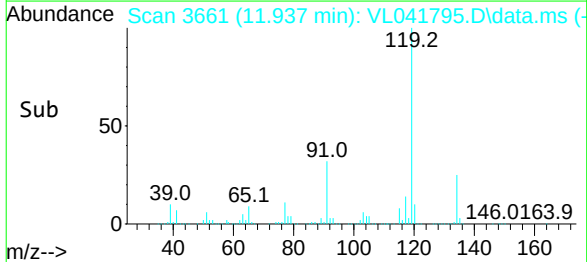
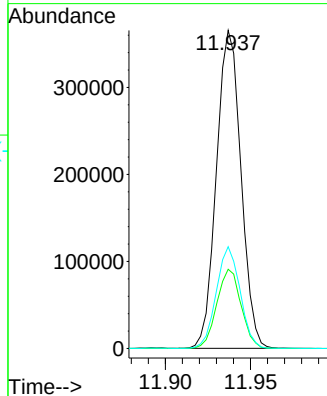
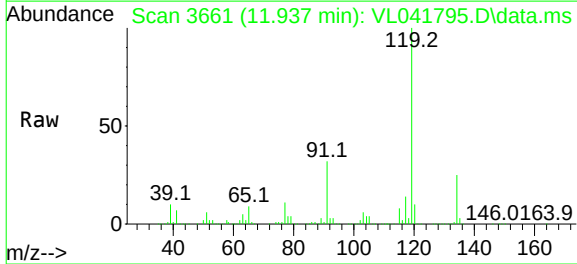
VL1218ABS01

Tgt Ion:	119	Resp:	366111
Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.6	29.4
91	31.3	24.4	36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#70

n-Butylbenzene

Concen: 10.597 ppbv

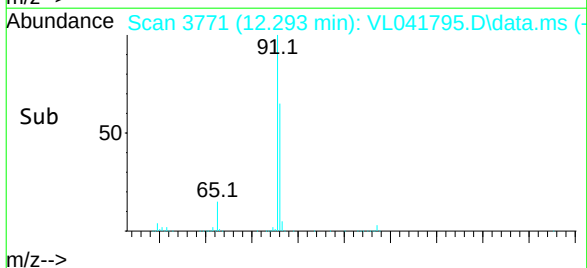
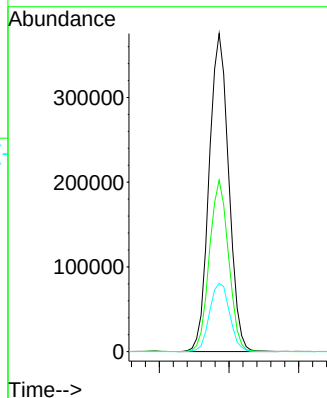
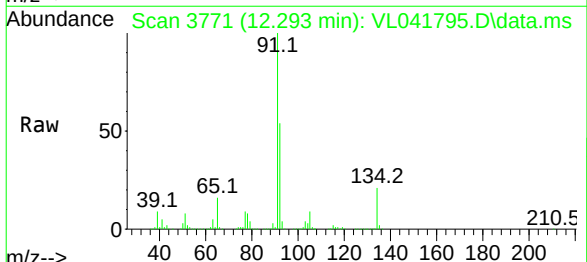
RT: 12.293 min Scan# 3771

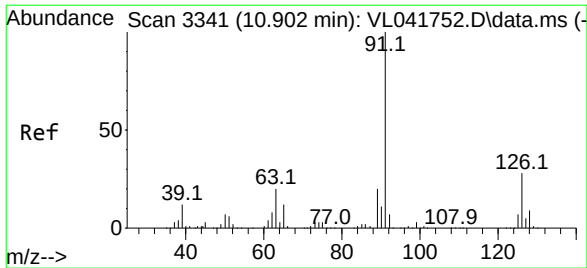
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

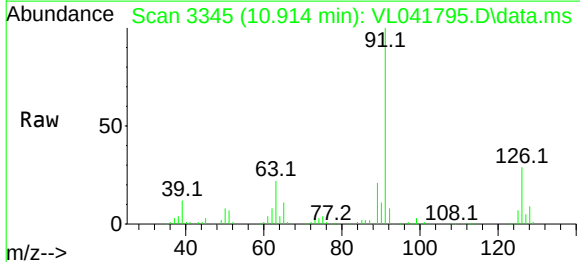
Tgt Ion:	91	Resp:	366451
Ion	Ratio	Lower	Upper
91	100		
92	52.8	43.2	64.8
134	22.0	18.2	27.4





#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.914 min Scan# 3341
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

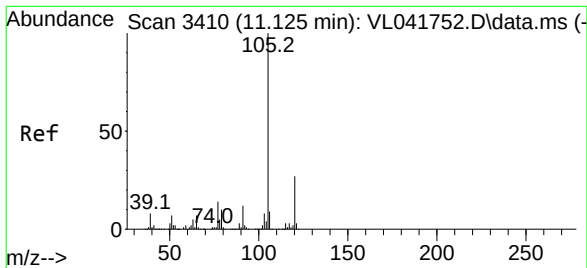
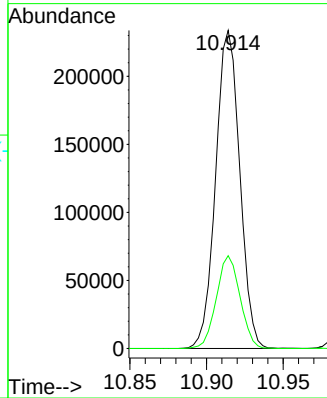
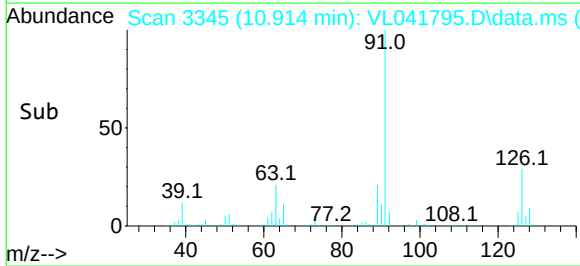
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



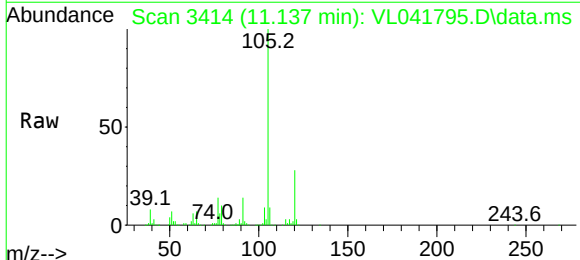
Tgt Ion: 91 Resp: 255496
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4

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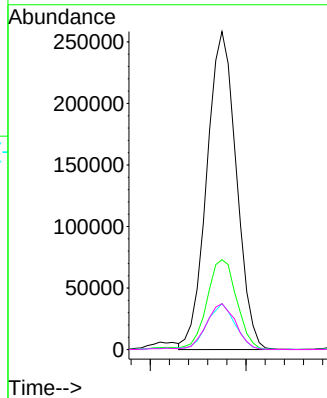
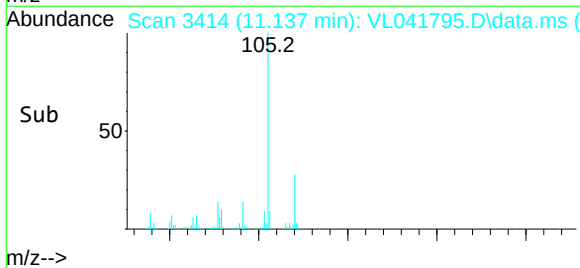
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

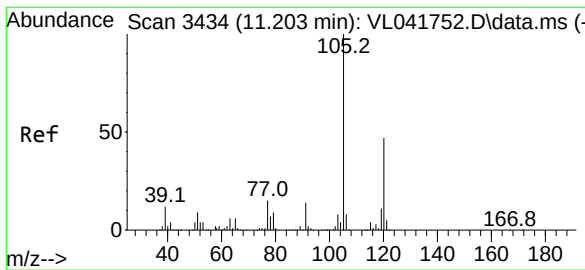


#72
4-Ethyltoluene
Concen: 10.137 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



Tgt Ion:105 Resp: 277025
Ion Ratio Lower Upper
105 100
120 29.1 23.3 34.9
91 14.4 10.9 16.3
77 14.8 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 10.613 ppbv

RT: 11.215 min Scan# 341

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

Tgt Ion:105 Resp: 240648

Ion Ratio Lower Upper

105 100

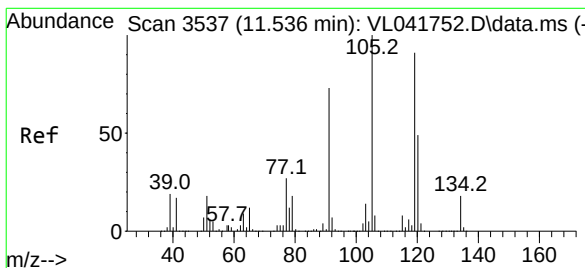
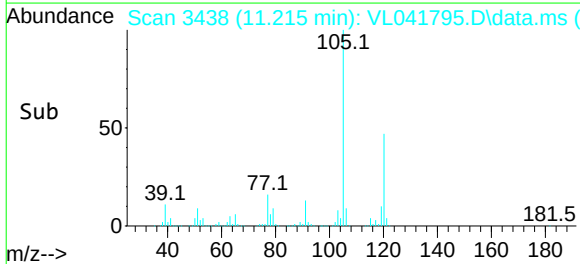
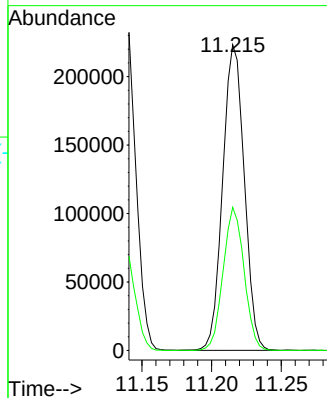
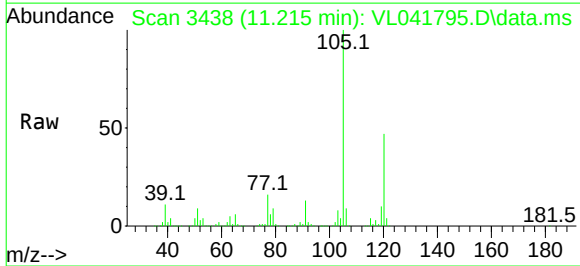
120 46.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#74

1,2,4-Trimethylbenzene

Concen: 10.679 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion:105 Resp: 260378

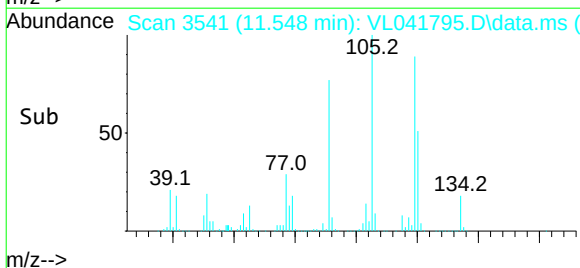
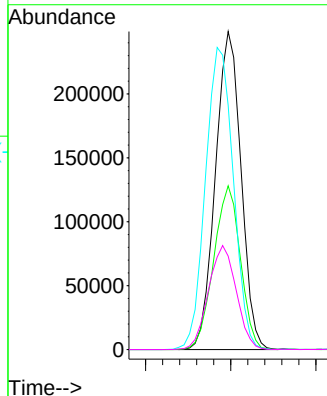
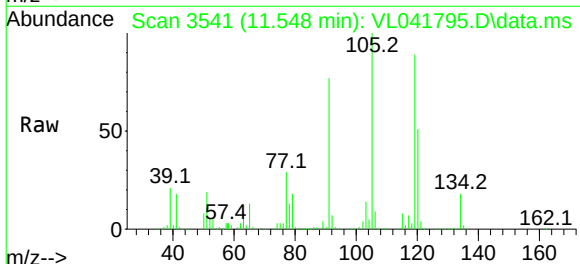
Ion Ratio Lower Upper

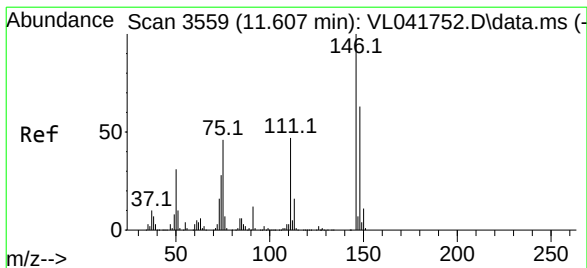
105 100

120 51.5 39.0 58.4

91 76.7 58.1 87.1

77 29.4 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 9.809 ppbv

RT: 11.620 min Scan# 3559

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

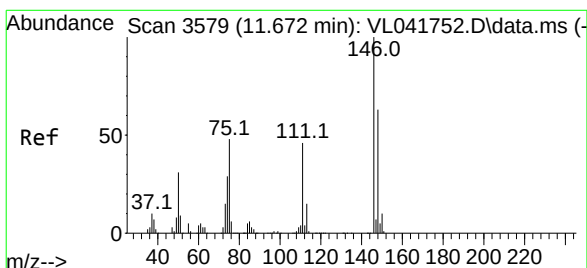
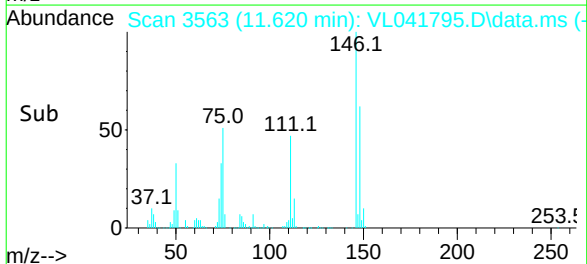
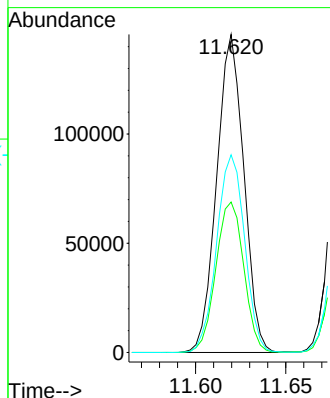
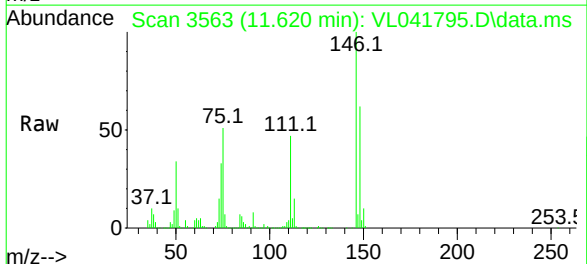
VL1218ABS01

Tgt	Ion:146	Resp:	152493
Ion	Ratio	Lower	Upper
146	100		
111	48.7	23.4	70.3
148	64.1	31.6	95.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#76

1,4-Dichlorobenzene

Concen: 9.926 ppbv

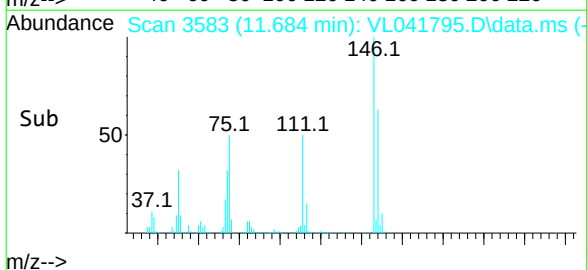
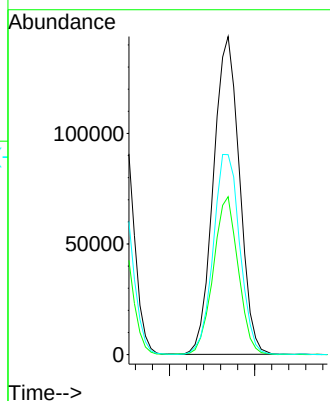
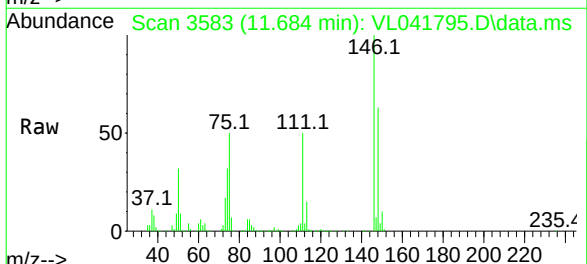
RT: 11.684 min Scan# 3583

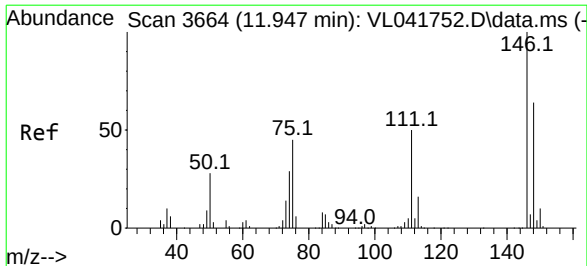
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

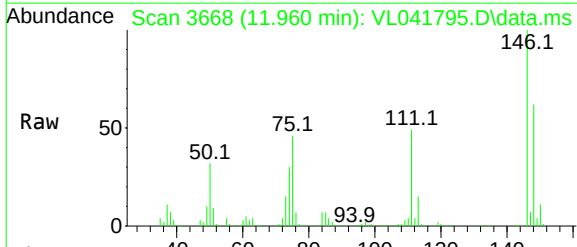
Tgt	Ion:146	Resp:	152432
Ion	Ratio	Lower	Upper
146	100		
111	47.8	22.7	68.1
148	64.5	31.4	94.0





#77
1,2-Dichlorobenzene
Concen: 9.922 ppbv
RT: 11.960 min Scan# 3668
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

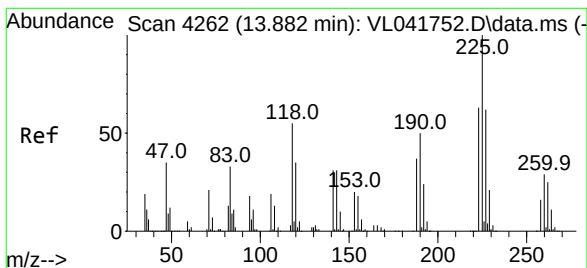
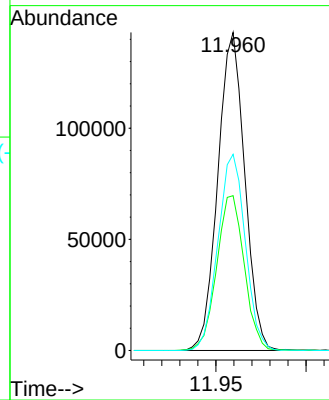
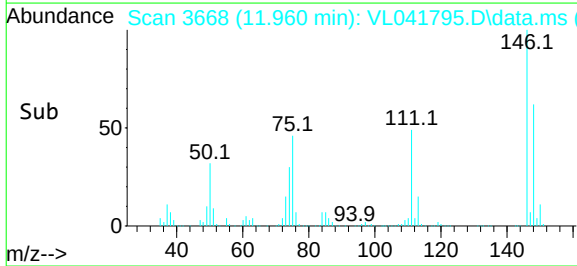
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



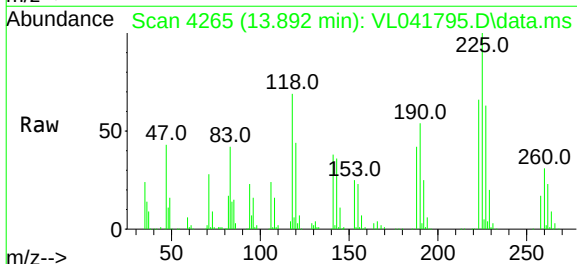
Tgt Ion:146 Resp: 148412
Ion Ratio Lower Upper
146 100
111 50.0 24.8 74.3
148 62.8 31.8 95.4

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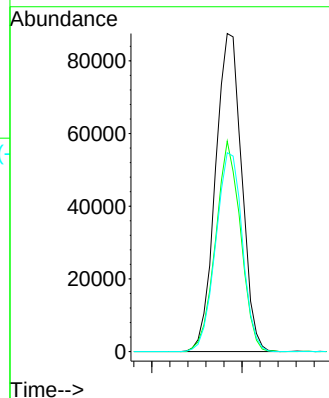
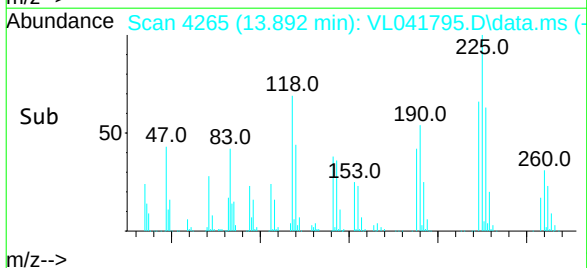
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

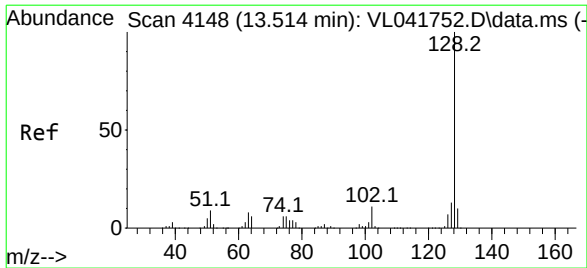


#78
Hexachloro-1,3-Butadiene
Concen: 7.987 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



Tgt Ion:225 Resp: 88582
Ion Ratio Lower Upper
225 100
223 62.9 50.5 75.7
227 63.3 50.3 75.5





#79

Naphthalene

Concen: 11.154 ppbv

RT: 13.523 min Scan# 4148

Delta R.T. 0.009 min

Lab File: VL041795.D

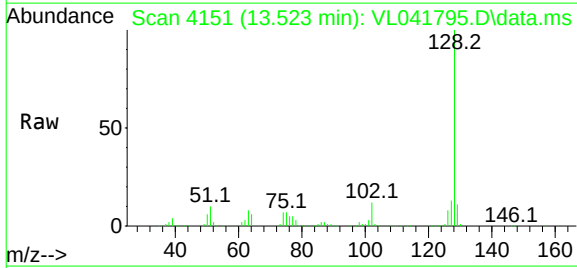
Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

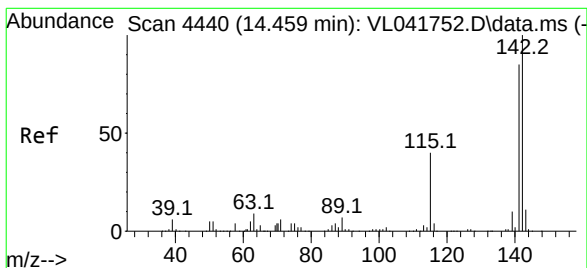
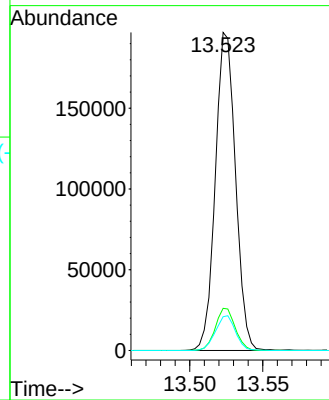
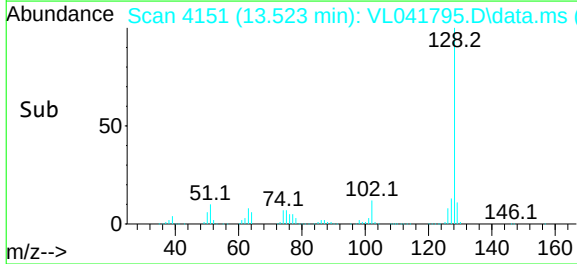


Tgt Ion:	128	Resp:	189506
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.7	16.1
129	10.6	8.2	12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#80

Naphthalene,2-methyl-

Concen: 15.634 ppbv

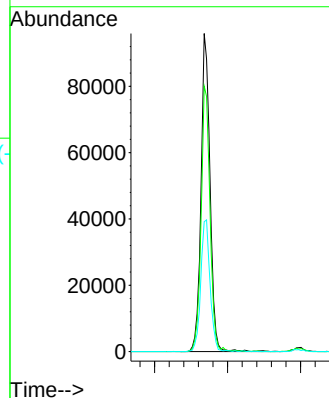
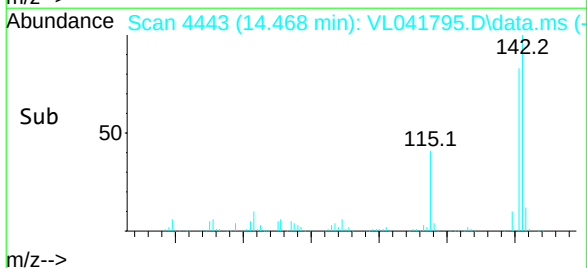
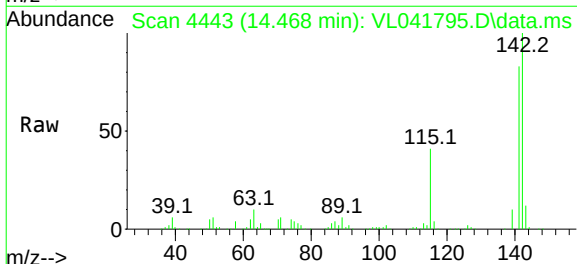
RT: 14.468 min Scan# 4443

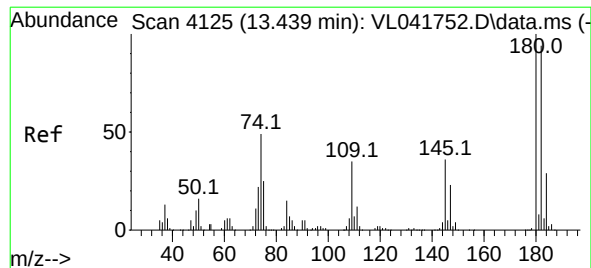
Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

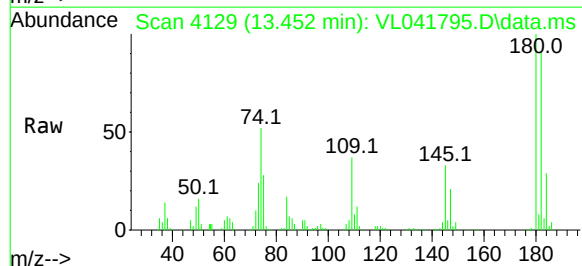
Tgt Ion:	142	Resp:	82155
Ion Ratio	Lower	Upper	
142	100		
141	82.5	68.4	102.6
115	43.2	32.5	48.7





#81
 1,2,4-Trichlorobenzene
 Concen: 9.592 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

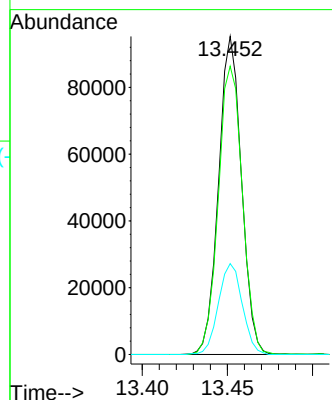
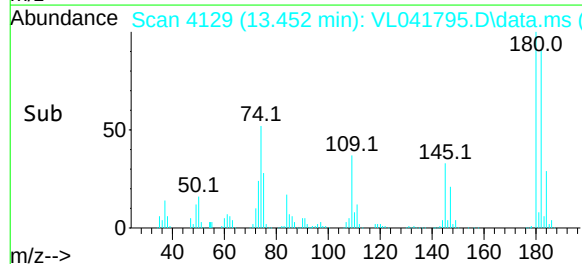
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01



Tgt Ion:	180	Resp:	89052
Ion Ratio	Lower	Upper	
180	100		
182	95.5	77.0	115.6
184	29.8	23.8	35.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



Manual Integration Report

Sequence:	VL121624	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041752.D	m/p-Xylene	SAM	12/20/2024 4:34:05 AM	MMDadoda	12/20/2024 4:37:21 AM	Peak Integrated by Software
VSTDICCC002	VL041753.D	1,4-Dioxane	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software
VSTDICCC002	VL041753.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software
VSTDICCC002	VL041753.D	m/p-Xylene	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Carbon Tetrachloride	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Ethanol	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	m/p-Xylene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Methyl Methacrylate	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Tetrachloroethene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Trichloroethene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC0.5	VL041755.D	1,1,1,2-Tetrachloroethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL121624	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041755.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	1,2-Dibromoethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	1,2-Dichloropropane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	1,4-Dioxane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	2,2,4-Trimethylpentane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	4-Methyl-2-Pentanone	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Benzyl Chloride	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Bromodichloromethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Bromoform	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Chlorobenzene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Ethanol	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Heptane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL121624	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041755.D	m/p-Xylene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	t-1,3-Dichloropropene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Trichloroethene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	1,1,2,2-Tetrachloroethane	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	1,2-Dibromoethane	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	Tetrachloroethene	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	Trichloroethene	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	1,1,1-Trichloroethane	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	Carbon Tetrachloride	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	Tetrachloroethene	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	Trichloroethene	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC015	VL041758.D	m/p-Xylene	SAM	12/20/2024 4:34:14 AM	MMDadoda	12/20/2024 4:37:32 AM	Peak Integrated by Software
VSTDICV010	VL041759.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL121624	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL041759.D	Ethanol	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software
VSTDICV010	VL041759.D	m/p-Xylene	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software
VSTDCCC010	VL041769.D	m/p-Xylene	SAM	12/20/2024 4:34:46 AM	MMDadoda	12/20/2024 4:38:03 AM	Peak Integrated by Software
VSTDCCC010	VL041769.D	Methyl Methacrylate	SAM	12/20/2024 4:34:46 AM	MMDadoda	12/20/2024 4:38:03 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl121824	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041788.D	cis-1,3-Dichloropropene	SAM	12/19/2024 12:18:09 PM	MMDadoda	12/19/2024 2:45:22 PM	Peak Integrated by Software
VSTDCCC010	VL041788.D	Ethanol	SAM	12/19/2024 12:18:09 PM	MMDadoda	12/19/2024 2:45:22 PM	Peak Integrated by Software
VSTDCCC010	VL041788.D	m/p-Xylene	SAM	12/19/2024 12:18:09 PM	MMDadoda	12/19/2024 2:45:22 PM	Peak Integrated by Software
VL1218ABS01	VL041795.D	m/p-Xylene	SAM	12/19/2024 12:19:16 PM	MMDadoda	12/19/2024 2:45:27 PM	Peak Integrated by Software
P5293-01	VL041797.D	2,2,4-Trimethylpentane	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software
P5293-01	VL041797.D	Carbon Tetrachloride	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software
P5293-01	VL041797.D	Chlorodifluoromethane	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software
P5293-01	VL041797.D	m/p-Xylene	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software
P5293-01	VL041797.D	Propene	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software
P5293-01	VL041797.D	Toluene	SAM	12/19/2024 12:18:25 PM	MMDadoda	12/19/2024 2:45:28 PM	Peak Integrated by Software
P5293-01DUP	VL041798.D	2,2,4-Trimethylpentane	SAM	12/19/2024 12:19:02 PM	MMDadoda	12/19/2024 2:45:30 PM	Peak Integrated by Software
P5293-01DUP	VL041798.D	Carbon Tetrachloride	SAM	12/19/2024 12:19:02 PM	MMDadoda	12/19/2024 2:45:30 PM	Peak Integrated by Software
P5293-01DUP	VL041798.D	Chlorodifluoromethane	SAM	12/19/2024 12:19:02 PM	MMDadoda	12/19/2024 2:45:30 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl121824	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5293-01DUP	VL041798.D	m/p-Xylene	SAM	12/19/2024 12:19:02 PM	MMDadoda	12/19/2024 2:45:30 PM	Peak Integrated by Software
P5293-01DUP	VL041798.D	Propene	SAM	12/19/2024 12:19:02 PM	MMDadoda	12/19/2024 2:45:30 PM	Peak Integrated by Software
P5293-02	VL041799.D	Carbon Tetrachloride	SAM	12/19/2024 12:19:20 PM	MMDadoda	12/19/2024 2:45:33 PM	Peak Integrated by Software
P5293-02	VL041799.D	Chlorodifluoromethane	SAM	12/19/2024 12:19:20 PM	MMDadoda	12/19/2024 2:45:33 PM	Peak Integrated by Software
P5293-02	VL041799.D	Ethyl Acetate	SAM	12/19/2024 12:19:20 PM	MMDadoda	12/19/2024 2:45:33 PM	Peak Integrated by Software
P5293-02	VL041799.D	Heptane	SAM	12/19/2024 12:19:20 PM	MMDadoda	12/19/2024 2:45:33 PM	Peak Integrated by Software
P5293-02	VL041799.D	m/p-Xylene	SAM	12/19/2024 12:19:20 PM	MMDadoda	12/19/2024 2:45:33 PM	Peak Integrated by Software
P5293-03	VL041800.D	4-Methyl-2-Pentanone	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software
P5293-03	VL041800.D	Bromodichloromethane	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software
P5293-03	VL041800.D	Carbon Tetrachloride	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software
P5293-03	VL041800.D	Chlorodifluoromethane	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software
P5293-03	VL041800.D	Ethyl Benzene	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software
P5293-03	VL041800.D	Heptane	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vl121824

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5293-03	VL041800.D	n-propylbenzene	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software
P5293-03	VL041800.D	Naphthalene	SAM	12/19/2024 12:19:25 PM	MMDadoda	12/19/2024 2:45:34 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Mahesh Dadoda	Review On	12/18/2024 8:44:47 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM		
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2556			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560,MDL,AP2561,AP2562			
Internal Standard/PEM		AP2556			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041750.D	16 Dec 2024 12:02	SY/MD	Ok
2	VSTDIC0.5	VL041751.D	16 Dec 2024 12:59	SY/MD	Not Ok
3	VSTDICCC010	VL041752.D	16 Dec 2024 13:30	SY/MD	Ok,M
4	VSTDIC002	VL041753.D	16 Dec 2024 14:03	SY/MD	Ok,M
5	VSTDIC001	VL041754.D	16 Dec 2024 14:34	SY/MD	Ok,M
6	VSTDIC0.5	VL041755.D	16 Dec 2024 15:05	SY/MD	Ok,M
7	VSTDIC0.1	VL041756.D	16 Dec 2024 15:37	SY/MD	Ok,M
8	VSTDIC0.03	VL041757.D	16 Dec 2024 16:08	SY/MD	Ok,M
9	VSTDIC015	VL041758.D	16 Dec 2024 16:41	SY/MD	Ok,M
10	VSTDICV010	VL041759.D	16 Dec 2024 18:59	SY/MD	Ok,M
11	VL1216ABL01	VL041760.D	16 Dec 2024 20:20	SY/MD	Ok
12	VL1216ABL02	VL041761.D	16 Dec 2024 20:51	SY/MD	Ok
13	VL1216ABL03	VL041762.D	16 Dec 2024 21:21	SY/MD	Ok
14	MDL 0.4	VL041763.D	16 Dec 2024 21:52	SY/MD	Ok,M
15	MDL 0.4	VL041764.D	16 Dec 2024 22:23	SY/MD	Ok,M
16	MDL 0.4	VL041765.D	16 Dec 2024 22:54	SY/MD	Ok,M
17	MDL 0.03	VL041766.D	16 Dec 2024 23:24	SY/MD	Ok,M
18	MDL 0.03	VL041767.D	16 Dec 2024 23:55	SY/MD	Ok,M
19	VL1216ABS01	VL041768.D	17 Dec 2024 00:57	SY/MD	Ok,M
20	VSTDCCC010	VL041769.D	17 Dec 2024 07:59	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121824

Review By	Semsettin Yesilyurt	Review On	12/19/2024 1:32:59 PM		
Supervise By	Maresh Dadoda	Supervise On	12/19/2024 2:45:49 PM		
SubDirectory	VL121824	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2556			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560,MDL,AP2561,AP2562			
Internal Standard/PEM		AP2556			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041787.D	18 Dec 2024 08:06	SY/MD	Ok
2	VSTDCCC010	VL041788.D	18 Dec 2024 10:29	SY/MD	Ok,M
3	VL1218ABL01	VL041789.D	18 Dec 2024 11:57	SY/MD	Ok
4	VL1218ABL02	VL041790.D	18 Dec 2024 12:28	SY/MD	Ok
5	MDL 0.4	VL041791.D	18 Dec 2024 12:59	SY/MD	Ok,NR
6	MDL 0.4	VL041792.D	18 Dec 2024 13:30	SY/MD	Ok,NR
7	MDL 0.03	VL041793.D	18 Dec 2024 14:32	SY/MD	Ok,M
8	MDL 0.03	VL041794.D	18 Dec 2024 15:03	SY/MD	Ok,M
9	VL1218ABS01	VL041795.D	18 Dec 2024 16:06	SY/MD	Ok,M
10	QC121724 CAN 10158	VL041796.D	18 Dec 2024 16:37	SY/MD	Ok
11	P5293-01	VL041797.D	18 Dec 2024 17:10	SY/MD	Ok,M
12	P5293-01DUP	VL041798.D	18 Dec 2024 17:43	SY/MD	Ok,M
13	P5293-02	VL041799.D	18 Dec 2024 18:17	SY/MD	Ok,M
14	P5293-03	VL041800.D	18 Dec 2024 18:50	SY/MD	Dilution
15	P5296-01	VL041801.D	18 Dec 2024 19:24	SY/MD	Ok,M
16	P5294-01	VL041802.D	18 Dec 2024 19:58	SY/MD	Ok,M
17	P5294-02	VL041803.D	18 Dec 2024 20:32	SY/MD	Ok,M
18	P5294-03	VL041804.D	18 Dec 2024 21:03	SY/MD	Not Ok
19	P5292-01	VL041805.D	18 Dec 2024 21:35	SY/MD	Not Ok
20	P5292-02	VL041806.D	18 Dec 2024 22:06	SY/MD	Not Ok
21	P5295-01	VL041807.D	18 Dec 2024 22:37	SY/MD	Dilution

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121824

Review By	Semsettin Yesilyurt	Review On	12/19/2024 1:32:59 PM		
Supervise By	Mahesh Dadoda	Supervise On	12/19/2024 2:45:49 PM		
SubDirectory	VL121824	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2556				
Initial Calibration Stds	AP2560,AP2561,AP2562				
CCC	AP2560,MDL,AP2561,AP2562				
Internal Standard/PEM	AP2556				
ICV/I.BLK	AP2558				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P5295-02	VL041808.D	18 Dec 2024 23:08	SY/MD	Ok
23	VIBLK	VL041809.D	18 Dec 2024 23:40	SY/MD	Ok
24	P5293-03DL	VL041810.D	19 Dec 2024 00:11	SY/MD	Ok
25	P5294-03	VL041811.D	19 Dec 2024 00:44	SY/MD	Ok
26	P5292-01	VL041812.D	19 Dec 2024 01:18	SY/MD	Ok
27	P5292-02	VL041813.D	19 Dec 2024 01:55	SY/MD	Ok
28	P5295-01DL	VL041814.D	19 Dec 2024 02:26	SY/MD	Ok
29	P5295-02	VL041815.D	19 Dec 2024 02:59	SY/MD	Dilution
30	VSTDCCC010	VL041816.D	19 Dec 2024 03:31	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Mahesh Dadoda	Review On	12/18/2024 8:44:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M HP Processing Method VL121624AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041750.D	16 Dec 2024 12:02		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL041751.D	16 Dec 2024 12:59	Not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041752.D	16 Dec 2024 13:30	Method failed for Comp.#,80	SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL041753.D	16 Dec 2024 14:03		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL041754.D	16 Dec 2024 14:34		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL041755.D	16 Dec 2024 15:05		SY/MD	Ok,M
7	VSTDIC0.1	VSTDIC0.1	VL041756.D	16 Dec 2024 15:37		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL041757.D	16 Dec 2024 16:08		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL041758.D	16 Dec 2024 16:41		SY/MD	Ok,M
10	VSTDICV010	ICVVL121624	VL041759.D	16 Dec 2024 18:59		SY/MD	Ok,M
11	VL1216ABL01	VL1216ABL01	VL041760.D	16 Dec 2024 20:20		SY/MD	Ok
12	VL1216ABL02	VL1216ABL02	VL041761.D	16 Dec 2024 20:51		SY/MD	Ok
13	VL1216ABL03	VL1216ABL03	VL041762.D	16 Dec 2024 21:21		SY/MD	Ok
14	MDL 0.4	MDL 0.4	VL041763.D	16 Dec 2024 21:52		SY/MD	Ok,M
15	MDL 0.4	MDL 0.4	VL041764.D	16 Dec 2024 22:23		SY/MD	Ok,M
16	MDL 0.4	MDL 0.4	VL041765.D	16 Dec 2024 22:54		SY/MD	Ok,M
17	MDL 0.03	MDL 0.03	VL041766.D	16 Dec 2024 23:24		SY/MD	Ok,M
18	MDL 0.03	MDL 0.03	VL041767.D	16 Dec 2024 23:55		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Maresh Dadoda	Review On	12/18/2024 8:44:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL121624AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VL1216ABS01	VL1216ABS01	VL041768.D	17 Dec 2024 00:57		SY/MD	Ok,M
20	VSTDCCC010	VSTDCCC010EC	VL041769.D	17 Dec 2024 07:59		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121824

Review By	Semsettin Yesilyurt	Review On	12/19/2024 1:32:59 PM
Supervise By	Mahesh Dadoda	Supervise On	12/19/2024 2:45:49 PM
SubDirectory	VL121824	HP Acquire Method	TO15AIR.M HP Processing Method VL121624AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041787.D	18 Dec 2024 08:06		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041788.D	18 Dec 2024 10:29		SY/MD	Ok,M
3	VL1218ABL01	VL1218ABL01	VL041789.D	18 Dec 2024 11:57		SY/MD	Ok
4	VL1218ABL02	VL1218ABL02	VL041790.D	18 Dec 2024 12:28		SY/MD	Ok
5	MDL 0.4	MDL 0.4	VL041791.D	18 Dec 2024 12:59		SY/MD	Ok,NR
6	MDL 0.4	MDL 0.4	VL041792.D	18 Dec 2024 13:30		SY/MD	Ok,NR
7	MDL 0.03	MDL 0.03	VL041793.D	18 Dec 2024 14:32		SY/MD	Ok,M
8	MDL 0.03	MDL 0.03	VL041794.D	18 Dec 2024 15:03		SY/MD	Ok,M
9	VL1218ABS01	VL1218ABS01	VL041795.D	18 Dec 2024 16:06		SY/MD	Ok,M
10	QC121724 CAN 10158	QC121724 CAN 10158	VL041796.D	18 Dec 2024 16:37		SY/MD	Ok
11	P5293-01	C0AB9	VL041797.D	18 Dec 2024 17:10		SY/MD	Ok,M
12	P5293-01DUP	C0AB9DUP	VL041798.D	18 Dec 2024 17:43	Not match for Ethanol	SY/MD	Ok,M
13	P5293-02	C0AC0	VL041799.D	18 Dec 2024 18:17		SY/MD	Ok,M
14	P5293-03	C0AC1	VL041800.D	18 Dec 2024 18:50	Need 2X	SY/MD	Dilution
15	P5296-01	C0AC2	VL041801.D	18 Dec 2024 19:24		SY/MD	Ok,M
16	P5294-01	C0AB6	VL041802.D	18 Dec 2024 19:58		SY/MD	Ok,M
17	P5294-02	C0AB7	VL041803.D	18 Dec 2024 20:32		SY/MD	Ok,M
18	P5294-03	C0AB8	VL041804.D	18 Dec 2024 21:03	Need Straight Run	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121824

Review By	Semsettin Yesilyurt	Review On	12/19/2024 1:32:59 PM		
Supervise By	Mahesh Dadoda	Supervise On	12/19/2024 2:45:49 PM		
SubDirectory	VL121824	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2556			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560,MDL,AP2561,AP2562			
Internal Standard/PEM		AP2556			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P5292-01	C0AC5	VL041805.D	18 Dec 2024 21:35	Need Straight Run	SY/MD	Not Ok
20	P5292-02	C0AC6	VL041806.D	18 Dec 2024 22:06	Need Straight Run	SY/MD	Not Ok
21	P5295-01	C0AC8	VL041807.D	18 Dec 2024 22:37	Need 10X	SY/MD	Dilution
22	P5295-02	C0AC9	VL041808.D	18 Dec 2024 23:08	need straight run	SY/MD	Ok
23	VIBLK	VIBLK	VL041809.D	18 Dec 2024 23:40		SY/MD	Ok
24	P5293-03DL	C0AC1DL	VL041810.D	19 Dec 2024 00:11		SY/MD	Ok
25	P5294-03	C0AB8	VL041811.D	19 Dec 2024 00:44		SY/MD	Ok
26	P5292-01	C0AC5	VL041812.D	19 Dec 2024 01:18		SY/MD	Ok
27	P5292-02	C0AC6	VL041813.D	19 Dec 2024 01:55		SY/MD	Ok
28	P5295-01DL	C0AC8DL	VL041814.D	19 Dec 2024 02:26		SY/MD	Ok
29	P5295-02	C0AC9	VL041815.D	19 Dec 2024 02:59	Need 4X	SY/MD	Dilution
30	VSTDCCC010	VSTDCCC010EC	VL041816.D	19 Dec 2024 03:31		SY/MD	Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P5293

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: v1121824,

Standard ID :

AP2556,AP2558,AP2560,AP2561,AP2562,

Chemical ID :

A1117,A1135,A1136,A1137,MDL,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2556	12/06/2024	01/04/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/20/2024								

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2558	12/06/2024	01/04/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/20/2024								

FROM 14.55000SCCM of A1117 + 45.00000SCCM of A1137 = 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>
2396	TO-15 15 PPBV CAL MIX	AP2560	12/06/2024	01/04/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/20/2024

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = 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	AP2561	12/06/2024	01/04/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/20/2024

FROM 26.00000psi of A1117 + 4.00000psi of AP2560 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2562	12/06/2024	01/04/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/20/2024
<u>FROM</u> 29.00000psi of A1117 + 1.00000psi of AP2560 = 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	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

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)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

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)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard

Durham, NC 27704

Phone: (919) 220-2570

Fax: (919) 220-4540

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: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

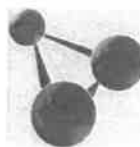
QA Signature: 

Signature: 

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
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
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	-
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 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	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 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	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 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	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 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	483 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	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

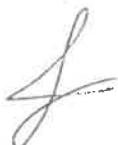
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

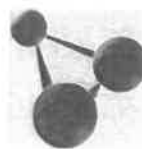
Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

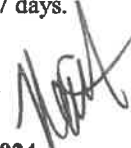
Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 ppb +/- 50 ppb	
Nitrogen	balance	balance	

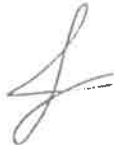
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

Date: 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.

Process Report

Order ID : P5293

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
12/17/2024	B2409035	P5293-01	-3.1	10604	6 L	10713		C2408003	VL041543.D Seq :vl081924 TUNE : VL041539.D ICAL : VL041404.D CCAL : VL041540.D MB : VL041541.D
12/17/2024	B2409035	P5293-03	-7.5	10258	6 L	10206		C2409002	VL041664.D Seq :vl101424 TUNE : VL041659.D ICAL : VL041597.D CCAL : VL041660.D MB : VL041661.D
12/17/2024	B2409035	P5293-02	-7.1	10153	6 L	10203		C2409003	VL041615.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D



Canister Cleaning

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

Canister Batch : C2409002

Type of Canister : 6 L

Cleaning Date : 09/04/2024

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10334	-30	09/05/2024	09/18/2024	-30	09/06/2024	P5298-02	10334	VL041666.D
10281	-30	09/05/2024	09/18/2024	-30	09/06/2024		10334	VL041614.D
10258	-30	09/05/2024	09/18/2024	-30	09/06/2024	P5293-03	10258	VL041664.D
10332	-30	09/05/2024	09/18/2024	-30	09/06/2024		10334	VL041614.D
10590	-30	09/05/2024	09/18/2024	-30	09/06/2024	P5298-03	10590	VL041665.D
10401	-30	09/05/2024	09/18/2024	-30	09/06/2024	P5294-02	10401	VL041614.D
10607	-30	09/05/2024	09/18/2024	-30	09/06/2024		10334	VL041614.D
10323	-30	09/05/2024	09/18/2024	-30	09/06/2024		10334	VL041614.D



Canister Cleaning

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

Canister Batch : C2408003

Type of Canister : 6 L

Cleaning Date : 08/13/2024

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10604	-30	08/14/2024	08/19/2024	-30	08/15/2024	P5293-01	10604	VL041543.D
10445	-30	08/14/2024	08/19/2024	-30	08/15/2024	P5150-04	10604	VL041543.D
10609	-30	08/14/2024	08/19/2024	-30	08/15/2024	P5150-05	10604	VL041543.D
10283	-30	08/14/2024	08/19/2024	-30	08/15/2024	P4696-02	10604	VL041543.D
10597	-30	08/14/2024	08/19/2024	-30	08/15/2024	P5150-06	10604	VL041543.D
10266	-30	08/14/2024	08/19/2024	-30	08/15/2024		10604	VL041543.D
10158	-30	08/14/2024	08/19/2024	-30	08/15/2024	P5151-01	10604	VL041543.D
10295	-30	08/14/2024	08/19/2024	-30	08/15/2024	P4696-01	10604	VL041543.D



Canister Cleaning

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

Canister Batch : C2409003

Type of Canister : 6 L

Cleaning Date : 09/05/2024

Analyst : SAM

Oven Temperature : 125.0 c

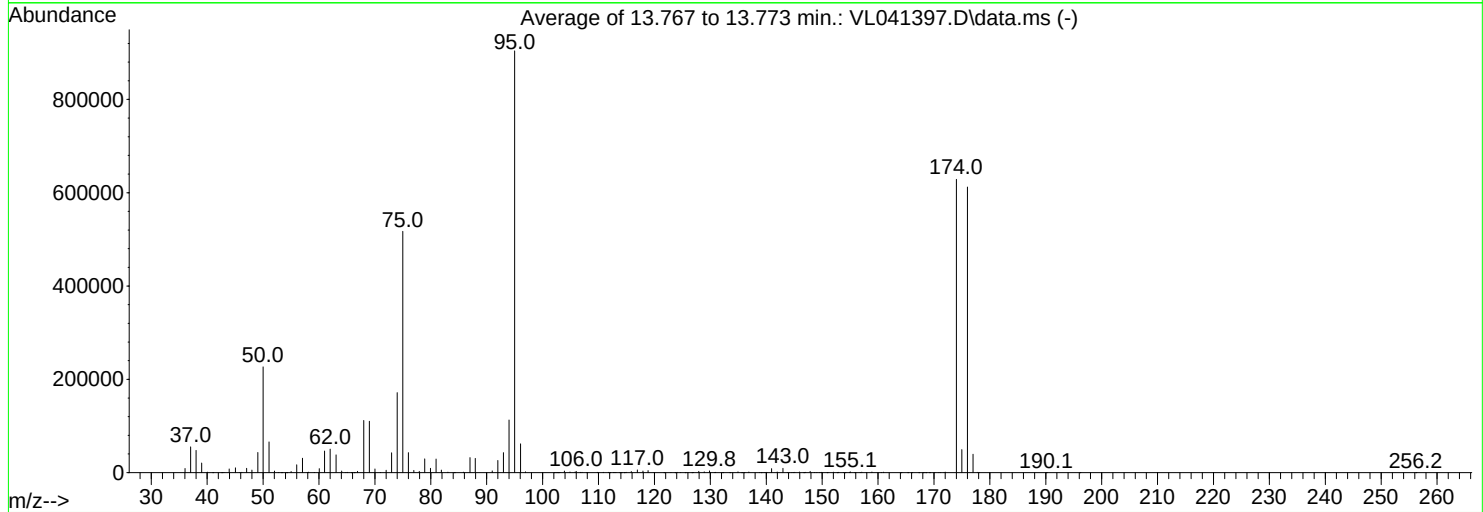
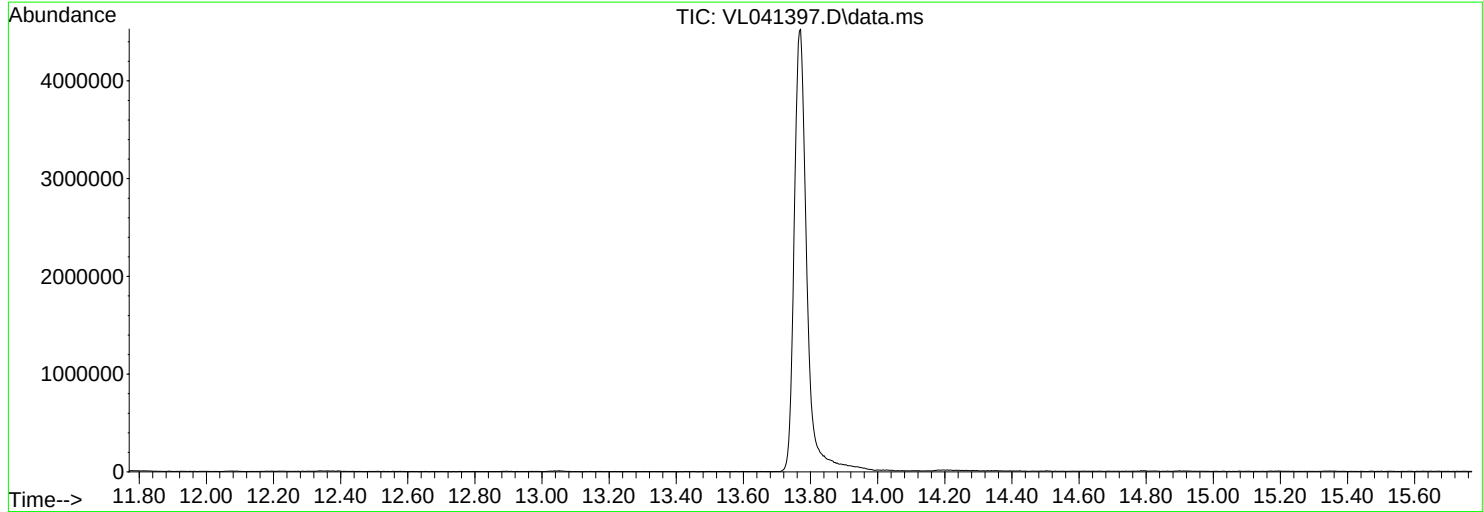
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10285	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D
10269	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D
10153	-30	09/06/2024	09/18/2024	-30	09/09/2024	P5293-02	10153	VL041615.D
10198	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D
10271	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D
10331	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D
10592	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D
10275	-30	09/06/2024	09/18/2024	-30	09/09/2024		10153	VL041615.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041397.D
Acq On : 25 Jul 2024 12:29
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\VL072524AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Jul 26 07:31:14 2024



AutoFind: Scans 3472, 3473, 3474; Background Corrected with Scan 3447

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	25.1	226560	PASS
75	95	30	66	57.2	517099	PASS
95	95	100	100	100.0	904149	PASS
96	95	5	9	6.8	61827	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.5	628715	PASS
175	174	4	9	7.9	49563	PASS
176	174	93	101	97.4	612373	PASS
177	176	5	9	6.5	39536	PASS

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

Method File : VL072524AIR.M

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

Last Update : Fri Jul 26 07:31:14 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041404.D 0.1 =VL041403.D 0.5 =VL041398.D 1 =VL041401.D 2 =VL041400.D 10 =VL041399.D 15 =VL041405.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.883	2.019	2.126	1.425	1.148	1.720	24.23
3) Chlorodifluoro...			1.302	1.262	1.264	1.070	1.054	1.190	9.97
4) Chloromethane			0.682	0.685	0.687	0.564	0.548	0.633	11.12
5) T Vinyl Chloride	0.719	0.563	0.628	0.663	0.653	0.570	0.571	0.624	9.45
6) T Bromomethane			0.331	0.344	0.333	0.295	0.301	0.321	6.69
7) Chloroethane			0.240	0.210	0.226	0.202	0.198	0.215	8.14
8) T Dichlorotetra...			1.593	1.646	1.681	1.381	1.321	1.524	10.69
9) T Propene			0.576	0.586	0.588	0.489	0.495	0.547	9.16
10) T Heptane			1.139	1.240	1.371	1.200	1.194	1.229	7.09
11) T Trichlorofluor...			1.621	1.638	1.636	1.383	1.362	1.528	9.32
12) T 1,1,2-Trichlor...			1.154	1.154	1.201	0.999	0.992	1.100	8.85
13) Ethanol			0.044	0.066	0.065	0.035	0.035	0.049#	31.91
14) T Bromoethene			0.417	0.430	0.468	0.412	0.417	0.429	5.27
15) T Acetone			1.292	1.192	1.231	0.996	0.969	1.136	12.76
16) T 1,3-Butadiene			0.605	0.652	0.664	0.556	0.558	0.607	8.38
17) tert-Butyl alc...			1.032	1.100	0.986	1.053	1.011	1.036	4.17
18) T 1,1-Dichloroet...			0.460	0.479	0.515	0.455	0.444	0.471	5.93
19) T Isopropyl Alcohol			0.711	0.674	0.661	0.646	0.630	0.664	4.64
20) T Methylene Chlo...			0.502	0.430	0.444	0.371	0.372	0.424	12.91
21) T Allyl Chloride			0.714	0.783	0.796	0.726	0.707	0.745	5.53
22) T trans-1,2-Dich...			0.462	0.481	0.516	0.448	0.446	0.471	6.16
23) T Vinyl Acetate			0.777	0.874	0.939	0.884	0.865	0.868	6.71
24) T 1,1-Dichloroet...			1.083	1.045	1.116	0.941	0.923	1.022	8.40
25) T Ethyl Acetate			2.177	2.381	2.517	2.116	2.094	2.257	8.16
26) T Hexane			0.897	0.951	1.056	0.889	0.889	0.936	7.64
27) T Carbon Disulfide			1.055	1.020	1.160	1.120	1.122	1.095	5.18
28) T Methyl tert-Bu...			0.565	0.637	0.652	0.555	0.543	0.591	8.53
29) T Chloroform			1.554	1.612	1.659	1.414	1.398	1.527	7.65
30) T Cyclohexane			0.602	0.795	0.875	0.764	0.777	0.763	13.04
31) T cis-1,2-Dichlo...			0.879	0.937	1.022	0.890	0.896	0.925	6.35
32) T 1,1,1-Trichlor...	1.713	1.310	1.498	1.517	1.581	1.398	1.388	1.487	9.11

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.465	0.491	0.528	0.467	0.467	0.484	5.58
35) T Carbon Tetrach...	0.584	0.500	0.542	0.558	0.589	0.548	0.540	0.552	5.42
36) T Benzene			0.691	0.778	0.792	0.705	0.689	0.731	6.82
37) T 1,2-Dichloroet...			0.413	0.416	0.428	0.393	0.396	0.409	3.55
38) T Trichloroethene	0.394	0.288	0.326	0.349	0.349	0.320	0.317	0.335	9.99
39) T 1,2-Dichloropr...			0.267	0.294	0.303	0.266	0.269	0.280	6.21

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL072524AIR.M										
40) T	1,4-Dioxane			0.130	0.110	0.106	0.115	0.101	0.112	9.70
41) T	Tetrahydrofuran			0.226	0.291	0.308	0.278	0.280	0.277	11.09
42) T	Bromodichlorom...			0.573	0.613	0.622	0.576	0.568	0.591	4.26
43) T	Methyl Methacr...			0.205	0.252	0.287	0.283	0.284	0.262	13.30
44) T	2,2,4-Trimethy...			1.168	1.294	1.342	1.165	1.132	1.220	7.54
45) T	t-1,3-Dichloro...			0.166	0.202	0.248	0.287	0.302	0.241	23.76
46) T	cis-1,3-Dichlo...			0.270	0.325	0.372	0.382	0.392	0.348	14.53
47) T	1,1,2-Trichlor...			0.310	0.313	0.334	0.294	0.291	0.308	5.62
48) T	Dibromochlorom...			0.447	0.503	0.526	0.505	0.503	0.497	5.97
49) T	Bromoform			0.354	0.401	0.455	0.446	0.443	0.420	10.10
50) T	4-Methyl-2-Pen...			0.644	0.773	0.860	0.776	0.763	0.763	10.08
51) T	2-Hexanone			0.398	0.569	0.640	0.639	0.640	0.577	18.10
52) T	Tetrachloroethene	0.308	0.260	0.275	0.289	0.304	0.271	0.270	0.282	6.49
53) T	Toluene			0.678	0.851	0.889	0.829	0.822	0.814	9.86
54) T	1,2-Dibromoethane	0.340		0.377	0.424	0.463	0.429	0.429	0.410	10.74
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.401	0.401	0.412	0.372	0.353	0.388	6.36
57) T	Chlorobenzene			0.747	0.762	0.758	0.667	0.626	0.712	8.71
58) T	Ethyl Benzene			1.028	1.229	1.262	1.151	1.092	1.153	8.35
59) T	m/p-Xylene			0.934	1.065	1.083	0.979	0.914	0.995	7.68
60) T	o-Xylene			0.842	1.015	1.038	0.931	0.880	0.941	8.96
61) T	Styrene			0.313	0.424	0.468	0.464	0.455	0.425	15.32
62) T	Isopropylbenzene			1.404	1.552	1.560	1.368	1.270	1.431	8.68
63) T	1,1,2,2-Tetrac...	0.575	0.568	0.626	0.641	0.650	0.569	0.533	0.594	7.45
64) T	n-propylbenzene			0.353	0.393	0.408	0.370	0.347	0.374	6.89
65) T	tert-Butylbenzene			1.229	1.412	1.448	1.235	1.138	1.292	10.21
66) T	Benzyl Chloride			0.069	0.076	0.080	0.092	0.097	0.083	13.50
67) T	sec-Butylbenzene			1.641	1.940	2.017	1.719	1.586	1.781	10.59
68) S	1-Bromo-4-Fluo...	0.772	0.783	0.774	0.764	0.764	0.782	0.747	0.770	1.63
69) T	p-Isopropyltol...			1.299	1.617	1.674	1.453	1.346	1.478	11.11
70) T	n-Butylbenzene			1.347	1.622	1.731	1.488	1.386	1.515	10.64
71) T	2-Chlorotoluene			0.990	1.133	1.154	1.033	0.966	1.055	8.00
72) T	4-Ethyltoluene			0.976	1.143	1.229	1.138	1.054	1.108	8.70
73) T	1,3,5-Trimethy...			0.831	0.987	1.072	0.974	0.909	0.955	9.46
74) T	1,2,4-Trimethy...			1.034	1.199	1.238	1.074	1.003	1.110	9.32
75) T	1,3-Dichlorobe...			0.663	0.751	0.768	0.672	0.634	0.698	8.33
76) T	1,4-Dichlorobe...			0.673	0.710	0.716	0.656	0.623	0.676	5.74
77) T	1,2-Dichlorobe...			0.692	0.731	0.767	0.654	0.614	0.692	8.73
78) T	Hexachloro-1,3...			0.621	0.680	0.665	0.499	0.484	0.590	15.69
79) T	Naphthalene	0.490		0.808	1.106	1.252	1.125	1.096	0.980	28.67
80) T	Naphthalene,2-...			0.499	0.667	0.911	0.992	1.036	0.821	27.97
81) T	1,2,4-Trichlor...			0.504	0.606	0.646	0.587	0.573	0.583	8.95

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041398.D
 Acq On : 25 Jul 2024 13:19
 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 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 05:07:02 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1163290	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3245422	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3043708	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2357044 10.071 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	109541	0.539	ppbv	98
3) Chlorodifluoromethane	2.655	51	75741	0.549	ppbv	100
4) Chloromethane	2.793	50	39649	0.546	ppbv	96
5) Vinyl Chloride	2.906	62	36538	0.508	ppbv #	87
6) Bromomethane	3.102	94	19255	0.523	ppbv	93
7) Chloroethane	3.179	64	13984	0.572	ppbv	92
8) Dichlorotetrafluoroethane	2.838	85	92652	0.521	ppbv	93
9) Propene	2.671	41	33491	0.523	ppbv	98
10) Heptane	7.568	43	66249	0.465	ppbv	97
11) Trichlorofluoromethane	3.545	101	94267	0.536	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.050	101	67103	0.527	ppbv	99
13) Ethanol	3.237	45	2541m	0.454	ppbv	
14) Bromoethene	3.346	108	24275	0.495	ppbv #	90
15) Acetone	3.462	43	75165	0.574	ppbv	100
16) 1,3-Butadiene	2.963	39	35196m	0.505	ppbv	
17) tert-Butyl alcohol	3.870	59	59997	0.504	ppbv	99
18) 1,1-Dichloroethene	3.864	96	26744	0.484	ppbv	90
19) Isopropyl Alcohol	3.568	45	41335m	0.559	ppbv	
20) Methylene Chloride	3.915	84	29173	0.603	ppbv #	93
21) Allyl Chloride	3.979	41	41531	0.483	ppbv	94
22) trans-1,2-Dichloroethene	4.433	96	26864	0.500	ppbv	93
23) Vinyl Acetate	4.616	43	45209	0.444	ppbv #	97
24) 1,1-Dichloroethane	4.545	63	62999	0.542	ppbv #	97
25) Ethyl Acetate	5.195	43	126641	0.485	ppbv	99
26) Hexane	5.192	57	52190	0.475	ppbv	91
27) Carbon Disulfide	4.111	76	61342	0.489	ppbv #	93
28) Methyl tert-Butyl Ether	4.581	73	32882	0.475	ppbv	95
29) Chloroform	5.256	83	90359	0.503	ppbv	99
30) Cyclohexane	6.594	84	35035	0.389	ppbv #	88
31) cis-1,2-Dichloroethene	5.063	61	51136	0.472	ppbv #	87
32) 1,1,1-Trichloroethane	5.989	97	87155	0.508	ppbv	97
34) 2-Butanone	4.787	43	75522m	0.481	ppbv	
35) Carbon Tetrachloride	6.478	117	88027	0.495	ppbv	86
36) Benzene	6.356	78	112067	0.470	ppbv	95
37) 1,2-Dichloroethane	5.793	62	66949	0.507	ppbv	98
38) Trichloroethene	7.282	130	52825	0.488	ppbv	98
39) 1,2-Dichloropropane	7.060	63	43368	0.473	ppbv	95
40) 1,4-Dioxane	7.304	88	21057m	0.633	ppbv	
41) Tetrahydrofuran	5.568	42	36699	0.403	ppbv	98
42) Bromodichloromethane	7.237	83	92906	0.486	ppbv	98
43) Methyl Methacrylate	7.465	69	33258	0.386	ppbv	91
44) 2,2,4-Trimethylpentane	7.314	57	189569	0.479	ppbv	94
45) t-1,3-Dichloropropene	8.700	75	26864m	0.341	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041398.D
 Acq On : 25 Jul 2024 13:19
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 05:07:02 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	43823m	0.384	ppbv	
47) 1,1,2-Trichloroethane	8.886	97	50232	0.505	ppbv	95
48) Dibromochloromethane	9.700	129	72480	0.452	ppbv	100
49) Bromoform	12.400	173	57383	0.423	ppbv	95
50) 4-Methyl-2-Pentanone	8.185	43	104559m	0.417	ppbv	
51) 2-Hexanone	9.558	43	64659	0.338	ppbv #	97
52) Tetrachloroethene	10.600	164	44583	0.486	ppbv	92
53) Toluene	9.211	91	110057	0.411	ppbv	98
54) 1,2-Dibromoethane	10.002	107	61242	0.455	ppbv	89
56) 1,1,1,2-Tetrachloroethane	11.497	131	61039	0.519	ppbv #	1
57) Chlorobenzene	11.516	112	113739	0.524	ppbv	94
58) Ethyl Benzene	12.079	91	156513	0.441	ppbv	96
59) m/p-Xylene	12.365	91	284326m	0.936	ppbv	
60) o-Xylene	13.050	91	128195	0.440	ppbv	99
61) Styrene	12.889	104	47561	0.362	ppbv	94
62) Isopropylbenzene	14.018	105	213603m	0.492	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.040	83	95214	0.526	ppbv	97
64) n-propylbenzene	14.915	120	53748m	0.473	ppbv	
65) tert-Butylbenzene	16.082	119	187031m	0.476	ppbv	
66) Benzyl Chloride	16.323	91	10564m	0.422	ppbv	
67) sec-Butylbenzene	16.632	105	249741	0.458	ppbv	99
69) p-Isopropyltoluene	16.992	119	197625	0.434	ppbv	96
70) n-Butylbenzene	17.886	91	204999	0.443	ppbv	98
71) 2-Chlorotoluene	14.796	91	150717	0.465	ppbv	100
72) 4-Ethyltoluene	15.188	105	148551	0.441	ppbv	97
73) 1,3,5-Trimethylbenzene	15.346	105	126480	0.429	ppbv	92
74) 1,2,4-Trimethylbenzene	16.098	105	157396m	0.463	ppbv	
75) 1,3-Dichlorobenzene	16.326	146	100938	0.476	ppbv	94
76) 1,4-Dichlorobenzene	16.468	146	102368m	0.492	ppbv	
77) 1,2-Dichlorobenzene	17.143	146	105386m	0.503	ppbv	
78) Hexachloro-1,3-Butadiene	22.631	225	94555m	0.520	ppbv	
79) Naphthalene	21.387	128	123028m	0.412	ppbv	
80) Naphthalene,2-methyl-	24.374	142	75989	0.313	ppbv	93
81) 1,2,4-Trichlorobenzene	21.143	180	76641m	0.428	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041399.D
 Acq On : 25 Jul 2024 13:59
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Jul 26 05:05:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Jul 26 04:51:44 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

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

Internal Standards						
1) Bromochloromethane	5.176	49	1227171	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3353351	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	3260833m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.770	95	2550034	10.170	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	1748662	8.150	ppbv	100
3) Chlorodifluoromethane	2.652	51	1312868	9.025	ppbv	100
4) Chloromethane	2.790	50	692256	9.024	ppbv	99
5) Vinyl Chloride	2.899	62	699389	9.214	ppbv	100
6) Bromomethane	3.099	94	361665	9.227	ppbv	100
7) Chloroethane	3.176	64	248340	9.630	ppbv	100
8) Dichlorotetrafluoroethane	2.835	85	1694634	9.039	ppbv	100
9) Propene	2.671	41	600396	8.889	ppbv	100
10) Heptane	7.568	43	1472225	9.801	ppbv	99
11) Trichlorofluoromethane	3.542	101	1696907	9.145	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.047	101	1226328	9.136	ppbv	100
13) Ethanol	3.224	45	43077m	7.073	ppbv	
14) Bromoethene	3.346	108	505960	9.786	ppbv	100
15) Acetone	3.446	43	1222864	8.859	ppbv	100
16) 1,3-Butadiene	2.964	39	681843	9.269	ppbv	100
17) tert-Butyl alcohol	3.861	59	1291681	10.276	ppbv	100
18) 1,1-Dichloroethene	3.861	96	558470	9.575	ppbv	100
19) Isopropyl Alcohol	3.555	45	792740	10.155	ppbv	100
20) Methylene Chloride	3.915	84	455611	8.929	ppbv	100
21) Allyl Chloride	3.980	41	890718	9.827	ppbv	100
22) trans-1,2-Dichloroethene	4.430	96	549902	9.711	ppbv	100
23) Vinyl Acetate	4.610	43	1085315	10.104	ppbv	100
24) 1,1-Dichloroethane	4.549	63	1154644	9.415	ppbv	100
25) Ethyl Acetate	5.189	43	2597295	9.430	ppbv	100
26) Hexane	5.198	57	1090849	9.420	ppbv	100
27) Carbon Disulfide	4.105	76	1375021	10.384	ppbv	99
28) Methyl tert-Butyl Ether	4.568	73	681033	9.329	ppbv	100
29) Chloroform	5.259	83	1735318	9.163	ppbv	100
30) Cyclohexane	6.590	84	937363	9.878	ppbv	100
31) cis-1,2-Dichloroethene	5.063	61	1091838	9.548	ppbv	100
32) 1,1,1-Trichloroethane	5.989	97	1715896	9.483	ppbv	100
34) 2-Butanone	4.771	43	1567685	9.654	ppbv	100
35) Carbon Tetrachloride	6.484	117	1836059	9.983	ppbv	100
36) Benzene	6.359	78	2363293	9.591	ppbv	100
37) 1,2-Dichloroethane	5.796	62	1317693	9.664	ppbv	99
38) Trichloroethene	7.282	130	1074518	9.605	ppbv	100
39) 1,2-Dichloropropane	7.063	63	891517	9.403	ppbv	100
40) 1,4-Dioxane	7.275	88	384473	11.177	ppbv	100
41) Tetrahydrofuran	5.542	42	931064	9.892	ppbv	100
42) Bromodichloromethane	7.240	83	1932798	9.793	ppbv	100
43) Methyl Methacrylate	7.465	69	948521	10.646	ppbv	100
44) 2,2,4-Trimethylpentane	7.317	57	3907968	9.554	ppbv	100
45) t-1,3-Dichloropropene	8.703	75	963383	11.835	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041399.D
 Acq On : 25 Jul 2024 13:59
 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 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:05:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Fri Jul 26 04:51:44 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	1281640	10.855	ppbv	100
47) 1,1,2-Trichloroethane	8.893	97	987016	9.602	ppbv	100
48) Dibromochloromethane	9.706	129	1692234	10.224	ppbv	100
49) Bromoform	12.404	173	1496236	10.670	ppbv	99
50) 4-Methyl-2-Pentanone	8.172	43	2603717	10.051	ppbv	100
51) 2-Hexanone	9.542	43	2141345	10.819	ppbv	100
52) Tetrachloroethene	10.613	164	907950	9.585	ppbv	100
53) Toluene	9.214	91	2779504	10.036	ppbv	100
54) 1,2-Dibromoethane	10.002	107	1438535	10.342	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.503	131	1213659	9.640	ppbv #	58
57) Chlorobenzene	11.523	112	2174265	9.343	ppbv	100
58) Ethyl Benzene	12.085	91	3752771	9.870	ppbv	100
59) m/p-Xylene	12.368	91	6382118m	19.609	ppbv	
60) o-Xylene	13.053	91	3036791	9.732	ppbv	100
61) Styrene	12.896	104	1513410	10.748	ppbv	100
62) Isopropylbenzene	14.024	105	4462038	9.595	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.040	83	1853886	9.567	ppbv	100
64) n-propylbenzene	14.912	120	1205437	9.895	ppbv	100
65) tert-Butylbenzene	16.085	119	4027165	9.564	ppbv	100
66) Benzyl Chloride	16.323	91	299511	11.162	ppbv	100
67) sec-Butylbenzene	16.635	105	5605419	9.602	ppbv	100
69) p-Isopropyltoluene	16.989	119	4737222	9.713	ppbv	100
70) n-Butylbenzene	17.883	91	4851380	9.796	ppbv	100
71) 2-Chlorotoluene	14.799	91	3368997	9.707	ppbv	100
72) 4-Ethyltoluene	15.188	105	3711228	10.293	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	3175291	10.049	ppbv	100
74) 1,2,4-Trimethylbenzene	16.105	105	3502689	9.621	ppbv	100
75) 1,3-Dichlorobenzene	16.330	146	2192883	9.642	ppbv	100
76) 1,4-Dichlorobenzene	16.471	146	2140459	9.596	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	2131506	9.501	ppbv	100
78) Hexachloro-1,3-Butadiene	22.628	225	1626038	8.347	ppbv	100
79) Naphthalene	21.381	128	3669460	11.481	ppbv	100
80) Naphthalene,2-methyl-	24.371	142	3235986	12.454	ppbv	100
81) 1,2,4-Trichlorobenzene	21.133	180	1912951	9.962	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041400.D
 Acq On : 25 Jul 2024 14:40
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 25 15:37:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1187869	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3361544	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	3300753	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.773 95 2521024 10.190 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.710	85	505198	2.492	ppbv	99
3) Chlorodifluoromethane	2.652	51	300375	1.467	ppbv	99
4) Chloromethane	2.793	50	163139	2.084	ppbv	96
5) Vinyl Chloride	2.899	62	155185	1.835	ppbv	99
6) Bromomethane	3.102	94	79103	2.956	ppbv	98
7) Chloroethane	3.176	64	53717	1.922	ppbv	94
8) Dichlorotetrafluoroethane	2.835	85	399415	2.027	ppbv	100
9) Propene	2.671	41	139773	1.972	ppbv	99
10) Heptane	7.568	43	325614	1.956	ppbv	100
11) Trichlorofluoromethane	3.546	101	388765	1.970	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	285420	2.064	ppbv	100
13) Ethanol	3.237	45	15410m	0.980	ppbv	
14) Bromoethene	3.346	108	111081	2.003	ppbv	93
15) Acetone	3.456	43	292550	1.865	ppbv	99
16) 1,3-Butadiene	2.967	39	157764	2.113	ppbv	99
17) tert-Butyl alcohol	3.861	59	234318	1.936	ppbv	99
18) 1,1-Dichloroethene	3.861	96	122348	2.013	ppbv	97
19) Isopropyl Alcohol	3.562	45	156947m	1.822	ppbv	
20) Methylene Chloride	3.915	84	105428	1.852	ppbv	98
21) Allyl Chloride	3.980	41	189033	1.998	ppbv	90
22) trans-1,2-Dichloroethene	4.427	96	122560	2.030	ppbv	90
23) Vinyl Acetate	4.613	43	223002	1.442	ppbv	# 98
24) 1,1-Dichloroethane	4.546	63	265124	1.977	ppbv	98
25) Ethyl Acetate	5.192	43	597999	2.070	ppbv	99
26) Hexane	5.198	57	250786	1.961	ppbv	98
27) Carbon Disulfide	4.108	76	275637	1.771	ppbv	94
28) Methyl tert-Butyl Ether	4.578	73	154942	1.633	ppbv	97
29) Chloroform	5.259	83	394045	1.997	ppbv	99
30) Cyclohexane	6.587	84	207896	2.040	ppbv	93
31) cis-1,2-Dichloroethene	5.063	61	242910	1.981	ppbv	97
32) 1,1,1-Trichloroethane	5.992	97	375703	1.814	ppbv	97
34) 2-Butanone	4.774	43	355170	2.002	ppbv	98
35) Carbon Tetrachloride	6.481	117	395969	1.784	ppbv	98
36) Benzene	6.359	78	532213	1.913	ppbv	97
37) 1,2-Dichloroethane	5.793	62	287587	1.802	ppbv	98
38) Trichloroethene	7.282	130	234513	1.935	ppbv	93
39) 1,2-Dichloropropane	7.060	63	203420	1.892	ppbv	96
40) 1,4-Dioxane	7.288	88	71274	2.068	ppbv	# 1
41) Tetrahydrofuran	5.552	42	207220	1.886	ppbv	99
42) Bromodichloromethane	7.237	83	418292	1.873	ppbv	98
43) Methyl Methacrylate	7.468	69	192639	1.843	ppbv	94
44) 2,2,4-Trimethylpentane	7.317	57	902570	1.909	ppbv	99
45) t-1,3-Dichloropropene	8.700	75	166952	2.524	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041400.D
 Acq On : 25 Jul 2024 14:40
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 25 15:37:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	249911	2.810	ppbv	97
47) 1,1,2-Trichloroethane	8.889	97	224865	1.950	ppbv	94
48) Dibromochloromethane	9.703	129	353718	1.910	ppbv	100
49) Bromoform	12.401	173	305646	2.073	ppbv	99
50) 4-Methyl-2-Pentanone	8.176	43	577958	2.029	ppbv	99
51) 2-Hexanone	9.555	43	430093	2.124	ppbv #	96
52) Tetrachloroethene	10.606	164	204374	1.829	ppbv	98
53) Toluene	9.214	91	597804	1.905	ppbv	100
54) 1,2-Dibromoethane	10.005	107	311374	2.182	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.503	131	272178	1.832	ppbv #	1
57) Chlorobenzene	11.520	112	500573	1.933	ppbv	96
58) Ethyl Benzene	12.082	91	833428	1.887	ppbv	96
59) m/p-Xylene	12.365	91	1430508m	3.743	ppbv	
60) o-Xylene	13.053	91	685320	1.900	ppbv	99
61) Styrene	12.896	104	308833	1.763	ppbv	99
62) Isopropylbenzene	14.027	105	1029899	1.850	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.044	83	428827	1.509	ppbv	98
64) n-propylbenzene	14.912	120	269236	1.852	ppbv	91
65) tert-Butylbenzene	16.085	119	956093	1.928	ppbv	100
66) Benzyl Chloride	16.326	91	52950m	1.625	ppbv	
67) sec-Butylbenzene	16.635	105	1331315	1.898	ppbv	99
69) p-Isopropyltoluene	16.992	119	1105164	1.908	ppbv	100
70) n-Butylbenzene	17.886	91	1142994	1.931	ppbv	99
71) 2-Chlorotoluene	14.799	91	762002	1.842	ppbv	99
72) 4-Ethyltoluene	15.188	105	811504	1.889	ppbv	99
73) 1,3,5-Trimethylbenzene	15.349	105	707827	1.925	ppbv	95
74) 1,2,4-Trimethylbenzene	16.105	105	817315	1.972	ppbv	95
75) 1,3-Dichlorobenzene	16.326	146	506675	2.061	ppbv	99
76) 1,4-Dichlorobenzene	16.468	146	472957	1.931	ppbv	97
77) 1,2-Dichlorobenzene	17.140	146	506084	2.019	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	438766	2.407	ppbv	98
79) Naphthalene	21.384	128	826782	3.710	ppbv	98
80) Naphthalene,2-methyl-	24.371	142	601537	1025.625	ppbv	99
81) 1,2,4-Trichlorobenzene	21.140	180	426225	3.095	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041400.D
Acq On : 25 Jul 2024 14:40
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 07/26/2024
Supervised By : Mahesh Dadoda 07/29/2024

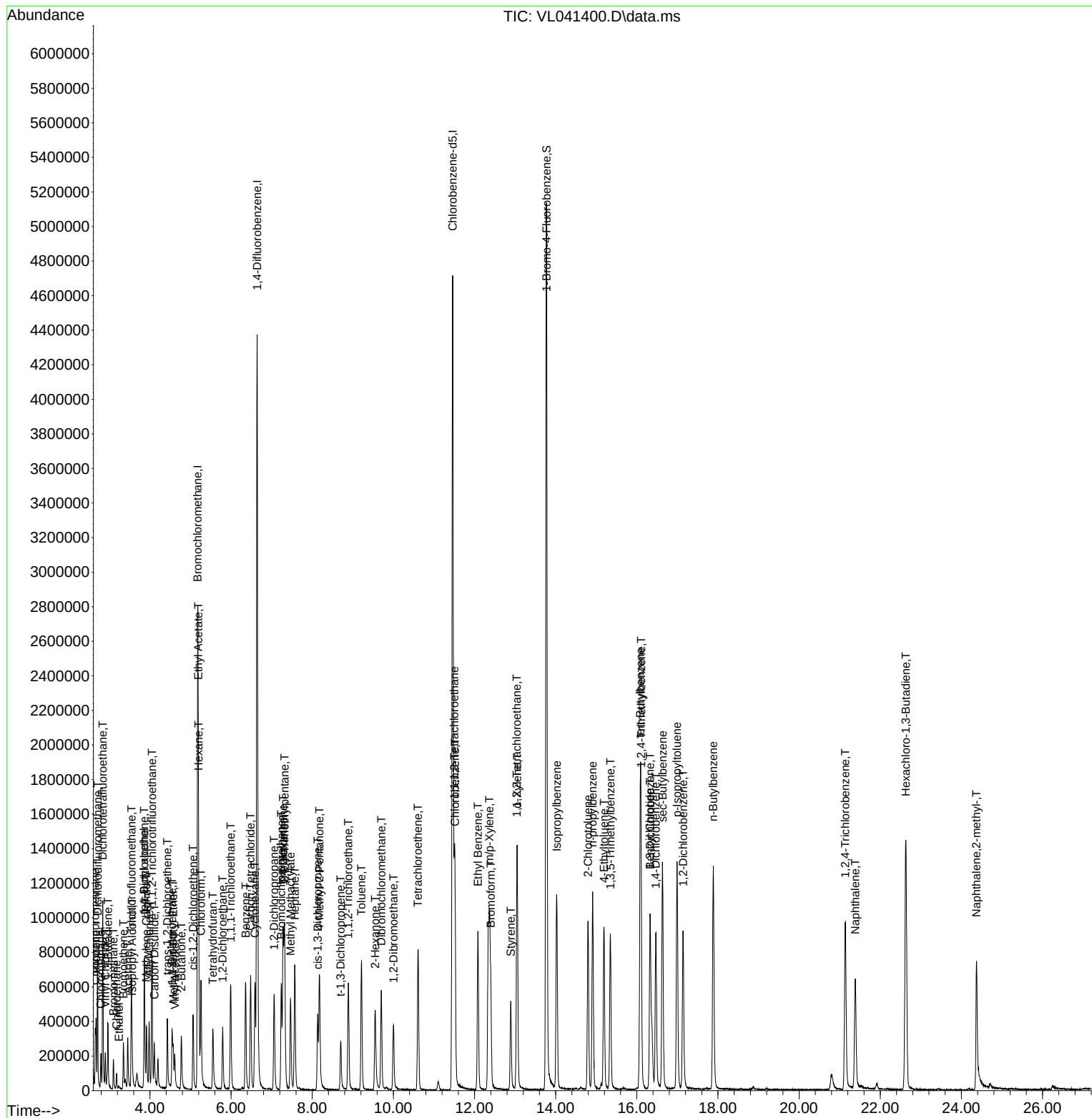
Quant Time: Jul 25 15:37:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041401.D
 Acq On : 25 Jul 2024 15:19
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:43:04 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1198624	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3342988	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	3161618	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.774 95 2414921 10.191 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	241964	1.183	ppbv	95
3) Chlorodifluoromethane	2.652	51	151299	0.732	ppbv	98
4) Chloromethane	2.793	50	82099	1.039	ppbv	96
5) Vinyl Chloride	2.899	62	79527	0.932	ppbv	98
6) Bromomethane	3.099	94	41204	1.526	ppbv	92
7) Chloroethane	3.179	64	25119	0.891	ppbv	92
8) Dichlorotetrafluoroethane	2.835	85	197281	0.992	ppbv	99
9) Propene	2.674	41	70203	0.982	ppbv	97
10) Heptane	7.568	43	148675	0.885	ppbv	96
11) Trichlorofluoromethane	3.542	101	196294	0.986	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.050	101	138368	0.992	ppbv	99
13) Ethanol	3.240	45	7925m	0.500	ppbv	
14) Bromoethene	3.350	108	51557	0.921	ppbv #	85
15) Acetone	3.456	43	142863	0.902	ppbv	97
16) 1,3-Butadiene	2.967	39	78187	1.038	ppbv	96
17) tert-Butyl alcohol	3.867	59	131833	1.080	ppbv	100
18) 1,1-Dichloroethene	3.861	96	57445	0.937	ppbv	99
19) Isopropyl Alcohol	3.568	45	80830	0.930	ppbv #	98
20) Methylene Chloride	3.912	84	51566	0.898	ppbv	96
21) Allyl Chloride	3.980	41	93864	0.983	ppbv	95
22) trans-1,2-Dichloroethene	4.433	96	57666	0.947	ppbv	91
23) Vinyl Acetate	4.613	43	104758	0.671	ppbv #	94
24) 1,1-Dichloroethane	4.546	63	125314	0.926	ppbv	100
25) Ethyl Acetate	5.195	43	285442	0.979	ppbv	98
26) Hexane	5.198	57	113990	0.883	ppbv	88
27) Carbon Disulfide	4.112	76	122266	0.779	ppbv	97
28) Methyl tert-Butyl Ether	4.575	73	76370	0.798	ppbv	99
29) Chloroform	5.259	83	193219	0.970	ppbv	91
30) Cyclohexane	6.594	84	95243m	0.926	ppbv	
31) cis-1,2-Dichloroethene	5.066	61	112360	0.908	ppbv	96
32) 1,1,1-Trichloroethane	5.986	97	181889	0.870	ppbv	99
34) 2-Butanone	4.777	43	163975	0.930	ppbv	97
35) Carbon Tetrachloride	6.481	117	186609	0.845	ppbv	99
36) Benzene	6.356	78	259942	0.940	ppbv	95
37) 1,2-Dichloroethane	5.793	62	138981	0.875	ppbv	100
38) Trichloroethene	7.279	130	116586m	0.967	ppbv	
39) 1,2-Dichloropropane	7.063	63	98425m	0.921	ppbv	
40) 1,4-Dioxane	7.298	88	36813m	1.074	ppbv	
41) Tetrahydrofuran	5.558	42	97249	0.890	ppbv	98
42) Bromodichloromethane	7.240	83	204988	0.923	ppbv	99
43) Methyl Methacrylate	7.472	69	84268	0.811	ppbv	88
44) 2,2,4-Trimethylpentane	7.317	57	432528	0.920	ppbv	99
45) t-1,3-Dichloropropene	8.706	75	67675	1.029	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041401.D
 Acq On : 25 Jul 2024 15:19
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:43:04 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	108779	1.230	ppbv	99
47) 1,1,2-Trichloroethane	8.889	97	104479	0.911	ppbv	97
48) Dibromochloromethane	9.703	129	168168	0.913	ppbv	97
49) Bromoform	12.404	173	133988	0.914	ppbv	99
50) 4-Methyl-2-Pentanone	8.182	43	258275	0.912	ppbv	96
51) 2-Hexanone	9.558	43	190138	0.944	ppbv #	100
52) Tetrachloroethene	10.613	164	96753m	0.871	ppbv	
53) Toluene	9.211	91	284562	0.912	ppbv	98
54) 1,2-Dibromoethane	10.005	107	141838	0.999	ppbv	91
56) 1,1,1,2-Tetrachloroethane	11.504	131	126753	0.891	ppbv #	1
57) Chlorobenzene	11.520	112	240871	0.971	ppbv	95
58) Ethyl Benzene	12.086	91	388676	0.919	ppbv	98
59) m/p-Xylene	12.368	91	673526m	1.840	ppbv	
60) o-Xylene	13.053	91	320813	0.929	ppbv	99
61) Styrene	12.896	104	133924	0.798	ppbv	99
62) Isopropylbenzene	14.024	105	490658	0.920	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.047	83	202749	0.745	ppbv	98
64) n-propylbenzene	14.915	120	124102	0.891	ppbv	83
65) tert-Butylbenzene	16.085	119	446299	0.940	ppbv	99
66) Benzyl Chloride	16.326	91	24142m	0.774	ppbv	
67) sec-Butylbenzene	16.632	105	613358	0.913	ppbv	99
69) p-Isopropyltoluene	16.992	119	511080	0.921	ppbv	100
70) n-Butylbenzene	17.886	91	512783	0.904	ppbv	98
71) 2-Chlorotoluene	14.796	91	358079	0.904	ppbv	100
72) 4-Ethyltoluene	15.188	105	361470	0.878	ppbv	97
73) 1,3,5-Trimethylbenzene	15.349	105	312184	0.886	ppbv	98
74) 1,2,4-Trimethylbenzene	16.101	105	379183	0.955	ppbv #	91
75) 1,3-Dichlorobenzene	16.330	146	237337	1.008	ppbv	99
76) 1,4-Dichlorobenzene	16.468	146	224373	0.956	ppbv	98
77) 1,2-Dichlorobenzene	17.140	146	231111	0.963	ppbv	98
78) Hexachloro-1,3-Butadiene	22.632	225	215079	1.232	ppbv	99
79) Naphthalene	21.387	128	349592m	1.638	ppbv	
80) Naphthalene,2-methyl-	24.374	142	210840	375.304	ppbv	98
81) 1,2,4-Trichlorobenzene	21.143	180	191623	1.452	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041403.D
 Acq On : 25 Jul 2024 16:42
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:44:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 25 14:31:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.176	49	1207844	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3343894	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3087423	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2418801	10.453	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
5) Vinyl Chloride	2.899	62	6804	0.079	ppbv	Qvalue 94
32) 1,1,1-Trichloroethane	5.989	97	15825m	0.075	ppbv	
35) Carbon Tetrachloride	6.478	117	16719m	0.076	ppbv	
38) Trichloroethene	7.278	130	9639m	0.080	ppbv	
52) Tetrachloroethene	10.593	164	8679m	0.078	ppbv	
54) 1,2-Dibromoethane	9.995	107	11367m	0.080	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.040	83	17530m	0.066	ppbv	
79) Naphthalene	21.403	128	15122m	0.073	ppbv	

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

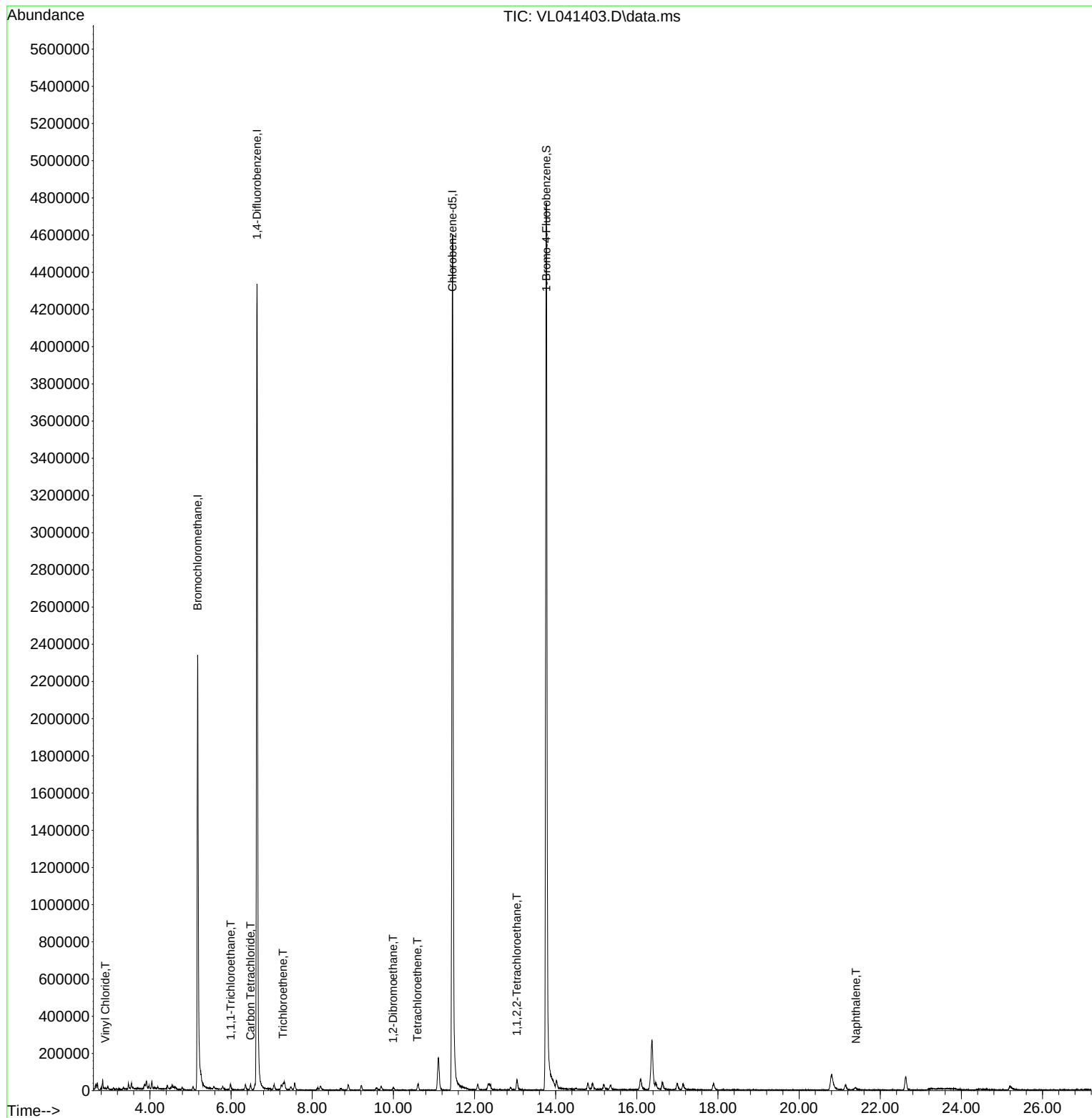
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041403.D
Acq On : 25 Jul 2024 16:42
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024
Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:44:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 25 14:31:18 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041404.D
 Acq On : 25 Jul 2024 17:24
 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 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 25 14:31:18 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1173154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3272729	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3056197	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2360153	10.303	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%
Target Compounds						
5) Vinyl Chloride	2.899	62	2531m	0.030	ppbv	Qvalue
32) 1,1,1-Trichloroethane	5.983	97	6029m	0.029	ppbv	
35) Carbon Tetrachloride	6.478	117	5730m	0.027	ppbv	
38) Trichloroethene	7.275	130	3872m	0.033	ppbv	
52) Tetrachloroethene	10.610	164	3020m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.037	83	5269m	0.020	ppbv	

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

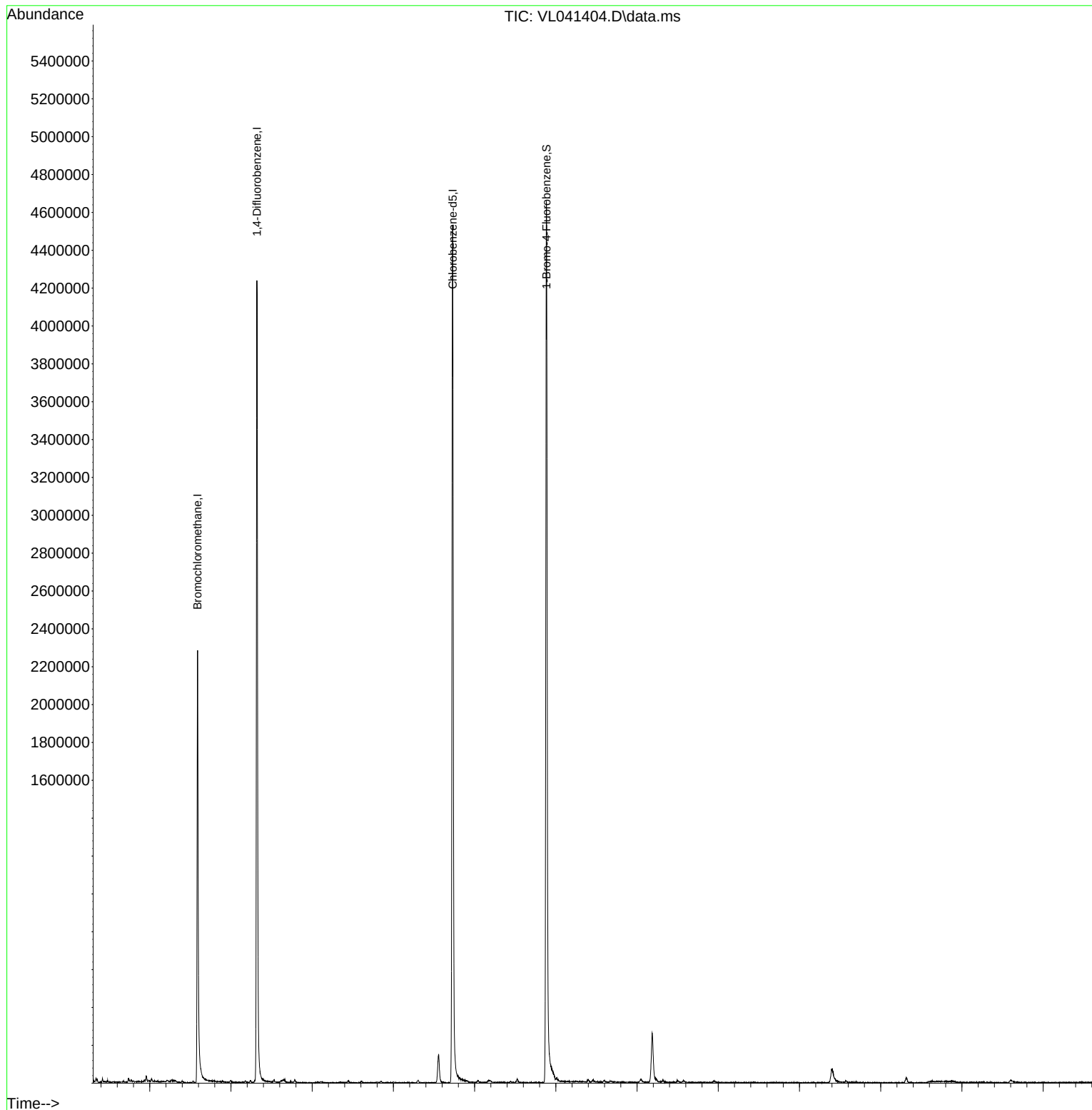
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
Data File : VL041404.D
Acq On : 25 Jul 2024 17:24
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024
Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 25 14:31:18 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041405.D
 Acq On : 25 Jul 2024 18:06
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1211244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3327019	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3365868	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2515088 9.970 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	2086477	10.095	ppbv	99
3) Chlorodifluoromethane	2.652	51	1914240	9.165	ppbv	100
4) Chloromethane	2.790	50	996482	12.485	ppbv	99
5) Vinyl Chloride	2.899	62	1038128	12.036	ppbv	98
6) Bromomethane	3.099	94	547488	20.067	ppbv	96
7) Chloroethane	3.176	64	360614	12.655	ppbv	95
8) Dichlorotetrafluoroethane	2.835	85	2399417	11.943	ppbv	99
9) Propene	2.671	41	899840	12.451	ppbv	98
10) Heptane	7.571	43	2169367	12.780	ppbv	99
11) Trichlorofluoromethane	3.542	101	2473823	12.296	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.047	101	1802452	12.784	ppbv	99
13) Ethanol	3.221	45	62897m	3.923	ppbv	
14) Bromoethene	3.346	108	757933	13.400	ppbv	98
15) Acetone	3.446	43	1760479	11.005	ppbv	99
16) 1,3-Butadiene	2.964	39	1014052	13.319	ppbv	99
17) tert-Butyl alcohol	3.857	59	1836705	14.883	ppbv	99
18) 1,1-Dichloroethene	3.861	96	806522	13.011	ppbv	100
19) Isopropyl Alcohol	3.555	45	1143994	13.027	ppbv	100
20) Methylene Chloride	3.915	84	675282	11.634	ppbv	99
21) Allyl Chloride	3.980	41	1284615	13.313	ppbv	97
22) trans-1,2-Dichloroethene	4.430	96	809963	13.156	ppbv	99
23) Vinyl Acetate	4.613	43	1570687	9.960	ppbv	98
24) 1,1-Dichloroethane	4.545	63	1677304	12.269	ppbv	99
25) Ethyl Acetate	5.189	43	3804371	12.915	ppbv	100
26) Hexane	5.198	57	1615258	12.384	ppbv	98
27) Carbon Disulfide	4.105	76	2038049	12.842	ppbv	99
28) Methyl tert-Butyl Ether	4.568	73	986442	10.196	ppbv	100
29) Chloroform	5.263	83	2540539	12.624	ppbv	99
30) Cyclohexane	6.590	84	1411237	13.581	ppbv	96
31) cis-1,2-Dichloroethene	5.063	61	1628471	13.023	ppbv	100
32) 1,1,1-Trichloroethane	5.989	97	2522136	11.940	ppbv	100
34) 2-Butanone	4.771	43	2330483	13.274	ppbv	99
35) Carbon Tetrachloride	6.481	117	2695636	12.269	ppbv	98
36) Benzene	6.359	78	3438269	12.487	ppbv	100
37) 1,2-Dichloroethane	5.793	62	1975307	12.503	ppbv	100
38) Trichloroethene	7.282	130	1582683	13.195	ppbv	98
39) 1,2-Dichloropropane	7.063	63	1340584	12.599	ppbv	96
40) 1,4-Dioxane	7.269	88	505735	14.825	ppbv	80
41) Tetrahydrofuran	5.542	42	1399340	12.868	ppbv	100
42) Bromodichloromethane	7.240	83	2836611	12.832	ppbv	99
43) Methyl Methacrylate	7.465	69	1415809	13.686	ppbv	100
44) 2,2,4-Trimethylpentane	7.314	57	5650271	12.075	ppbv	99
45) t-1,3-Dichloropropene	8.703	75	1508473	23.041	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041405.D
 Acq On : 25 Jul 2024 18:06
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/26/2024
 Supervised By : Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 02:45:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Jul 25 14:31:18 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	1956016	22.219	ppbv	96
47) 1,1,2-Trichloroethane	8.893	97	1451859	12.721	ppbv	96
48) Dibromochloromethane	9.706	129	2512083	13.707	ppbv	100
49) Bromoform	12.404	173	2210280	15.143	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	3807510	13.505	ppbv	99
51) 2-Hexanone	9.542	43	3193628	15.936	ppbv	100
52) Tetrachloroethene	10.610	164	1349134	12.202	ppbv	98
53) Toluene	9.214	91	4102245	13.210	ppbv	99
54) 1,2-Dibromoethane	10.002	107	2140365	15.154	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.503	131	1780102	11.753	ppbv #	58
57) Chlorobenzene	11.523	112	3158639	11.963	ppbv	98
58) Ethyl Benzene	12.082	91	5512808	12.242	ppbv	99
59) m/p-Xylene	12.365	91	9224976m	23.671	ppbv	
60) o-Xylene	13.053	91	4441698	12.076	ppbv	100
61) Styrene	12.892	104	2297760	12.864	ppbv	99
62) Isopropylbenzene	14.027	105	6413793	11.295	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.044	83	2691069	9.287	ppbv	99
64) n-propylbenzene	14.915	120	1752978	11.826	ppbv	100
65) tert-Butylbenzene	16.088	119	5746630	11.366	ppbv	99
66) Benzyl Chloride	16.323	91	487926	14.686	ppbv	99
67) sec-Butylbenzene	16.632	105	8009840	11.201	ppbv	98
69) p-Isopropyltoluene	16.992	119	6796381	11.508	ppbv	99
70) n-Butylbenzene	17.883	91	6996243	11.589	ppbv	98
71) 2-Chlorotoluene	14.796	91	4875167	11.557	ppbv	98
72) 4-Ethyltoluene	15.188	105	5320289	12.144	ppbv	97
73) 1,3,5-Trimethylbenzene	15.349	105	4587750	12.234	ppbv	99
74) 1,2,4-Trimethylbenzene	16.105	105	5066348	11.990	ppbv	97
75) 1,3-Dichlorobenzene	16.330	146	3202871	12.778	ppbv	100
76) 1,4-Dichlorobenzene	16.471	146	3142958	12.585	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	3101661	12.137	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	2444092	13.150	ppbv	99
79) Naphthalene	21.381	128	5532989	24.347	ppbv	99
80) Naphthalene,2-methyl-	24.368	142	5230189	8744.993	ppbv	100
81) 1,2,4-Trichlorobenzene	21.136	180	2891669	20.588	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 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	101	0.00
2 T	Dichlorodifluoromethane	10.000	9.847	1.5	119	0.00
3	Chlorodifluoromethane	10.000	8.981	10.2	100	0.00
4	Chloromethane	10.000	8.963	10.4	101	0.00
5 T	Vinyl Chloride	10.000	9.264	7.4	102	0.00
6 T	Bromomethane	10.000	9.214	7.9	101	0.00
7	Chloroethane	10.000	9.496	5.0	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.031	9.7	100	0.00
9 T	Propene	10.000	9.482	5.2	107	0.00
10 T	Heptane	10.000	9.841	1.6	101	0.00
11 T	Trichlorofluoromethane	10.000	8.800	12.0	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.941	10.6	99	0.00
13	Ethanol	10.000	6.269	37.3#	88	0.00
14 T	Bromoethene	10.000	9.593	4.1	100	0.00
15 T	Acetone	10.000	8.780	12.2	101	0.00
16 T	1,3-Butadiene	10.000	8.923	10.8	98	0.00
17	tert-Butyl alcohol	10.000	10.362	-3.6	103	0.00
18 T	1,1-Dichloroethene	10.000	9.602	4.0	100	0.00
19 T	Isopropyl Alcohol	10.000	8.805	12.0	91	0.00
20 T	Methylene Chloride	10.000	8.588	14.1	99	0.00
21 T	Allyl Chloride	10.000	9.744	2.6	101	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.627	3.7	102	0.00
23 T	Vinyl Acetate	10.000	10.238	-2.4	101	0.00
24 T	1,1-Dichloroethane	10.000	8.974	10.3	98	0.00
25 T	Ethyl Acetate	10.000	9.581	4.2	103	0.00
26 T	Hexane	10.000	9.737	2.6	103	0.00
27 T	Carbon Disulfide	10.000	9.875	1.3	97	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.572	4.3	102	0.00
29 T	Chloroform	10.000	9.179	8.2	100	0.00
30 T	Cyclohexane	10.000	10.217	-2.2	103	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.817	1.8	103	0.00
32 T	1,1,1-Trichloroethane	10.000	9.280	7.2	99	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	101	0.00
34 T	2-Butanone	10.000	9.886	1.1	103	0.00
35 T	Carbon Tetrachloride	10.000	9.425	5.7	96	0.00
36 T	Benzene	10.000	9.678	3.2	101	0.00
37 T	1,2-Dichloroethane	10.000	9.592	4.1	101	0.00
38 T	Trichloroethene	10.000	9.485	5.2	100	0.00
39 T	1,2-Dichloropropane	10.000	9.722	2.8	103	0.00
40 T	1,4-Dioxane	10.000	7.654	23.5	76	0.00
41 T	Tetrahydrofuran	10.000	10.640	-6.4	107	0.00
42 T	Bromodichloromethane	10.000	9.550	4.5	99	0.00
43	Methyl Methacrylate	10.000	10.898	-9.0	102	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.470	5.3	100	0.00
45 T	t-1,3-Dichloropropene	10.000	12.021	-20.2	102	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.015	-10.2	102	0.00
47 T	1,1,2-Trichloroethane	10.000	9.452	5.5	100	0.00
48 T	Dibromochloromethane	10.000	9.797	2.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 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	10.340	-3.4	98	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.222	-2.2	102	0.00
51 T	2-Hexanone	10.000	10.994	-9.9	101	0.00
52 T	Tetrachloroethene	10.000	9.604	4.0	101	0.00
53 T	Toluene	10.000	10.183	-1.8	101	0.00
54 T	1,2-Dibromoethane	10.000	10.313	-3.1	100	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	10.000	8.940	10.6	97	0.00
57 T	Chlorobenzene	10.000	8.892	11.1	99	0.00
58 T	Ethyl Benzene	10.000	9.542	4.6	100	0.00
59 T	m/p-Xylene	20.000	18.591	7.0	99	0.00
60 T	o-Xylene	10.000	9.434	5.7	100	0.00
61 T	Styrene	10.000	10.485	-4.8	100	0.00
62	Isopropylbenzene	10.000	9.026	9.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.895	11.1	97	0.00
64	n-propylbenzene	10.000	9.254	7.5	98	0.00
65	tert-Butylbenzene	10.000	8.930	10.7	98	0.00
66 T	Benzyl Chloride	10.000	11.045	-10.4	104	0.00
67	sec-Butylbenzene	10.000	9.010	9.9	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.830	1.7	101	0.00
69	p-Isopropyltoluene	10.000	9.165	8.4	97	0.00
70	n-Butylbenzene	10.000	9.165	8.4	97	0.00
71	2-Chlorotoluene	10.000	9.245	7.6	99	0.00
72 T	4-Ethyltoluene	10.000	9.535	4.6	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.563	4.4	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.057	9.4	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.027	9.7	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.089	9.1	98	0.00
77 T	1,2-Dichlorobenzene	10.000	8.874	11.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.012	19.9	99	0.00
79 T	Naphthalene	10.000	10.810	-8.1	98	0.00
80 T	Naphthalene,2-methyl-	10.000	11.790	-17.9	102	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.517	4.8	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 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	101	0.00
2 T	Dichlorodifluoromethane	1.720	1.694	1.5	119	0.00
3	Chlorodifluoromethane	1.190	1.069	10.2	100	0.00
4	Chloromethane	0.633	0.568	10.3	101	0.00
5 T	Vinyl Chloride	0.624	0.578	7.4	102	0.00
6 T	Bromomethane	0.321	0.296	7.8	101	0.00
7	Chloroethane	0.215	0.205	4.7	102	0.00
8 T	Dichlorotetrafluoroethane	1.524	1.377	9.6	100	0.00
9 T	Propene	0.547	0.519	5.1	107	0.00
10 T	Heptane	1.229	1.209	1.6	101	0.00
11 T	Trichlorofluoromethane	1.528	1.345	12.0	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.100	0.984	10.5	99	0.00
13	Ethanol	0.049	0.031#	36.7#	88	0.00
14 T	Bromoethene	0.429	0.411	4.2	100	0.00
15 T	Acetone	1.136	0.998	12.1	101	0.00
16 T	1,3-Butadiene	0.607	0.542	10.7	98	0.00
17	tert-Butyl alcohol	1.036	1.074	-3.7	103	0.00
18 T	1,1-Dichloroethene	0.471	0.452	4.0	100	0.00
19 T	Isopropyl Alcohol	0.664	0.585	11.9	91	0.00
20 T	Methylene Chloride	0.424	0.364	14.2	99	0.00
21 T	Allyl Chloride	0.745	0.726	2.6	101	0.00
22 T	trans-1,2-Dichloroethene	0.471	0.453	3.8	102	0.00
23 T	Vinyl Acetate	0.868	0.888	-2.3	101	0.00
24 T	1,1-Dichloroethane	1.022	0.917	10.3	98	0.00
25 T	Ethyl Acetate	2.257	2.163	4.2	103	0.00
26 T	Hexane	0.936	0.912	2.6	103	0.00
27 T	Carbon Disulfide	1.095	1.082	1.2	97	0.00
28 T	Methyl tert-Butyl Ether	0.591	0.565	4.4	102	0.00
29 T	Chloroform	1.527	1.402	8.2	100	0.00
30 T	Cyclohexane	0.763	0.779	-2.1	103	0.00
31 T	cis-1,2-Dichloroethene	0.925	0.908	1.8	103	0.00
32 T	1,1,1-Trichloroethane	1.487	1.380	7.2	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
34 T	2-Butanone	0.484	0.478	1.2	103	0.00
35 T	Carbon Tetrachloride	0.552	0.520	5.8	96	0.00
36 T	Benzene	0.731	0.707	3.3	101	0.00
37 T	1,2-Dichloroethane	0.409	0.392	4.2	101	0.00
38 T	Trichloroethene	0.335	0.318	5.1	100	0.00
39 T	1,2-Dichloropropane	0.280	0.272	2.9	103	0.00
40 T	1,4-Dioxane	0.112	0.086	23.2	76	0.00
41 T	Tetrahydrofuran	0.277	0.294	-6.1	107	0.00
42 T	Bromodichloromethane	0.591	0.564	4.6	99	0.00
43	Methyl Methacrylate	0.262	0.286	-9.2	102	0.00
44 T	2,2,4-Trimethylpentane	1.220	1.156	5.2	100	0.00
45 T	t-1,3-Dichloropropene	0.241	0.290	-20.3	102	0.00
46 T	cis-1,3-Dichloropropene	0.348	0.384	-10.3	102	0.00
47 T	1,1,2-Trichloroethane	0.308	0.291	5.5	100	0.00
48 T	Dibromochloromethane	0.497	0.487	2.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041406.D
 Acq On : 25 Jul 2024 19:31
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072524

Quant Time: Jul 29 01:38:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 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	0.420	0.434	-3.3	98	0.00
50 T	4-Methyl-2-Pentanone	0.763	0.780	-2.2	102	0.00
51 T	2-Hexanone	0.577	0.634	-9.9	101	0.00
52 T	Tetrachloroethene	0.282	0.271	3.9	101	0.00
53 T	Toluene	0.814	0.829	-1.8	101	0.00
54 T	1,2-Dibromoethane	0.410	0.423	-3.2	100	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	0.388	0.347	10.6	97	0.00
57 T	Chlorobenzene	0.712	0.633	11.1	99	0.00
58 T	Ethyl Benzene	1.153	1.100	4.6	100	0.00
59 T	m/p-Xylene	0.995	0.925	7.0	99	0.00
60 T	o-Xylene	0.941	0.888	5.6	100	0.00
61 T	Styrene	0.425	0.445	-4.7	100	0.00
62	Isopropylbenzene	1.431	1.292	9.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.594	0.529	10.9	97	0.00
64	n-propylbenzene	0.374	0.346	7.5	98	0.00
65	tert-Butylbenzene	1.292	1.154	10.7	98	0.00
66 T	Benzyl Chloride	0.083	0.092	-10.8	104	0.00
67	sec-Butylbenzene	1.781	1.604	9.9	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.770	0.756	1.8	101	0.00
69	p-Isopropyltoluene	1.478	1.354	8.4	97	0.00
70	n-Butylbenzene	1.515	1.388	8.4	97	0.00
71	2-Chlorotoluene	1.055	0.976	7.5	99	0.00
72 T	4-Ethyltoluene	1.108	1.057	4.6	97	0.00
73 T	1,3,5-Trimethylbenzene	0.955	0.913	4.4	98	0.00
74 T	1,2,4-Trimethylbenzene	1.110	1.005	9.5	98	0.00
75 T	1,3-Dichlorobenzene	0.698	0.630	9.7	98	0.00
76 T	1,4-Dichlorobenzene	0.676	0.614	9.2	98	0.00
77 T	1,2-Dichlorobenzene	0.692	0.614	11.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.590	0.473	19.8	99	0.00
79 T	Naphthalene	0.980	1.059	-8.1	98	0.00
80 T	Naphthalene,2-methyl-	0.821	0.968	-17.9	102	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.555	4.8	99	0.00

(#) = Out of Range

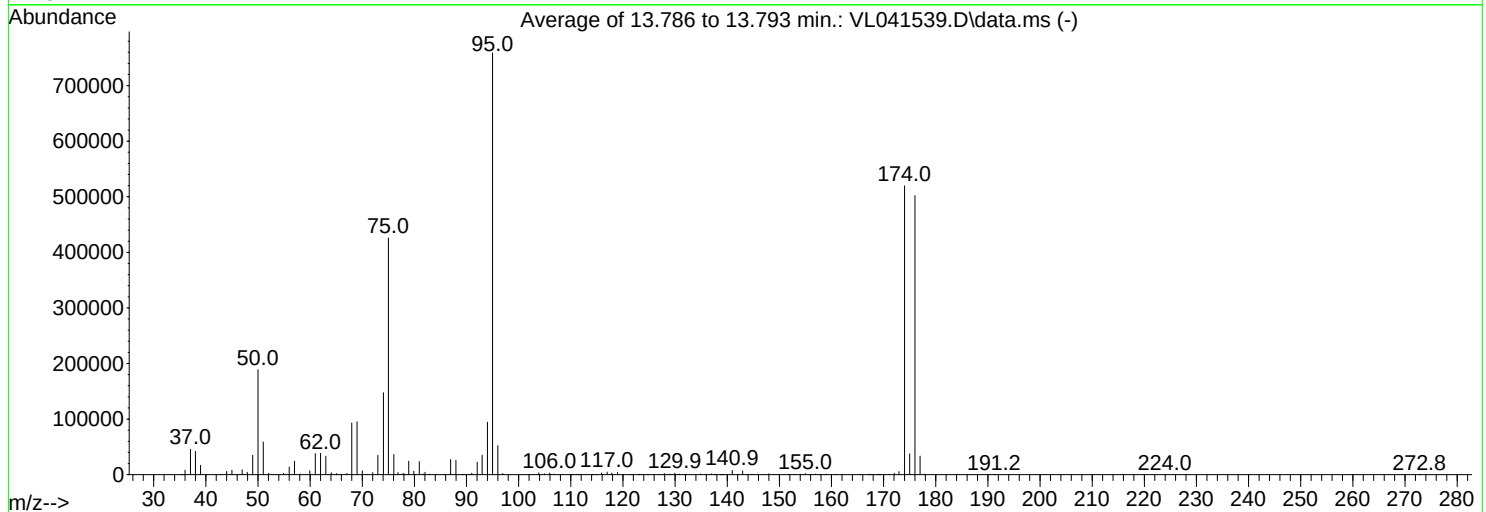
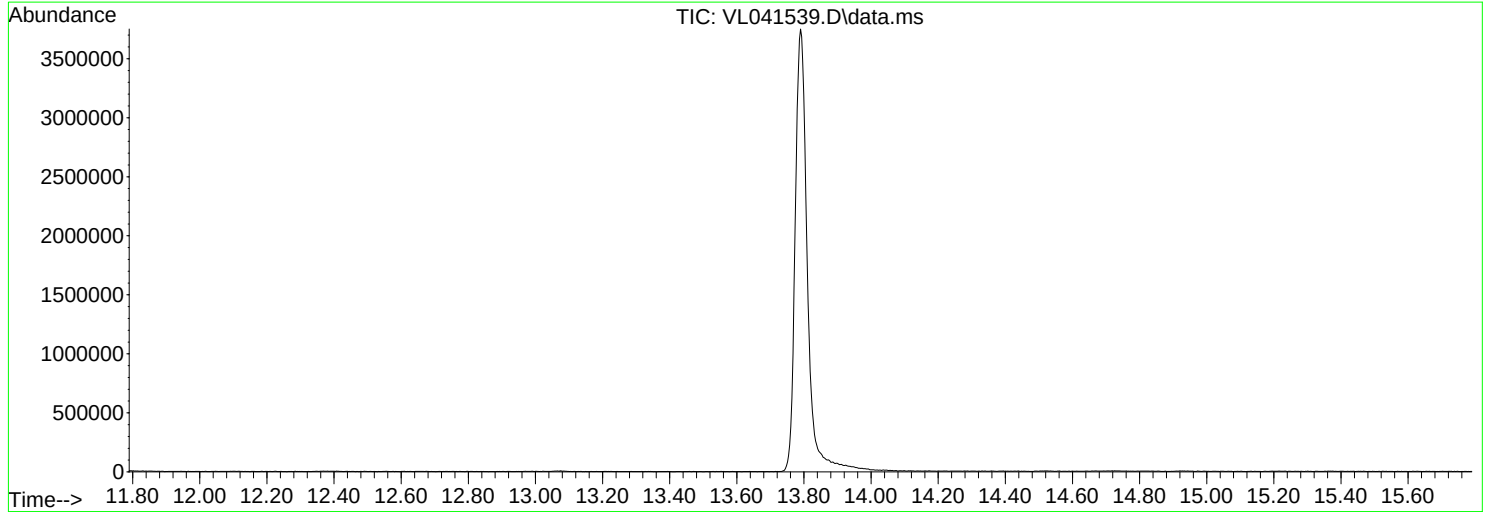
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041539.D
Acq On : 19 Aug 2024 8:10
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\VL072524AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Aug 20 02:10:04 2024



AutoFind: Scans 3478, 3479, 3480; Background Corrected with Scan 3456

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	188907	PASS
75	95	30	66	56.1	425728	PASS
95	95	100	100	100.0	758997	PASS
96	95	5	9	6.9	52083	PASS
173	174	0.00	2	1.0	5439	PASS
174	95	50	120	68.5	519701	PASS
175	174	4	9	7.2	37573	PASS
176	174	93	101	96.6	502080	PASS
177	176	5	9	6.6	33307	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 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 08/20/2024
 Supervised By : Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:13:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	949994	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2559374	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2515938m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.799 95 1947516 10.059 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	884681	5.413	ppbv	99
3) Chlorodifluoromethane	2.693	51	1159695	10.254	ppbv	100
4) Chloromethane	2.832	50	629369	10.463	ppbv	99
5) Vinyl Chloride	2.938	62	619805	10.454	ppbv	99
6) Bromomethane	3.137	94	327691	10.754	ppbv	92
7) Chloroethane	3.214	64	229324	11.207	ppbv	97
8) Dichlorotetrafluoroethane	2.874	85	1383474	9.554	ppbv	100
9) Propene	2.713	41	521016	10.029	ppbv	98
10) Heptane	7.597	43	1321671	11.323	ppbv	99
11) Trichlorofluoromethane	3.581	101	1519219	10.467	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.082	101	1094070	10.468	ppbv	98
13) Ethanol	3.256	45	36044m	7.762	ppbv	
14) Bromoethene	3.385	108	440924	10.821	ppbv	99
15) Acetone	3.484	43	1130098	10.470	ppbv	100
16) 1,3-Butadiene	3.002	39	624120	10.822	ppbv	97
17) tert-Butyl alcohol	3.893	59	1096646	11.140	ppbv	100
18) 1,1-Dichloroethene	3.899	96	487068	10.895	ppbv	92
19) Isopropyl Alcohol	3.591	45	651343	10.322	ppbv #	96
20) Methylene Chloride	3.951	84	412911	10.258	ppbv	98
21) Allyl Chloride	4.012	41	770702	10.888	ppbv	100
22) trans-1,2-Dichloroethene	4.462	96	491446	10.994	ppbv	98
23) Vinyl Acetate	4.642	43	966046	11.719	ppbv #	98
24) 1,1-Dichloroethane	4.581	63	1045215	10.768	ppbv	99
25) Ethyl Acetate	5.221	43	2381732	11.107	ppbv	99
26) Hexane	5.230	57	979260	11.009	ppbv	99
27) Carbon Disulfide	4.144	76	1163109	11.177	ppbv	99
28) Methyl tert-Butyl Ether	4.603	73	587594	10.474	ppbv	100
29) Chloroform	5.295	83	1547234	10.664	ppbv	99
30) Cyclohexane	6.623	84	817710	11.288	ppbv	99
31) cis-1,2-Dichloroethene	5.095	61	948884	10.798	ppbv	98
32) 1,1,1-Trichloroethane	6.021	97	1527033	10.812	ppbv	99
34) 2-Butanone	4.803	43	1405398	11.352	ppbv	99
35) Carbon Tetrachloride	6.513	117	1609727	11.403	ppbv	99
36) Benzene	6.391	78	2059410	11.012	ppbv	99
37) 1,2-Dichloroethane	5.825	62	1153588	11.021	ppbv	99
38) Trichloroethene	7.311	130	978782	11.424	ppbv	97
39) 1,2-Dichloropropane	7.095	63	811438	11.333	ppbv	97
40) 1,4-Dioxane	7.307	88	311632	10.835	ppbv	78
41) Tetrahydrofuran	5.574	42	831216	11.739	ppbv	98
42) Bromodichloromethane	7.269	83	1693152	11.203	ppbv	99
43) Methyl Methacrylate	7.494	69	821493	12.250	ppbv	97
44) 2,2,4-Trimethylpentane	7.343	57	3513799	11.249	ppbv	99
45) t-1,3-Dichloropropene	8.729	75	843236	13.661	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 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 08/20/2024
 Supervised By : Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:13:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 20 02:13:28 2024

QLast Update : Tue Aug 20 02:10:04 2024

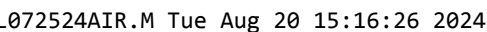
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.163	75	1113175	12.489	ppbv	97
47) 1,1,2-Trichloroethane	8.918	97	874878	11.085	ppbv	96
48) Dibromochloromethane	9.732	129	1471389	11.573	ppbv	100
49) Bromoform	12.429	173	1290363	12.015	ppbv	99
50) 4-Methyl-2-Pentanone	8.198	43	2348083	12.021	ppbv	100
51) 2-Hexanone	9.571	43	1889904	12.796	ppbv #	98
52) Tetrachloroethene	10.635	164	785134	10.865	ppbv	98
53) Toluene	9.240	91	2434932	11.689	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1279830	12.183	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.529	131	1082376	11.093	ppbv #	57
57) Chlorobenzene	11.545	112	1917343	10.704	ppbv	99
58) Ethyl Benzene	12.111	91	3295215	11.363	ppbv	100
59) m/p-Xylene	12.394	91	5677231m	22.679	ppbv	
60) o-Xylene	13.079	91	2717555	11.476	ppbv	100
61) Styrene	12.918	104	1314555	12.305	ppbv	99
62) Isopropylbenzene	14.050	105	3944805	10.958	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.069	83	1675653	11.206	ppbv	99
64) n-propylbenzene	14.937	120	1056999	11.231	ppbv	95
65) tert-Butylbenzene	16.111	119	3568987	10.976	ppbv	100
66) Benzyl Chloride	16.346	91	294537	14.122	ppbv	98
67) sec-Butylbenzene	16.658	105	5012445	11.189	ppbv	99
69) p-Isopropyltoluene	17.018	119	4225410	11.366	ppbv	100
70) n-Butylbenzene	17.908	91	4335585	11.376	ppbv	100
71) 2-Chlorotoluene	14.822	91	2983953	11.240	ppbv	99
72) 4-Ethyltoluene	15.214	105	3230798	11.588	ppbv	98
73) 1,3,5-Trimethylbenzene	15.371	105	2794784	11.636	ppbv	98
74) 1,2,4-Trimethylbenzene	16.127	105	3136247	11.232	ppbv	97
75) 1,3-Dichlorobenzene	16.355	146	1953807	11.131	ppbv	100
76) 1,4-Dichlorobenzene	16.494	146	1933808	11.378	ppbv	98
77) 1,2-Dichlorobenzene	17.162	146	1900542	10.922	ppbv	100
78) Hexachloro-1,3-Butadiene	22.657	225	1416463	9.546	ppbv	99
79) Naphthalene	21.410	128	3145958	12.765	ppbv	99
80) Naphthalene,2-methyl-	24.390	142	2696816	13.054	ppbv	100
81) 1,2,4-Trichlorobenzene	21.162	180	1663658	11.343	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Aug 20 02:13:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 20 02:13:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 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	77	0.00
2 T	Dichlorodifluoromethane	1.720	0.931	45.9#	51	0.00
3	Chlorodifluoromethane	1.190	1.221	-2.6	88	0.00
4	Chloromethane	0.633	0.662	-4.6	91	0.00
5 T	Vinyl Chloride	0.624	0.652	-4.5	89	0.00
6 T	Bromomethane	0.321	0.345	-7.5	91	0.00
7	Chloroethane	0.215	0.241	-12.1	92	0.00
8 T	Dichlorotetrafluoroethane	1.524	1.456	4.5	82	0.00
9 T	Propene	0.547	0.548	-0.2	87	0.00
10 T	Heptane	1.229	1.391	-13.2	90	0.00
11 T	Trichlorofluoromethane	1.528	1.599	-4.6	90	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.100	1.152	-4.7	89	0.00
13	Ethanol	0.049	0.038#	22.4	84	0.00
14 T	Bromoethene	0.429	0.464	-8.2	87	0.00
15 T	Acetone	1.136	1.190	-4.8	92	0.00
16 T	1,3-Butadiene	0.607	0.657	-8.2	92	0.00
17	tert-Butyl alcohol	1.036	1.154	-11.4	85	0.00
18 T	1,1-Dichloroethene	0.471	0.513	-8.9	87	0.00
19 T	Isopropyl Alcohol	0.664	0.686	-3.3	82	0.00
20 T	Methylene Chloride	0.424	0.435	-2.6	91	0.00
21 T	Allyl Chloride	0.745	0.811	-8.9	87	0.00
22 T	trans-1,2-Dichloroethene	0.471	0.517	-9.8	89	0.00
23 T	Vinyl Acetate	0.868	1.017	-17.2	89	0.00
24 T	1,1-Dichloroethane	1.022	1.100	-7.6	91	0.00
25 T	Ethyl Acetate	2.257	2.507	-11.1	92	0.00
26 T	Hexane	0.936	1.031	-10.1	90	0.00
27 T	Carbon Disulfide	1.095	1.224	-11.8	85	0.00
28 T	Methyl tert-Butyl Ether	0.591	0.619	-4.7	86	0.00
29 T	Chloroform	1.527	1.629	-6.7	89	0.00
30 T	Cyclohexane	0.763	0.861	-12.8	87	0.00
31 T	cis-1,2-Dichloroethene	0.925	0.999	-8.0	87	0.00
32 T	1,1,1-Trichloroethane	1.487	1.607	-8.1	89	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
34 T	2-Butanone	0.484	0.549	-13.4	90	0.00
35 T	Carbon Tetrachloride	0.552	0.629	-13.9	88	0.00
36 T	Benzene	0.731	0.805	-10.1	87	0.00
37 T	1,2-Dichloroethane	0.409	0.451	-10.3	88	0.00
38 T	Trichloroethene	0.335	0.382	-14.0	91	0.00
39 T	1,2-Dichloropropane	0.280	0.317	-13.2	91	0.00
40 T	1,4-Dioxane	0.112	0.122	-8.9	81	0.00
41 T	Tetrahydrofuran	0.277	0.325	-17.3	89	0.00
42 T	Bromodichloromethane	0.591	0.662	-12.0	88	0.00
43	Methyl Methacrylate	0.262	0.321	-22.5	87	0.00
44 T	2,2,4-Trimethylpentane	1.220	1.373	-12.5	90	0.00
45 T	t-1,3-Dichloropropene	0.241	0.329	-36.5#	88	0.00
46 T	cis-1,3-Dichloropropene	0.348	0.435	-25.0	87	0.00
47 T	1,1,2-Trichloroethane	0.308	0.342	-11.0	89	0.00
48 T	Dibromochloromethane	0.497	0.575	-15.7	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041540.D
 Acq On : 19 Aug 2024 8:59
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 20 02:13:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 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	0.420	0.504	-20.0	86	0.00
50 T	4-Methyl-2-Pentanone	0.763	0.917	-20.2	90	0.00
51 T	2-Hexanone	0.577	0.738	-27.9	88	0.00
52 T	Tetrachloroethene	0.282	0.307	-8.9	86	0.00
53 T	Toluene	0.814	0.951	-16.8	88	0.00
54 T	1,2-Dibromoethane	0.410	0.500	-22.0	89	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
56	1,1,1,2-Tetrachloroethane	0.388	0.430	-10.8	89	0.00
57 T	Chlorobenzene	0.712	0.762	-7.0	88	0.00
58 T	Ethyl Benzene	1.153	1.310	-13.6	88	0.00
59 T	m/p-Xylene	0.995	1.128	-13.4	89	0.00
60 T	o-Xylene	0.941	1.080	-14.8	89	0.00
61 T	Styrene	0.425	0.522	-22.8	87	0.00
62	Isopropylbenzene	1.431	1.568	-9.6	88	0.00
63 T	1,1,2,2-Tetrachloroethane	0.594	0.666	-12.1	90	0.00
64	n-propylbenzene	0.374	0.420	-12.3	88	0.00
65	tert-Butylbenzene	1.292	1.419	-9.8	89	0.00
66 T	Benzyl Chloride	0.083	0.117	-41.0#	98	0.00
67	sec-Butylbenzene	1.781	1.992	-11.8	89	0.00
68 S	1-Bromo-4-Fluorobenzene	0.770	0.774	-0.5	76	0.00
69	p-Isopropyltoluene	1.478	1.679	-13.6	89	0.00
70	n-Butylbenzene	1.515	1.723	-13.7	89	0.00
71	2-Chlorotoluene	1.055	1.186	-12.4	89	0.00
72 T	4-Ethyltoluene	1.108	1.284	-15.9	87	0.00
73 T	1,3,5-Trimethylbenzene	0.955	1.111	-16.3	88	0.00
74 T	1,2,4-Trimethylbenzene	1.110	1.247	-12.3	90	0.00
75 T	1,3-Dichlorobenzene	0.698	0.777	-11.3	89	0.00
76 T	1,4-Dichlorobenzene	0.676	0.769	-13.8	90	0.00
77 T	1,2-Dichlorobenzene	0.692	0.755	-9.1	89	0.00
78 T	Hexachloro-1,3-Butadiene	0.590	0.563	4.6	87	0.00
79 T	Naphthalene	0.980	1.250	-27.6	86	0.00
80 T	Naphthalene,2-methyl-	0.821	1.072	-30.6#	83	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.661	-13.4	87	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041541.D
 Acq On : 19 Aug 2024 10:07
 Operator : SY/MD
 Sample : VL0819ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0819ABL01

Quant Time: Aug 20 02:14:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	895764	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2374230	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2131055	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.799	95	1588219	9.684	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

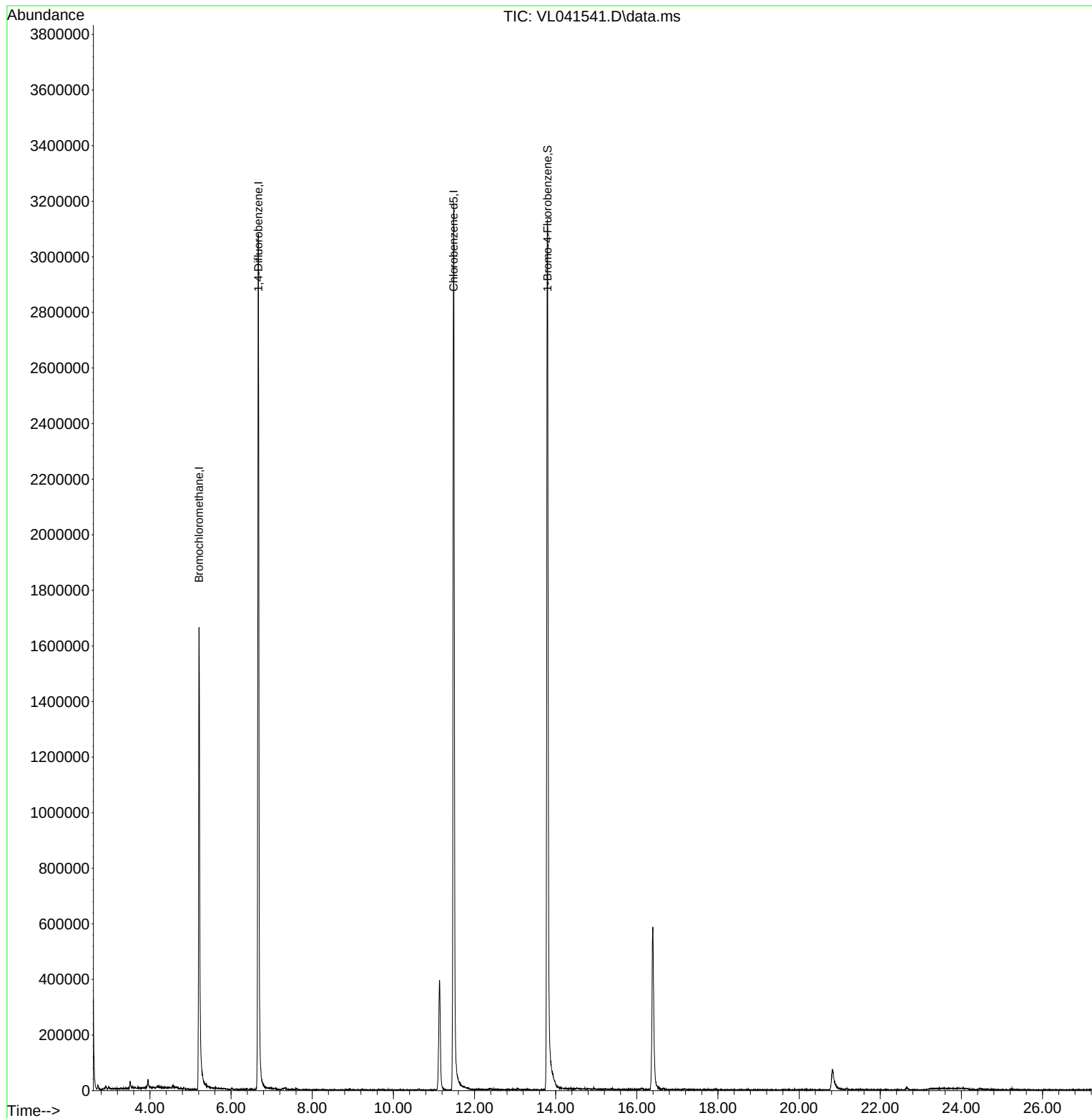
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041541.D
Acq On : 19 Aug 2024 10:07
Operator : SY/MD
Sample : VL0819ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0819ABL01

Quant Time: Aug 20 02:14:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041542.D
 Acq On : 19 Aug 2024 10:48
 Operator : SY/MD
 Sample : VL0819ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0819ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/20/2024
 Supervised By : Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:14:35 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 20 02:14:35 2024

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	953834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2568604	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2570572	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.796 95 1934486 9.779 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	866011	5.278	ppbv	100
3) Chlorodifluoromethane	2.694	51	1148497	10.115	ppbv	100
4) Chloromethane	2.832	50	626957	10.381	ppbv	99
5) Vinyl Chloride	2.941	62	632244	10.621	ppbv	96
6) Bromomethane	3.141	94	337860	11.043	ppbv	98
7) Chloroethane	3.214	64	227400	11.069	ppbv	96
8) Dichlorotetrafluoroethane	2.877	85	1381485	9.502	ppbv	99
9) Propene	2.713	41	529749	10.156	ppbv	98
10) Heptane	7.600	43	1331349	11.360	ppbv	100
11) Trichlorofluoromethane	3.581	101	1495695	10.264	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.086	101	1072747	10.223	ppbv	100
13) Ethanol	3.259	45	36448m	7.818	ppbv	
14) Bromoethene	3.385	108	429951	10.510	ppbv	99
15) Acetone	3.488	43	1136536	10.487	ppbv	99
16) 1,3-Butadiene	3.005	39	616058	10.640	ppbv	99
17) tert-Butyl alcohol	3.896	59	1138725	11.521	ppbv	100
18) 1,1-Dichloroethene	3.899	96	490575	10.929	ppbv	96
19) Isopropyl Alcohol	3.594	45	662593	10.458	ppbv #	98
20) Methylene Chloride	3.951	84	468002	11.580	ppbv	95
21) Allyl Chloride	4.015	41	776304	10.923	ppbv	100
22) trans-1,2-Dichloroethene	4.465	96	469979	10.471	ppbv	97
23) Vinyl Acetate	4.645	43	984169	11.890	ppbv #	98
24) 1,1-Dichloroethane	4.581	63	1033773	10.608	ppbv	99
25) Ethyl Acetate	5.224	43	2417577	11.229	ppbv	99
26) Hexane	5.234	57	1027698	11.507	ppbv	97
27) Carbon Disulfide	4.144	76	1155043	11.055	ppbv	99
28) Methyl tert-Butyl Ether	4.603	73	589223	10.461	ppbv	100
29) Chloroform	5.295	83	1534946	10.536	ppbv	99
30) Cyclohexane	6.623	84	826550	11.364	ppbv	99
31) cis-1,2-Dichloroethene	5.099	61	959317	10.873	ppbv	99
32) 1,1,1-Trichloroethane	6.025	97	1517453	10.701	ppbv	100
34) 2-Butanone	4.806	43	1409794	11.346	ppbv	100
35) Carbon Tetrachloride	6.513	117	1592749	11.242	ppbv	98
36) Benzene	6.391	78	2079587	11.080	ppbv	98
37) 1,2-Dichloroethane	5.829	62	1168791	11.126	ppbv	100
38) Trichloroethene	7.311	130	970933	11.292	ppbv	97
39) 1,2-Dichloropropane	7.095	63	802701	11.171	ppbv	96
40) 1,4-Dioxane	7.308	88	276693	9.586	ppbv #	52
41) Tetrahydrofuran	5.574	42	830620	11.688	ppbv	98
42) Bromodichloromethane	7.269	83	1674518	11.039	ppbv	98
43) Methyl Methacrylate	7.494	69	830856	12.345	ppbv	99
44) 2,2,4-Trimethylpentane	7.346	57	3498360	11.160	ppbv	99
45) t-1,3-Dichloropropene	8.732	75	832465	13.438	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041542.D
 Acq On : 19 Aug 2024 10:48
 Operator : SY/MD
 Sample : VL0819ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0819ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/20/2024
 Supervised By : Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:14:35 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 20 02:14:35 2024

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.166	75	1134089	12.678	ppbv	98
47) 1,1,2-Trichloroethane	8.922	97	871843	11.007	ppbv	98
48) Dibromochloromethane	9.732	129	1455263	11.405	ppbv	100
49) Bromoform	12.430	173	1269504	11.778	ppbv	99
50) 4-Methyl-2-Pentanone	8.201	43	2350707	11.991	ppbv	99
51) 2-Hexanone	9.571	43	1863582	12.572	ppbv #	99
52) Tetrachloroethene	10.639	164	782284	10.787	ppbv	98
53) Toluene	9.243	91	2430940	11.628	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1250868	11.865	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.529	131	1071372	10.747	ppbv #	59
57) Chlorobenzene	11.549	112	1920481	10.493	ppbv	98
58) Ethyl Benzene	12.111	91	3271939	11.043	ppbv	98
59) m/p-Xylene	12.391	91	5625619m	21.995	ppbv	
60) o-Xylene	13.079	91	2684986	11.097	ppbv	100
61) Styrene	12.918	104	1314788	12.045	ppbv	98
62) Isopropylbenzene	14.050	105	3916892	10.649	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.069	83	1660380	10.867	ppbv	100
64) n-propylbenzene	14.937	120	1051699	10.937	ppbv	95
65) tert-Butylbenzene	16.111	119	3561329	10.720	ppbv	100
66) Benzyl Chloride	16.349	91	293870	13.791	ppbv	99
67) sec-Butylbenzene	16.658	105	4963512	10.844	ppbv	100
69) p-Isopropyltoluene	17.015	119	4185466	11.019	ppbv	99
70) n-Butylbenzene	17.908	91	4322218	11.100	ppbv	100
71) 2-Chlorotoluene	14.822	91	2956439	10.899	ppbv	99
72) 4-Ethyltoluene	15.214	105	3303117	11.596	ppbv	99
73) 1,3,5-Trimethylbenzene	15.372	105	2807444	11.440	ppbv	98
74) 1,2,4-Trimethylbenzene	16.130	105	3111891	10.908	ppbv	99
75) 1,3-Dichlorobenzene	16.352	146	1936719	10.799	ppbv	100
76) 1,4-Dichlorobenzene	16.494	146	1874477	10.794	ppbv	99
77) 1,2-Dichlorobenzene	17.166	146	1866349	10.498	ppbv	100
78) Hexachloro-1,3-Butadiene	22.654	225	1419954	9.366	ppbv	100
79) Naphthalene	21.407	128	3143301	12.483	ppbv	99
80) Naphthalene,2-methyl-	24.394	142	2571622	12.183	ppbv	99
81) 1,2,4-Trichlorobenzene	21.166	180	1655281	11.046	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041543.D
 Acq On : 19 Aug 2024 11:29
 Operator : SY/MD
 Sample : QC081324 CAN 10604
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC081324 CAN 10604

Quant Time: Aug 20 02:15:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	990128	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2684055	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2394412	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1834029	9.953	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

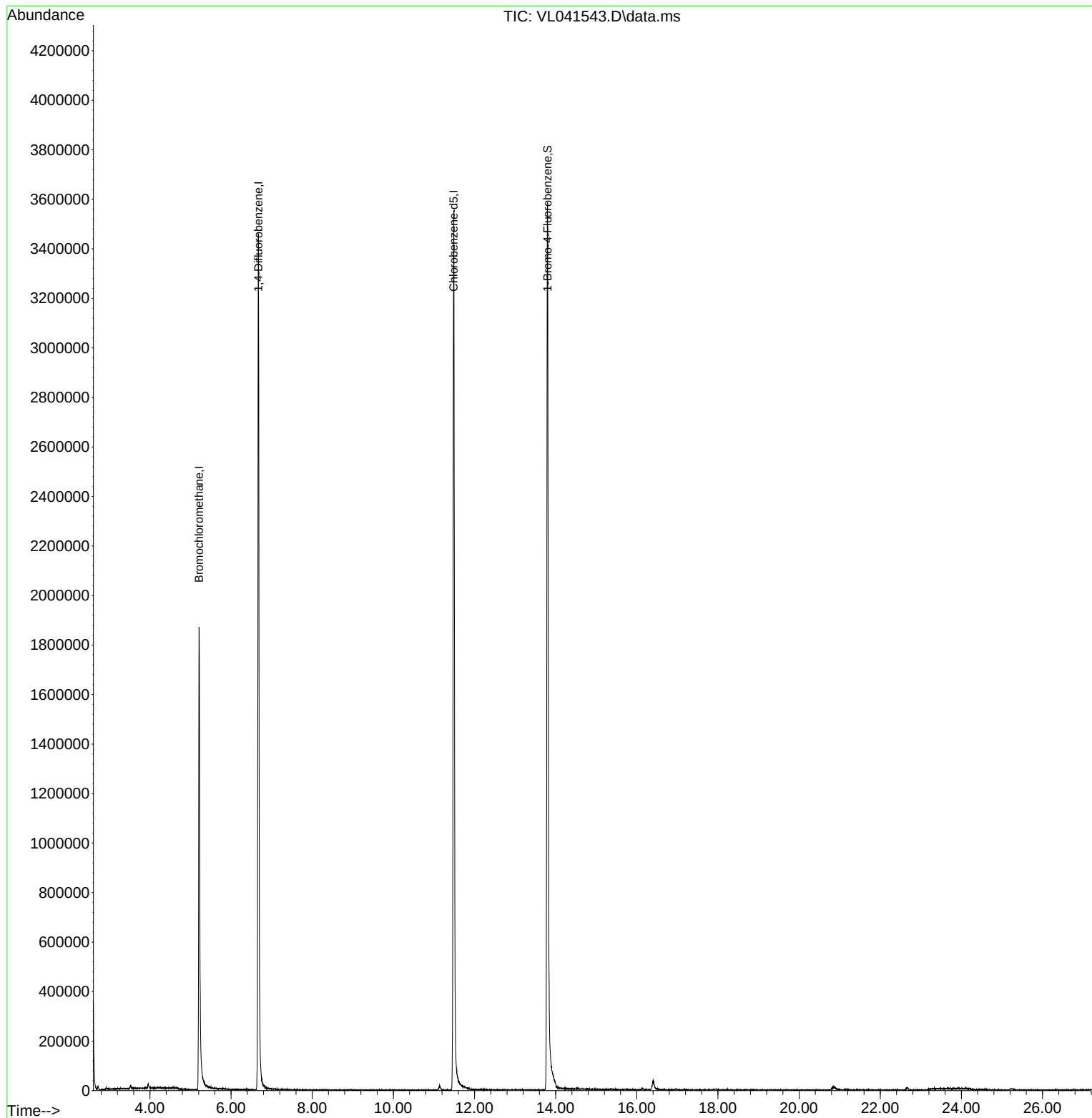
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041543.D
Acq On : 19 Aug 2024 11:29
Operator : SY/MD
Sample : QC081324 CAN 10604
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC081324 CAN 10604

Quant Time: Aug 20 02:15:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration

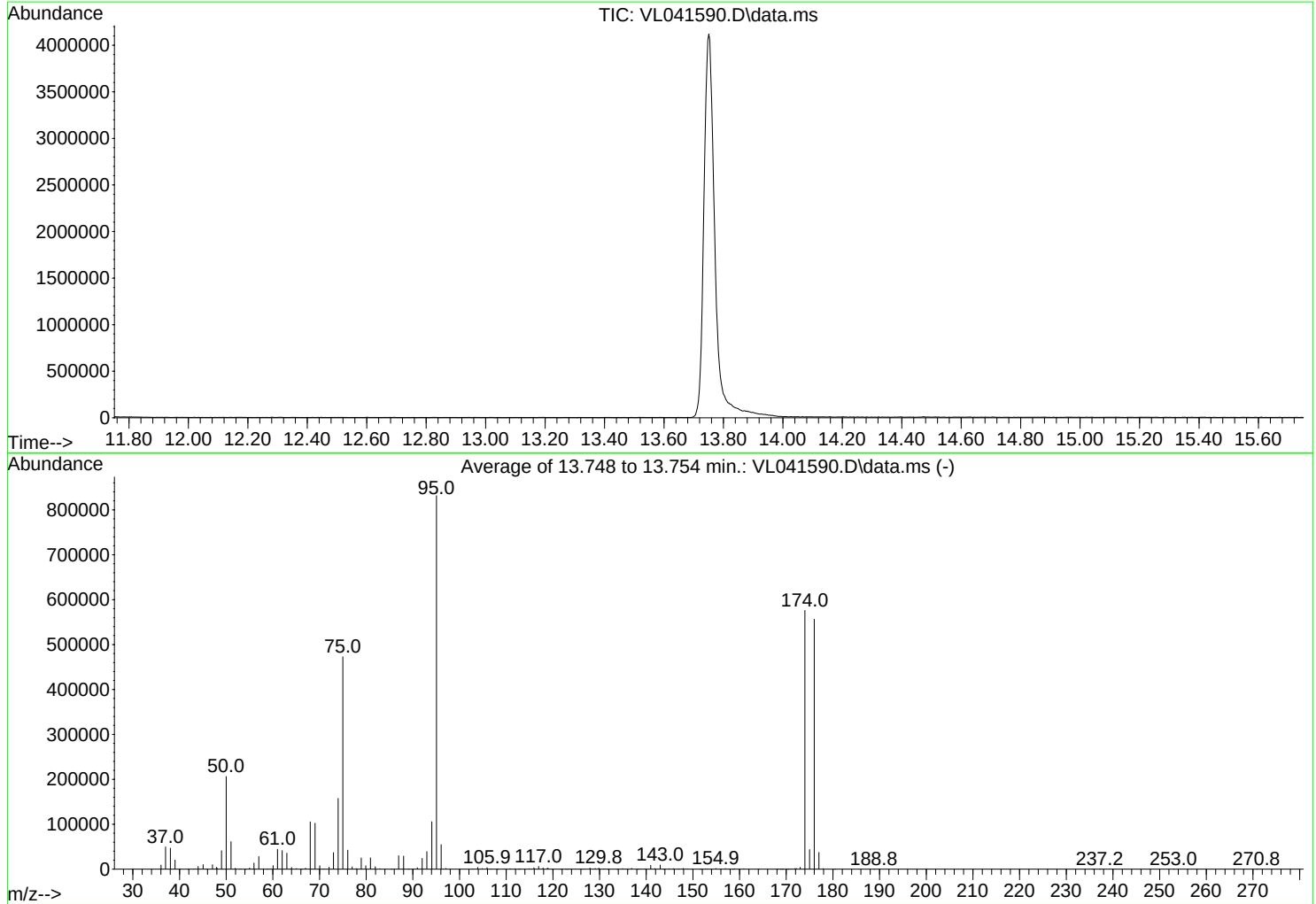


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
Data File : VL041590.D
Acq On : 16 Sep 2024 11:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 17 09:12:21 2024



AutoFind: Scans 3466, 3467, 3468; Background Corrected with Scan 3441

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.8	206293	PASS
75	95	30	66	56.9	472747	PASS
95	95	100	100	100.0	831488	PASS
96	95	5	9	6.6	54749	PASS
173	174	0.00	2	0.7	4144	PASS
174	95	50	120	69.3	576085	PASS
175	174	4	9	7.6	43507	PASS
176	174	93	101	96.6	556480	PASS
177	176	5	9	6.7	37259	PASS

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

Method File : VL091624AIR.M

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

Last Update : Tue Sep 17 09:12:21 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041597.D 0.1 =VL041596.D 0.5 =VL041591.D 1 =VL041594.D 2 =VL041593.D 10 =VL041592.D 15 =VL041598.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			2.008	1.517	1.307	1.311	1.078	1.444	24.33
3) Chlorodifluoro...			1.427	1.234	1.245	1.104	1.055	1.213	11.94
4) Chloromethane			0.775	0.677	0.681	0.611	0.592	0.667	10.74
5) T Vinyl Chloride	0.459	0.525	0.634	0.633	0.625	0.587	0.580	0.578	11.28
6) T Bromomethane			0.325	0.277	0.298	0.274	0.262	0.287	8.62
7) Chloroethane			0.264	0.222	0.219	0.213	0.205	0.225	10.30
8) T Dichlorotetra...			1.783	1.546	1.526	1.422	1.298	1.515	11.84
9) T Propene			0.501	0.517	0.538	0.513	0.489	0.512	3.61
10) T Heptane			1.051	1.173	1.259	1.270	1.237	1.198	7.55
11) T Trichlorofluor...			1.732	1.636	1.535	1.429	1.353	1.537	9.95
12) T 1,1,2-Trichlor...			1.226	1.162	1.152	1.040	0.986	1.113	8.77
13) Ethanol			0.047	0.057	0.046	0.024	0.018	0.038#	42.94
14) T Bromoethene			0.429	0.421	0.427	0.423	0.410	0.422	1.76
15) T Acetone			1.775	1.244	1.240	1.027	0.990	1.255	24.97
16) T 1,3-Butadiene			0.674	0.612	0.622	0.579	0.566	0.611	6.93
17) tert-Butyl alc...			1.085	1.138	1.172	1.090	1.036	1.104	4.75
18) T 1,1-Dichloroet...			0.463	0.490	0.482	0.476	0.445	0.471	3.79
19) T Isopropyl Alcohol			0.690	0.659	0.674	0.625	0.566	0.643	7.61
20) T Methylene Chlo...			0.675	0.478	0.453	0.388	0.365	0.472	26.01
21) T Allyl Chloride			0.729	0.717	0.763	0.734	0.695	0.728	3.40
22) T trans-1,2-Dich...			0.497	0.462	0.488	0.460	0.443	0.470	4.65
23) T Vinyl Acetate			0.710	0.652	0.713	0.690	0.688	0.691	3.54
24) T 1,1-Dichloroet...			1.141	1.056	1.053	0.992	0.939	1.036	7.31
25) T Ethyl Acetate			2.106	2.286	2.408	2.286	2.184	2.254	5.08
26) T Hexane			0.979	0.924	0.974	0.927	0.895	0.940	3.81
27) T Carbon Disulfide			0.865	0.940	1.005	1.108	1.077	0.999	9.93
28) T Methyl tert-Bu...			0.628	0.578	0.604	0.558	0.530	0.579	6.60
29) T Chloroform			1.715	1.573	1.543	1.457	1.402	1.538	7.81
30) T Cyclohexane			0.603	0.670	0.780	0.785	0.785	0.725	11.57
31) T cis-1,2-Dichlo...			0.837	0.885	0.948	0.900	0.892	0.892	4.44
32) T 1,1,1-Trichlor...	1.165	1.138	1.529	1.452	1.479	1.438	1.389	1.370	11.32

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.521	0.437	0.500	0.470	0.456	0.477	7.07
35) T Carbon Tetrach...	0.363	0.395	0.536	0.518	0.555	0.543	0.525	0.491	15.89
36) T Benzene			0.640	0.677	0.746	0.714	0.696	0.694	5.71
37) T 1,2-Dichloroet...			0.409	0.406	0.413	0.399	0.388	0.403	2.48
38) T Trichloroethene	0.347	0.305	0.358	0.357	0.394	0.378	0.364	0.358	7.80
39) T 1,2-Dichloropr...			0.293	0.278	0.297	0.275	0.270	0.283	4.16

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL091624AIR.M										
40) T	1,4-Dioxane			0.111	0.100	0.115	0.114	0.093	0.107	9.00
41) T	Tetrahydrofuran			0.209	0.257	0.272	0.289	0.285	0.262	12.31
42) T	Bromodichlorom...			0.546	0.557	0.572	0.573	0.554	0.561	2.07
43) T	Methyl Methacr...			0.195	0.225	0.261	0.281	0.280	0.249	15.02
44) T	2,2,4-Trimethy...			1.133	1.210	1.304	1.210	1.150	1.202	5.59
45) T	t-1,3-Dichloro...			0.146	0.157	0.194	0.247	0.259	0.200	25.54
46) T	cis-1,3-Dichlo...			0.197	0.256	0.306	0.353	0.355	0.294	22.93
47) T	1,1,2-Trichlor...			0.297	0.303	0.312	0.299	0.290	0.300	2.69
48) T	Dibromochlorom...			0.402	0.428	0.461	0.493	0.487	0.455	8.52
49) T	Bromoform			0.324	0.363	0.401	0.432	0.431	0.390	11.89
50) T	4-Methyl-2-Pen...			0.616	0.697	0.804	0.793	0.771	0.736	10.74
51) T	2-Hexanone			0.419	0.510	0.603	0.631	0.622	0.557	16.33
52) T	Tetrachloroethene	0.218	0.216	0.248	0.268	0.277	0.267	0.266	0.251	9.96
53) T	Toluene			0.526	0.703	0.806	0.834	0.816	0.737	17.42
54) T	1,2-Dibromoethane	0.259		0.370	0.379	0.402	0.407	0.399	0.369	15.11
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.421	0.401	0.406	0.378	0.345	0.390	7.55
57) T	Chlorobenzene			0.793	0.767	0.739	0.685	0.621	0.721	9.51
58) T	Ethyl Benzene			0.838	1.096	1.179	1.173	1.067	1.070	12.97
59) T	m/p-Xylene			0.830	0.974	1.061	0.996	0.904	0.953	9.31
60) T	o-Xylene			0.782	0.931	1.016	0.960	0.878	0.913	9.75
61) T	Styrene			0.247	0.338	0.413	0.468	0.442	0.382	23.54
62) T	Isopropylbenzene			1.282	1.461	1.522	1.394	1.260	1.384	8.14
63) T	1,1,2,2-Tetrac...	0.418	0.394	0.547	0.532	0.510	0.456	0.413	0.467	13.31
64) T	n-propylbenzene			0.308	0.356	0.401	0.375	0.347	0.357	9.56
65) T	tert-Butylbenzene			1.181	1.338	1.433	1.256	1.134	1.269	9.47
66) T	Benzyl Chloride			0.064	0.064	0.065	0.067	0.069	0.066	3.08
67) T	sec-Butylbenzene			1.575	1.882	2.001	1.770	1.572	1.760	10.74
68) S	1-Bromo-4-Fluo...	0.737	0.751	0.749	0.749	0.723	0.744	0.701	0.736	2.47
69) T	p-Isopropyltol...			1.164	1.476	1.677	1.481	1.325	1.425	13.46
70) T	n-Butylbenzene			1.271	1.572	1.732	1.520	1.368	1.492	12.04
71) T	2-Chlorotoluene			0.917	1.047	1.121	1.050	0.957	1.018	8.00
72) T	4-Ethyltoluene			0.850	1.086	1.197	1.154	1.052	1.068	12.57
73) T	1,3,5-Trimethy...			0.790	0.975	1.054	0.988	0.907	0.943	10.63
74) T	1,2,4-Trimethy...			0.986	1.181	1.267	1.095	0.989	1.104	11.09
75) T	1,3-Dichlorobe...			0.676	0.712	0.766	0.680	0.624	0.692	7.56
76) T	1,4-Dichlorobe...			0.598	0.708	0.733	0.661	0.614	0.663	8.77
77) T	1,2-Dichlorobe...			0.687	0.711	0.754	0.658	0.604	0.683	8.25
78) T	Hexachloro-1,3...			0.607	0.621	0.635	0.491	0.461	0.563	14.33
79) T	Naphthalene	0.311		0.570	0.869	1.107	1.031	0.985	0.812	38.05
80) T	Naphthalene,2-...			0.267	0.435	0.613	0.749	0.781	0.569	38.19
81) T	1,2,4-Trichlor...			0.405	0.503	0.607	0.543	0.524	0.516	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041591.D
 Acq On : 16 Sep 2024 12:36
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Sep 17 07:23:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 17 05:12:12 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/17/2024
 Supervised By : Mahesh Dadoda 09/17/2024

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

Internal Standards						
1) Bromochloromethane	5.166	49	1007876	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.626	114	2828824	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2557349	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.751	95	1914464	10.111	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	101189	0.723	ppbv	96
3) Chlorodifluoromethane	2.655	51	71898	0.601	ppbv	99
4) Chloromethane	2.793	50	39035	0.689	ppbv	90
5) Vinyl Chloride	2.896	62	31972	0.554	ppbv	91
6) Bromomethane	3.099	94	16392	0.584	ppbv	99
7) Chloroethane	3.179	64	13318	0.613	ppbv	98
8) Dichlorotetrafluoroethane	2.835	85	89844	0.600	ppbv	95
9) Propene	2.677	41	25238	0.485	ppbv	88
10) Heptane	7.549	43	52953m	0.447	ppbv	
11) Trichlorofluoromethane	3.539	101	87284	0.576	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.041	101	61766	0.562	ppbv	93
13) Ethanol	3.227	45	2374m	0.709	ppbv	
14) Bromoethene	3.343	108	21604	0.511	ppbv #	91
15) Acetone	3.455	43	89461	0.777	ppbv	92
16) 1,3-Butadiene	2.967	39	33974	0.578	ppbv	93
17) tert-Butyl alcohol	3.870	59	54674	0.500	ppbv	95
18) 1,1-Dichloroethene	3.861	96	23326	0.483	ppbv	96
19) Isopropyl Alcohol	3.565	45	34766m	0.560	ppbv	
20) Methylene Chloride	3.909	84	34011	0.768	ppbv	93
21) Allyl Chloride	3.976	41	36721	0.501	ppbv	88
22) trans-1,2-Dichloroethene	4.420	96	25050	0.536	ppbv #	81
23) Vinyl Acetate	4.610	43	35784	0.523	ppbv #	87
24) 1,1-Dichloroethane	4.539	63	57495	0.562	ppbv #	95
25) Ethyl Acetate	5.185	43	106139	0.465	ppbv #	95
26) Hexane	5.189	57	49338	0.535	ppbv	90
27) Carbon Disulfide	4.105	76	43606	0.435	ppbv #	87
28) Methyl tert-Butyl Ether	4.571	73	31629m	0.552	ppbv	
29) Chloroform	5.246	83	86434	0.566	ppbv	97
30) Cyclohexane	6.578	84	30381m	0.419	ppbv	
31) cis-1,2-Dichloroethene	5.053	61	42156	0.473	ppbv	93
32) 1,1,1-Trichloroethane	5.979	97	77056	0.568	ppbv	96
34) 2-Butanone	4.777	43	73717m	0.569	ppbv	
35) Carbon Tetrachloride	6.471	117	75844	0.554	ppbv #	94
36) Benzene	6.346	78	90490	0.465	ppbv #	95
37) 1,2-Dichloroethane	5.783	62	57866	0.511	ppbv #	96
38) Trichloroethene	7.269	130	50656m	0.502	ppbv	
39) 1,2-Dichloropropane	7.044	63	41453m	0.523	ppbv	
40) 1,4-Dioxane	7.304	88	15716m	0.554	ppbv	
41) Tetrahydrofuran	5.558	42	29577	0.397	ppbv	96
42) Bromodichloromethane	7.224	83	77287	0.499	ppbv #	96
43) Methyl Methacrylate	7.452	69	27616	0.393	ppbv	95
44) 2,2,4-Trimethylpentane	7.304	57	160219	0.479	ppbv #	90
45) t-1,3-Dichloropropene	8.690	75	20590m	0.367	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041591.D
 Acq On : 16 Sep 2024 12:36
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 07:23:30 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Sep 17 05:12:12 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	27915	0.331	ppbv	90
47) 1,1,2-Trichloroethane	8.876	97	41983	0.499	ppbv	92
48) Dibromochloromethane	9.687	129	56924m	0.447	ppbv	
49) Bromoform	12.375	173	45890m	0.424	ppbv	
50) 4-Methyl-2-Pentanone	8.176	43	87157m	0.424	ppbv	
51) 2-Hexanone	9.555	43	59285m	0.378	ppbv	
52) Tetrachloroethene	10.587	164	35100m	0.496	ppbv	
53) Toluene	9.192	91	74445	0.355	ppbv	95
54) 1,2-Dibromoethane	9.983	107	52272m	0.509	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.487	131	53872	0.548	ppbv #	1
57) Chlorobenzene	11.503	112	101381m	0.554	ppbv	
58) Ethyl Benzene	12.063	91	107104	0.390	ppbv	94
59) m/p-Xylene	12.349	91	212193m	0.867	ppbv	
60) o-Xylene	13.037	91	99984m	0.428	ppbv	
61) Styrene	12.876	104	31545	0.319	ppbv	94
62) Isopropylbenzene	14.005	105	163927	0.462	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.021	83	69917m	0.592	ppbv	
64) n-propylbenzene	14.899	120	39445m	0.429	ppbv	
65) tert-Butylbenzene	16.066	119	151018m	0.474	ppbv	
66) Benzyl Chloride	16.304	91	8202m	0.484	ppbv	
67) sec-Butylbenzene	16.616	105	201367	0.442	ppbv	99
69) p-Isopropyltoluene	16.973	119	148897	0.407	ppbv	94
70) n-Butylbenzene	17.870	91	162469	0.426	ppbv	98
71) 2-Chlorotoluene	14.780	91	117206m	0.454	ppbv	
72) 4-Ethyltoluene	15.172	105	108676	0.395	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.333	105	100995m	0.423	ppbv	
74) 1,2,4-Trimethylbenzene	16.079	105	126032	0.442	ppbv	95
75) 1,3-Dichlorobenzene	16.307	146	86427	0.491	ppbv	93
76) 1,4-Dichlorobenzene	16.452	146	76460	0.441	ppbv	87
77) 1,2-Dichlorobenzene	17.117	146	87843m	0.507	ppbv	
78) Hexachloro-1,3-Butadiene	22.609	225	77655m	0.537	ppbv	
79) Naphthalene	21.358	128	72907m	0.360	ppbv	
80) Naphthalene,2-methyl-	24.355	142	34080	0.240	ppbv	92
81) 1,2,4-Trichlorobenzene	21.124	180	51734m	0.392	ppbv	

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

Reviewed By :Semsettin Yesilyurt 09/17/2024
Supervised By :Mahesh Dadoda 09/17/2024

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041592.D
 Acq On : 16 Sep 2024 13:15
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 02:35:11 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 02:32:57 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	1153662	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	3191034	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.445	117	3069576m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.751 95 2284732 9.739 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	1512734	7.724	ppbv	100
3) Chlorodifluoromethane	2.652	51	1273490	9.220	ppbv	100
4) Chloromethane	2.790	50	704969	9.499	ppbv	100
5) Vinyl Chloride	2.896	62	676970	9.366	ppbv	100
6) Bromomethane	3.095	94	316373	8.660	ppbv	100
7) Chloroethane	3.172	64	246025	9.802	ppbv	100
8) Dichlorotetrafluoroethane	2.835	85	1640863	9.280	ppbv	100
9) Propene	2.671	41	591499	9.296	ppbv	100
10) Heptane	7.555	43	1465058	10.218	ppbv	100
11) Trichlorofluoromethane	3.539	101	1648291	9.296	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.041	101	1199947	9.385	ppbv	100
13) Ethanol	3.224	45	27404m	5.148	ppbv	
14) Bromoethene	3.343	108	488418	9.820	ppbv	100
15) Acetone	3.443	43	1184767	8.990	ppbv	100
16) 1,3-Butadiene	2.963	39	668292	9.469	ppbv	100
17) tert-Butyl alcohol	3.851	59	1256999	10.440	ppbv	100
18) 1,1-Dichloroethene	3.857	96	549303	10.028	ppbv	100
19) Isopropyl Alcohol	3.552	45	721155	9.470	ppbv	100
20) Methylene Chloride	3.909	84	447422	9.082	ppbv	100
21) Allyl Chloride	3.973	41	846436	9.826	ppbv	100
22) trans-1,2-Dichloroethene	4.420	96	531058	9.732	ppbv	100
23) Vinyl Acetate	4.603	43	796205	8.326	ppbv	100
24) 1,1-Dichloroethane	4.539	63	1144566	9.614	ppbv	100
25) Ethyl Acetate	5.179	43	2636978	9.977	ppbv	100
26) Hexane	5.188	57	1069971	9.824	ppbv	100
27) Carbon Disulfide	4.098	76	1278721	10.141	ppbv	100
28) Methyl tert-Butyl Ether	4.561	73	643194	9.433	ppbv	100
29) Chloroform	5.250	83	1680555	9.485	ppbv	100
30) Cyclohexane	6.577	84	905301	10.235	ppbv	100
31) cis-1,2-Dichloroethene	5.053	61	1038715	9.711	ppbv	100
32) 1,1,1-Trichloroethane	5.979	97	1658808	9.635	ppbv	100
34) 2-Butanone	4.761	43	1501240	9.714	ppbv	100
35) Carbon Tetrachloride	6.471	117	1733798	9.862	ppbv	100
36) Benzene	6.346	78	2276805	9.741	ppbv	100
37) 1,2-Dichloroethane	5.783	62	1272445	9.723	ppbv	100
38) Trichloroethene	7.266	130	1207402	11.030	ppbv	100
39) 1,2-Dichloropropane	7.050	63	877299	9.764	ppbv	100
40) 1,4-Dioxane	7.262	88	362562	10.129	ppbv #	100
41) Tetrahydrofuran	5.532	42	921404	10.354	ppbv	100
42) Bromodichloromethane	7.227	83	1829048	9.717	ppbv	100
43) Methyl Methacrylate	7.449	69	895478	10.728	ppbv	100
44) 2,2,4-Trimethylpentane	7.304	57	3860881	9.842	ppbv	100
45) t-1,3-Dichloropropene	8.687	75	786684	10.580	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041592.D
 Acq On : 16 Sep 2024 13:15
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/17/2024
 Supervised By : Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 02:35:11 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 02:32:57 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	1127288	10.315	ppbv	100
47) 1,1,2-Trichloroethane	8.873	97	952785	9.656	ppbv	100
48) Dibromochloromethane	9.687	129	1573314	9.972	ppbv	100
49) Bromoform	12.384	173	1380117	10.374	ppbv	100
50) 4-Methyl-2-Pentanone	8.156	43	2529791	10.343	ppbv	100
51) 2-Hexanone	9.526	43	2011980	10.956	ppbv	100
52) Tetrachloroethene	10.590	164	852321	9.478	ppbv	100
53) Toluene	9.198	91	2661666	10.235	ppbv	100
54) 1,2-Dibromoethane	9.986	107	1299501	10.010	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.487	131	1161709	9.726	ppbv	100
57) Chlorobenzene	11.503	112	2103559	9.574	ppbv	100
58) Ethyl Benzene	12.066	91	3600157	10.136	ppbv	100
59) m/p-Xylene	12.346	91	6116054m	19.957	ppbv	
60) o-Xylene	13.034	91	2948315	10.140	ppbv	100
61) Styrene	12.873	104	1437066	11.003	ppbv	100
62) Isopropylbenzene	14.005	105	4279685	9.708	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.024	83	1398913	7.881	ppbv	100
64) n-propylbenzene	14.895	120	1149808	9.986	ppbv	100
65) tert-Butylbenzene	16.066	119	3855478	9.686	ppbv	100
66) Benzyl Chloride	16.304	91	205903	8.606	ppbv	100
67) sec-Butylbenzene	16.612	105	5434135	9.884	ppbv	100
69) p-Isopropyltoluene	16.973	119	4544895	9.982	ppbv	100
70) n-Butylbenzene	17.863	91	4664460	9.989	ppbv	100
71) 2-Chlorotoluene	14.776	91	3221836	9.915	ppbv	100
72) 4-Ethyltoluene	15.169	105	3541706	10.382	ppbv	100
73) 1,3,5-Trimethylbenzene	15.326	105	3032119	10.316	ppbv	100
74) 1,2,4-Trimethylbenzene	16.085	105	3360833	9.827	ppbv	100
75) 1,3-Dichlorobenzene	16.307	146	2088291	9.728	ppbv	100
76) 1,4-Dichlorobenzene	16.452	146	2030349	9.776	ppbv	100
77) 1,2-Dichlorobenzene	17.120	146	2019099	9.498	ppbv	100
78) Hexachloro-1,3-Butadiene	22.609	225	1508307	8.351	ppbv	100
79) Naphthalene	21.358	128	3163696	10.692	ppbv	100
80) Naphthalene,2-methyl-	24.352	142	2300402	9.700	ppbv	100
81) 1,2,4-Trichlorobenzene	21.114	180	1667878	9.460	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041593.D
 Acq On : 16 Sep 2024 13:56
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/17/2024
 Supervised By : Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 02:38:44 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 02:32:57 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	1182080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	3244465	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	3052584	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 2207152 9.461 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	309050	1.540	ppbv	97
3) Chlorodifluoromethane	2.652	51	294373	2.080	ppbv	98
4) Chloromethane	2.793	50	160883	2.116	ppbv	95
5) Vinyl Chloride	2.899	62	147802	1.996	ppbv	95
6) Bromomethane	3.095	94	70434	1.882	ppbv	99
7) Chloroethane	3.173	64	51705	2.010	ppbv	98
8) Dichlorotetrafluoroethane	2.835	85	360778	1.991	ppbv	97
9) Propene	2.671	41	127237	1.952	ppbv	92
10) Heptane	7.555	43	297624	2.026	ppbv	98
11) Trichlorofluoromethane	3.539	101	362790	1.997	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.044	101	272276	2.078	ppbv	99
13) Ethanol	3.234	45	10961m	2.010	ppbv	
14) Bromoethene	3.340	108	101050	1.983	ppbv	92
15) Acetone	3.449	43	293207	2.171	ppbv	99
16) 1,3-Butadiene	2.964	39	147142	2.035	ppbv	97
17) tert-Butyl alcohol	3.857	59	277171	2.247	ppbv	99
18) 1,1-Dichloroethene	3.857	96	113969	2.031	ppbv	90
19) Isopropyl Alcohol	3.558	45	159227	2.041	ppbv #	97
20) Methylene Chloride	3.909	84	107110	2.122	ppbv	92
21) Allyl Chloride	3.973	41	180432	2.044	ppbv	99
22) trans-1,2-Dichloroethene	4.420	96	115268	2.062	ppbv	92
23) Vinyl Acetate	4.607	43	168539	1.720	ppbv #	97
24) 1,1-Dichloroethane	4.539	63	249059	2.042	ppbv	99
25) Ethyl Acetate	5.185	43	569204	2.102	ppbv	99
26) Hexane	5.185	57	230270	2.063	ppbv	95
27) Carbon Disulfide	4.102	76	237668	1.840	ppbv	98
28) Methyl tert-Butyl Ether	4.565	73	142865	2.045	ppbv	99
29) Chloroform	5.250	83	364849	2.010	ppbv	91
30) Cyclohexane	6.574	84	184390	2.035	ppbv	95
31) cis-1,2-Dichloroethene	5.054	61	224037	2.044	ppbv	93
32) 1,1,1-Trichloroethane	5.980	97	349584	1.982	ppbv	98
34) 2-Butanone	4.764	43	324173	2.063	ppbv	98
35) Carbon Tetrachloride	6.468	117	360310	2.016	ppbv	99
36) Benzene	6.346	78	483918	2.036	ppbv	98
37) 1,2-Dichloroethane	5.780	62	268163	2.015	ppbv	98
38) Trichloroethene	7.266	130	255796	2.298	ppbv	94
39) 1,2-Dichloropropane	7.050	63	192586	2.108	ppbv	97
40) 1,4-Dioxane	7.272	88	74476	2.046	ppbv #	97
41) Tetrahydrofuran	5.542	42	176742	1.953	ppbv	95
42) Bromodichloromethane	7.224	83	371085	1.939	ppbv	95
43) Methyl Methacrylate	7.452	69	169666	1.999	ppbv	99
44) 2,2,4-Trimethylpentane	7.301	57	846282	2.122	ppbv	99
45) t-1,3-Dichloropropene	8.687	75	125807m	1.664	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041593.D
 Acq On : 16 Sep 2024 13:56
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/17/2024
 Supervised By : Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 02:38:44 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 02:32:57 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.118	75	198614	1.787	ppbv	98
47) 1,1,2-Trichloroethane	8.870	97	202286	2.016	ppbv	95
48) Dibromochloromethane	9.684	129	299312	1.866	ppbv	98
49) Bromoform	12.384	173	259933	1.922	ppbv	98
50) 4-Methyl-2-Pentanone	8.163	43	521882	2.099	ppbv	100
51) 2-Hexanone	9.536	43	391600	2.097	ppbv #	99
52) Tetrachloroethene	10.594	164	179606	1.964	ppbv	97
53) Toluene	9.198	91	523040	1.978	ppbv	99
54) 1,2-Dibromoethane	9.986	107	260693	1.975	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.484	131	247944	2.087	ppbv #	1
57) Chlorobenzene	11.503	112	451222	2.065	ppbv	96
58) Ethyl Benzene	12.066	91	719793	2.038	ppbv	96
59) m/p-Xylene	12.346	91	1294945m	4.249	ppbv	
60) o-Xylene	13.034	91	620587	2.146	ppbv	100
61) Styrene	12.880	104	252259	1.942	ppbv	98
62) Isopropylbenzene	14.005	105	929045	2.119	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.024	83	311063	1.762	ppbv	98
64) n-propylbenzene	14.892	120	244643	2.137	ppbv	93
65) tert-Butylbenzene	16.069	119	874824	2.210	ppbv	99
66) Benzyl Chloride	16.310	91	39929m	1.678	ppbv	
67) sec-Butylbenzene	16.613	105	1221574	2.234	ppbv	99
69) p-Isopropyltoluene	16.973	119	1023815	2.261	ppbv	99
70) n-Butylbenzene	17.863	91	1057176	2.276	ppbv	99
71) 2-Chlorotoluene	14.777	91	684496	2.118	ppbv	99
72) 4-Ethyltoluene	15.172	105	730570	2.153	ppbv	99
73) 1,3,5-Trimethylbenzene	15.330	105	643556	2.202	ppbv	96
74) 1,2,4-Trimethylbenzene	16.082	105	773729	2.275	ppbv	97
75) 1,3-Dichlorobenzene	16.307	146	467558	2.190	ppbv	99
76) 1,4-Dichlorobenzene	16.449	146	447493	2.167	ppbv	98
77) 1,2-Dichlorobenzene	17.121	146	460299	2.177	ppbv	99
78) Hexachloro-1,3-Butadiene	22.606	225	387729	2.159	ppbv	100
79) Naphthalene	21.362	128	675872	2.297	ppbv	97
80) Naphthalene,2-methyl-	24.358	142	374380	1.587	ppbv	99
81) 1,2,4-Trichlorobenzene	21.114	180	370420	2.113	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041594.D
 Acq On : 16 Sep 2024 14:36
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 16 20:15:06 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Mon Sep 16 20:14:05 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.172	49	1163991	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	3218358	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.445	117	2901355	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 2171693 9.726 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.716	85	176543	0.882	ppbv	100
3) Chlorodifluoromethane	2.658	51	143593	1.036	ppbv	99
4) Chloromethane	2.796	50	78805m	1.069	ppbv	
5) Vinyl Chloride	2.906	62	73731	1.015	ppbv	99
6) Bromomethane	3.105	94	32268	0.864	ppbv	86
7) Chloroethane	3.182	64	25889	1.033	ppbv	91
8) Dichlorotetrafluoroethane	2.841	85	179916	1.014	ppbv	91
9) Propene	2.681	41	60205	0.946	ppbv	94
10) Heptane	7.565	43	136494	0.954	ppbv	99
11) Trichlorofluoromethane	3.545	101	190406	1.071	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	135246	1.056	ppbv	98
13) Ethanol	3.246	45	6603m	1.161	ppbv	
14) Bromoethene	3.353	108	48959	0.981	ppbv #	92
15) Acetone	3.462	43	144857	1.095	ppbv	97
16) 1,3-Butadiene	2.970	39	71179	1.007	ppbv	100
17) tert-Butyl alcohol	3.867	59	132423	1.098	ppbv	96
18) 1,1-Dichloroethene	3.861	96	57053	1.042	ppbv	91
19) Isopropyl Alcohol	3.571	45	76655	0.991	ppbv #	95
20) Methylene Chloride	3.915	84	55627	1.128	ppbv	97
21) Allyl Chloride	3.976	41	83509	0.963	ppbv	89
22) trans-1,2-Dichloroethene	4.426	96	53748	0.981	ppbv	96
23) Vinyl Acetate	4.610	43	75873	0.751	ppbv #	93
24) 1,1-Dichloroethane	4.542	63	122972	1.034	ppbv	99
25) Ethyl Acetate	5.192	43	266035	1.013	ppbv	98
26) Hexane	5.195	57	107564	0.987	ppbv	92
27) Carbon Disulfide	4.105	76	109406	0.858	ppbv	96
28) Methyl tert-Butyl Ether	4.574	73	67246	0.978	ppbv	99
29) Chloroform	5.253	83	183121	1.030	ppbv	96
30) Cyclohexane	6.577	84	77992	0.879	ppbv	87
31) cis-1,2-Dichloroethene	5.060	61	103032	0.957	ppbv	98
32) 1,1,1-Trichloroethane	5.979	97	168967	0.976	ppbv	98
34) 2-Butanone	4.774	43	140700	0.904	ppbv	95
35) Carbon Tetrachloride	6.475	117	166616	0.939	ppbv	97
36) Benzene	6.349	78	217922	0.927	ppbv	97
37) 1,2-Dichloroethane	5.787	62	130607	0.992	ppbv	97
38) Trichloroethene	7.269	130	114753	1.065	ppbv	94
39) 1,2-Dichloropropane	7.050	63	89452	0.994	ppbv	92
40) 1,4-Dioxane	7.294	88	32240	0.891	ppbv #	87
41) Tetrahydrofuran	5.552	42	82665m	0.928	ppbv	
42) Bromodichloromethane	7.230	83	179366	0.944	ppbv	99
43) Methyl Methacrylate	7.462	69	72483	0.860	ppbv	93
44) 2,2,4-Trimethylpentane	7.304	57	389526	0.992	ppbv	96
45) t-1,3-Dichloropropene	8.693	75	50543	0.651	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041594.D
 Acq On : 16 Sep 2024 14:36
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 16 20:15:06 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Mon Sep 16 20:14:05 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.118	75	82468	0.736	ppbv	99
47) 1,1,2-Trichloroethane	8.873	97	97460	0.982	ppbv	94
48) Dibromochloromethane	9.687	129	137881	0.862	ppbv	99
49) Bromoform	12.388	173	116706	0.864	ppbv	97
50) 4-Methyl-2-Pentanone	8.172	43	224369	0.913	ppbv	99
51) 2-Hexanone	9.552	43	163976m	0.883	ppbv	
52) Tetrachloroethene	10.593	164	86388	0.951	ppbv	94
53) Toluene	9.198	91	226360	0.864	ppbv	99
54) 1,2-Dibromoethane	9.986	107	121996	0.924	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.487	131	116306	1.034	ppbv #	1
57) Chlorobenzene	11.503	112	222410	1.077	ppbv #	94
58) Ethyl Benzene	12.072	91	318095	0.951	ppbv	97
59) m/p-Xylene	12.346	91	564895m	1.957	ppbv	
60) o-Xylene	13.037	91	270052	0.989	ppbv	100
61) Styrene	12.879	104	98015	0.796	ppbv	97
62) Isopropylbenzene	14.008	105	423939	1.021	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.027	83	154402	0.895	ppbv	99
64) n-propylbenzene	14.895	120	103274	0.952	ppbv	80
65) tert-Butylbenzene	16.072	119	388333	1.036	ppbv	98
66) Benzyl Chloride	16.313	91	18633m	0.775	ppbv	
67) sec-Butylbenzene	16.616	105	546134	1.057	ppbv	99
69) p-Isopropyltoluene	16.976	119	428199	0.999	ppbv	97
70) n-Butylbenzene	17.870	91	456221	1.038	ppbv	96
71) 2-Chlorotoluene	14.780	91	303828	0.992	ppbv	100
72) 4-Ethyltoluene	15.172	105	315109	0.980	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.330	105	282986	1.022	ppbv	97
74) 1,2,4-Trimethylbenzene	16.082	105	342646m	1.064	ppbv	
75) 1,3-Dichlorobenzene	16.307	146	206679	1.021	ppbv	96
76) 1,4-Dichlorobenzene	16.452	146	205278	1.047	ppbv	97
77) 1,2-Dichlorobenzene	17.124	146	206345	1.028	ppbv	96
78) Hexachloro-1,3-Butadiene	22.609	225	180258m	1.053	ppbv	
79) Naphthalene	21.368	128	252197m	0.887	ppbv	
80) Naphthalene,2-methyl-	24.358	142	126259m	0.530	ppbv	
81) 1,2,4-Trichlorobenzene	21.124	180	145946	0.863	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041596.D
 Acq On : 16 Sep 2024 15:56
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 03:12:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 17 02:32:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1150062	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	3120058	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.445	117	2779435	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	2086516	9.823	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	2.915	62	6034m	0.084	ppbv	
32) 1,1,1-Trichloroethane	5.986	97	13088m	0.076	ppbv	
35) Carbon Tetrachloride	6.468	117	12312m	0.072	ppbv	
38) Trichloroethene	7.272	130	9519m	0.089	ppbv	
52) Tetrachloroethene	10.590	164	6744m	0.077	ppbv	
54) 1,2-Dibromoethane	9.979	107	8094m	0.064	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.037	83	10963m	0.068	ppbv	
79) Naphthalene	21.374	128	8646m	0.032	ppbv	

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

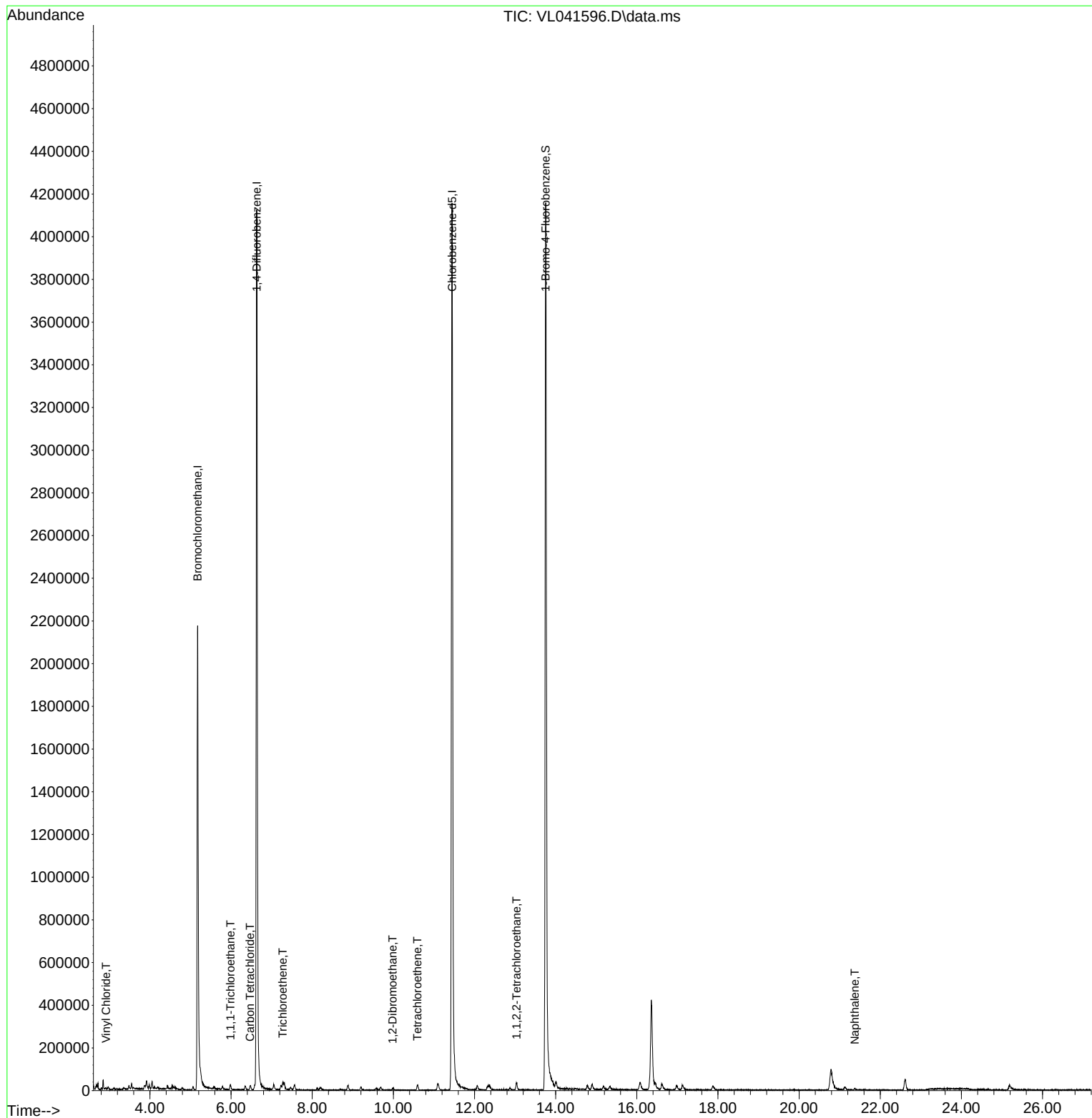
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
Data File : VL041596.D
Acq On : 16 Sep 2024 15:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 03:12:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 17 02:32:57 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041597.D
 Acq On : 16 Sep 2024 16:38
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 05:05:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2
 QLast Update : Tue Sep 17 04:57:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	1115440	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	3030679	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2692276	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1983531	9.951	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	2.906	62	1537m	0.024	ppbv	
32) 1,1,1-Trichloroethane	5.976	97	3900m	0.026	ppbv	
35) Carbon Tetrachloride	6.475	117	3299m	0.023	ppbv	
38) Trichloroethene	7.269	130	3158m	0.029	ppbv	
52) Tetrachloroethene	10.581	164	1981m	0.026	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.040	83	3376m	0.027	ppbv	

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

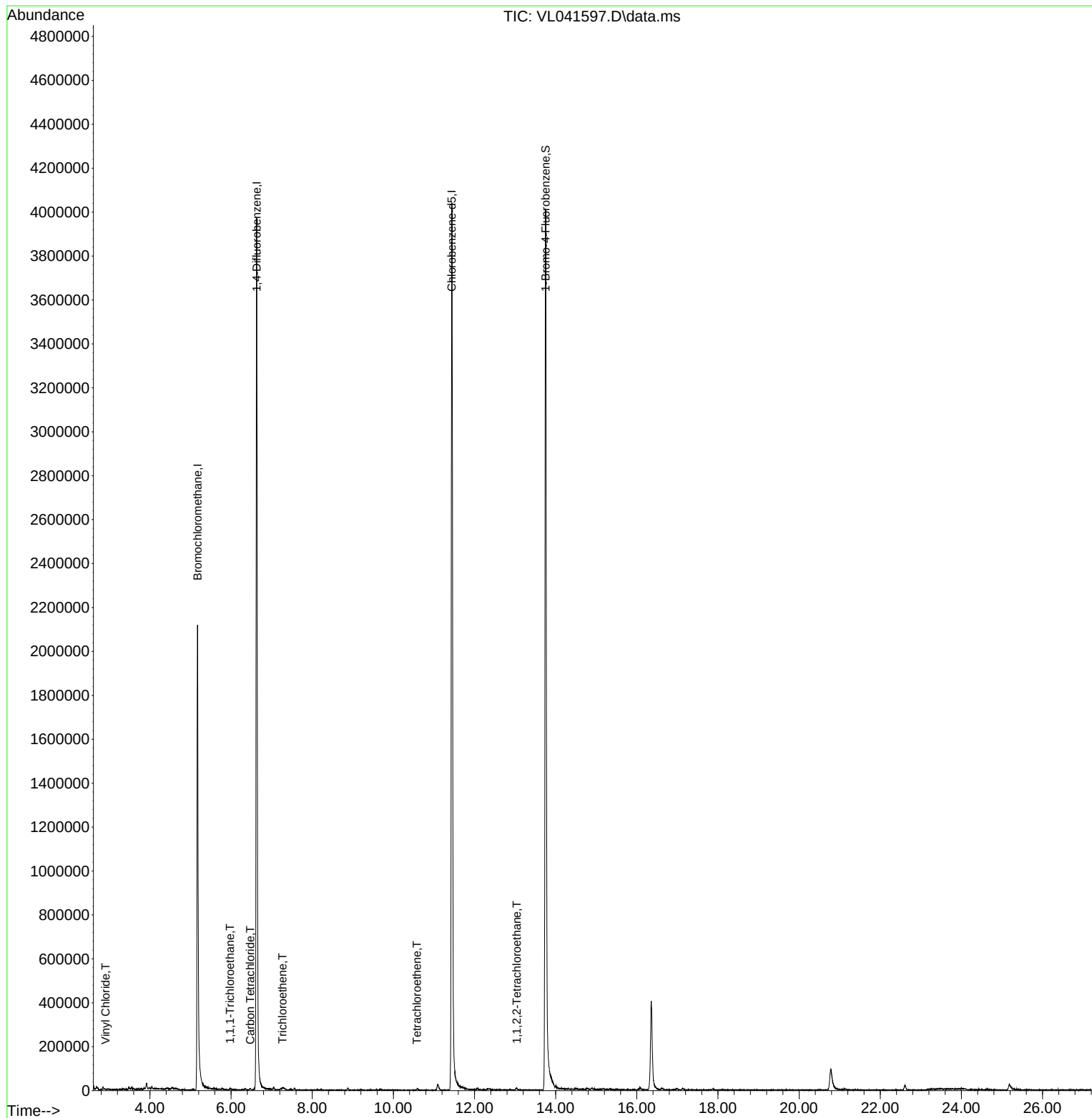
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
Data File : VL041597.D
Acq On : 16 Sep 2024 16:38
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
Supervised By :Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 05:05:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 17 04:57:28 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041598.D
 Acq On : 16 Sep 2024 17:20
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Sep 17 09:14:19 2024
 Quant Title :
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

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

Internal Standards						
1) Bromochloromethane	5.176	49	1175483	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3256634	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	3327610m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.757 95 2332788 9.110 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 91.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.719	85	1900049	9.396	ppbv	100
3) Chlorodifluoromethane	2.664	51	1860879	13.298	ppbv	99
4) Chloromethane	2.803	50	1044613m	14.035	ppbv	
5) Vinyl Chloride	2.909	62	1021949	13.930	ppbv	99
6) Bromomethane	3.105	94	462431	12.264	ppbv	99
7) Chloroethane	3.185	64	360774	14.249	ppbv	98
8) Dichlorotetrafluoroethane	2.845	85	2287936	12.769	ppbv	99
9) Propene	2.684	41	862437	13.416	ppbv	100
10) Heptane	7.561	43	2181339	15.103	ppbv	100
11) Trichlorofluoromethane	3.549	101	2384942	13.280	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	1737916	13.439	ppbv	99
13) Ethanol	3.234	45	32379m	5.636	ppbv	
14) Bromoethene	3.353	108	722975	14.340	ppbv	100
15) Acetone	3.452	43	1746071	13.073	ppbv	99
16) 1,3-Butadiene	2.973	39	997661	13.981	ppbv	99
17) tert-Butyl alcohol	3.861	59	1826662	14.996	ppbv	99
18) 1,1-Dichloroethene	3.864	96	783989	14.172	ppbv	98
19) Isopropyl Alcohol	3.562	45	998621	12.789	ppbv	100
20) Methylene Chloride	3.918	84	642783	12.906	ppbv	93
21) Allyl Chloride	3.979	41	1225956	13.997	ppbv	99
22) trans-1,2-Dichloroethene	4.430	96	781882	14.136	ppbv	99
23) Vinyl Acetate	4.610	43	1212589	11.888	ppbv #	98
24) 1,1-Dichloroethane	4.549	63	1656513	13.792	ppbv	99
25) Ethyl Acetate	5.185	43	3850317	14.511	ppbv	99
26) Hexane	5.195	57	1577948	14.336	ppbv	99
27) Carbon Disulfide	4.108	76	1898447	14.743	ppbv	99
28) Methyl tert-Butyl Ether	4.568	73	934921	13.469	ppbv	100
29) Chloroform	5.259	83	2472134	13.770	ppbv	98
30) Cyclohexane	6.584	84	1384242	15.443	ppbv	96
31) cis-1,2-Dichloroethene	5.063	61	1572482	14.462	ppbv	99
32) 1,1,1-Trichloroethane	5.986	97	2449235	14.015	ppbv	99
34) 2-Butanone	4.767	43	2226315	14.132	ppbv	99
35) Carbon Tetrachloride	6.478	117	2562607	14.267	ppbv	99
36) Benzene	6.352	78	3400759	14.291	ppbv	98
37) 1,2-Dichloroethane	5.790	62	1894411	14.224	ppbv	99
38) Trichloroethene	7.272	130	1777141	16.301	ppbv	97
39) 1,2-Dichloropropane	7.057	63	1318620	14.474	ppbv	99
40) 1,4-Dioxane	7.266	88	453503	12.392	ppbv #	47
41) Tetrahydrofuran	5.536	42	1391996	15.449	ppbv	100
42) Bromodichloromethane	7.233	83	2707351	14.078	ppbv	97
43) Methyl Methacrylate	7.455	69	1368120	16.033	ppbv	98
44) 2,2,4-Trimethylpentane	7.307	57	5619291	14.138	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	1264444	16.099	ppbv	100
46) cis-1,3-Dichloropropene	8.124	75	1733083	15.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041598.D
 Acq On : 16 Sep 2024 17:20
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Sep 17 09:14:19 2024
 Quant Title :
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/17/2024
 Supervised By :Mahesh Dadoda 09/17/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	8.880	97	1416240	14.103	ppbv	97
48) Dibromochloromethane	9.693	129	2380715	14.716	ppbv	99
49) Bromoform	12.388	173	2103505	15.393	ppbv	100
50) 4-Methyl-2-Pentanone	8.159	43	3768387	15.162	ppbv	99
51) 2-Hexanone	9.529	43	3039864	16.175	ppbv	98
52) Tetrachloroethene	10.597	164	1298509	14.122	ppbv	99
53) Toluene	9.204	91	3987119	15.042	ppbv	99
54) 1,2-Dibromoethane	9.989	107	1951435	14.599	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.490	131	1724113	13.360	ppbv #	92
57) Chlorobenzene	11.507	112	3100633	13.087	ppbv	98
58) Ethyl Benzene	12.069	91	5323752	13.880	ppbv	100
59) m/p-Xylene	12.352	91	9021854m	27.249	ppbv	
60) o-Xylene	13.037	91	4380559	13.986	ppbv	99
61) Styrene	12.879	104	2207148	15.620	ppbv	100
62) Isopropylbenzene	14.011	105	6290796	13.212	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.027	83	2059305	10.412	ppbv	99
64) n-propylbenzene	14.899	120	1733510	13.926	ppbv	94
65) tert-Butylbenzene	16.072	119	5661694	13.165	ppbv	99
66) Benzyl Chloride	16.304	91	343877	12.466	ppbv	97
67) sec-Butylbenzene	16.616	105	7844186	13.238	ppbv	98
69) p-Isopropyltoluene	16.976	119	6613794	13.451	ppbv	99
70) n-Butylbenzene	17.863	91	6825900	13.542	ppbv	99
71) 2-Chlorotoluene	14.780	91	4774971	13.599	ppbv	99
72) 4-Ethyltoluene	15.172	105	5251979	14.243	ppbv	98
73) 1,3,5-Trimethylbenzene	15.330	105	4527850	14.254	ppbv	98
74) 1,2,4-Trimethylbenzene	16.088	105	4937113	13.368	ppbv	98
75) 1,3-Dichlorobenzene	16.313	146	3113298	13.410	ppbv	99
76) 1,4-Dichlorobenzene	16.455	146	3063921	13.630	ppbv	99
77) 1,2-Dichlorobenzene	17.120	146	3015374	13.102	ppbv	100
78) Hexachloro-1,3-Butadiene	22.609	225	2302119	11.730	ppbv	99
79) Naphthalene	21.358	128	4916804	15.084	ppbv	99
80) Naphthalene,2-methyl-	24.355	142	3899900	14.273	ppbv	99
81) 1,2,4-Trichlorobenzene	21.117	180	2616194	13.487	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041599.D
 Acq On : 16 Sep 2024 18:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL091624

Quant Time: Sep 17 09:18:19 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 09/17/2024
 Supervised By : Mahesh Dadoda 09/17/2024

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

Internal Standards						
1) Bromochloromethane	5.176	49	1211658	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	3308799	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	3161469m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.751 95 2308391 9.919 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.723	85	1544917	8.829	ppbv	99
3) Chlorodifluoromethane	2.668	51	1323860	9.008	ppbv	99
4) Chloromethane	2.806	50	724772	8.966	ppbv	95
5) Vinyl Chloride	2.912	62	707659	10.111	ppbv	99
6) Bromomethane	3.108	94	319232	9.168	ppbv	99
7) Chloroethane	3.189	64	251821	9.251	ppbv	99
8) Dichlorotetrafluoroethane	2.848	85	1641100	8.941	ppbv	98
9) Propene	2.687	41	640849	10.338	ppbv	100
10) Heptane	7.565	43	1512434	10.420	ppbv	100
11) Trichlorofluoromethane	3.552	101	1652570	8.875	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.054	101	1197204	8.877	ppbv	99
13) Ethanol	3.240	45	22445m	4.816	ppbv	
14) Bromoethene	3.356	108	497665	9.732	ppbv	98
15) Acetone	3.456	43	1235854	8.124	ppbv	99
16) 1,3-Butadiene	2.977	39	708349	9.574	ppbv	99
17) tert-Butyl alcohol	3.864	59	1338127	10.002	ppbv	100
18) 1,1-Dichloroethene	3.867	96	531734	9.314	ppbv	99
19) Isopropyl Alcohol	3.562	45	679011	8.720	ppbv	99
20) Methylene Chloride	3.919	84	447442	7.830	ppbv	95
21) Allyl Chloride	3.983	41	870229	9.870	ppbv	100
22) trans-1,2-Dichloroethene	4.433	96	544525	9.561	ppbv	99
23) Vinyl Acetate	4.610	43	879864	10.516	ppbv #	97
24) 1,1-Dichloroethane	4.549	63	1155920	9.204	ppbv	99
25) Ethyl Acetate	5.189	43	2756002	10.092	ppbv	99
26) Hexane	5.195	57	1129442	9.917	ppbv	99
27) Carbon Disulfide	4.112	76	1301729	10.753	ppbv	99
28) Methyl tert-Butyl Ether	4.571	73	708243	10.087	ppbv	99
29) Chloroform	5.259	83	1692873	9.084	ppbv	100
30) Cyclohexane	6.587	84	939832	10.706	ppbv	98
31) cis-1,2-Dichloroethene	5.063	61	1109424	10.261	ppbv	98
32) 1,1,1-Trichloroethane	5.986	97	1671780	10.071	ppbv	99
34) 2-Butanone	4.771	43	1595025	10.110	ppbv	99
35) Carbon Tetrachloride	6.475	117	1729977	10.656	ppbv	98
36) Benzene	6.353	78	2377400	10.346	ppbv	100
37) 1,2-Dichloroethane	5.790	62	1303965	9.780	ppbv	99
38) Trichloroethene	7.272	130	1220709	10.316	ppbv	99
39) 1,2-Dichloropropane	7.057	63	924715	9.892	ppbv	97
40) 1,4-Dioxane	7.269	88	268441m	7.618	ppbv	
41) Tetrahydrofuran	5.539	42	998000	11.494	ppbv	100
42) Bromodichloromethane	7.230	83	1853470	9.992	ppbv	99
43) Methyl Methacrylate	7.455	69	952193	11.579	ppbv	98
44) 2,2,4-Trimethylpentane	7.308	57	3942109	9.916	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	854719	12.892	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041599.D
 Acq On : 16 Sep 2024 18:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091624

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/17/2024
 Supervised By : Mahesh Dadoda 09/17/2024

Quant Time: Sep 17 09:18:19 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.124	75	1179959	12.148	ppbv	98
47) 1,1,2-Trichloroethane	8.880	97	965904	9.731	ppbv	97
48) Dibromochloromethane	9.690	129	1596069	10.613	ppbv	100
49) Bromoform	12.388	173	1398574	10.834	ppbv	99
50) 4-Methyl-2-Pentanone	8.163	43	2618515	10.747	ppbv	99
51) 2-Hexanone	9.529	43	2107044	11.433	ppbv #	99
52) Tetrachloroethene	10.594	164	876069	10.529	ppbv	97
53) Toluene	9.201	91	2736931	11.220	ppbv	100
54) 1,2-Dibromoethane	9.989	107	1334237	10.916	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.487	131	1153971	9.349	ppbv	100
57) Chlorobenzene	11.507	112	2110664	9.260	ppbv	98
58) Ethyl Benzene	12.066	91	3636857	10.746	ppbv	100
59) m/p-Xylene	12.352	91	6119550m	20.317	ppbv	
60) o-Xylene	13.034	91	2941243	10.185	ppbv	99
61) Styrene	12.873	104	1461911	12.117	ppbv	100
62) Isopropylbenzene	14.008	105	4273531	9.768	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.028	83	1389186	9.409	ppbv	99
64) n-propylbenzene	14.896	120	1144513	10.129	ppbv	99
65) tert-Butylbenzene	16.069	119	3822907	9.532	ppbv	99
66) Benzyl Chloride	16.304	91	212798	10.206	ppbv	100
67) sec-Butylbenzene	16.613	105	5350490	9.616	ppbv	100
69) p-Isopropyltoluene	16.973	119	4497521	9.986	ppbv	100
70) n-Butylbenzene	17.863	91	4595438	9.740	ppbv	100
71) 2-Chlorotoluene	14.780	91	3223465	10.013	ppbv	100
72) 4-Ethyltoluene	15.169	105	3524544	10.441	ppbv	99
73) 1,3,5-Trimethylbenzene	15.327	105	3014196	10.112	ppbv	98
74) 1,2,4-Trimethylbenzene	16.085	105	3320425	9.517	ppbv	99
75) 1,3-Dichlorobenzene	16.307	146	2073354	9.482	ppbv	100
76) 1,4-Dichlorobenzene	16.452	146	2027061	9.675	ppbv	99
77) 1,2-Dichlorobenzene	17.117	146	1996843	9.250	ppbv	100
78) Hexachloro-1,3-Butadiene	22.612	225	1507968m	8.468	ppbv	
79) Naphthalene	21.355	128	3203623	12.476	ppbv	98
80) Naphthalene,2-methyl-	24.349	142	2446937	13.599	ppbv	99
81) 1,2,4-Trichlorobenzene	21.114	180	1671079	10.236	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041599.D
 Acq On : 16 Sep 2024 18:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091624

Quant Time: Sep 17 09:18:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 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	105	0.00
2 T	Dichlorodifluoromethane	1.444	1.275	11.7	102	0.01
3	Chlorodifluoromethane	1.213	1.093	9.9	104	0.02
4	Chloromethane	0.667	0.598	10.3	103	0.02
5 T	Vinyl Chloride	0.578	0.584	-1.0	105	0.02
6 T	Bromomethane	0.287	0.263	8.4	101	0.01
7	Chloroethane	0.225	0.208	7.6	102	0.02
8 T	Dichlorotetrafluoroethane	1.515	1.354	10.6	100	0.01
9 T	Propene	0.512	0.529	-3.3	108	0.02
10 T	Heptane	1.198	1.248	-4.2	103	0.00
11 T	Trichlorofluoromethane	1.537	1.364	11.3	100	0.01
12 T	1,1,2-Trichlorotrifluoroeth	1.113	0.988	11.2	100	0.01
13	Ethanol	0.038	0.019#	50.0#	82	0.02
14 T	Bromoethene	0.422	0.411	2.6	102	0.01
15 T	Acetone	1.255	1.020	18.7	104	0.01
16 T	1,3-Butadiene	0.611	0.585	4.3	106	0.01
17	tert-Butyl alcohol	1.104	1.104	0.0	106	0.01
18 T	1,1-Dichloroethene	0.471	0.439	6.8	97	0.00
19 T	Isopropyl Alcohol	0.643	0.560	12.9	94	0.00
20 T	Methylene Chloride	0.472	0.369	21.8	100	0.00
21 T	Allyl Chloride	0.728	0.718	1.4	103	0.00
22 T	trans-1,2-Dichloroethene	0.470	0.449	4.5	103	0.01
23 T	Vinyl Acetate	0.691	0.726	-5.1	111	0.00
24 T	1,1-Dichloroethane	1.036	0.954	7.9	101	0.00
25 T	Ethyl Acetate	2.254	2.275	-0.9	105	0.00
26 T	Hexane	0.940	0.932	0.9	106	0.00
27 T	Carbon Disulfide	0.999	1.074	-7.5	102	0.01
28 T	Methyl tert-Butyl Ether	0.579	0.585	-1.0	110	0.00
29 T	Chloroform	1.538	1.397	9.2	101	0.00
30 T	Cyclohexane	0.725	0.776	-7.0	104	0.00
31 T	cis-1,2-Dichloroethene	0.892	0.916	-2.7	107	0.00
32 T	1,1,1-Trichloroethane	1.370	1.380	-0.7	101	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
34 T	2-Butanone	0.477	0.482	-1.0	106	0.00
35 T	Carbon Tetrachloride	0.491	0.523	-6.5	100	0.00
36 T	Benzene	0.694	0.719	-3.6	104	0.00
37 T	1,2-Dichloroethane	0.403	0.394	2.2	102	0.00
38 T	Trichloroethene	0.358	0.369	-3.1	101	0.00
39 T	1,2-Dichloropropane	0.283	0.279	1.4	105	0.00
40 T	1,4-Dioxane	0.107	0.081	24.3	74	0.00
41 T	Tetrahydrofuran	0.262	0.302	-15.3	108	0.00
42 T	Bromodichloromethane	0.561	0.560	0.2	101	0.00
43	Methyl Methacrylate	0.249	0.288	-15.7	106	0.00
44 T	2,2,4-Trimethylpentane	1.202	1.191	0.9	102	0.00
45 T	t-1,3-Dichloropropene	0.200	0.258	-29.0	109	0.00
46 T	cis-1,3-Dichloropropene	0.294	0.357	-21.4	105	0.00
47 T	1,1,2-Trichloroethane	0.300	0.292	2.7	101	0.00
48 T	Dibromochloromethane	0.455	0.482	-5.9	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091624\
 Data File : VL041599.D
 Acq On : 16 Sep 2024 18:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091624

Quant Time: Sep 17 09:18:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 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	0.390	0.423	-8.5	101	0.00
50 T	4-Methyl-2-Pentanone	0.736	0.791	-7.5	104	0.00
51 T	2-Hexanone	0.557	0.637	-14.4	105	0.00
52 T	Tetrachloroethene	0.251	0.265	-5.6	103	0.00
53 T	Toluene	0.737	0.827	-12.2	103	0.00
54 T	1,2-Dibromoethane	0.369	0.403	-9.2	103	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
56	1,1,1,2-Tetrachloroethane	0.390	0.365	6.4	99	0.00
57 T	Chlorobenzene	0.721	0.668	7.4	100	0.00
58 T	Ethyl Benzene	1.070	1.150	-7.5	101	0.00
59 T	m/p-Xylene	0.953	0.968	-1.6	100	0.00
60 T	o-Xylene	0.913	0.930	-1.9	100	0.00
61 T	Styrene	0.382	0.462	-20.9	102	0.00
62	Isopropylbenzene	1.384	1.352	2.3	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.467	0.439	6.0	99	0.00
64	n-propylbenzene	0.357	0.362	-1.4	100	0.00
65	tert-Butylbenzene	1.269	1.209	4.7	99	0.00
66 T	Benzyl Chloride	0.066	0.067	-1.5	103	0.00
67	sec-Butylbenzene	1.760	1.692	3.9	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.736	0.730	0.8	101	0.00
69	p-Isopropyltoluene	1.425	1.423	0.1	99	0.00
70	n-Butylbenzene	1.492	1.454	2.5	99	0.00
71	2-Chlorotoluene	1.018	1.020	-0.2	100	0.00
72 T	4-Ethyltoluene	1.068	1.115	-4.4	100	0.00
73 T	1,3,5-Trimethylbenzene	0.943	0.953	-1.1	99	0.00
74 T	1,2,4-Trimethylbenzene	1.104	1.050	4.9	99	0.00
75 T	1,3-Dichlorobenzene	0.692	0.656	5.2	99	0.00
76 T	1,4-Dichlorobenzene	0.663	0.641	3.3	100	0.00
77 T	1,2-Dichlorobenzene	0.683	0.632	7.5	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.563	0.477	15.3	100	0.00
79 T	Naphthalene	0.812	1.013	-24.8	101	0.00
80 T	Naphthalene,2-methyl-	0.569	0.774	-36.0#	106	0.00
81 T	1,2,4-Trichlorobenzene	0.516	0.529	-2.5	100	0.00

(#) = Out of Range

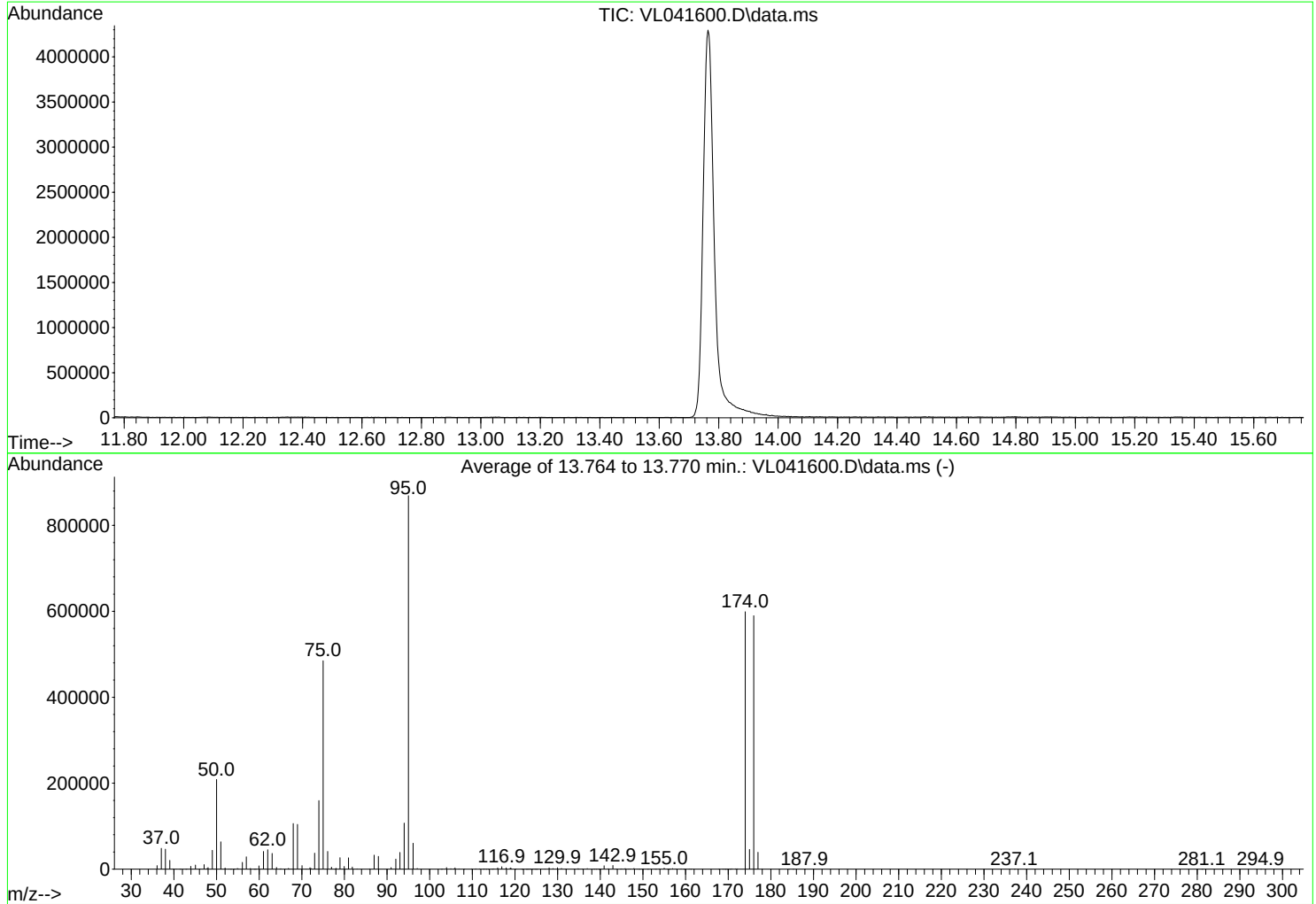
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
Data File : VL041600.D
Acq On : 18 Sep 2024 8:06
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\VL091624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 17 09:12:21 2024



AutoFind: Scans 3471, 3472, 3473; Background Corrected with Scan 3447

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.0	208555	PASS
75	95	30	66	55.8	485056	PASS
95	95	100	100	100.0	869077	PASS
96	95	5	9	7.0	60467	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.9	599040	PASS
175	174	4	9	7.6	45741	PASS
176	174	93	101	98.5	589888	PASS
177	176	5	9	6.7	39323	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041601.D
 Acq On : 18 Sep 2024 8:46
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 01:28:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1176243	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.645	114	3208665	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.458	117	3110660	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.767 95 2275993 9.939 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	1344207	7.913	ppbv	99
3) Chlorodifluoromethane	2.671	51	1296141	9.085	ppbv	99
4) Chloromethane	2.809	50	708455	9.028	ppbv	97
5) Vinyl Chloride	2.915	62	705961	10.390	ppbv	98
6) Bromomethane	3.115	94	311784	9.223	ppbv	97
7) Chloroethane	3.192	64	251005	9.499	ppbv	98
8) Dichlorotetrafluoroethane	2.851	85	1646174	9.238	ppbv	100
9) Propene	2.690	41	612014	10.170	ppbv	98
10) Heptane	7.571	43	1478682	10.495	ppbv	100
11) Trichlorofluoromethane	3.555	101	1639385	9.069	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.060	101	1214036	9.273	ppbv	100
13) Ethanol	3.243	45	26533m	5.865	ppbv	
14) Bromoethene	3.359	108	499377	10.060	ppbv	100
15) Acetone	3.462	43	1208787	8.186	ppbv	100
16) 1,3-Butadiene	2.980	39	673454	9.376	ppbv	98
17) tert-Butyl alcohol	3.870	59	1261877	9.716	ppbv	100
18) 1,1-Dichloroethene	3.873	96	530425	9.571	ppbv	97
19) Isopropyl Alcohol	3.568	45	715591	9.466	ppbv #	98
20) Methylene Chloride	3.925	84	450417	8.119	ppbv	91
21) Allyl Chloride	3.989	41	858301	10.028	ppbv	100
22) trans-1,2-Dichloroethene	4.436	96	534697	9.671	ppbv	98
23) Vinyl Acetate	4.619	43	863997	10.637	ppbv	99
24) 1,1-Dichloroethane	4.555	63	1158084	9.499	ppbv	100
25) Ethyl Acetate	5.198	43	2686598	10.134	ppbv	100
26) Hexane	5.205	57	1094009	9.896	ppbv	99
27) Carbon Disulfide	4.118	76	1309474	11.142	ppbv	99
28) Methyl tert-Butyl Ether	4.578	73	673643	9.883	ppbv	98
29) Chloroform	5.266	83	1702540	9.411	ppbv	99
30) Cyclohexane	6.594	84	911409	10.695	ppbv	98
31) cis-1,2-Dichloroethene	5.073	61	1082135	10.310	ppbv	100
32) 1,1,1-Trichloroethane	5.996	97	1681151	10.433	ppbv	99
34) 2-Butanone	4.780	43	1525364	9.970	ppbv	99
35) Carbon Tetrachloride	6.484	117	1762225	11.193	ppbv	97
36) Benzene	6.362	78	2328102	10.448	ppbv	99
37) 1,2-Dichloroethane	5.799	62	1282907	9.922	ppbv	100
38) Trichloroethene	7.285	130	1247903	10.874	ppbv	99
39) 1,2-Dichloropropane	7.063	63	902201	9.952	ppbv	98
40) 1,4-Dioxane	7.278	88	375300	10.982	ppbv #	97
41) Tetrahydrofuran	5.549	42	940519	11.170	ppbv	99
42) Bromodichloromethane	7.240	83	1854610	10.310	ppbv	100
43) Methyl Methacrylate	7.465	69	916154	11.489	ppbv	99
44) 2,2,4-Trimethylpentane	7.320	57	3916909	10.160	ppbv	100
45) t-1,3-Dichloropropene	8.700	75	816302	12.697	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041601.D
 Acq On : 18 Sep 2024 8:46
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2024
 Supervised By : Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 01:28:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	1139357	12.096	ppbv	97
47) 1,1,2-Trichloroethane	8.893	97	973665	10.116	ppbv	99
48) Dibromochloromethane	9.703	129	1597346	10.953	ppbv	99
49) Bromoform	12.400	173	1390368	11.106	ppbv	100
50) 4-Methyl-2-Pentanone	8.172	43	2573409	10.892	ppbv	100
51) 2-Hexanone	9.542	43	2058868	11.520	ppbv	100
52) Tetrachloroethene	10.606	164	868142	10.759	ppbv	98
53) Toluene	9.214	91	2687707	11.362	ppbv	99
54) 1,2-Dibromoethane	10.002	107	1304646	11.007	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.500	131	1174008	9.667	ppbv	98
57) Chlorobenzene	11.519	112	2106729	9.393	ppbv	99
58) Ethyl Benzene	12.079	91	3644079	10.943	ppbv	98
59) m/p-Xylene	12.365	91	6150817m	20.754	ppbv	
60) o-Xylene	13.050	91	2949502	10.380	ppbv	99
61) Styrene	12.889	104	1446412	12.185	ppbv	100
62) Isopropylbenzene	14.018	105	4295725	9.979	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.037	83	1399331	9.632	ppbv	99
64) n-propylbenzene	14.908	120	1163729	10.467	ppbv	99
65) tert-Butylbenzene	16.082	119	3881352	9.836	ppbv	99
66) Benzyl Chloride	16.317	91	210631	10.268	ppbv	100
67) sec-Butylbenzene	16.629	105	5423308	9.906	ppbv	100
69) p-Isopropyltoluene	16.985	119	4552021	10.272	ppbv	99
70) n-Butylbenzene	17.876	91	4680037	10.082	ppbv	99
71) 2-Chlorotoluene	14.789	91	3243345	10.240	ppbv	99
72) 4-Ethyltoluene	15.182	105	3543918	10.670	ppbv	100
73) 1,3,5-Trimethylbenzene	15.342	105	3032687	10.340	ppbv	97
74) 1,2,4-Trimethylbenzene	16.098	105	3382442	9.853	ppbv	99
75) 1,3-Dichlorobenzene	16.320	146	2085381	9.693	ppbv	100
76) 1,4-Dichlorobenzene	16.465	146	2059008	9.987	ppbv	99
77) 1,2-Dichlorobenzene	17.133	146	2033227	9.573	ppbv	99
78) Hexachloro-1,3-Butadiene	22.619	225	1515419	8.649	ppbv	100
79) Naphthalene	21.371	128	3186137	12.611	ppbv	99
80) Naphthalene,2-methyl-	24.361	142	2359812	13.329	ppbv	99
81) 1,2,4-Trichlorobenzene	21.127	180	1691433	10.530	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041601.D
 Acq On : 18 Sep 2024 8:46
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:28:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.02
2 T	Dichlorodifluoromethane	1.444	1.143	20.8	89	0.02
3	Chlorodifluoromethane	1.213	1.102	9.2	102	0.02
4	Chloromethane	0.667	0.602	9.7	100	0.02
5 T	Vinyl Chloride	0.578	0.600	-3.8	104	0.02
6 T	Bromomethane	0.287	0.265	7.7	99	0.02
7	Chloroethane	0.225	0.213	5.3	102	0.02
8 T	Dichlorotetrafluoroethane	1.515	1.400	7.6	100	0.02
9 T	Propene	0.512	0.520	-1.6	103	0.02
10 T	Heptane	1.198	1.257	-4.9	101	0.02
11 T	Trichlorofluoromethane	1.537	1.394	9.3	99	0.02
12 T	1,1,2-Trichlorotrifluoroeth	1.113	1.032	7.3	101	0.02
13	Ethanol	0.038	0.023#	39.5#	97	0.02
14 T	Bromoethene	0.422	0.425	-0.7	102	0.02
15 T	Acetone	1.255	1.028	18.1	102	0.02
16 T	1,3-Butadiene	0.611	0.573	6.2	101	0.02
17	tert-Butyl alcohol	1.104	1.073	2.8	100	0.02
18 T	1,1-Dichloroethene	0.471	0.451	4.2	97	0.02
19 T	Isopropyl Alcohol	0.643	0.608	5.4	99	0.02
20 T	Methylene Chloride	0.472	0.383	18.9	101	0.02
21 T	Allyl Chloride	0.728	0.730	-0.3	101	0.02
22 T	trans-1,2-Dichloroethene	0.470	0.455	3.2	101	0.02
23 T	Vinyl Acetate	0.691	0.735	-6.4	109	0.02
24 T	1,1-Dichloroethane	1.036	0.985	4.9	101	0.02
25 T	Ethyl Acetate	2.254	2.284	-1.3	102	0.02
26 T	Hexane	0.940	0.930	1.1	102	0.02
27 T	Carbon Disulfide	0.999	1.113	-11.4	102	0.02
28 T	Methyl tert-Butyl Ether	0.579	0.573	1.0	105	0.02
29 T	Chloroform	1.538	1.447	5.9	101	0.02
30 T	Cyclohexane	0.725	0.775	-6.9	101	0.02
31 T	cis-1,2-Dichloroethene	0.892	0.920	-3.1	104	0.02
32 T	1,1,1-Trichloroethane	1.370	1.429	-4.3	101	0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.02
34 T	2-Butanone	0.477	0.475	0.4	102	0.02
35 T	Carbon Tetrachloride	0.491	0.549	-11.8	102	0.01
36 T	Benzene	0.694	0.726	-4.6	102	0.02
37 T	1,2-Dichloroethane	0.403	0.400	0.7	101	0.02
38 T	Trichloroethene	0.358	0.389	-8.7	103	0.02
39 T	1,2-Dichloropropane	0.283	0.281	0.7	103	0.01
40 T	1,4-Dioxane	0.107	0.117	-9.3	104	0.02
41 T	Tetrahydrofuran	0.262	0.293	-11.8	102	0.02
42 T	Bromodichloromethane	0.561	0.578	-3.0	101	0.01
43	Methyl Methacrylate	0.249	0.286	-14.9	102	0.02
44 T	2,2,4-Trimethylpentane	1.202	1.221	-1.6	101	0.02
45 T	t-1,3-Dichloropropene	0.200	0.254	-27.0	104	0.01
46 T	cis-1,3-Dichloropropene	0.294	0.355	-20.7	101	0.02
47 T	1,1,2-Trichloroethane	0.300	0.303	-1.0	102	0.02
48 T	Dibromochloromethane	0.455	0.498	-9.5	102	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041601.D
 Acq On : 18 Sep 2024 8:46
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:28:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 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	0.390	0.433	-11.0	101	0.02
50 T	4-Methyl-2-Pentanone	0.736	0.802	-9.0	102	0.02
51 T	2-Hexanone	0.557	0.642	-15.3	102	0.02
52 T	Tetrachloroethene	0.251	0.271	-8.0	102	0.02
53 T	Toluene	0.737	0.838	-13.7	101	0.02
54 T	1,2-Dibromoethane	0.369	0.407	-10.3	100	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.01
56	1,1,1,2-Tetrachloroethane	0.390	0.377	3.3	101	0.01
57 T	Chlorobenzene	0.721	0.677	6.1	100	0.02
58 T	Ethyl Benzene	1.070	1.171	-9.4	101	0.01
59 T	m/p-Xylene	0.953	0.989	-3.8	101	0.02
60 T	o-Xylene	0.913	0.948	-3.8	100	0.02
61 T	Styrene	0.382	0.465	-21.7	101	0.02
62	Isopropylbenzene	1.384	1.381	0.2	100	0.01
63 T	1,1,2,2-Tetrachloroethane	0.467	0.450	3.6	100	0.01
64	n-propylbenzene	0.357	0.374	-4.8	101	0.01
65	tert-Butylbenzene	1.269	1.248	1.7	101	0.02
66 T	Benzyl Chloride	0.066	0.068	-3.0	102	0.01
67	sec-Butylbenzene	1.760	1.743	1.0	100	0.02
68 S	1-Bromo-4-Fluorobenzene	0.736	0.732	0.5	100	0.02
69	p-Isopropyltoluene	1.425	1.463	-2.7	100	0.01
70	n-Butylbenzene	1.492	1.505	-0.9	100	0.01
71	2-Chlorotoluene	1.018	1.043	-2.5	101	0.01
72 T	4-Ethyltoluene	1.068	1.139	-6.6	100	0.01
73 T	1,3,5-Trimethylbenzene	0.943	0.975	-3.4	100	0.02
74 T	1,2,4-Trimethylbenzene	1.104	1.087	1.5	101	0.01
75 T	1,3-Dichlorobenzene	0.692	0.670	3.2	100	0.01
76 T	1,4-Dichlorobenzene	0.663	0.662	0.2	101	0.01
77 T	1,2-Dichlorobenzene	0.683	0.654	4.2	101	0.01
78 T	Hexachloro-1,3-Butadiene	0.563	0.487	13.5	100	0.00
79 T	Naphthalene	0.812	1.024	-26.1	101	0.01
80 T	Naphthalene,2-methyl-	0.569	0.759	-33.4#	103	0.00
81 T	1,2,4-Trichlorobenzene	0.516	0.544	-5.4	101	0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041602.D
 Acq On : 18 Sep 2024 9:36
 Operator : SY/MD
 Sample : VL0918ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABL01

Quant Time: Sep 19 01:29:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1177899	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.645	114	3241896	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2826139	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.761	95	2076380	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

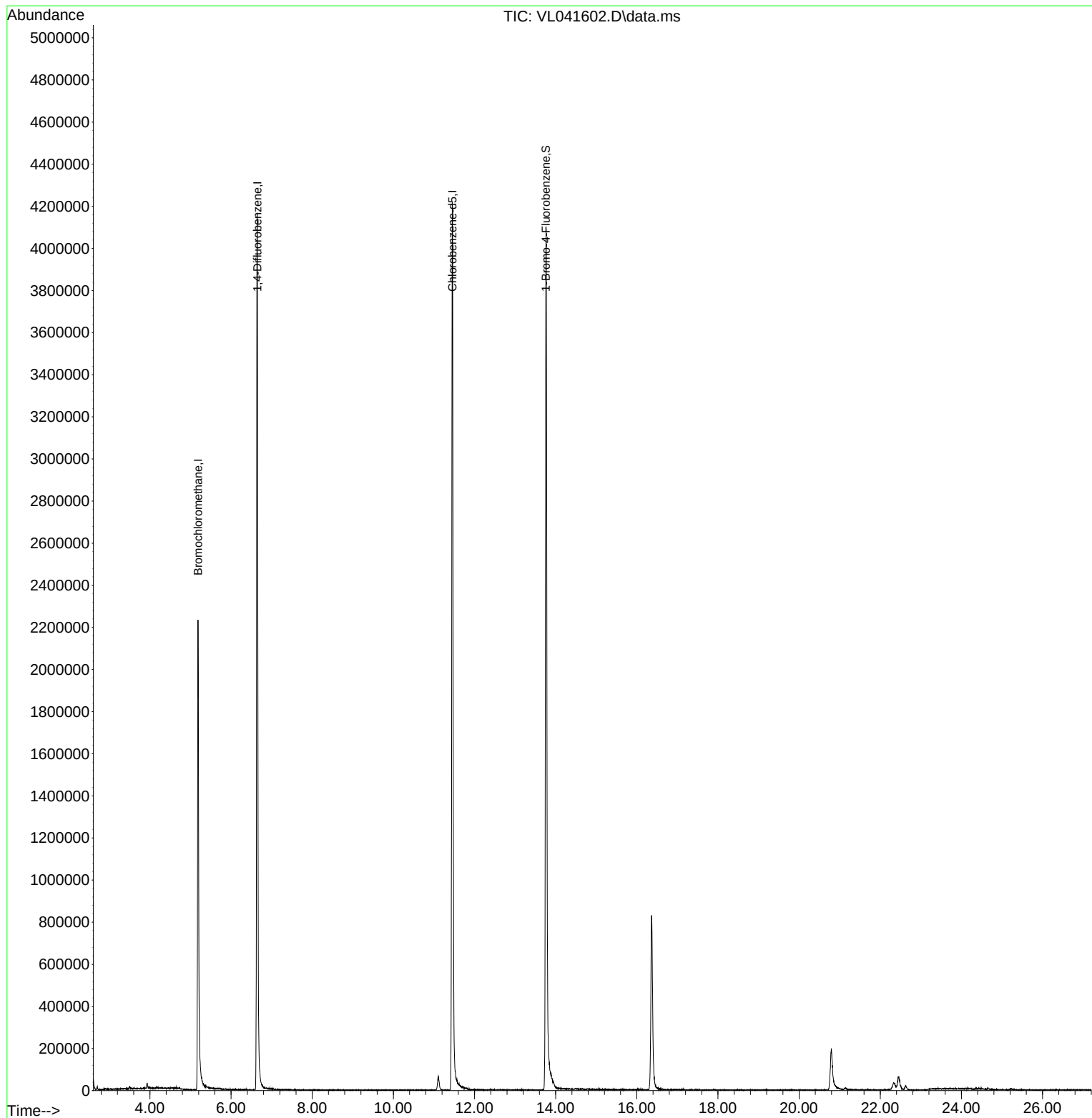
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
Data File : VL041602.D
Acq On : 18 Sep 2024 9:36
Operator : SY/MD
Sample : VL0918ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0918ABL01

Quant Time: Sep 19 01:29:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041603.D
 Acq On : 18 Sep 2024 10:16
 Operator : SY/MD
 Sample : VL0918ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS01

Quant Time: Sep 19 01:29:22 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2024
 Supervised By : Mahesh Dadoda 09/19/2024

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

Internal Standards						
1) Bromochloromethane	5.189	49	1156371	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	3163270	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.462	117	3156402	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2259237 9.723 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.732	85	1884134	11.282	ppbv	99
3) Chlorodifluoromethane	2.677	51	1281112	9.134	ppbv	99
4) Chloromethane	2.816	50	707023	9.165	ppbv	98
5) Vinyl Chloride	2.922	62	686540	10.278	ppbv	99
6) Bromomethane	3.121	94	316275	9.517	ppbv	99
7) Chloroethane	3.198	64	236020	9.085	ppbv	98
8) Dichlorotetrafluoroethane	2.858	85	1659459	9.473	ppbv	99
9) Propene	2.697	41	588244	9.943	ppbv	99
10) Heptane	7.574	43	1457487	10.522	ppbv	99
11) Trichlorofluoromethane	3.562	101	1615013	9.088	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.063	101	1190198	9.248	ppbv	99
13) Ethanol	3.250	45	26862m	6.039	ppbv	
14) Bromoethene	3.366	108	487861	9.997	ppbv	98
15) Acetone	3.468	43	1192968	8.217	ppbv	99
16) 1,3-Butadiene	2.986	39	693352	9.819	ppbv	96
17) tert-Butyl alcohol	3.877	59	1224256	9.589	ppbv	99
18) 1,1-Dichloroethene	3.880	96	535313	9.825	ppbv	99
19) Isopropyl Alcohol	3.575	45	656028	8.827	ppbv #	98
20) Methylene Chloride	3.931	84	441509	8.095	ppbv	98
21) Allyl Chloride	3.993	41	813252	9.665	ppbv	98
22) trans-1,2-Dichloroethene	4.443	96	522406	9.611	ppbv	99
23) Vinyl Acetate	4.623	43	835177	10.459	ppbv	98
24) 1,1-Dichloroethane	4.562	63	1142671	9.534	ppbv	99
25) Ethyl Acetate	5.201	43	2647300	10.158	ppbv	99
26) Hexane	5.208	57	1074230	9.884	ppbv	100
27) Carbon Disulfide	4.121	76	1270273	10.995	ppbv	100
28) Methyl tert-Butyl Ether	4.584	73	657790	9.816	ppbv	99
29) Chloroform	5.272	83	1685499	9.477	ppbv	98
30) Cyclohexane	6.597	84	909681	10.858	ppbv	100
31) cis-1,2-Dichloroethene	5.076	61	1045127	10.129	ppbv	98
32) 1,1,1-Trichloroethane	5.999	97	1637346	10.336	ppbv	98
34) 2-Butanone	4.784	43	1503091	9.965	ppbv	99
35) Carbon Tetrachloride	6.491	117	1732518	11.163	ppbv	98
36) Benzene	6.365	78	2307599	10.504	ppbv	99
37) 1,2-Dichloroethane	5.803	62	1290133	10.122	ppbv	100
38) Trichloroethene	7.288	130	1229916	10.871	ppbv	98
39) 1,2-Dichloropropane	7.070	63	887630	9.932	ppbv	99
40) 1,4-Dioxane	7.282	88	364111	10.808	ppbv #	98
41) Tetrahydrofuran	5.552	42	920914	11.094	ppbv	99
42) Bromodichloromethane	7.246	83	1840578	10.379	ppbv	97
43) Methyl Methacrylate	7.468	69	905817	11.522	ppbv	99
44) 2,2,4-Trimethylpentane	7.320	57	3875181	10.196	ppbv	100
45) t-1,3-Dichloropropene	8.703	75	809504	12.771	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041603.D
 Acq On : 18 Sep 2024 10:16
 Operator : SY/MD
 Sample : VL0918ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 01:29:22 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	1131086	12.181	ppbv	99
47) 1,1,2-Trichloroethane	8.893	97	963708	10.156	ppbv	98
48) Dibromochloromethane	9.706	129	1586368	11.034	ppbv	99
49) Bromoform	12.404	173	1395106	11.304	ppbv	100
50) 4-Methyl-2-Pentanone	8.176	43	2558165	10.982	ppbv	100
51) 2-Hexanone	9.542	43	1996601	11.332	ppbv #	99
52) Tetrachloroethene	10.610	164	870327	10.941	ppbv	98
53) Toluene	9.214	91	2660302	11.408	ppbv	100
54) 1,2-Dibromoethane	10.002	107	1300569	11.130	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.500	131	1174089	9.527	ppbv	98
57) Chlorobenzene	11.523	112	2083591	9.156	ppbv	99
58) Ethyl Benzene	12.082	91	3610725	10.686	ppbv	98
59) m/p-Xylene	12.365	91	6126839m	20.373	ppbv	
60) o-Xylene	13.053	91	2952785	10.241	ppbv	100
61) Styrene	12.889	104	1434081	11.906	ppbv	100
62) Isopropylbenzene	14.024	105	4303632	9.852	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.044	83	1395823	9.469	ppbv	99
64) n-propylbenzene	14.912	120	1163609	10.315	ppbv	98
65) tert-Butylbenzene	16.085	119	3844766	9.602	ppbv	100
66) Benzyl Chloride	16.320	91	212184	10.193	ppbv	99
67) sec-Butylbenzene	16.632	105	5382674	9.689	ppbv	100
69) p-Isopropyltoluene	16.989	119	4506080	10.021	ppbv	100
70) n-Butylbenzene	17.879	91	4641102	9.853	ppbv	100
71) 2-Chlorotoluene	14.796	91	3239678	10.080	ppbv	100
72) 4-Ethyltoluene	15.188	105	3572445	10.600	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	3028398	10.176	ppbv	97
74) 1,2,4-Trimethylbenzene	16.101	105	3355900	9.634	ppbv	99
75) 1,3-Dichlorobenzene	16.323	146	2087035	9.560	ppbv	100
76) 1,4-Dichlorobenzene	16.468	146	2006487	9.592	ppbv	99
77) 1,2-Dichlorobenzene	17.137	146	2006971	9.312	ppbv	100
78) Hexachloro-1,3-Butadiene	22.625	225	1497828	8.425	ppbv	99
79) Naphthalene	21.374	128	3150966	12.291	ppbv	98
80) Naphthalene,2-methyl-	24.368	142	2210947	12.308	ppbv	99
81) 1,2,4-Trichlorobenzene	21.133	180	1664970	10.215	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041615.D
 Acq On : 18 Sep 2024 20:38
 Operator : SY/MD
 Sample : QC090524 CAN10153
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC090524 CAN10153

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 03:40:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1000091	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.655	114	2767195	10.000	ppbv	0.03
55) Chlorobenzene-d5	11.465	117	2435639	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.773	95	1757273	9.801	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%

Target Compounds	Qvalue

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

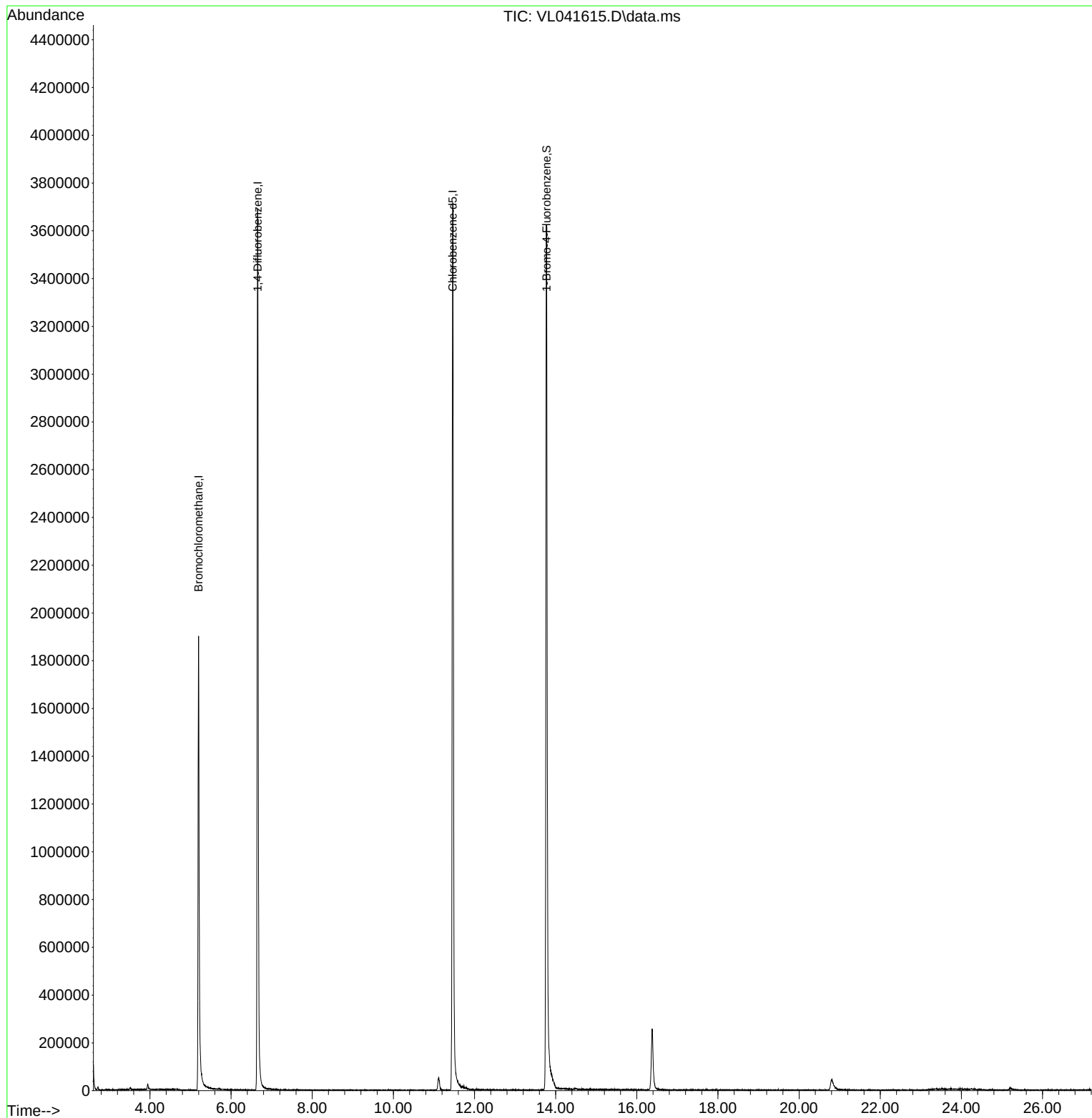
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
Data File : VL041615.D
Acq On : 18 Sep 2024 20:38
Operator : SY/MD
Sample : QC090524 CAN10153
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC090524 CAN10153

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 03:40:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration

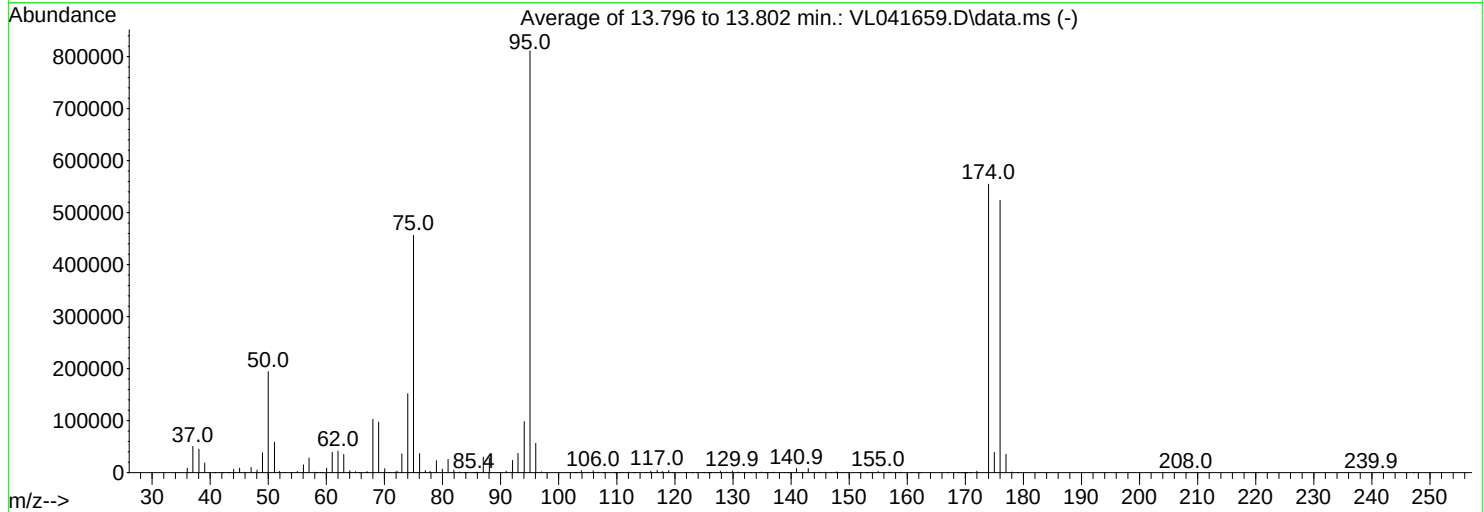
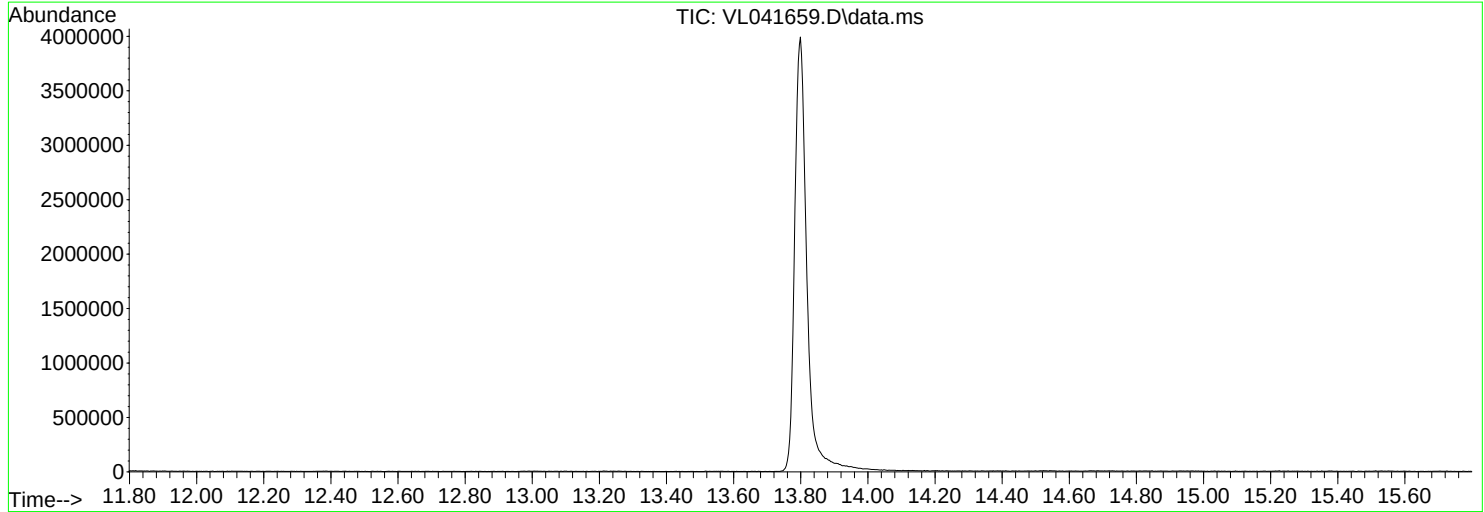


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
Data File : VL041659.D
Acq On : 14 Oct 2024 8:23
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 17 09:12:21 2024



AutoFind: Scans 3481, 3482, 3483; Background Corrected with Scan 3456

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.0	194560	PASS
75	95	30	66	56.3	456469	PASS
95	95	100	100	100.0	811243	PASS
96	95	5	9	7.0	56400	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.4	554837	PASS
175	174	4	9	7.1	39429	PASS
176	174	93	101	94.4	523797	PASS
177	176	5	9	6.7	35344	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041660.D
 Acq On : 14 Oct 2024 9:43
 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 10/15/2024
 Supervised By :Mahesh Dadoda 10/15/2024

Quant Time: Oct 15 02:38:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1139050	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.671	114	3098402	10.000	ppbv	0.04
55) Chlorobenzene-d5	11.491	117	3033567	10.000	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.799 95 2208698 9.891 ppbv 0.05
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	1287579	7.827	ppbv	99
3) Chlorodifluoromethane	2.668	51	1359492	9.840	ppbv	99
4) Chloromethane	2.809	50	754633	9.931	ppbv	96
5) Vinyl Chloride	2.915	62	733569	11.149	ppbv	100
6) Bromomethane	3.115	94	281384	8.596	ppbv	98
7) Chloroethane	3.195	64	259953	10.159	ppbv	98
8) Dichlorotetrafluoroethane	2.851	85	1730383	10.028	ppbv	99
9) Propene	2.687	41	653601	11.216	ppbv	100
10) Heptane	7.597	43	1554594	11.394	ppbv	100
11) Trichlorofluoromethane	3.562	101	1689077	9.649	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.070	101	1265757	9.984	ppbv	99
13) Ethanol	3.243	45	25933m	5.919	ppbv	
14) Bromoethene	3.365	108	516546	10.745	ppbv	99
15) Acetone	3.468	43	1299921	9.090	ppbv	100
16) 1,3-Butadiene	2.983	39	734455	10.559	ppbv	99
17) tert-Butyl alcohol	3.880	59	1332556	10.596	ppbv	99
18) 1,1-Dichloroethene	3.883	96	567989	10.583	ppbv	98
19) Isopropyl Alcohol	3.578	45	754520	10.307	ppbv	99
20) Methylene Chloride	3.935	84	454891	8.467	ppbv	96
21) Allyl Chloride	3.999	41	908373	10.960	ppbv	99
22) trans-1,2-Dichloroethene	4.452	96	565315	10.559	ppbv	100
23) Vinyl Acetate	4.635	43	966869	12.292	ppbv #	98
24) 1,1-Dichloroethane	4.571	63	1246647	10.559	ppbv	99
25) Ethyl Acetate	5.214	43	2782394	10.838	ppbv	100
26) Hexane	5.221	57	1163508	10.868	ppbv	97
27) Carbon Disulfide	4.127	76	1356524	11.920	ppbv	99
28) Methyl tert-Butyl Ether	4.594	73	721141	10.925	ppbv	100
29) Chloroform	5.288	83	1749654	9.987	ppbv	97
30) Cyclohexane	6.616	84	959853	11.631	ppbv	99
31) cis-1,2-Dichloroethene	5.089	61	1094693	10.771	ppbv	98
32) 1,1,1-Trichloroethane	6.015	97	1715729	10.995	ppbv	99
34) 2-Butanone	4.796	43	1483922	10.044	ppbv	99
35) Carbon Tetrachloride	6.510	117	1753896	11.537	ppbv	98
36) Benzene	6.385	78	2426961	11.279	ppbv	99
37) 1,2-Dichloroethane	5.822	62	1320644	10.578	ppbv	99
38) Trichloroethene	7.311	130	1180521	10.653	ppbv	98
39) 1,2-Dichloropropane	7.092	63	948760	10.838	ppbv	100
40) 1,4-Dioxane	7.304	88	376944	11.423	ppbv #	100
41) Tetrahydrofuran	5.568	42	1015739	12.493	ppbv	98
42) Bromodichloromethane	7.269	83	1881537	10.832	ppbv	99
43) Methyl Methacrylate	7.491	69	943145	12.248	ppbv	100
44) 2,2,4-Trimethylpentane	7.346	57	4090203	10.987	ppbv	100
45) t-1,3-Dichloropropene	8.729	75	720472	11.605	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041660.D
 Acq On : 14 Oct 2024 9:43
 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 10/15/2024
 Supervised By : Mahesh Dadoda 10/15/2024

Quant Time: Oct 15 02:38:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.163	75	1040833	11.444	ppbv	99
47) 1,1,2-Trichloroethane	8.918	97	977523	10.517	ppbv	97
48) Dibromochloromethane	9.732	129	1583619	11.245	ppbv	99
49) Bromoform	12.429	173	1364123	11.284	ppbv	99
50) 4-Methyl-2-Pentanone	8.198	43	2676056	11.729	ppbv	100
51) 2-Hexanone	9.568	43	2120806	12.289	ppbv	99
52) Tetrachloroethene	10.635	164	876267	11.246	ppbv	98
53) Toluene	9.243	91	2746651	12.025	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1315299	11.491	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.532	131	1179827	9.961	ppbv	98
57) Chlorobenzene	11.552	112	2095164	9.579	ppbv	99
58) Ethyl Benzene	12.111	91	3656350	11.259	ppbv	99
59) m/p-Xylene	12.394	91	6168384m	21.342	ppbv	
60) o-Xylene	13.085	91	2959365	10.680	ppbv	99
61) Styrene	12.921	104	1423375	12.295	ppbv	100
62) Isopropylbenzene	14.053	105	4313712	10.275	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.069	83	1527720	10.783	ppbv	99
64) n-propylbenzene	14.941	120	1151763	10.623	ppbv	99
65) tert-Butylbenzene	16.114	119	3846358	9.995	ppbv	100
66) Benzyl Chloride	16.349	91	202012	10.098	ppbv	99
67) sec-Butylbenzene	16.661	105	5377834	10.073	ppbv	100
69) p-Isopropyltoluene	17.021	119	4463259	10.328	ppbv	100
70) n-Butylbenzene	17.911	91	4587597	10.134	ppbv	100
71) 2-Chlorotoluene	14.828	91	3227785	10.450	ppbv	99
72) 4-Ethyltoluene	15.217	105	3522903	10.876	ppbv	99
73) 1,3,5-Trimethylbenzene	15.378	105	3015731	10.544	ppbv	96
74) 1,2,4-Trimethylbenzene	16.133	105	3335754	9.964	ppbv	97
75) 1,3-Dichlorobenzene	16.355	146	2005347	9.558	ppbv	100
76) 1,4-Dichlorobenzene	16.497	146	1924339	9.571	ppbv	100
77) 1,2-Dichlorobenzene	17.166	146	1941181	9.372	ppbv	99
78) Hexachloro-1,3-Butadiene	22.660	225	1360072	7.960	ppbv	99
79) Naphthalene	21.410	128	2595328	10.533	ppbv	99
80) Naphthalene,2-methyl-	24.394	142	895271	5.185	ppbv	99
81) 1,2,4-Trichlorobenzene	21.165	180	1390542	8.877	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041660.D
 Acq On : 14 Oct 2024 9:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 15 02:38:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	99	0.03
2 T	Dichlorodifluoromethane	1.444	1.130	21.7	85	0.02
3	Chlorodifluoromethane	1.213	1.194	1.6	107	0.02
4	Chloromethane	0.667	0.663	0.6	107	0.02
5 T	Vinyl Chloride	0.578	0.644	-11.4	108	0.02
6 T	Bromomethane	0.287	0.247	13.9	89	0.02
7	Chloroethane	0.225	0.228	-1.3	106	0.02
8 T	Dichlorotetrafluoroethane	1.515	1.519	-0.3	105	0.02
9 T	Propene	0.512	0.574	-12.1	110	0.02
10 T	Heptane	1.198	1.365	-13.9	106	0.04
11 T	Trichlorofluoromethane	1.537	1.483	3.5	102	0.02
12 T	1,1,2-Trichlorotrifluoroeth	1.113	1.111	0.2	105	0.03
13	Ethanol	0.038	0.023#	39.5#	95	0.02
14 T	Bromoethene	0.422	0.453	-7.3	106	0.02
15 T	Acetone	1.255	1.141	9.1	110	0.03
16 T	1,3-Butadiene	0.611	0.645	-5.6	110	0.02
17	tert-Butyl alcohol	1.104	1.170	-6.0	106	0.03
18 T	1,1-Dichloroethene	0.471	0.499	-5.9	103	0.03
19 T	Isopropyl Alcohol	0.643	0.662	-3.0	105	0.03
20 T	Methylene Chloride	0.472	0.399	15.5	102	0.03
21 T	Allyl Chloride	0.728	0.797	-9.5	107	0.03
22 T	trans-1,2-Dichloroethene	0.470	0.496	-5.5	106	0.03
23 T	Vinyl Acetate	0.691	0.849	-22.9	121	0.03
24 T	1,1-Dichloroethane	1.036	1.094	-5.6	109	0.03
25 T	Ethyl Acetate	2.254	2.443	-8.4	106	0.04
26 T	Hexane	0.940	1.021	-8.6	109	0.03
27 T	Carbon Disulfide	0.999	1.191	-19.2	106	0.03
28 T	Methyl tert-Butyl Ether	0.579	0.633	-9.3	112	0.03
29 T	Chloroform	1.538	1.536	0.1	104	0.04
30 T	Cyclohexane	0.725	0.843	-16.3	106	0.04
31 T	cis-1,2-Dichloroethene	0.892	0.961	-7.7	105	0.04
32 T	1,1,1-Trichloroethane	1.370	1.506	-9.9	103	0.04
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.04
34 T	2-Butanone	0.477	0.479	-0.4	99	0.04
35 T	Carbon Tetrachloride	0.491	0.566	-15.3	101	0.04
36 T	Benzene	0.694	0.783	-12.8	107	0.04
37 T	1,2-Dichloroethane	0.403	0.426	-5.7	104	0.04
38 T	Trichloroethene	0.358	0.381	-6.4	98	0.05
39 T	1,2-Dichloropropane	0.283	0.306	-8.1	108	0.04
40 T	1,4-Dioxane	0.107	0.122	-14.0	104	0.04
41 T	Tetrahydrofuran	0.262	0.328	-25.2	110	0.04
42 T	Bromodichloromethane	0.561	0.607	-8.2	103	0.04
43	Methyl Methacrylate	0.249	0.304	-22.1	105	0.04
44 T	2,2,4-Trimethylpentane	1.202	1.320	-9.8	106	0.04
45 T	t-1,3-Dichloropropene	0.200	0.233	-16.5	92	0.04
46 T	cis-1,3-Dichloropropene	0.294	0.336	-14.3	92	0.04
47 T	1,1,2-Trichloroethane	0.300	0.315	-5.0	103	0.05
48 T	Dibromochloromethane	0.455	0.511	-12.3	101	0.05

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041660.D
 Acq On : 14 Oct 2024 9:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 15 02:38:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 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	0.390	0.440	-12.8	99	0.05
50 T	4-Methyl-2-Pentanone	0.736	0.864	-17.4	106	0.04
51 T	2-Hexanone	0.557	0.684	-22.8	105	0.04
52 T	Tetrachloroethene	0.251	0.283	-12.7	103	0.05
53 T	Toluene	0.737	0.886	-20.2	103	0.05
54 T	1,2-Dibromoethane	0.369	0.425	-15.2	101	0.05
55 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.05
56	1,1,1,2-Tetrachloroethane	0.390	0.389	0.3	102	0.05
57 T	Chlorobenzene	0.721	0.691	4.2	100	0.05
58 T	Ethyl Benzene	1.070	1.205	-12.6	102	0.05
59 T	m/p-Xylene	0.953	1.017	-6.7	101	0.05
60 T	o-Xylene	0.913	0.976	-6.9	100	0.05
61 T	Styrene	0.382	0.469	-22.8	99	0.05
62	Isopropylbenzene	1.384	1.422	-2.7	101	0.05
63 T	1,1,2,2-Tetrachloroethane	0.467	0.504	-7.9	109	0.05
64	n-propylbenzene	0.357	0.380	-6.4	100	0.05
65	tert-Butylbenzene	1.269	1.268	0.1	100	0.05
66 T	Benzyl Chloride	0.066	0.067	-1.5	98	0.05
67	sec-Butylbenzene	1.760	1.773	-0.7	99	0.05
68 S	1-Bromo-4-Fluorobenzene	0.736	0.728	1.1	97	0.05
69	p-Isopropyltoluene	1.425	1.471	-3.2	98	0.05
70	n-Butylbenzene	1.492	1.512	-1.3	98	0.05
71	2-Chlorotoluene	1.018	1.064	-4.5	100	0.05
72 T	4-Ethyltoluene	1.068	1.161	-8.7	99	0.05
73 T	1,3,5-Trimethylbenzene	0.943	0.994	-5.4	99	0.05
74 T	1,2,4-Trimethylbenzene	1.104	1.100	0.4	99	0.05
75 T	1,3-Dichlorobenzene	0.692	0.661	4.5	96	0.05
76 T	1,4-Dichlorobenzene	0.663	0.634	4.4	95	0.05
77 T	1,2-Dichlorobenzene	0.683	0.640	6.3	96	0.05
78 T	Hexachloro-1,3-Butadiene	0.563	0.448	20.4	90	0.05
79 T	Naphthalene	0.812	0.856	-5.4	82	0.05
80 T	Naphthalene,2-methyl-	0.569	0.295	48.2#	39	0.04
81 T	1,2,4-Trichlorobenzene	0.516	0.458	11.2	83	0.05

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041663.D
 Acq On : 14 Oct 2024 11:41
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Oct 15 02:40:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1006897	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	6.671	114	2688648	10.000	ppbv	0.04
55) Chlorobenzene-d5	11.491	117	2332708	10.000	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.802	95	1624426	9.460	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.600%

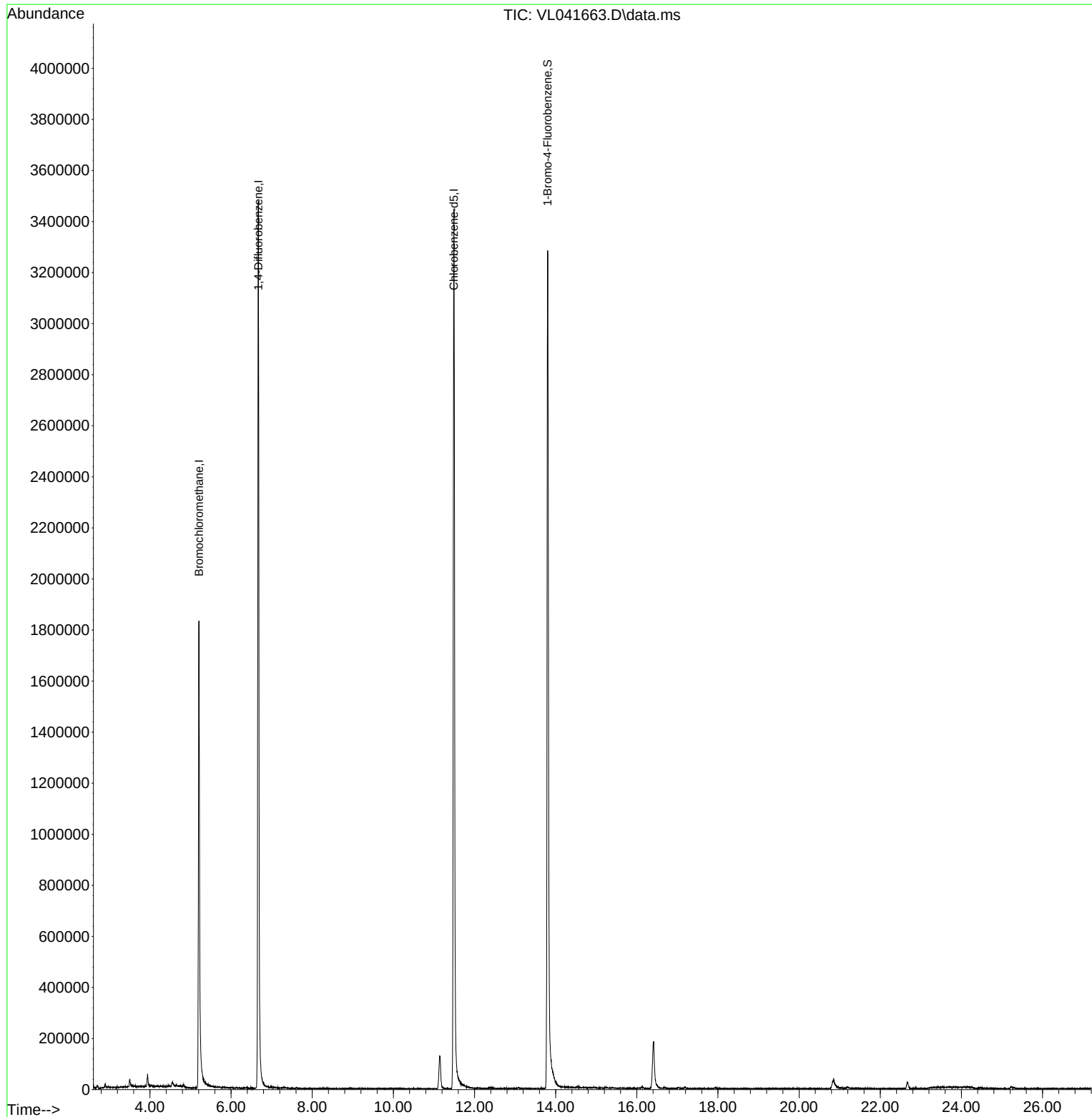
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
Data File : VL041663.D
Acq On : 14 Oct 2024 11:41
Operator : SY/MD
Sample : VIBLK
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Oct 15 02:40:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041662.D
 Acq On : 14 Oct 2024 11:02
 Operator : SY/MD
 Sample : VL1014ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1014ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/15/2024
 Supervised By :Mahesh Dadoda 10/15/2024

Quant Time: Oct 15 02:39:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.205	49	1108335	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	6.668	114	2963163	10.000	ppbv	0.04
55) Chlorobenzene-d5	11.491	117	2950594m	10.000	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.799 95 2157989 9.935 ppbv 0.05
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.722	85	1145692	7.158	ppbv	100
3) Chlorodifluoromethane	2.668	51	1310086	9.745	ppbv	99
4) Chloromethane	2.809	50	719788	9.735	ppbv	99
5) Vinyl Chloride	2.915	62	702662	10.975	ppbv	99
6) Bromomethane	3.118	94	255661	8.027	ppbv	98
7) Chloroethane	3.195	64	243123	9.764	ppbv	100
8) Dichlorotetrafluoroethane	2.851	85	1660268	9.888	ppbv	100
9) Propene	2.687	41	601524	10.608	ppbv	100
10) Heptane	7.597	43	1497343	11.278	ppbv	100
11) Trichlorofluoromethane	3.562	101	1638422	9.620	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.070	101	1209387	9.804	ppbv	99
13) Ethanol	3.250	45	25964m	6.091	ppbv	
14) Bromoethene	3.362	108	490120	10.478	ppbv	99
15) Acetone	3.468	43	1216859	8.745	ppbv	99
16) 1,3-Butadiene	2.980	39	697703	10.309	ppbv	97
17) tert-Butyl alcohol	3.880	59	1247539	10.195	ppbv	99
18) 1,1-Dichloroethene	3.883	96	536176	10.267	ppbv	98
19) Isopropyl Alcohol	3.578	45	669012	9.392	ppbv #	98
20) Methylene Chloride	3.935	84	432714	8.278	ppbv	93
21) Allyl Chloride	3.999	41	835610	10.361	ppbv	99
22) trans-1,2-Dichloroethene	4.449	96	529705	10.168	ppbv	99
23) Vinyl Acetate	4.632	43	878250	11.475	ppbv	99
24) 1,1-Dichloroethane	4.571	63	1187574	10.338	ppbv	100
25) Ethyl Acetate	5.214	43	2658560	10.643	ppbv	99
26) Hexane	5.221	57	1083358	10.400	ppbv	99
27) Carbon Disulfide	4.128	76	1283235	11.588	ppbv	99
28) Methyl tert-Butyl Ether	4.594	73	665747	10.366	ppbv	99
29) Chloroform	5.285	83	1702002	9.984	ppbv	97
30) Cyclohexane	6.619	84	915770	11.404	ppbv	99
31) cis-1,2-Dichloroethene	5.089	61	1035844	10.474	ppbv	99
32) 1,1,1-Trichloroethane	6.015	97	1684176	11.092	ppbv	99
34) 2-Butanone	4.793	43	1385663	9.807	ppbv	99
35) Carbon Tetrachloride	6.507	117	1746265	12.011	ppbv	100
36) Benzene	6.385	78	2302124	11.187	ppbv	99
37) 1,2-Dichloroethane	5.822	62	1275743	10.685	ppbv	99
38) Trichloroethene	7.307	130	1161316	10.958	ppbv	99
39) 1,2-Dichloropropane	7.089	63	896567	10.709	ppbv	98
40) 1,4-Dioxane	7.307	88	351904	11.151	ppbv #	99
41) Tetrahydrofuran	5.568	42	919479	11.825	ppbv	100
42) Bromodichloromethane	7.266	83	1834480	11.043	ppbv	99
43) Methyl Methacrylate	7.494	69	902852	12.260	ppbv	99
44) 2,2,4-Trimethylpentane	7.343	57	3928081	11.033	ppbv	100
45) t-1,3-Dichloropropene	8.729	75	686411	11.561	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041662.D
 Acq On : 14 Oct 2024 11:02
 Operator : SY/MD
 Sample : VL1014ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1014ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/15/2024
 Supervised By : Mahesh Dadoda 10/15/2024

Quant Time: Oct 15 02:39:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.163	75	986486	11.341	ppbv	99
47) 1,1,2-Trichloroethane	8.918	97	953812	10.730	ppbv	99
48) Dibromochloromethane	9.732	129	1556080	11.554	ppbv	100
49) Bromoform	12.433	173	1337606	11.570	ppbv	99
50) 4-Methyl-2-Pentanone	8.198	43	2599545	11.914	ppbv	99
51) 2-Hexanone	9.571	43	2038924	12.354	ppbv	100
52) Tetrachloroethene	10.639	164	845842	11.351	ppbv	97
53) Toluene	9.240	91	2657525	12.166	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1251918	11.437	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.529	131	1161496	10.082	ppbv	99
57) Chlorobenzene	11.552	112	2072182	9.741	ppbv	98
58) Ethyl Benzene	12.111	91	3564325	11.285	ppbv	99
59) m/p-Xylene	12.394	91	6050276m	21.522	ppbv	
60) o-Xylene	13.079	91	2940555	10.910	ppbv	100
61) Styrene	12.918	104	1389742	12.342	ppbv	100
62) Isopropylbenzene	14.053	105	4251841	10.413	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.069	83	1519552	11.027	ppbv	99
64) n-propylbenzene	14.937	120	1134283	10.756	ppbv	99
65) tert-Butylbenzene	16.114	119	3818025	10.201	ppbv	100
66) Benzyl Chloride	16.349	91	206302	10.602	ppbv	95
67) sec-Butylbenzene	16.661	105	5353060	10.308	ppbv	100
69) p-Isopropyltoluene	17.018	119	4451290	10.590	ppbv	100
70) n-Butylbenzene	17.908	91	4571641	10.382	ppbv	100
71) 2-Chlorotoluene	14.825	91	3185904	10.604	ppbv	99
72) 4-Ethyltoluene	15.214	105	3484380	11.060	ppbv	99
73) 1,3,5-Trimethylbenzene	15.375	105	2987131	10.737	ppbv	98
74) 1,2,4-Trimethylbenzene	16.134	105	3325802	10.214	ppbv	95
75) 1,3-Dichlorobenzene	16.355	146	1996430	9.783	ppbv	100
76) 1,4-Dichlorobenzene	16.497	146	1937729	9.909	ppbv	100
77) 1,2-Dichlorobenzene	17.169	146	1943634	9.647	ppbv	99
78) Hexachloro-1,3-Butadiene	22.664	225	1356495	8.162	ppbv	100
79) Naphthalene	21.413	128	2594745	10.827	ppbv	99
80) Naphthalene,2-methyl-	24.394	142	833531	4.964	ppbv	99
81) 1,2,4-Trichlorobenzene	21.165	180	1375748	9.030	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
 Data File : VL041664.D
 Acq On : 14 Oct 2024 12:20
 Operator : SY/MD
 Sample : CAN 10258
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10258

Quant Time: Oct 15 02:40:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1000184	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.667	114	2684060	10.000	ppbv	0.04
55) Chlorobenzene-d5	11.487	117	2368428	10.000	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.799	95	1743192	9.998	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

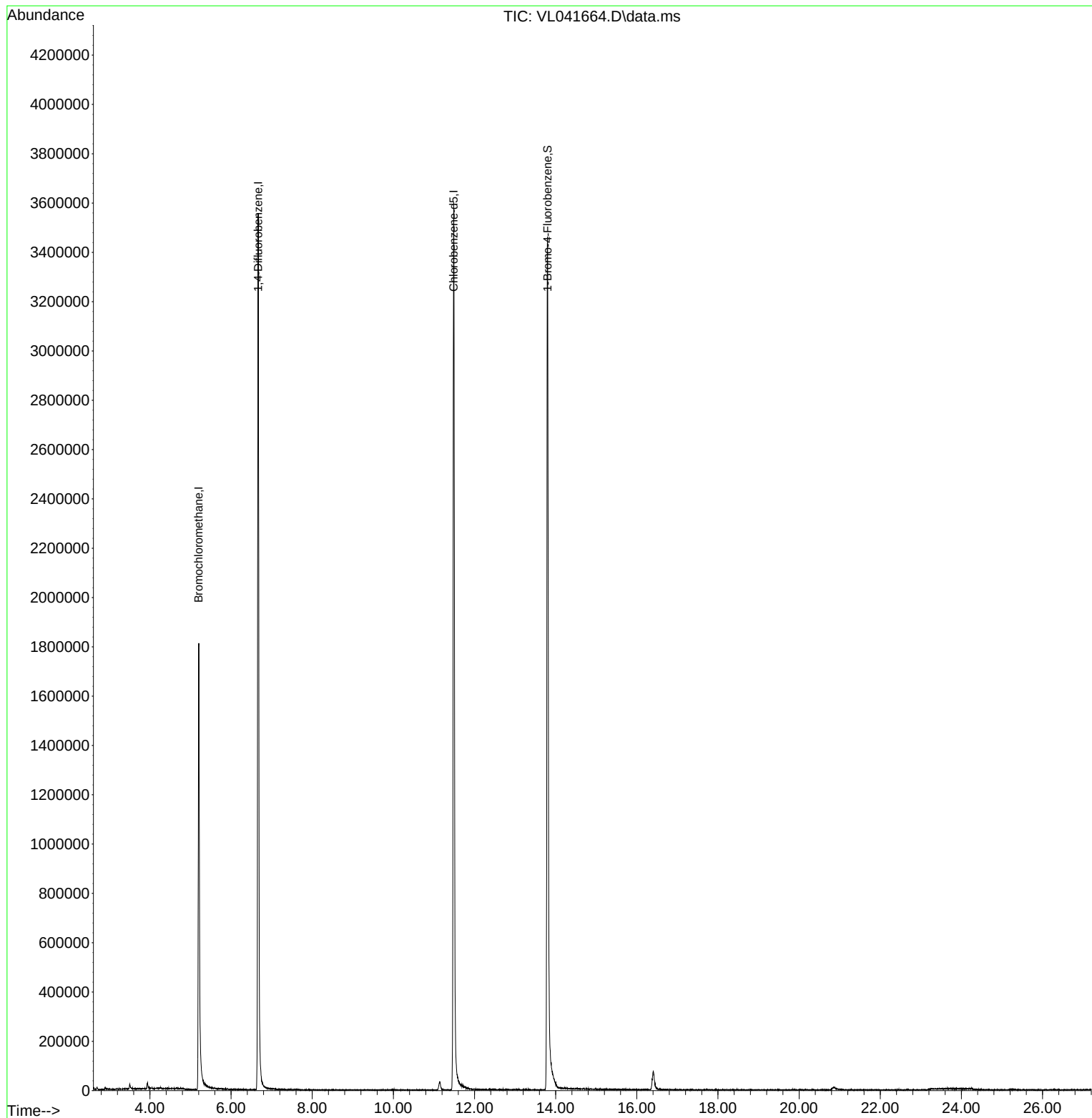
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101424\
Data File : VL041664.D
Acq On : 14 Oct 2024 12:20
Operator : SY/MD
Sample : CAN 10258
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10258

Quant Time: Oct 15 02:40:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL101424

Review By	Semsettin Yesilyurt	Review On	10/15/2024 1:33:56 PM
Supervise By	Mahesh Dadoda	Supervise On	10/15/2024 6:29:46 PM
SubDirectory	VL101424	HP Acquire Method	AIR-TO15
		HP Processing Method	VL091624AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2543		
Initial Calibration Stds	AP2546,AP2547,AP2548		
CCC	AP2546		
Internal Standard/PEM	AP2543		
ICV/I.BLK	AP2544		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041659.D	14 Oct 2024 8:23	SY/MD	Ok
2	VSTDCCC010	VL041660.D	14 Oct 2024 9:43	SY/MD	Ok,M
3	VL1014ABL01	VL041661.D	14 Oct 2024 10:23	SY/MD	Ok
4	VL1014ABS01	VL041662.D	14 Oct 2024 11:02	SY/MD	Ok,M
5	VIBLK	VL041663.D	14 Oct 2024 11:41	SY/MD	Ok
6	CAN 10258	VL041664.D	14 Oct 2024 12:20	SY/MD	Ok
7	CAN 10590	VL041665.D	14 Oct 2024 13:00	SY/MD	Ok,M
8	CAN 10334	VL041666.D	14 Oct 2024 13:40	SY/MD	Ok,M
9	P4368-15 0.45	VL041667.D	14 Oct 2024 14:20	SY/MD	Ok,M
10	P4368-15 0.40	VL041668.D	14 Oct 2024 15:00	SY/MD	Ok,M
11	P4368-15 0.1	VL041669.D	14 Oct 2024 15:40	SY/MD	Ok,M
12	P4368-15 0.03	VL041670.D	14 Oct 2024 16:20	SY/MD	Ok,M
13	VSTDCCC010	VL041671.D	14 Oct 2024 17:00	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL072524

Review By	Semsettin Yesilyurt	Review On	7/29/2024 10:58:46 AM
Supervise By	Mahesh Dadoda	Supervise On	7/29/2024 5:57:16 PM
SubDirectory	VL072524	HP Acquire Method	AIR-TO15
		HP Processing Method	VL072524AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2535		
Initial Calibration Stds	AP2539,AP2540,AP2541		
CCC	AP2539		
Internal Standard/PEM	AP2535		
ICV/I.BLK	AP2537		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041397.D	25 Jul 2024 12:29	SY/MD	Ok
2	VSTDIC0.5	VL041398.D	25 Jul 2024 13:19	SY/MD	Ok,M
3	VSTDICCC010	VL041399.D	25 Jul 2024 13:59	SY/MD	Ok,M
4	VSTDIC002	VL041400.D	25 Jul 2024 14:40	SY/MD	Ok,M
5	VSTDIC001	VL041401.D	25 Jul 2024 15:19	SY/MD	Ok,M
6	VSTDIC0.5	VL041402.D	25 Jul 2024 16:00	SY/MD	Not Ok
7	VSTDIC0.1	VL041403.D	25 Jul 2024 16:42	SY/MD	Ok,M
8	VSTDIC0.03	VL041404.D	25 Jul 2024 17:24	SY/MD	Ok,M
9	VSTDIC015	VL041405.D	25 Jul 2024 18:06	SY/MD	Ok,M
10	VSTDICV010	VL041406.D	25 Jul 2024 19:31	SY/MD	Ok,M
11	VL0725ABL01	VL041407.D	25 Jul 2024 20:56	SY/MD	Ok
12	VL0725ABS01	VL041408.D	25 Jul 2024 21:38	SY/MD	Ok,M
13	VIBLK	VL041409.D	25 Jul 2024 22:20	SY/MD	Ok
14	P3320-01	VL041410.D	26 Jul 2024 7:22	SY/MD	Ok,M
15	P3320-01DUP	VL041411.D	26 Jul 2024 8:02	SY/MD	Ok,M
16	P3320-02	VL041412.D	26 Jul 2024 8:43	SY/MD	Dilution
17	P3342-04	VL041413.D	26 Jul 2024 9:24	SY/MD	Ok,M
18	P3356-01	VL041414.D	26 Jul 2024 10:04	SY/MD	Dilution
19	P3356-02	VL041415.D	26 Jul 2024 10:45	SY/MD	Ok,M
20	P3320-02DL	VL041416.D	26 Jul 2024 11:25	SY/MD	Ok,M
21	P3356-01DL	VL041417.D	26 Jul 2024 12:05	SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL072524

Review By	Semsettin Yesilyurt	Review On	7/29/2024 10:58:46 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/29/2024 5:57:16 PM		
SubDirectory	VL072524	HP Acquire Method	AIR-TO15	HP Processing Method	VL072524AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2535				
Initial Calibration Stds	AP2539,AP2540,AP2541				
CCC	AP2539				
Internal Standard/PEM	AP2535				
ICV/I.BLK	AP2537				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC010	VL041418.D	26 Jul 2024 12:45	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081924

Review By	Semsettin Yesilyurt	Review On	8/20/2024 2:35:55 PM		
Supervise By	Maresh Dadoda	Supervise On	8/20/2024 4:35:44 PM		
SubDirectory	VL081924	HP Acquire Method	AIR-TO15	HP Processing Method	VL072524AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2536				
Initial Calibration Stds	AP2539,AP2540,AP2541				
CCC	AP2539				
Internal Standard/PEM	AP2536				
ICV/I.BLK	AP2537				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041539.D	19 Aug 2024 8:10	SY/MD	Ok
2	VSTDCCC010	VL041540.D	19 Aug 2024 8:59	SY/MD	Ok,M
3	VL0819ABL01	VL041541.D	19 Aug 2024 10:07	SY/MD	Ok
4	VL0819ABS01	VL041542.D	19 Aug 2024 10:48	SY/MD	Ok,M
5	QC081324 CAN 10604	VL041543.D	19 Aug 2024 11:29	SY/MD	Ok
6	QC081424 CAN 10280	VL041544.D	19 Aug 2024 12:10	SY/MD	Ok
7	QC081424 CAN 10054	VL041545.D	19 Aug 2024 12:51	SY/MD	Ok
8	P3658-01	VL041546.D	19 Aug 2024 13:33	SY/MD	Ok,M
9	P3658-01DUP	VL041547.D	19 Aug 2024 14:14	SY/MD	Ok,M
10	P3658-02	VL041548.D	19 Aug 2024 14:56	SY/MD	Ok,M
11	P3659-01	VL041549.D	19 Aug 2024 15:40	SY/MD	Ok,M
12	P3658-03	VL041550.D	19 Aug 2024 16:25	SY/MD	Ok,M
13	P3658-03DL	VL041551.D	19 Aug 2024 17:11	SY/MD	Not Ok
14	P3658-04	VL041552.D	19 Aug 2024 17:56	SY/MD	Ok,M
15	P3658-04DL	VL041553.D	19 Aug 2024 18:40	SY/MD	Not Ok
16	P3658-05	VL041554.D	19 Aug 2024 19:24	SY/MD	Ok,M
17	P3658-05DL	VL041555.D	19 Aug 2024 20:09	SY/MD	Not Ok
18	P3659-02	VL041556.D	19 Aug 2024 20:53	SY/MD	Dilution
19	P3659-02DL	VL041557.D	19 Aug 2024 21:36	SY/MD	Dilution

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL091624

Review By	Semsettin Yesilyurt	Review On	9/17/2024 11:23:42 AM		
Supervise By	Maresh Dadoda	Supervise On	9/17/2024 6:52:14 PM		
SubDirectory	VL091624	HP Acquire Method	AIR-TO15	HP Processing Method	VL091624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2542			
Initial Calibration Stds		AP2546,AP2547,AP2548			
CCC		AP2546			
Internal Standard/PEM		AP2542			
ICV/I.BLK		AP2544			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041590.D	16 Sep 2024 11:50	SY/MD	Ok
2	VSTDICC0.5	VL041591.D	16 Sep 2024 12:36	SY/MD	Ok,M
3	VSTDICCC010	VL041592.D	16 Sep 2024 13:15	SY/MD	Ok,M
4	VSTDICC002	VL041593.D	16 Sep 2024 13:56	SY/MD	Ok,M
5	VSTDICC001	VL041594.D	16 Sep 2024 14:36	SY/MD	Ok,M
6	VSTDICC0.5	VL041595.D	16 Sep 2024 15:16	SY/MD	Not Ok
7	VSTDICC0.1	VL041596.D	16 Sep 2024 15:56	SY/MD	Ok,M
8	VSTDICC0.03	VL041597.D	16 Sep 2024 16:38	SY/MD	Ok,M
9	VSTDICC015	VL041598.D	16 Sep 2024 17:20	SY/MD	Ok
10	VSTDICV010	VL041599.D	16 Sep 2024 18:46	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL091824

Review By	Semsettin Yesilyurt	Review On	9/19/2024 10:46:15 AM
Supervise By	Maresh Dadoda	Supervise On	9/19/2024 2:44:52 PM
SubDirectory	VL091824	HP Acquire Method	AIR-TO15
		HP Processing Method	VL091624AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2542		
Initial Calibration Stds	AP2546,AP2547,AP2548		
CCC	AP2546		
Internal Standard/PEM	AP2542		
ICV/I.BLK	AP2544		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041600.D	18 Sep 2024 8:06	SY/MD	Ok
2	VSTDCCC010	VL041601.D	18 Sep 2024 8:46	SY/MD	Ok,M
3	VL0918ABL01	VL041602.D	18 Sep 2024 9:36	SY/MD	Ok
4	VL0918ABS01	VL041603.D	18 Sep 2024 10:16	SY/MD	Ok,M
5	VIBLK	VL041604.D	18 Sep 2024 13:01	SY/MD	Ok
6	P4028-02	VL041605.D	18 Sep 2024 13:42	SY/MD	Ok,M
7	P4028-02DUP	VL041606.D	18 Sep 2024 14:23	SY/MD	Ok,M
8	P4028-04	VL041607.D	18 Sep 2024 15:03	SY/MD	Ok,M
9	P4028-01	VL041608.D	18 Sep 2024 15:43	SY/MD	Ok,M
10	P4028-01DL	VL041609.D	18 Sep 2024 16:24	SY/MD	Not Ok
11	P4028-03	VL041610.D	18 Sep 2024 17:06	SY/MD	Ok,M
12	P4028-03DL	VL041611.D	18 Sep 2024 17:49	SY/MD	Not Ok
13	QC090324 CAN10197	VL041612.D	18 Sep 2024 18:31	SY/MD	Ok
14	QC090324 CAN10197	VL041613.D	18 Sep 2024 19:14	SY/MD	Not Ok
15	QC090424 CAN10401	VL041614.D	18 Sep 2024 19:56	SY/MD	Ok,M
16	QC090524 CAN10153	VL041615.D	18 Sep 2024 20:38	SY/MD	Ok,M
17	VIBLK	VL041616.D	18 Sep 2024 21:20	SY/MD	Ok,M
18	P4028-03DUP	VL041617.D	18 Sep 2024 22:03	SY/MD	Ok,M
19	VSTDCCC010	VL041618.D	18 Sep 2024 22:44	SY/MD	Ok,M

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Dec 19 06:11:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	68599	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	183786	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	163333	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	138451	10.172	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.496	85	115385	9.453	ppbv 100
3) Chlorodifluoromethane	1.473	51	107429	9.603	ppbv 100
4) Chloromethane	1.531	50	43215	9.049	ppbv 100
5) Vinyl Chloride	1.580	62	42849	8.905	ppbv 100
6) Bromomethane	1.667	94	20252	8.919	ppbv 100
7) Chloroethane	1.703	64	17403	9.311	ppbv 100
8) Dichlorotetrafluoroethane	1.554	85	100191	9.171	ppbv 100
9) Propene	1.483	41	43440	8.959	ppbv 100
10) Heptane	4.979	43	116969	9.391	ppbv 100
11) Trichlorofluoromethane	1.875	101	122831	9.474	ppbv 100
12) 1,1,2-Trichlorotrifluo...	2.137	101	91977	9.327	ppbv 100
13) Ethanol	1.719	45	2484	6.161	ppbv 100
14) Bromoethene	1.781	108	32528	9.770	ppbv 100
15) Acetone	1.832	43	100229	7.509	ppbv 100
16) 1,3-Butadiene	1.606	39	46989	8.940	ppbv 100
17) tert-Butyl alcohol	2.036	59	125757	9.497	ppbv 100
18) 1,1-Dichloroethene	2.033	96	38775	9.379	ppbv 100
19) Isopropyl Alcohol	1.884	45	59026	7.370	ppbv 100
20) Methylene Chloride	2.059	84	32734	8.601	ppbv 100
21) Allyl Chloride	2.095	41	69406	9.588	ppbv 100
22) trans-1,2-Dichloroethene	2.337	96	43898	9.276	ppbv 100
23) Vinyl Acetate	2.457	43	54227	9.350	ppbv 100
24) 1,1-Dichloroethane	2.405	63	89912	9.386	ppbv 100
25) Ethyl Acetate	2.833	43	235305	9.432	ppbv 100
26) Hexane	2.823	57	89385	9.486	ppbv 100
27) Carbon Disulfide	2.150	76	92329	10.873	ppbv 100
28) Methyl tert-Butyl Ether	2.438	73	75330	9.854	ppbv 100
29) Chloroform	2.846	83	135099	9.408	ppbv 100
30) Cyclohexane	3.855	84	75156	9.374	ppbv 100
31) cis-1,2-Dichloroethene	2.719	61	91276	9.374	ppbv 100
32) 1,1,1-Trichloroethane	3.363	97	139102	9.733	ppbv 100
34) 2-Butanone	2.554	43	135331	9.153	ppbv 100
35) Carbon Tetrachloride	3.758	117	138952	10.650	ppbv 100
36) Benzene	3.655	78	179134	9.423	ppbv 100
37) 1,2-Dichloroethane	3.215	62	111770	9.449	ppbv 100
38) Trichloroethene	4.545	130	71297	8.907	ppbv 100
39) 1,2-Dichloropropane	4.309	63	64789	9.423	ppbv 100
40) 1,4-Dioxane	4.580	88	30658	9.128	ppbv # 100
41) Tetrahydrofuran	3.049	42	78480	9.474	ppbv 100
42) Bromodichloromethane	4.483	83	142819	10.494	ppbv 100
43) Methyl Methacrylate	4.878	69	72578	10.020	ppbv 100
44) 2,2,4-Trimethylpentane	4.639	57	307748	9.479	ppbv 100
45) t-1,3-Dichloropropene	6.412	75	77752	10.378	ppbv 100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

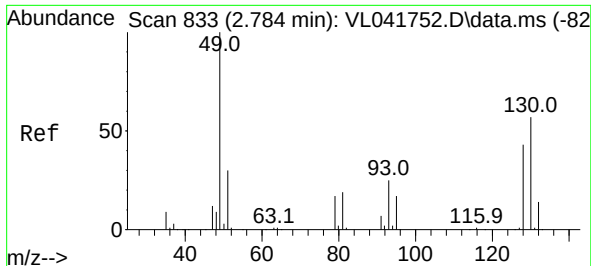
Quant Time: Dec 19 06:11:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	97992	10.303	ppbv	100
47) 1,1,2-Trichloroethane	6.577	97	67550	9.406	ppbv	100
48) Dibromochloromethane	7.383	129	108899	11.105	ppbv	100
49) Bromoform	9.481	173	91587	11.410	ppbv	100
50) 4-Methyl-2-Pentanone	5.749	43	194838	9.678	ppbv	100
51) 2-Hexanone	7.432	43	157473	9.650	ppbv	100
52) Tetrachloroethene	8.222	164	62989	8.901	ppbv	100
53) Toluene	6.930	91	206354	9.574	ppbv	100
54) 1,2-Dibromoethane	7.649	107	94016	9.501	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	86831	10.027	ppbv	100
57) Chlorobenzene	8.921	112	155349	9.295	ppbv	100
58) Ethyl Benzene	9.354	91	289734	9.853	ppbv	100
59) m/p-Xylene	9.549	91	229713	9.713	ppbv #	100
60) o-Xylene	9.963	91	232101	9.789	ppbv	100
61) Styrene	9.869	104	110041	10.733	ppbv	100
62) Isopropylbenzene	10.539	105	348684	9.788	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	137363	9.255	ppbv	100
64) n-propylbenzene	10.989	120	87360	9.700	ppbv	100
65) tert-Butylbenzene	11.529	119	309036	9.615	ppbv	100
66) Benzyl Chloride	11.614	91	31039	10.954	ppbv	100
67) sec-Butylbenzene	11.769	105	430810	9.687	ppbv	100
69) p-Isopropyltoluene	11.924	119	363072	9.906	ppbv	100
70) n-Butylbenzene	12.280	91	358993	10.137	ppbv	100
71) 2-Chlorotoluene	10.902	91	264002	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	282698	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	239261	10.304	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	255780	10.244	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	151752	9.532	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	152099	9.671	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	141338	9.227	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	95751	8.431	ppbv	100
79) Naphthalene	13.514	128	205511	11.812	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	106311	19.755	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	101461	10.672	ppbv	100

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

Quant Time: Dec 19 06:11:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSV0A_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

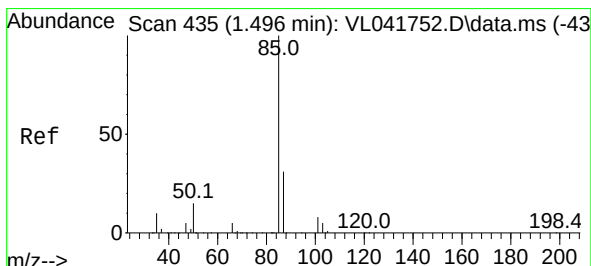
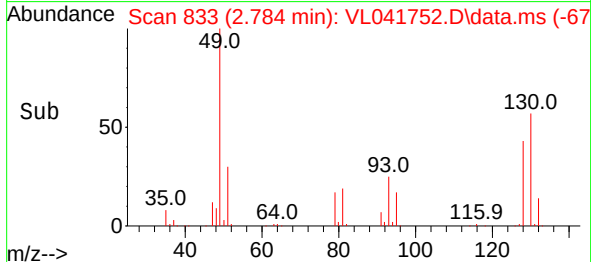
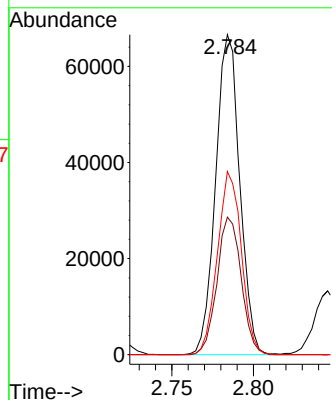
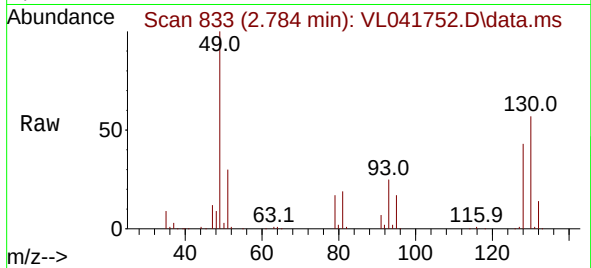




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

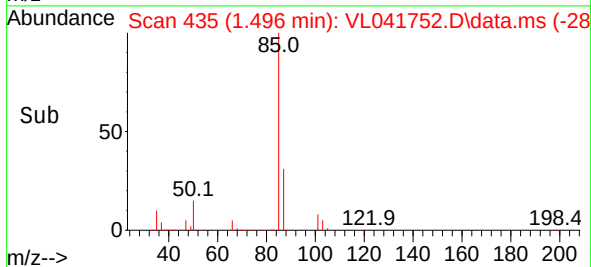
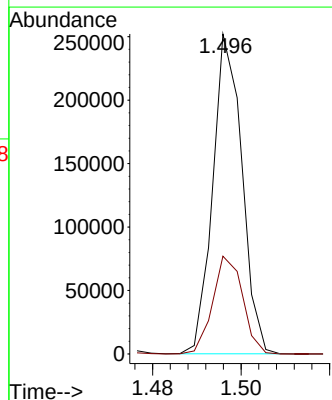
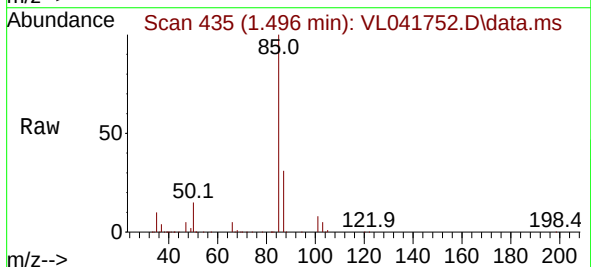
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

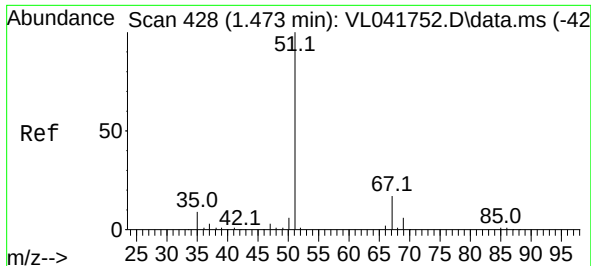
Tgt Ion: 49 Resp: 68599
 Ion Ratio Lower Upper
 49 100
 128 43.1 21.6 64.6
 130 56.7 28.3 85.0



#2
 Dichlorodifluoromethane
 Concen: 9.453 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Tgt Ion: 85 Resp: 115385
 Ion Ratio Lower Upper
 85 100
 87 30.6 24.5 36.7

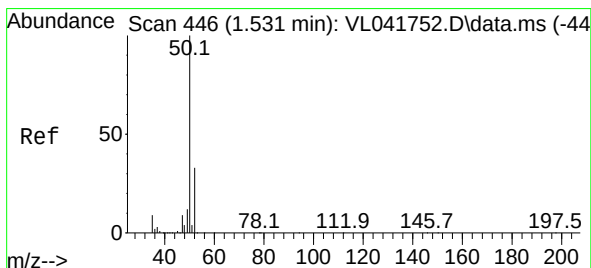
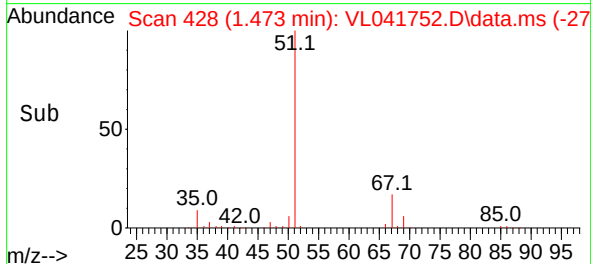
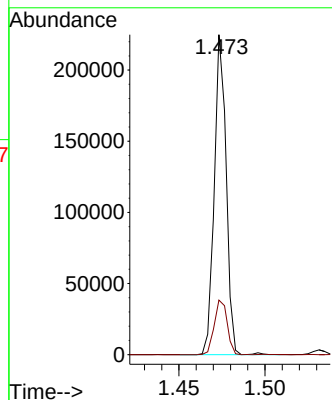
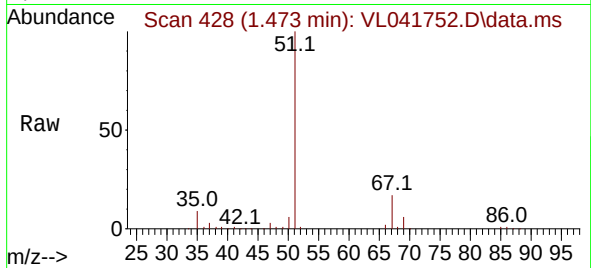




#3
Chlorodifluoromethane
Concen: 9.603 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

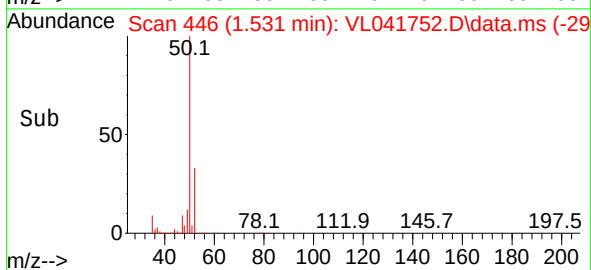
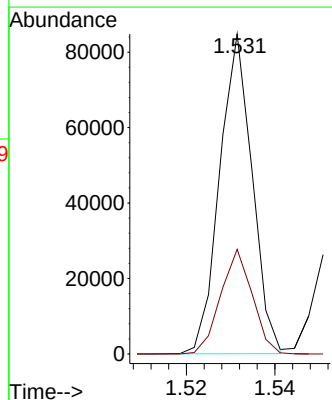
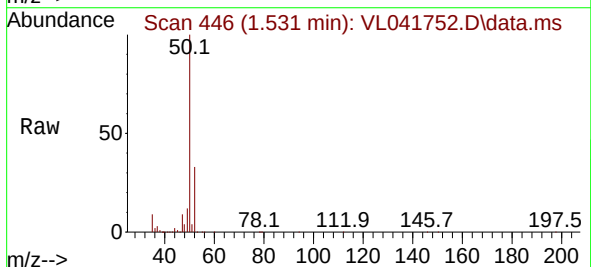
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

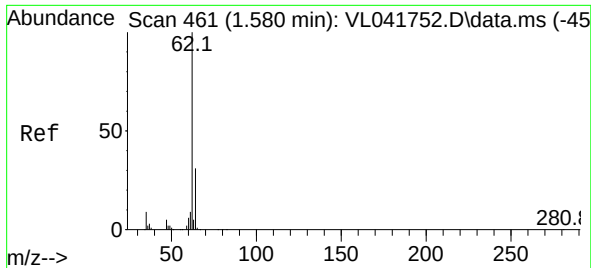
Tgt Ion: 51 Resp: 107429
Ion Ratio Lower Upper
51 100
67 18.7 15.0 22.4



#4
Chloromethane
Concen: 9.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 50 Resp: 43215
Ion Ratio Lower Upper
50 100
52 32.7 26.2 39.2

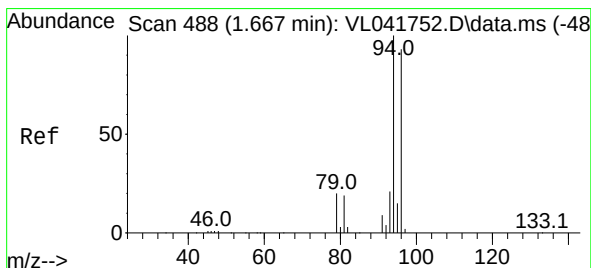
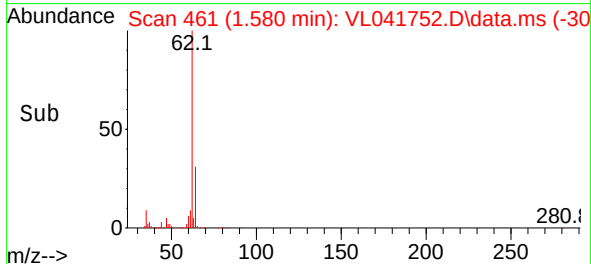
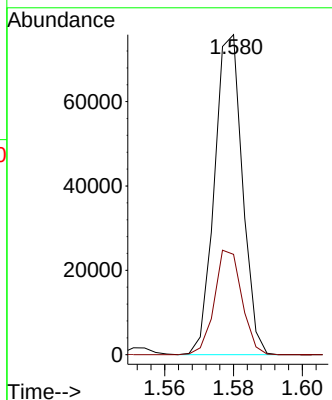
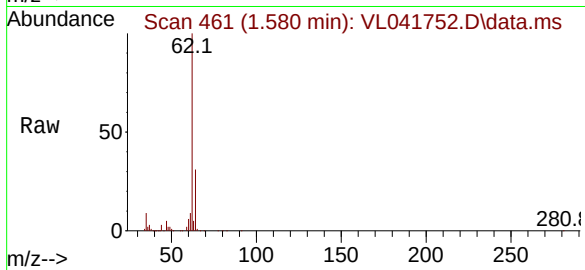




#5
 Vinyl Chloride
 Concen: 8.905 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

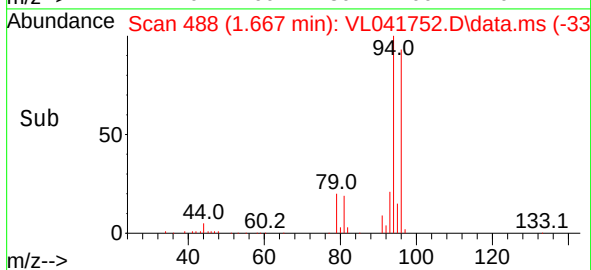
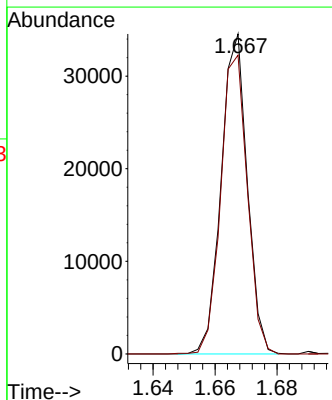
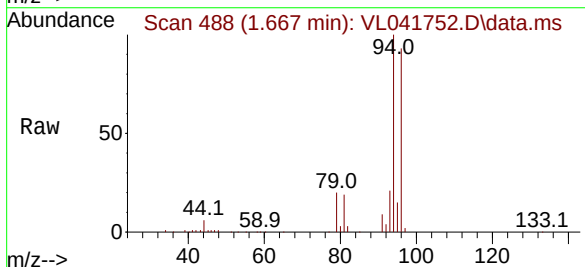
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

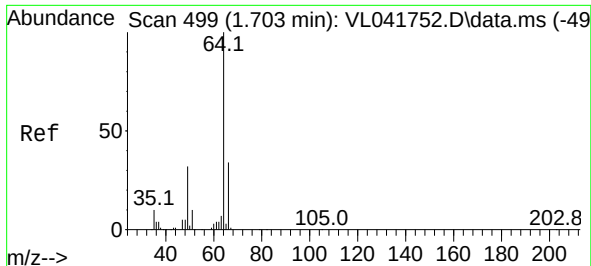
Tgt Ion: 62 Resp: 42849
 Ion Ratio Lower Upper
 62 100
 64 31.4 25.1 37.7



#6
 Bromomethane
 Concen: 8.919 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Tgt Ion: 94 Resp: 20252
 Ion Ratio Lower Upper
 94 100
 96 93.4 74.7 112.1

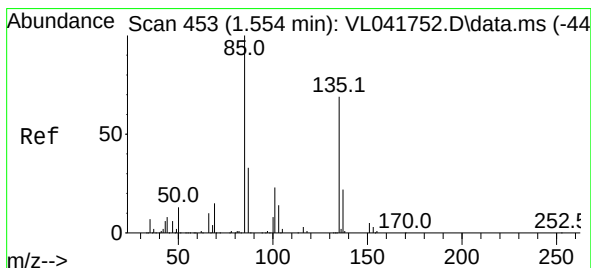
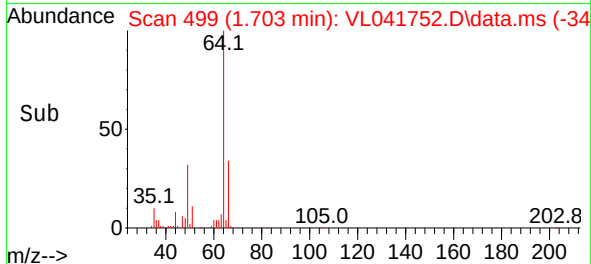
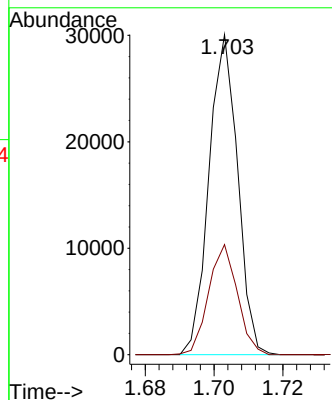
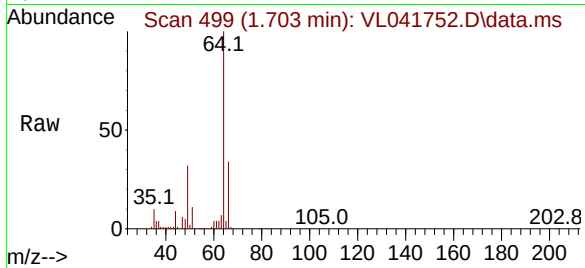




#7
Chloroethane
Concen: 9.311 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

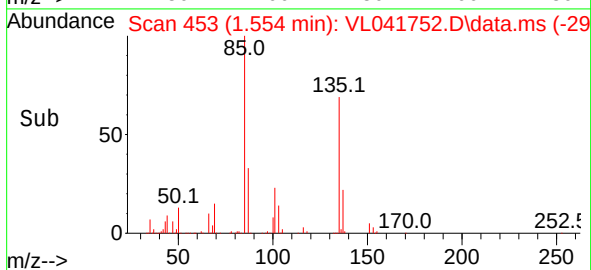
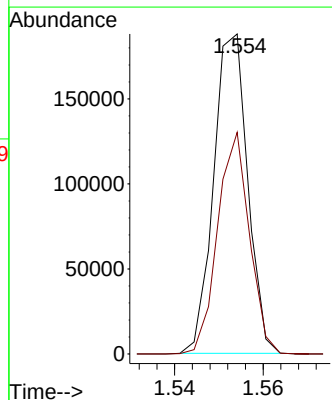
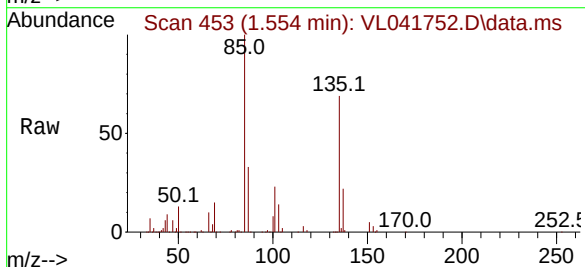
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

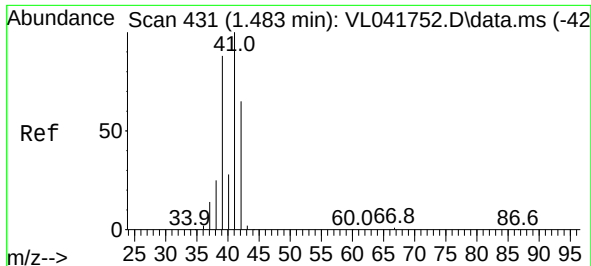
Tgt Ion: 64 Resp: 17403
Ion Ratio Lower Upper
64 100
66 34.4 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 9.171 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 85 Resp: 100191
Ion Ratio Lower Upper
85 100
135 64.9 51.9 77.9





#9

Propene

Concen: 8.959 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

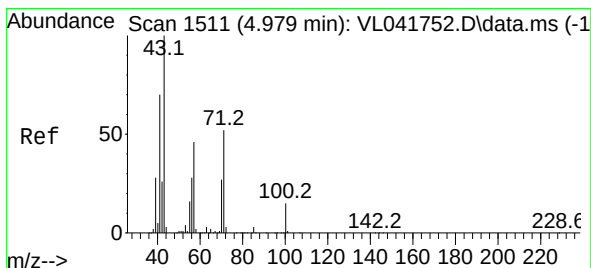
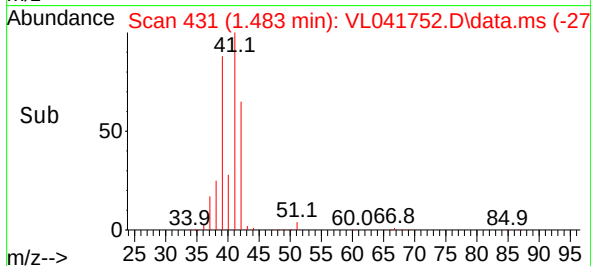
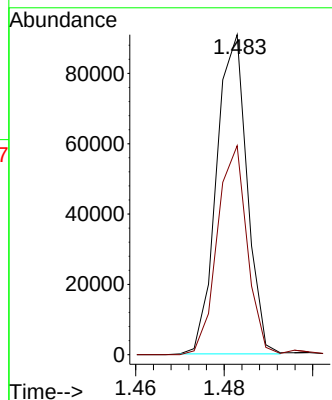
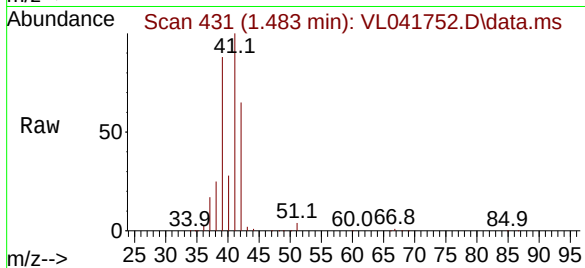
VSTDICCC010

Tgt Ion: 41 Resp: 43440

Ion Ratio Lower Upper

41 100

42 65.5 52.4 78.6



#10

Heptane

Concen: 9.391 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL041752.D

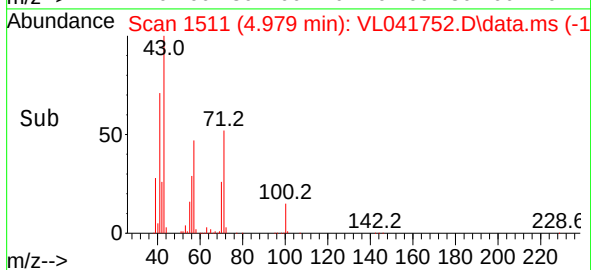
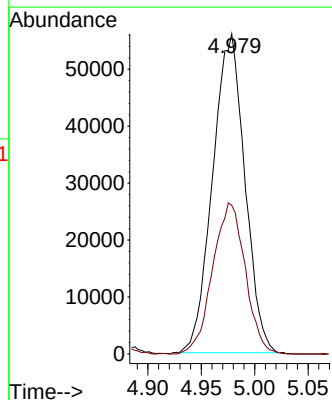
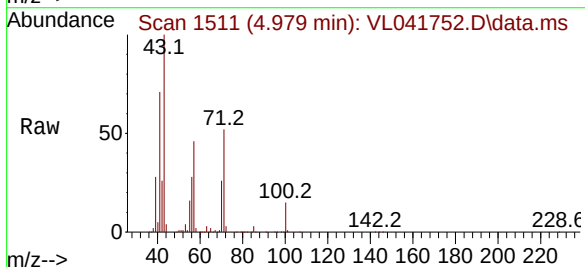
Acq: 16 Dec 2024 13:30

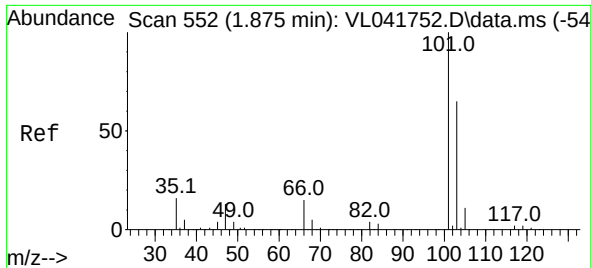
Tgt Ion: 43 Resp: 116969

Ion Ratio Lower Upper

43 100

57 48.1 38.5 57.7

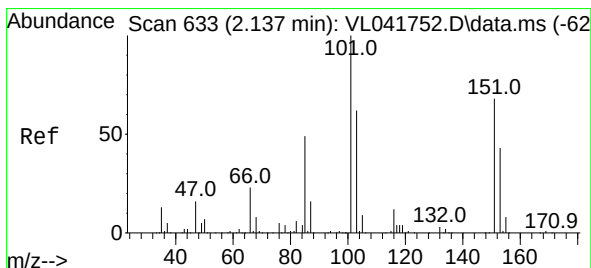
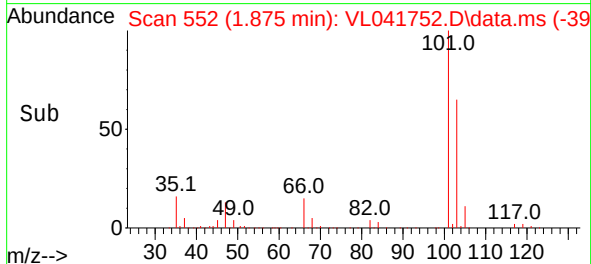
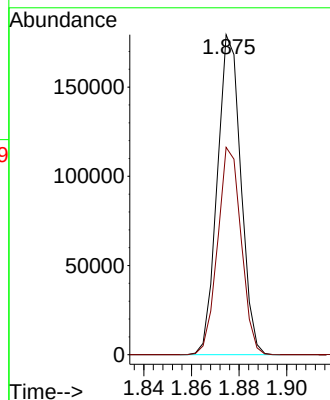
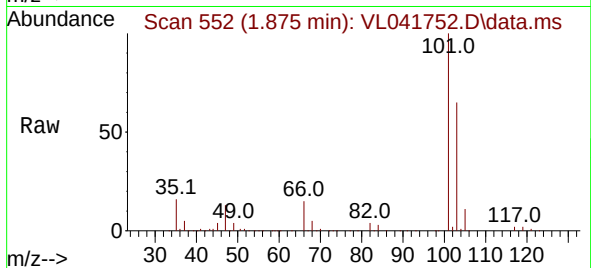




#11
 Trichlorofluoromethane
 Concen: 9.474 ppbv
 RT: 1.875 min Scan# 552
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

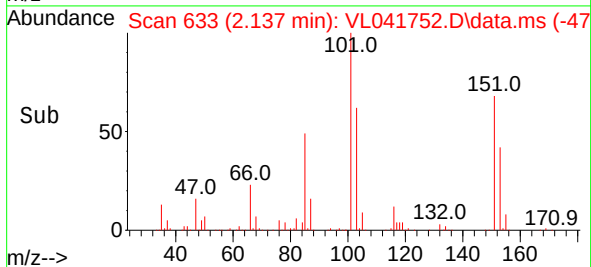
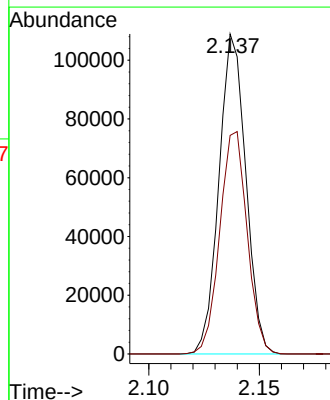
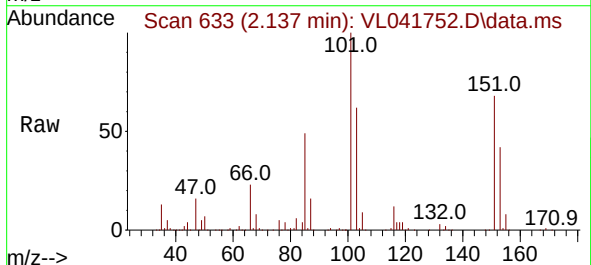
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

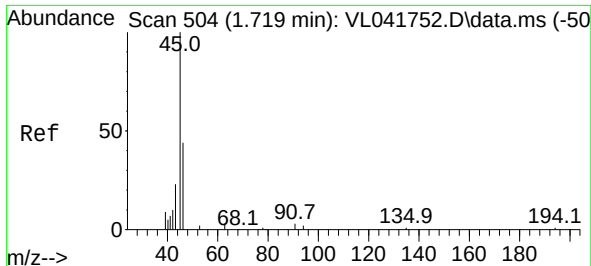
Tgt Ion:101 Resp: 122831
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.327 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Tgt Ion:101 Resp: 91977
 Ion Ratio Lower Upper
 101 100
 151 71.0 56.8 85.2





#13

Ethanol

Concen: 6.161 ppbv

RT: 1.719 min Scan# 504

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

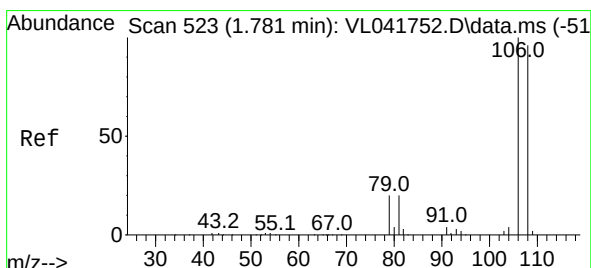
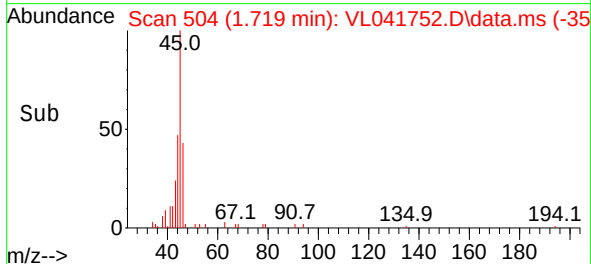
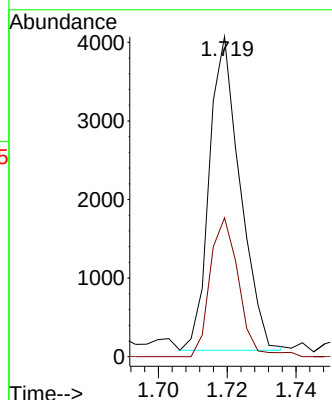
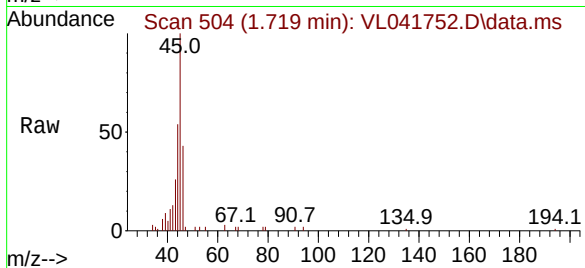
VSTDICCC010

Tgt Ion: 45 Resp: 2484

Ion Ratio Lower Upper

45 100

46 41.1 16.4 65.8



#14

Bromoethene

Concen: 9.770 ppbv

RT: 1.781 min Scan# 523

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

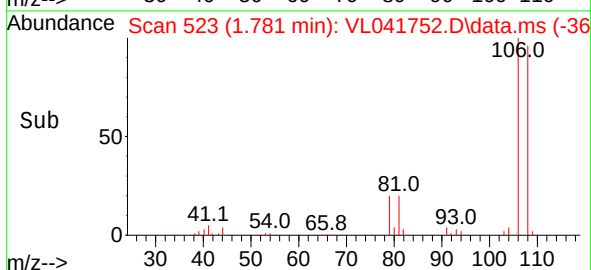
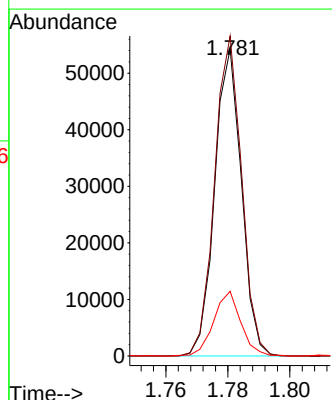
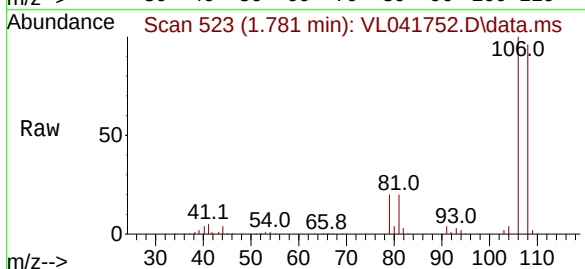
Tgt Ion: 108 Resp: 32528

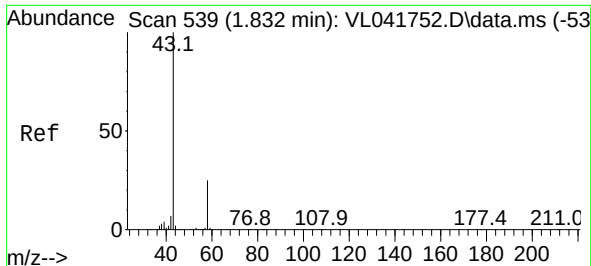
Ion Ratio Lower Upper

108 100

106 105.1 84.1 126.1

79 21.7 17.4 26.0

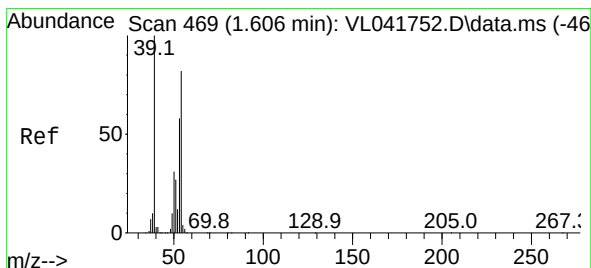
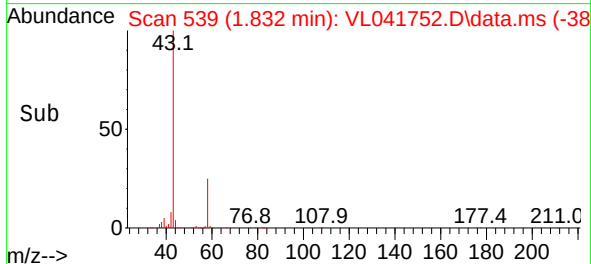
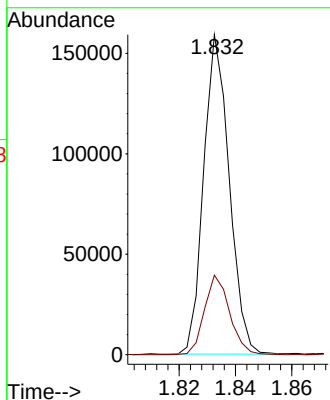
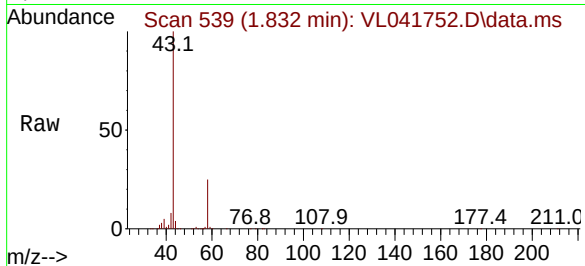




#15
Acetone
Concen: 7.509 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

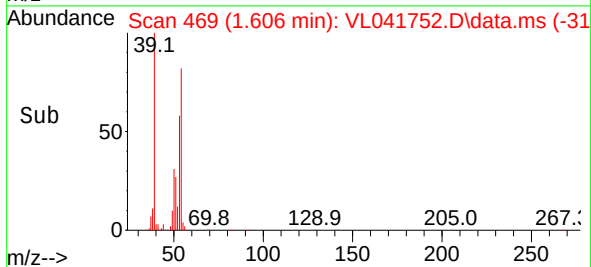
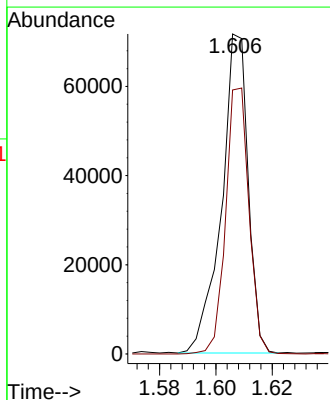
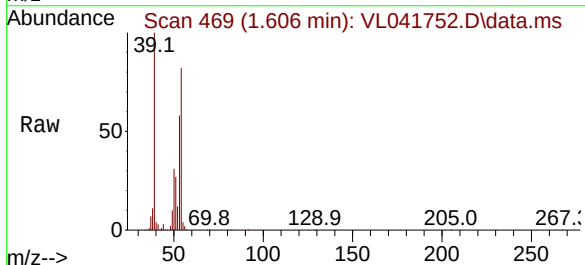
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

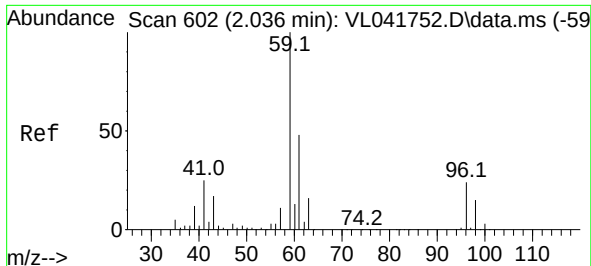
Tgt Ion: 43 Resp: 100229
Ion Ratio Lower Upper
43 100
58 24.6 19.7 29.5



#16
1,3-Butadiene
Concen: 8.940 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 39 Resp: 46989
Ion Ratio Lower Upper
39 100
54 73.0 58.4 87.6





#17

tert-Butyl alcohol

Concen: 9.497 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

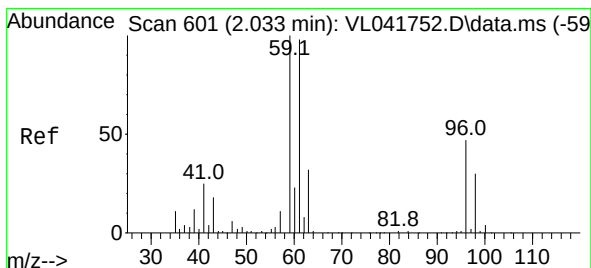
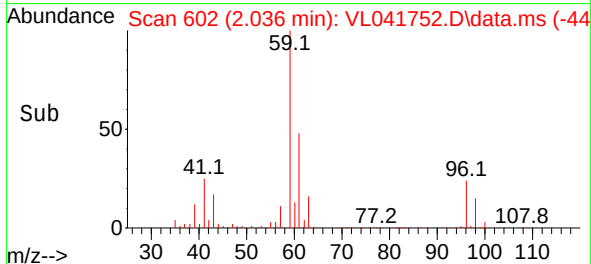
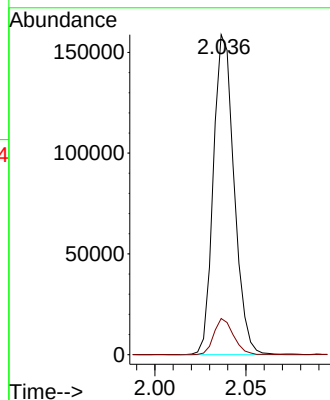
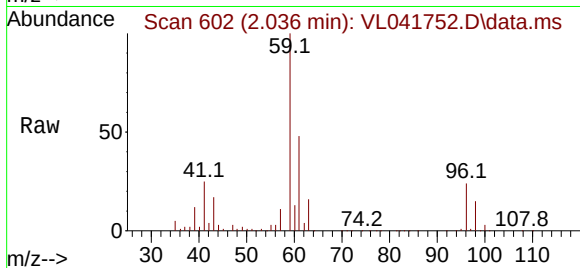
VSTDICCC010

Tgt Ion: 59 Resp: 125757

Ion Ratio Lower Upper

59 100

57 10.8 8.6 13.0



#18

1,1-Dichloroethene

Concen: 9.379 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

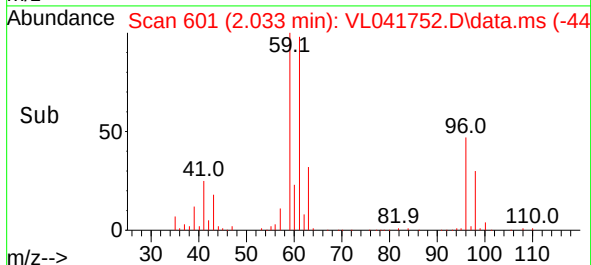
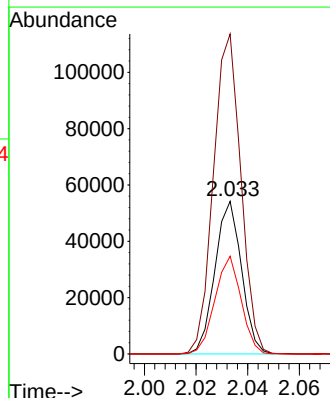
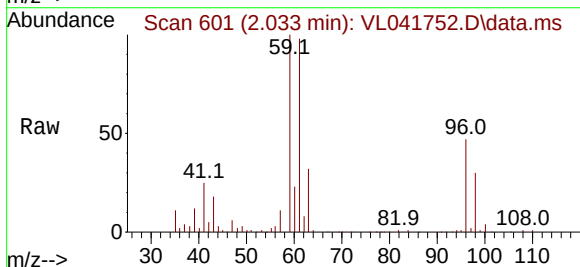
Tgt Ion: 96 Resp: 38775

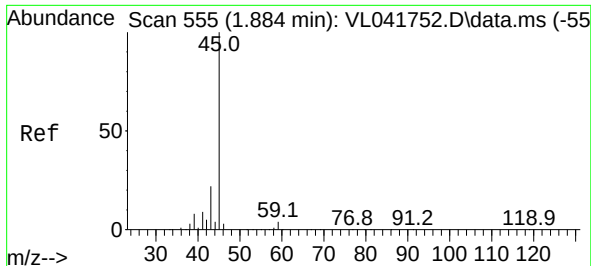
Ion Ratio Lower Upper

96 100

61 209.6 167.7 251.5

98 63.9 51.1 76.7





#19

Isopropyl Alcohol

Concen: 7.370 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

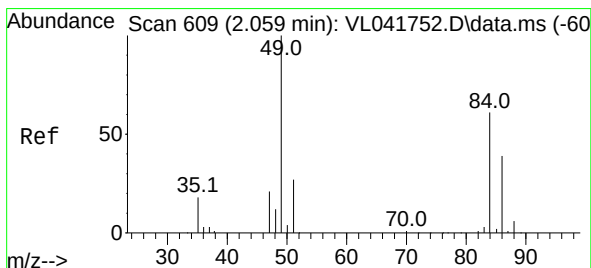
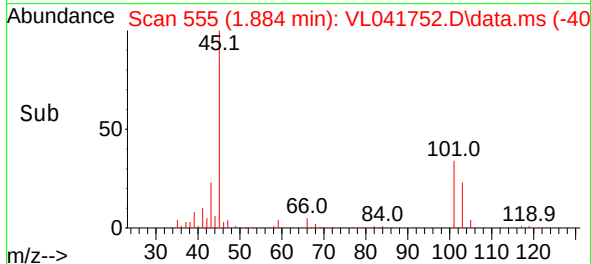
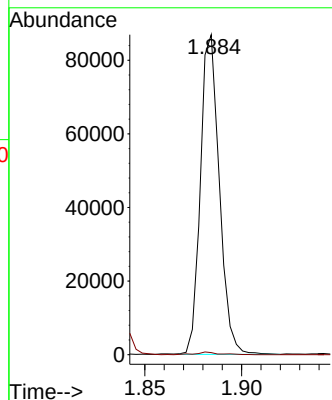
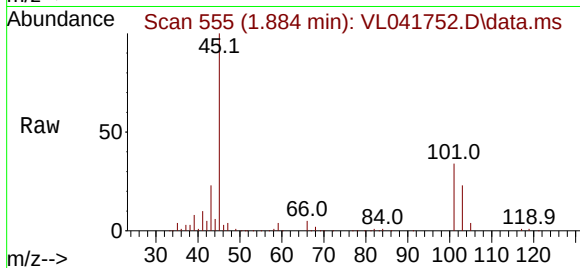
VSTDICCC010

Tgt Ion: 45 Resp: 59026

Ion Ratio Lower Upper

45 100

58 41.6 33.3 49.9



#20

Methylene Chloride

Concen: 8.601 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 84 Resp: 32734

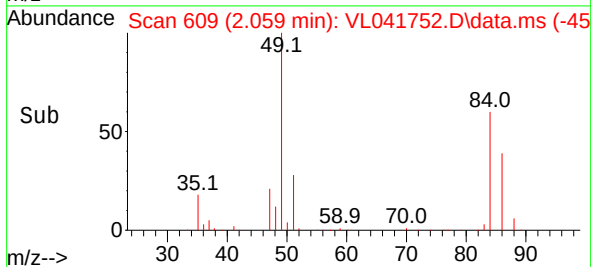
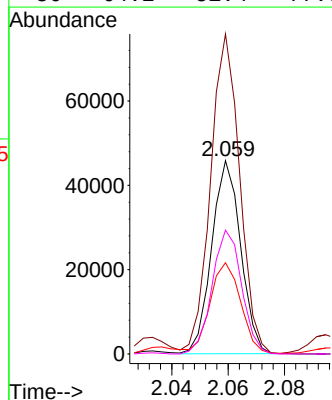
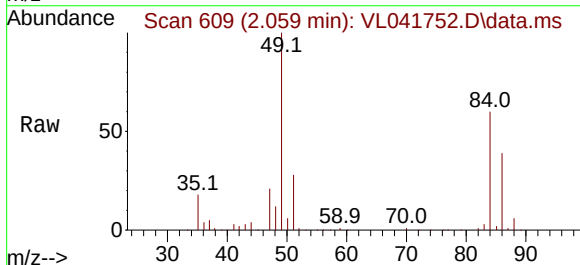
Ion Ratio Lower Upper

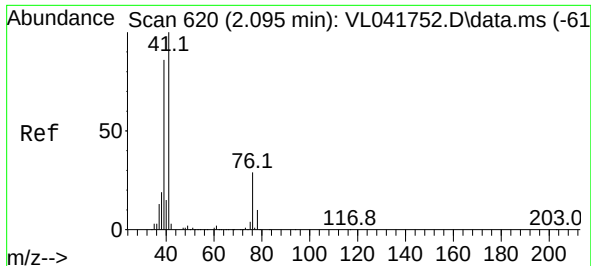
84 100

49 165.7 132.6 198.8

51 47.0 37.6 56.4

86 64.2 51.4 77.0





#21

Allyl Chloride

Concen: 9.588 ppbv

RT: 2.095 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

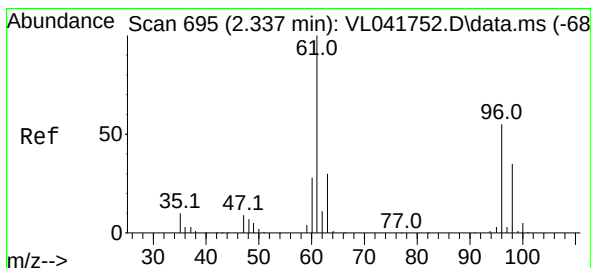
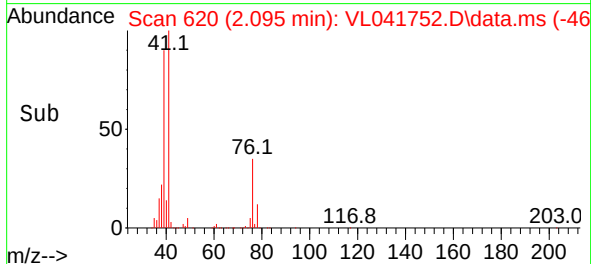
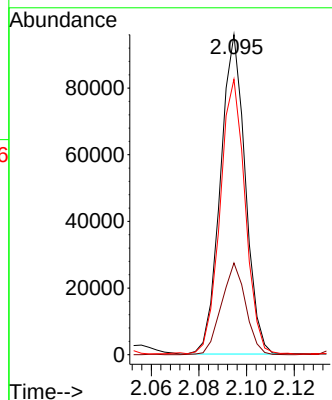
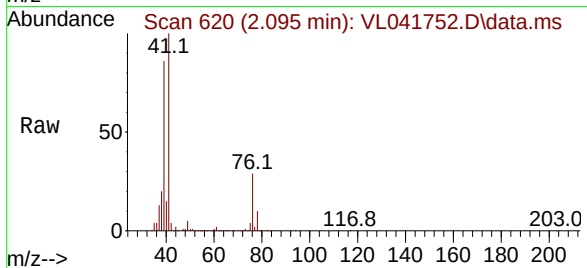
Tgt Ion: 41 Resp: 69406

Ion Ratio Lower Upper

41 100

76 27.9 22.3 33.5

39 86.5 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 9.276 ppbv

RT: 2.337 min Scan# 695

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

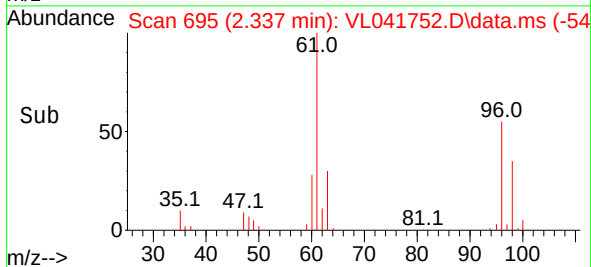
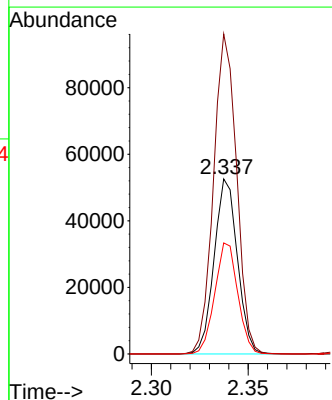
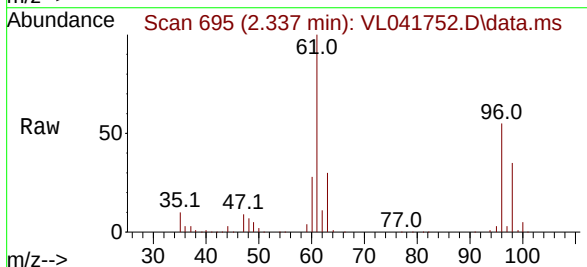
Tgt Ion: 96 Resp: 43898

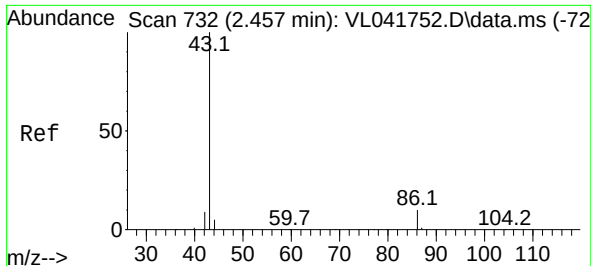
Ion Ratio Lower Upper

96 100

61 182.9 146.3 219.5

98 63.5 50.8 76.2

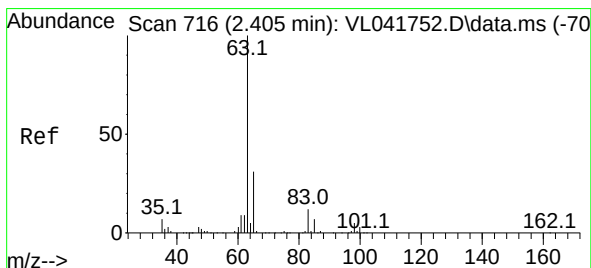
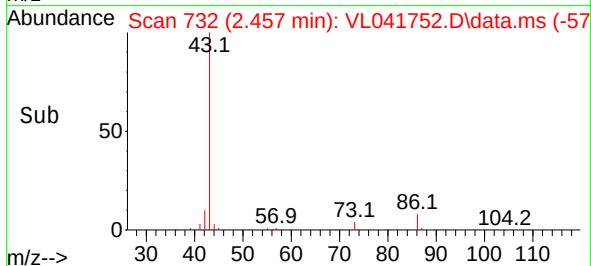
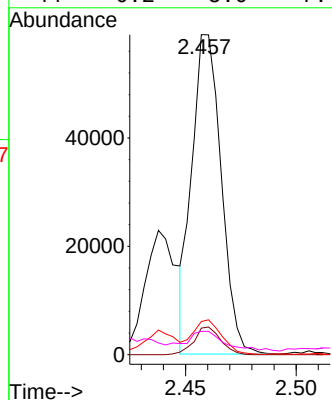
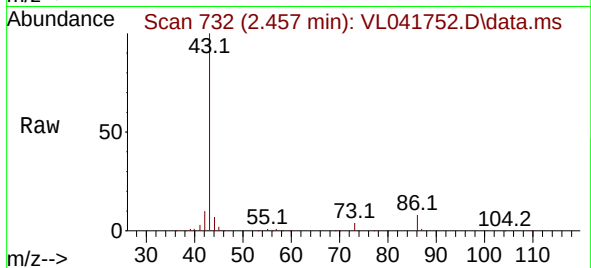




#23
 Vinyl Acetate
 Concen: 9.350 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

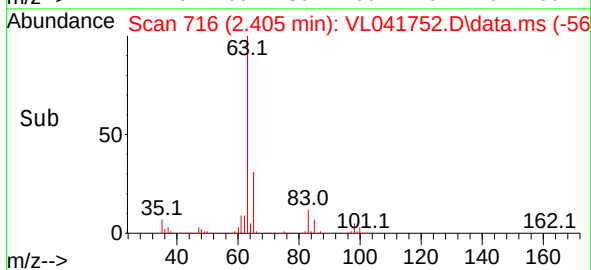
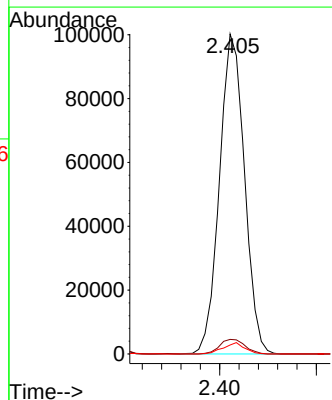
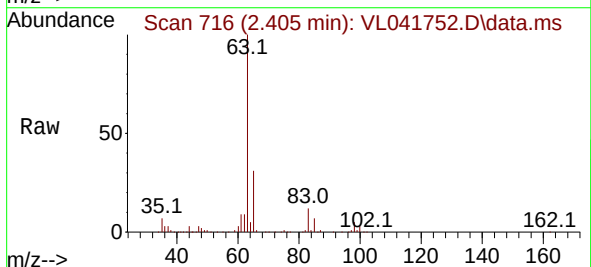
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

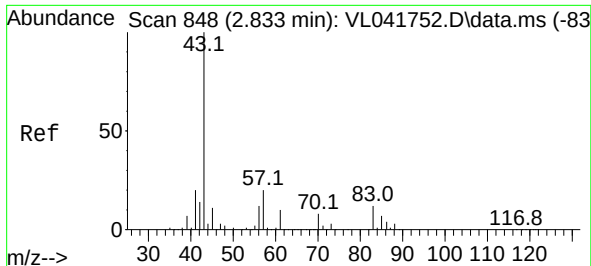
Tgt Ion:	43	Resp:	54227
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.6	10.0
42	10.2	8.2	12.2
44	6.2	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 9.386 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Tgt Ion:	63	Resp:	89912
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.8	1.4	4.2

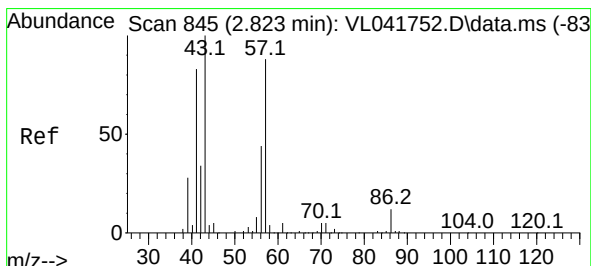
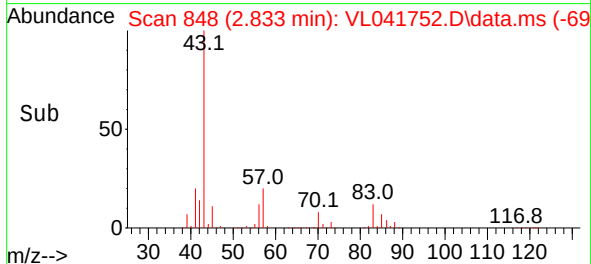
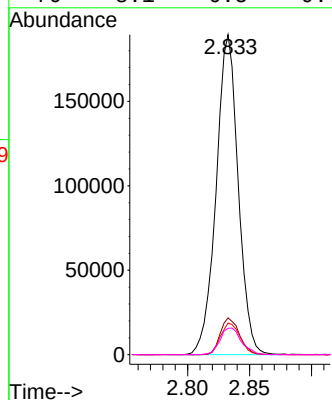
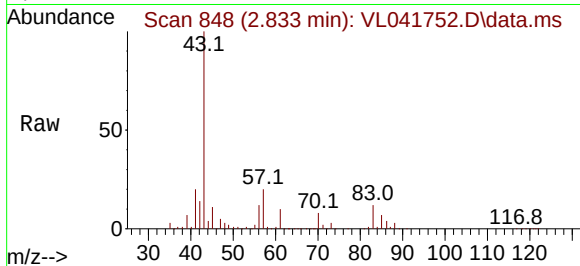




#25
Ethyl Acetate
Concen: 9.432 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

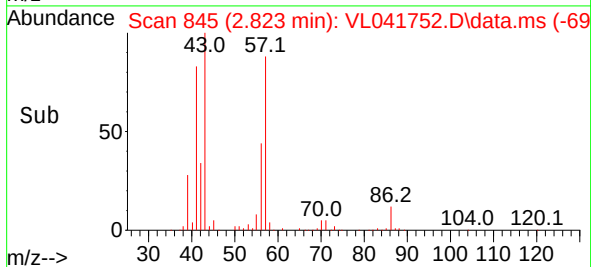
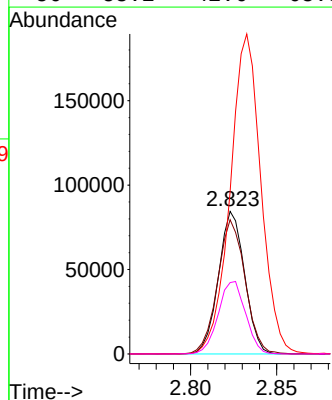
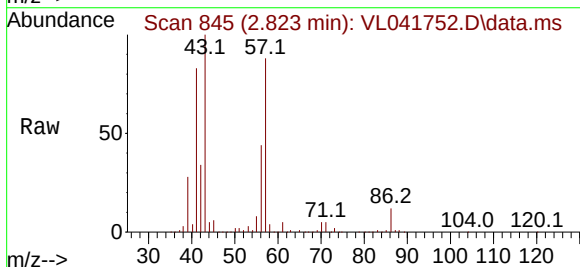
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

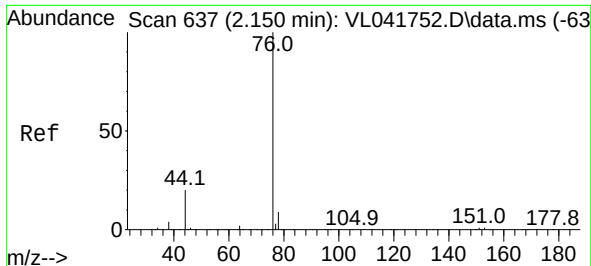
Tgt Ion:	43	Resp:	235305
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	8.8	7.0	10.6
70	8.1	6.5	9.7



#26
Hexane
Concen: 9.486 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:	57	Resp:	89385
Ion	Ratio	Lower	Upper
57	100		
41	99.5	79.6	119.4
43	263.8	211.0	316.6
56	53.2	42.6	63.8





#27

Carbon Disulfide

Concen: 10.873 ppbv

RT: 2.150 min Scan# 637

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

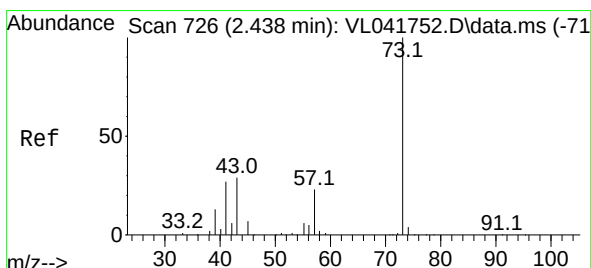
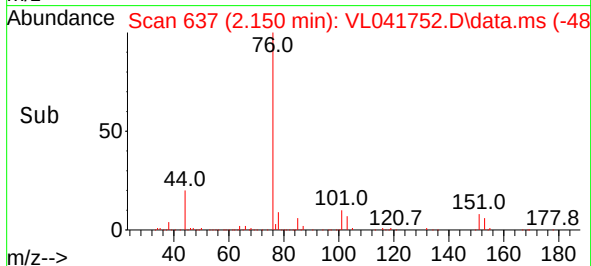
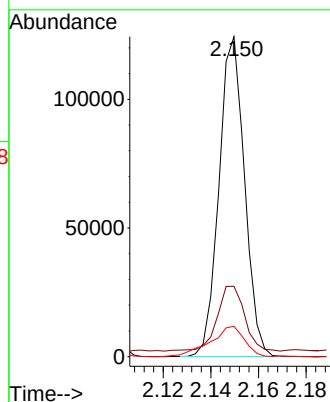
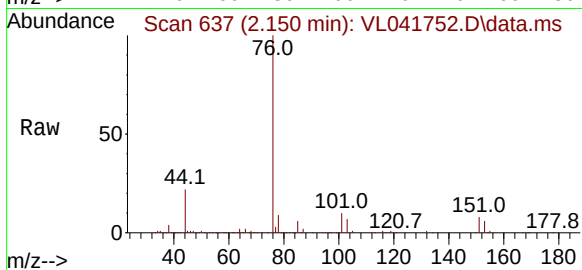
Tgt Ion: 76 Resp: 92329

Ion Ratio Lower Upper

76 100

44 22.0 17.6 26.4

78 12.8 10.2 15.4



#28

Methyl tert-Butyl Ether

Concen: 9.854 ppbv

RT: 2.438 min Scan# 726

Delta R.T. 0.000 min

Lab File: VL041752.D

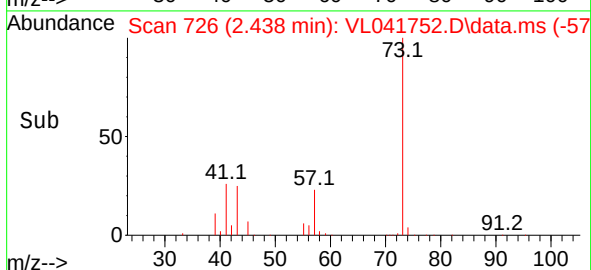
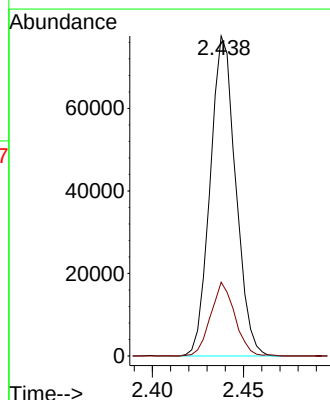
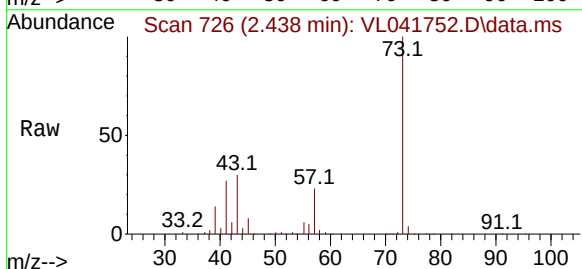
Acq: 16 Dec 2024 13:30

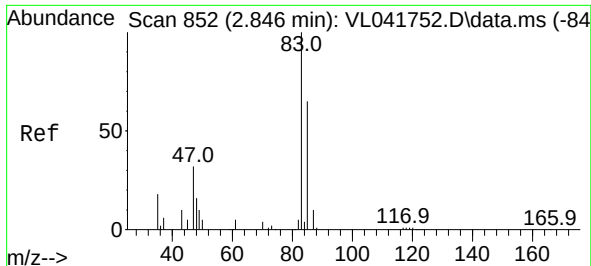
Tgt Ion: 73 Resp: 75330

Ion Ratio Lower Upper

73 100

57 22.0 17.6 26.4





#29

Chloroform

Concen: 9.408 ppbv

RT: 2.846 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

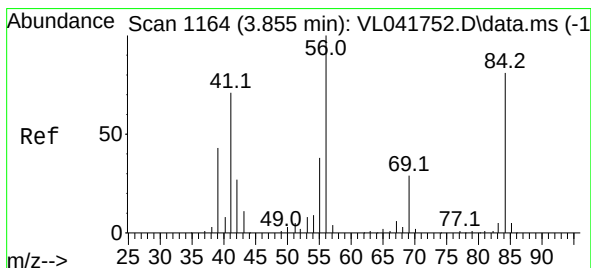
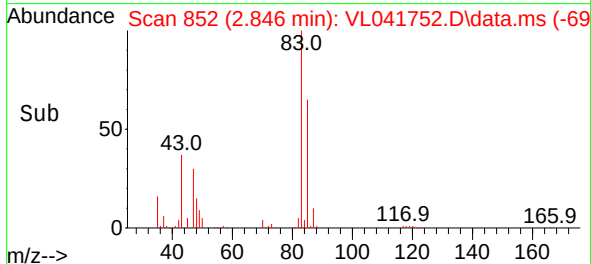
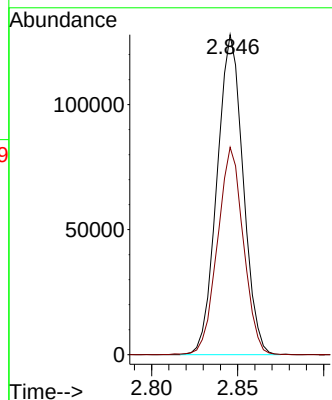
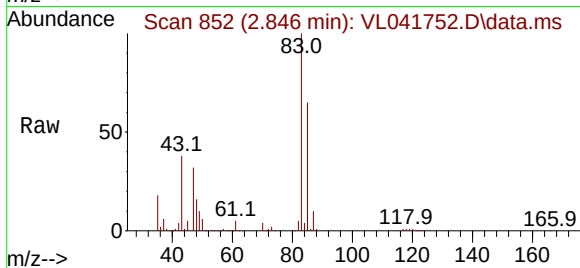
VSTDICCC010

Tgt Ion: 83 Resp: 135099

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6



#30

Cyclohexane

Concen: 9.374 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

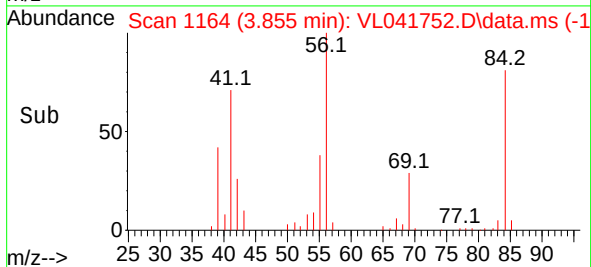
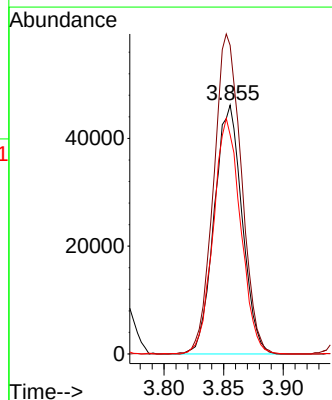
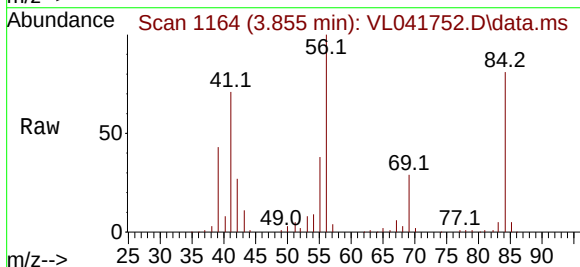
Tgt Ion: 84 Resp: 75156

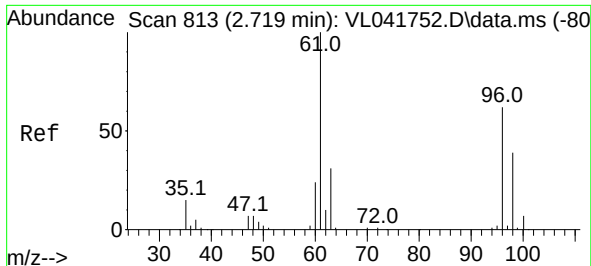
Ion Ratio Lower Upper

84 100

56 127.9 102.3 153.5

41 92.5 74.0 111.0





#31

cis-1,2-Dichloroethene

Concen: 9.374 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

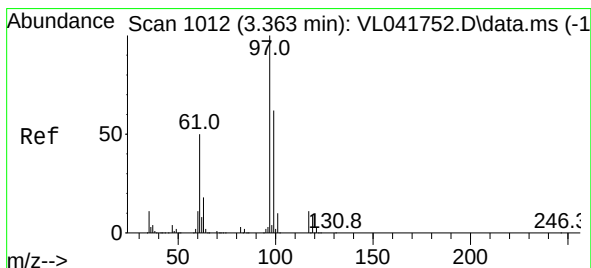
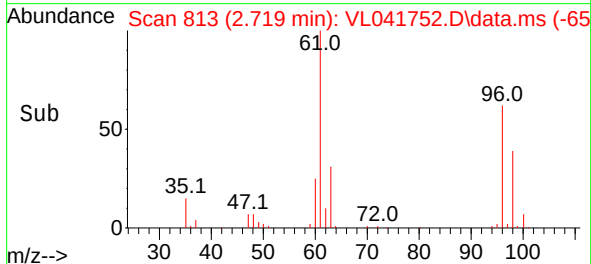
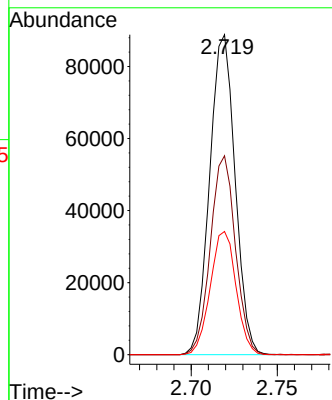
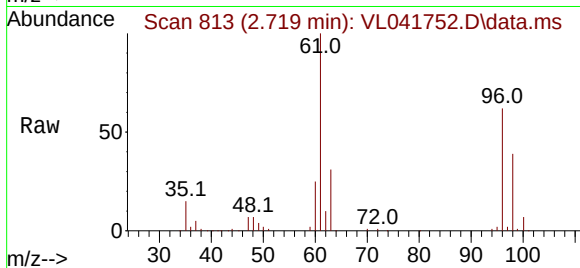
Tgt Ion: 61 Resp: 91276

Ion Ratio Lower Upper

61 100

96 62.1 49.7 74.5

98 38.5 30.8 46.2



#32

1,1,1-Trichloroethane

Concen: 9.733 ppbv

RT: 3.363 min Scan# 1012

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

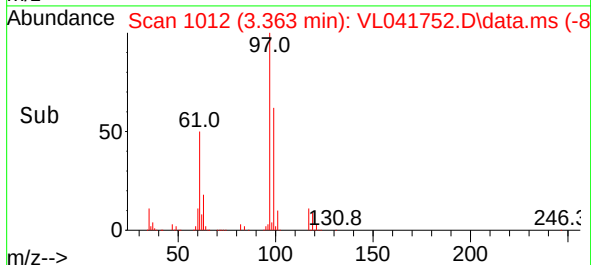
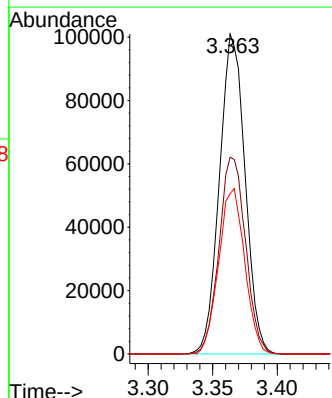
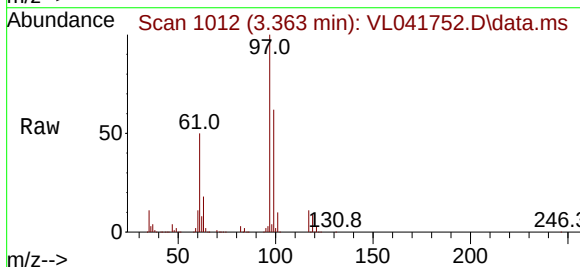
Tgt Ion: 97 Resp: 139102

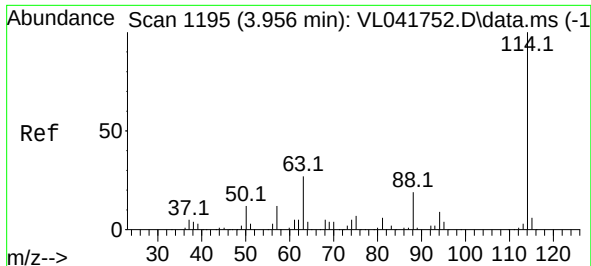
Ion Ratio Lower Upper

97 100

99 63.7 51.0 76.4

61 52.7 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

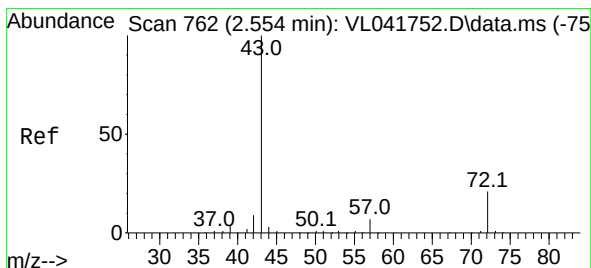
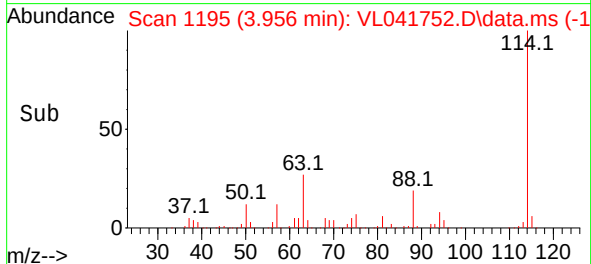
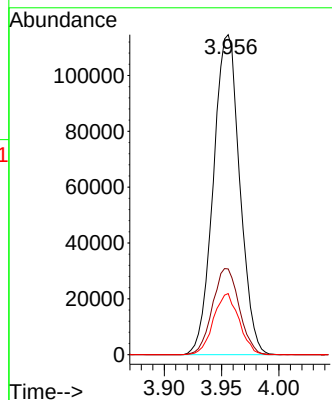
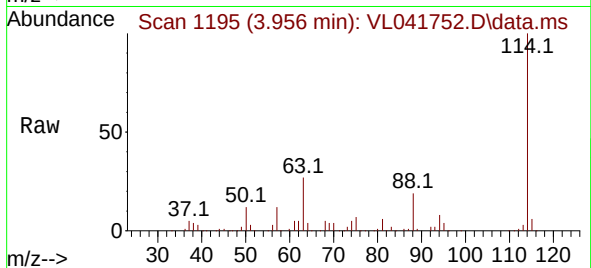
Tgt Ion:114 Resp: 183786

Ion Ratio Lower Upper

114 100

63 27.3 21.8 32.8

88 18.5 14.8 22.2



#34

2-Butanone

Concen: 9.153 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.000 min

Lab File: VL041752.D

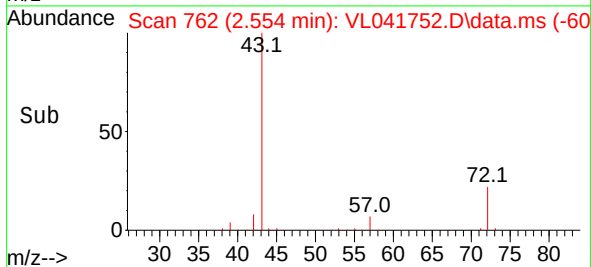
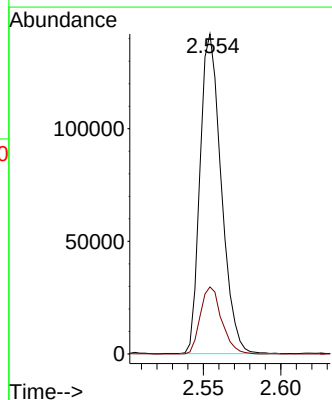
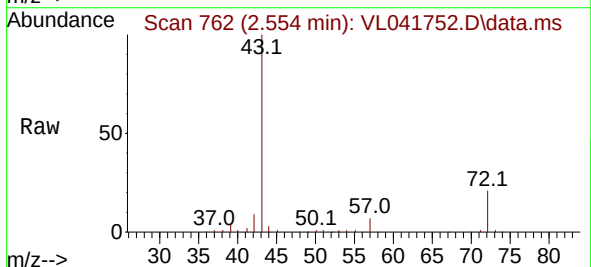
Acq: 16 Dec 2024 13:30

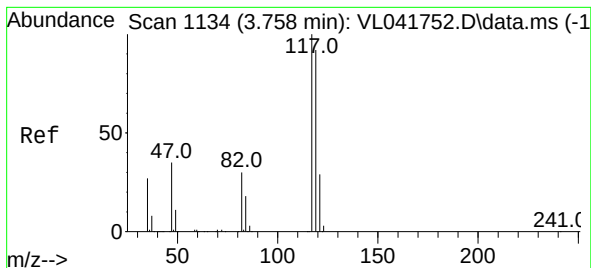
Tgt Ion: 43 Resp: 135331

Ion Ratio Lower Upper

43 100

72 21.0 16.8 25.2





#35

Carbon Tetrachloride

Concen: 10.650 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

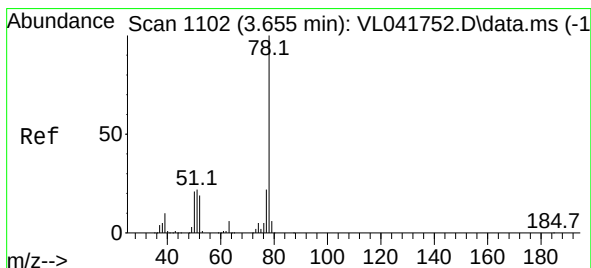
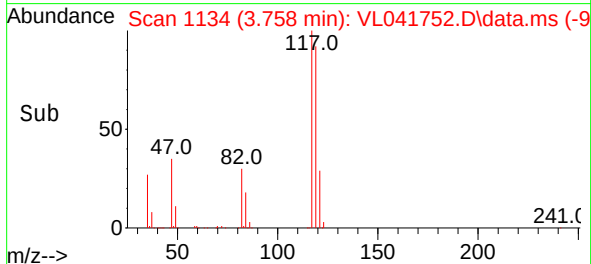
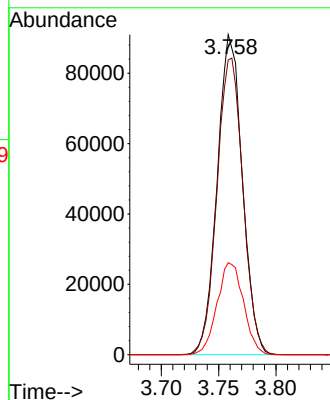
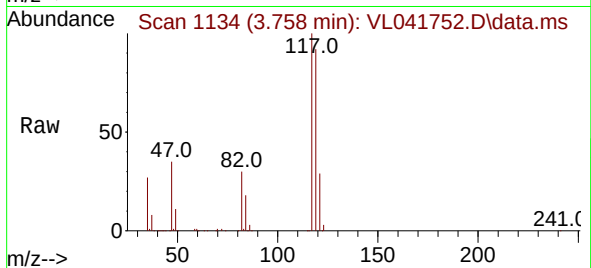
Tgt Ion:117 Resp: 138952

Ion Ratio Lower Upper

117 100

119 92.1 73.7 110.5

121 28.7 23.0 34.4



#36

Benzene

Concen: 9.423 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

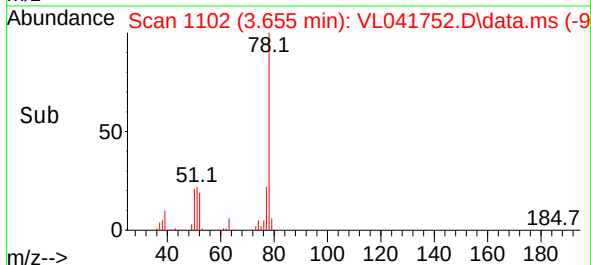
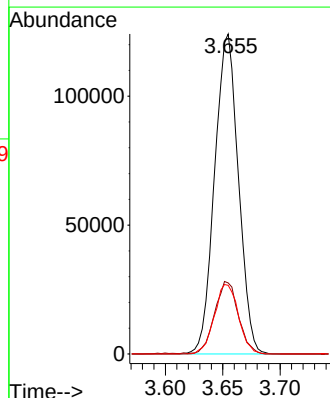
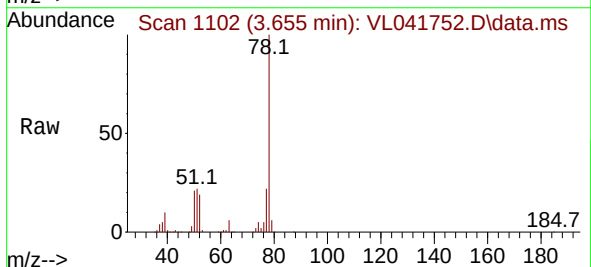
Tgt Ion: 78 Resp: 179134

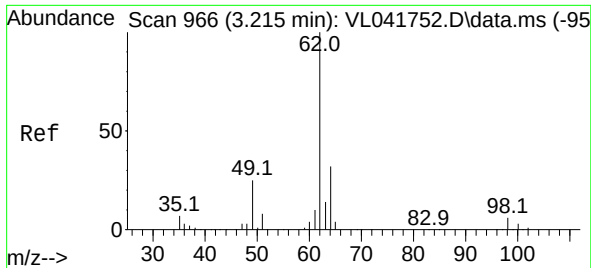
Ion Ratio Lower Upper

78 100

77 22.2 17.8 26.6

50 21.5 17.2 25.8

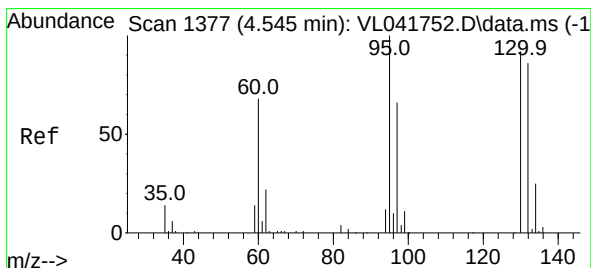
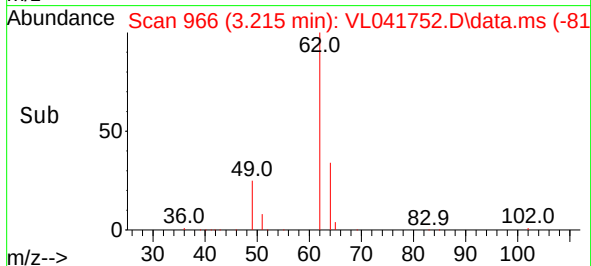
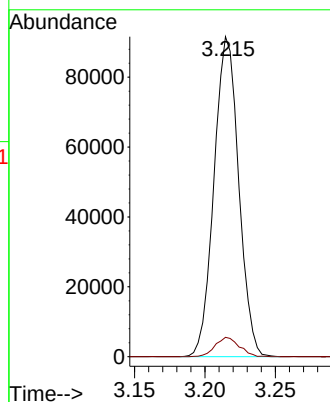
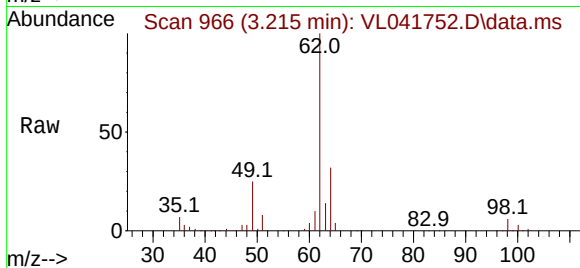




#37
1,2-Dichloroethane
Concen: 9.449 ppbv
RT: 3.215 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

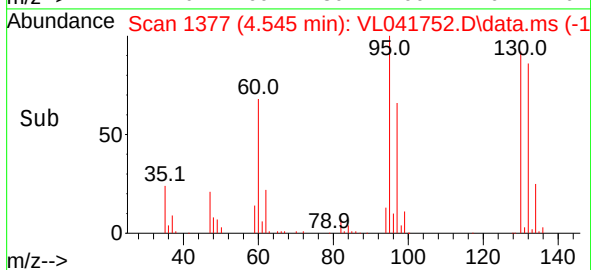
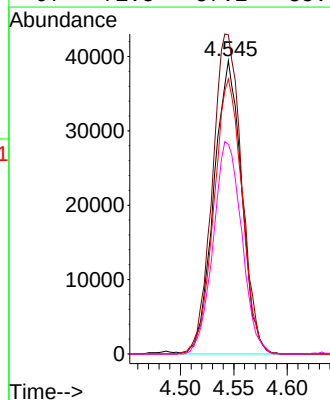
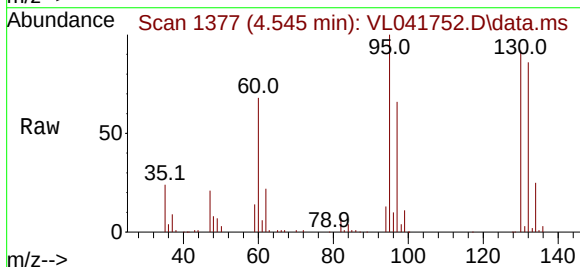
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

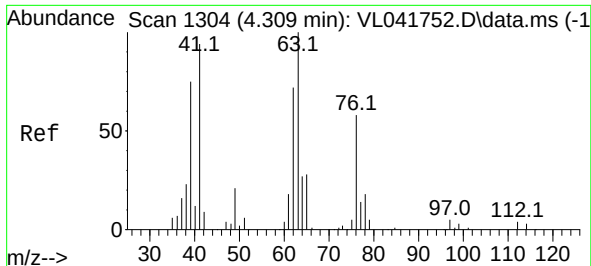
Tgt Ion: 62 Resp: 111770
Ion Ratio Lower Upper
62 100
98 5.9 4.7 7.1



#38
Trichloroethene
Concen: 8.907 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:130 Resp: 71297
Ion Ratio Lower Upper
130 100
95 108.8 87.0 130.6
132 93.8 75.0 112.6
97 71.5 57.2 85.8





#39

1,2-Dichloropropane

Concen: 9.423 ppbv

RT: 4.309 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

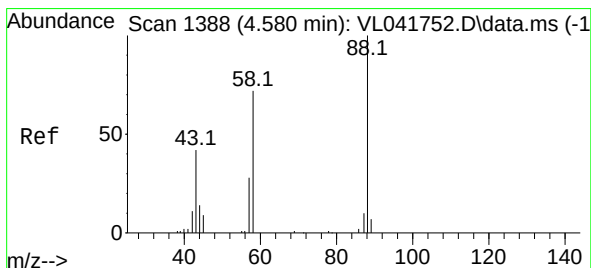
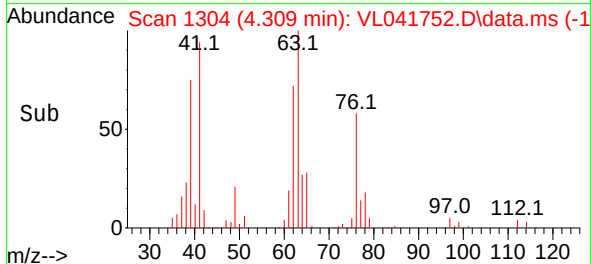
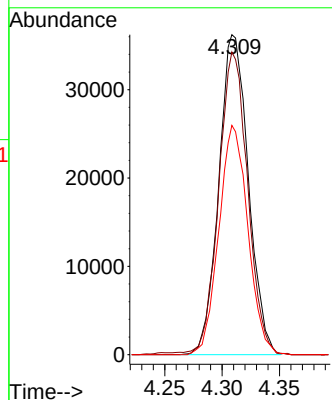
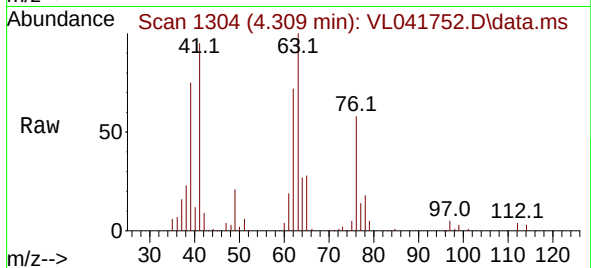
Tgt Ion: 63 Resp: 64789

Ion Ratio Lower Upper

63 100

41 94.1 75.3 112.9

62 71.6 57.3 85.9



#40

1,4-Dioxane

Concen: 9.128 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 88 Resp: 30658

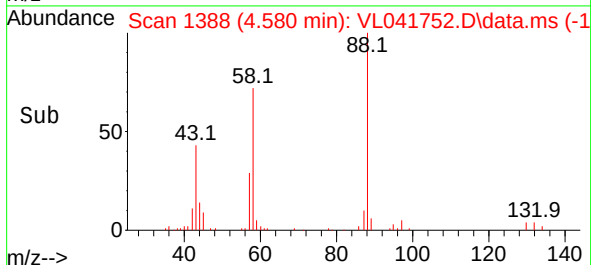
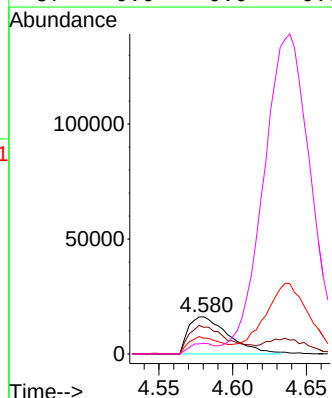
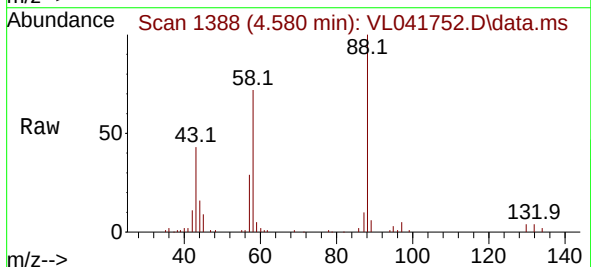
Ion Ratio Lower Upper

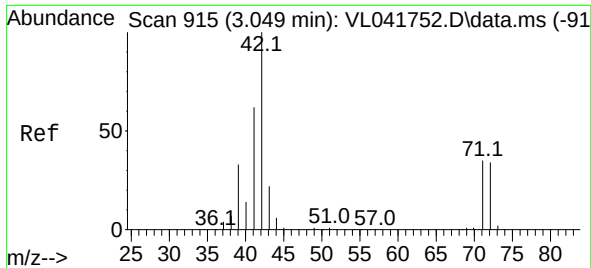
88 100

58 76.3 61.0 91.6

43 36.7 29.4 44.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.474 ppbv

RT: 3.049 min Scan# 915

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

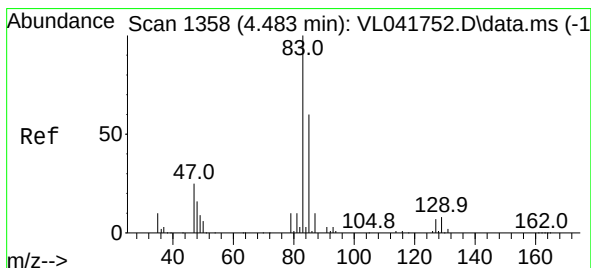
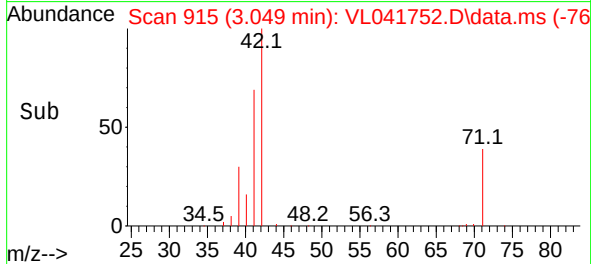
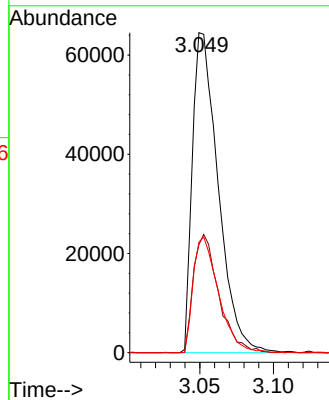
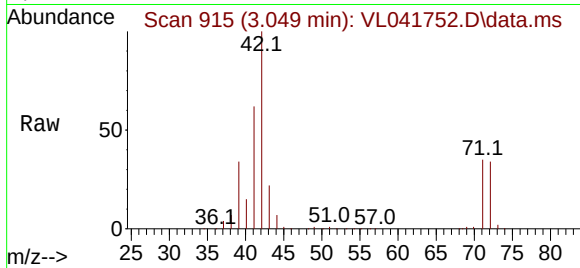
Tgt Ion: 42 Resp: 78480

Ion Ratio Lower Upper

42 100

72 36.4 29.1 43.7

71 35.5 28.4 42.6



#42

Bromodichloromethane

Concen: 10.494 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

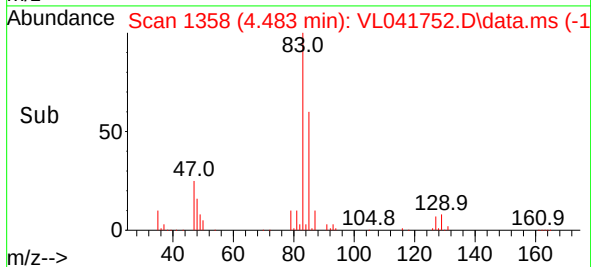
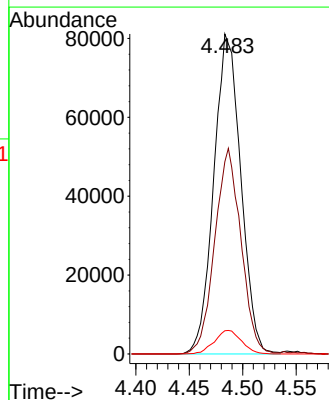
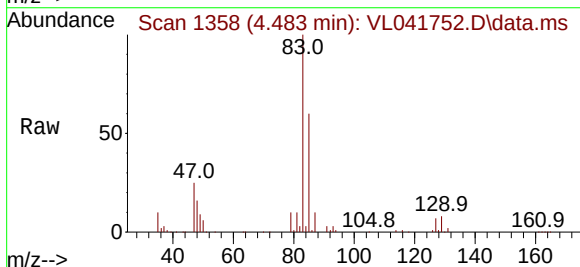
Tgt Ion: 83 Resp: 142819

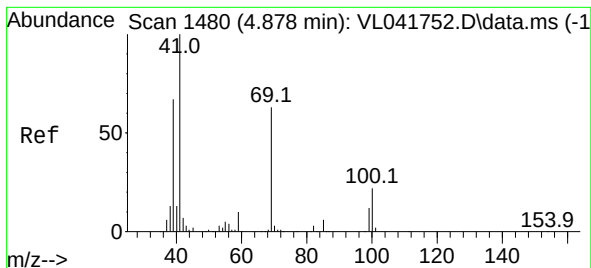
Ion Ratio Lower Upper

83 100

85 60.0 48.0 72.0

127 7.3 5.8 8.8





#43

Methyl Methacrylate

Concen: 10.020 ppbv

RT: 4.878 min Scan# 1480

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

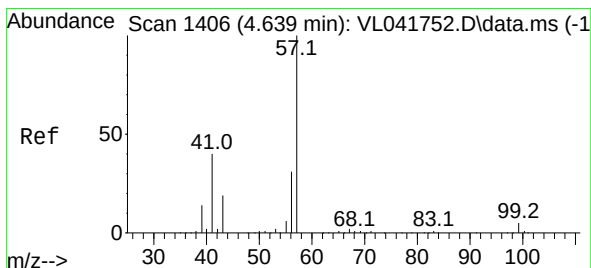
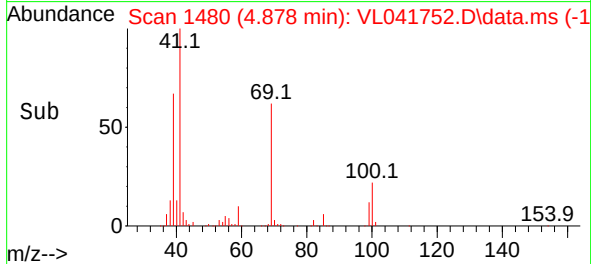
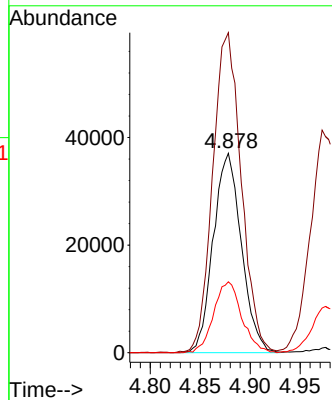
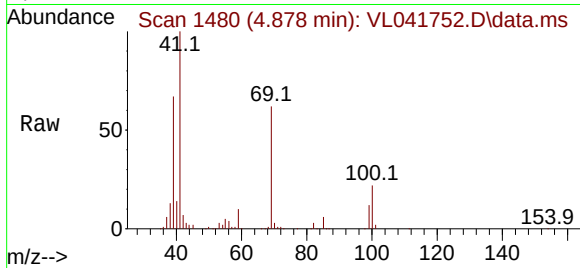
Tgt Ion: 69 Resp: 72578

Ion Ratio Lower Upper

69 100

41 162.9 130.3 195.5

100 35.4 28.3 42.5



#44

2,2,4-Trimethylpentane

Concen: 9.479 ppbv

RT: 4.639 min Scan# 1406

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

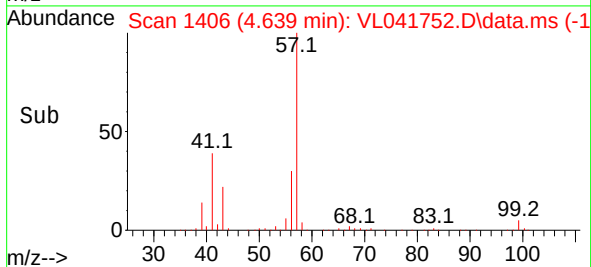
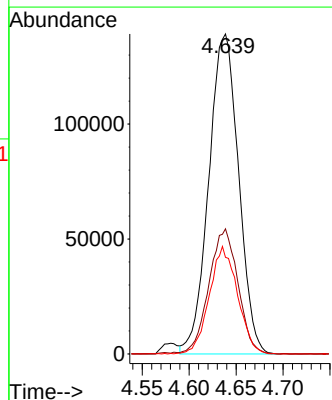
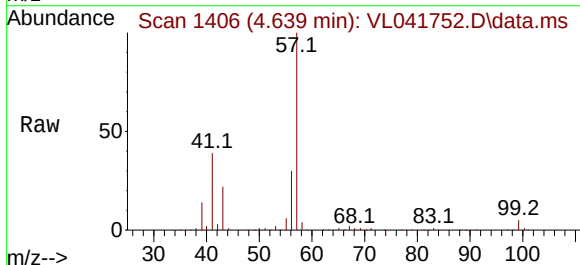
Tgt Ion: 57 Resp: 307748

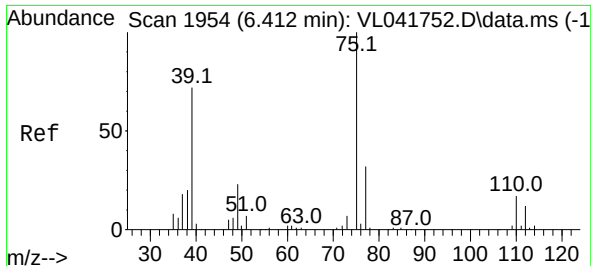
Ion Ratio Lower Upper

57 100

41 38.4 30.7 46.1

56 31.7 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 10.378 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

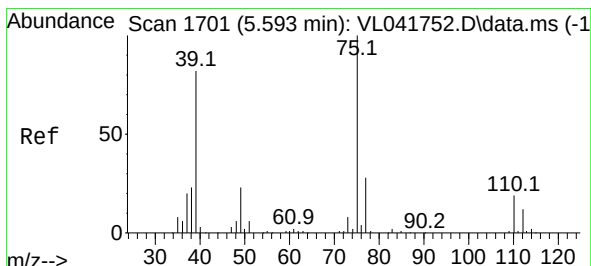
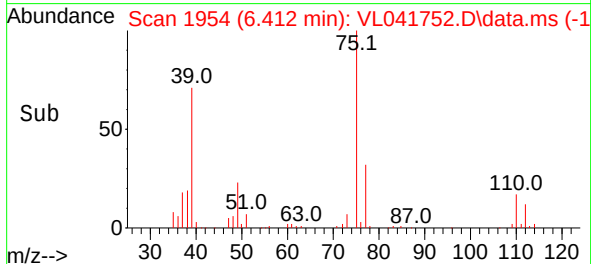
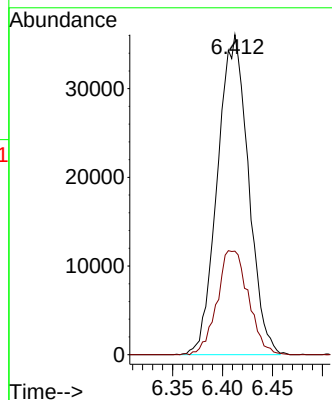
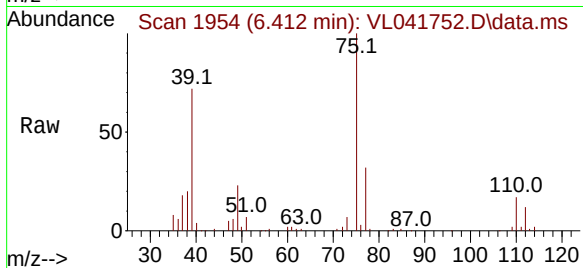
VSTDICCC010

Tgt Ion: 75 Resp: 77752

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 10.303 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

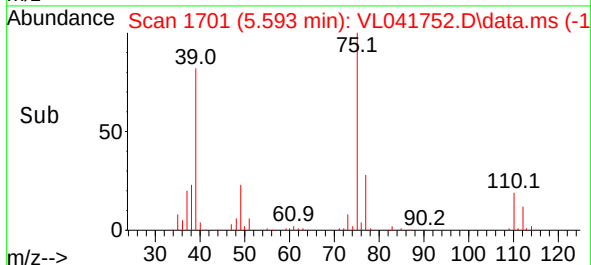
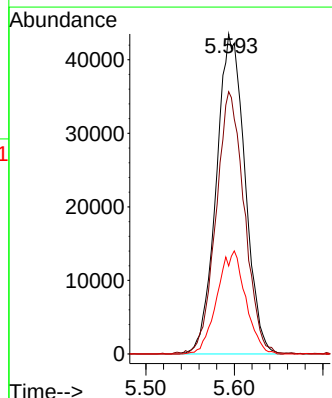
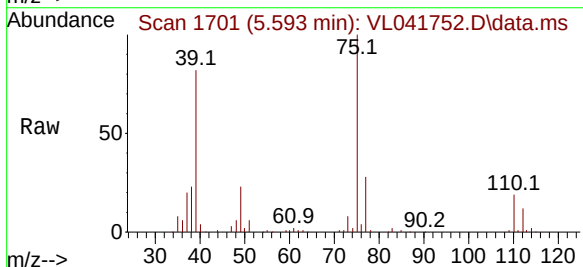
Tgt Ion: 75 Resp: 97992

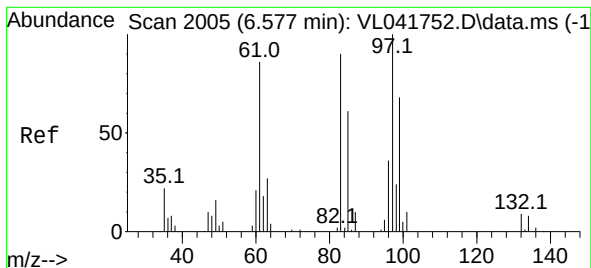
Ion Ratio Lower Upper

75 100

39 81.5 65.2 97.8

77 27.5 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 9.406 ppbv

RT: 6.577 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 67550

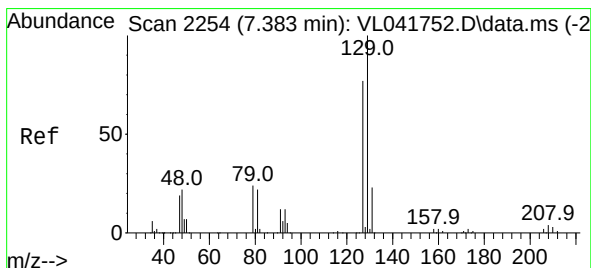
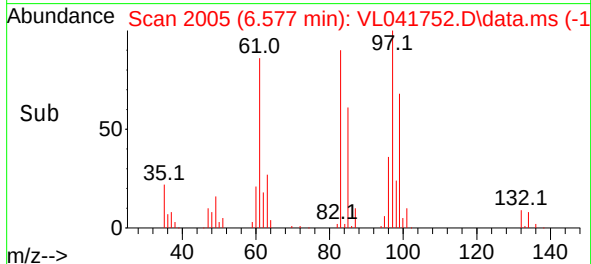
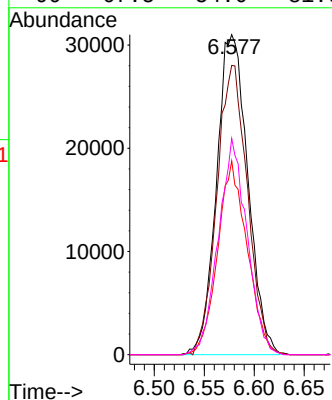
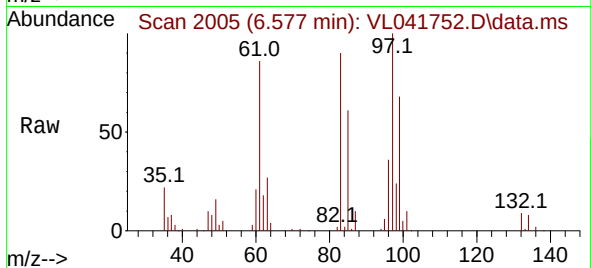
Ion Ratio Lower Upper

97 100

83 90.4 72.3 108.5

85 60.6 48.5 72.7

99 67.5 54.0 81.0



#48

Dibromochloromethane

Concen: 11.105 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL041752.D

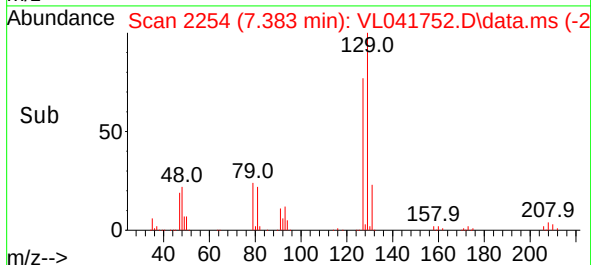
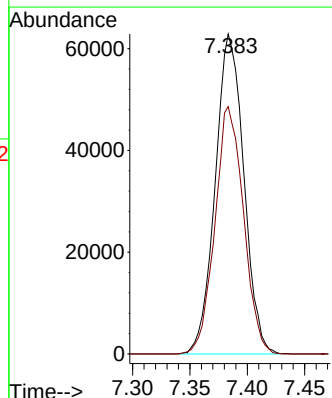
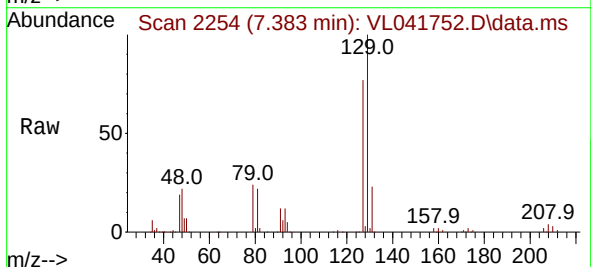
Acq: 16 Dec 2024 13:30

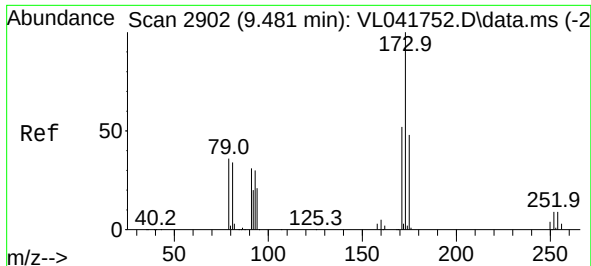
Tgt Ion: 129 Resp: 108899

Ion Ratio Lower Upper

129 100

127 77.5 38.8 116.3





#49

Bromoform

Concen: 11.410 ppbv

RT: 9.481 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

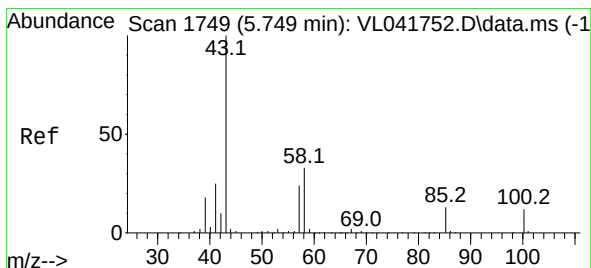
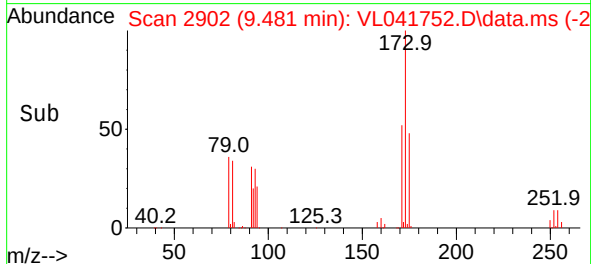
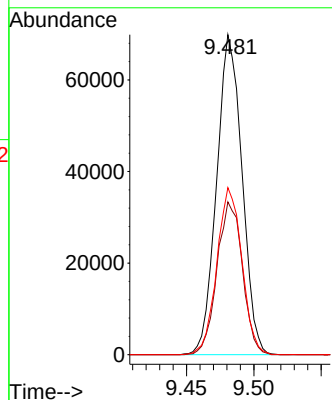
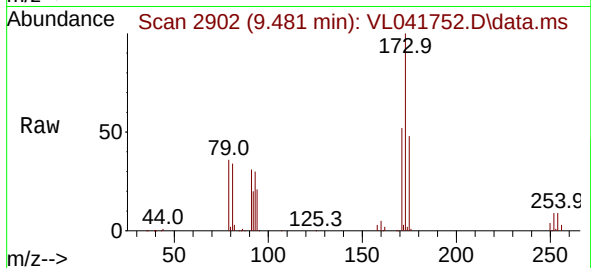
Tgt Ion:173 Resp: 91587

Ion Ratio Lower Upper

173 100

175 47.7 38.2 57.2

171 51.4 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 9.678 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VL041752.D

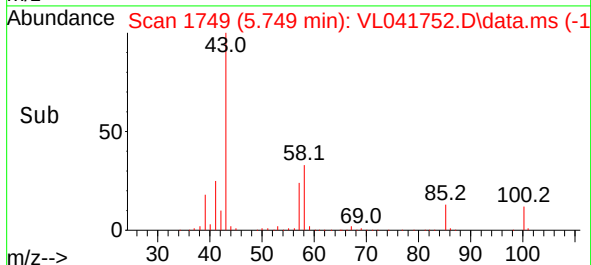
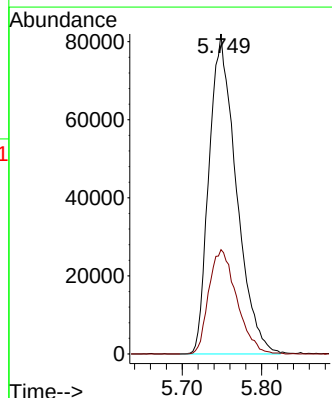
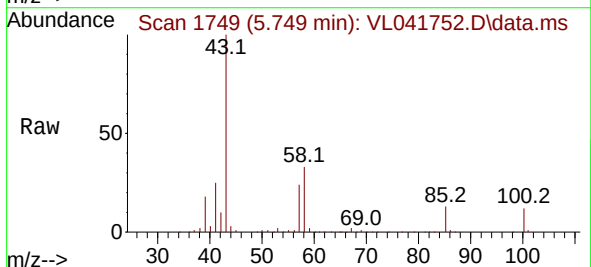
Acq: 16 Dec 2024 13:30

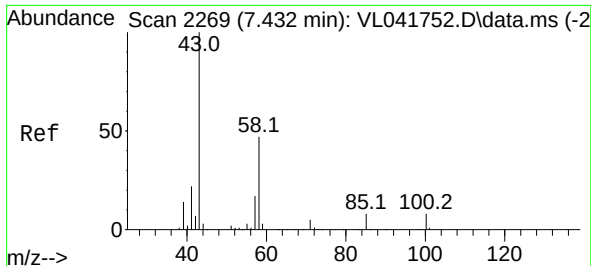
Tgt Ion: 43 Resp: 194838

Ion Ratio Lower Upper

43 100

58 33.5 26.8 40.2

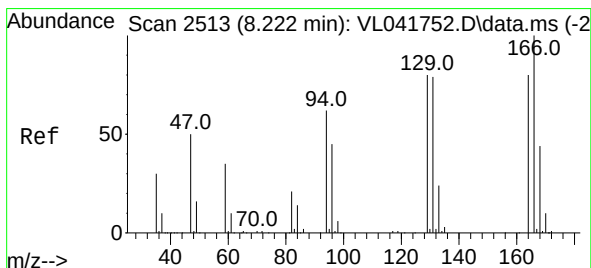
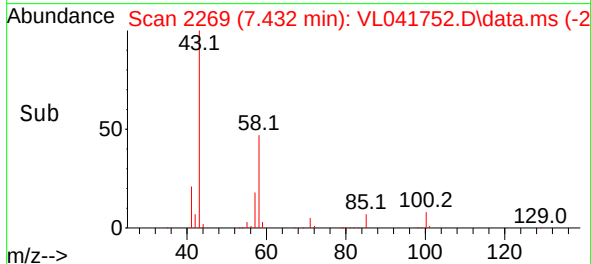
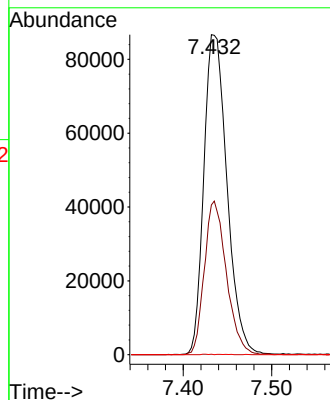
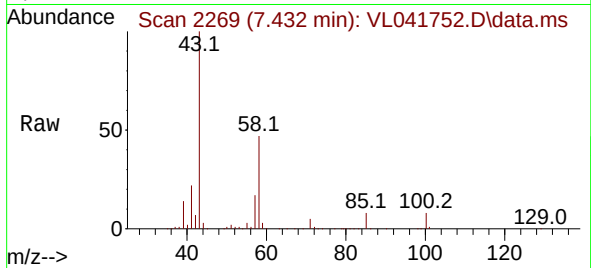




#51
2-Hexanone
Concen: 9.650 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

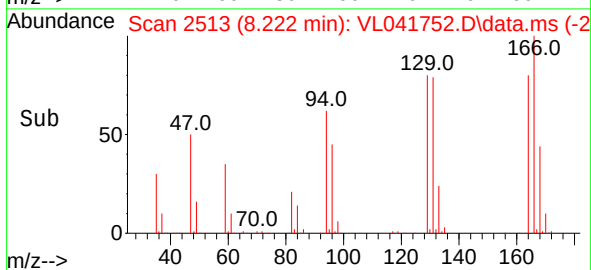
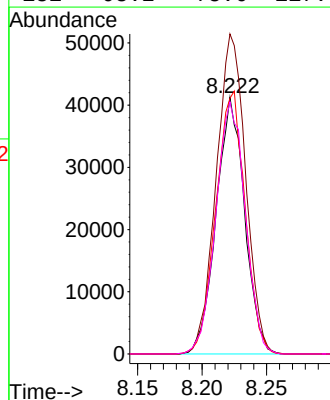
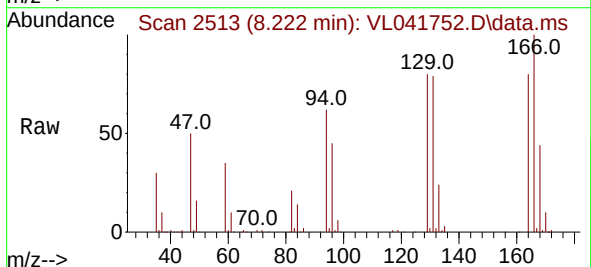
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

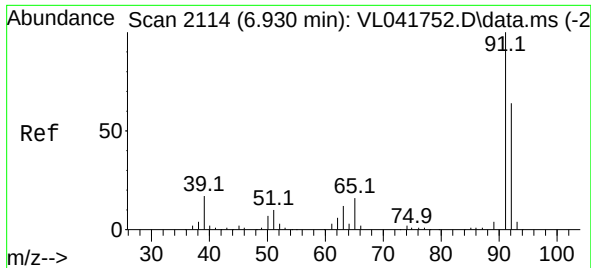
Tgt Ion: 43 Resp: 157473
Ion Ratio Lower Upper
43 100
58 45.8 36.6 55.0
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.901 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion: 164 Resp: 62989
Ion Ratio Lower Upper
164 100
166 124.7 99.8 149.6
129 99.5 79.6 119.4
131 98.2 78.6 117.8





#53

Toluene

Concen: 9.574 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

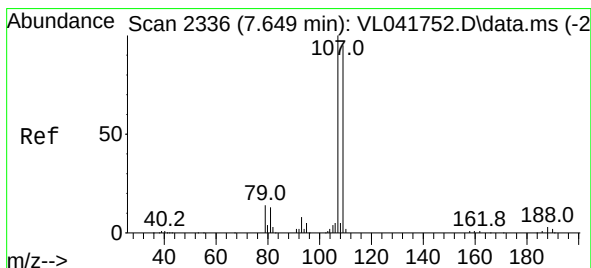
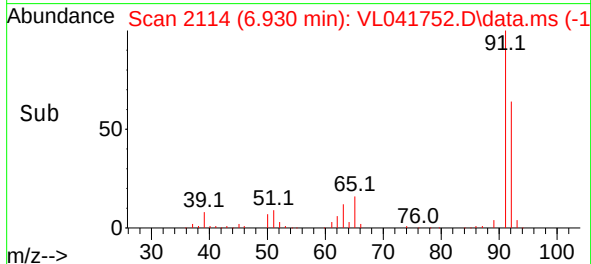
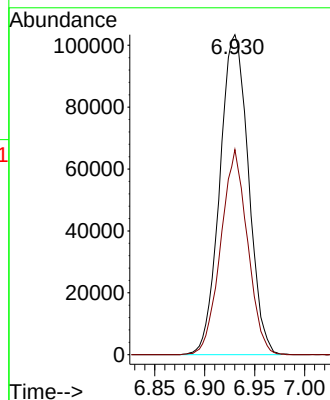
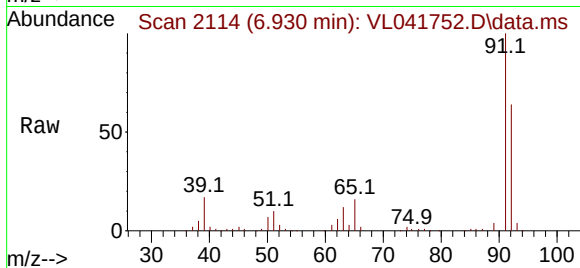
VSTDICCC010

Tgt Ion: 91 Resp: 206354

Ion Ratio Lower Upper

91 100

92 59.9 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.501 ppbv

RT: 7.649 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VL041752.D

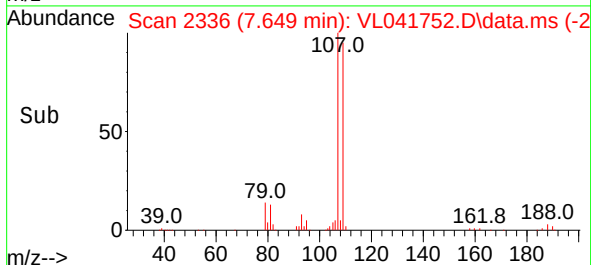
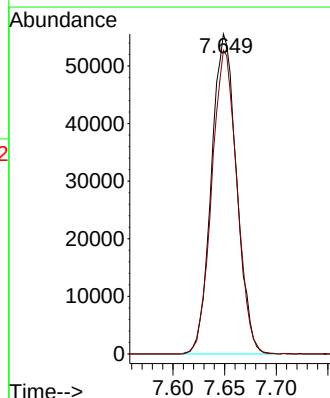
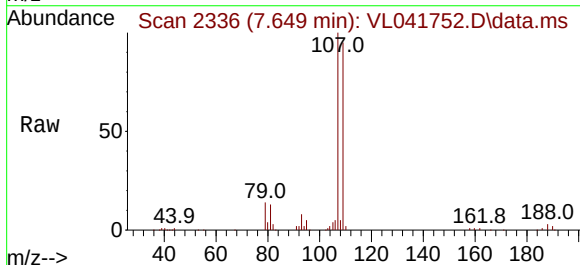
Acq: 16 Dec 2024 13:30

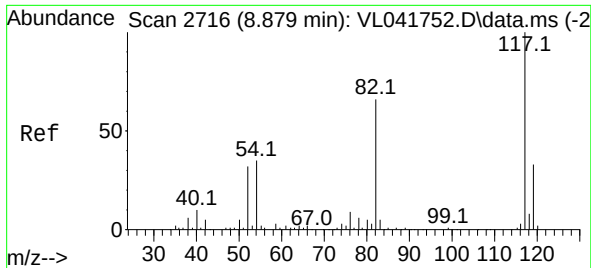
Tgt Ion: 107 Resp: 94016

Ion Ratio Lower Upper

107 100

109 94.9 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

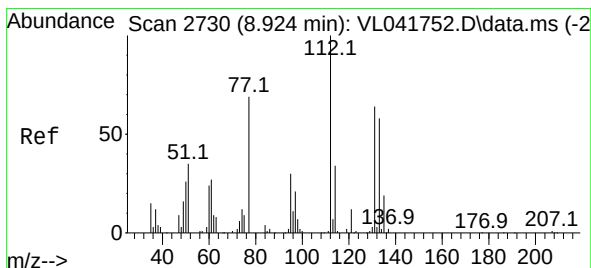
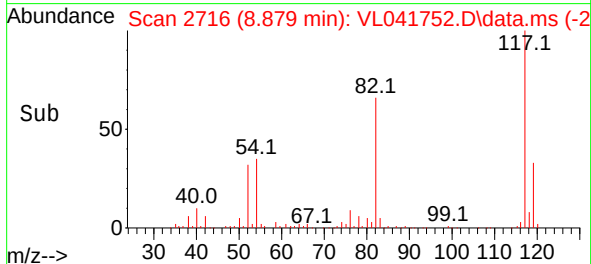
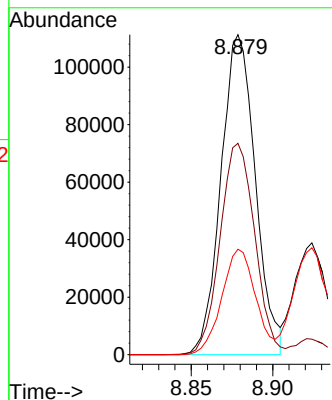
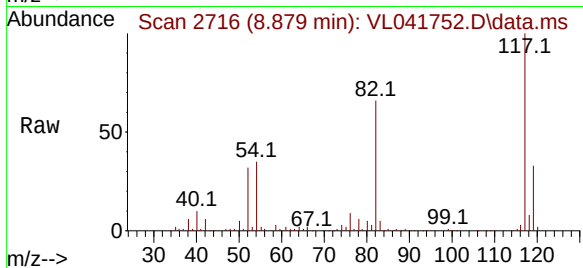
Tgt Ion:117 Resp: 163333

Ion Ratio Lower Upper

117 100

82 67.3 53.8 80.8

119 33.4 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 10.027 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

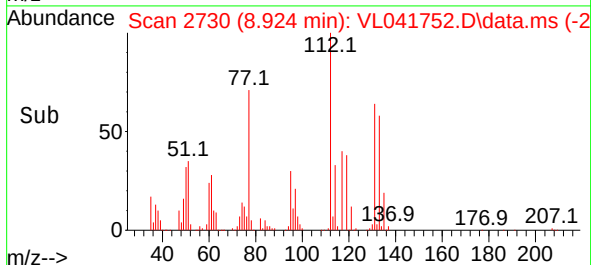
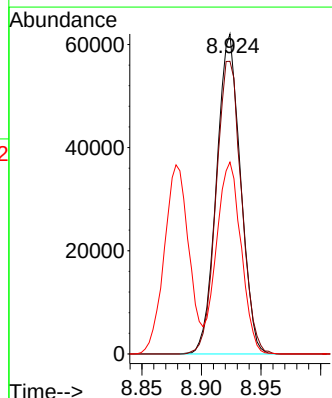
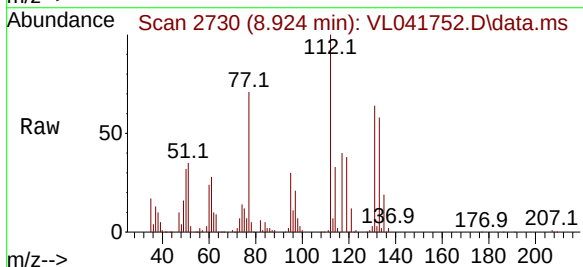
Tgt Ion:131 Resp: 86831

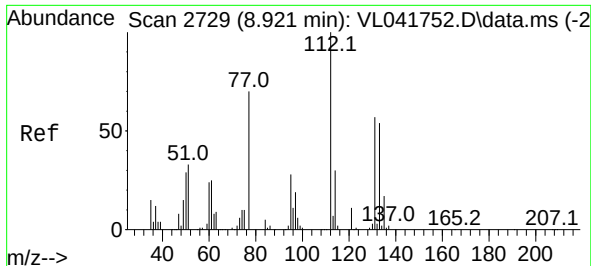
Ion Ratio Lower Upper

131 100

133 96.0 76.8 115.2

119 61.3 49.0 73.6





#57

Chlorobenzene

Concen: 9.295 ppbv

RT: 8.921 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

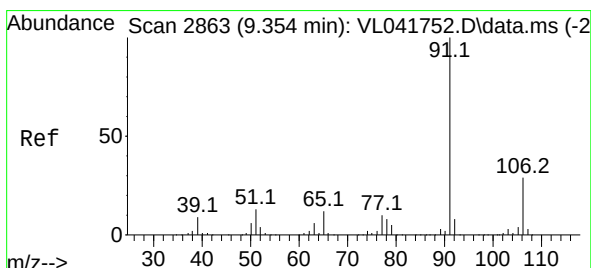
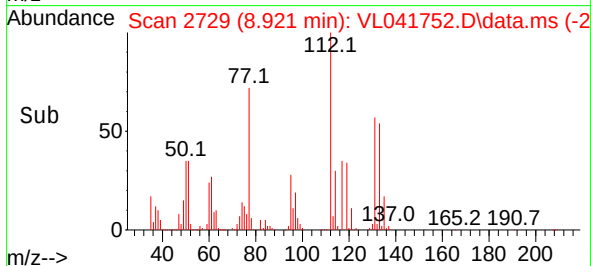
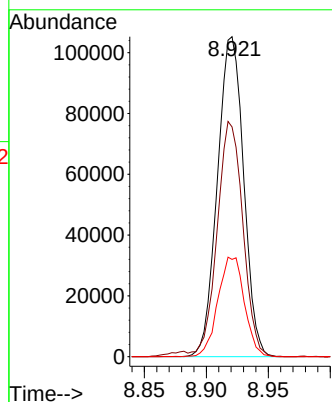
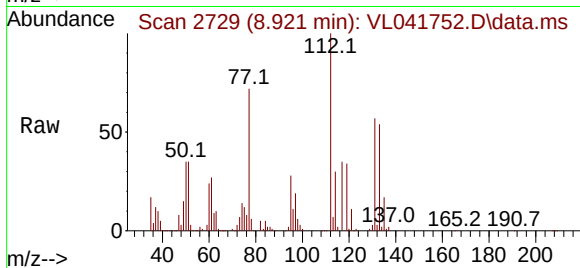
Tgt Ion:112 Resp: 155349

Ion Ratio Lower Upper

112 100

77 71.7 57.4 86.0

114 30.4 27.4 33.4



#58

Ethyl Benzene

Concen: 9.853 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.000 min

Lab File: VL041752.D

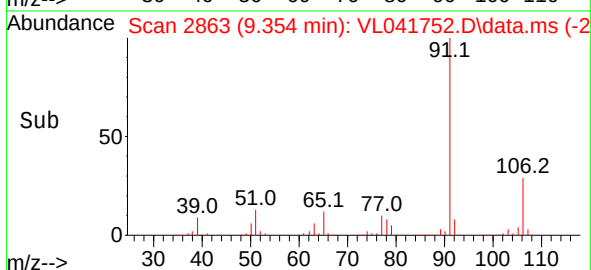
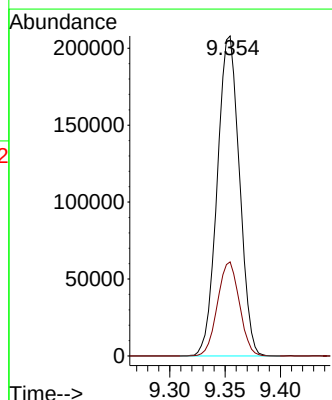
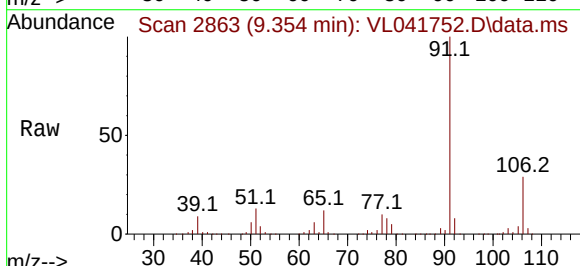
Acq: 16 Dec 2024 13:30

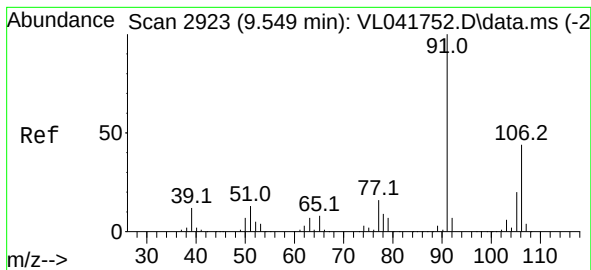
Tgt Ion: 91 Resp: 289734

Ion Ratio Lower Upper

91 100

106 29.4 23.5 35.3





#59

m/p-Xylene

Concen: 9.713 ppbv

RT: 9.549 min Scan# 2923

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

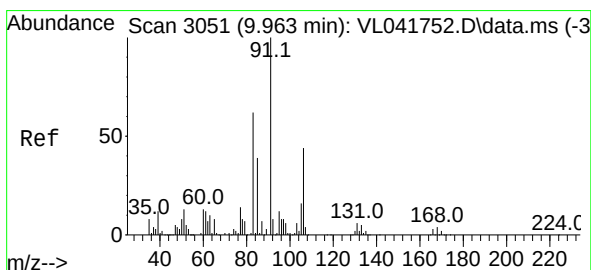
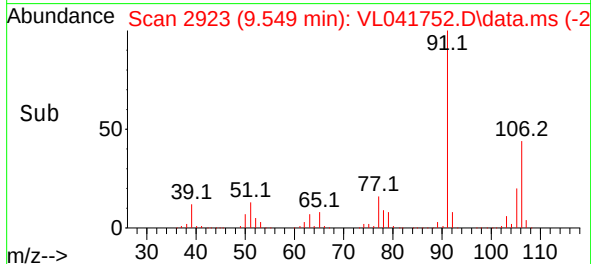
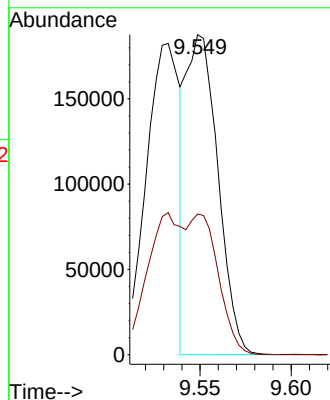
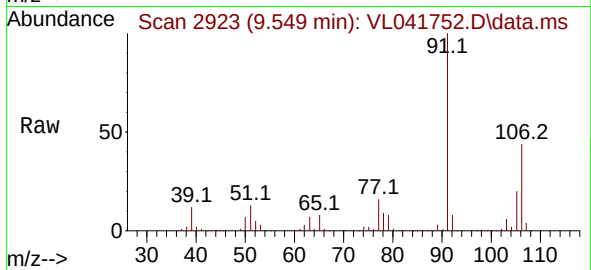
VSTDICCC010

Tgt Ion: 91 Resp: 229713

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.789 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL041752.D

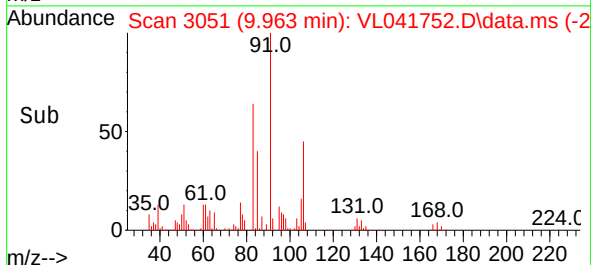
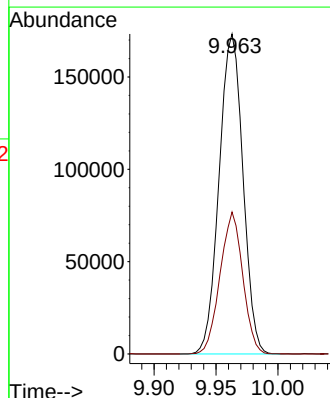
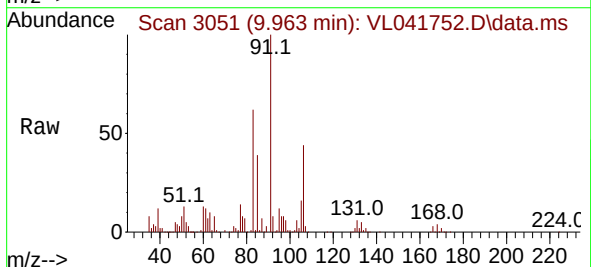
Acq: 16 Dec 2024 13:30

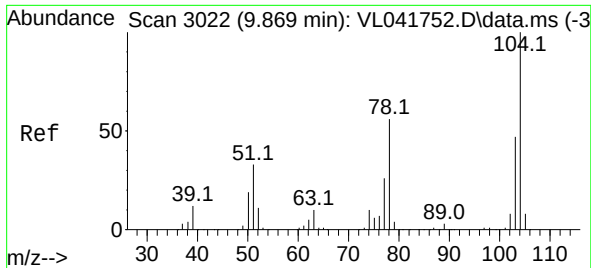
Tgt Ion: 91 Resp: 232101

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4

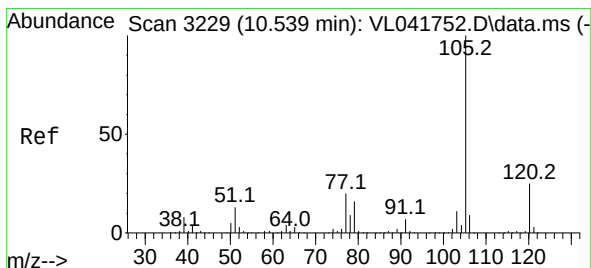
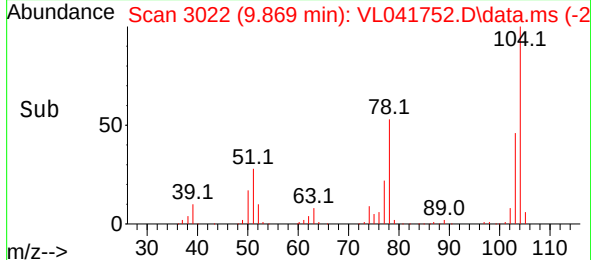
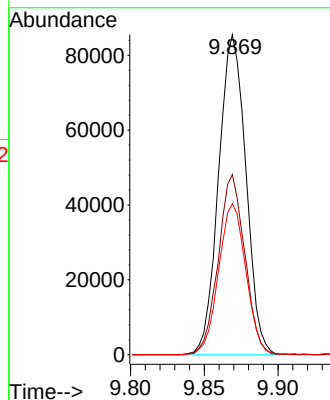
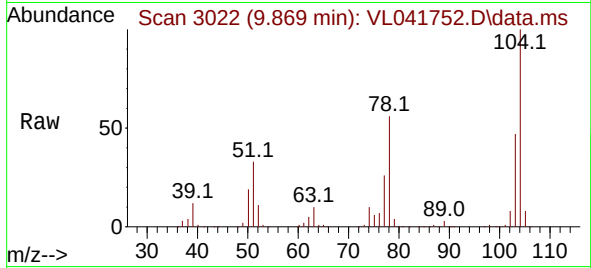




#61
Styrene
Concen: 10.733 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

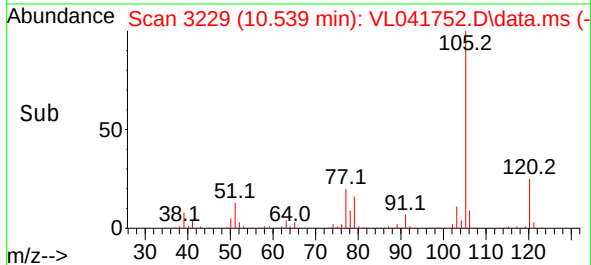
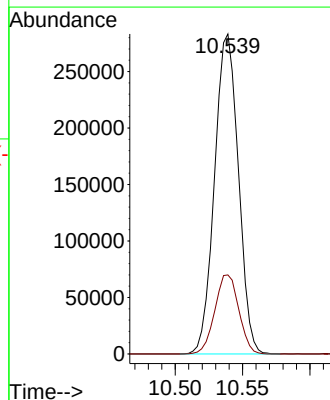
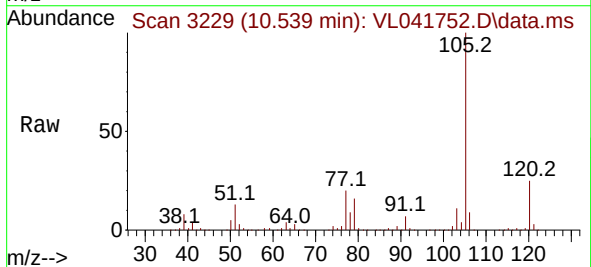
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

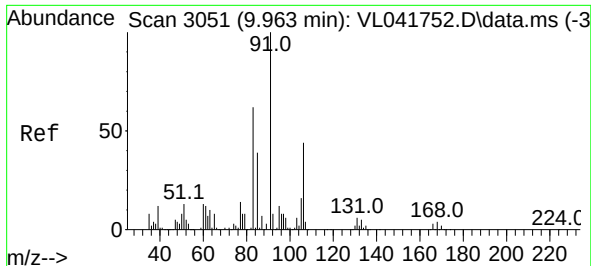
Tgt Ion:104 Resp: 110041
Ion Ratio Lower Upper
104 100
78 54.7 43.8 65.6
103 47.2 37.8 56.6



#62
Isopropylbenzene
Concen: 9.788 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:105 Resp: 348684
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 9.255 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

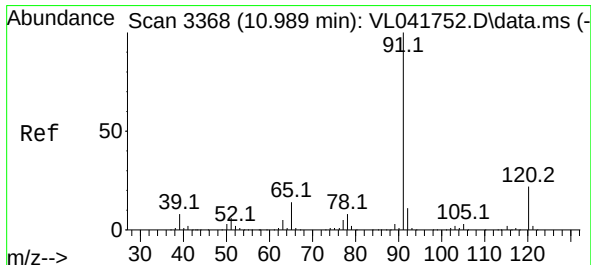
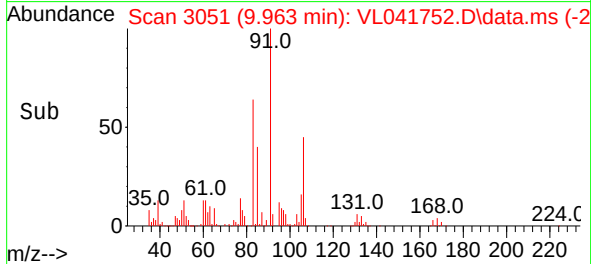
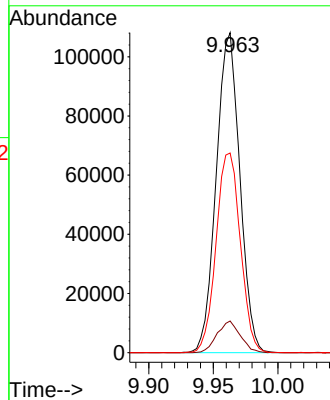
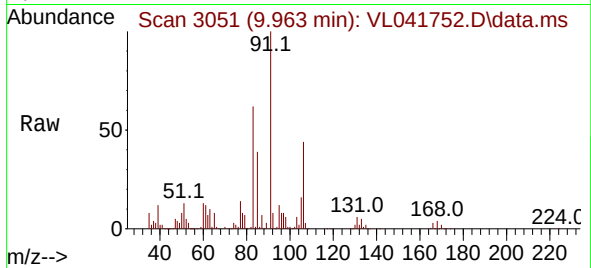
Tgt Ion: 83 Resp: 137363

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

85 64.1 32.0 96.2



#64

n-propylbenzene

Concen: 9.700 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL041752.D

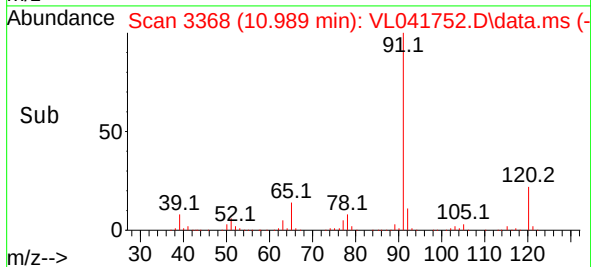
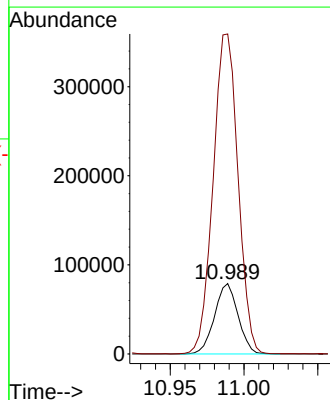
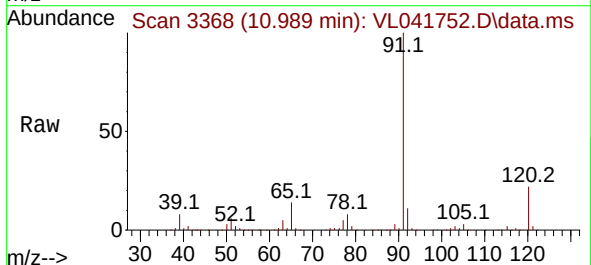
Acq: 16 Dec 2024 13:30

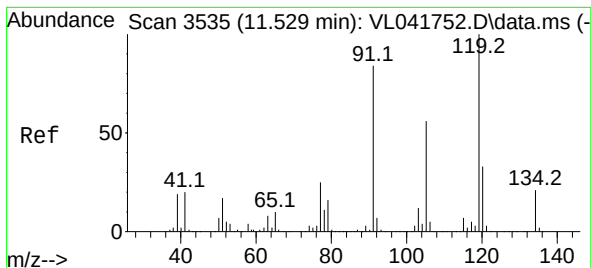
Tgt Ion: 120 Resp: 87360

Ion Ratio Lower Upper

120 100

91 484.1 387.3 580.9





#65

tert-Butylbenzene

Concen: 9.615 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

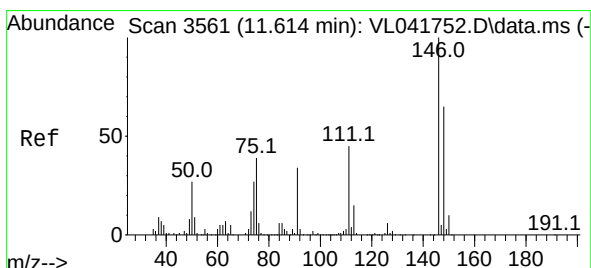
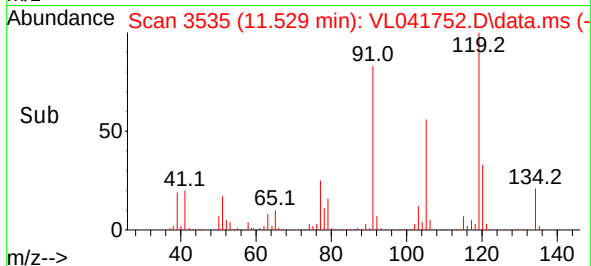
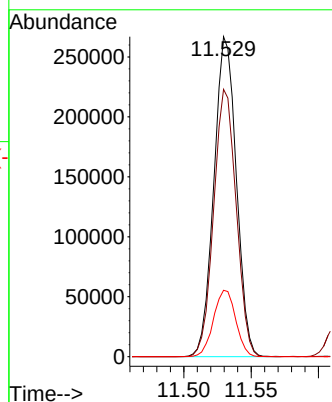
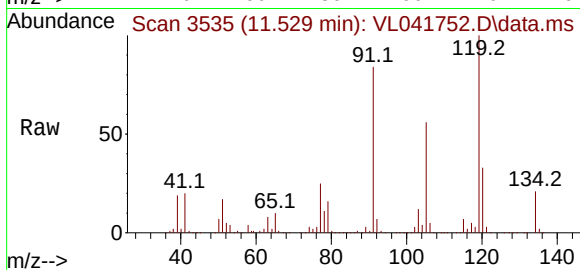
Tgt Ion:119 Resp: 309036

Ion Ratio Lower Upper

119 100

91 83.7 67.0 100.4

134 20.6 16.5 24.7



#66

Benzyl Chloride

Concen: 10.954 ppbv

RT: 11.614 min Scan# 3561

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

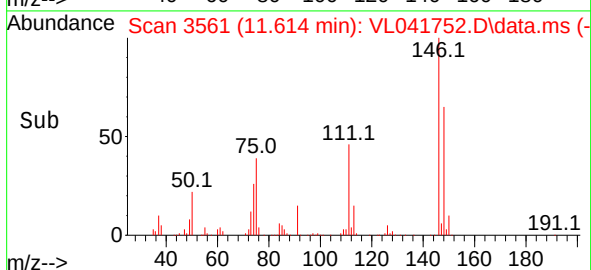
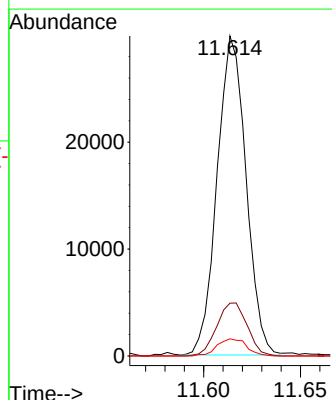
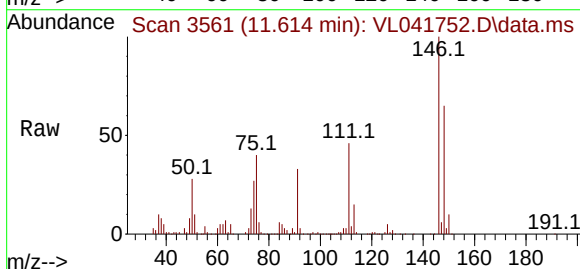
Tgt Ion: 91 Resp: 31039

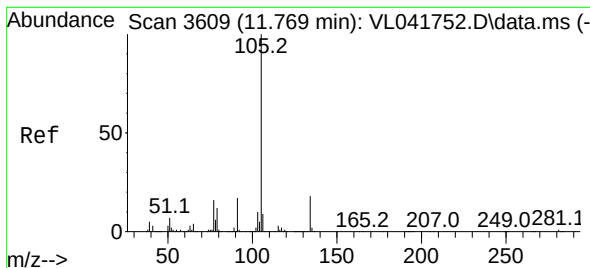
Ion Ratio Lower Upper

91 100

126 17.4 13.9 20.9

128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.687 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

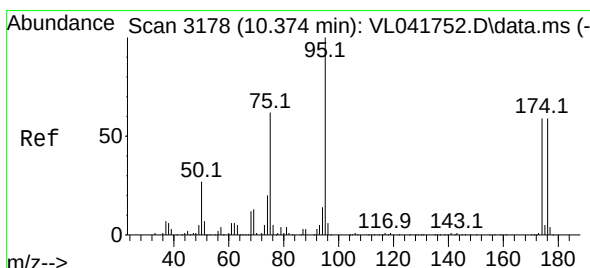
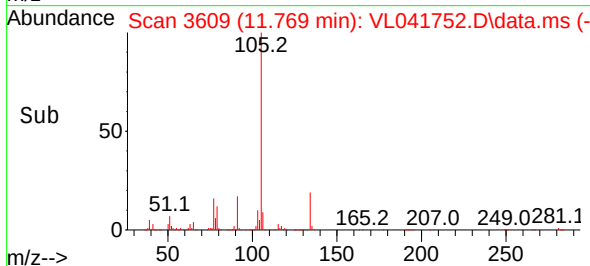
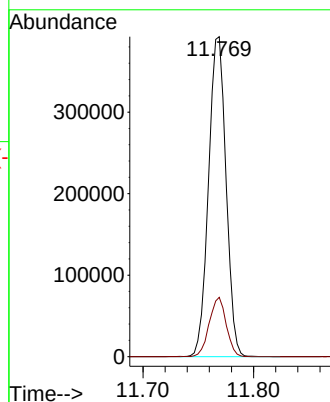
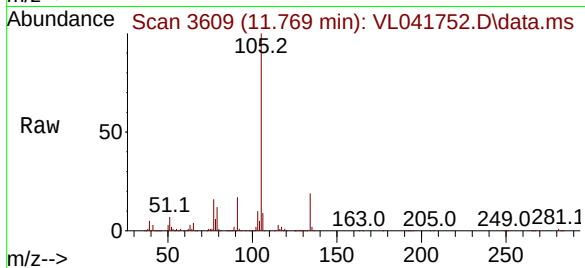
VSTDICCC010

Tgt Ion:105 Resp: 430810

Ion Ratio Lower Upper

105 100

134 18.1 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.172 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

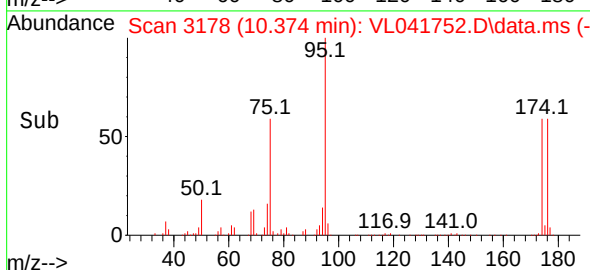
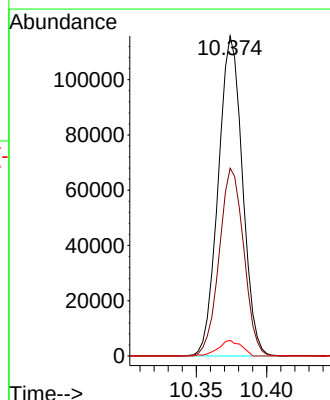
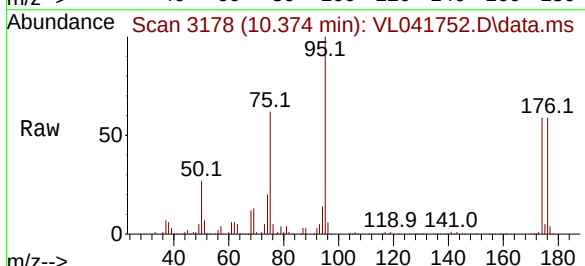
Tgt Ion: 95 Resp: 138451

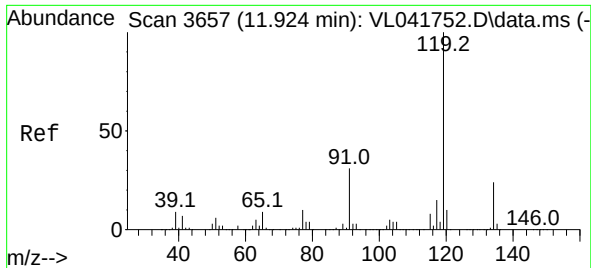
Ion Ratio Lower Upper

95 100

174 59.5 47.6 71.4

175 4.6 3.7 5.5

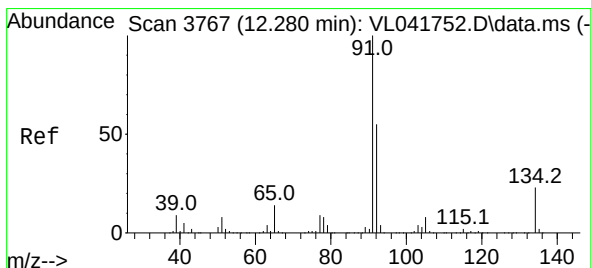
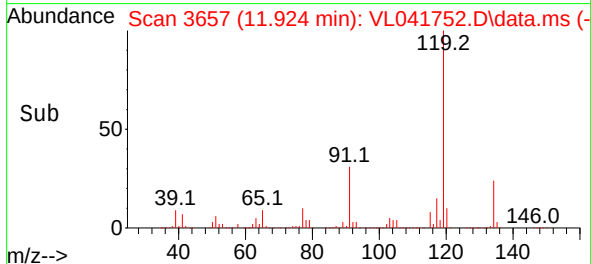
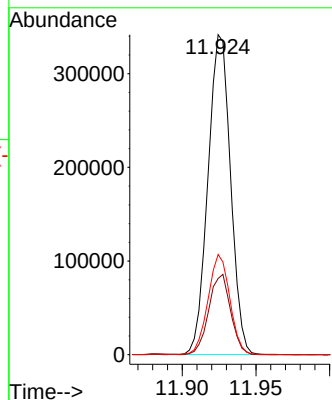
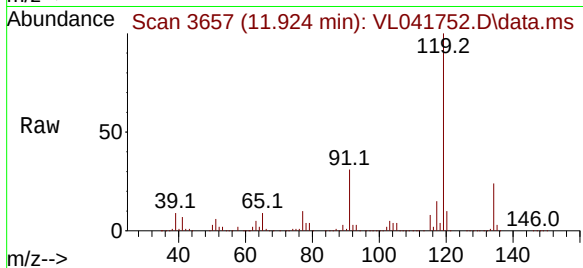




#69
 p-Isopropyltoluene
 Concen: 9.906 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

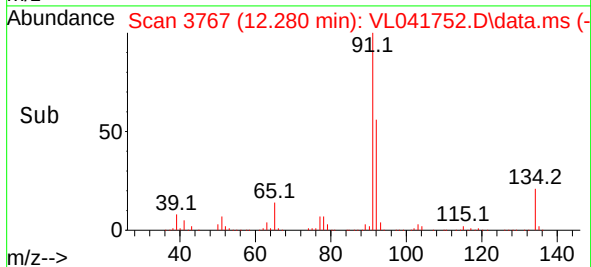
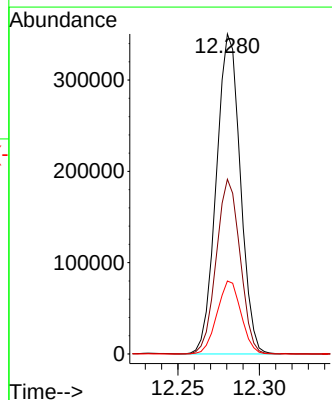
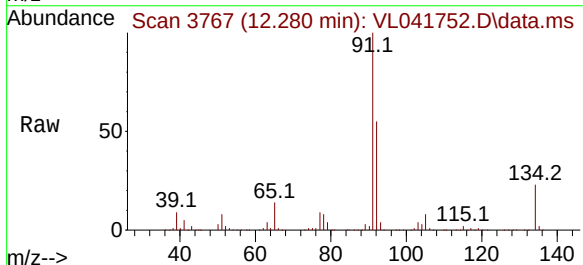
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

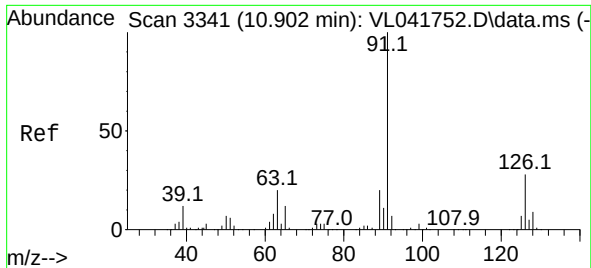
Tgt Ion:119 Resp: 363072
 Ion Ratio Lower Upper
 119 100
 134 24.5 19.6 29.4
 91 30.5 24.4 36.6



#70
 n-Butylbenzene
 Concen: 10.137 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

Tgt Ion: 91 Resp: 358993
 Ion Ratio Lower Upper
 91 100
 92 54.0 43.2 64.8
 134 22.8 18.2 27.4

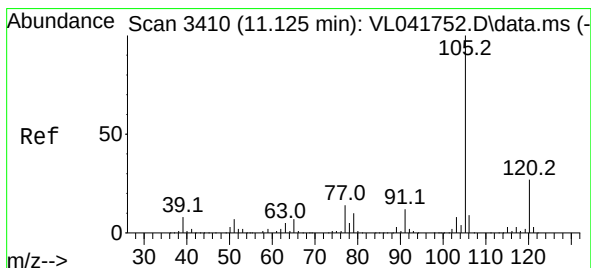
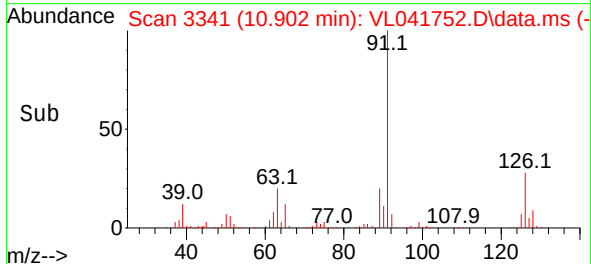
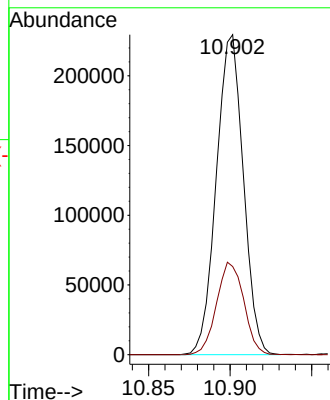
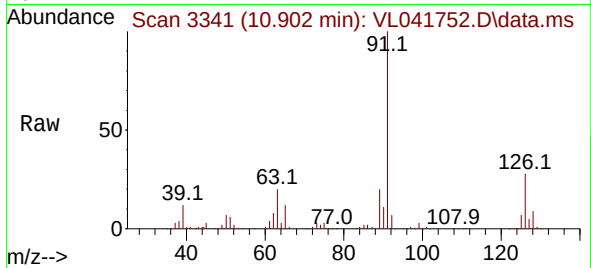




#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

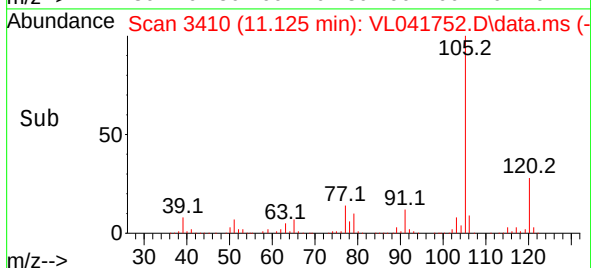
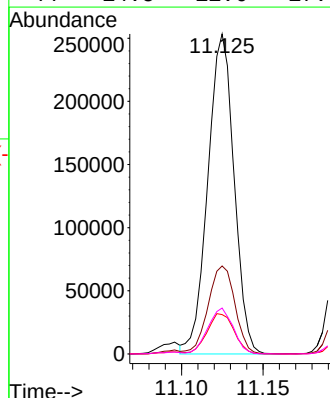
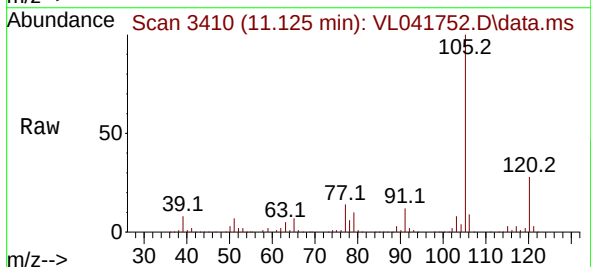
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

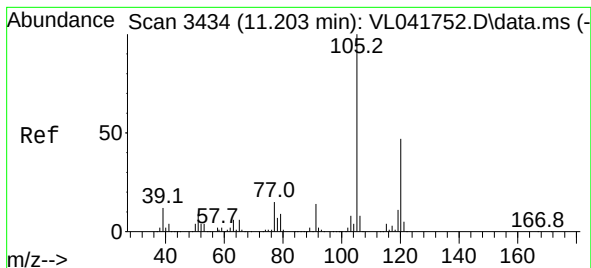
Tgt Ion: 91 Resp: 264002
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:105 Resp: 282698
Ion Ratio Lower Upper
105 100
120 29.1 23.3 34.9
91 13.6 10.9 16.3
77 14.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 10.304 ppbv

RT: 11.203 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

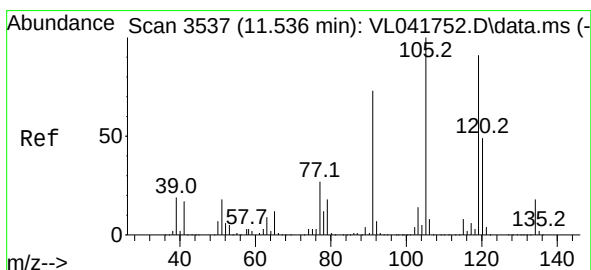
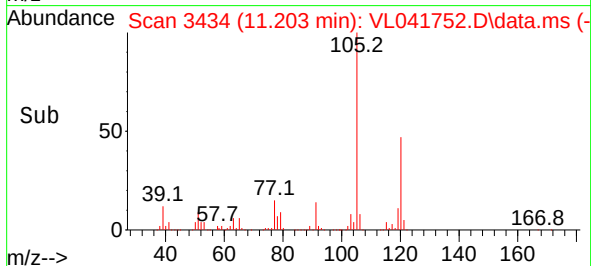
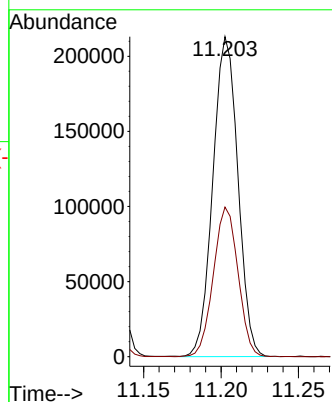
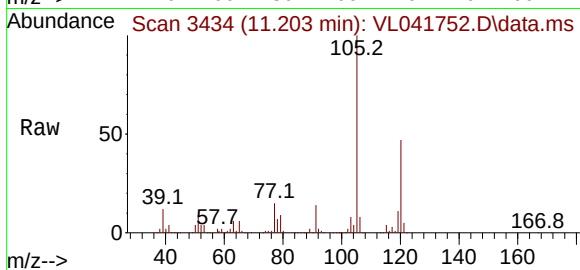
VSTDICCC010

Tgt Ion:105 Resp: 239261

Ion Ratio Lower Upper

105 100

120 46.8 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 10.244 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion:105 Resp: 255780

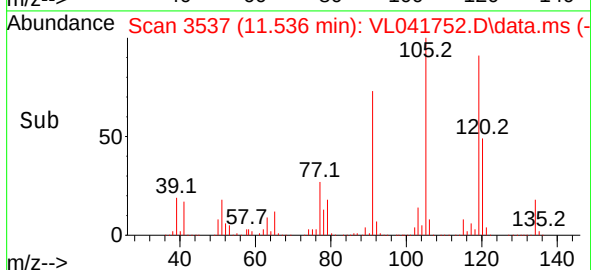
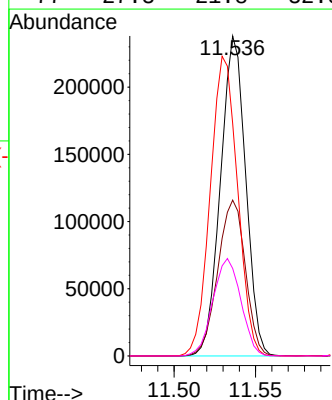
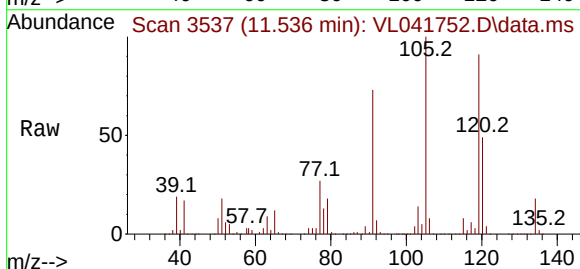
Ion Ratio Lower Upper

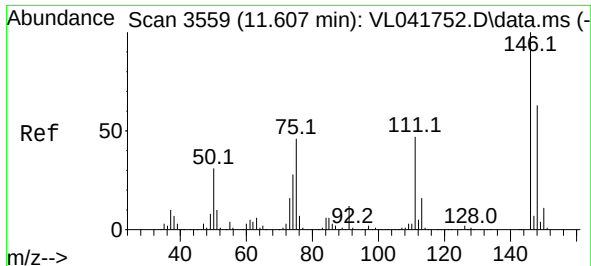
105 100

120 48.7 39.0 58.4

91 72.6 58.1 87.1

77 27.3 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 9.532 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

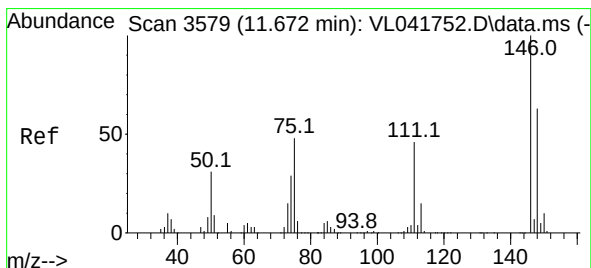
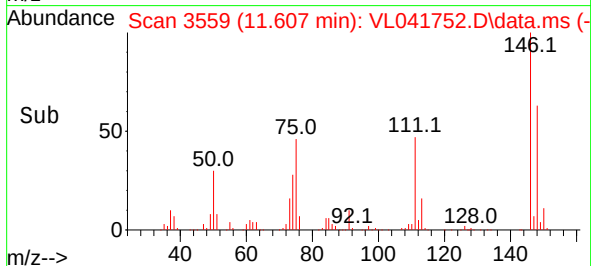
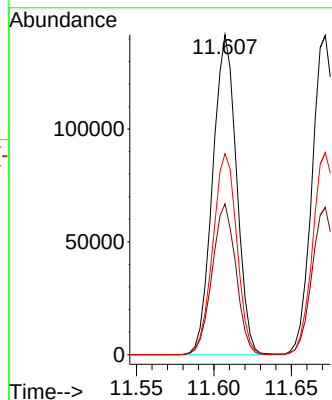
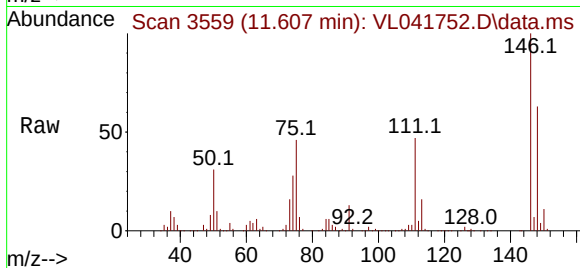
Tgt Ion:146 Resp: 151752

Ion Ratio Lower Upper

146 100

111 46.9 23.4 70.3

148 63.3 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 9.671 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

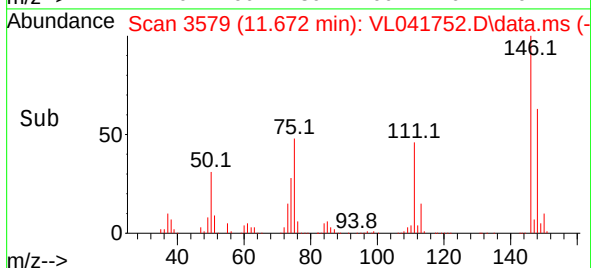
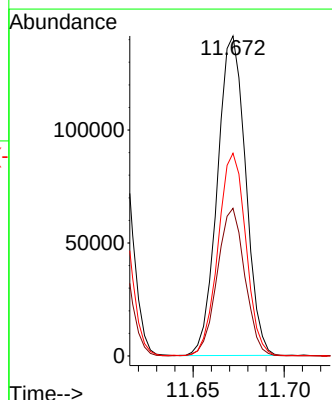
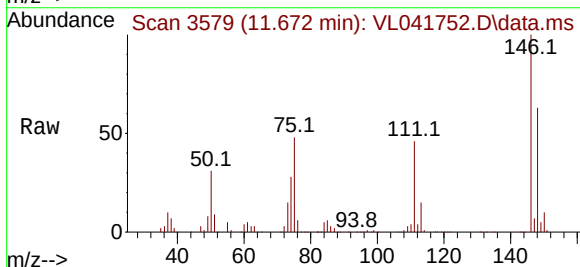
Tgt Ion:146 Resp: 152099

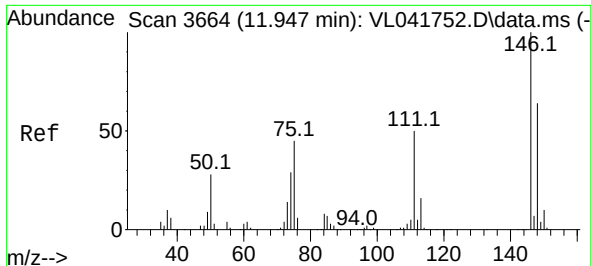
Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

148 62.7 31.4 94.0

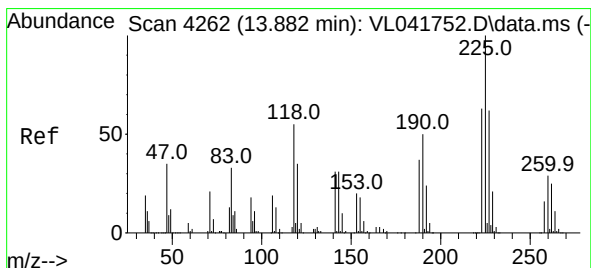
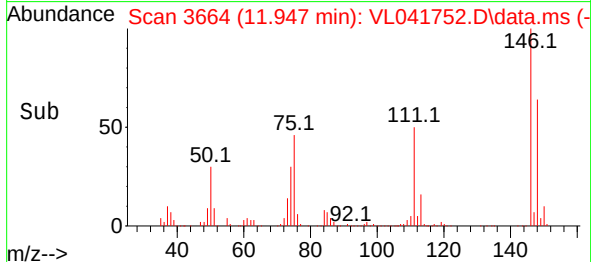
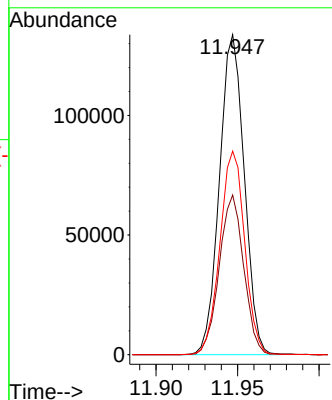
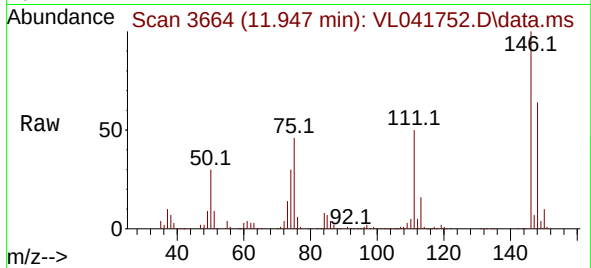




#77
1,2-Dichlorobenzene
Concen: 9.227 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

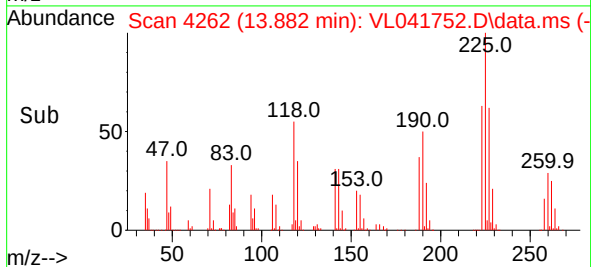
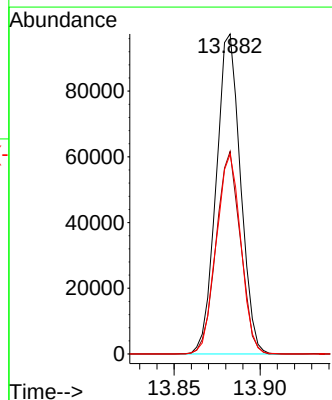
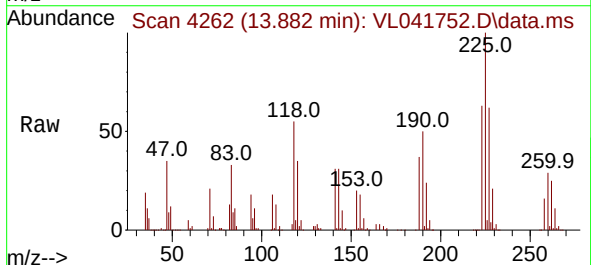
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

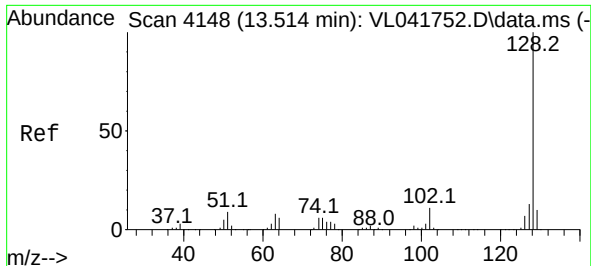
Tgt Ion:146 Resp: 141338
Ion Ratio Lower Upper
146 100
111 49.5 24.8 74.3
148 63.6 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 8.431 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Tgt Ion:225 Resp: 95751
Ion Ratio Lower Upper
225 100
223 63.1 50.5 75.7
227 62.9 50.3 75.5





#79

Naphthalene

Concen: 11.812 ppbv

RT: 13.514 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

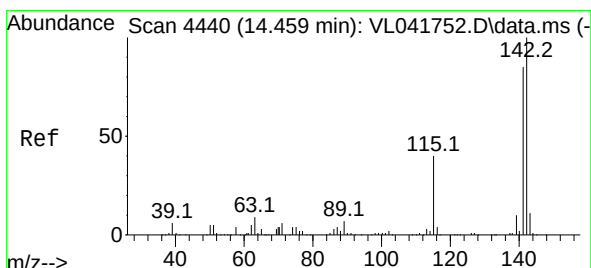
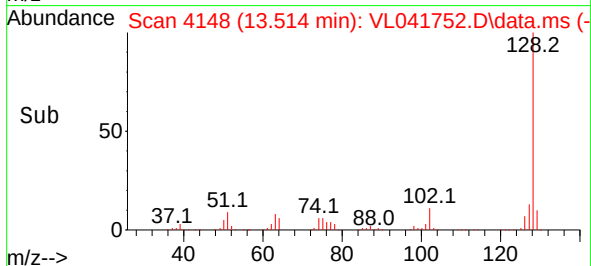
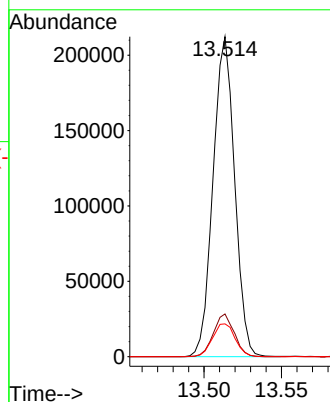
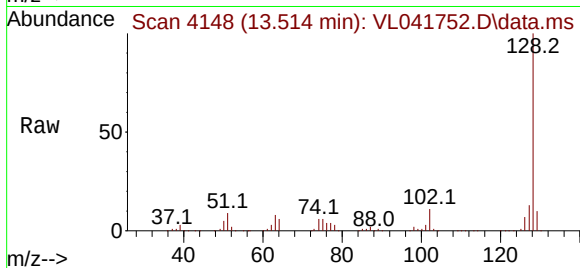
Tgt Ion:128 Resp: 205511

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

129 10.3 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 19.755 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

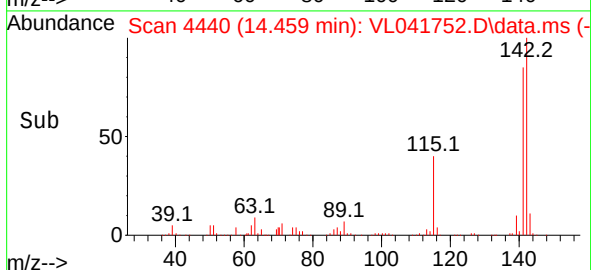
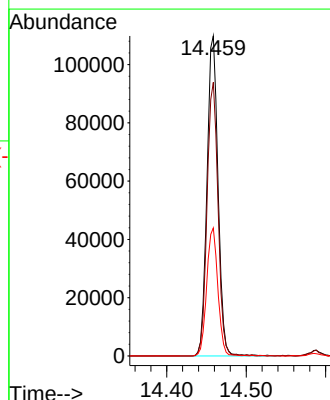
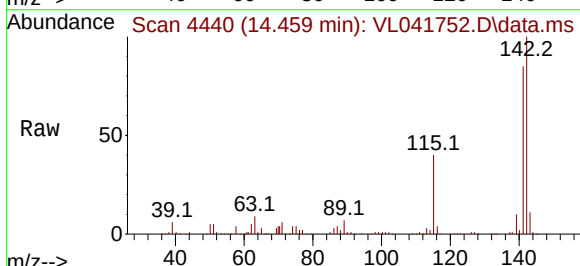
Tgt Ion:142 Resp: 106311

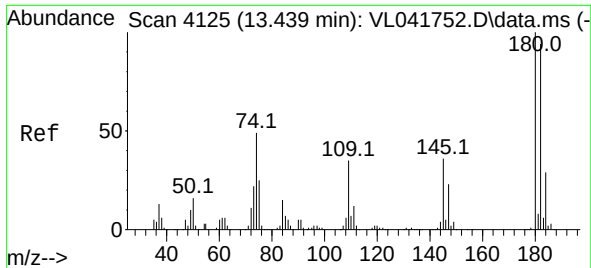
Ion Ratio Lower Upper

142 100

141 85.5 68.4 102.6

115 40.6 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 10.672 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041752.D

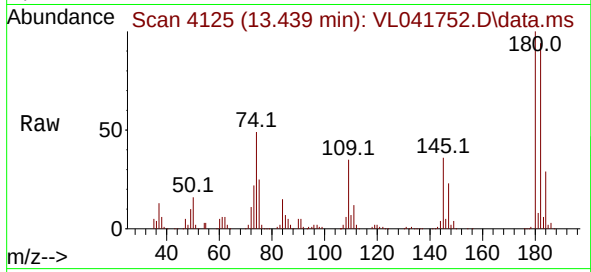
Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



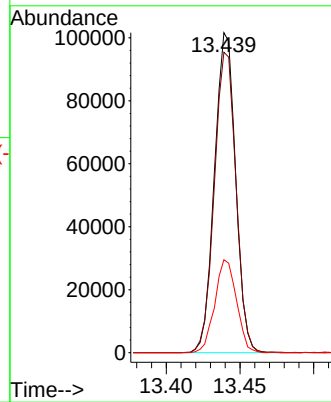
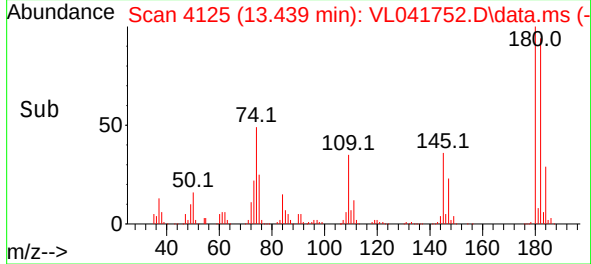
Tgt Ion:180 Resp: 101461

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.6

184 29.8 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Dec 19 06:12:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	67443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	182992	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	163971	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	138312	10.122	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	24819	2.068	ppbv	98
3) Chlorodifluoromethane	1.476	51	22299	2.027	ppbv	96
4) Chloromethane	1.531	50	9926	2.114	ppbv	99
5) Vinyl Chloride	1.580	62	9300	1.966	ppbv	99
6) Bromomethane	1.667	94	4625	2.072	ppbv	99
7) Chloroethane	1.706	64	4003	2.178	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	21791	2.029	ppbv	100
9) Propene	1.483	41	10115	2.122	ppbv	97
10) Heptane	4.978	43	25297	2.066	ppbv	100
11) Trichlorofluoromethane	1.878	101	26208	2.056	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	19770	2.039	ppbv	99
13) Ethanol	1.722	45	792	1.998	ppbv #	49
14) Bromoethene	1.784	108	6527	1.994	ppbv #	90
15) Acetone	1.835	43	27613	2.104	ppbv	99
16) 1,3-Butadiene	1.609	39	10478	2.028	ppbv	96
17) tert-Butyl alcohol	2.043	59	26646	2.047	ppbv	99
18) 1,1-Dichloroethene	2.033	96	8389	2.064	ppbv	92
19) Isopropyl Alcohol	1.887	45	14937	1.897	ppbv	93
20) Methylene Chloride	2.062	84	7586	2.027	ppbv	94
21) Allyl Chloride	2.094	41	14731	2.070	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	9407	2.022	ppbv	94
23) Vinyl Acetate	2.463	43	17652	3.096	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	19070	2.025	ppbv	99
25) Ethyl Acetate	2.836	43	50510	2.059	ppbv	99
26) Hexane	2.826	57	19200	2.073	ppbv	98
27) Carbon Disulfide	2.153	76	16214	1.942	ppbv #	34
28) Methyl tert-Butyl Ether	2.441	73	15039	2.001	ppbv	98
29) Chloroform	2.849	83	28843	2.043	ppbv	98
30) Cyclohexane	3.858	84	16384	2.079	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	19688	2.057	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	28341	2.017	ppbv	98
34) 2-Butanone	2.557	43	31483	2.138	ppbv	99
35) Carbon Tetrachloride	3.765	117	27727	2.134	ppbv	98
36) Benzene	3.658	78	38759	2.048	ppbv	94
37) 1,2-Dichloroethane	3.221	62	23800	2.021	ppbv	98
38) Trichloroethene	4.548	130	15660	1.965	ppbv	94
39) 1,2-Dichloropropane	4.315	63	14197	2.074	ppbv	94
40) 1,4-Dioxane	4.596	88	3078	0.920	ppbv #	20
41) Tetrahydrofuran	3.059	42	16665	2.021	ppbv	96
42) Bromodichloromethane	4.489	83	26716	1.972	ppbv	98
43) Methyl Methacrylate	4.884	69	14849	2.059	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	67432	2.086	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	14885	1.995	ppbv	99

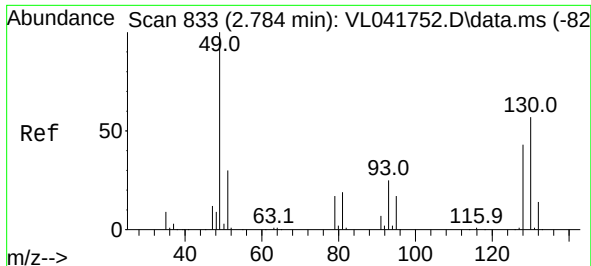
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 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Dec 19 06:12:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	7224	0.763	ppbv	96
47) 1,1,2-Trichloroethane	6.584	97	14858	2.078	ppbv	89
48) Dibromochloromethane	7.390	129	19764	2.024	ppbv	98
49) Bromoform	9.484	173	16200	2.027	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	42045	2.098	ppbv	97
51) 2-Hexanone	7.441	43	34878	2.147	ppbv #	98
52) Tetrachloroethene	8.225	164	13612	1.932	ppbv	93
53) Toluene	6.933	91	44470	2.072	ppbv	99
54) 1,2-Dibromoethane	7.655	107	19820	2.012	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.924	131	18613	2.141	ppbv	98
57) Chlorobenzene	8.920	112	35685	2.127	ppbv	99
58) Ethyl Benzene	9.354	91	63316	2.145	ppbv	97
59) m/p-Xylene	9.555	91	48921	2.060	ppbv #	100
60) o-Xylene	9.966	91	51152	2.149	ppbv	99
61) Styrene	9.872	104	20842	2.025	ppbv	96
62) Isopropylbenzene	10.539	105	75206	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	29751	1.997	ppbv	100
64) n-propylbenzene	10.992	120	19146	2.117	ppbv	99
65) tert-Butylbenzene	11.532	119	68879	2.135	ppbv	98
66) Benzyl Chloride	11.617	91	5400	1.898	ppbv	99
67) sec-Butylbenzene	11.769	105	95968	2.149	ppbv	100
69) p-Isopropyltoluene	11.927	119	79236	2.153	ppbv	100
70) n-Butylbenzene	12.283	91	75430	2.122	ppbv	99
71) 2-Chlorotoluene	10.901	91	57724	2.114	ppbv	99
72) 4-Ethyltoluene	11.125	105	58841	2.098	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	48645	2.087	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	53084	2.118	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	32609	2.040	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	32527	2.060	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	32223	2.095	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	25358	2.224	ppbv	98
79) Naphthalene	13.513	128	37855	2.167	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	4482	0.830	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	19425	2.035	ppbv	99

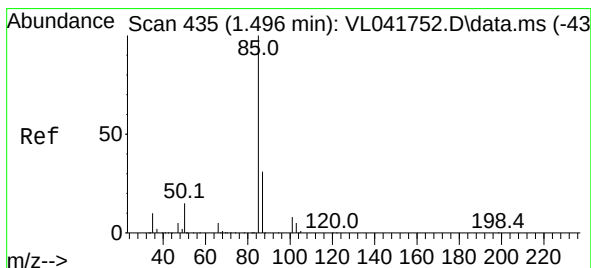
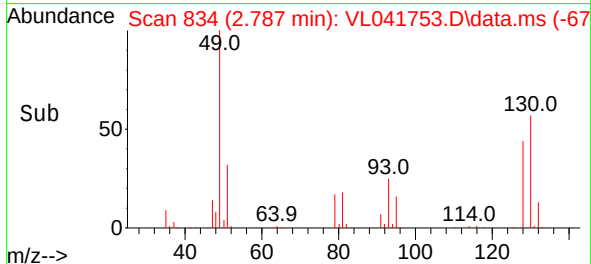
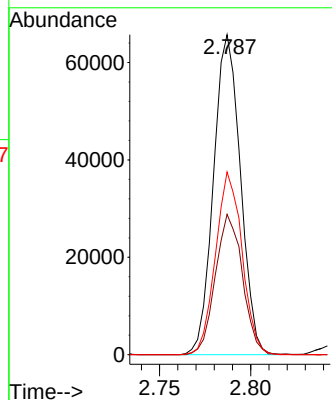
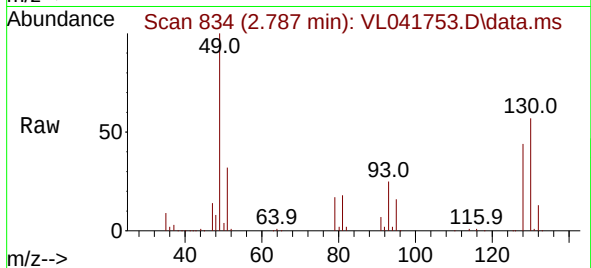
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

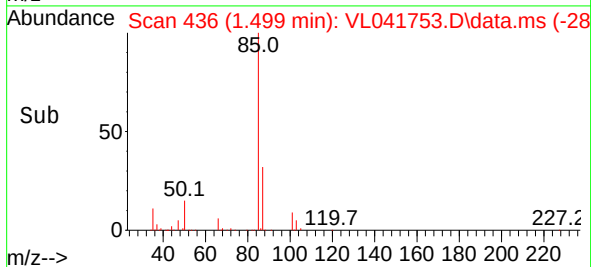
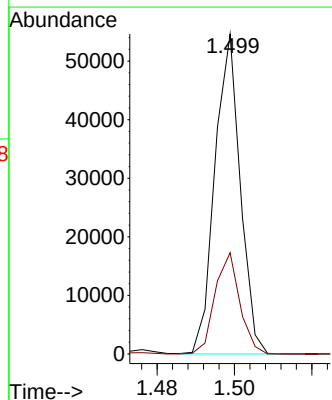
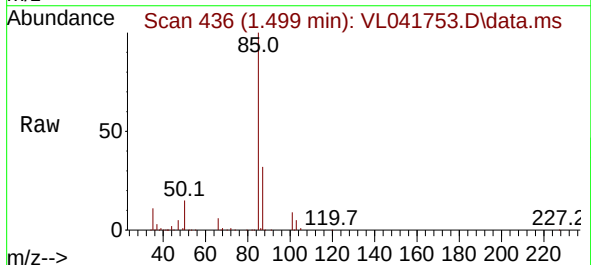
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

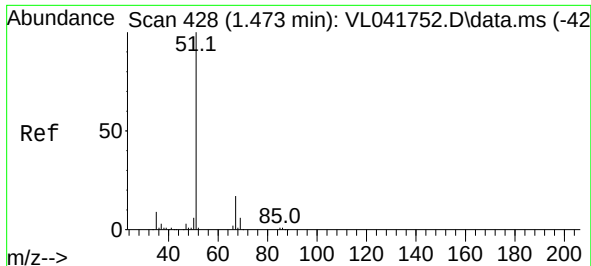
Tgt Ion: 49 Resp: 67443
Ion Ratio Lower Upper
49 100
128 44.1 21.6 64.6
130 56.3 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 85 Resp: 24819
Ion Ratio Lower Upper
85 100
87 31.6 24.5 36.7

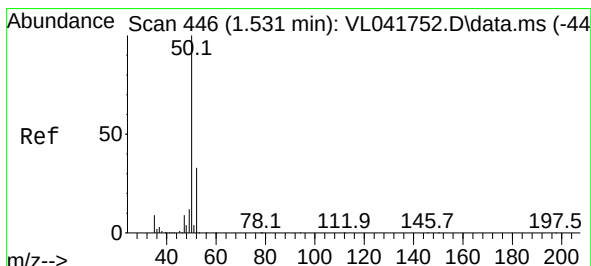
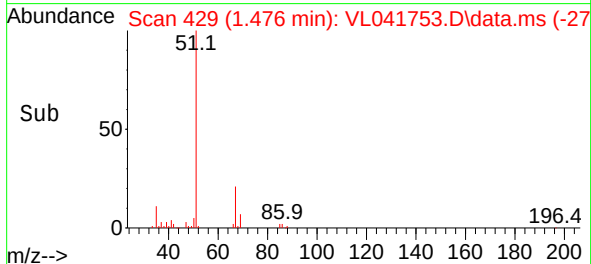
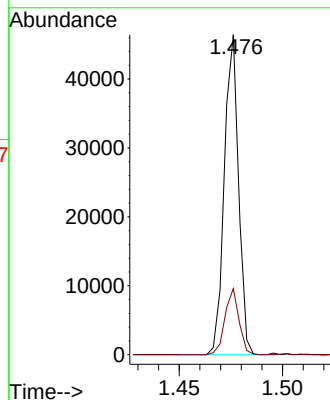
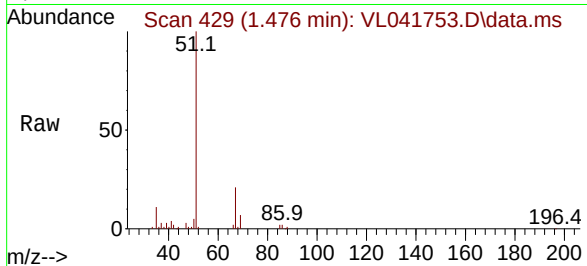




#3
Chlorodifluoromethane
Concen: 2.027 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

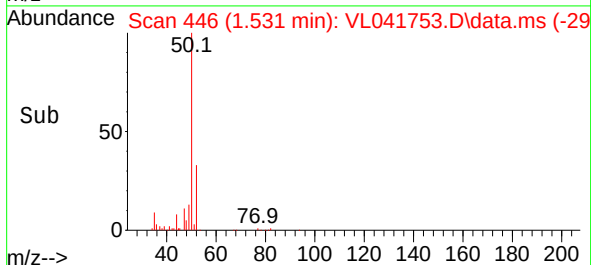
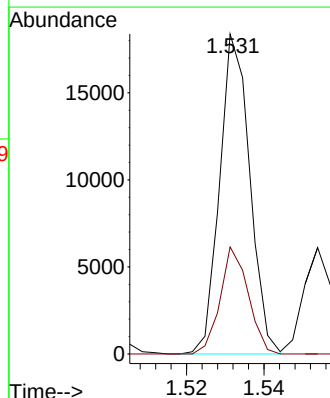
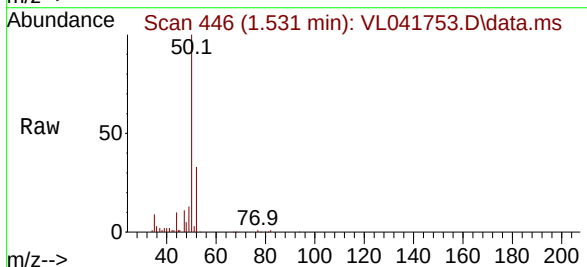
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

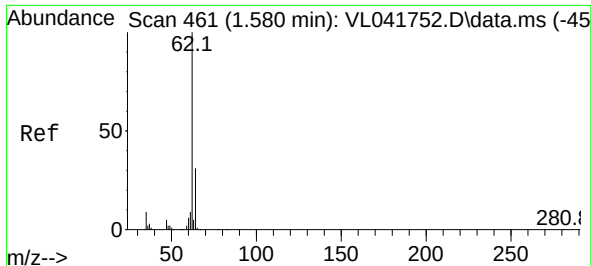
Tgt Ion: 51 Resp: 22299
Ion Ratio Lower Upper
51 100
67 20.5 15.0 22.4



#4
Chloromethane
Concen: 2.114 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 50 Resp: 9926
Ion Ratio Lower Upper
50 100
52 33.5 26.2 39.2

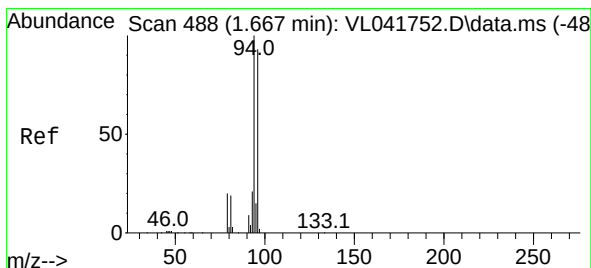
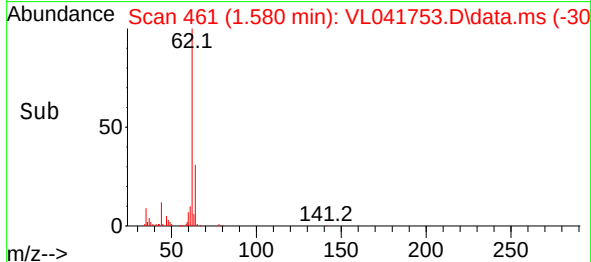
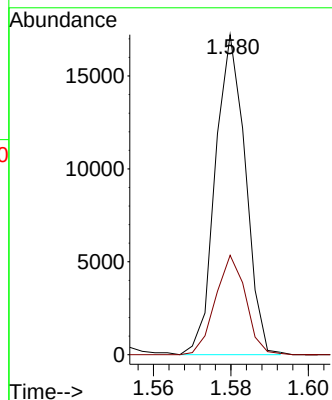
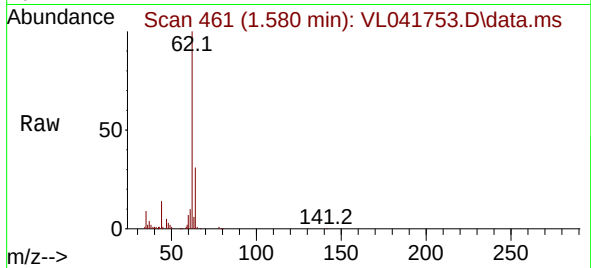




#5
 Vinyl Chloride
 Concen: 1.966 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

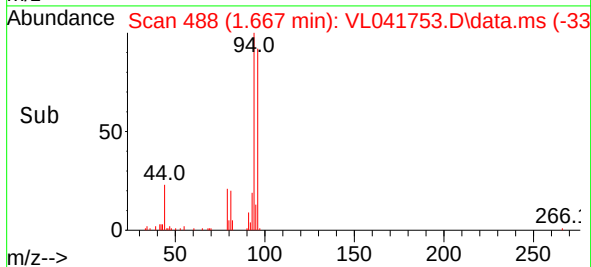
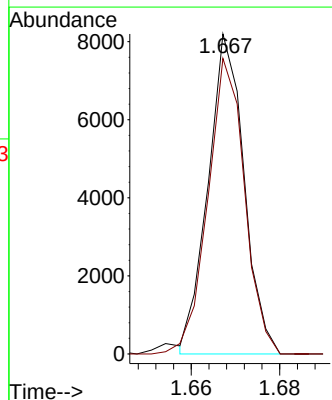
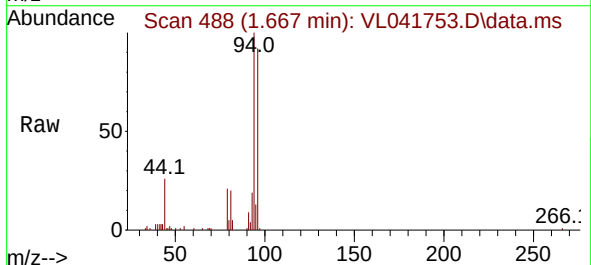
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

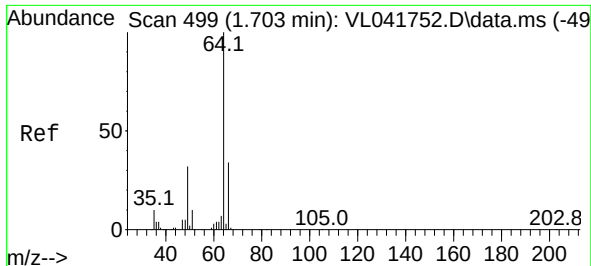
Tgt Ion: 62 Resp: 9300
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.1 37.7



#6
 Bromomethane
 Concen: 2.072 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

Tgt Ion: 94 Resp: 4625
 Ion Ratio Lower Upper
 94 100
 96 92.4 74.7 112.1

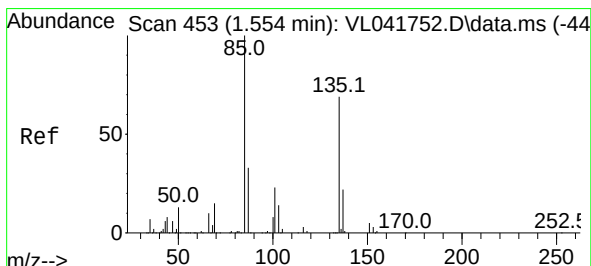
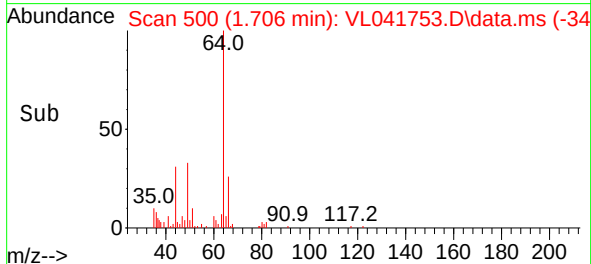
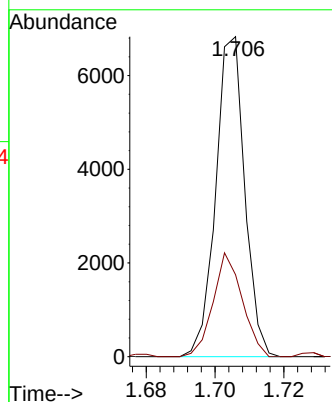
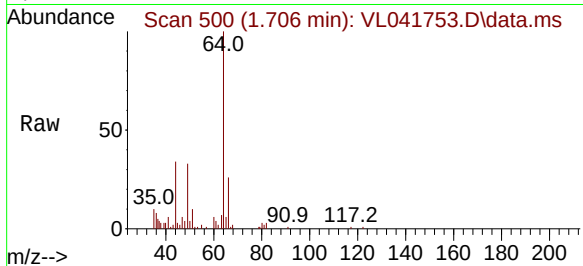




#7
Chloroethane
Concen: 2.178 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

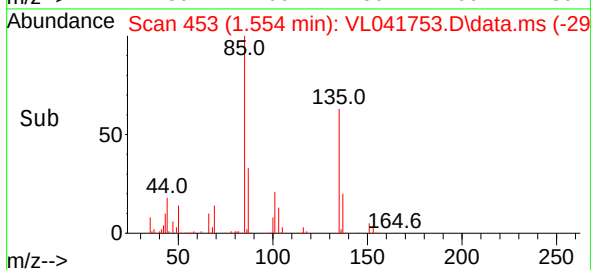
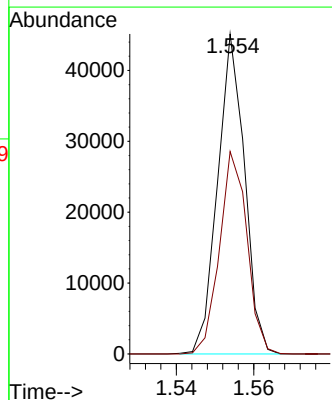
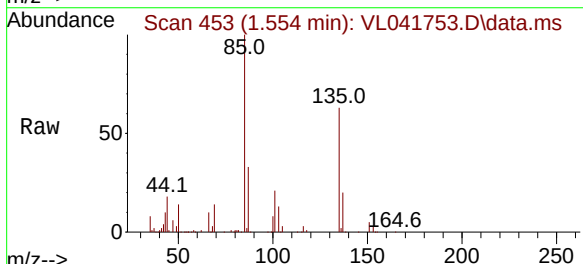
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

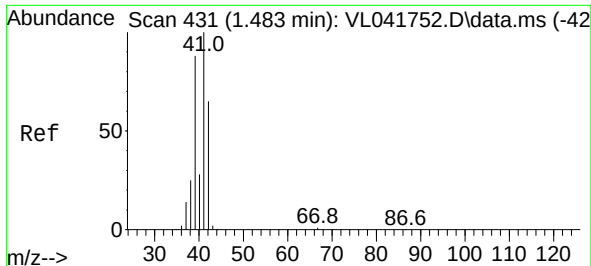
Tgt Ion: 64 Resp: 4003
Ion Ratio Lower Upper
64 100
66 25.6 27.5 41.3#



#8
Dichlorotetrafluoroethane
Concen: 2.029 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 85 Resp: 21791
Ion Ratio Lower Upper
85 100
135 64.8 51.9 77.9





#9

Propene

Concen: 2.122 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

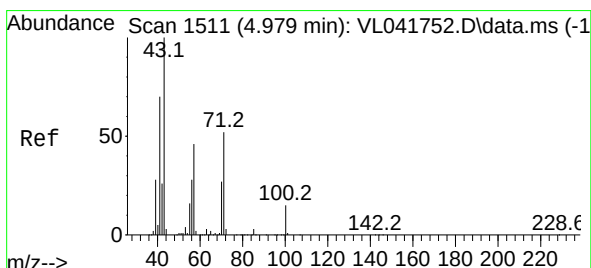
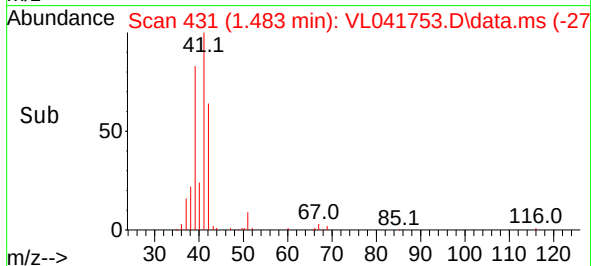
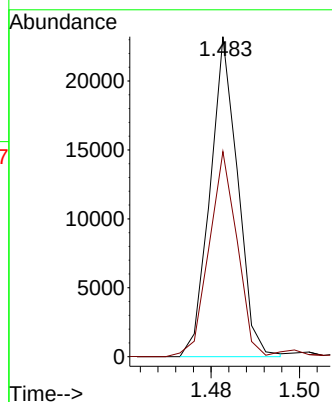
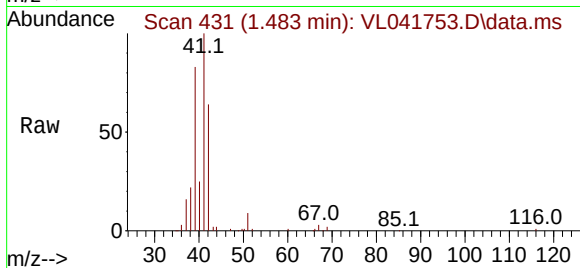
VSTDICC002

Tgt Ion: 41 Resp: 10115

Ion Ratio Lower Upper

41 100

42 67.9 52.4 78.6



#10

Heptane

Concen: 2.066 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL041753.D

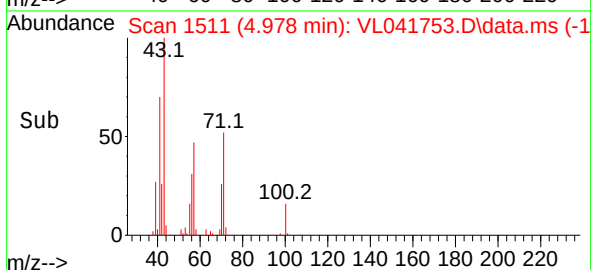
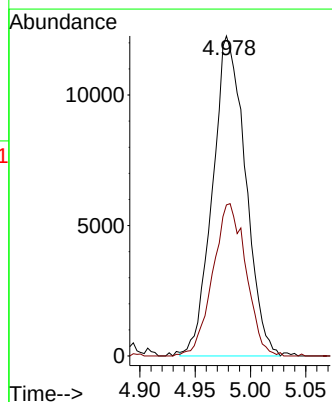
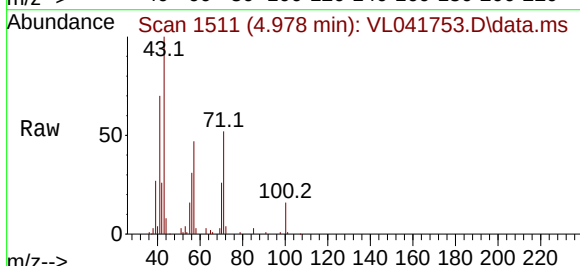
Acq: 16 Dec 2024 14:03

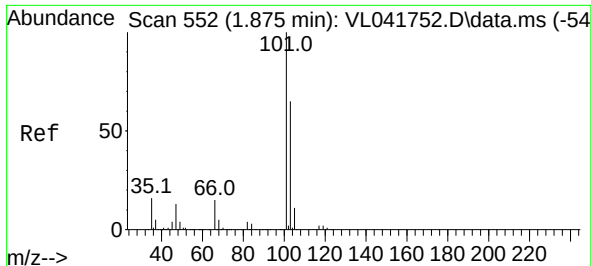
Tgt Ion: 43 Resp: 25297

Ion Ratio Lower Upper

43 100

57 48.1 38.5 57.7





#11

Trichlorofluoromethane

Concen: 2.056 ppbv

RT: 1.878 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

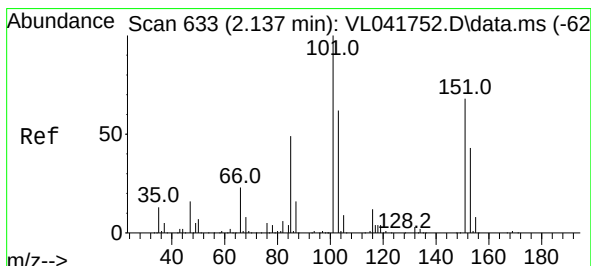
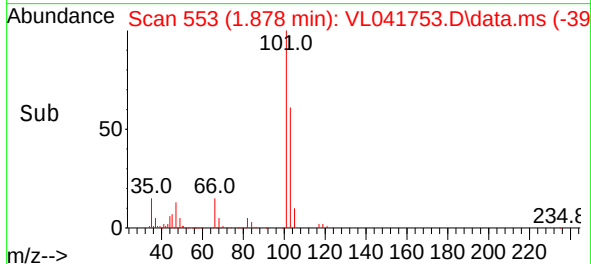
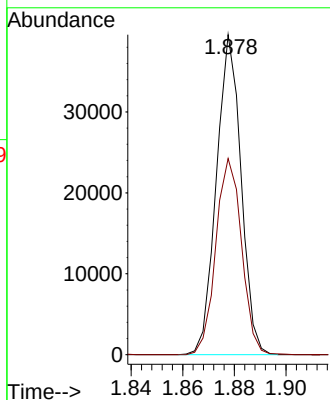
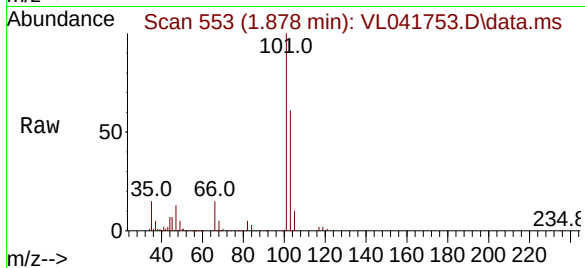
VSTDIC002

Tgt Ion:101 Resp: 26208

Ion Ratio Lower Upper

101 100

103 61.3 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.039 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL041753.D

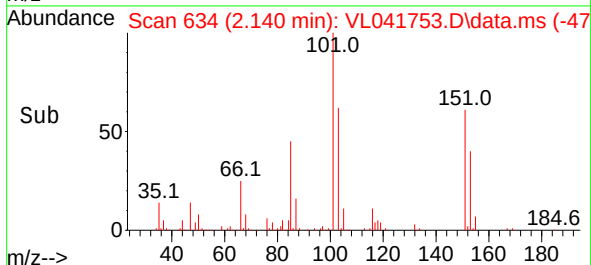
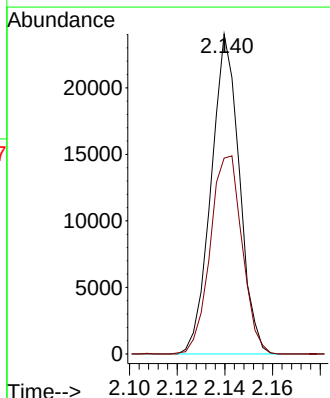
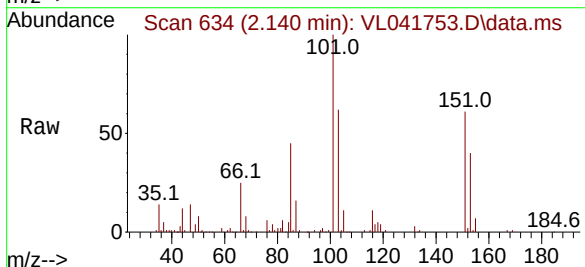
Acq: 16 Dec 2024 14:03

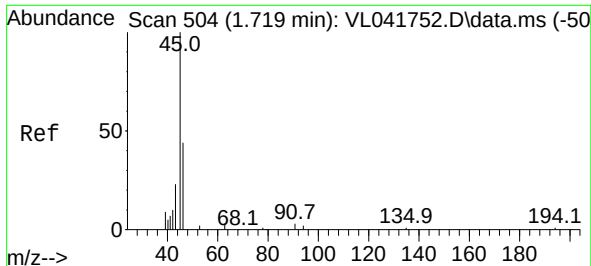
Tgt Ion:101 Resp: 19770

Ion Ratio Lower Upper

101 100

151 70.2 56.8 85.2





#13

Ethanol

Concen: 1.998 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

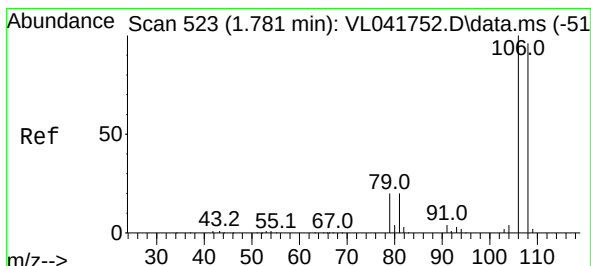
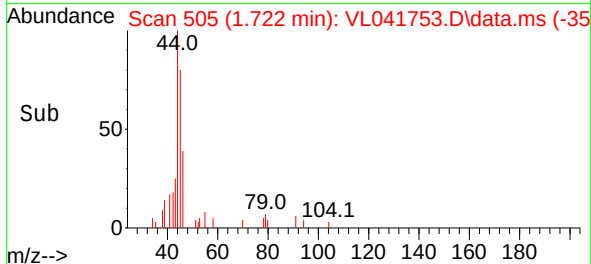
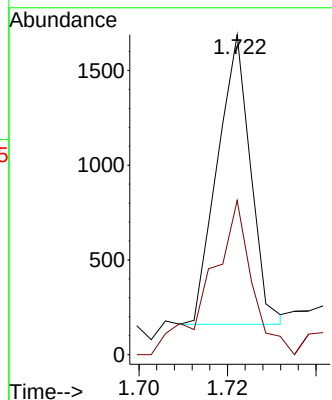
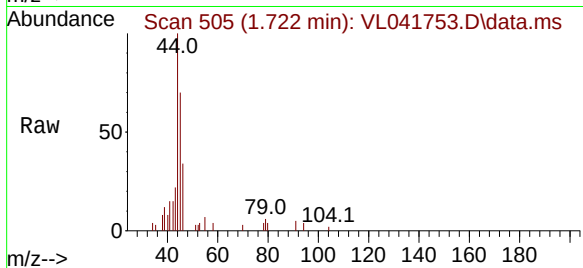
VSTDIC002

Tgt Ion: 45 Resp: 792

Ion Ratio Lower Upper

45 100

46 72.9 16.4 65.8#



#14

Bromoethene

Concen: 1.994 ppbv

RT: 1.784 min Scan# 524

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

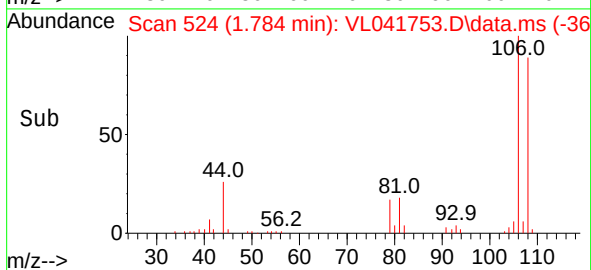
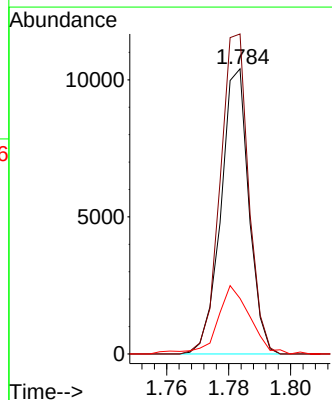
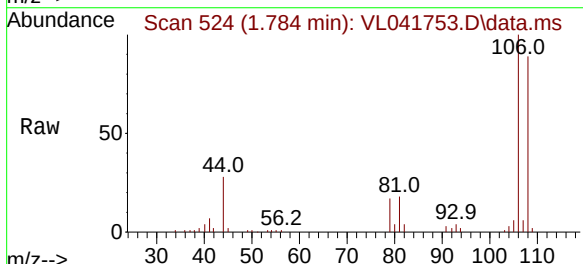
Tgt Ion: 108 Resp: 6527

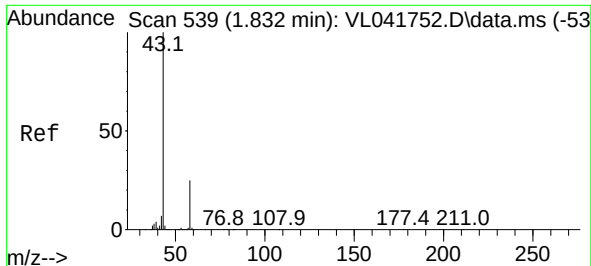
Ion Ratio Lower Upper

108 100

106 114.2 84.1 126.1

79 28.0 17.4 26.0#





#15

Acetone

Concen: 2.104 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

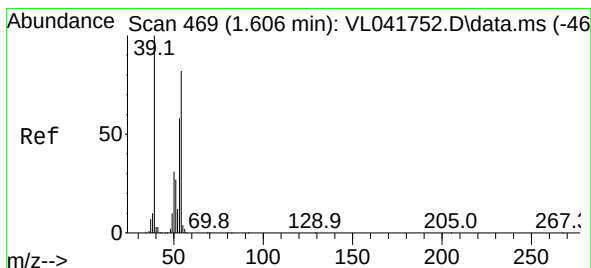
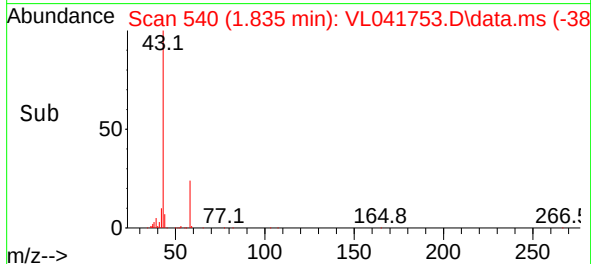
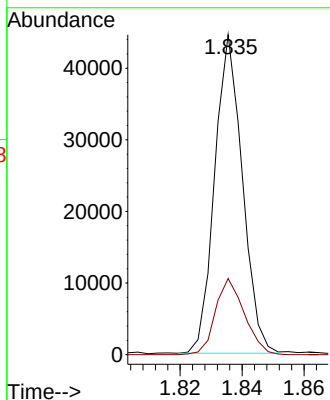
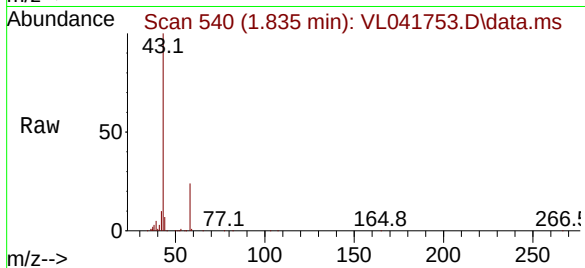
VSTDICC002

Tgt Ion: 43 Resp: 27613

Ion Ratio Lower Upper

43 100

58 25.0 19.7 29.5



#16

1,3-Butadiene

Concen: 2.028 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL041753.D

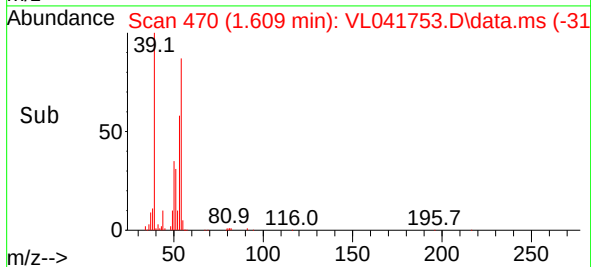
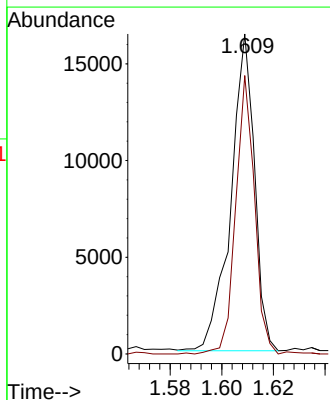
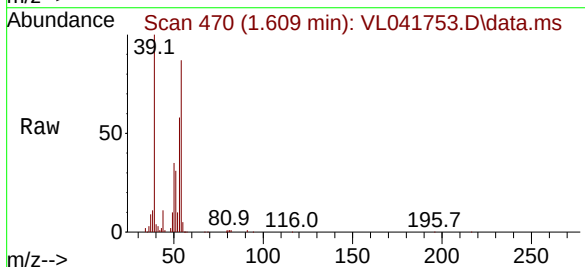
Acq: 16 Dec 2024 14:03

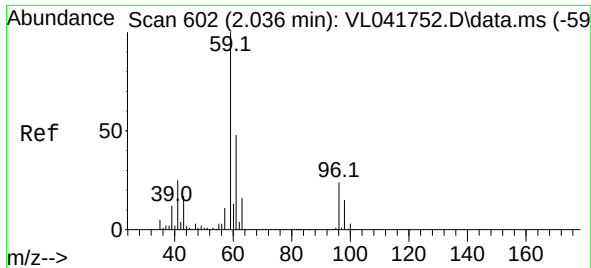
Tgt Ion: 39 Resp: 10478

Ion Ratio Lower Upper

39 100

54 70.0 58.4 87.6

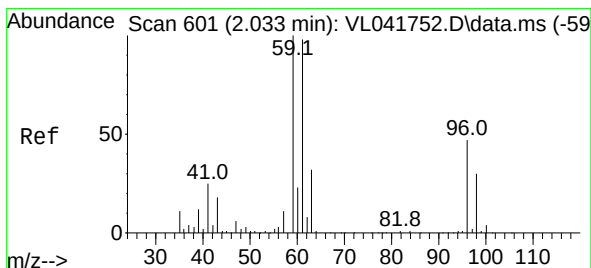
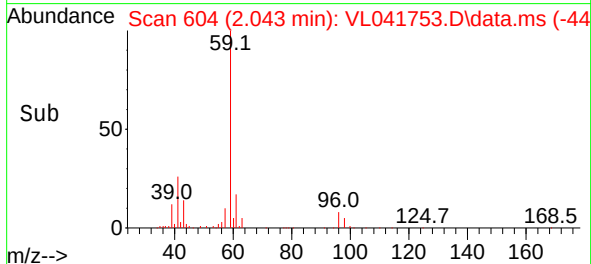
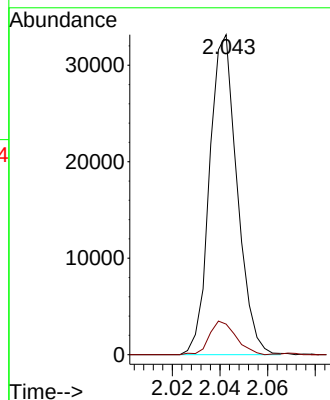
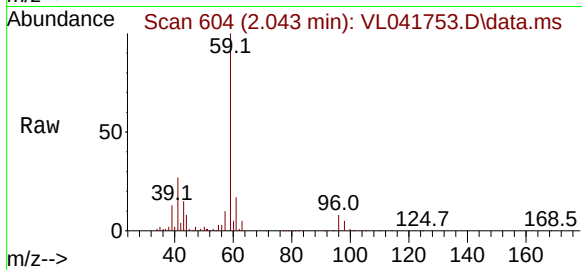




#17
tert-Butyl alcohol
Concen: 2.047 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

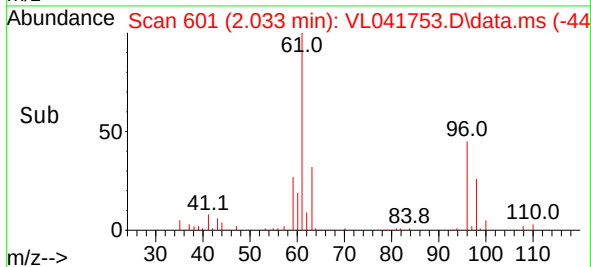
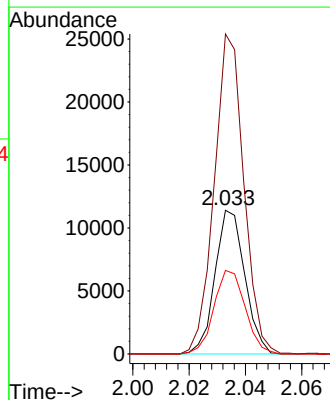
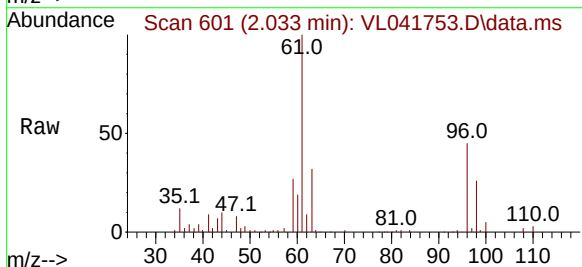
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

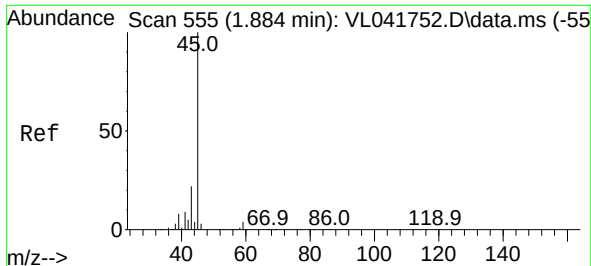
Tgt Ion: 59 Resp: 26646
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0



#18
1,1-Dichloroethene
Concen: 2.064 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 96 Resp: 8389
Ion Ratio Lower Upper
96 100
61 222.7 167.7 251.5
98 58.2 51.1 76.7





#19

Isopropyl Alcohol

Concen: 1.897 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

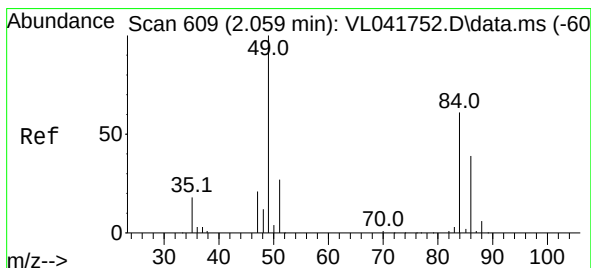
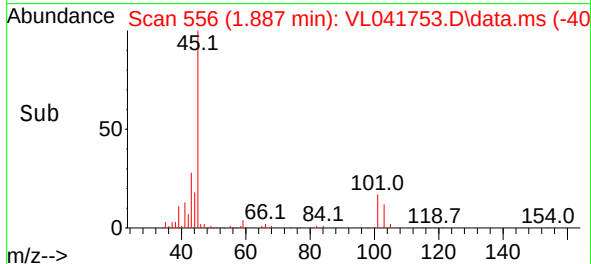
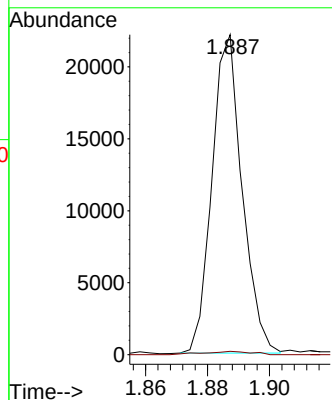
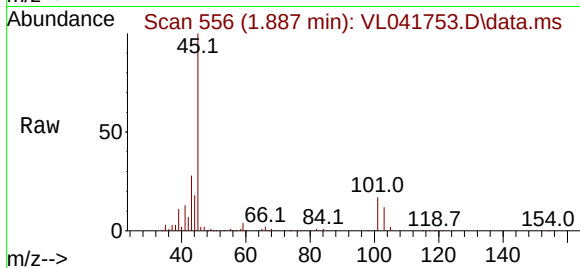
VSTDICC002

Tgt Ion: 45 Resp: 14937

Ion Ratio Lower Upper

45 100

58 46.2 33.3 49.9



#20

Methylene Chloride

Concen: 2.027 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 84 Resp: 7586

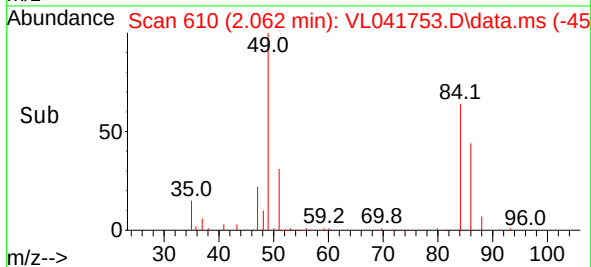
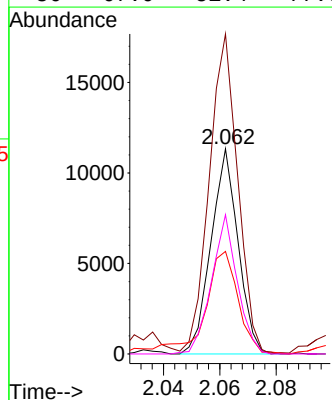
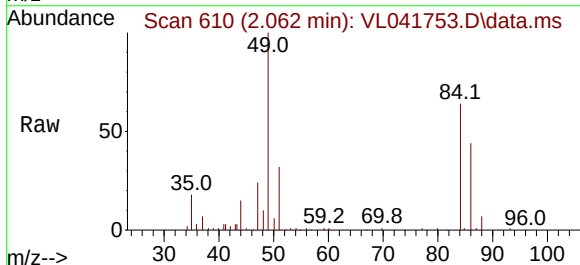
Ion Ratio Lower Upper

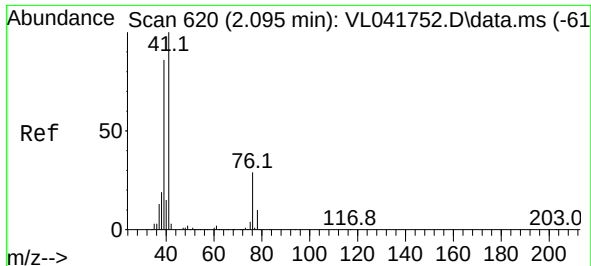
84 100

49 155.5 132.6 198.8

51 49.5 37.6 56.4

86 67.9 51.4 77.0

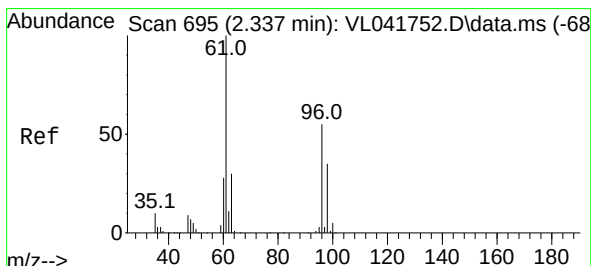
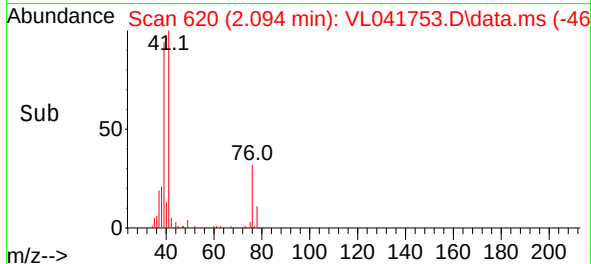
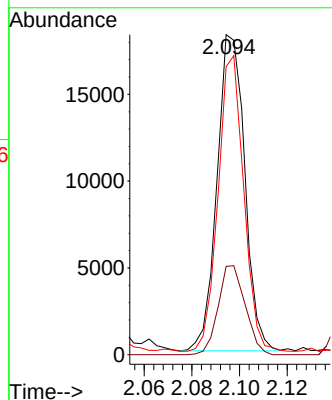
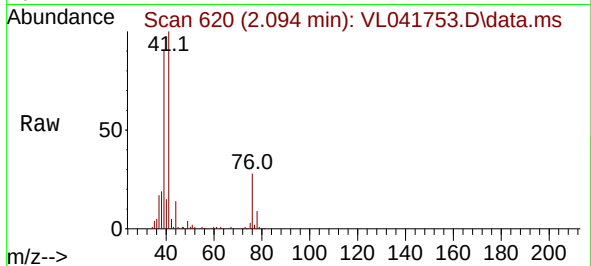




#21
 Allyl Chloride
 Concen: 2.070 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

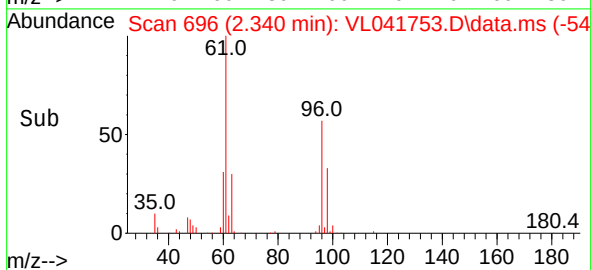
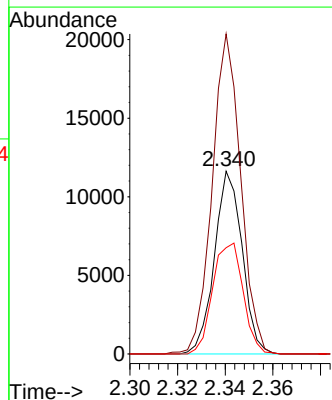
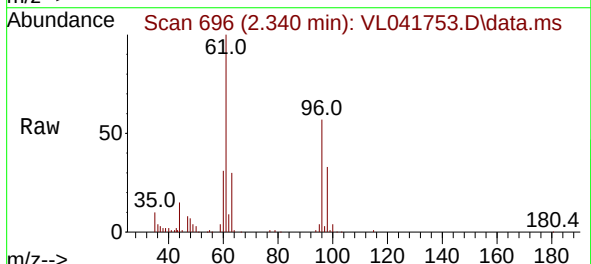
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

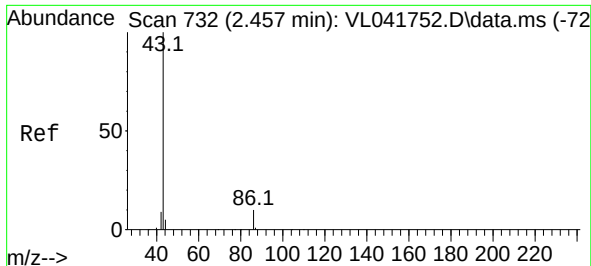
Tgt Ion: 41 Resp: 14731
 Ion Ratio Lower Upper
 41 100
 76 27.4 22.3 33.5
 39 85.3 69.2 103.8



#22
 trans-1,2-Dichloroethene
 Concen: 2.022 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

Tgt Ion: 96 Resp: 9407
 Ion Ratio Lower Upper
 96 100
 61 175.1 146.3 219.5
 98 58.2 50.8 76.2



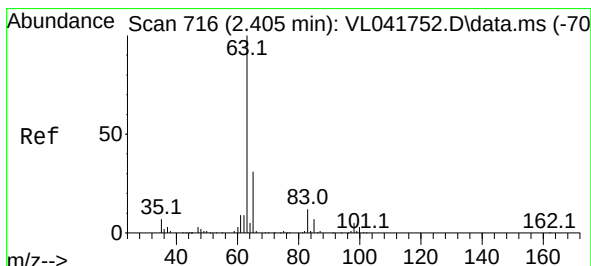
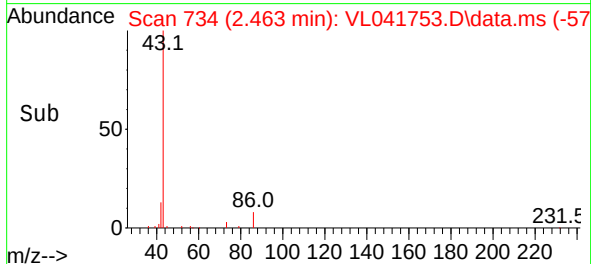
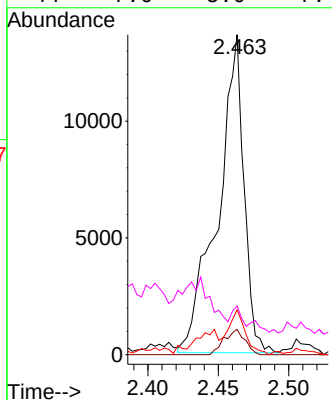
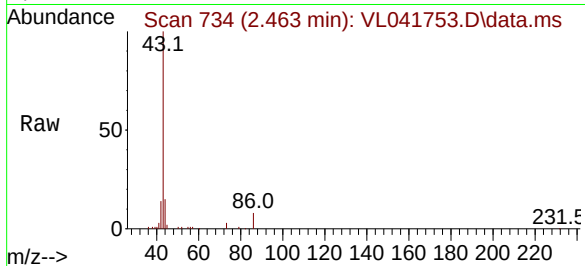


#23
 Vinyl Acetate
 Concen: 3.096 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 43 Resp: 17652

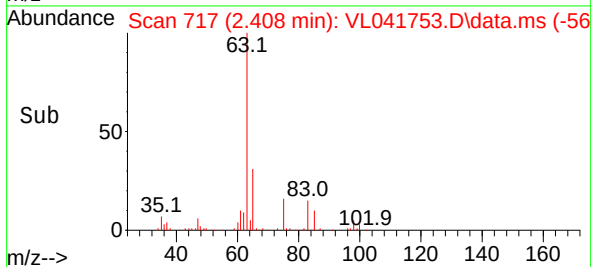
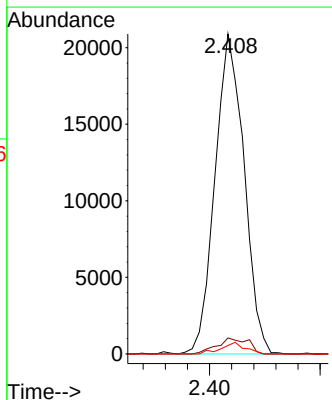
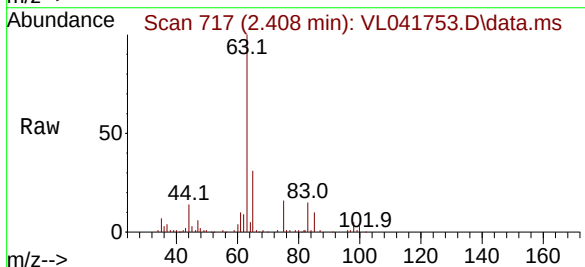
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.6	10.0
42	13.0	8.2	12.2#
44	7.6	5.0	7.4#

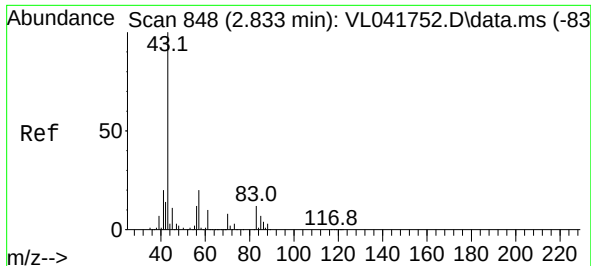


#24
 1,1-Dichloroethane
 Concen: 2.025 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

Tgt Ion: 63 Resp: 19070

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.3	6.8
100	2.7	1.4	4.2



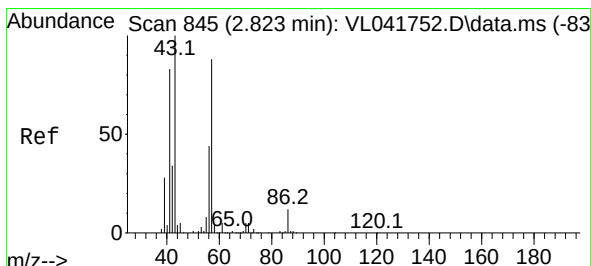
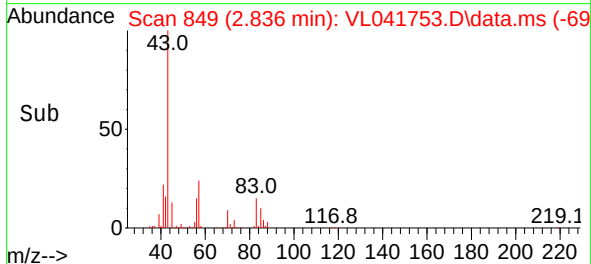
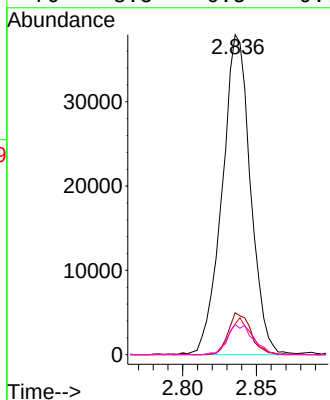
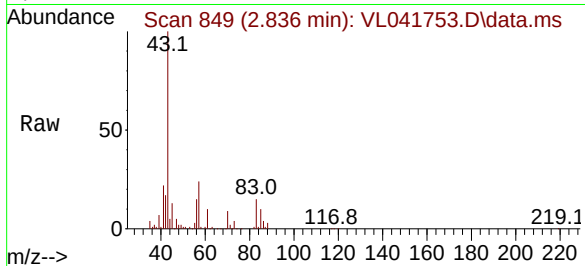


#25
Ethyl Acetate
Concen: 2.059 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 50510

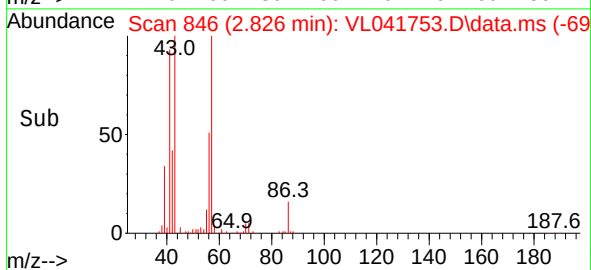
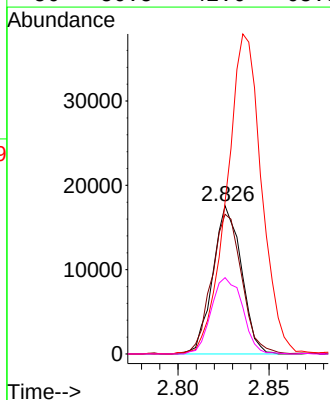
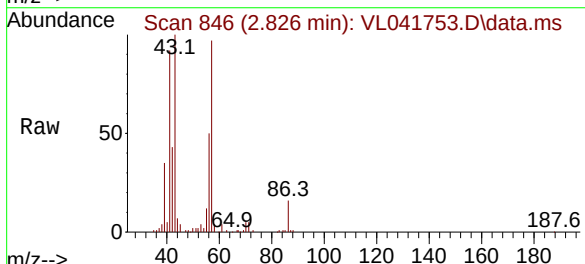
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.1	12.1
61	9.0	7.0	10.6
70	8.5	6.5	9.7

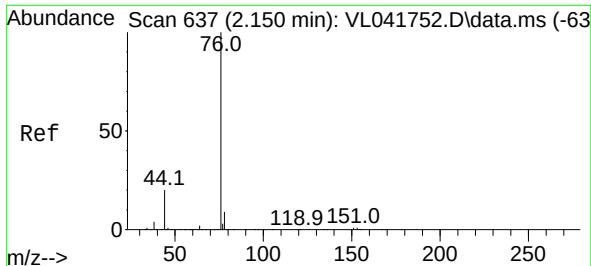


#26
Hexane
Concen: 2.073 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 57 Resp: 19200

Ion	Ratio	Lower	Upper
57	100		
41	100.7	79.6	119.4
43	266.5	211.0	316.6
56	56.5	42.6	63.8





#27

Carbon Disulfide

Concen: 1.942 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

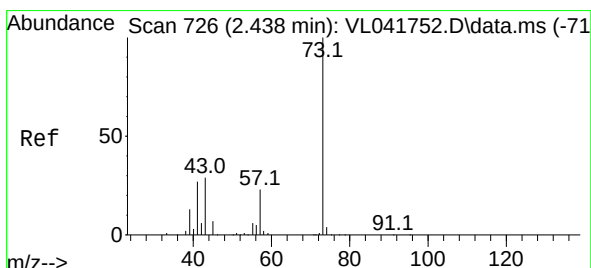
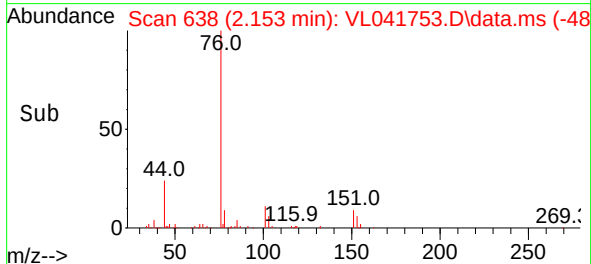
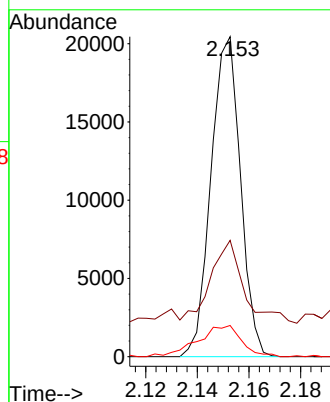
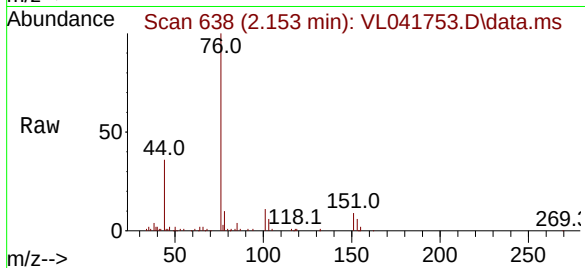
Tgt Ion: 76 Resp: 16214

Ion Ratio Lower Upper

76 100

44 70.4 17.6 26.4#

78 14.6 10.2 15.4



#28

Methyl tert-Butyl Ether

Concen: 2.001 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.003 min

Lab File: VL041753.D

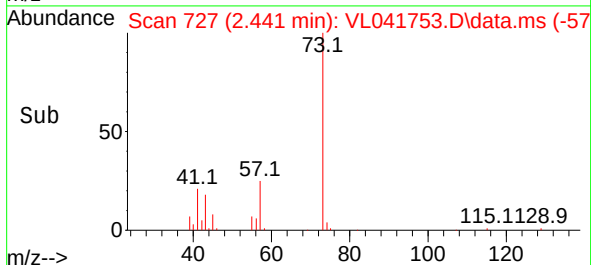
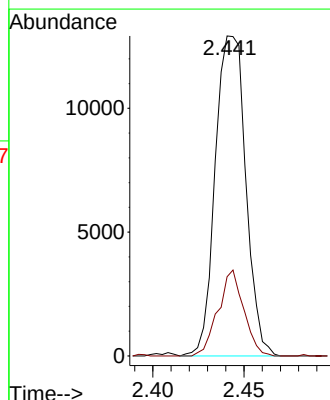
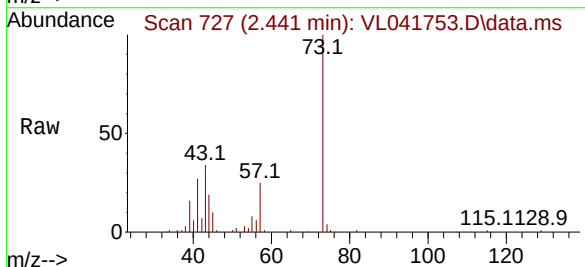
Acq: 16 Dec 2024 14:03

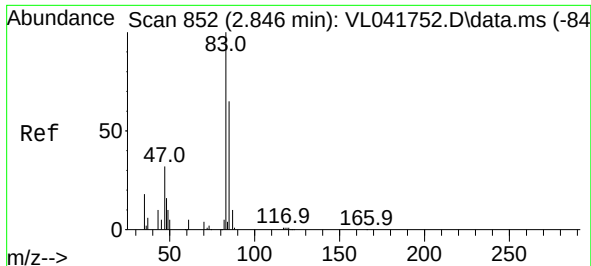
Tgt Ion: 73 Resp: 15039

Ion Ratio Lower Upper

73 100

57 22.8 17.6 26.4





#29

Chloroform

Concen: 2.043 ppbv

RT: 2.849 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

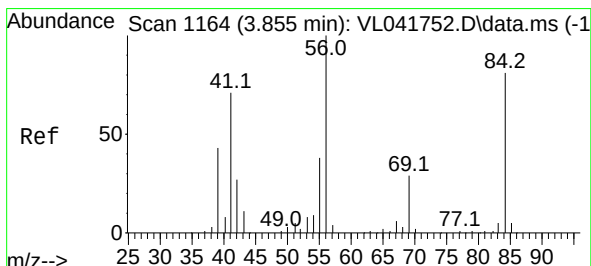
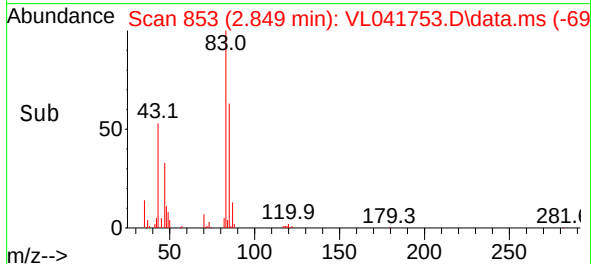
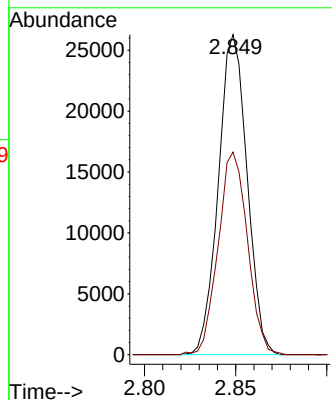
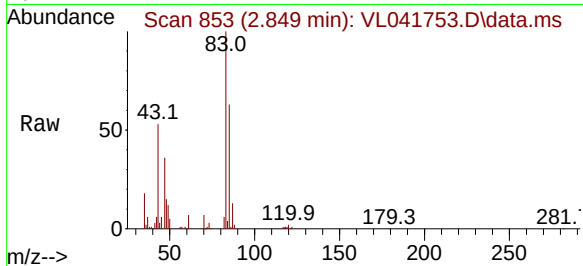
VSTDICC002

Tgt Ion: 83 Resp: 28843

Ion Ratio Lower Upper

83 100

85 63.3 51.8 77.6



#30

Cyclohexane

Concen: 2.079 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

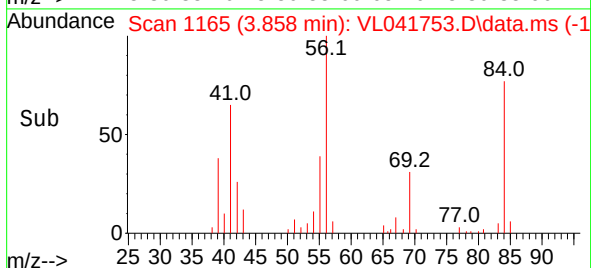
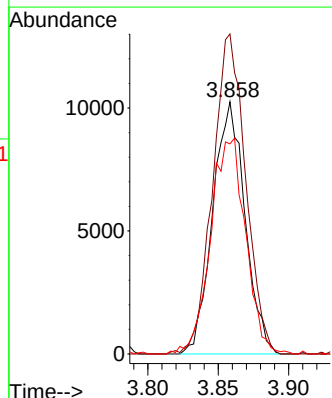
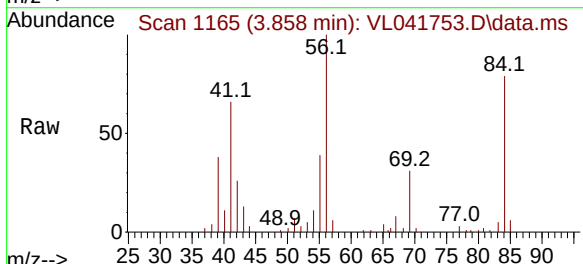
Tgt Ion: 84 Resp: 16384

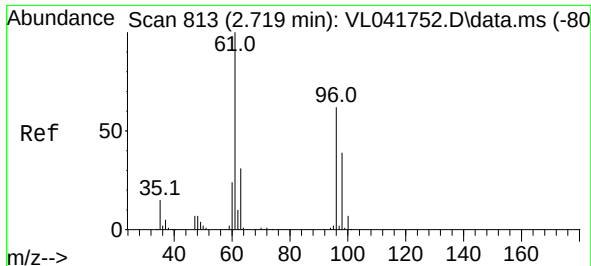
Ion Ratio Lower Upper

84 100

56 129.2 102.3 153.5

41 92.9 74.0 111.0





#31

cis-1,2-Dichloroethene

Concen: 2.057 ppbv

RT: 2.719 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

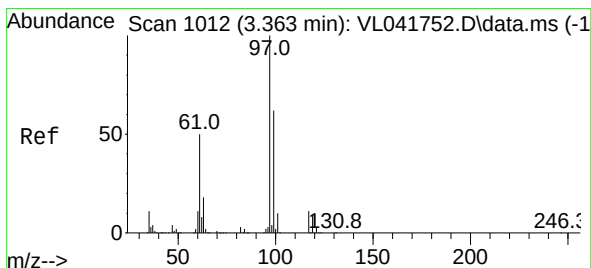
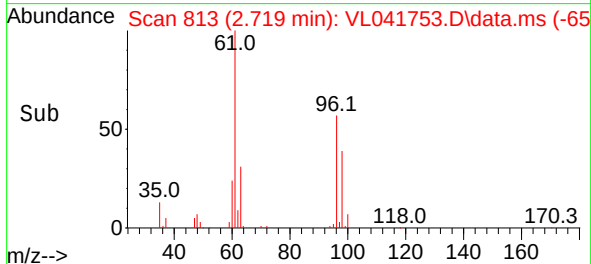
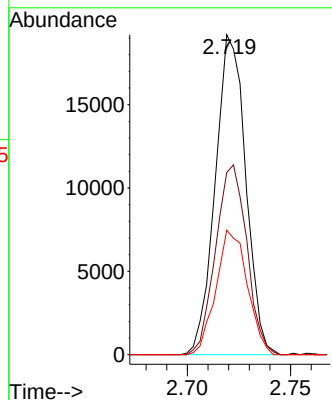
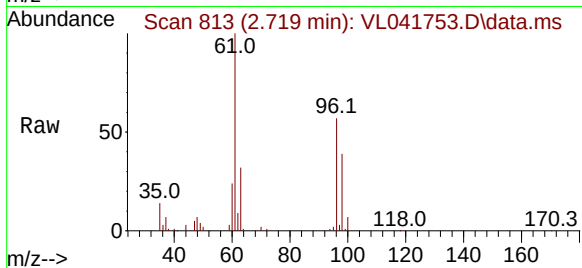
Tgt Ion: 61 Resp: 19688

Ion Ratio Lower Upper

61 100

96 56.9 49.7 74.5

98 38.9 30.8 46.2



#32

1,1,1-Trichloroethane

Concen: 2.017 ppbv

RT: 3.370 min Scan# 1014

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

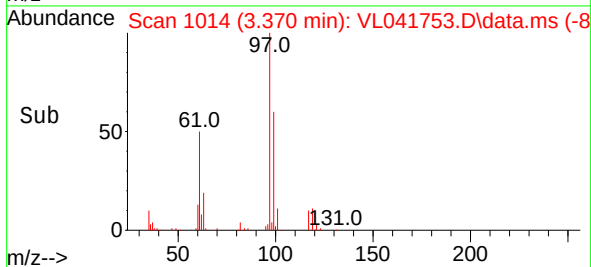
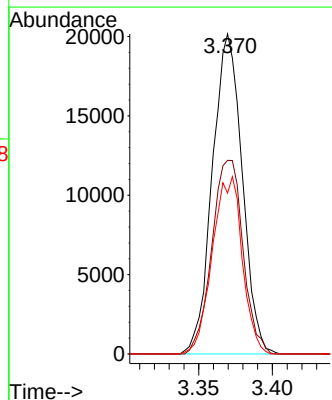
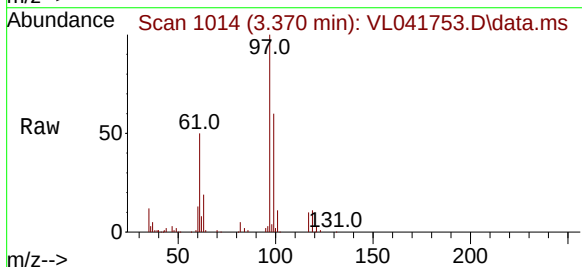
Tgt Ion: 97 Resp: 28341

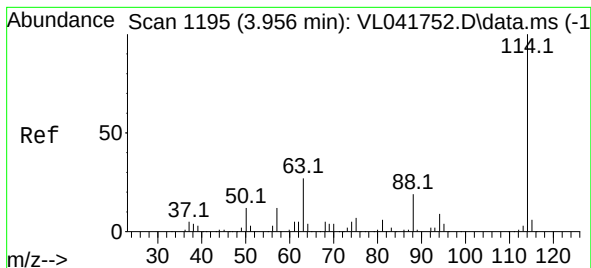
Ion Ratio Lower Upper

97 100

99 63.3 51.0 76.4

61 55.5 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

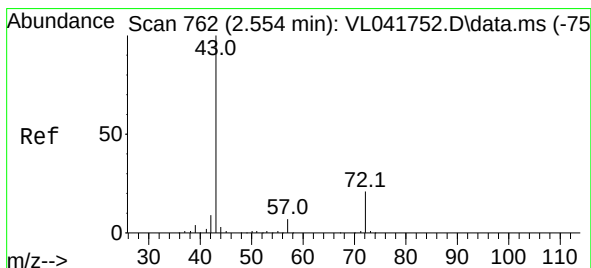
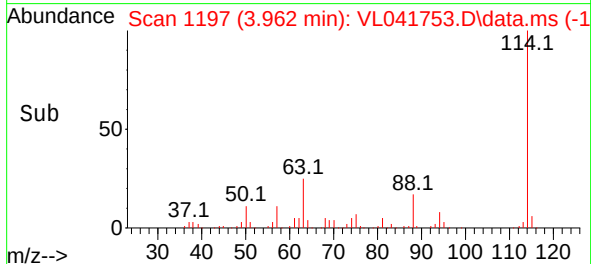
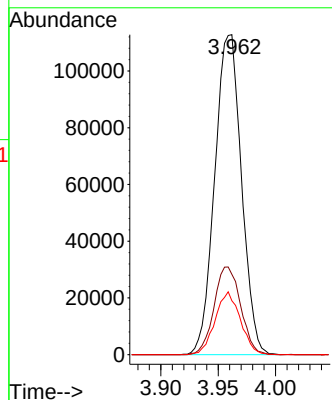
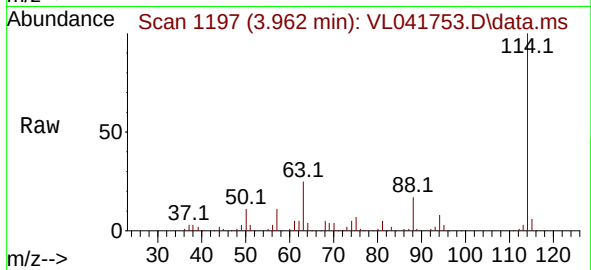
Tgt Ion:114 Resp: 182992

Ion Ratio Lower Upper

114 100

63 27.3 21.8 32.8

88 18.5 14.8 22.2



#34

2-Butanone

Concen: 2.138 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL041753.D

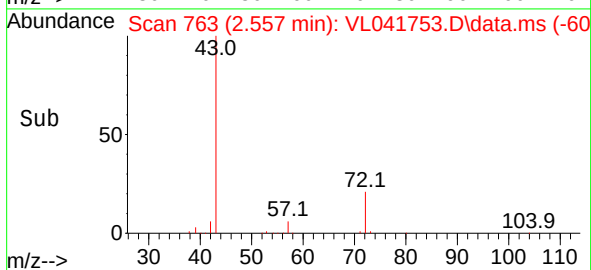
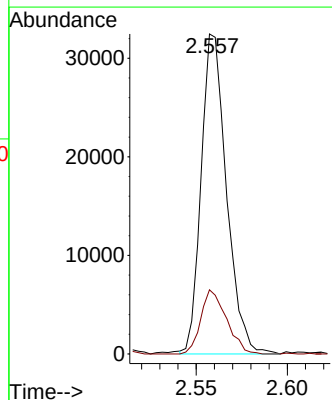
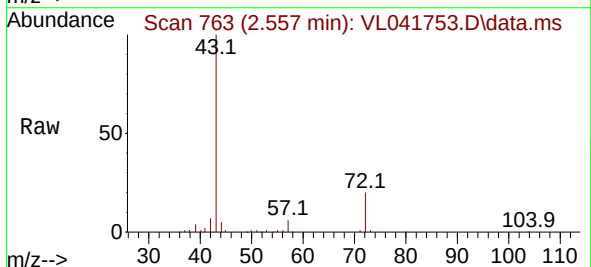
Acq: 16 Dec 2024 14:03

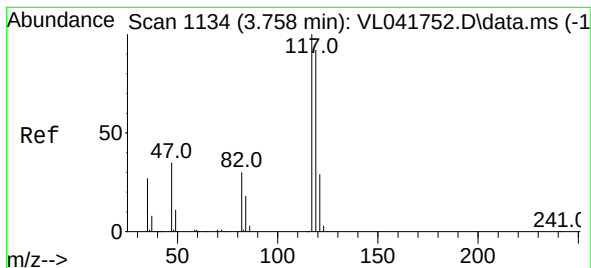
Tgt Ion: 43 Resp: 31483

Ion Ratio Lower Upper

43 100

72 20.4 16.8 25.2





#35

Carbon Tetrachloride

Concen: 2.134 ppbv

RT: 3.765 min Scan# 1136

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

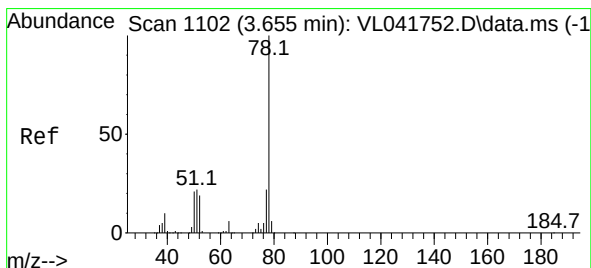
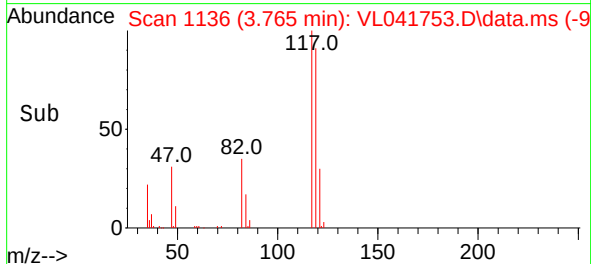
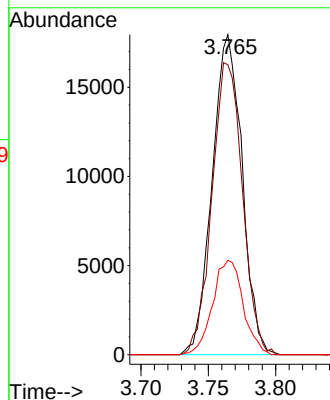
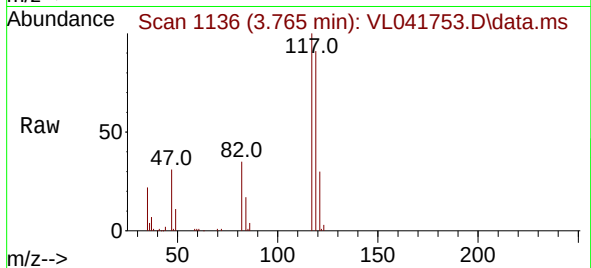
Tgt Ion:117 Resp: 27727

Ion Ratio Lower Upper

117 100

119 90.6 73.7 110.5

121 29.5 23.0 34.4



#36

Benzene

Concen: 2.048 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

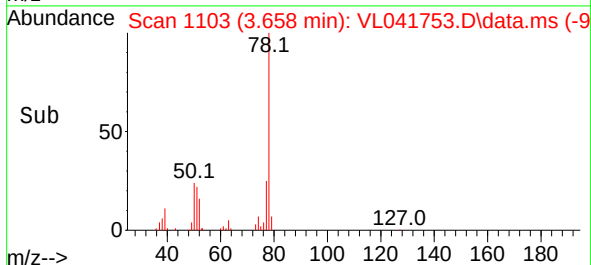
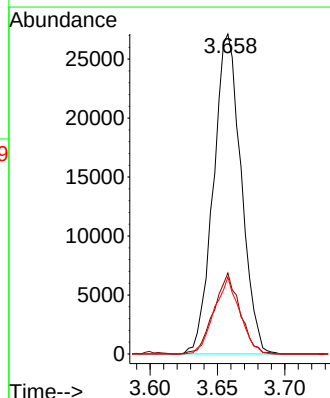
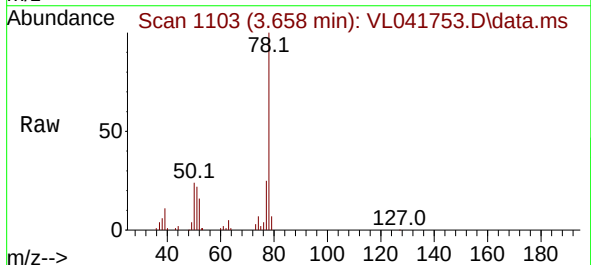
Tgt Ion: 78 Resp: 38759

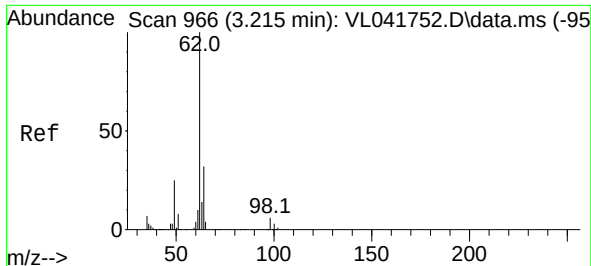
Ion Ratio Lower Upper

78 100

77 25.3 17.8 26.6

50 24.0 17.2 25.8

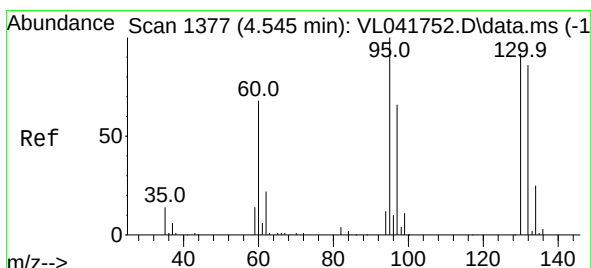
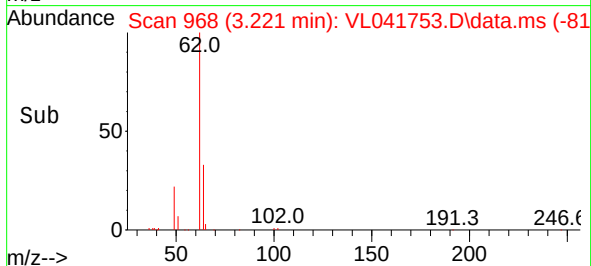
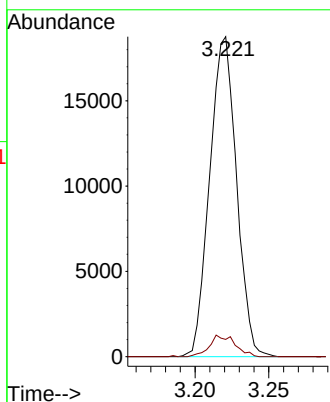
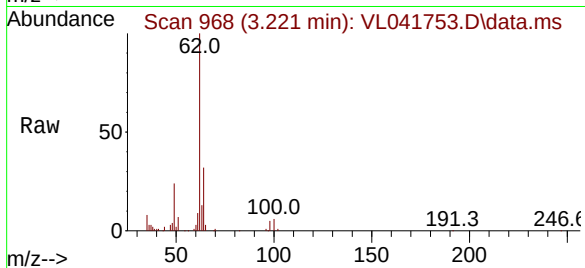




#37
1,2-Dichloroethane
Concen: 2.021 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

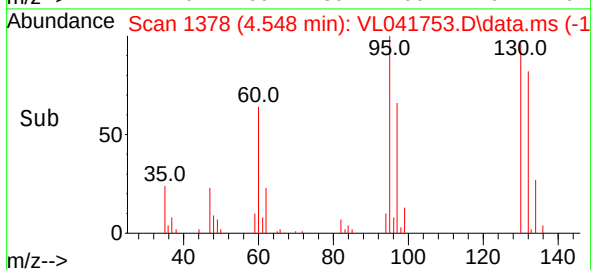
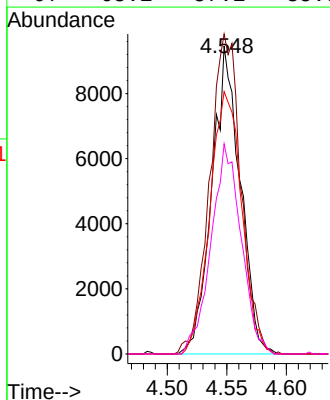
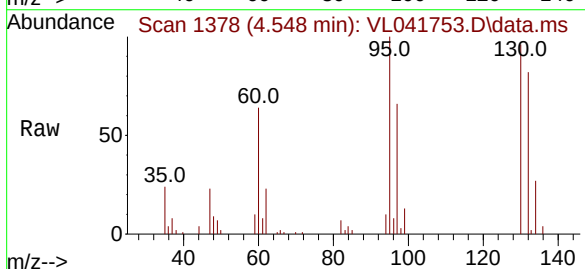
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

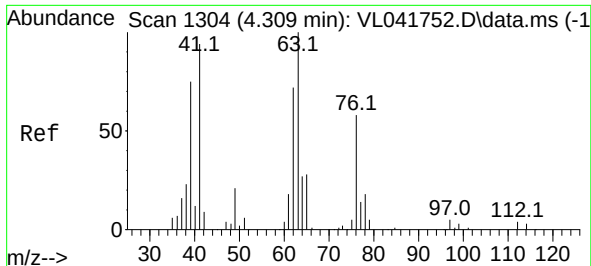
Tgt Ion: 62 Resp: 23800
Ion Ratio Lower Upper
62 100
98 6.4 4.7 7.1



#38
Trichloroethene
Concen: 1.965 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:130 Resp: 15660
Ion Ratio Lower Upper
130 100
95 103.3 87.0 130.6
132 85.2 75.0 112.6
97 68.2 57.2 85.8





#39

1,2-Dichloropropane

Concen: 2.074 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

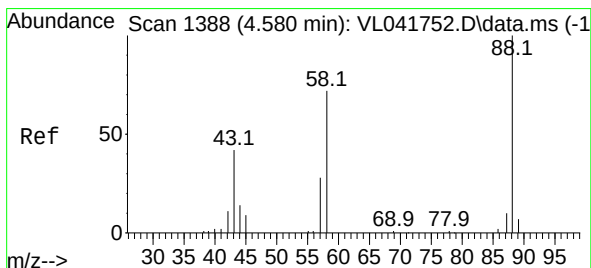
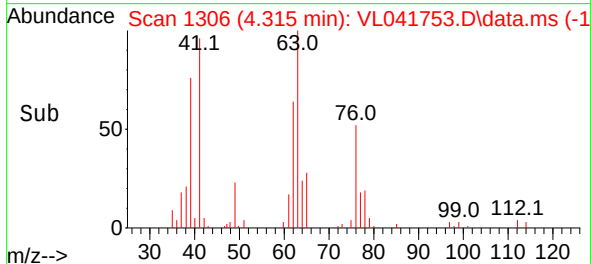
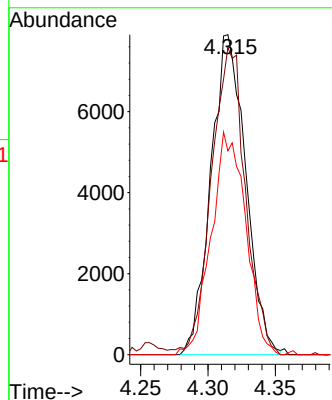
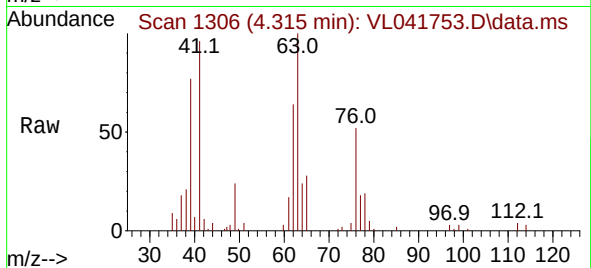
Tgt Ion: 63 Resp: 14197

Ion Ratio Lower Upper

63 100

41 95.9 75.3 112.9

62 62.4 57.3 85.9



#40

1,4-Dioxane

Concen: 0.920 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.016 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion: 88 Resp: 3078

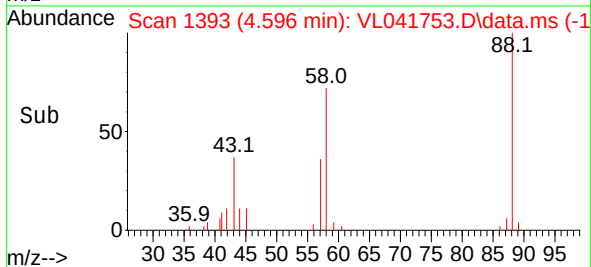
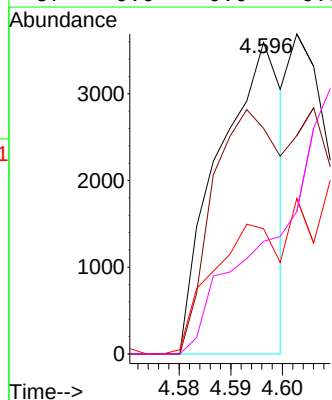
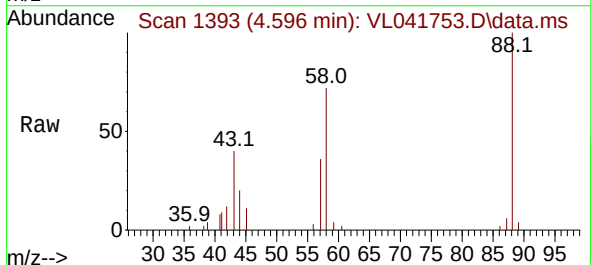
Ion Ratio Lower Upper

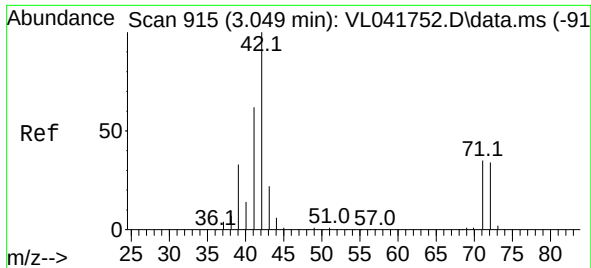
88 100

58 0.0 61.0 91.6#

43 0.0 29.4 44.0#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 2.021 ppbv

RT: 3.059 min Scan# 915

Delta R.T. 0.009 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

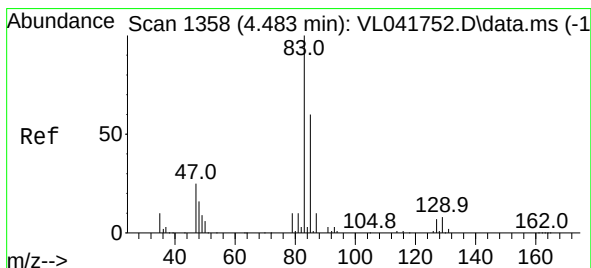
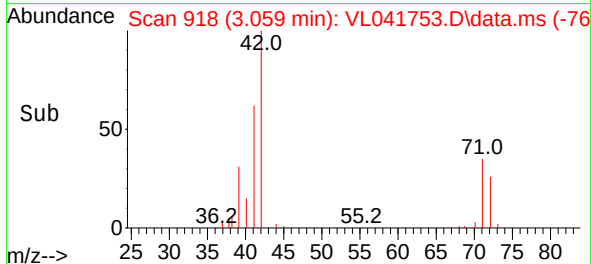
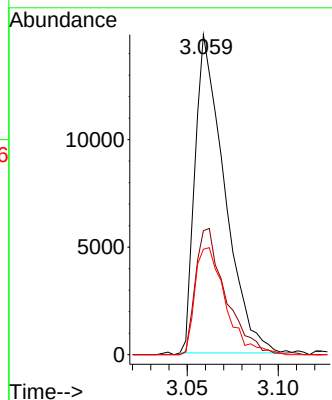
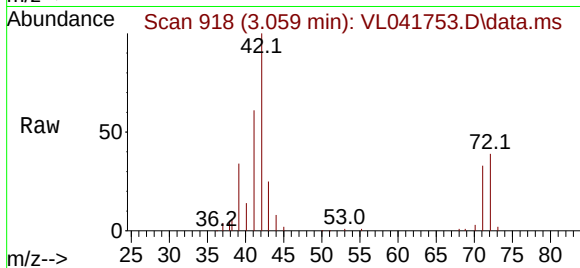
Tgt Ion: 42 Resp: 16665

Ion Ratio Lower Upper

42 100

72 40.7 29.1 43.7

71 34.9 28.4 42.6



#42

Bromodichloromethane

Concen: 1.972 ppbv

RT: 4.489 min Scan# 1360

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

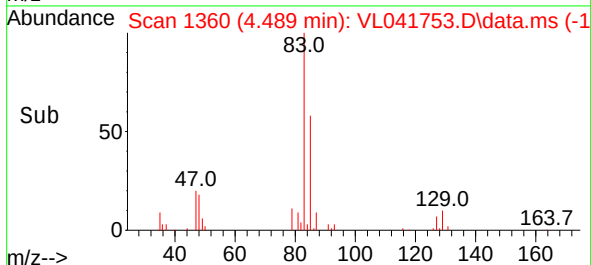
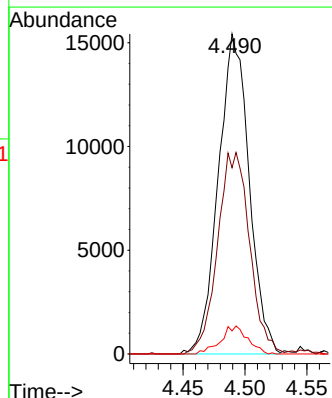
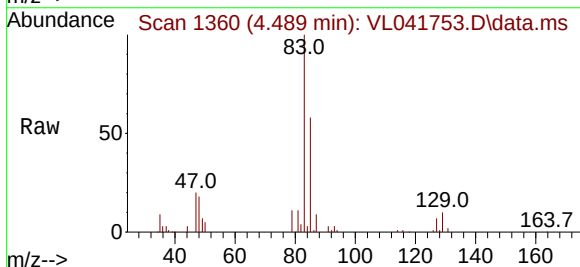
Tgt Ion: 83 Resp: 26716

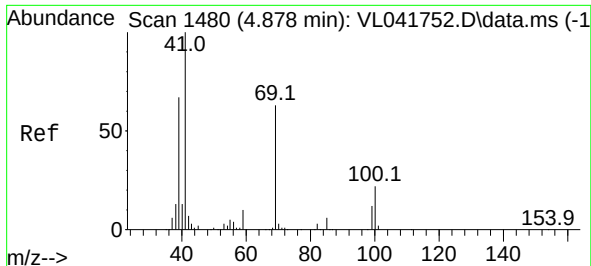
Ion Ratio Lower Upper

83 100

85 58.2 48.0 72.0

127 7.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 2.059 ppbv

RT: 4.884 min Scan# 1480

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

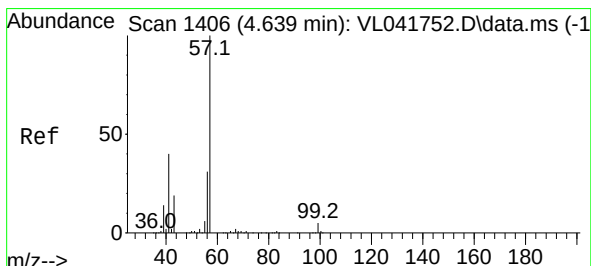
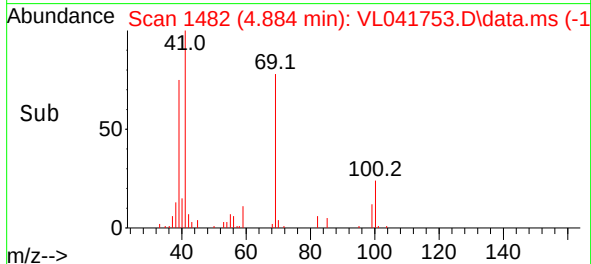
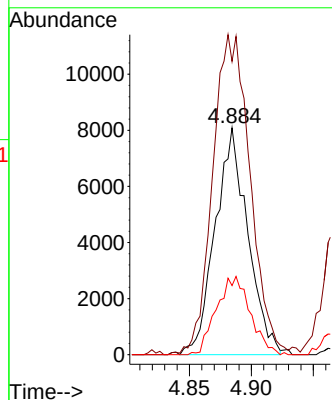
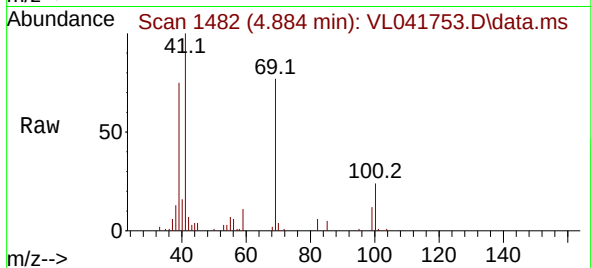
Tgt Ion: 69 Resp: 14849

Ion Ratio Lower Upper

69 100

41 162.7 130.3 195.5

100 35.7 28.3 42.5



#44

2,2,4-Trimethylpentane

Concen: 2.086 ppbv

RT: 4.642 min Scan# 1407

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

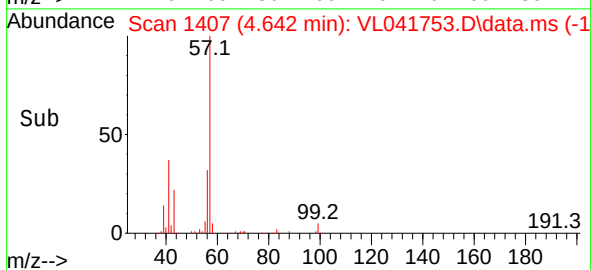
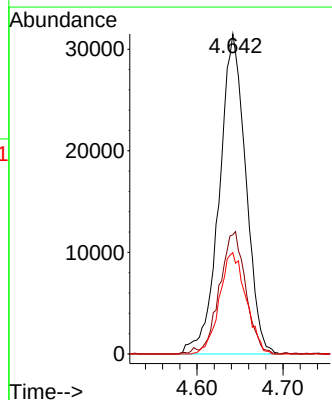
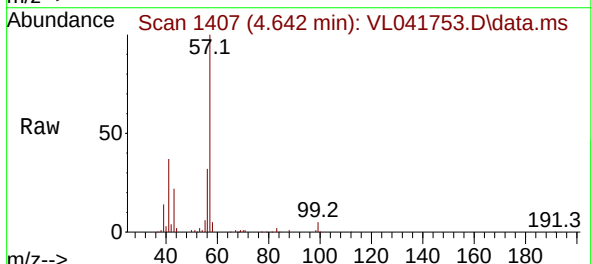
Tgt Ion: 57 Resp: 67432

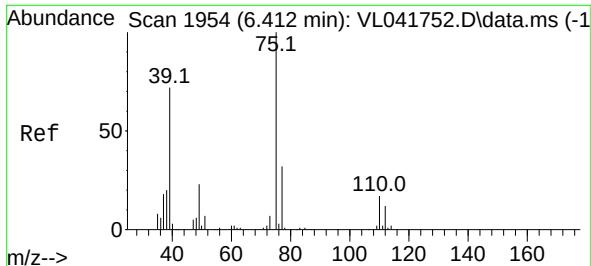
Ion Ratio Lower Upper

57 100

41 37.9 30.7 46.1

56 31.7 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 1.995 ppbv

RT: 6.415 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

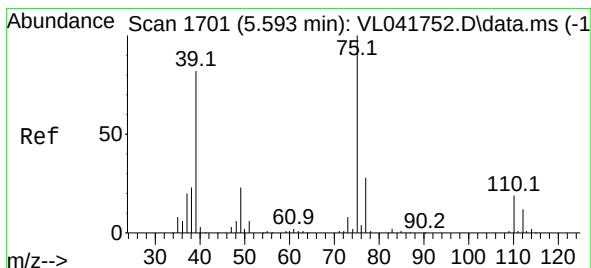
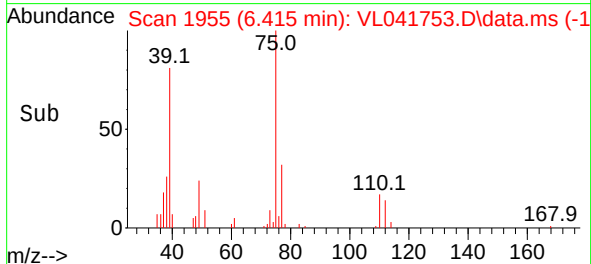
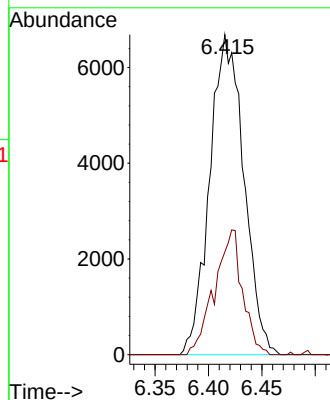
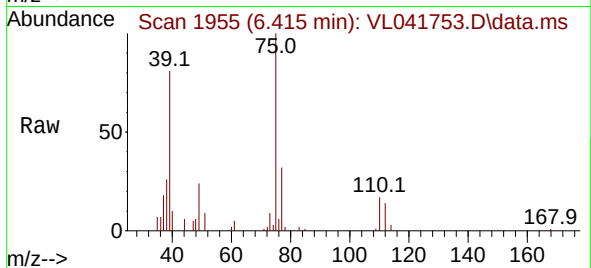
VSTDIC002

Tgt Ion: 75 Resp: 14885

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 0.763 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

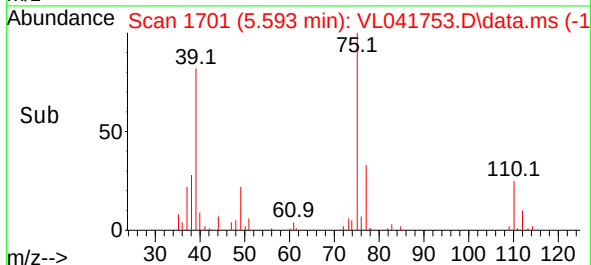
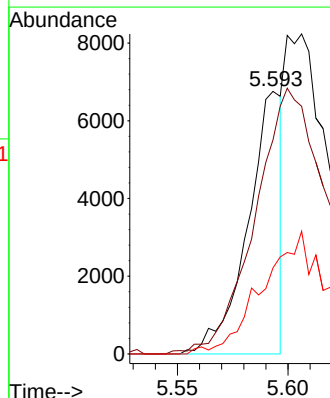
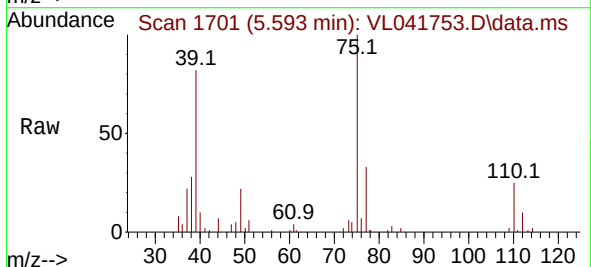
Tgt Ion: 75 Resp: 7224

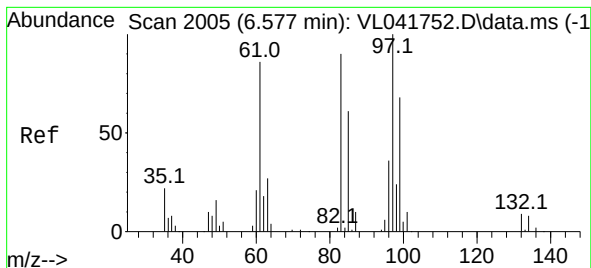
Ion Ratio Lower Upper

75 100

39 80.2 65.2 97.8

77 32.8 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 2.078 ppbv

RT: 6.584 min Scan# 2005

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 14858

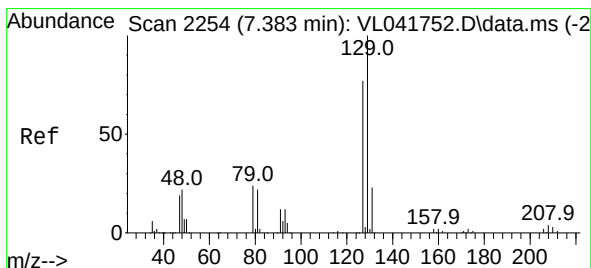
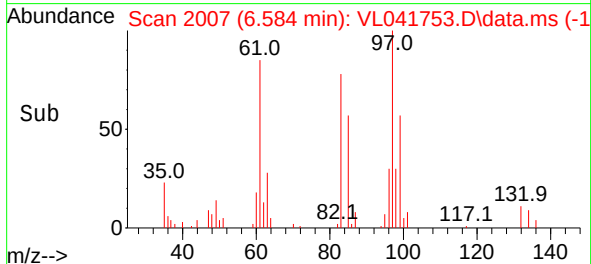
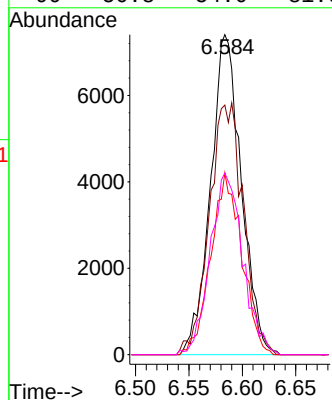
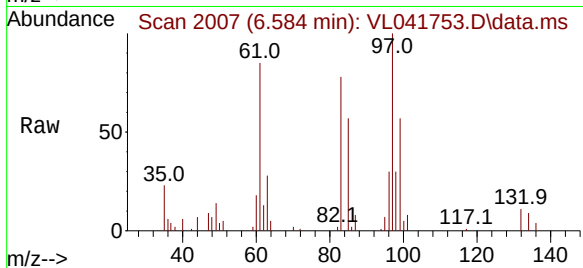
Ion Ratio Lower Upper

97 100

83 78.0 72.3 108.5

85 56.8 48.5 72.7

99 56.8 54.0 81.0



#48

Dibromochloromethane

Concen: 2.024 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.006 min

Lab File: VL041753.D

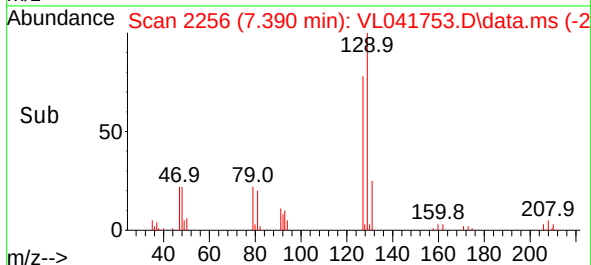
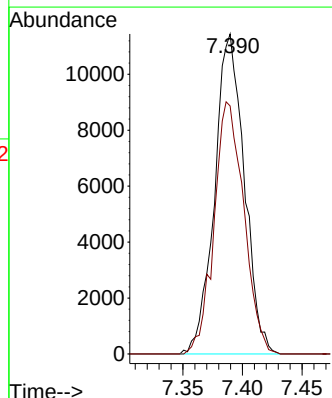
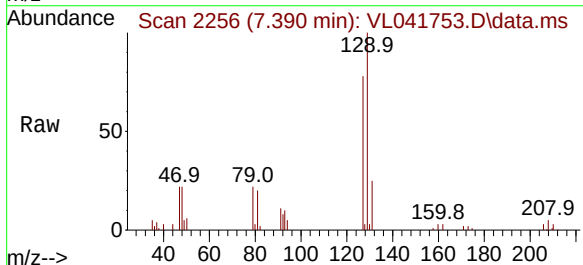
Acq: 16 Dec 2024 14:03

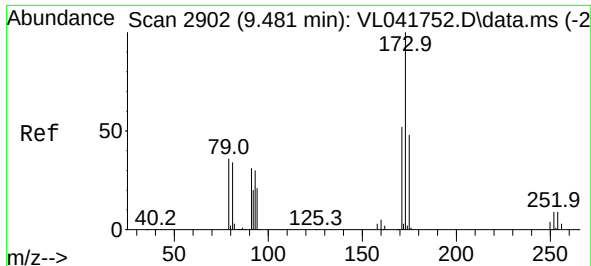
Tgt Ion: 129 Resp: 19764

Ion Ratio Lower Upper

129 100

127 79.1 38.8 116.3





#49

Bromoform

Concen: 2.027 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

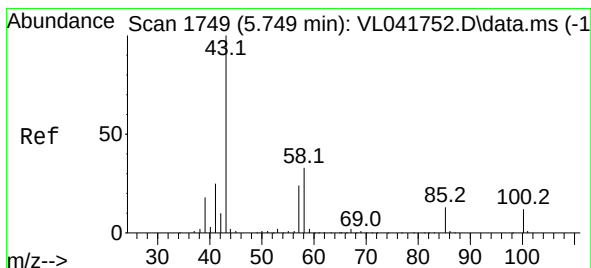
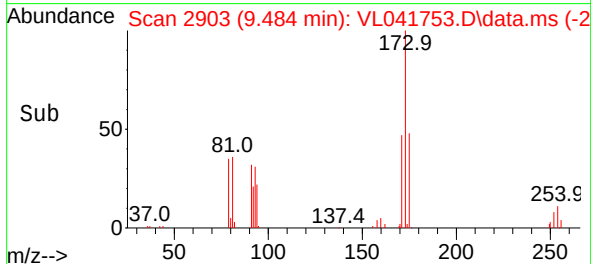
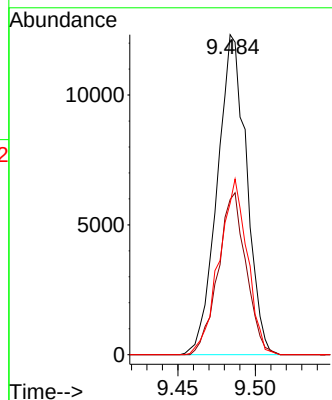
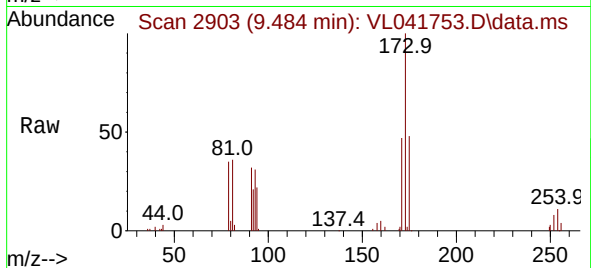
Tgt Ion:173 Resp: 16200

Ion Ratio Lower Upper

173 100

175 48.5 38.2 57.2

171 52.9 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 2.098 ppbv

RT: 5.758 min Scan# 1752

Delta R.T. 0.009 min

Lab File: VL041753.D

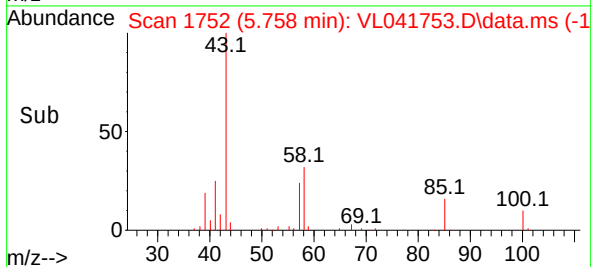
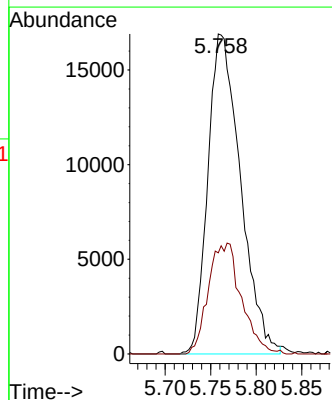
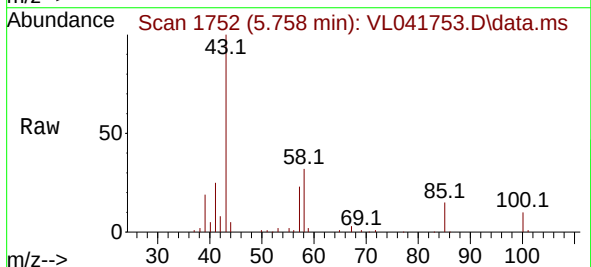
Acq: 16 Dec 2024 14:03

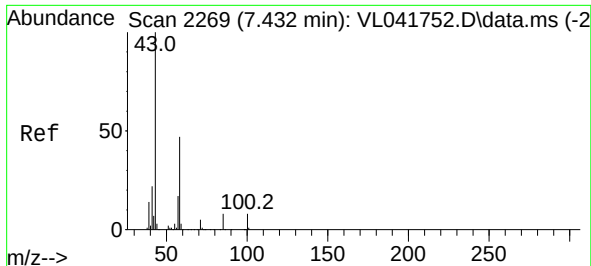
Tgt Ion: 43 Resp: 42045

Ion Ratio Lower Upper

43 100

58 35.1 26.8 40.2

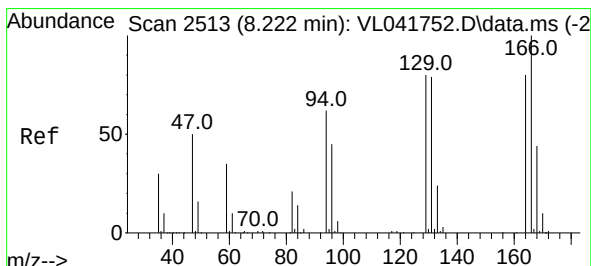
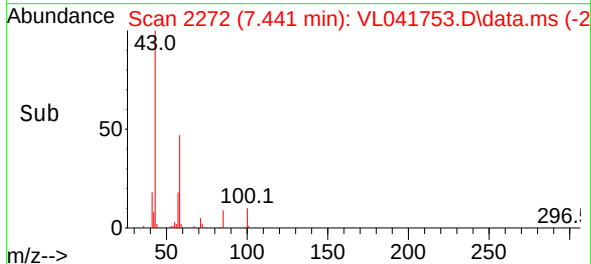
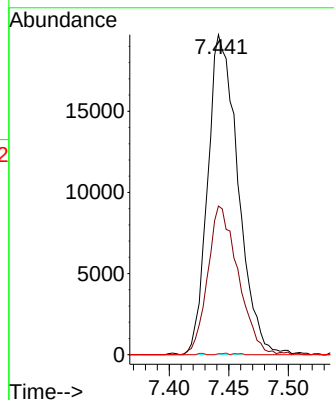
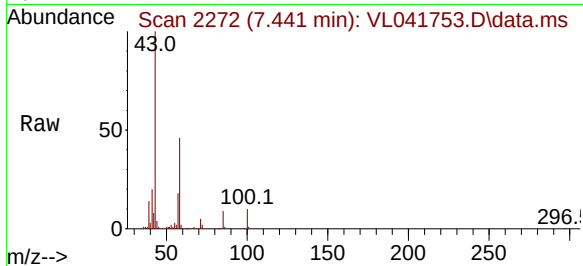




#51
2-Hexanone
Concen: 2.147 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

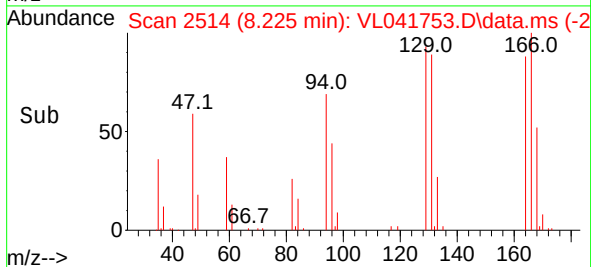
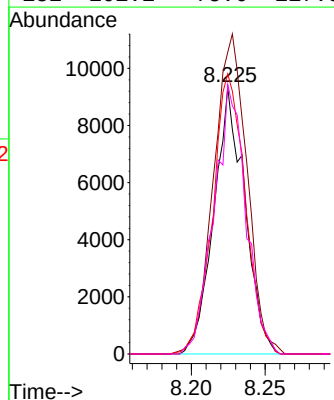
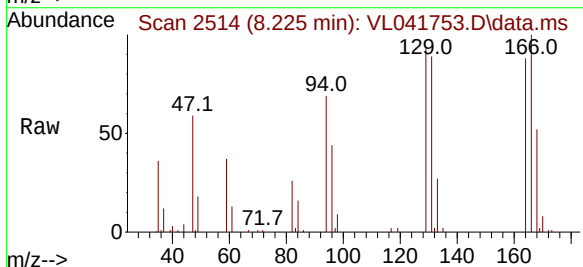
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

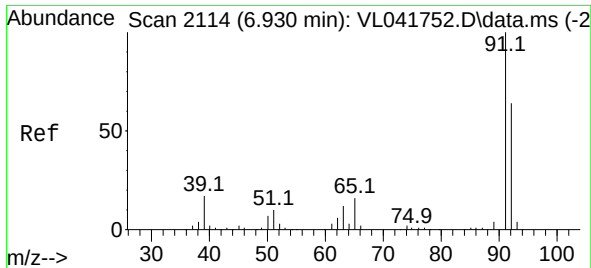
Tgt Ion: 43 Resp: 34878
Ion Ratio Lower Upper
43 100
58 46.8 36.6 55.0
98 0.3 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.932 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion: 164 Resp: 13612
Ion Ratio Lower Upper
164 100
166 111.9 99.8 149.6
129 104.9 79.6 119.4
131 101.1 78.6 117.8





#53

Toluene

Concen: 2.072 ppbv

RT: 6.933 min Scan# 2114

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

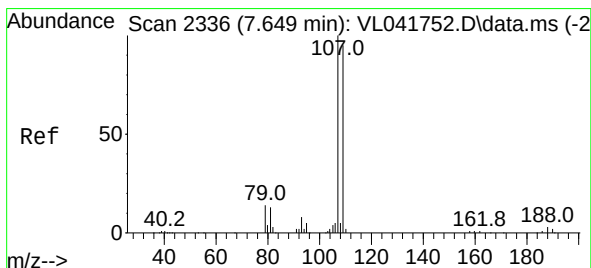
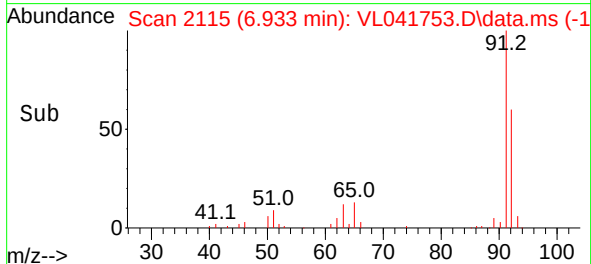
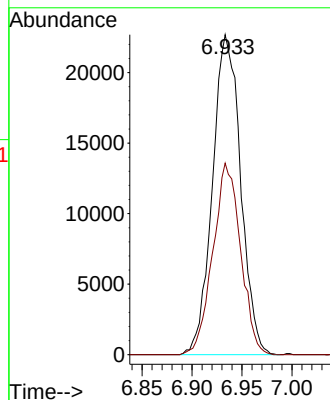
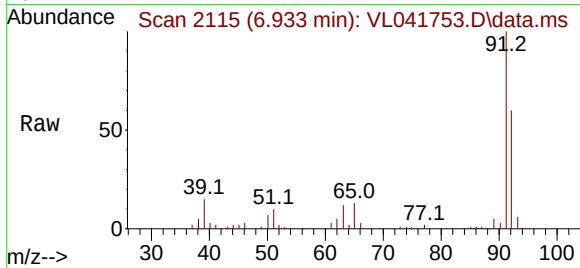
VSTDIC002

Tgt Ion: 91 Resp: 44470

Ion Ratio Lower Upper

91 100

92 58.8 47.9 71.9



#54

1,2-Dibromoethane

Concen: 2.012 ppbv

RT: 7.655 min Scan# 2338

Delta R.T. 0.006 min

Lab File: VL041753.D

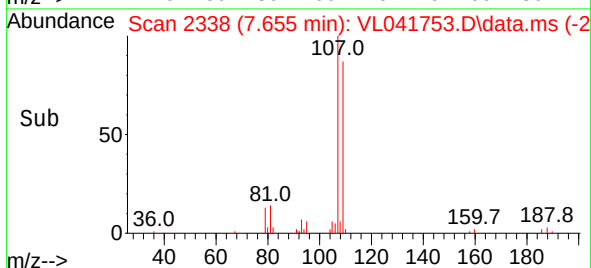
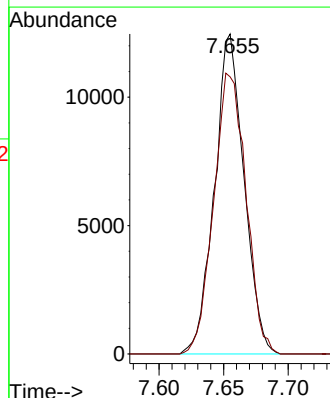
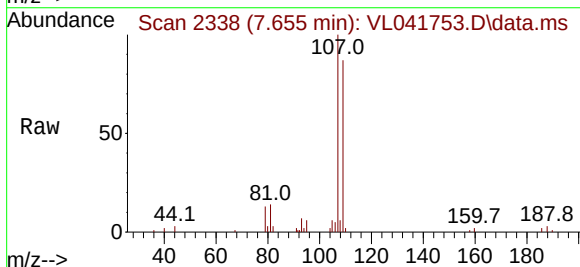
Acq: 16 Dec 2024 14:03

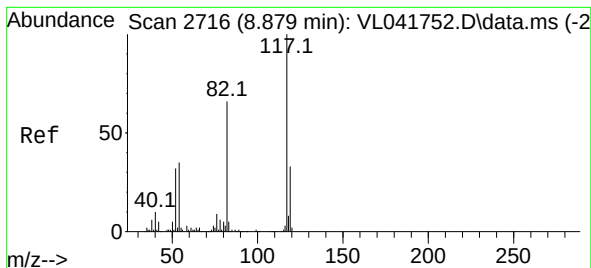
Tgt Ion:107 Resp: 19820

Ion Ratio Lower Upper

107 100

109 86.6 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

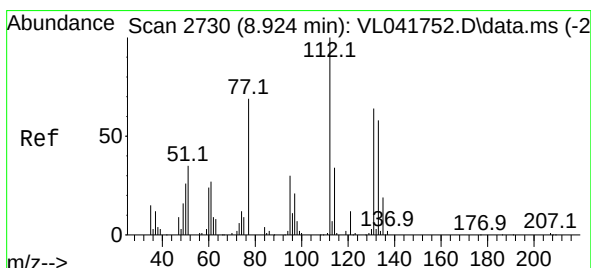
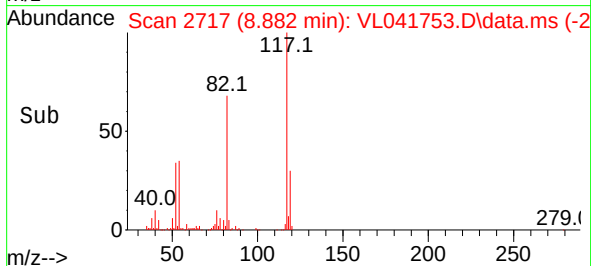
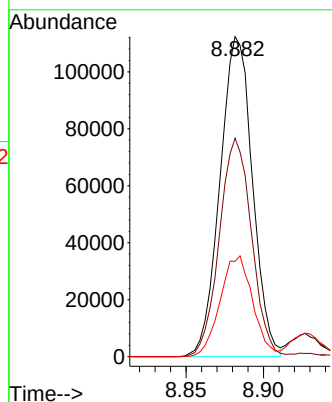
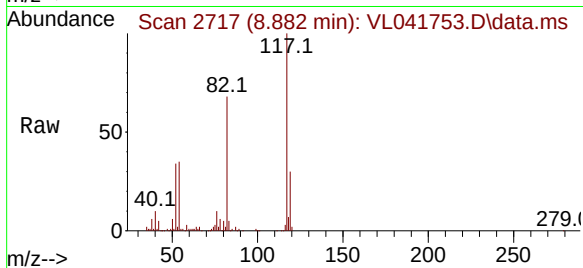
Tgt Ion:117 Resp: 163971

Ion Ratio Lower Upper

117 100

82 68.5 53.8 80.8

119 31.5 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 2.141 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

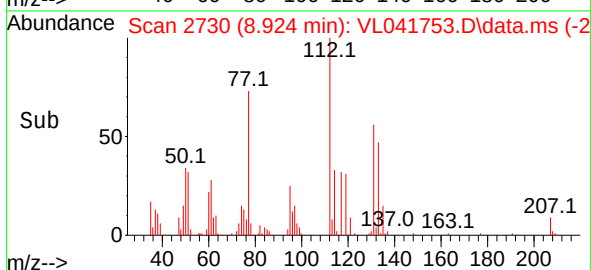
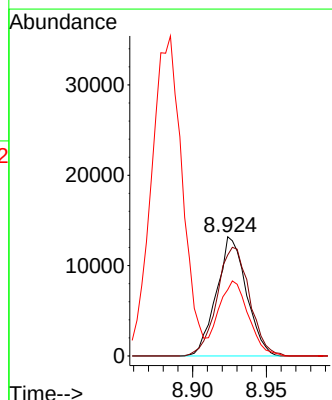
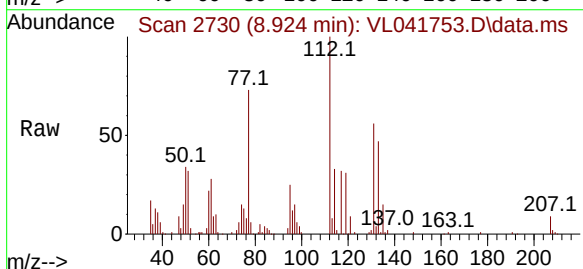
Tgt Ion:131 Resp: 18613

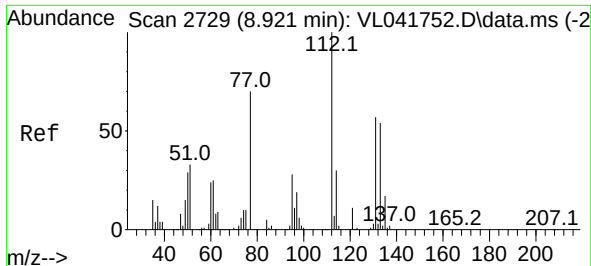
Ion Ratio Lower Upper

131 100

133 99.0 76.8 115.2

119 61.3 49.0 73.6





#57

Chlorobenzene

Concen: 2.127 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

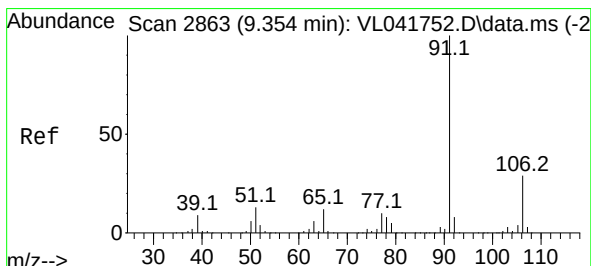
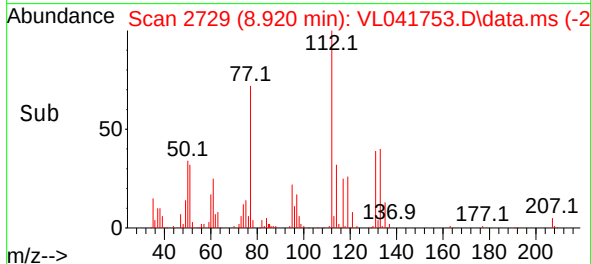
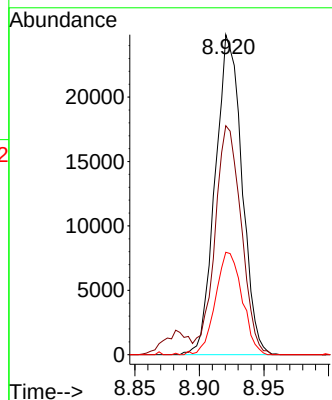
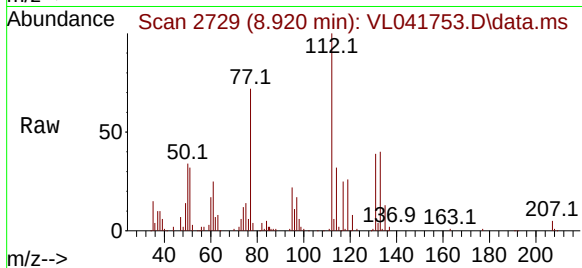
Tgt Ion:112 Resp: 35685

Ion Ratio Lower Upper

112 100

77 71.6 57.4 86.0

114 32.0 27.4 33.4



#58

Ethyl Benzene

Concen: 2.145 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.000 min

Lab File: VL041753.D

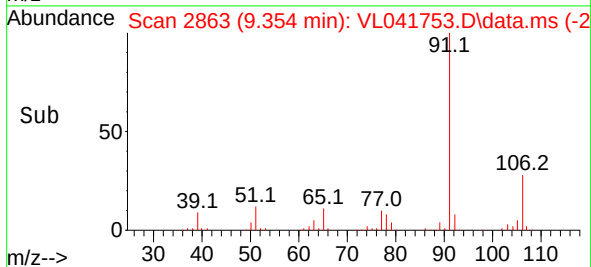
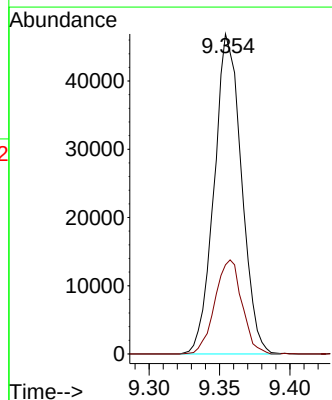
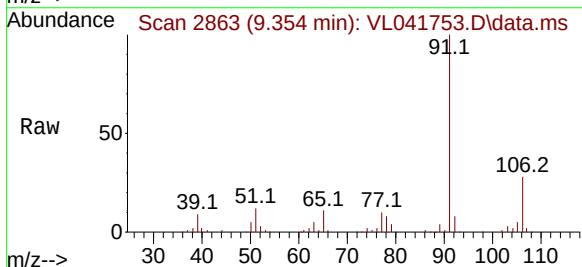
Acq: 16 Dec 2024 14:03

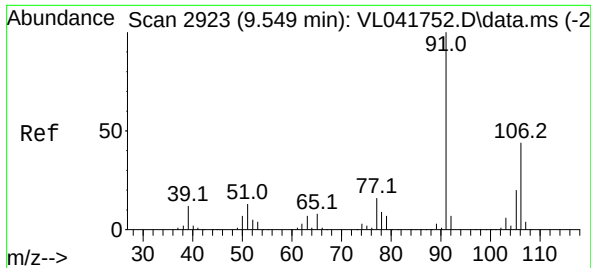
Tgt Ion: 91 Resp: 63316

Ion Ratio Lower Upper

91 100

106 27.8 23.5 35.3





#59

m/p-Xylene

Concen: 2.060 ppbv

RT: 9.555 min Scan# 2923

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

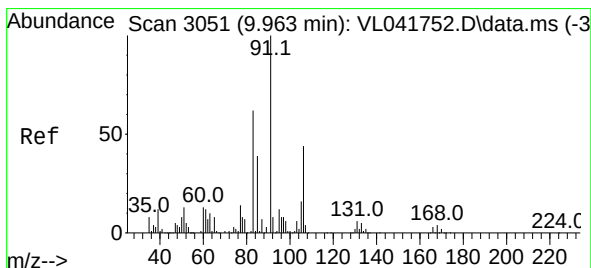
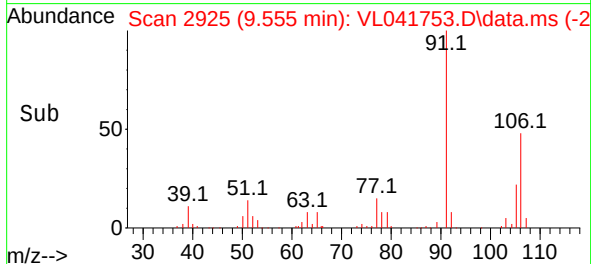
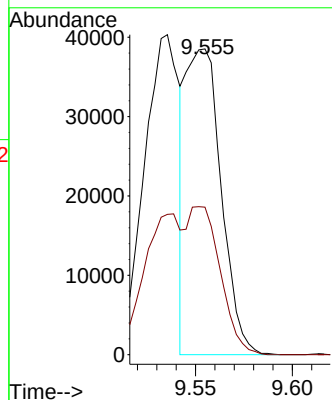
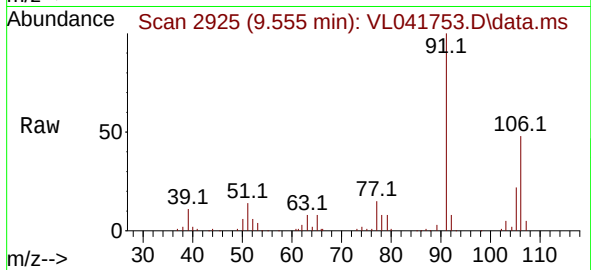
VSTDIC002

Tgt Ion: 91 Resp: 48921

Ion Ratio Lower Upper

91 100

106 94.6 0.0 0.0#



#60

o-Xylene

Concen: 2.149 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL041753.D

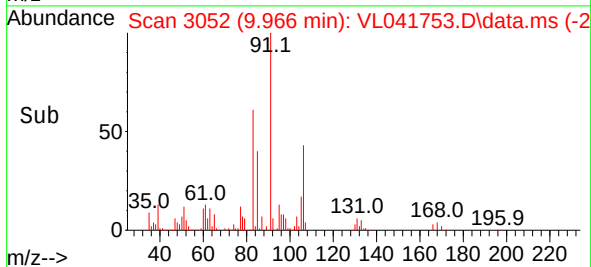
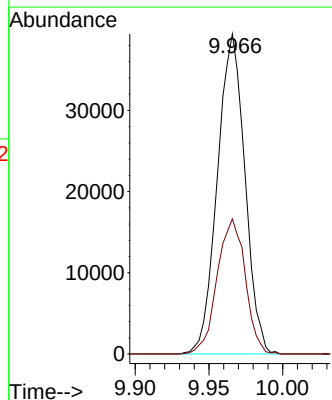
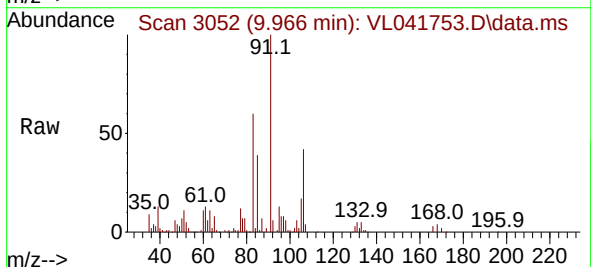
Acq: 16 Dec 2024 14:03

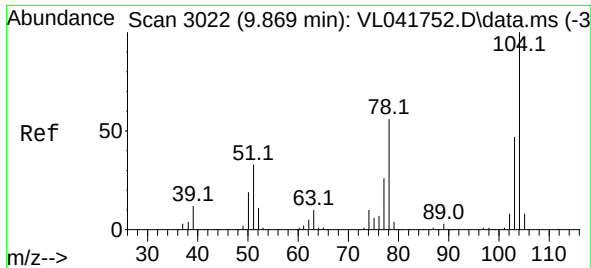
Tgt Ion: 91 Resp: 51152

Ion Ratio Lower Upper

91 100

106 43.1 21.1 63.4

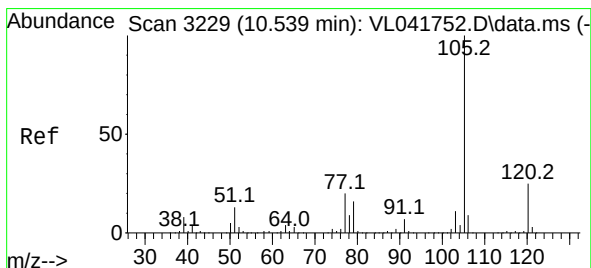
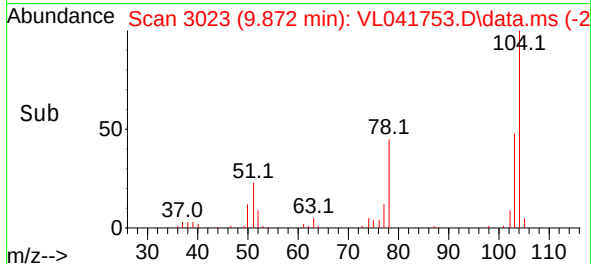
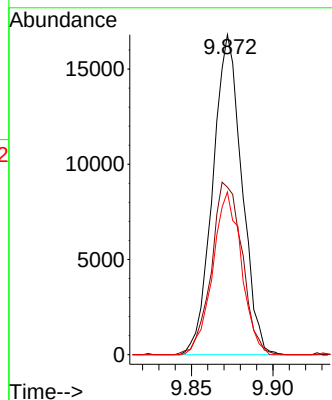
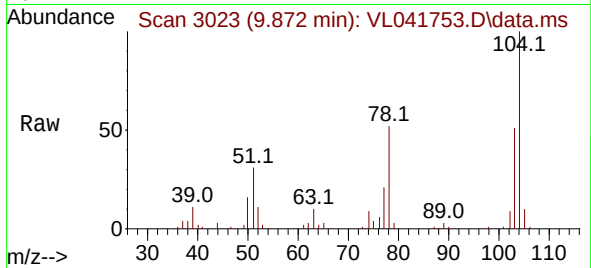




#61
Styrene
Concen: 2.025 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

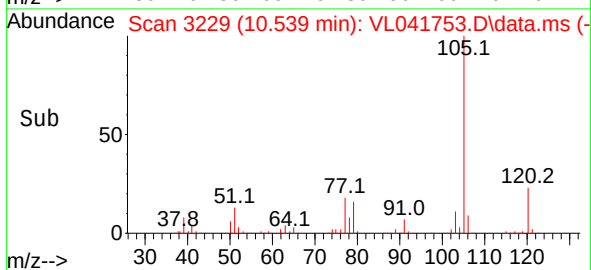
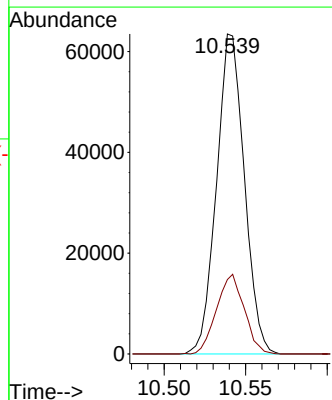
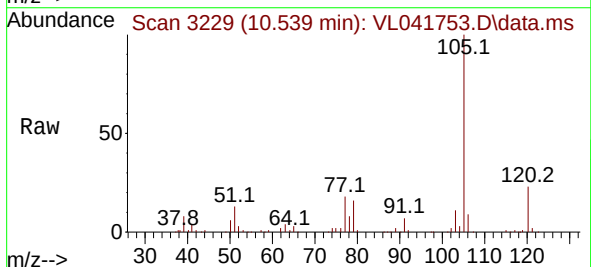
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

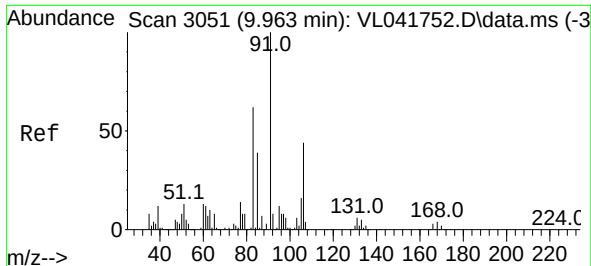
Tgt Ion:104 Resp: 20842
Ion Ratio Lower Upper
104 100
78 56.9 43.8 65.6
103 50.2 37.8 56.6



#62
Isopropylbenzene
Concen: 2.103 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 75206
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8

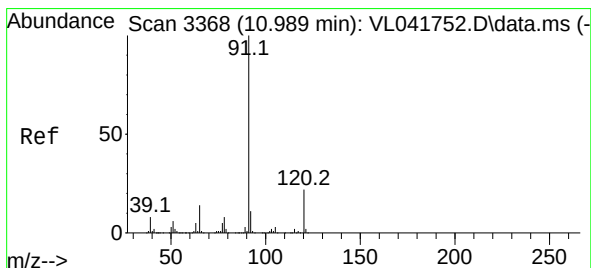
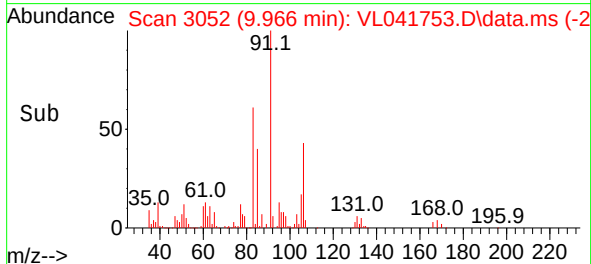
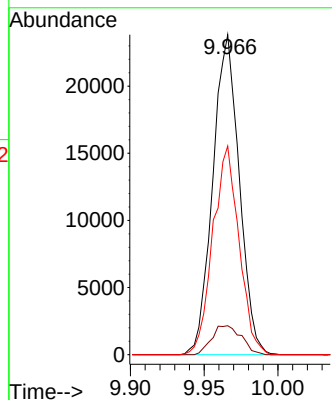
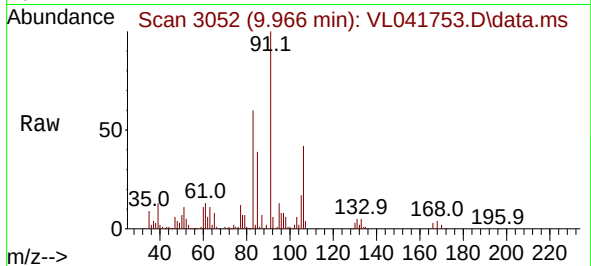




#63
1,1,2,2-Tetrachloroethane
Concen: 1.997 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

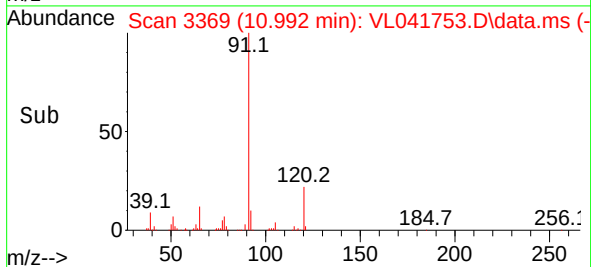
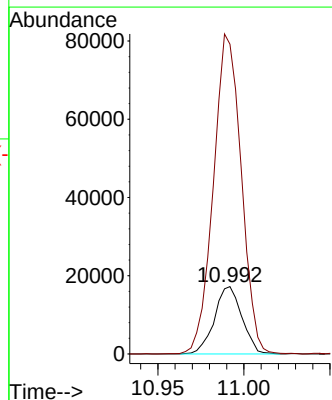
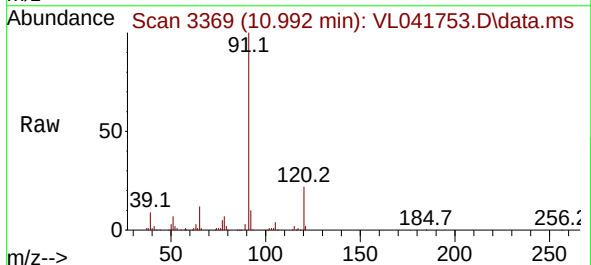
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

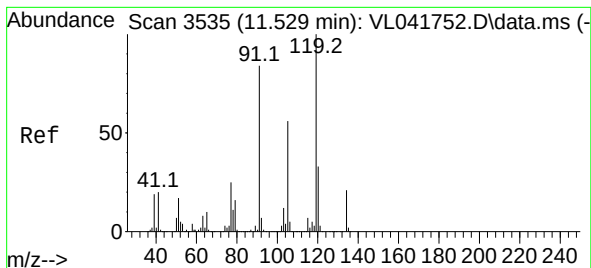
Tgt Ion: 83 Resp: 29751
Ion Ratio Lower Upper
83 100
131 10.2 4.9 14.7
85 64.4 32.0 96.2



#64
n-propylbenzene
Concen: 2.117 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:120 Resp: 19146
Ion Ratio Lower Upper
120 100
91 482.0 387.3 580.9





#65

tert-Butylbenzene

Concen: 2.135 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

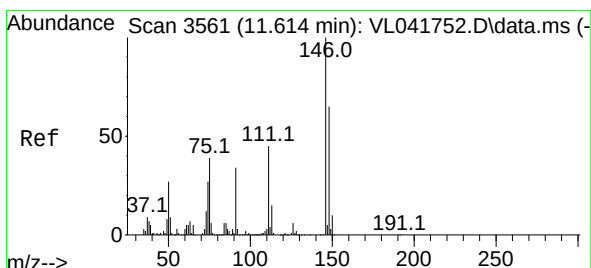
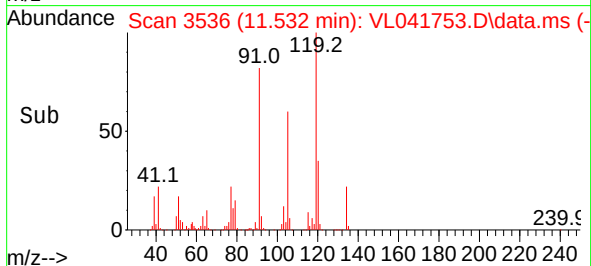
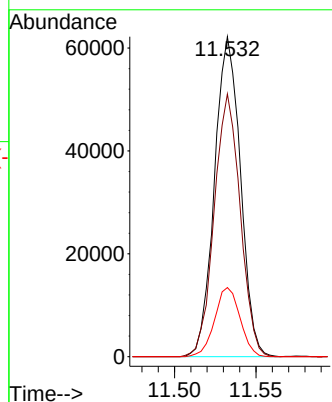
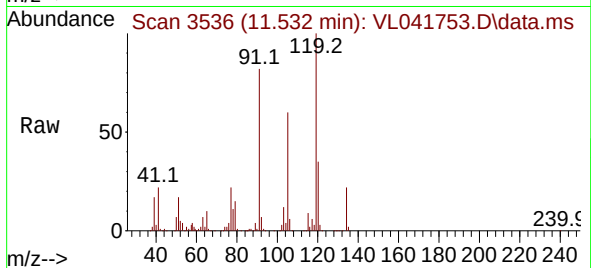
Tgt Ion:119 Resp: 68879

Ion Ratio Lower Upper

119 100

91 82.1 67.0 100.4

134 21.1 16.5 24.7



#66

Benzyl Chloride

Concen: 1.898 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

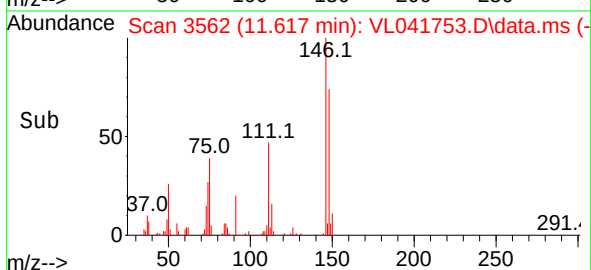
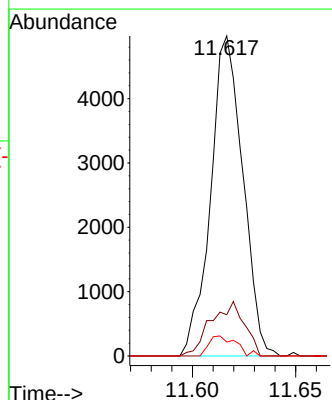
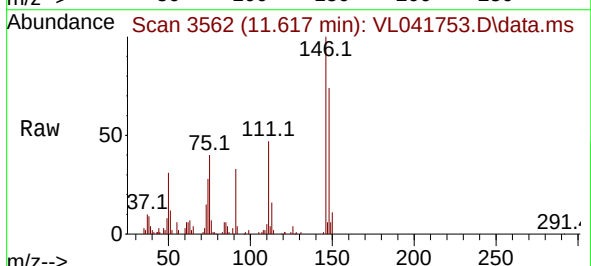
Tgt Ion: 91 Resp: 5400

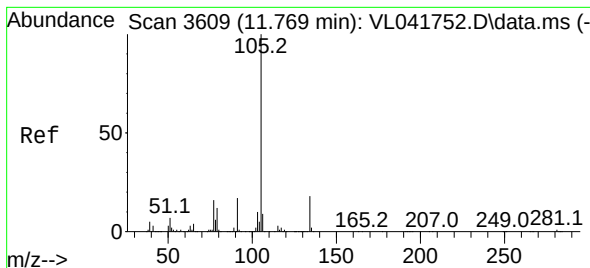
Ion Ratio Lower Upper

91 100

126 17.7 13.9 20.9

128 5.3 4.4 6.6





#67

sec-Butylbenzene

Concen: 2.149 ppbv

RT: 11.769 min Scan# 3179

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_1

ClientSampleId :

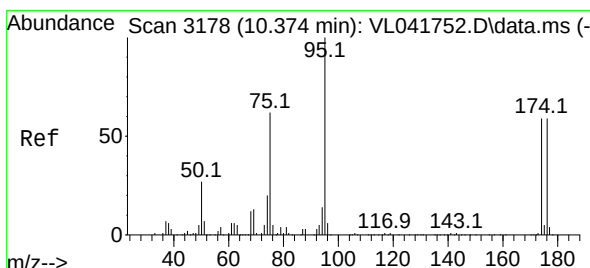
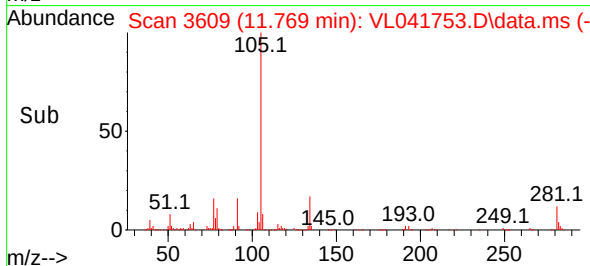
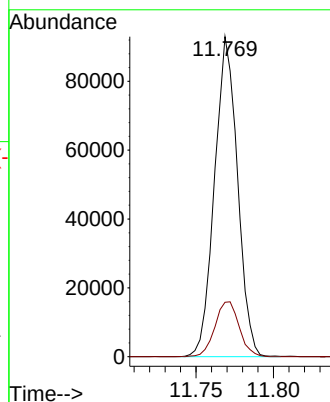
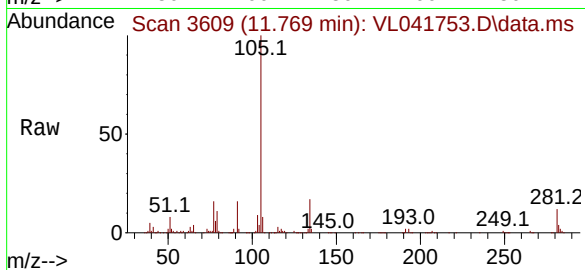
VSTDIC002

Tgt Ion:105 Resp: 95968

Ion Ratio Lower Upper

105 100

134 18.1 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.122 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

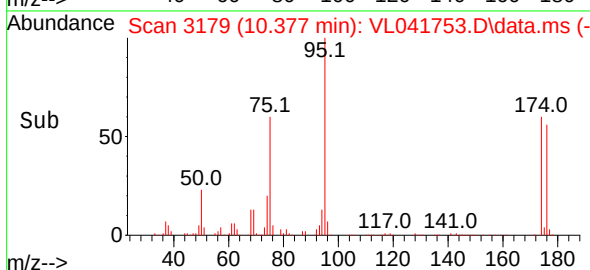
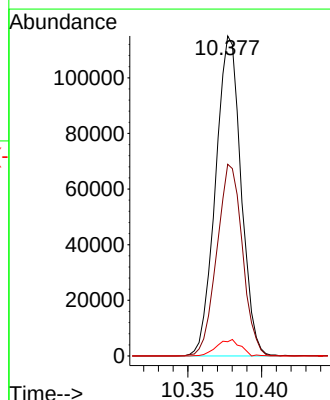
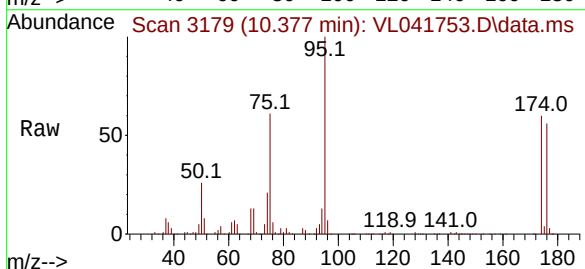
Tgt Ion: 95 Resp: 138312

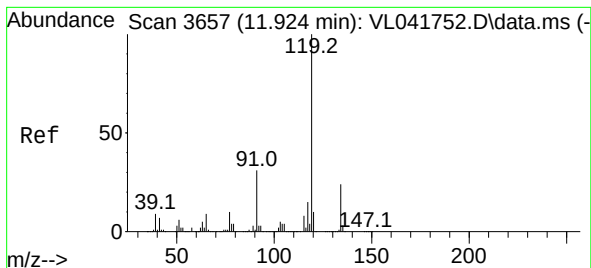
Ion Ratio Lower Upper

95 100

174 60.2 47.6 71.4

175 4.9 3.7 5.5





#69

p-Isopropyltoluene

Concen: 2.153 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

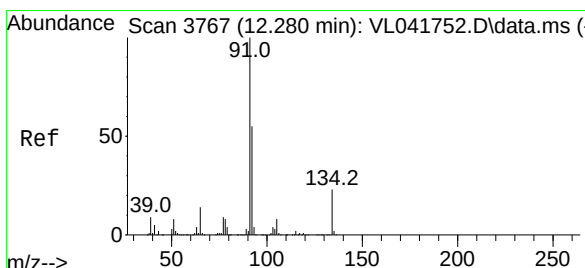
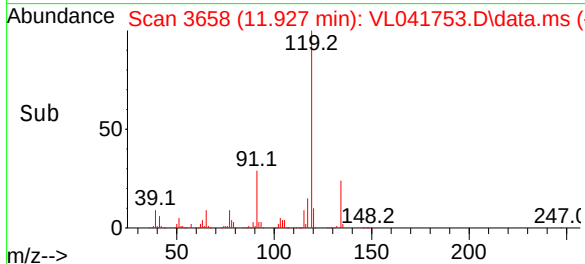
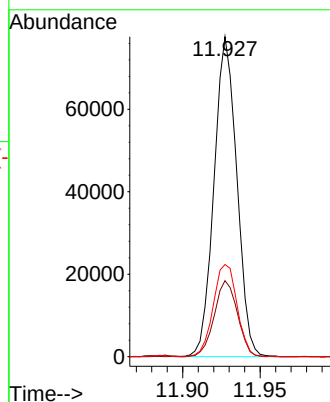
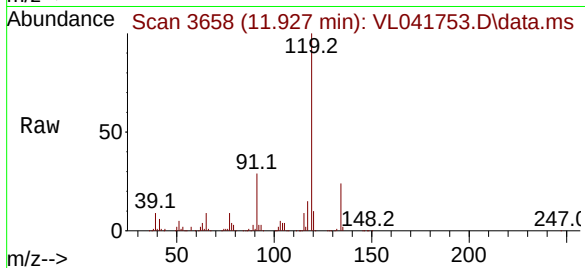
Tgt Ion:119 Resp: 79236

Ion Ratio Lower Upper

119 100

134 24.3 19.6 29.4

91 30.5 24.4 36.6



#70

n-Butylbenzene

Concen: 2.122 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

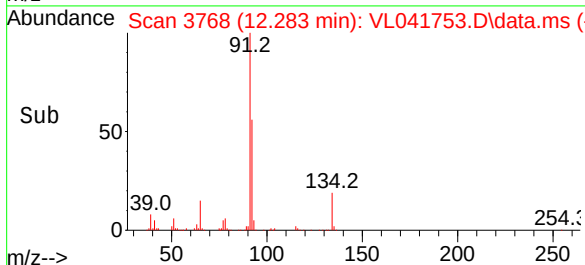
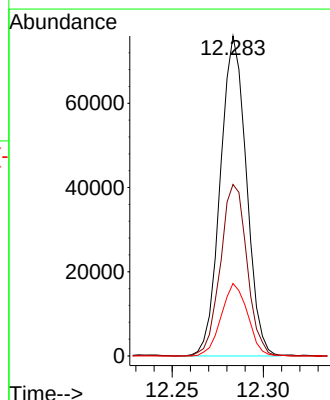
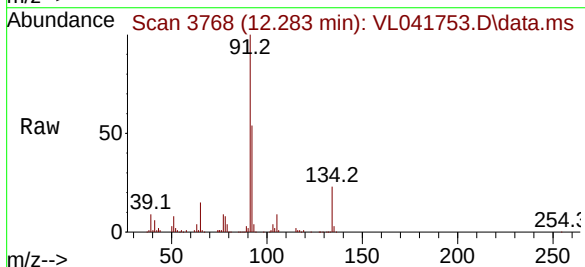
Tgt Ion: 91 Resp: 75430

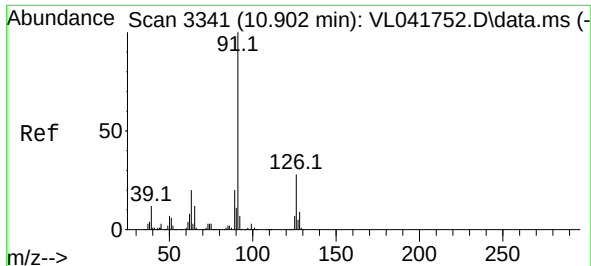
Ion Ratio Lower Upper

91 100

92 54.7 43.2 64.8

134 23.0 18.2 27.4

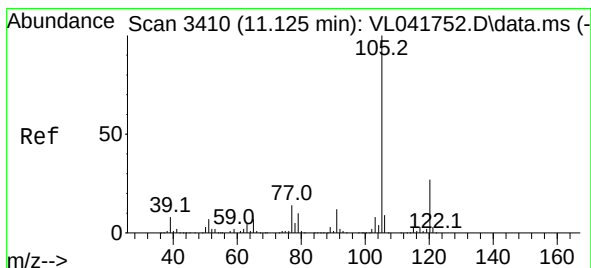
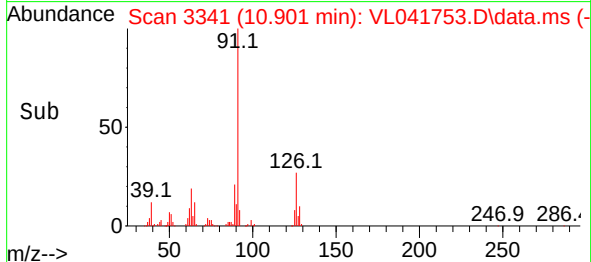
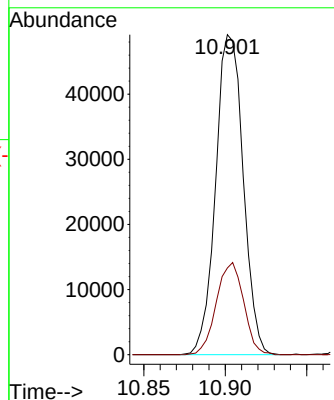
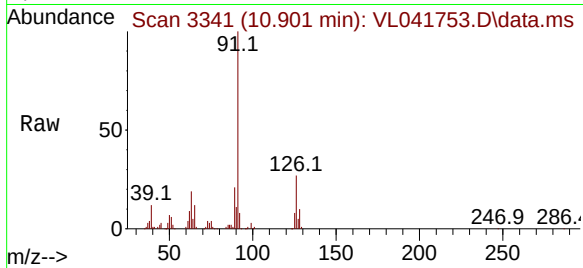




#71
2-Chlorotoluene
Concen: 2.114 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

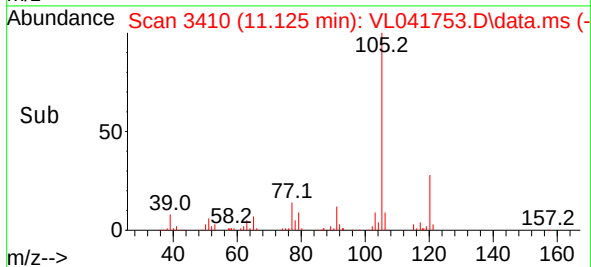
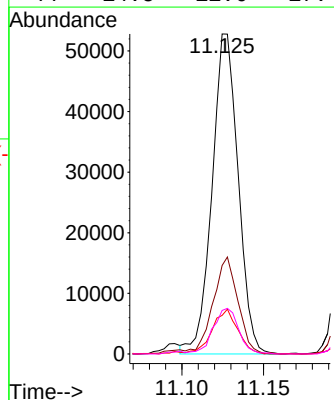
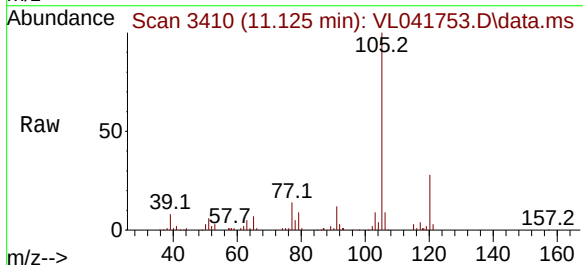
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

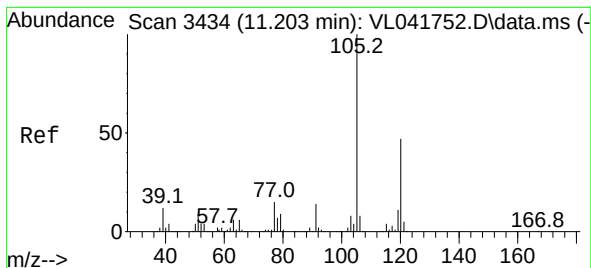
Tgt Ion: 91 Resp: 57724
Ion Ratio Lower Upper
91 100
126 28.5 11.6 46.4



#72
4-Ethyltoluene
Concen: 2.098 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 58841
Ion Ratio Lower Upper
105 100
120 29.7 23.3 34.9
91 14.3 10.9 16.3
77 14.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 2.087 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

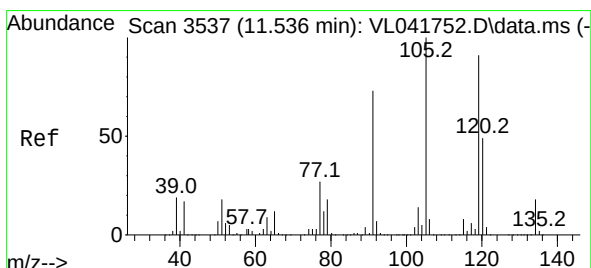
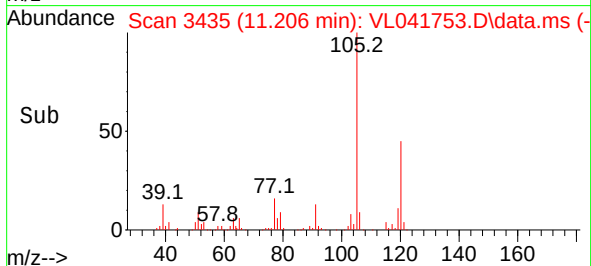
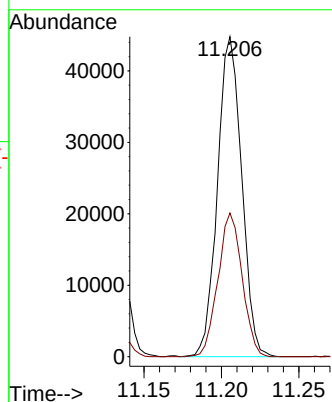
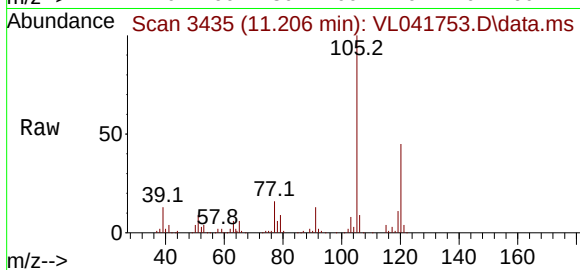
VSTDIC002

Tgt Ion:105 Resp: 48645

Ion Ratio Lower Upper

105 100

120 44.9 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 2.118 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Tgt Ion:105 Resp: 53084

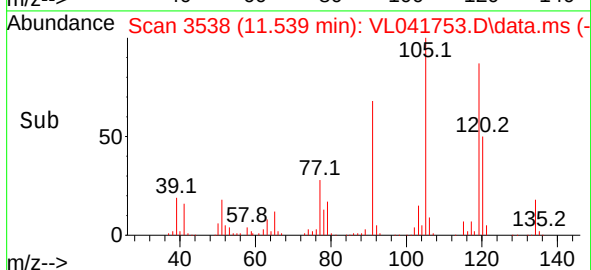
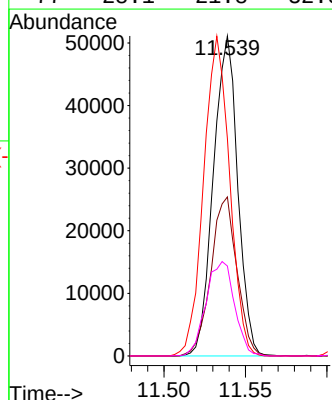
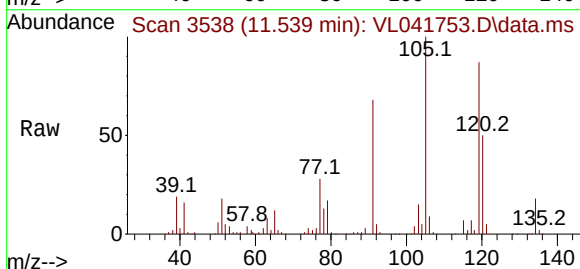
Ion Ratio Lower Upper

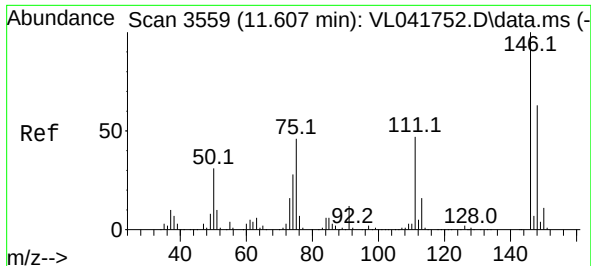
105 100

120 49.7 39.0 58.4

91 67.9 58.1 87.1

77 28.1 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 2.040 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

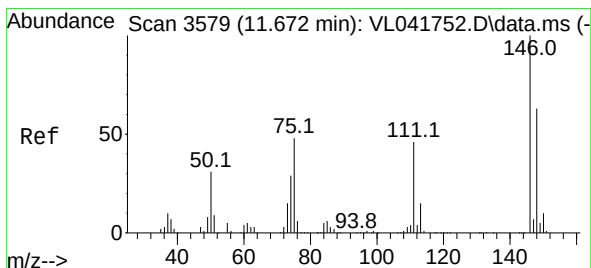
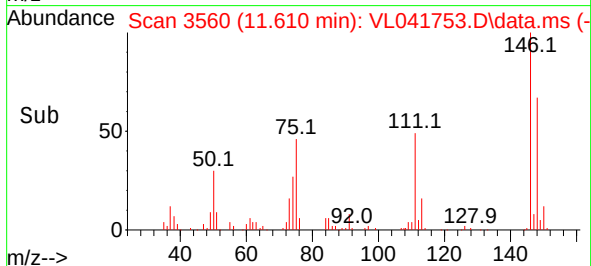
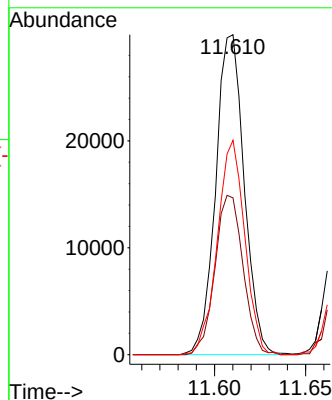
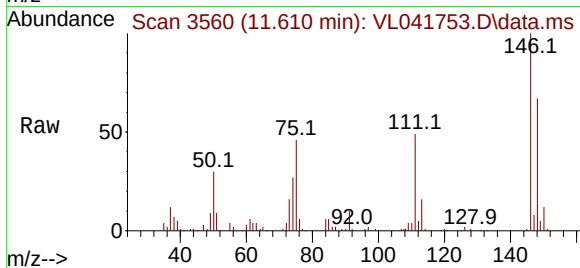
Tgt Ion:146 Resp: 32609

Ion Ratio Lower Upper

146 100

111 49.1 23.4 70.3

148 64.3 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 2.060 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

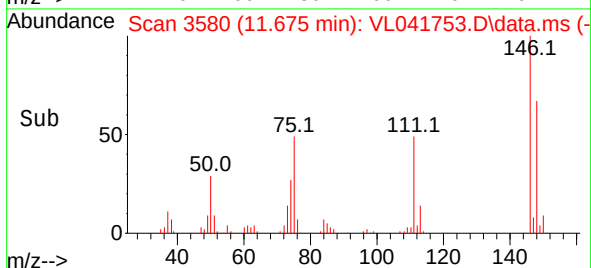
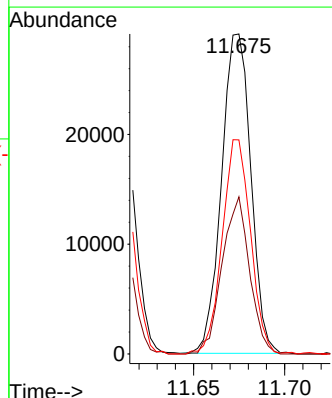
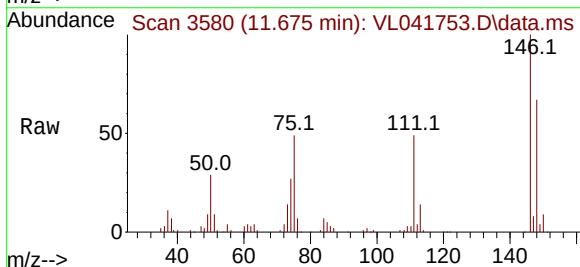
Tgt Ion:146 Resp: 32527

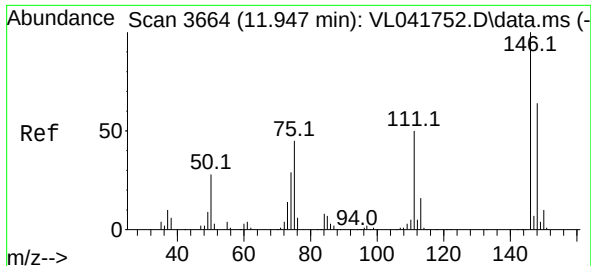
Ion Ratio Lower Upper

146 100

111 46.1 22.7 68.1

148 65.1 31.4 94.0

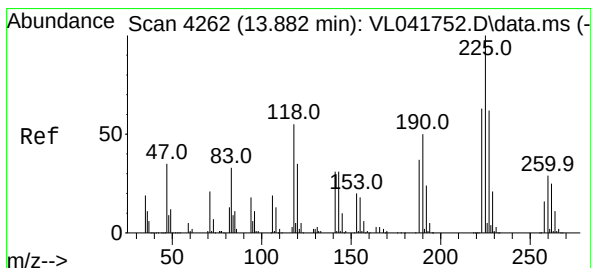
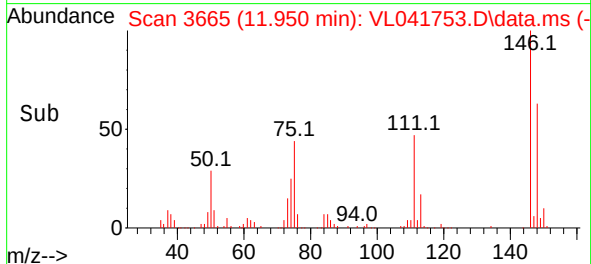
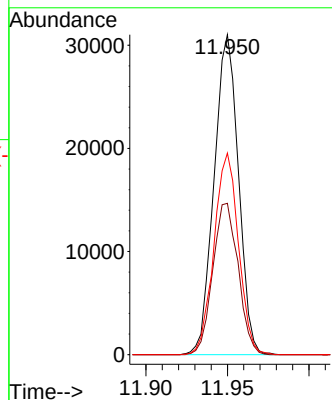
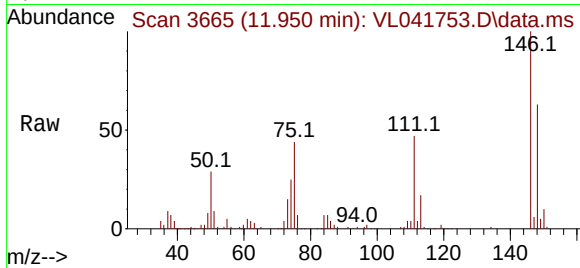




#77
1,2-Dichlorobenzene
Concen: 2.095 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

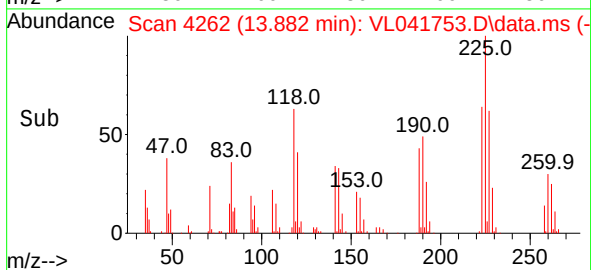
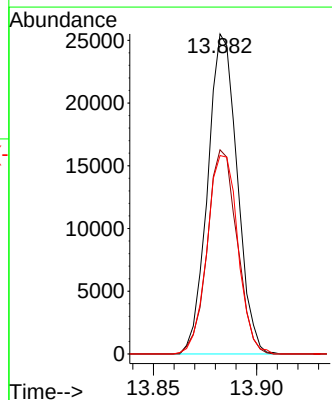
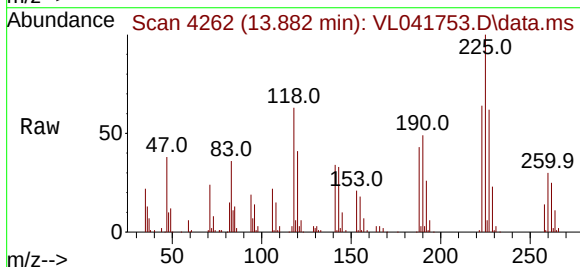
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

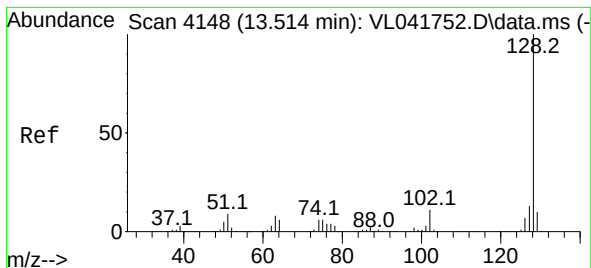
Tgt Ion:146 Resp: 32223
Ion Ratio Lower Upper
146 100
111 49.2 24.8 74.3
148 63.3 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 2.224 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Tgt Ion:225 Resp: 25358
Ion Ratio Lower Upper
225 100
223 64.2 50.5 75.7
227 64.8 50.3 75.5





#79

Naphthalene

Concen: 2.167 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

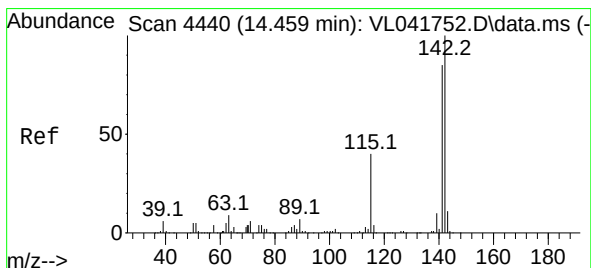
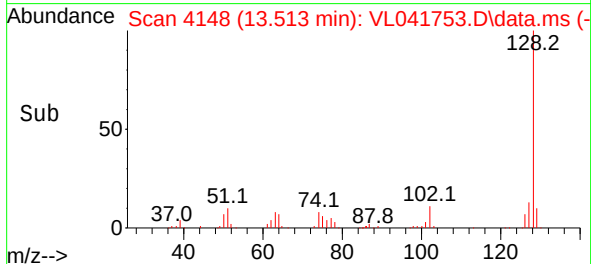
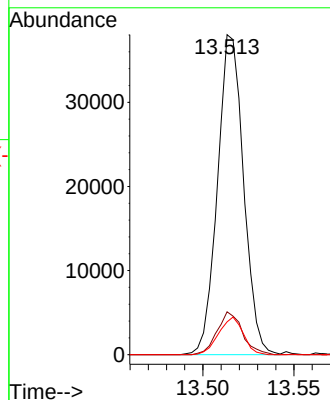
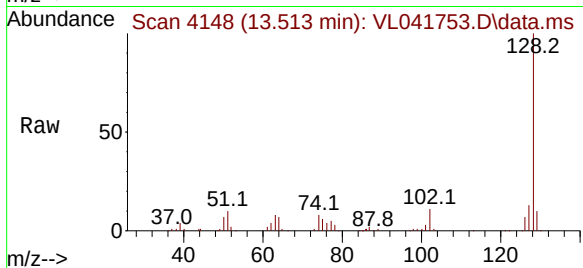
Tgt Ion:128 Resp: 37855

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

129 10.3 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 0.830 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

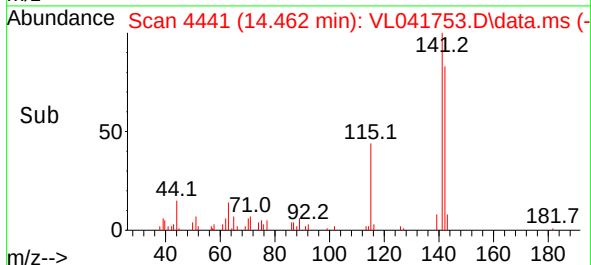
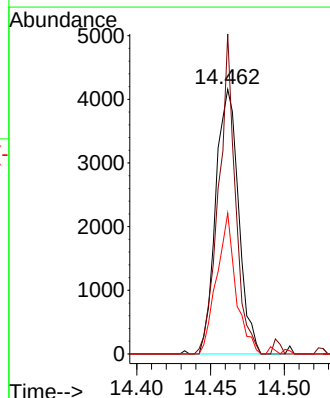
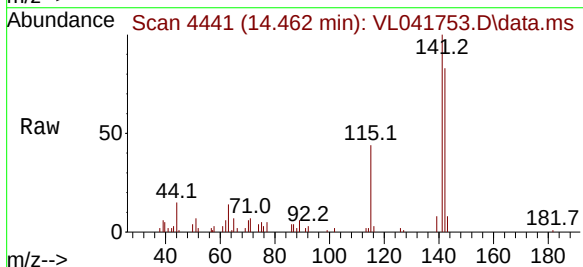
Tgt Ion:142 Resp: 4482

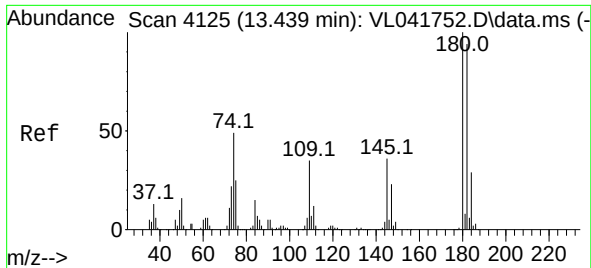
Ion Ratio Lower Upper

142 100

141 90.1 68.4 102.6

115 45.4 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 2.035 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041753.D

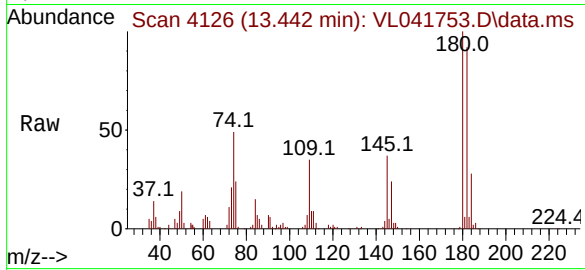
Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002



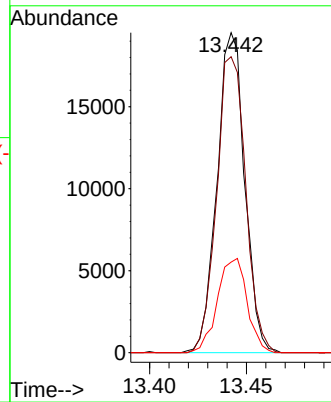
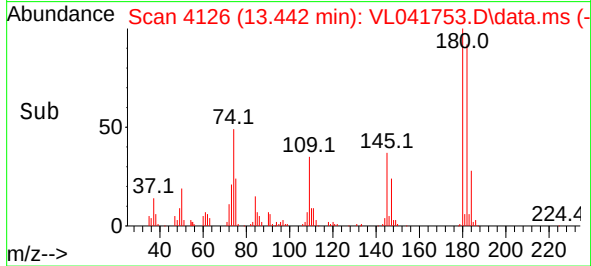
Tgt Ion:180 Resp: 19425

Ion Ratio Lower Upper

180 100

182 96.8 77.0 115.6

184 31.5 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 19 06:13:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	65928	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	178926	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	162267	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	132857	9.825	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	12706	1.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	11187	1.041	ppbv	98
4) Chloromethane	1.531	50	4805	1.047	ppbv	99
5) Vinyl Chloride	1.580	62	4580	0.990	ppbv	98
6) Bromomethane	1.667	94	2394	1.097	ppbv	99
7) Chloroethane	1.703	64	1763	0.981	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	10938	1.042	ppbv	99
9) Propene	1.483	41	4840	1.039	ppbv	94
10) Heptane	4.972	43	12004	1.003	ppbv	93
11) Trichlorofluoromethane	1.874	101	12625	1.013	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	9915	1.046	ppbv	98
13) Ethanol	1.719	45	615	1.587	ppbv	74
14) Bromoethene	1.780	108	3148	0.984	ppbv #	86
15) Acetone	1.832	43	15060	1.174	ppbv	99
16) 1,3-Butadiene	1.609	39	5137	1.017	ppbv	95
17) tert-Butyl alcohol	2.039	59	13341	1.048	ppbv	96
18) 1,1-Dichloroethene	2.033	96	4139	1.042	ppbv	96
19) Isopropyl Alcohol	1.884	45	8703	1.131	ppbv	100
20) Methylene Chloride	2.059	84	3868	1.057	ppbv	92
21) Allyl Chloride	2.094	41	7425	1.067	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	4599	1.011	ppbv	96
23) Vinyl Acetate	2.460	43	5345	0.959	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9621	1.045	ppbv	98
25) Ethyl Acetate	2.836	43	25141	1.049	ppbv	99
26) Hexane	2.826	57	9250	1.021	ppbv	93
27) Carbon Disulfide	2.149	76	8152	0.999	ppbv #	19
28) Methyl tert-Butyl Ether	2.441	73	8539	1.162	ppbv	94
29) Chloroform	2.845	83	14384	1.042	ppbv	96
30) Cyclohexane	3.852	84	7824	1.015	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	10013	1.070	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	14415	1.049	ppbv	98
34) 2-Butanone	2.557	43	14673	1.019	ppbv	99
35) Carbon Tetrachloride	3.761	117	6520	0.513	ppbv	98
36) Benzene	3.651	78	19331	1.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	11490	0.998	ppbv #	94
38) Trichloroethene	4.541	130	4300	0.552	ppbv	94
39) 1,2-Dichloropropane	4.311	63	7068	1.056	ppbv	86
40) 1,4-Dioxane	4.596	88	3241	0.991	ppbv #	40
41) Tetrahydrofuran	3.062	42	8727	1.082	ppbv	97
42) Bromodichloromethane	4.489	83	13154	0.993	ppbv	100
43) Methyl Methacrylate	4.875	69	4727	0.670	ppbv #	34
44) 2,2,4-Trimethylpentane	4.638	57	32361	1.024	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	7027	0.963	ppbv	98

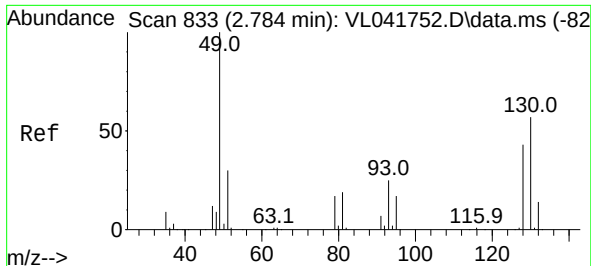
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 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 19 06:13:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	5402	0.583	ppbv	86
47) 1,1,2-Trichloroethane	6.571	97	2694	0.385	ppbv	93
48) Dibromochloromethane	7.383	129	8817	0.924	ppbv	97
49) Bromoform	9.480	173	7073	0.905	ppbv	96
50) 4-Methyl-2-Pentanone	5.761	43	20212	1.031	ppbv	100
51) 2-Hexanone	7.441	43	16514	1.040	ppbv #	99
52) Tetrachloroethene	8.218	164	3765	0.547	ppbv	92
53) Toluene	6.930	91	21594	1.029	ppbv	100
54) 1,2-Dibromoethane	7.648	107	9758	1.013	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	8643	1.005	ppbv	93
57) Chlorobenzene	8.920	112	17500	1.054	ppbv	97
58) Ethyl Benzene	9.351	91	29762	1.019	ppbv	98
59) m/p-Xylene	9.548	91	16252	0.692	ppbv #	100
60) o-Xylene	9.963	91	24210	1.028	ppbv	98
61) Styrene	9.869	104	9707	0.953	ppbv	100
62) Isopropylbenzene	10.539	105	36251	1.024	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	14752	1.001	ppbv	98
64) n-propylbenzene	10.985	120	9432	1.054	ppbv	91
65) tert-Butylbenzene	11.529	119	32887	1.030	ppbv	100
66) Benzyl Chloride	11.610	91	2518	0.894	ppbv	97
67) sec-Butylbenzene	11.765	105	45015	1.019	ppbv	98
69) p-Isopropyltoluene	11.924	119	36298	0.997	ppbv	98
70) n-Butylbenzene	12.280	91	35432	1.007	ppbv	98
71) 2-Chlorotoluene	10.901	91	27561	1.020	ppbv	97
72) 4-Ethyltoluene	11.125	105	26921	0.970	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	22360	0.969	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	24654	0.994	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	16476	1.042	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	15774	1.010	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	15866	1.043	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	12266	1.087	ppbv	97
79) Naphthalene	13.513	128	16971	0.982	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	1504	0.281	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.439	180	8973	0.950	ppbv	96

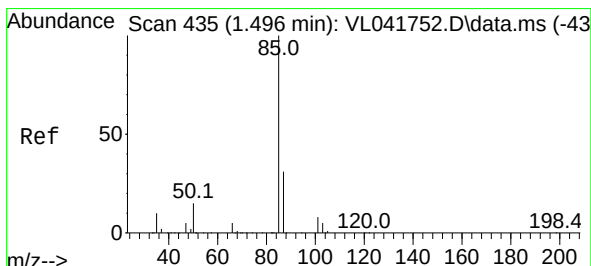
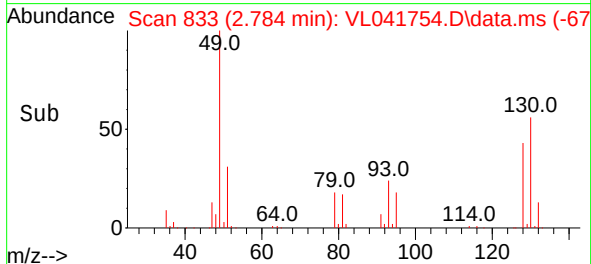
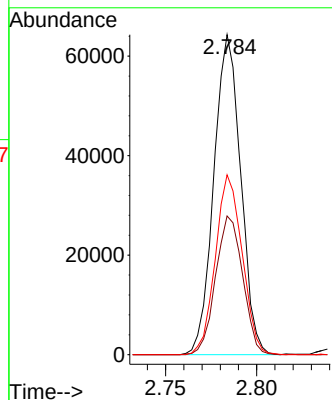
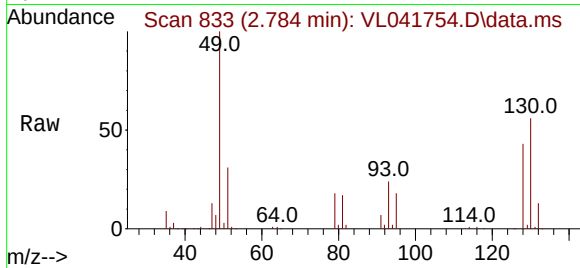
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

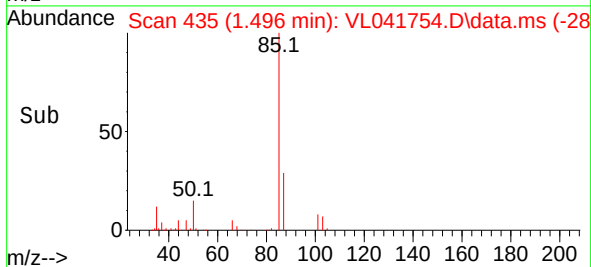
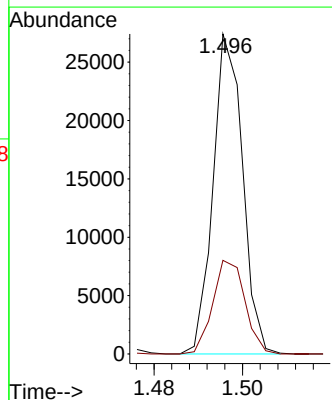
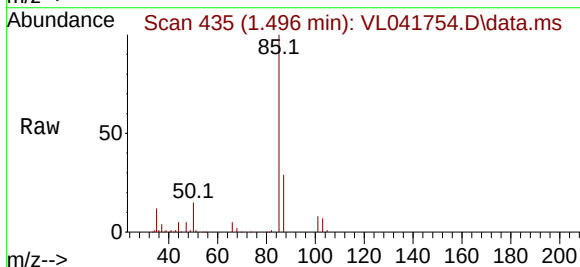
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

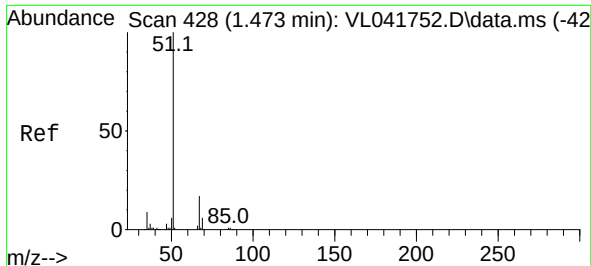
Tgt Ion: 49 Resp: 65928
 Ion Ratio Lower Upper
 49 100
 128 43.6 21.6 64.6
 130 56.0 28.3 85.0



#2
 Dichlorodifluoromethane
 Concen: 1.083 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 85 Resp: 12706
 Ion Ratio Lower Upper
 85 100
 87 29.3 24.5 36.7

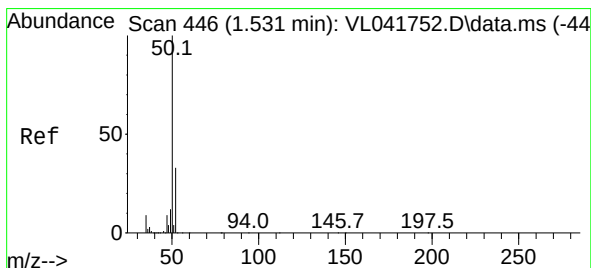
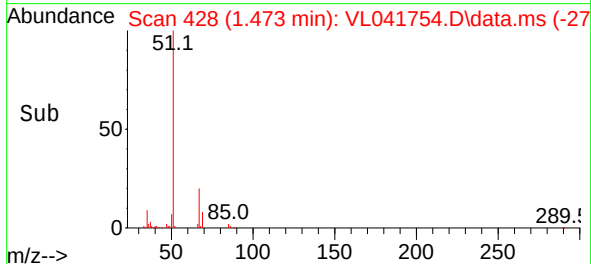
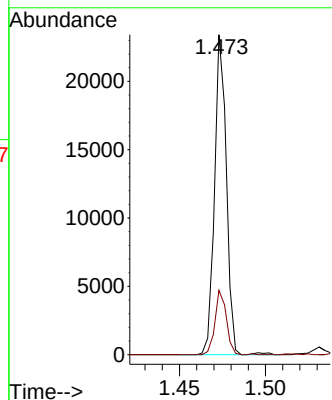
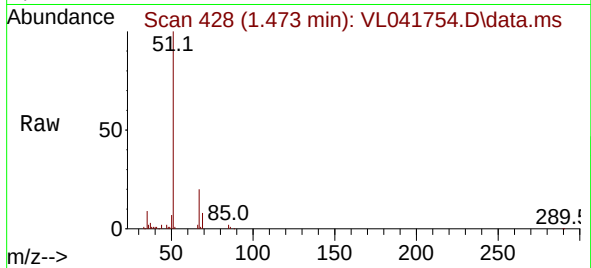




#3
Chlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

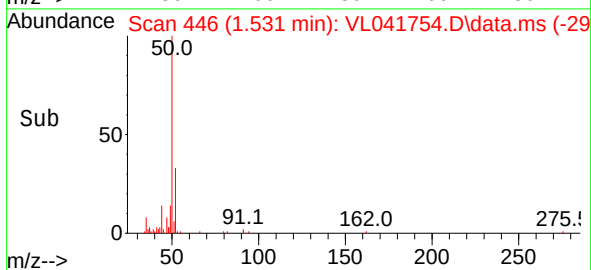
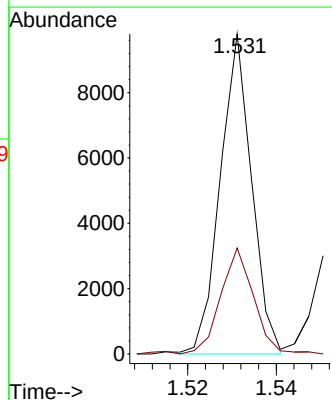
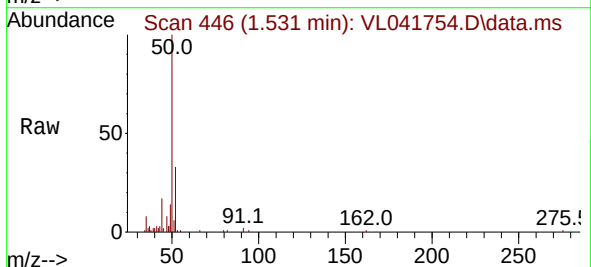
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

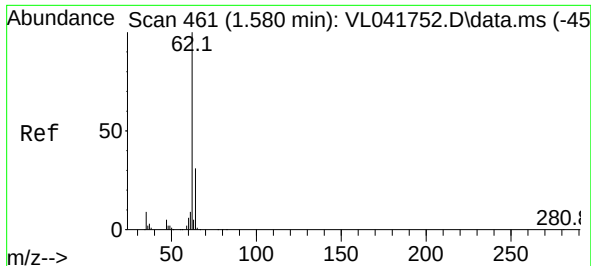
Tgt Ion: 51 Resp: 11187
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.4



#4
Chloromethane
Concen: 1.047 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 50 Resp: 4805
Ion Ratio Lower Upper
50 100
52 33.3 26.2 39.2

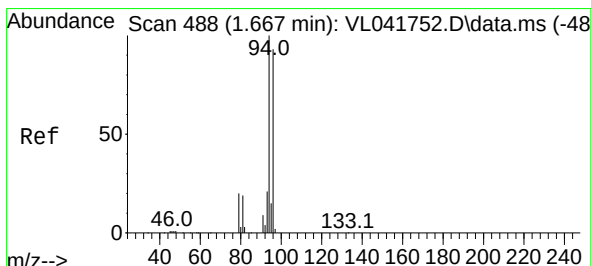
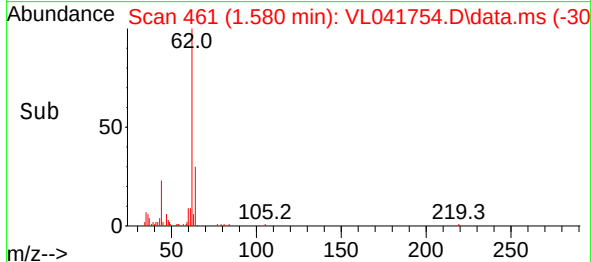
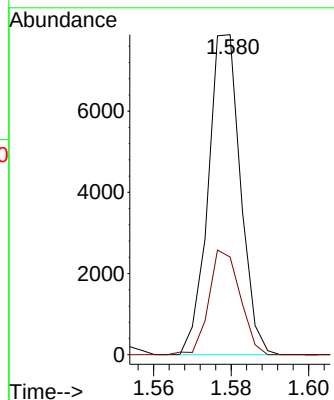
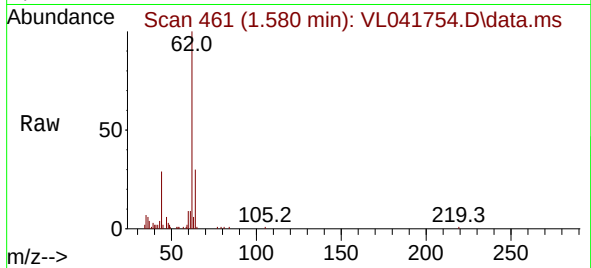




#5
 Vinyl Chloride
 Concen: 0.990 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

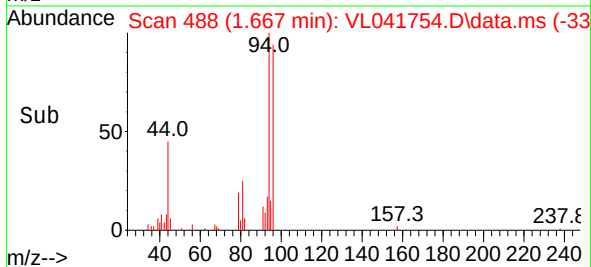
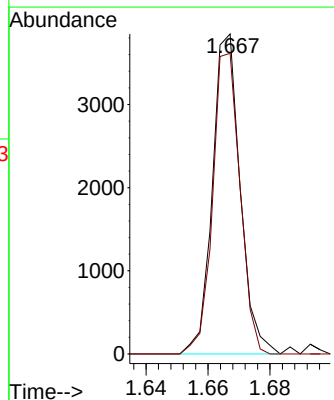
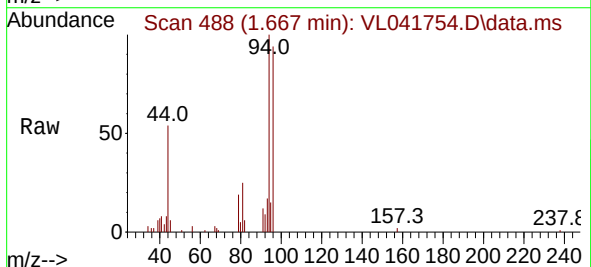
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

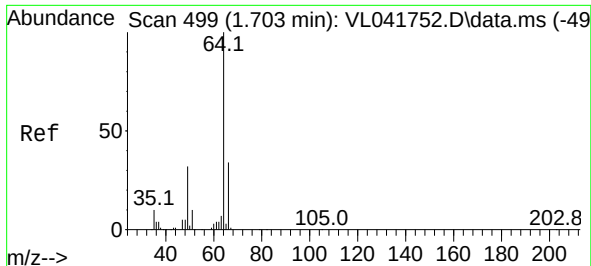
Tgt Ion: 62 Resp: 4580
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.1 37.7



#6
 Bromomethane
 Concen: 1.097 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 94.0 74.7 112.1

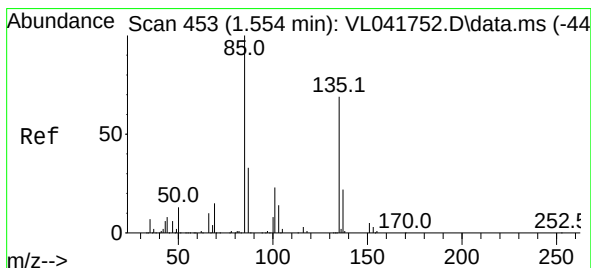
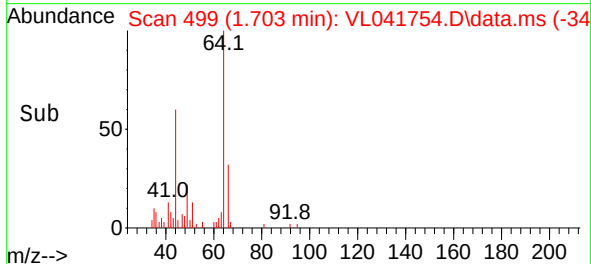
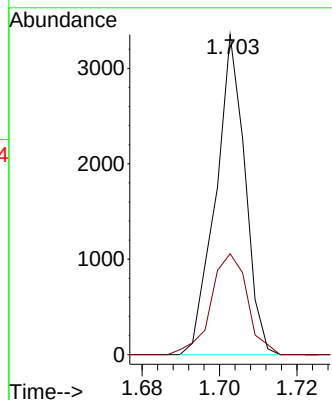
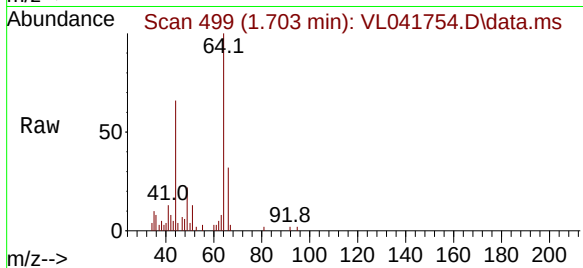




#7
Chloroethane
Concen: 0.981 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

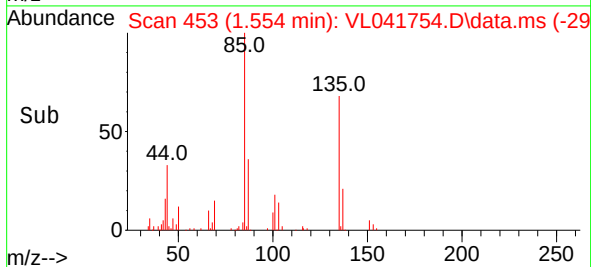
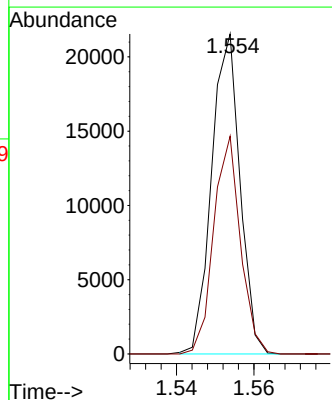
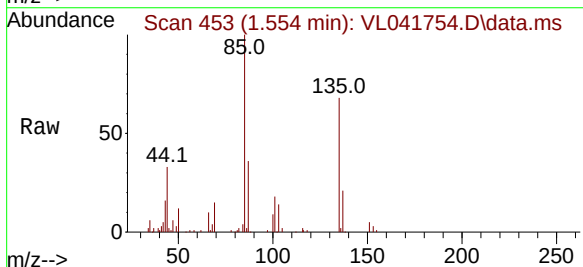
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

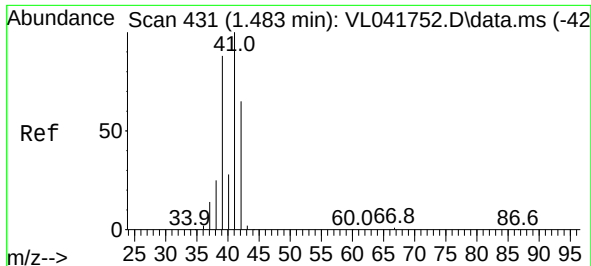
Tgt Ion: 64 Resp: 1763
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 1.042 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 85 Resp: 10938
Ion Ratio Lower Upper
85 100
135 64.3 51.9 77.9





#9

Propene

Concen: 1.039 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

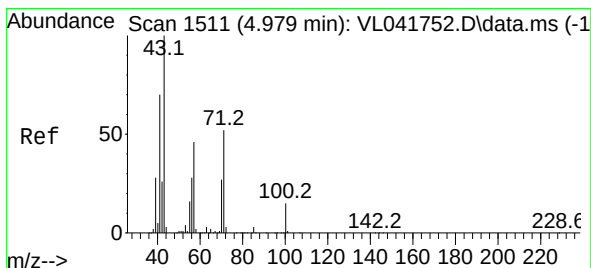
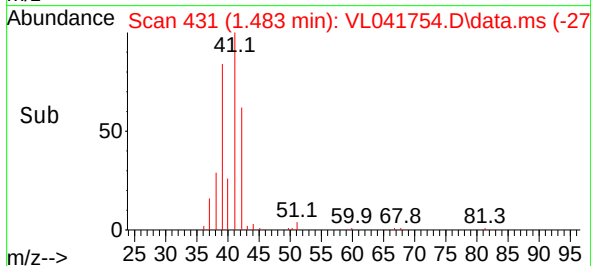
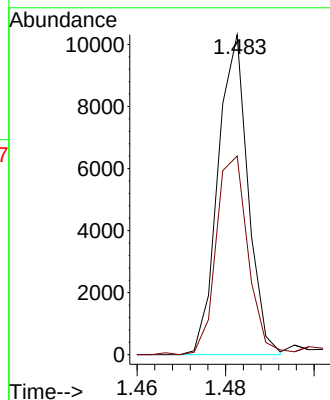
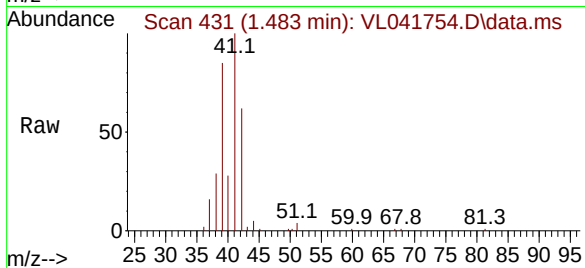
VSTDIC001

Tgt Ion: 41 Resp: 4840

Ion Ratio Lower Upper

41 100

42 70.4 52.4 78.6



#10

Heptane

Concen: 1.003 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.007 min

Lab File: VL041754.D

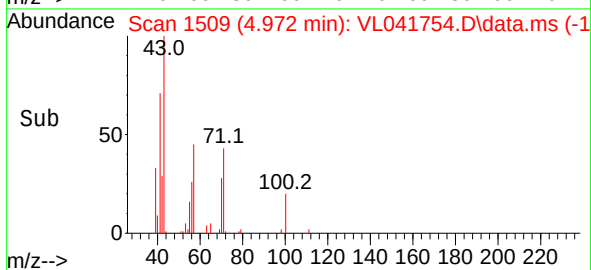
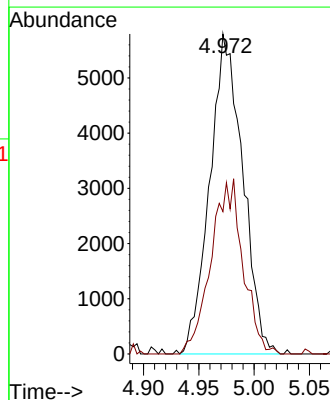
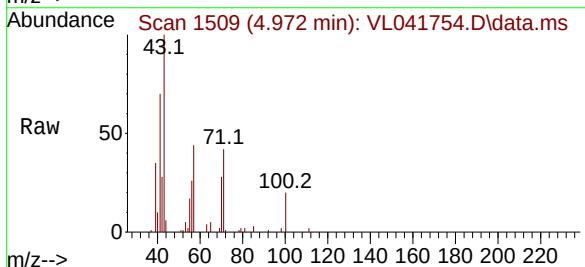
Acq: 16 Dec 2024 14:34

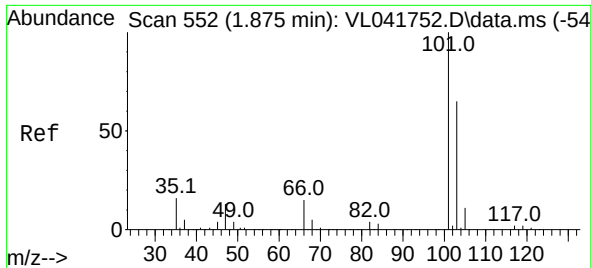
Tgt Ion: 43 Resp: 12004

Ion Ratio Lower Upper

43 100

57 53.0 38.5 57.7

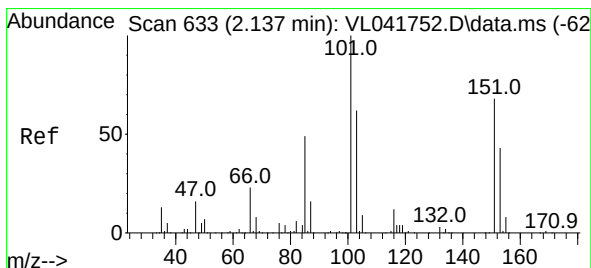
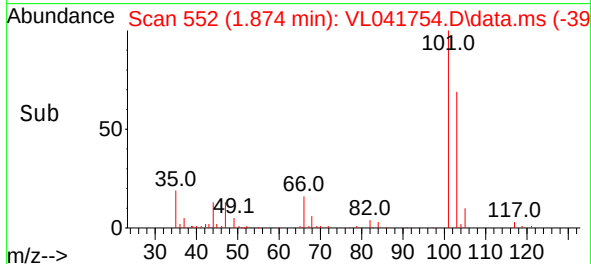
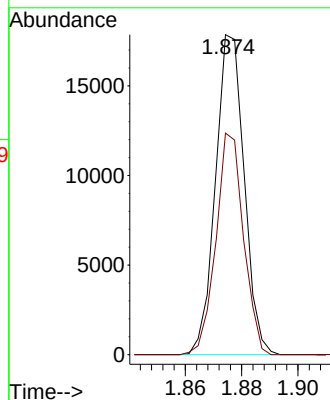
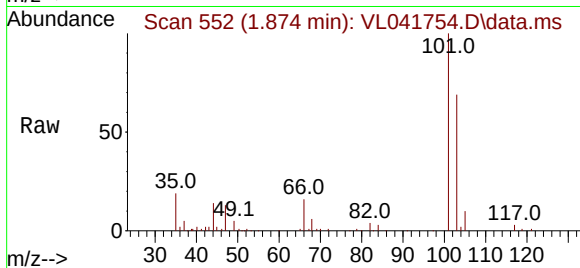




#11
 Trichlorofluoromethane
 Concen: 1.013 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

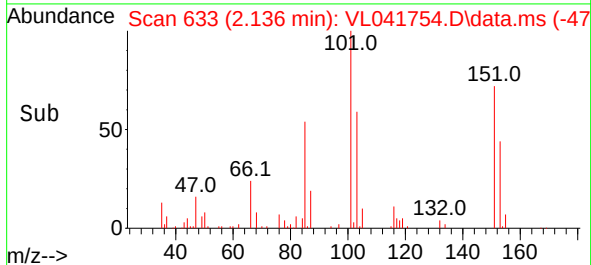
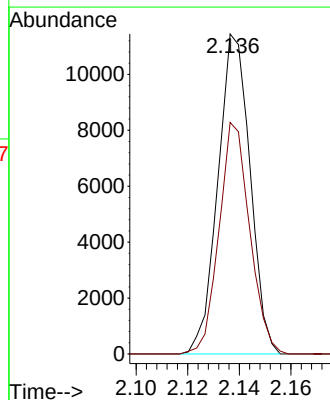
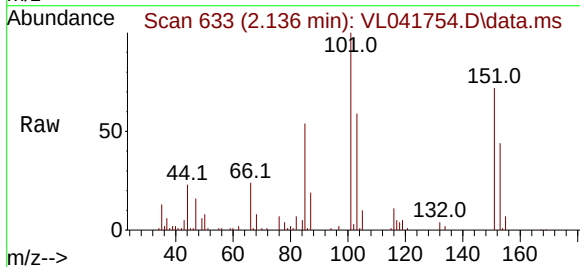
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

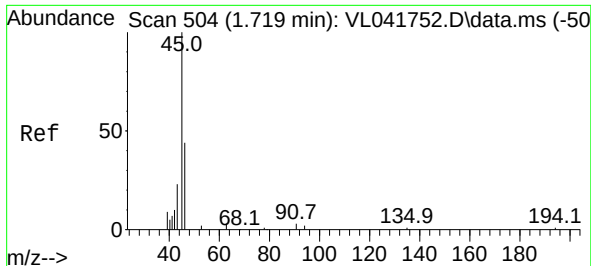
Tgt Ion:101 Resp: 12625
 Ion Ratio Lower Upper
 101 100
 103 69.3 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.046 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion:101 Resp: 9915
 Ion Ratio Lower Upper
 101 100
 151 69.1 56.8 85.2





#13

Ethanol

Concen: 1.587 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

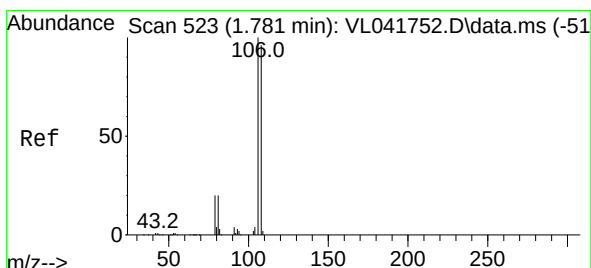
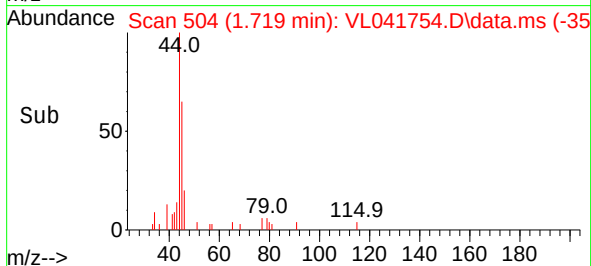
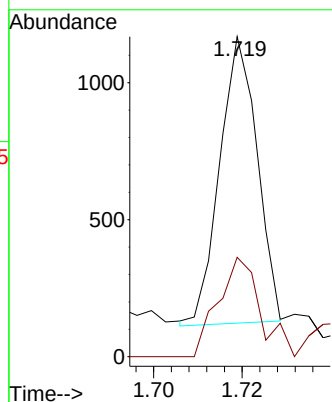
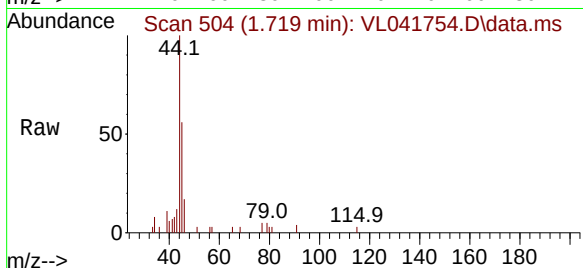
VSTDIC001

Tgt Ion: 45 Resp: 615

Ion Ratio Lower Upper

45 100

46 57.2 16.4 65.8



#14

Bromoethene

Concen: 0.984 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

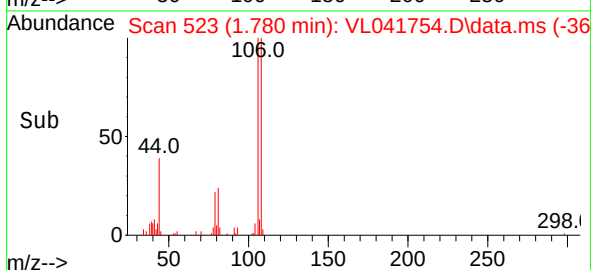
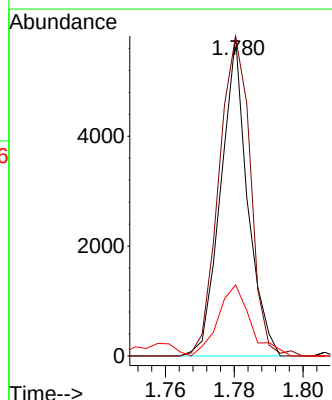
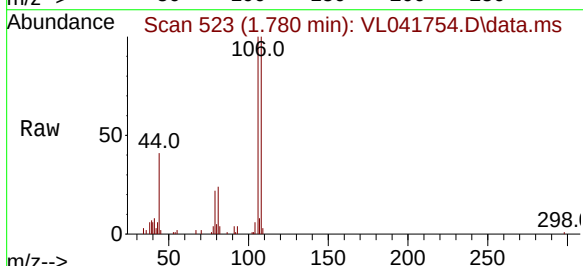
Tgt Ion: 108 Resp: 3148

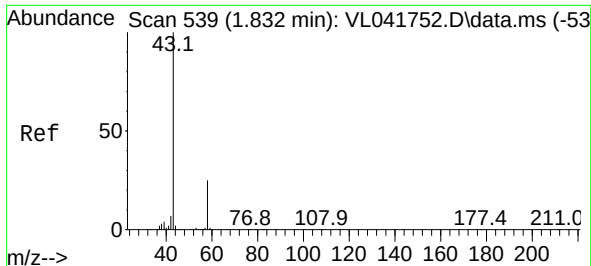
Ion Ratio Lower Upper

108 100

106 117.5 84.1 126.1

79 32.4 17.4 26.0#

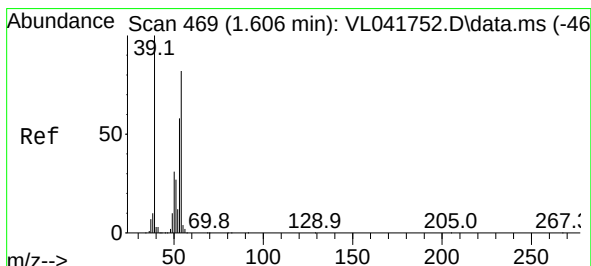
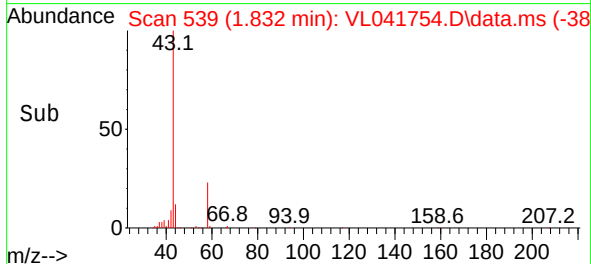
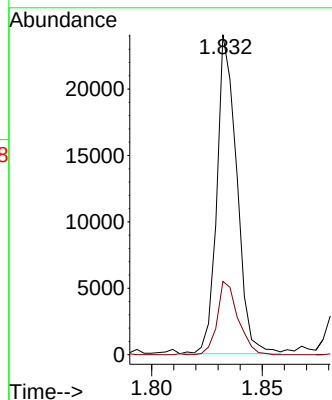
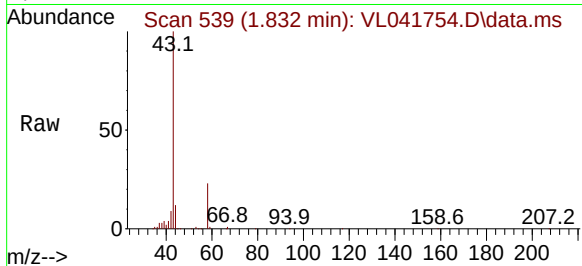




#15
Acetone
Concen: 1.174 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

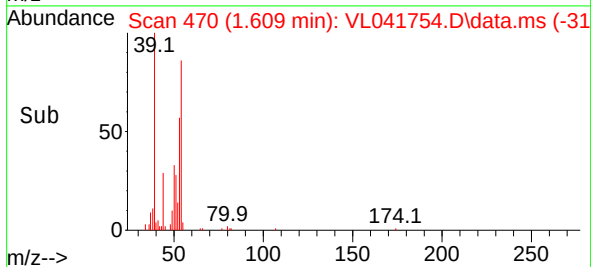
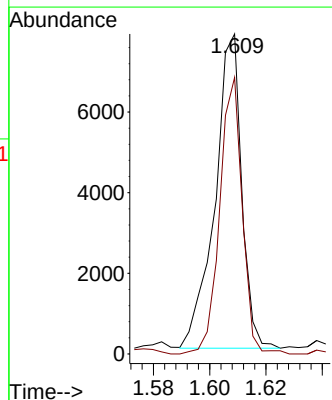
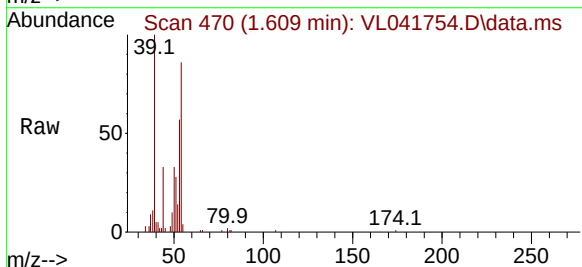
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

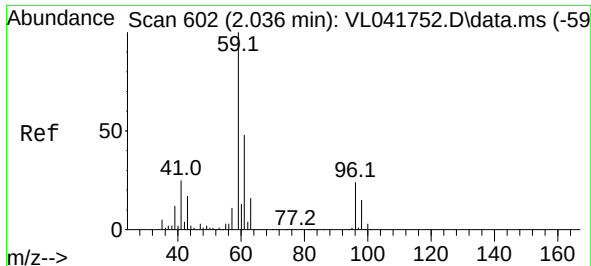
Tgt Ion: 43 Resp: 15060
Ion Ratio Lower Upper
43 100
58 24.0 19.7 29.5



#16
1,3-Butadiene
Concen: 1.017 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 39 Resp: 5137
Ion Ratio Lower Upper
39 100
54 77.0 58.4 87.6





#17

tert-Butyl alcohol

Concen: 1.048 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

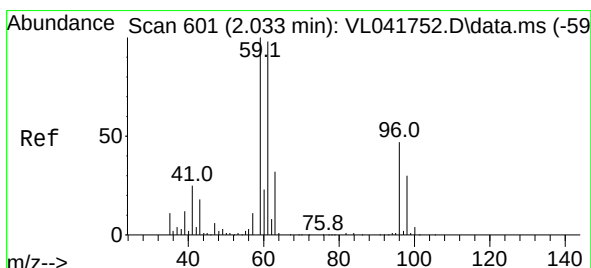
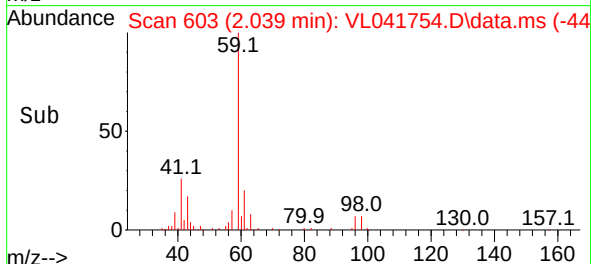
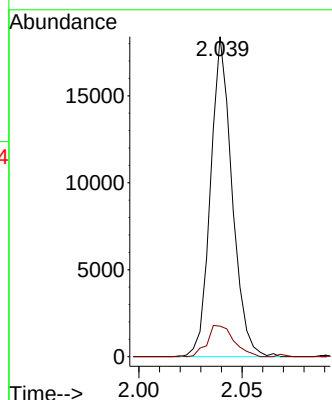
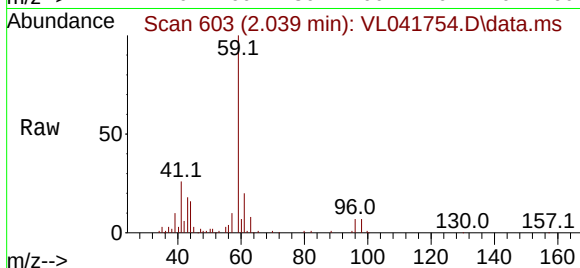
VSTDIC001

Tgt Ion: 59 Resp: 13341

Ion Ratio Lower Upper

59 100

57 12.4 8.6 13.0



#18

1,1-Dichloroethene

Concen: 1.042 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

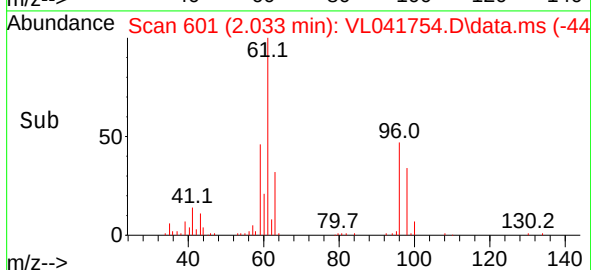
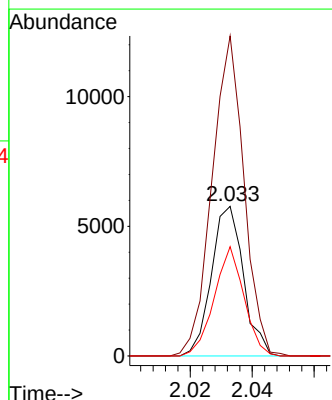
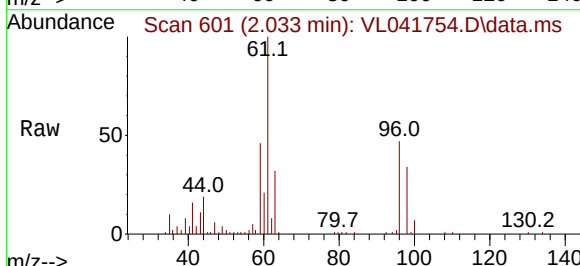
Tgt Ion: 96 Resp: 4139

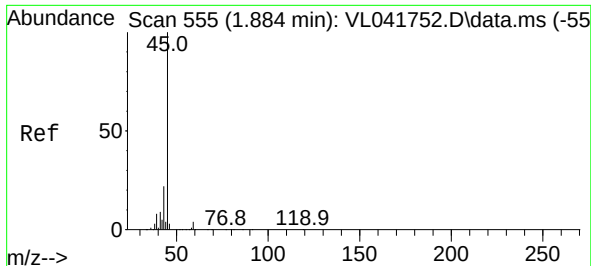
Ion Ratio Lower Upper

96 100

61 212.1 167.7 251.5

98 73.0 51.1 76.7





#19

Isopropyl Alcohol

Concen: 1.131 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

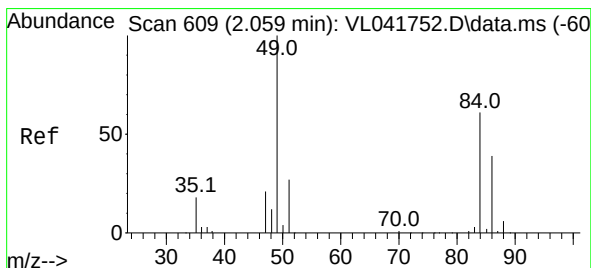
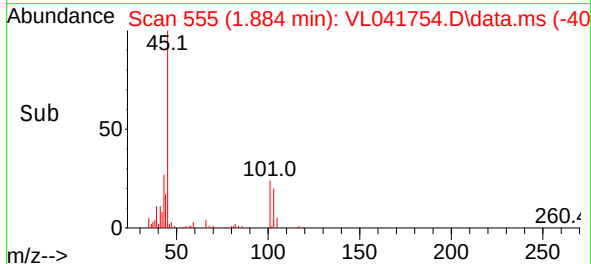
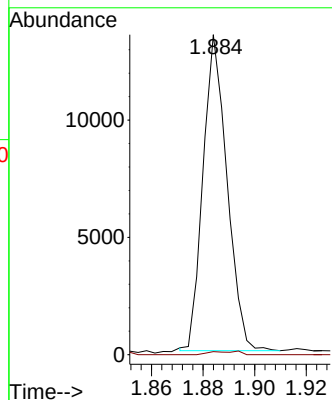
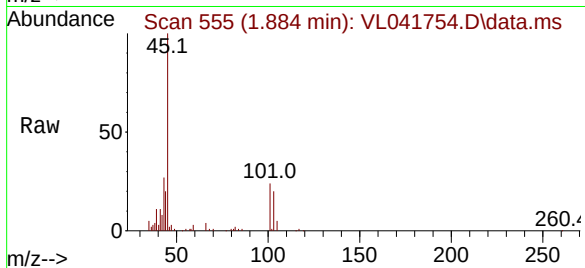
VSTDIC001

Tgt Ion: 45 Resp: 8703

Ion Ratio Lower Upper

45 100

58 41.5 33.3 49.9



#20

Methylene Chloride

Concen: 1.057 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 84 Resp: 3868

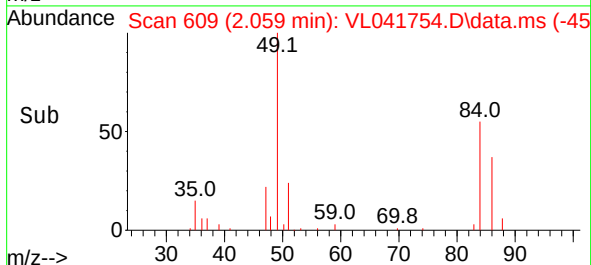
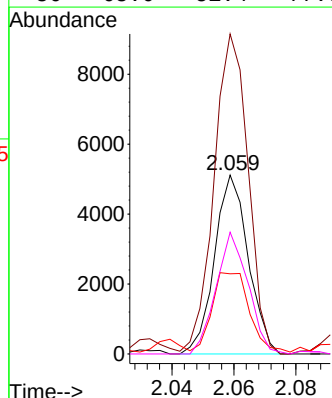
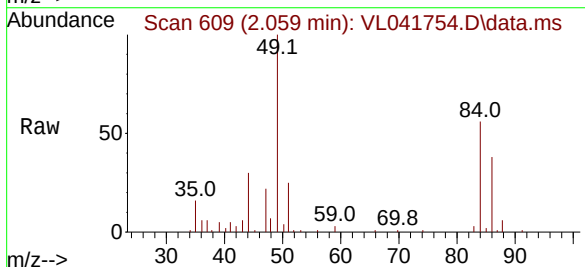
Ion Ratio Lower Upper

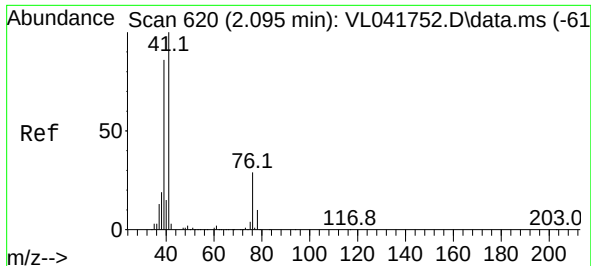
84 100

49 178.8 132.6 198.8

51 41.9 37.6 56.4

86 68.0 51.4 77.0





#21

Allyl Chloride

Concen: 1.067 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

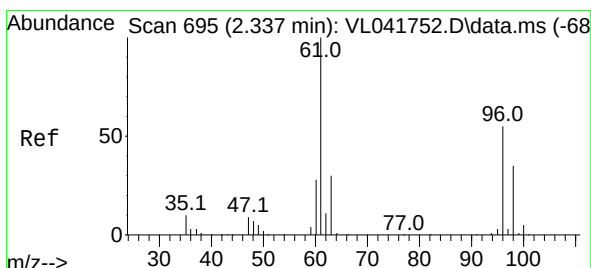
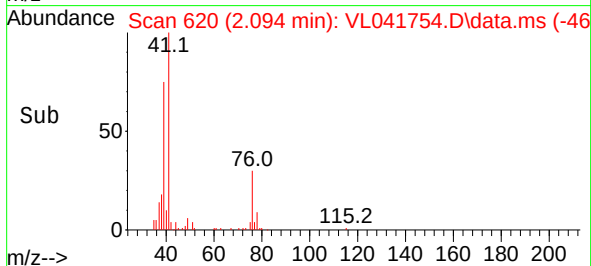
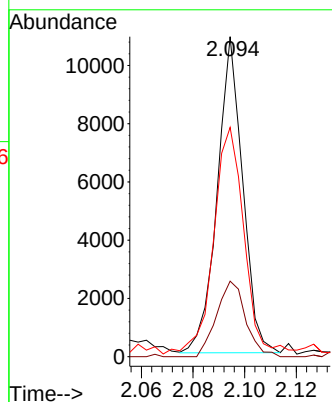
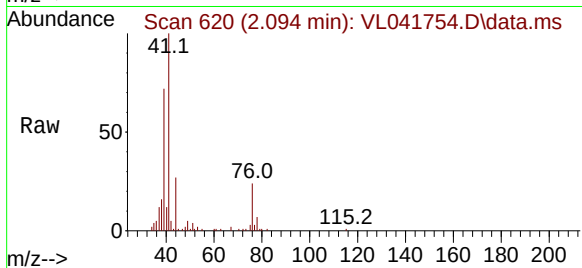
Tgt Ion: 41 Resp: 7425

Ion Ratio Lower Upper

41 100

76 27.2 22.3 33.5

39 84.3 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 1.011 ppbv

RT: 2.337 min Scan# 695

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

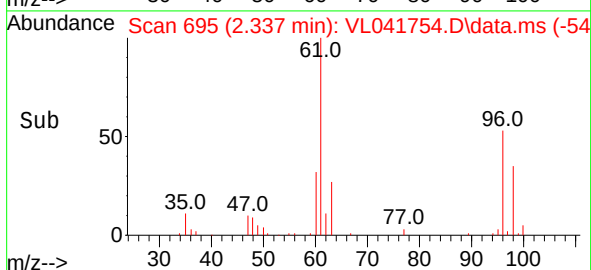
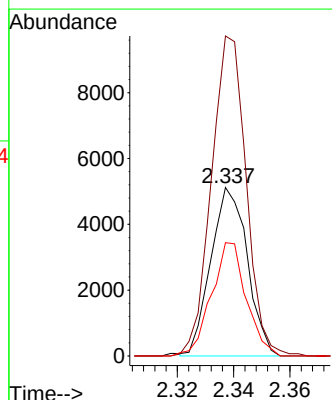
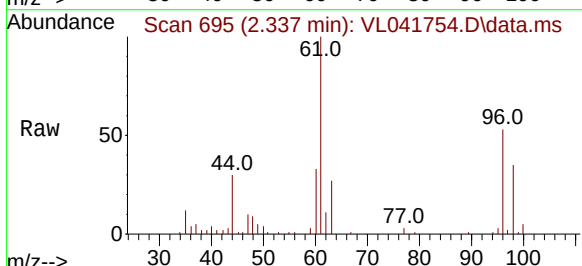
Tgt Ion: 96 Resp: 4599

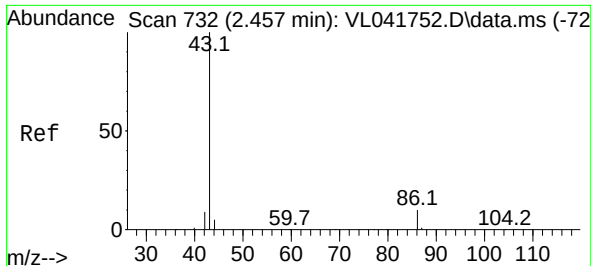
Ion Ratio Lower Upper

96 100

61 188.9 146.3 219.5

98 67.3 50.8 76.2

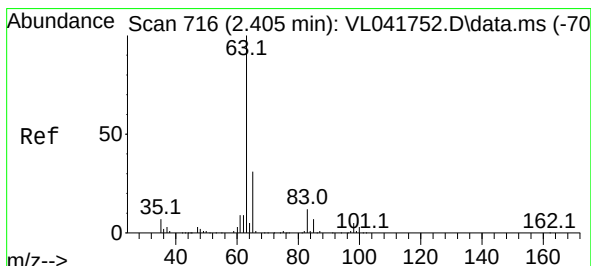
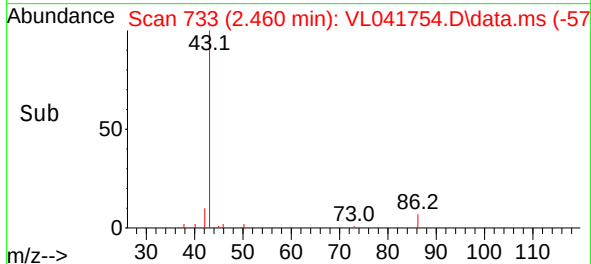
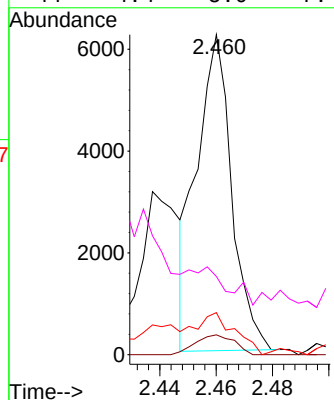
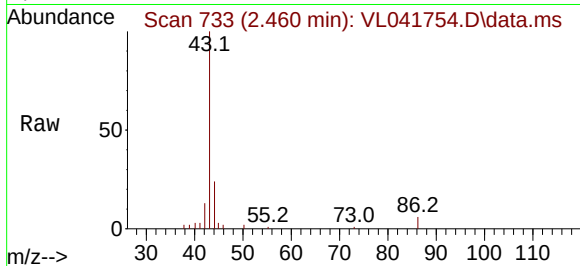




#23
 Vinyl Acetate
 Concen: 0.959 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

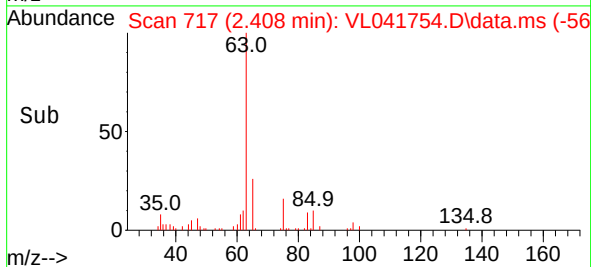
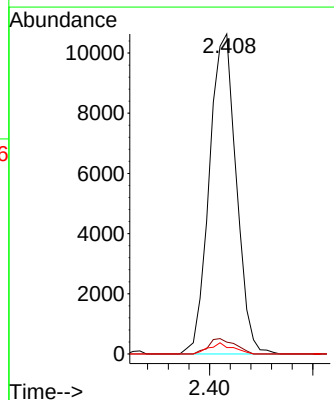
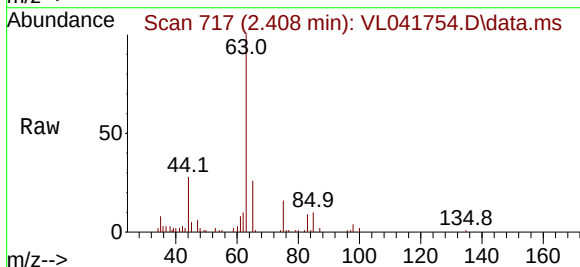
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

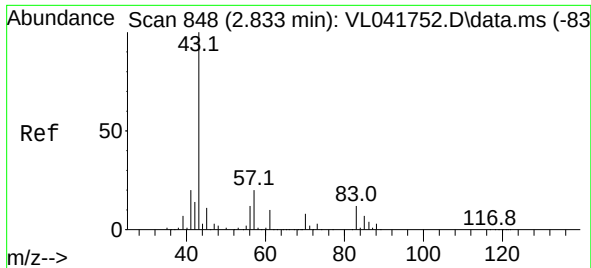
Tgt Ion	43	Resp: Lower	5345 Upper
43	100		
86	6.3	6.6	10.0#
42	11.4	8.2	12.2
44	4.4	5.0	7.4#



#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 63	Resp: 9621
Ion Ratio	Lower Upper
63 100	
98 3.7	2.3 6.8
100 2.0	1.4 4.2





#25

Ethyl Acetate

Concen: 1.049 ppbv

RT: 2.836 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 25141

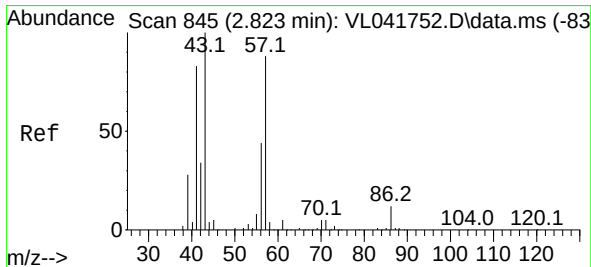
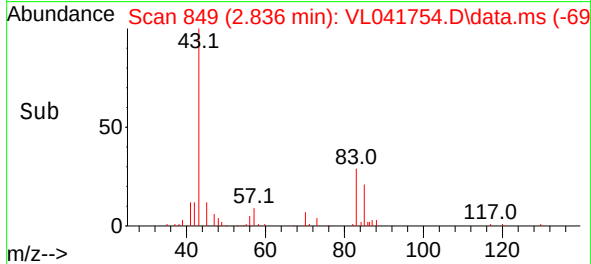
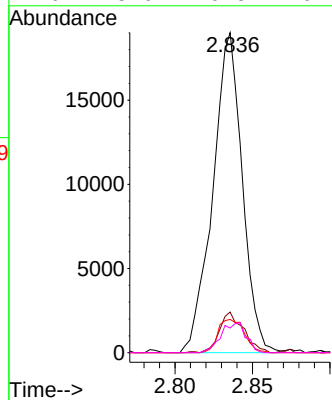
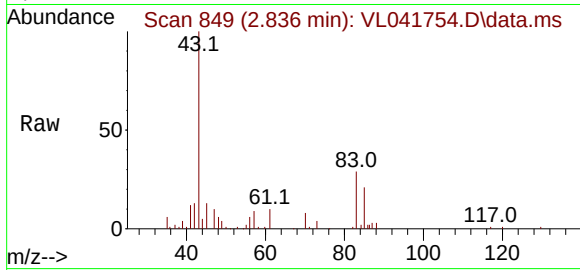
Ion Ratio Lower Upper

43 100

45 10.7 8.1 12.1

61 9.3 7.0 10.6

70 8.0 6.5 9.7



#26

Hexane

Concen: 1.021 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 57 Resp: 9250

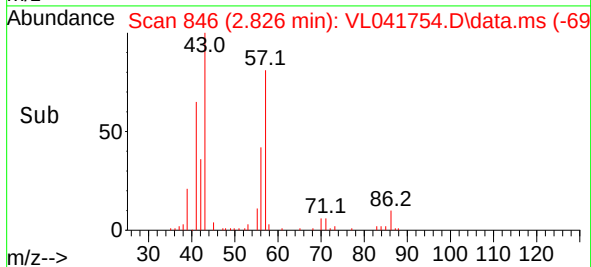
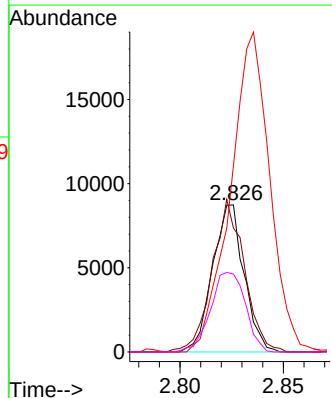
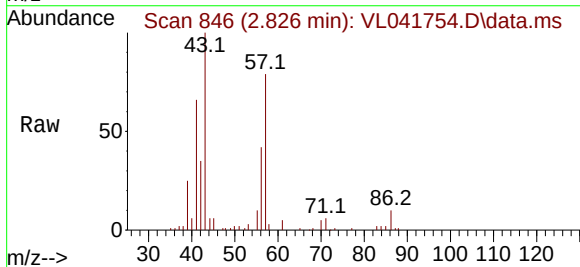
Ion Ratio Lower Upper

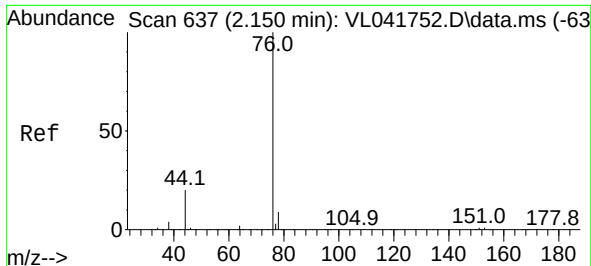
57 100

41 105.9 79.6 119.4

43 274.5 211.0 316.6

56 60.0 42.6 63.8





#27

Carbon Disulfide

Concen: 0.999 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

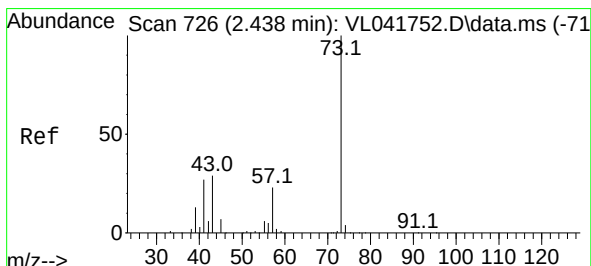
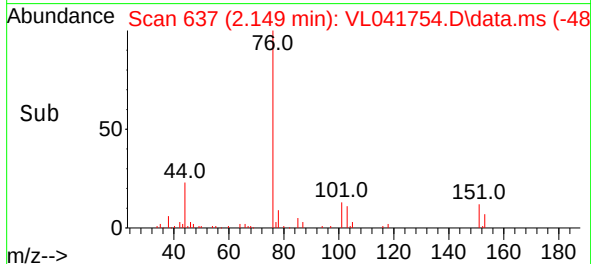
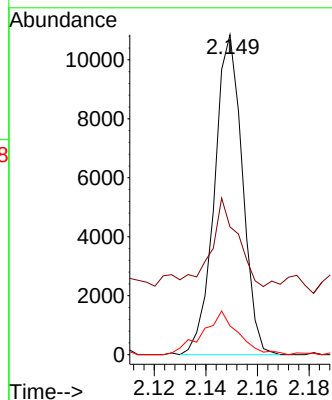
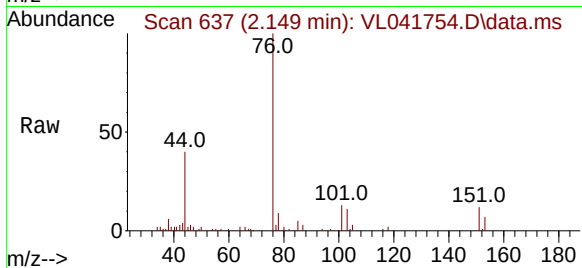
Tgt Ion: 76 Resp: 8152

Ion Ratio Lower Upper

76 100

44 79.9 17.6 26.4#

78 17.6 10.2 15.4#



#28

Methyl tert-Butyl Ether

Concen: 1.162 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.003 min

Lab File: VL041754.D

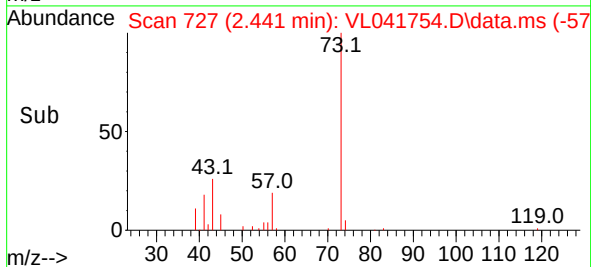
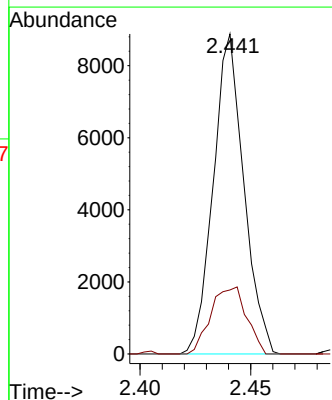
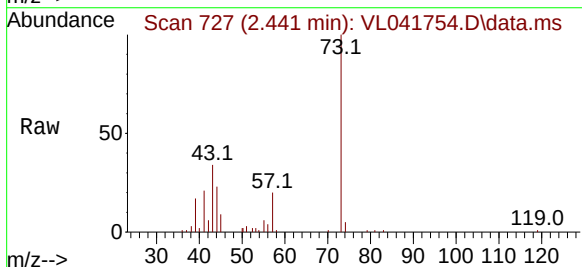
Acq: 16 Dec 2024 14:34

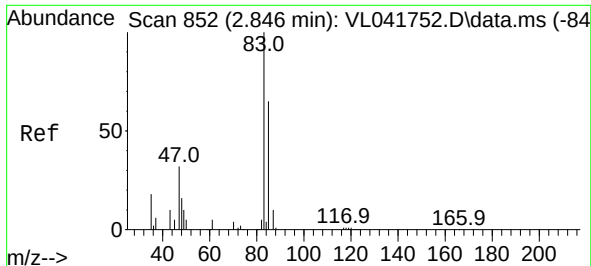
Tgt Ion: 73 Resp: 8539

Ion Ratio Lower Upper

73 100

57 24.7 17.6 26.4





#29

Chloroform

Concen: 1.042 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

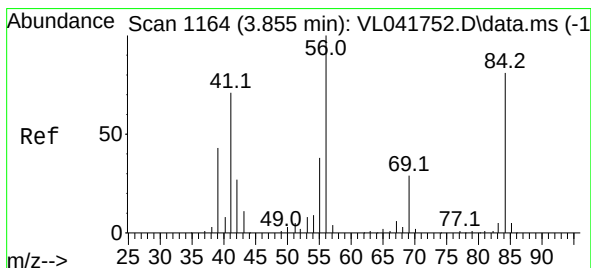
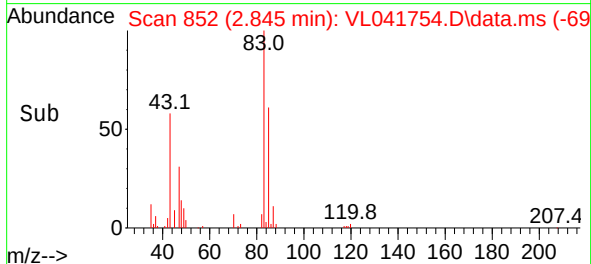
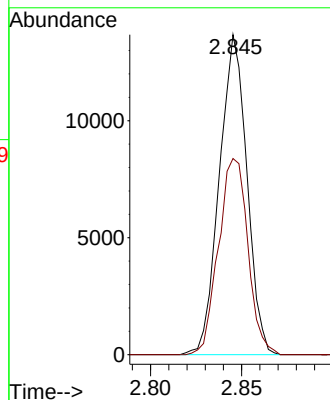
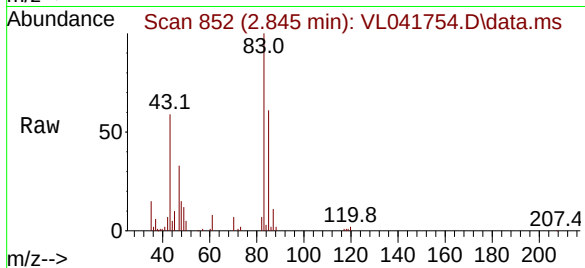
VSTDIC001

Tgt Ion: 83 Resp: 14384

Ion Ratio Lower Upper

83 100

85 61.3 51.8 77.6



#30

Cyclohexane

Concen: 1.015 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

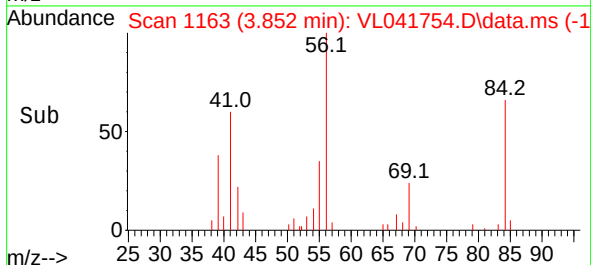
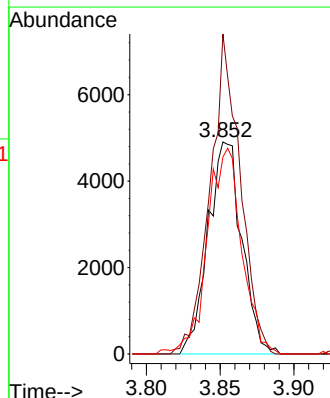
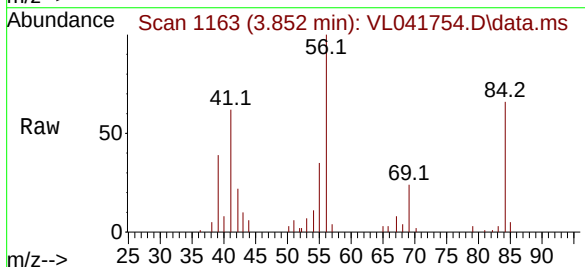
Tgt Ion: 84 Resp: 7824

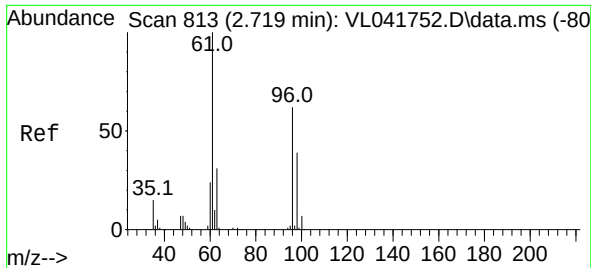
Ion Ratio Lower Upper

84 100

56 134.4 102.3 153.5

41 99.6 74.0 111.0

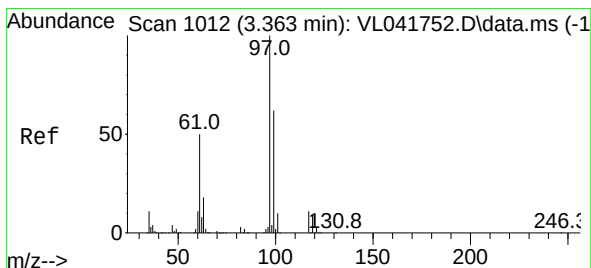
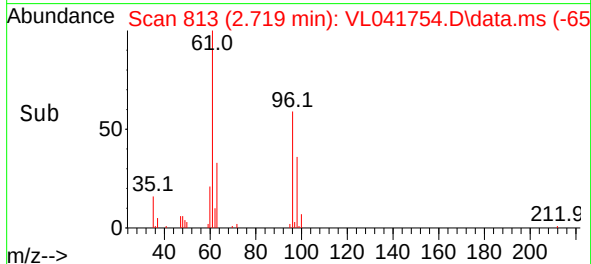
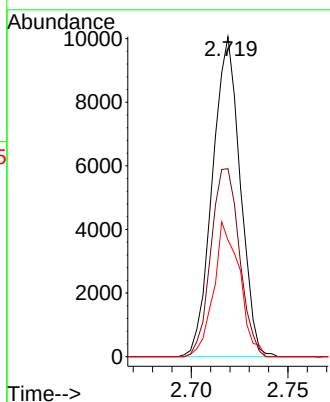
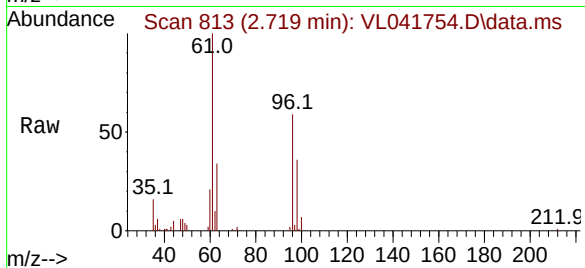




#31
 cis-1,2-Dichloroethene
 Concen: 1.070 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

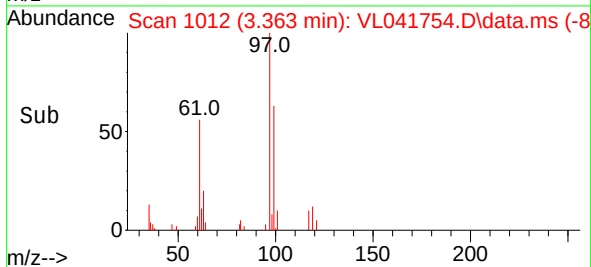
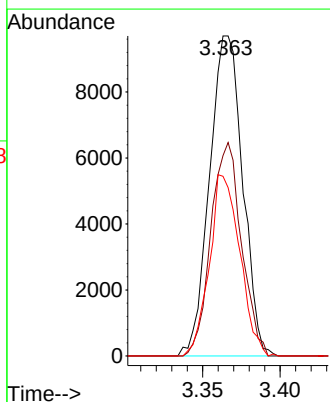
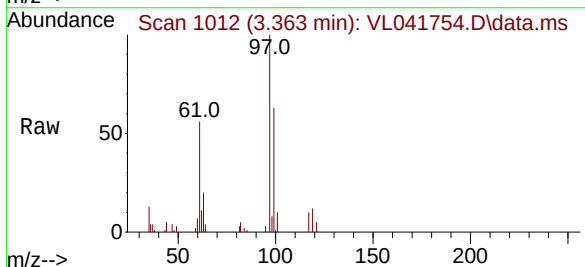
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

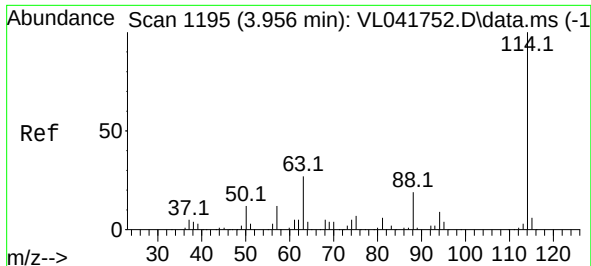
Tgt Ion: 61 Resp: 10013
 Ion Ratio Lower Upper
 61 100
 96 58.7 49.7 74.5
 98 36.5 30.8 46.2



#32
 1,1,1-Trichloroethane
 Concen: 1.049 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 97 Resp: 14415
 Ion Ratio Lower Upper
 97 100
 99 61.7 51.0 76.4
 61 52.0 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

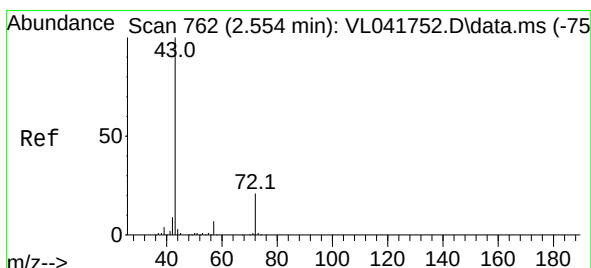
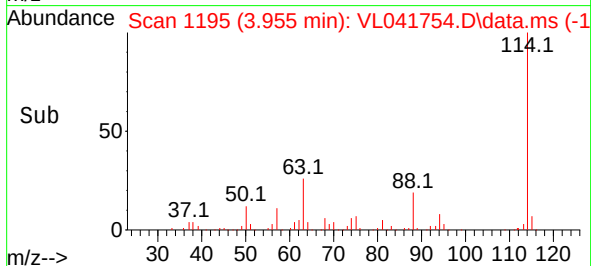
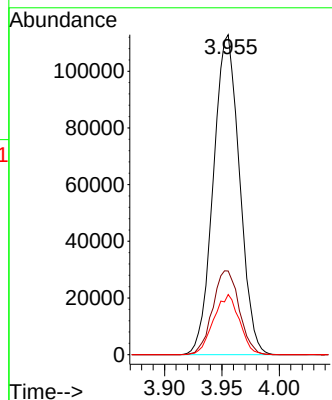
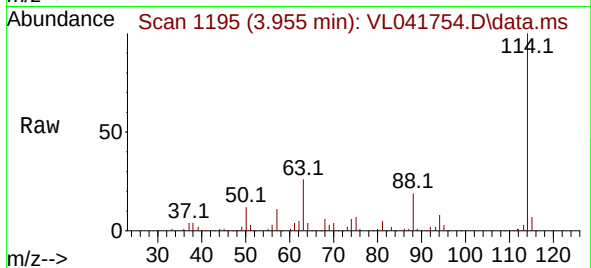
Tgt Ion:114 Resp: 178926

Ion Ratio Lower Upper

114 100

63 26.7 21.8 32.8

88 18.6 14.8 22.2



#34

2-Butanone

Concen: 1.019 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL041754.D

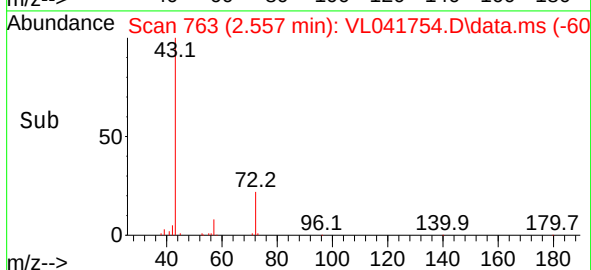
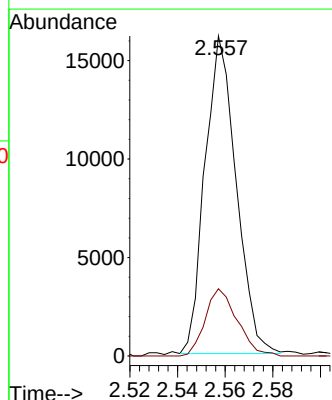
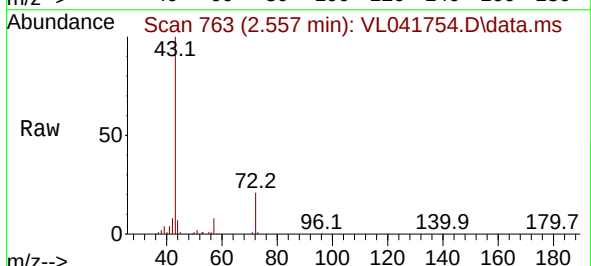
Acq: 16 Dec 2024 14:34

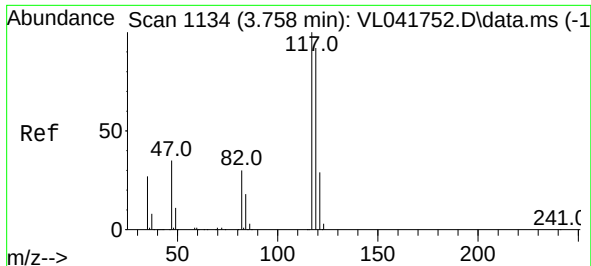
Tgt Ion: 43 Resp: 14673

Ion Ratio Lower Upper

43 100

72 21.7 16.8 25.2

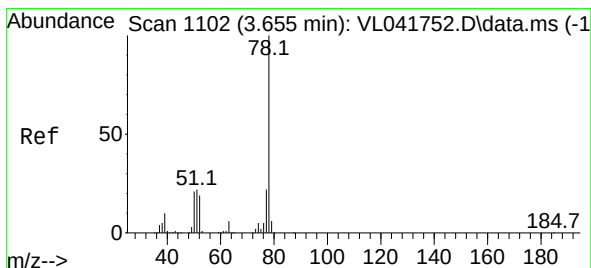
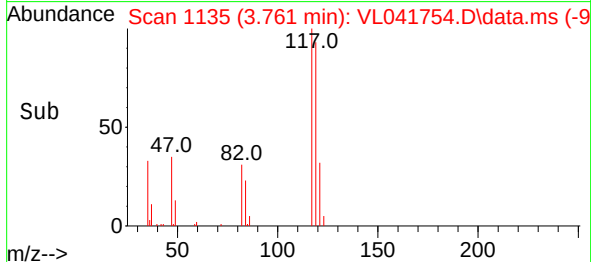
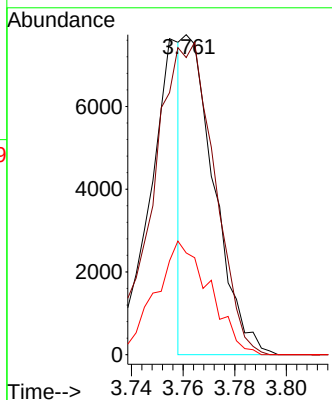
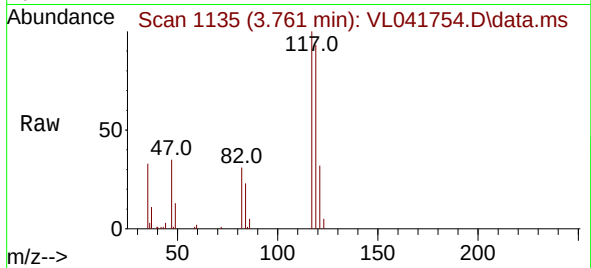




#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

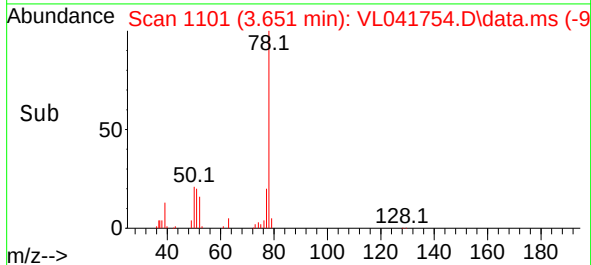
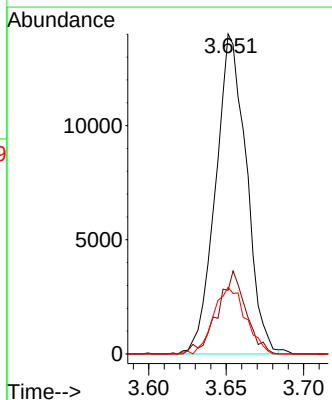
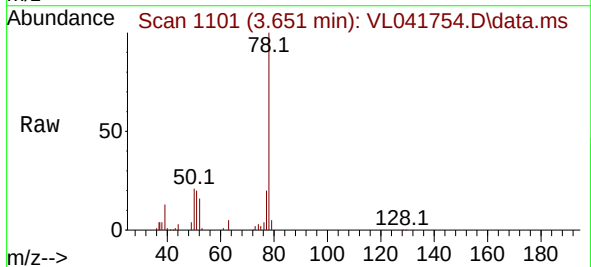
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

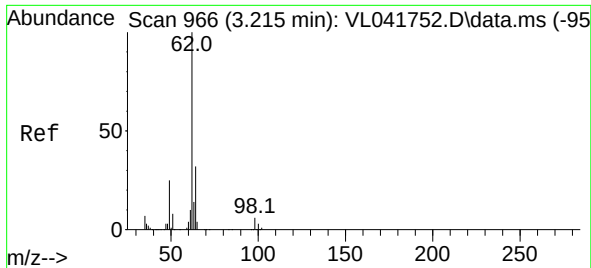
Tgt Ion:117 Resp: 6520
Ion Ratio Lower Upper
117 100
119 92.9 73.7 110.5
121 31.8 23.0 34.4



#36
Benzene
Concen: 1.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.004 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 78 Resp: 19331
Ion Ratio Lower Upper
78 100
77 19.9 17.8 26.6
50 20.8 17.2 25.8

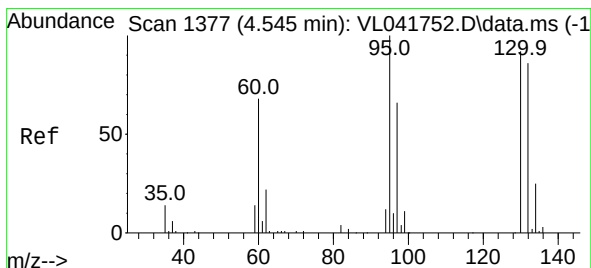
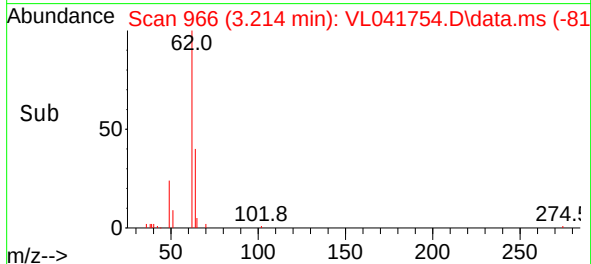
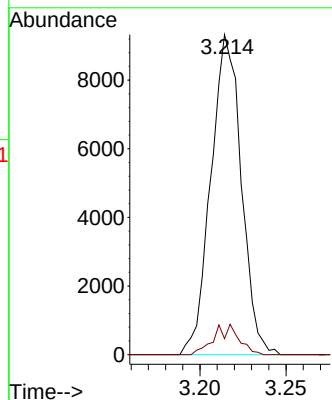
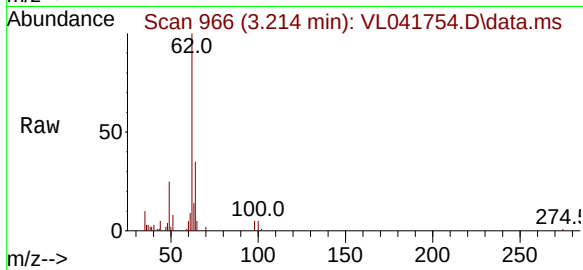




#37
1,2-Dichloroethane
Concen: 0.998 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

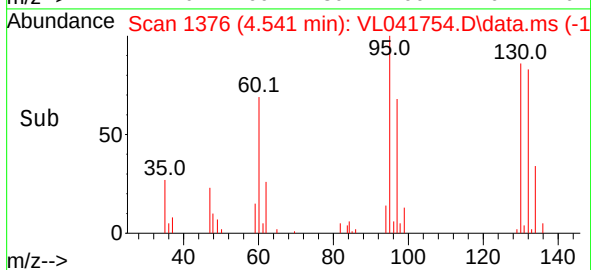
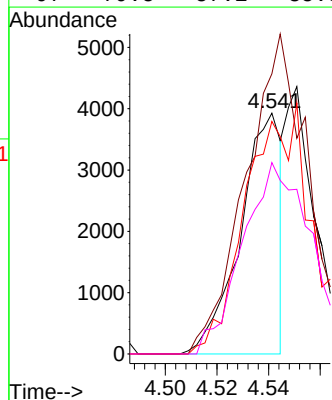
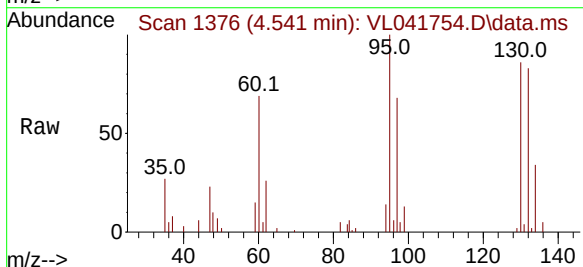
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

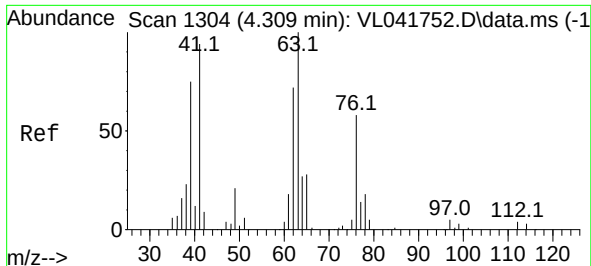
Tgt Ion: 62 Resp: 11490
Ion Ratio Lower Upper
62 100
98 7.8 4.7 7.1#



#38
Trichloroethene
Concen: 0.552 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:130 Resp: 4300
Ion Ratio Lower Upper
130 100
95 116.3 87.0 130.6
132 96.6 75.0 112.6
97 79.5 57.2 85.8





#39

1,2-Dichloropropane

Concen: 1.056 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

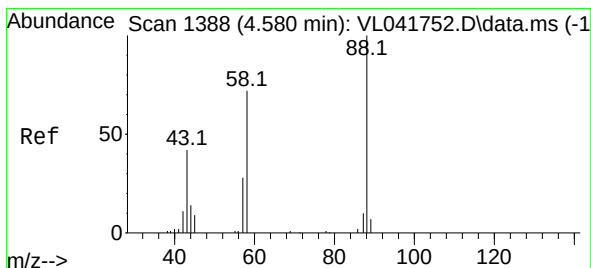
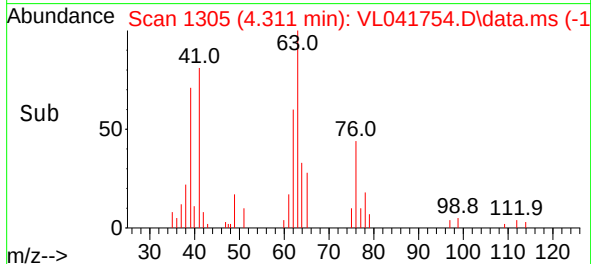
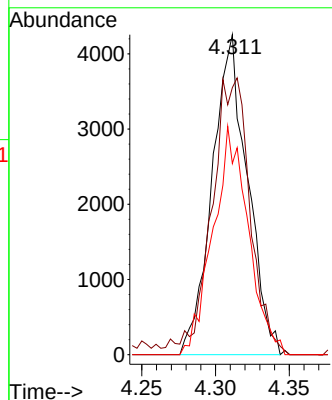
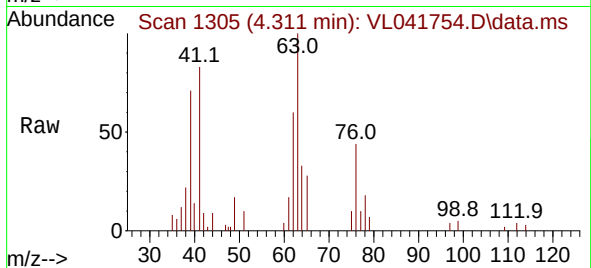
Tgt Ion: 63 Resp: 7068

Ion Ratio Lower Upper

63 100

41 80.8 75.3 112.9

62 59.8 57.3 85.9



#40

1,4-Dioxane

Concen: 0.991 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.016 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 88 Resp: 3241

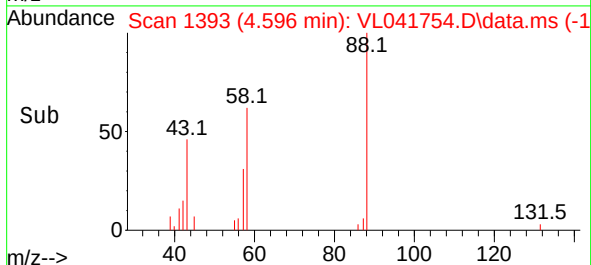
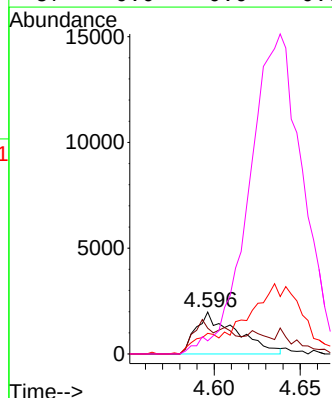
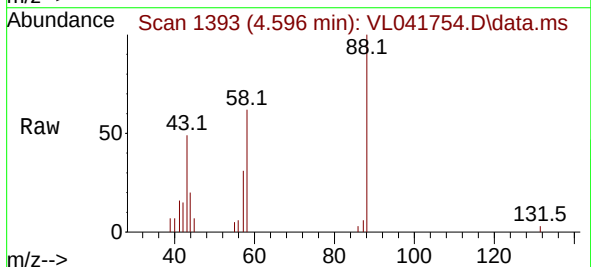
Ion Ratio Lower Upper

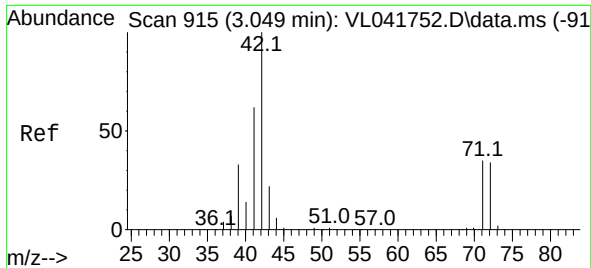
88 100

58 127.2 61.0 91.6#

43 0.0 29.4 44.0#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.082 ppbv

RT: 3.062 min Scan# 915

Delta R.T. 0.013 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

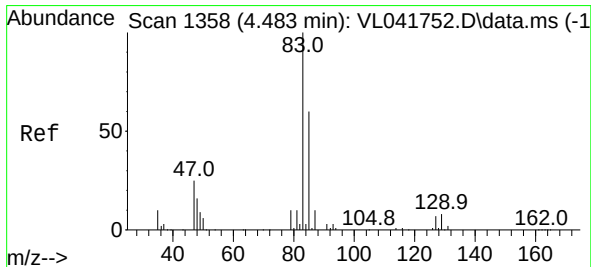
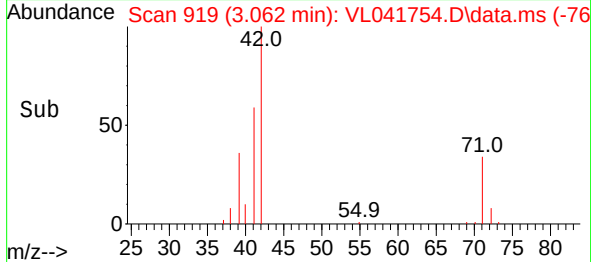
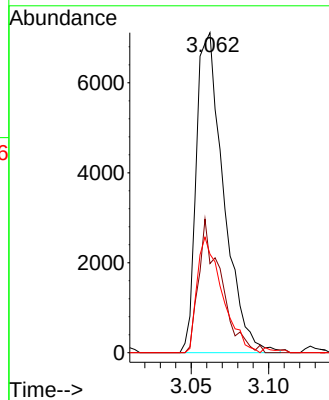
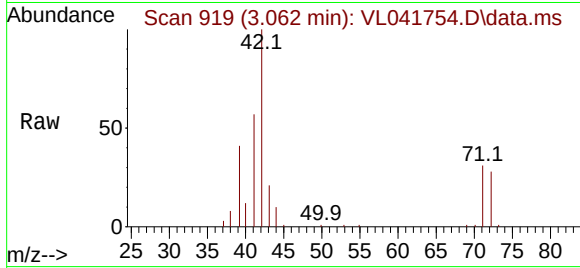
Tgt Ion: 42 Resp: 8727

Ion Ratio Lower Upper

42 100

72 34.4 29.1 43.7

71 34.0 28.4 42.6



#42

Bromodichloromethane

Concen: 0.993 ppbv

RT: 4.489 min Scan# 1360

Delta R.T. 0.006 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

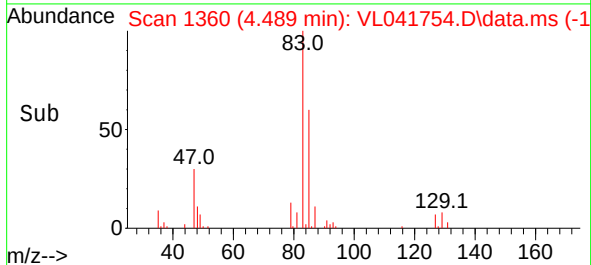
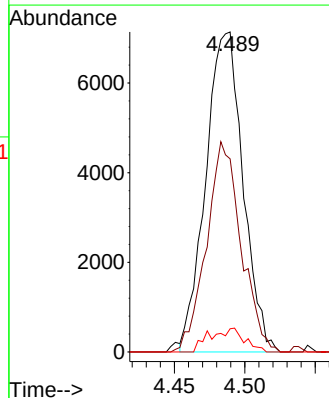
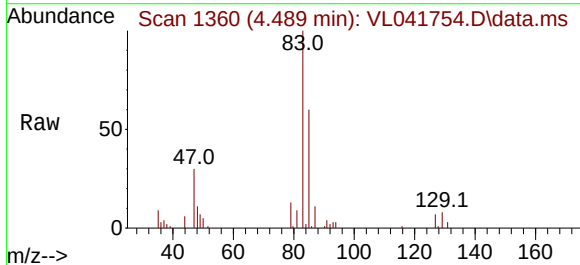
Tgt Ion: 83 Resp: 13154

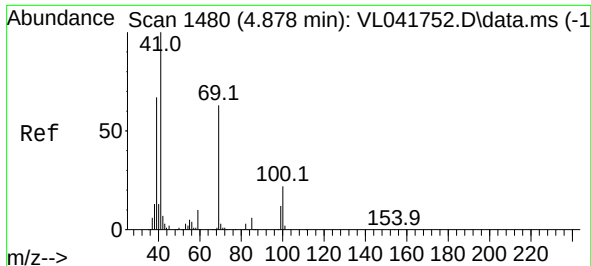
Ion Ratio Lower Upper

83 100

85 60.4 48.0 72.0

127 7.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 0.670 ppbv

RT: 4.875 min Scan# 1479

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC001

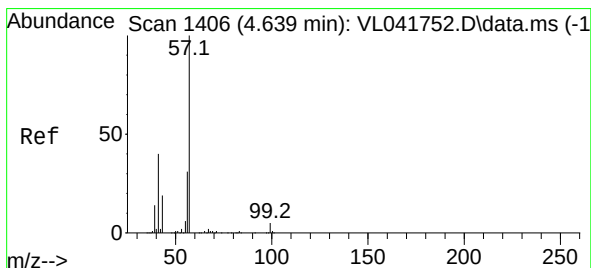
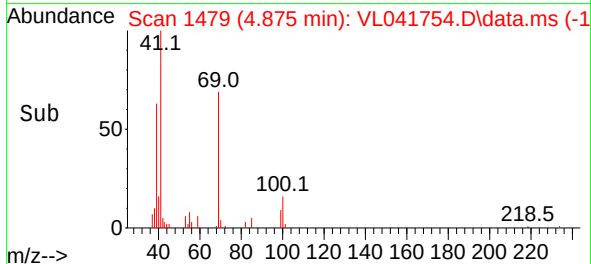
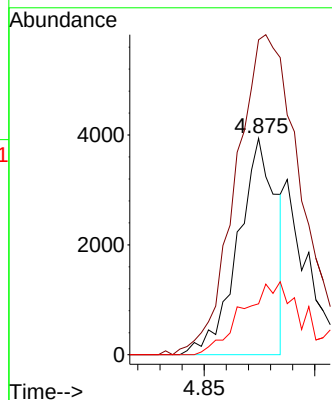
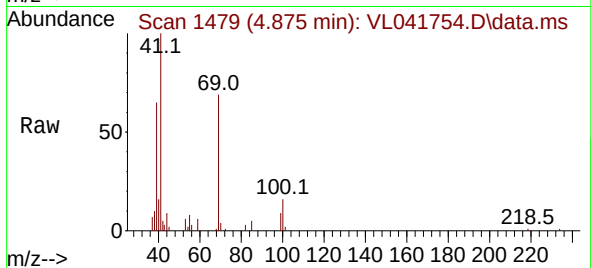
Tgt Ion: 69 Resp: 4727

Ion Ratio Lower Upper

69 100

41 252.5 130.3 195.5#

100 0.0 28.3 42.5#



#44

2,2,4-Trimethylpentane

Concen: 1.024 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

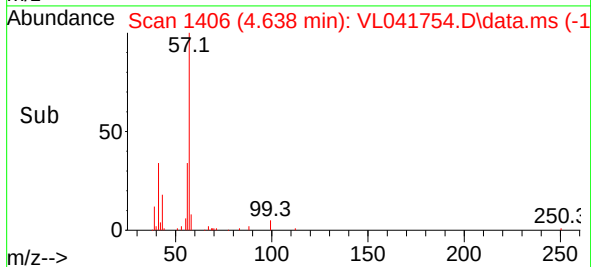
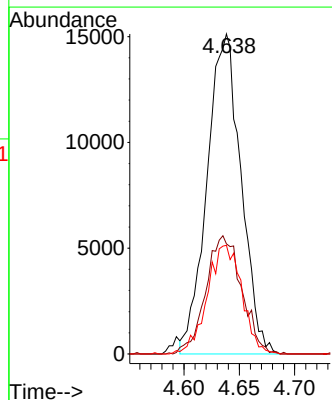
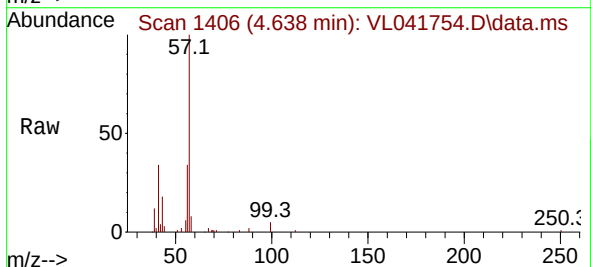
Tgt Ion: 57 Resp: 32361

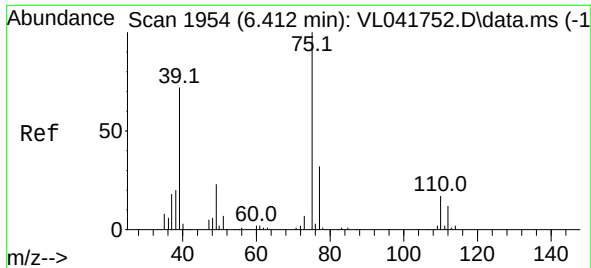
Ion Ratio Lower Upper

57 100

41 38.9 30.7 46.1

56 34.5 25.4 38.0

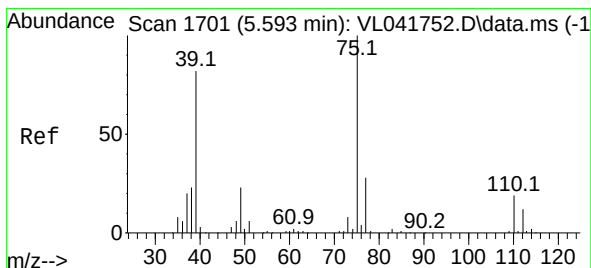
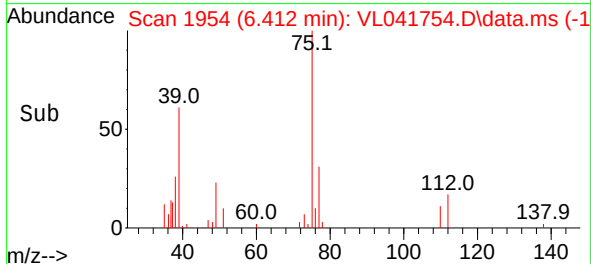
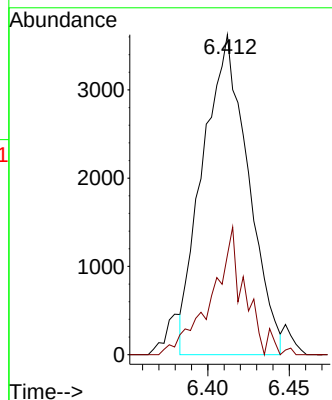
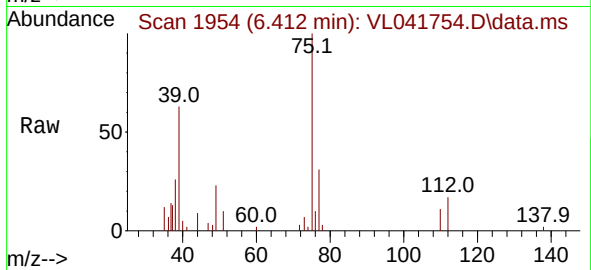




#45
 t-1,3-Dichloropropene
 Concen: 0.963 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

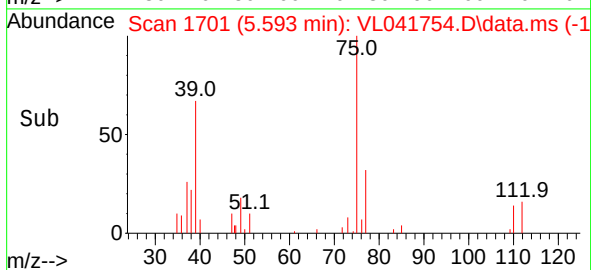
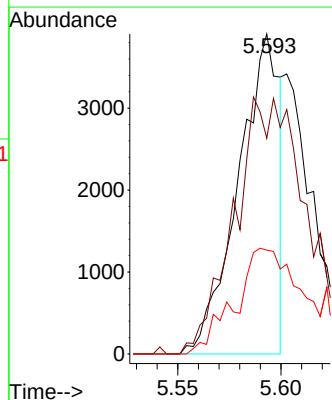
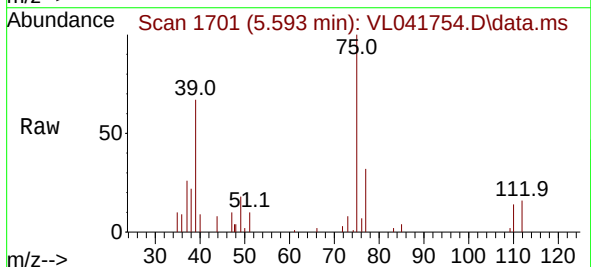
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

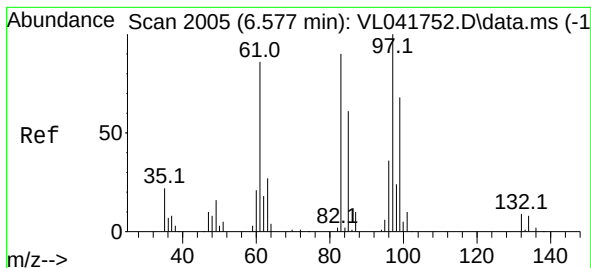
Tgt Ion: 75 Resp: 7027
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.9 38.9



#46
 cis-1,3-Dichloropropene
 Concen: 0.583 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 75 Resp: 5402
 Ion Ratio Lower Upper
 75 100
 39 67.4 65.2 97.8
 77 32.5 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 0.385 ppbv

RT: 6.571 min Scan# 2005

Delta R.T. -0.007 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 2694

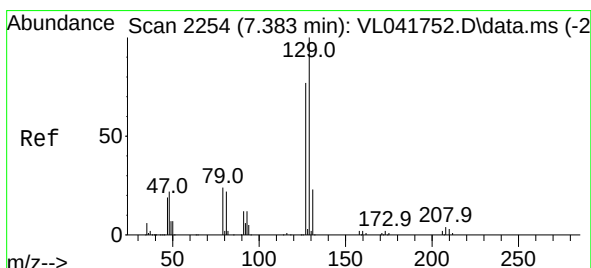
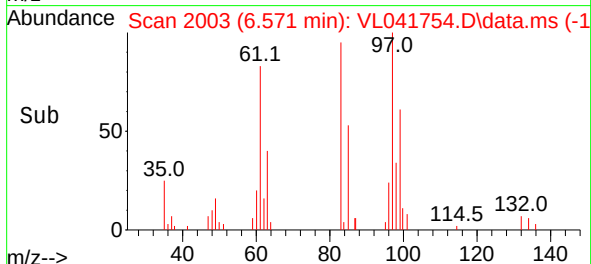
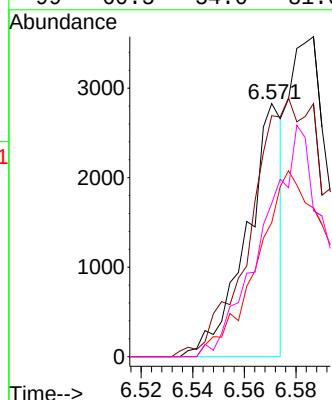
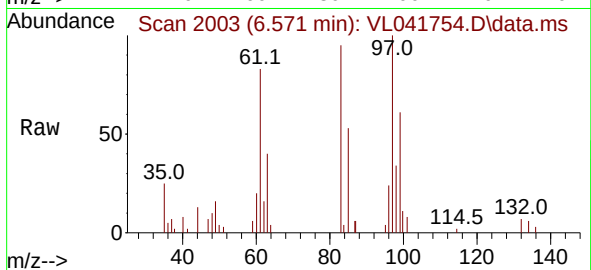
Ion Ratio Lower Upper

97 100

83 93.0 72.3 108.5

85 53.0 48.5 72.7

99 60.5 54.0 81.0



#48

Dibromochloromethane

Concen: 0.924 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. -0.000 min

Lab File: VL041754.D

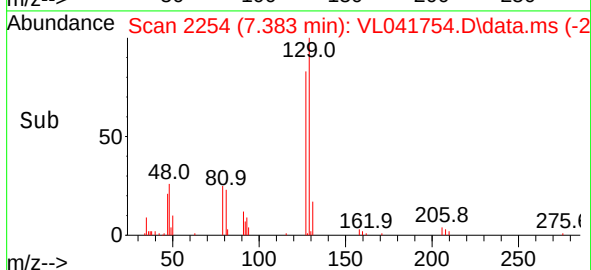
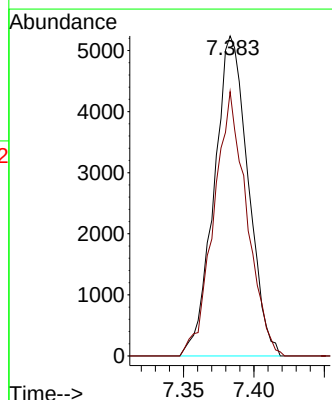
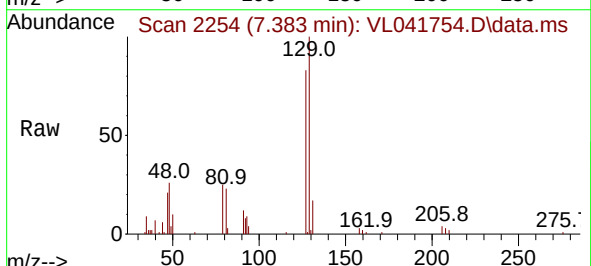
Acq: 16 Dec 2024 14:34

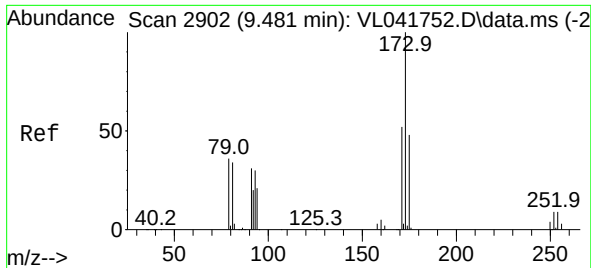
Tgt Ion: 129 Resp: 8817

Ion Ratio Lower Upper

129 100

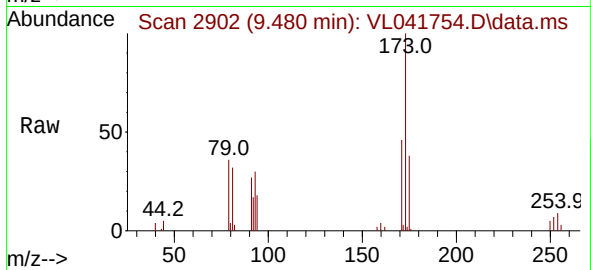
127 80.2 38.8 116.3



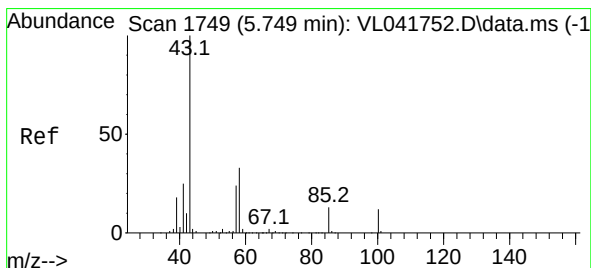
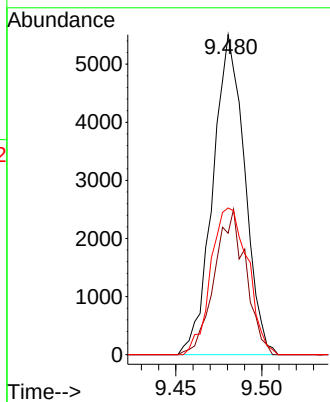
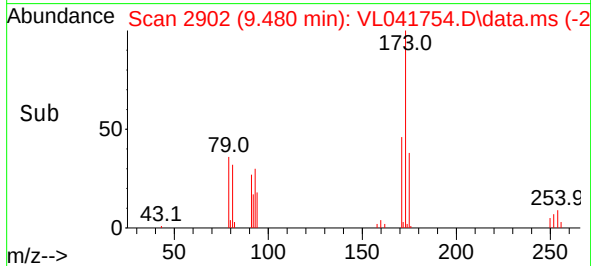


#49
Bromoform
Concen: 0.905 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

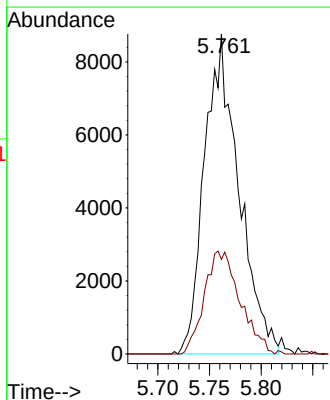
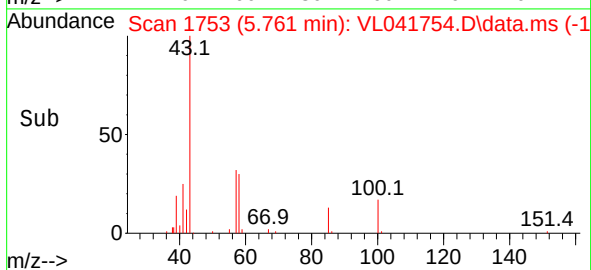
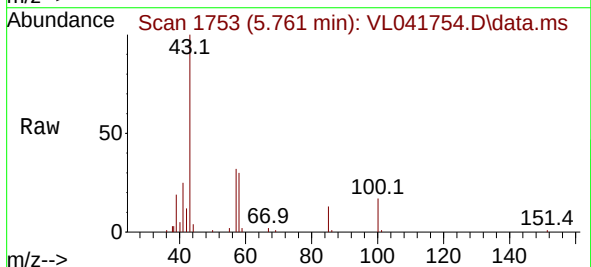


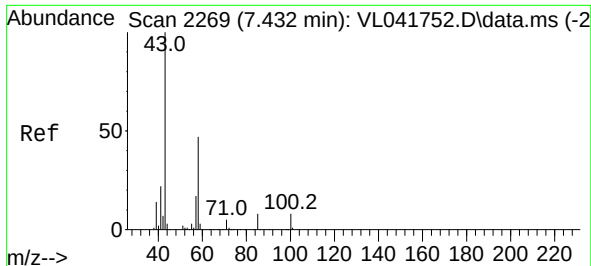
Tgt Ion:173 Resp: 7073
Ion Ratio Lower Upper
173 100
175 44.7 38.2 57.2
171 53.3 41.1 61.7



#50
4-Methyl-2-Pentanone
Concen: 1.031 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.013 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion: 43 Resp: 20212
Ion Ratio Lower Upper
43 100
58 33.7 26.8 40.2

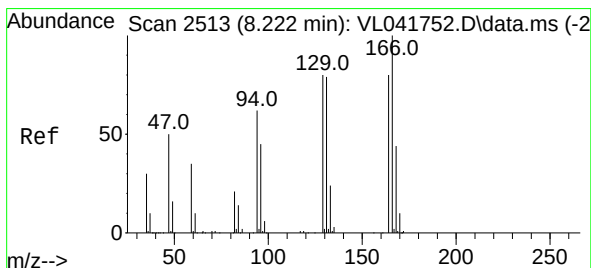
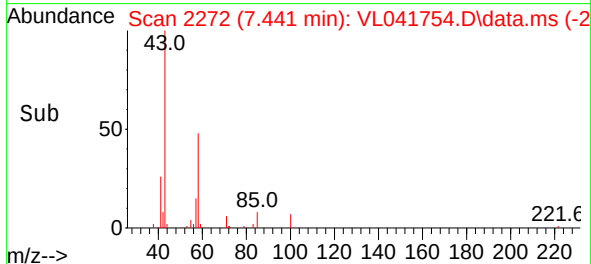
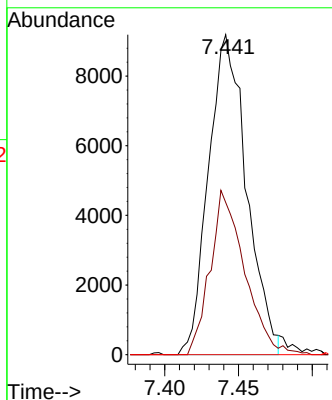
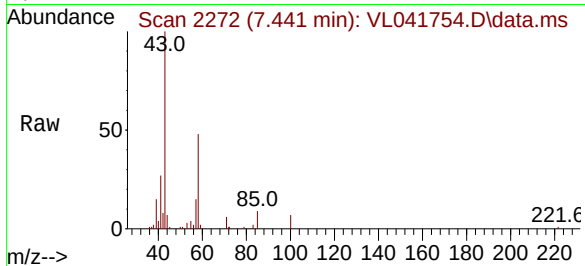




#51
 2-Hexanone
 Concen: 1.040 ppbv
 RT: 7.441 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

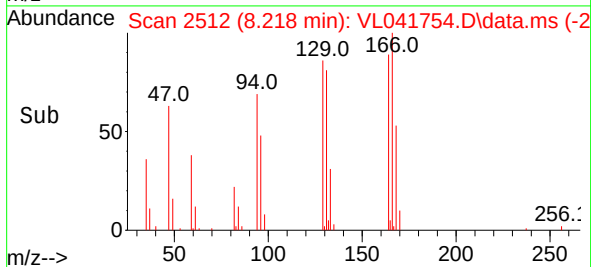
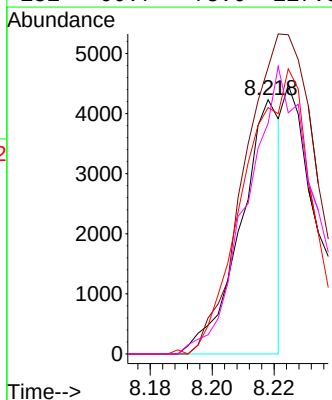
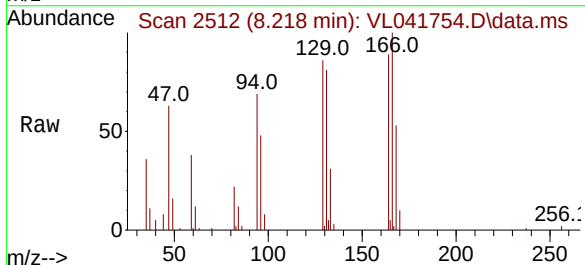
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

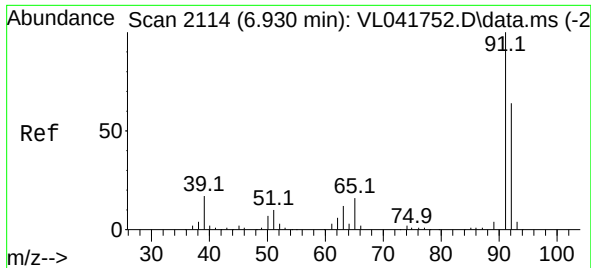
Tgt Ion: 43 Resp: 16514
 Ion Ratio Lower Upper
 43 100
 58 46.5 36.6 55.0
 98 0.2 0.1 0.1#



#52
 Tetrachloroethene
 Concen: 0.547 ppbv
 RT: 8.218 min Scan# 2512
 Delta R.T. -0.004 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

Tgt Ion: 164 Resp: 3765
 Ion Ratio Lower Upper
 164 100
 166 112.6 99.8 149.6
 129 95.3 79.6 119.4
 131 90.7 78.6 117.8





#53

Toluene

Concen: 1.029 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

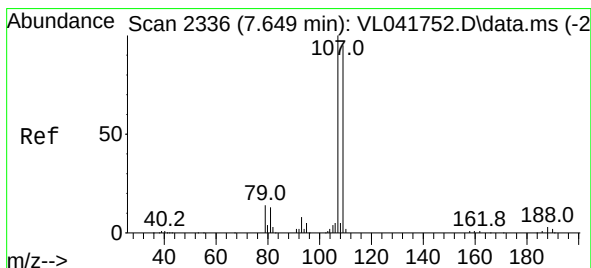
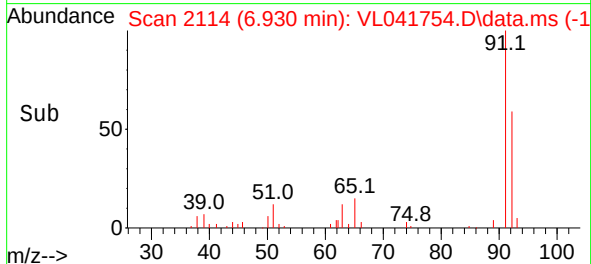
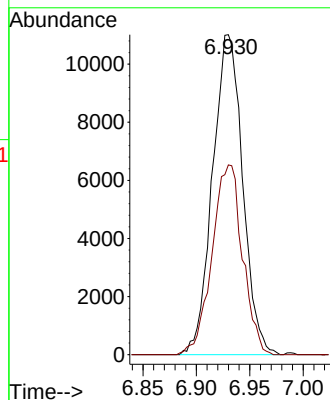
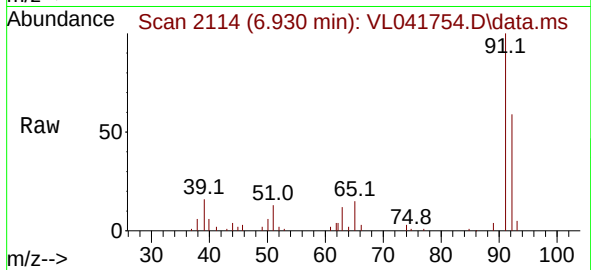
VSTDIC001

Tgt Ion: 91 Resp: 21594

Ion Ratio Lower Upper

91 100

92 60.0 47.9 71.9



#54

1,2-Dibromoethane

Concen: 1.013 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL041754.D

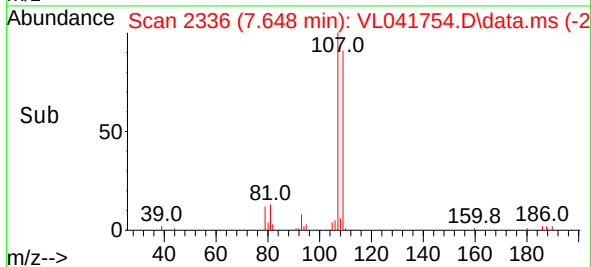
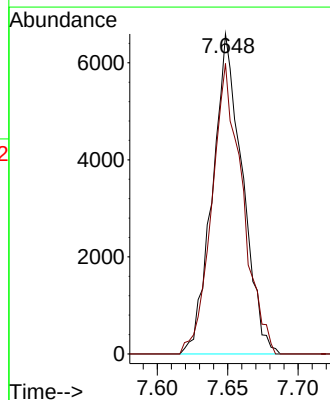
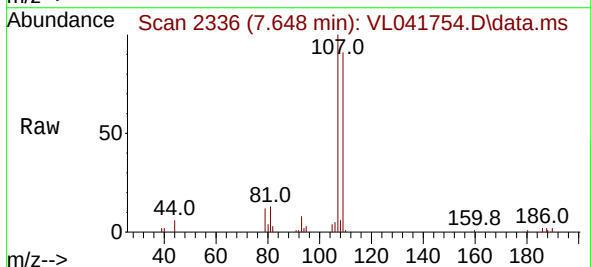
Acq: 16 Dec 2024 14:34

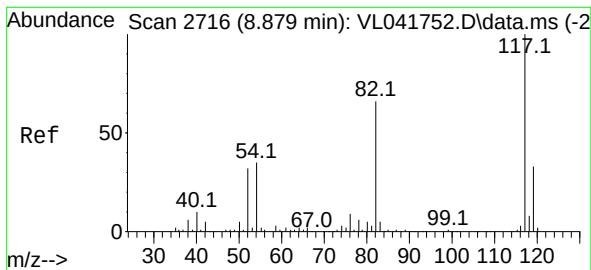
Tgt Ion: 107 Resp: 9758

Ion Ratio Lower Upper

107 100

109 90.8 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

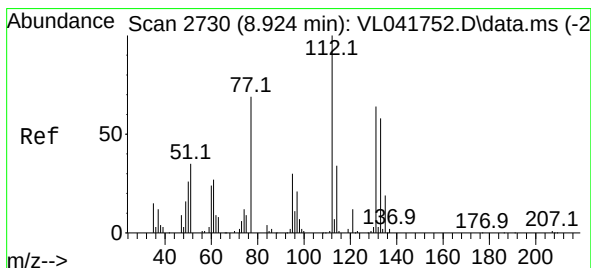
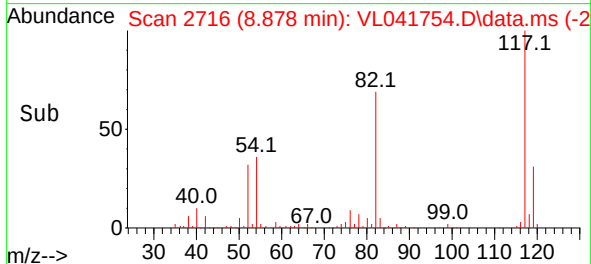
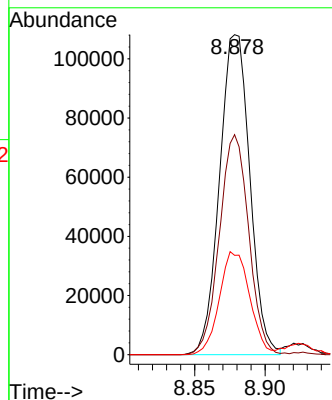
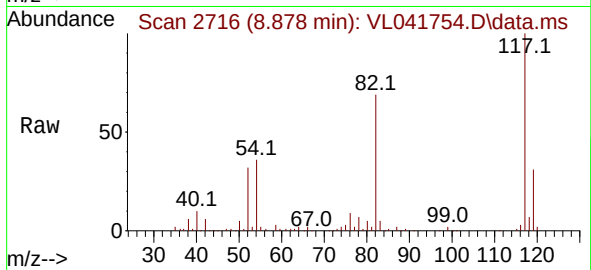
Tgt Ion:117 Resp: 162267

Ion Ratio Lower Upper

117 100

82 66.9 53.8 80.8

119 32.5 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 1.005 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

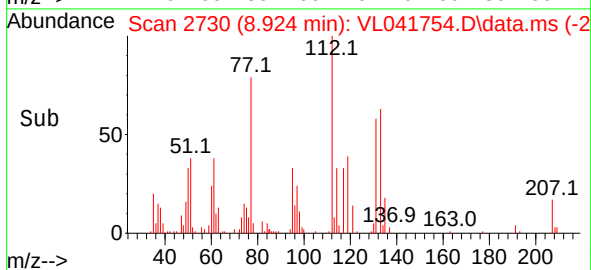
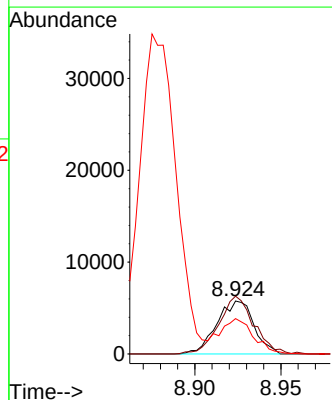
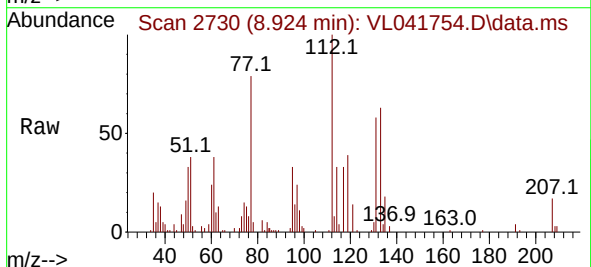
Tgt Ion:131 Resp: 8643

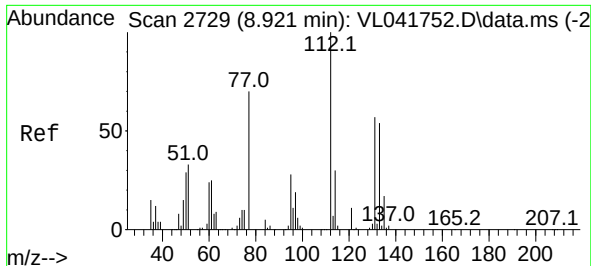
Ion Ratio Lower Upper

131 100

133 103.1 76.8 115.2

119 55.4 49.0 73.6





#57

Chlorobenzene

Concen: 1.054 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

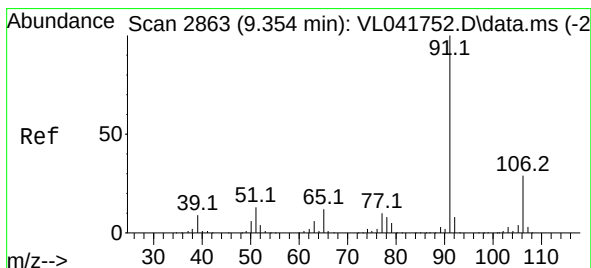
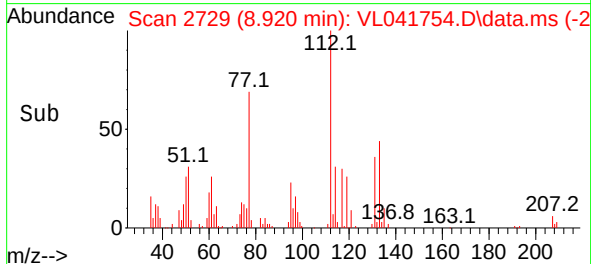
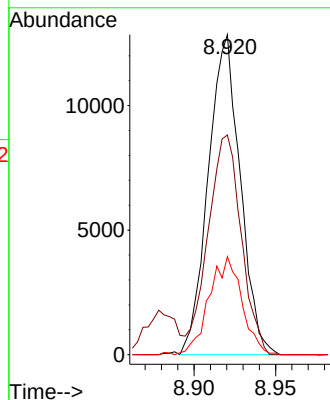
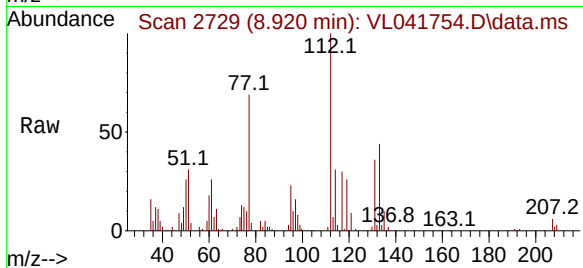
Tgt Ion:112 Resp: 17500

Ion Ratio Lower Upper

112 100

77 68.6 57.4 86.0

114 30.7 27.4 33.4



#58

Ethyl Benzene

Concen: 1.019 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.004 min

Lab File: VL041754.D

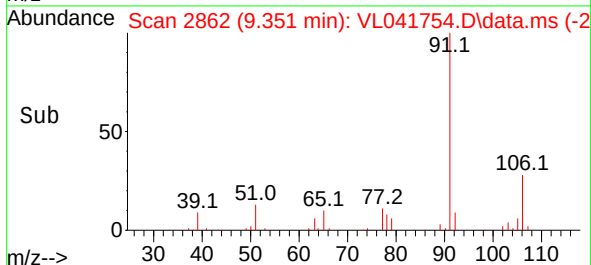
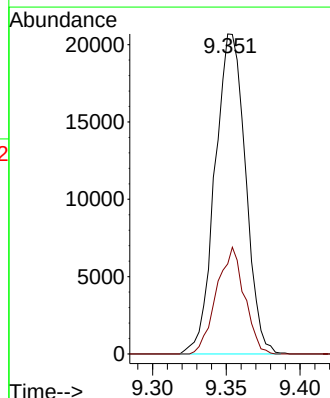
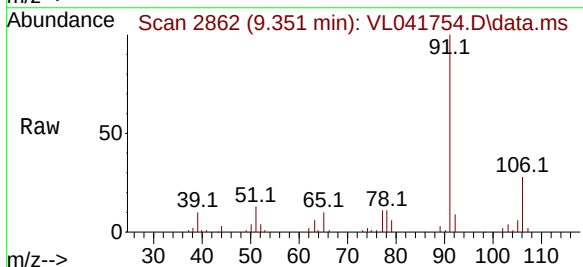
Acq: 16 Dec 2024 14:34

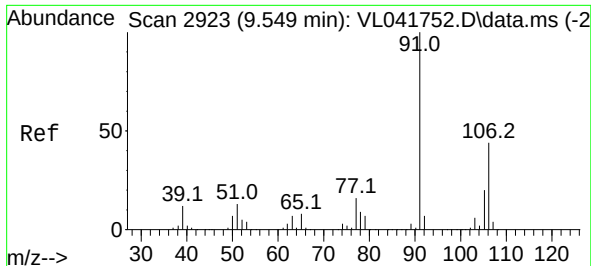
Tgt Ion: 91 Resp: 29762

Ion Ratio Lower Upper

91 100

106 28.1 23.5 35.3





#59

m/p-Xylene

Concen: 0.692 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

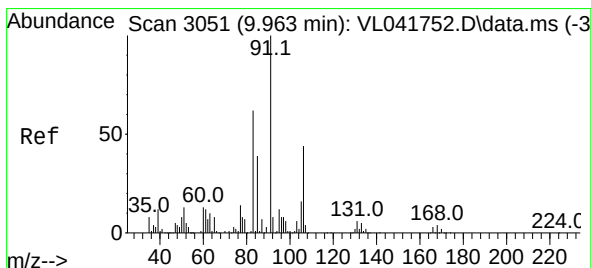
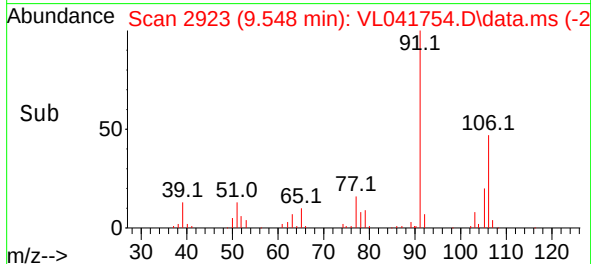
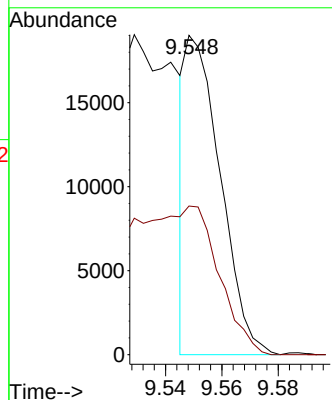
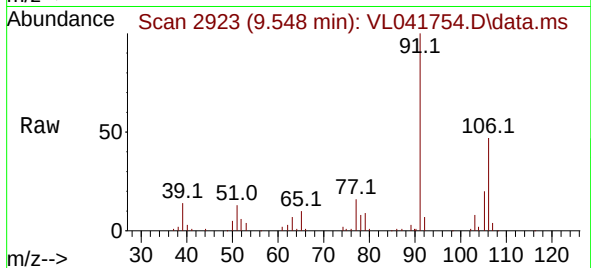
VSTDIC001

Tgt Ion: 91 Resp: 16252

Ion Ratio Lower Upper

91 100

106 133.5 0.0 0.0#



#60

o-Xylene

Concen: 1.028 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041754.D

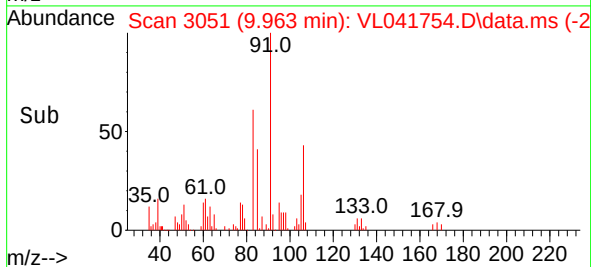
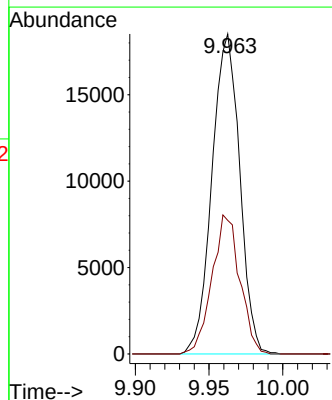
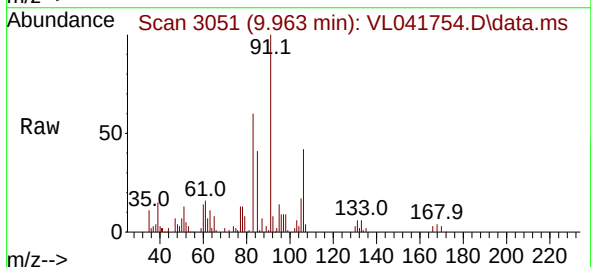
Acq: 16 Dec 2024 14:34

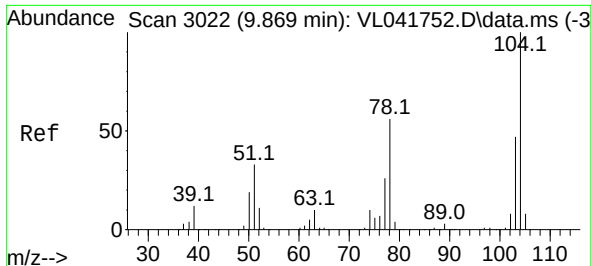
Tgt Ion: 91 Resp: 24210

Ion Ratio Lower Upper

91 100

106 43.6 21.1 63.4

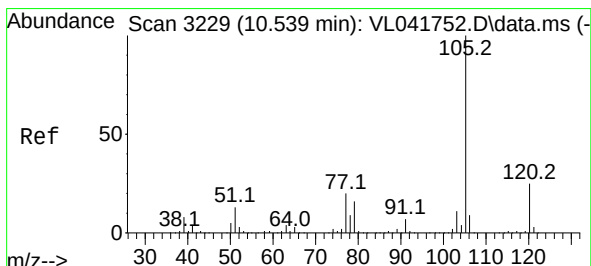
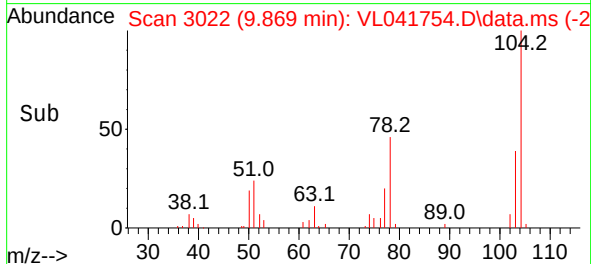
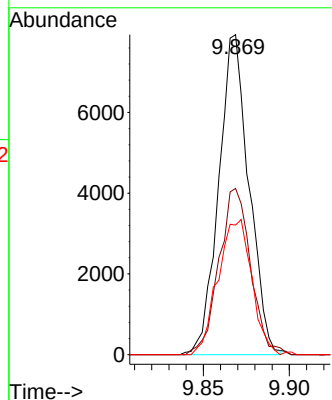
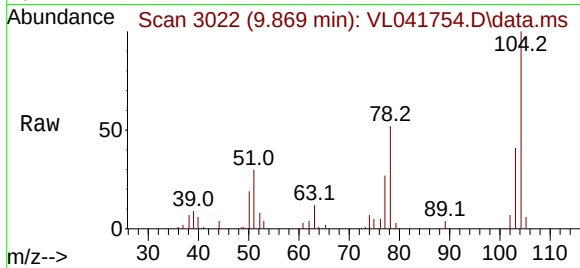




#61
Styrene
Concen: 0.953 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

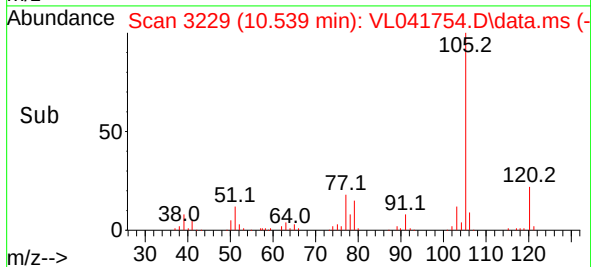
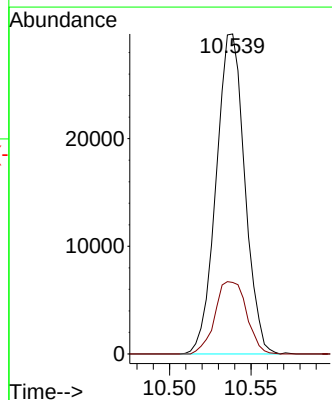
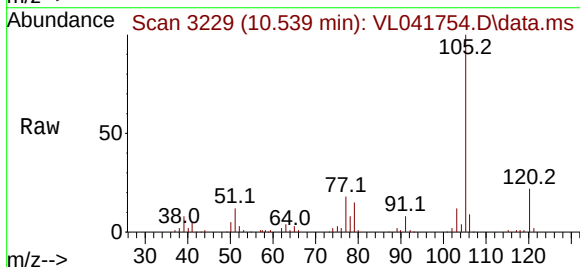
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

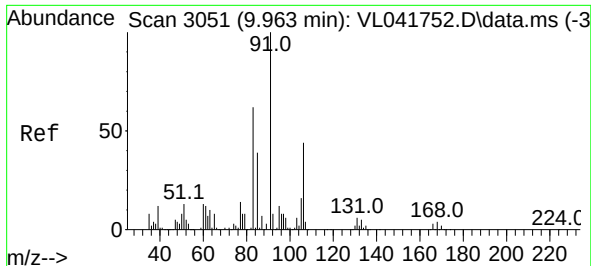
Tgt Ion:104 Resp: 9707
Ion Ratio Lower Upper
104 100
78 54.3 43.8 65.6
103 47.2 37.8 56.6



#62
Isopropylbenzene
Concen: 1.024 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:105 Resp: 36251
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.001 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC001

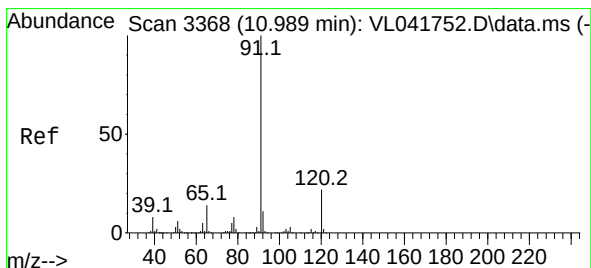
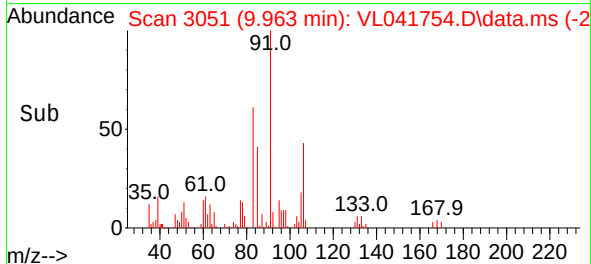
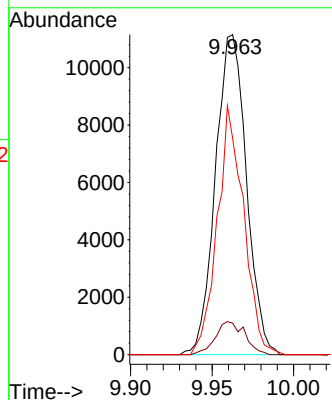
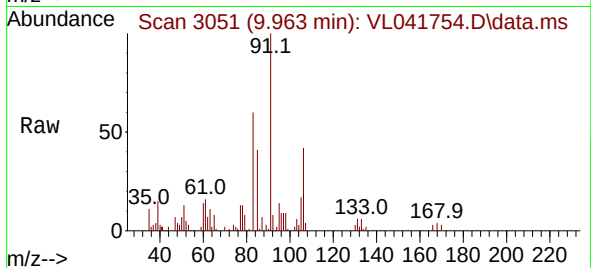
Tgt Ion: 83 Resp: 14752

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

85 66.2 32.0 96.2



#64

n-propylbenzene

Concen: 1.054 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.004 min

Lab File: VL041754.D

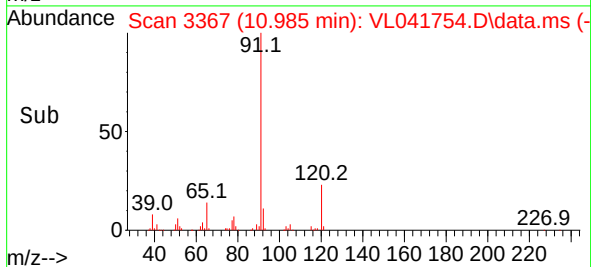
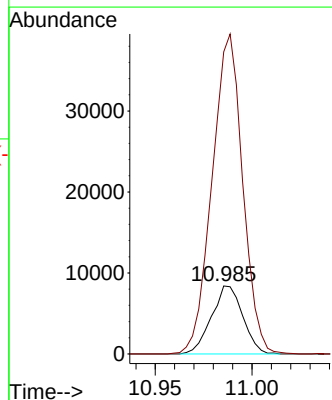
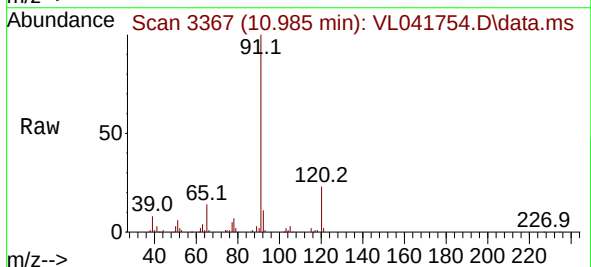
Acq: 16 Dec 2024 14:34

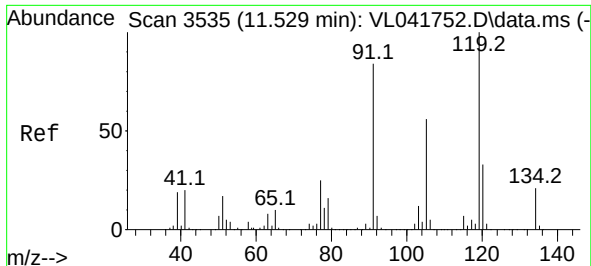
Tgt Ion: 120 Resp: 9432

Ion Ratio Lower Upper

120 100

91 461.0 387.3 580.9





#65

tert-Butylbenzene

Concen: 1.030 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

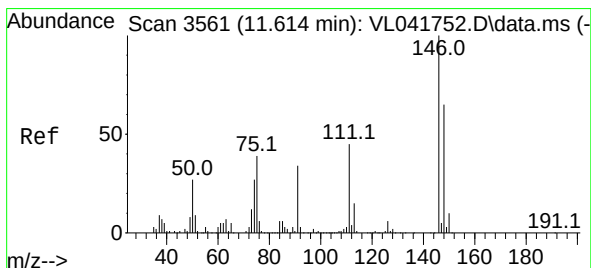
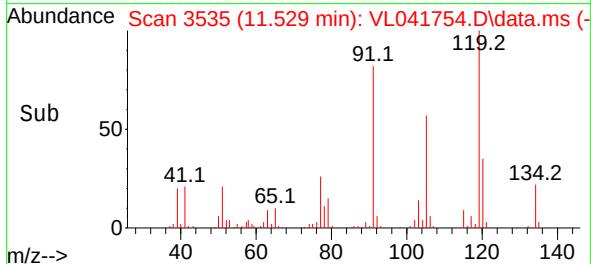
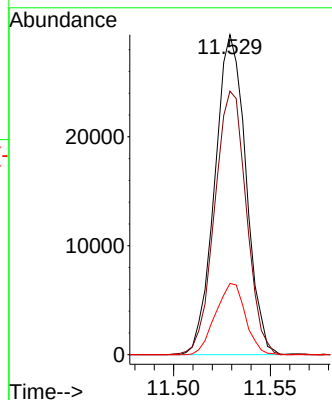
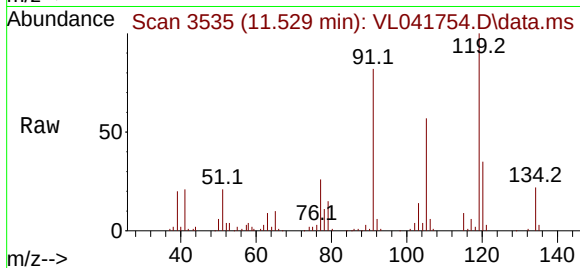
Tgt Ion:119 Resp: 32887

Ion Ratio Lower Upper

119 100

91 83.8 67.0 100.4

134 21.3 16.5 24.7



#66

Benzyl Chloride

Concen: 0.894 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

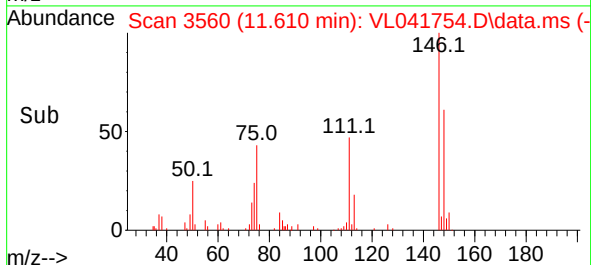
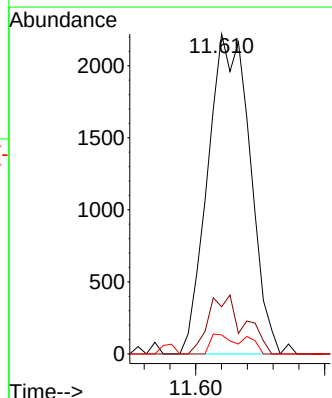
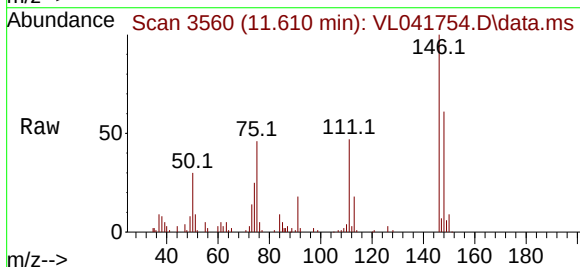
Tgt Ion: 91 Resp: 2518

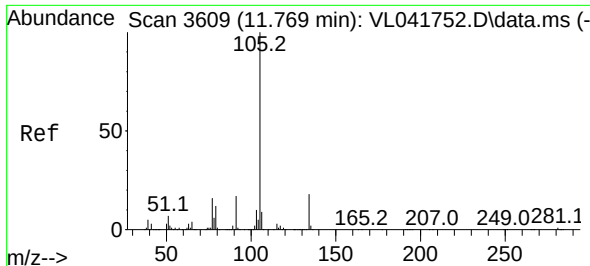
Ion Ratio Lower Upper

91 100

126 15.6 13.9 20.9

128 5.9 4.4 6.6





#67

sec-Butylbenzene

Concen: 1.019 ppbv

RT: 11.765 min Scan# 3608

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

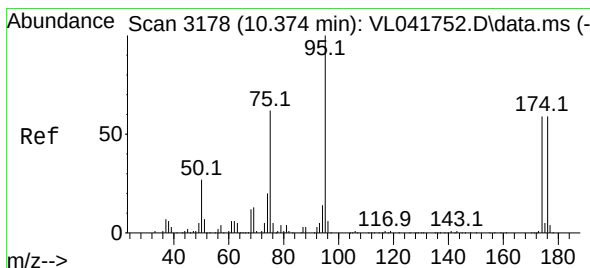
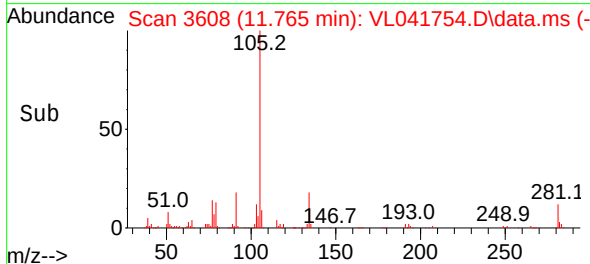
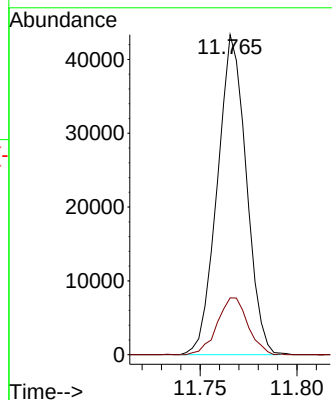
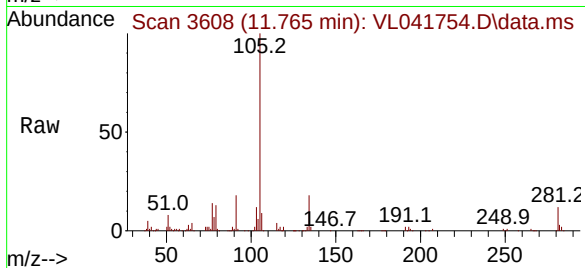
VSTDIC001

Tgt Ion:105 Resp: 45015

Ion Ratio Lower Upper

105 100

134 18.8 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 9.825 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

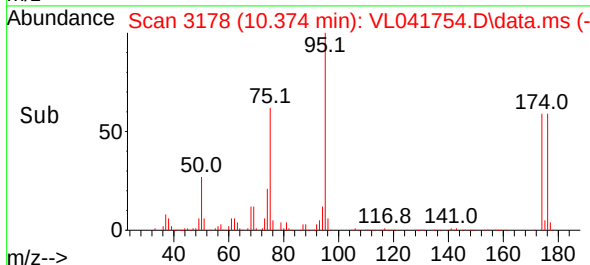
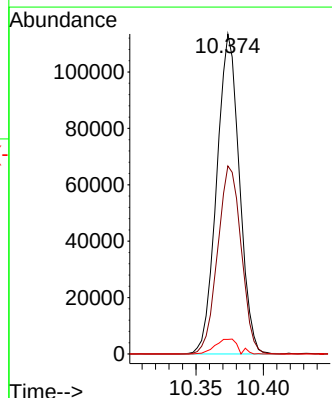
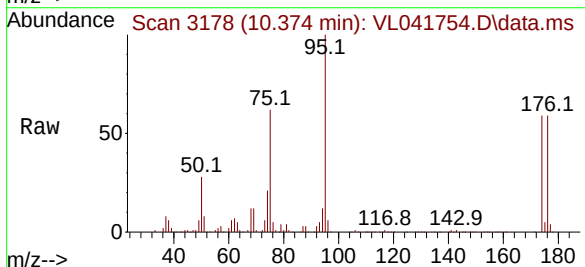
Tgt Ion: 95 Resp: 132857

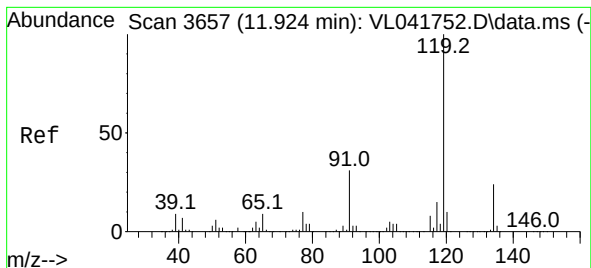
Ion Ratio Lower Upper

95 100

174 61.0 47.6 71.4

175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.997 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

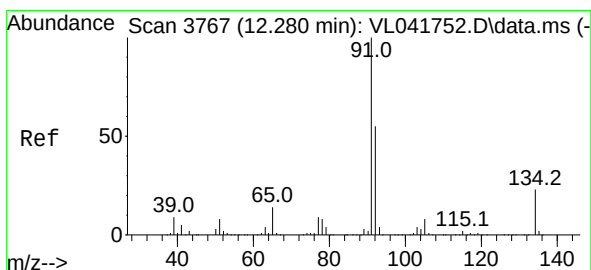
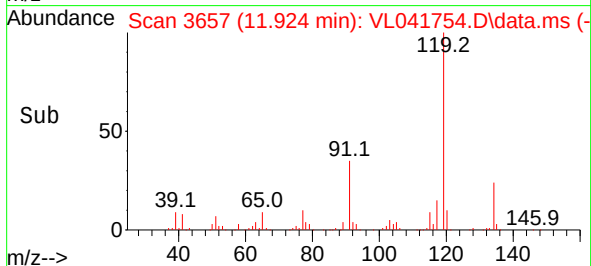
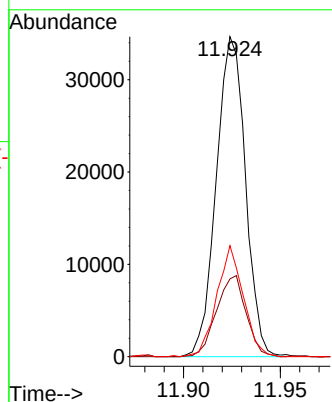
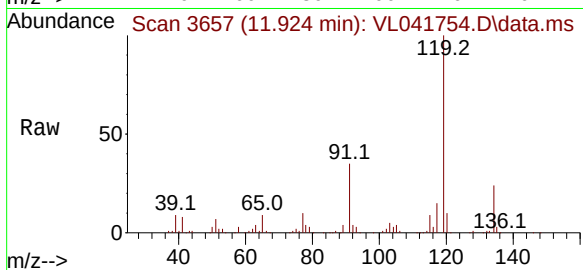
Tgt Ion:119 Resp: 36298

Ion Ratio Lower Upper

119 100

134 25.8 19.6 29.4

91 31.8 24.4 36.6



#70

n-Butylbenzene

Concen: 1.007 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

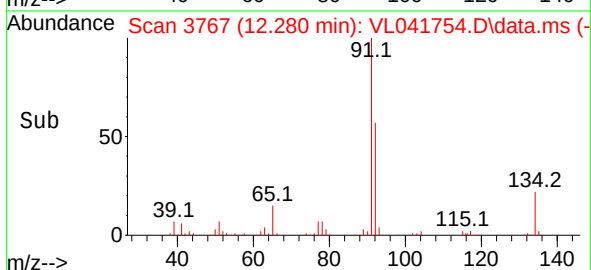
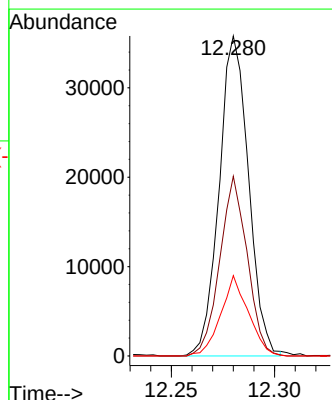
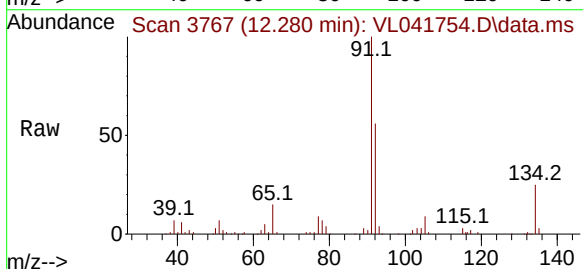
Tgt Ion: 91 Resp: 35432

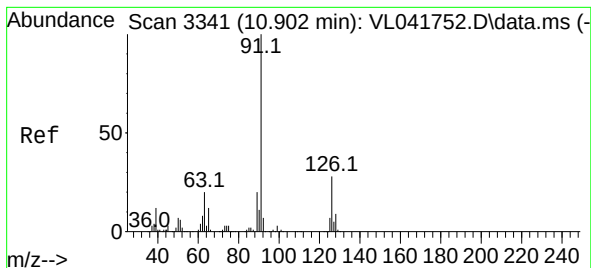
Ion Ratio Lower Upper

91 100

92 52.4 43.2 64.8

134 23.6 18.2 27.4





#71

2-Chlorotoluene

Concen: 1.020 ppbv

RT: 10.901 min Scan# 3341

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

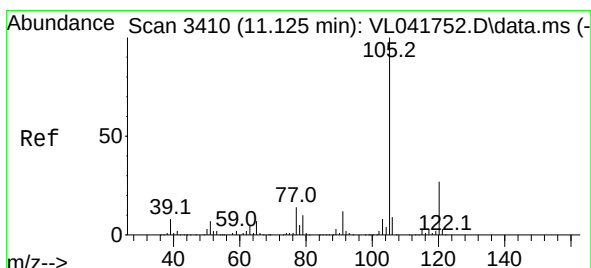
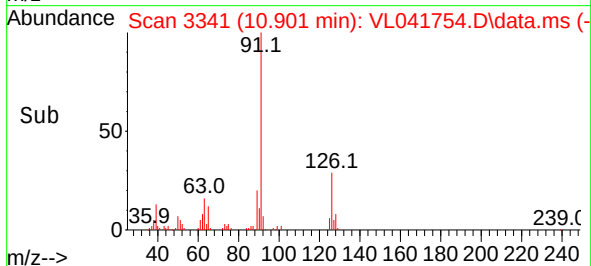
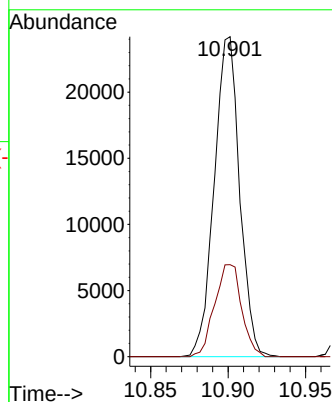
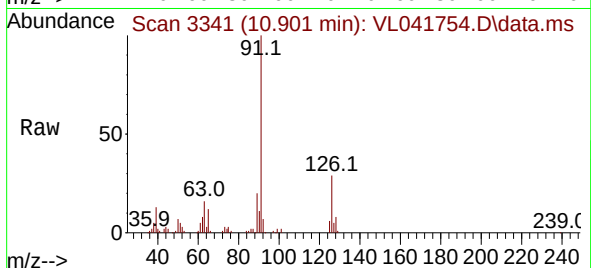
VSTDIC001

Tgt Ion: 91 Resp: 27561

Ion Ratio Lower Upper

91 100

126 30.5 11.6 46.4



#72

4-Ethyltoluene

Concen: 0.970 ppbv

RT: 11.125 min Scan# 3410

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:105 Resp: 26921

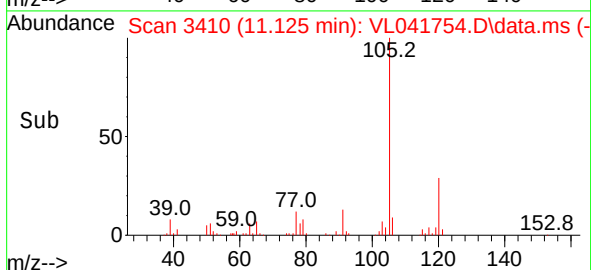
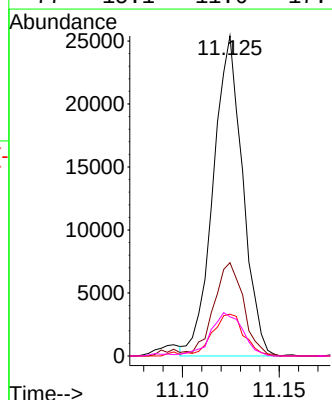
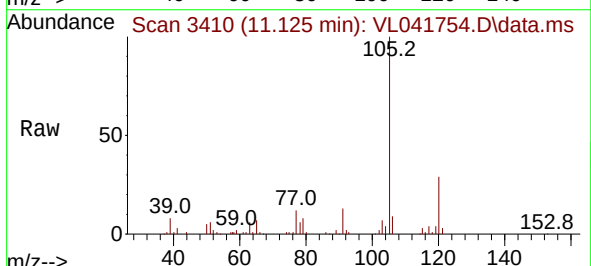
Ion Ratio Lower Upper

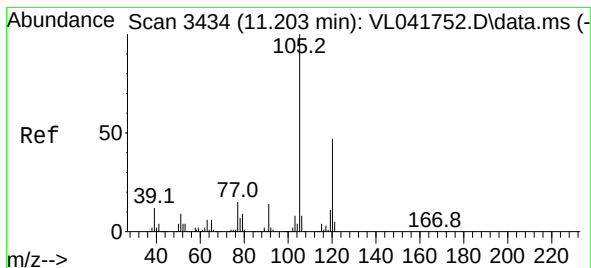
105 100

120 30.7 23.3 34.9

91 14.5 10.9 16.3

77 15.1 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.969 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

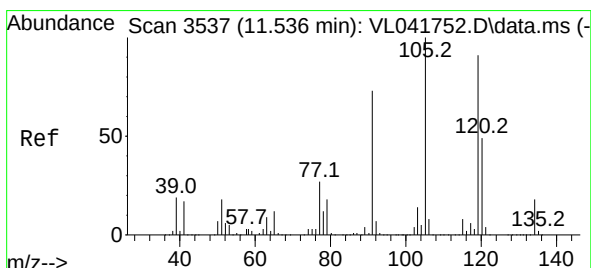
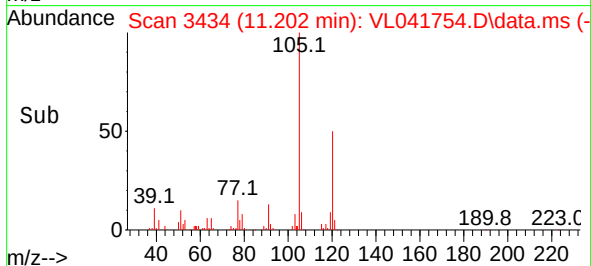
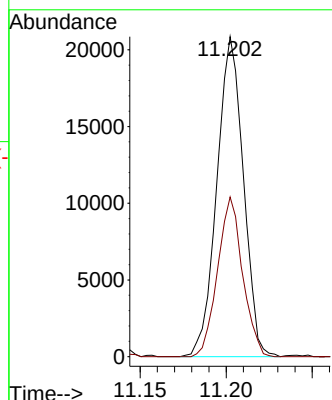
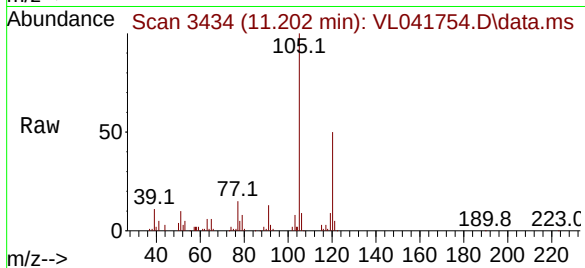
VSTDIC001

Tgt Ion:105 Resp: 22360

Ion Ratio Lower Upper

105 100

120 49.9 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 0.994 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion:105 Resp: 24654

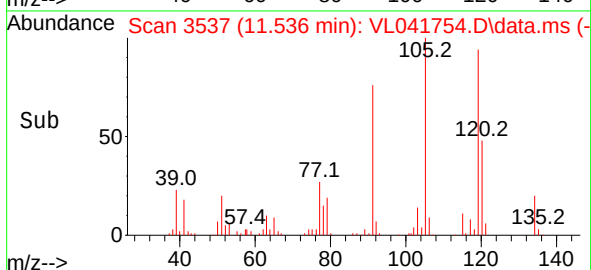
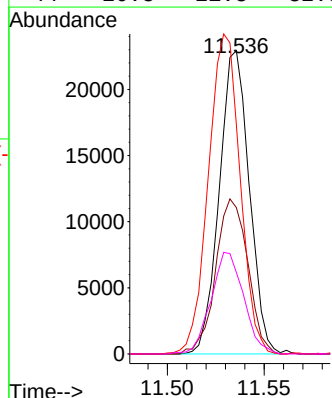
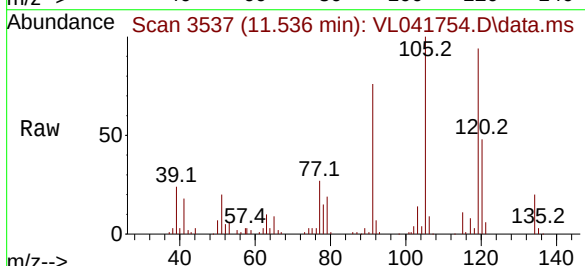
Ion Ratio Lower Upper

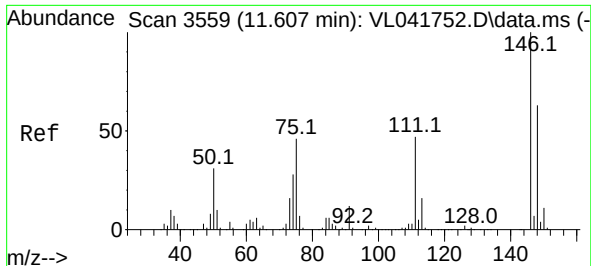
105 100

120 48.3 39.0 58.4

91 75.5 58.1 87.1

77 26.8 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 1.042 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

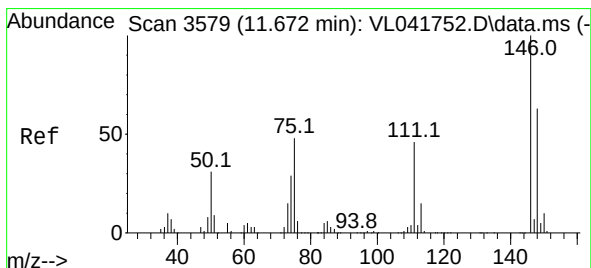
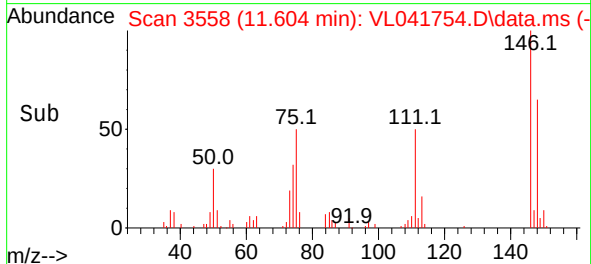
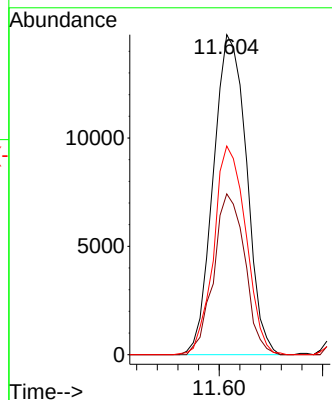
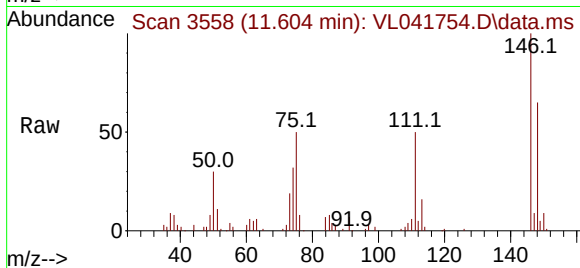
Tgt Ion:146 Resp: 16476

Ion Ratio Lower Upper

146 100

111 47.3 23.4 70.3

148 63.1 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 1.010 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

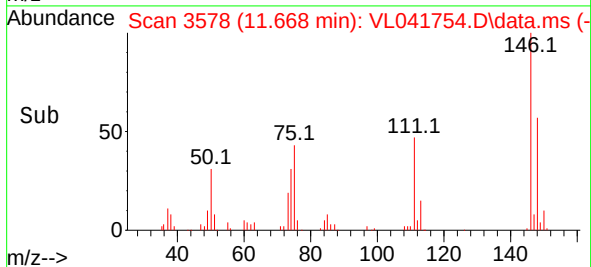
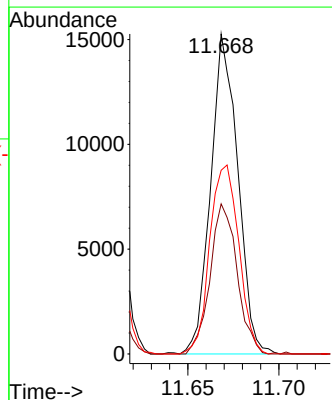
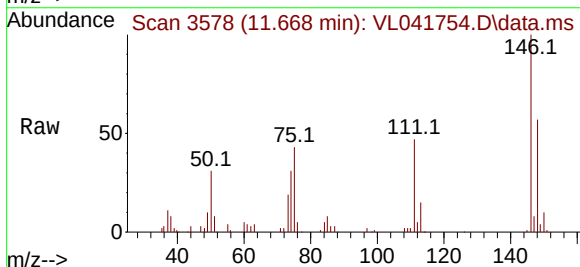
Tgt Ion:146 Resp: 15774

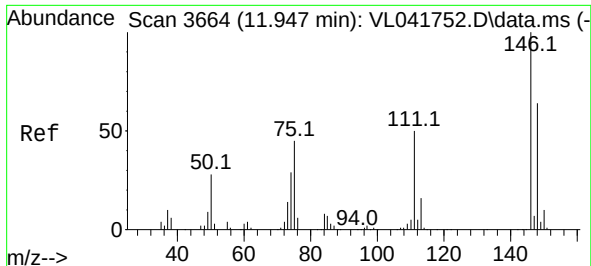
Ion Ratio Lower Upper

146 100

111 47.0 22.7 68.1

148 63.4 31.4 94.0

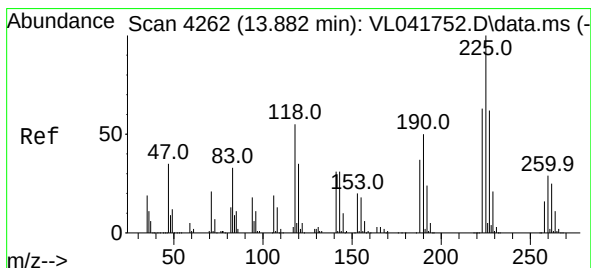
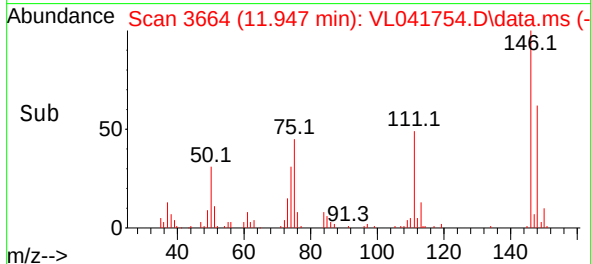
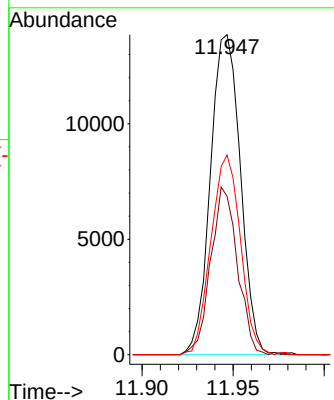
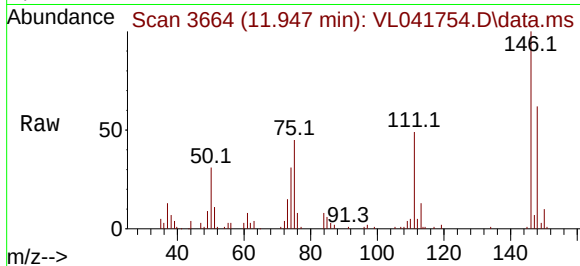




#77
1,2-Dichlorobenzene
Concen: 1.043 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

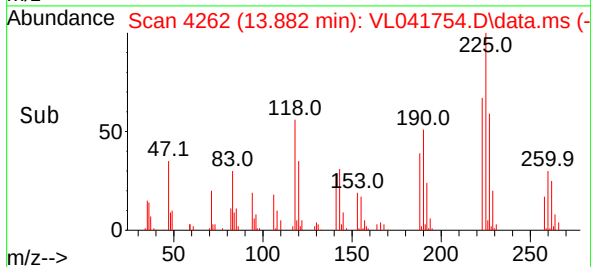
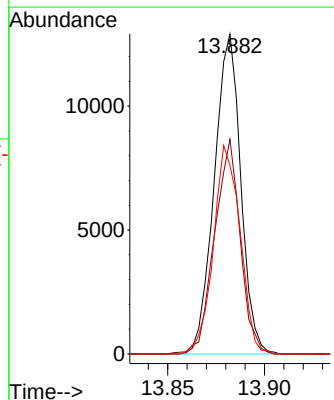
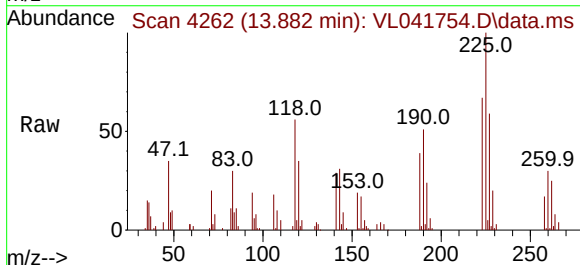
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

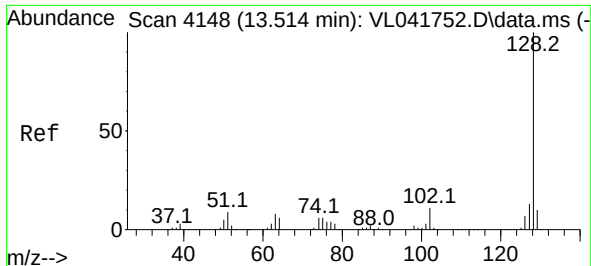
Tgt Ion:146 Resp: 15866
Ion Ratio Lower Upper
146 100
111 47.0 24.8 74.3
148 61.6 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 1.087 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Tgt Ion:225 Resp: 12266
Ion Ratio Lower Upper
225 100
223 65.0 50.5 75.7
227 65.7 50.3 75.5





#79

Naphthalene

Concen: 0.982 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

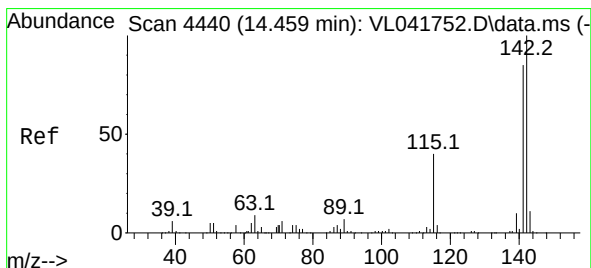
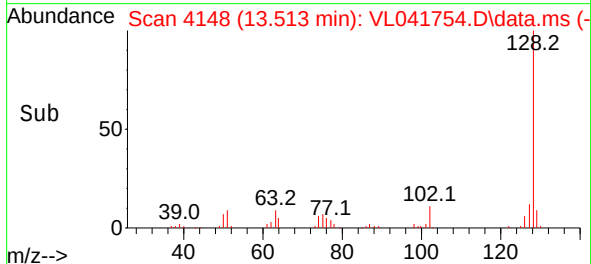
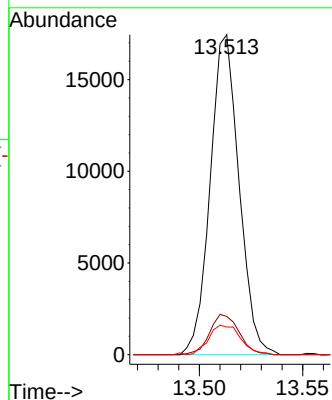
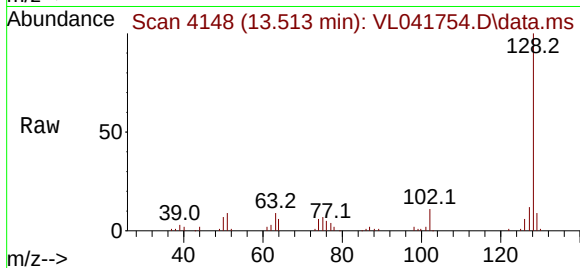
Tgt Ion:128 Resp: 16971

Ion Ratio Lower Upper

128 100

127 12.0 10.7 16.1

129 8.7 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 0.281 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

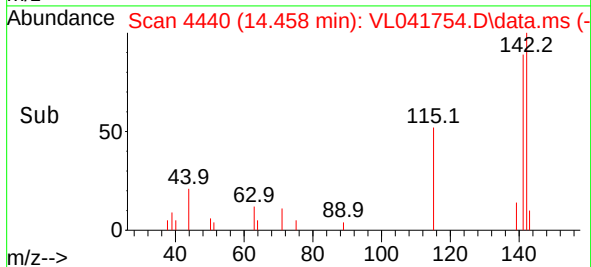
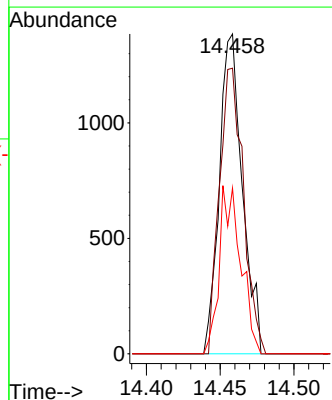
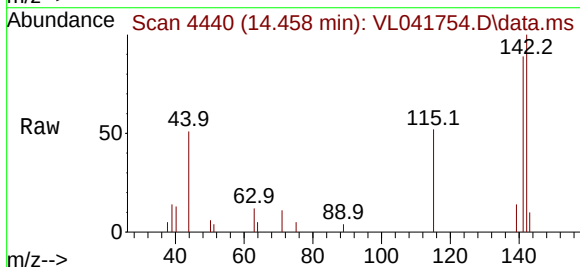
Tgt Ion:142 Resp: 1504

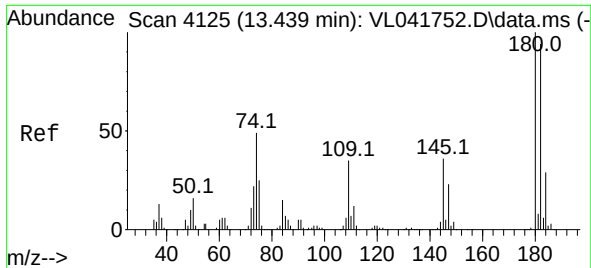
Ion Ratio Lower Upper

142 100

141 92.8 68.4 102.6

115 48.9 32.5 48.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.950 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041754.D

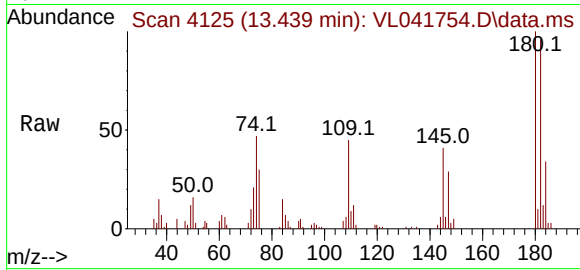
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



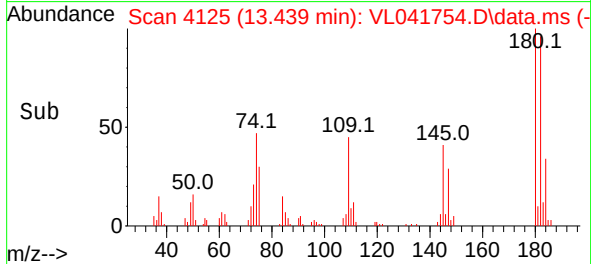
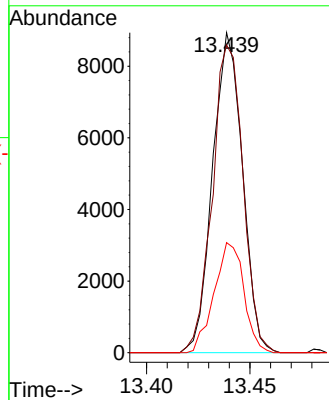
Tgt Ion:180 Resp: 8973

Ion Ratio Lower Upper

180 100

182 99.0 77.0 115.6

184 34.2 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	66562	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	178453	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	158571	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	132273	10.010	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	6277	0.530	ppbv	94
3) Chlorodifluoromethane	1.476	51	5587	0.515	ppbv	95
4) Chloromethane	1.531	50	2452	0.529	ppbv	90
5) Vinyl Chloride	1.580	62	2269	0.486	ppbv	97
6) Bromomethane	1.667	94	1143	0.519	ppbv #	78
7) Chloroethane	1.703	64	939	0.518	ppbv	88
8) Dichlorotetrafluoroethane	1.554	85	5699	0.538	ppbv	97
9) Propene	1.483	41	2622	0.557	ppbv #	82
10) Heptane	4.978	43	5865	0.485	ppbv	98
11) Trichlorofluoromethane	1.878	101	6594	0.524	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	4962	0.519	ppbv	96
13) Ethanol	1.719	45	378	0.966	ppbv	96
14) Bromoethene	1.781	108	1694	0.524	ppbv #	93
15) Acetone	1.836	43	8233	0.636	ppbv	97
16) 1,3-Butadiene	1.609	39	2966	0.582	ppbv	88
17) tert-Butyl alcohol	2.043	59	6654	0.518	ppbv #	91
18) 1,1-Dichloroethene	2.033	96	2022	0.504	ppbv	96
19) Isopropyl Alcohol	1.884	45	5687	0.732	ppbv #	39
20) Methylene Chloride	2.062	84	2174	0.589	ppbv #	91
21) Allyl Chloride	2.098	41	3354	0.478	ppbv	86
22) trans-1,2-Dichloroethene	2.341	96	2494	0.543	ppbv	83
23) Vinyl Acetate	2.464	43	2599	0.462	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	4854	0.522	ppbv #	97
25) Ethyl Acetate	2.839	43	12040	0.497	ppbv #	97
26) Hexane	2.829	57	4735	0.518	ppbv	96
27) Carbon Disulfide	2.153	76	3409	0.414	ppbv #	37
28) Methyl tert-Butyl Ether	2.441	73	3438	0.464	ppbv	99
29) Chloroform	2.849	83	7172	0.515	ppbv	98
30) Cyclohexane	3.859	84	4051	0.521	ppbv	96
31) cis-1,2-Dichloroethene	2.723	61	4758	0.504	ppbv	91
32) 1,1,1-Trichloroethane	3.367	97	7182	0.518	ppbv	99
34) 2-Butanone	2.557	43	7756	0.540	ppbv	94
35) Carbon Tetrachloride	3.765	117	5655	0.446	ppbv	90
36) Benzene	3.658	78	9629	0.522	ppbv	97
37) 1,2-Dichloroethane	3.218	62	6154	0.536	ppbv	99
38) Trichloroethene	4.551	130	2613	0.336	ppbv #	88
39) 1,2-Dichloropropane	4.318	63	2224	0.333	ppbv #	84
40) 1,4-Dioxane	4.597	88	229	0.070	ppbv #	20
41) Tetrahydrofuran	3.066	42	4061	0.505	ppbv	99
42) Bromodichloromethane	4.490	83	3315	0.251	ppbv #	95
43) Methyl Methacrylate	4.881	69	3322	0.472	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	9729	0.309	ppbv #	39
45) t-1,3-Dichloropropene	6.438	75	279	0.038	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

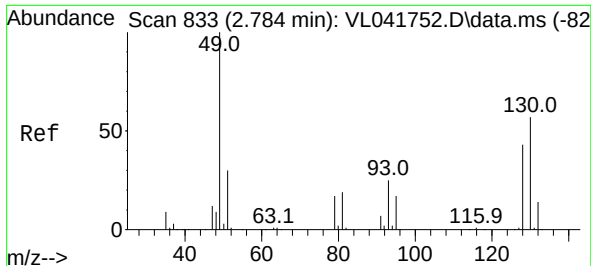
Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.597	75	1656	0.179	ppbv #	81
47) 1,1,2-Trichloroethane	6.587	97	2388	0.342	ppbv #	84
48) Dibromochloromethane	7.387	129	3865	0.406	ppbv	99
49) Bromoform	9.484	173	2869	0.368	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	4771	0.244	ppbv #	41
51) 2-Hexanone	7.451	43	7412	0.468	ppbv #	99
52) Tetrachloroethene	8.225	164	3091	0.450	ppbv #	78
53) Toluene	6.933	91	10554	0.504	ppbv	99
54) 1,2-Dibromoethane	7.652	107	2762	0.287	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.930	131	1785	0.212	ppbv #	1
57) Chlorobenzene	8.927	112	4266	0.263	ppbv	95
58) Ethyl Benzene	9.358	91	13428	0.470	ppbv	97
59) m/p-Xylene	9.552	91	10592	0.461	ppbv #	100
60) o-Xylene	9.963	91	10954	0.476	ppbv	98
61) Styrene	9.869	104	4314	0.433	ppbv	94
62) Isopropylbenzene	10.542	105	16953	0.490	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.966	83	7559	0.525	ppbv	98
64) n-propylbenzene	10.989	120	4126	0.472	ppbv	92
65) tert-Butylbenzene	11.529	119	15569	0.499	ppbv	99
66) Benzyl Chloride	11.620	91	580	0.211	ppbv #	76
67) sec-Butylbenzene	11.769	105	21263	0.492	ppbv	96
69) p-Isopropyltoluene	11.928	119	17041	0.479	ppbv	99
70) n-Butylbenzene	12.284	91	15671	0.456	ppbv	99
71) 2-Chlorotoluene	10.902	91	13000	0.492	ppbv	97
72) 4-Ethyltoluene	11.128	105	13324	0.491	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	10497	0.466	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	11070	0.457	ppbv #	76
75) 1,3-Dichlorobenzene	11.604	146	8107	0.525	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	7893	0.517	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	7997	0.538	ppbv	96
78) Hexachloro-1,3-Butadiene	13.882	225	6232	0.565	ppbv	98
79) Naphthalene	13.517	128	7360	0.436	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	748	0.143	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	4248	0.460	ppbv	93

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

Quant Time: Dec 19 06:14:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

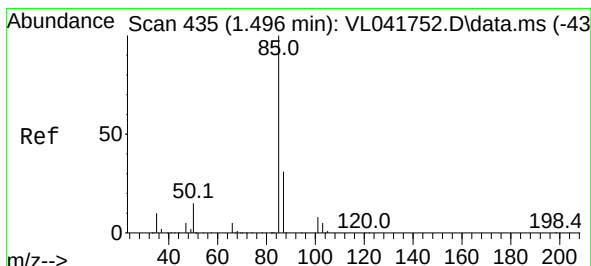
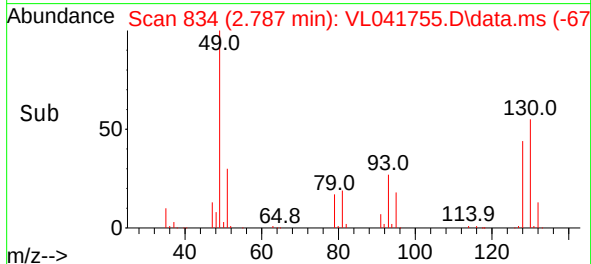
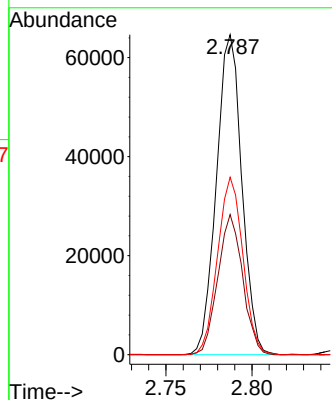
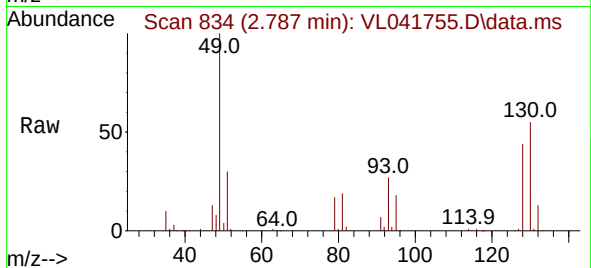




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

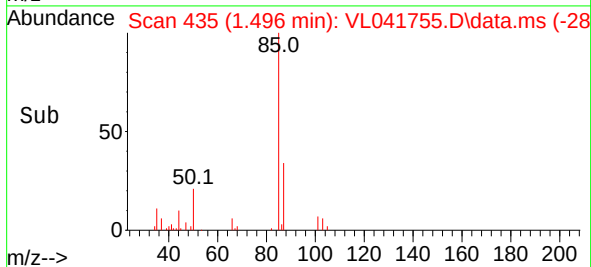
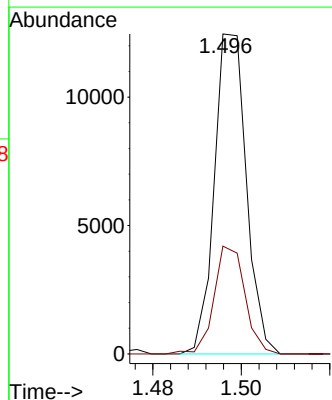
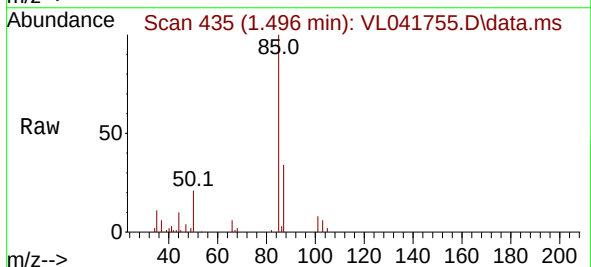
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

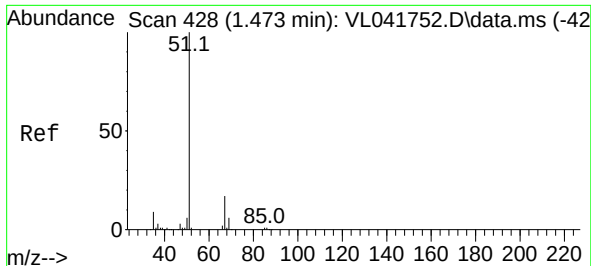
Tgt Ion: 49 Resp: 66562
Ion Ratio Lower Upper
49 100
128 42.6 21.6 64.6
130 55.1 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 85 Resp: 6277
Ion Ratio Lower Upper
85 100
87 33.7 24.5 36.7

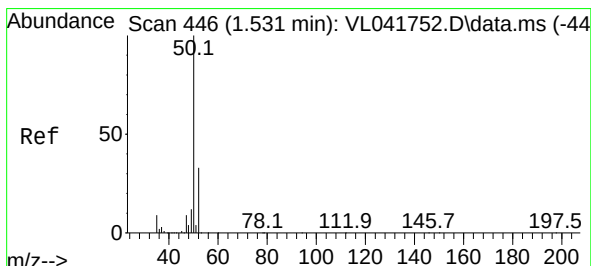
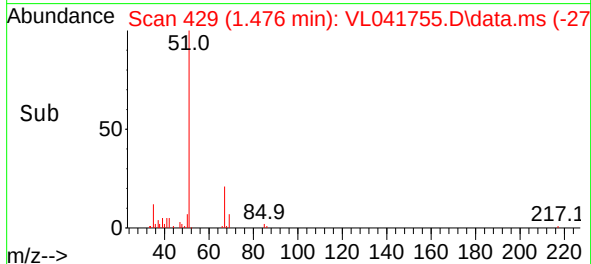
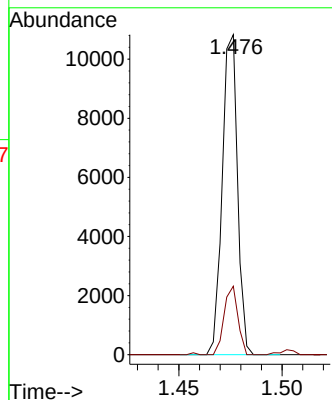
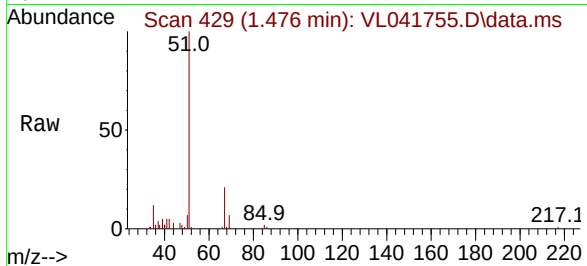




#3
Chlorodifluoromethane
Concen: 0.515 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

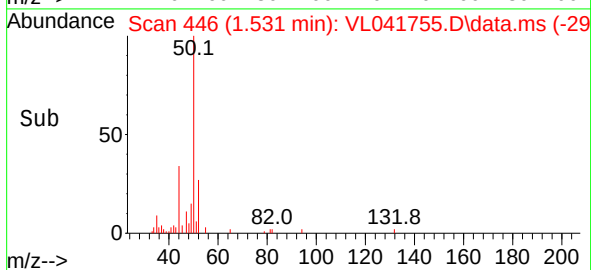
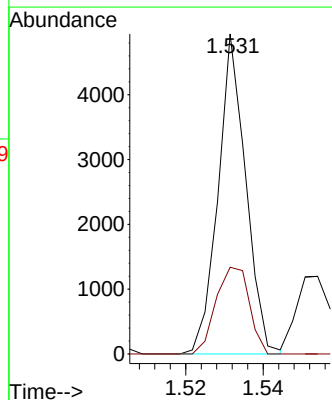
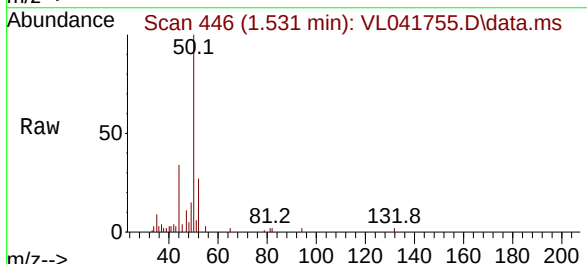
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

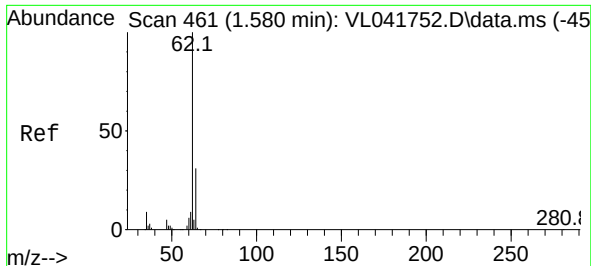
Tgt Ion: 51 Resp: 5587
Ion Ratio Lower Upper
51 100
67 21.0 15.0 22.4



#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 50 Resp: 2452
Ion Ratio Lower Upper
50 100
52 27.1 26.2 39.2

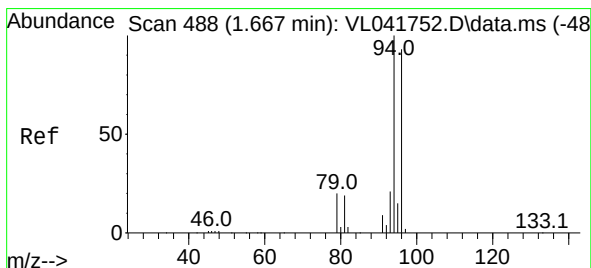
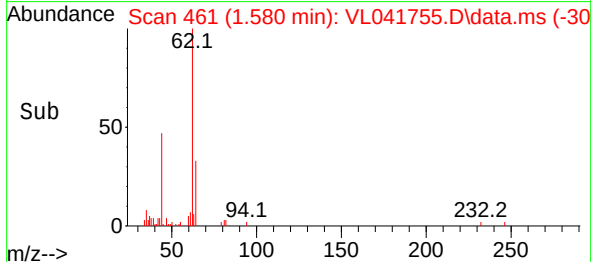
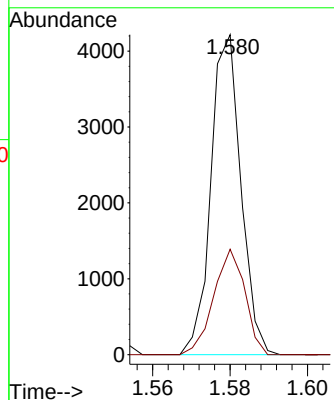
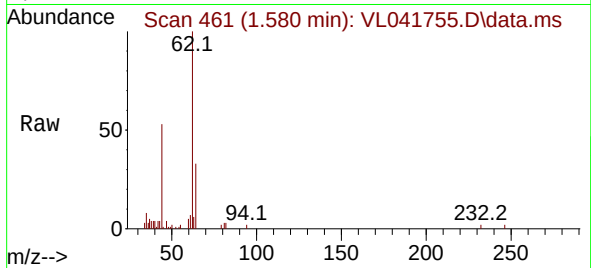




#5
 Vinyl Chloride
 Concen: 0.486 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

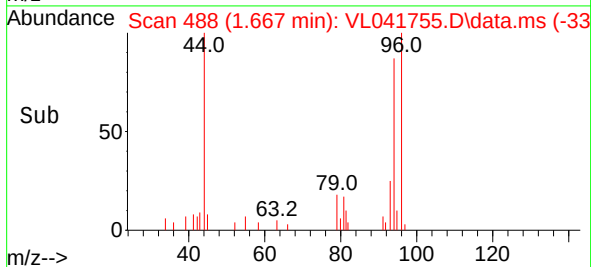
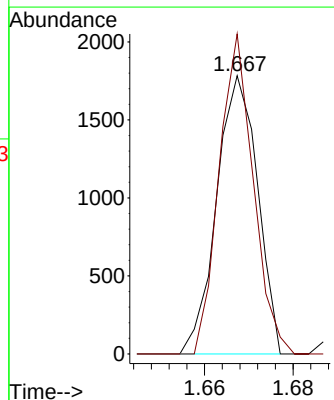
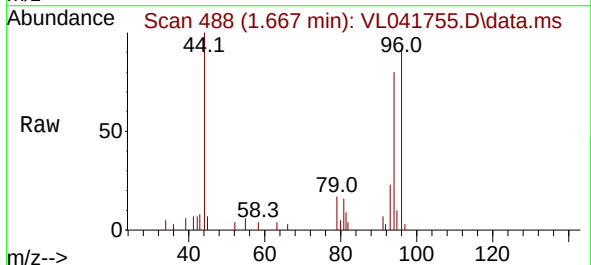
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

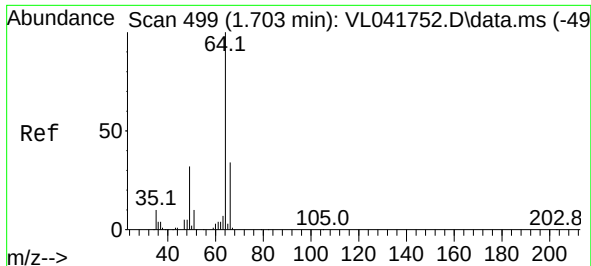
Tgt Ion: 62 Resp: 2269
 Ion Ratio Lower Upper
 62 100
 64 32.9 25.1 37.7



#6
 Bromomethane
 Concen: 0.519 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Tgt Ion: 94 Resp: 1143
 Ion Ratio Lower Upper
 94 100
 96 115.0 74.7 112.1#

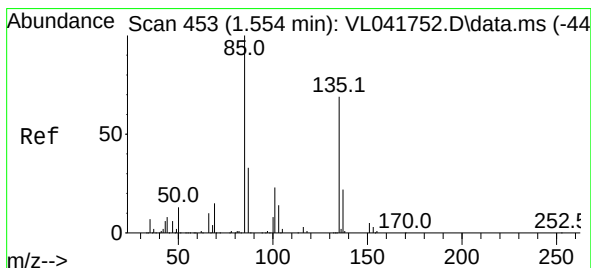
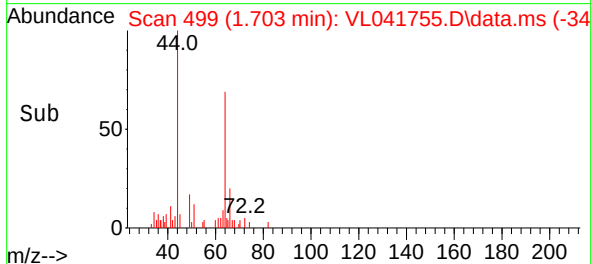
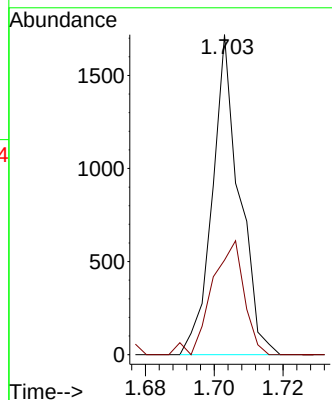
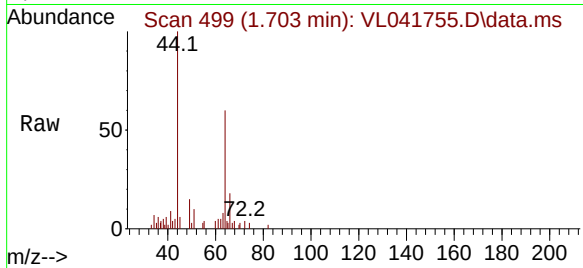




#7
Chloroethane
Concen: 0.518 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

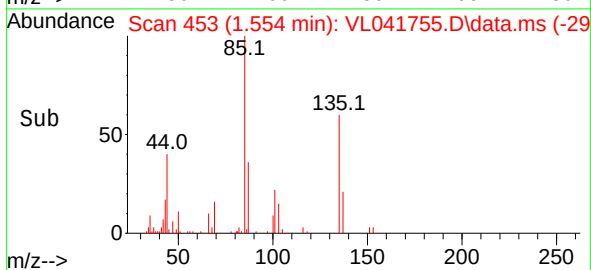
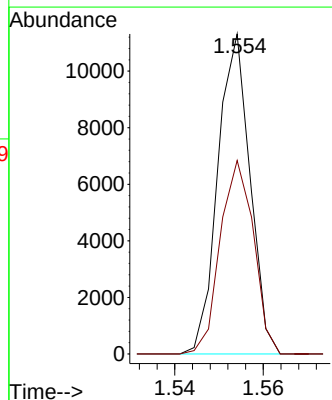
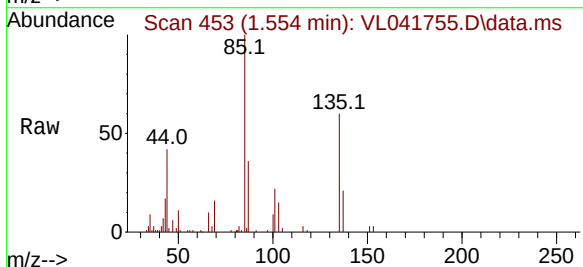
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

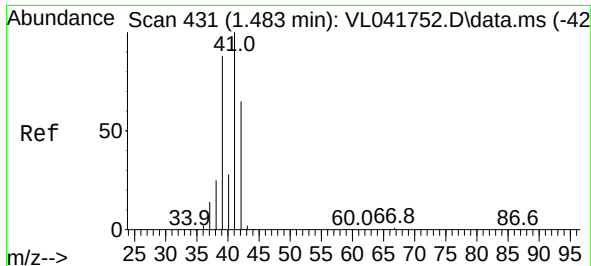
Tgt Ion: 64 Resp: 939
Ion Ratio Lower Upper
64 100
66 27.6 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 0.538 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 85 Resp: 5699
Ion Ratio Lower Upper
85 100
135 62.8 51.9 77.9





#9

Propene

Concen: 0.557 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

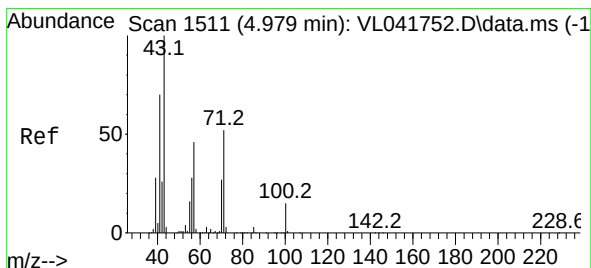
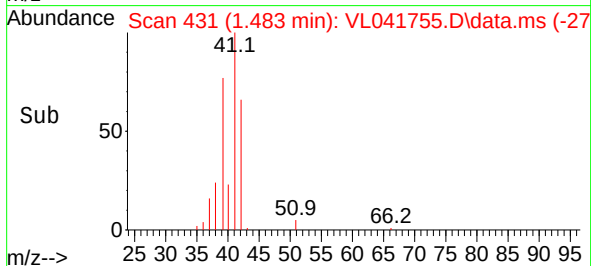
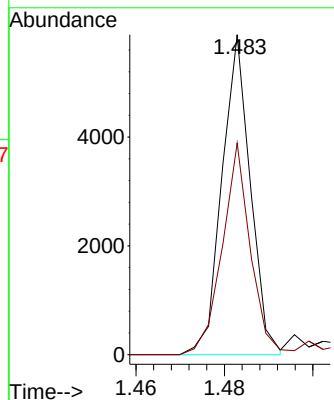
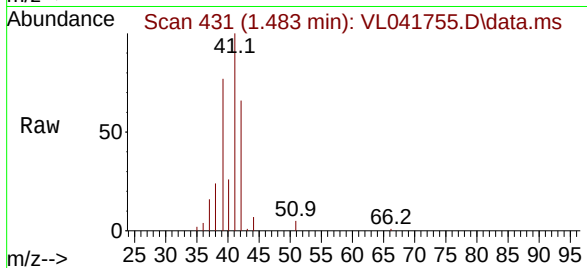
VSTDIC0.5

Tgt Ion: 41 Resp: 2622

Ion Ratio Lower Upper

41 100

42 79.6 52.4 78.6#



#10

Heptane

Concen: 0.485 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL041755.D

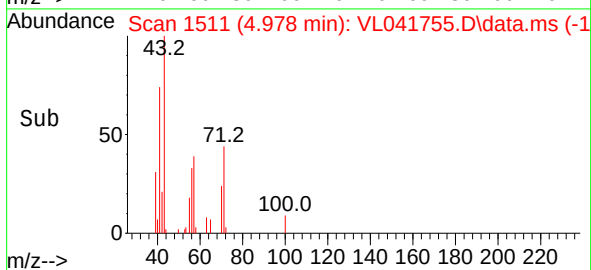
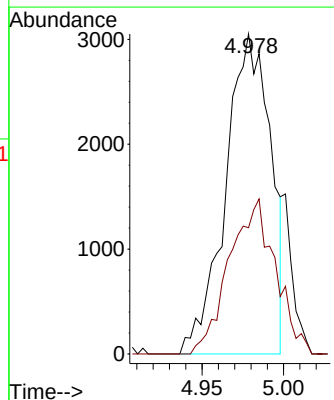
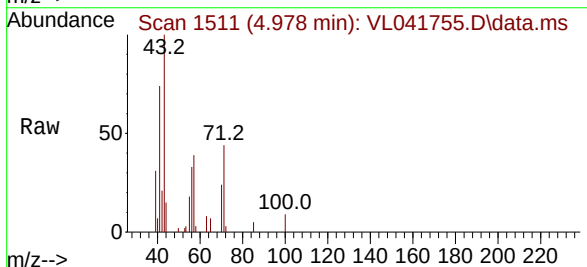
Acq: 16 Dec 2024 15:05

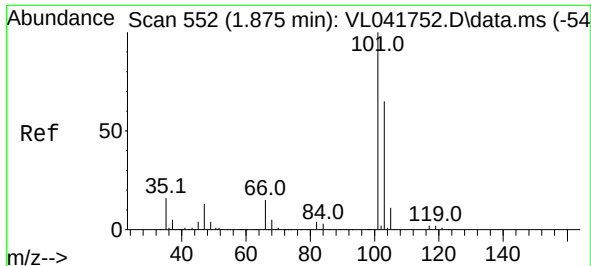
Tgt Ion: 43 Resp: 5865

Ion Ratio Lower Upper

43 100

57 49.5 38.5 57.7





#11

Trichlorofluoromethane

Concen: 0.524 ppbv

RT: 1.878 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

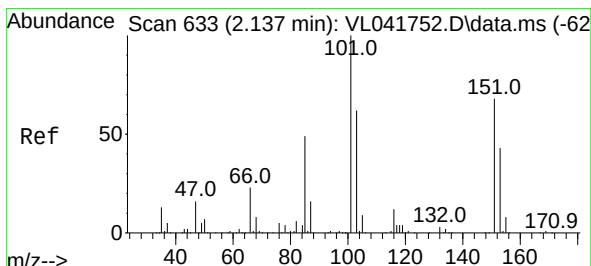
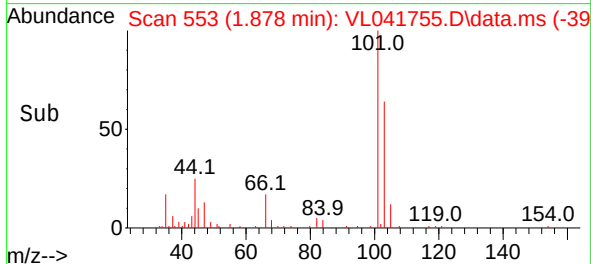
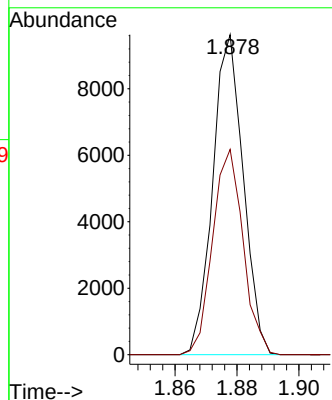
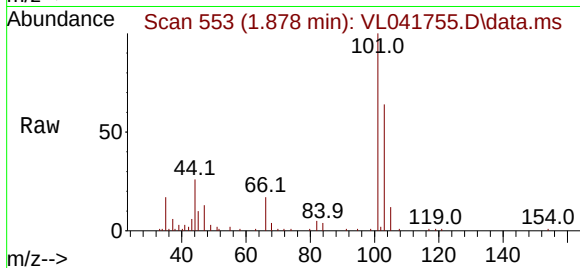
VSTDIC0.5

Tgt Ion:101 Resp: 6594

Ion Ratio Lower Upper

101 100

103 64.2 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.519 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL041755.D

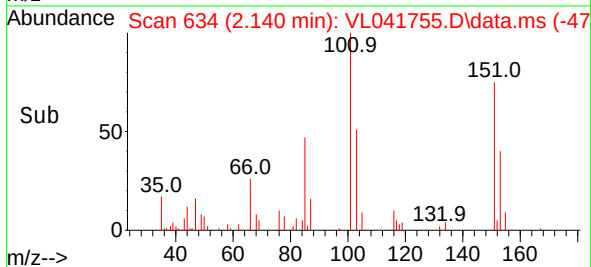
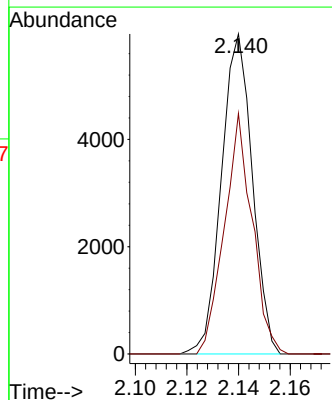
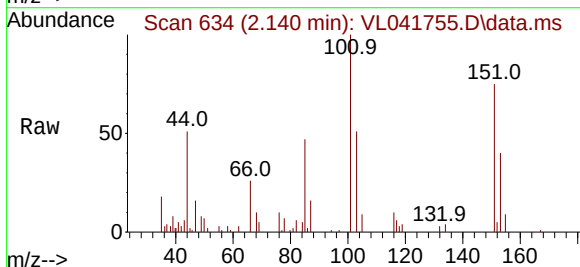
Acq: 16 Dec 2024 15:05

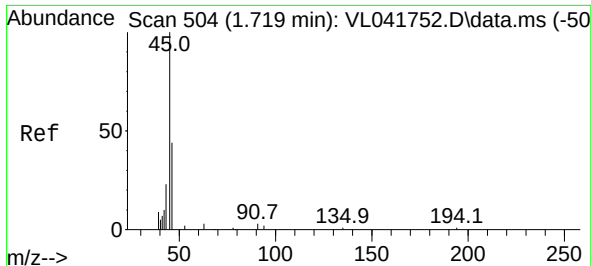
Tgt Ion:101 Resp: 4962

Ion Ratio Lower Upper

101 100

151 67.9 56.8 85.2





#13

Ethanol

Concen: 0.966 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

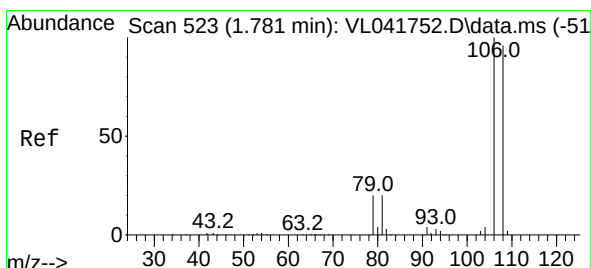
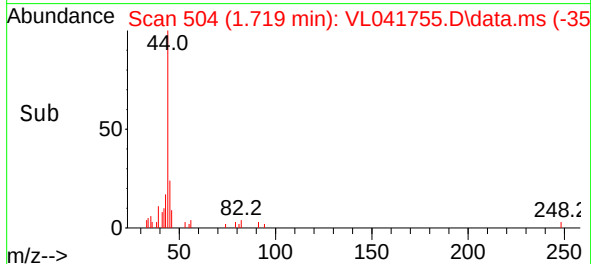
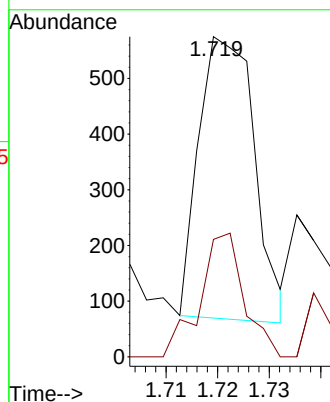
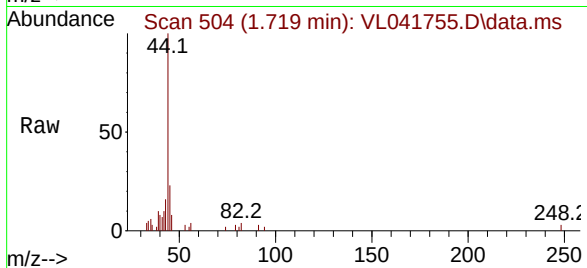
VSTDICC0.5

Tgt Ion: 45 Resp: 378

Ion Ratio Lower Upper

45 100

46 43.9 16.4 65.8



#14

Bromoethene

Concen: 0.524 ppbv

RT: 1.781 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

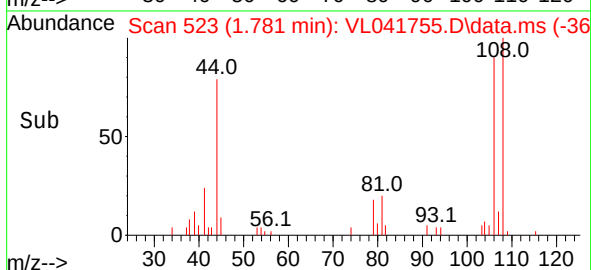
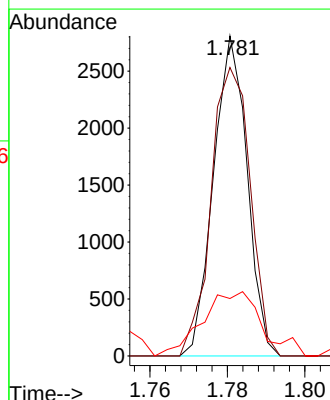
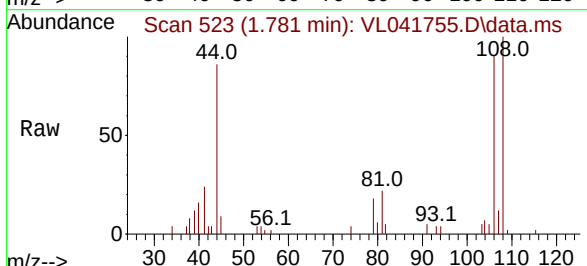
Tgt Ion:108 Resp: 1694

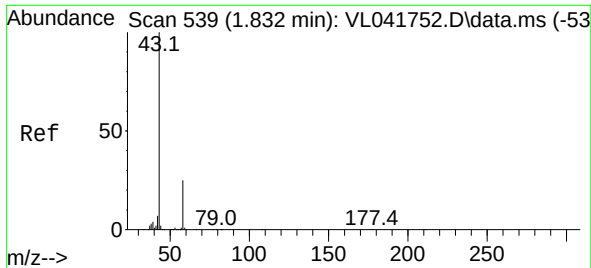
Ion Ratio Lower Upper

108 100

106 105.1 84.1 126.1

79 41.4 17.4 26.0#





#15

Acetone

Concen: 0.636 ppbv

RT: 1.836 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

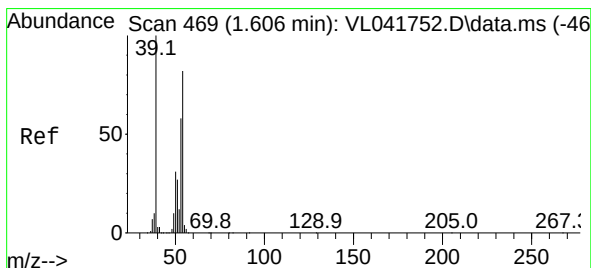
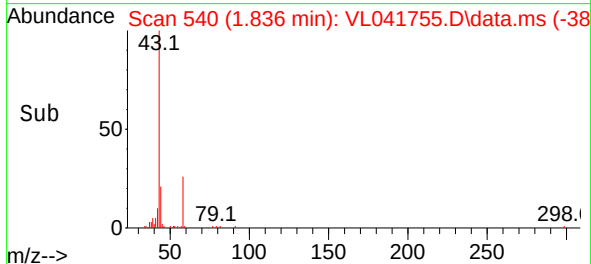
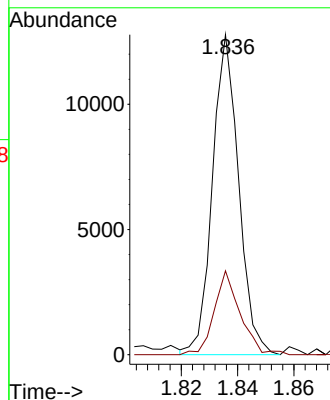
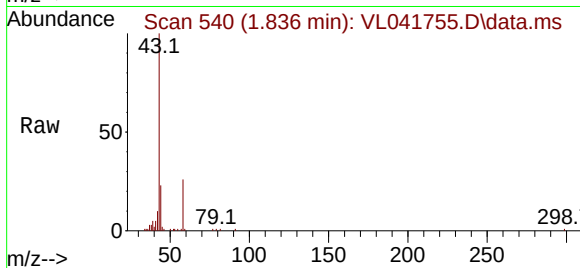
VSTDIC0.5

Tgt Ion: 43 Resp: 8233

Ion Ratio Lower Upper

43 100

58 26.0 19.7 29.5



#16

1,3-Butadiene

Concen: 0.582 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL041755.D

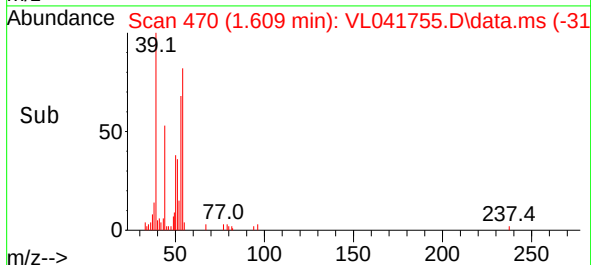
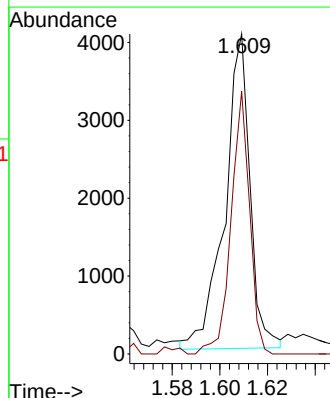
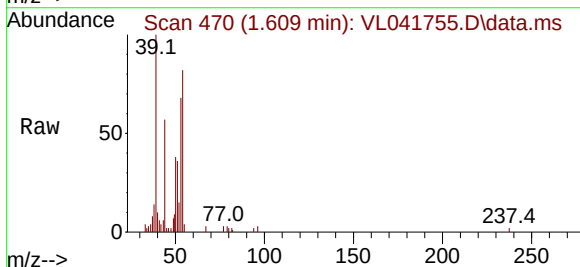
Acq: 16 Dec 2024 15:05

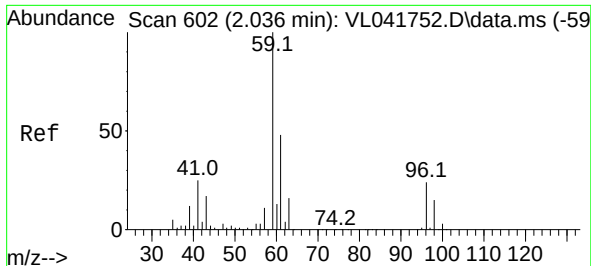
Tgt Ion: 39 Resp: 2966

Ion Ratio Lower Upper

39 100

54 62.8 58.4 87.6





#17

tert-Butyl alcohol

Concen: 0.518 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

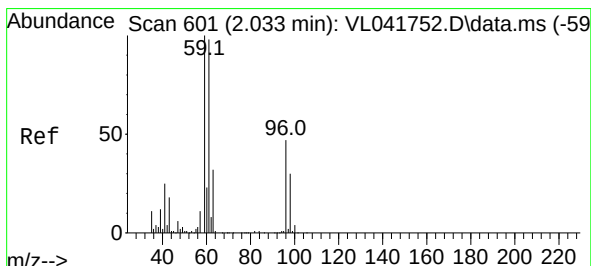
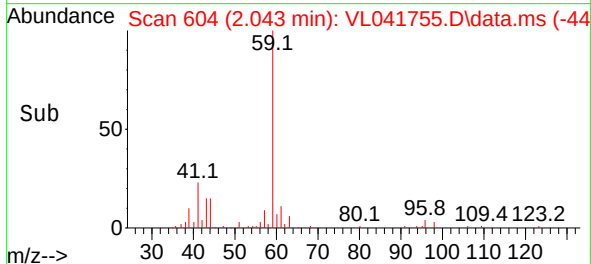
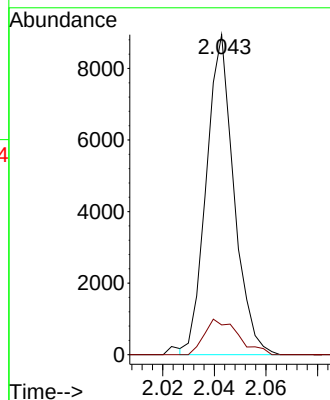
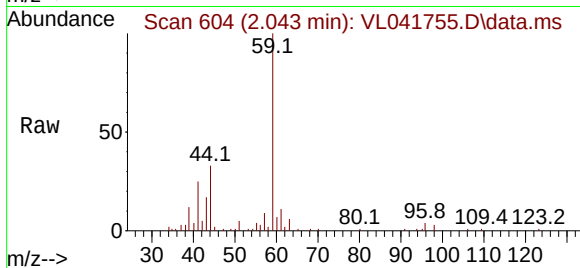
VSTDICC0.5

Tgt Ion: 59 Resp: 6654

Ion Ratio Lower Upper

59 100

57 14.3 8.6 13.0#



#18

1,1-Dichloroethene

Concen: 0.504 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

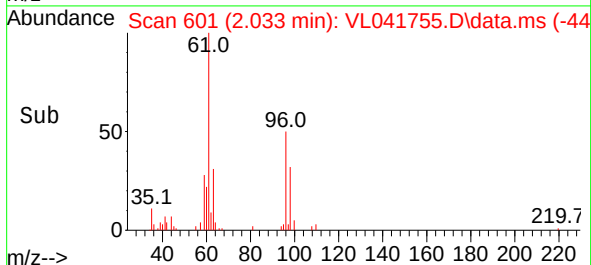
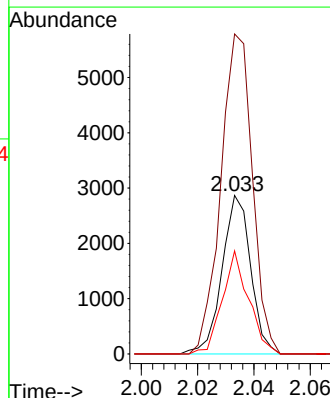
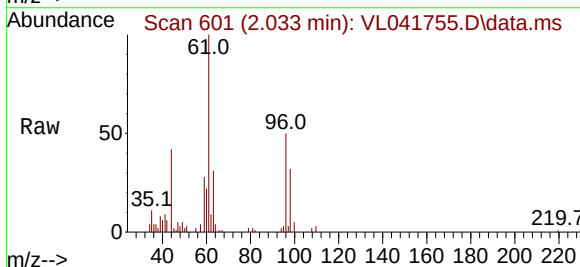
Tgt Ion: 96 Resp: 2022

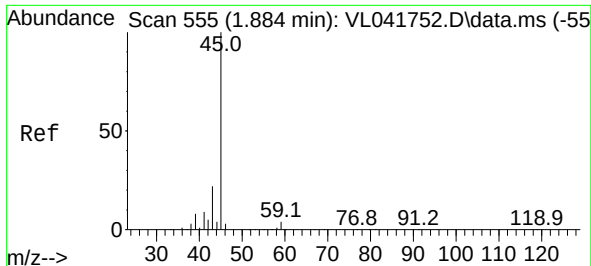
Ion Ratio Lower Upper

96 100

61 201.9 167.7 251.5

98 65.1 51.1 76.7





#19

Isopropyl Alcohol

Concen: 0.732 ppbv

RT: 1.884 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

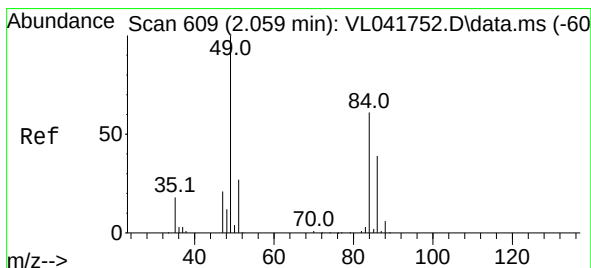
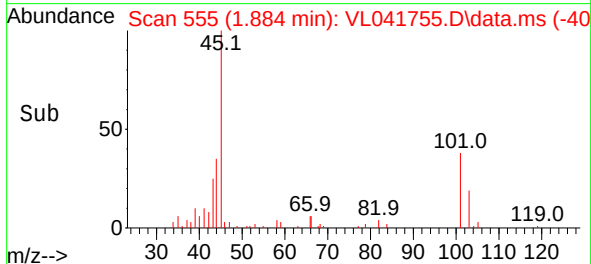
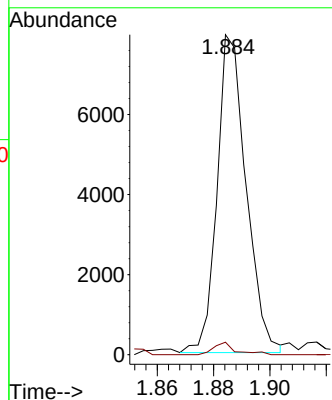
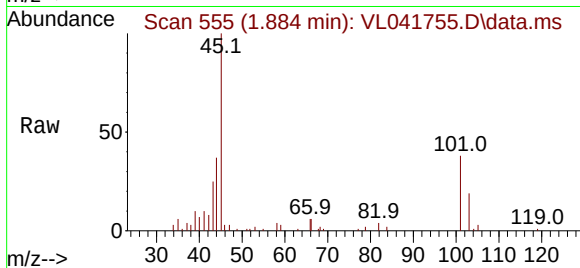
VSTDIC0.5

Tgt Ion: 45 Resp: 5687

Ion Ratio Lower Upper

45 100

58 2.9 33.3 49.9#



#20

Methylene Chloride

Concen: 0.589 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion: 84 Resp: 2174

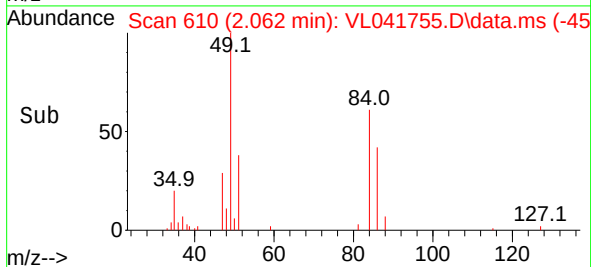
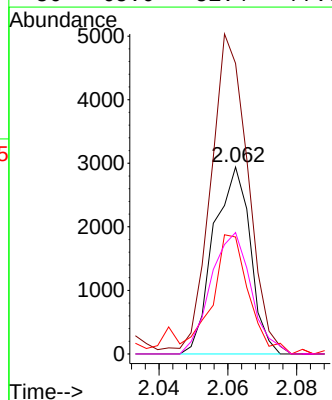
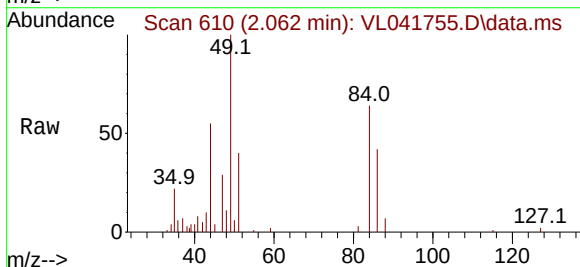
Ion Ratio Lower Upper

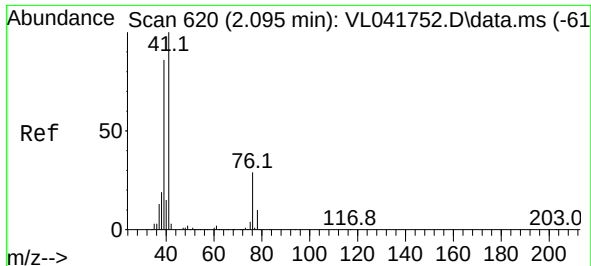
84 100

49 152.6 132.6 198.8

51 57.2 37.6 56.4#

86 65.0 51.4 77.0





#21

Allyl Chloride

Concen: 0.478 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

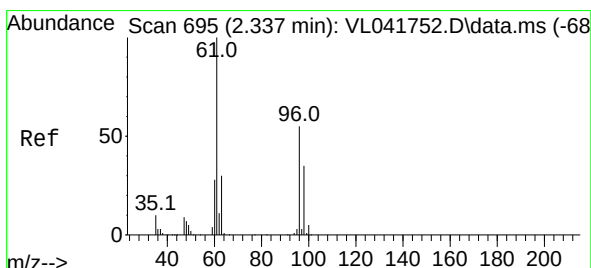
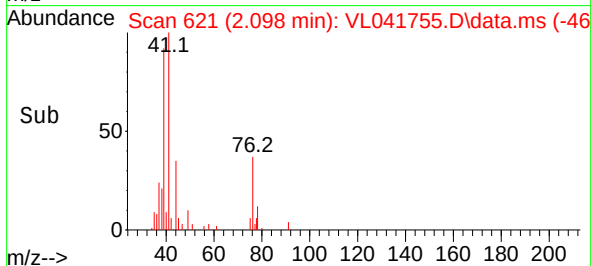
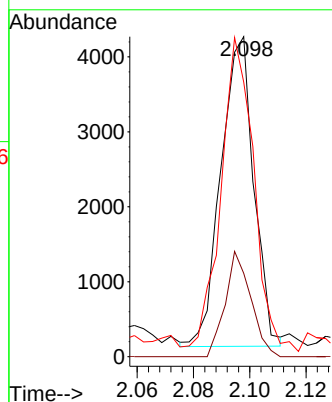
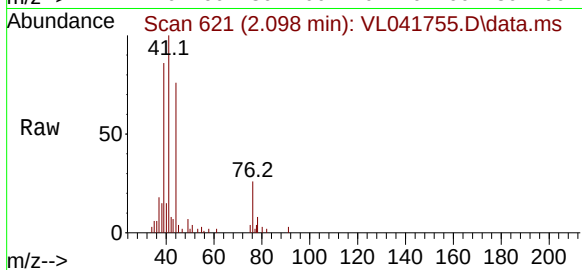
Tgt Ion: 41 Resp: 3354

Ion Ratio Lower Upper

41 100

76 26.5 22.3 33.5

39 102.6 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 0.543 ppbv

RT: 2.341 min Scan# 696

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

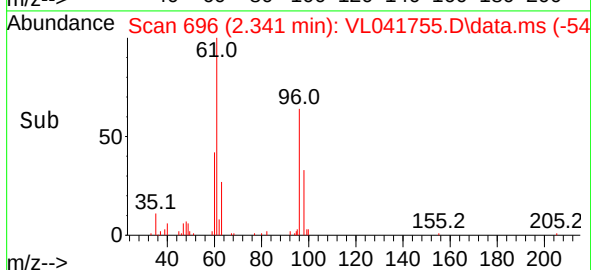
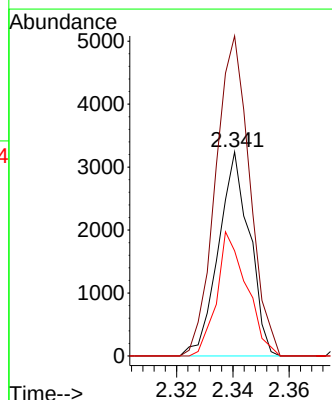
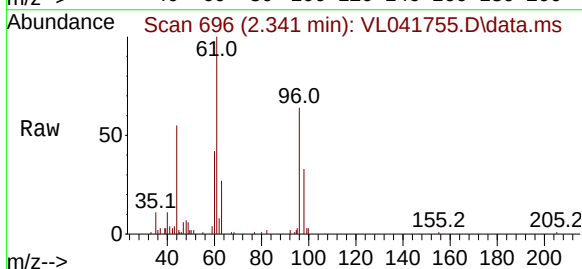
Tgt Ion: 96 Resp: 2494

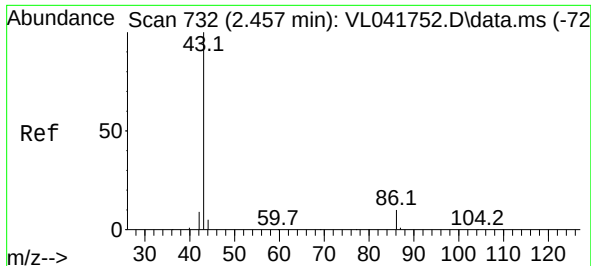
Ion Ratio Lower Upper

96 100

61 156.8 146.3 219.5

98 51.6 50.8 76.2

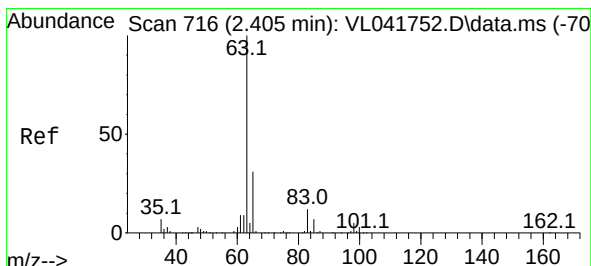
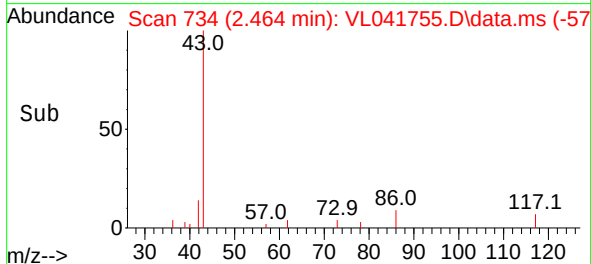
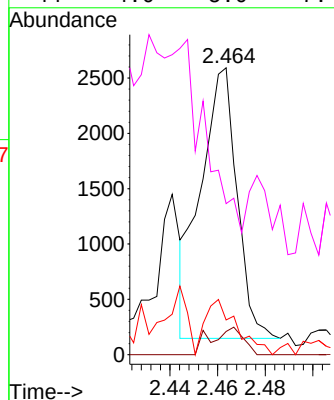
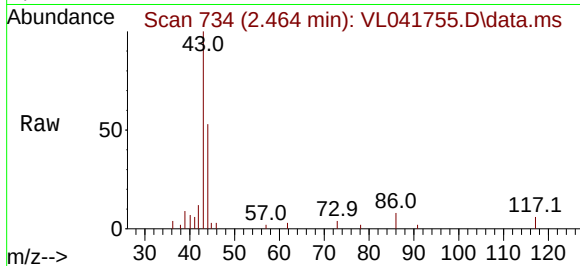




#23
 Vinyl Acetate
 Concen: 0.462 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

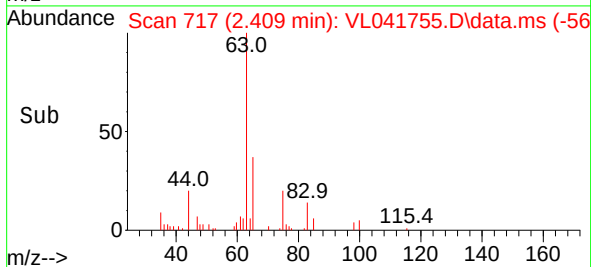
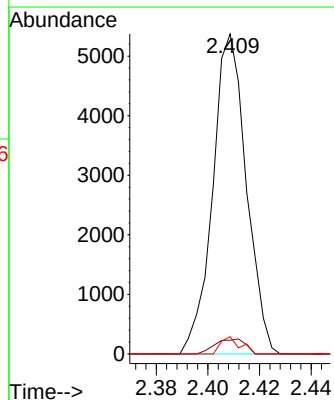
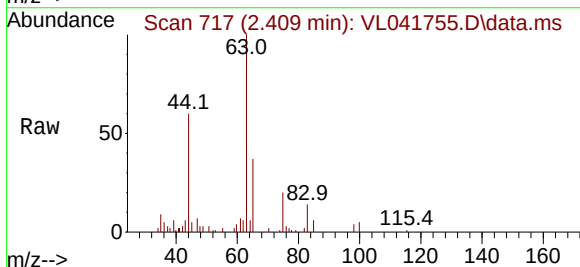
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

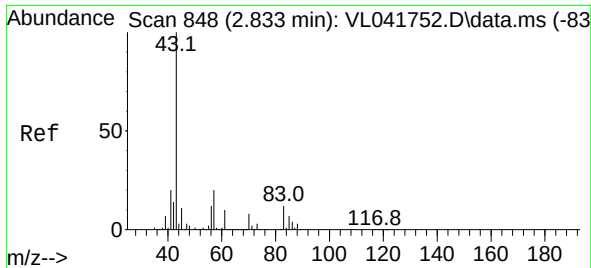
Tgt Ion: 43	Resp: 2599
Ion Ratio	Lower Upper
43 100	
86 8.6	6.6 10.0
42 10.2	8.2 12.2
44 4.0	5.0 7.4#



#24
 1,1-Dichloroethane
 Concen: 0.522 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Tgt Ion: 63	Resp:	4854
Ion Ratio	Lower	Upper
63 100		
98 4.3	2.3	6.8
100 5.4	1.4	4.2#





#25

Ethyl Acetate

Concen: 0.497 ppbv

RT: 2.839 min Scan# 848

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 12040

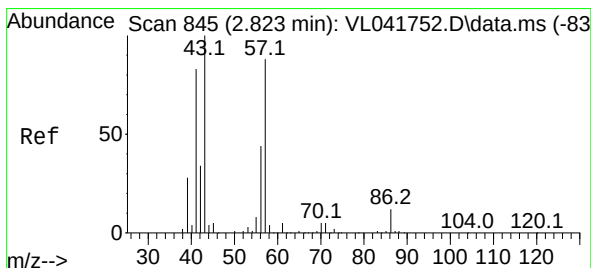
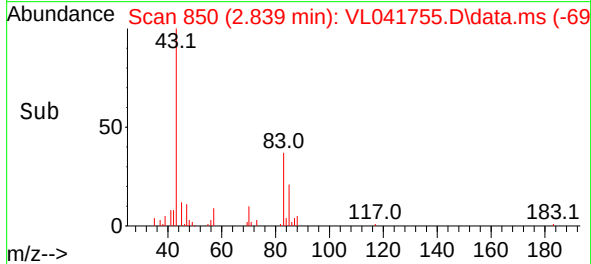
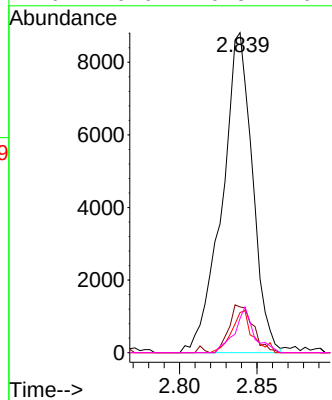
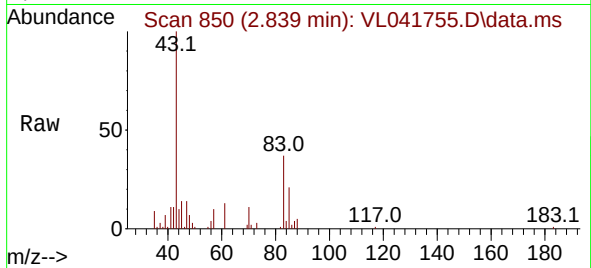
Ion Ratio Lower Upper

43 100

45 12.2 8.1 12.1#

61 9.0 7.0 10.6

70 9.0 6.5 9.7



#26

Hexane

Concen: 0.518 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion: 57 Resp: 4735

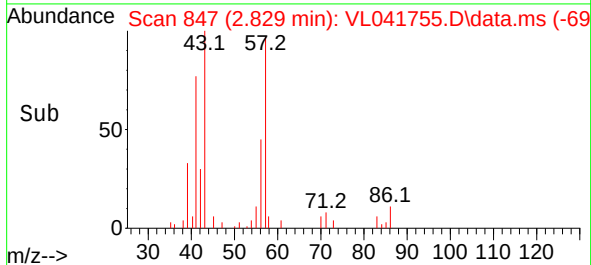
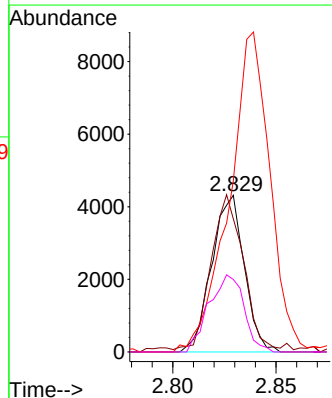
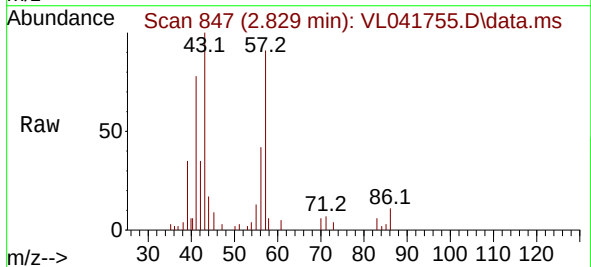
Ion Ratio Lower Upper

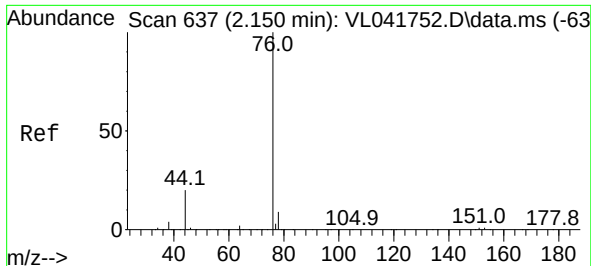
57 100

41 106.1 79.6 119.4

43 258.2 211.0 316.6

56 52.8 42.6 63.8





#27

Carbon Disulfide

Concen: 0.414 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

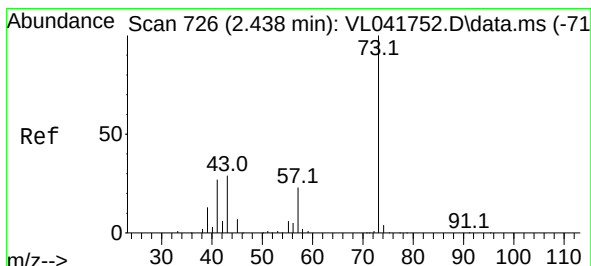
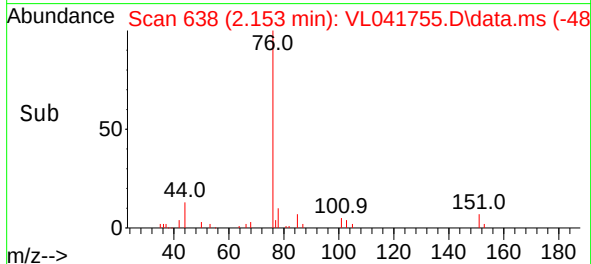
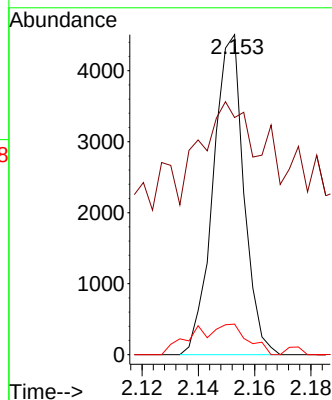
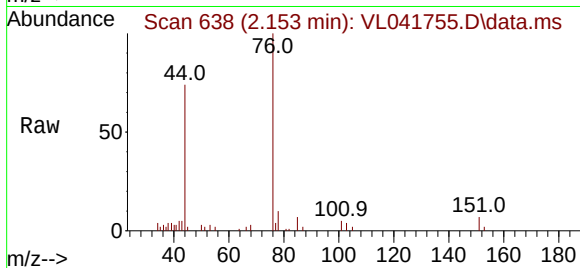
Tgt Ion: 76 Resp: 3409

Ion Ratio Lower Upper

76 100

44 65.5 17.6 26.4#

78 18.2 10.2 15.4#



#28

Methyl tert-Butyl Ether

Concen: 0.464 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.003 min

Lab File: VL041755.D

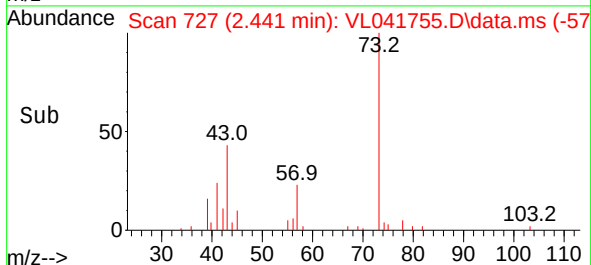
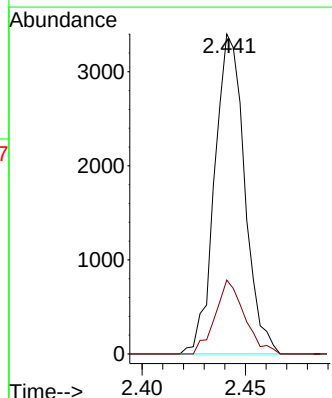
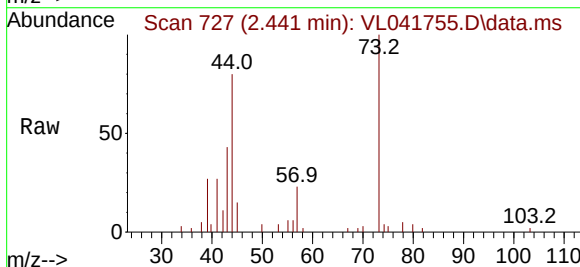
Acq: 16 Dec 2024 15:05

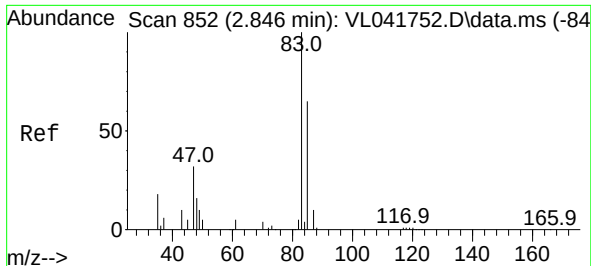
Tgt Ion: 73 Resp: 3438

Ion Ratio Lower Upper

73 100

57 22.6 17.6 26.4





#29

Chloroform

Concen: 0.515 ppbv

RT: 2.849 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

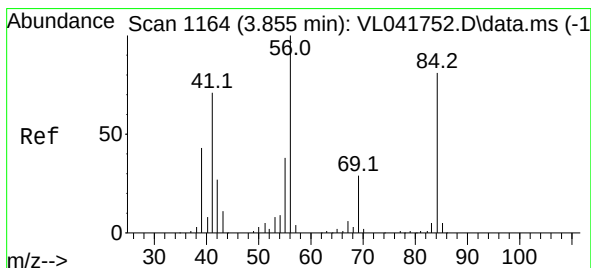
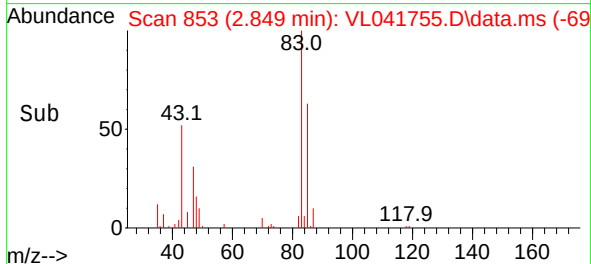
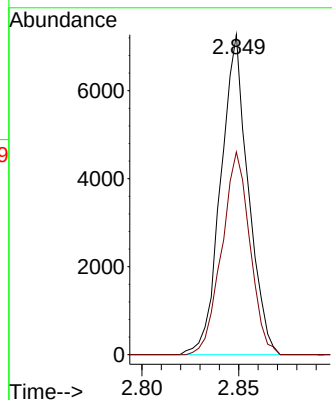
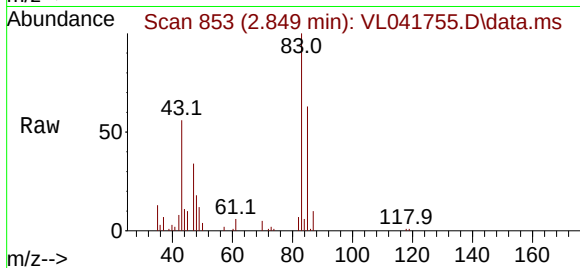
VSTDICC0.5

Tgt Ion: 83 Resp: 7172

Ion Ratio Lower Upper

83 100

85 63.3 51.8 77.6



#30

Cyclohexane

Concen: 0.521 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

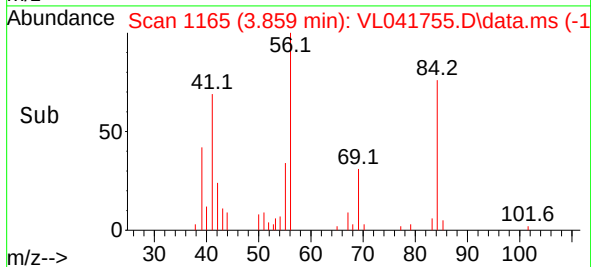
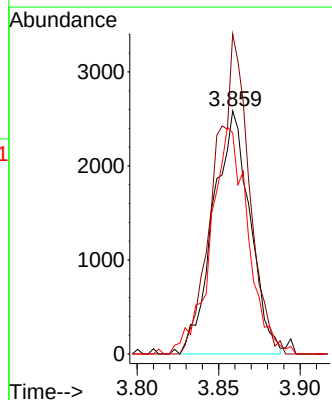
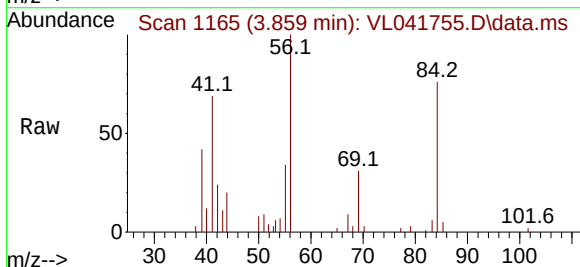
Tgt Ion: 84 Resp: 4051

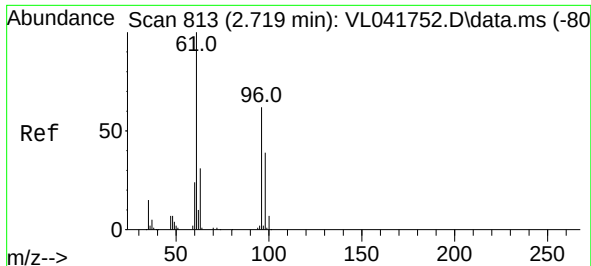
Ion Ratio Lower Upper

84 100

56 122.5 102.3 153.5

41 94.8 74.0 111.0





#31

cis-1,2-Dichloroethene

Concen: 0.504 ppbv

RT: 2.723 min Scan# 813

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

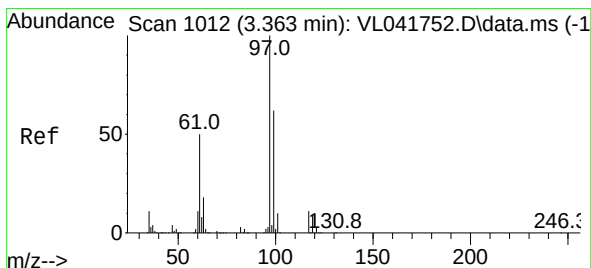
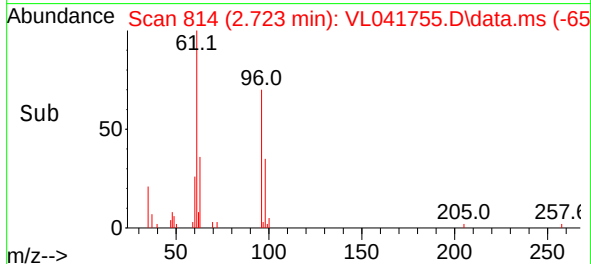
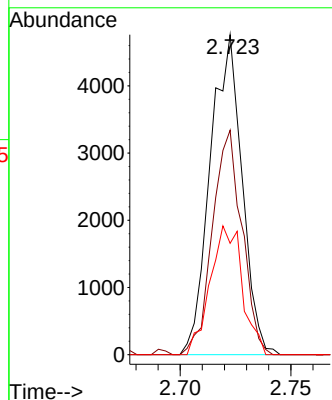
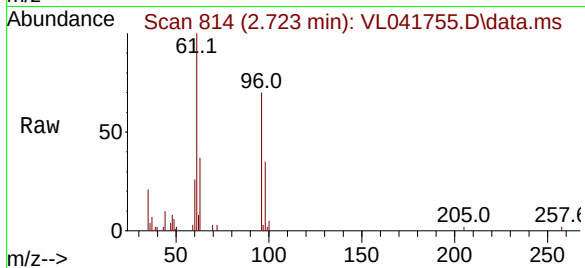
Tgt Ion: 61 Resp: 4758

Ion Ratio Lower Upper

61 100

96 70.2 49.7 74.5

98 34.8 30.8 46.2



#32

1,1,1-Trichloroethane

Concen: 0.518 ppbv

RT: 3.367 min Scan# 1013

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

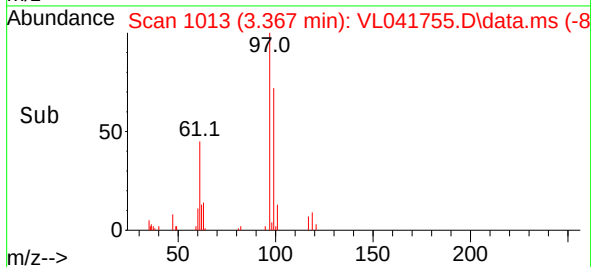
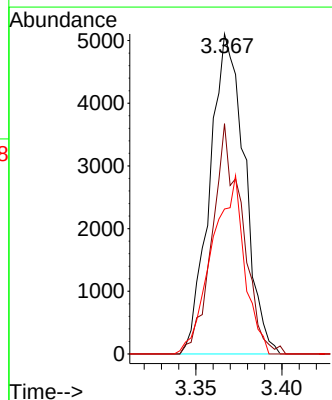
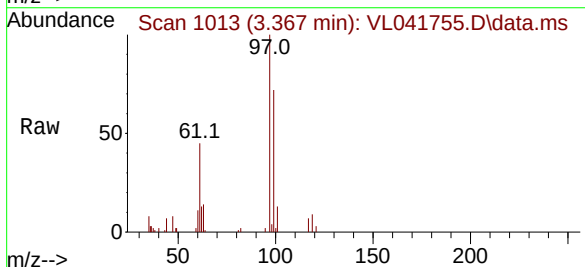
Tgt Ion: 97 Resp: 7182

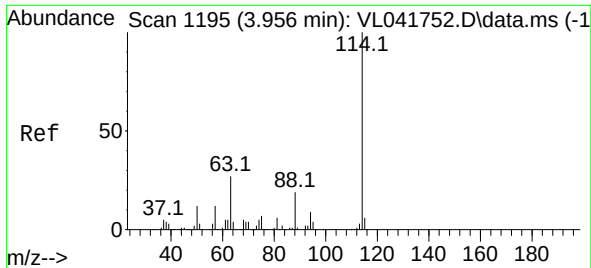
Ion Ratio Lower Upper

97 100

99 62.2 51.0 76.4

61 52.1 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

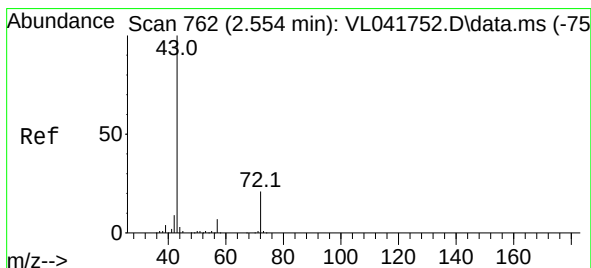
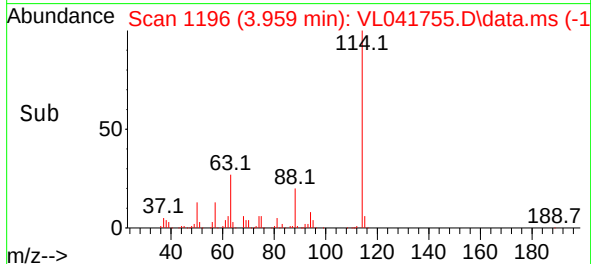
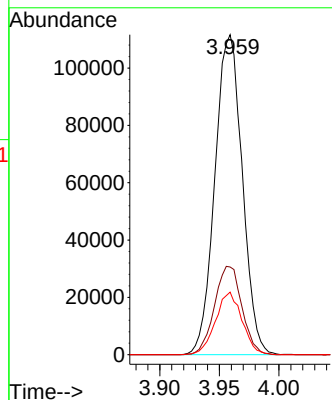
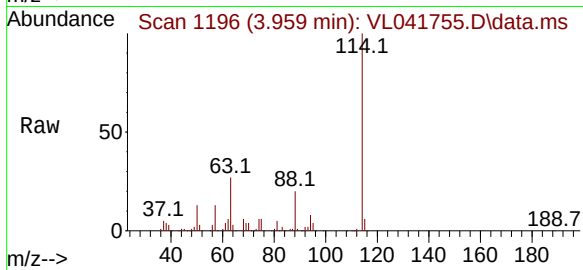
Tgt Ion:114 Resp: 178453

Ion Ratio Lower Upper

114 100

63 27.6 21.8 32.8

88 18.9 14.8 22.2



#34

2-Butanone

Concen: 0.540 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL041755.D

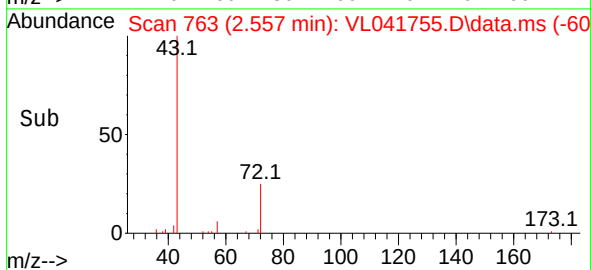
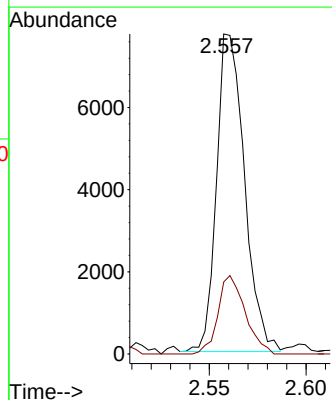
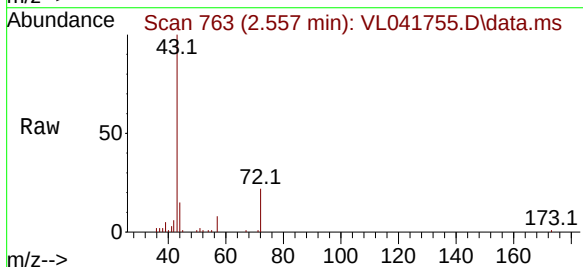
Acq: 16 Dec 2024 15:05

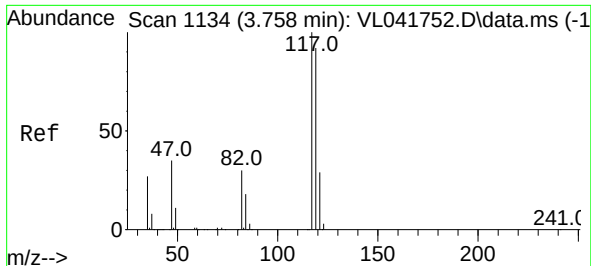
Tgt Ion: 43 Resp: 7756

Ion Ratio Lower Upper

43 100

72 24.0 16.8 25.2

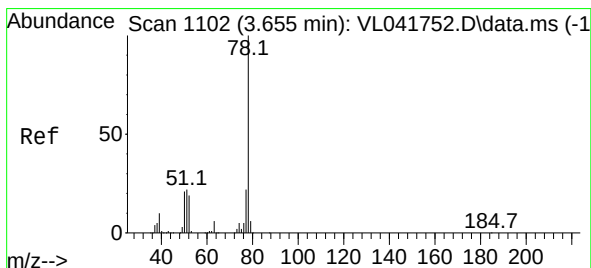
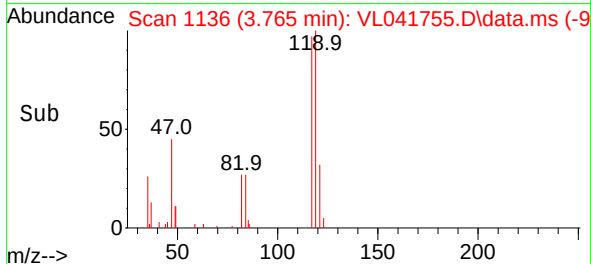
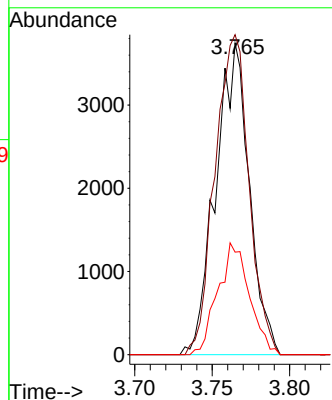
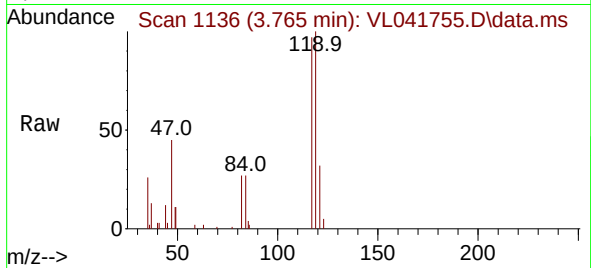




#35
Carbon Tetrachloride
Concen: 0.446 ppbv
RT: 3.765 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

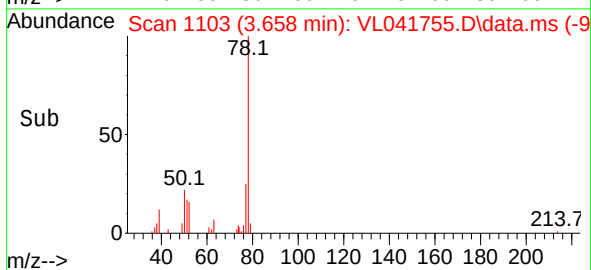
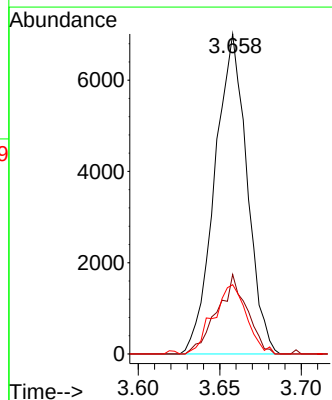
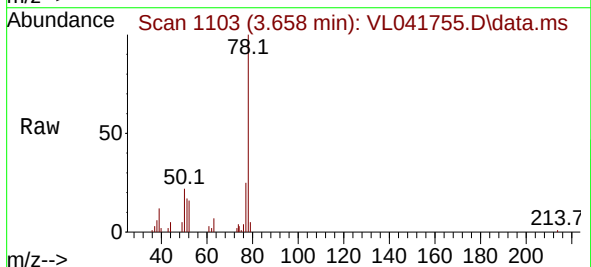
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

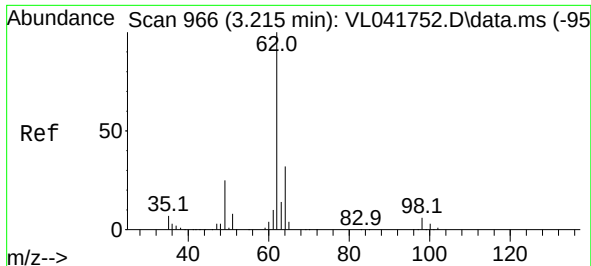
Tgt Ion:117 Resp: 5655
Ion Ratio Lower Upper
117 100
119 102.7 73.7 110.5
121 32.9 23.0 34.4



#36
Benzene
Concen: 0.522 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 78 Resp: 9629
Ion Ratio Lower Upper
78 100
77 24.8 17.8 26.6
50 21.7 17.2 25.8

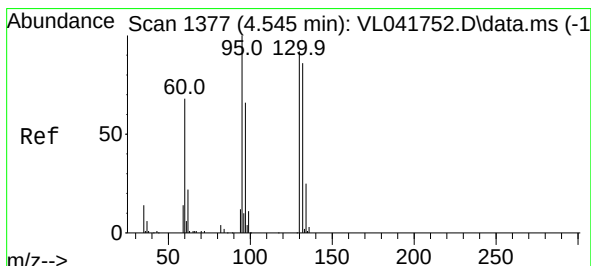
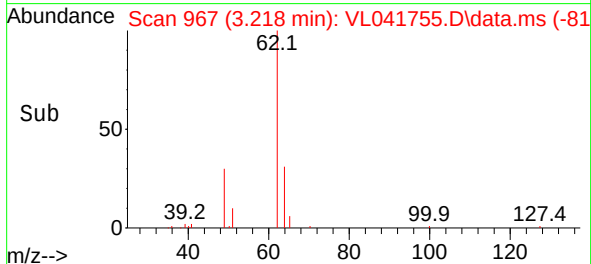
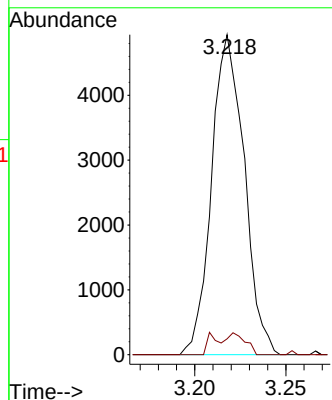
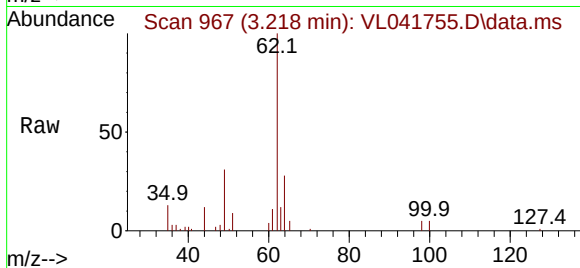




#37
1,2-Dichloroethane
Concen: 0.536 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

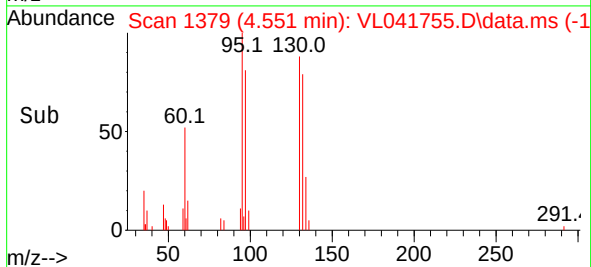
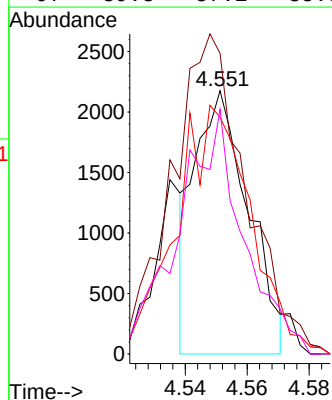
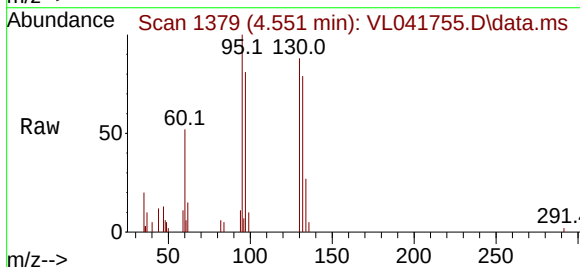
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

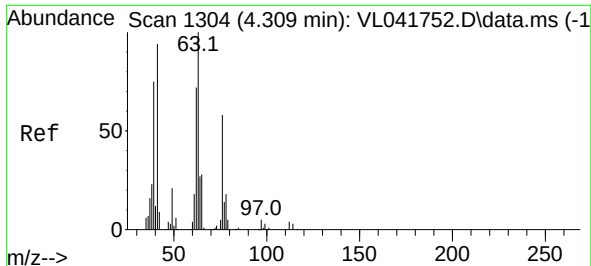
Tgt Ion: 62 Resp: 6154
Ion Ratio Lower Upper
62 100
98 6.3 4.7 7.1



#38
Trichloroethene
Concen: 0.336 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion:130 Resp: 2613
Ion Ratio Lower Upper
130 100
95 116.2 87.0 130.6
132 82.8 75.0 112.6
97 89.3 57.2 85.8#





#39

1,2-Dichloropropane

Concen: 0.333 ppbv

RT: 4.318 min Scan# 1307

Delta R.T. 0.010 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

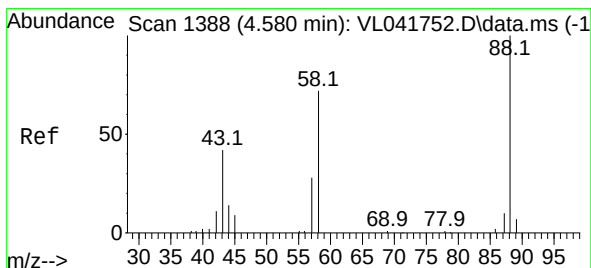
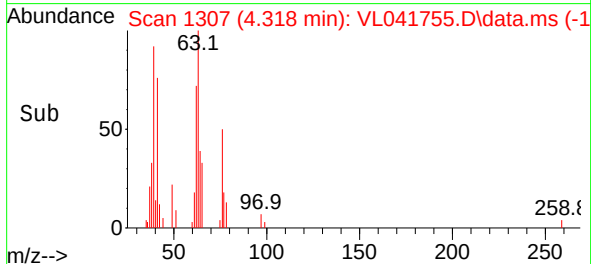
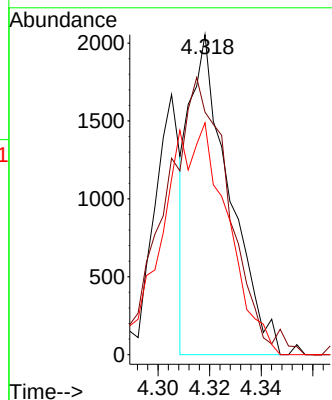
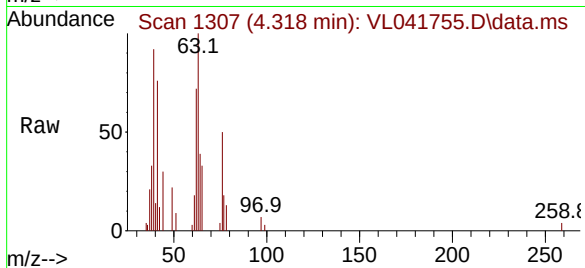
Tgt Ion: 63 Resp: 2224

Ion Ratio Lower Upper

63 100

41 67.9 75.3 112.9#

62 72.4 57.3 85.9



#40

1,4-Dioxane

Concen: 0.070 ppbv

RT: 4.597 min Scan# 1393

Delta R.T. 0.016 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion: 88 Resp: 229

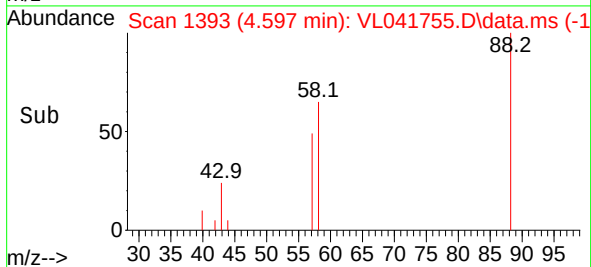
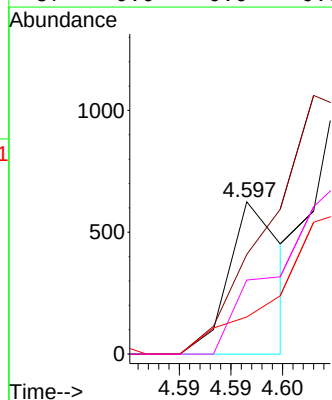
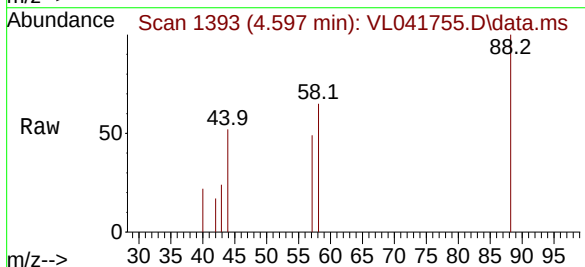
Ion Ratio Lower Upper

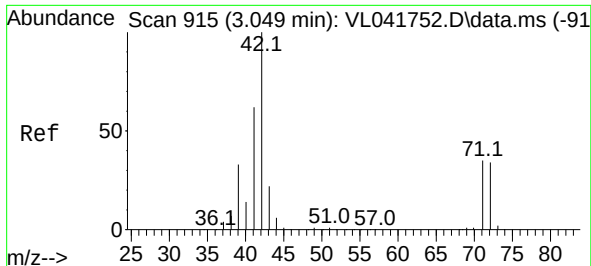
88 100

58 0.0 61.0 91.6#

43 0.0 29.4 44.0#

57 0.0 0.0 0.0

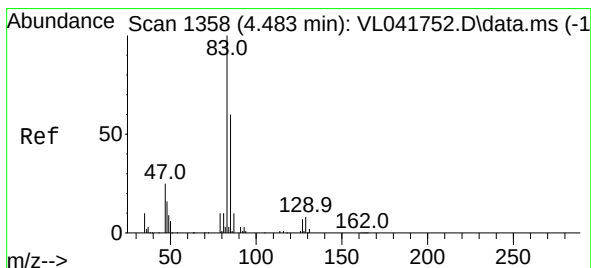
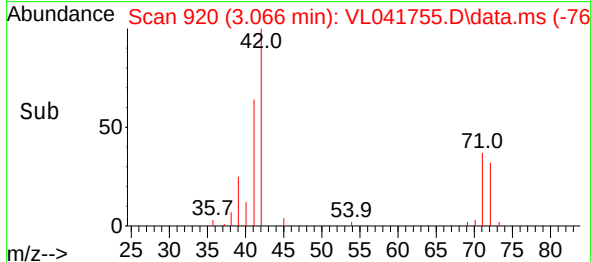
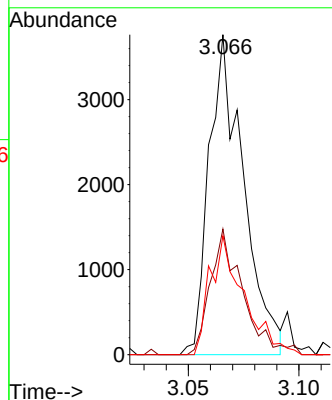
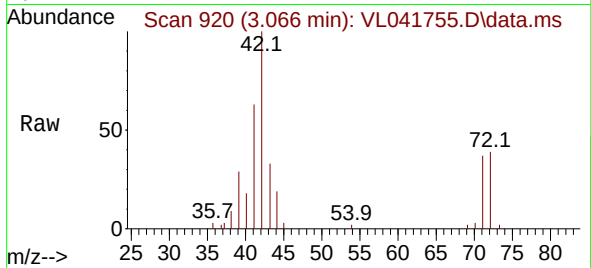




#41
Tetrahydrofuran
Concen: 0.505 ppbv
RT: 3.066 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

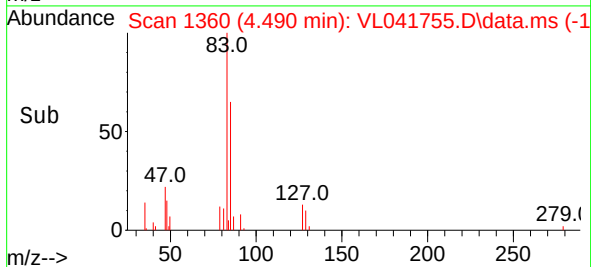
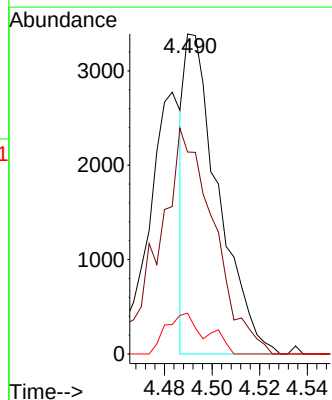
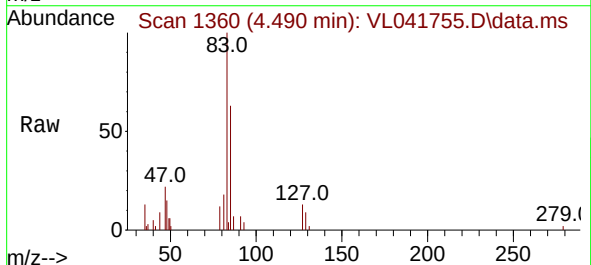
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

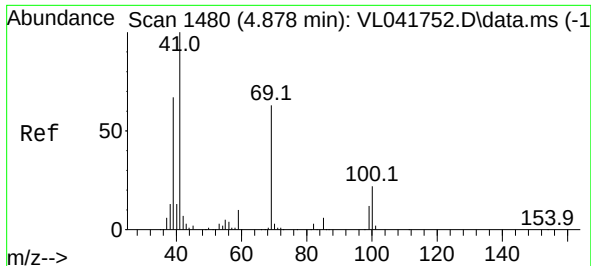
Tgt Ion: 42 Resp: 4061
Ion Ratio Lower Upper
42 100
72 37.0 29.1 43.7
71 36.5 28.4 42.6



#42
Bromodichloromethane
Concen: 0.251 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 83 Resp: 3315
Ion Ratio Lower Upper
83 100
85 63.1 48.0 72.0
127 12.7 5.8 8.8#





#43

Methyl Methacrylate

Concen: 0.472 ppbv

RT: 4.881 min Scan# 1481

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

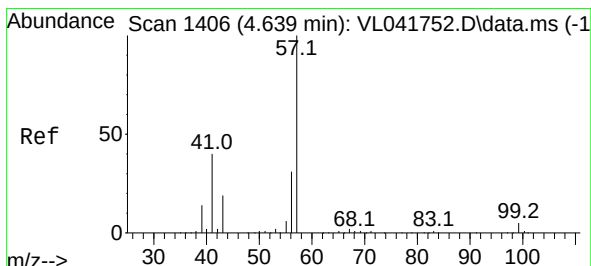
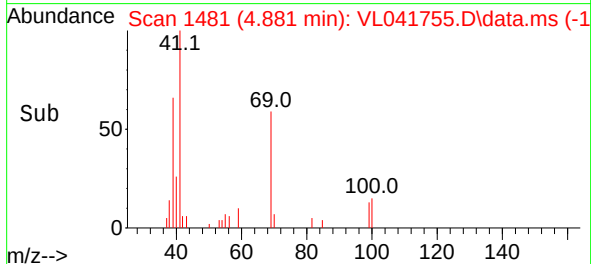
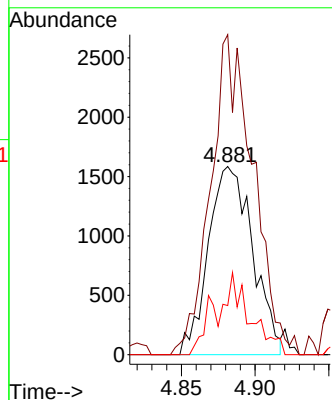
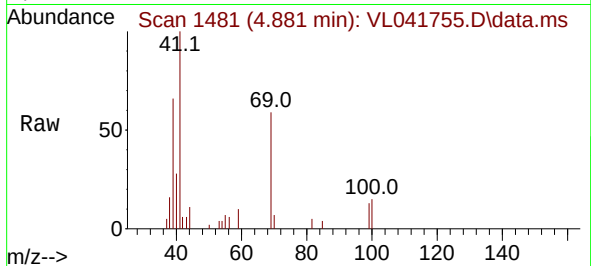
Tgt Ion: 69 Resp: 3322

Ion Ratio Lower Upper

69 100

41 163.7 130.3 195.5

100 33.2 28.3 42.5



#44

2,2,4-Trimethylpentane

Concen: 0.309 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

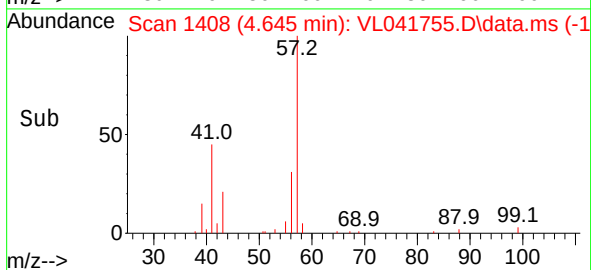
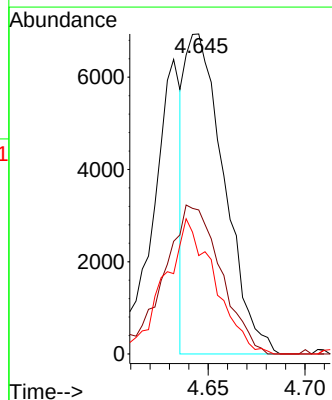
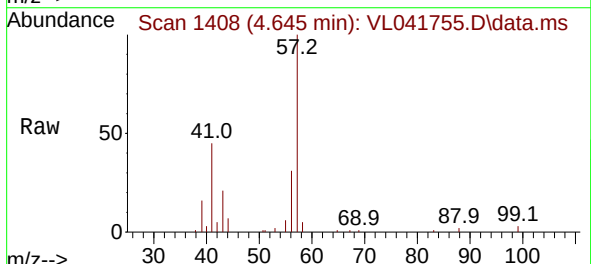
Tgt Ion: 57 Resp: 9729

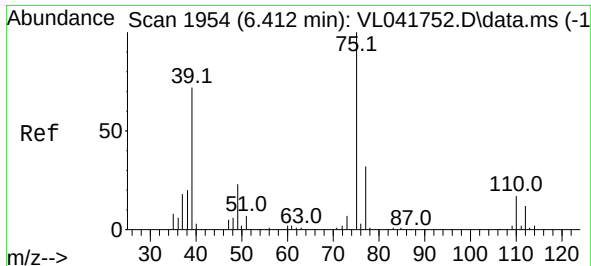
Ion Ratio Lower Upper

57 100

41 0.0 30.7 46.1#

56 0.0 25.4 38.0#





#45

t-1,3-Dichloropropene

Concen: 0.038 ppbv

RT: 6.438 min Scan# 1954

Delta R.T. 0.026 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

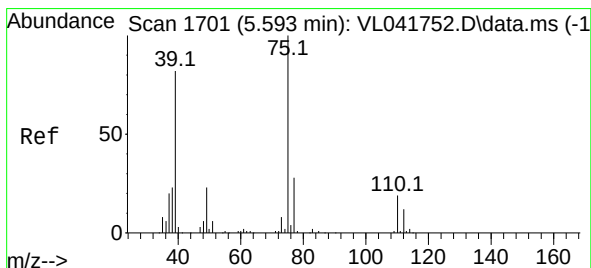
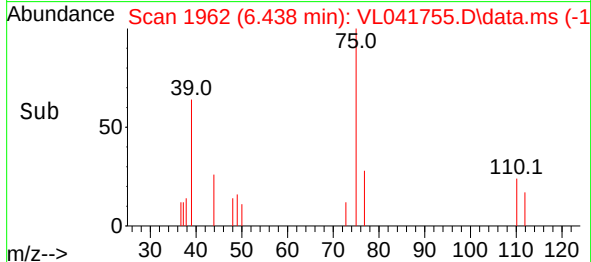
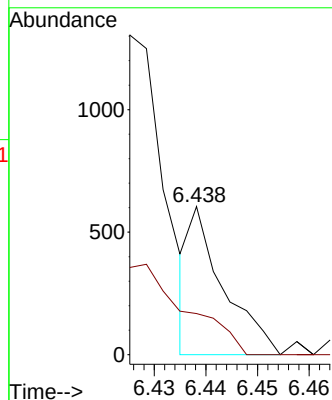
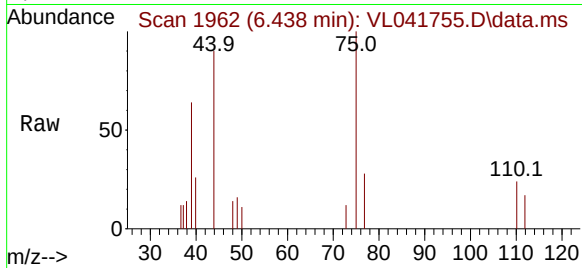
VSTDIC0.5

Tgt Ion: 75 Resp: 279

Ion Ratio Lower Upper

75 100

77 27.8 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 0.179 ppbv

RT: 5.597 min Scan# 1702

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

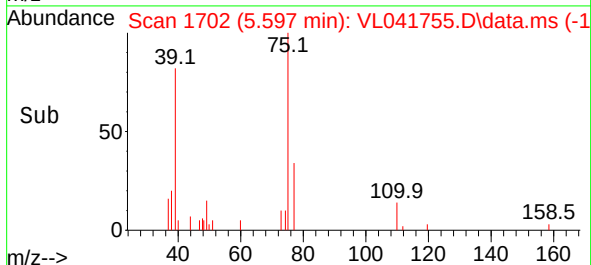
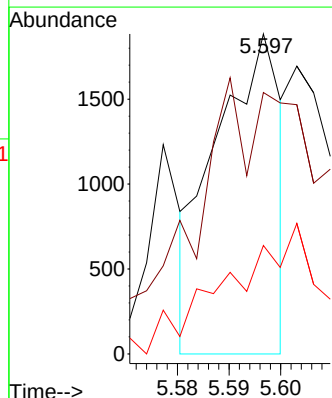
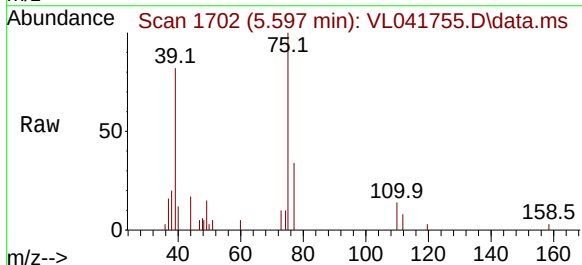
Tgt Ion: 75 Resp: 1656

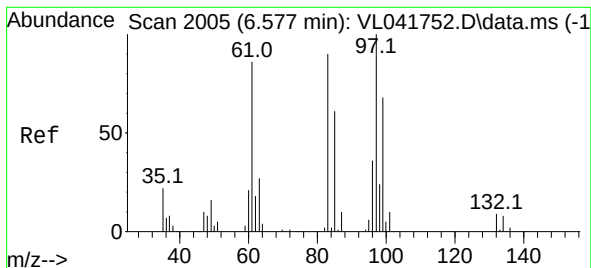
Ion Ratio Lower Upper

75 100

39 72.0 65.2 97.8

77 51.2 22.0 33.0#





#47

1,1,2-Trichloroethane

Concen: 0.342 ppbv

RT: 6.587 min Scan# 20

Delta R.T. 0.010 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 2388

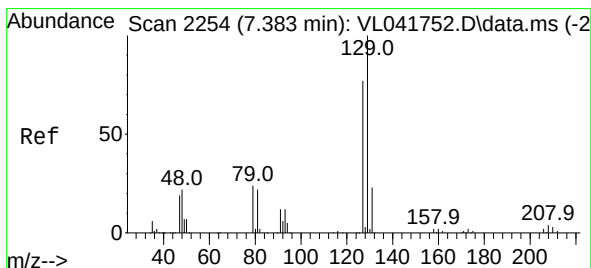
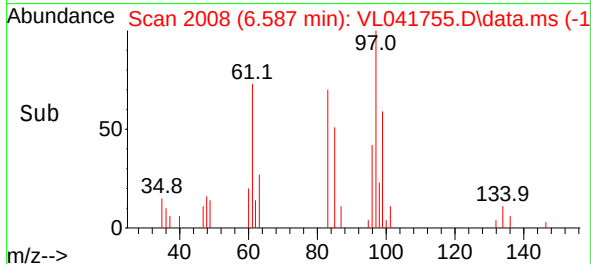
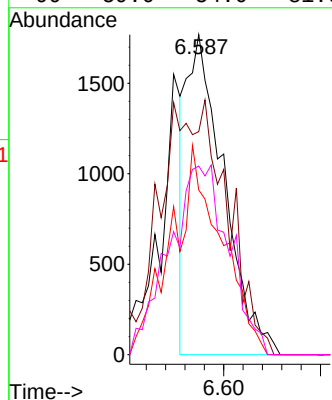
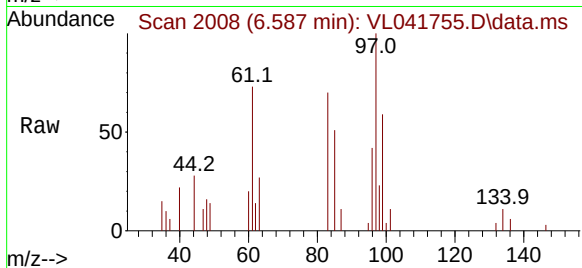
Ion Ratio Lower Upper

97 100

83 69.7 72.3 108.5#

85 51.4 48.5 72.7

99 59.0 54.0 81.0



#48

Dibromochloromethane

Concen: 0.406 ppbv

RT: 7.387 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL041755.D

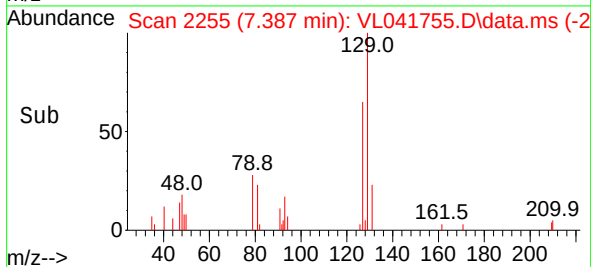
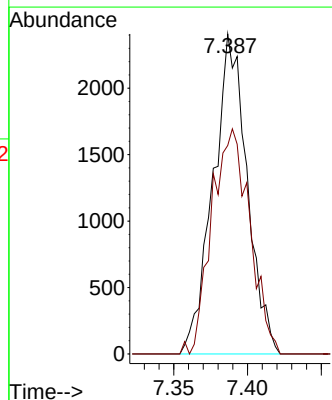
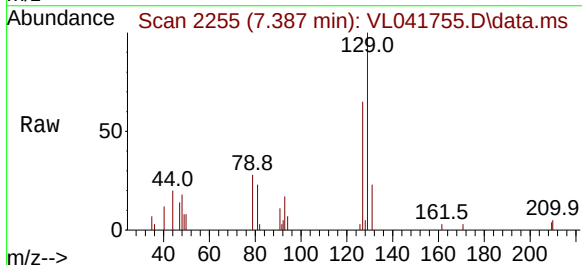
Acq: 16 Dec 2024 15:05

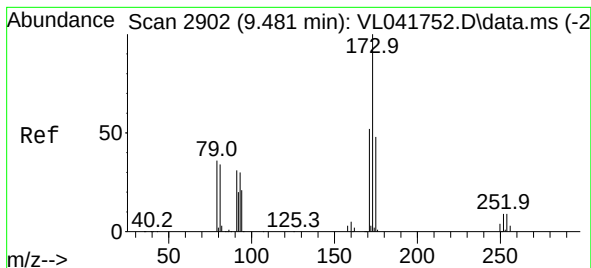
Tgt Ion: 129 Resp: 3865

Ion Ratio Lower Upper

129 100

127 78.8 38.8 116.3





#49

Bromoform

Concen: 0.368 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

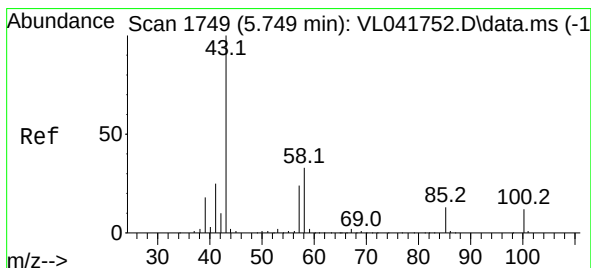
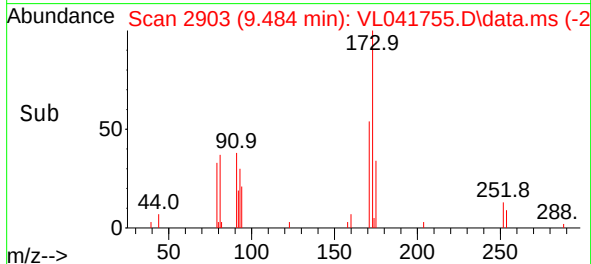
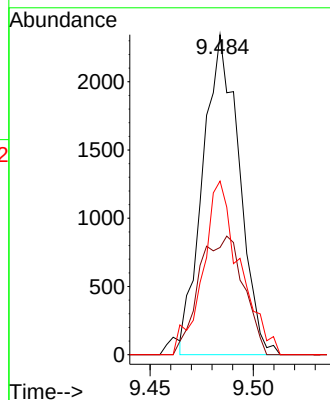
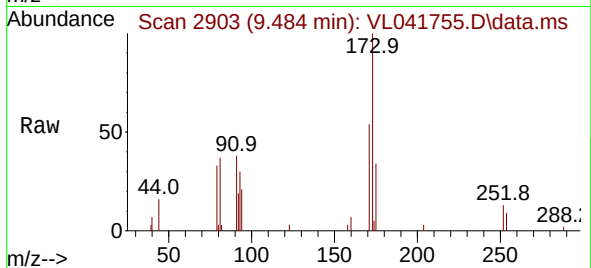
Tgt Ion:173 Resp: 2869

Ion Ratio Lower Upper

173 100

175 45.6 38.2 57.2

171 55.2 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 0.244 ppbv

RT: 5.765 min Scan# 1754

Delta R.T. 0.016 min

Lab File: VL041755.D

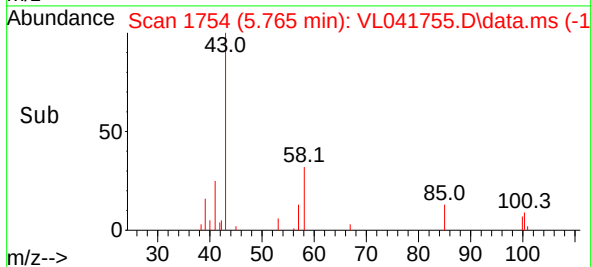
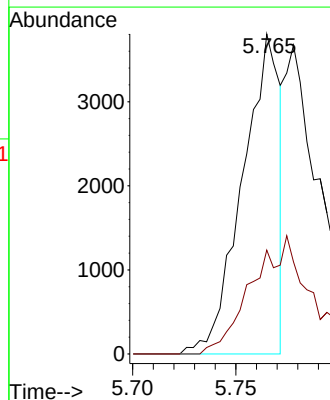
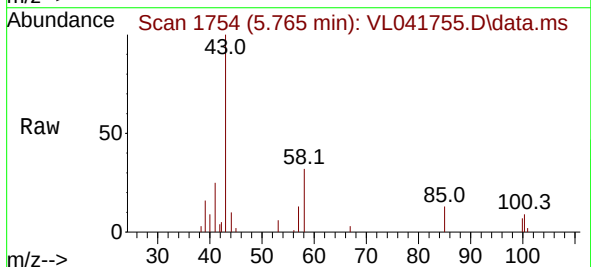
Acq: 16 Dec 2024 15:05

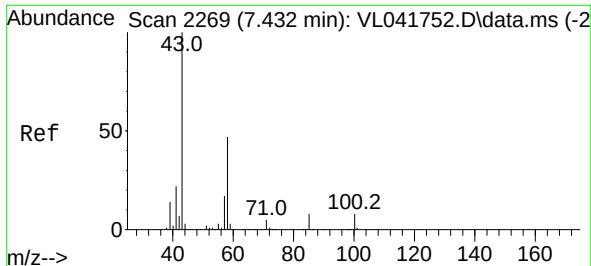
Tgt Ion: 43 Resp: 4771

Ion Ratio Lower Upper

43 100

58 0.0 26.8 40.2#

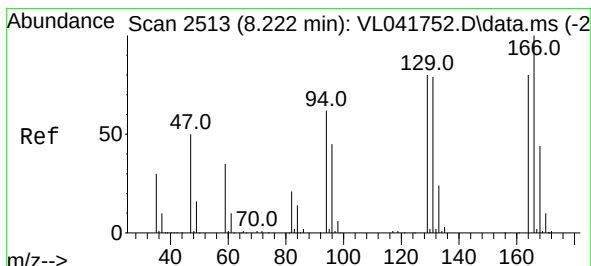
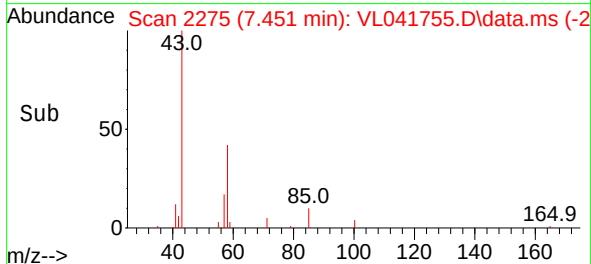
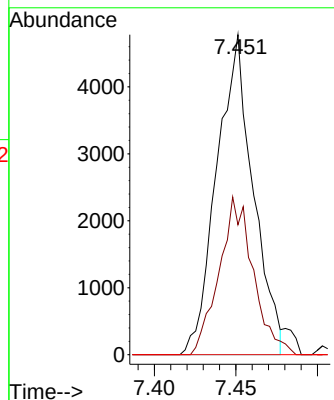
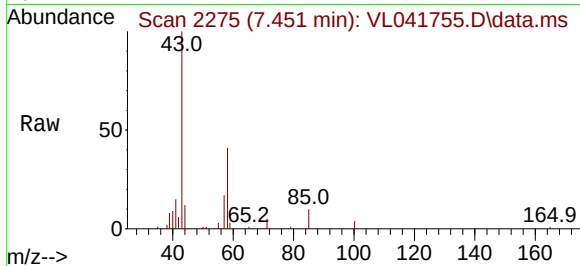




#51
2-Hexanone
Concen: 0.468 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

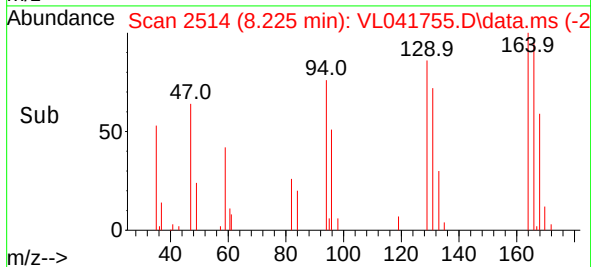
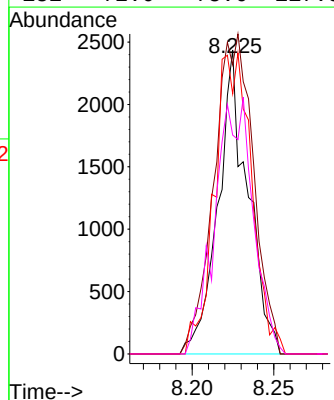
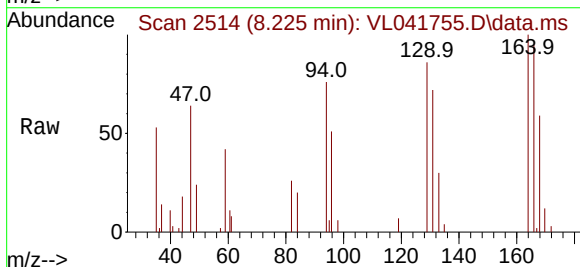
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

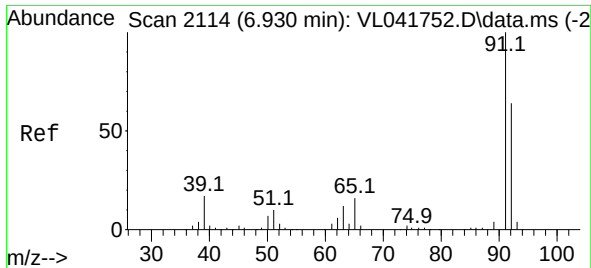
Tgt Ion: 43 Resp: 7412
Ion Ratio Lower Upper
43 100
58 46.2 36.6 55.0
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.450 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion: 164 Resp: 3091
Ion Ratio Lower Upper
164 100
166 95.1 99.8 149.6#
129 85.6 79.6 119.4
131 72.0 78.6 117.8#





#53

Toluene

Concen: 0.504 ppbv

RT: 6.933 min Scan# 2114

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

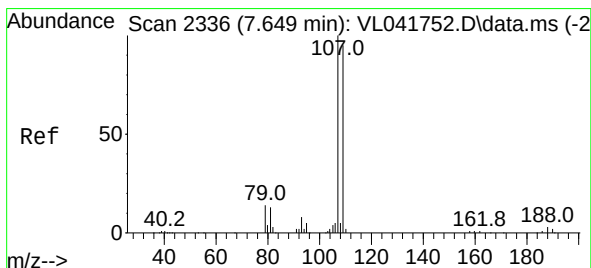
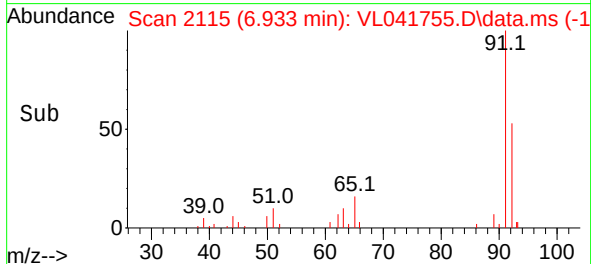
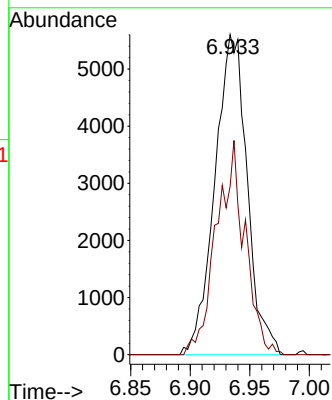
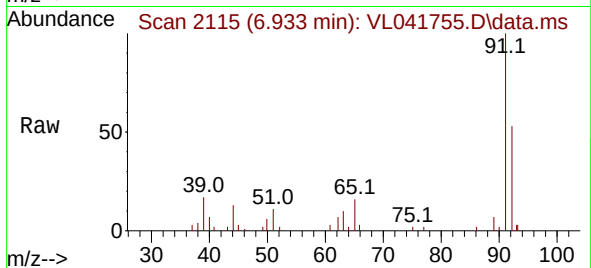
VSTDICC0.5

Tgt Ion: 91 Resp: 10554

Ion Ratio Lower Upper

91 100

92 59.2 47.9 71.9



#54

1,2-Dibromoethane

Concen: 0.287 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.003 min

Lab File: VL041755.D

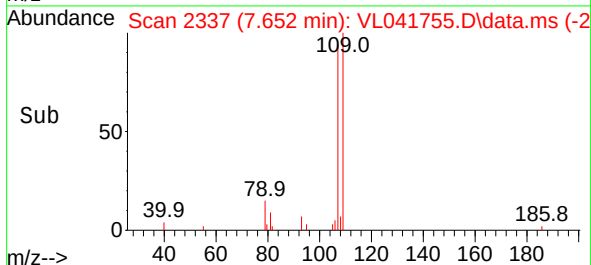
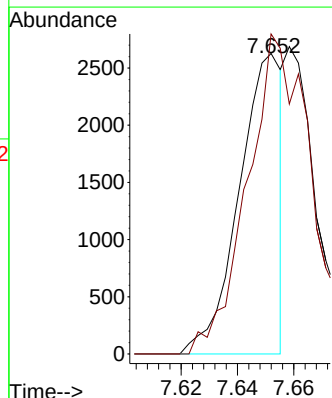
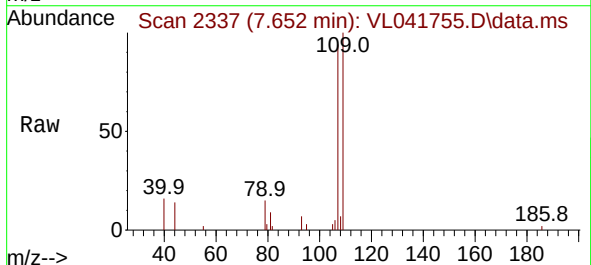
Acq: 16 Dec 2024 15:05

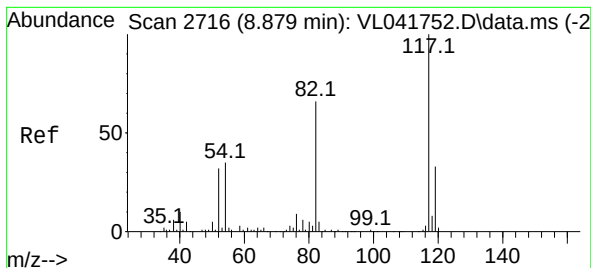
Tgt Ion: 107 Resp: 2762

Ion Ratio Lower Upper

107 100

109 106.5 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

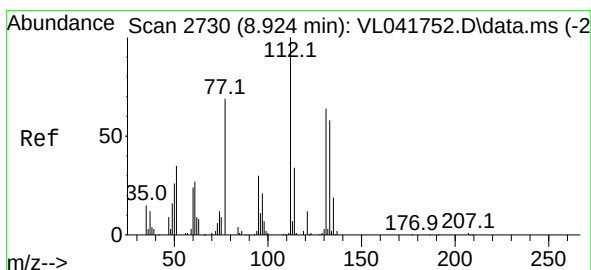
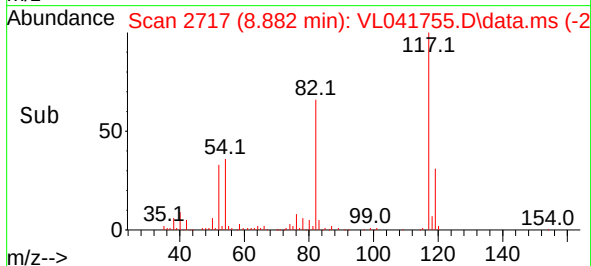
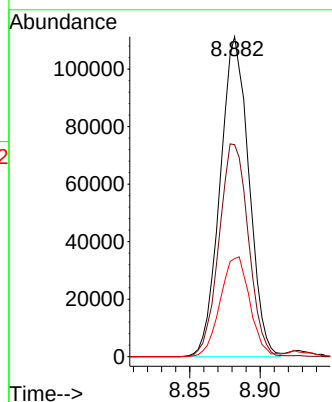
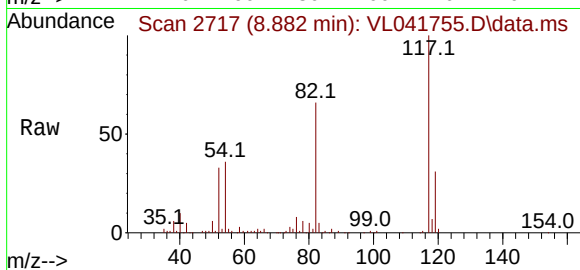
Tgt Ion:117 Resp: 158571

Ion Ratio Lower Upper

117 100

82 68.1 53.8 80.8

119 33.6 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 0.212 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

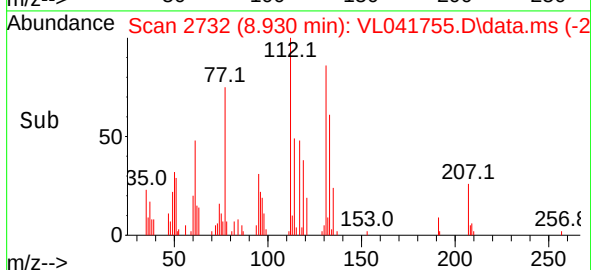
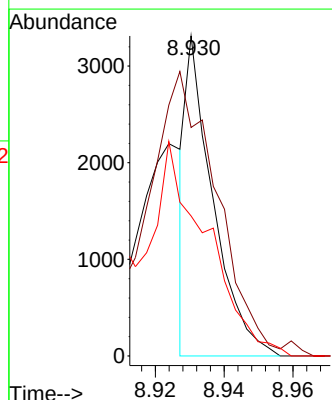
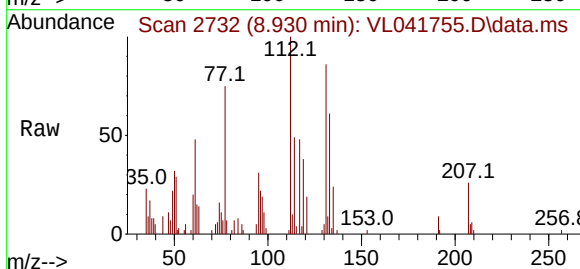
Tgt Ion:131 Resp: 1785

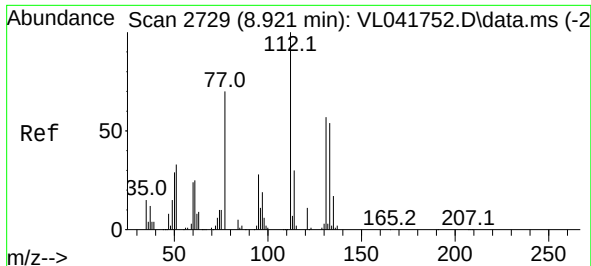
Ion Ratio Lower Upper

131 100

133 238.0 76.8 115.2#

119 0.0 49.0 73.6#





#57

Chlorobenzene

Concen: 0.263 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

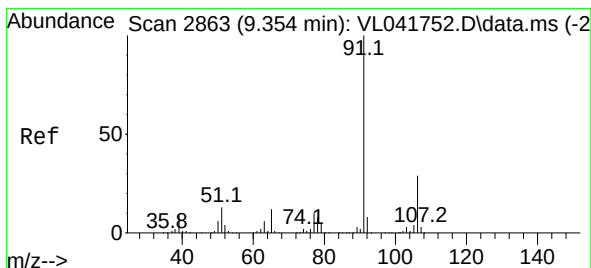
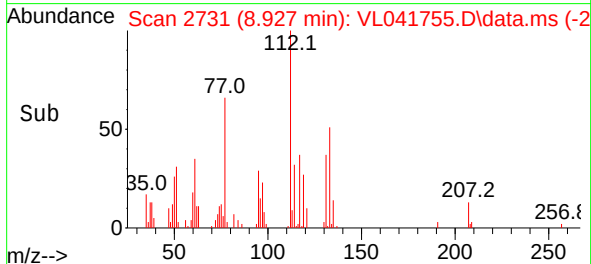
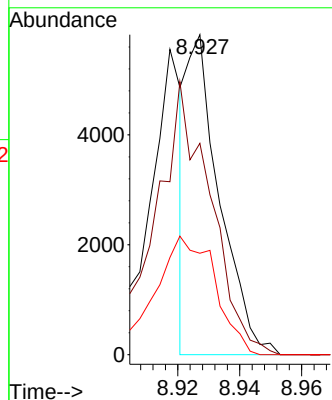
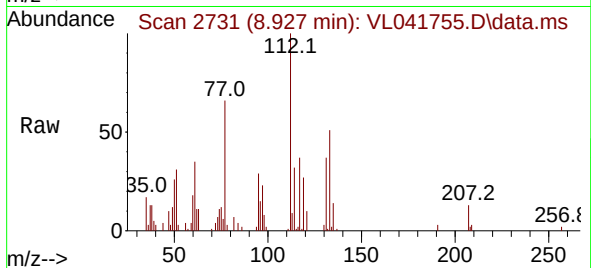
Tgt Ion:112 Resp: 4266

Ion Ratio Lower Upper

112 100

77 66.1 57.4 86.0

114 31.7 27.4 33.4



#58

Ethyl Benzene

Concen: 0.470 ppbv

RT: 9.358 min Scan# 2864

Delta R.T. 0.003 min

Lab File: VL041755.D

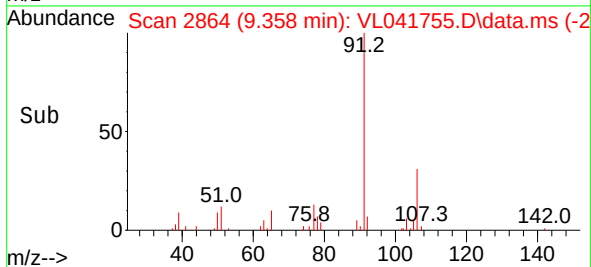
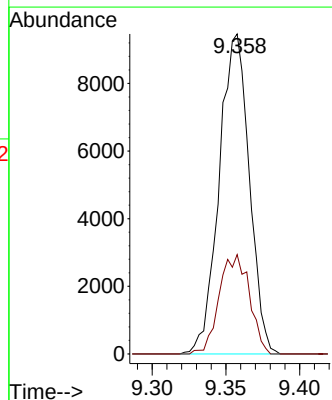
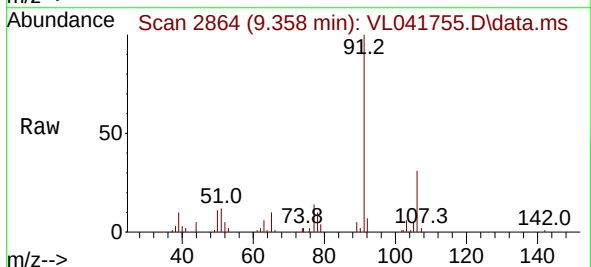
Acq: 16 Dec 2024 15:05

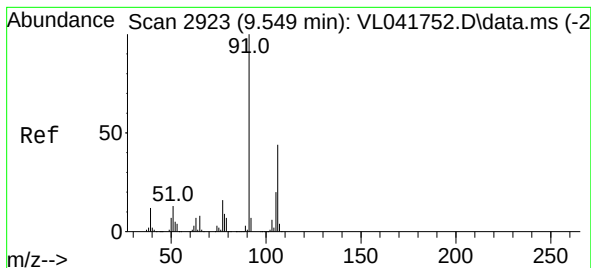
Tgt Ion: 91 Resp: 13428

Ion Ratio Lower Upper

91 100

106 31.0 23.5 35.3





#59

m/p-Xylene

Concen: 0.461 ppbv

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

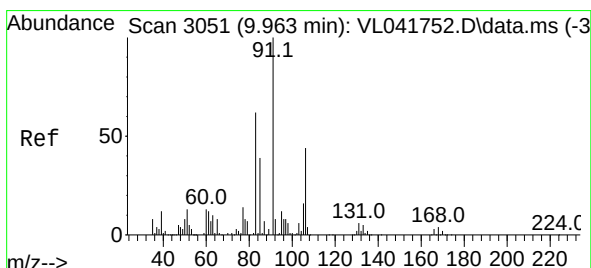
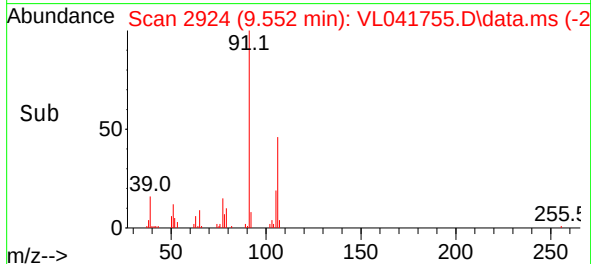
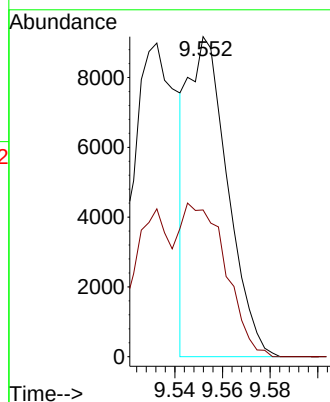
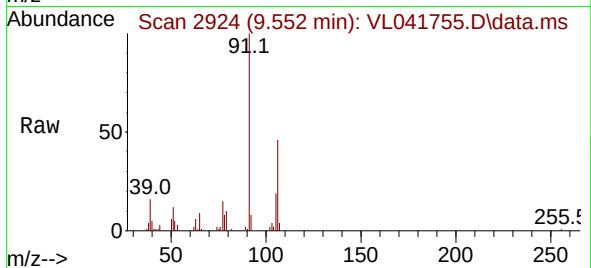
VSTDIC0.5

Tgt Ion: 91 Resp: 10592

Ion Ratio Lower Upper

91 100

106 100.0 0.0 0.0#



#60

o-Xylene

Concen: 0.476 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041755.D

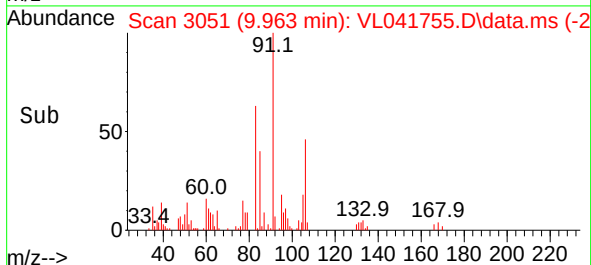
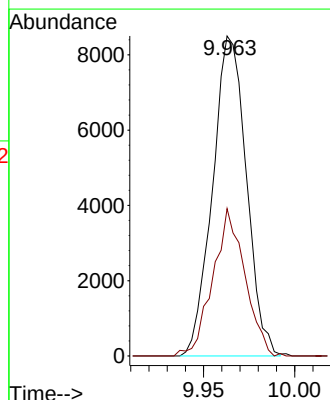
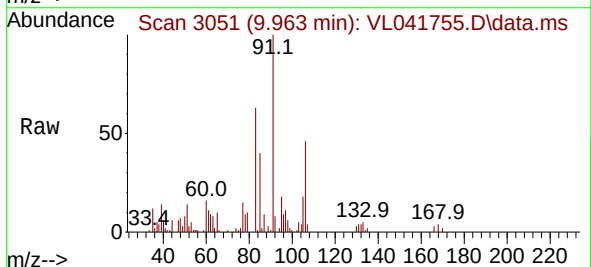
Acq: 16 Dec 2024 15:05

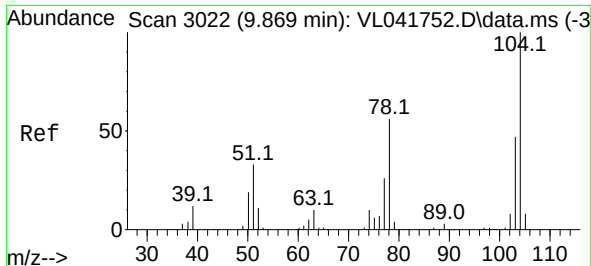
Tgt Ion: 91 Resp: 10954

Ion Ratio Lower Upper

91 100

106 43.7 21.1 63.4

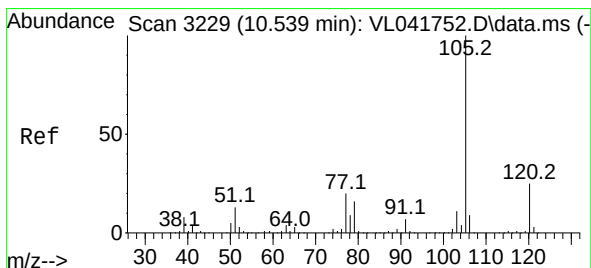
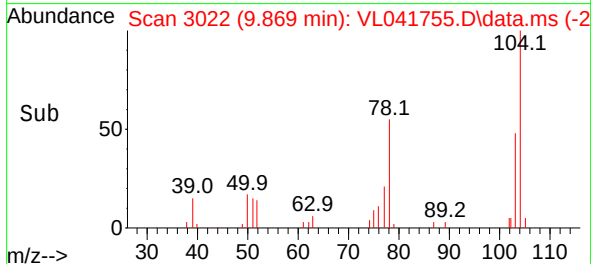
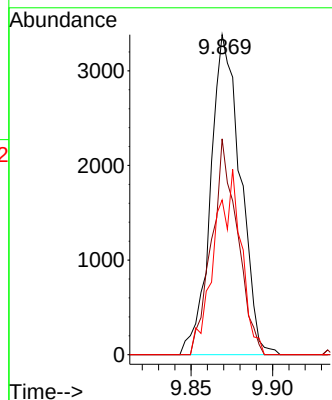
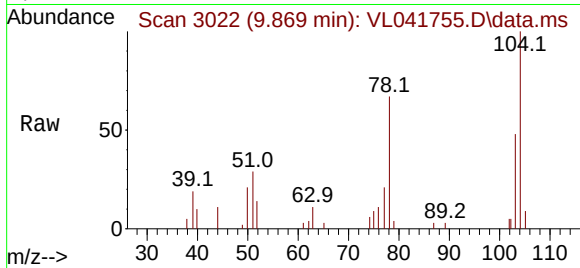




#61
Styrene
Concen: 0.433 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

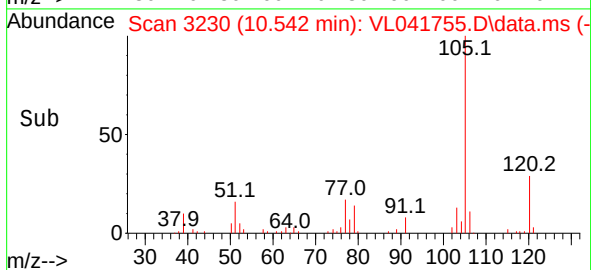
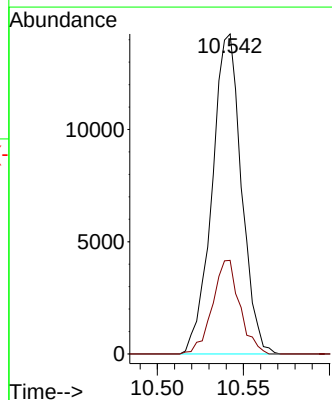
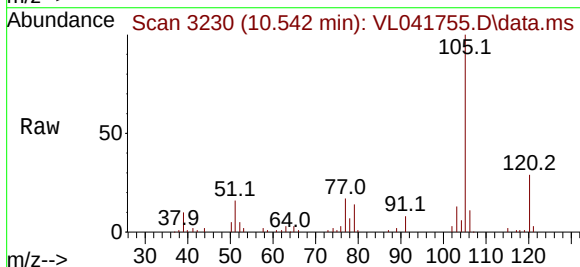
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

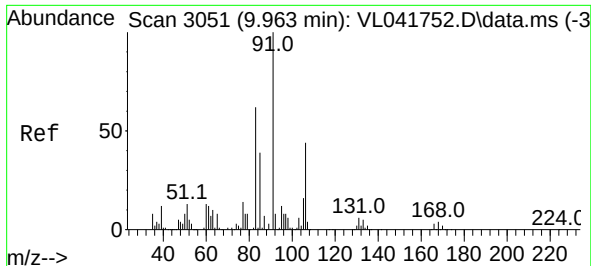
Tgt Ion:104 Resp: 4314
Ion Ratio Lower Upper
104 100
78 58.1 43.8 65.6
103 51.9 37.8 56.6



#62
Isopropylbenzene
Concen: 0.490 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion:105 Resp: 16953
Ion Ratio Lower Upper
105 100
120 27.1 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.525 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

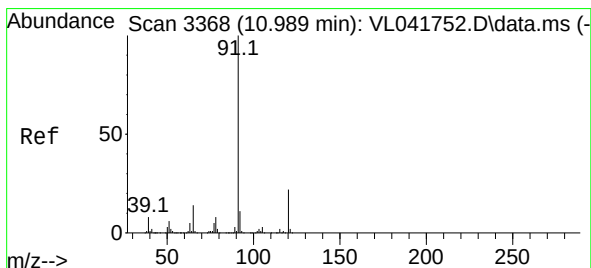
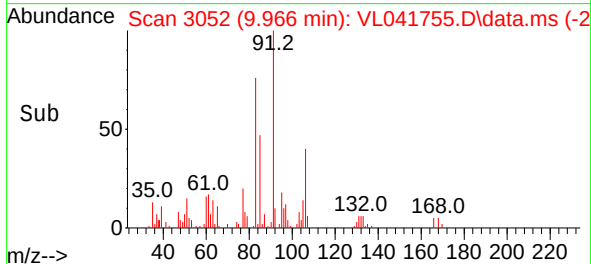
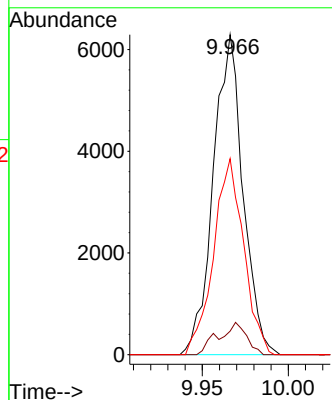
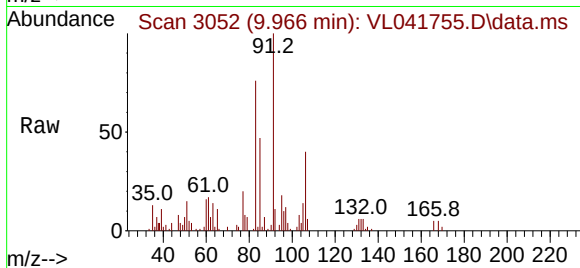
Tgt Ion: 83 Resp: 7559

Ion Ratio Lower Upper

83 100

131 9.5 4.9 14.7

85 62.2 32.0 96.2



#64

n-propylbenzene

Concen: 0.472 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL041755.D

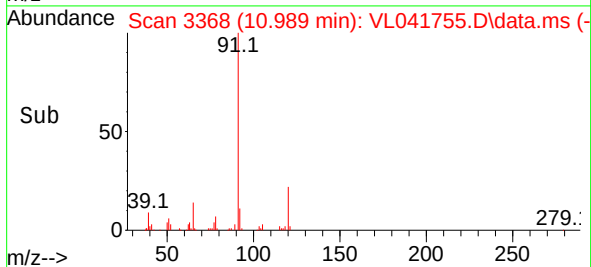
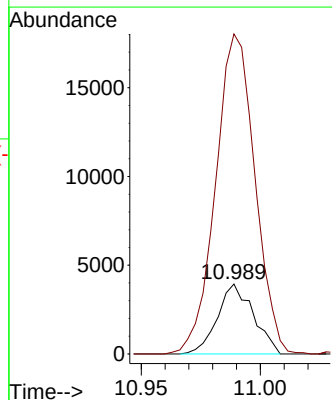
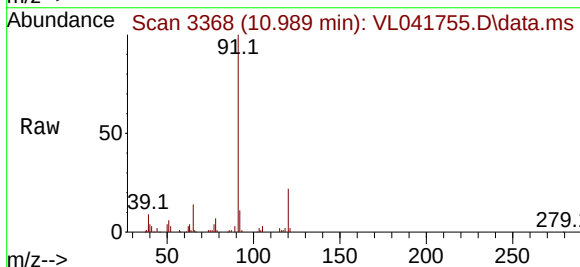
Acq: 16 Dec 2024 15:05

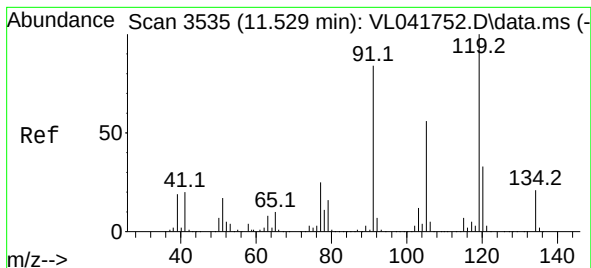
Tgt Ion:120 Resp: 4126

Ion Ratio Lower Upper

120 100

91 504.6 387.3 580.9





#65

tert-Butylbenzene

Concen: 0.499 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

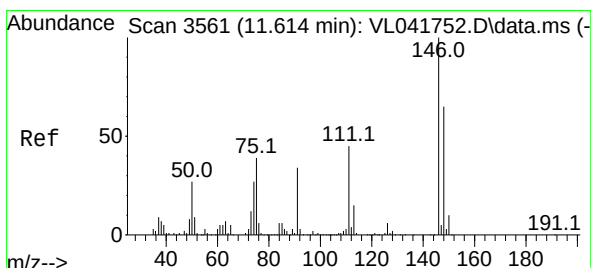
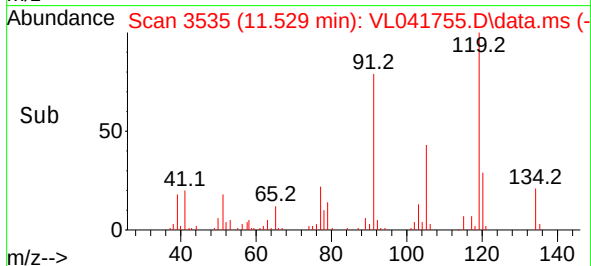
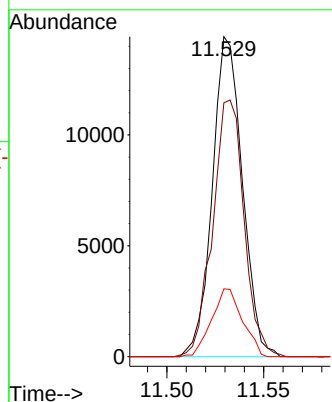
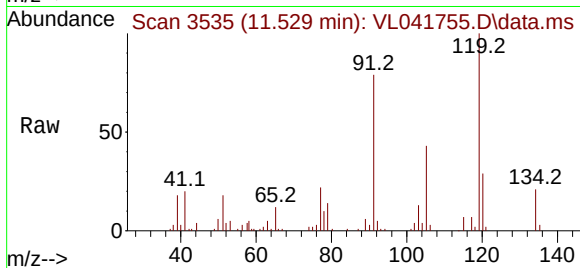
Tgt Ion:119 Resp: 15569

Ion Ratio Lower Upper

119 100

91 83.6 67.0 100.4

134 21.8 16.5 24.7



#66

Benzyl Chloride

Concen: 0.211 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

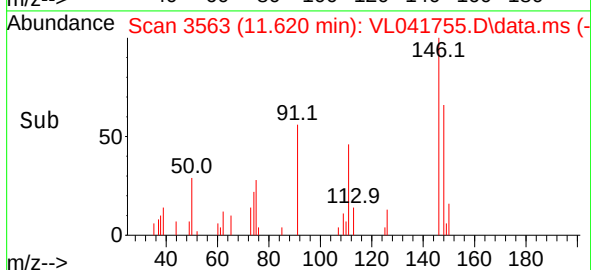
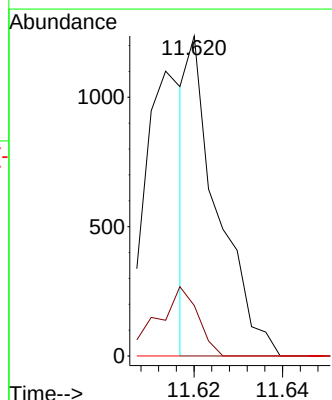
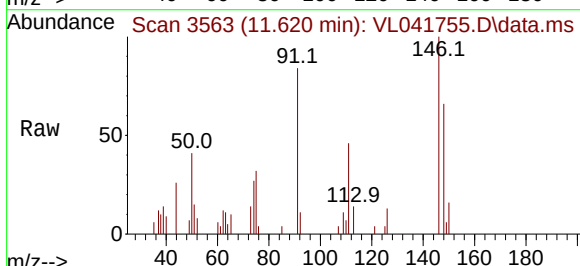
Tgt Ion: 91 Resp: 580

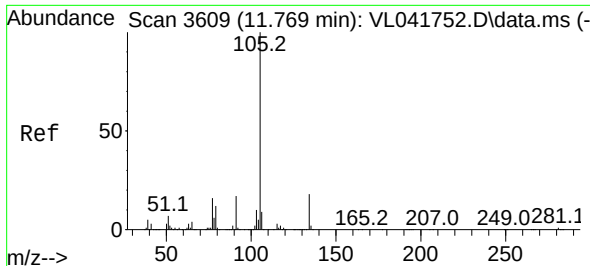
Ion Ratio Lower Upper

91 100

126 29.1 13.9 20.9#

128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.492 ppbv

RT: 11.769 min Scan# 3179

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

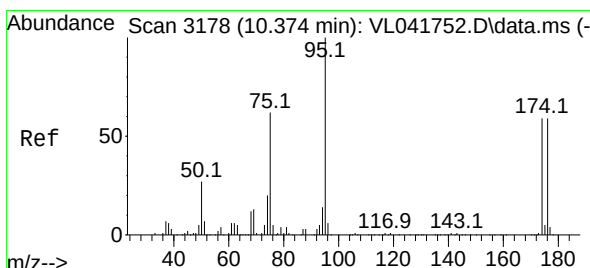
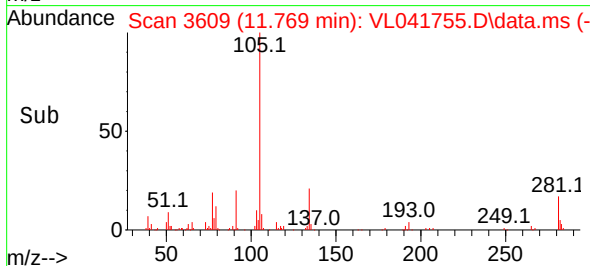
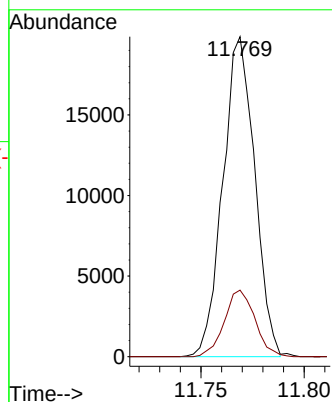
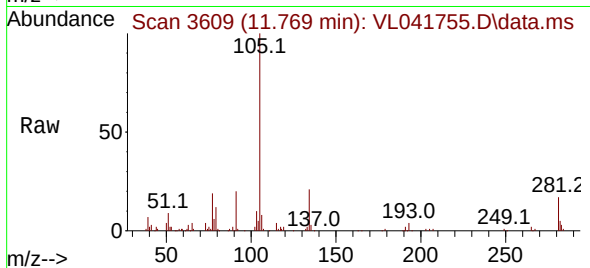
VSTDIC0.5

Tgt Ion:105 Resp: 21263

Ion Ratio Lower Upper

105 100

134 20.1 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.010 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

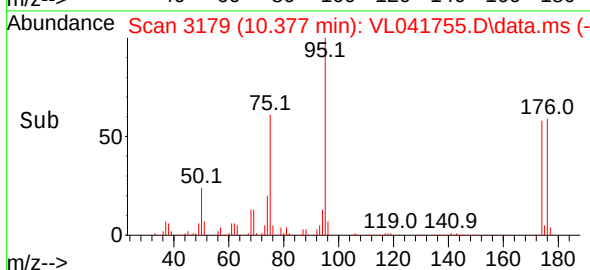
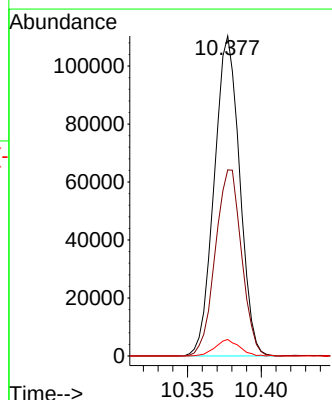
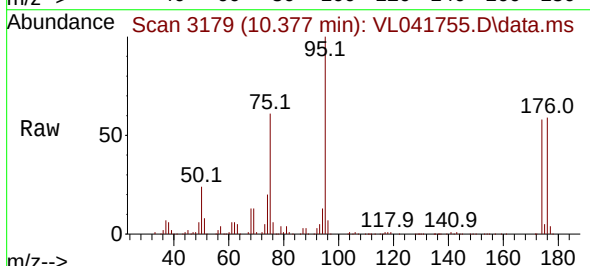
Tgt Ion: 95 Resp: 132273

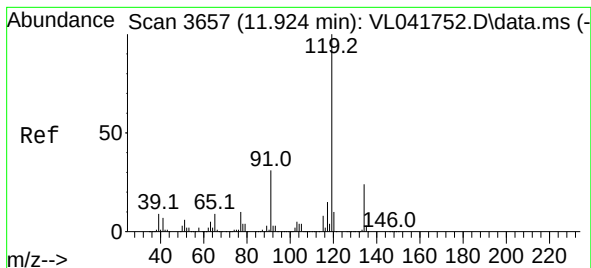
Ion Ratio Lower Upper

95 100

174 60.1 47.6 71.4

175 4.9 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.479 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

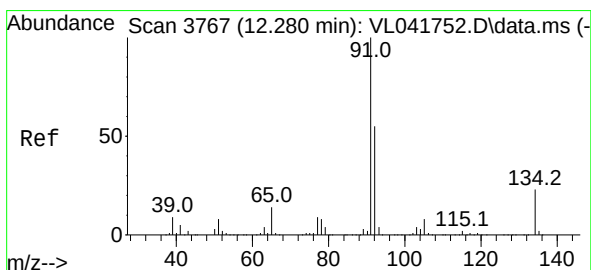
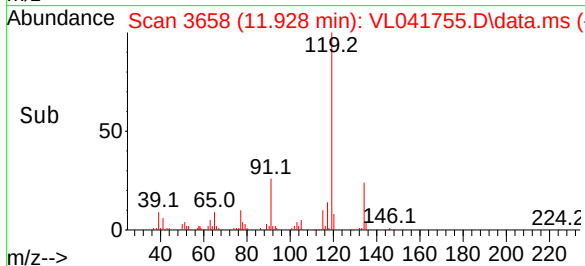
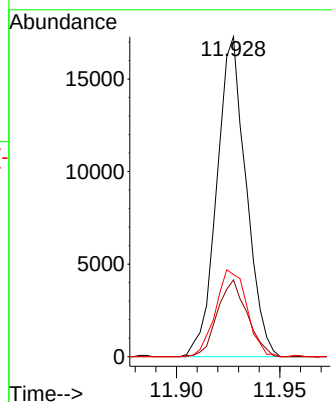
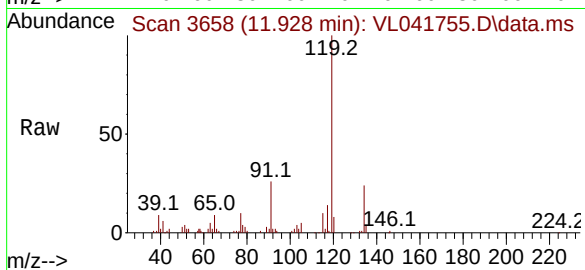
Tgt Ion:119 Resp: 17041

Ion Ratio Lower Upper

119 100

134 24.5 19.6 29.4

91 29.2 24.4 36.6



#70

n-Butylbenzene

Concen: 0.456 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

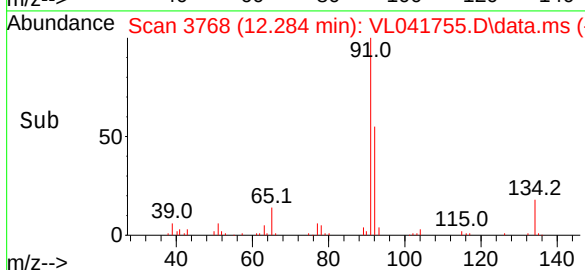
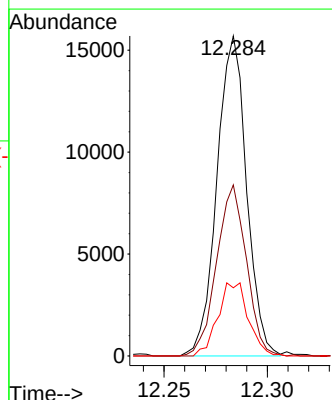
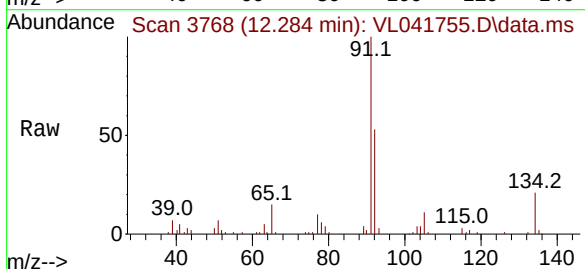
Tgt Ion: 91 Resp: 15671

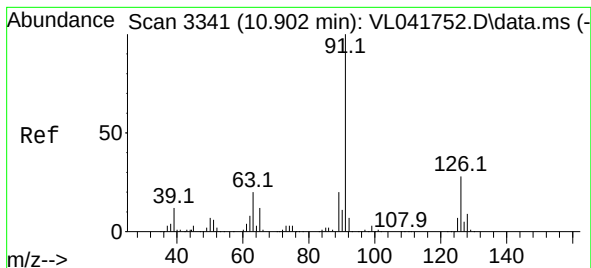
Ion Ratio Lower Upper

91 100

92 53.7 43.2 64.8

134 23.5 18.2 27.4





#71

2-Chlorotoluene

Concen: 0.492 ppbv

RT: 10.902 min Scan# 3411

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

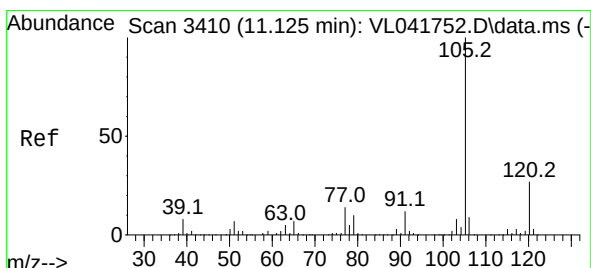
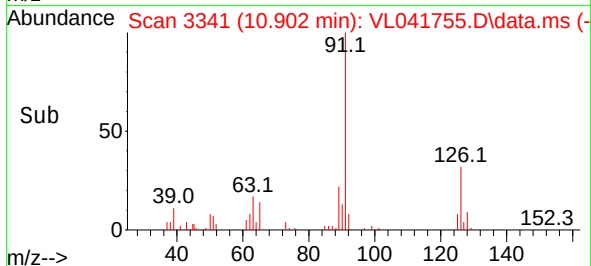
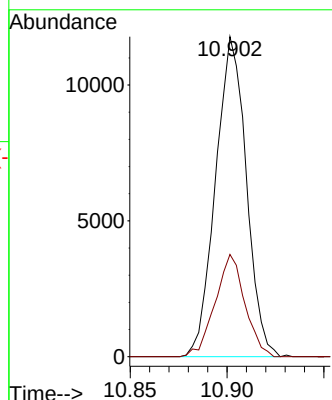
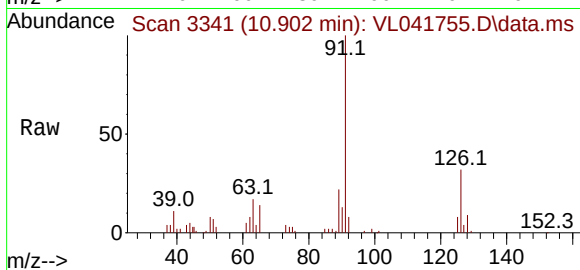
VSTDICC0.5

Tgt Ion: 91 Resp: 13000

Ion Ratio Lower Upper

91 100

126 30.8 11.6 46.4



#72

4-Ethyltoluene

Concen: 0.491 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:105 Resp: 13324

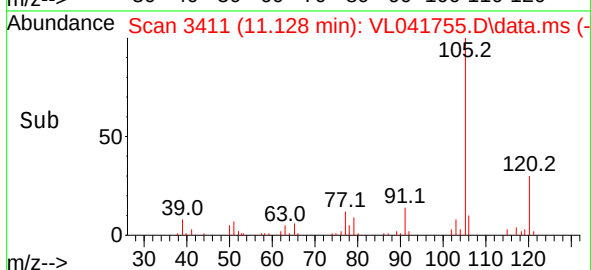
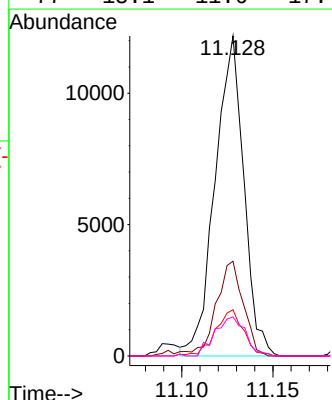
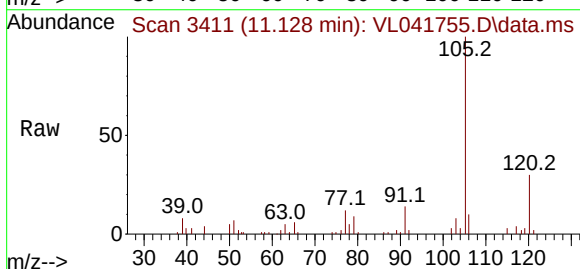
Ion Ratio Lower Upper

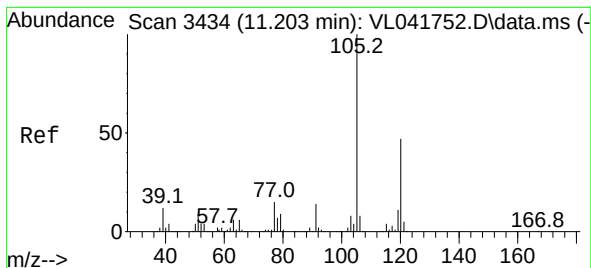
105 100

120 28.7 23.3 34.9

91 14.1 10.9 16.3

77 13.1 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.466 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

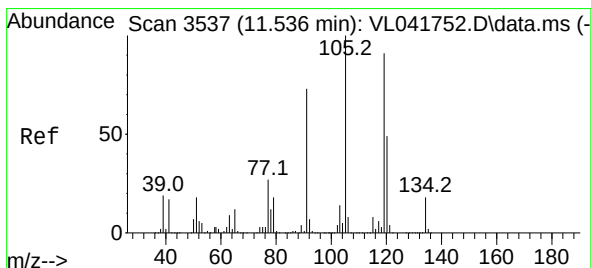
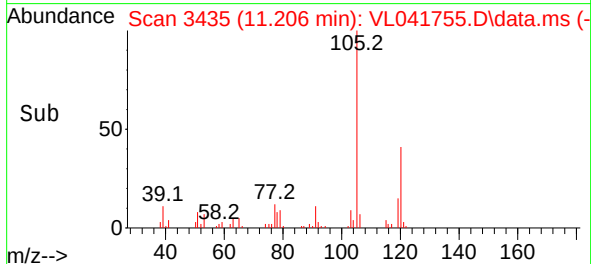
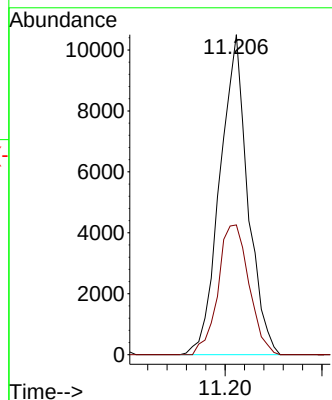
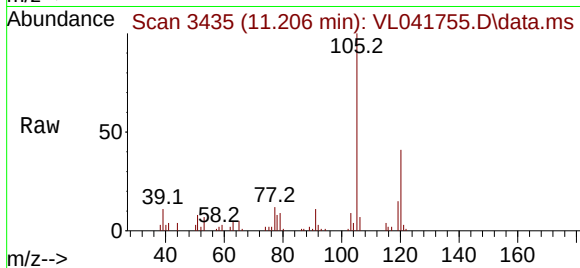
VSTDIC0.5

Tgt Ion:105 Resp: 10497

Ion Ratio Lower Upper

105 100

120 40.6 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 0.457 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Tgt Ion:105 Resp: 11070

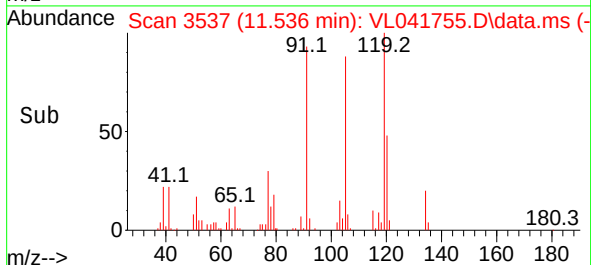
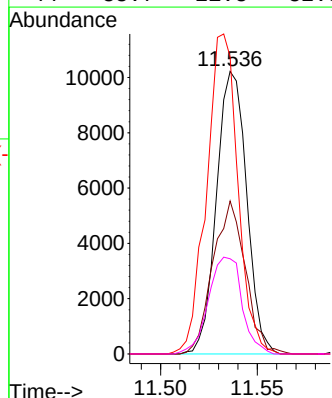
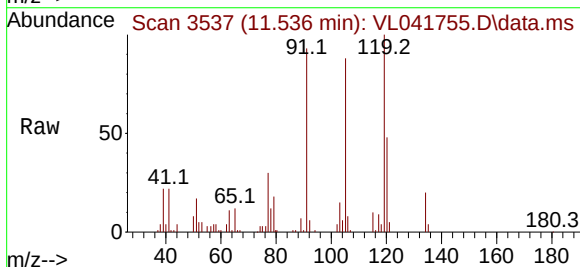
Ion Ratio Lower Upper

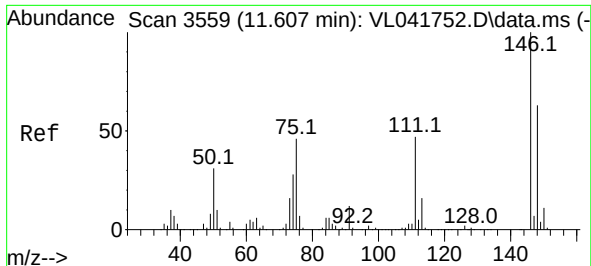
105 100

120 54.1 39.0 58.4

91 105.1 58.1 87.1#

77 33.7 21.8 32.8#





#75

1,3-Dichlorobenzene

Concen: 0.525 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

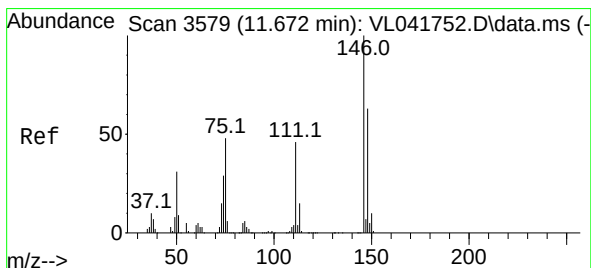
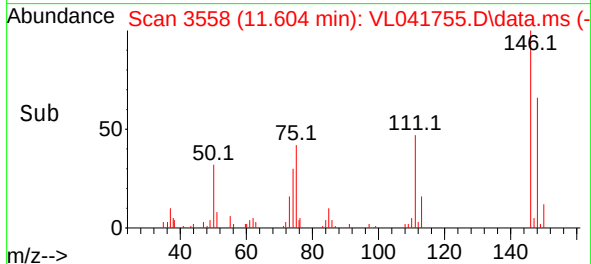
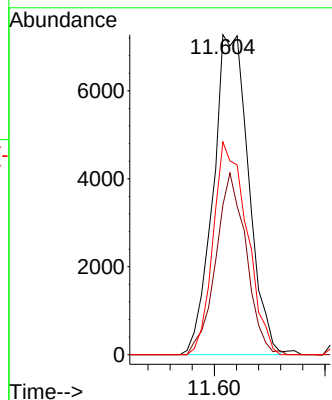
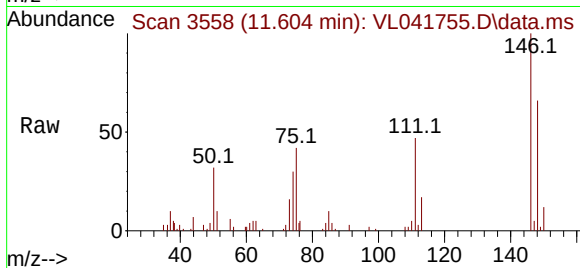
Tgt Ion:146 Resp: 8107

Ion Ratio Lower Upper

146 100

111 48.6 23.4 70.3

148 63.1 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 0.517 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

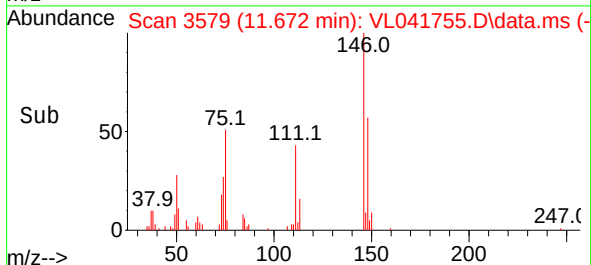
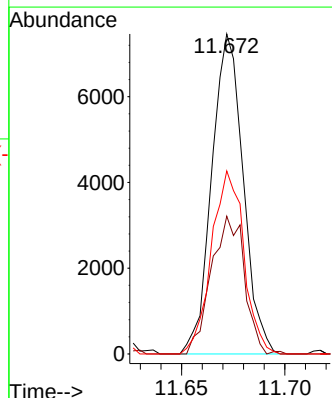
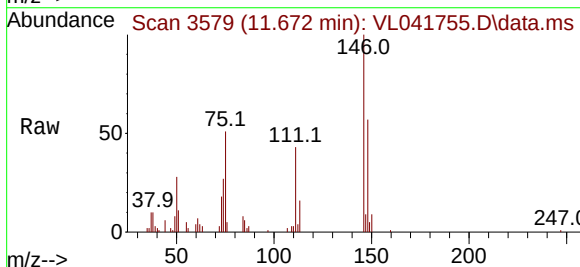
Tgt Ion:146 Resp: 7893

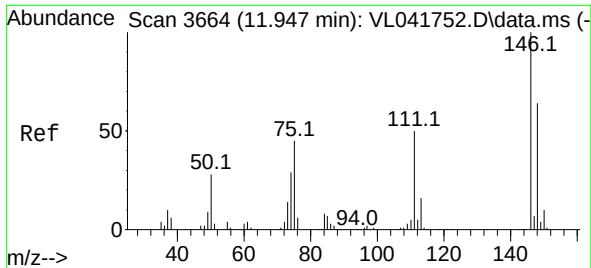
Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

148 58.9 31.4 94.0

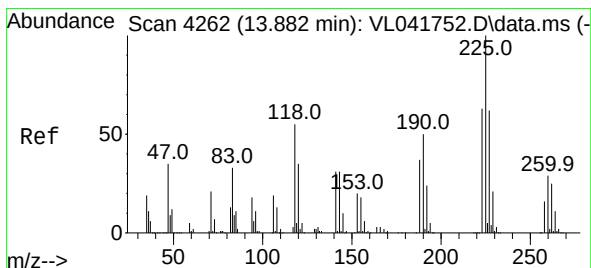
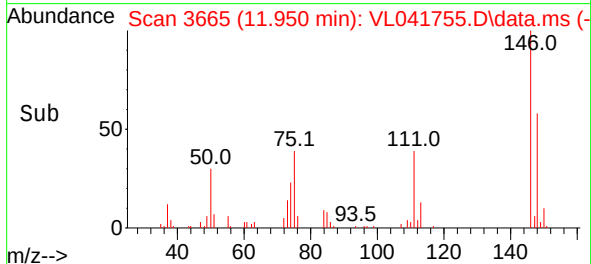
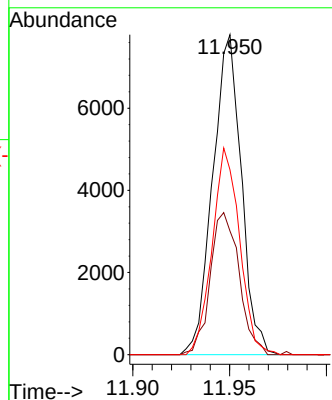
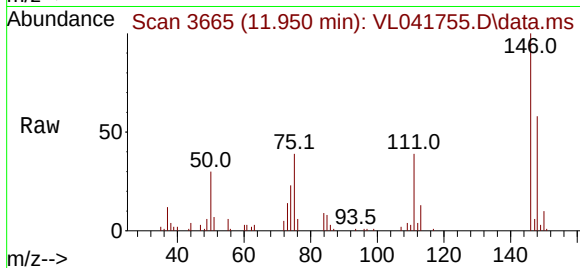




#77
1,2-Dichlorobenzene
Concen: 0.538 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

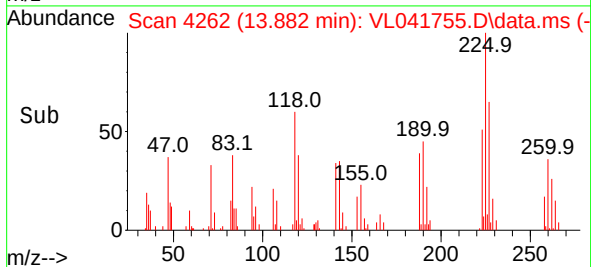
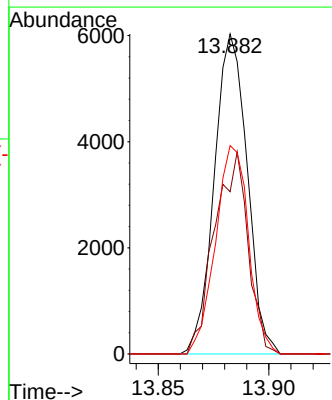
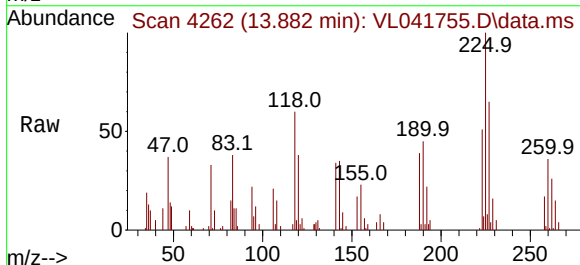
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

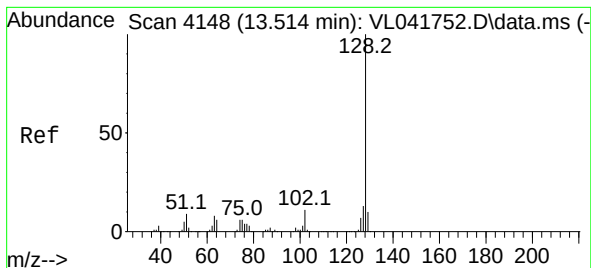
Tgt Ion:146 Resp: 7997
Ion Ratio Lower Upper
146 100
111 45.2 24.8 74.3
148 62.0 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 0.565 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Tgt Ion:225 Resp: 6232
Ion Ratio Lower Upper
225 100
223 64.1 50.5 75.7
227 65.3 50.3 75.5





#79

Naphthalene

Concen: 0.436 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

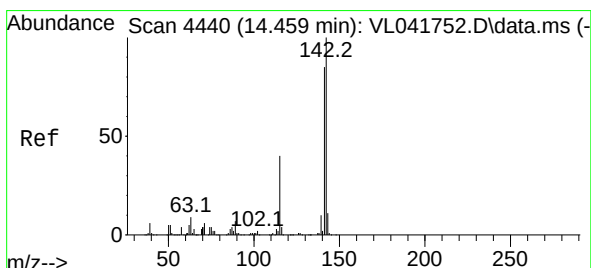
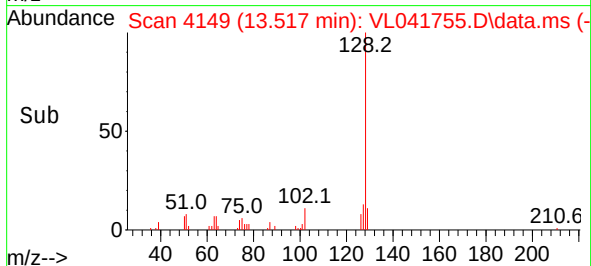
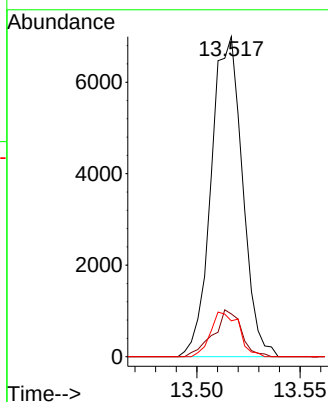
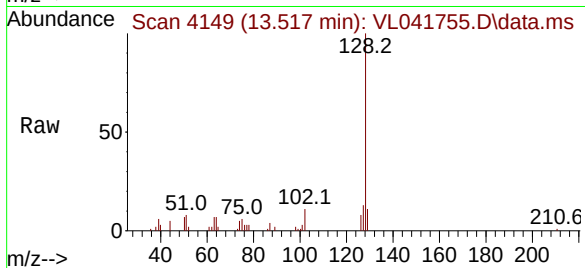
Tgt Ion:128 Resp: 7360

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

129 11.2 8.2 12.4



#80

Naphthalene, 2-methyl-

Concen: 0.143 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

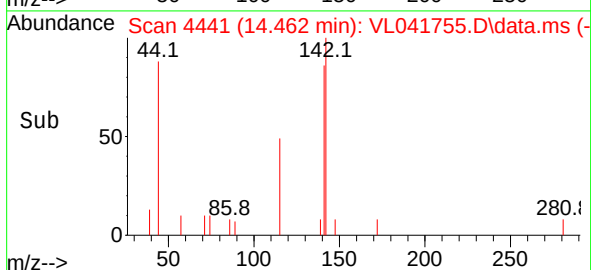
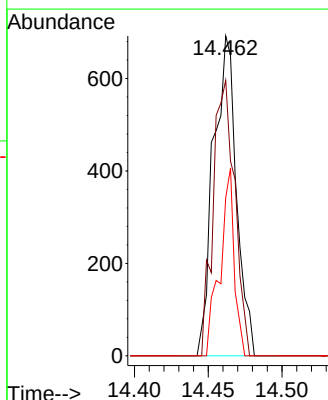
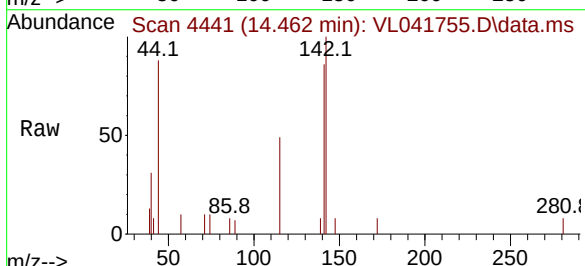
Tgt Ion:142 Resp: 748

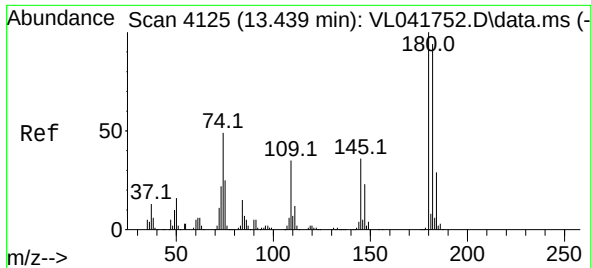
Ion Ratio Lower Upper

142 100

141 80.9 68.4 102.6

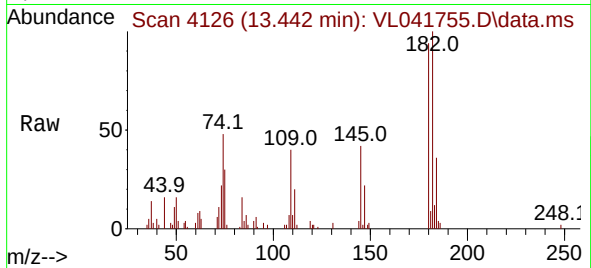
115 36.4 32.5 48.7



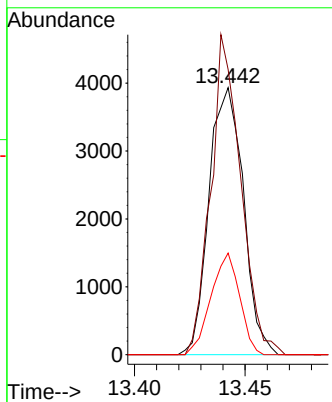
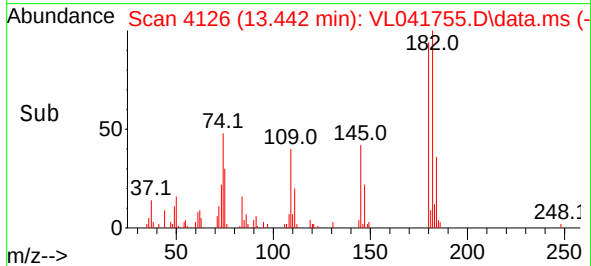


#81
 1,2,4-Trichlorobenzene
 Concen: 0.460 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	4248
Ion	Ratio	Lower	Upper
180	100		
182	104.5	77.0	115.6
184	31.7	23.8	35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041756.D
 Acq On : 16 Dec 2024 15:37
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Dec 19 06:15:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	65926	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	177964	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158649	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	131540	9.950	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1430	0.122	ppbv	96
3) Chlorodifluoromethane	1.476	51	1363	0.127	ppbv	95
4) Chloromethane	1.535	50	482	0.105	ppbv #	84
5) Vinyl Chloride	1.580	62	444	0.096	ppbv #	78
6) Bromomethane	1.670	94	174	0.080	ppbv #	79
7) Chloroethane	1.706	64	220	0.122	ppbv #	64
8) Dichlorotetrafluoroethane	1.554	85	1094	0.104	ppbv	98
9) Propene	1.483	41	740	0.159	ppbv #	78
10) Heptane	4.988	43	527	0.044	ppbv #	29
11) Trichlorofluoromethane	1.878	101	1346	0.108	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.143	101	1007	0.106	ppbv	92
13) Ethanol	1.719	45	183	0.472	ppbv	90
14) Bromoethene	1.784	108	432	0.135	ppbv #	55
15) Acetone	1.839	43	2830	0.221	ppbv	92
16) 1,3-Butadiene	1.609	39	815	0.161	ppbv	96
17) tert-Butyl alcohol	2.046	59	1498	0.118	ppbv #	89
18) 1,1-Dichloroethene	2.036	96	498	0.125	ppbv #	93
19) Isopropyl Alcohol	1.887	45	3007	0.391	ppbv #	36
20) Methylene Chloride	2.065	84	925	0.253	ppbv #	73
21) Allyl Chloride	2.098	41	854	0.123	ppbv #	56
22) trans-1,2-Dichloroethene	2.344	96	476	0.105	ppbv #	60
23) Vinyl Acetate	2.460	43	1339	0.240	ppbv #	85
24) 1,1-Dichloroethane	2.408	63	1044	0.113	ppbv #	88
25) Ethyl Acetate	2.842	43	2227	0.093	ppbv #	92
26) Hexane	2.829	57	1053	0.116	ppbv	95
27) Carbon Disulfide	2.149	76	729	0.089	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	774	0.105	ppbv #	55
29) Chloroform	2.852	83	1515	0.110	ppbv	86
30) Cyclohexane	3.865	84	377	0.049	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	940	0.100	ppbv	85
32) 1,1,1-Trichloroethane	3.370	97	1393	0.101	ppbv	97
34) 2-Butanone	2.564	43	1888	0.132	ppbv	96
35) Carbon Tetrachloride	3.771	117	1170	0.093	ppbv #	84
36) Benzene	3.658	78	976	0.053	ppbv #	84
37) 1,2-Dichloroethane	3.218	62	1264	0.110	ppbv #	92
38) Trichloroethene	4.548	130	339	0.044	ppbv #	38
39) 1,2-Dichloropropane	3.959	63	48044	7.216	ppbv #	18
40) 1,4-Dioxane	4.622	88	254	0.078	ppbv #	2
41) Tetrahydrofuran	3.069	42	593	0.074	ppbv #	76
42) Bromodichloromethane	4.490	83	756	0.057	ppbv #	66
43) Methyl Methacrylate	4.888	69	197	0.028	ppbv #	1
44) 2,2,4-Trimethylpentane	4.651	57	1584	0.050	ppbv #	18
45) t-1,3-Dichloropropene	6.419	75	247	0.034	ppbv #	74

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041756.D
 Acq On : 16 Dec 2024 15:37
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

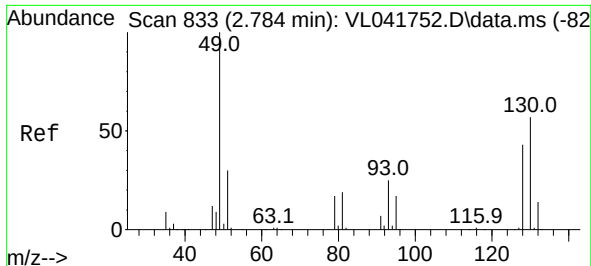
Quant Time: Dec 19 06:15:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	315	0.034	ppbv #	63
47) 1,1,2-Trichloroethane	6.590	97	525	0.075	ppbv #	40
48) Dibromochloromethane	7.393	129	599	0.063	ppbv	72
49) Bromoform	9.493	173	172	0.022	ppbv #	1
50) 4-Methyl-2-Pentanone	5.749	43	36	0.002	ppbv #	41
51) 2-Hexanone	7.445	43	446	0.028	ppbv #	1
52) Tetrachloroethene	8.241	164	149	0.022	ppbv #	71
53) Toluene	6.936	91	1529	0.073	ppbv #	56
54) 1,2-Dibromoethane	7.658	107	396	0.041	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	142	0.017	ppbv #	9
57) Chlorobenzene	8.927	112	2102	0.129	ppbv #	81
58) Ethyl Benzene	9.357	91	2667	0.093	ppbv	97
59) m/p-Xylene	9.555	91	1768	0.077	ppbv #	100
60) o-Xylene	9.969	91	1998	0.087	ppbv	84
61) Styrene	9.875	104	785	0.079	ppbv	96
62) Isopropylbenzene	10.545	105	3559	0.103	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	592	0.041	ppbv #	25
64) n-propylbenzene	10.989	120	754	0.086	ppbv	93
65) tert-Butylbenzene	11.533	119	2861	0.092	ppbv	99
66) Benzyl Chloride	11.617	91	154	0.056	ppbv #	66
67) sec-Butylbenzene	11.772	105	4061	0.094	ppbv	94
69) p-Isopropyltoluene	11.927	119	3070	0.086	ppbv	98
70) n-Butylbenzene	12.283	91	2829	0.082	ppbv	96
71) 2-Chlorotoluene	10.905	91	2731	0.103	ppbv	99
72) 4-Ethyltoluene	11.125	105	2197	0.081	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.206	105	2072	0.092	ppbv	92
74) 1,2,4-Trimethylbenzene	11.539	105	2190	0.090	ppbv	90
75) 1,3-Dichlorobenzene	11.607	146	1843	0.119	ppbv	90
76) 1,4-Dichlorobenzene	11.675	146	1590	0.104	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	1439	0.097	ppbv	87
78) Hexachloro-1,3-Butadiene	13.889	225	1172	0.106	ppbv	92
79) Naphthalene	13.523	128	1196	0.071	ppbv #	90
80) Naphthalene,2-methyl-	14.468	142	124	0.024	ppbv #	64
81) 1,2,4-Trichlorobenzene	13.439	180	931	0.101	ppbv	98

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

Quant Time: Dec 19 06:15:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

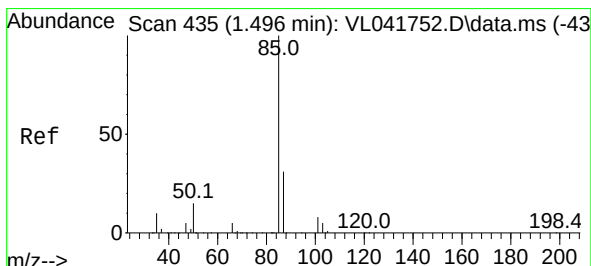
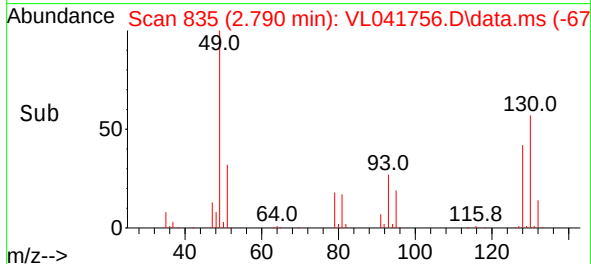
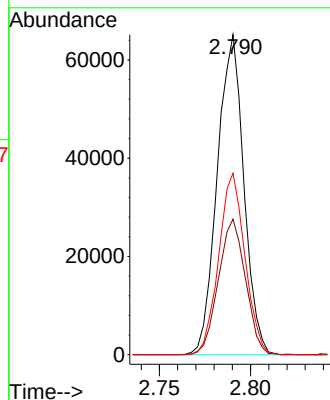
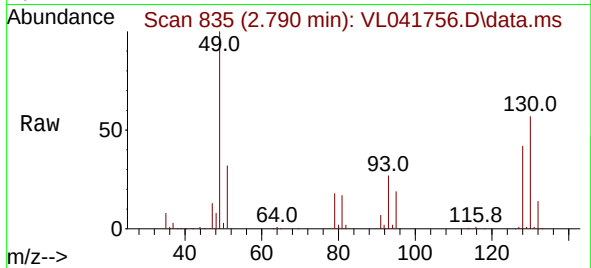




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

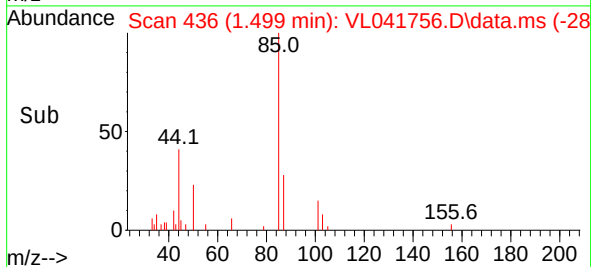
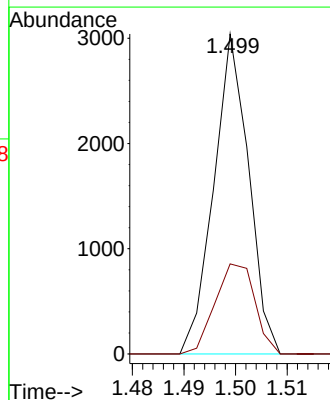
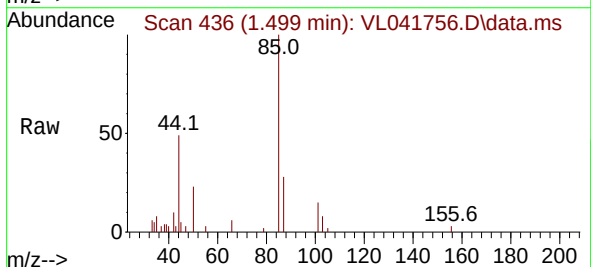
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

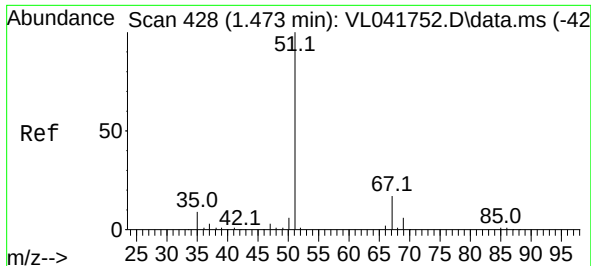
Tgt Ion: 49 Resp: 65926
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.6
130 55.9 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.122 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 85 Resp: 1430
Ion Ratio Lower Upper
85 100
87 28.2 24.5 36.7

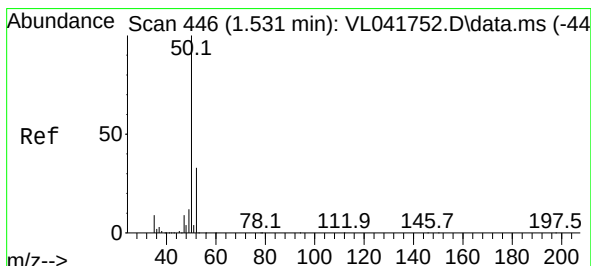
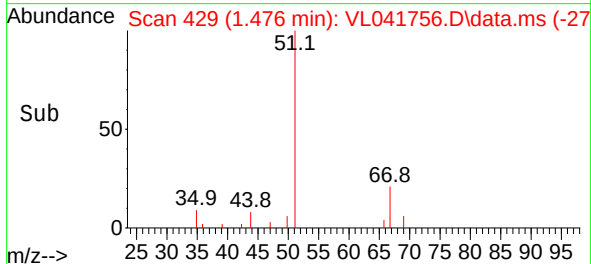
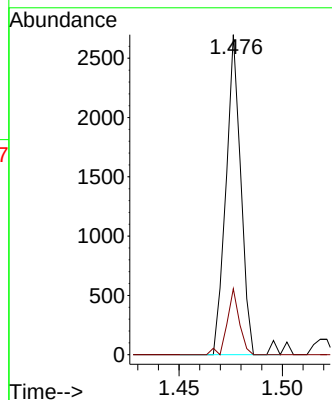
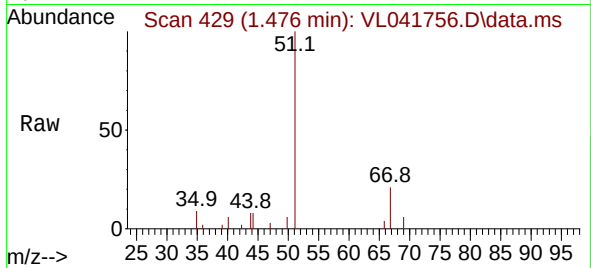




#3
Chlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

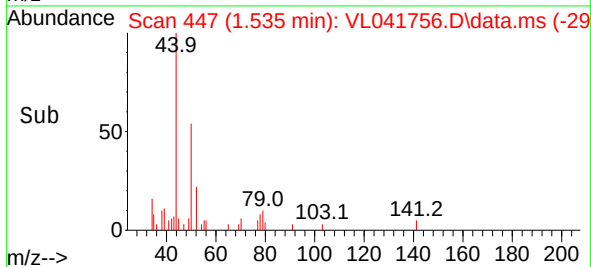
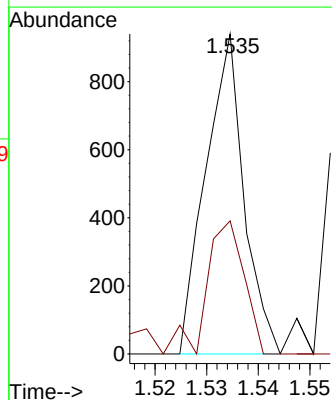
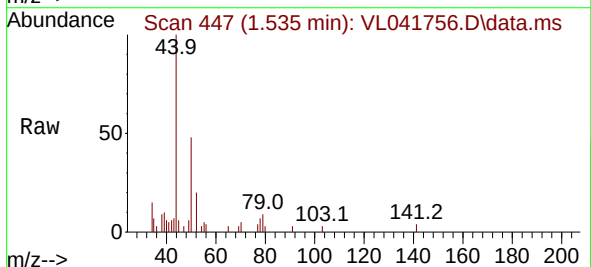
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

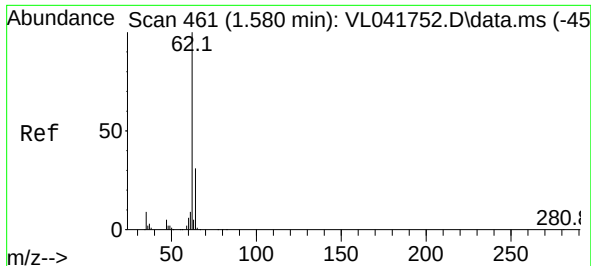
Tgt Ion: 51 Resp: 1363
Ion Ratio Lower Upper
51 100
67 16.6 15.0 22.4



#4
Chloromethane
Concen: 0.105 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 50 Resp: 482
Ion Ratio Lower Upper
50 100
52 41.6 26.2 39.2#

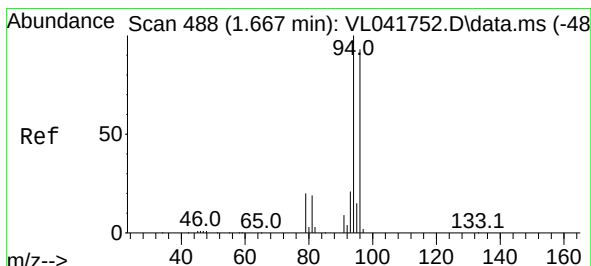
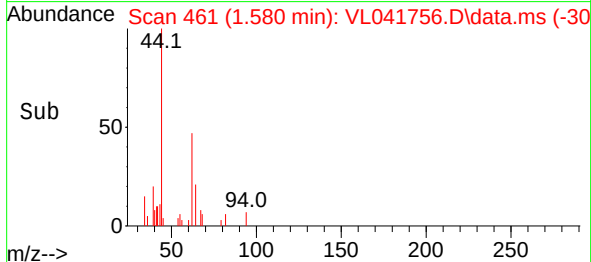
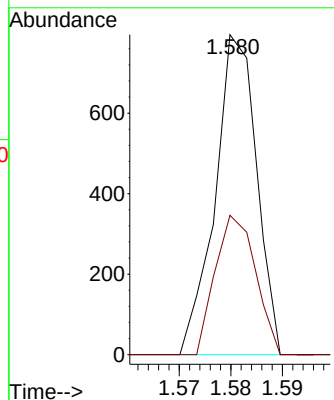
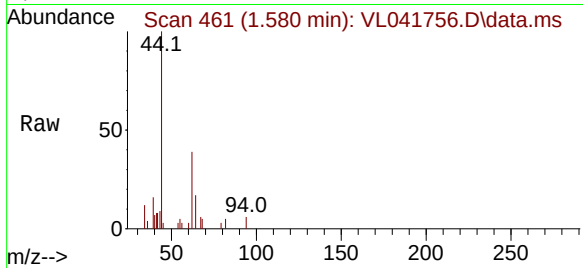




#5
 Vinyl Chloride
 Concen: 0.096 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

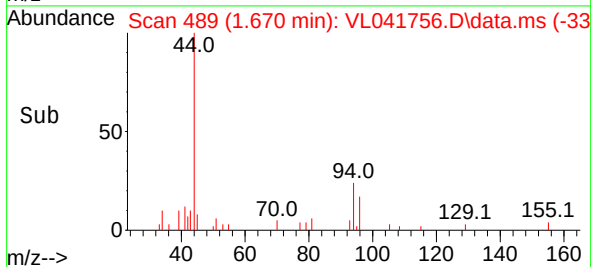
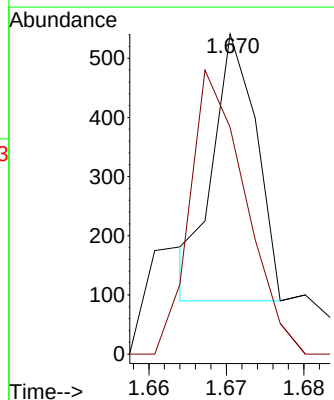
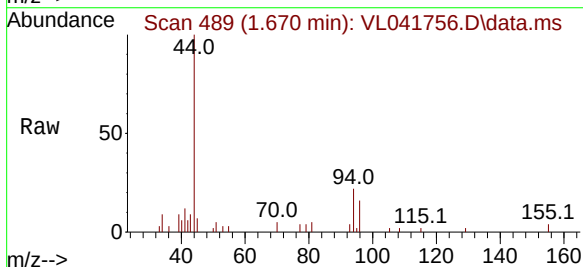
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

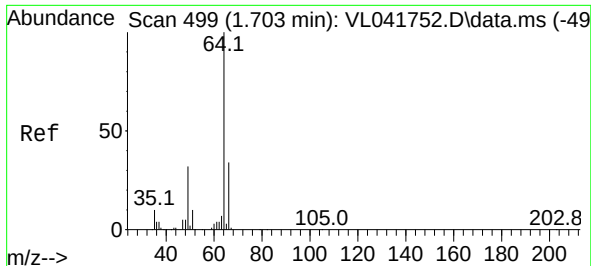
Tgt Ion: 62 Resp: 444
 Ion Ratio Lower Upper
 62 100
 64 43.5 25.1 37.7#



#6
 Bromomethane
 Concen: 0.080 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

Tgt Ion: 94 Resp: 174
 Ion Ratio Lower Upper
 94 100
 96 73.4 74.7 112.1#

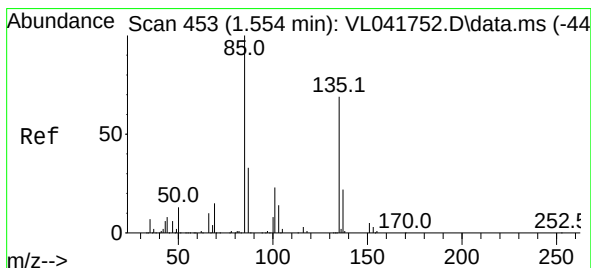
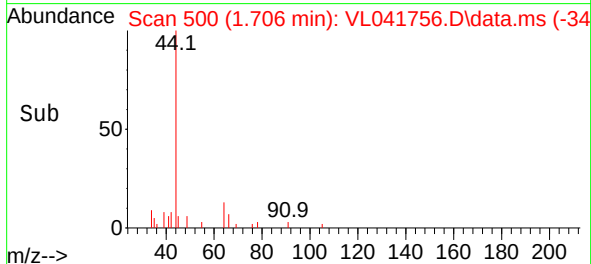
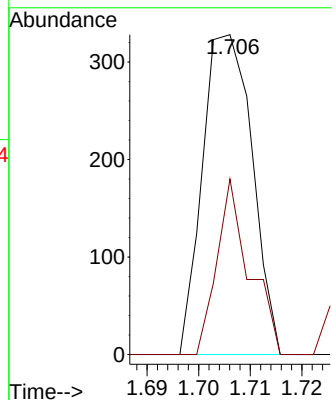
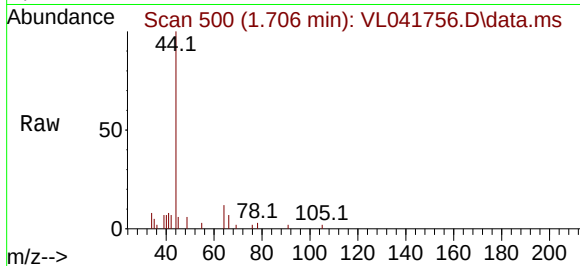




#7
Chloroethane
Concen: 0.122 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

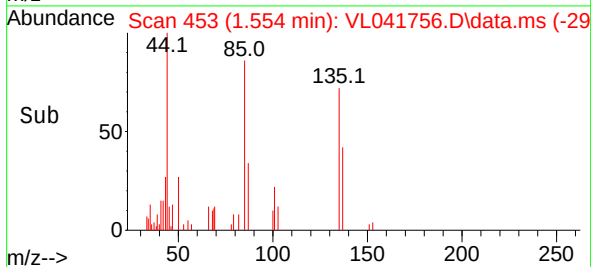
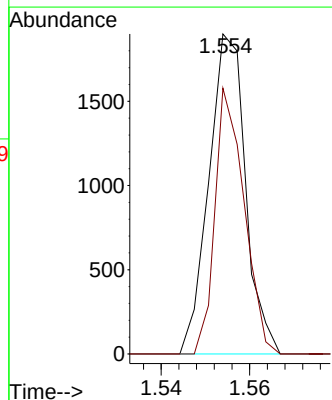
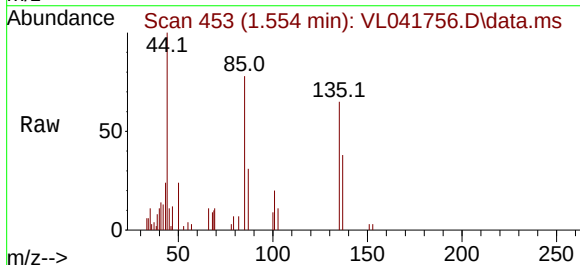
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

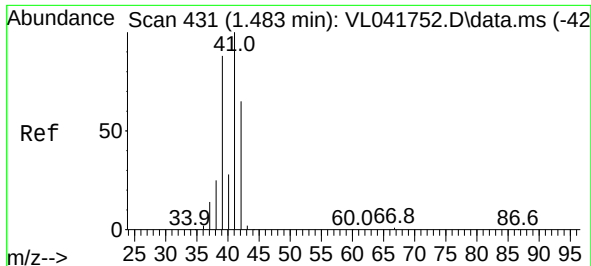
Tgt Ion: 64 Resp: 220
Ion Ratio Lower Upper
64 100
66 54.9 27.5 41.3#



#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 85 Resp: 1094
Ion Ratio Lower Upper
85 100
135 66.1 51.9 77.9





#9

Propene

Concen: 0.159 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

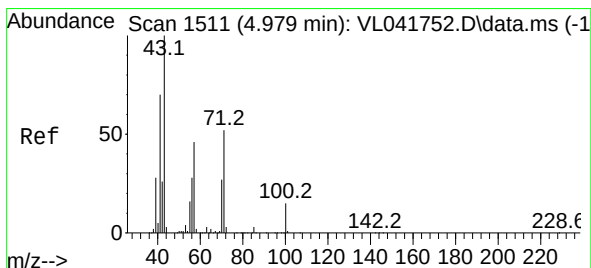
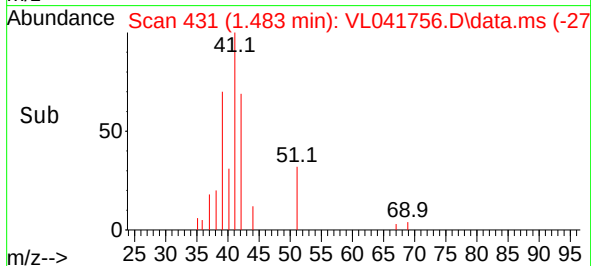
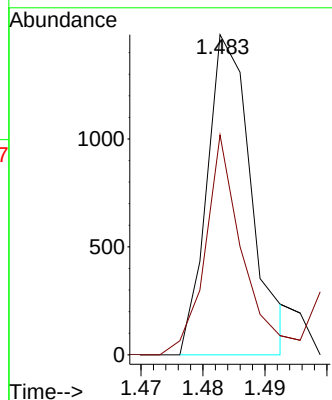
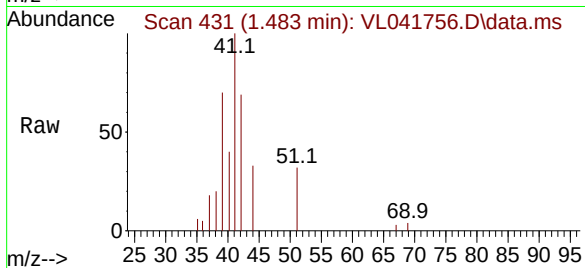
VSTDIC0.1

Tgt Ion: 41 Resp: 740

Ion Ratio Lower Upper

41 100

42 83.2 52.4 78.6#



#10

Heptane

Concen: 0.044 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.010 min

Lab File: VL041756.D

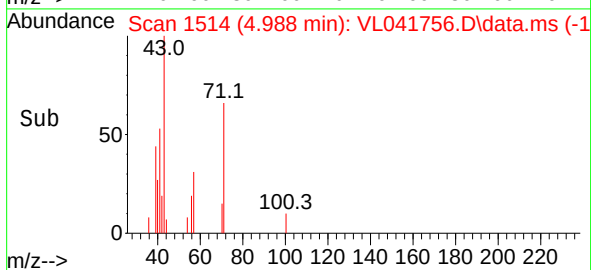
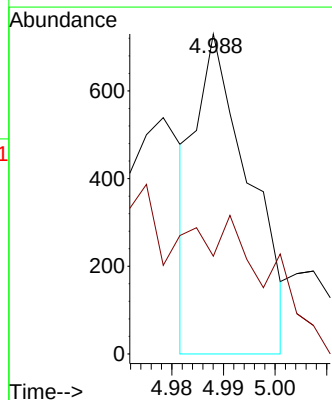
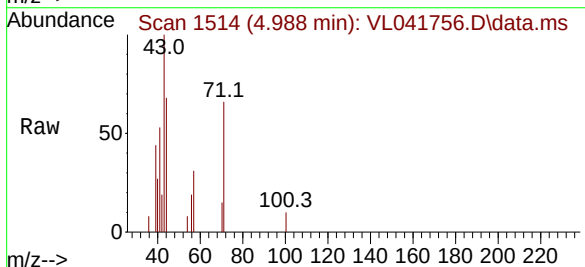
Acq: 16 Dec 2024 15:37

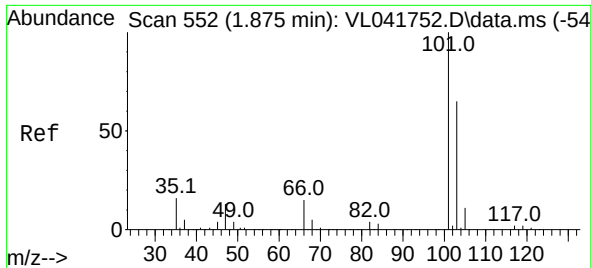
Tgt Ion: 43 Resp: 527

Ion Ratio Lower Upper

43 100

57 0.0 38.5 57.7#

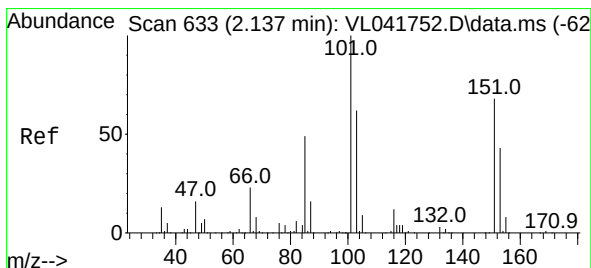
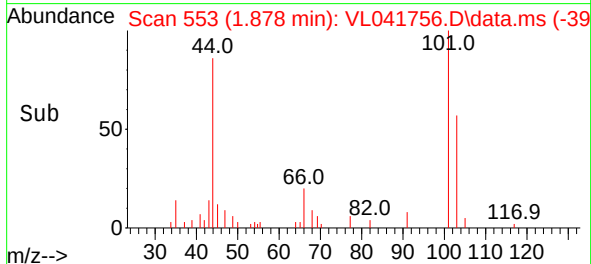
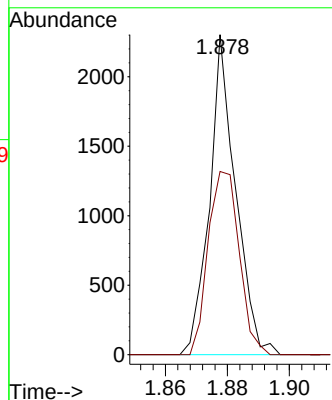
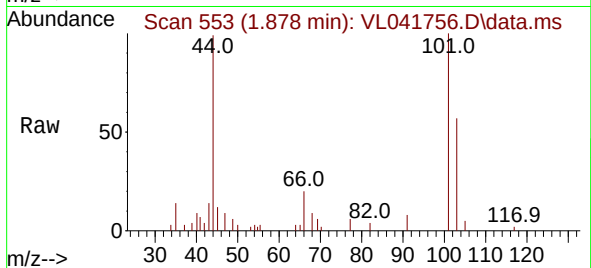




#11
 Trichlorofluoromethane
 Concen: 0.108 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

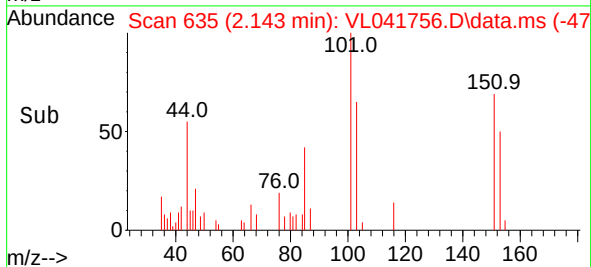
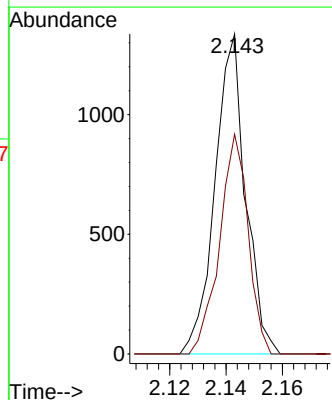
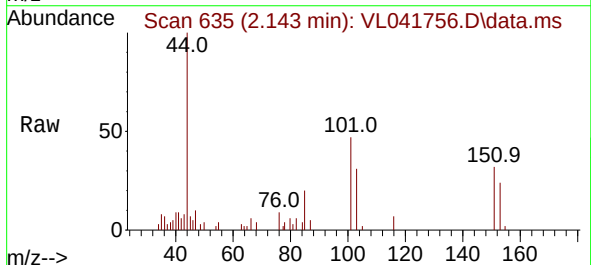
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

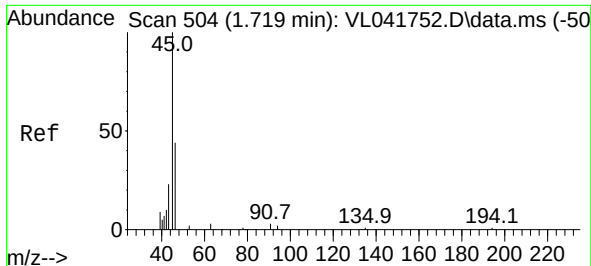
Tgt Ion:101 Resp: 1346
 Ion Ratio Lower Upper
 101 100
 103 57.3 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.106 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

Tgt Ion:101 Resp: 1007
 Ion Ratio Lower Upper
 101 100
 151 64.3 56.8 85.2





#13

Ethanol

Concen: 0.472 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

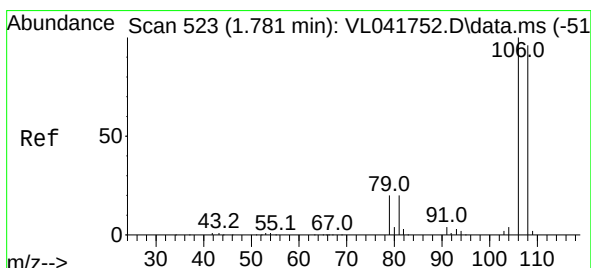
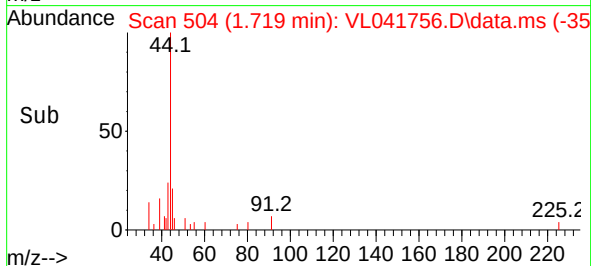
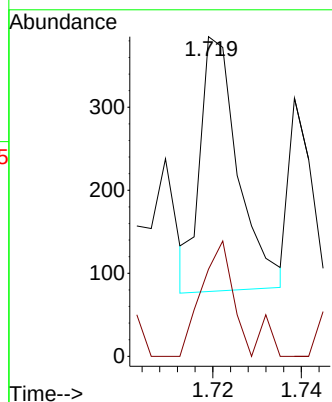
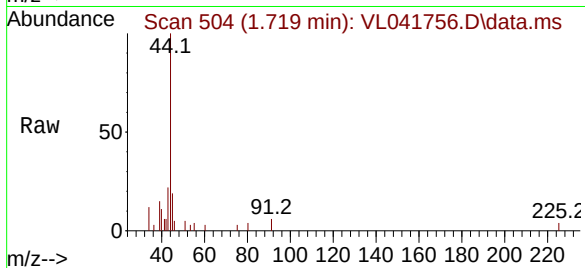
VSTDIC0.1

Tgt Ion: 45 Resp: 183

Ion Ratio Lower Upper

45 100

46 47.5 16.4 65.8



#14

Bromoethene

Concen: 0.135 ppbv

RT: 1.784 min Scan# 524

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

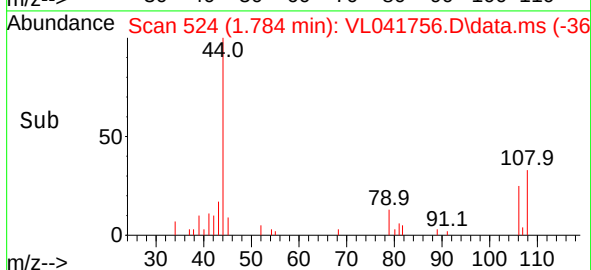
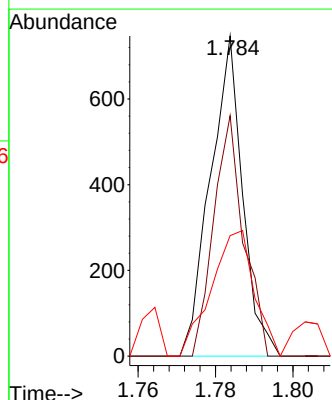
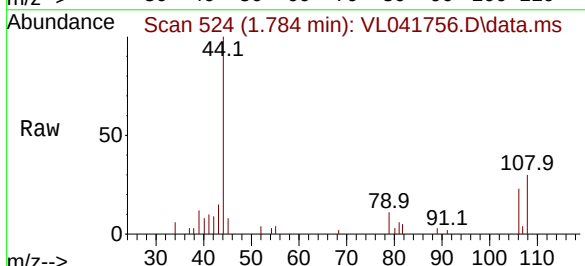
Tgt Ion: 108 Resp: 432

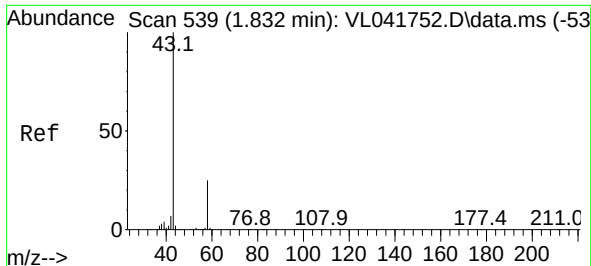
Ion Ratio Lower Upper

108 100

106 69.9 84.1 126.1#

79 67.4 17.4 26.0#





#15

Acetone

Concen: 0.221 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

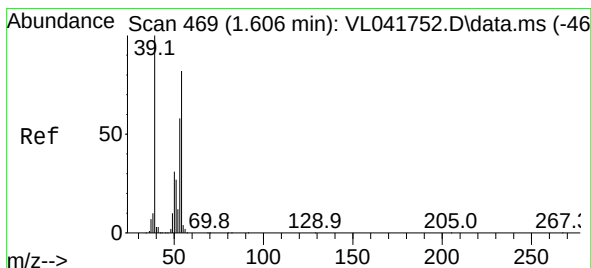
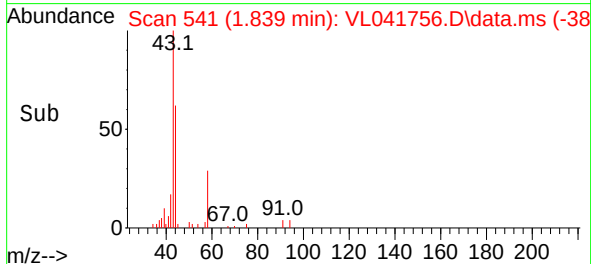
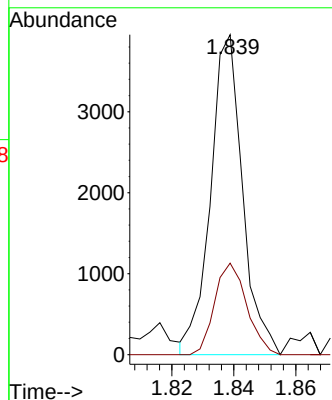
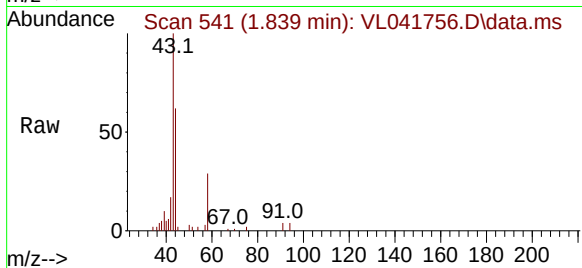
VSTDICC0.1

Tgt Ion: 43 Resp: 2830

Ion Ratio Lower Upper

43 100

58 28.7 19.7 29.5



#16

1,3-Butadiene

Concen: 0.161 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL041756.D

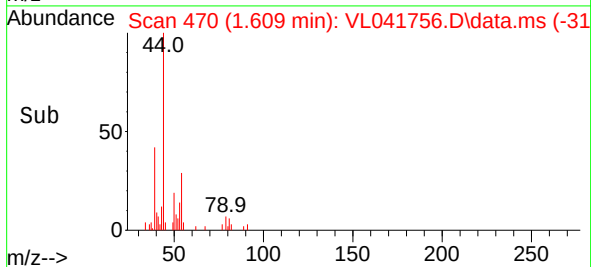
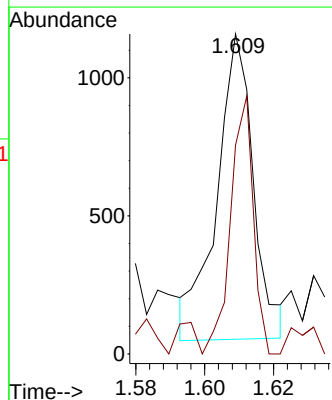
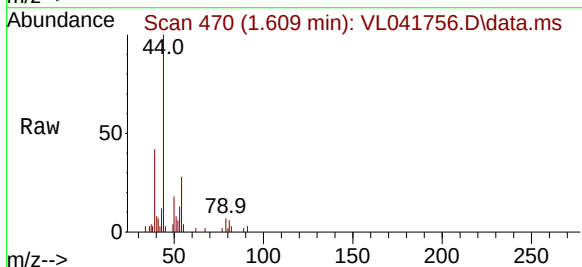
Acq: 16 Dec 2024 15:37

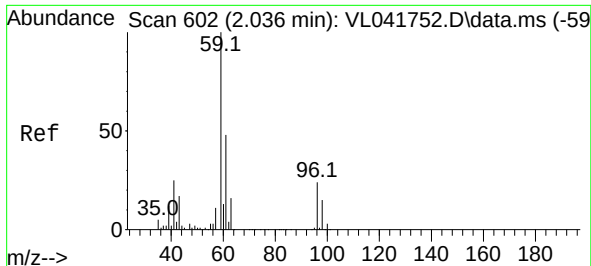
Tgt Ion: 39 Resp: 815

Ion Ratio Lower Upper

39 100

54 69.7 58.4 87.6





#17

tert-Butyl alcohol

Concen: 0.118 ppbv

RT: 2.046 min Scan# 60

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

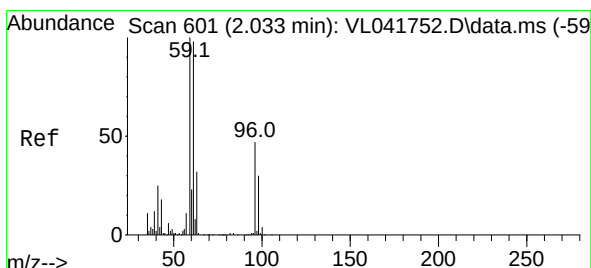
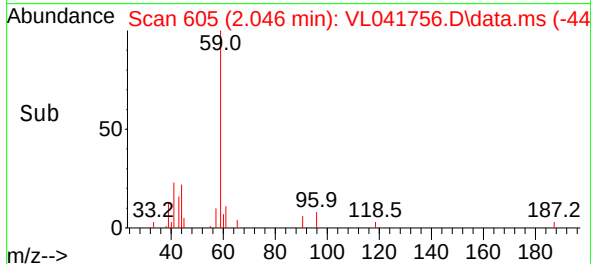
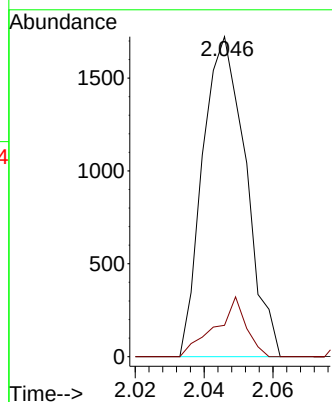
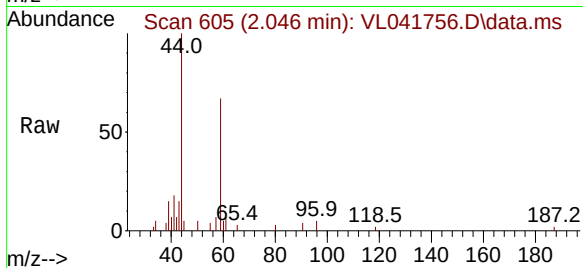
VSTDIC0.1

Tgt Ion: 59 Resp: 1498

Ion Ratio Lower Upper

59 100

57 15.0 8.6 13.0#



#18

1,1-Dichloroethene

Concen: 0.125 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

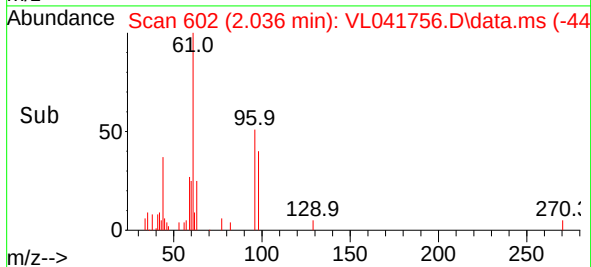
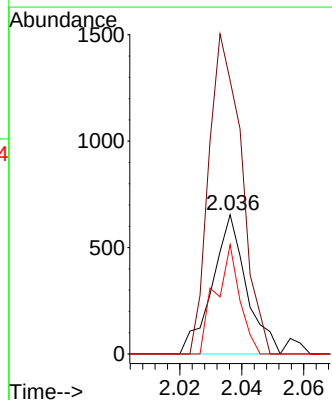
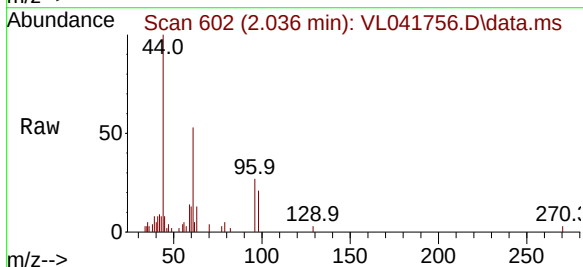
Tgt Ion: 96 Resp: 498

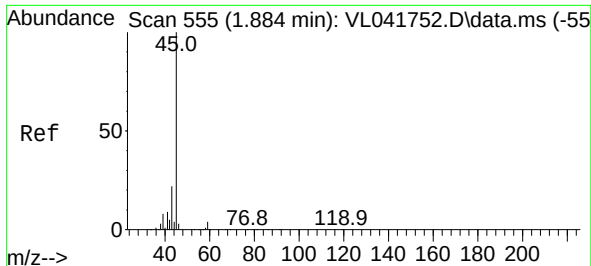
Ion Ratio Lower Upper

96 100

61 214.2 167.7 251.5

98 78.6 51.1 76.7#





#19

Isopropyl Alcohol

Concen: 0.391 ppbv

RT: 1.887 min Scan# 511

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

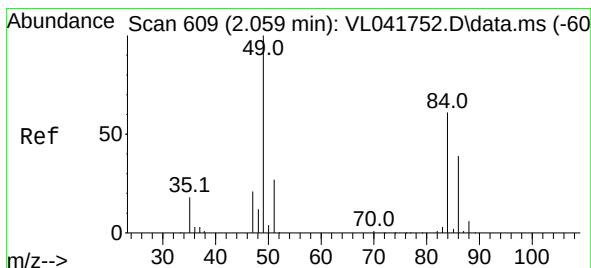
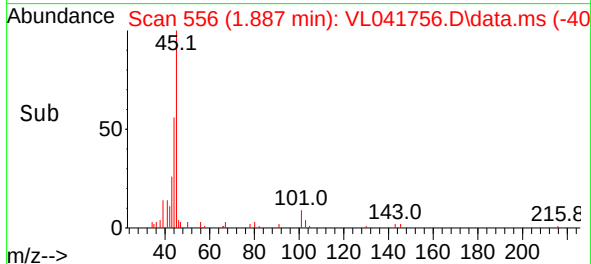
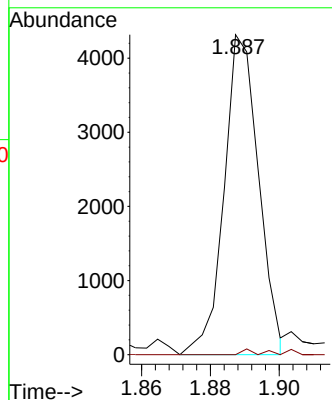
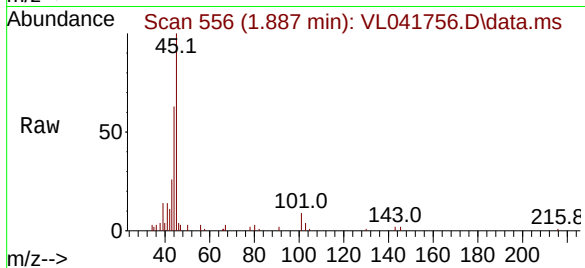
VSTDIC0.1

Tgt Ion: 45 Resp: 3007

Ion Ratio Lower Upper

45 100

58 1.3 33.3 49.9#



#20

Methylene Chloride

Concen: 0.253 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion: 84 Resp: 925

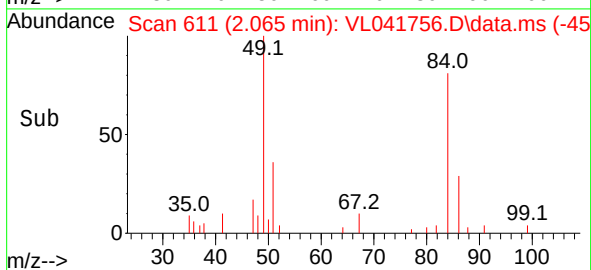
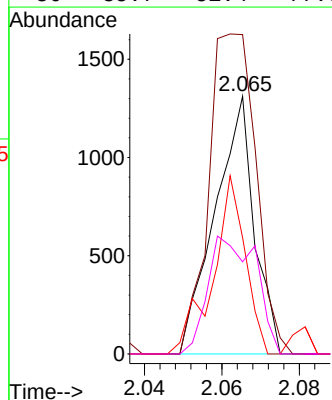
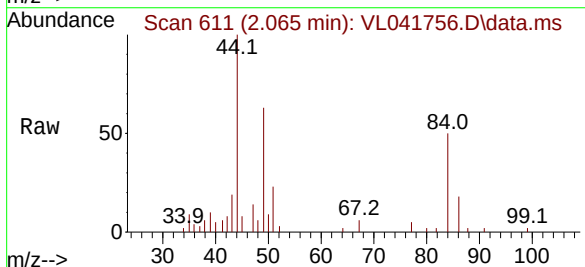
Ion Ratio Lower Upper

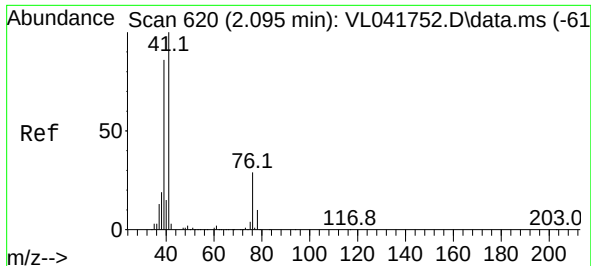
84 100

49 123.9 132.6 198.8#

51 45.1 37.6 56.4

86 35.7 51.4 77.0#





#21

Allyl Chloride

Concen: 0.123 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

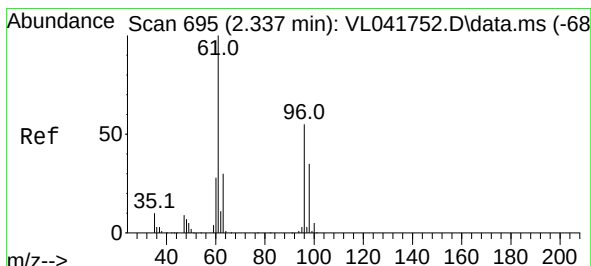
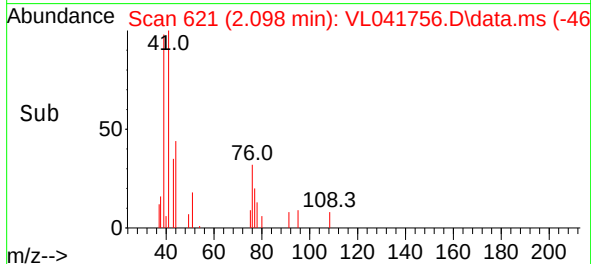
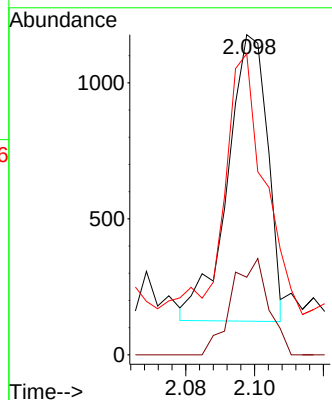
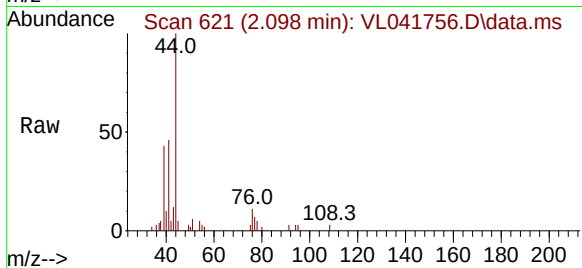
Tgt Ion: 41 Resp: 854

Ion Ratio Lower Upper

41 100

76 31.0 22.3 33.5

39 138.5 69.2 103.8#



#22

trans-1,2-Dichloroethene

Concen: 0.105 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

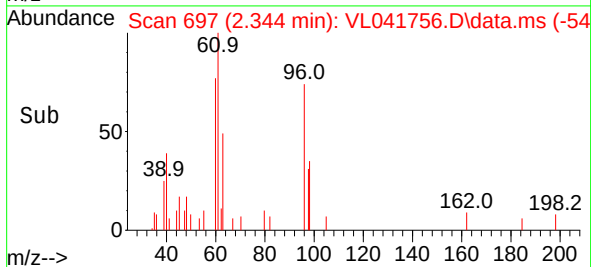
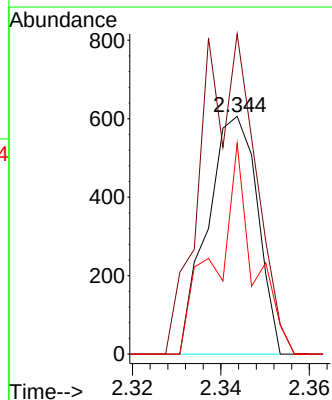
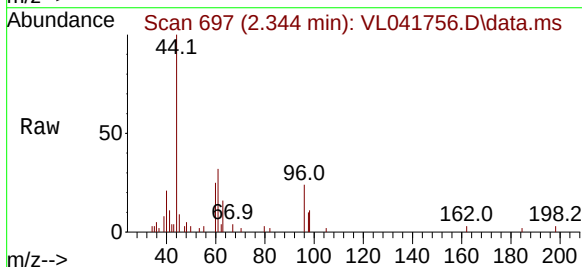
Tgt Ion: 96 Resp: 476

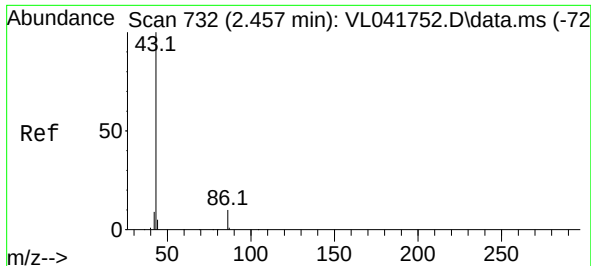
Ion Ratio Lower Upper

96 100

61 122.1 146.3 219.5#

98 88.6 50.8 76.2#

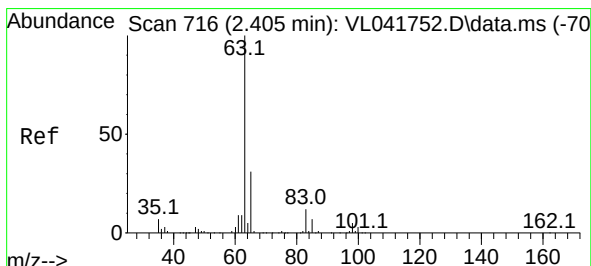
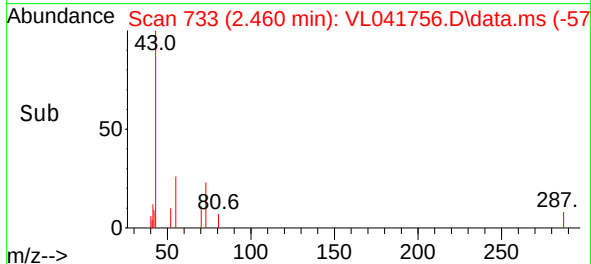
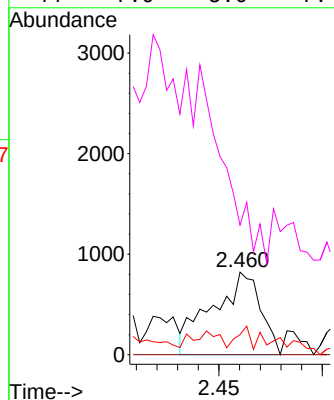
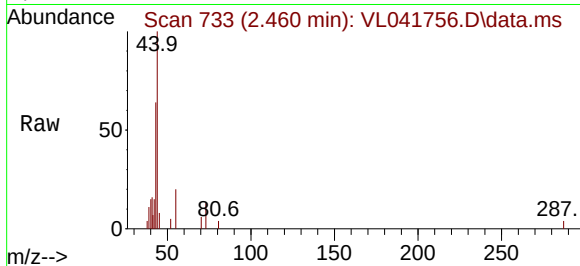




#23
 Vinyl Acetate
 Concen: 0.240 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

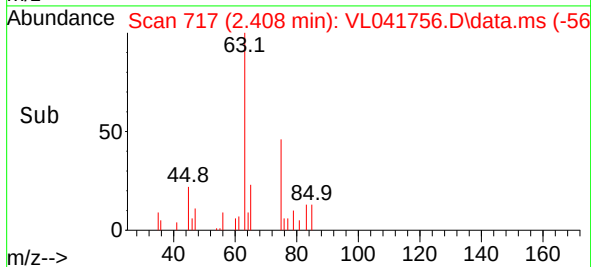
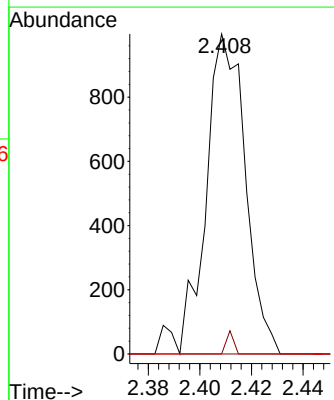
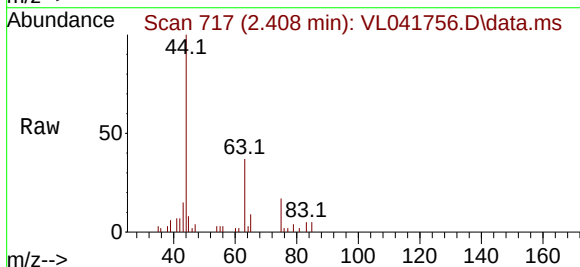
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

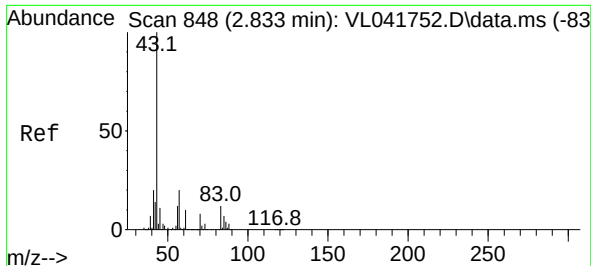
Tgt Ion:	43	Resp:	1339
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	10.0#
42	15.5	8.2	12.2#
44	7.9	5.0	7.4#



#24
 1,1-Dichloroethane
 Concen: 0.113 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

Tgt Ion:	63	Resp:	1044
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.8#
100	0.0	1.4	4.2#





#25

Ethyl Acetate

Concen: 0.093 ppbv

RT: 2.842 min Scan# 848

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 2227

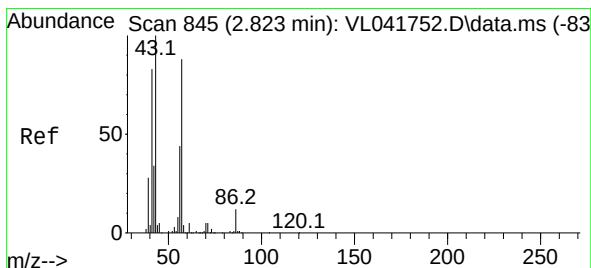
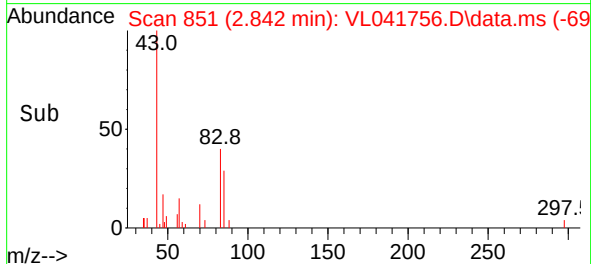
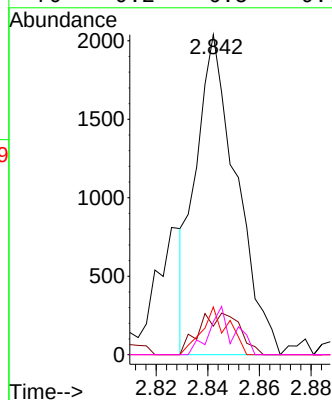
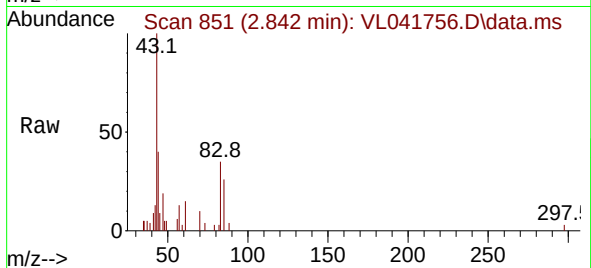
Ion Ratio Lower Upper

43 100

45 16.7 8.1 12.1#

61 9.7 7.0 10.6

70 9.2 6.5 9.7



#26

Hexane

Concen: 0.116 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion: 57 Resp: 1053

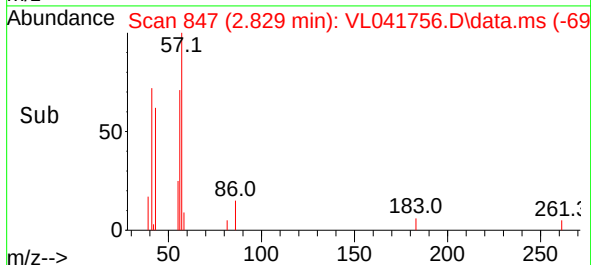
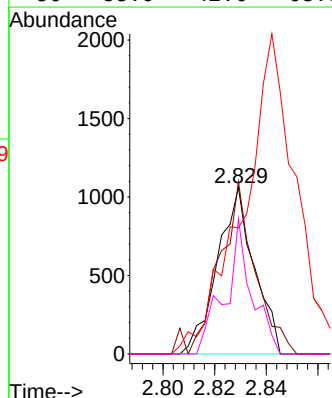
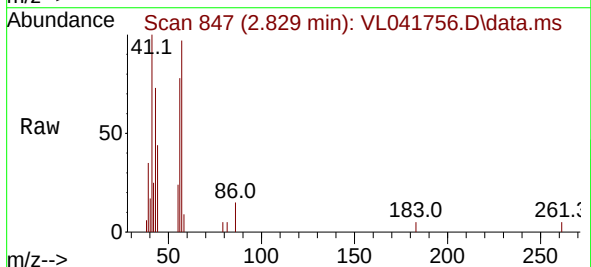
Ion Ratio Lower Upper

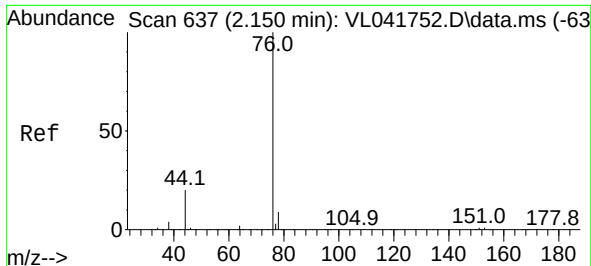
57 100

41 101.5 79.6 119.4

43 273.5 211.0 316.6

56 58.9 42.6 63.8





#27

Carbon Disulfide

Concen: 0.089 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

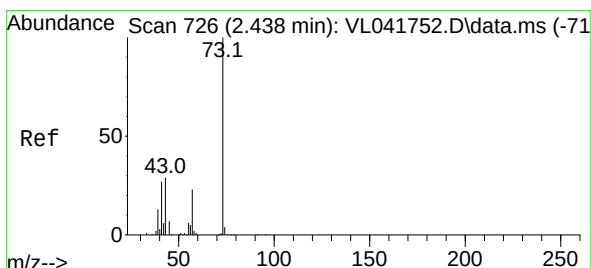
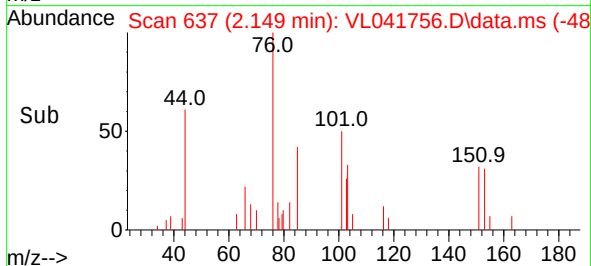
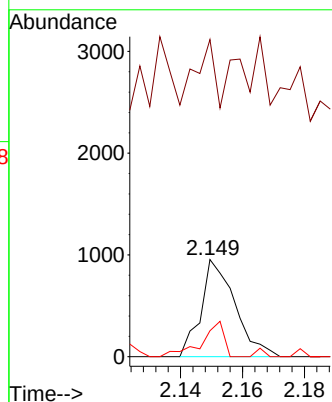
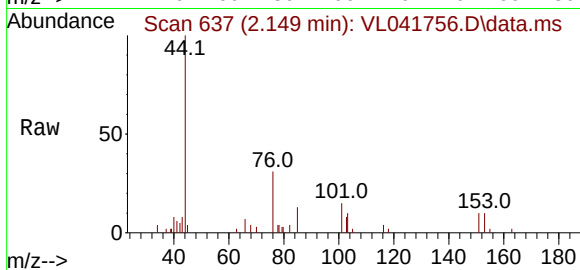
Tgt Ion: 76 Resp: 729

Ion Ratio Lower Upper

76 100

44 720.3 17.6 26.4#

78 25.8 10.2 15.4#



#28

Methyl tert-Butyl Ether

Concen: 0.105 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.006 min

Lab File: VL041756.D

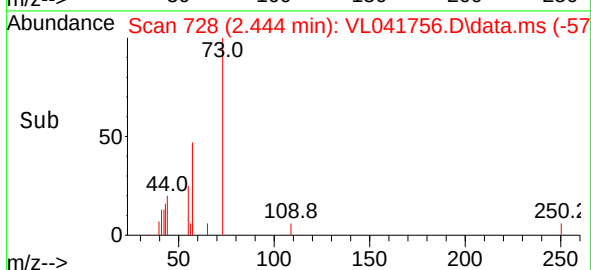
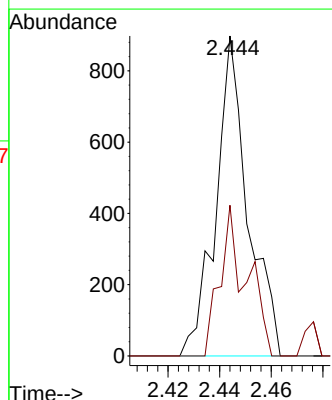
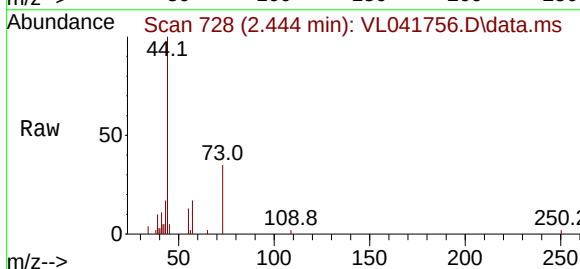
Acq: 16 Dec 2024 15:37

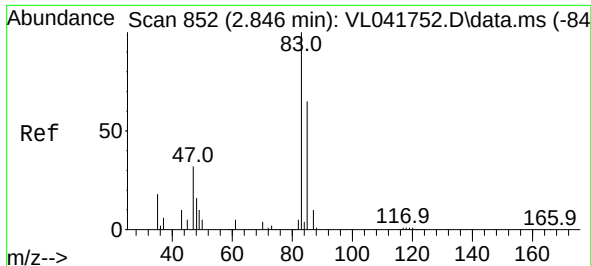
Tgt Ion: 73 Resp: 774

Ion Ratio Lower Upper

73 100

57 43.4 17.6 26.4#





#29

Chloroform

Concen: 0.110 ppbv

RT: 2.852 min Scan# 85

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

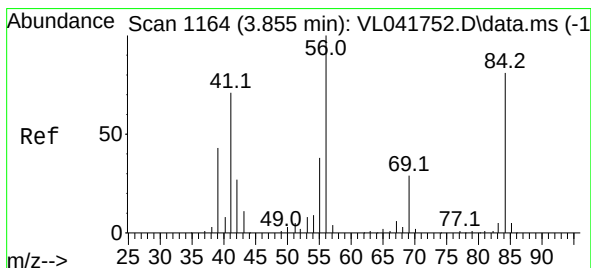
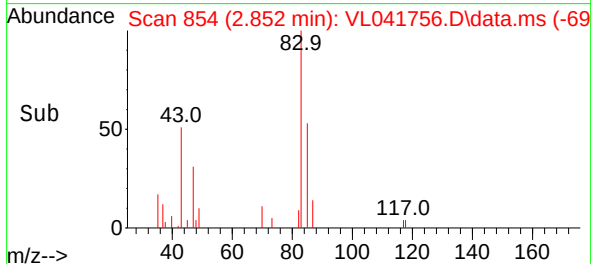
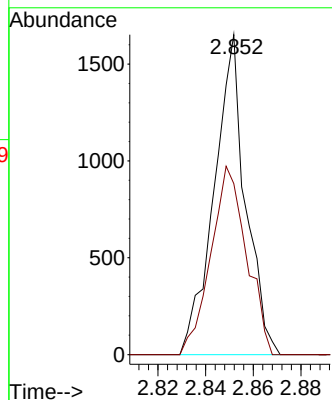
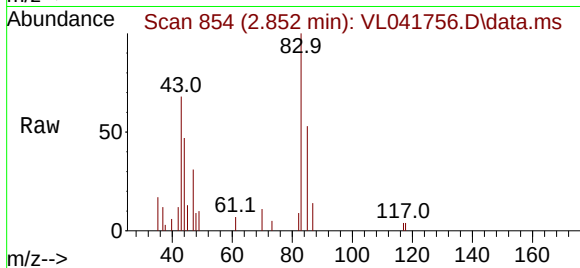
VSTDIC0.1

Tgt Ion: 83 Resp: 1515

Ion Ratio Lower Upper

83 100

85 53.5 51.8 77.6



#30

Cyclohexane

Concen: 0.049 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

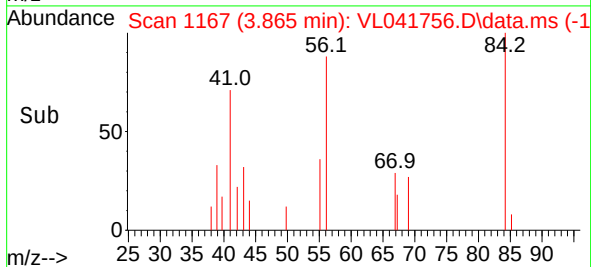
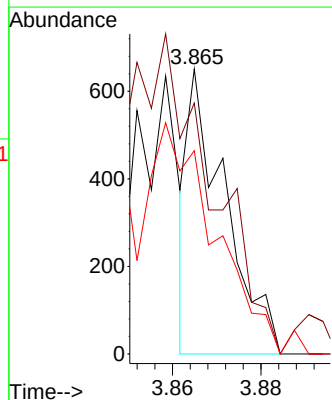
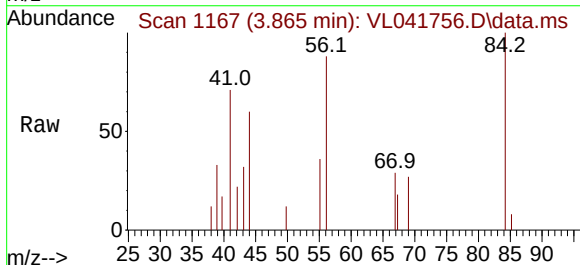
Tgt Ion: 84 Resp: 377

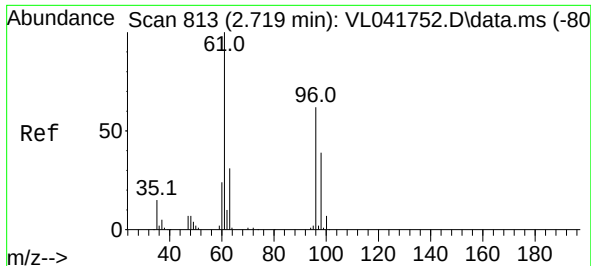
Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 0.0 74.0 111.0#





#31

cis-1,2-Dichloroethene

Concen: 0.100 ppbv

RT: 2.719 min Scan# 813

Delta R.T. -0.000 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

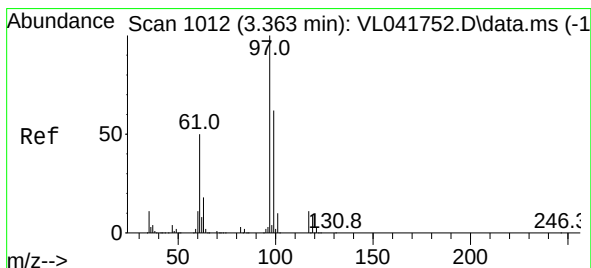
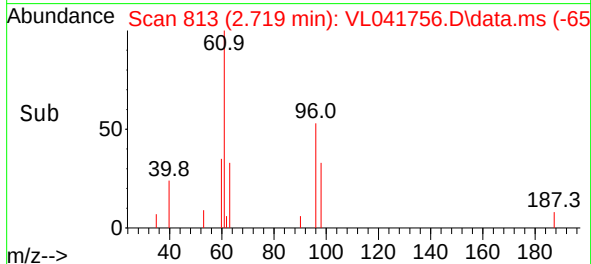
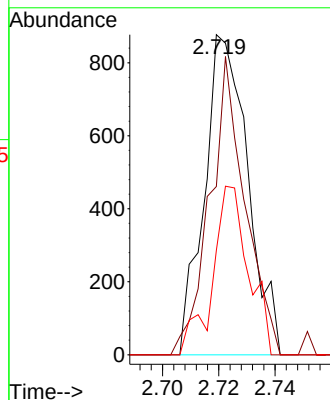
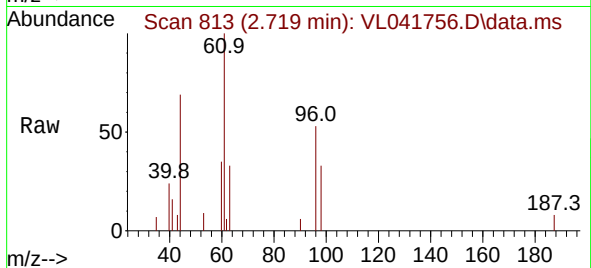
Tgt Ion: 61 Resp: 940

Ion Ratio Lower Upper

61 100

96 49.7 49.7 74.5

98 30.9 30.8 46.2



#32

1,1,1-Trichloroethane

Concen: 0.101 ppbv

RT: 3.370 min Scan# 1014

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

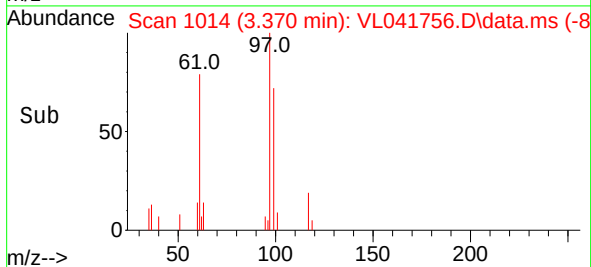
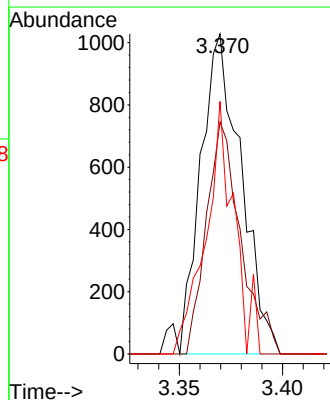
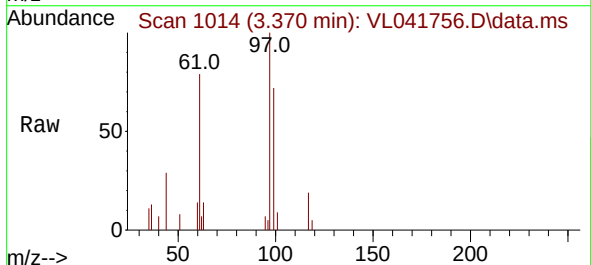
Tgt Ion: 97 Resp: 1393

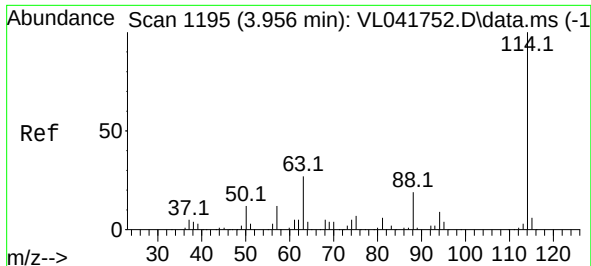
Ion Ratio Lower Upper

97 100

99 61.9 51.0 76.4

61 55.9 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

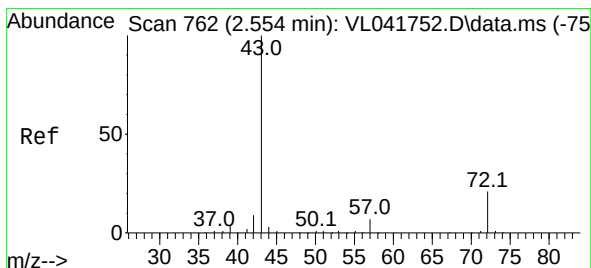
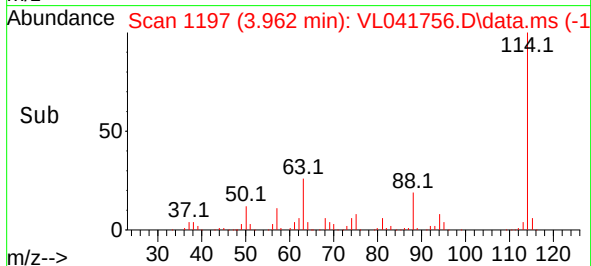
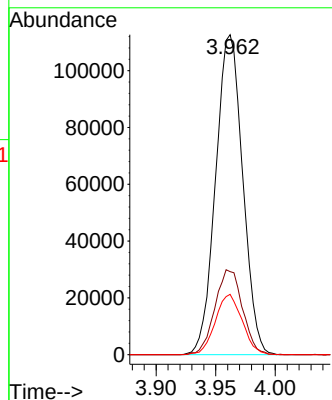
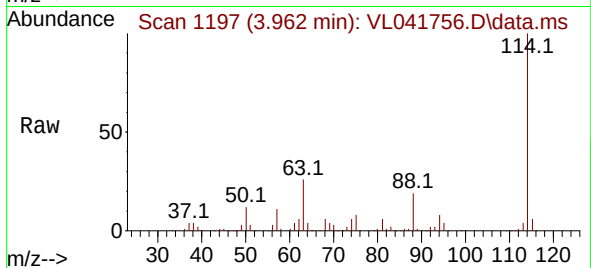
Tgt Ion:114 Resp: 177964

Ion Ratio Lower Upper

114 100

63 27.0 21.8 32.8

88 18.7 14.8 22.2



#34

2-Butanone

Concen: 0.132 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL041756.D

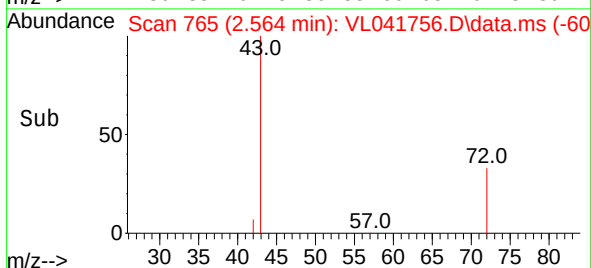
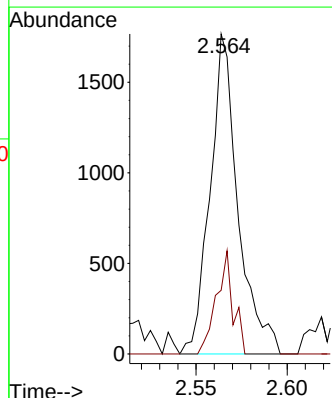
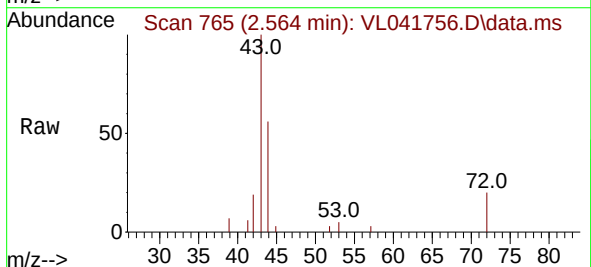
Acq: 16 Dec 2024 15:37

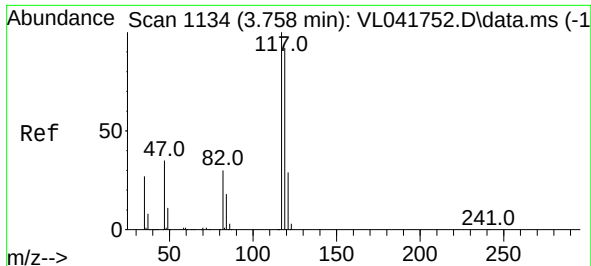
Tgt Ion: 43 Resp: 1888

Ion Ratio Lower Upper

43 100

72 19.2 16.8 25.2

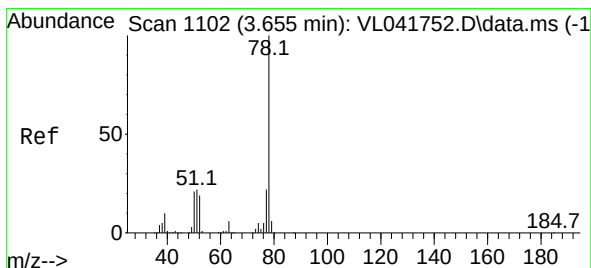
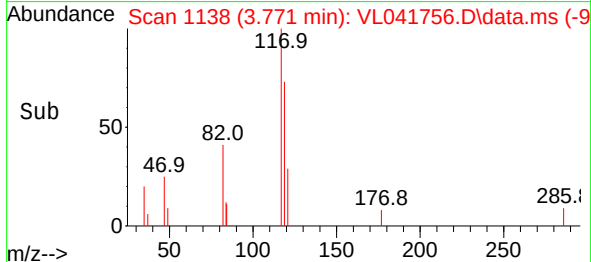
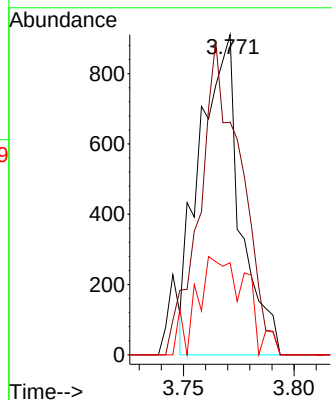
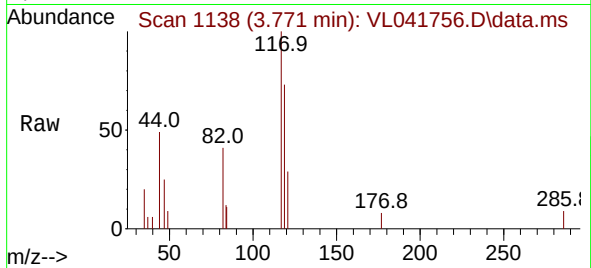




#35
Carbon Tetrachloride
Concen: 0.093 ppbv
RT: 3.771 min Scan# 1134
Delta R.T. 0.013 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

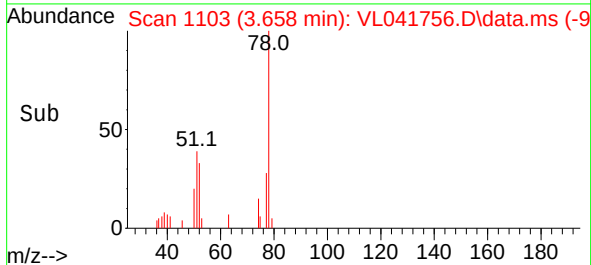
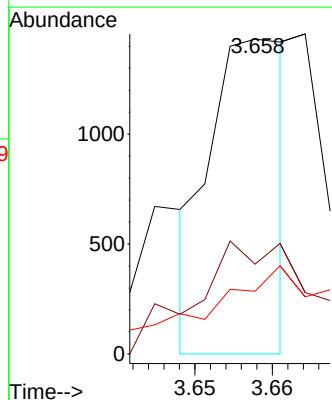
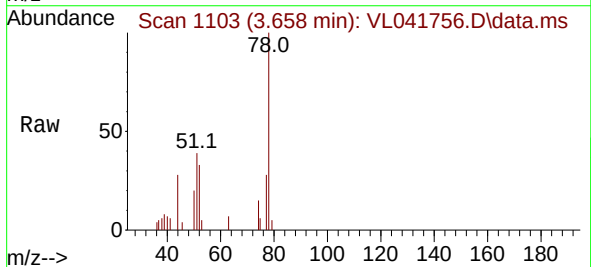
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

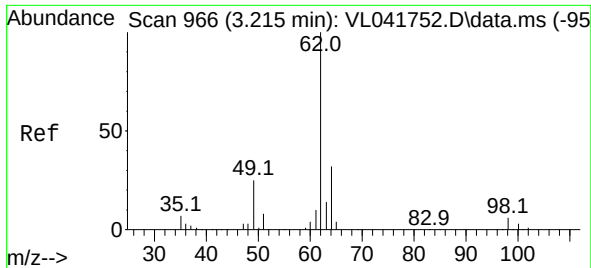
Tgt Ion:117 Resp: 1170
Ion Ratio Lower Upper
117 100
119 72.7 73.7 110.5#
121 28.8 23.0 34.4



#36
Benzene
Concen: 0.053 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 78 Resp: 976
Ion Ratio Lower Upper
78 100
77 29.4 17.8 26.6#
50 13.1 17.2 25.8#

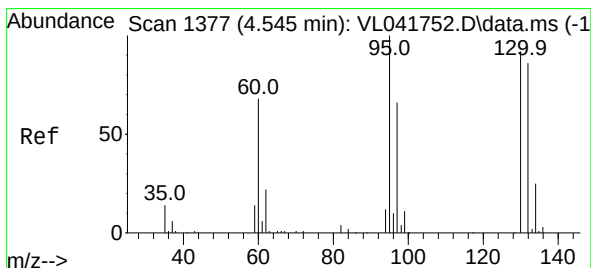
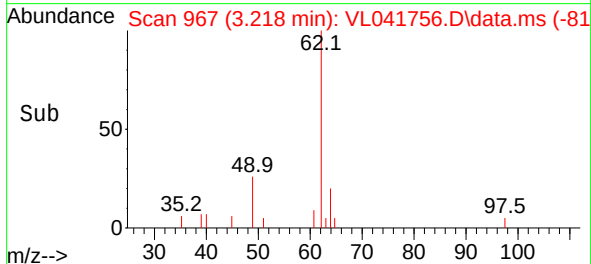
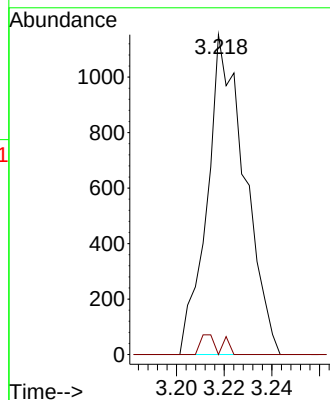
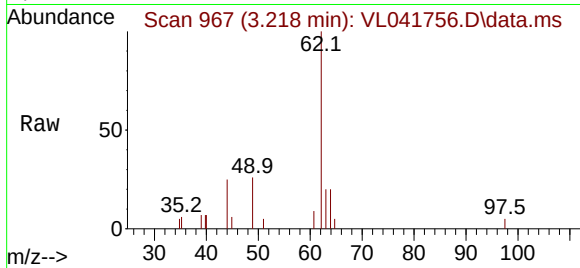




#37
1,2-Dichloroethane
Concen: 0.110 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

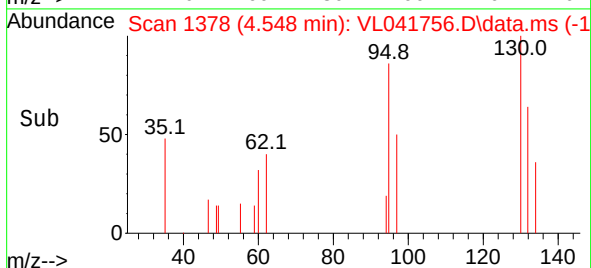
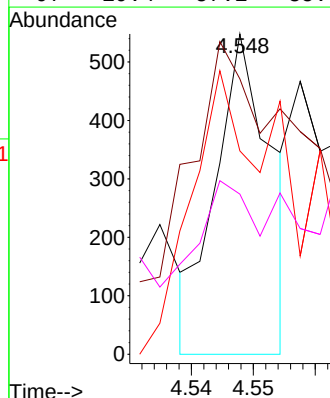
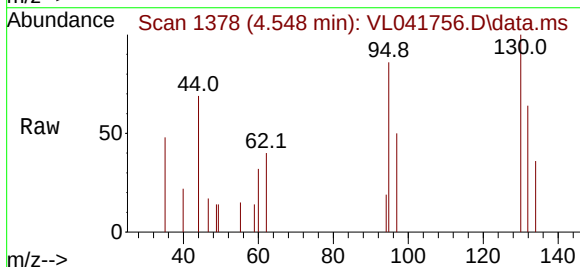
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

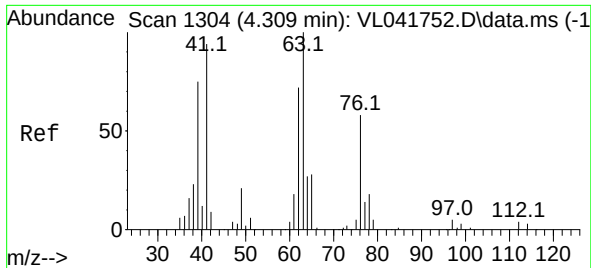
Tgt Ion: 62 Resp: 1264
Ion Ratio Lower Upper
62 100
98 3.2 4.7 7.1#



#38
Trichloroethene
Concen: 0.044 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion:130 Resp: 339
Ion Ratio Lower Upper
130 100
95 35.8 87.0 130.6#
132 33.6 75.0 112.6#
97 29.4 57.2 85.8#





#39

1,2-Dichloropropane

Concen: 7.216 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.350 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

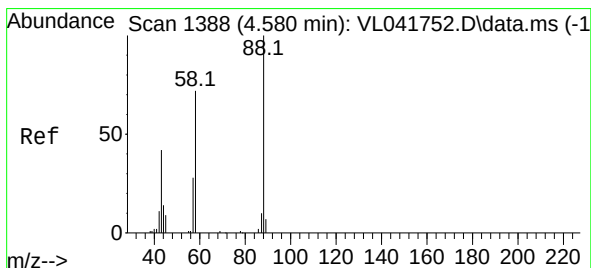
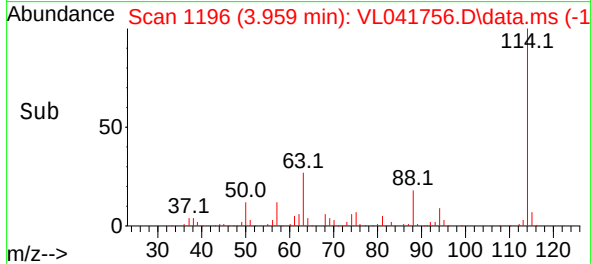
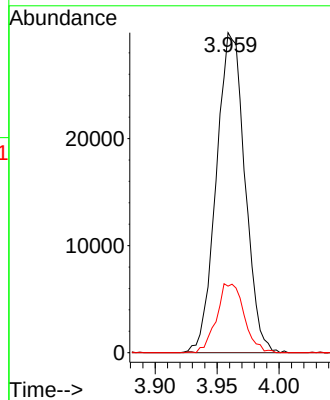
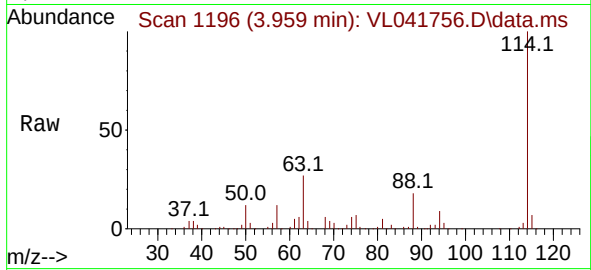
Tgt Ion: 63 Resp: 48044

Ion Ratio Lower Upper

63 100

41 0.0 75.3 112.9#

62 20.8 57.3 85.9#



#40

1,4-Dioxane

Concen: 0.078 ppbv

RT: 4.622 min Scan# 1401

Delta R.T. 0.042 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion: 88 Resp: 254

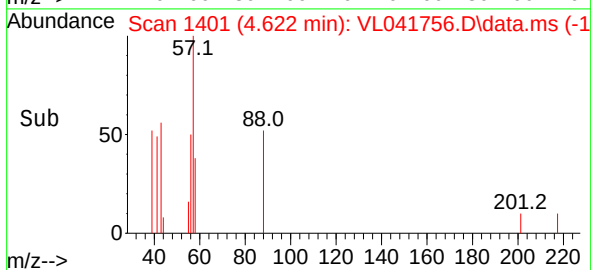
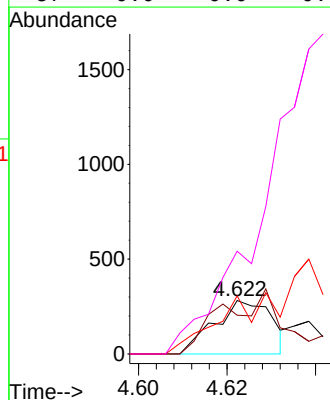
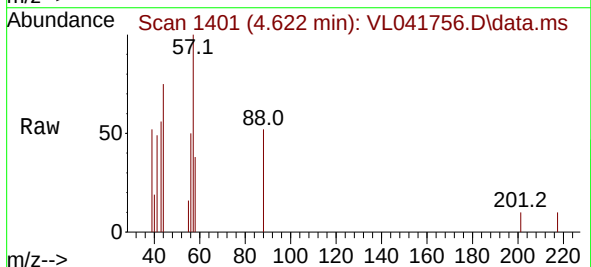
Ion Ratio Lower Upper

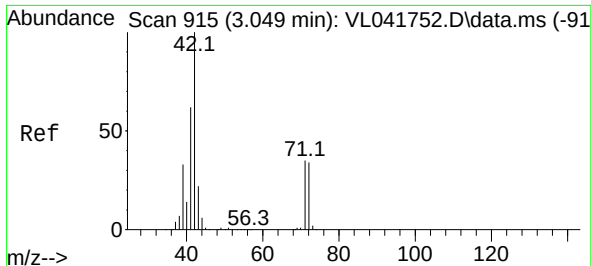
88 100

58 175.2 61.0 91.6#

43 0.0 29.4 44.0#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.074 ppbv

RT: 3.069 min Scan# 915

Delta R.T. 0.019 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

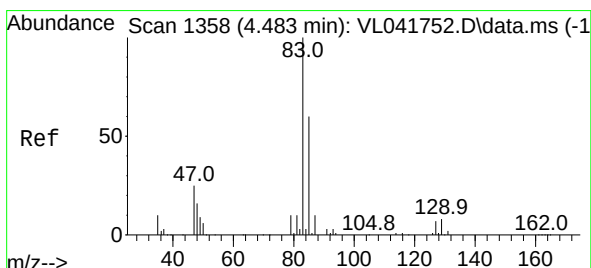
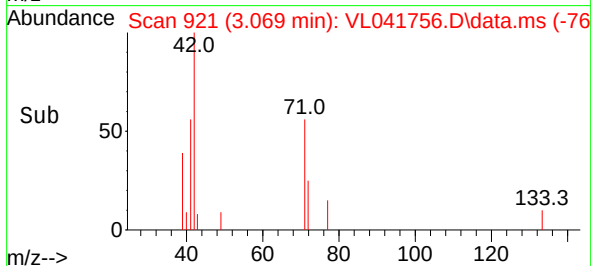
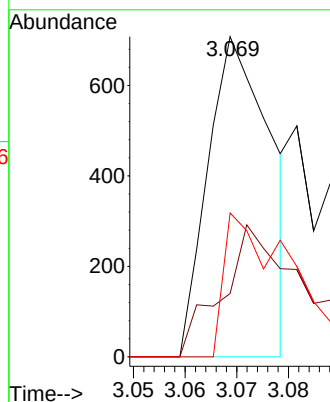
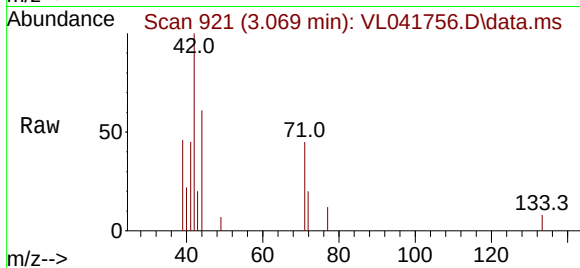
Tgt Ion: 42 Resp: 593

Ion Ratio Lower Upper

42 100

72 52.3 29.1 43.7#

71 47.6 28.4 42.6#



#42

Bromodichloromethane

Concen: 0.057 ppbv

RT: 4.490 min Scan# 1360

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

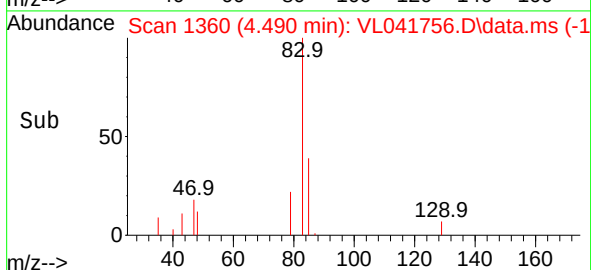
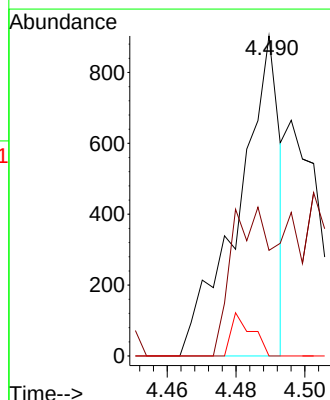
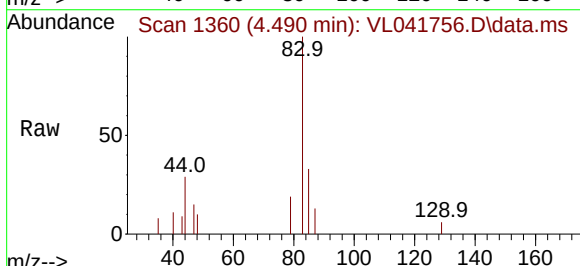
Tgt Ion: 83 Resp: 756

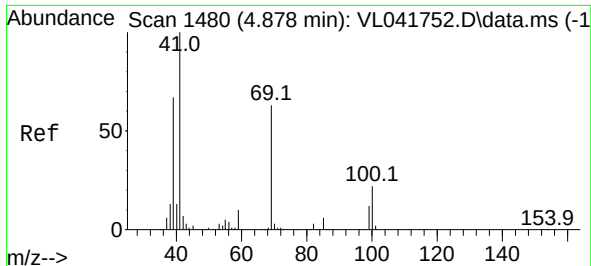
Ion Ratio Lower Upper

83 100

85 33.0 48.0 72.0#

127 0.0 5.8 8.8#





#43

Methyl Methacrylate

Concen: 0.028 ppbv

RT: 4.888 min Scan# 1410

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

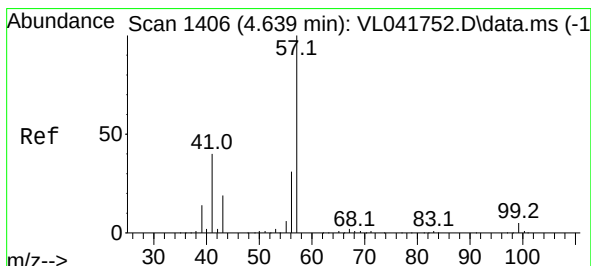
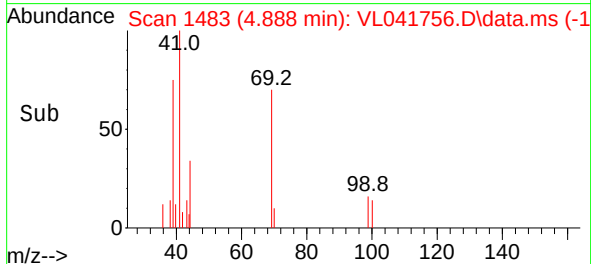
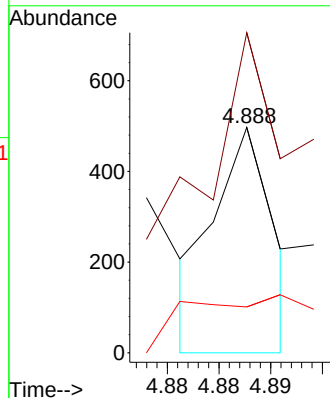
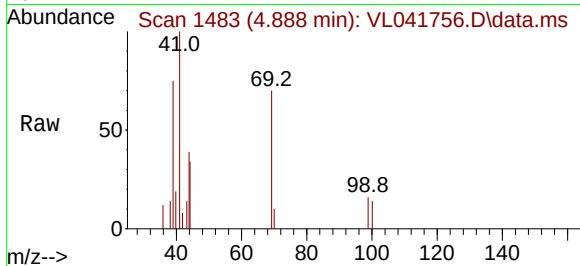
Tgt Ion: 69 Resp: 197

Ion Ratio Lower Upper

69 100

41 570.1 130.3 195.5#

100 0.0 28.3 42.5#



#44

2,2,4-Trimethylpentane

Concen: 0.050 ppbv

RT: 4.651 min Scan# 1410

Delta R.T. 0.013 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

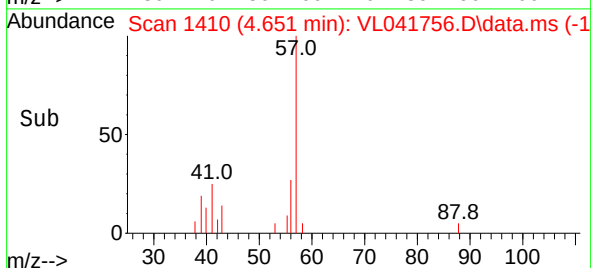
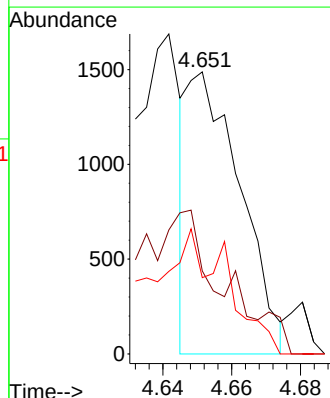
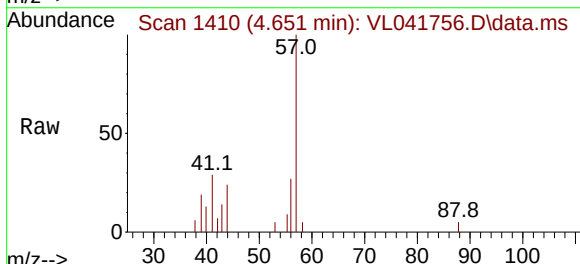
Tgt Ion: 57 Resp: 1584

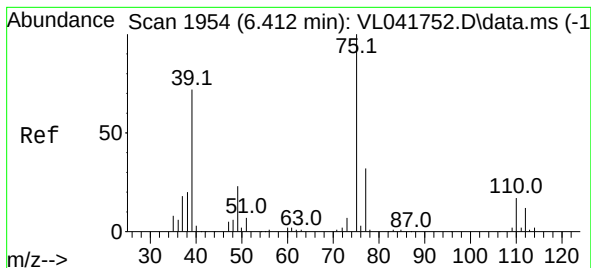
Ion Ratio Lower Upper

57 100

41 92.9 30.7 46.1#

56 72.0 25.4 38.0#





#45

t-1,3-Dichloropropene

Concen: 0.034 ppbv

RT: 6.419 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

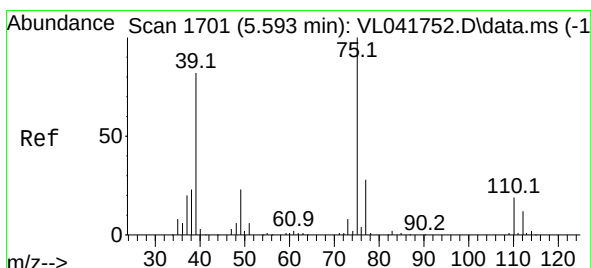
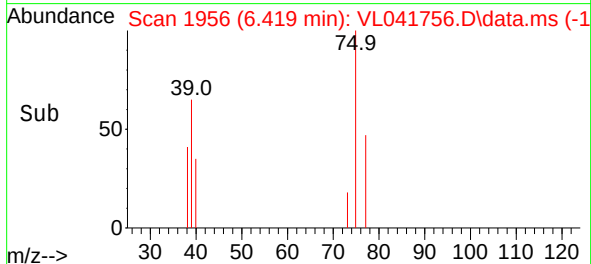
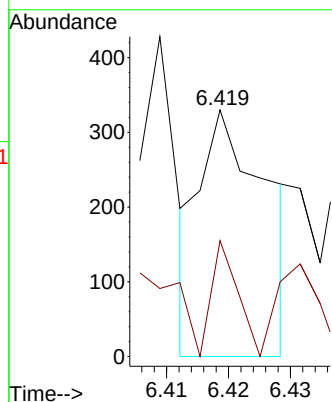
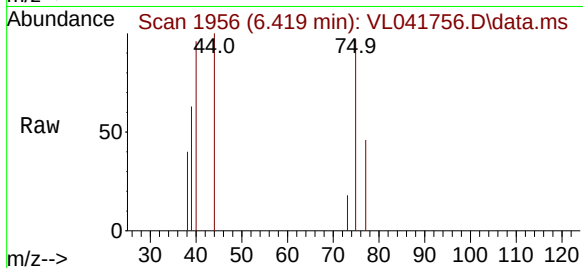
VSTDIC0.1

Tgt Ion: 75 Resp: 247

Ion Ratio Lower Upper

75 100

77 47.0 25.9 38.9#



#46

cis-1,3-Dichloropropene

Concen: 0.034 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

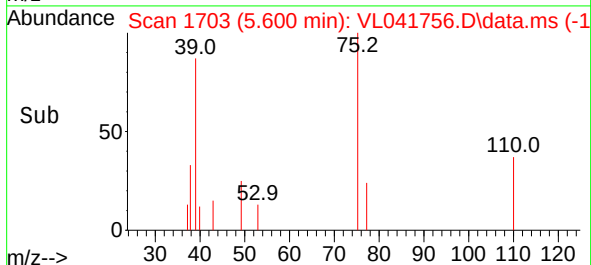
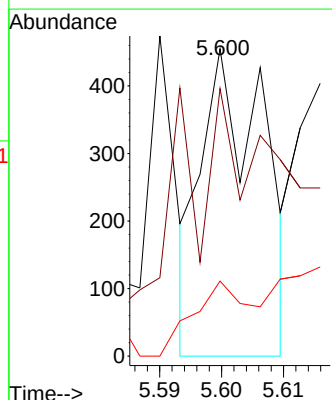
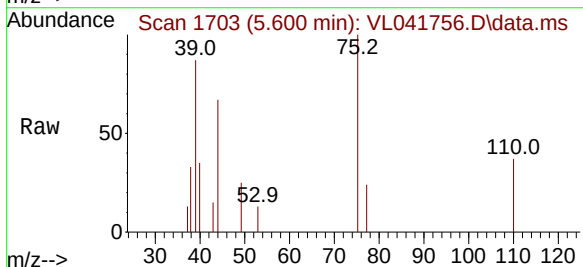
Tgt Ion: 75 Resp: 315

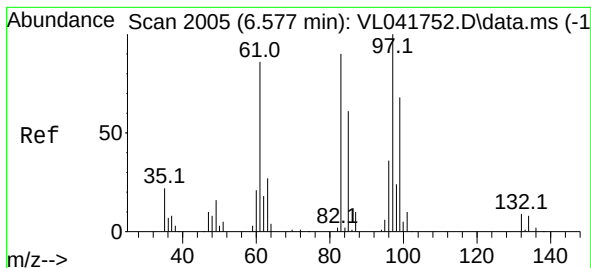
Ion Ratio Lower Upper

75 100

39 40.5 65.2 97.8#

77 22.8 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 0.075 ppbv

RT: 6.590 min Scan# 20

Delta R.T. 0.013 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 525

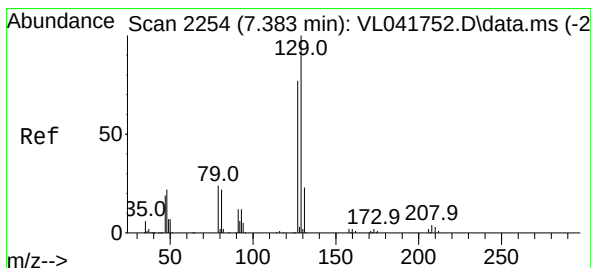
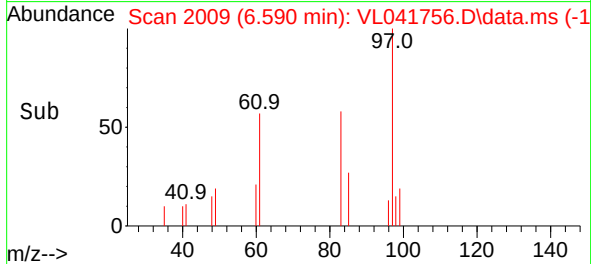
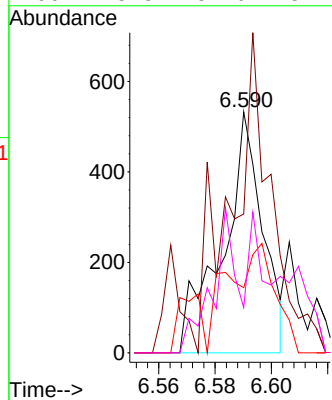
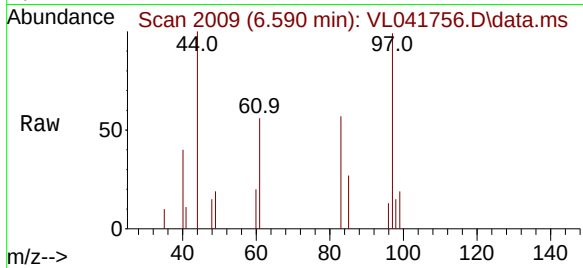
Ion Ratio Lower Upper

97 100

83 40.5 72.3 108.5#

85 6.9 48.5 72.7#

99 18.8 54.0 81.0#



#48

Dibromochloromethane

Concen: 0.063 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.010 min

Lab File: VL041756.D

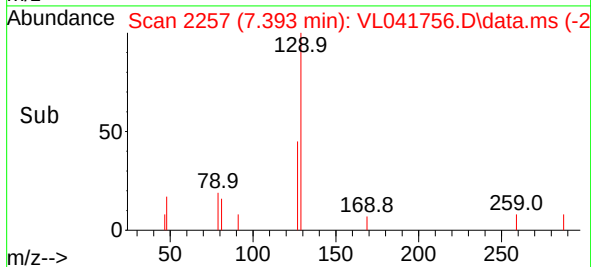
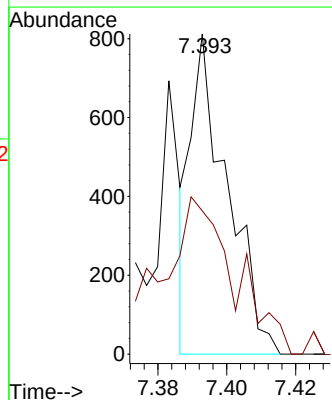
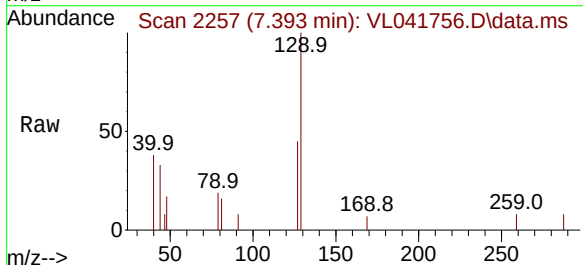
Acq: 16 Dec 2024 15:37

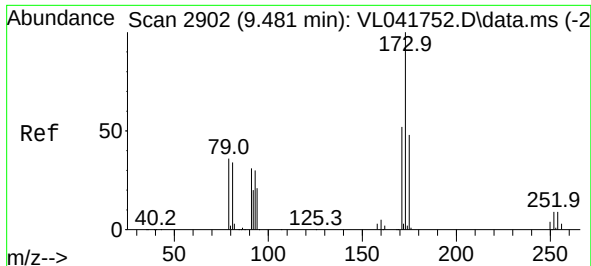
Tgt Ion: 129 Resp: 599

Ion Ratio Lower Upper

129 100

127 102.2 38.8 116.3





#49

Bromoform

Concen: 0.022 ppbv

RT: 9.493 min Scan# 2906

Delta R.T. 0.013 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

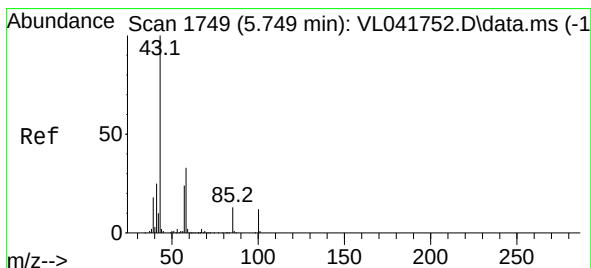
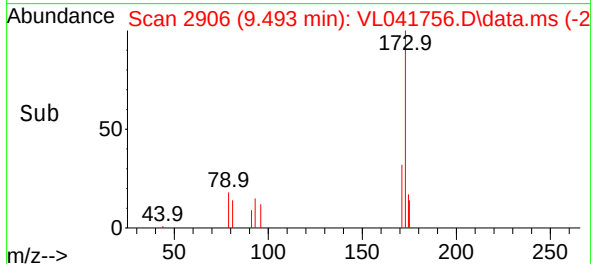
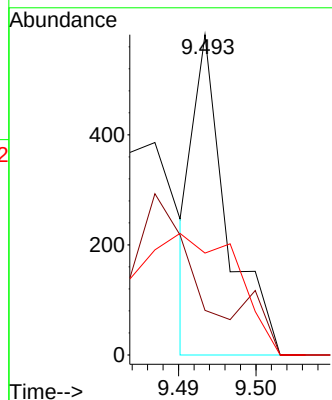
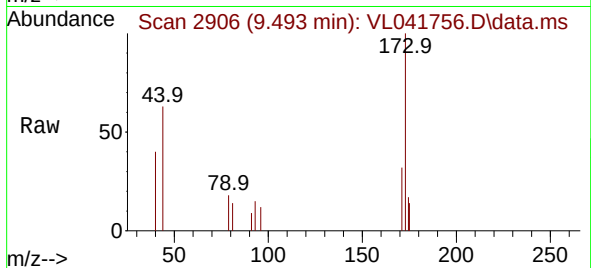
Tgt Ion:173 Resp: 172

Ion Ratio Lower Upper

173 100

175 0.0 38.2 57.2#

171 154.7 41.1 61.7#



#50

4-Methyl-2-Pentanone

Concen: 0.002 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VL041756.D

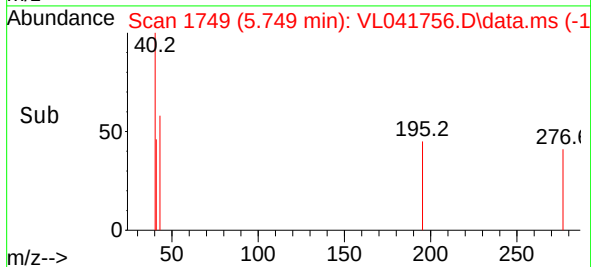
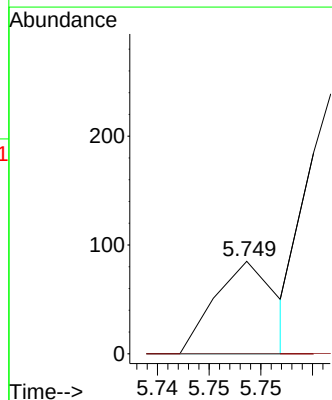
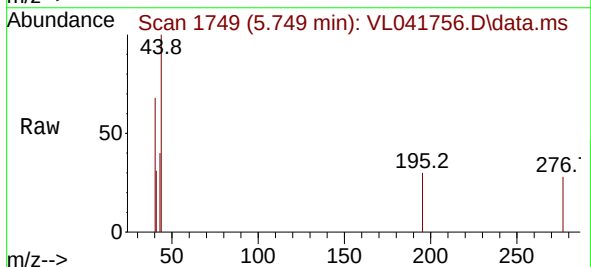
Acq: 16 Dec 2024 15:37

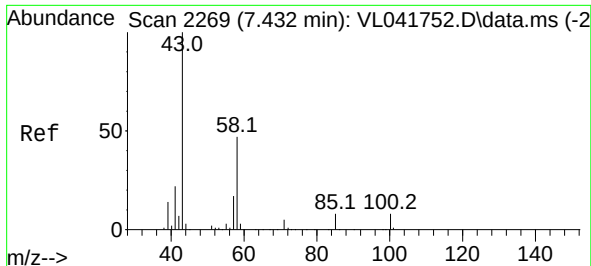
Tgt Ion: 43 Resp: 36

Ion Ratio Lower Upper

43 100

58 0.0 26.8 40.2#

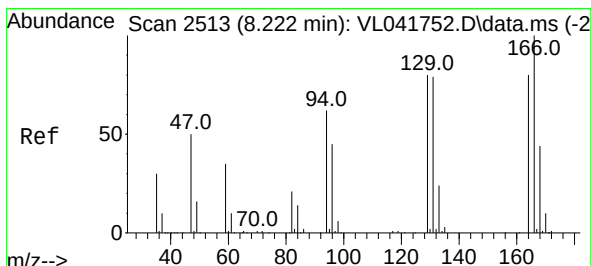
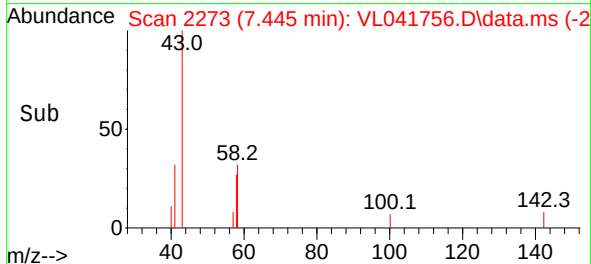
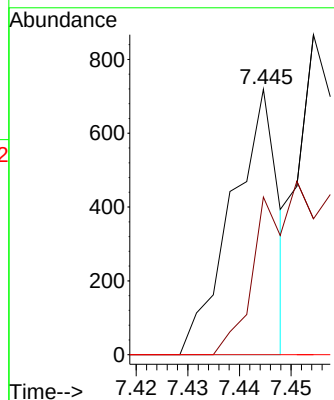
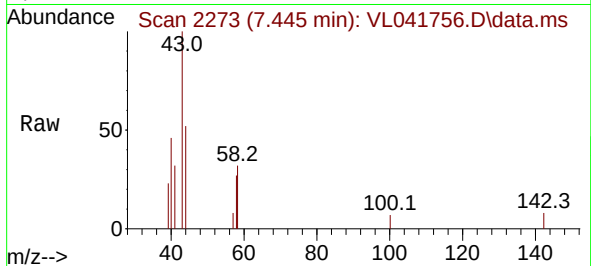




#51
2-Hexanone
Concen: 0.028 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

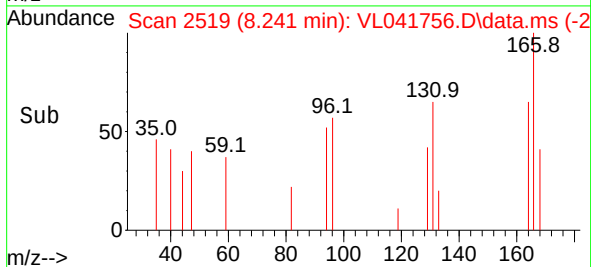
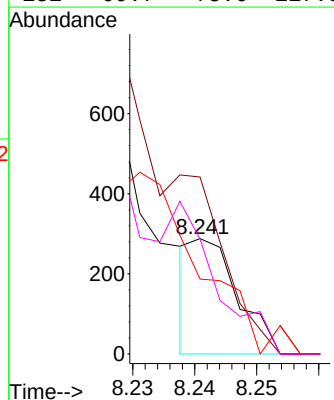
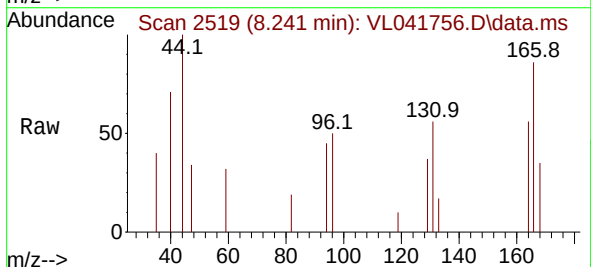
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

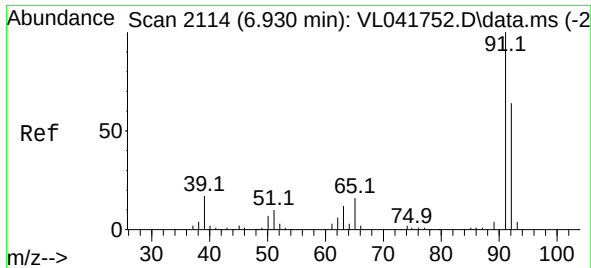
Tgt Ion: 43 Resp: 446
Ion Ratio Lower Upper
43 100
58 176.7 36.6 55.0#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.022 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. 0.019 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 164 Resp: 149
Ion Ratio Lower Upper
164 100
166 153.5 99.8 149.6#
129 40.3 79.6 119.4#
131 99.7 78.6 117.8





#53

Toluene

Concen: 0.073 ppbv

RT: 6.936 min Scan# 2114

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

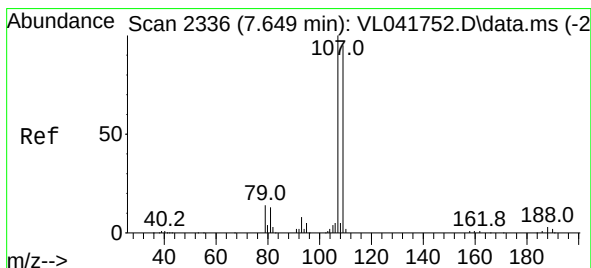
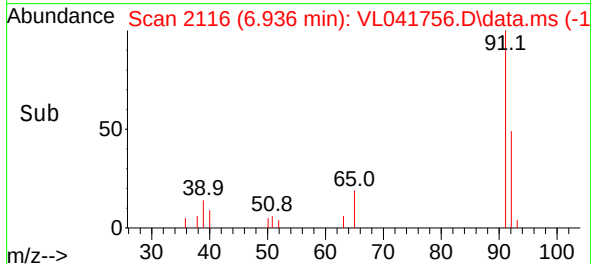
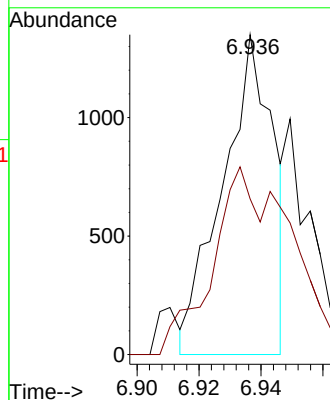
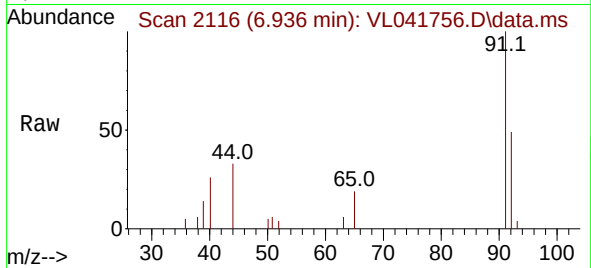
VSTDIC0.1

Tgt Ion: 91 Resp: 1529

Ion Ratio Lower Upper

91 100

92 92.8 47.9 71.9#



#54

1,2-Dibromoethane

Concen: 0.041 ppbv

RT: 7.658 min Scan# 2339

Delta R.T. 0.010 min

Lab File: VL041756.D

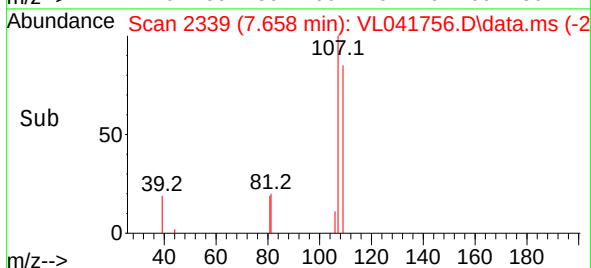
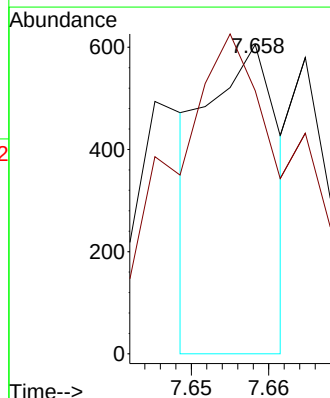
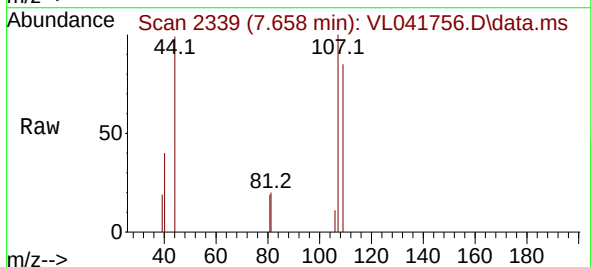
Acq: 16 Dec 2024 15:37

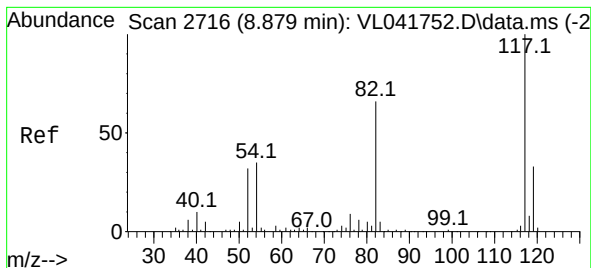
Tgt Ion: 107 Resp: 396

Ion Ratio Lower Upper

107 100

109 96.6 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2716

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

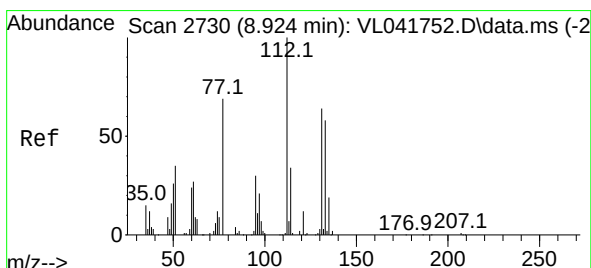
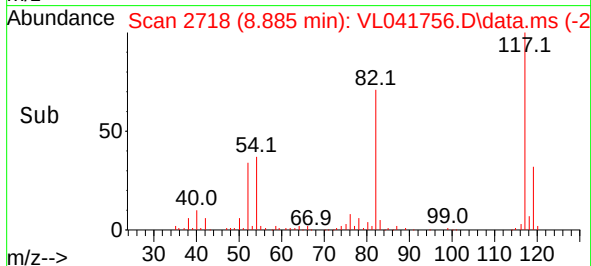
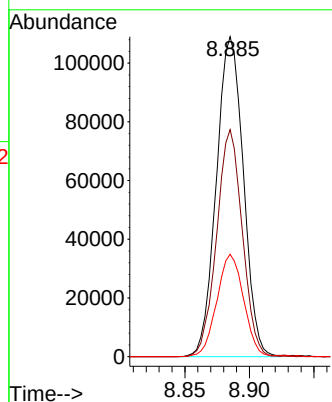
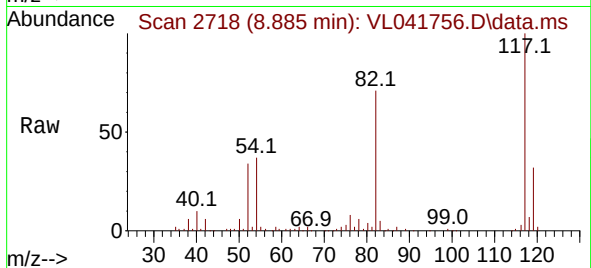
Tgt Ion:117 Resp: 158649

Ion Ratio Lower Upper

117 100

82 67.4 53.8 80.8

119 31.9 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 0.017 ppbv

RT: 8.946 min Scan# 2737

Delta R.T. 0.022 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

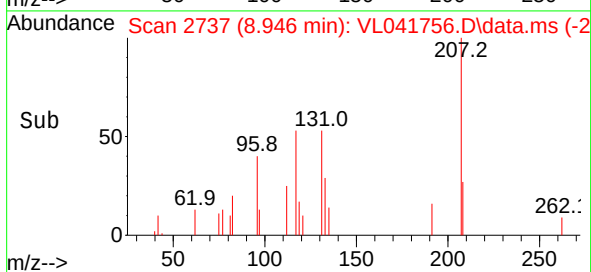
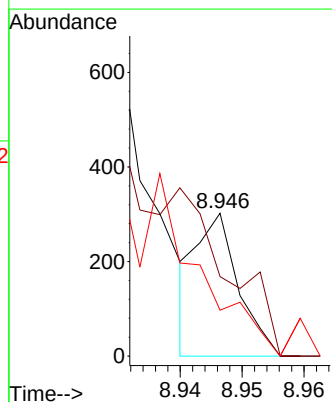
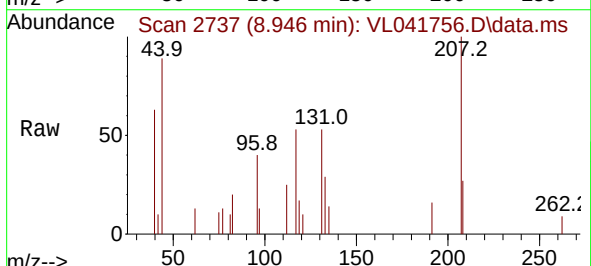
Tgt Ion:131 Resp: 142

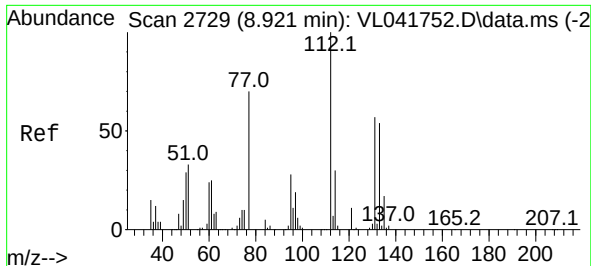
Ion Ratio Lower Upper

131 100

133 0.0 76.8 115.2#

119 0.0 49.0 73.6#





#57

Chlorobenzene

Concen: 0.129 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

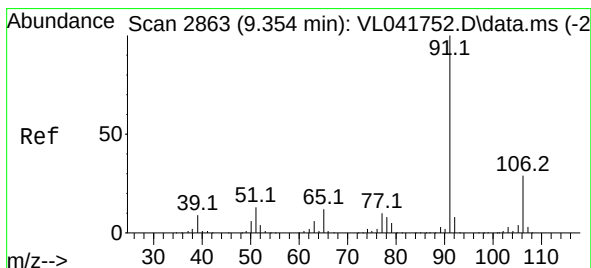
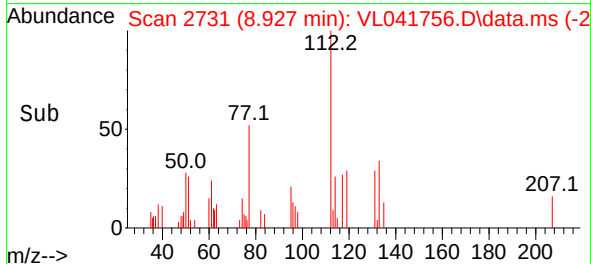
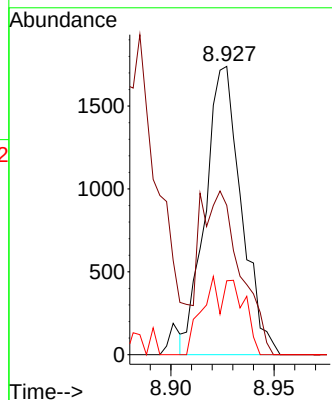
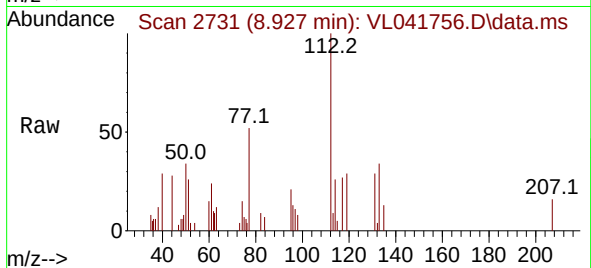
Tgt Ion:112 Resp: 2102

Ion Ratio Lower Upper

112 100

77 51.8 57.4 86.0#

114 25.6 27.4 33.4#



#58

Ethyl Benzene

Concen: 0.093 ppbv

RT: 9.357 min Scan# 2864

Delta R.T. 0.003 min

Lab File: VL041756.D

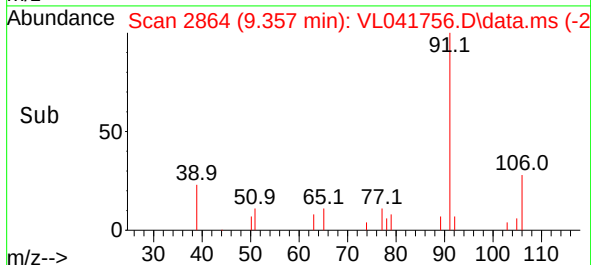
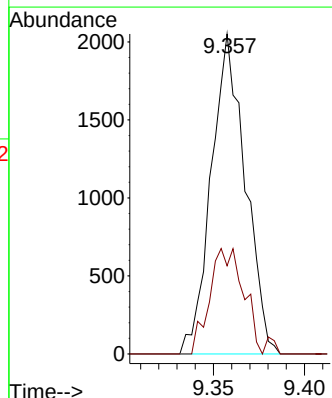
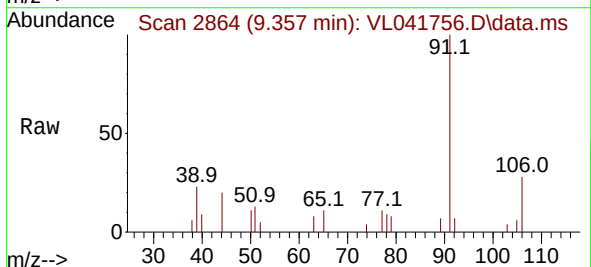
Acq: 16 Dec 2024 15:37

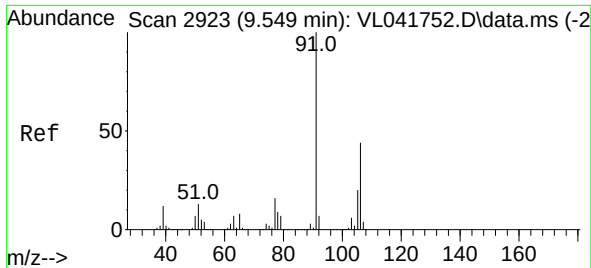
Tgt Ion: 91 Resp: 2667

Ion Ratio Lower Upper

91 100

106 27.5 23.5 35.3

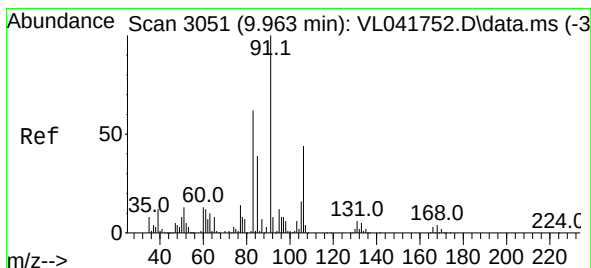
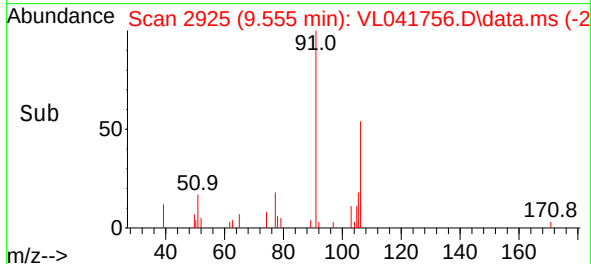
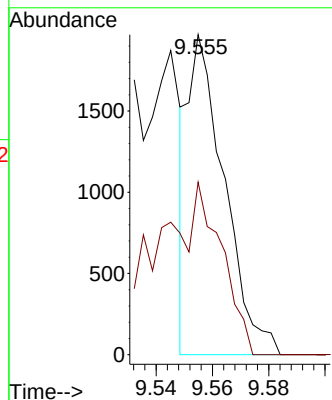
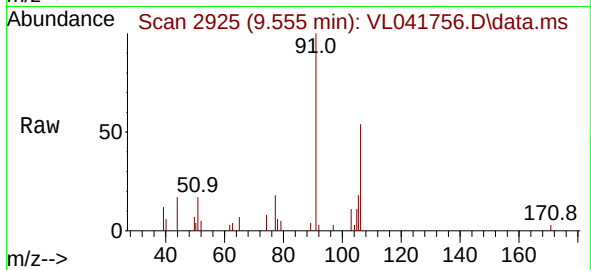




#59
m/p-Xylene
Concen: 0.077 ppbv
RT: 9.555 min Scan# 2923
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

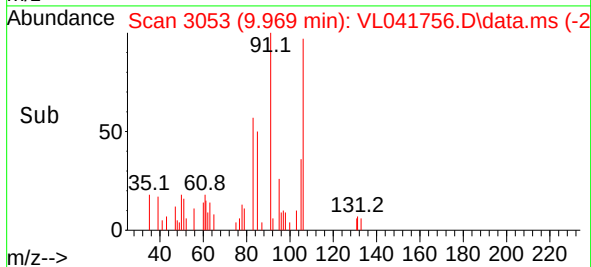
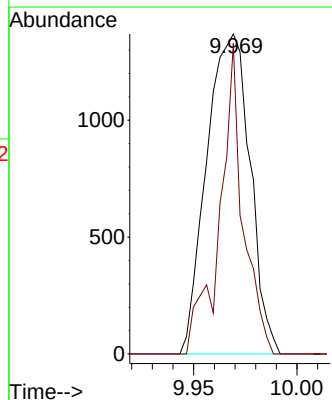
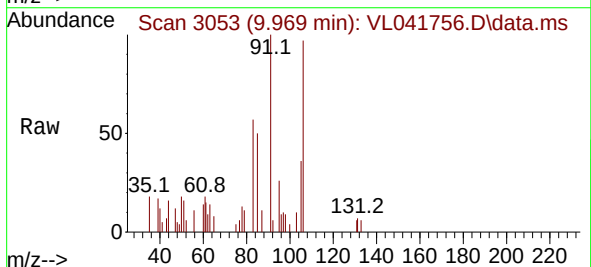
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

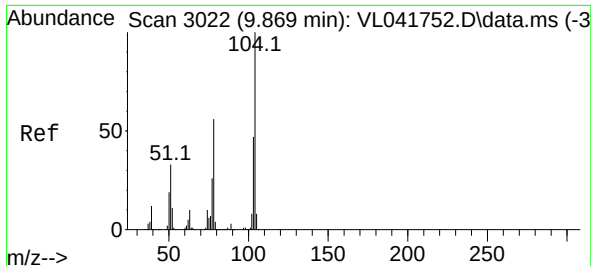
Tgt Ion: 91 Resp: 1768
Ion Ratio Lower Upper
91 100
106 110.7 0.0 0.0#



#60
o-Xylene
Concen: 0.087 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion: 91 Resp: 1998
Ion Ratio Lower Upper
91 100
106 52.4 21.1 63.4

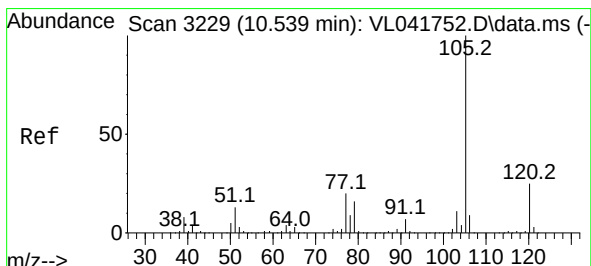
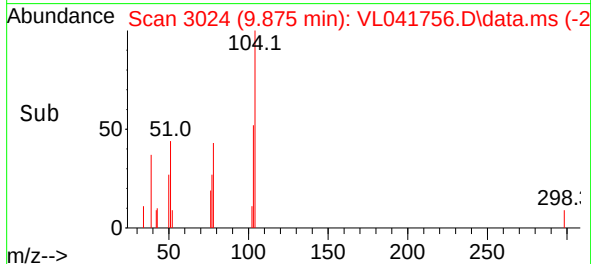
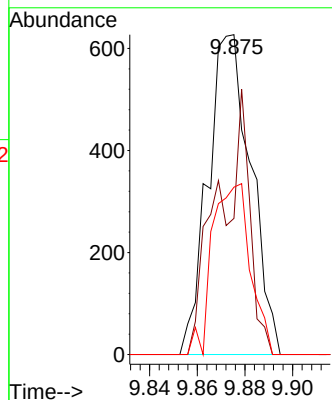
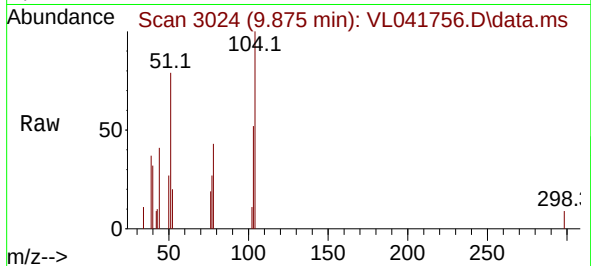




#61
Styrene
Concen: 0.079 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

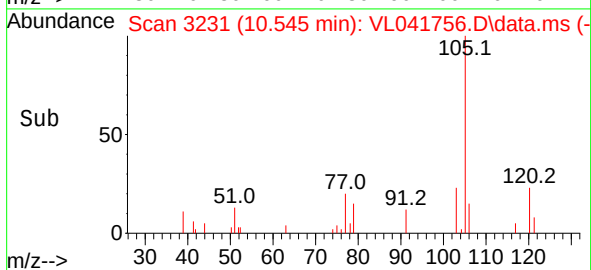
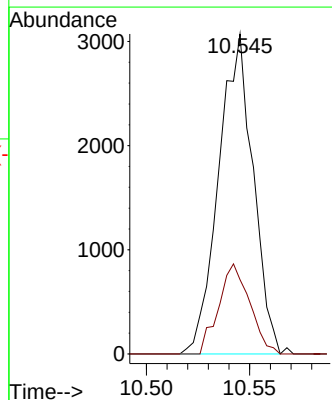
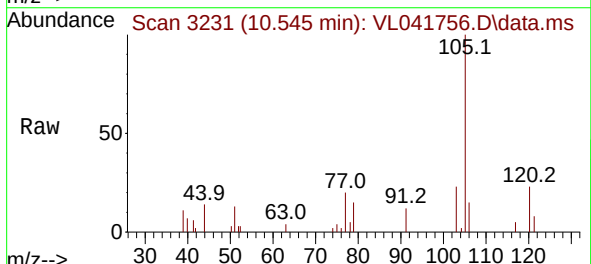
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

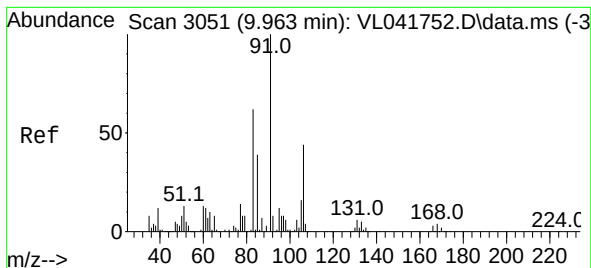
Tgt Ion:104 Resp: 785
Ion Ratio Lower Upper
104 100
78 59.5 43.8 65.6
103 47.1 37.8 56.6



#62
Isopropylbenzene
Concen: 0.103 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion:105 Resp: 3559
Ion Ratio Lower Upper
105 100
120 25.5 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.041 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

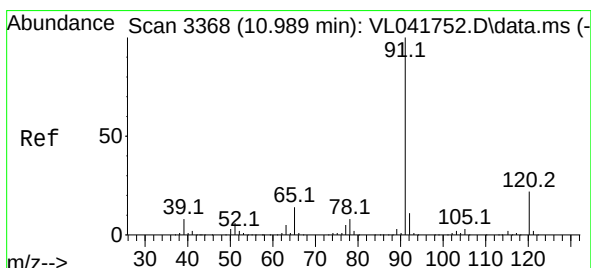
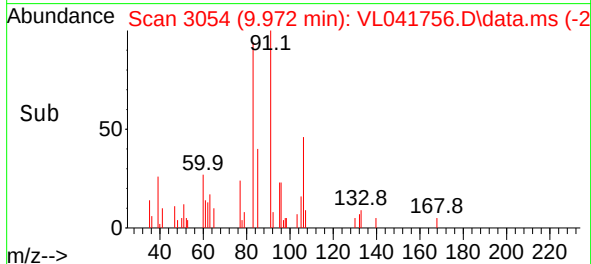
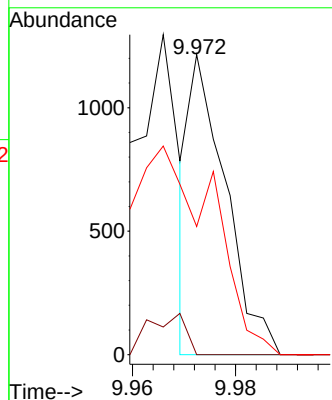
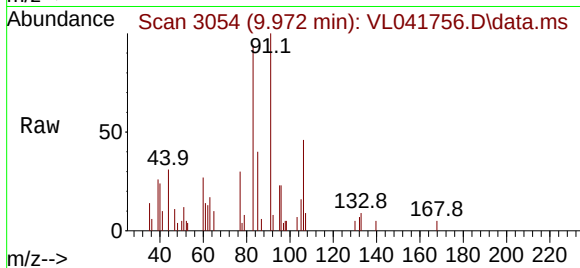
Tgt Ion: 83 Resp: 592

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 32.0 96.2#



#64

n-propylbenzene

Concen: 0.086 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL041756.D

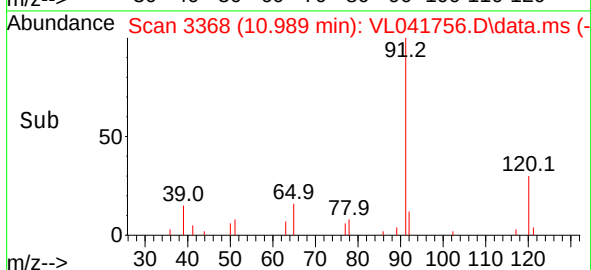
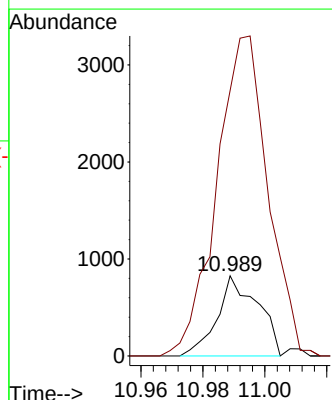
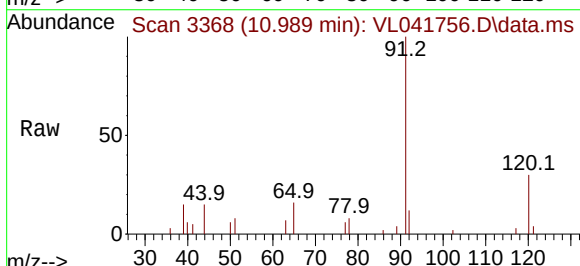
Acq: 16 Dec 2024 15:37

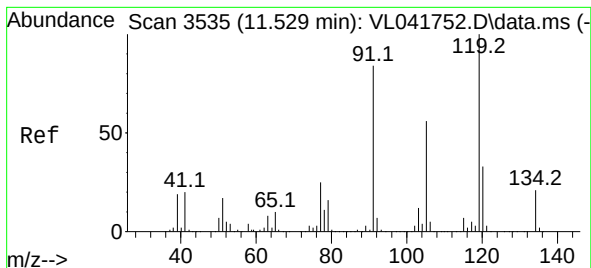
Tgt Ion:120 Resp: 754

Ion Ratio Lower Upper

120 100

91 502.7 387.3 580.9





#65

tert-Butylbenzene

Concen: 0.092 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

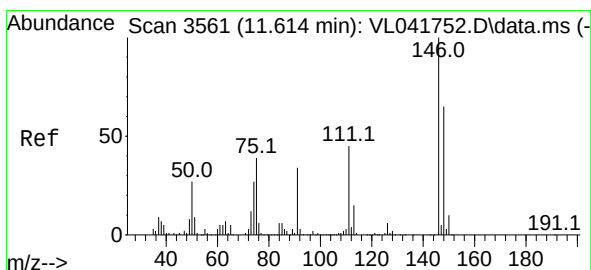
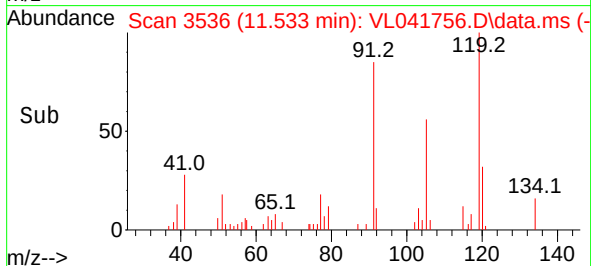
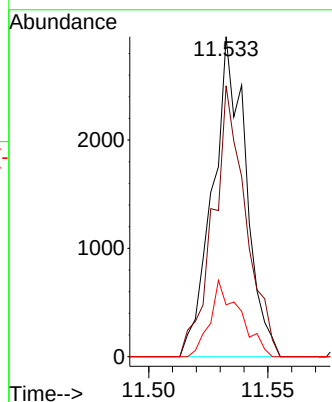
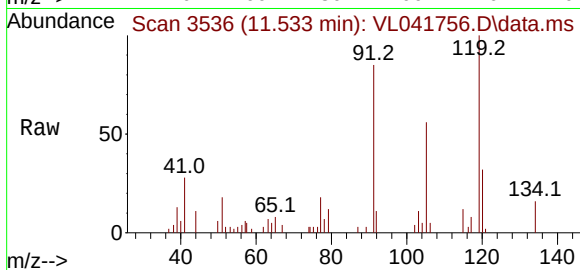
Tgt Ion:119 Resp: 2861

Ion Ratio Lower Upper

119 100

91 83.0 67.0 100.4

134 21.4 16.5 24.7



#66

Benzyl Chloride

Concen: 0.056 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

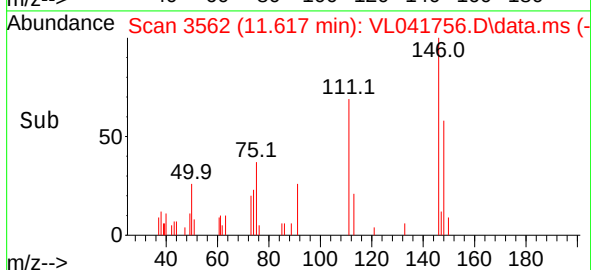
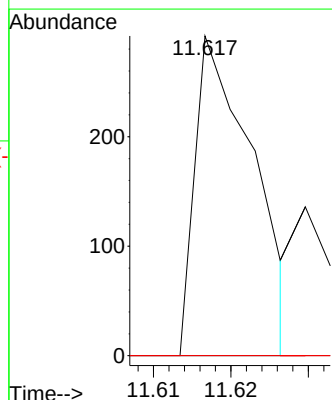
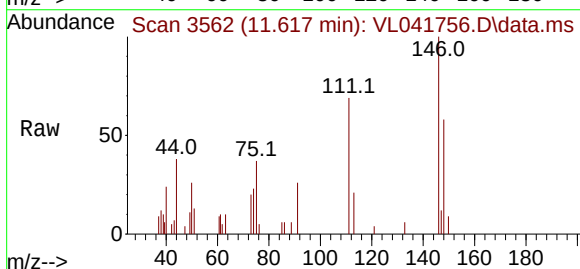
Tgt Ion: 91 Resp: 154

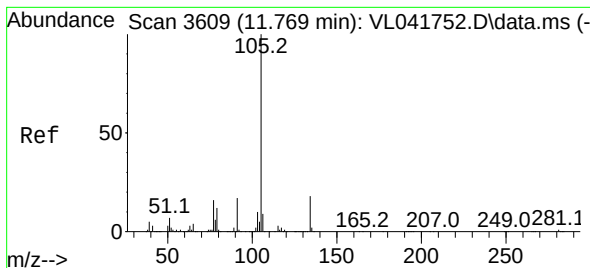
Ion Ratio Lower Upper

91 100

126 0.0 13.9 20.9#

128 0.0 4.4 6.6#

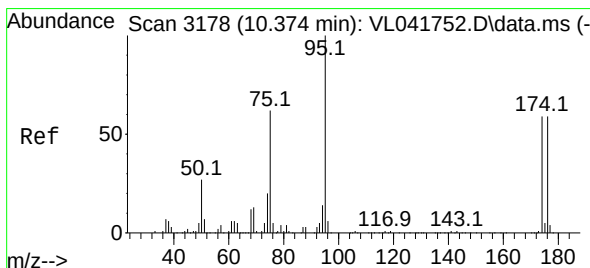
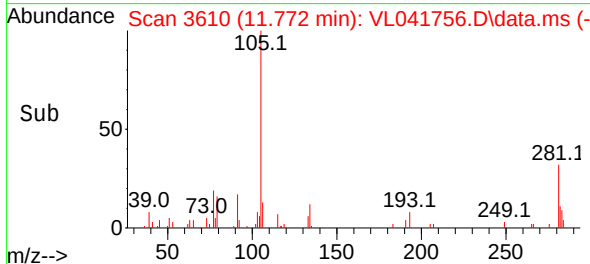
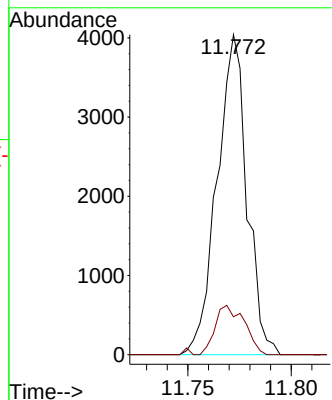
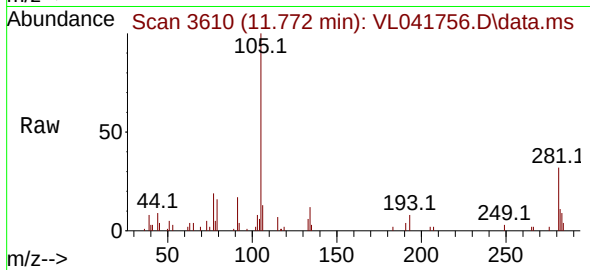




#67
 sec-Butylbenzene
 Concen: 0.094 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

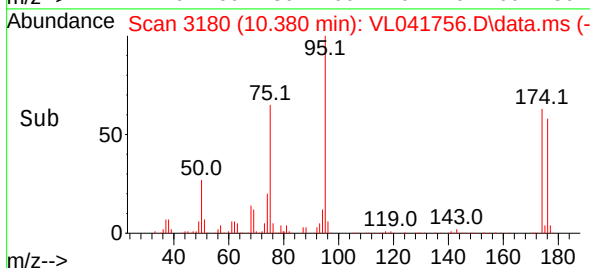
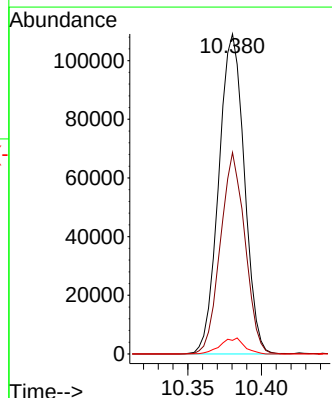
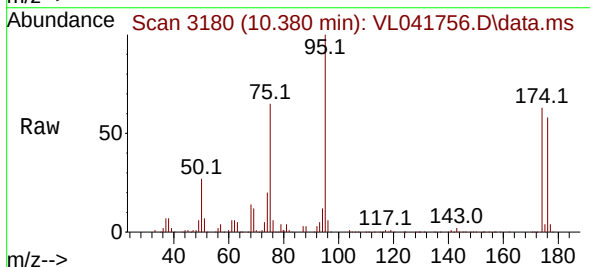
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

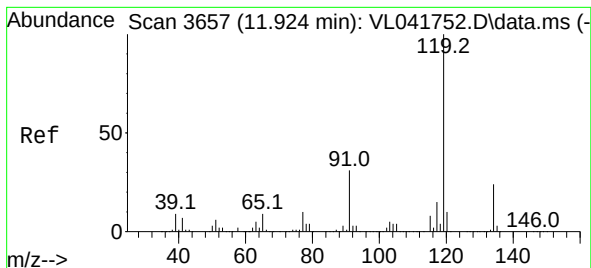
Tgt Ion:105 Resp: 4061
 Ion Ratio Lower Upper
 105 100
 134 15.5 14.5 21.7



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.950 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.006 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

Tgt Ion: 95 Resp: 131540
 Ion Ratio Lower Upper
 95 100
 174 60.6 47.6 71.4
 175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.086 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

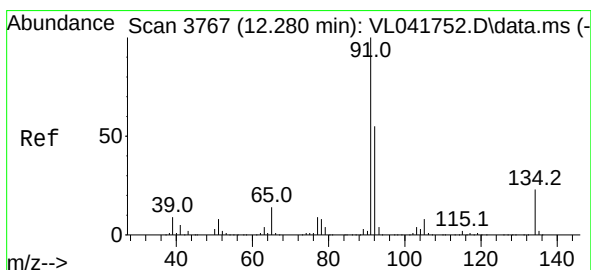
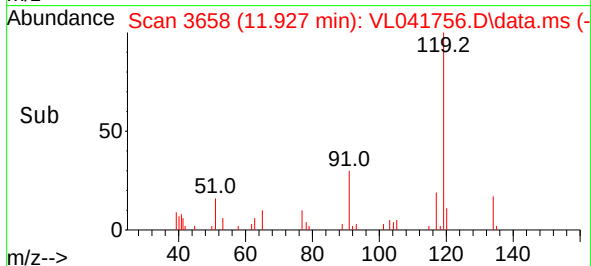
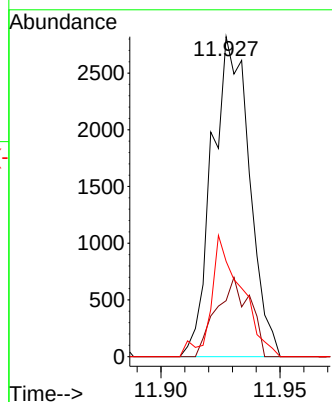
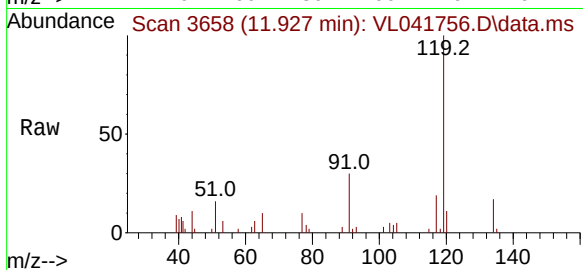
Tgt Ion:119 Resp: 3070

Ion Ratio Lower Upper

119 100

134 22.1 19.6 29.4

91 30.7 24.4 36.6



#70

n-Butylbenzene

Concen: 0.082 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

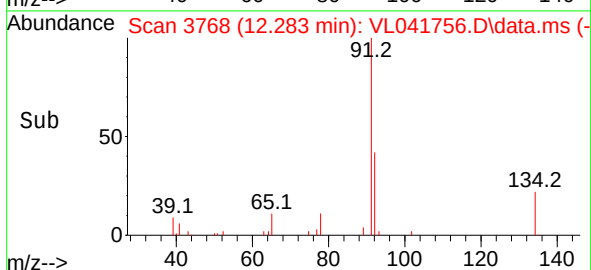
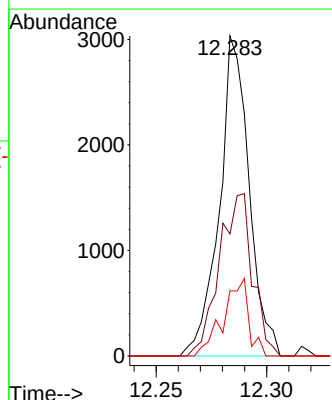
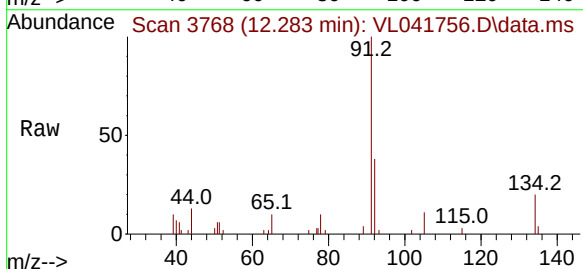
Tgt Ion: 91 Resp: 2829

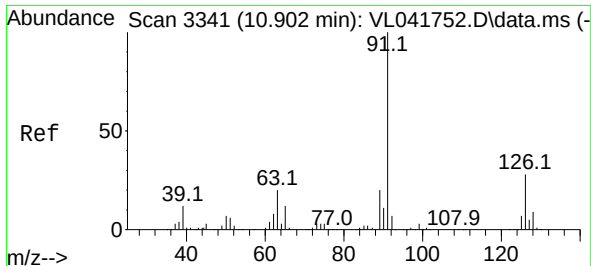
Ion Ratio Lower Upper

91 100

92 56.9 43.2 64.8

134 20.7 18.2 27.4





#71

2-Chlorotoluene

Concen: 0.103 ppbv

RT: 10.905 min Scan# 3341

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

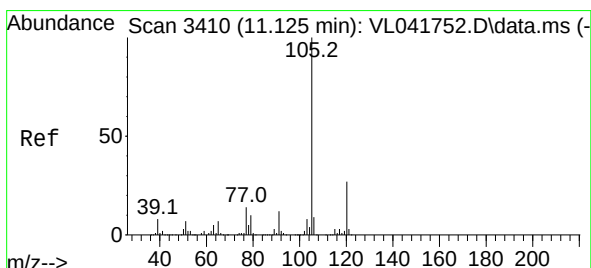
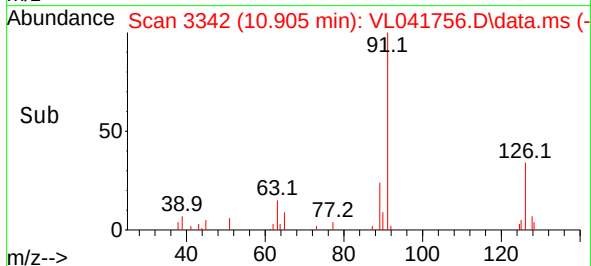
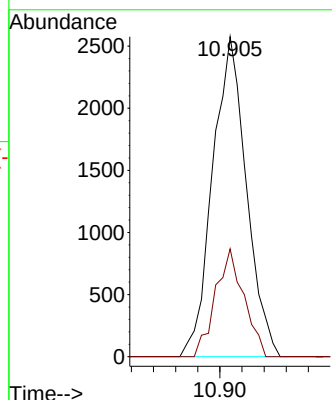
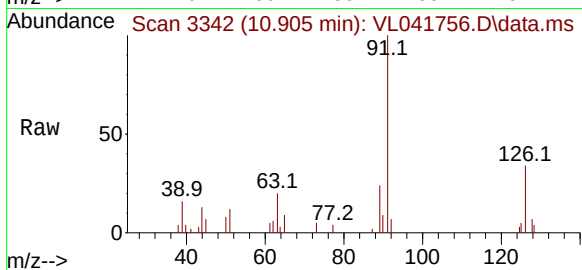
VSTDIC0.1

Tgt Ion: 91 Resp: 2731

Ion Ratio Lower Upper

91 100

126 28.3 11.6 46.4



#72

4-Ethyltoluene

Concen: 0.081 ppbv

RT: 11.125 min Scan# 3410

Delta R.T. -0.000 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion: 105 Resp: 2197

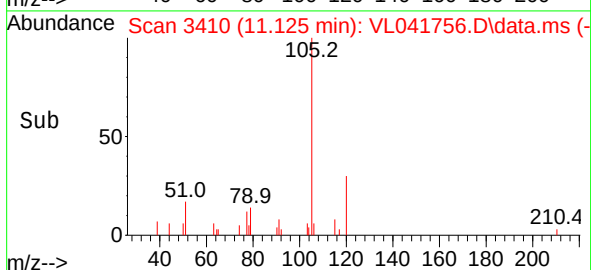
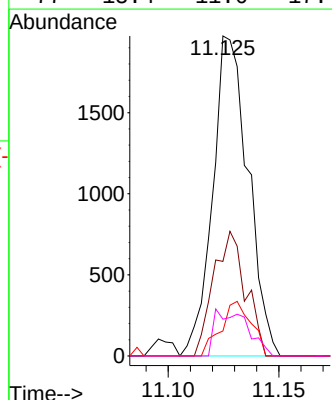
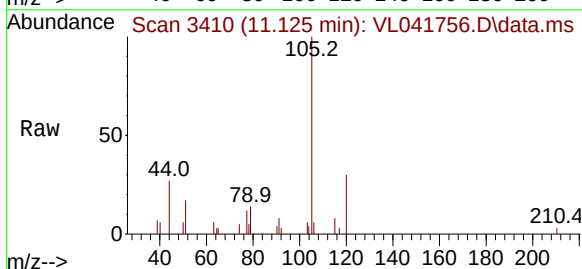
Ion Ratio Lower Upper

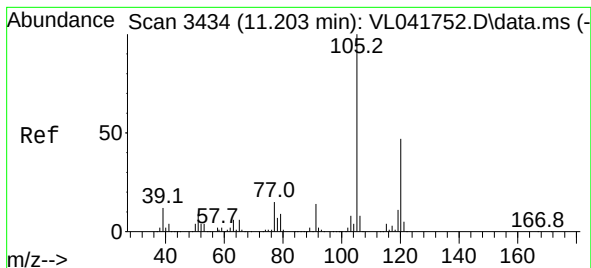
105 100

120 35.4 23.3 34.9#

91 14.6 10.9 16.3

77 13.4 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.092 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

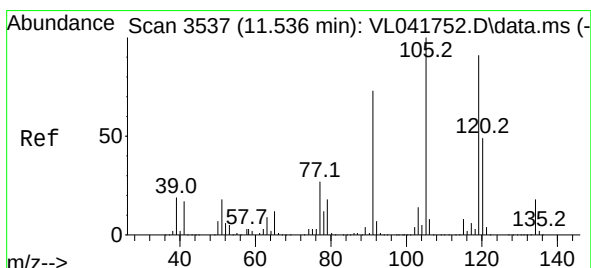
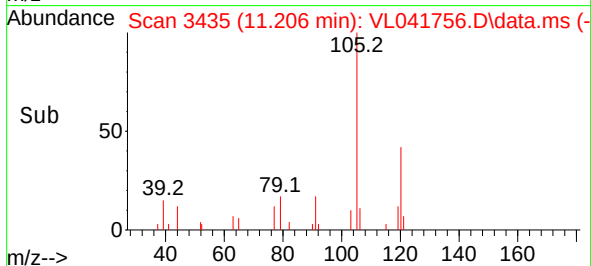
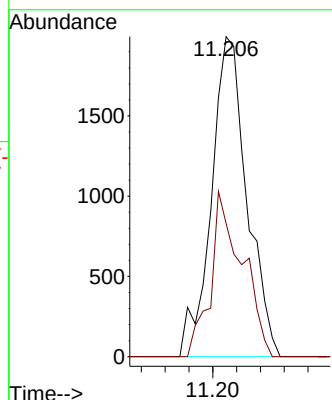
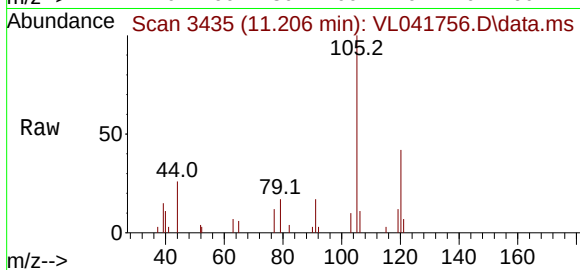
VSTDIC0.1

Tgt Ion:105 Resp: 2072

Ion Ratio Lower Upper

105 100

120 41.6 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 0.090 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion:105 Resp: 2190

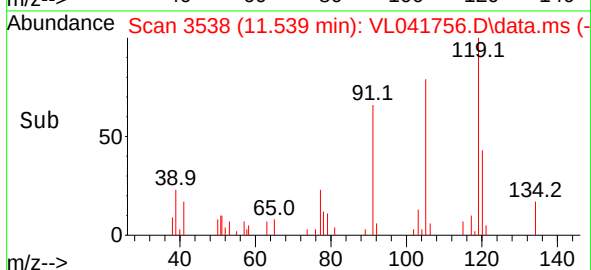
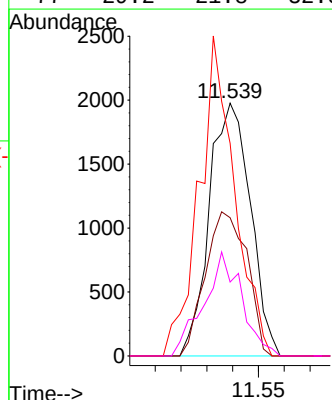
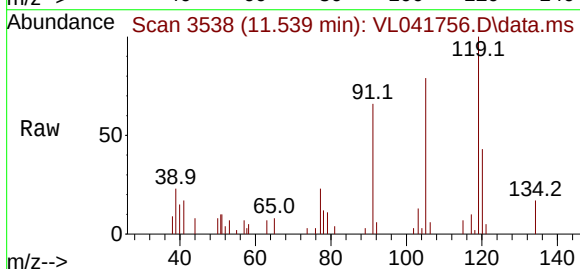
Ion Ratio Lower Upper

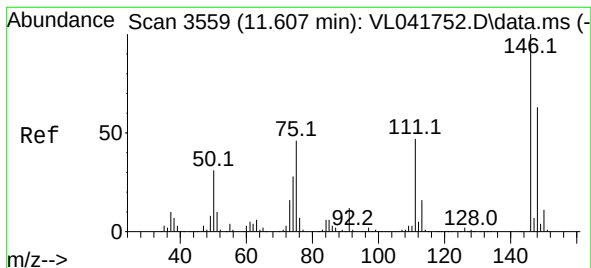
105 100

120 54.7 39.0 58.4

91 84.1 58.1 87.1

77 29.2 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 0.119 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

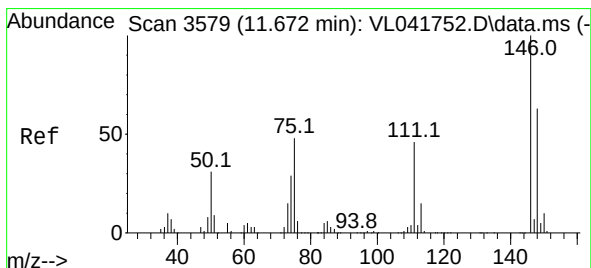
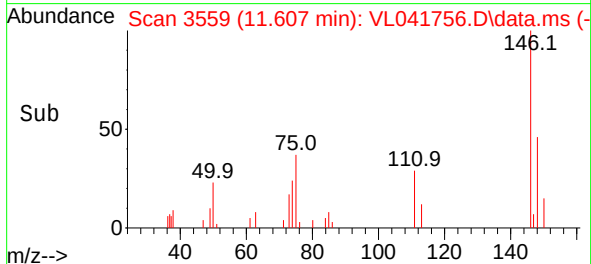
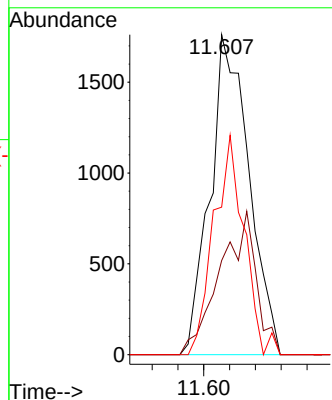
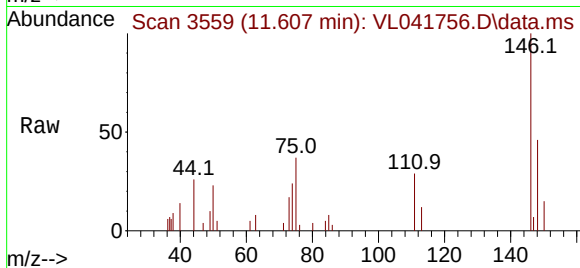
Tgt Ion:146 Resp: 1843

Ion Ratio Lower Upper

146 100

111 41.8 23.4 70.3

148 53.5 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 0.104 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

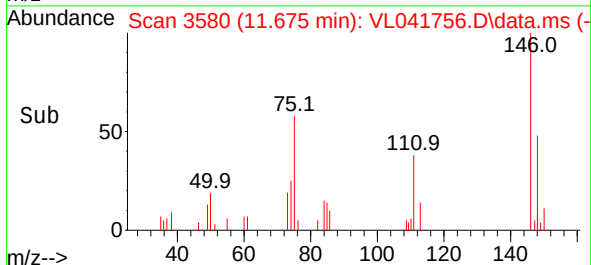
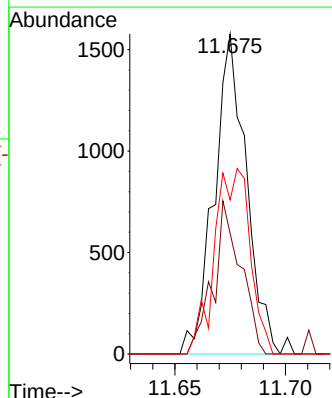
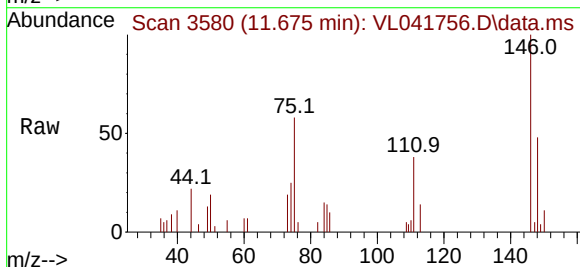
Tgt Ion:146 Resp: 1590

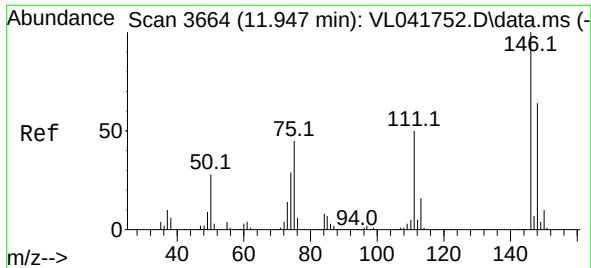
Ion Ratio Lower Upper

146 100

111 41.1 22.7 68.1

148 64.4 31.4 94.0

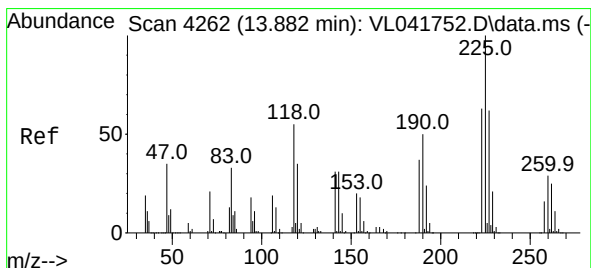
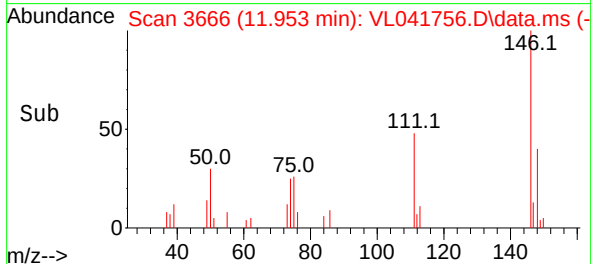
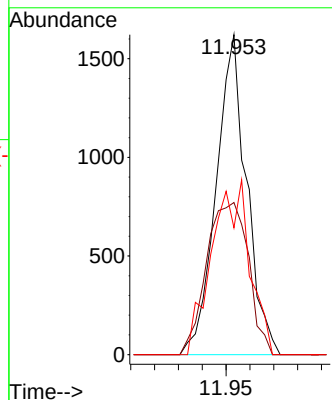
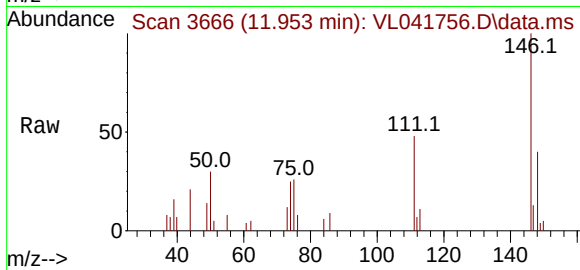




#77
1,2-Dichlorobenzene
Concen: 0.097 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

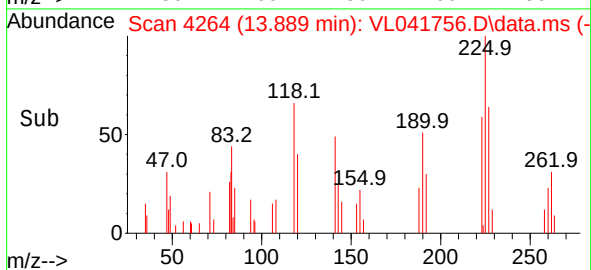
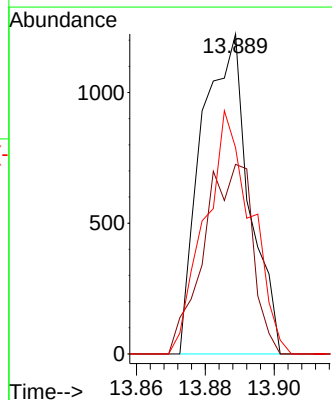
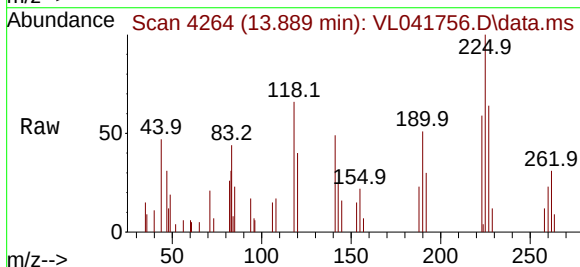
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

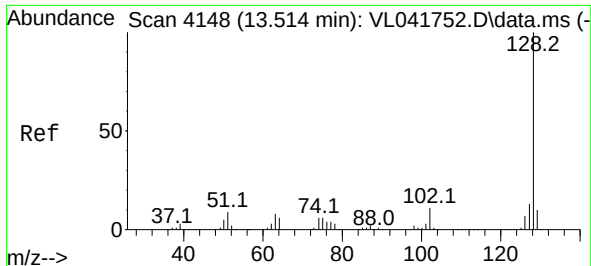
Tgt Ion:146 Resp: 1439
Ion Ratio Lower Upper
146 100
111 65.5 24.8 74.3
148 67.1 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 0.106 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Tgt Ion:225 Resp: 1172
Ion Ratio Lower Upper
225 100
223 61.4 50.5 75.7
227 74.2 50.3 75.5





#79

Naphthalene

Concen: 0.071 ppbv

RT: 13.523 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

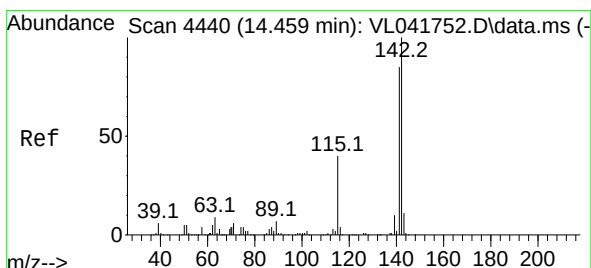
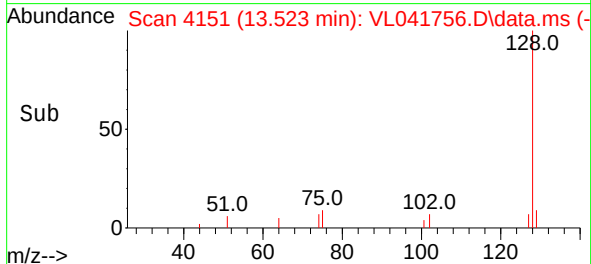
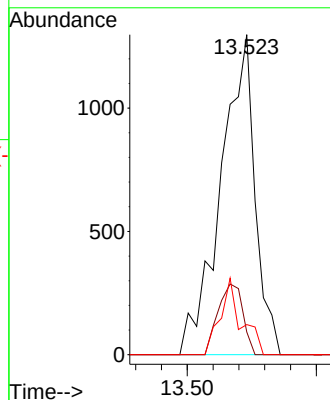
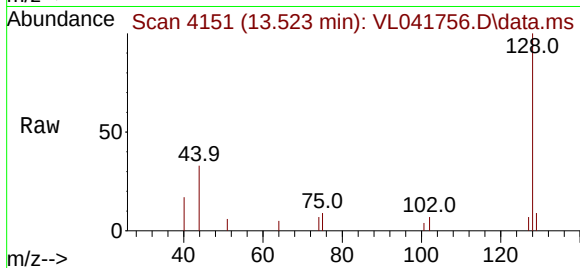
Tgt Ion:128 Resp: 1196

Ion Ratio Lower Upper

128 100

127 7.1 10.7 16.1#

129 9.4 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 0.024 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.010 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

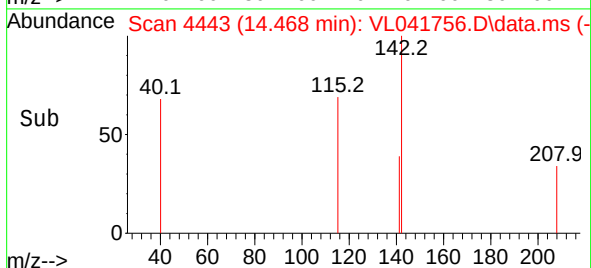
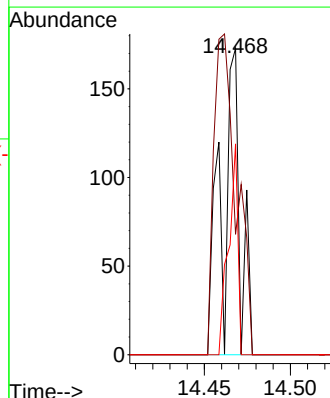
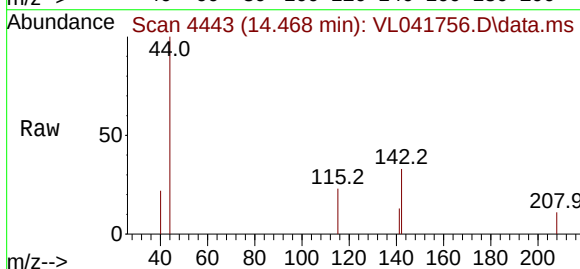
Tgt Ion:142 Resp: 124

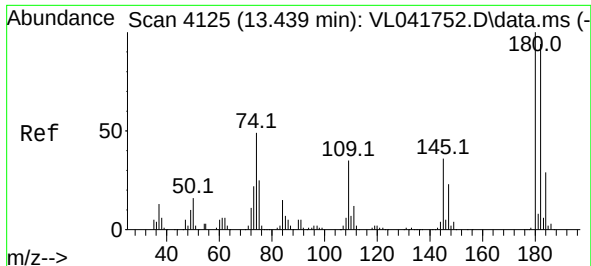
Ion Ratio Lower Upper

142 100

141 131.5 68.4 102.6#

115 36.3 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 0.101 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041756.D

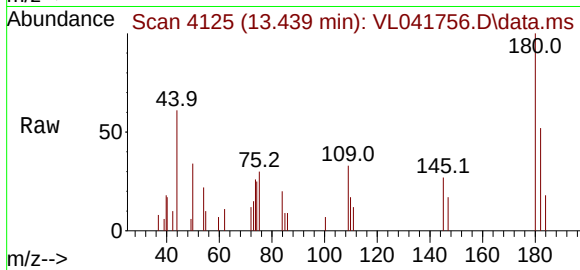
Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



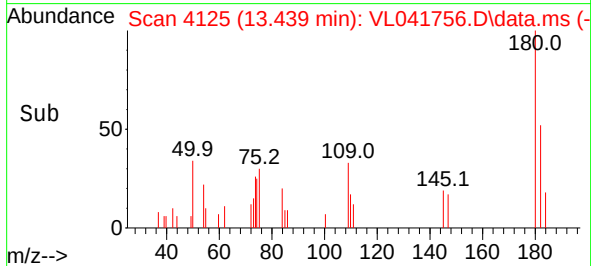
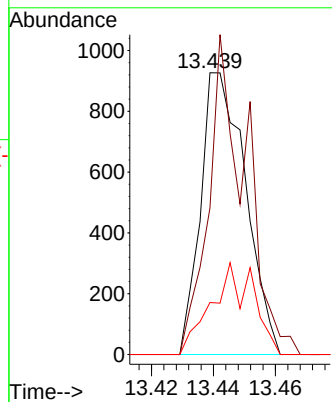
Tgt Ion:180 Resp: 931

Ion Ratio Lower Upper

180 100

182 94.5 77.0 115.6

184 30.2 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041757.D
 Acq On : 16 Dec 2024 16:08
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	174825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	154998	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	128167	9.923	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.554	85	406	0.036	ppbv	94
3) Chlorodifluoromethane	1.612	51	255	0.024	ppbv	95
4) Chloromethane	1.534	50	285	0.064	ppbv	99
5) Vinyl Chloride	1.580	62	175	0.039	ppbv #	84
6) Bromomethane	1.667	94	155	0.073	ppbv #	64
7) Chloroethane	1.706	64	62	0.035	ppbv #	1
8) Dichlorotetrafluoroethane	1.554	85	406	0.040	ppbv #	74
9) Propene	1.482	41	413	0.091	ppbv #	78
10) Heptane	4.991	43	172	0.015	ppbv #	80
11) Trichlorofluoromethane	1.877	101	560	0.046	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.143	101	293	0.032	ppbv	95
13) Ethanol	1.722	45	279	0.740	ppbv #	34
14) Bromoethene	1.787	108	66	0.021	ppbv #	1
15) Acetone	1.839	43	2113	0.169	ppbv	95
16) 1,3-Butadiene	1.609	39	252	0.051	ppbv #	36
17) tert-Butyl alcohol	2.046	59	509	0.041	ppbv #	76
18) 1,1-Dichloroethene	2.039	96	103	0.027	ppbv #	52
19) Isopropyl Alcohol	1.890	45	2921	0.390	ppbv #	34
20) Methylene Chloride	2.065	84	613	0.172	ppbv #	61
21) Allyl Chloride	2.097	41	566	0.084	ppbv #	60
22) trans-1,2-Dichloroethene	2.337	96	170	0.038	ppbv #	23
23) Vinyl Acetate	2.460	43	202	0.037	ppbv #	1
24) 1,1-Dichloroethane	2.411	63	378	0.042	ppbv #	88
25) Ethyl Acetate	2.839	43	677	0.029	ppbv #	83
26) Hexane	2.829	57	141	0.016	ppbv #	1
27) Carbon Disulfide	2.152	76	210	0.026	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	114	0.016	ppbv	98
29) Chloroform	2.852	83	444	0.033	ppbv	99
30) Cyclohexane	3.861	84	161	0.021	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	330	0.036	ppbv #	71
32) 1,1,1-Trichloroethane	3.369	97	332	0.025	ppbv #	74
34) 2-Butanone	2.560	43	686	0.049	ppbv	96
35) Carbon Tetrachloride	3.768	117	209	0.017	ppbv	97
36) Benzene	3.657	78	211	0.012	ppbv #	84
37) 1,2-Dichloroethane	3.217	62	357	0.032	ppbv #	82
38) Trichloroethene	4.551	130	204	0.027	ppbv #	47
39) 1,2-Dichloropropane	3.955	63	48113	7.356	ppbv #	17
40) 1,4-Dioxane	4.635	88	26	0.008	ppbv #	1
41) Tetrahydrofuran	3.049	42	55	0.007	ppbv #	39
42) Bromodichloromethane	4.480	83	168	0.013	ppbv #	44
43) Methyl Methacrylate	4.907	69	39	0.006	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	425	0.014	ppbv #	2
45) t-1,3-Dichloropropene	6.418	75	74	0.010	ppbv #	42

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041757.D
 Acq On : 16 Dec 2024 16:08
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

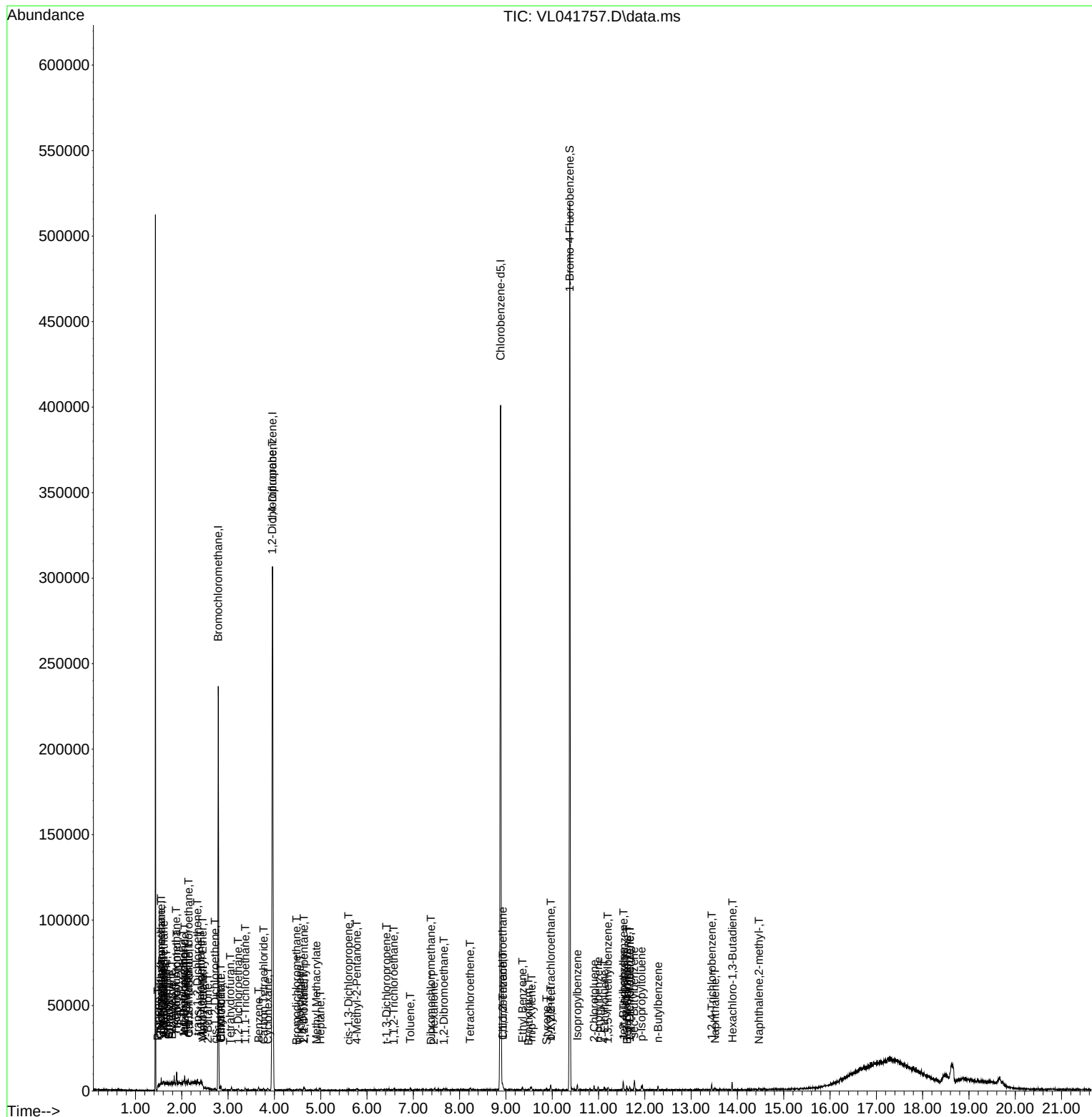
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	67	0.007	ppbv #	67
47) 1,1,2-Trichloroethane	6.580	97	59	0.009	ppbv #	50
48) Dibromochloromethane	7.383	129	117	0.013	ppbv	85
49) Bromoform	9.487	173	118	0.015	ppbv	92
50) 4-Methyl-2-Pentanone	5.777	43	350	0.018	ppbv #	41
51) 2-Hexanone	7.441	43	97	0.006	ppbv #	31
52) Tetrachloroethene	8.224	164	135	0.020	ppbv #	76
53) Toluene	6.933	91	304	0.015	ppbv #	21
54) 1,2-Dibromoethane	7.661	107	213	0.023	ppbv #	42
56) 1,1,1,2-Tetrachloroethane	8.930	131	86	0.010	ppbv #	1
57) Chlorobenzene	8.933	112	114	0.007	ppbv #	70
58) Ethyl Benzene	9.357	91	516	0.018	ppbv	91
59) m/p-Xylene	9.551	91	500	0.022	ppbv #	100
60) o-Xylene	9.966	91	796	0.035	ppbv	83
61) Styrene	9.875	104	267	0.027	ppbv #	74
62) Isopropylbenzene	10.542	105	1186	0.035	ppbv	92
63) 1,1,2,2-Tetrachloroethane	9.969	83	455	0.032	ppbv #	96
64) n-propylbenzene	10.998	120	126	0.015	ppbv #	1
65) tert-Butylbenzene	11.535	119	444	0.015	ppbv #	1
66) Benzyl Chloride	11.620	91	43	0.016	ppbv #	66
67) sec-Butylbenzene	11.769	105	1194	0.028	ppbv #	86
69) p-Isopropyltoluene	11.927	119	781	0.022	ppbv #	87
70) n-Butylbenzene	12.290	91	344	0.010	ppbv #	1
71) 2-Chlorotoluene	10.908	91	428	0.017	ppbv #	57
72) 4-Ethyltoluene	11.131	105	424	0.016	ppbv #	75
73) 1,3,5-Trimethylbenzene	11.202	105	540	0.025	ppbv	87
74) 1,2,4-Trimethylbenzene	11.542	105	724	0.031	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	613	0.041	ppbv	78
76) 1,4-Dichlorobenzene	11.675	146	547	0.037	ppbv	86
77) 1,2-Dichlorobenzene	11.675	146	547	0.038	ppbv	83
78) Hexachloro-1,3-Butadiene	13.892	225	112	0.010	ppbv #	19
79) Naphthalene	13.516	128	540	0.033	ppbv #	69
80) Naphthalene,2-methyl-	14.465	142	206	0.040	ppbv #	77
81) 1,2,4-Trichlorobenzene	13.445	180	586	0.065	ppbv #	87

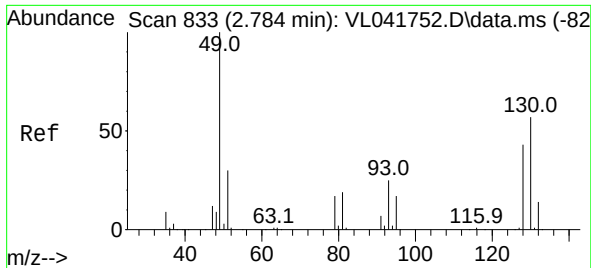
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041757.D
 Acq On : 16 Dec 2024 16:08
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

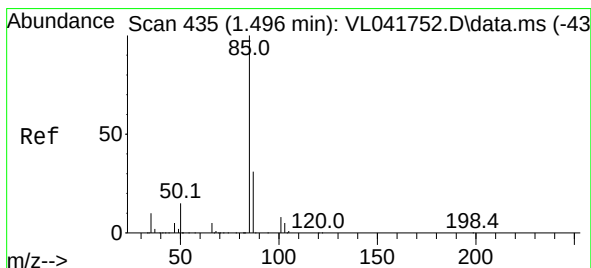
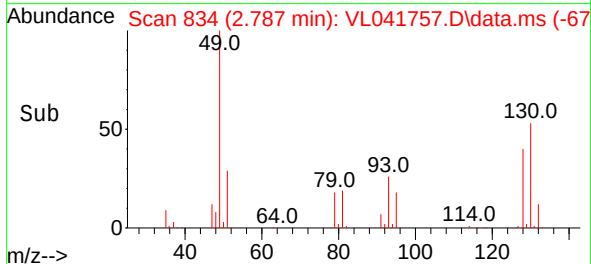
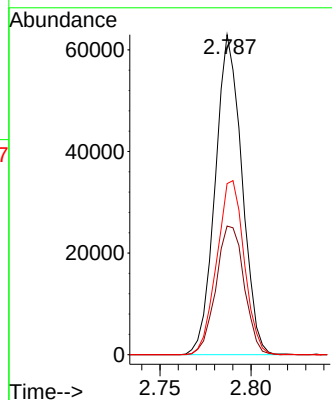
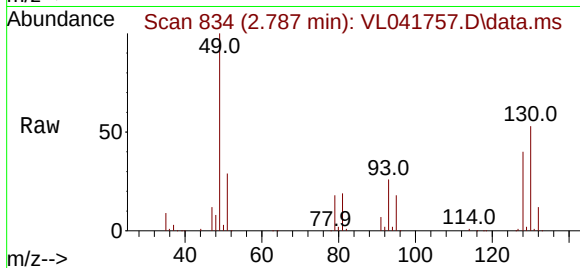




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. 0.003 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

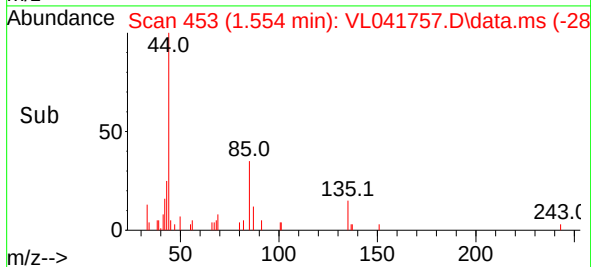
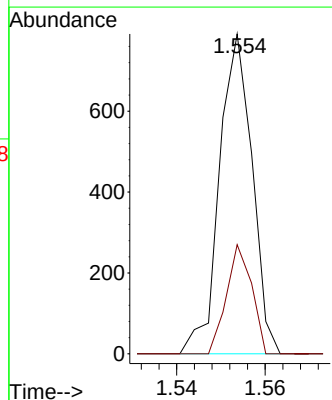
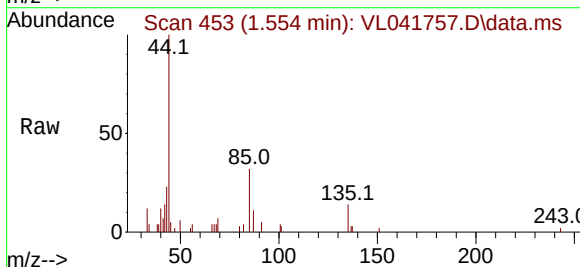
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

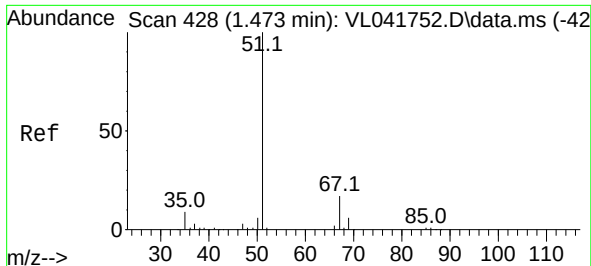
Tgt Ion: 49 Resp: 64158
 Ion Ratio Lower Upper
 49 100
 128 42.4 21.6 64.6
 130 56.0 28.3 85.0



#2
 Dichlorodifluoromethane
 Concen: 0.036 ppbv
 RT: 1.554 min Scan# 453
 Delta R.T. 0.058 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

Tgt Ion: 85 Resp: 406
 Ion Ratio Lower Upper
 85 100
 87 34.1 24.5 36.7

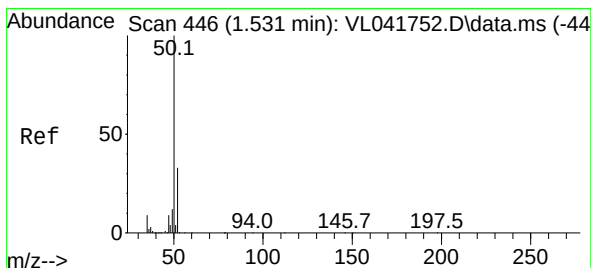
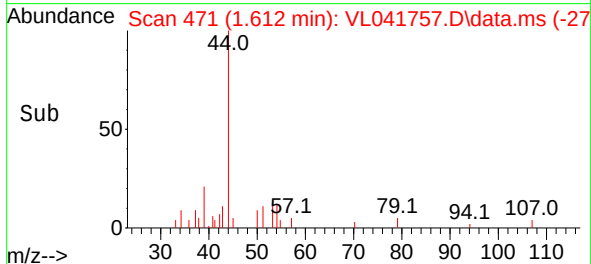
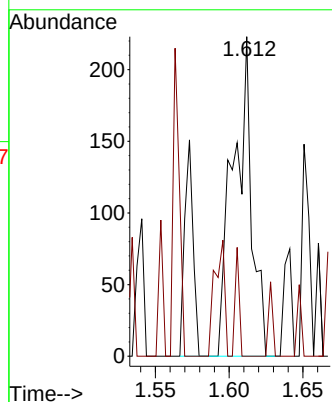
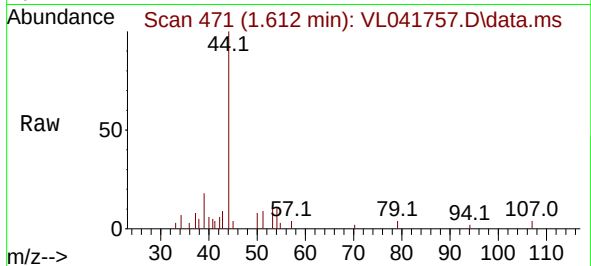




#3
Chlorodifluoromethane
Concen: 0.024 ppbv
RT: 1.612 min Scan# 41
Delta R.T. 0.139 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

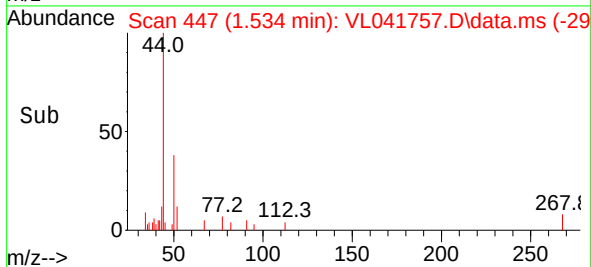
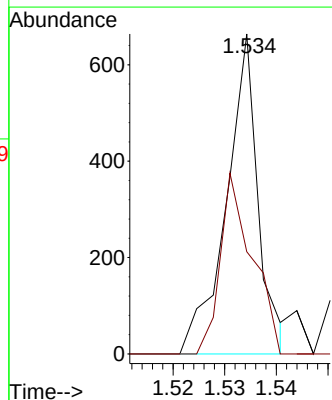
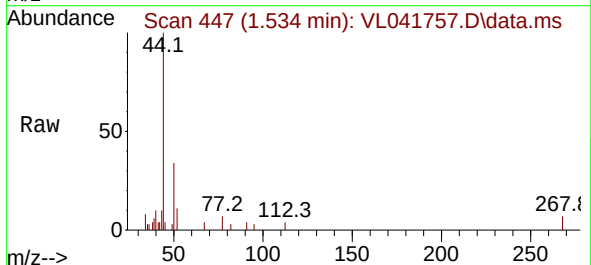
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

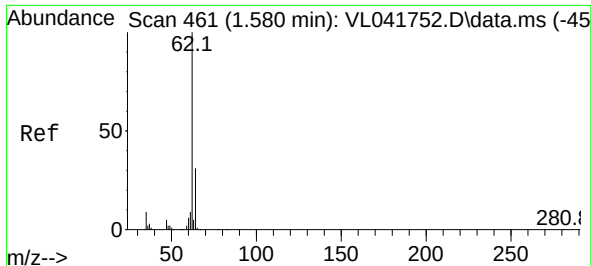
Tgt Ion: 51 Resp: 255
Ion Ratio Lower Upper
51 100
67 20.8 15.0 22.4



#4
Chloromethane
Concen: 0.064 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion: 50 Resp: 285
Ion Ratio Lower Upper
50 100
52 31.9 26.2 39.2

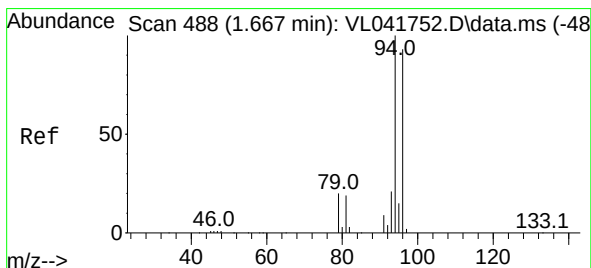
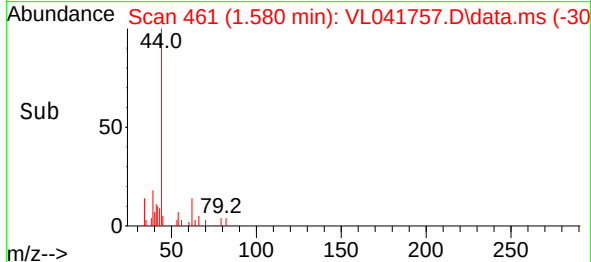
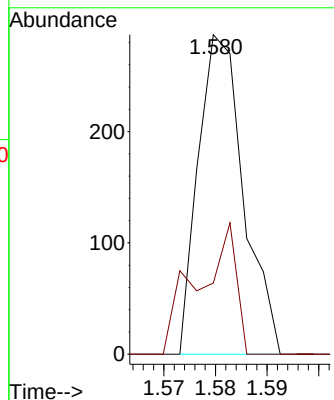
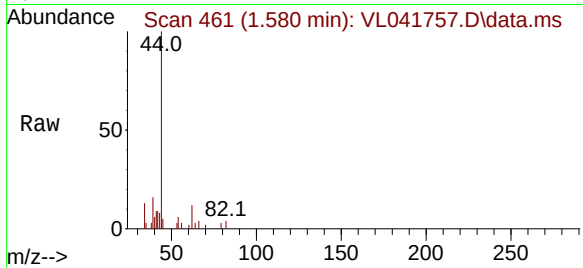




#5
 Vinyl Chloride
 Concen: 0.039 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

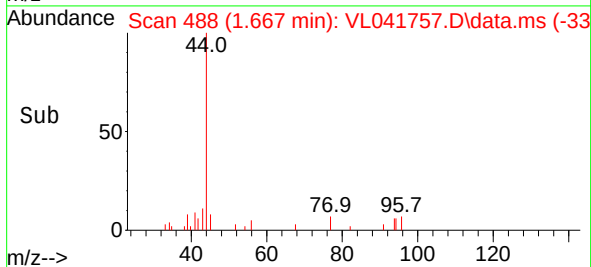
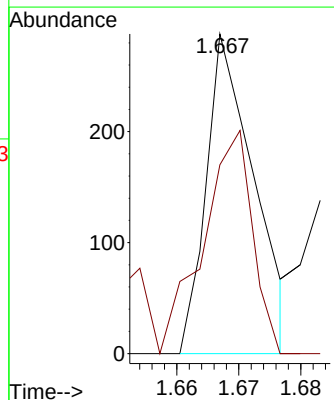
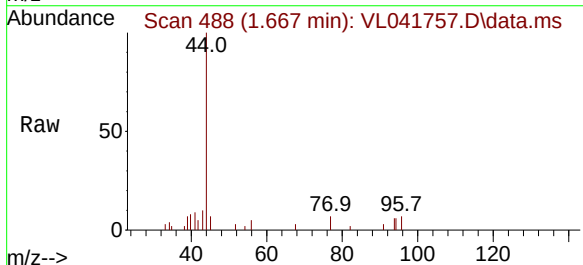
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

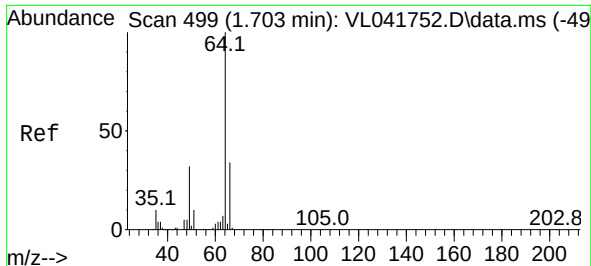
Tgt Ion: 62 Resp: 175
 Ion Ratio Lower Upper
 62 100
 64 22.3 25.1 37.7#



#6
 Bromomethane
 Concen: 0.073 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

Tgt Ion: 94 Resp: 155
 Ion Ratio Lower Upper
 94 100
 96 59.0 74.7 112.1#

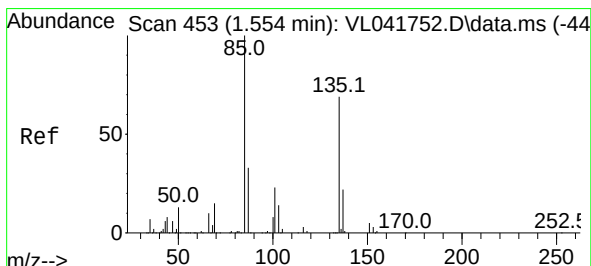
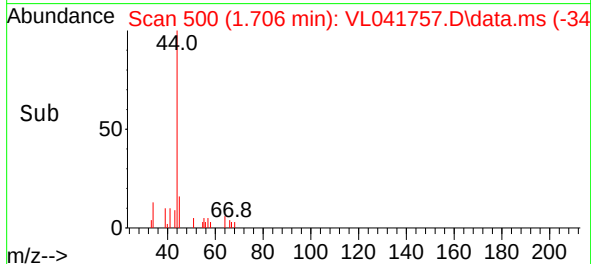
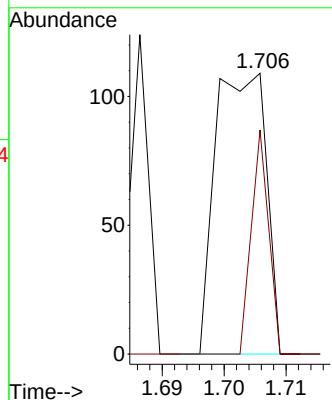
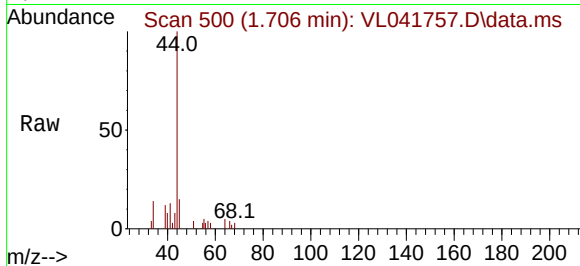




#7
Chloroethane
Concen: 0.035 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

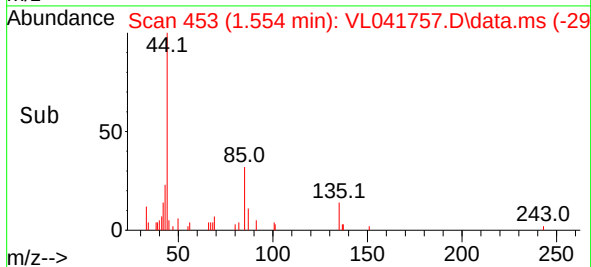
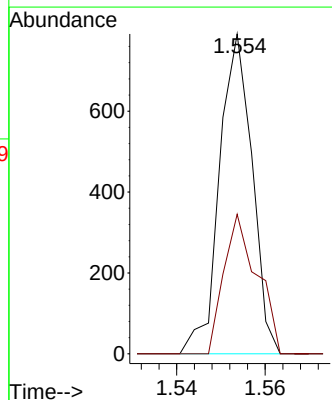
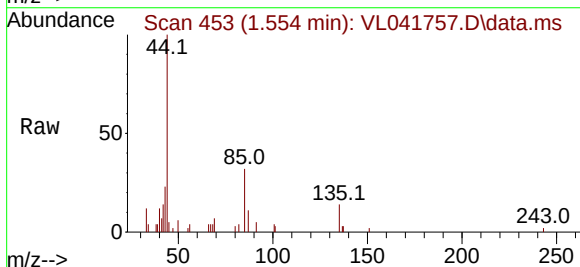
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

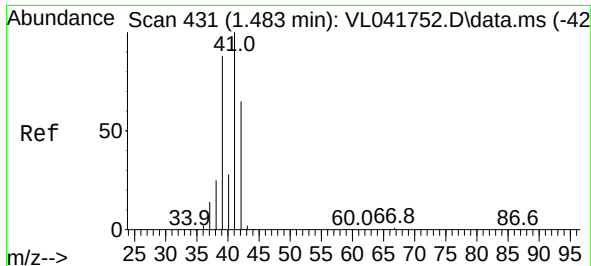
Tgt Ion: 64 Resp: 62
Ion Ratio Lower Upper
64 100
66 127.5 27.5 41.3#



#8
Dichlorotetrafluoroethane
Concen: 0.040 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion: 85 Resp: 406
Ion Ratio Lower Upper
85 100
135 44.3 51.9 77.9#





#9

Propene

Concen: 0.091 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

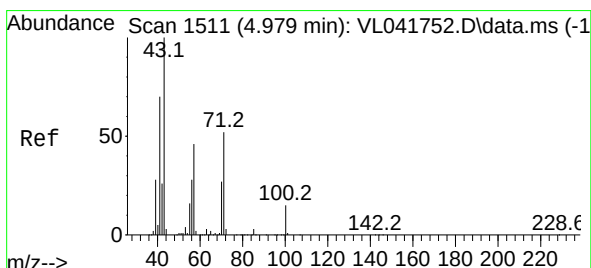
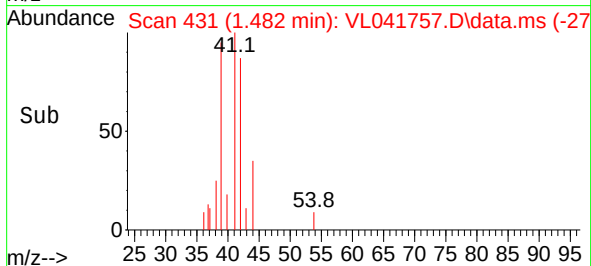
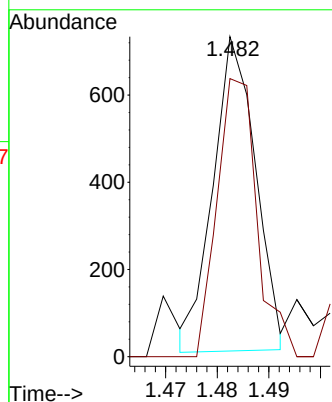
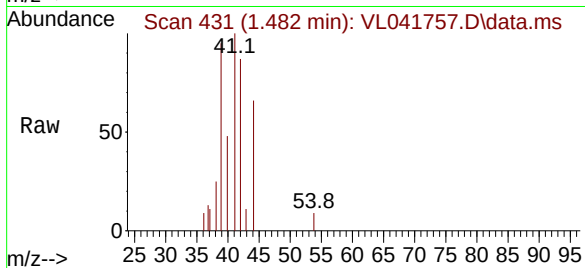
VSTDICC0.03

Tgt Ion: 41 Resp: 413

Ion Ratio Lower Upper

41 100

42 83.3 52.4 78.6#



#10

Heptane

Concen: 0.015 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.012 min

Lab File: VL041757.D

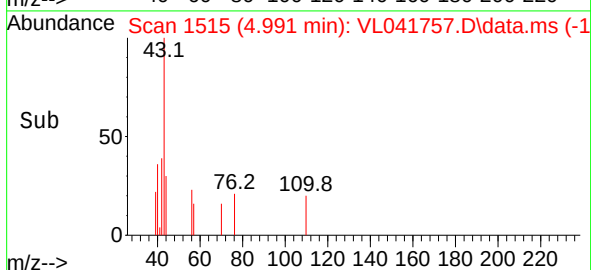
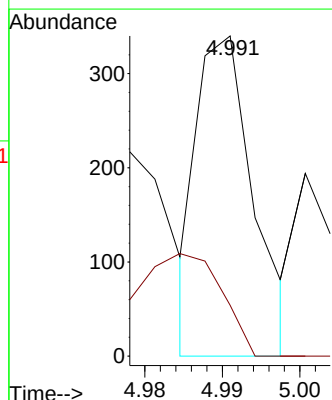
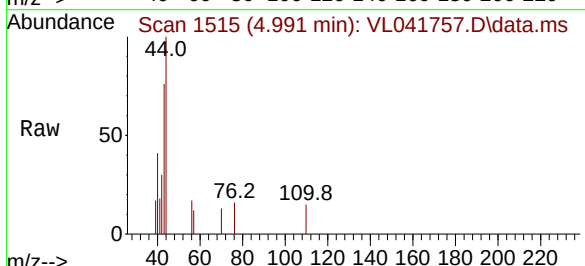
Acq: 16 Dec 2024 16:08

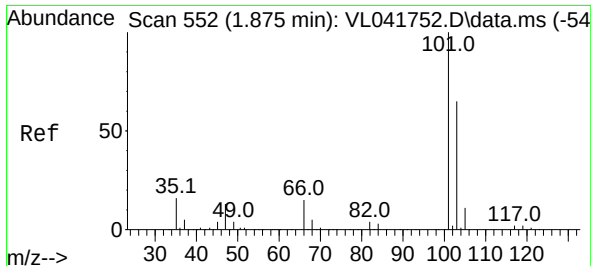
Tgt Ion: 43 Resp: 172

Ion Ratio Lower Upper

43 100

57 61.6 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.046 ppbv

RT: 1.877 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

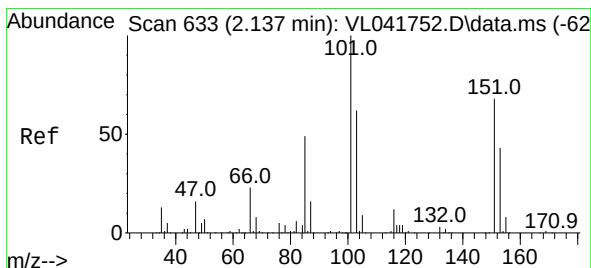
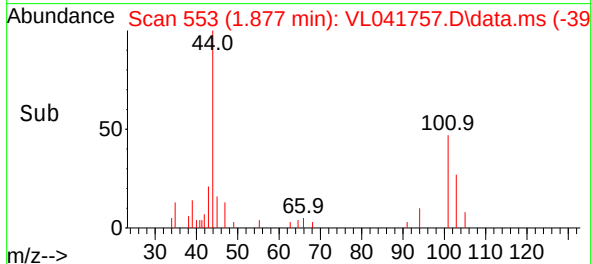
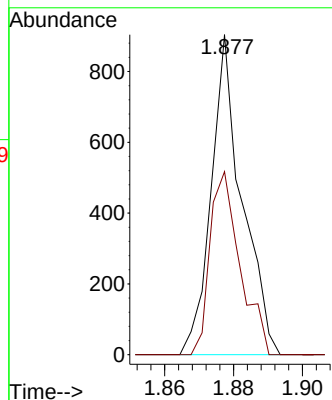
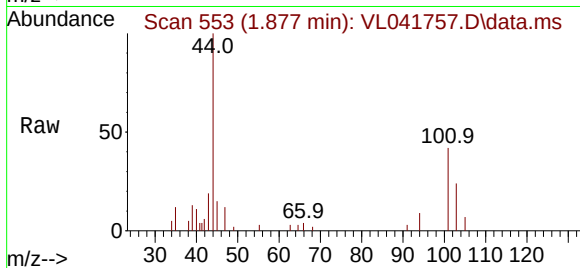
VSTDIC0.03

Tgt Ion:101 Resp: 560

Ion Ratio Lower Upper

101 100

103 57.2 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.032 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.006 min

Lab File: VL041757.D

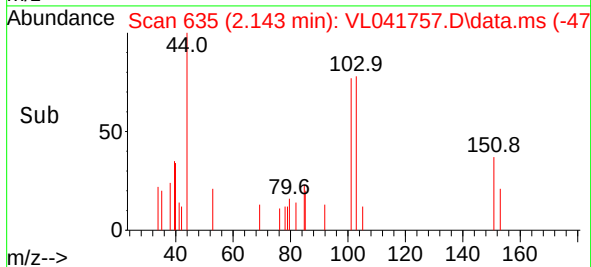
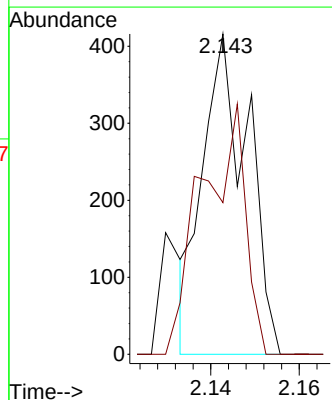
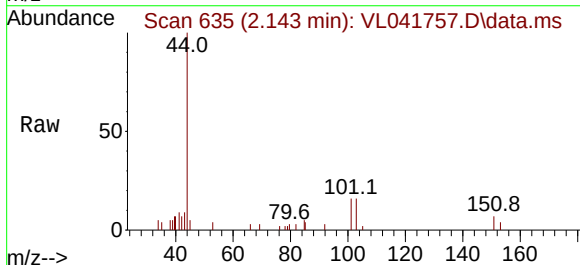
Acq: 16 Dec 2024 16:08

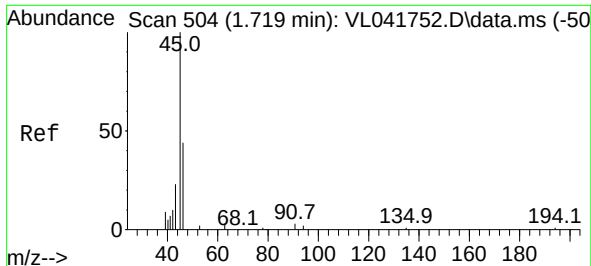
Tgt Ion:101 Resp: 293

Ion Ratio Lower Upper

101 100

151 75.4 56.8 85.2





#13

Ethanol

Concen: 0.740 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

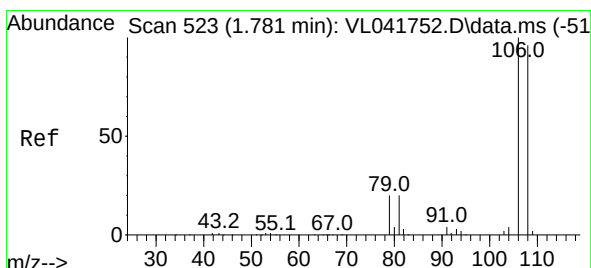
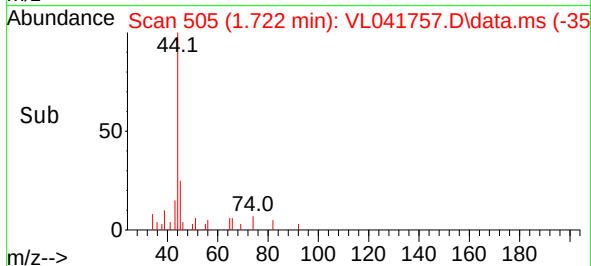
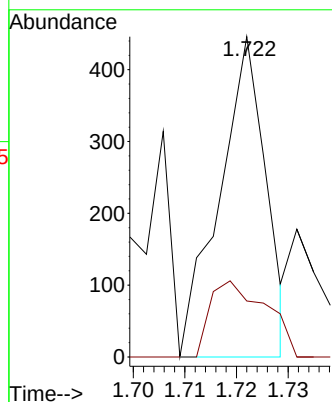
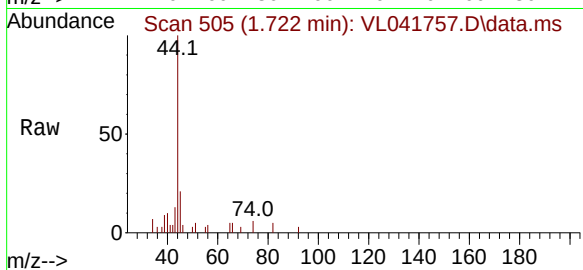
VSTDIC0.03

Tgt Ion: 45 Resp: 279

Ion Ratio Lower Upper

45 100

46 0.0 16.4 65.8#



#14

Bromoethene

Concen: 0.021 ppbv

RT: 1.787 min Scan# 525

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

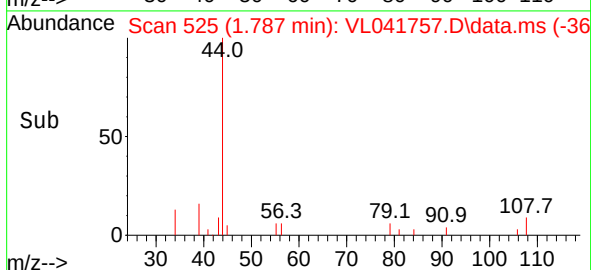
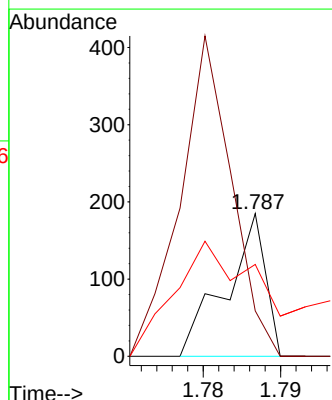
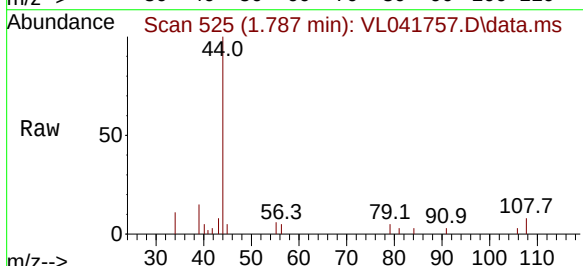
Tgt Ion: 108 Resp: 66

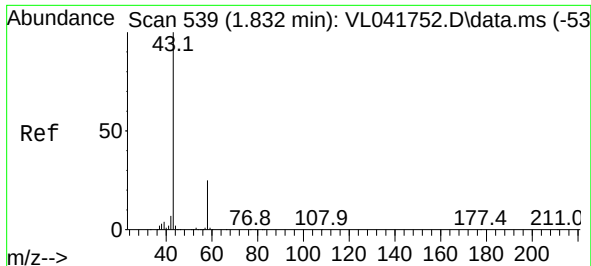
Ion Ratio Lower Upper

108 100

106 290.9 84.1 126.1#

79 374.2 17.4 26.0#





#15

Acetone

Concen: 0.169 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

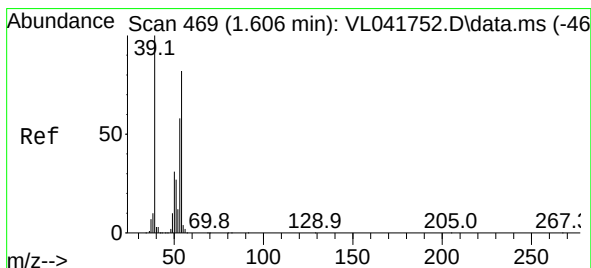
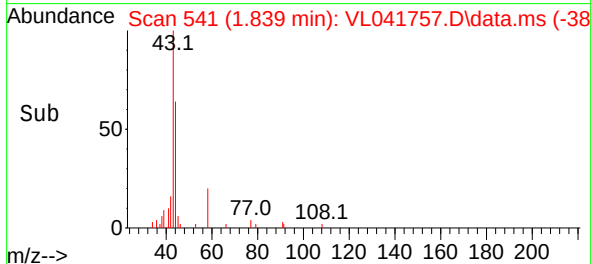
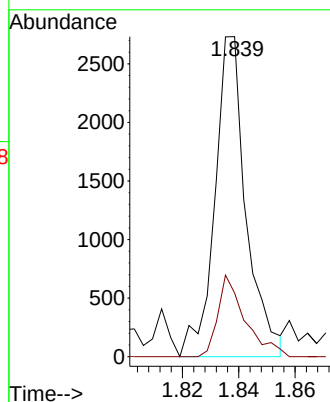
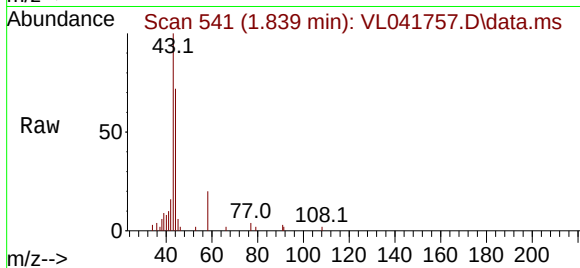
VSTDICC0.03

Tgt Ion: 43 Resp: 2113

Ion Ratio Lower Upper

43 100

58 22.1 19.7 29.5



#16

1,3-Butadiene

Concen: 0.051 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL041757.D

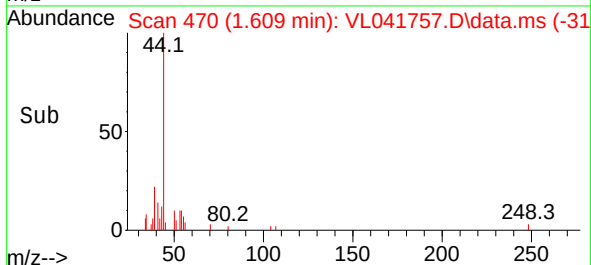
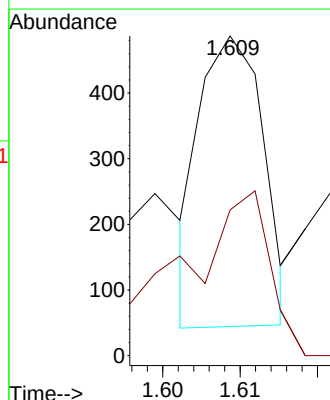
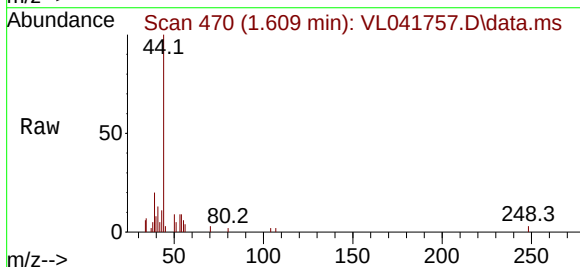
Acq: 16 Dec 2024 16:08

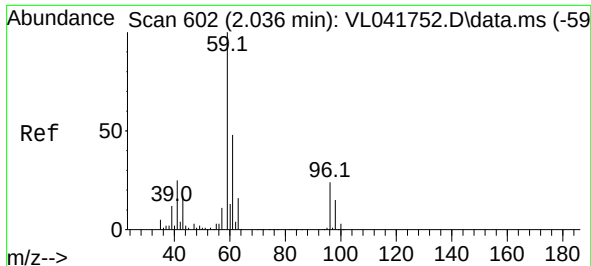
Tgt Ion: 39 Resp: 252

Ion Ratio Lower Upper

39 100

54 127.0 58.4 87.6#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.046 min Scan# 602

Delta R.T. 0.009 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

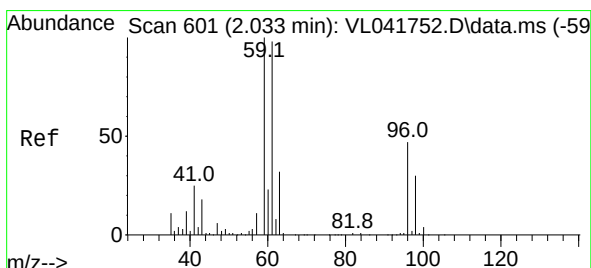
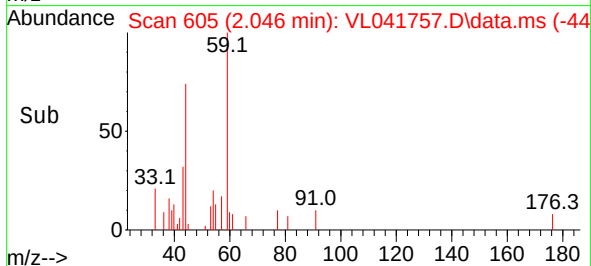
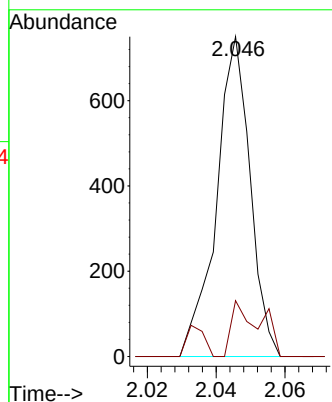
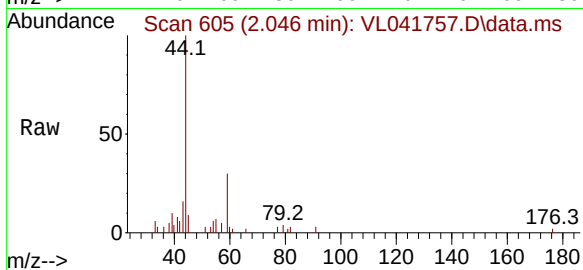
VSTDIC0.03

Tgt Ion: 59 Resp: 509

Ion Ratio Lower Upper

59 100

57 19.8 8.6 13.0#



#18

1,1-Dichloroethene

Concen: 0.027 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

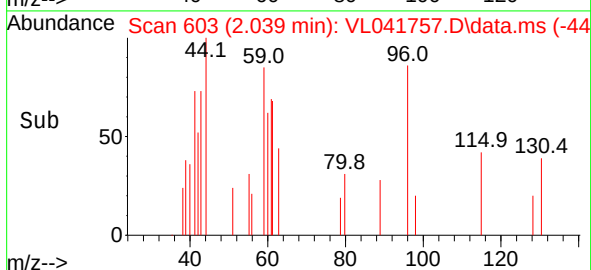
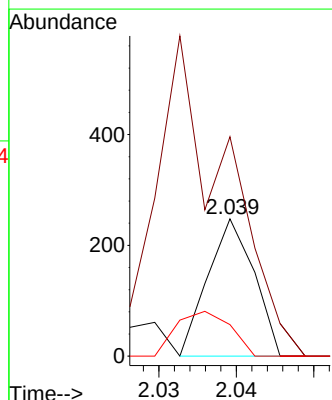
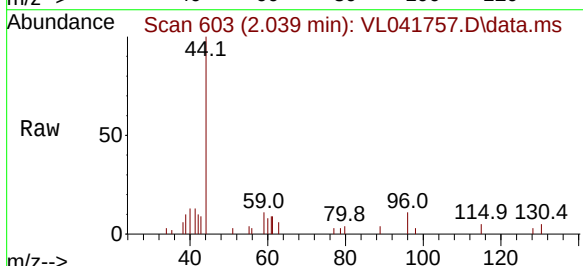
Tgt Ion: 96 Resp: 103

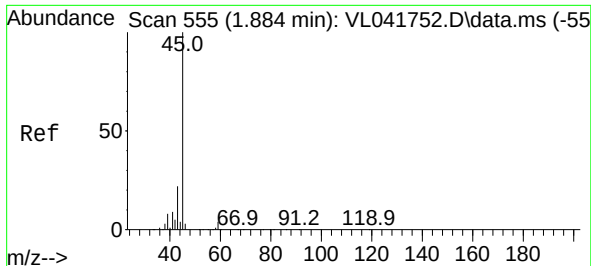
Ion Ratio Lower Upper

96 100

61 135.9 167.7 251.5#

98 23.0 51.1 76.7#





#19

Isopropyl Alcohol

Concen: 0.390 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

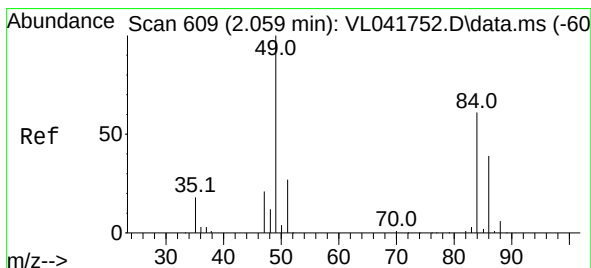
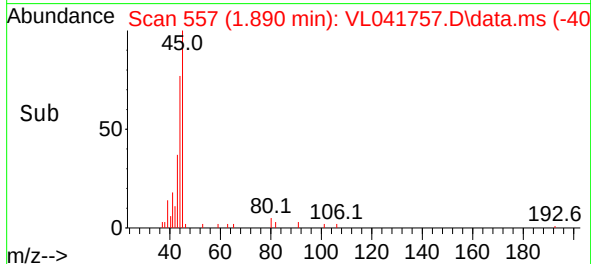
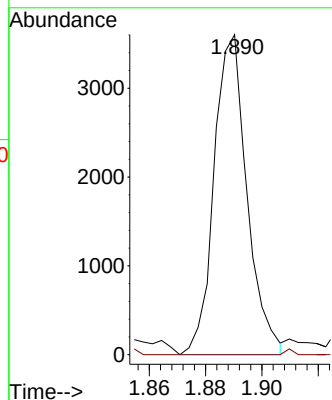
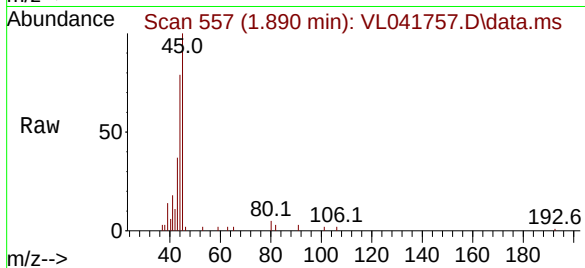
VSTDIC0.03

Tgt Ion: 45 Resp: 2921

Ion Ratio Lower Upper

45 100

58 0.0 33.3 49.9#



#20

Methylene Chloride

Concen: 0.172 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion: 84 Resp: 613

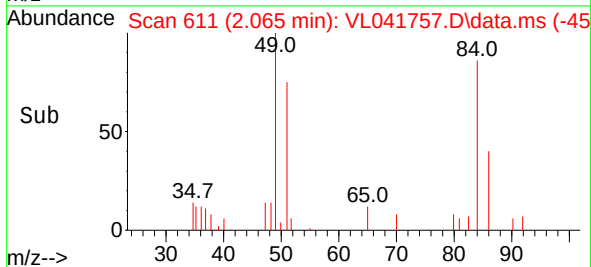
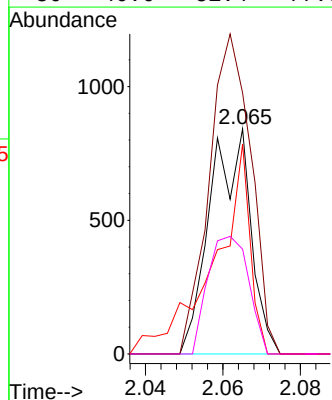
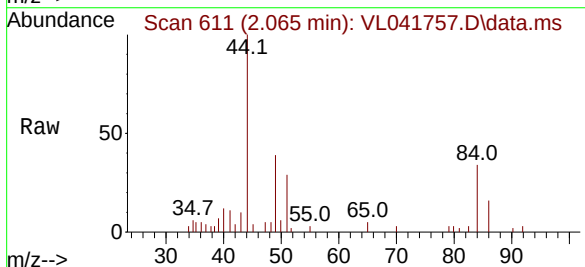
Ion Ratio Lower Upper

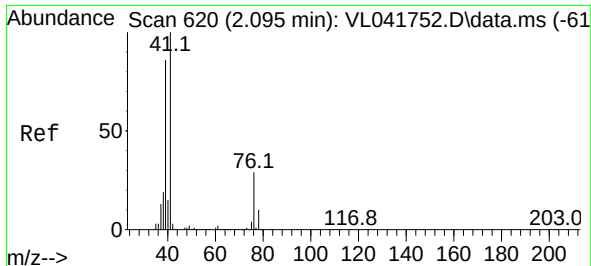
84 100

49 115.9 132.6 198.8#

51 93.2 37.6 56.4#

86 46.6 51.4 77.0#

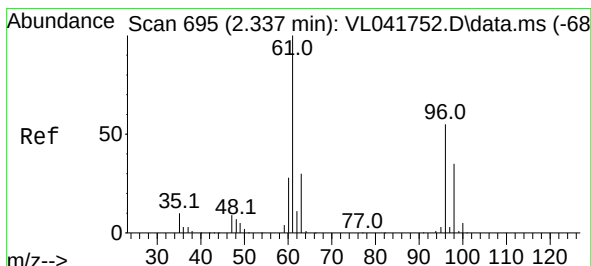
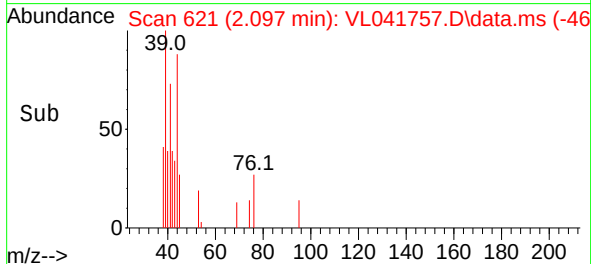
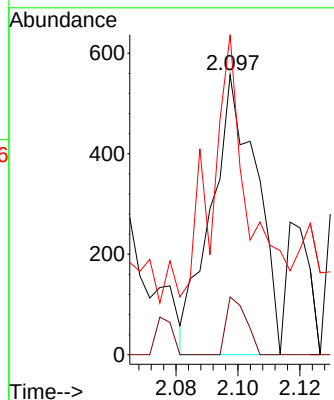
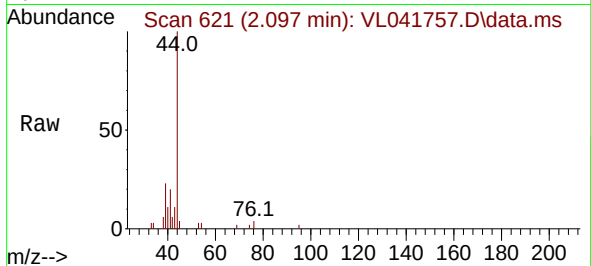




#21
 Allyl Chloride
 Concen: 0.084 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

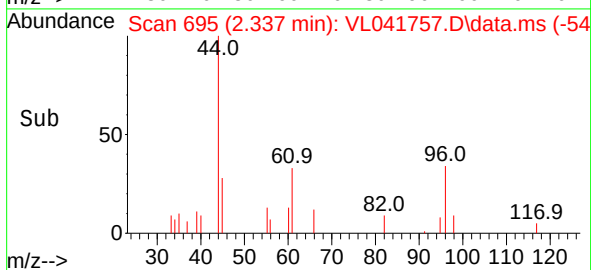
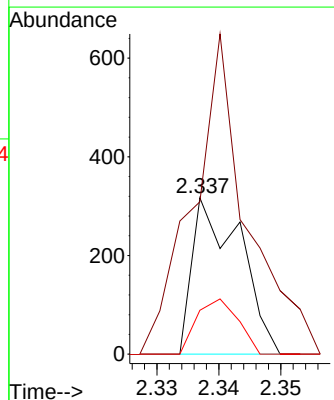
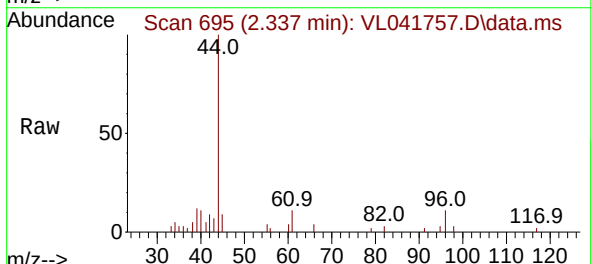
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

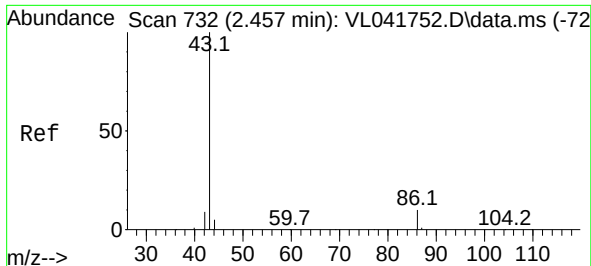
Tgt Ion: 41 Resp: 566
 Ion Ratio Lower Upper
 41 100
 76 9.2 22.3 33.5#
 39 125.1 69.2 103.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.038 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

Tgt Ion: 96 Resp: 170
 Ion Ratio Lower Upper
 96 100
 61 56.8 146.3 219.5#
 98 28.1 50.8 76.2#





#23

Vinyl Acetate

Concen: 0.037 ppbv

RT: 2.460 min Scan# 718

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 202

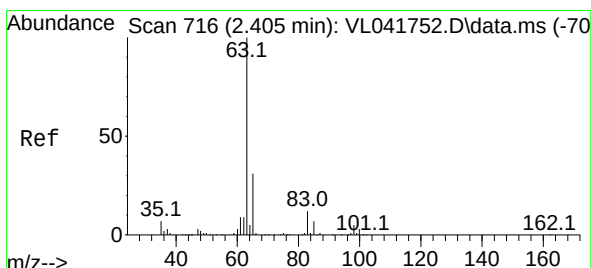
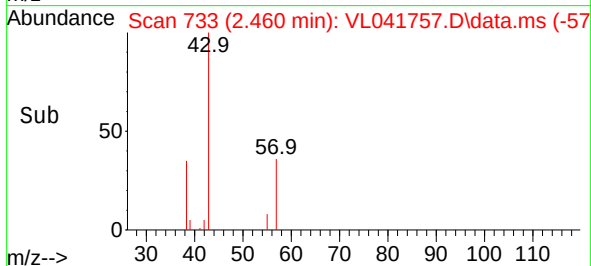
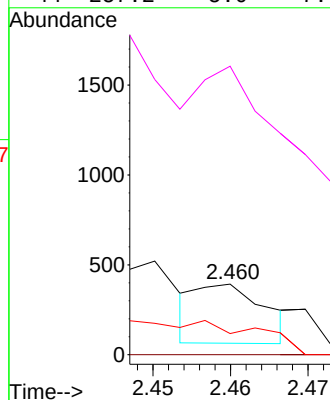
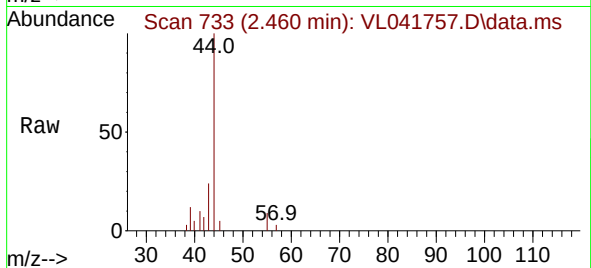
Ion Ratio Lower Upper

43 100

86 0.0 6.6 10.0#

42 0.0 8.2 12.2#

44 257.2 5.0 7.4#



#24

1,1-Dichloroethane

Concen: 0.042 ppbv

RT: 2.411 min Scan# 718

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

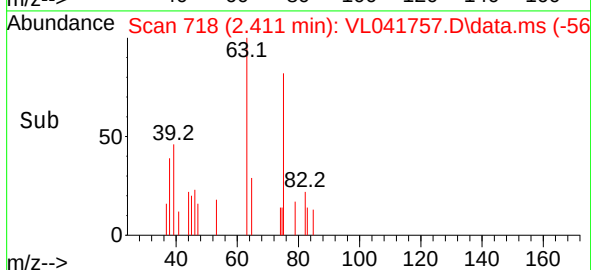
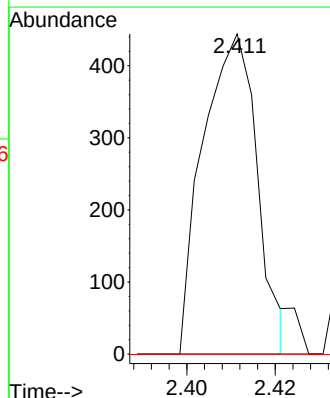
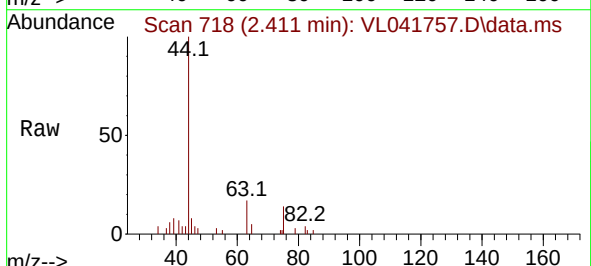
Tgt Ion: 63 Resp: 378

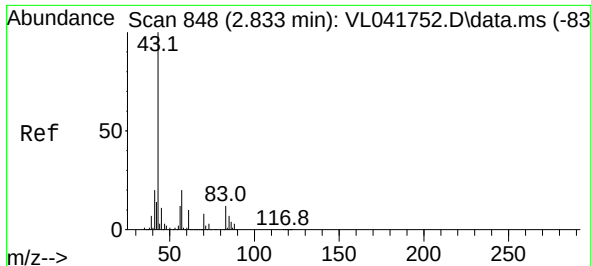
Ion Ratio Lower Upper

63 100

98 0.0 2.3 6.8#

100 0.0 1.4 4.2#





#25

Ethyl Acetate

Concen: 0.029 ppbv

RT: 2.839 min Scan# 848

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 677

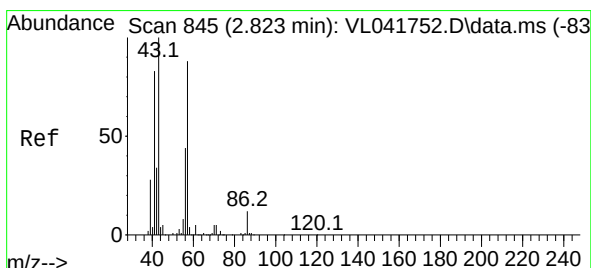
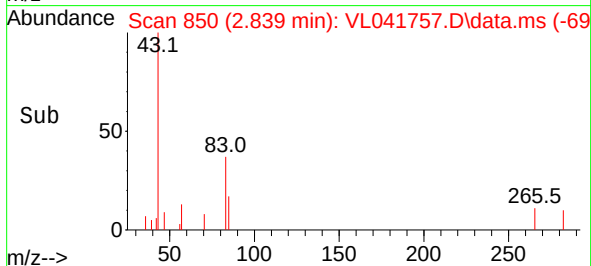
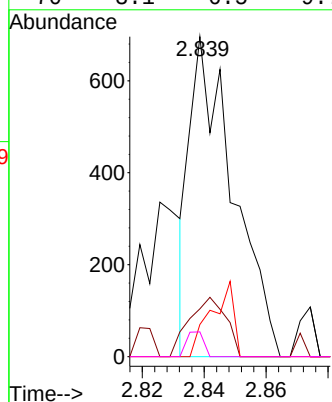
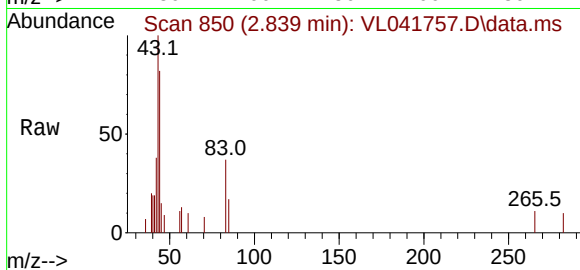
Ion Ratio Lower Upper

43 100

45 19.2 8.1 12.1#

61 12.3 7.0 10.6#

70 3.1 6.5 9.7#



#26

Hexane

Concen: 0.016 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion: 57 Resp: 141

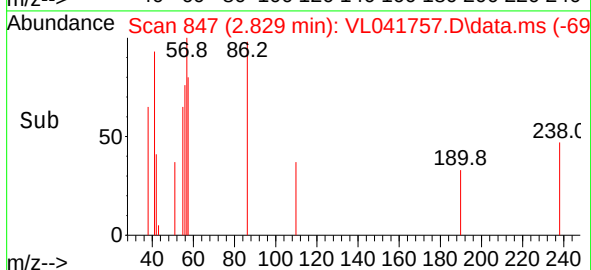
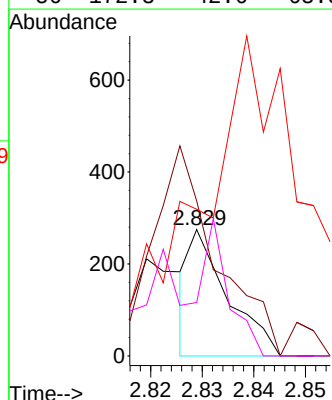
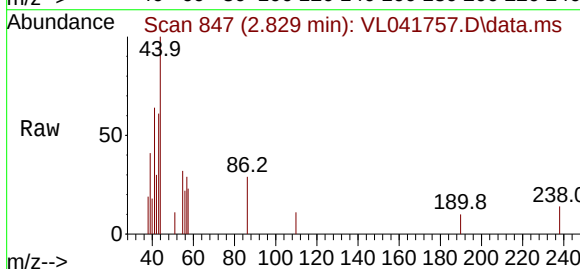
Ion Ratio Lower Upper

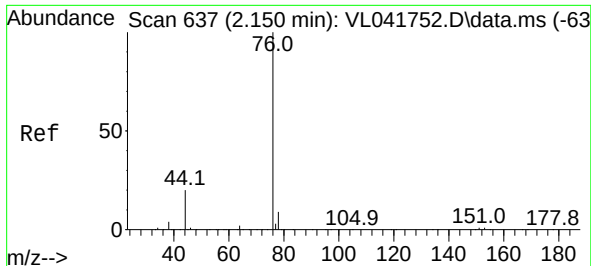
57 100

41 306.4 79.6 119.4#

43 771.6 211.0 316.6#

56 172.3 42.6 63.8#





#27

Carbon Disulfide

Concen: 0.026 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

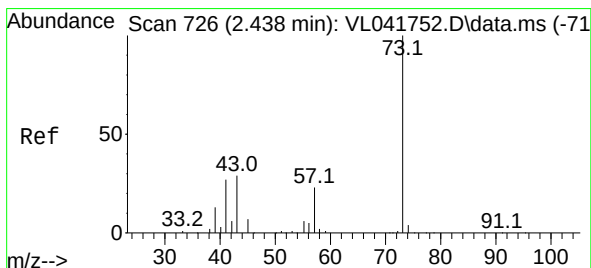
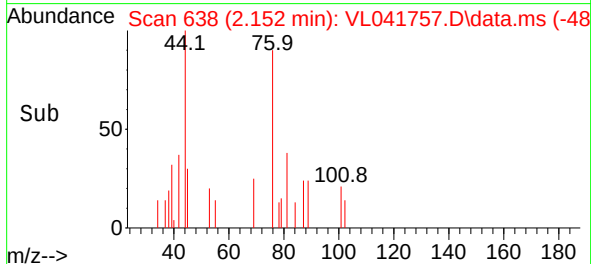
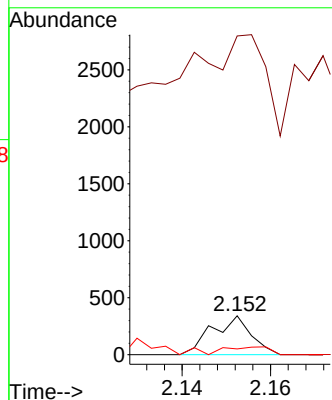
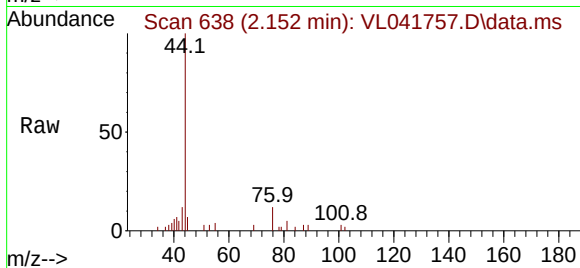
MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 76 Resp: 210

Ion	Ratio	Lower	Upper
76	100		
44	1391.9	17.6	26.4#
78	54.3	10.2	15.4#



#28

Methyl tert-Butyl Ether

Concen: 0.016 ppbv

RT: 2.450 min Scan# 730

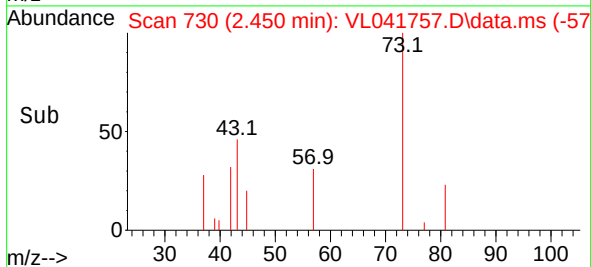
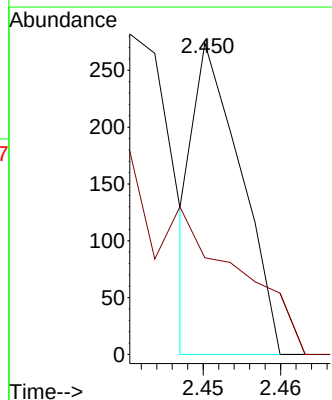
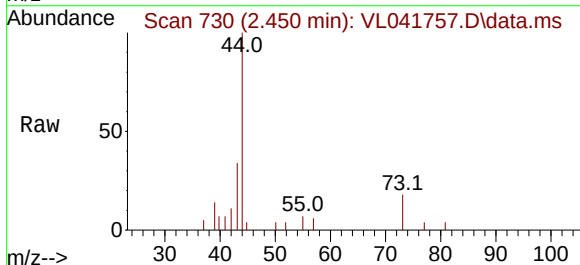
Delta R.T. 0.012 min

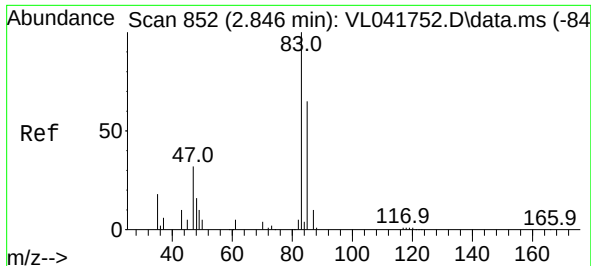
Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion: 73 Resp: 114

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.6	26.4





#29

Chloroform

Concen: 0.033 ppbv

RT: 2.852 min Scan# 852

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

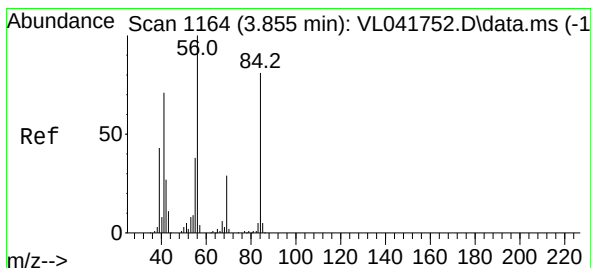
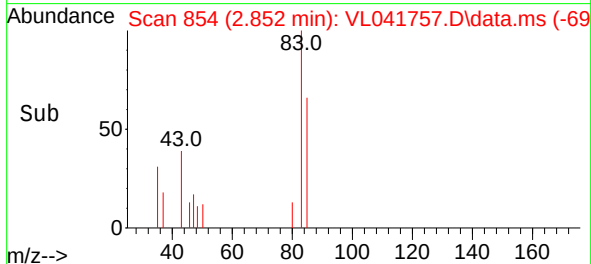
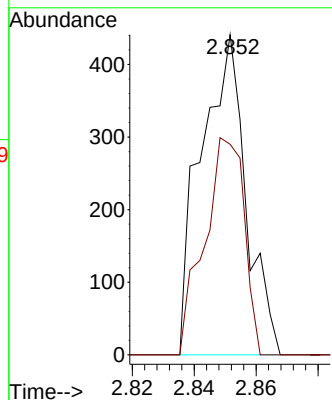
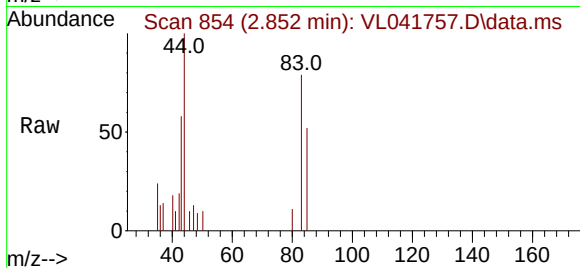
VSTDICC0.03

Tgt Ion: 83 Resp: 444

Ion Ratio Lower Upper

83 100

85 65.8 51.8 77.6



#30

Cyclohexane

Concen: 0.021 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

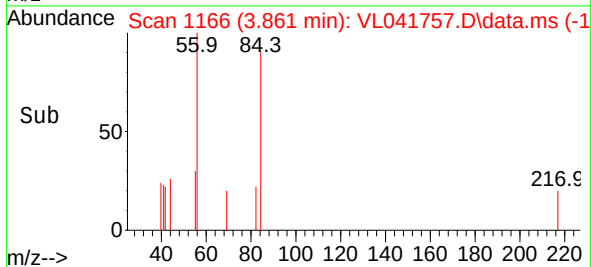
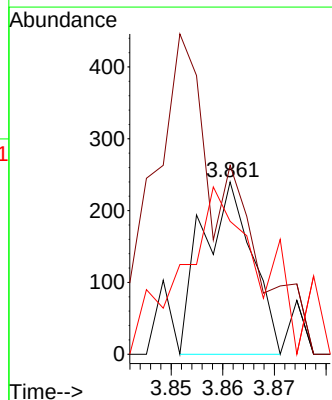
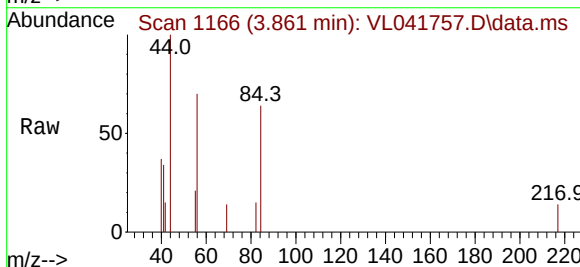
Tgt Ion: 84 Resp: 161

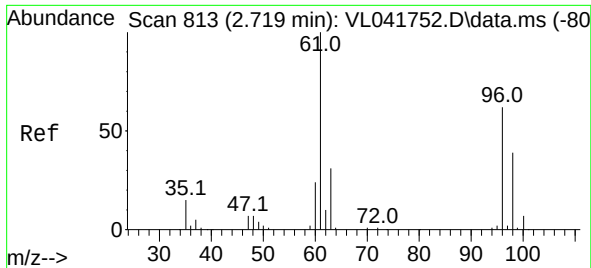
Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 170.8 74.0 111.0#

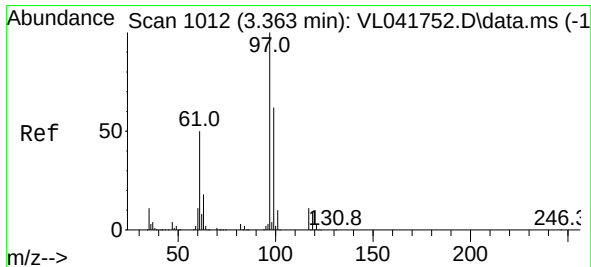
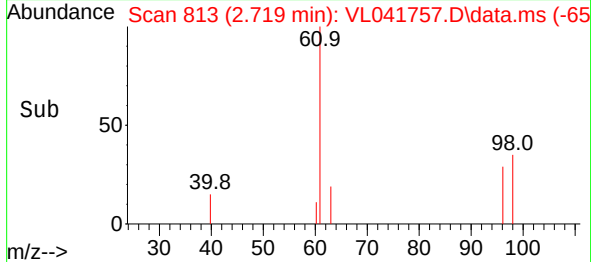
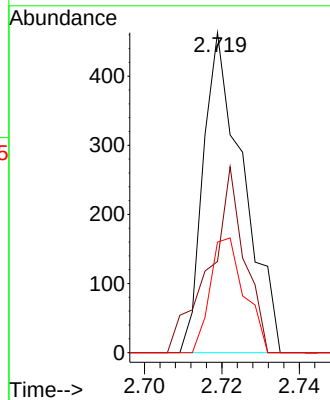
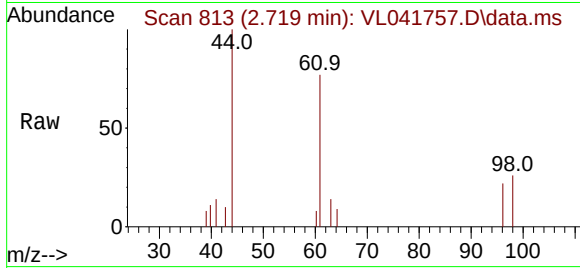




#31
 cis-1,2-Dichloroethene
 Concen: 0.036 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

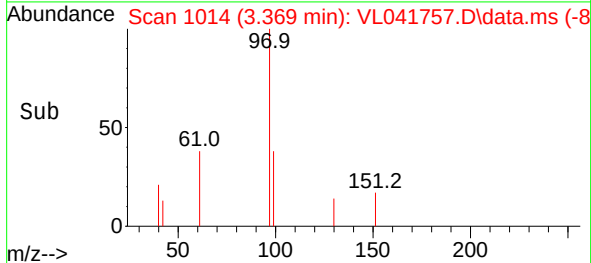
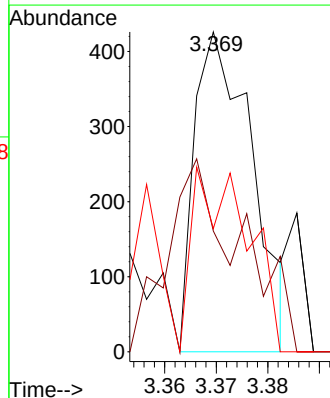
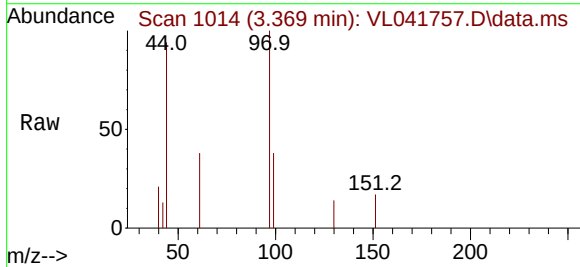
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

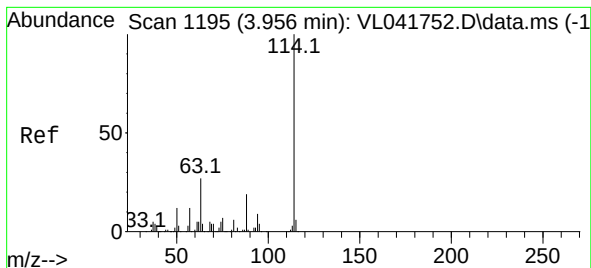
Tgt Ion: 61 Resp: 330
 Ion Ratio Lower Upper
 61 100
 96 28.5 49.7 74.5#
 98 34.6 30.8 46.2



#32
 1,1,1-Trichloroethane
 Concen: 0.025 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.006 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

Tgt Ion: 97 Resp: 332
 Ion Ratio Lower Upper
 97 100
 99 76.5 51.0 76.4#
 61 79.8 42.2 63.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.958 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

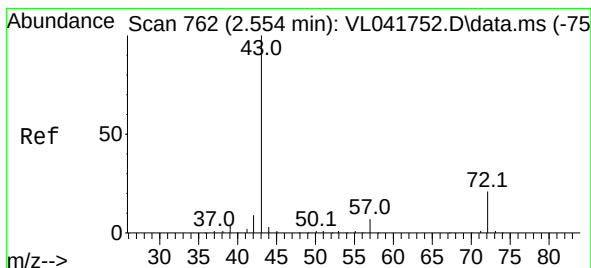
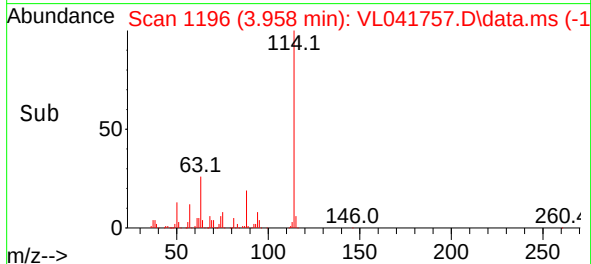
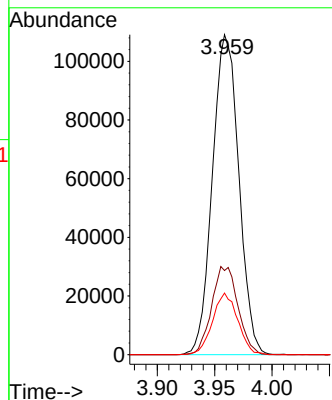
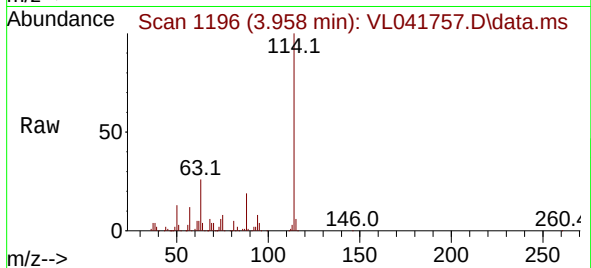
Tgt Ion:114 Resp: 174825

Ion Ratio Lower Upper

114 100

63 27.5 21.8 32.8

88 18.4 14.8 22.2



#34

2-Butanone

Concen: 0.049 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL041757.D

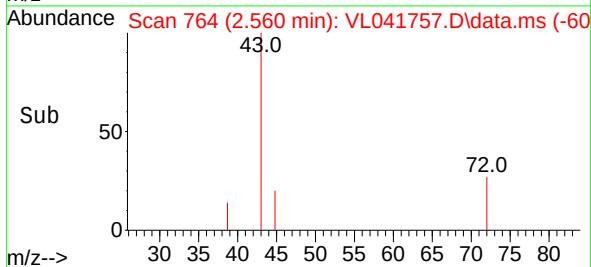
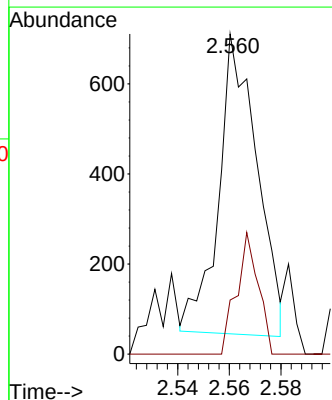
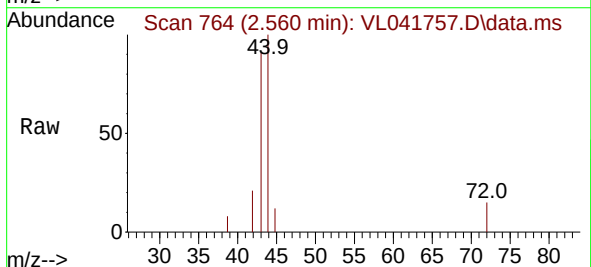
Acq: 16 Dec 2024 16:08

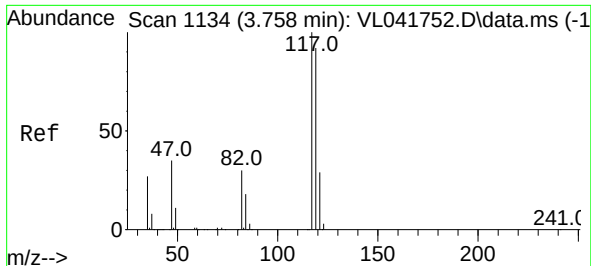
Tgt Ion: 43 Resp: 686

Ion Ratio Lower Upper

43 100

72 23.0 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.017 ppbv

RT: 3.768 min Scan# 1134

Delta R.T. 0.009 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

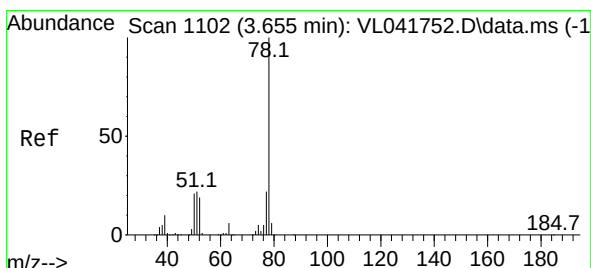
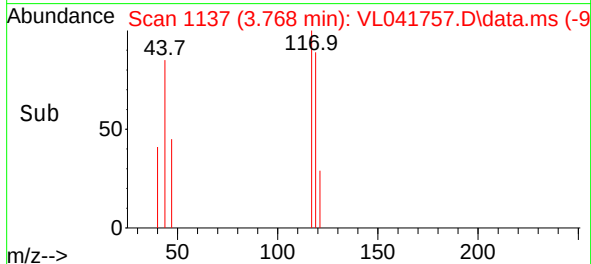
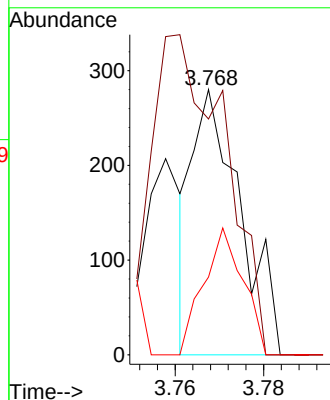
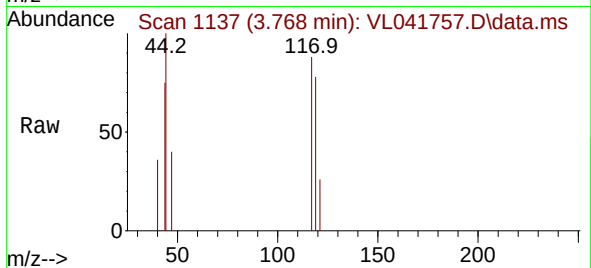
Tgt Ion:117 Resp: 209

Ion Ratio Lower Upper

117 100

119 88.9 73.7 110.5

121 29.3 23.0 34.4



#36

Benzene

Concen: 0.012 ppbv

RT: 3.657 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

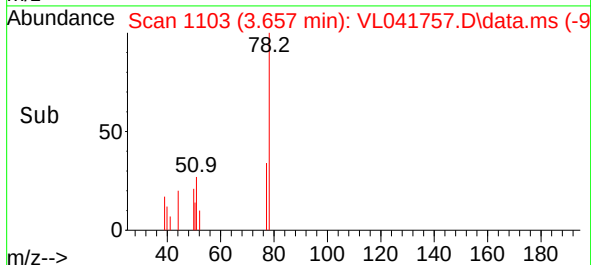
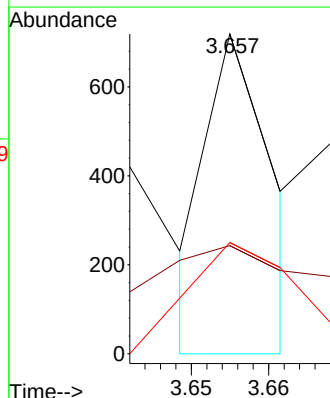
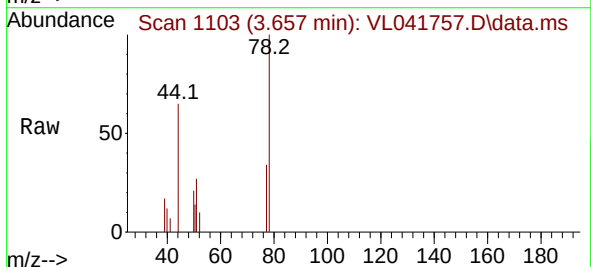
Tgt Ion: 78 Resp: 211

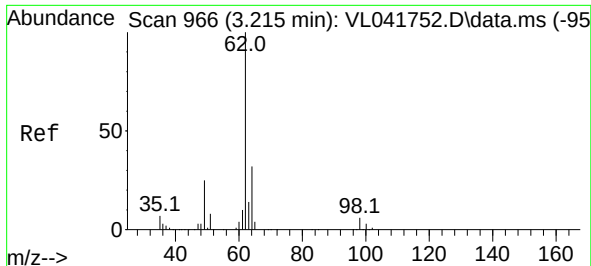
Ion Ratio Lower Upper

78 100

77 11.5 17.8 26.6#

50 25.6 17.2 25.8





#37

1,2-Dichloroethane

Concen: 0.032 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

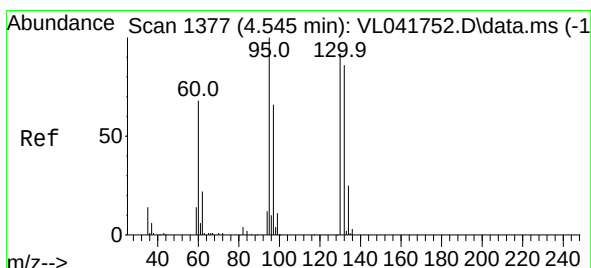
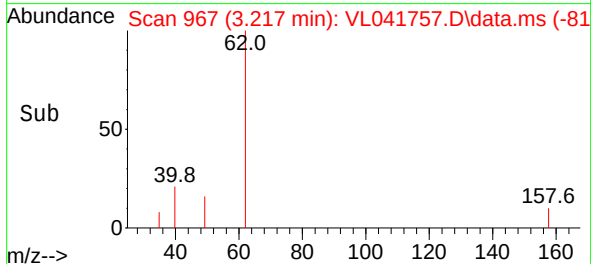
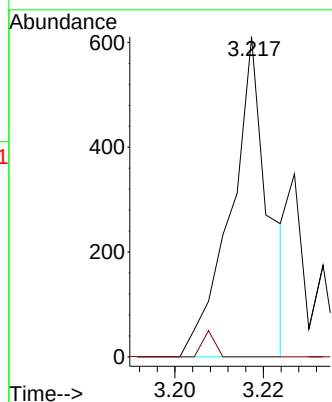
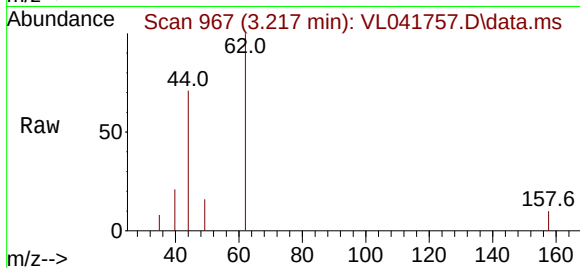
VSTDIC0.03

Tgt Ion: 62 Resp: 357

Ion Ratio Lower Upper

62 100

98 0.0 4.7 7.1#



#38

Trichloroethene

Concen: 0.027 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion:130 Resp: 204

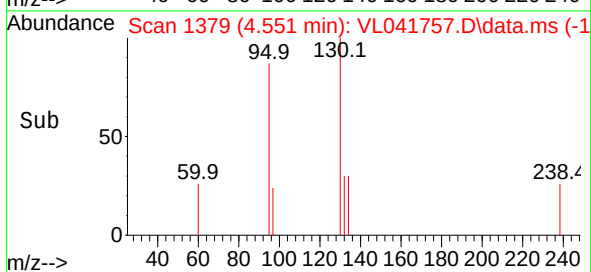
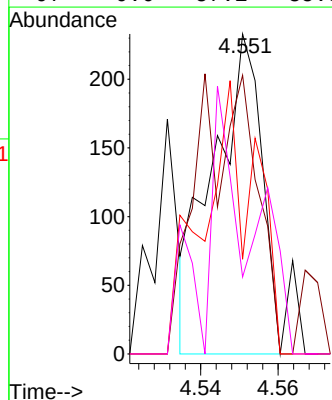
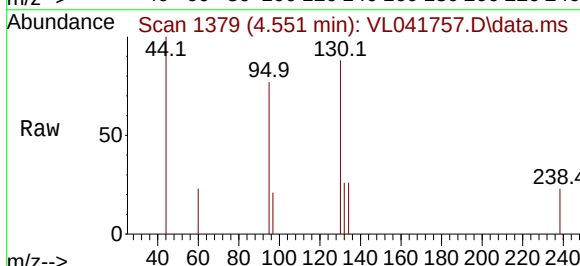
Ion Ratio Lower Upper

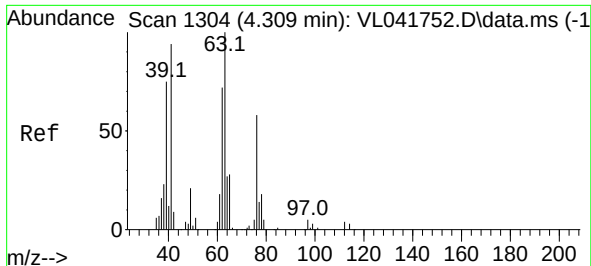
130 100

95 87.1 87.0 130.6

132 29.6 75.0 112.6#

97 0.0 57.2 85.8#





#39

1,2-Dichloropropane

Concen: 7.356 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.353 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

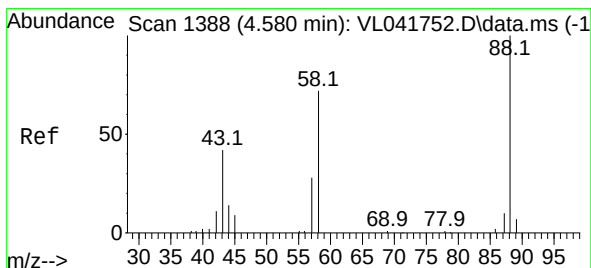
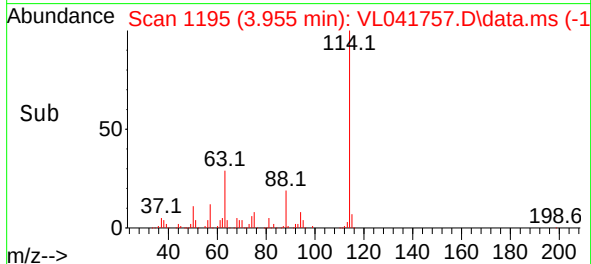
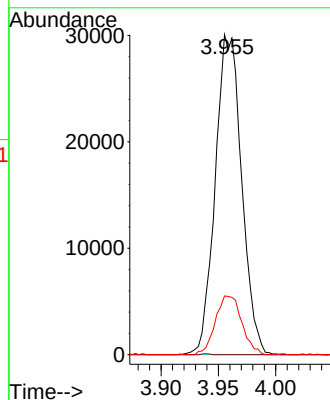
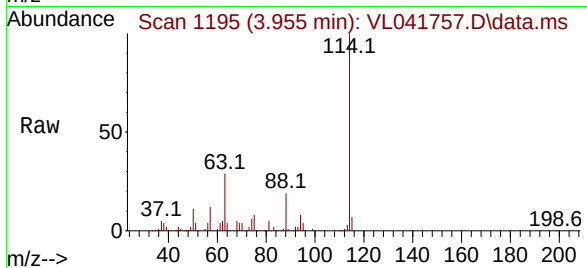
Tgt Ion: 63 Resp: 48113

Ion Ratio Lower Upper

63 100

41 0.0 75.3 112.9#

62 18.3 57.3 85.9#



#40

1,4-Dioxane

Concen: 0.008 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. 0.055 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion: 88 Resp: 26

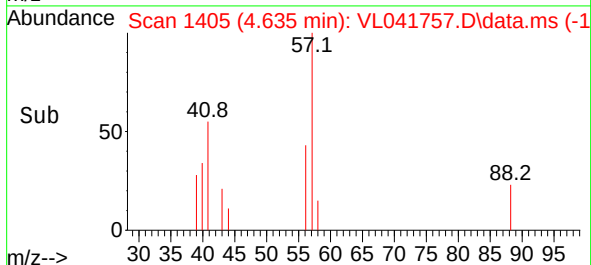
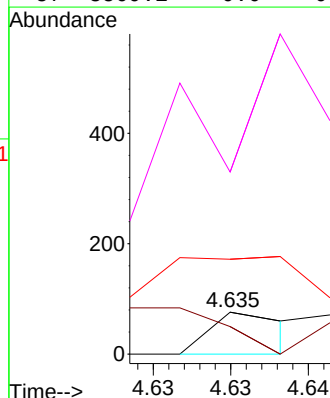
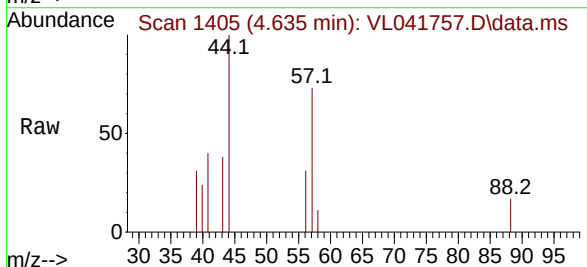
Ion Ratio Lower Upper

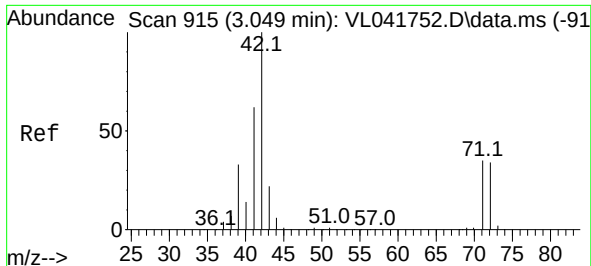
88 100

58 250.0 61.0 91.6#

43 1157.7 29.4 44.0#

57 3569.2 0.0 0.0#





#41

Tetrahydrofuran

Concen: 0.007 ppbv

RT: 3.049 min Scan# 915

Delta R.T. -0.000 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

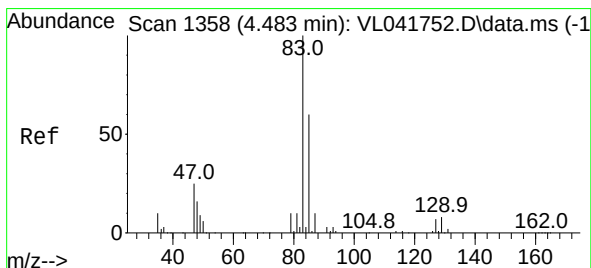
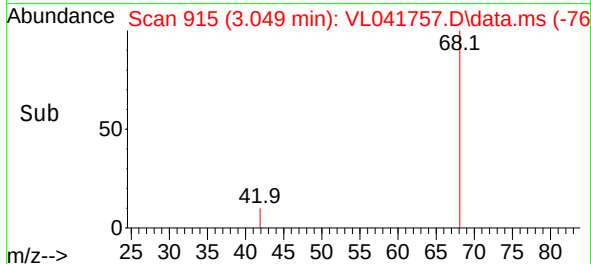
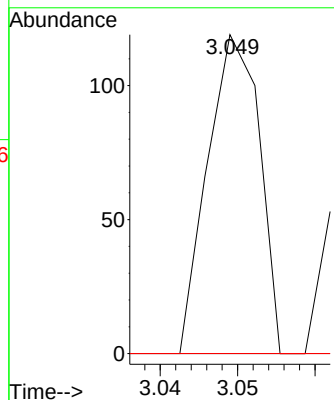
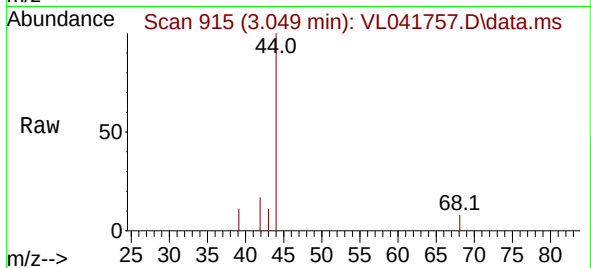
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	42	Resp:	55
Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.1	43.7#
71	0.0	28.4	42.6#



#42

Bromodichloromethane

Concen: 0.013 ppbv

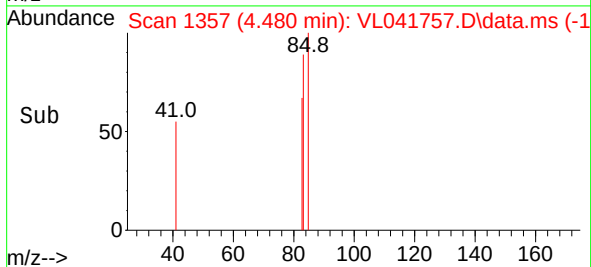
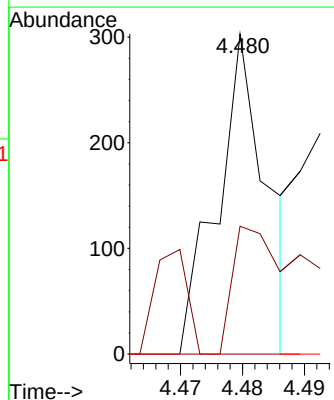
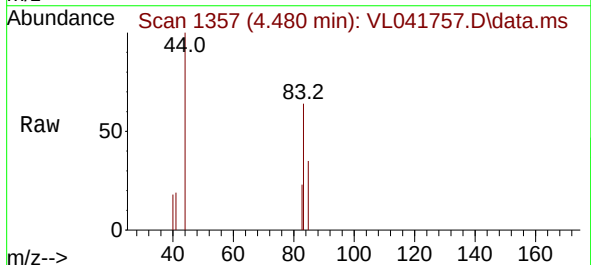
RT: 4.480 min Scan# 1357

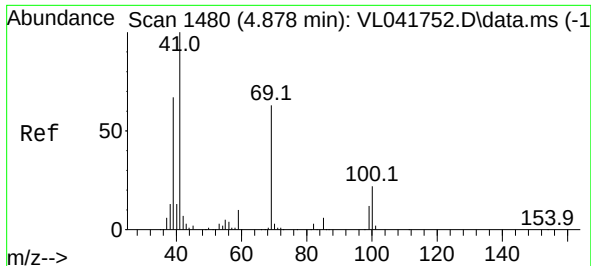
Delta R.T. -0.004 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion:	83	Resp:	168
Ion	Ratio	Lower	Upper
83	100		
85	14.2	48.0	72.0#
127	0.0	5.8	8.8#





#43

Methyl Methacrylate

Concen: 0.006 ppbv

RT: 4.907 min Scan# 1489

Delta R.T. 0.029 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

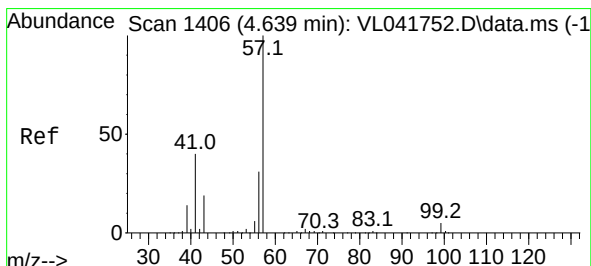
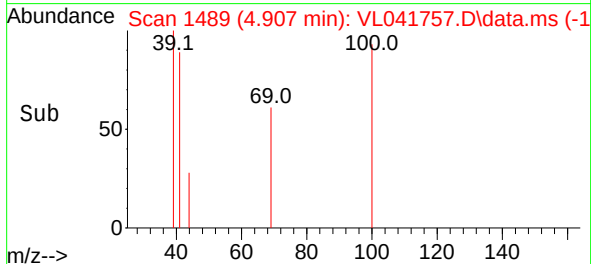
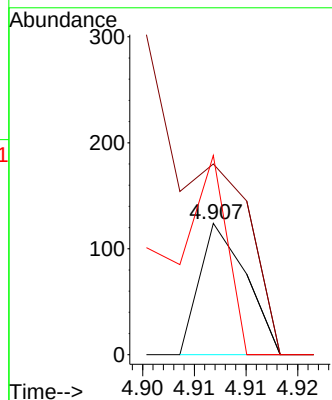
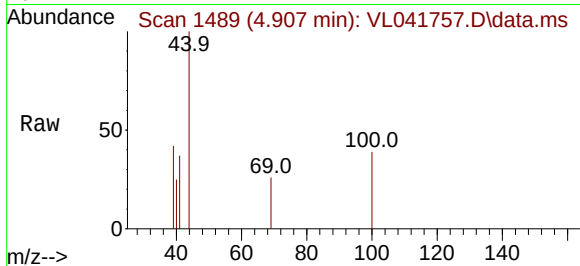
Tgt Ion: 69 Resp: 39

Ion Ratio Lower Upper

69 100

41 1259.0 130.3 195.5#

100 248.7 28.3 42.5#



#44

2,2,4-Trimethylpentane

Concen: 0.014 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.000 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

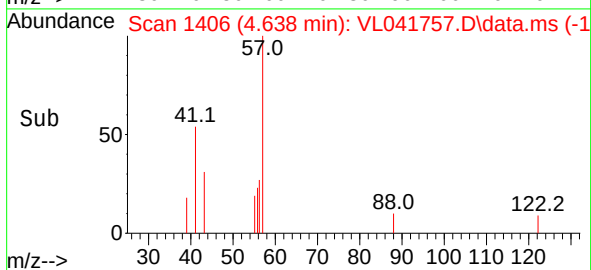
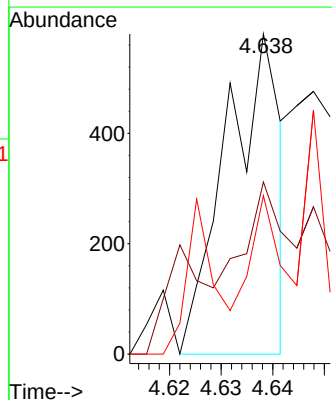
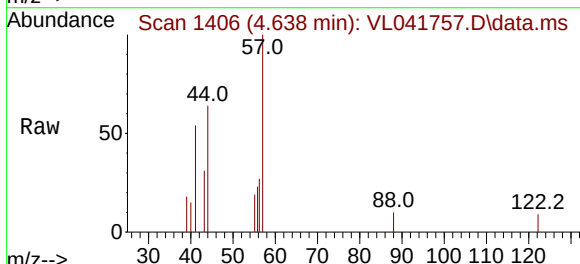
Tgt Ion: 57 Resp: 425

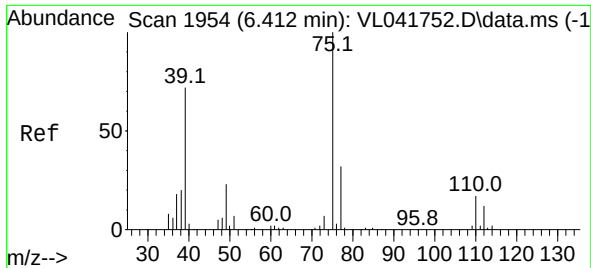
Ion Ratio Lower Upper

57 100

41 117.9 30.7 46.1#

56 0.0 25.4 38.0#





#45

t-1,3-Dichloropropene

Concen: 0.010 ppbv

RT: 6.418 min Scan# 1954

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

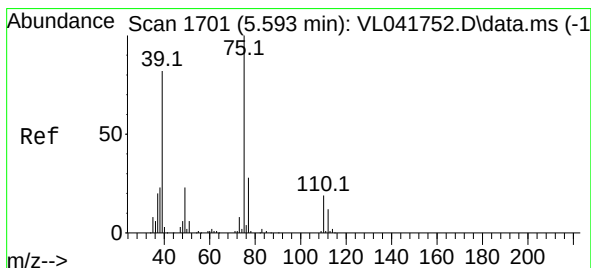
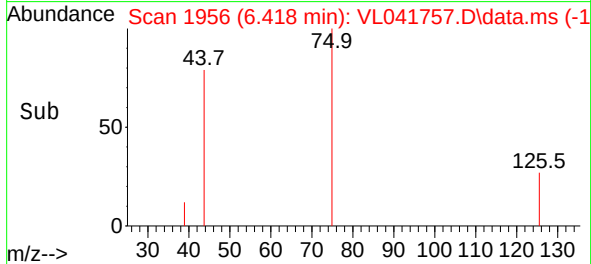
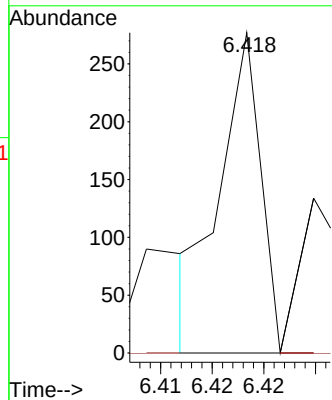
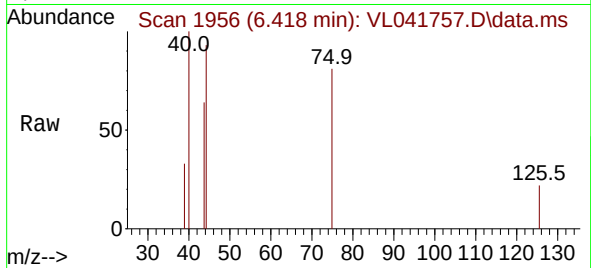
VSTDIC0.03

Tgt Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

77 0.0 25.9 38.9#



#46

cis-1,3-Dichloropropene

Concen: 0.007 ppbv

RT: 5.599 min Scan# 1703

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

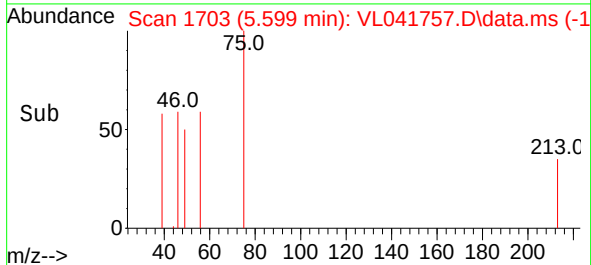
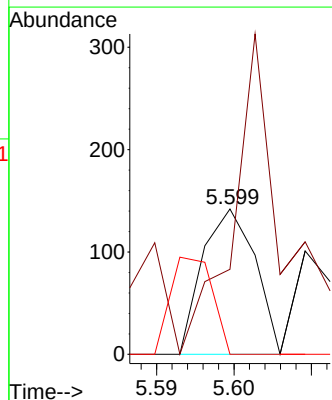
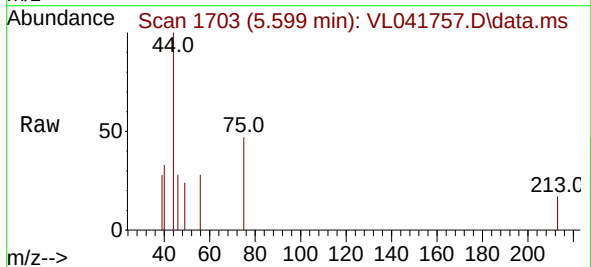
Tgt Ion: 75 Resp: 67

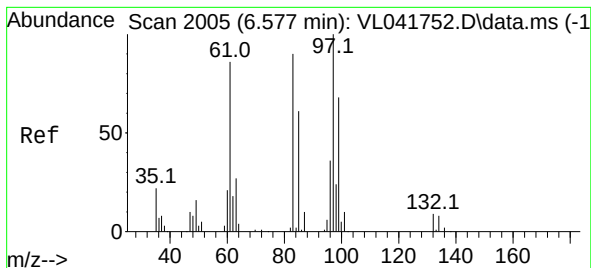
Ion Ratio Lower Upper

75 100

39 58.5 65.2 97.8#

77 0.0 22.0 33.0#





#47

1,1,2-Trichloroethane

Concen: 0.009 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

Tgt Ion: 97 Resp: 59

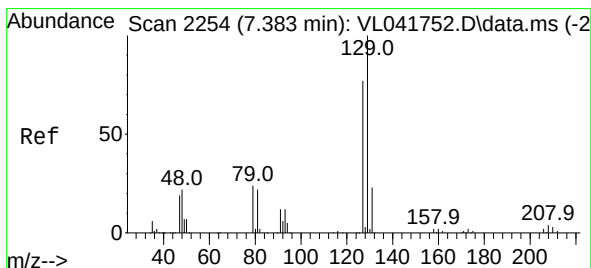
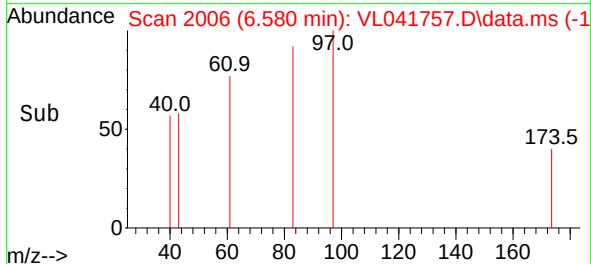
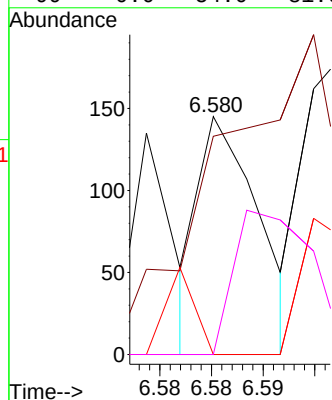
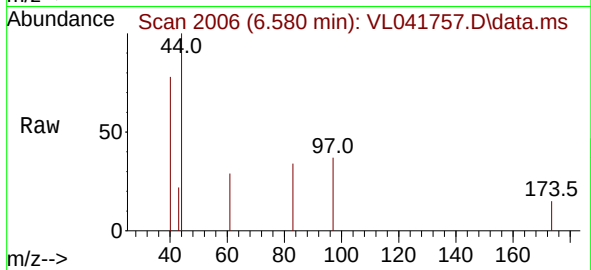
Ion Ratio Lower Upper

97 100

83 86.3 72.3 108.5

85 0.0 48.5 72.7#

99 0.0 54.0 81.0#



#48

Dibromochloromethane

Concen: 0.013 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. -0.000 min

Lab File: VL041757.D

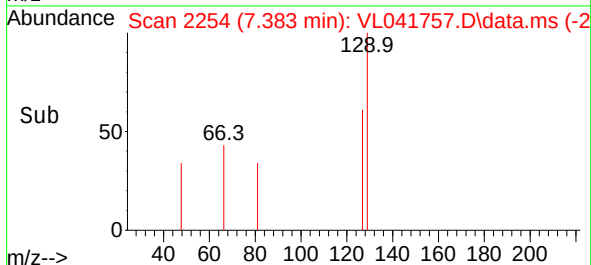
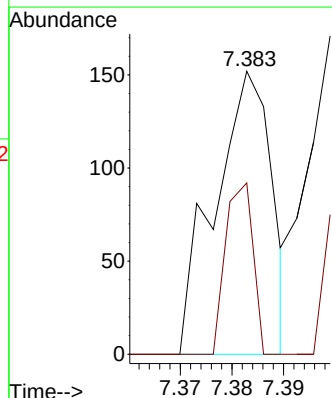
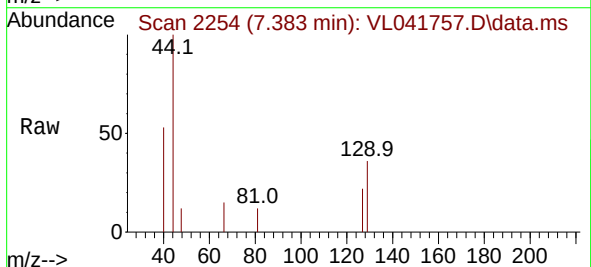
Acq: 16 Dec 2024 16:08

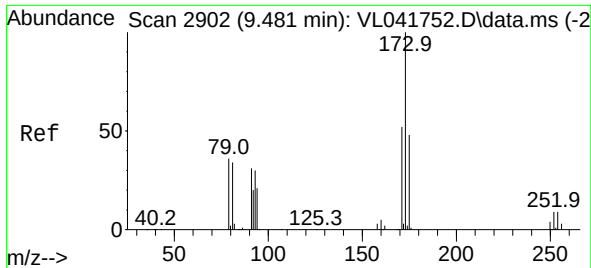
Tgt Ion:129 Resp: 117

Ion Ratio Lower Upper

129 100

127 64.1 38.8 116.3





#49

Bromoform

Concen: 0.015 ppbv

RT: 9.487 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

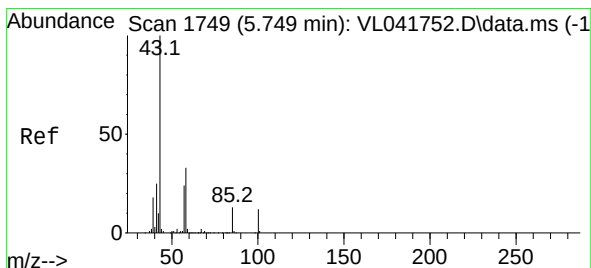
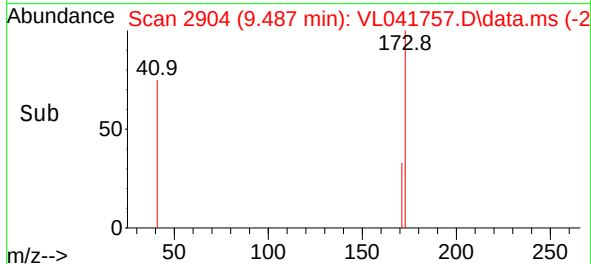
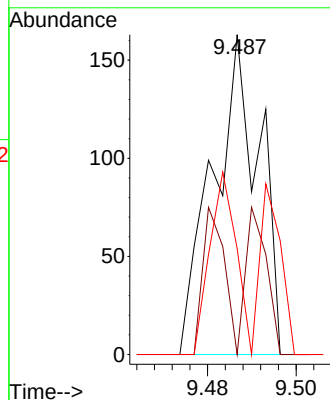
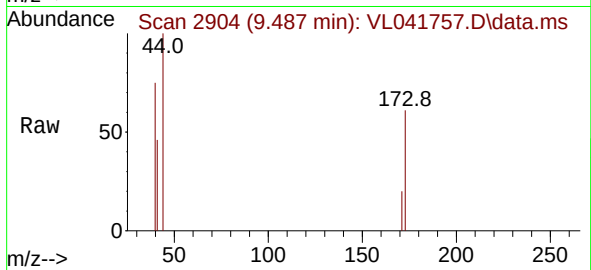
Tgt Ion:173 Resp: 118

Ion Ratio Lower Upper

173 100

175 42.4 38.2 57.2

171 56.8 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 0.018 ppbv

RT: 5.777 min Scan# 1758

Delta R.T. 0.029 min

Lab File: VL041757.D

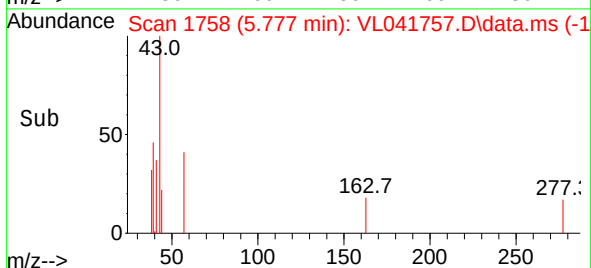
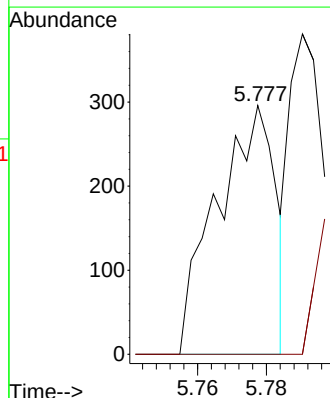
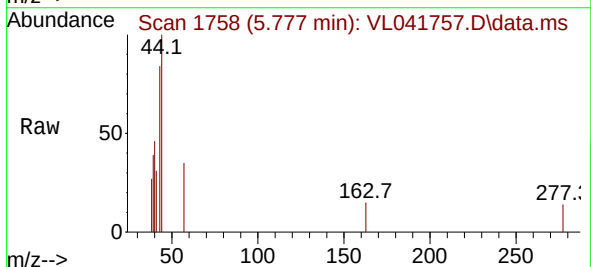
Acq: 16 Dec 2024 16:08

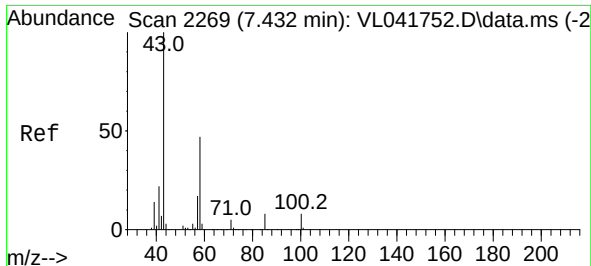
Tgt Ion: 43 Resp: 350

Ion Ratio Lower Upper

43 100

58 0.0 26.8 40.2#

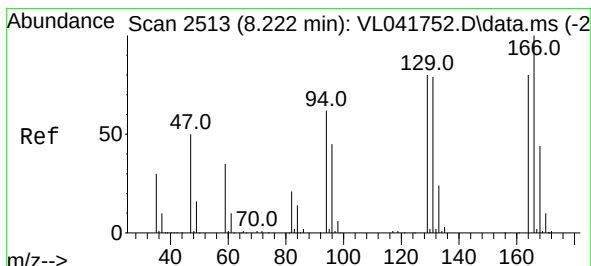
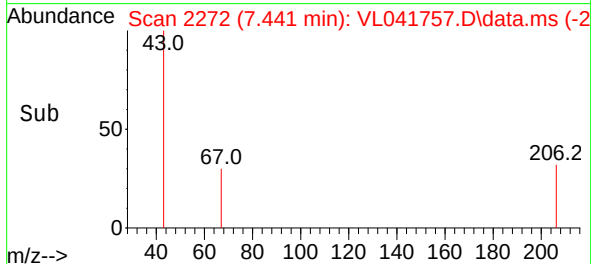
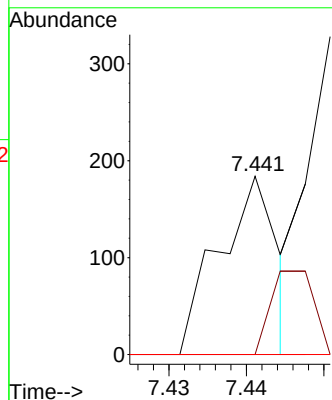
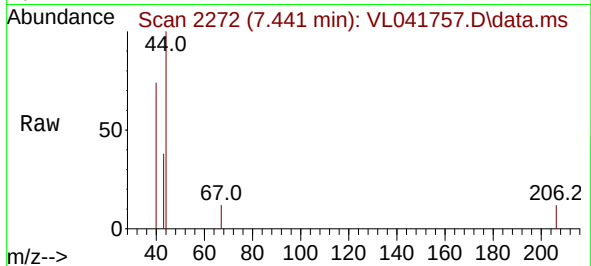




#51
2-Hexanone
Concen: 0.006 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

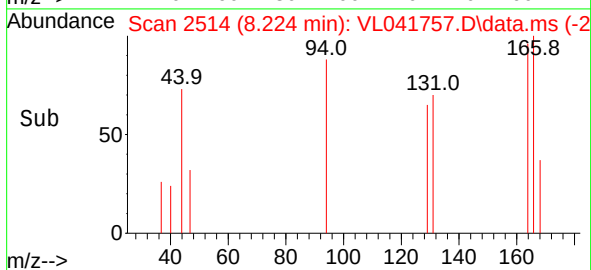
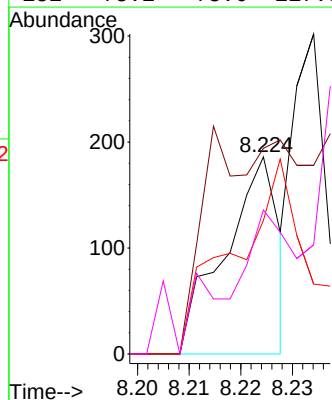
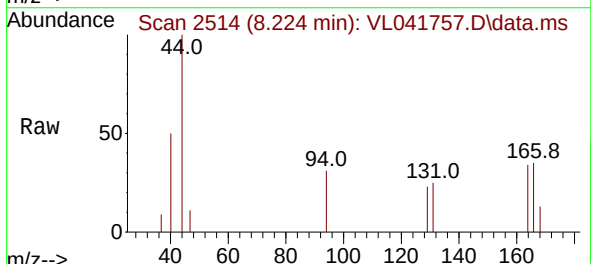
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

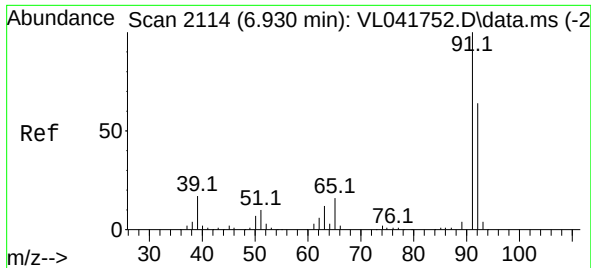
Tgt Ion: 43 Resp: 97
Ion Ratio Lower Upper
43 100
58 0.0 36.6 55.0#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.020 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion: 164 Resp: 135
Ion Ratio Lower Upper
164 100
166 104.3 99.8 149.6
129 67.7 79.6 119.4#
131 73.1 78.6 117.8#





#53

Toluene

Concen: 0.015 ppbv

RT: 6.933 min Scan# 2114

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

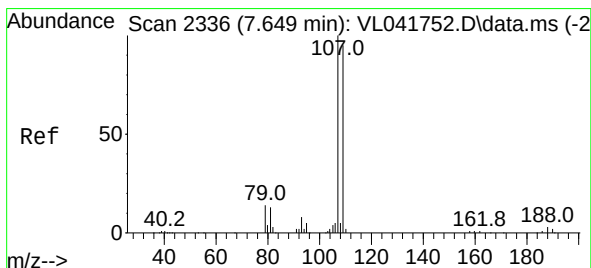
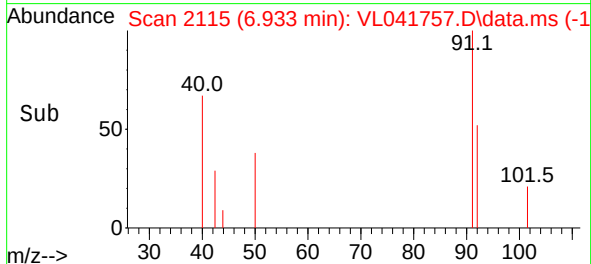
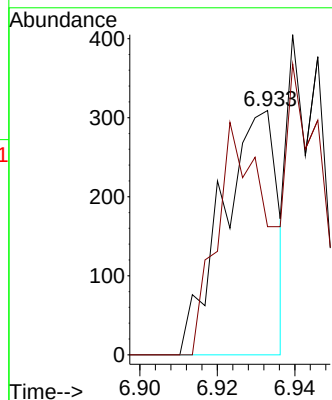
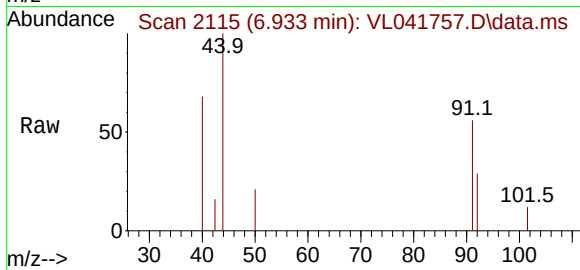
VSTDICC0.03

Tgt Ion: 91 Resp: 304

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#



#54

1,2-Dibromoethane

Concen: 0.023 ppbv

RT: 7.661 min Scan# 2340

Delta R.T. 0.012 min

Lab File: VL041757.D

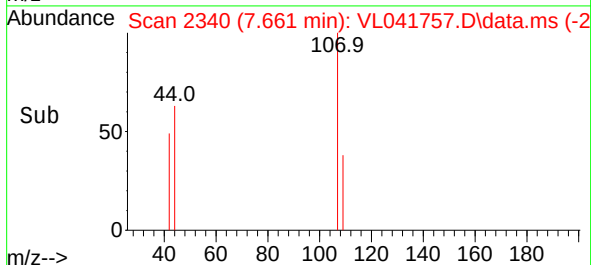
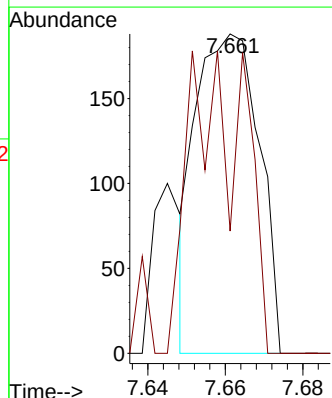
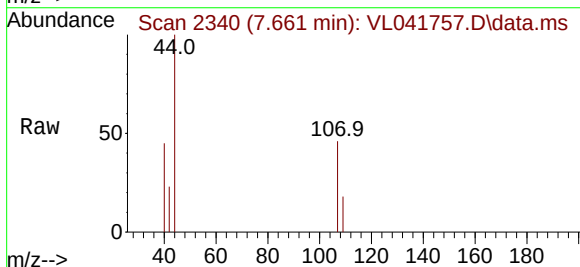
Acq: 16 Dec 2024 16:08

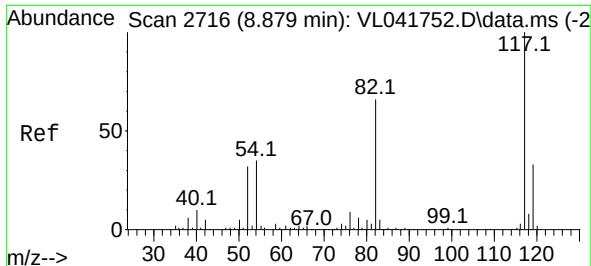
Tgt Ion: 107 Resp: 213

Ion Ratio Lower Upper

107 100

109 38.3 75.9 113.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

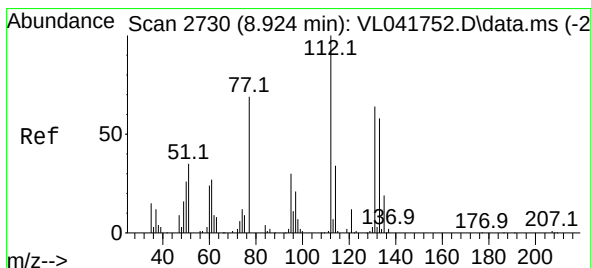
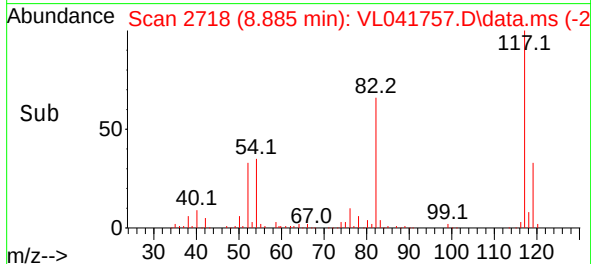
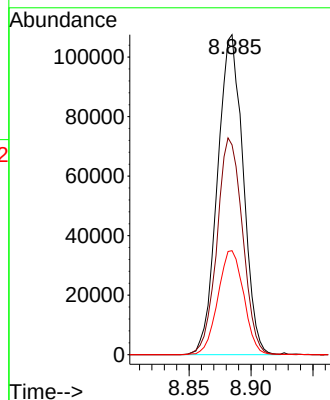
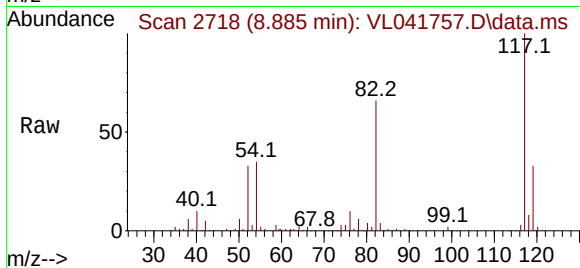
Tgt Ion:117 Resp: 154998

Ion Ratio Lower Upper

117 100

82 67.6 53.8 80.8

119 32.9 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 0.010 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

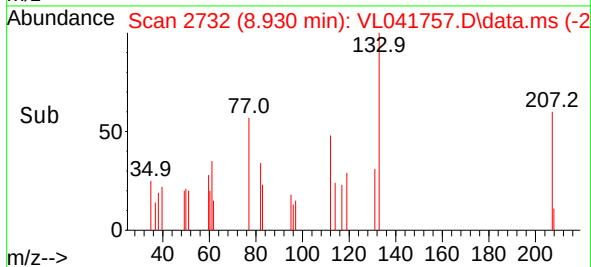
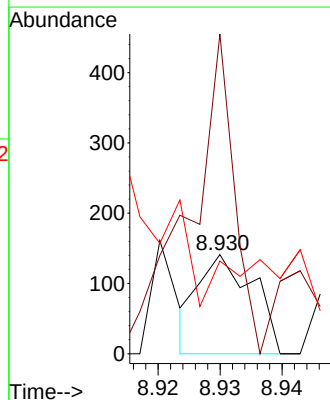
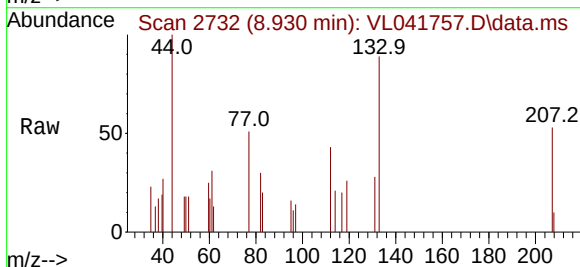
Tgt Ion:131 Resp: 86

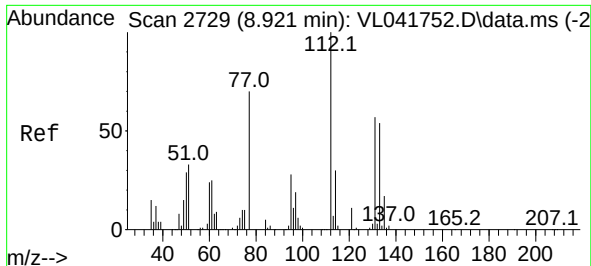
Ion Ratio Lower Upper

131 100

133 350.0 76.8 115.2#

119 0.0 49.0 73.6#





#57

Chlorobenzene

Concen: 0.007 ppbv

RT: 8.933 min Scan# 21

Delta R.T. 0.012 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

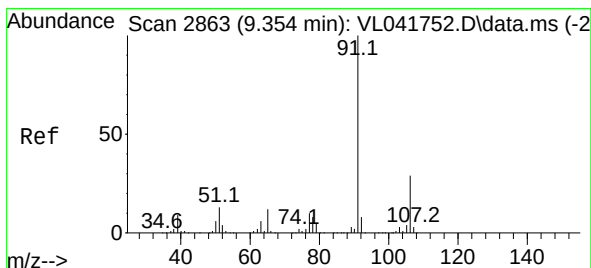
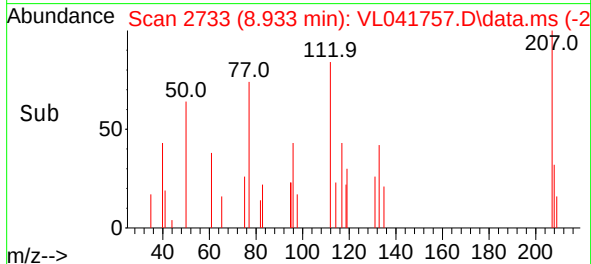
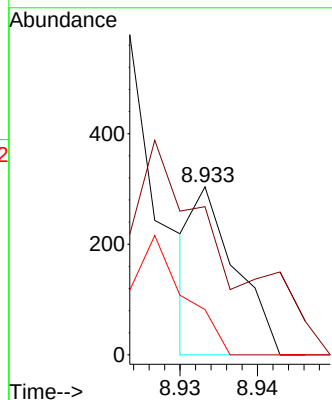
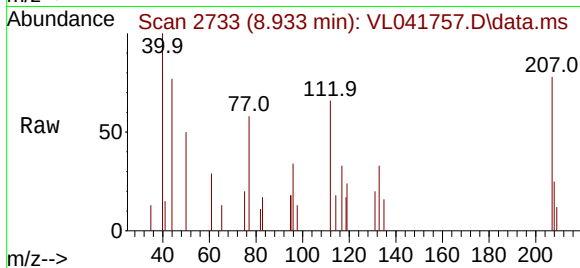
Tgt Ion:112 Resp: 114

Ion Ratio Lower Upper

112 100

77 38.8 57.4 86.0#

114 27.0 27.4 33.4#



#58

Ethyl Benzene

Concen: 0.018 ppbv

RT: 9.357 min Scan# 2864

Delta R.T. 0.003 min

Lab File: VL041757.D

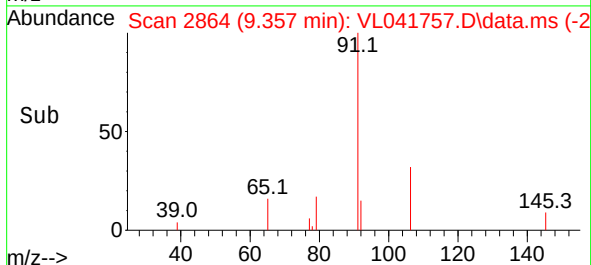
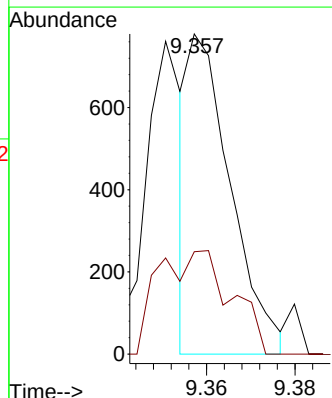
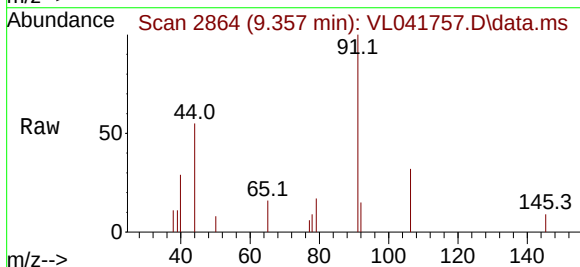
Acq: 16 Dec 2024 16:08

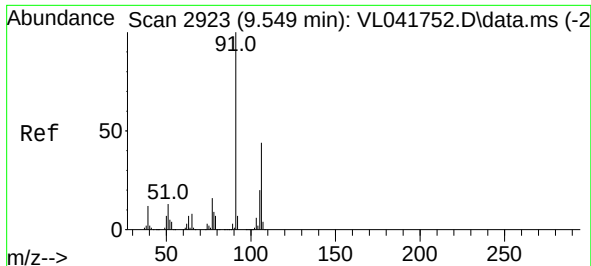
Tgt Ion: 91 Resp: 516

Ion Ratio Lower Upper

91 100

106 34.3 23.5 35.3

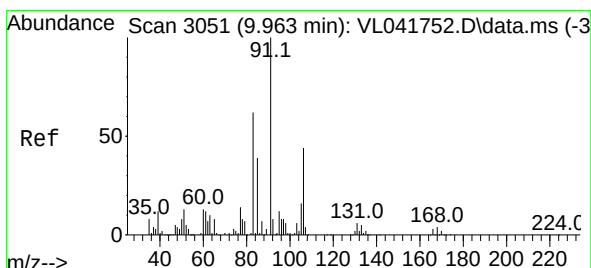
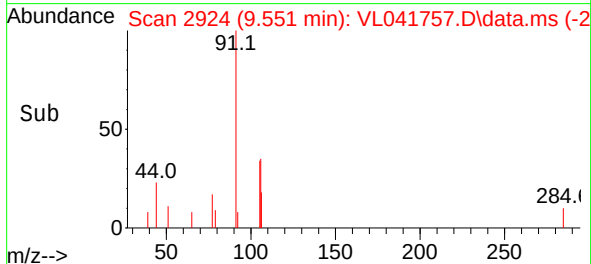
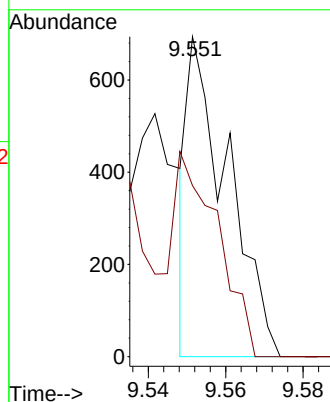
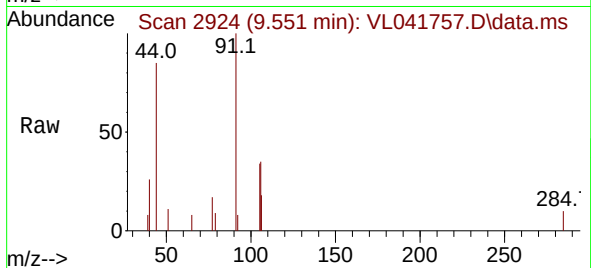




#59
m/p-Xylene
Concen: 0.022 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

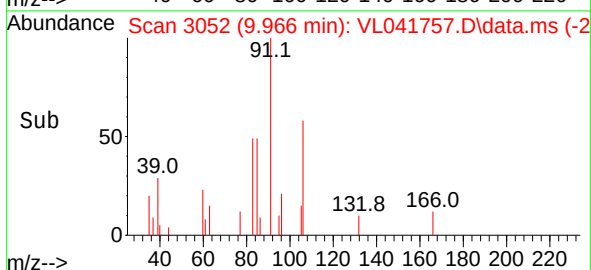
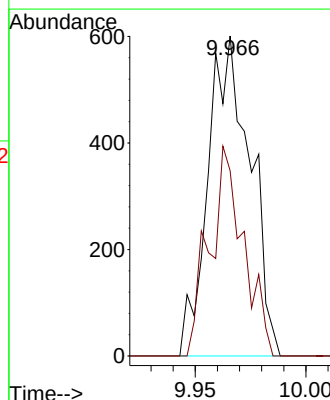
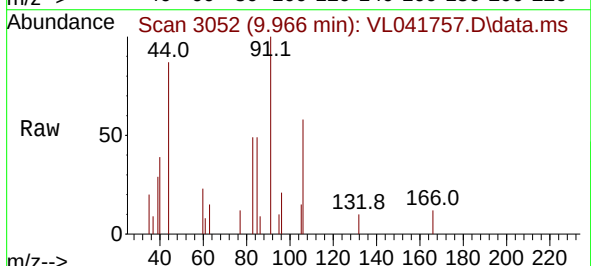
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

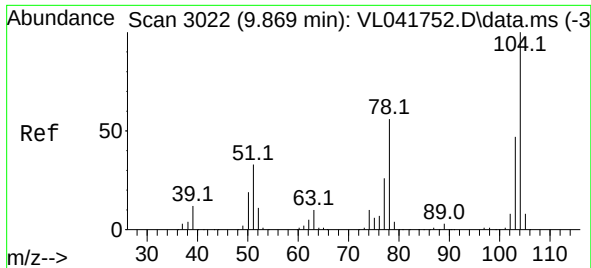
Tgt Ion: 91 Resp: 500
Ion Ratio Lower Upper
91 100
106 135.6 0.0 0.0#



#60
o-Xylene
Concen: 0.035 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion: 91 Resp: 796
Ion Ratio Lower Upper
91 100
106 52.9 21.1 63.4

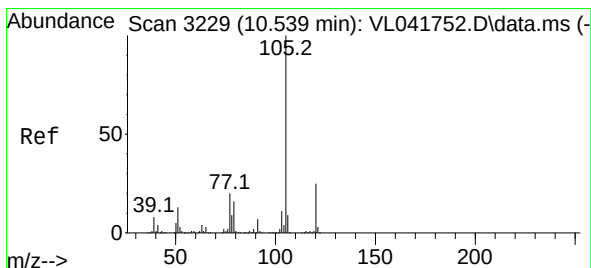
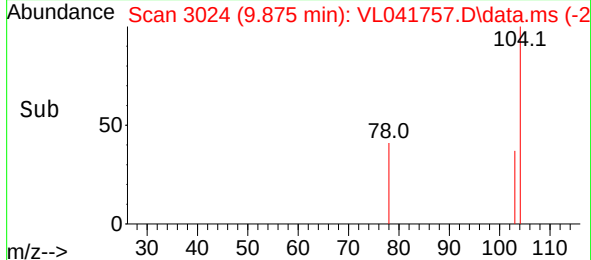
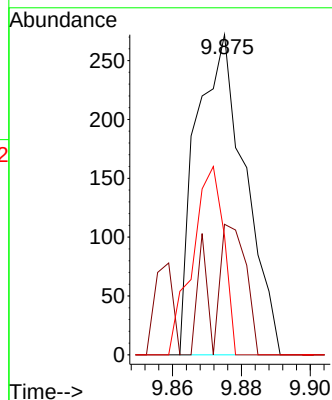
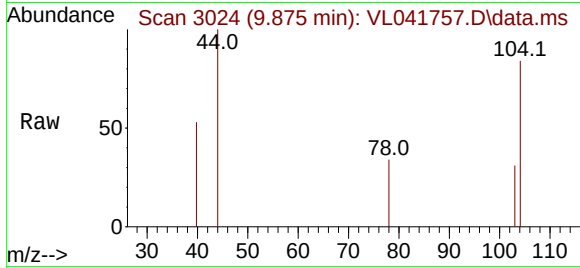




#61
Styrene
Concen: 0.027 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

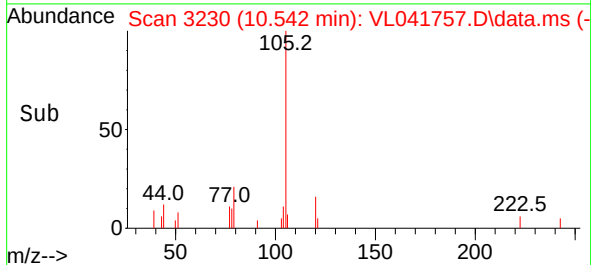
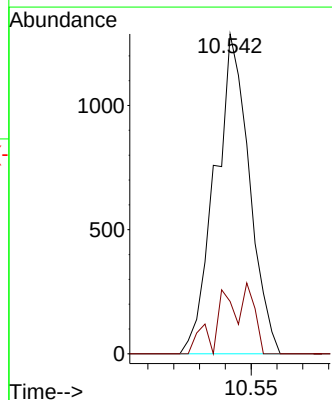
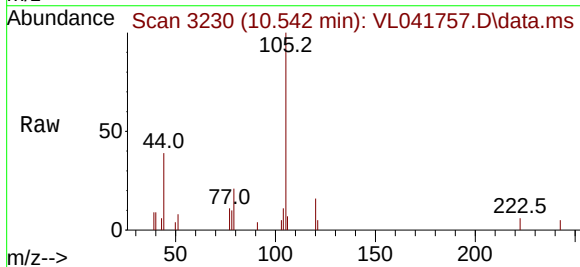
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

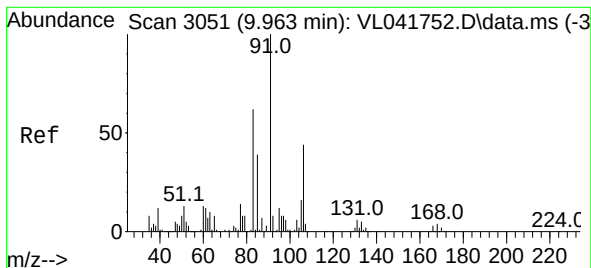
Tgt Ion:104 Resp: 267
Ion Ratio Lower Upper
104 100
78 28.8 43.8 65.6#
103 37.8 37.8 56.6



#62
Isopropylbenzene
Concen: 0.035 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion:105 Resp: 1186
Ion Ratio Lower Upper
105 100
120 20.7 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 9.969 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.03

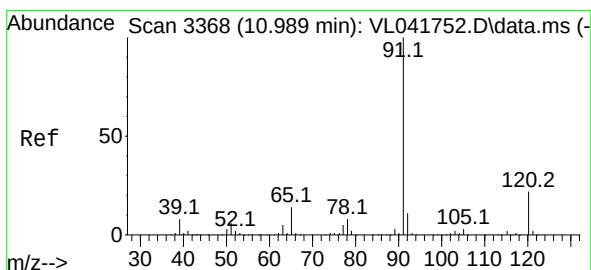
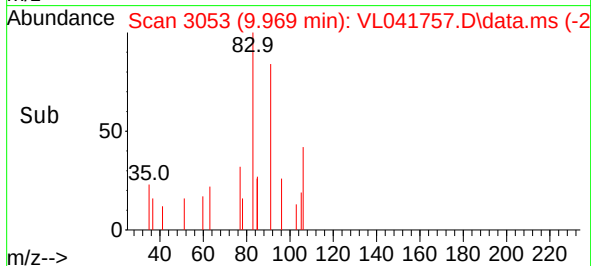
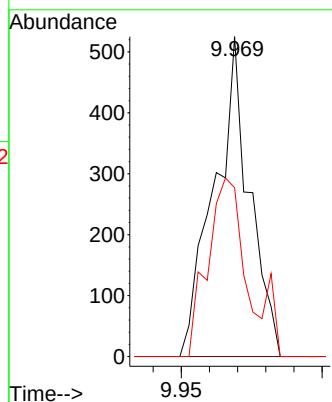
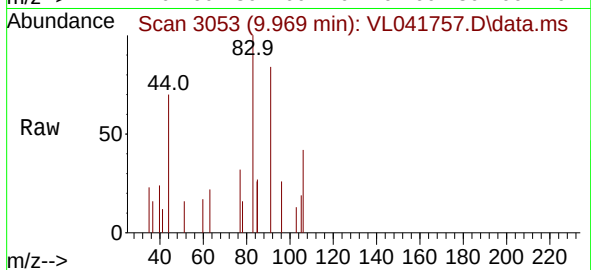
Tgt Ion: 83 Resp: 455

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 63.5 32.0 96.2



#64

n-propylbenzene

Concen: 0.015 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. 0.009 min

Lab File: VL041757.D

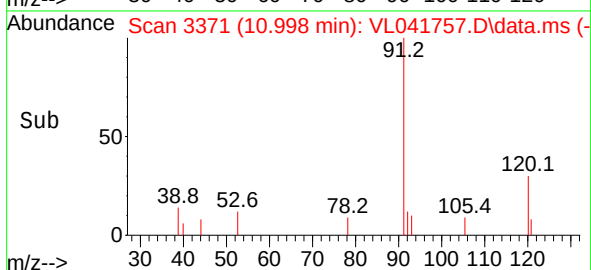
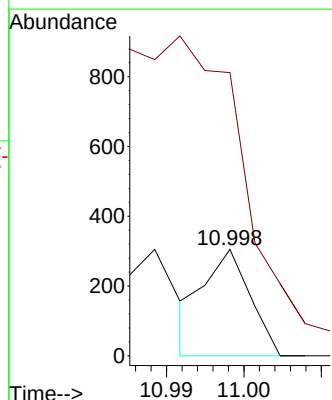
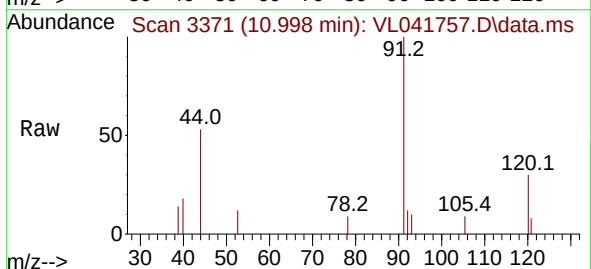
Acq: 16 Dec 2024 16:08

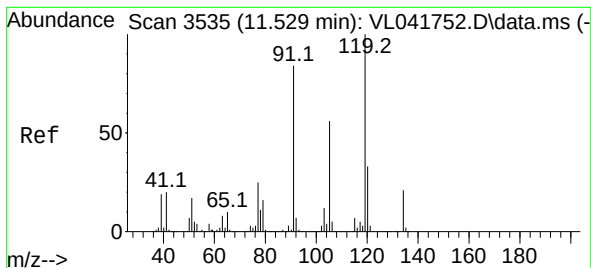
Tgt Ion:120 Resp: 126

Ion Ratio Lower Upper

120 100

91 0.0 387.3 580.9#





#65

tert-Butylbenzene

Concen: 0.015 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

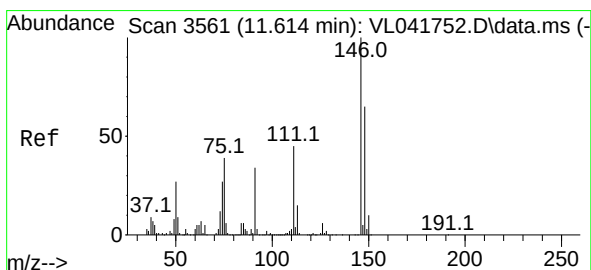
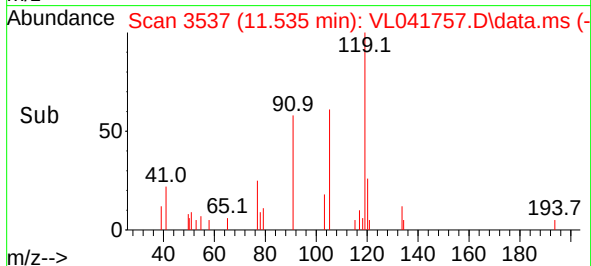
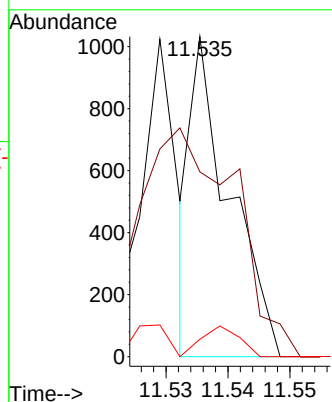
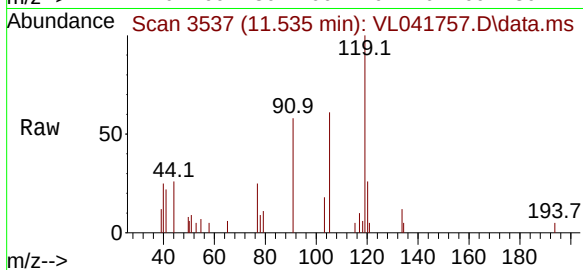
Tgt Ion:119 Resp: 444

Ion Ratio Lower Upper

119 100

91 188.3 67.0 100.4#

134 0.0 16.5 24.7#



#66

Benzyl Chloride

Concen: 0.016 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

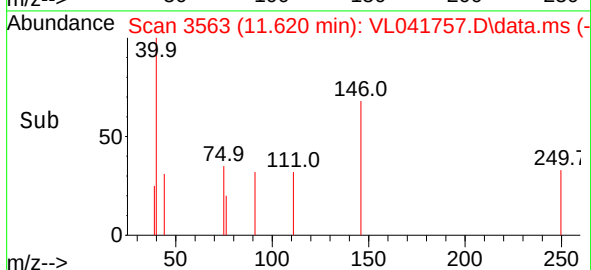
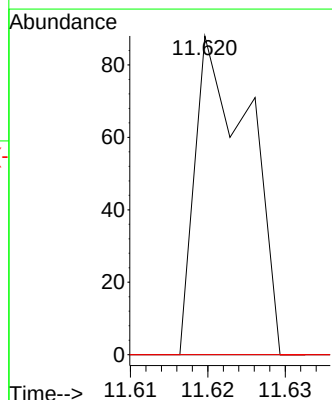
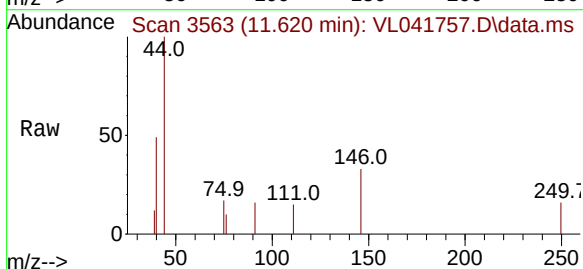
Tgt Ion: 91 Resp: 43

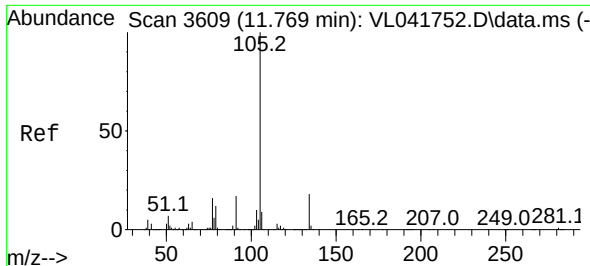
Ion Ratio Lower Upper

91 100

126 0.0 13.9 20.9#

128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.028 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

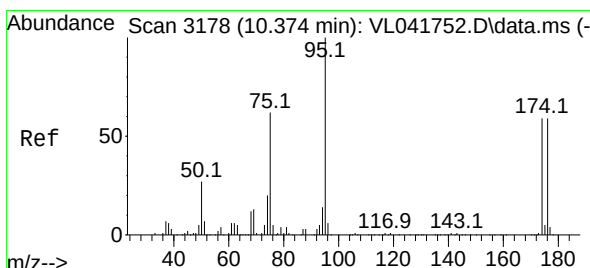
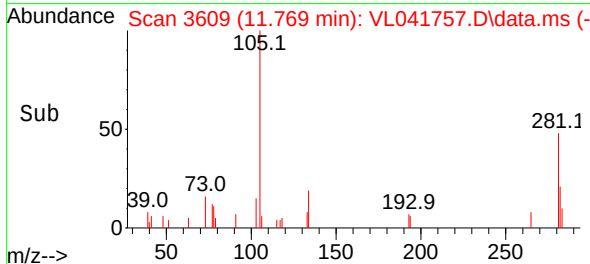
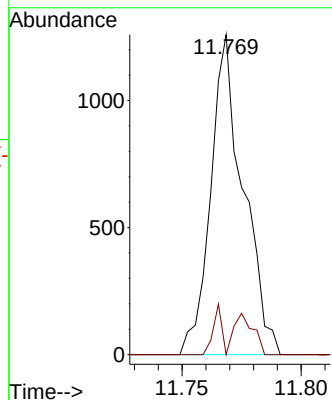
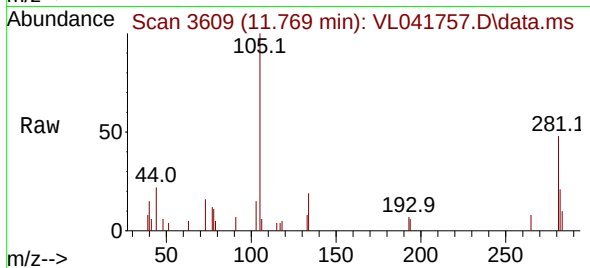
VSTDIC0.03

Tgt Ion:105 Resp: 1194

Ion Ratio Lower Upper

105 100

134 11.9 14.5 21.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.923 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

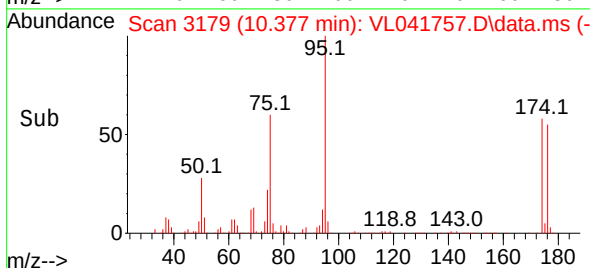
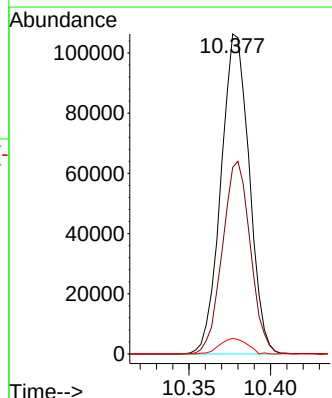
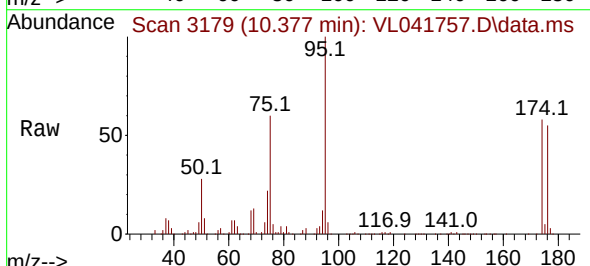
Tgt Ion: 95 Resp: 128167

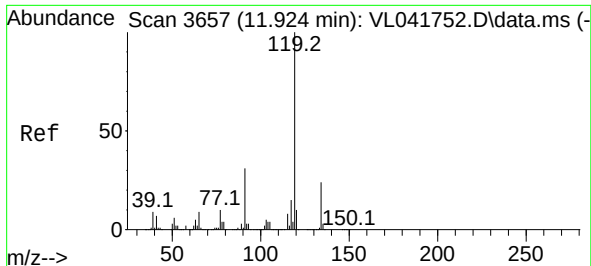
Ion Ratio Lower Upper

95 100

174 59.8 47.6 71.4

175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.022 ppbv

RT: 11.927 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

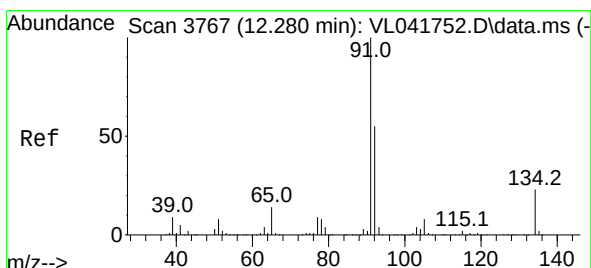
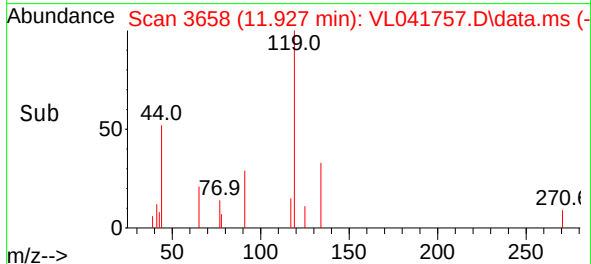
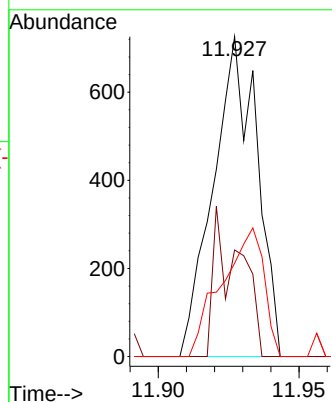
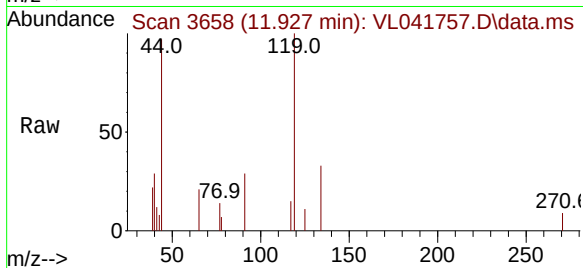
Tgt Ion:119 Resp: 781

Ion Ratio Lower Upper

119 100

134 28.0 19.6 29.4

91 40.3 24.4 36.6#



#70

n-Butylbenzene

Concen: 0.010 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.009 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

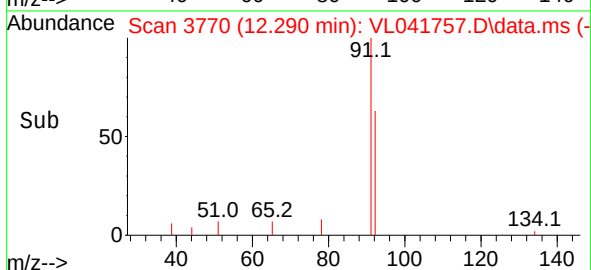
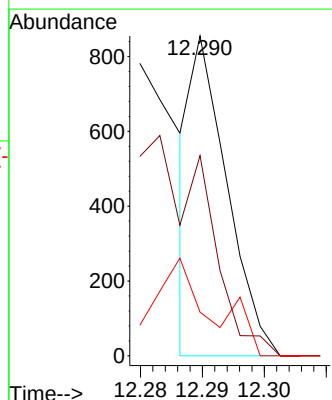
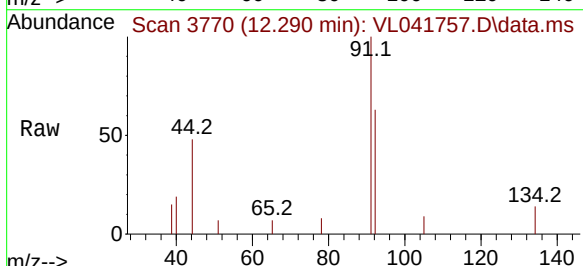
Tgt Ion: 91 Resp: 344

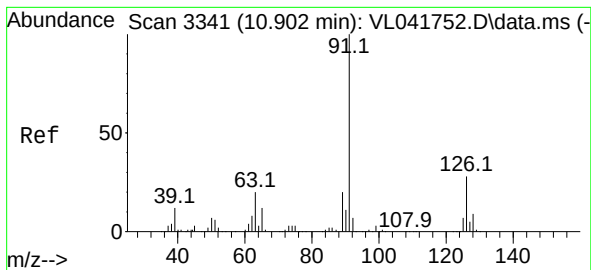
Ion Ratio Lower Upper

91 100

92 159.0 43.2 64.8#

134 61.0 18.2 27.4#





#71

2-Chlorotoluene

Concen: 0.017 ppbv

RT: 10.908 min Scan# 3412

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

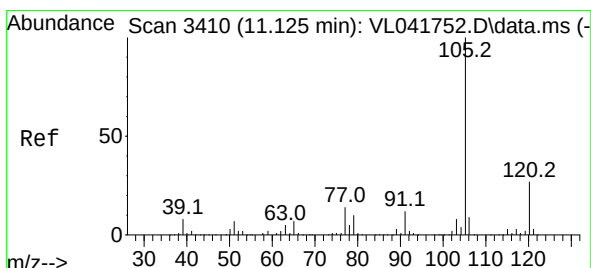
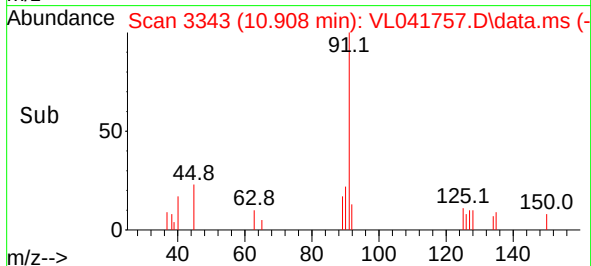
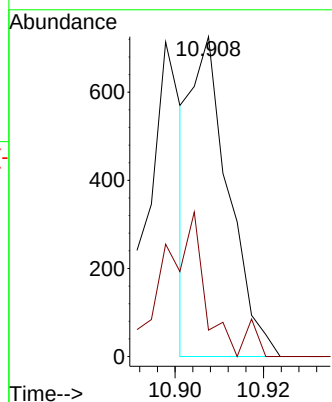
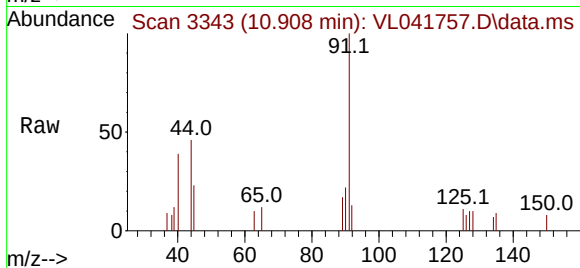
VSTDIC0.03

Tgt Ion: 91 Resp: 428

Ion Ratio Lower Upper

91 100

126 51.9 11.6 46.4#



#72

4-Ethyltoluene

Concen: 0.016 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion:105 Resp: 424

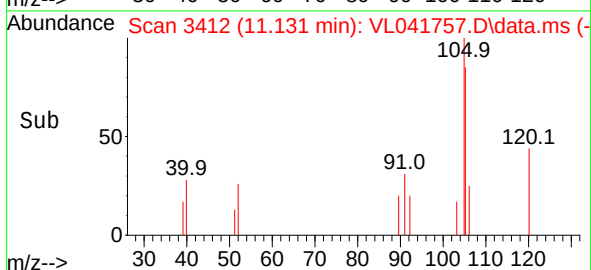
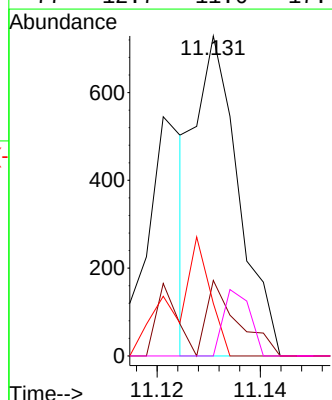
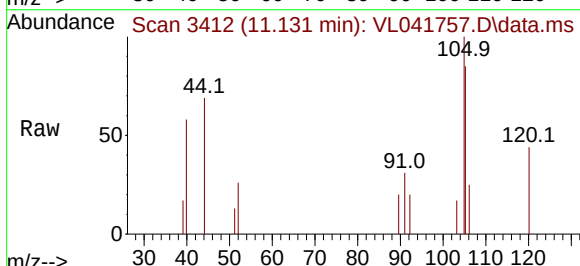
Ion Ratio Lower Upper

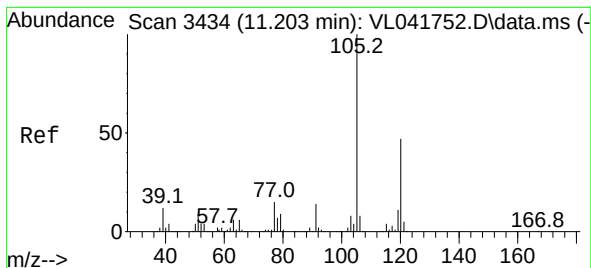
105 100

120 17.0 23.3 34.9#

91 34.7 10.9 16.3#

77 12.7 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.025 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

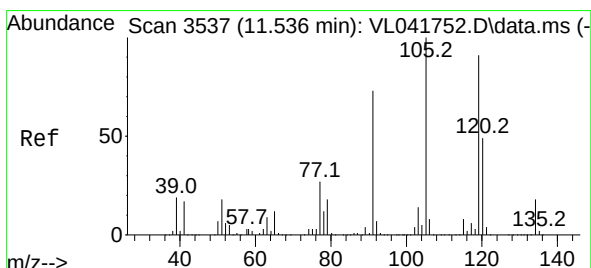
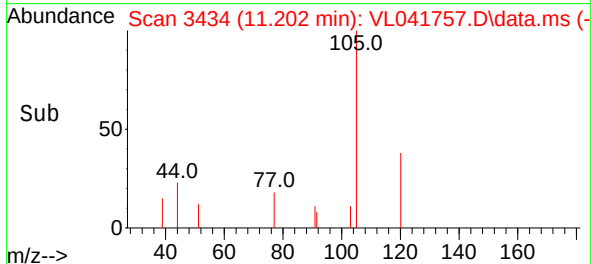
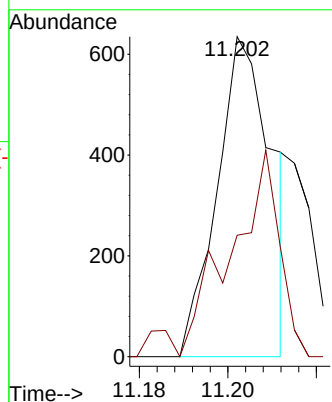
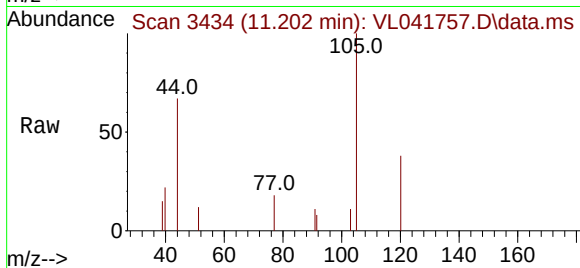
VSTDIC0.03

Tgt Ion:105 Resp: 540

Ion Ratio Lower Upper

105 100

120 38.0 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 0.031 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Tgt Ion:105 Resp: 724

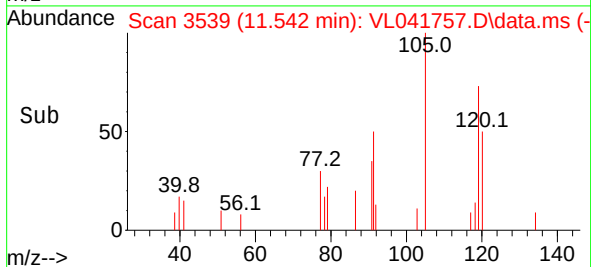
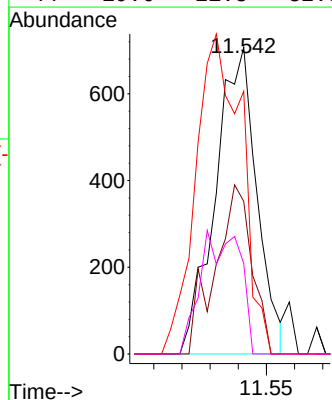
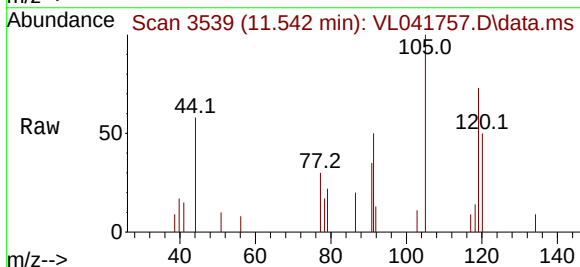
Ion Ratio Lower Upper

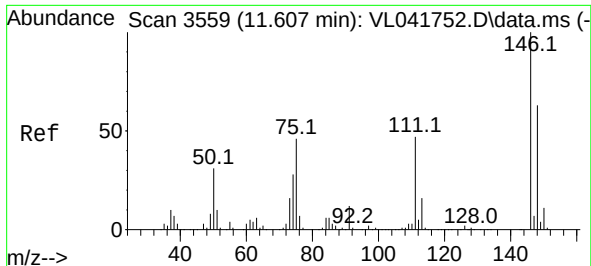
105 100

120 49.8 39.0 58.4

91 85.7 58.1 87.1

77 29.6 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 0.041 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

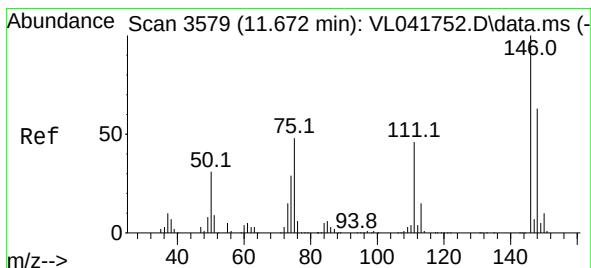
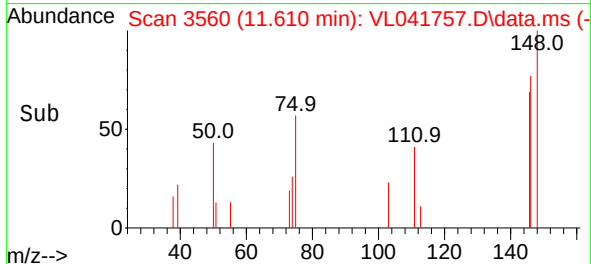
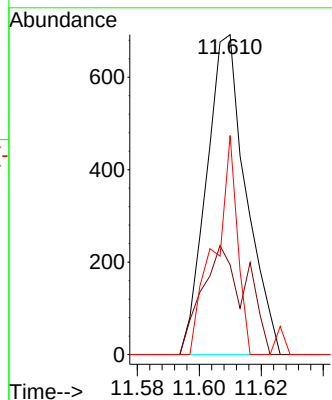
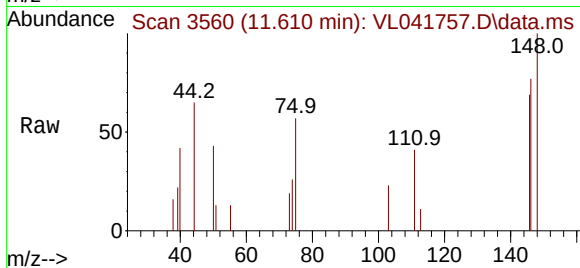
Tgt Ion:146 Resp: 613

Ion Ratio Lower Upper

146 100

111 37.8 23.4 70.3

148 41.4 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 0.037 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

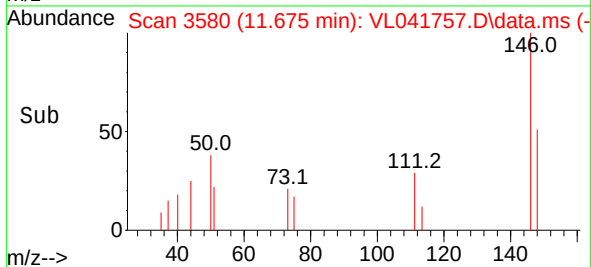
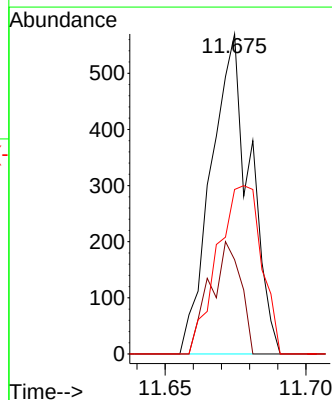
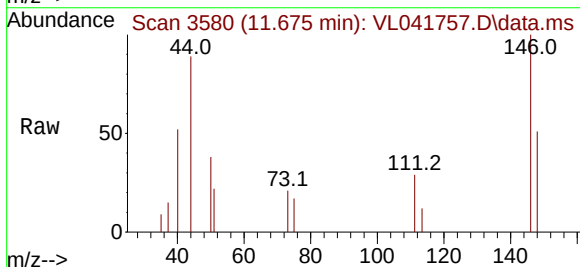
Tgt Ion:146 Resp: 547

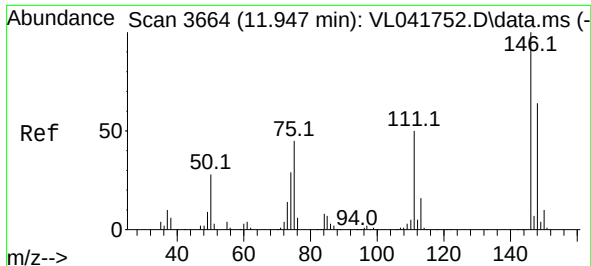
Ion Ratio Lower Upper

146 100

111 27.6 22.7 68.1

148 59.8 31.4 94.0

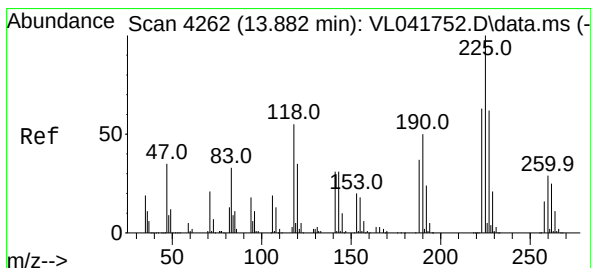
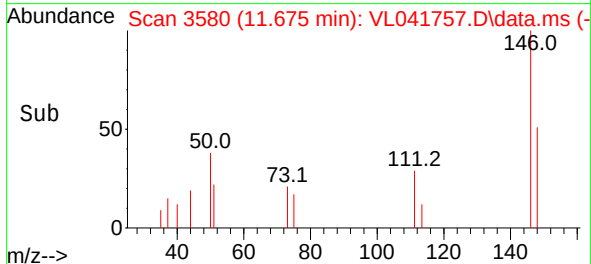
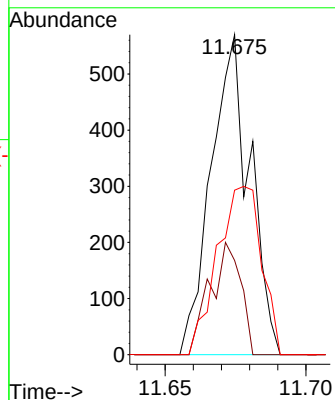
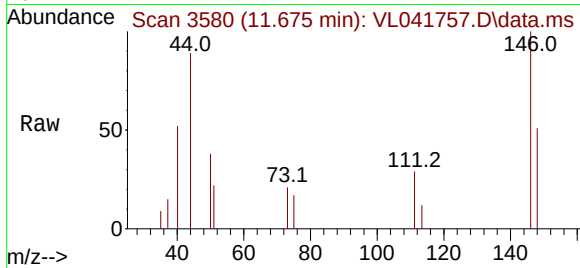




#77
1,2-Dichlorobenzene
Concen: 0.038 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.272 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

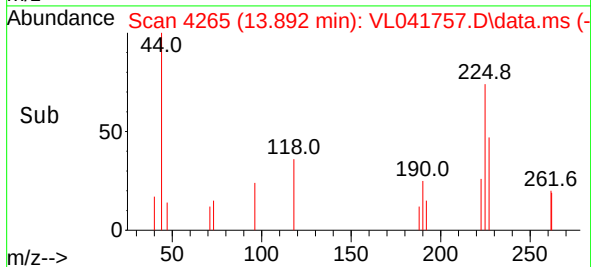
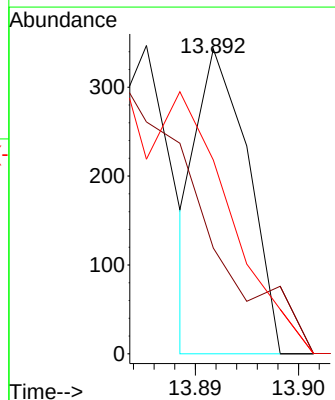
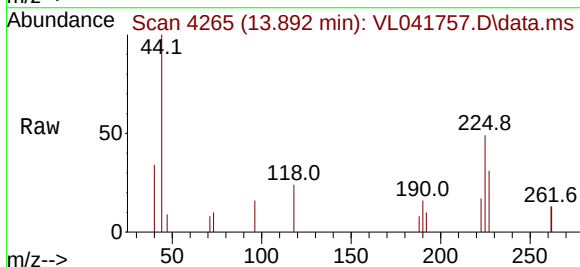
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

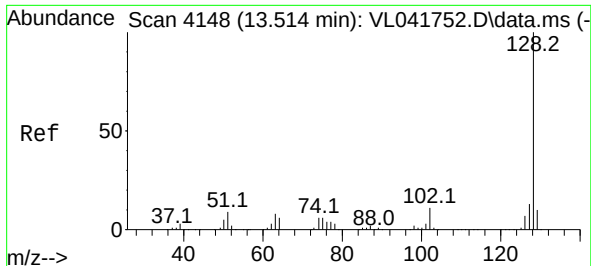
Tgt Ion:146 Resp: 547
Ion Ratio Lower Upper
146 100
111 27.6 24.8 74.3
148 59.8 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 0.010 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.009 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Tgt Ion:225 Resp: 112
Ion Ratio Lower Upper
225 100
223 0.0 50.5 75.7#
227 0.0 50.3 75.5#





#79

Naphthalene

Concen: 0.033 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

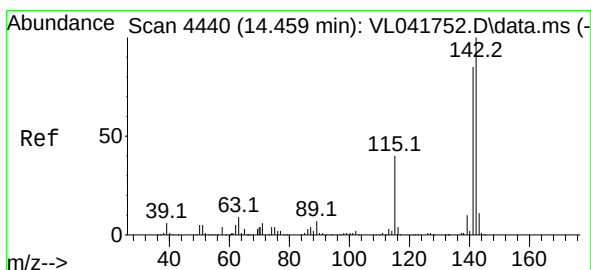
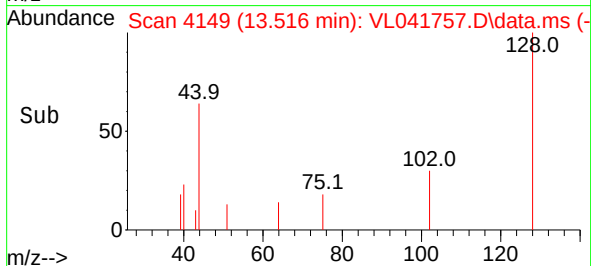
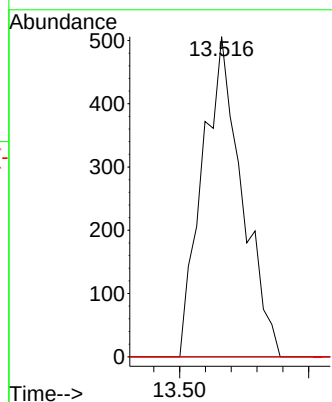
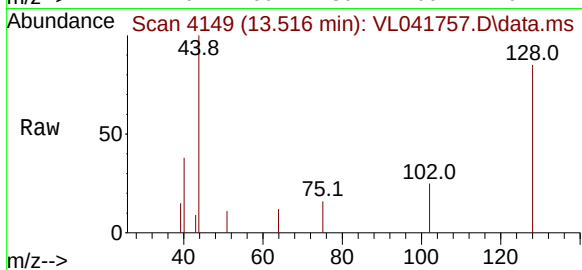
Tgt Ion:128 Resp: 540

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.2 12.4#



#80

Naphthalene, 2-methyl-

Concen: 0.040 ppbv

RT: 14.465 min Scan# 4442

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

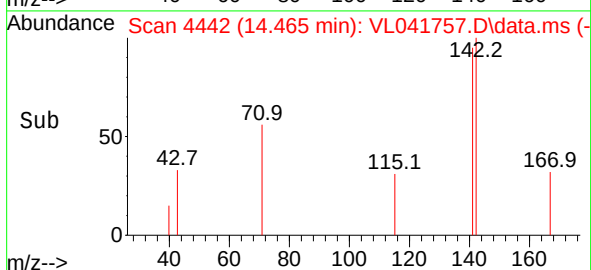
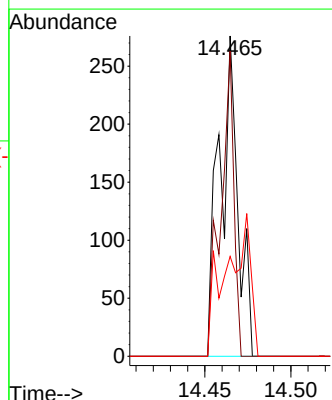
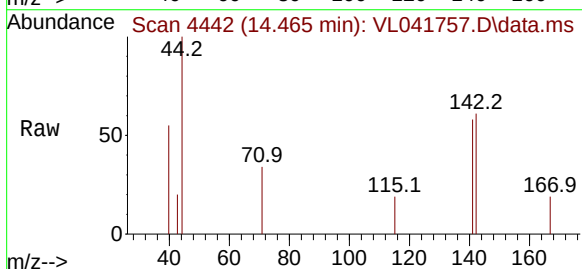
Tgt Ion:142 Resp: 206

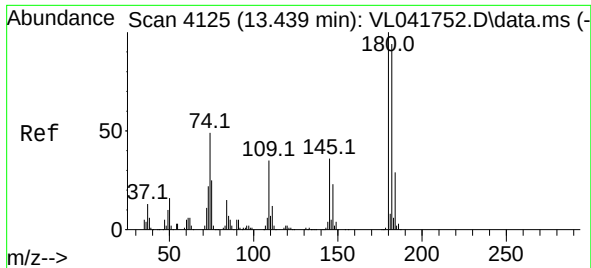
Ion Ratio Lower Upper

142 100

141 68.0 68.4 102.6#

115 59.2 32.5 48.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.065 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL041757.D

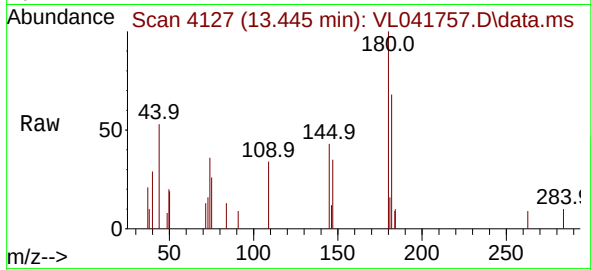
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



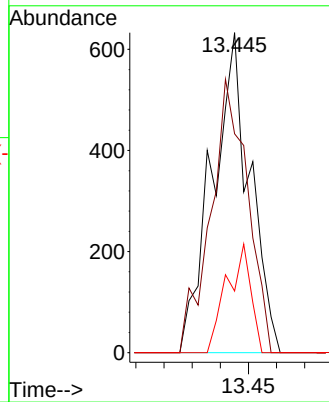
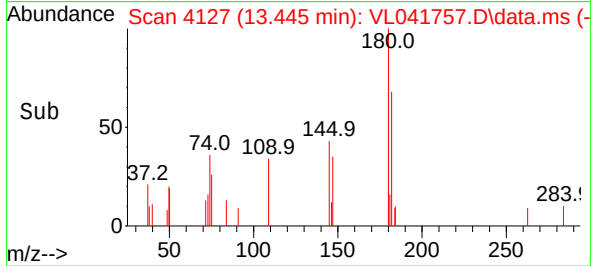
Tgt Ion:180 Resp: 586

Ion Ratio Lower Upper

180 100

182 84.0 77.0 115.6

184 21.7 23.8 35.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Dec 19 06:16:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	65186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	176856	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	160457	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	133687	9.998	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.496	85	152683	13.163	ppbv	95
3) Chlorodifluoromethane	1.473	51	152455	14.341	ppbv	98
4) Chloromethane	1.531	50	63517	13.996	ppbv	98
5) Vinyl Chloride	1.577	62	62250	13.615	ppbv	99
6) Bromomethane	1.667	94	30345	14.064	ppbv	96
7) Chloroethane	1.703	64	25650	14.442	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	148190	14.274	ppbv	99
9) Propene	1.483	41	61515	13.351	ppbv	99
10) Heptane	4.978	43	168804	14.263	ppbv	100
11) Trichlorofluoromethane	1.874	101	177984	14.446	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	135538	14.464	ppbv	98
13) Ethanol	1.719	45	3643	9.509	ppbv	100
14) Bromoethene	1.780	108	47132	14.898	ppbv	99
15) Acetone	1.832	43	142980	11.273	ppbv	100
16) 1,3-Butadiene	1.606	39	68311	13.678	ppbv	98
17) tert-Butyl alcohol	2.036	59	177908	14.140	ppbv	99
18) 1,1-Dichloroethene	2.033	96	57770	14.705	ppbv	99
19) Isopropyl Alcohol	1.884	45	82211	10.802	ppbv	99
20) Methylene Chloride	2.059	84	48356	13.371	ppbv	99
21) Allyl Chloride	2.094	41	101528	14.760	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	65029	14.461	ppbv	97
23) Vinyl Acetate	2.460	43	80795	14.661	ppbv	98
24) 1,1-Dichloroethane	2.405	63	131030	14.394	ppbv	100
25) Ethyl Acetate	2.832	43	341429	14.402	ppbv	100
26) Hexane	2.823	57	128657	14.369	ppbv	99
27) Carbon Disulfide	2.149	76	134963	16.726	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	100758	13.871	ppbv	100
29) Chloroform	2.845	83	197713	14.489	ppbv	99
30) Cyclohexane	3.855	84	110448	14.497	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	132821	14.355	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	204468	15.055	ppbv	100
34) 2-Butanone	2.554	43	195439	13.736	ppbv	99
35) Carbon Tetrachloride	3.761	117	206252	16.428	ppbv	94
36) Benzene	3.654	78	259630	14.192	ppbv	99
37) 1,2-Dichloroethane	3.214	62	166576	14.633	ppbv	100
38) Trichloroethene	4.548	130	104184	13.525	ppbv	95
39) 1,2-Dichloropropane	4.312	63	93624	14.150	ppbv	97
40) 1,4-Dioxane	4.577	88	44377	13.730	ppbv #	96
41) Tetrahydrofuran	3.052	42	113618	14.254	ppbv	100
42) Bromodichloromethane	4.486	83	211145	16.123	ppbv	96
43) Methyl Methacrylate	4.878	69	107165	15.374	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	445947	14.274	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	115159	15.973	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

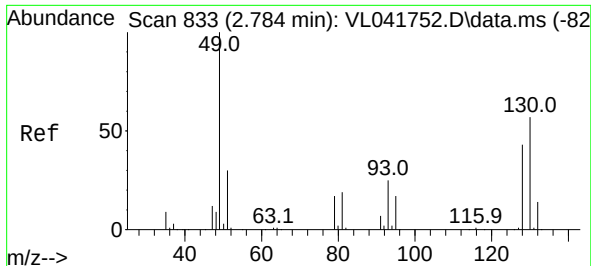
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	143172	15.643	ppbv	95
47) 1,1,2-Trichloroethane	6.580	97	98426	14.242	ppbv	94
48) Dibromochloromethane	7.386	129	161661	17.131	ppbv	100
49) Bromoform	9.484	173	137786	17.838	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	285467	14.735	ppbv	99
51) 2-Hexanone	7.435	43	232363	14.798	ppbv #	100
52) Tetrachloroethene	8.225	164	93120	13.675	ppbv	98
53) Toluene	6.930	91	301428	14.533	ppbv	100
54) 1,2-Dibromoethane	7.652	107	139889	14.690	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	128108	15.059	ppbv	99
57) Chlorobenzene	8.924	112	227716	13.869	ppbv	100
58) Ethyl Benzene	9.354	91	425852	14.742	ppbv	99
59) m/p-Xylene	9.552	91	363863	15.660	ppbv #	100
60) o-Xylene	9.963	91	337891	14.506	ppbv	100
61) Styrene	9.869	104	165328	16.415	ppbv	100
62) Isopropylbenzene	10.539	105	506570	14.475	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	201057	13.790	ppbv	100
64) n-propylbenzene	10.989	120	129200	14.602	ppbv	97
65) tert-Butylbenzene	11.532	119	446690	14.148	ppbv	98
66) Benzyl Chloride	11.617	91	45189	16.234	ppbv	99
67) sec-Butylbenzene	11.769	105	624565	14.295	ppbv	99
69) p-Isopropyltoluene	11.927	119	528265	14.671	ppbv	99
70) n-Butylbenzene	12.283	91	525377	15.101	ppbv	100
71) 2-Chlorotoluene	10.901	91	387300	14.498	ppbv	100
72) 4-Ethyltoluene	11.125	105	409822	14.934	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	350895	15.383	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	371476	15.144	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	219506	14.036	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	222290	14.388	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	205737	13.672	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	138481	12.412	ppbv	100
79) Naphthalene	13.513	128	301006	17.611	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	161927	30.630	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	146340	15.669	ppbv	99

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

Quant Time: Dec 19 06:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

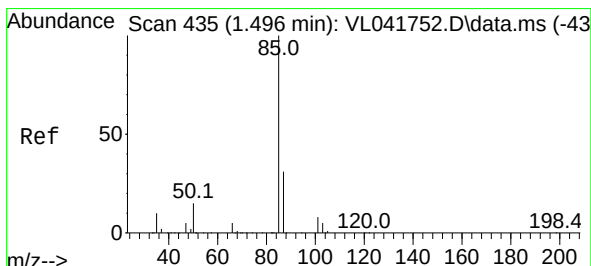
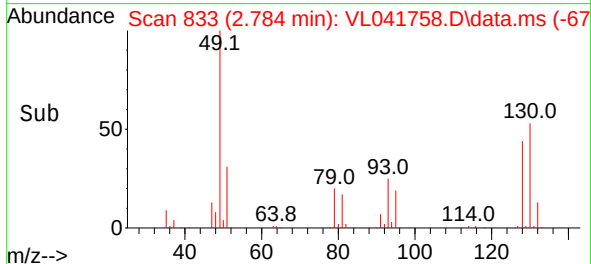
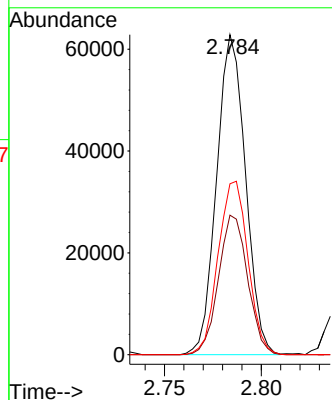
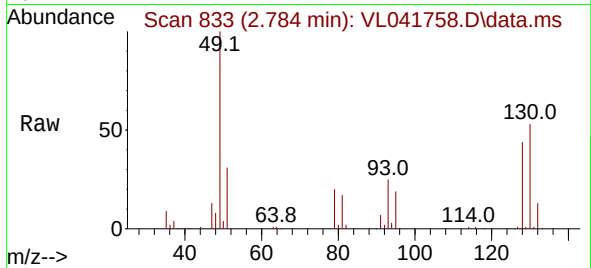




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

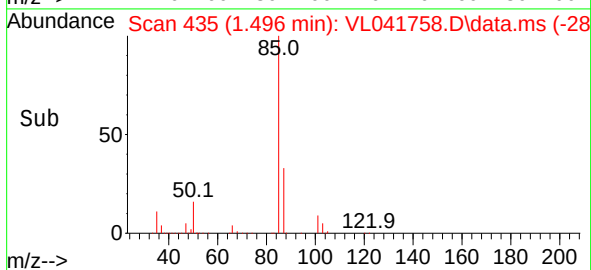
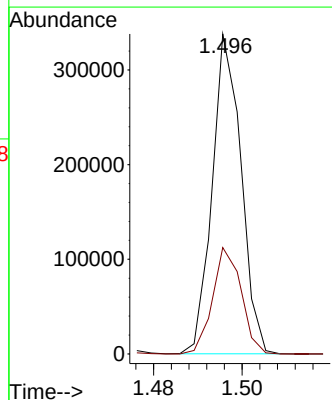
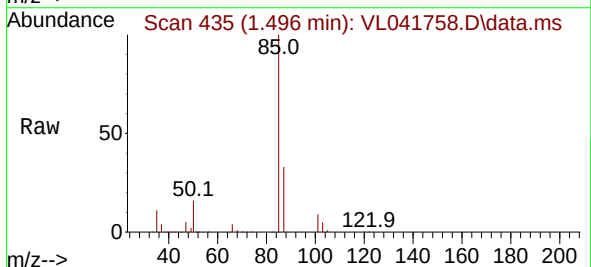
Instrument :
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 ClientSampleId :
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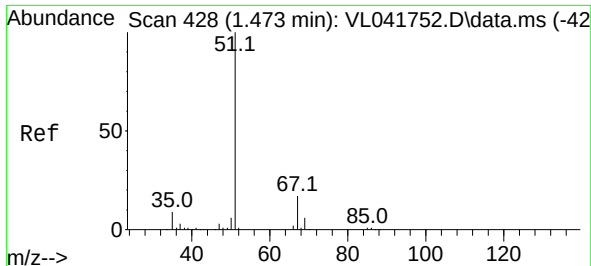
Tgt Ion: 49 Resp: 65186
 Ion Ratio Lower Upper
 49 100
 128 44.0 21.6 64.6
 130 56.0 28.3 85.0



#2
 Dichlorodifluoromethane
 Concen: 13.163 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Tgt Ion: 85 Resp: 152683
 Ion Ratio Lower Upper
 85 100
 87 33.3 24.5 36.7

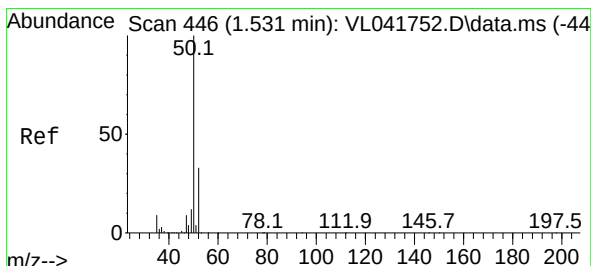
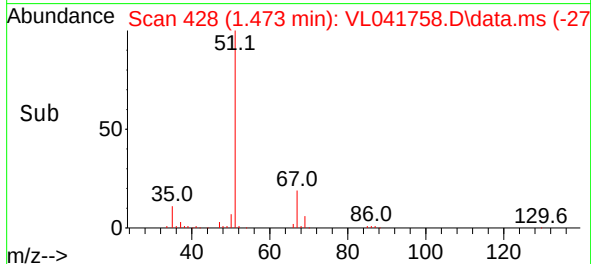
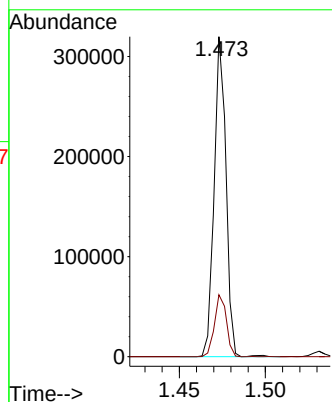
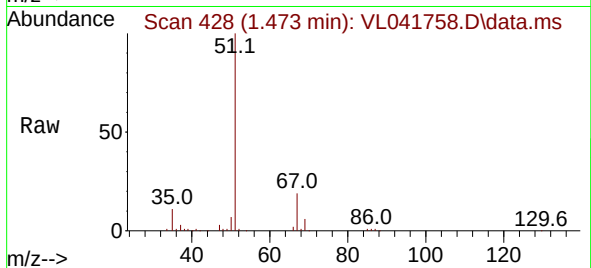




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

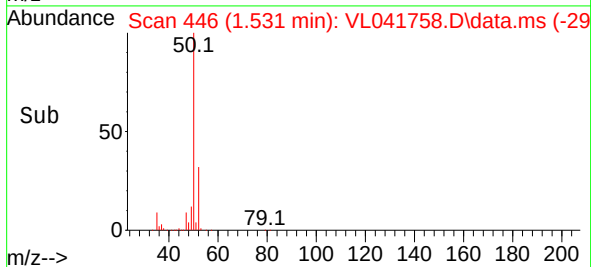
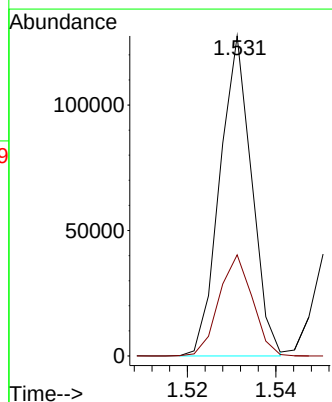
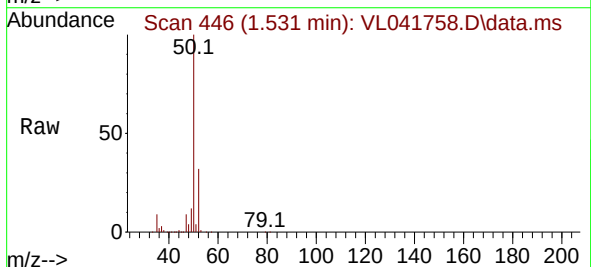
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

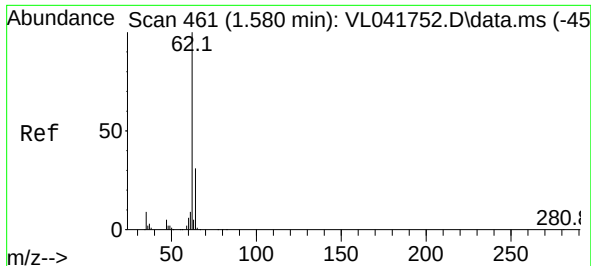
Tgt Ion: 51 Resp: 152455
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.4



#4
Chloromethane
Concen: 13.996 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 50 Resp: 63517
Ion Ratio Lower Upper
50 100
52 31.5 26.2 39.2

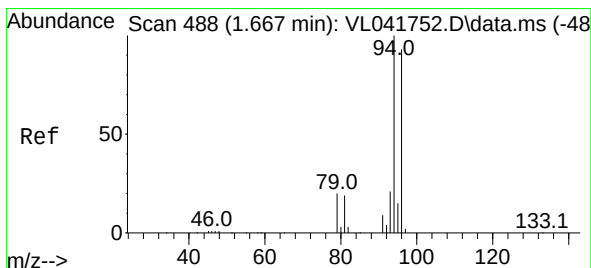
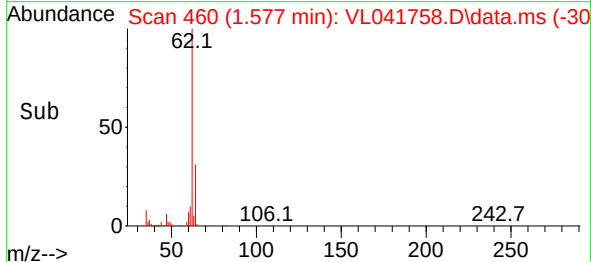
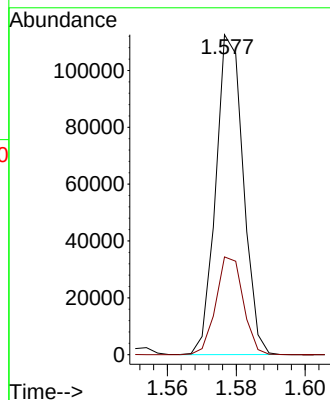
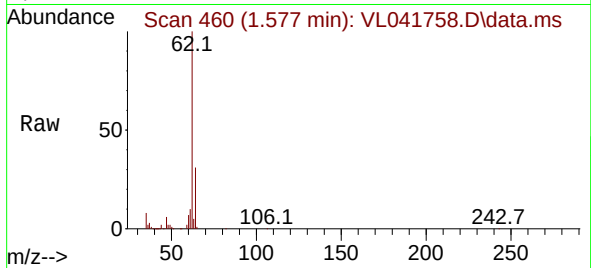




#5
 Vinyl Chloride
 Concen: 13.615 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

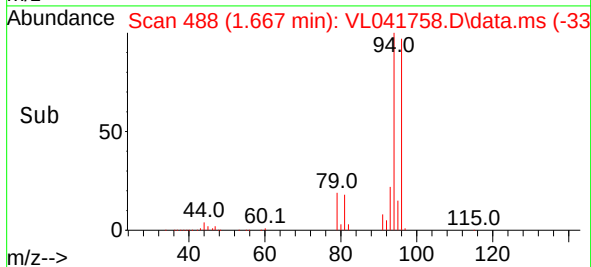
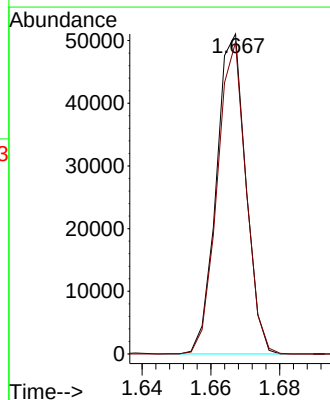
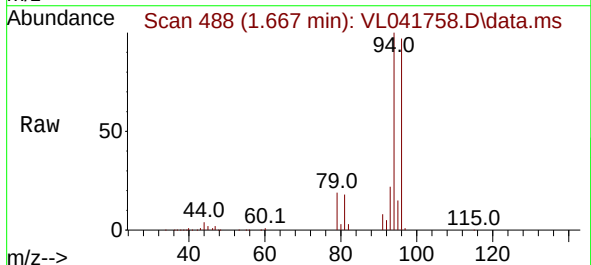
Instrument :
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 ClientSampleId :
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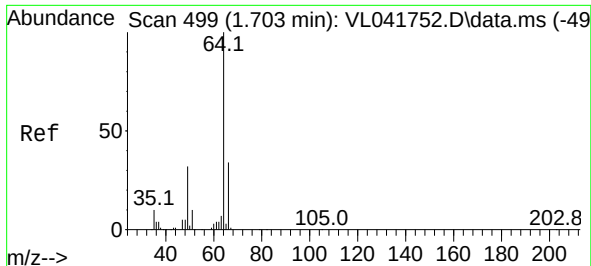
Tgt Ion: 62 Resp: 62250
 Ion Ratio Lower Upper
 62 100
 64 30.6 25.1 37.7



#6
 Bromomethane
 Concen: 14.064 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Tgt Ion: 94 Resp: 30345
 Ion Ratio Lower Upper
 94 100
 96 97.3 74.7 112.1

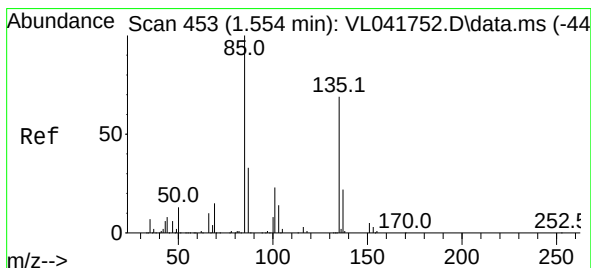
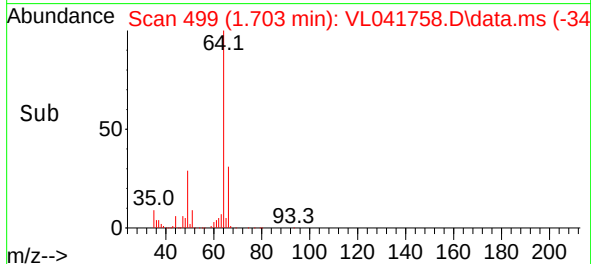
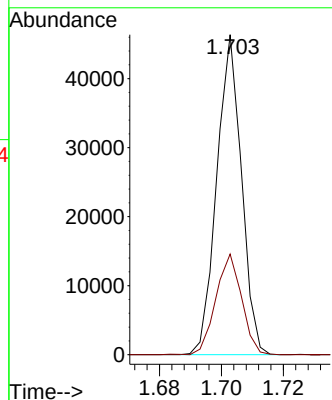
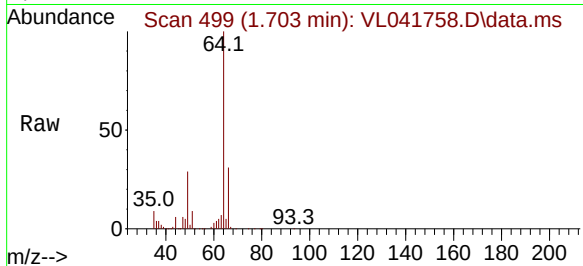




#7
Chloroethane
Concen: 14.442 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

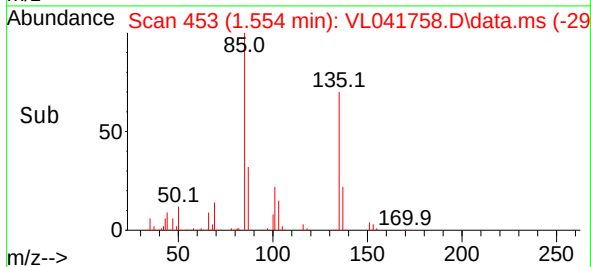
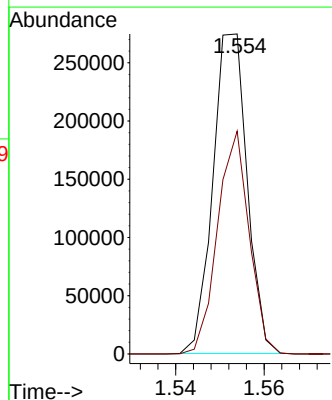
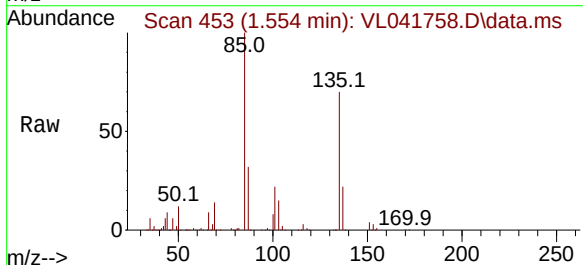
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

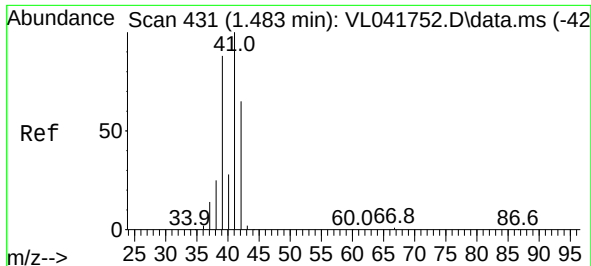
Tgt Ion: 64 Resp: 25650
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 14.274 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 85 Resp: 148190
Ion Ratio Lower Upper
85 100
135 64.1 51.9 77.9





#9

Propene

Concen: 13.351 ppbv

RT: 1.483 min Scan# 431

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

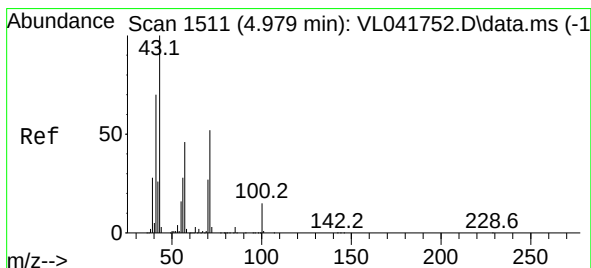
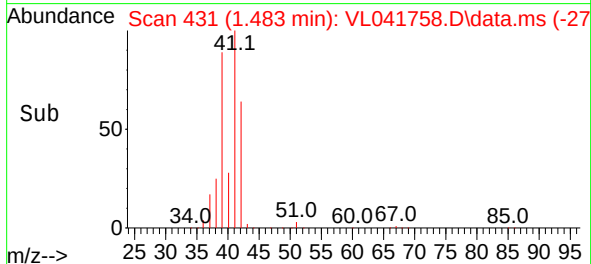
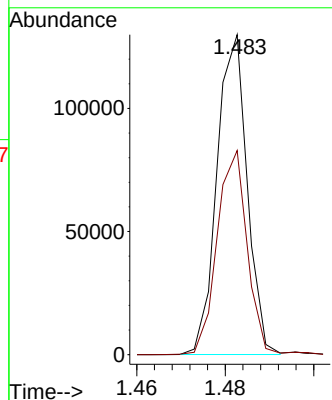
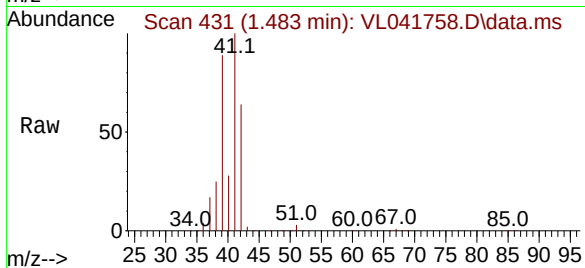
VSTDIC015

Tgt Ion: 41 Resp: 61515

Ion Ratio Lower Upper

41 100

42 64.4 52.4 78.6



#10

Heptane

Concen: 14.263 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL041758.D

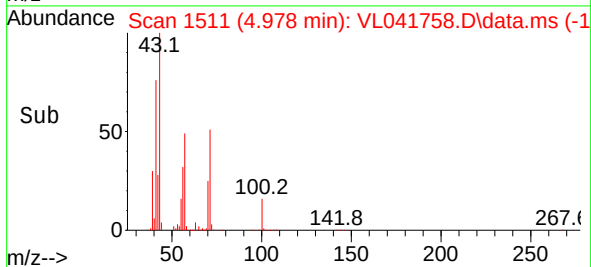
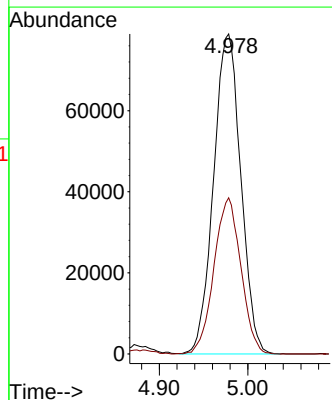
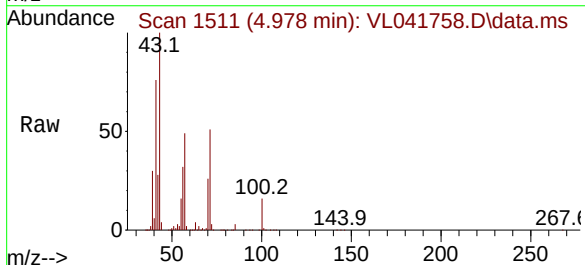
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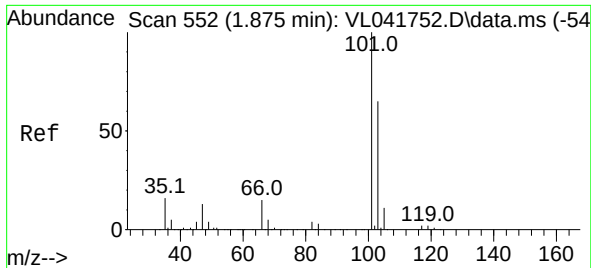
Tgt Ion: 43 Resp: 168804

Ion Ratio Lower Upper

43 100

57 48.2 38.5 57.7

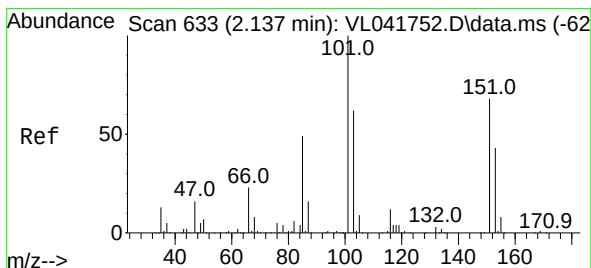
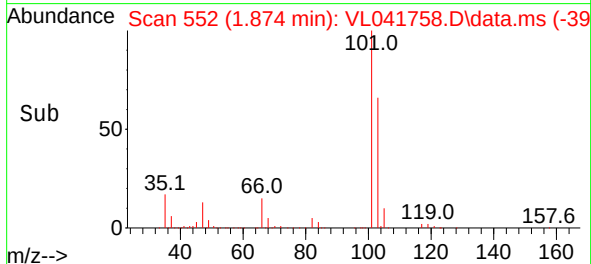
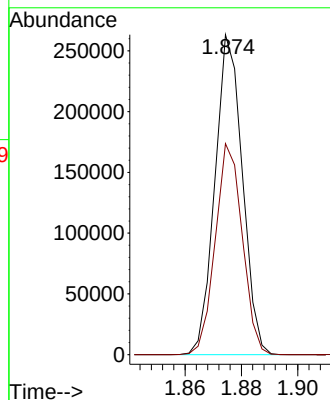
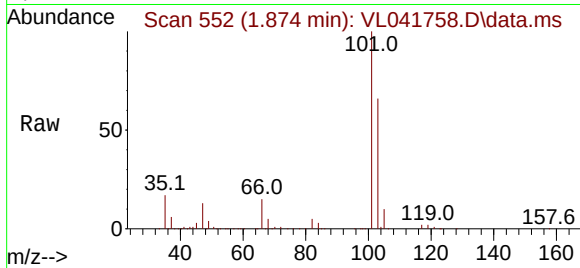




#11
Trichlorofluoromethane
Concen: 14.446 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

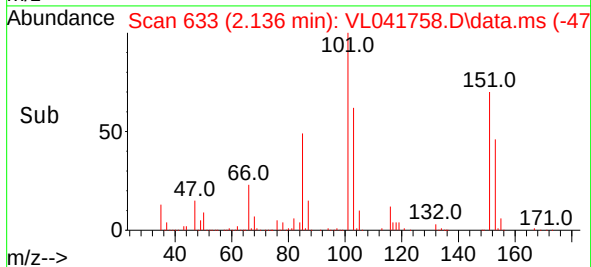
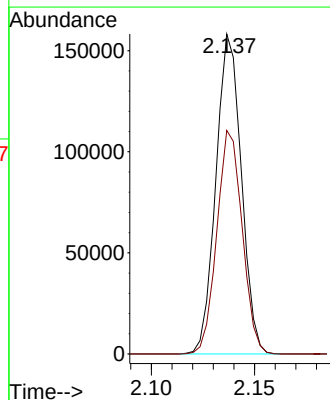
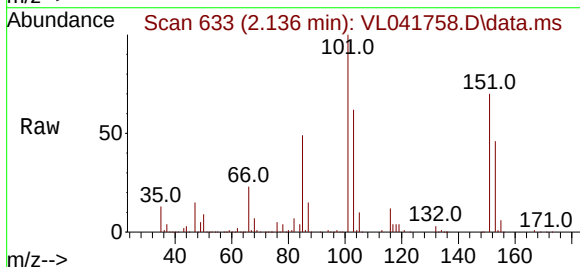
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

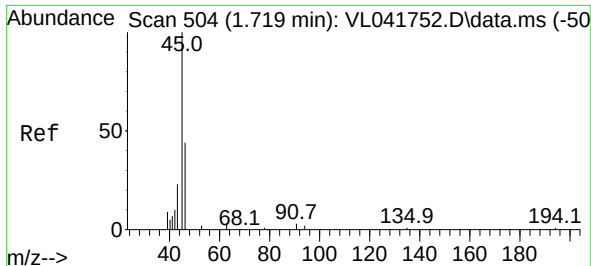
Tgt Ion:101 Resp: 177984
Ion Ratio Lower Upper
101 100
103 65.9 51.8 77.8



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.464 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:101 Resp: 135538
Ion Ratio Lower Upper
101 100
151 69.6 56.8 85.2





#13

Ethanol

Concen: 9.509 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

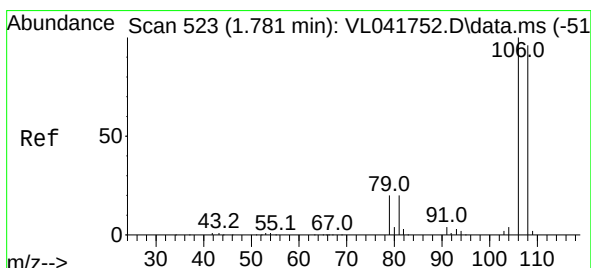
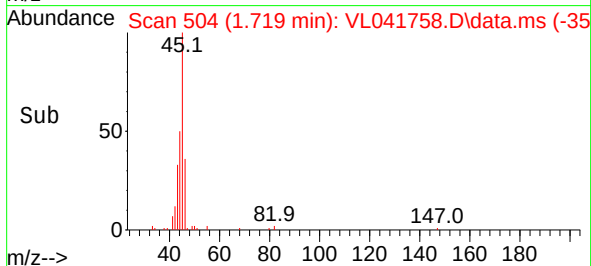
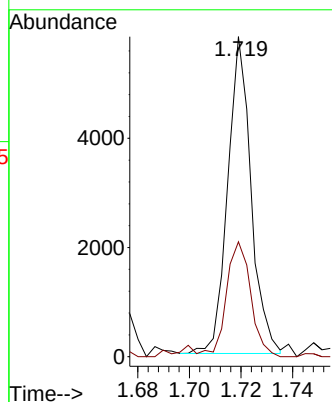
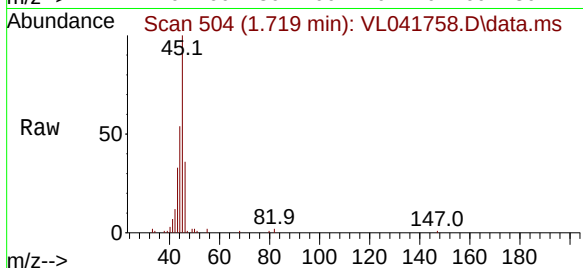
VSTDIC015

Tgt Ion: 45 Resp: 3643

Ion Ratio Lower Upper

45 100

46 41.2 16.4 65.8



#14

Bromoethene

Concen: 14.898 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

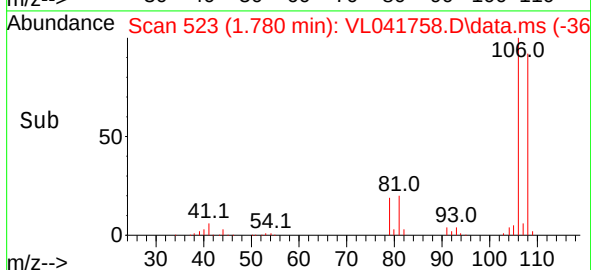
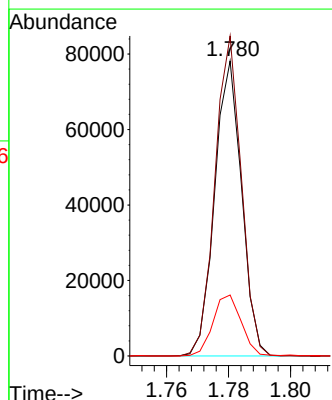
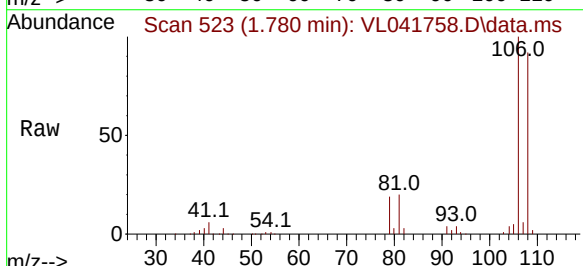
Tgt Ion: 108 Resp: 47132

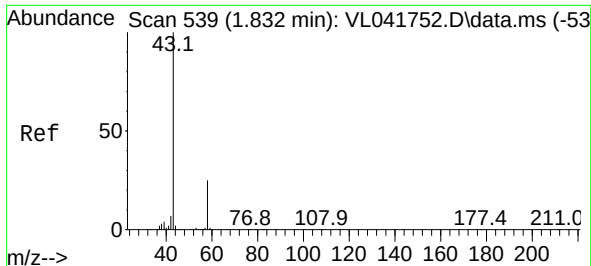
Ion Ratio Lower Upper

108 100

106 105.9 84.1 126.1

79 22.1 17.4 26.0





#15

Acetone

Concen: 11.273 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

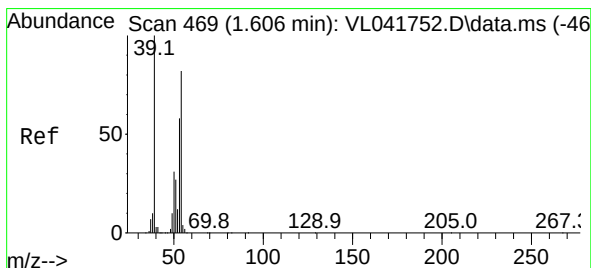
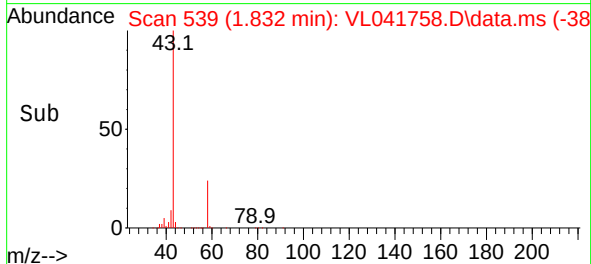
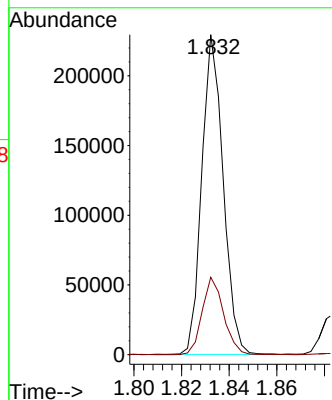
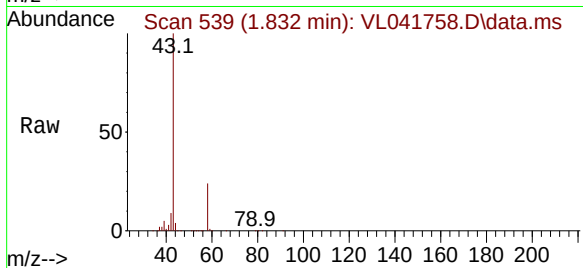
VSTDIC015

Tgt Ion: 43 Resp: 142980

Ion Ratio Lower Upper

43 100

58 24.4 19.7 29.5



#16

1,3-Butadiene

Concen: 13.678 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL041758.D

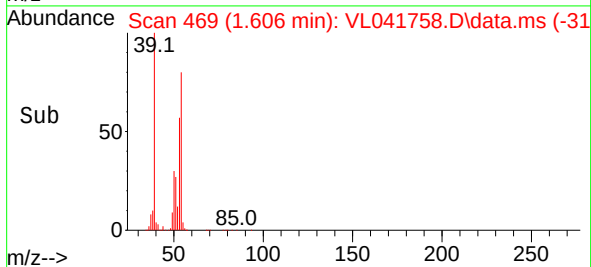
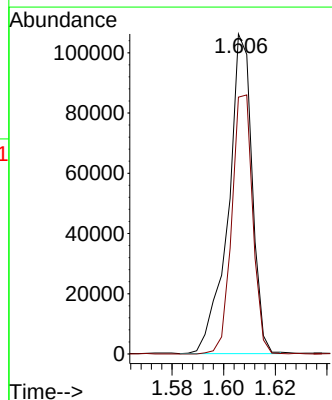
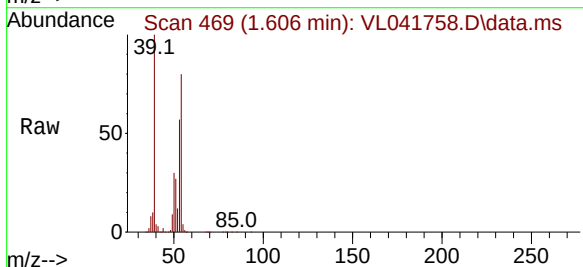
Acq: 16 Dec 2024 16:41

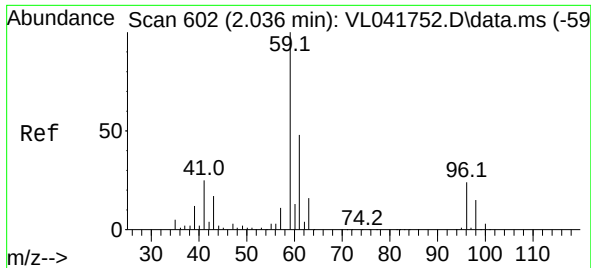
Tgt Ion: 39 Resp: 68311

Ion Ratio Lower Upper

39 100

54 71.3 58.4 87.6

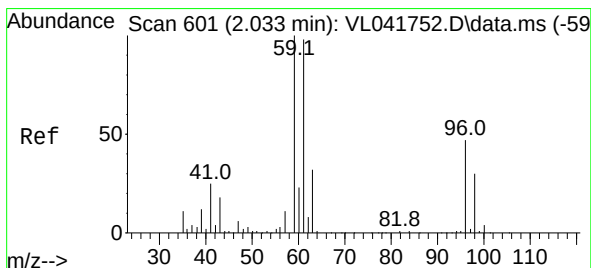
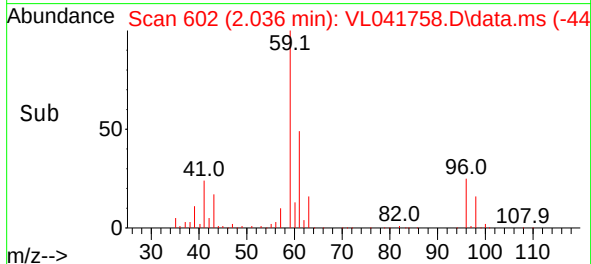
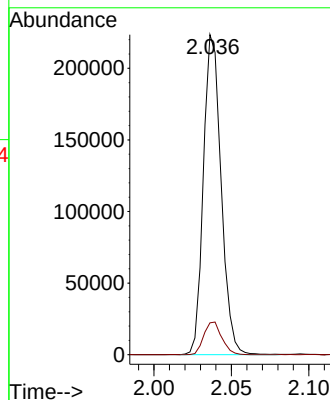
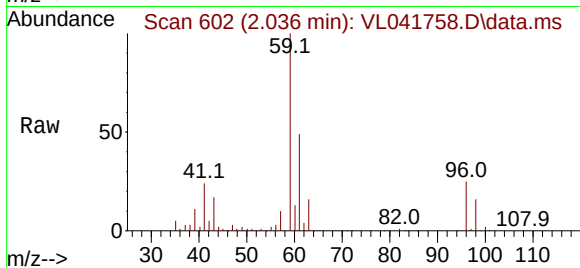




#17
tert-Butyl alcohol
Concen: 14.140 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

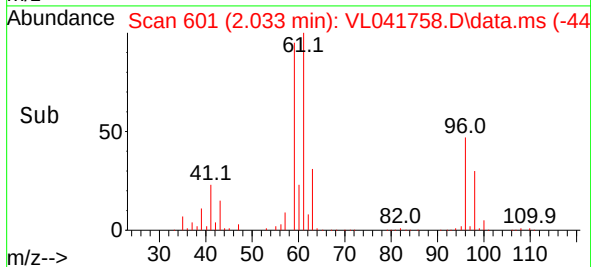
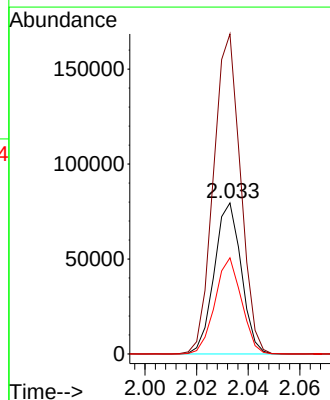
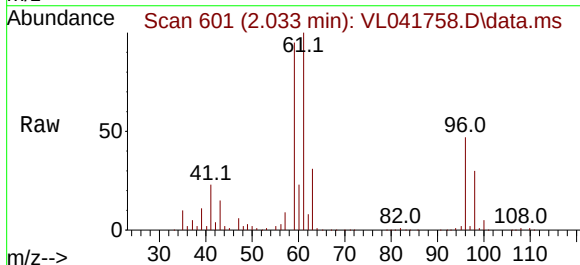
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

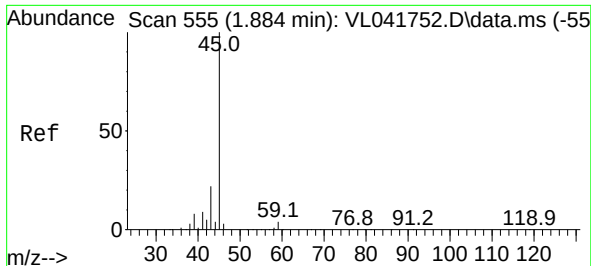
Tgt Ion: 59 Resp: 177908
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0



#18
1,1-Dichloroethene
Concen: 14.705 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 96 Resp: 57770
Ion Ratio Lower Upper
96 100
61 211.8 167.7 251.5
98 63.6 51.1 76.7





#19

Isopropyl Alcohol

Concen: 10.802 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

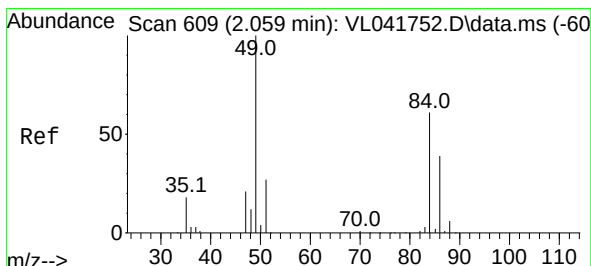
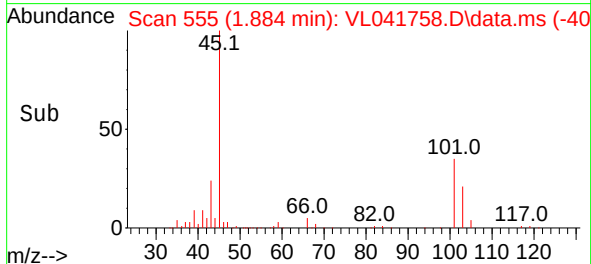
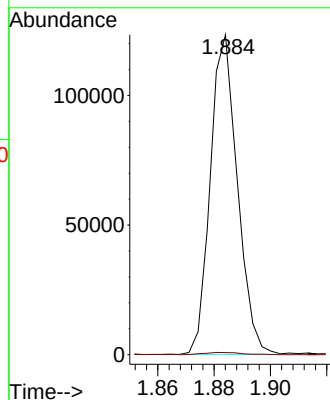
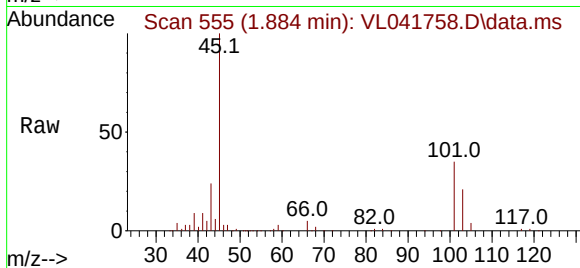
VSTDIC015

Tgt Ion: 45 Resp: 82211

Ion Ratio Lower Upper

45 100

58 42.5 33.3 49.9



#20

Methylene Chloride

Concen: 13.371 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion: 84 Resp: 48356

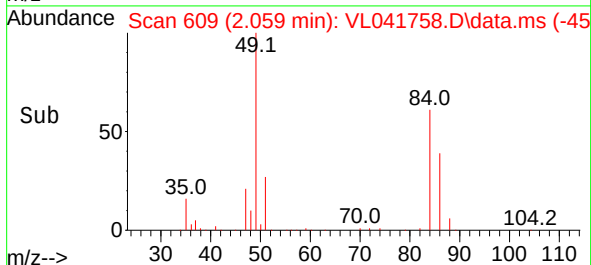
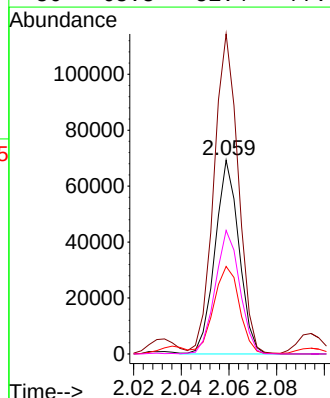
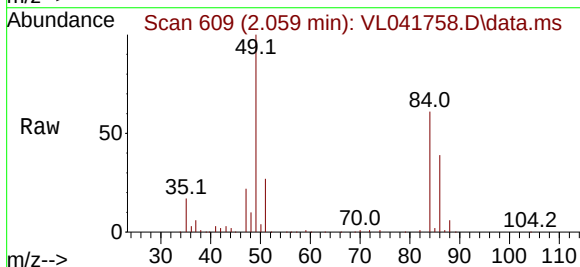
Ion Ratio Lower Upper

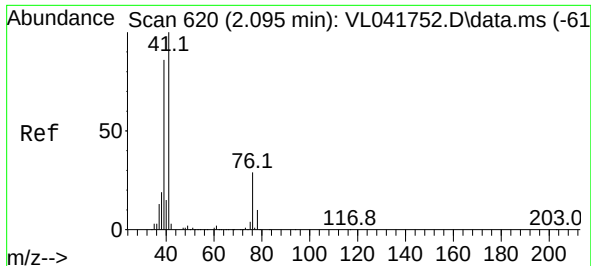
84 100

49 164.9 132.6 198.8

51 44.9 37.6 56.4

86 63.8 51.4 77.0





#21

Allyl Chloride

Concen: 14.760 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

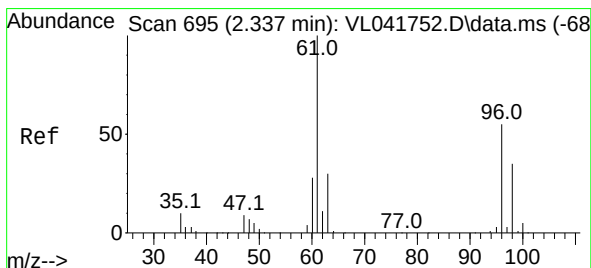
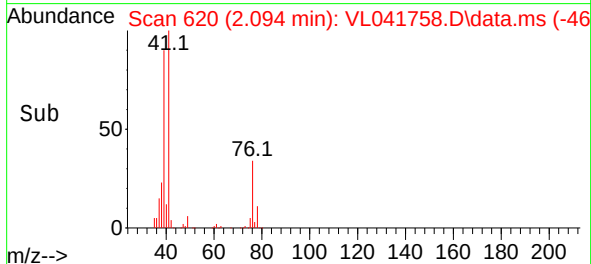
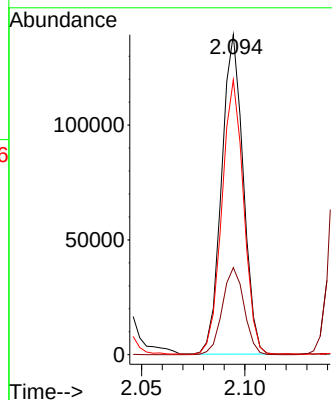
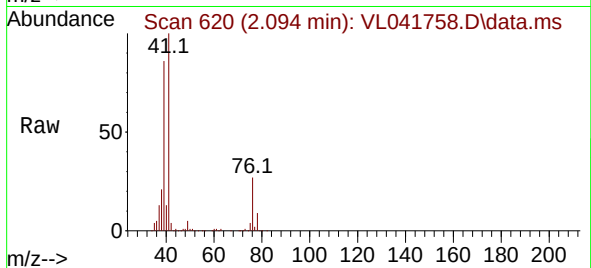
Tgt Ion: 41 Resp: 101528

Ion Ratio Lower Upper

41 100

76 27.3 22.3 33.5

39 86.2 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 14.461 ppbv

RT: 2.337 min Scan# 695

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

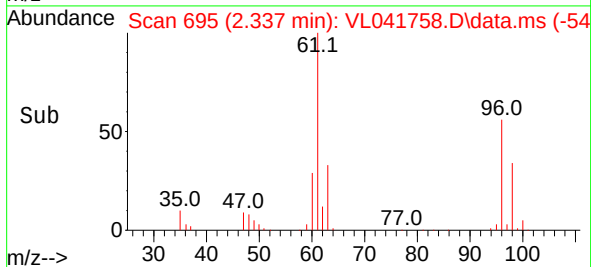
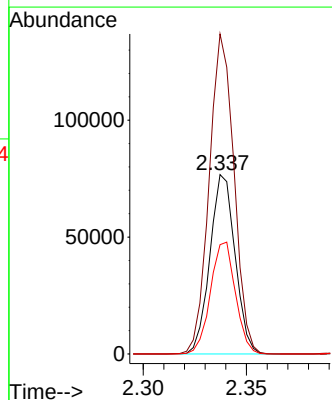
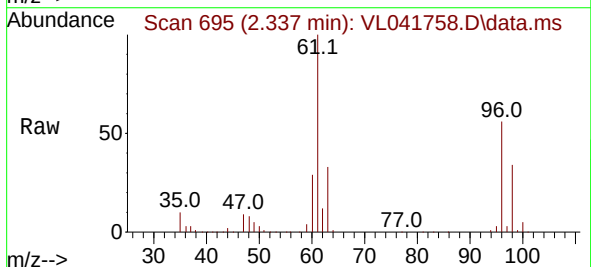
Tgt Ion: 96 Resp: 65029

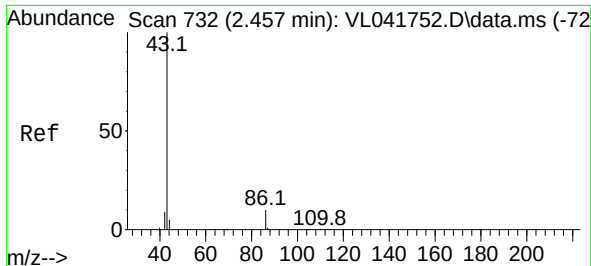
Ion Ratio Lower Upper

96 100

61 178.4 146.3 219.5

98 60.9 50.8 76.2

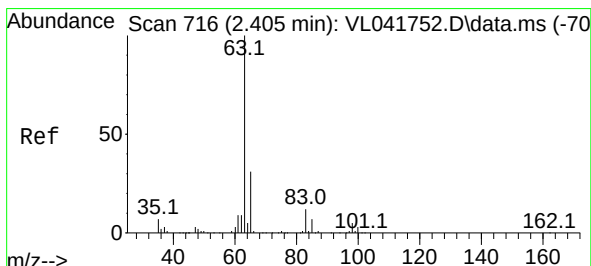
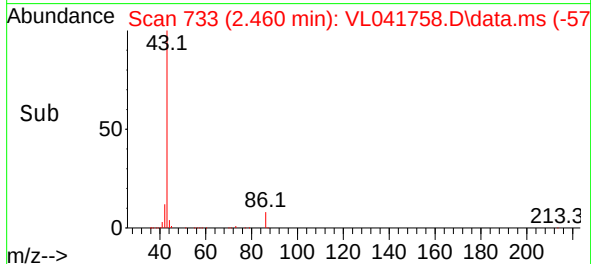
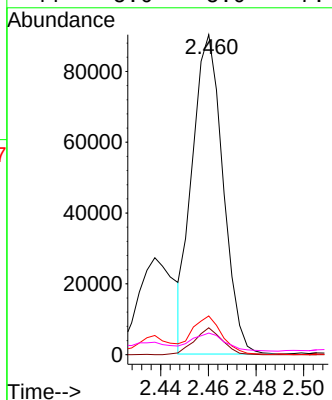
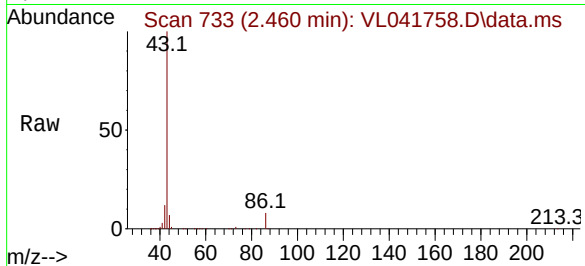




#23
 Vinyl Acetate
 Concen: 14.661 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

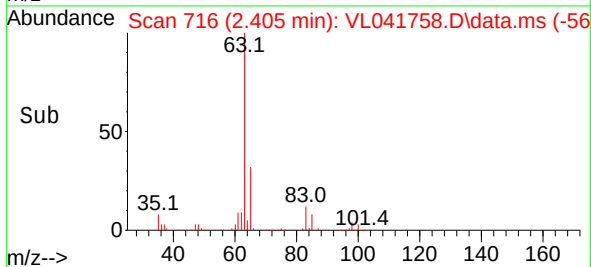
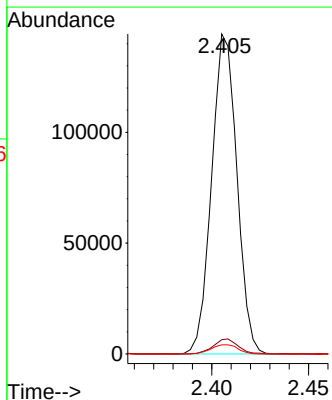
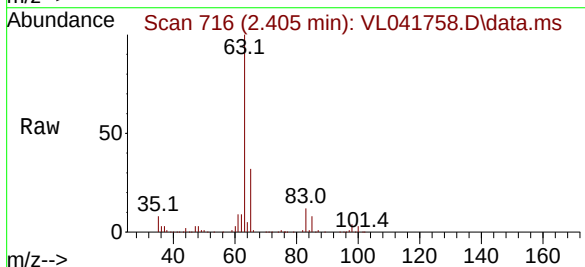
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

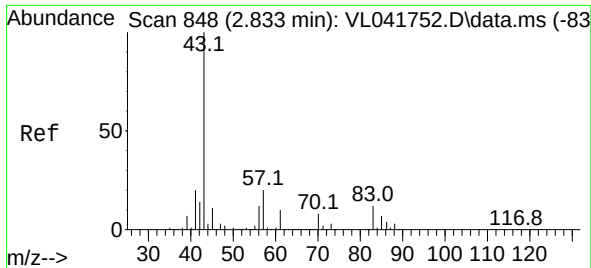
Tgt Ion:	43	Resp:	80795
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.6	10.0
42	11.8	8.2	12.2
44	5.6	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 14.394 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Tgt Ion:	63	Resp:	131030
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.8	1.4	4.2

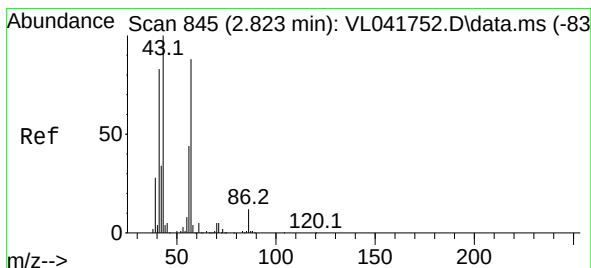
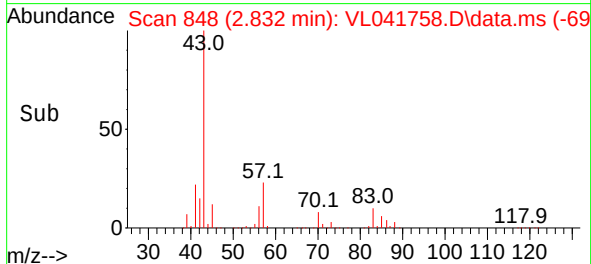
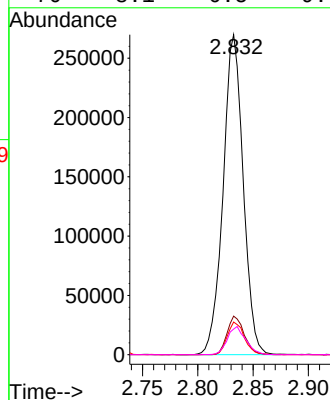
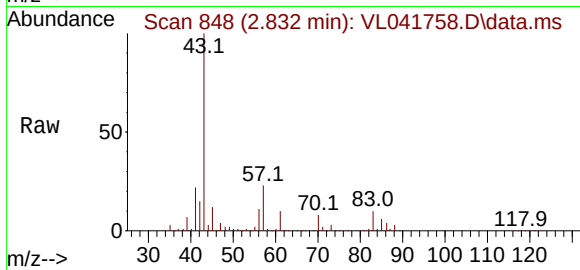




#25
Ethyl Acetate
Concen: 14.402 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

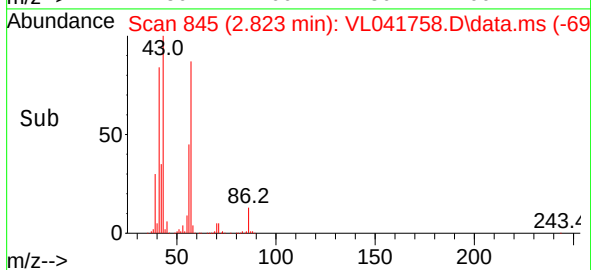
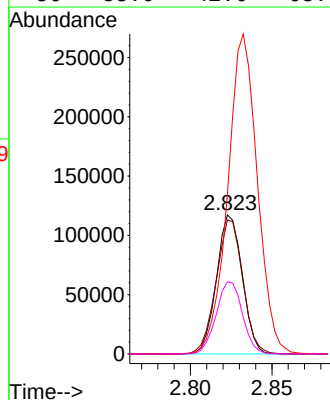
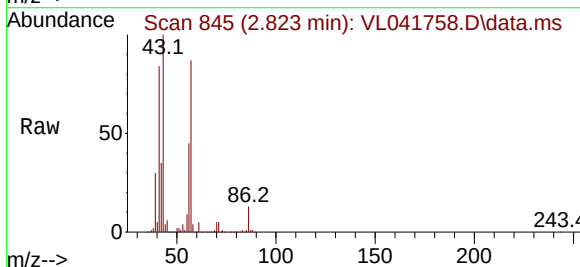
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

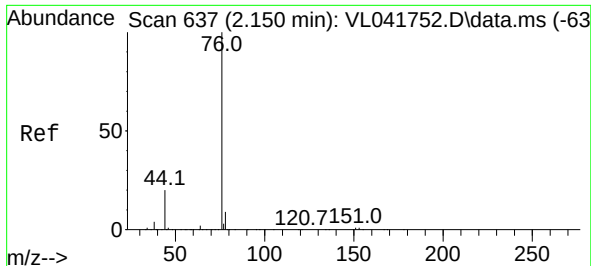
Tgt Ion:	43	Resp:	341429
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.1	12.1
61	8.7	7.0	10.6
70	8.1	6.5	9.7



#26
Hexane
Concen: 14.369 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:	57	Resp:	128657
Ion	Ratio	Lower	Upper
57	100		
41	100.1	79.6	119.4
43	265.4	211.0	316.6
56	53.0	42.6	63.8

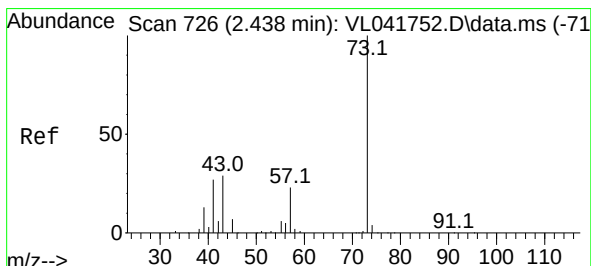
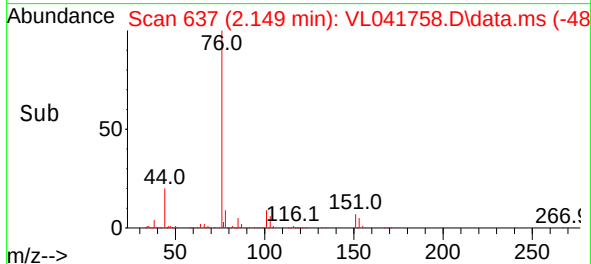
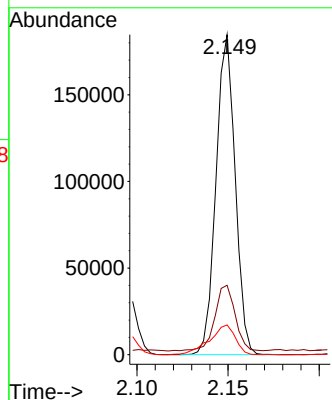
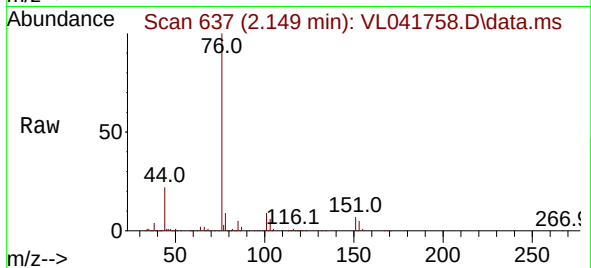




#27
Carbon Disulfide
Concen: 16.726 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

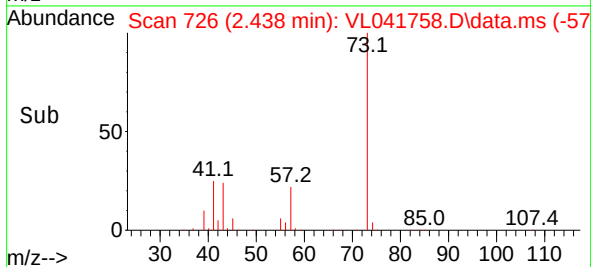
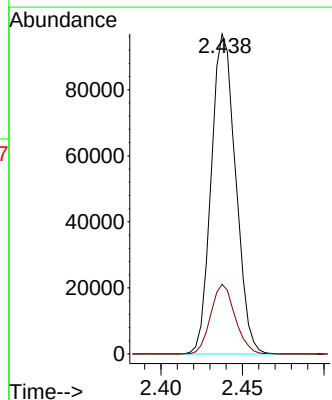
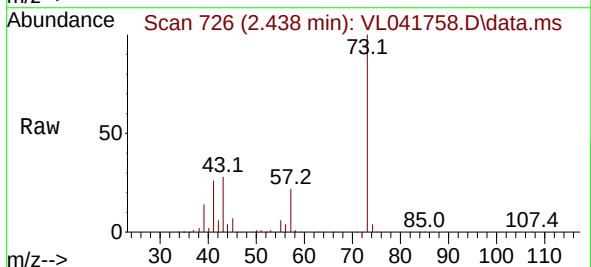
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

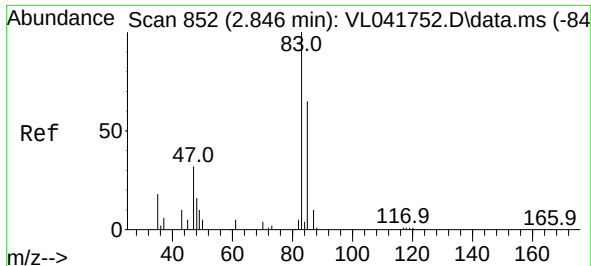
Tgt Ion: 76 Resp: 134963
Ion Ratio Lower Upper
76 100
44 22.4 17.6 26.4
78 12.5 10.2 15.4



#28
Methyl tert-Butyl Ether
Concen: 13.871 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 73 Resp: 100758
Ion Ratio Lower Upper
73 100
57 21.8 17.6 26.4





#29

Chloroform

Concen: 14.489 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

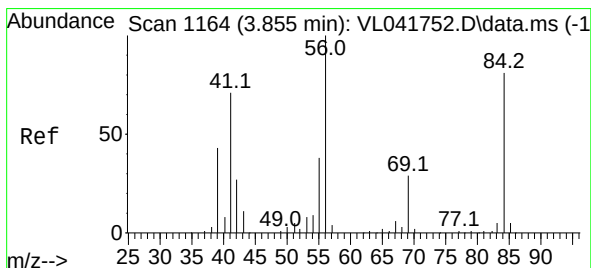
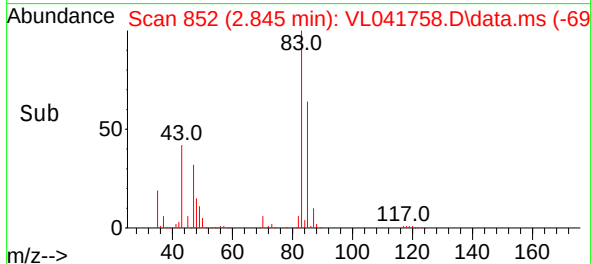
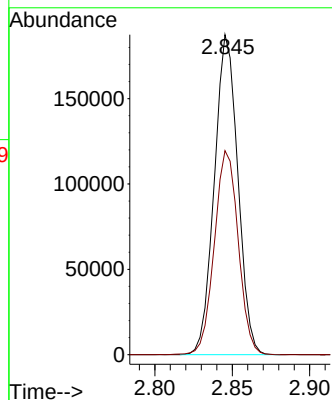
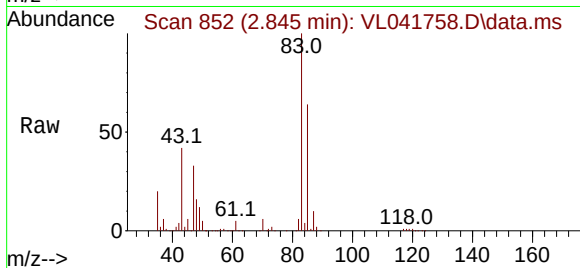
VSTDIC015

Tgt Ion: 83 Resp: 197713

Ion Ratio Lower Upper

83 100

85 63.7 51.8 77.6



#30

Cyclohexane

Concen: 14.497 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

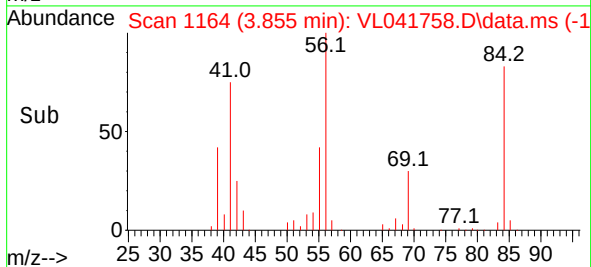
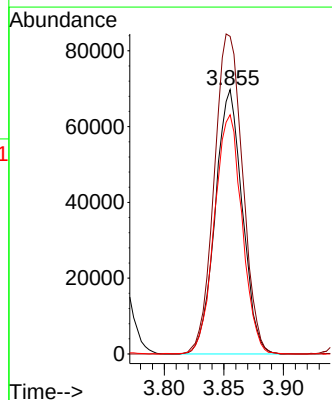
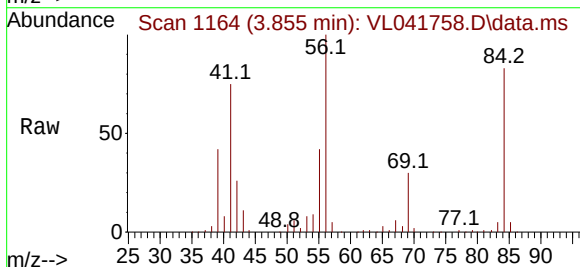
Tgt Ion: 84 Resp: 110448

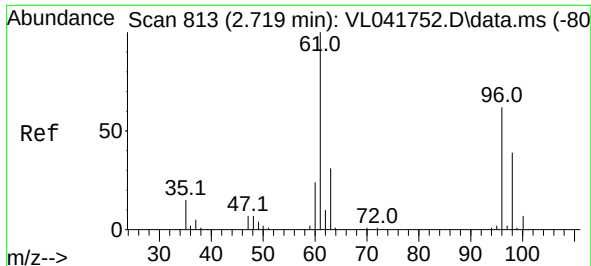
Ion Ratio Lower Upper

84 100

56 126.9 102.3 153.5

41 92.2 74.0 111.0

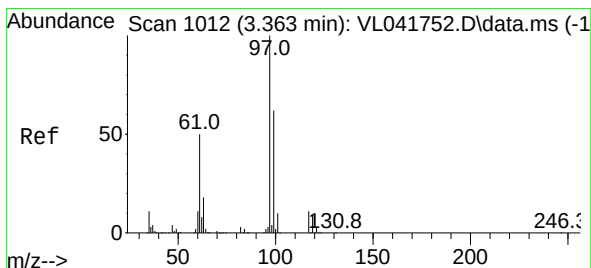
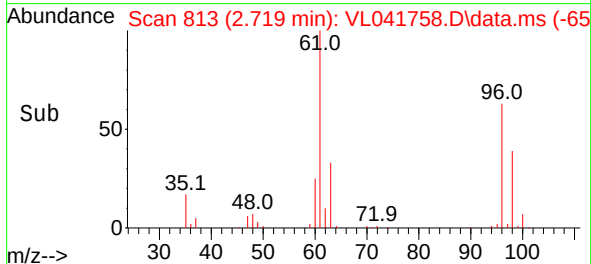
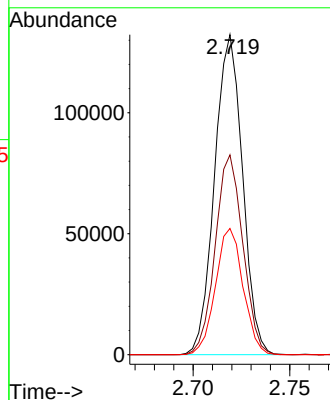
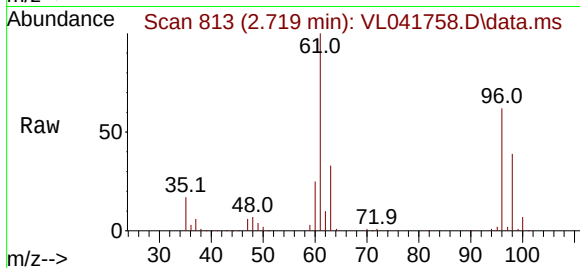




#31
 cis-1,2-Dichloroethene
 Concen: 14.355 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

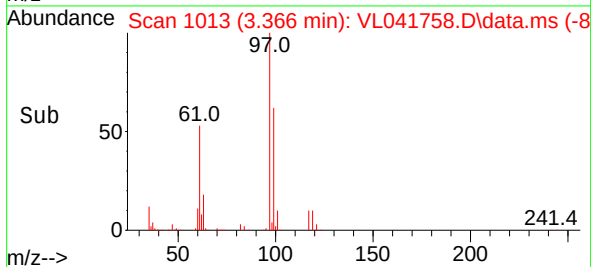
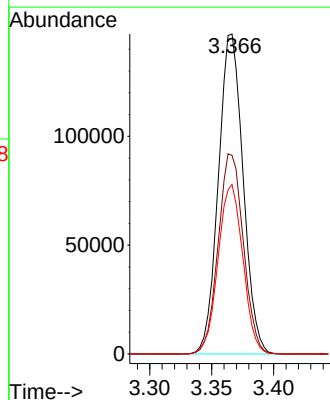
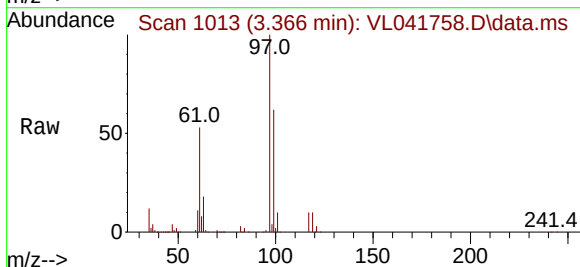
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

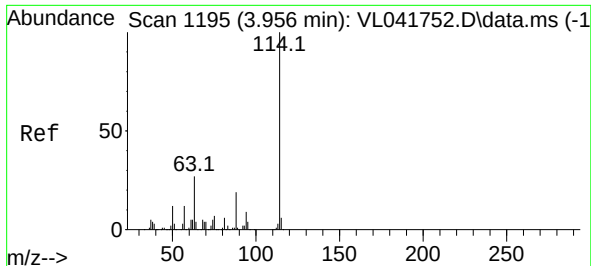
Tgt Ion: 61 Resp: 132821
 Ion Ratio Lower Upper
 61 100
 96 62.4 49.7 74.5
 98 39.4 30.8 46.2



#32
 1,1,1-Trichloroethane
 Concen: 15.055 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Tgt Ion: 97 Resp: 204468
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.0 76.4
 61 53.1 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

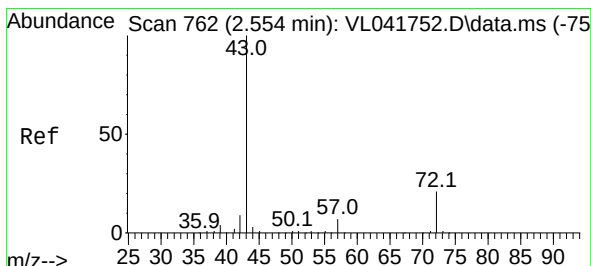
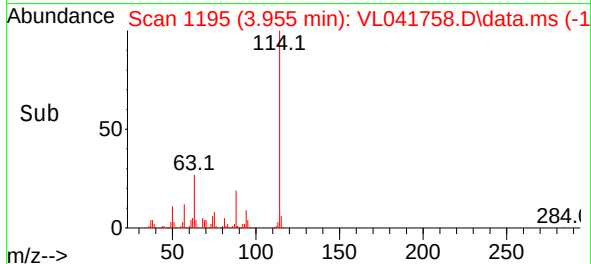
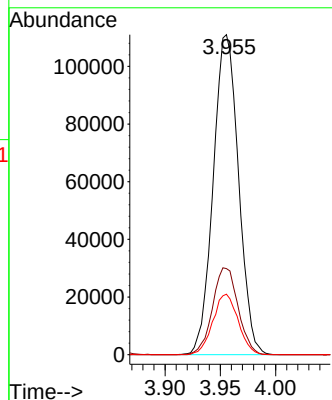
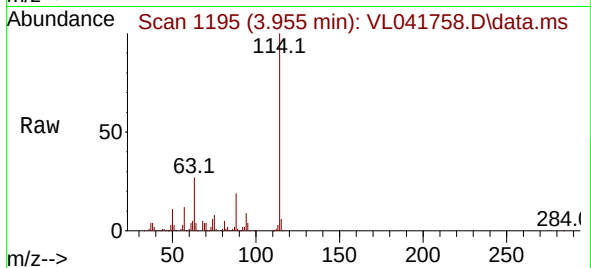
Tgt Ion:114 Resp: 176856

Ion Ratio Lower Upper

114 100

63 27.5 21.8 32.8

88 18.9 14.8 22.2



#34

2-Butanone

Concen: 13.736 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL041758.D

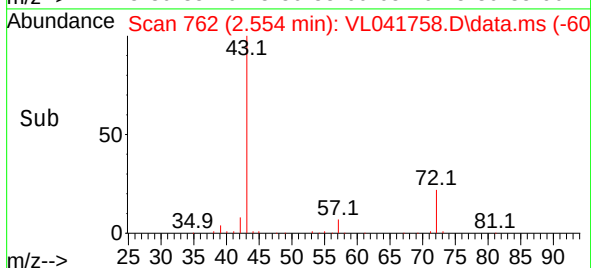
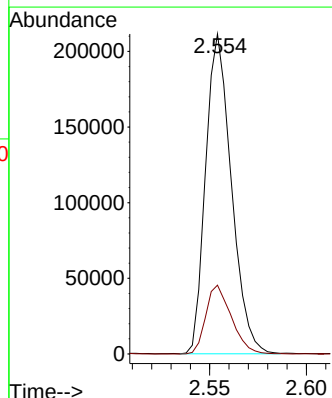
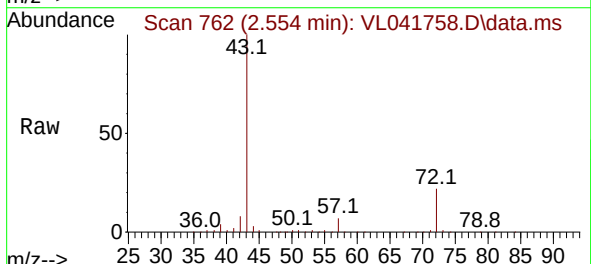
Acq: 16 Dec 2024 16:41

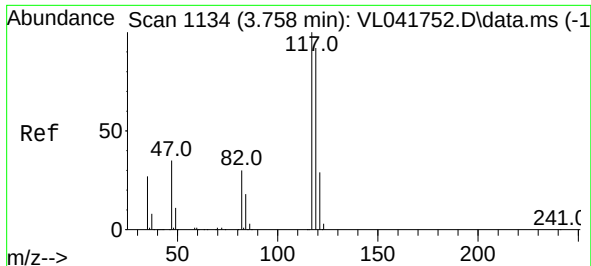
Tgt Ion: 43 Resp: 195439

Ion Ratio Lower Upper

43 100

72 21.4 16.8 25.2





#35

Carbon Tetrachloride

Concen: 16.428 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

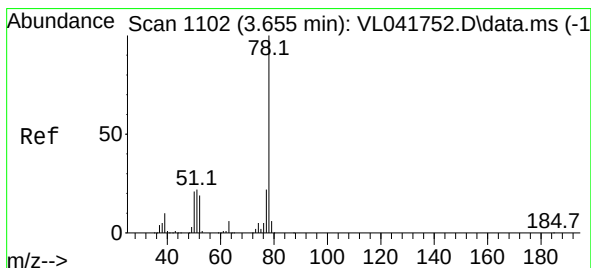
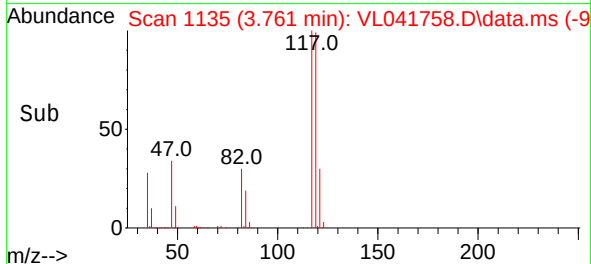
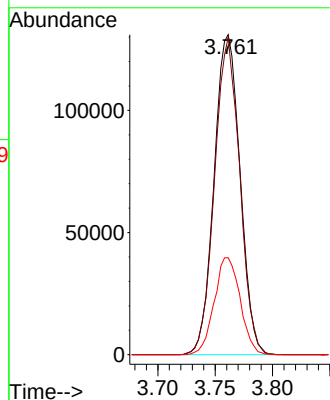
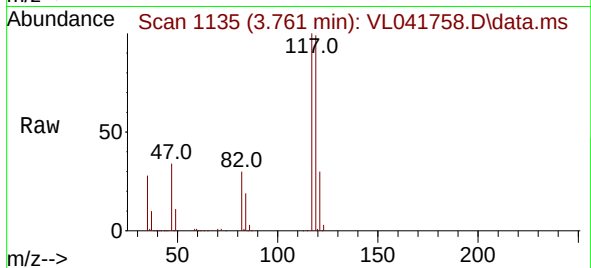
Tgt Ion:117 Resp: 206252

Ion Ratio Lower Upper

117 100

119 99.2 73.7 110.5

121 30.3 23.0 34.4



#36

Benzene

Concen: 14.192 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

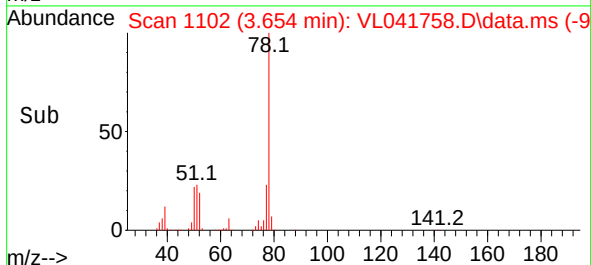
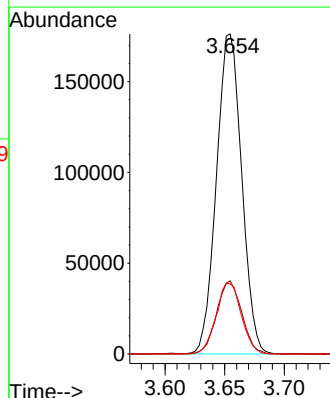
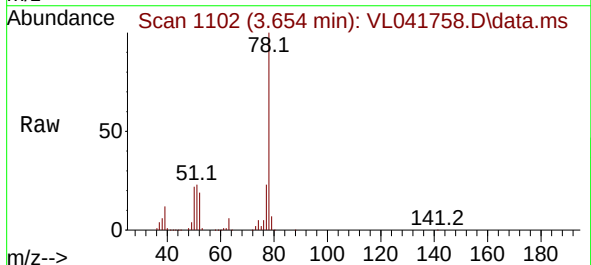
Tgt Ion: 78 Resp: 259630

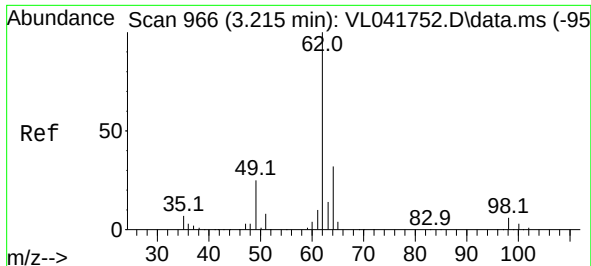
Ion Ratio Lower Upper

78 100

77 22.8 17.8 26.6

50 21.9 17.2 25.8

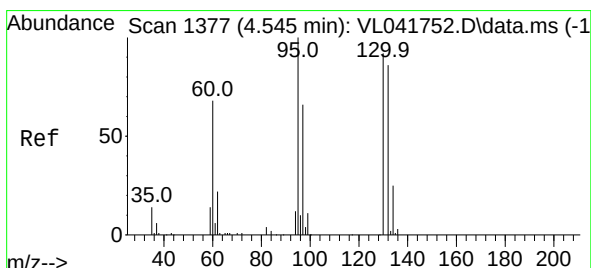
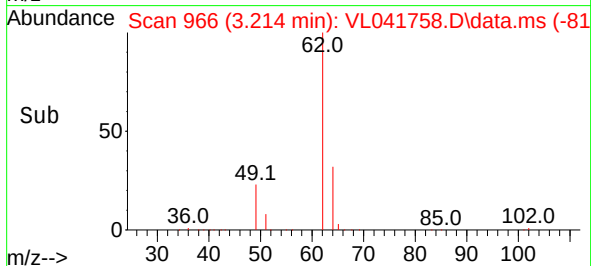
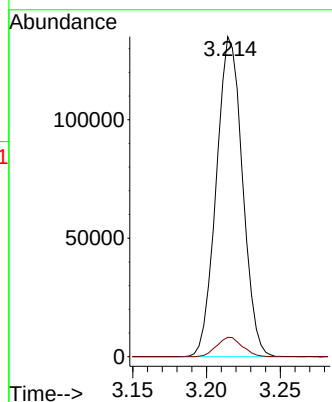
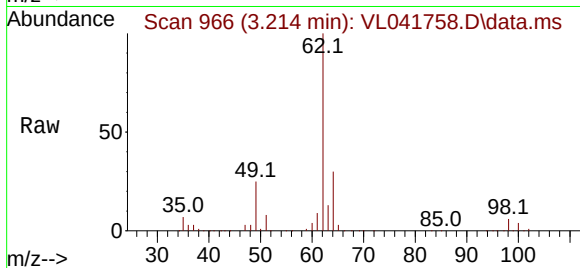




#37
1,2-Dichloroethane
Concen: 14.633 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

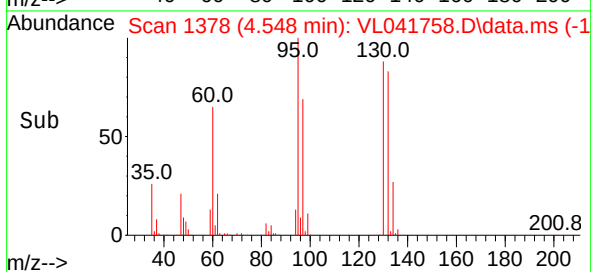
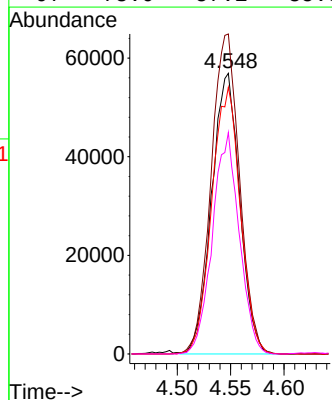
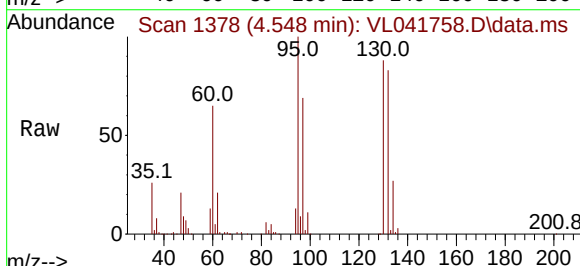
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

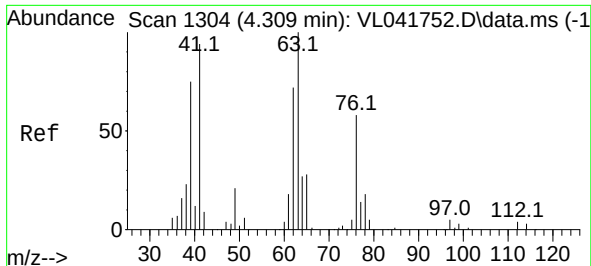
Tgt Ion: 62 Resp: 166576
Ion Ratio Lower Upper
62 100
98 5.9 4.7 7.1



#38
Trichloroethene
Concen: 13.525 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:130 Resp: 104184
Ion Ratio Lower Upper
130 100
95 114.0 87.0 130.6
132 95.0 75.0 112.6
97 78.9 57.2 85.8





#39

1,2-Dichloropropane

Concen: 14.150 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

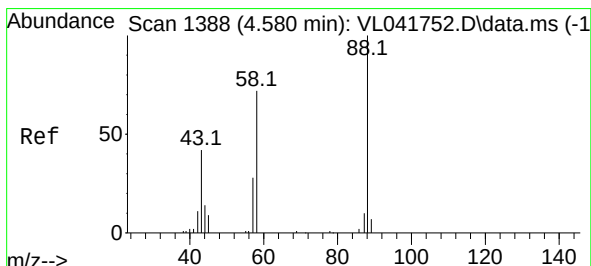
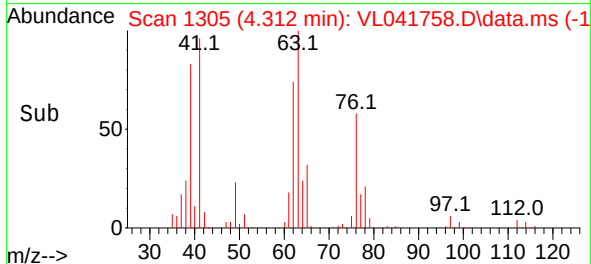
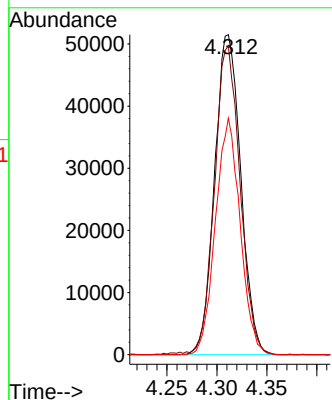
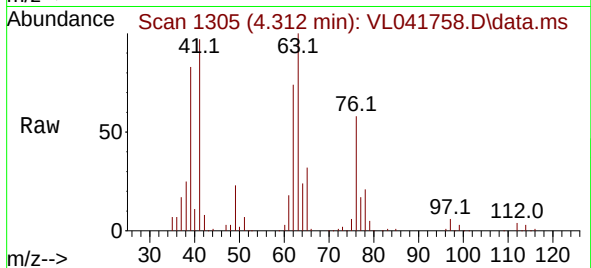
Tgt Ion: 63 Resp: 93624

Ion Ratio Lower Upper

63 100

41 96.6 75.3 112.9

62 73.9 57.3 85.9



#40

1,4-Dioxane

Concen: 13.730 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion: 88 Resp: 44377

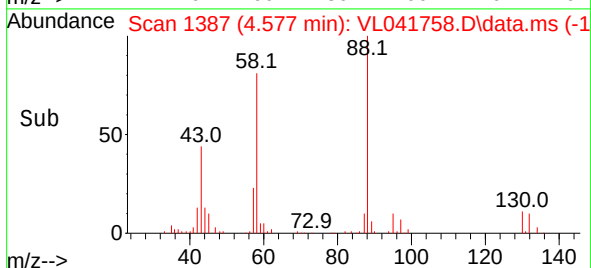
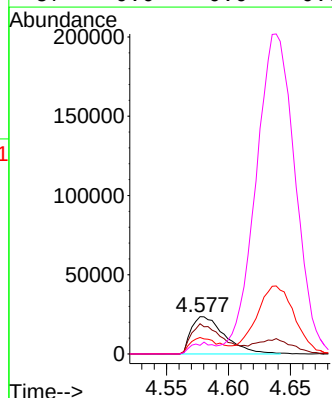
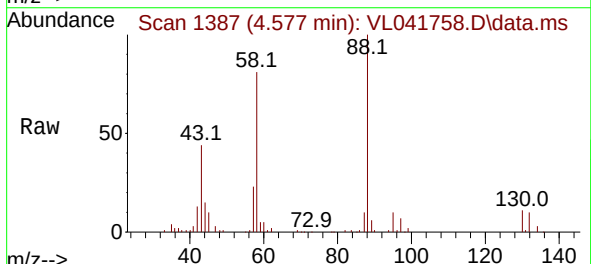
Ion Ratio Lower Upper

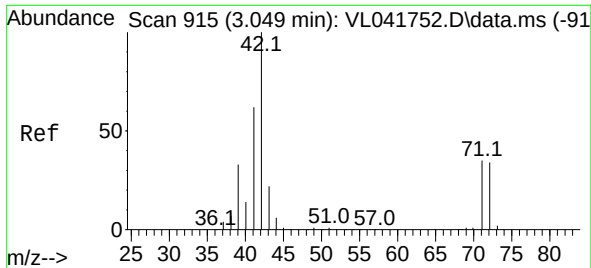
88 100

58 77.8 61.0 91.6

43 42.4 29.4 44.0

57 0.0 0.0 0.0

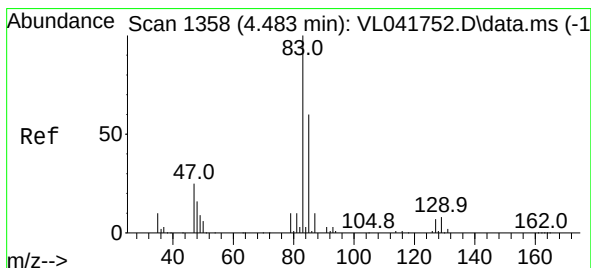
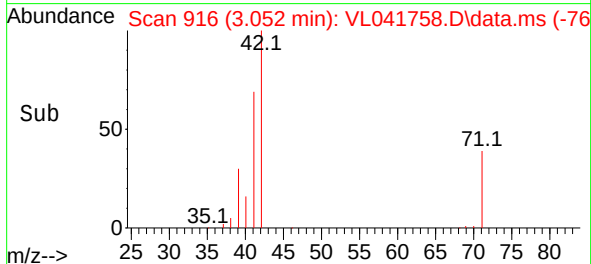
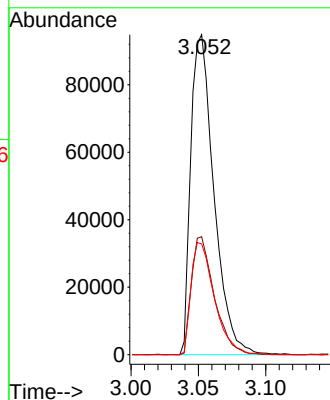
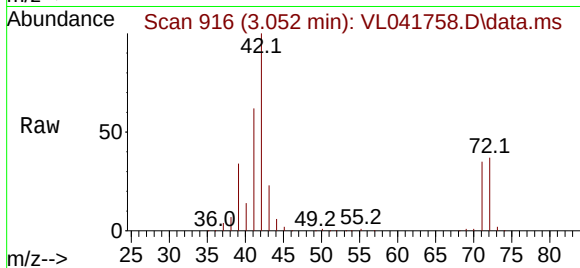




#41
Tetrahydrofuran
Concen: 14.254 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

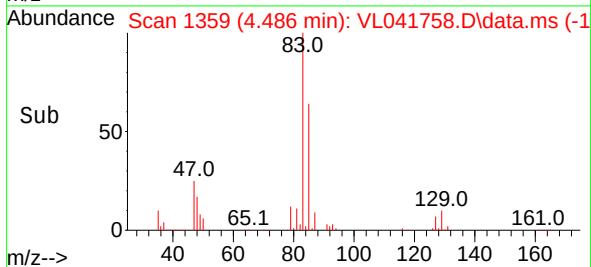
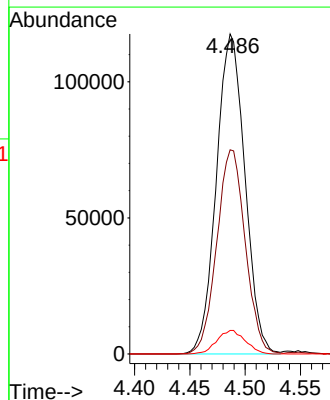
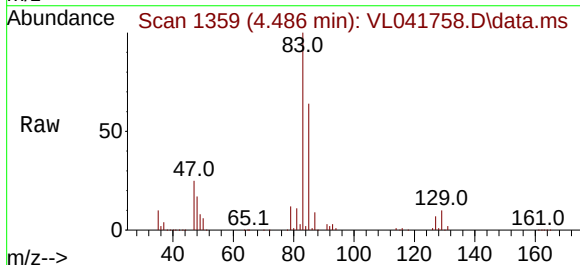
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

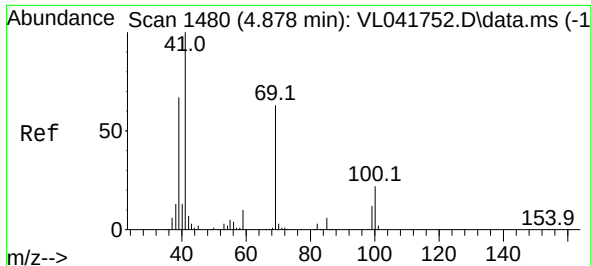
Tgt Ion: 42 Resp: 113618
Ion Ratio Lower Upper
42 100
72 36.4 29.1 43.7
71 35.3 28.4 42.6



#42
Bromodichloromethane
Concen: 16.123 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 83 Resp: 211145
Ion Ratio Lower Upper
83 100
85 63.7 48.0 72.0
127 7.3 5.8 8.8

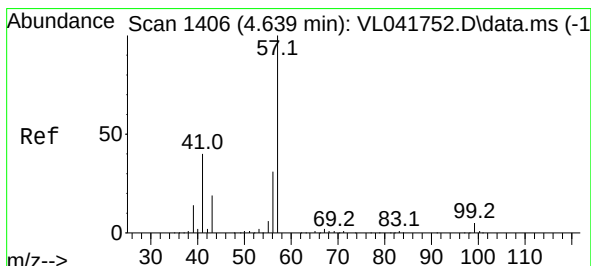
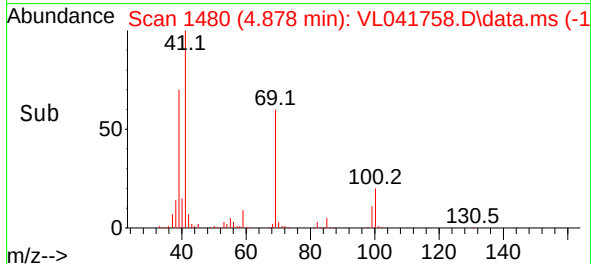
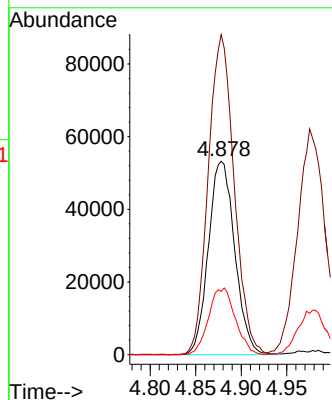
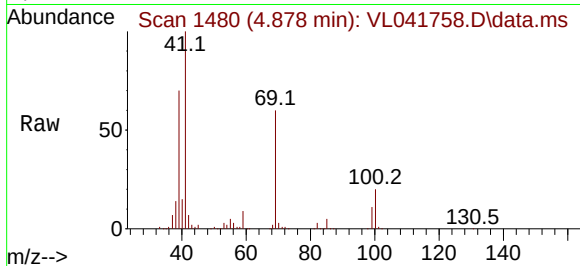




#43
Methyl Methacrylate
Concen: 15.374 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

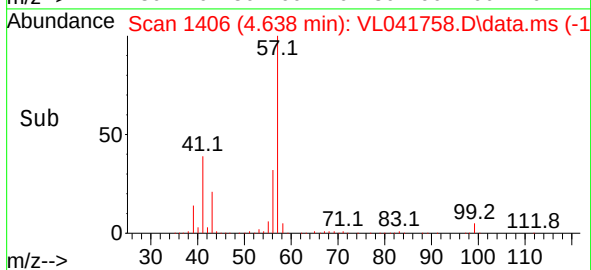
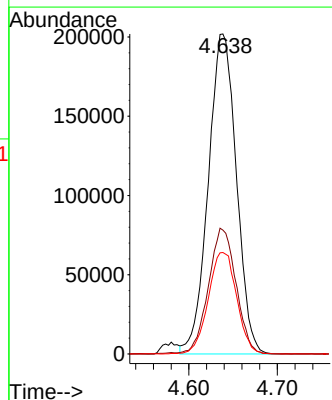
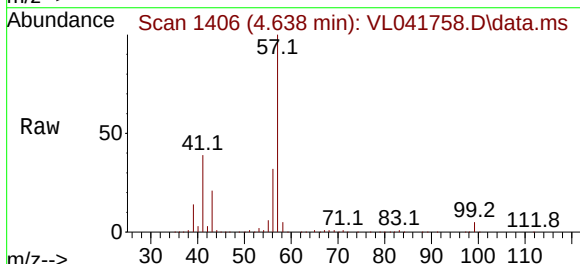
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

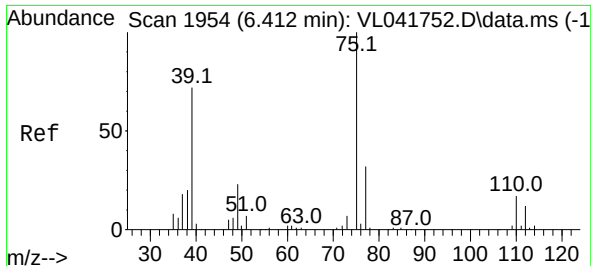
Tgt Ion: 69 Resp: 107165
Ion Ratio Lower Upper
69 100
41 162.6 130.3 195.5
100 35.0 28.3 42.5



#44
2,2,4-Trimethylpentane
Concen: 14.274 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 57 Resp: 445947
Ion Ratio Lower Upper
57 100
41 38.8 30.7 46.1
56 32.1 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 15.973 ppbv

RT: 6.409 min Scan# 1953

Delta R.T. -0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_1

ClientSampleId :

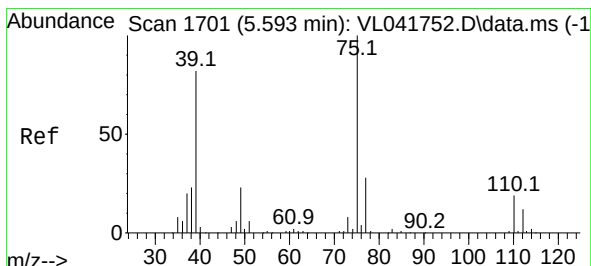
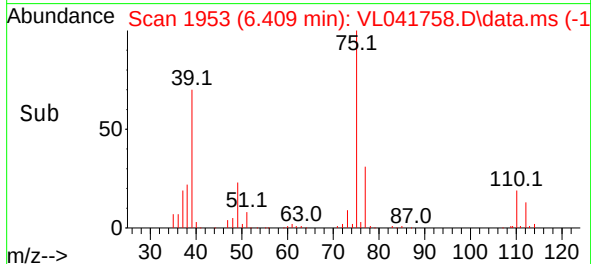
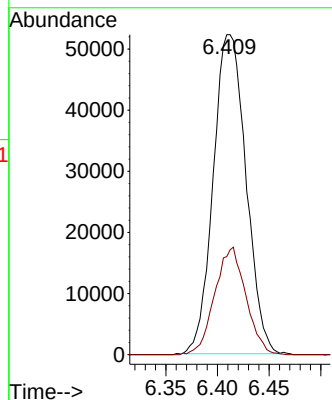
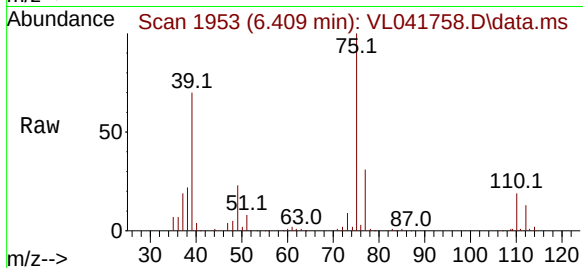
VSTDIC015

Tgt Ion: 75 Resp: 115159

Ion Ratio Lower Upper

75 100

77 30.6 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 15.643 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.006 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

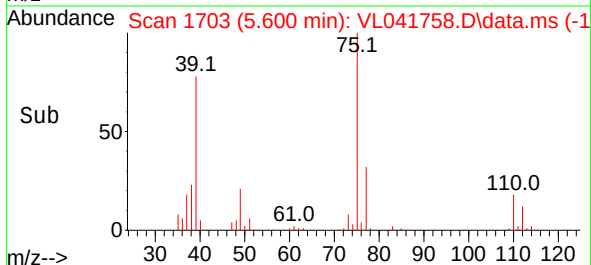
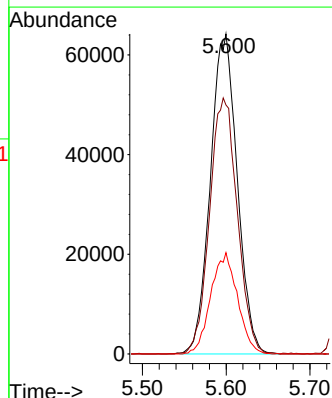
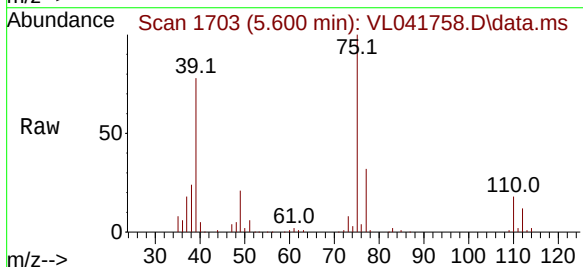
Tgt Ion: 75 Resp: 143172

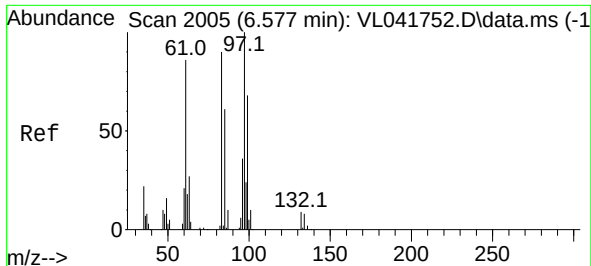
Ion Ratio Lower Upper

75 100

39 77.8 65.2 97.8

77 31.6 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 14.242 ppbv

RT: 6.580 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 98426

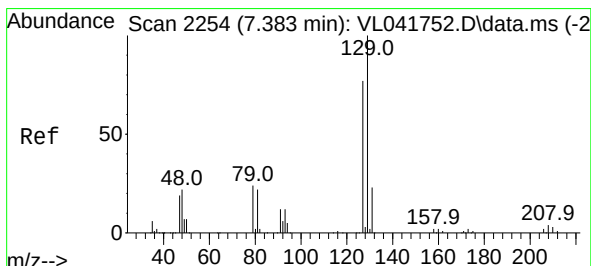
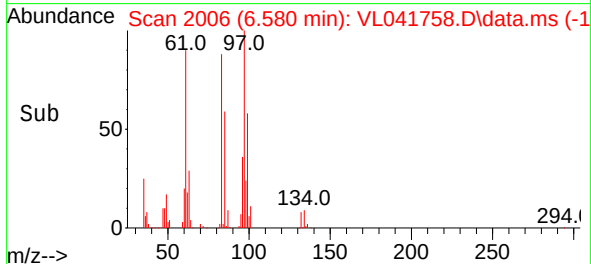
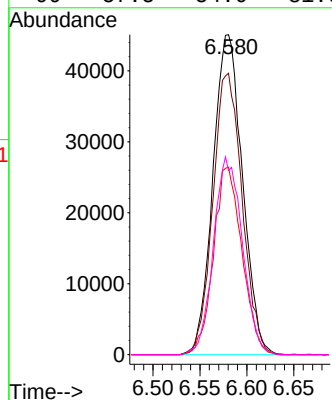
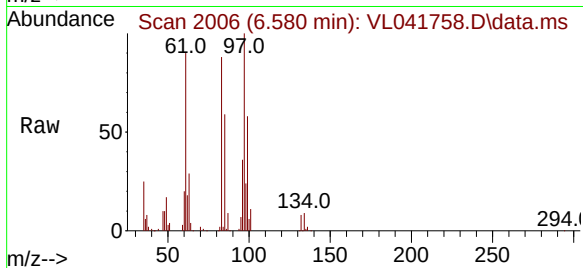
Ion Ratio Lower Upper

97 100

83 88.0 72.3 108.5

85 58.6 48.5 72.7

99 57.5 54.0 81.0



#48

Dibromochloromethane

Concen: 17.131 ppbv

RT: 7.386 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL041758.D

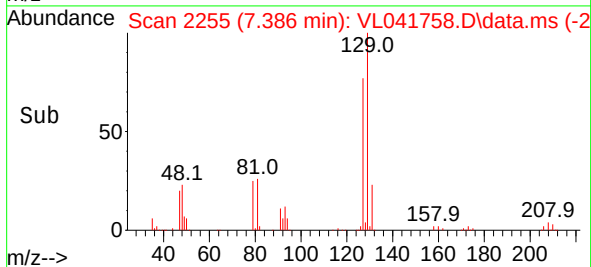
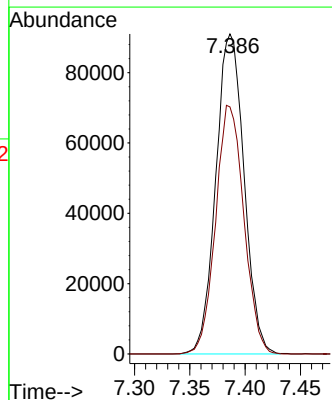
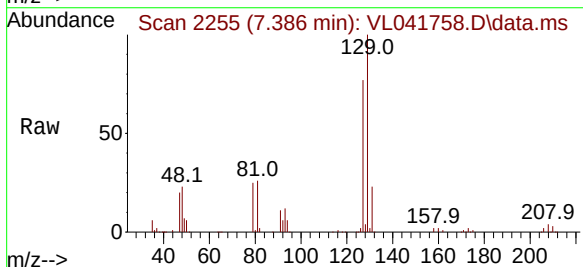
Acq: 16 Dec 2024 16:41

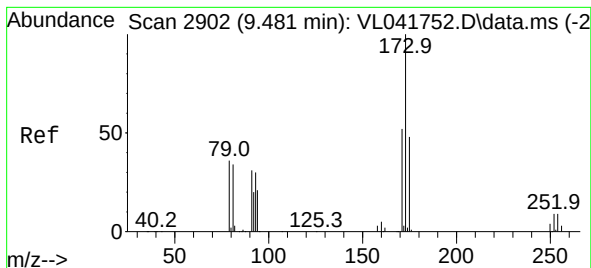
Tgt Ion: 129 Resp: 161661

Ion Ratio Lower Upper

129 100

127 77.6 38.8 116.3





#49

Bromoform

Concen: 17.838 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

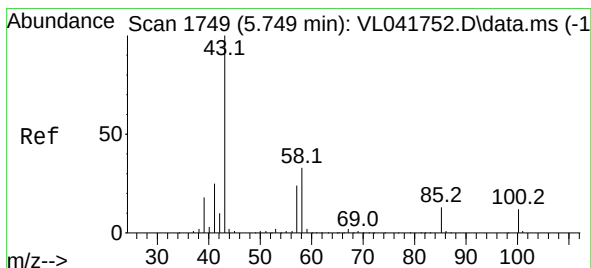
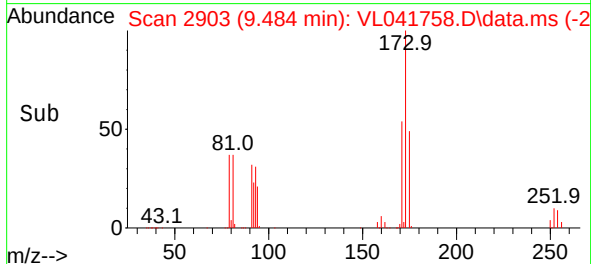
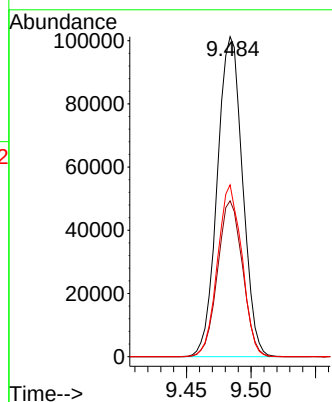
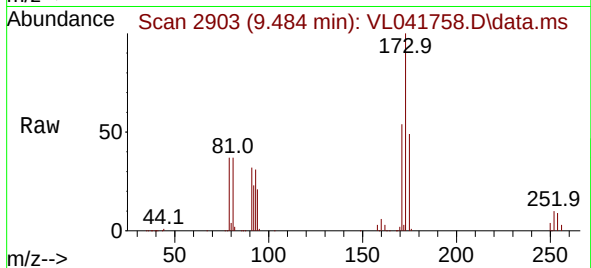
Tgt Ion:173 Resp: 137786

Ion Ratio Lower Upper

173 100

175 48.2 38.2 57.2

171 51.8 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 14.735 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VL041758.D

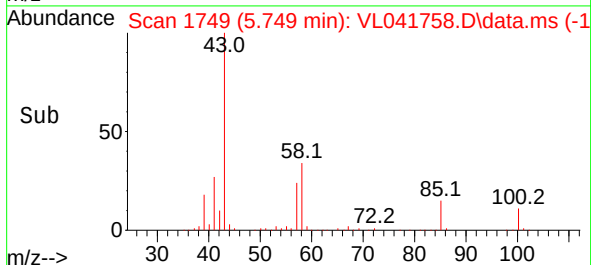
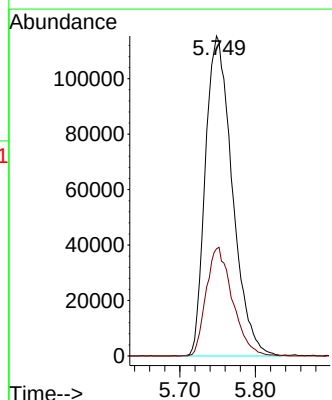
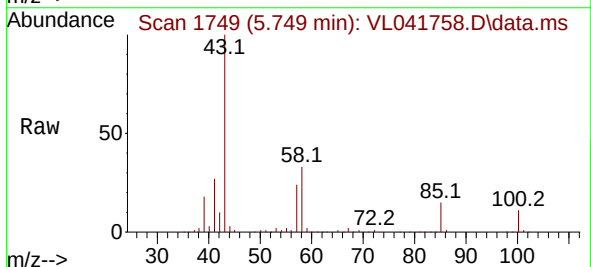
Acq: 16 Dec 2024 16:41

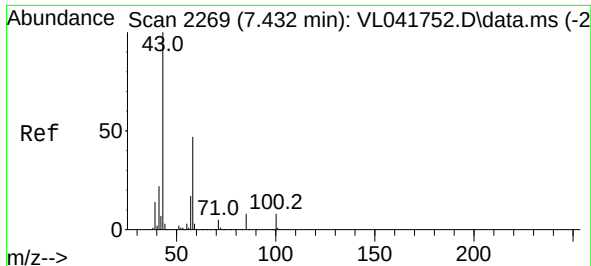
Tgt Ion: 43 Resp: 285467

Ion Ratio Lower Upper

43 100

58 33.2 26.8 40.2

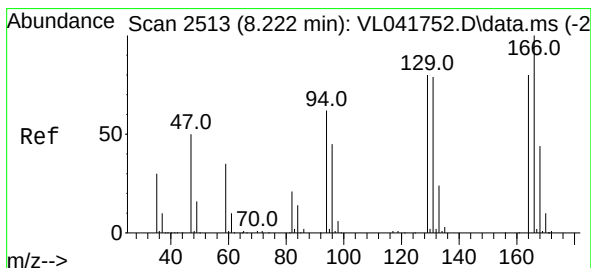
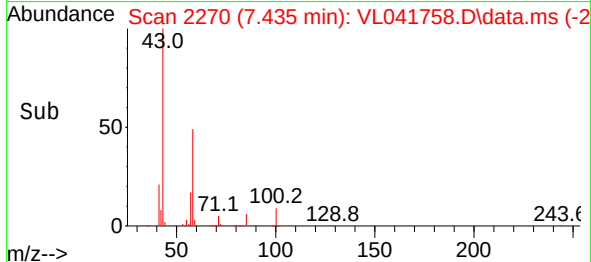
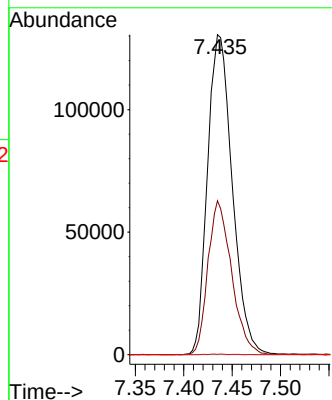
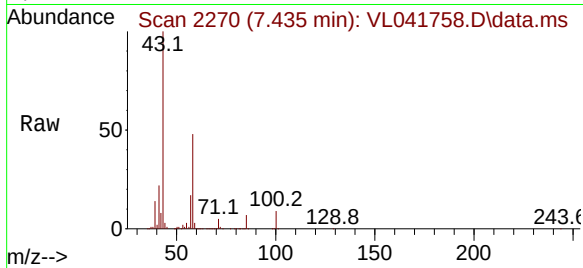




#51
2-Hexanone
Concen: 14.798 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

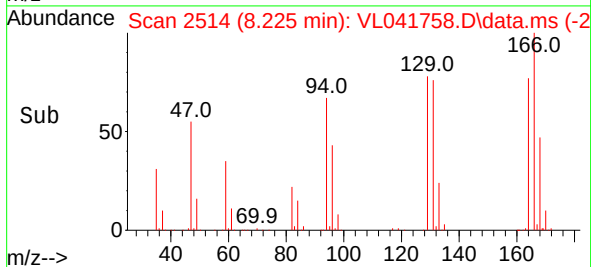
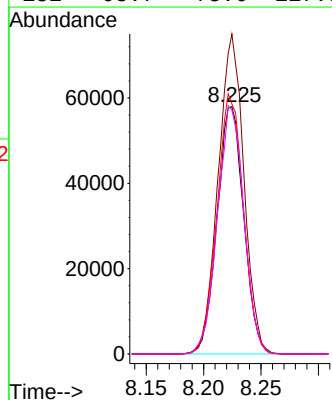
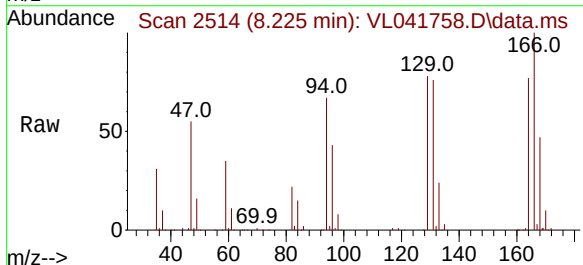
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

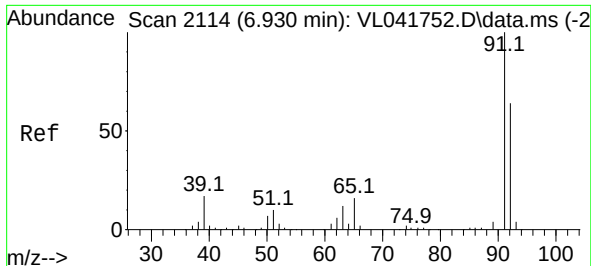
Tgt Ion: 43 Resp: 232363
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.675 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 164 Resp: 93120
Ion Ratio Lower Upper
164 100
166 129.3 99.8 149.6
129 101.1 79.6 119.4
131 98.7 78.6 117.8





#53

Toluene

Concen: 14.533 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

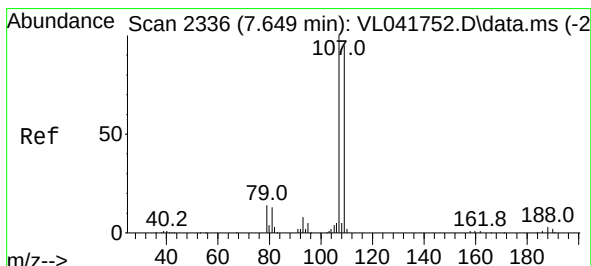
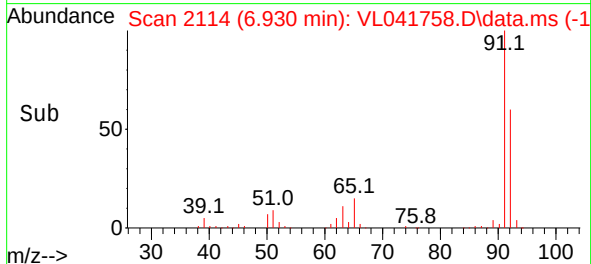
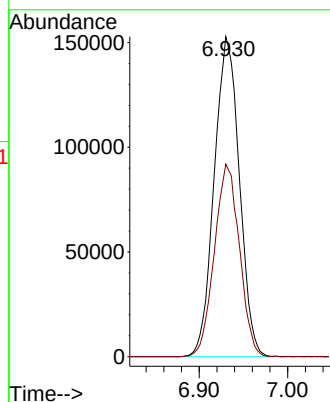
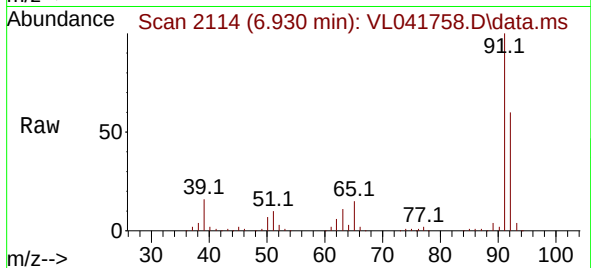
VSTDIC015

Tgt Ion: 91 Resp: 301428

Ion Ratio Lower Upper

91 100

92 59.9 47.9 71.9



#54

1,2-Dibromoethane

Concen: 14.690 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.003 min

Lab File: VL041758.D

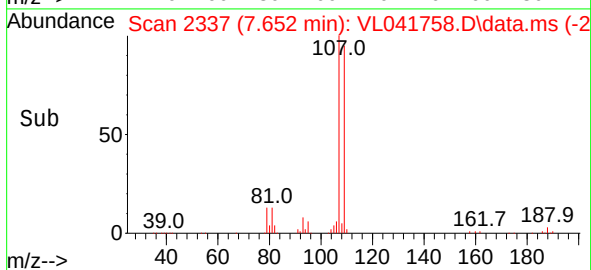
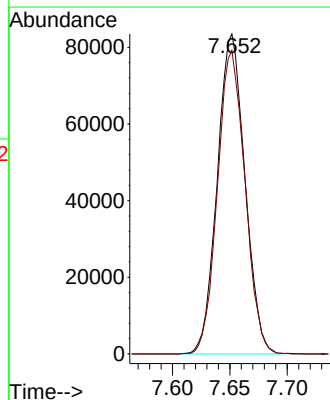
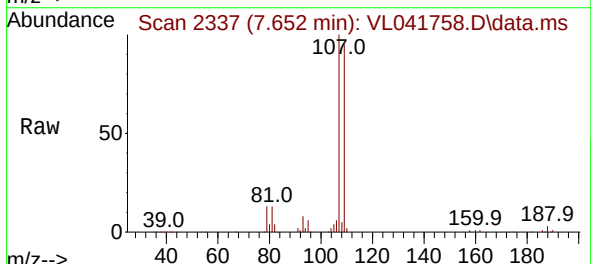
Acq: 16 Dec 2024 16:41

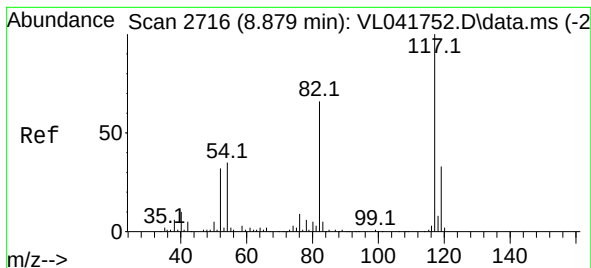
Tgt Ion:107 Resp: 139889

Ion Ratio Lower Upper

107 100

109 94.9 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

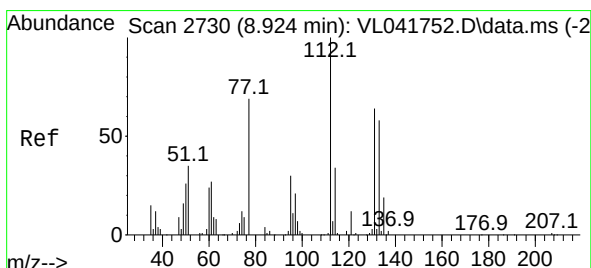
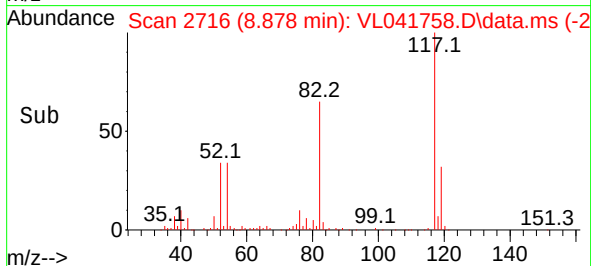
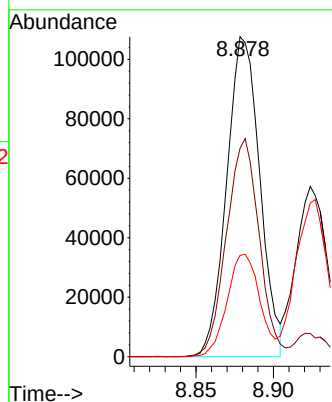
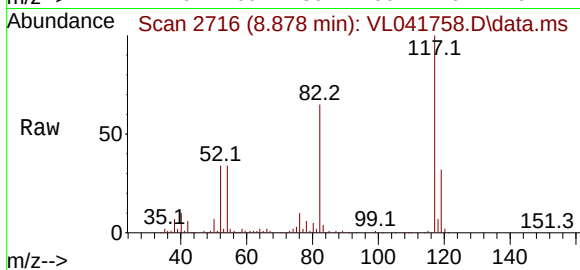
Tgt Ion:117 Resp: 160457

Ion Ratio Lower Upper

117 100

82 67.5 53.8 80.8

119 31.6 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 15.059 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

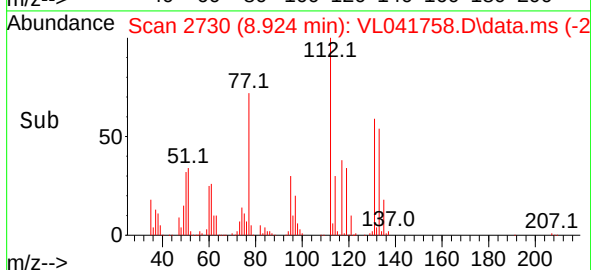
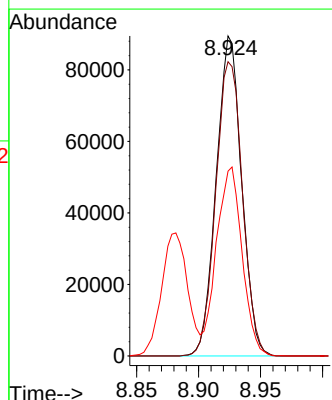
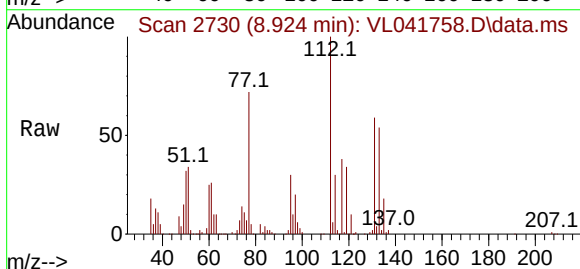
Tgt Ion:131 Resp: 128108

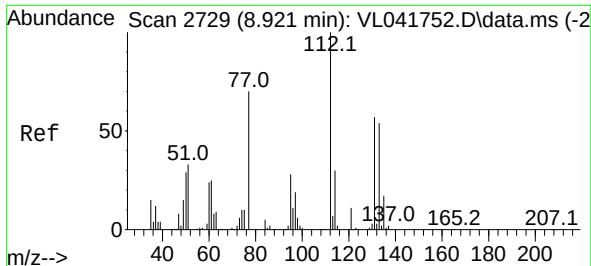
Ion Ratio Lower Upper

131 100

133 96.7 76.8 115.2

119 59.9 49.0 73.6





#57

Chlorobenzene

Concen: 13.869 ppbv

RT: 8.924 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

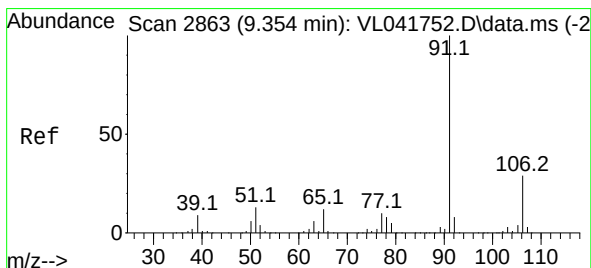
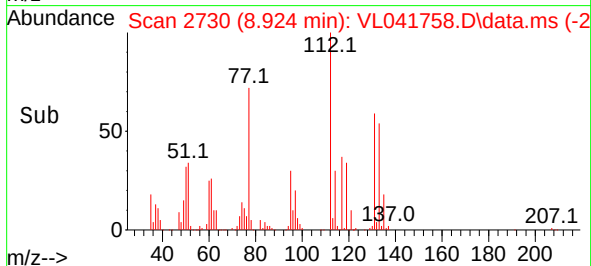
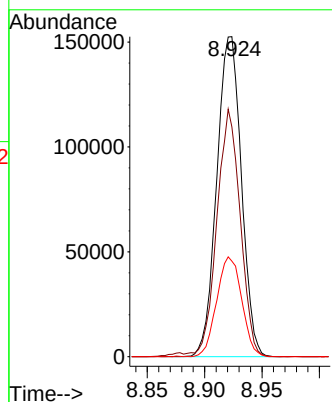
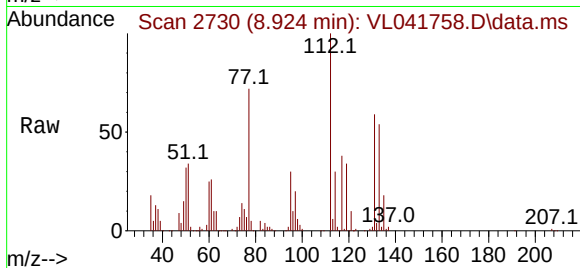
Tgt Ion:112 Resp: 227716

Ion Ratio Lower Upper

112 100

77 71.8 57.4 86.0

114 29.8 27.4 33.4



#58

Ethyl Benzene

Concen: 14.742 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.000 min

Lab File: VL041758.D

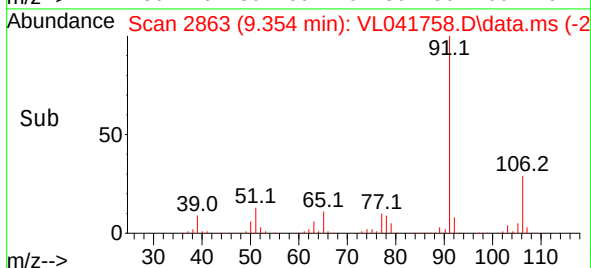
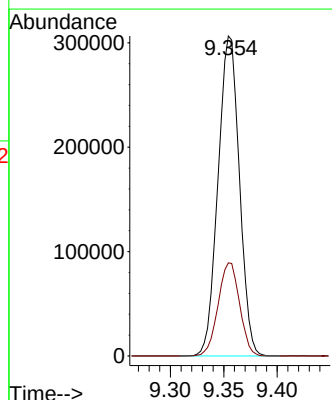
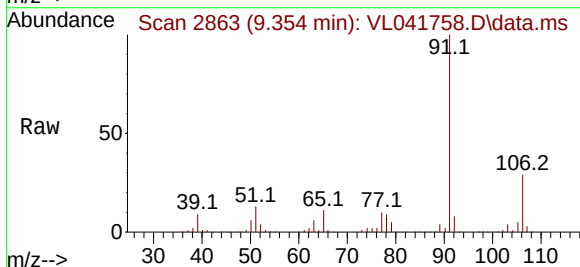
Acq: 16 Dec 2024 16:41

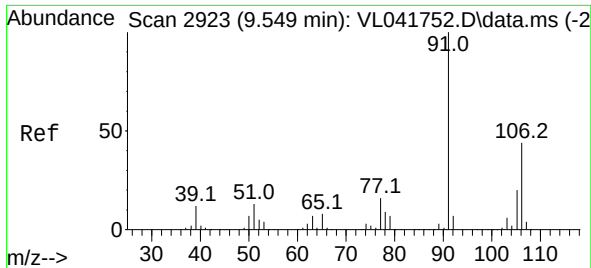
Tgt Ion: 91 Resp: 425852

Ion Ratio Lower Upper

91 100

106 29.1 23.5 35.3





#59

m/p-Xylene

Concen: 15.660 ppbv

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_1

ClientSampleId :

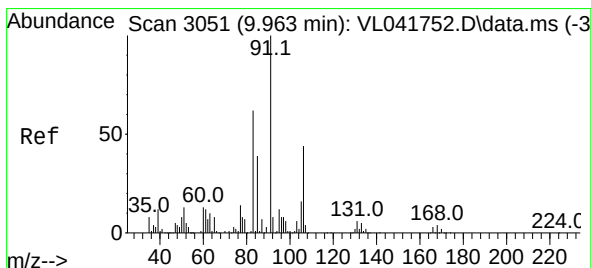
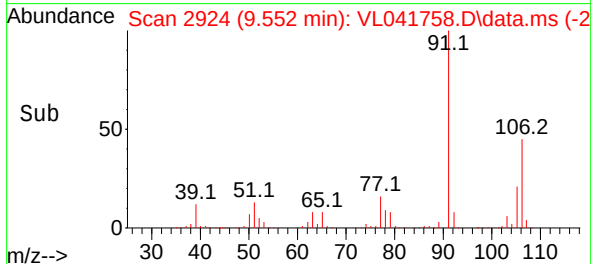
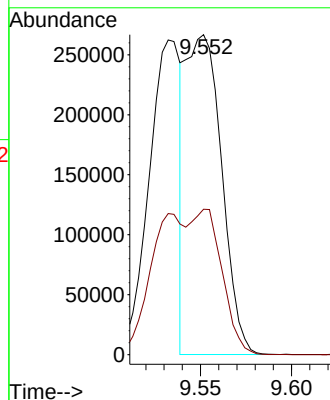
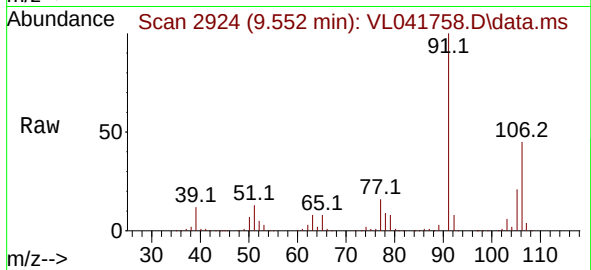
VSTDIC015

Tgt Ion: 91 Resp: 363863

Ion Ratio Lower Upper

91 100

106 83.6 0.0 0.0#



#60

o-Xylene

Concen: 14.506 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041758.D

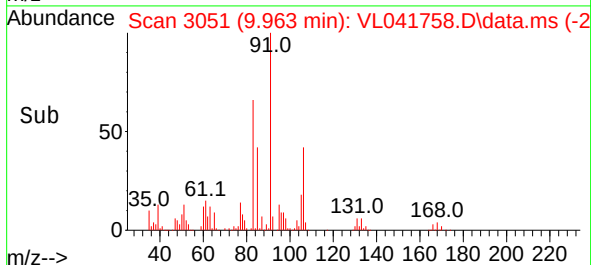
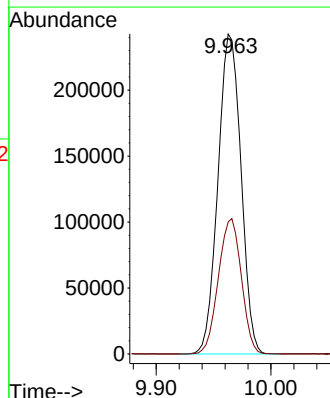
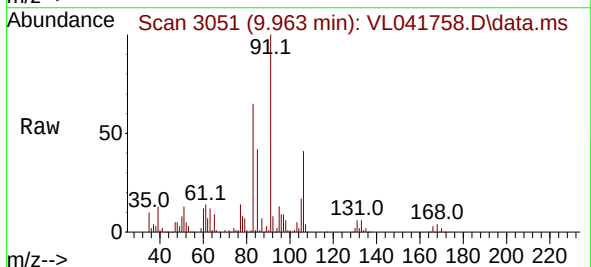
Acq: 16 Dec 2024 16:41

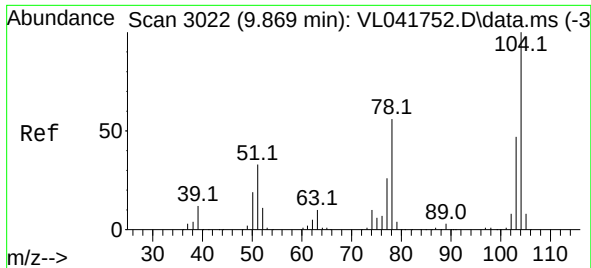
Tgt Ion: 91 Resp: 337891

Ion Ratio Lower Upper

91 100

106 42.2 21.1 63.4

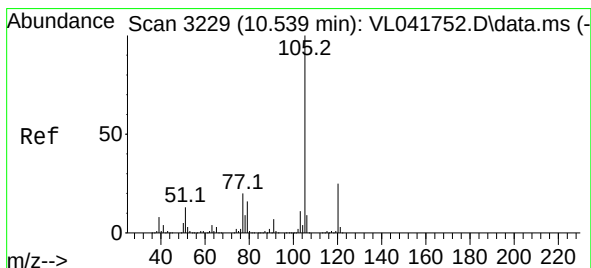
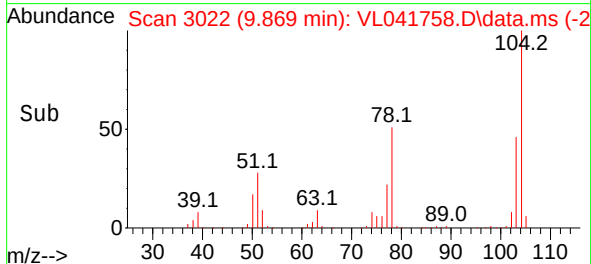
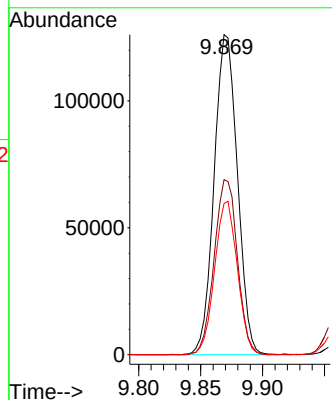
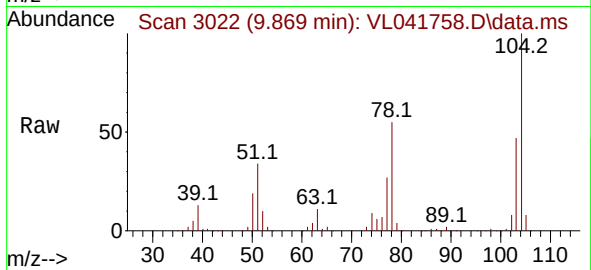




#61
Styrene
Concen: 16.415 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

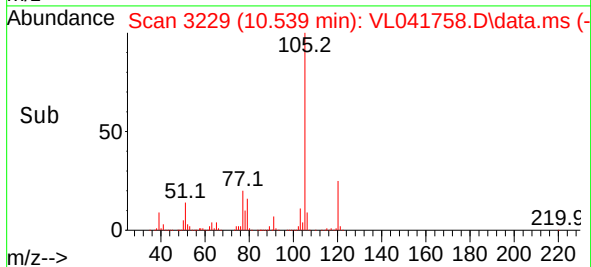
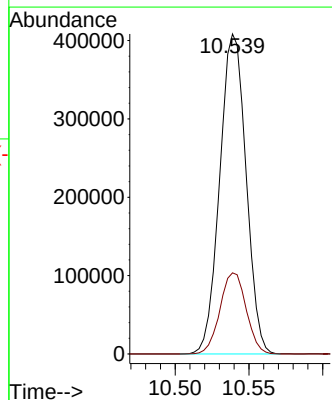
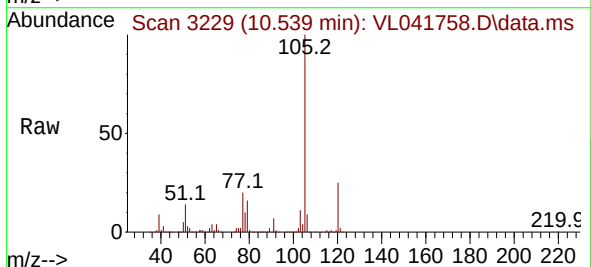
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

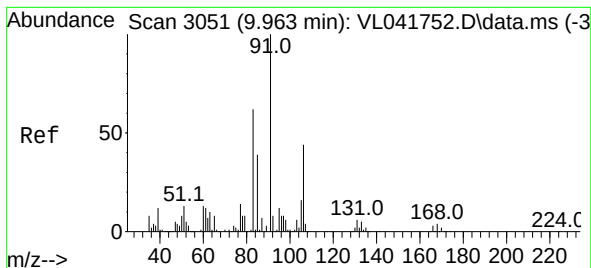
Tgt Ion:104 Resp: 165328
Ion Ratio Lower Upper
104 100
78 54.5 43.8 65.6
103 46.9 37.8 56.6



#62
Isopropylbenzene
Concen: 14.475 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 506570
Ion Ratio Lower Upper
105 100
120 25.2 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 13.790 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

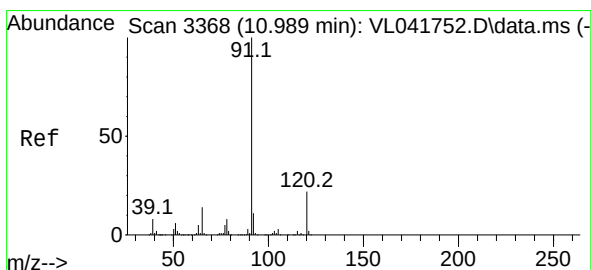
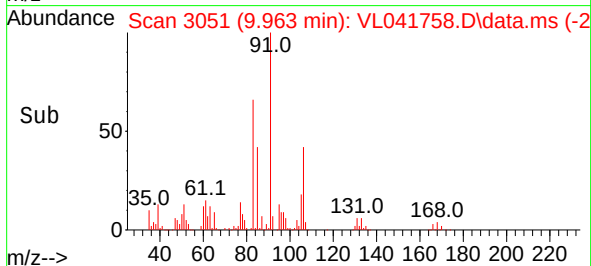
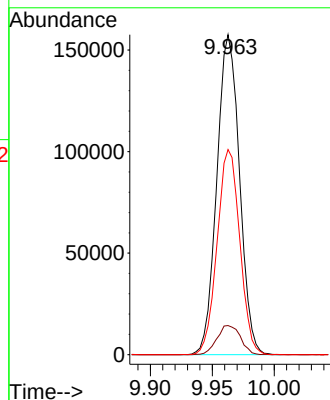
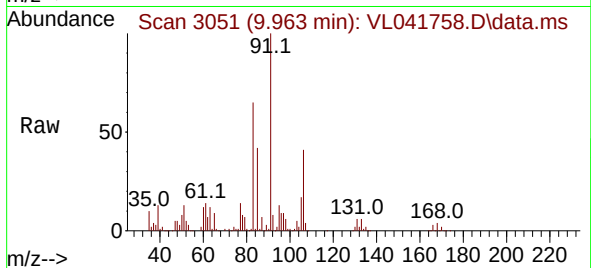
Tgt Ion: 83 Resp: 201057

Ion Ratio Lower Upper

83 100

131 9.5 4.9 14.7

85 64.0 32.0 96.2



#64

n-propylbenzene

Concen: 14.602 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL041758.D

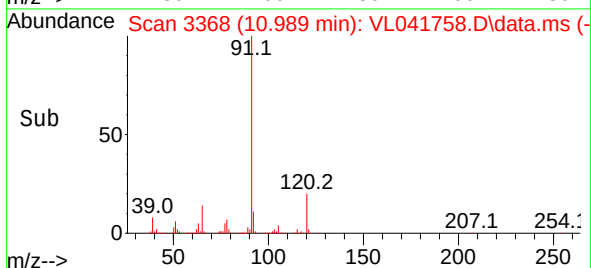
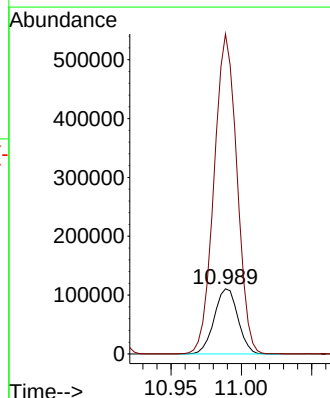
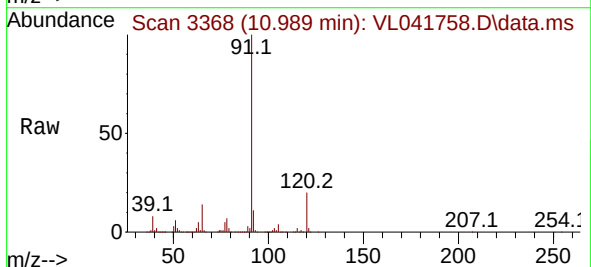
Acq: 16 Dec 2024 16:41

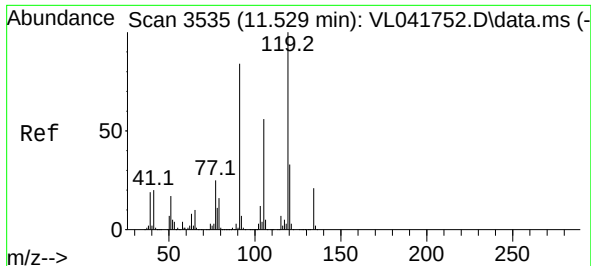
Tgt Ion:120 Resp: 129200

Ion Ratio Lower Upper

120 100

91 475.8 387.3 580.9





#65

tert-Butylbenzene

Concen: 14.148 ppbv

RT: 11.532 min Scan# 3535

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

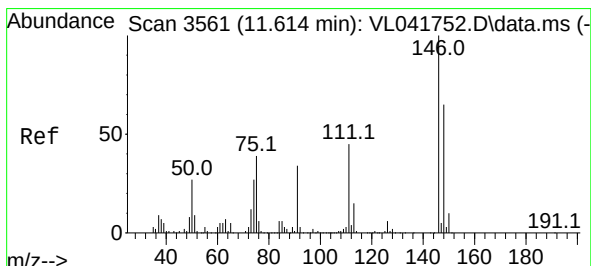
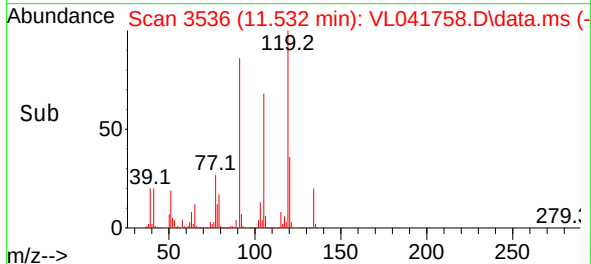
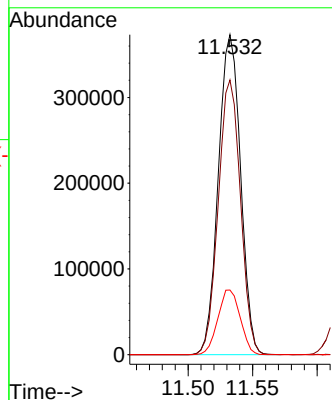
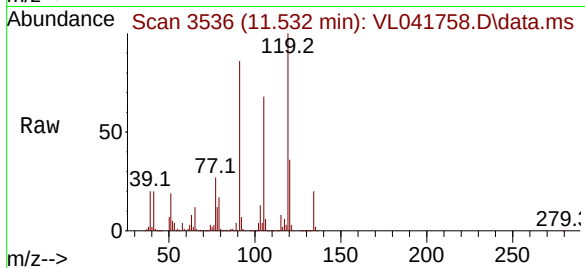
Tgt Ion:119 Resp: 446690

Ion Ratio Lower Upper

119 100

91 85.7 67.0 100.4

134 20.3 16.5 24.7



#66

Benzyl Chloride

Concen: 16.234 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

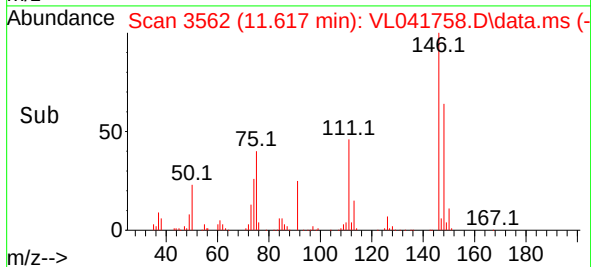
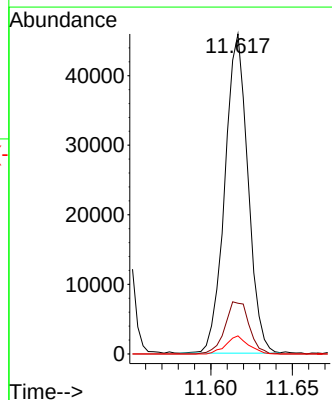
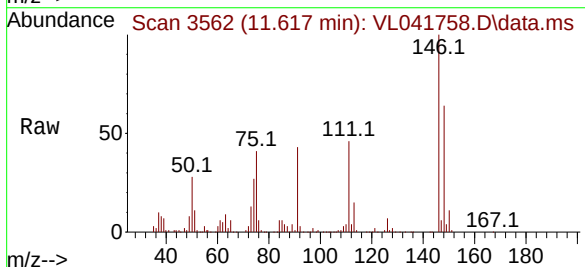
Tgt Ion: 91 Resp: 45189

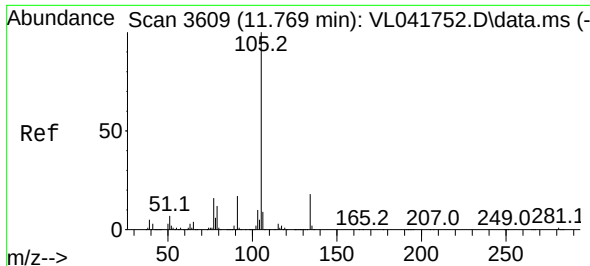
Ion Ratio Lower Upper

91 100

126 17.1 13.9 20.9

128 5.5 4.4 6.6

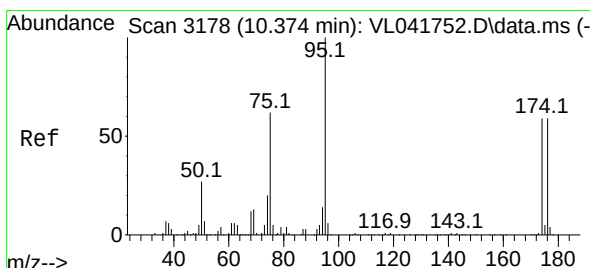
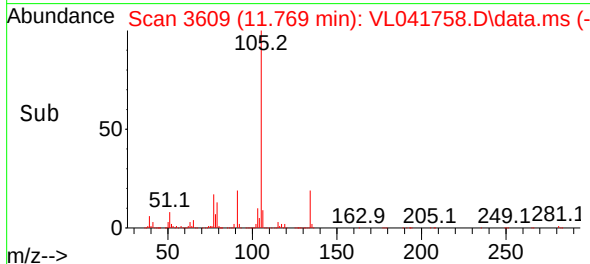
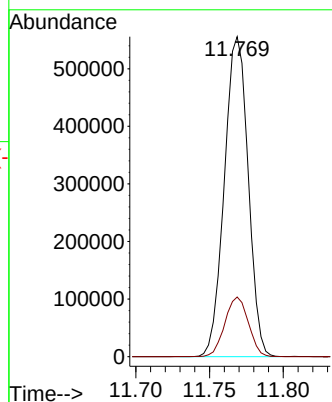
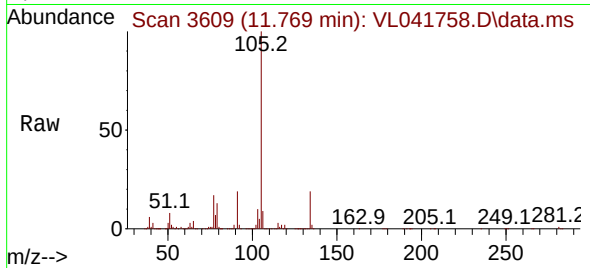




#67
 sec-Butylbenzene
 Concen: 14.295 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

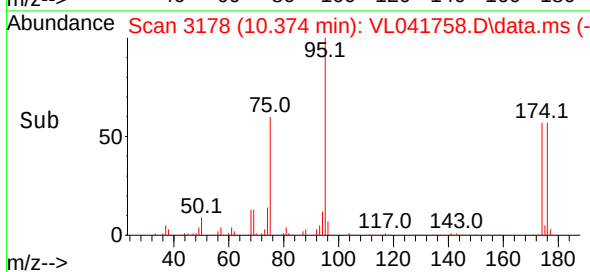
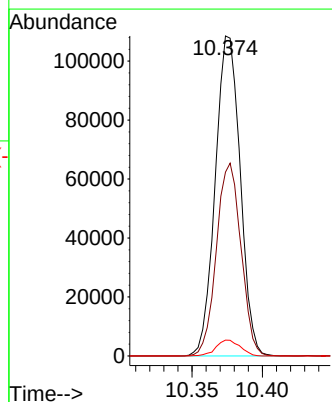
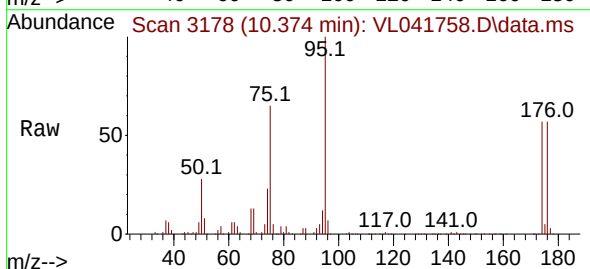
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

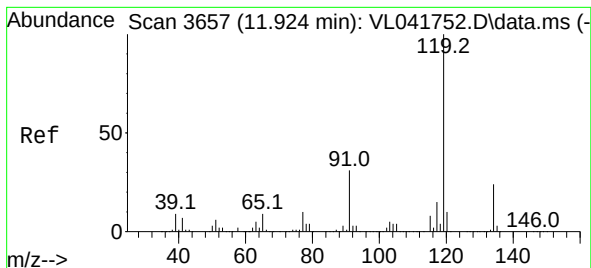
Tgt Ion:105 Resp: 624565
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.5 21.7



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.998 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Tgt Ion: 95 Resp: 133687
 Ion Ratio Lower Upper
 95 100
 174 59.4 47.6 71.4
 175 4.8 3.7 5.5





#69

p-Isopropyltoluene

Concen: 14.671 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

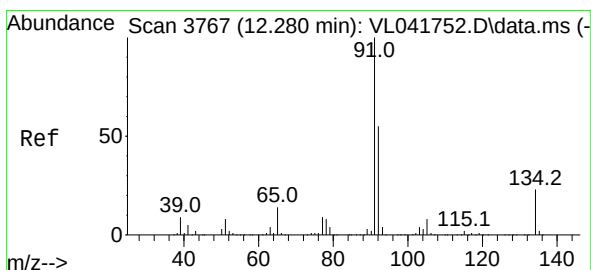
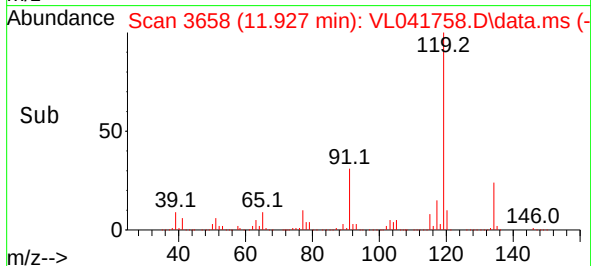
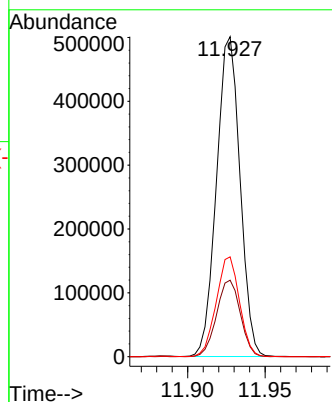
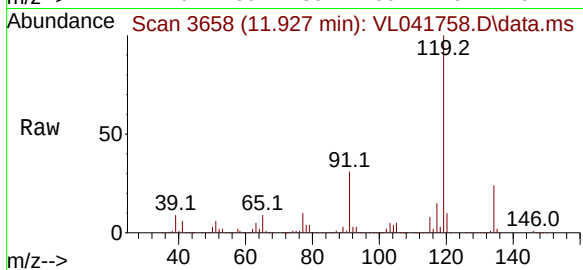
Tgt Ion:119 Resp: 528265

Ion Ratio Lower Upper

119 100

134 24.3 19.6 29.4

91 31.0 24.4 36.6



#70

n-Butylbenzene

Concen: 15.101 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

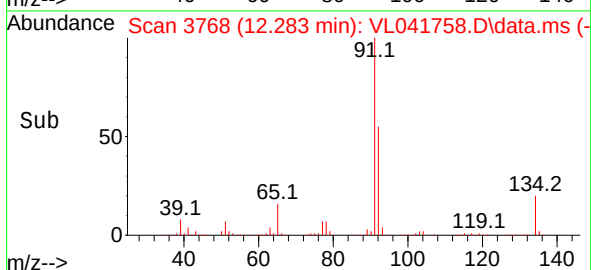
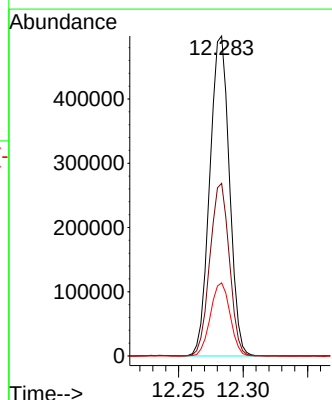
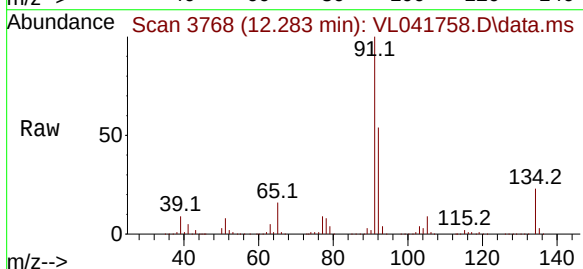
Tgt Ion: 91 Resp: 525377

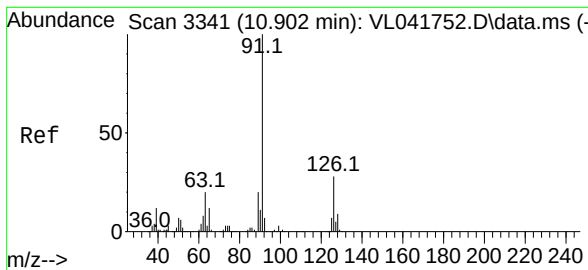
Ion Ratio Lower Upper

91 100

92 53.8 43.2 64.8

134 22.8 18.2 27.4

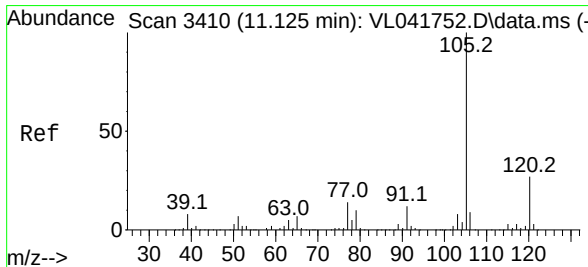
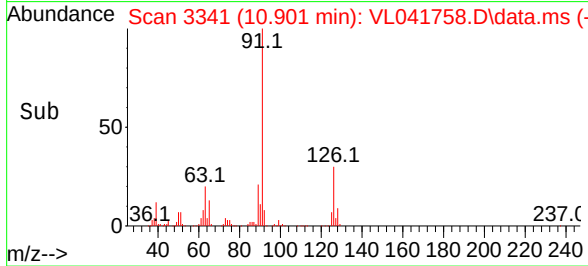
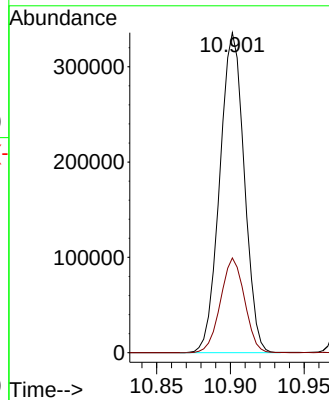
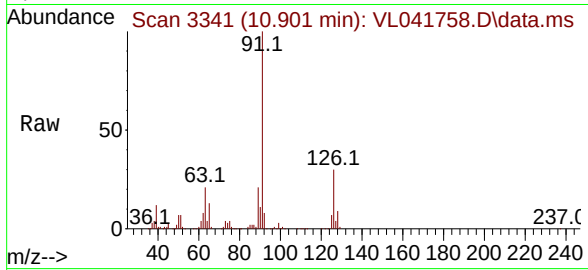




#71
2-Chlorotoluene
Concen: 14.498 ppbv
RT: 10.901 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

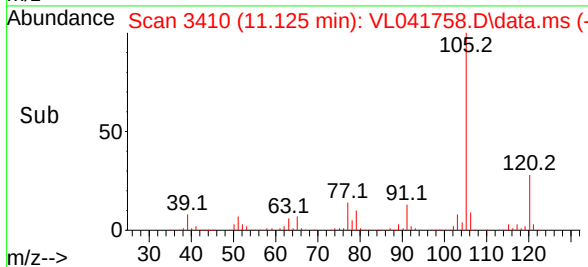
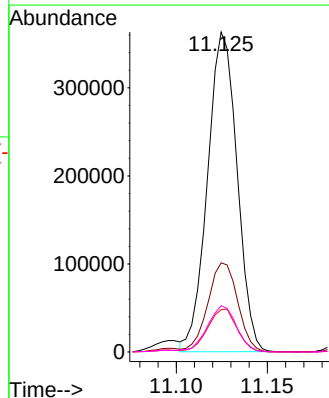
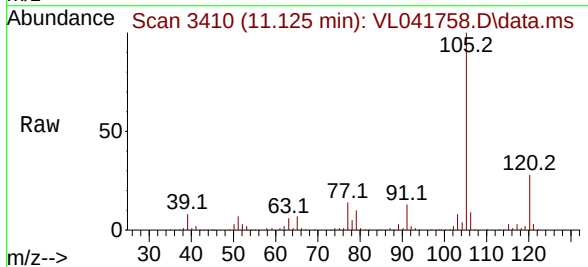
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

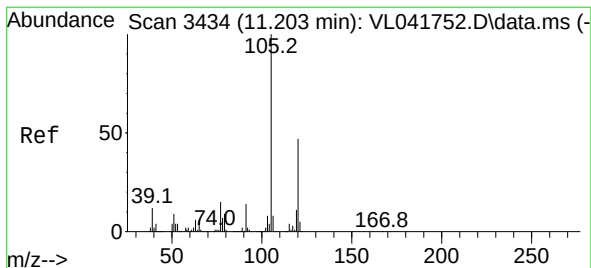
Tgt Ion: 91 Resp: 387300
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#72
4-Ethyltoluene
Concen: 14.934 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 409822
Ion Ratio Lower Upper
105 100
120 29.2 23.3 34.9
91 13.9 10.9 16.3
77 14.7 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 15.383 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

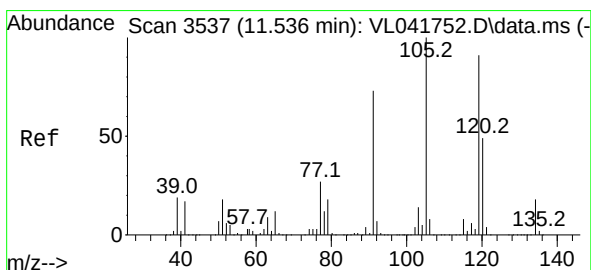
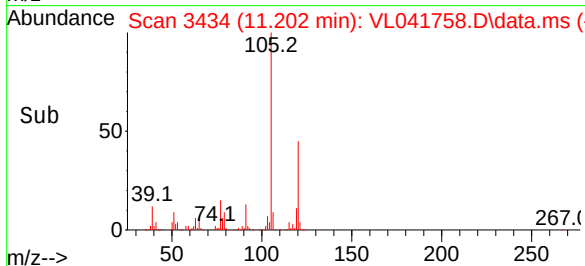
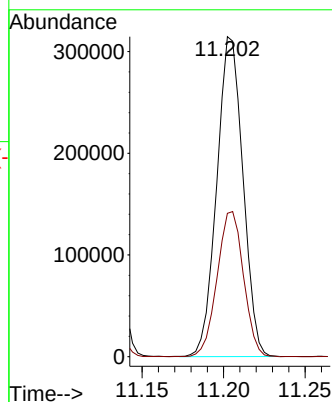
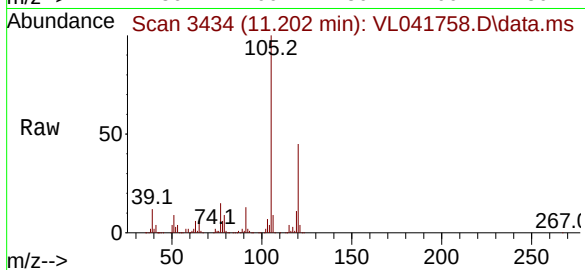
VSTDIC015

Tgt Ion:105 Resp: 350895

Ion Ratio Lower Upper

105 100

120 44.8 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 15.144 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 371476

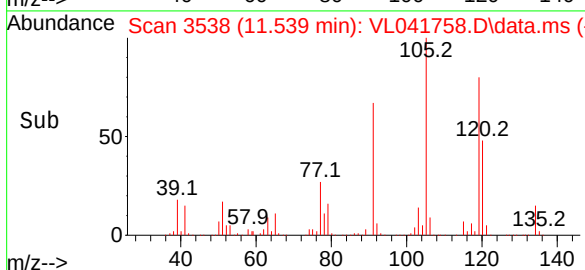
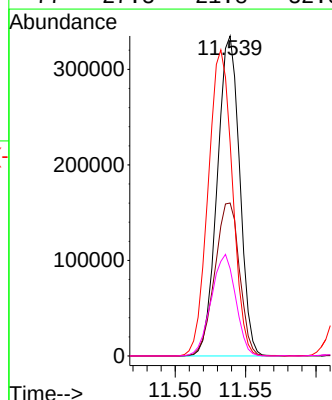
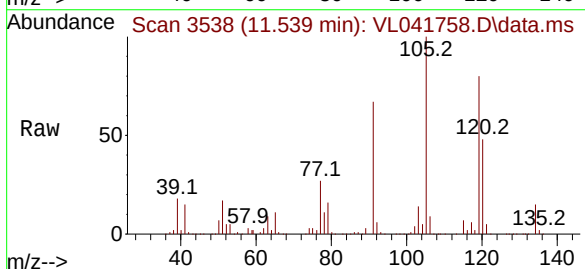
Ion Ratio Lower Upper

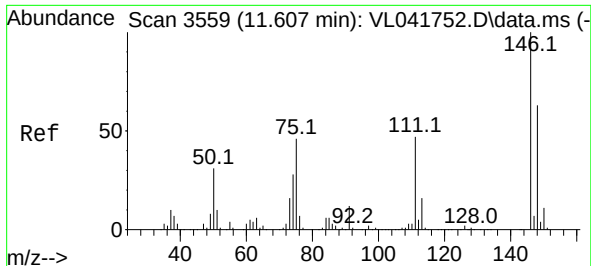
105 100

120 47.8 39.0 58.4

91 66.6 58.1 87.1

77 27.3 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 14.036 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC015

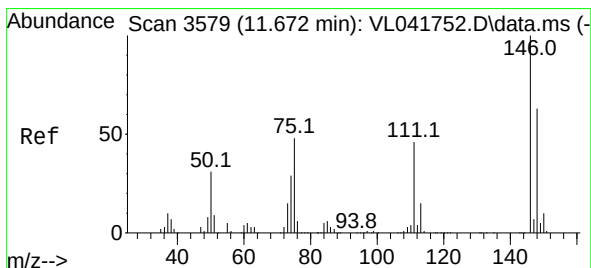
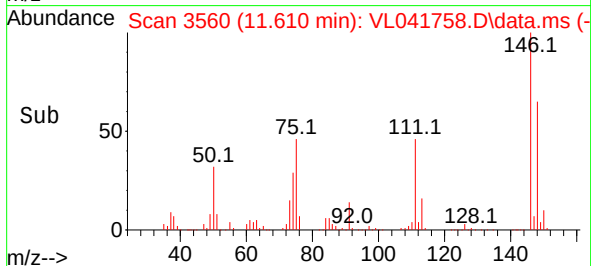
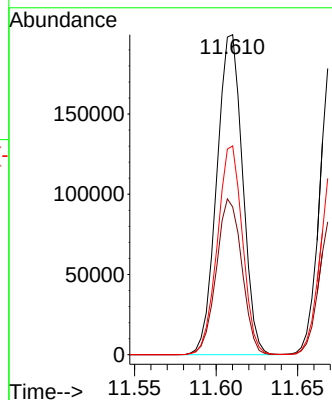
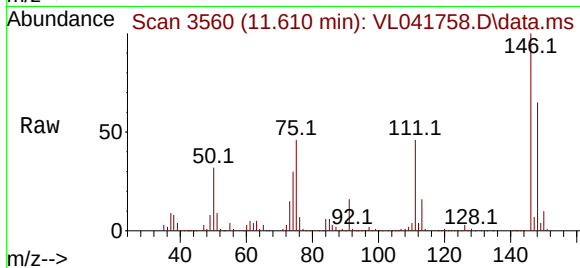
Tgt Ion:146 Resp: 219506

Ion Ratio Lower Upper

146 100

111 48.2 23.4 70.3

148 63.5 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 14.388 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

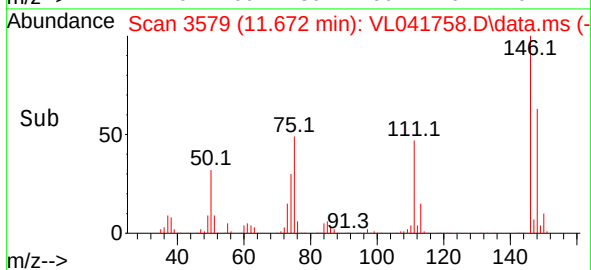
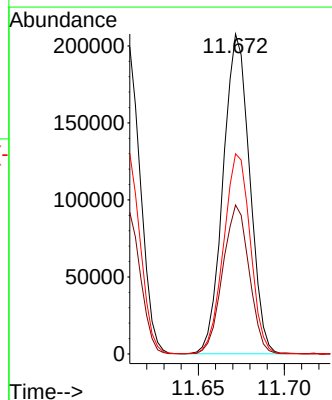
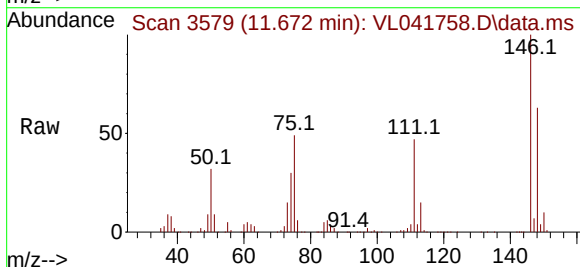
Tgt Ion:146 Resp: 222290

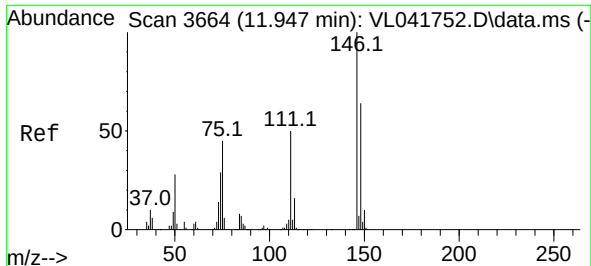
Ion Ratio Lower Upper

146 100

111 46.6 22.7 68.1

148 63.2 31.4 94.0

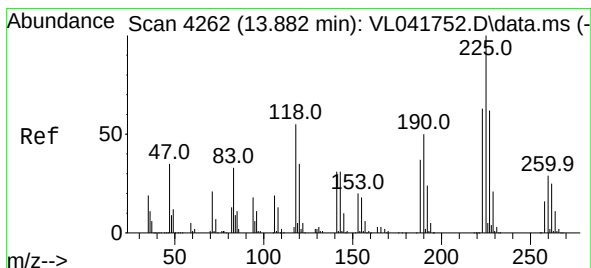
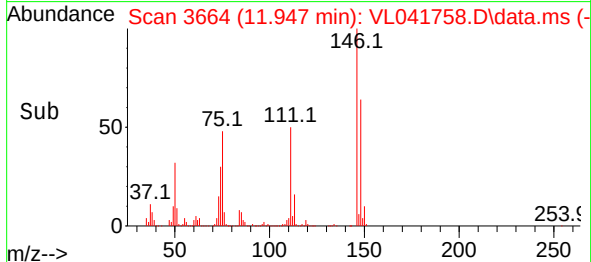
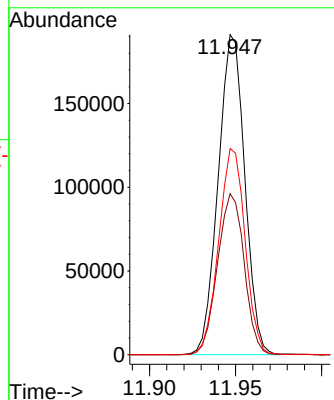
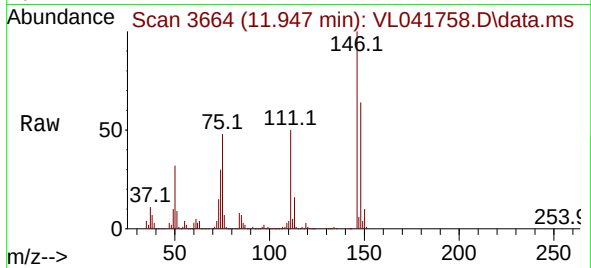




#77
1,2-Dichlorobenzene
Concen: 13.672 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

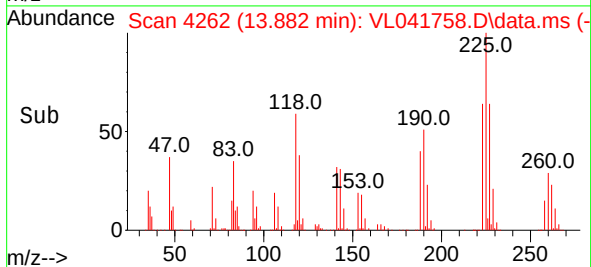
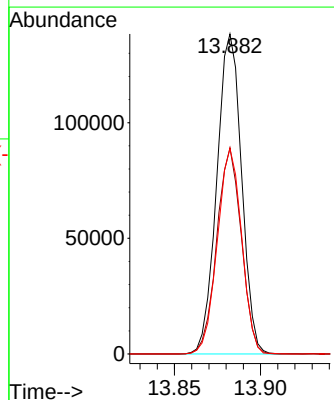
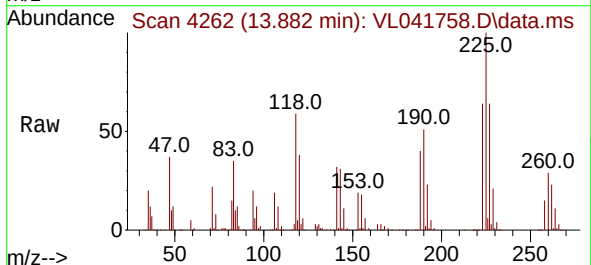
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

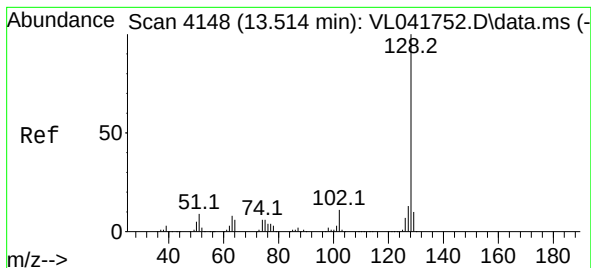
Tgt Ion:146 Resp: 205737
Ion Ratio Lower Upper
146 100
111 50.4 24.8 74.3
148 63.9 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 12.412 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Tgt Ion:225 Resp: 138481
Ion Ratio Lower Upper
225 100
223 63.7 50.5 75.7
227 63.1 50.3 75.5





#79

Naphthalene

Concen: 17.611 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

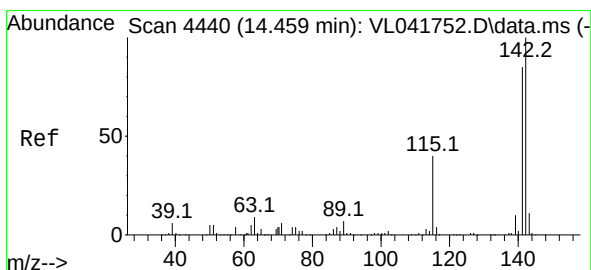
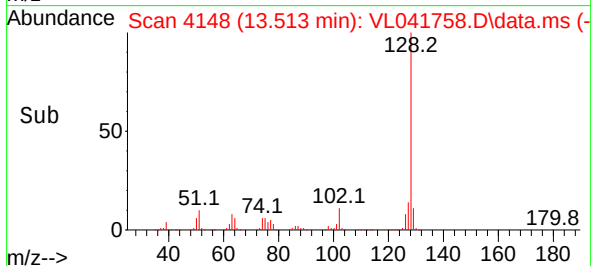
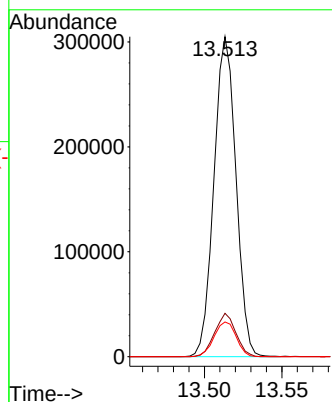
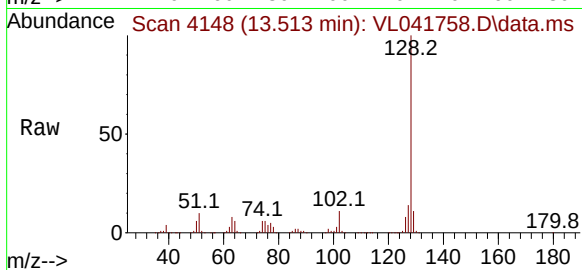
Tgt Ion:128 Resp: 301006

Ion Ratio Lower Upper

128 100

127 13.6 10.7 16.1

129 10.9 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 30.630 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

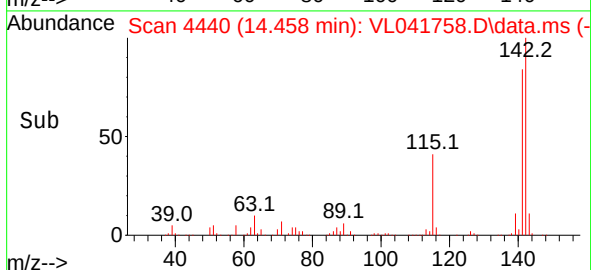
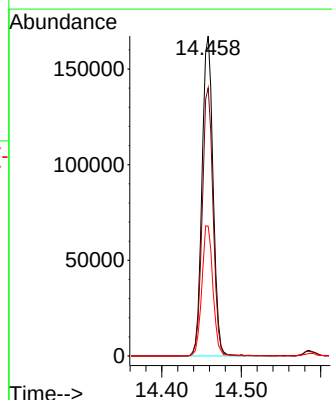
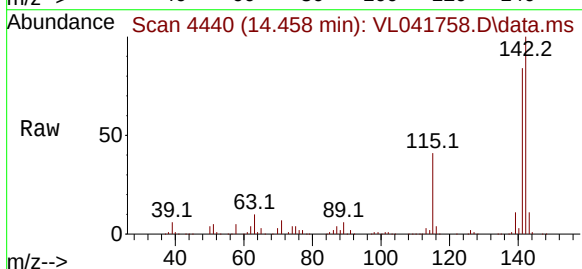
Tgt Ion:142 Resp: 161927

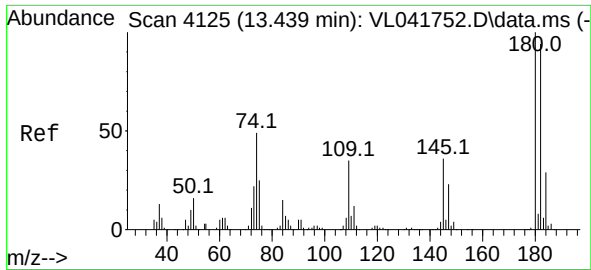
Ion Ratio Lower Upper

142 100

141 82.6 68.4 102.6

115 40.9 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 15.669 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041758.D

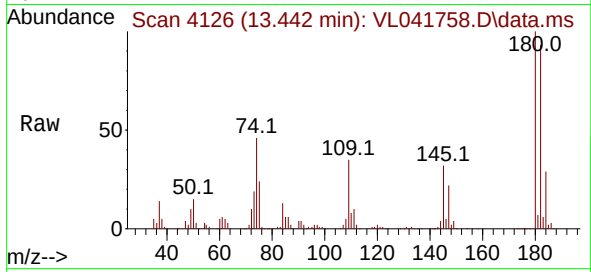
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



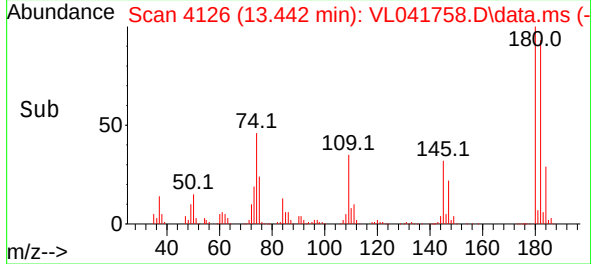
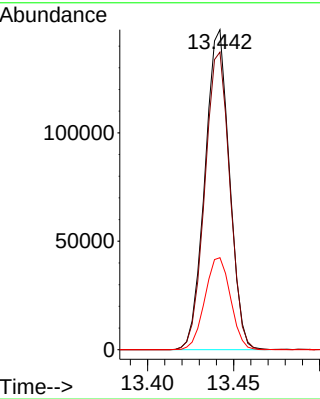
Tgt Ion:180 Resp: 146340

Ion Ratio Lower Upper

180 100

182 94.8 77.0 115.6

184 30.0 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64976	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	174378	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	153443	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	129985	10.166	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	106780	9.236	ppbv	95
3) Chlorodifluoromethane	1.476	51	105141	9.922	ppbv	99
4) Chloromethane	1.531	50	43409	9.596	ppbv	96
5) Vinyl Chloride	1.580	62	40956	8.986	ppbv	97
6) Bromomethane	1.667	94	19590	9.109	ppbv	94
7) Chloroethane	1.703	64	17356	9.803	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	99858	9.650	ppbv	98
9) Propene	1.483	41	41721	9.084	ppbv	98
10) Heptane	4.981	43	115804	9.816	ppbv	99
11) Trichlorofluoromethane	1.877	101	115785	9.428	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	88265	9.450	ppbv	100
13) Ethanol	1.722	45	2534	6.663	ppbv	95
14) Bromoethene	1.780	108	31492	9.987	ppbv	98
15) Acetone	1.835	43	94879	7.505	ppbv	99
16) 1,3-Butadiene	1.609	39	45119	9.063	ppbv	98
17) tert-Butyl alcohol	2.039	59	122035	9.730	ppbv	100
18) 1,1-Dichloroethene	2.033	96	37466	9.568	ppbv	98
19) Isopropyl Alcohol	1.884	45	57577	7.590	ppbv	98
20) Methylene Chloride	2.062	84	32325	8.967	ppbv	96
21) Allyl Chloride	2.094	41	67596	9.859	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	42651	9.515	ppbv	97
23) Vinyl Acetate	2.463	43	51812	8.826	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	87006	9.589	ppbv	100
25) Ethyl Acetate	2.835	43	234370	9.965	ppbv	100
26) Hexane	2.826	57	87034	9.752	ppbv	97
27) Carbon Disulfide	2.149	76	85650	10.649	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	62189	8.589	ppbv	99
29) Chloroform	2.848	83	134541	9.892	ppbv	98
30) Cyclohexane	3.858	84	75274	9.912	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	91628	9.935	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	137978	9.979	ppbv	99
34) 2-Butanone	2.557	43	133939	9.547	ppbv	99
35) Carbon Tetrachloride	3.764	117	138537	11.191	ppbv	97
36) Benzene	3.658	78	176537	9.787	ppbv	99
37) 1,2-Dichloroethane	3.221	62	112037	9.982	ppbv	99
38) Trichloroethene	4.551	130	70108	9.156	ppbv	96
39) 1,2-Dichloropropane	4.318	63	63675	9.761	ppbv	95
40) 1,4-Dioxane	4.583	88	30891	9.693	ppbv #	98
41) Tetrahydrofuran	3.056	42	77472	9.857	ppbv	99
42) Bromodichloromethane	4.493	83	139717	10.821	ppbv	95
43) Methyl Methacrylate	4.881	69	70299	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.641	57	301772	9.796	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	77534	10.907	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

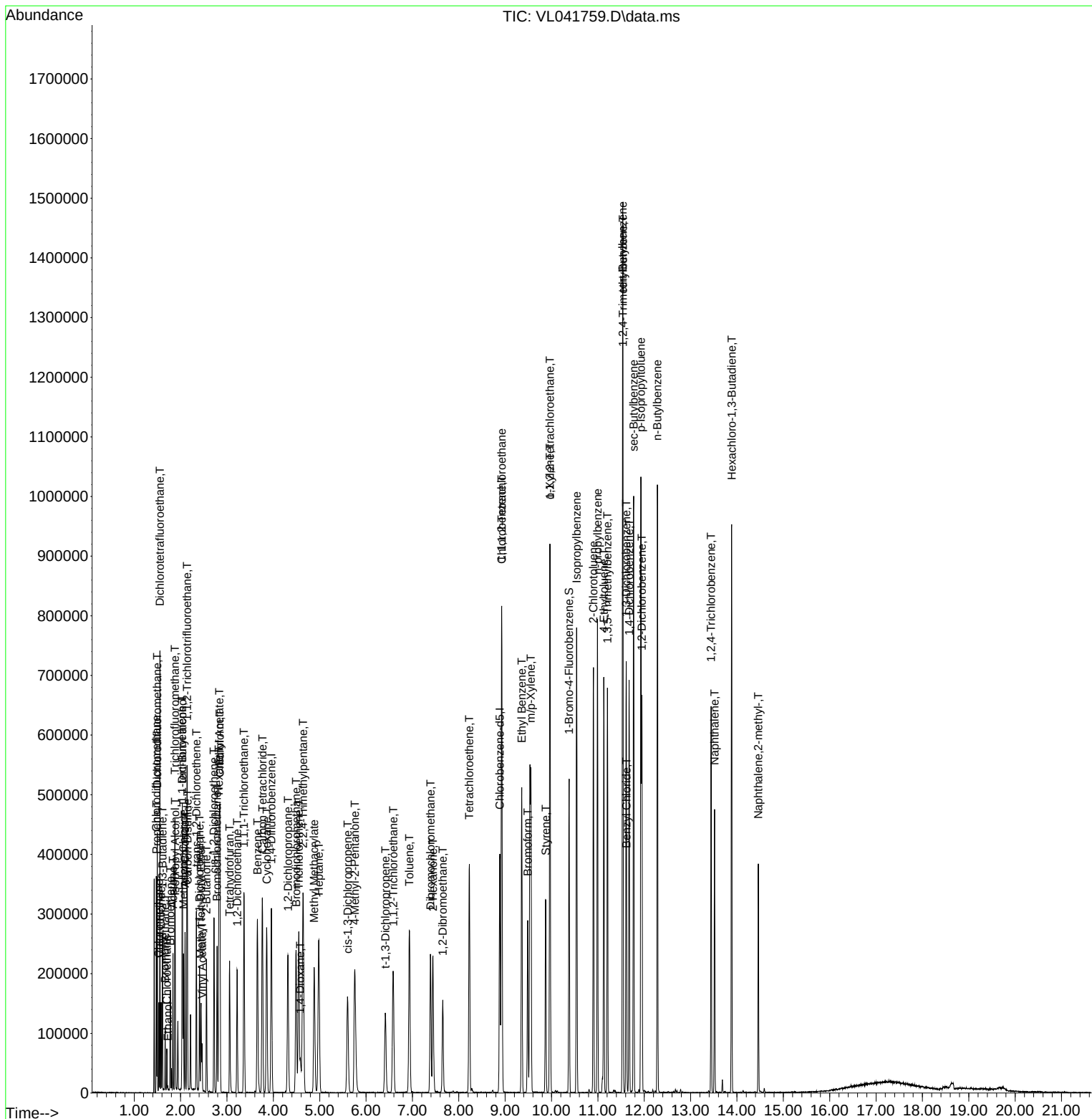
Instrument :
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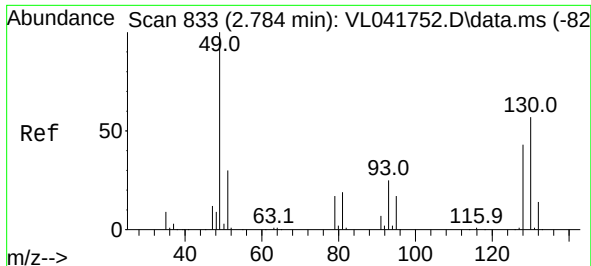
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	37758	5.541	ppbv	94
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv	100
49) Bromoform	9.487	173	88971	11.682	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	190637	9.980	ppbv	99
51) 2-Hexanone	7.441	43	155646	10.053	ppbv #	100
52) Tetrachloroethene	8.228	164	62782	9.351	ppbv	96
53) Toluene	6.933	91	199754	9.768	ppbv	99
54) 1,2-Dibromoethane	7.655	107	93439	9.952	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	85883	10.558	ppbv	99
57) Chlorobenzene	8.924	112	155257	9.888	ppbv	98
58) Ethyl Benzene	9.357	91	284770	10.308	ppbv	98
59) m/p-Xylene	9.555	91	238458	10.735	ppbv #	100
60) o-Xylene	9.966	91	229517	10.304	ppbv	98
61) Styrene	9.875	104	106841	11.093	ppbv	99
62) Isopropylbenzene	10.542	105	348887	10.425	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	137547	9.865	ppbv	99
64) n-propylbenzene	10.992	120	87865	10.384	ppbv	98
65) tert-Butylbenzene	11.536	119	307790	10.194	ppbv	100
66) Benzyl Chloride	11.620	91	29398	11.054	ppbv	99
67) sec-Butylbenzene	11.772	105	430521	10.304	ppbv	99
69) p-Isopropyltoluene	11.927	119	365667	10.620	ppbv	100
70) n-Butylbenzene	12.283	91	356880	10.727	ppbv	99
71) 2-Chlorotoluene	10.904	91	264123	10.340	ppbv	99
72) 4-Ethyltoluene	11.128	105	280580	10.672	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	237804	10.902	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	256141	10.919	ppbv #	88
75) 1,3-Dichlorobenzene	11.610	146	149927	10.025	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	152212	10.302	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	142734	9.919	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	94671	8.873	ppbv	99
79) Naphthalene	13.516	128	202413	12.384	ppbv	100
80) Naphthalene,2-methyl-	14.461	142	102431	20.261	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	98468	11.025	ppbv	99

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

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
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QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

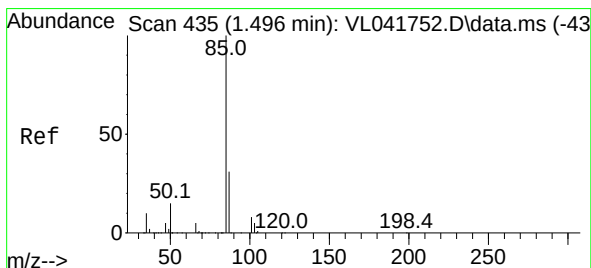
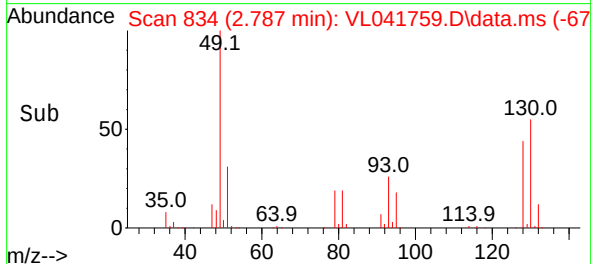
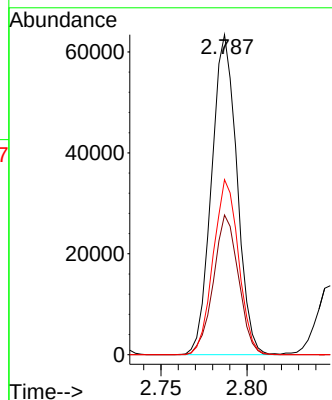
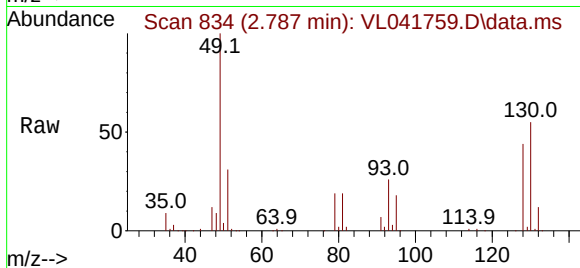




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

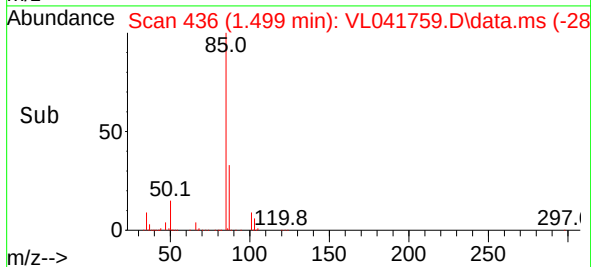
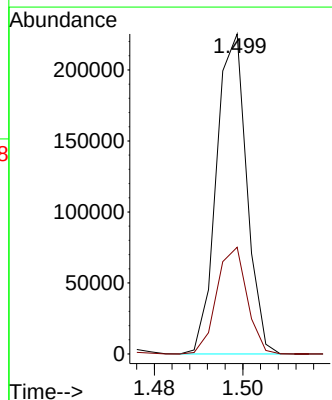
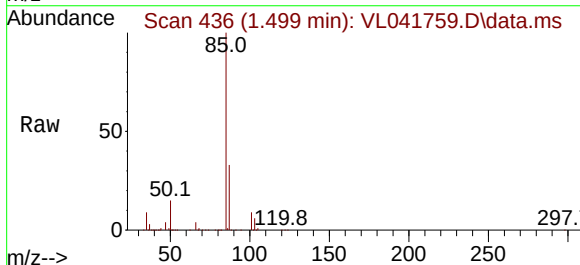
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ClientSampleId :
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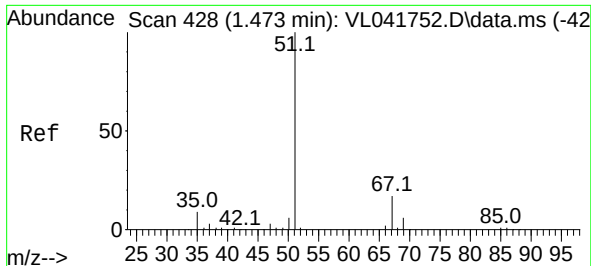
Tgt Ion: 49 Resp: 64976
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.6
130 54.5 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 9.236 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 85 Resp: 106780
Ion Ratio Lower Upper
85 100
87 33.4 24.5 36.7

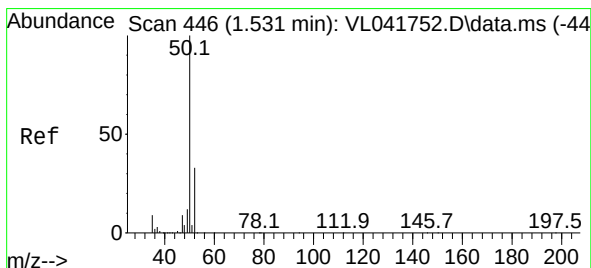
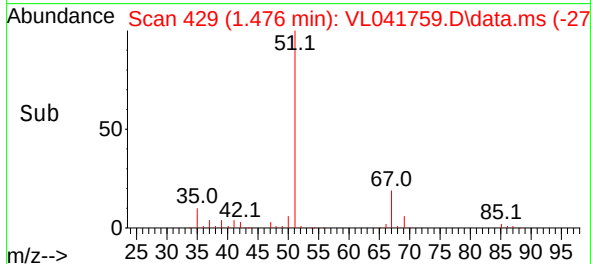
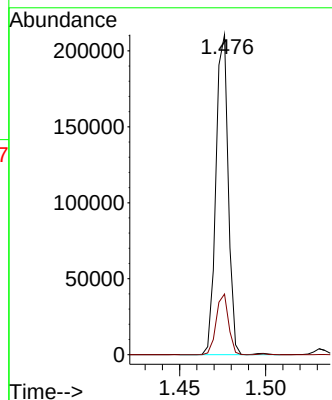
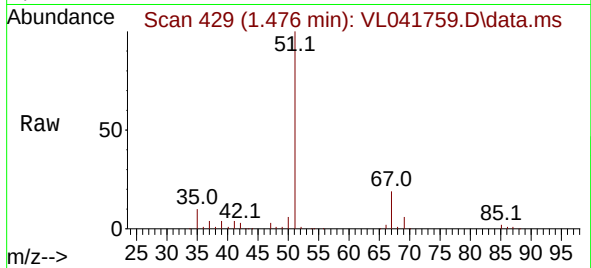




#3
Chlorodifluoromethane
Concen: 9.922 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

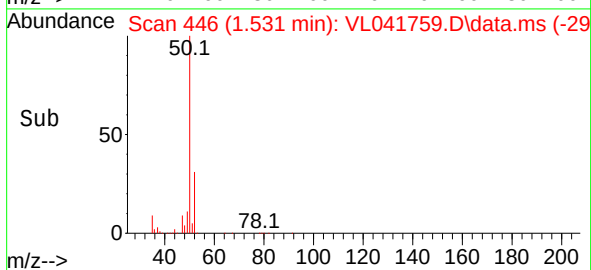
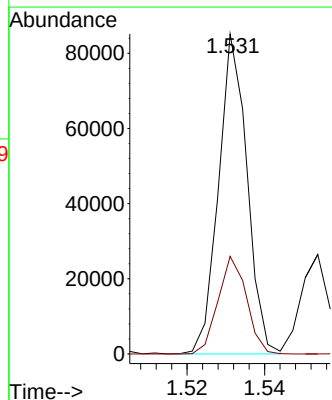
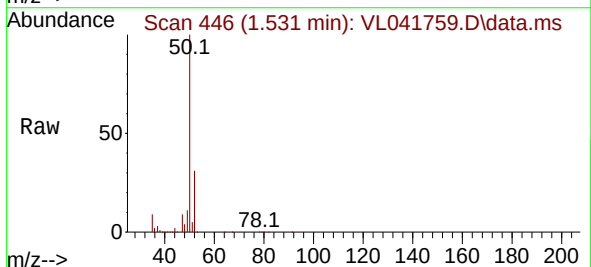
Instrument :
MSVOA_1
ClientSampleId :
ICVVL121624

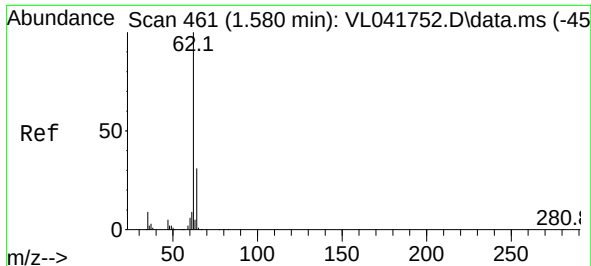
Tgt Ion: 51 Resp: 105141
Ion Ratio Lower Upper
51 100
67 19.1 15.0 22.4



#4
Chloromethane
Concen: 9.596 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 50 Resp: 43409
Ion Ratio Lower Upper
50 100
52 30.6 26.2 39.2

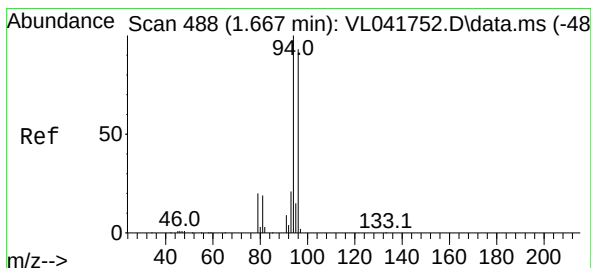
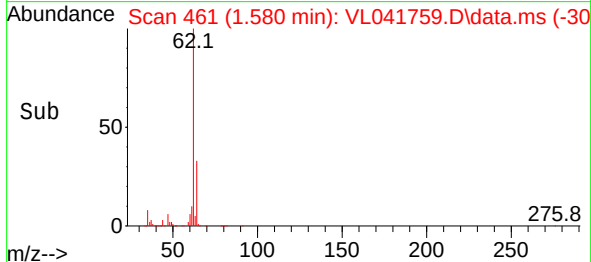
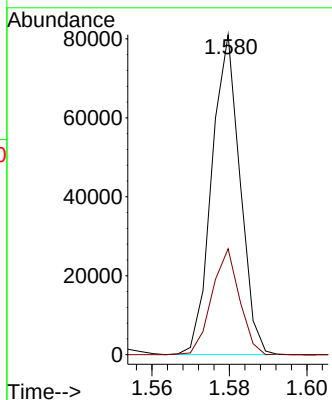
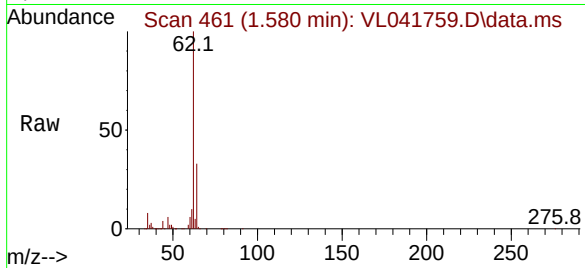




#5
 Vinyl Chloride
 Concen: 8.986 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

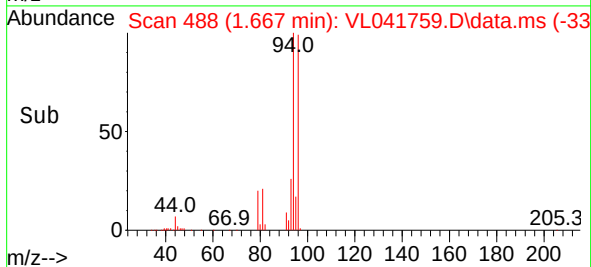
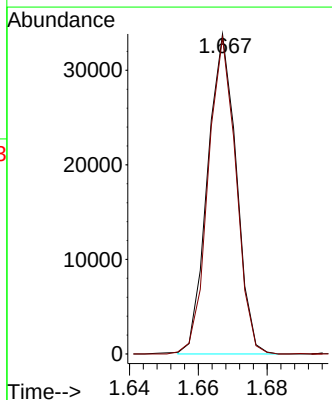
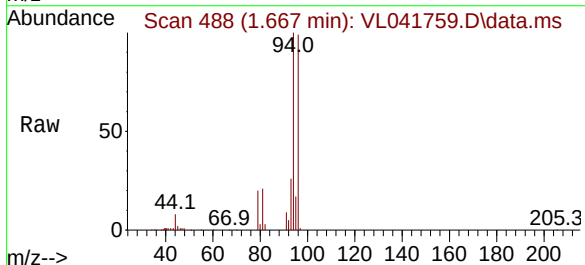
Instrument :
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 ClientSampleId :
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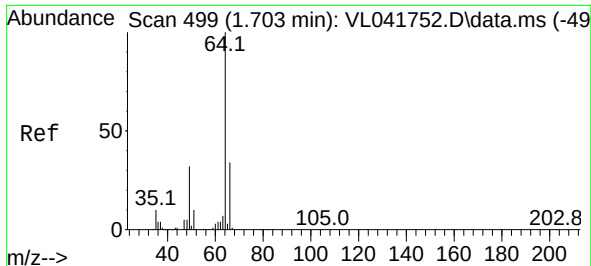
Tgt Ion: 62 Resp: 40956
 Ion Ratio Lower Upper
 62 100
 64 33.0 25.1 37.7



#6
 Bromomethane
 Concen: 9.109 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Tgt Ion: 94 Resp: 19590
 Ion Ratio Lower Upper
 94 100
 96 98.9 74.7 112.1

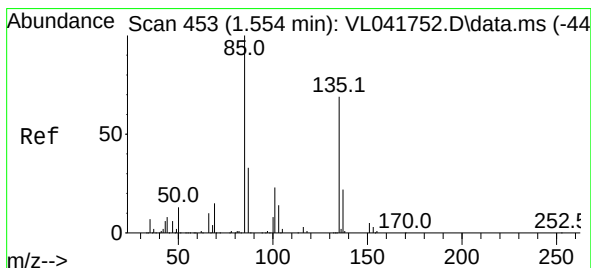
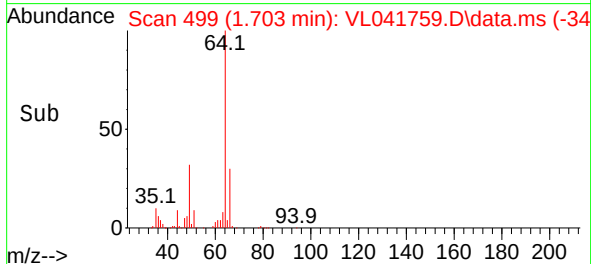
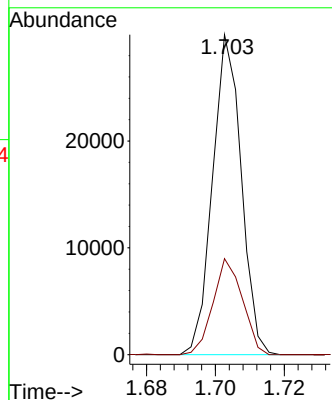
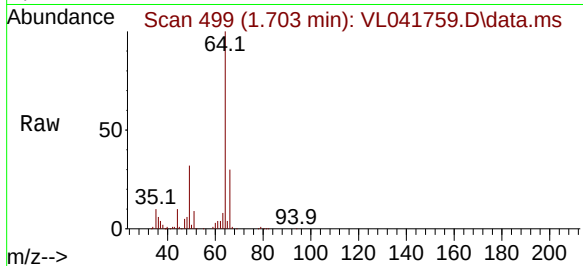




#7
Chloroethane
Concen: 9.803 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

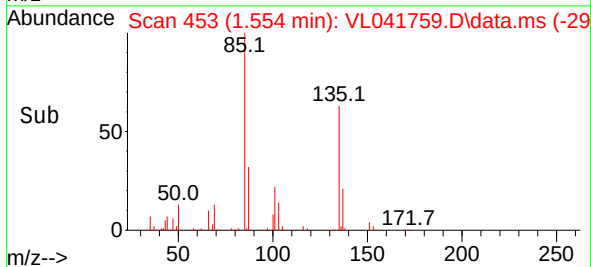
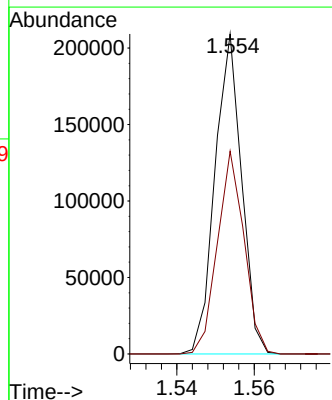
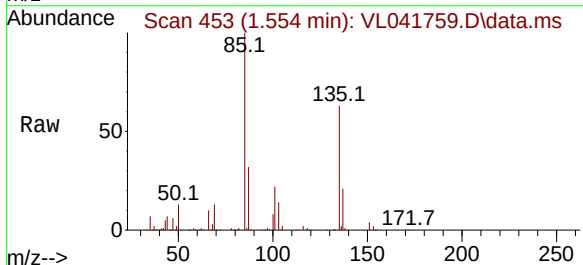
Instrument :
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ClientSampleId :
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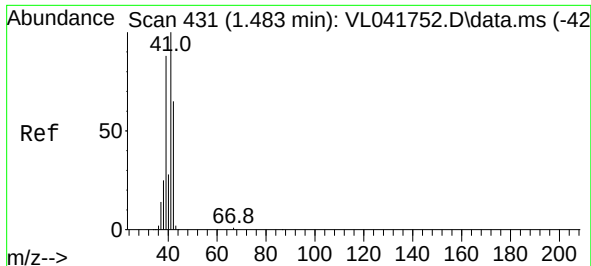
Tgt Ion: 64 Resp: 17356
Ion Ratio Lower Upper
64 100
66 30.0 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 9.650 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 85 Resp: 99858
Ion Ratio Lower Upper
85 100
135 63.6 51.9 77.9





#9

Propene

Concen: 9.084 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

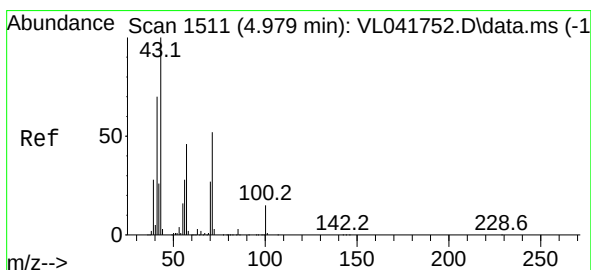
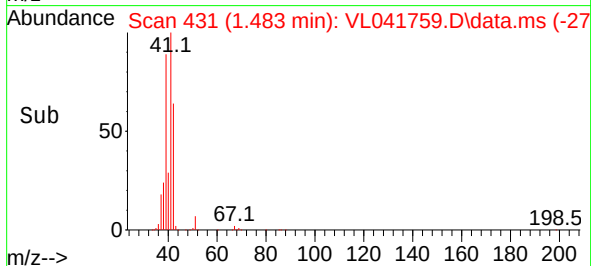
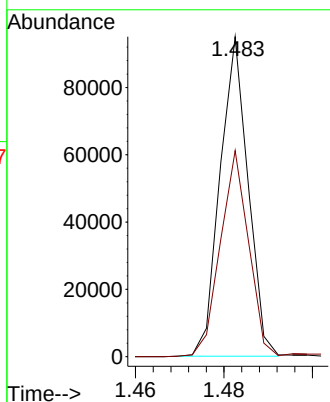
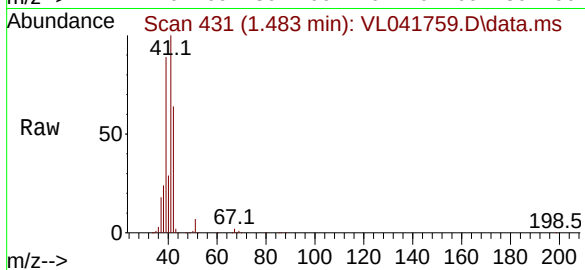
ICVVL121624

Tgt Ion: 41 Resp: 41721

Ion Ratio Lower Upper

41 100

42 66.7 52.4 78.6



#10

Heptane

Concen: 9.816 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.003 min

Lab File: VL041759.D

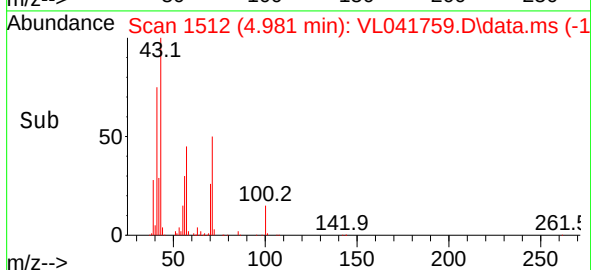
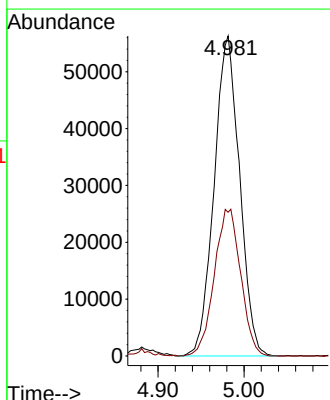
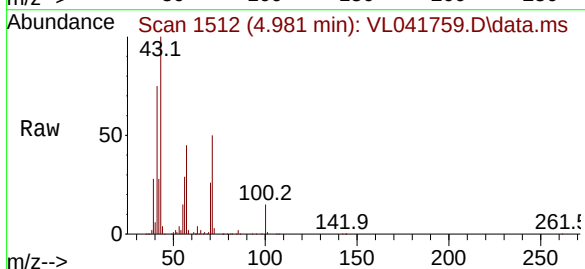
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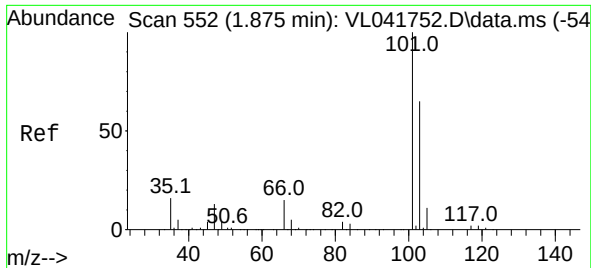
Tgt Ion: 43 Resp: 115804

Ion Ratio Lower Upper

43 100

57 47.4 38.5 57.7





#11

Trichlorofluoromethane

Concen: 9.428 ppbv

RT: 1.877 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

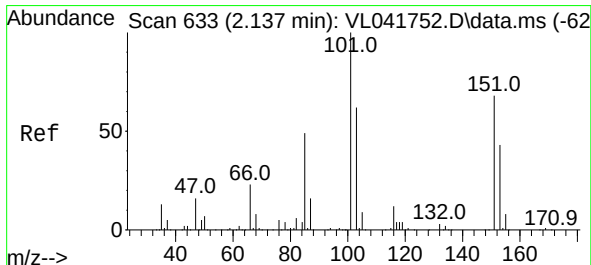
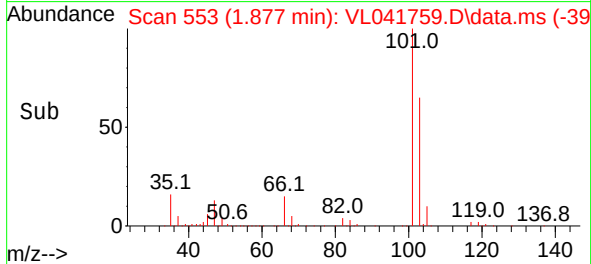
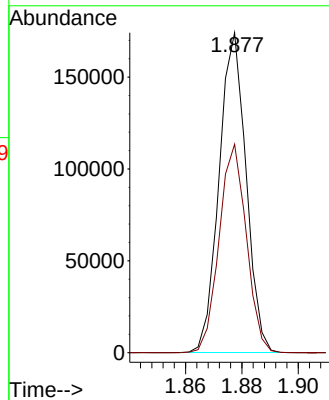
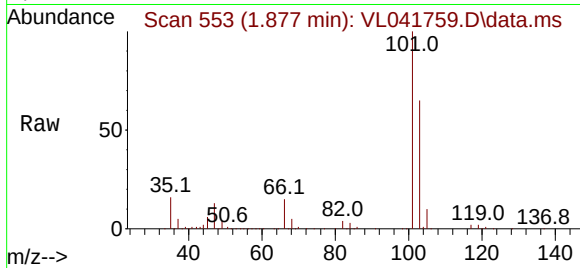
ICVVL121624

Tgt Ion:101 Resp: 115785

Ion Ratio Lower Upper

101 100

103 65.2 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.450 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL041759.D

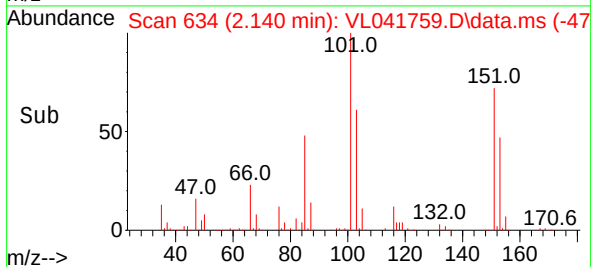
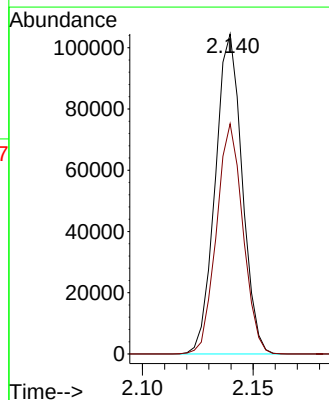
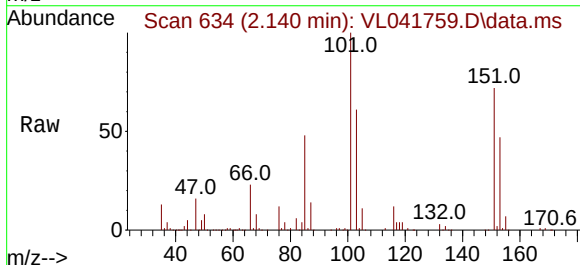
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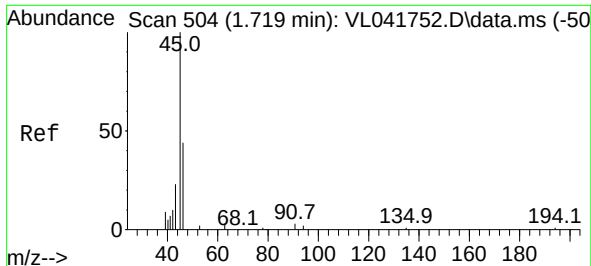
Tgt Ion:101 Resp: 88265

Ion Ratio Lower Upper

101 100

151 70.8 56.8 85.2





#13

Ethanol

Concen: 6.663 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

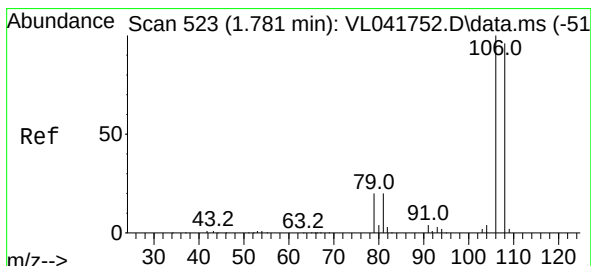
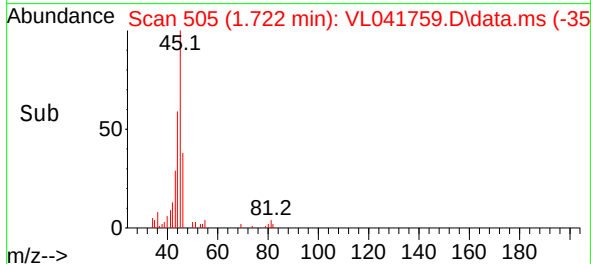
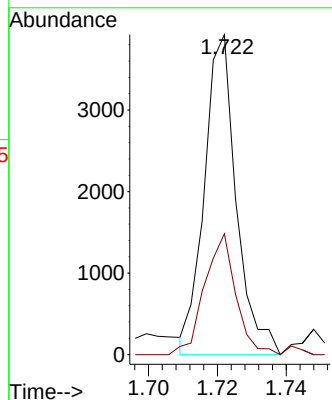
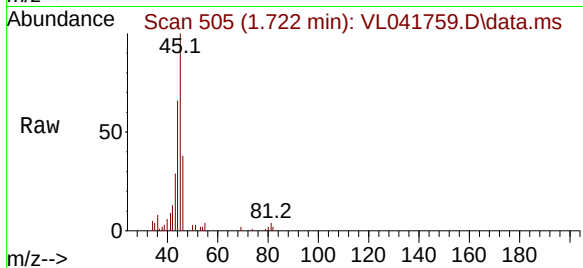
ICVVL121624

Tgt Ion: 45 Resp: 2534

Ion Ratio Lower Upper

45 100

46 38.2 16.4 65.8



#14

Bromoethene

Concen: 9.987 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

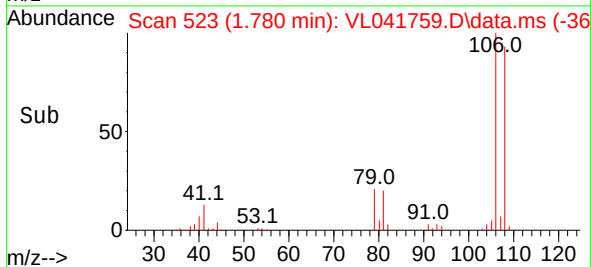
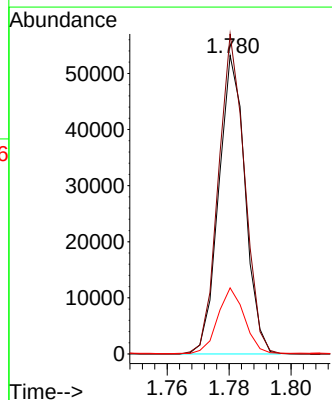
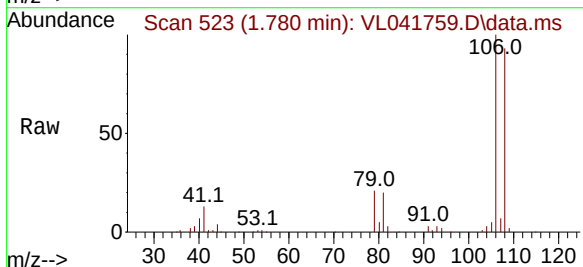
Tgt Ion:108 Resp: 31492

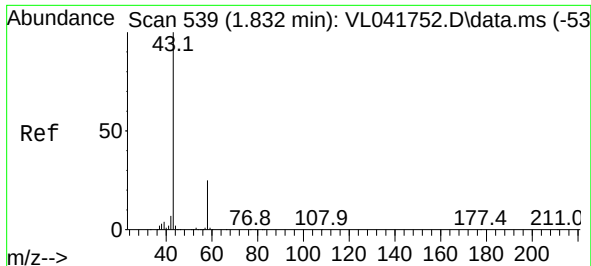
Ion Ratio Lower Upper

108 100

106 106.4 84.1 126.1

79 23.4 17.4 26.0





#15

Acetone

Concen: 7.505 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

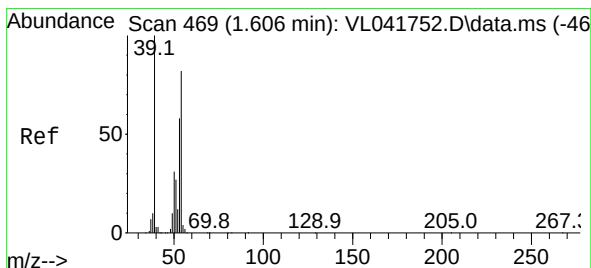
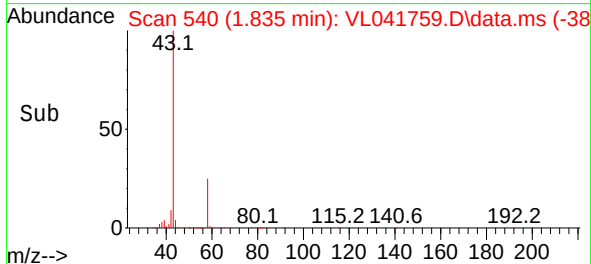
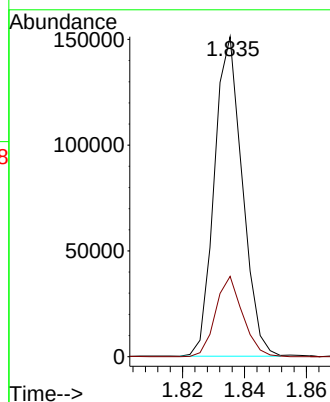
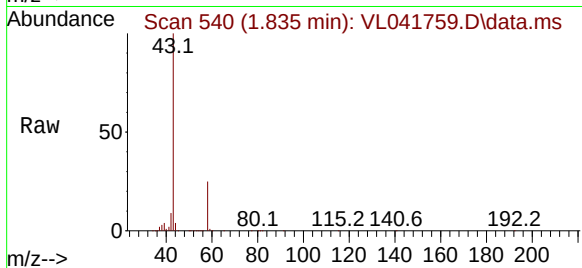
ICVVL121624

Tgt Ion: 43 Resp: 94879

Ion Ratio Lower Upper

43 100

58 24.3 19.7 29.5



#16

1,3-Butadiene

Concen: 9.063 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL041759.D

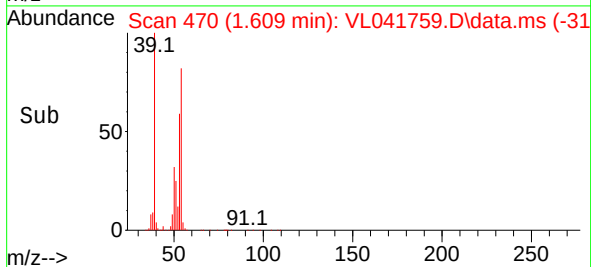
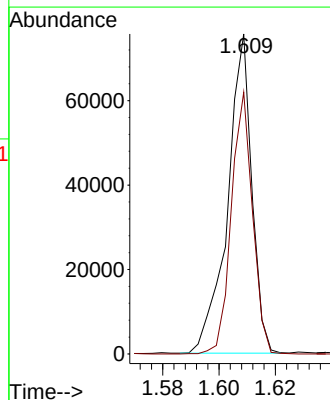
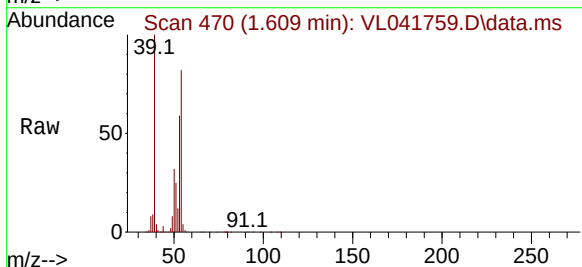
Acq: 16 Dec 2024 18:59

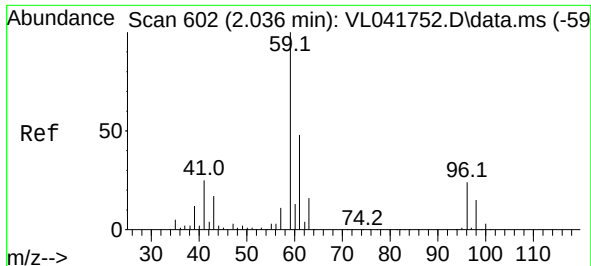
Tgt Ion: 39 Resp: 45119

Ion Ratio Lower Upper

39 100

54 71.7 58.4 87.6





#17

tert-Butyl alcohol

Concen: 9.730 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_1

ClientSampleId :

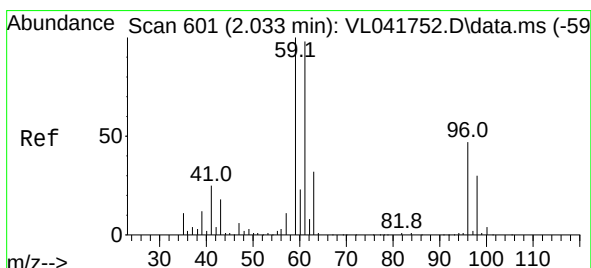
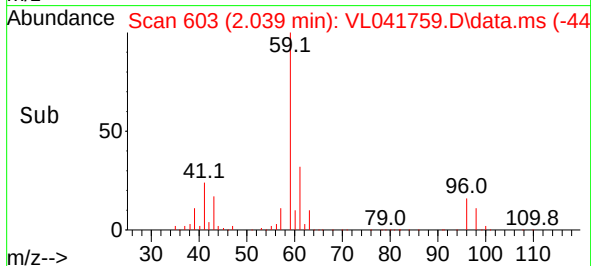
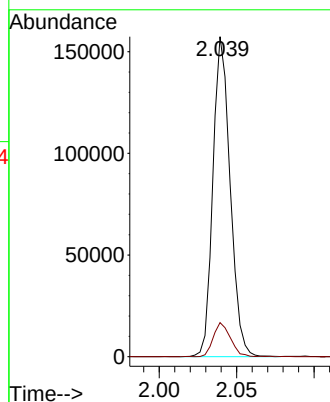
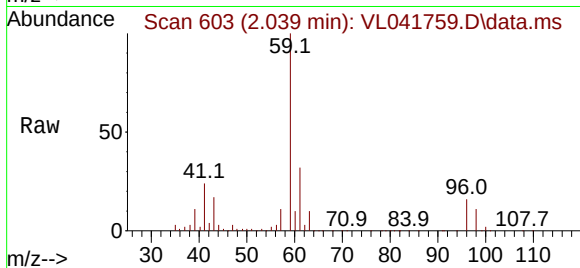
ICVVL121624

Tgt Ion: 59 Resp: 122035

Ion Ratio Lower Upper

59 100

57 10.6 8.6 13.0



#18

1,1-Dichloroethene

Concen: 9.568 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

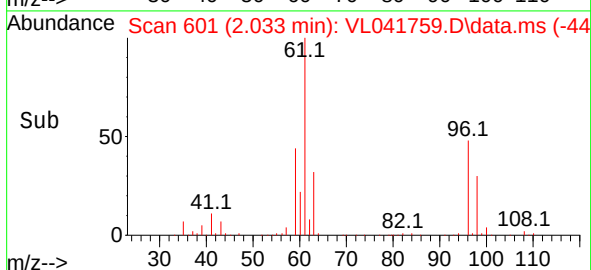
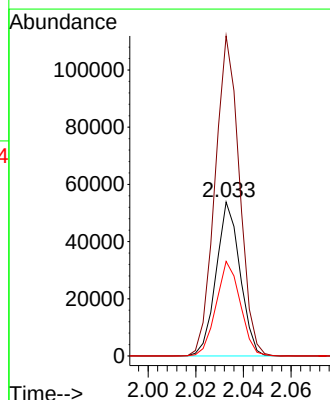
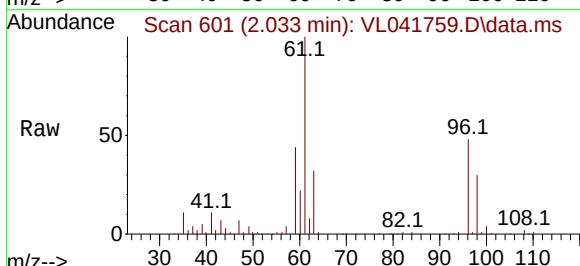
Tgt Ion: 96 Resp: 37466

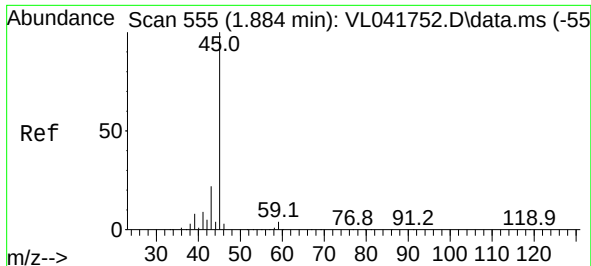
Ion Ratio Lower Upper

96 100

61 207.9 167.7 251.5

98 61.5 51.1 76.7





#19

Isopropyl Alcohol

Concen: 7.590 ppbv

RT: 1.884 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

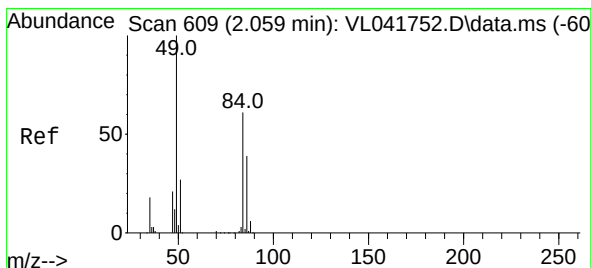
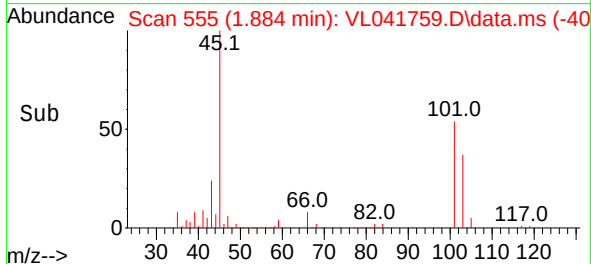
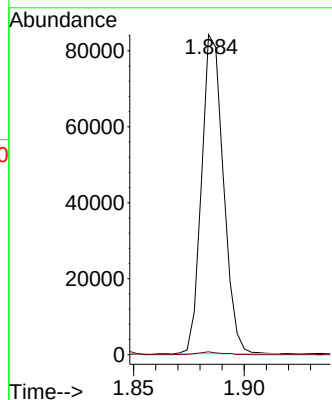
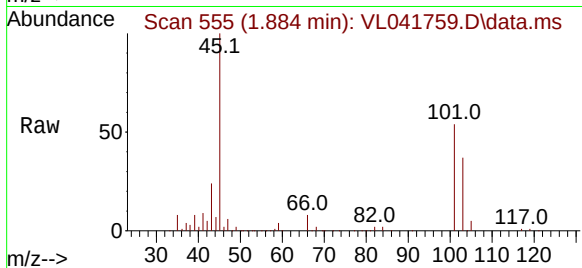
ICVVL121624

Tgt Ion: 45 Resp: 57577

Ion Ratio Lower Upper

45 100

58 40.1 33.3 49.9



#20

Methylene Chloride

Concen: 8.967 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 84 Resp: 32325

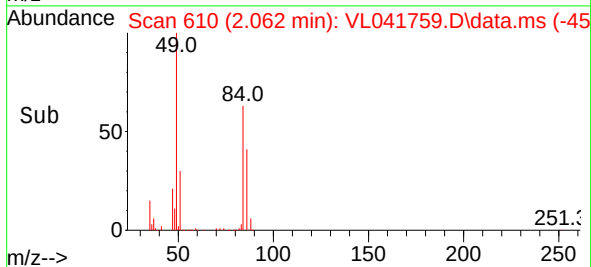
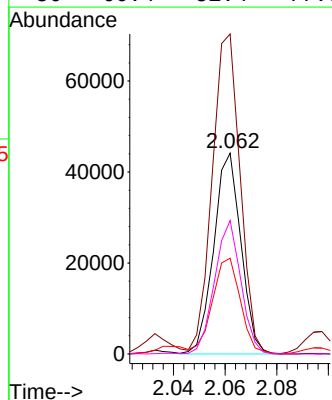
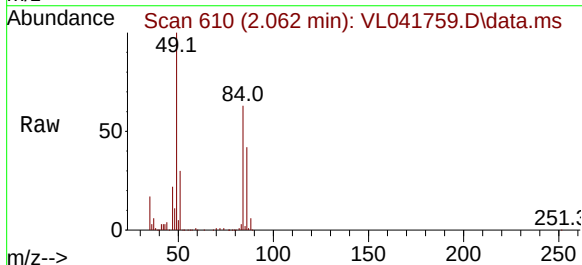
Ion Ratio Lower Upper

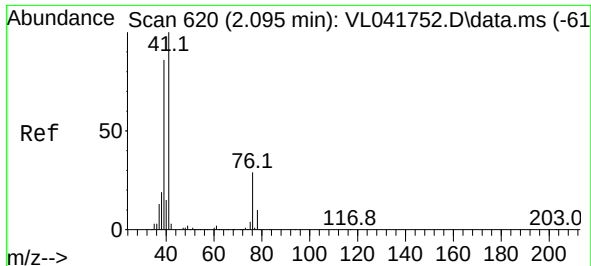
84 100

49 159.1 132.6 198.8

51 47.7 37.6 56.4

86 66.4 51.4 77.0





#21

Allyl Chloride

Concen: 9.859 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

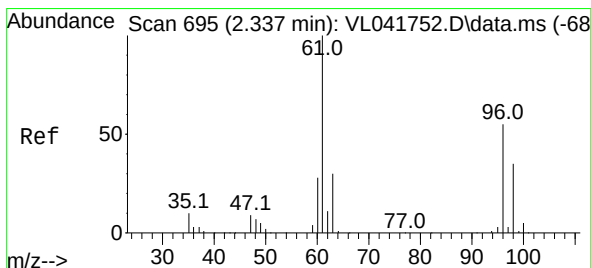
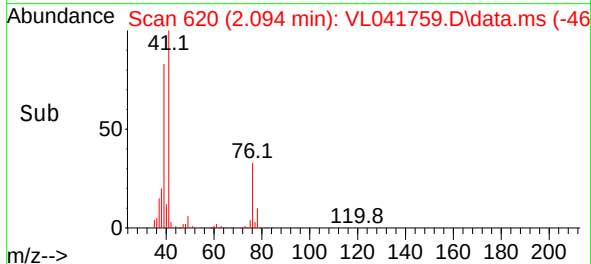
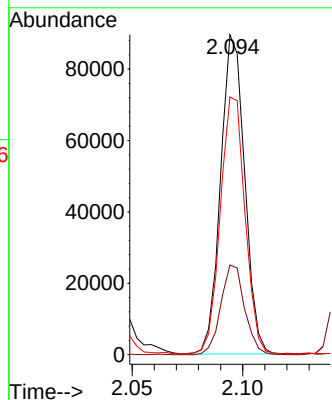
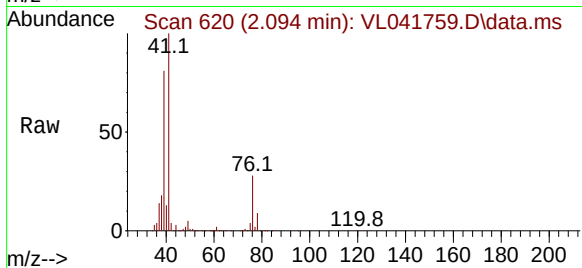
Tgt Ion: 41 Resp: 67596

Ion Ratio Lower Upper

41 100

76 27.9 22.3 33.5

39 82.6 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 9.515 ppbv

RT: 2.340 min Scan# 696

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

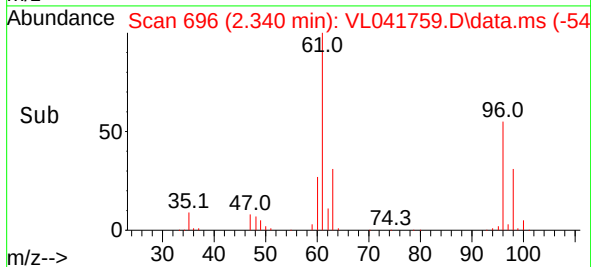
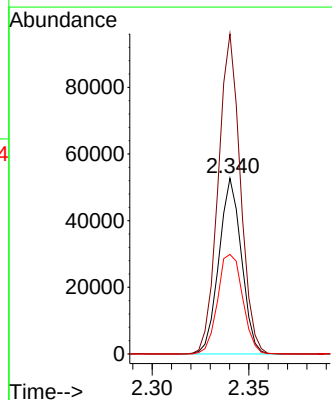
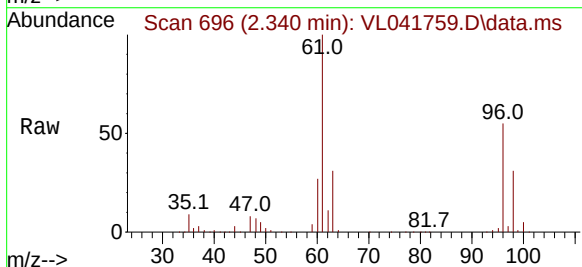
Tgt Ion: 96 Resp: 42651

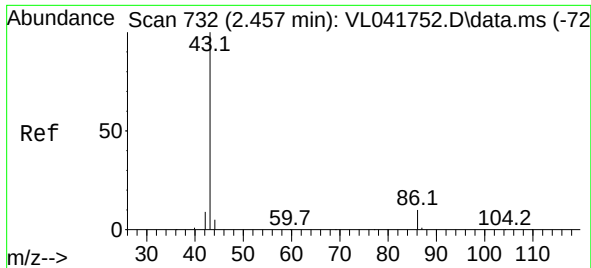
Ion Ratio Lower Upper

96 100

61 182.2 146.3 219.5

98 56.7 50.8 76.2

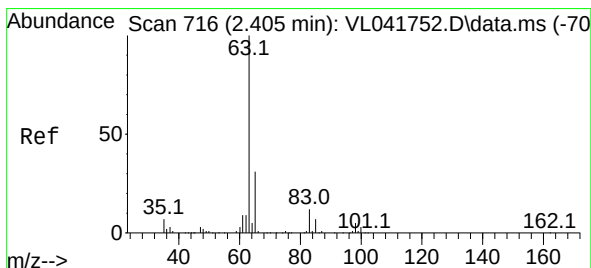
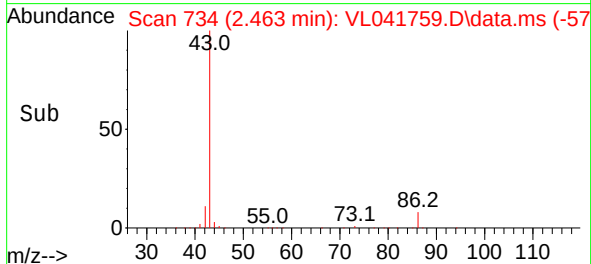
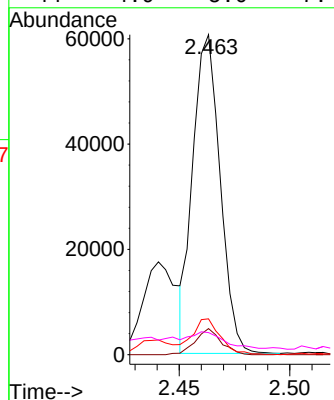
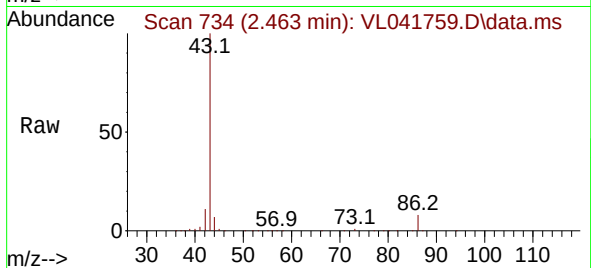




#23
 Vinyl Acetate
 Concen: 8.826 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

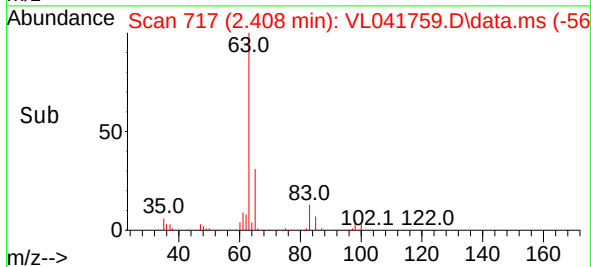
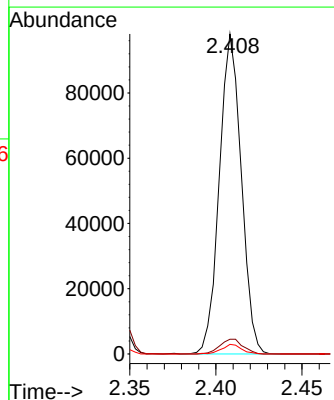
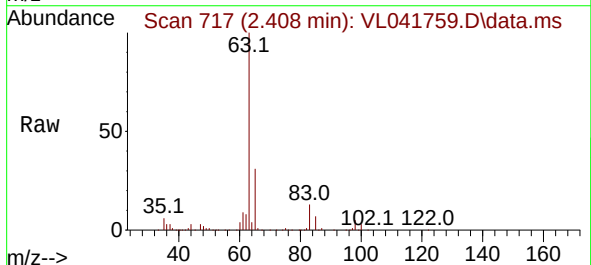
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL121624

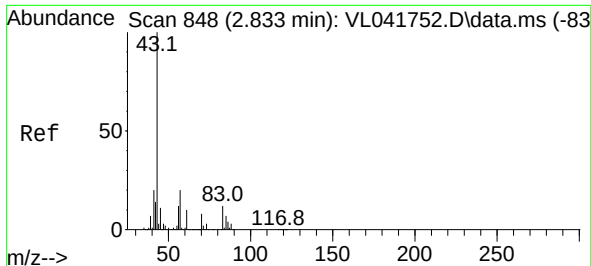
Tgt Ion:	43	Resp:	51812
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.6	10.0
42	11.2	8.2	12.2
44	4.9	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 9.589 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Tgt Ion:	63	Resp:	87006
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.4	4.2





#25

Ethyl Acetate

Concen: 9.965 ppbv

RT: 2.835 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

Tgt Ion: 43 Resp: 234370

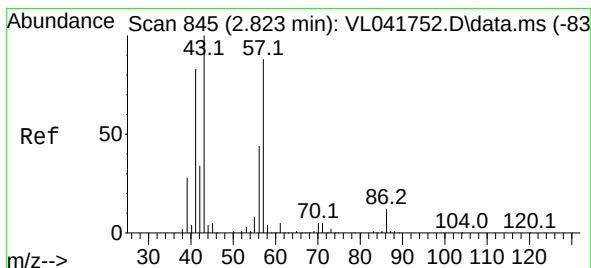
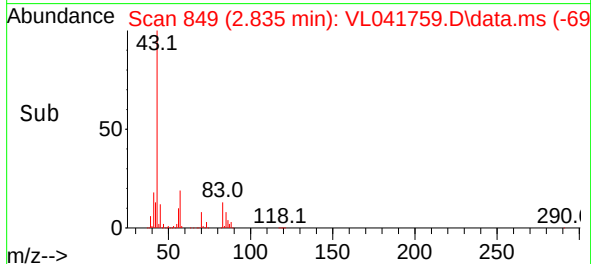
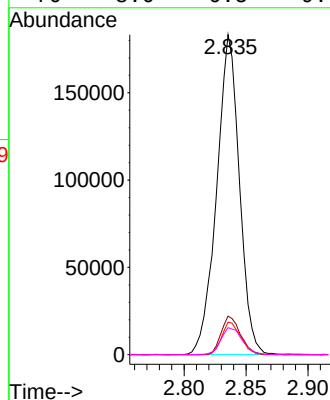
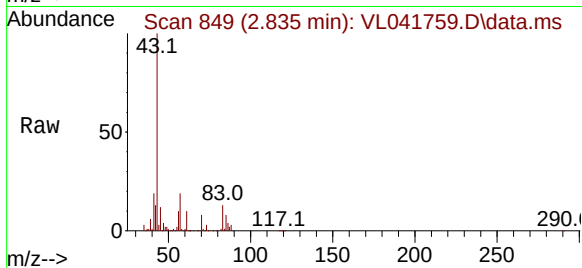
Ion Ratio Lower Upper

43 100

45 10.2 8.1 12.1

61 8.6 7.0 10.6

70 8.0 6.5 9.7



#26

Hexane

Concen: 9.752 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 57 Resp: 87034

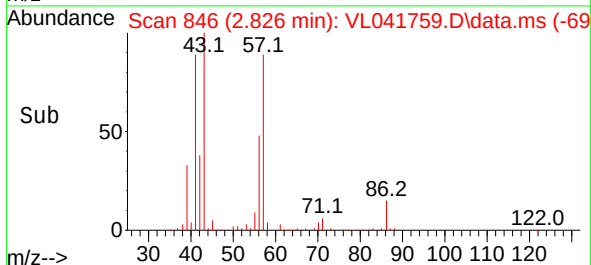
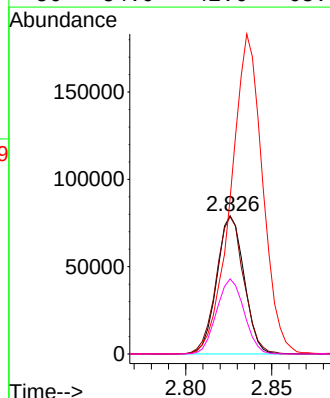
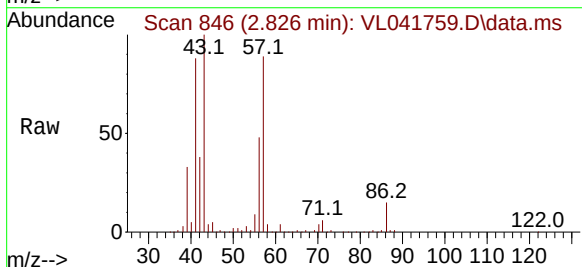
Ion Ratio Lower Upper

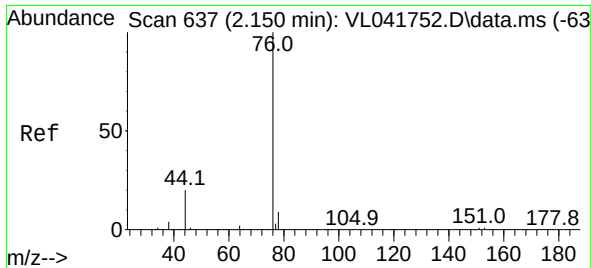
57 100

41 101.5 79.6 119.4

43 270.5 211.0 316.6

56 54.9 42.6 63.8

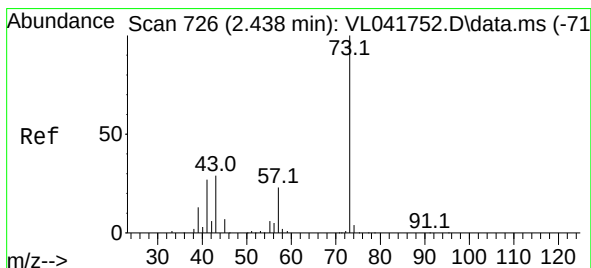
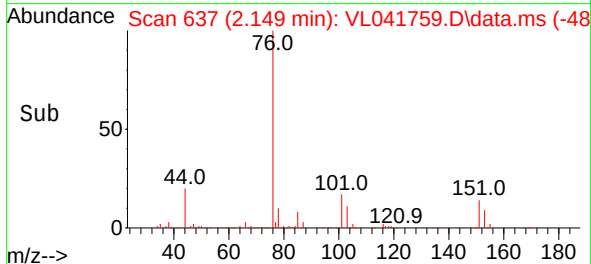
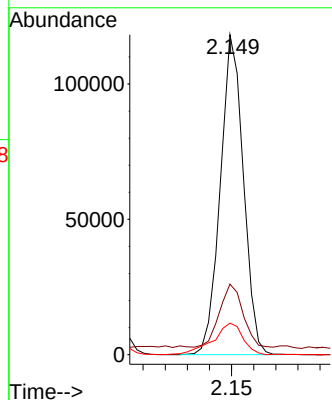
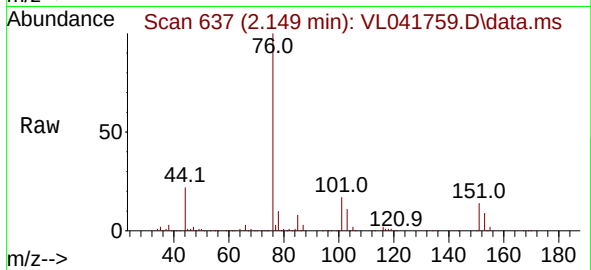




#27
Carbon Disulfide
Concen: 10.649 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

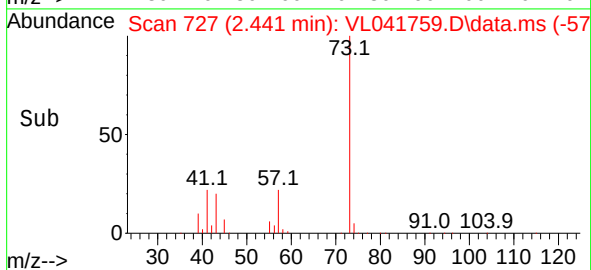
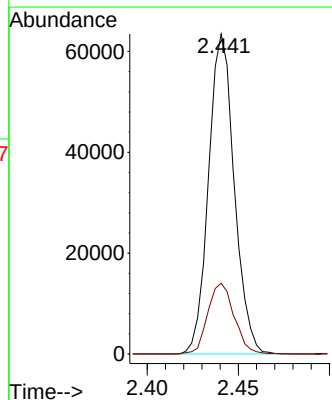
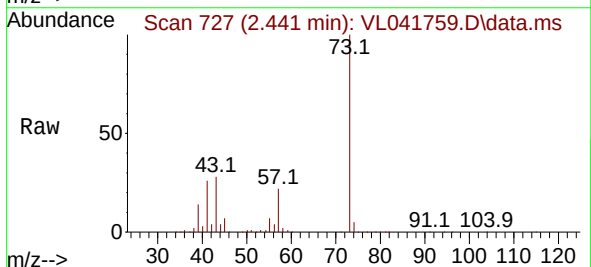
Instrument :
MSVOA_1
ClientSampleId :
ICVVL121624

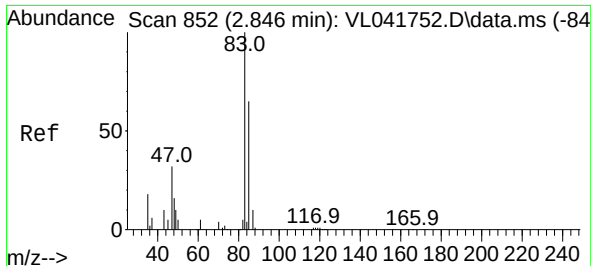
Tgt Ion: 76 Resp: 85650
Ion Ratio Lower Upper
76 100
44 22.3 17.6 26.4
78 12.9 10.2 15.4



#28
Methyl tert-Butyl Ether
Concen: 8.589 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 73 Resp: 62189
Ion Ratio Lower Upper
73 100
57 22.7 17.6 26.4





#29

Chloroform

Concen: 9.892 ppbv

RT: 2.848 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

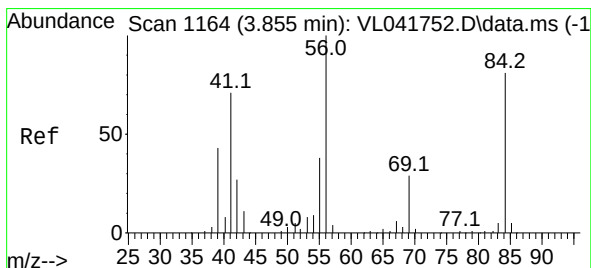
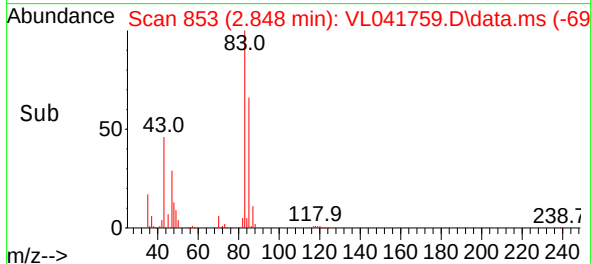
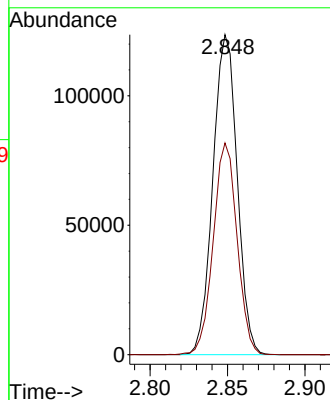
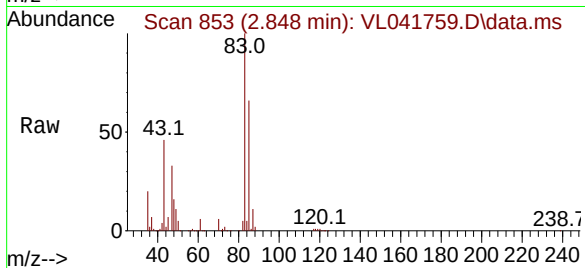
ICVVL121624

Tgt Ion: 83 Resp: 134541

Ion Ratio Lower Upper

83 100

85 66.2 51.8 77.6



#30

Cyclohexane

Concen: 9.912 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

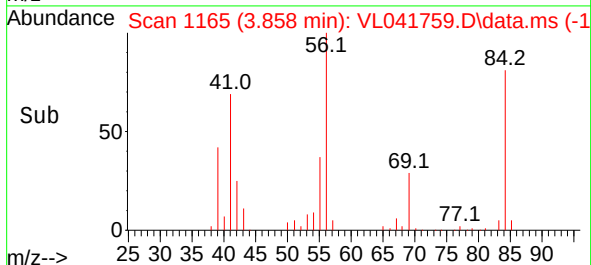
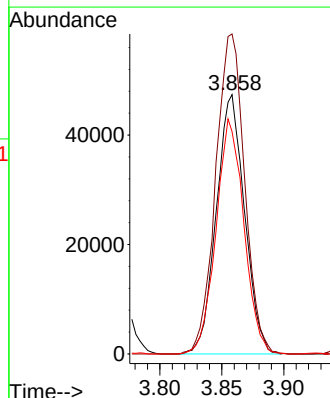
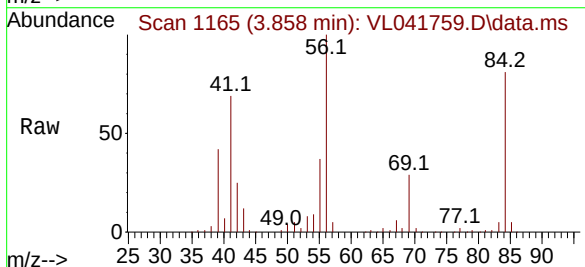
Tgt Ion: 84 Resp: 75274

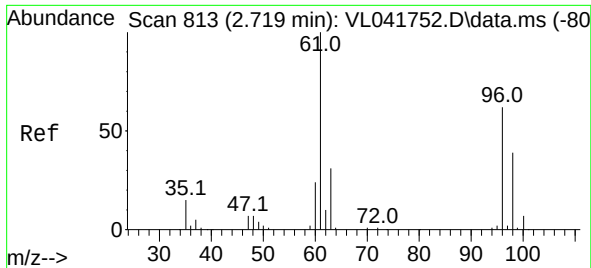
Ion Ratio Lower Upper

84 100

56 126.5 102.3 153.5

41 89.3 74.0 111.0



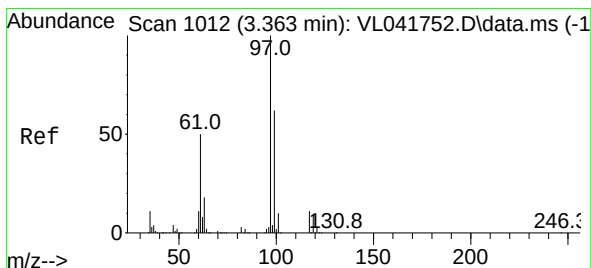
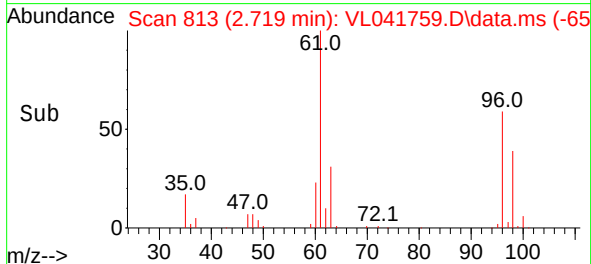
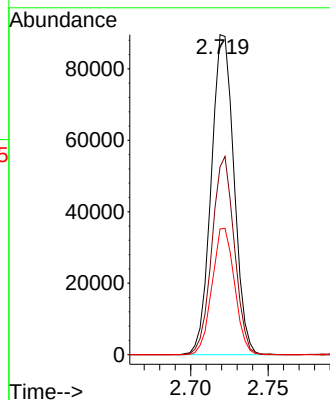
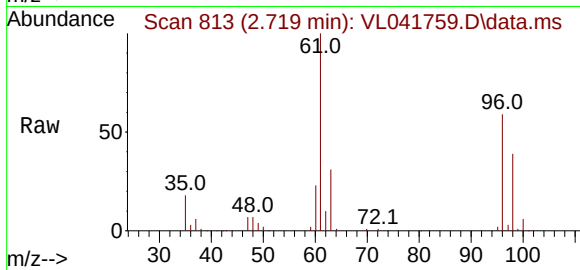


#31
 cis-1,2-Dichloroethene
 Concen: 9.935 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL121624

Tgt Ion: 61 Resp: 91628

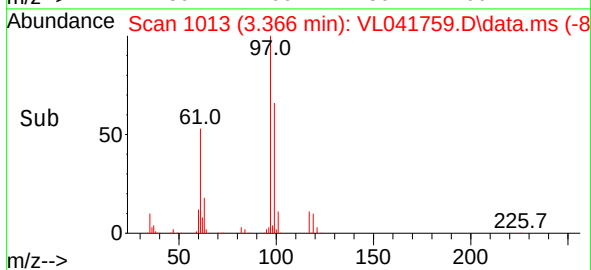
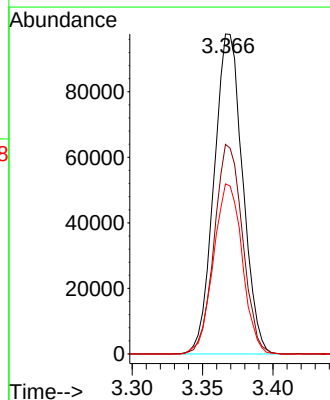
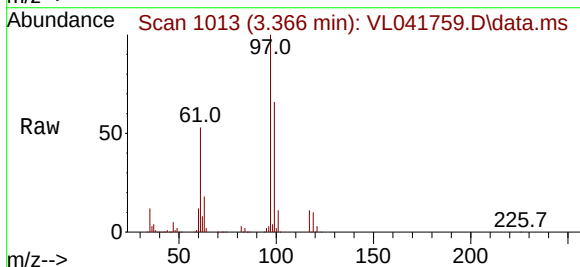
Ion	Ratio	Lower	Upper
61	100		
96	58.7	49.7	74.5
98	39.3	30.8	46.2

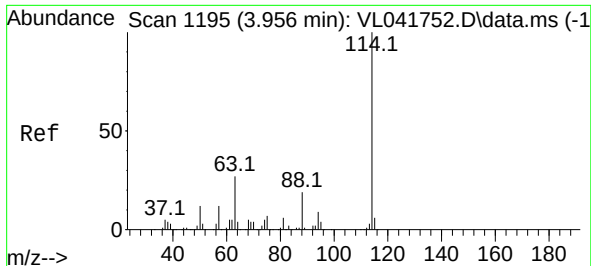


#32
 1,1,1-Trichloroethane
 Concen: 9.979 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Tgt Ion: 97 Resp: 137978

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.0	76.4
61	53.5	42.2	63.2

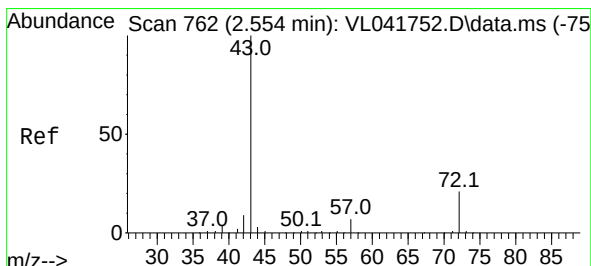
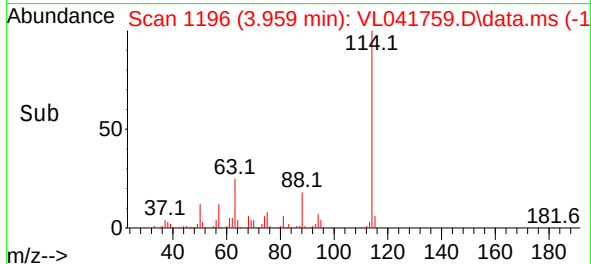
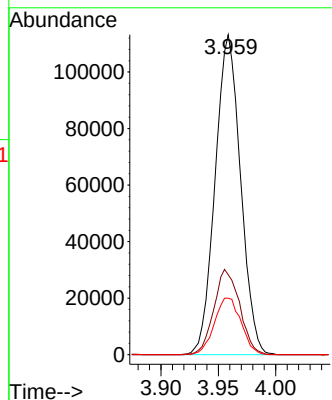
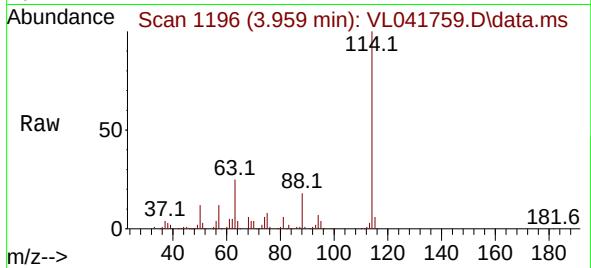




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

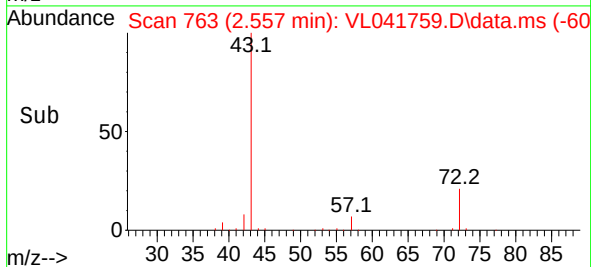
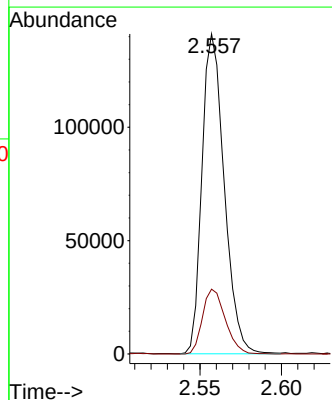
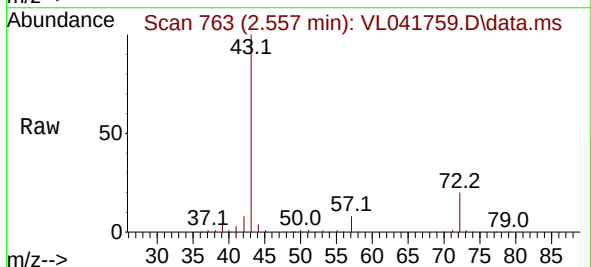
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

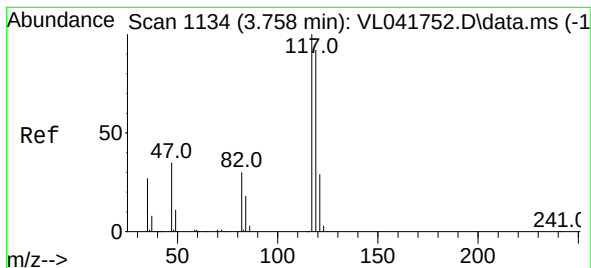
Tgt Ion:114 Resp: 174378
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.8 32.8
 88 18.6 14.8 22.2



#34
 2-Butanone
 Concen: 9.547 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Tgt Ion: 43 Resp: 133939
 Ion Ratio Lower Upper
 43 100
 72 20.7 16.8 25.2





#35

Carbon Tetrachloride

Concen: 11.191 ppbv

RT: 3.764 min Scan# 1136

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

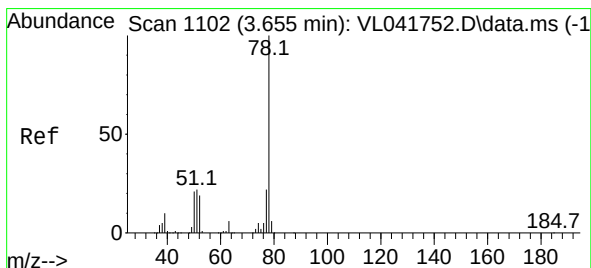
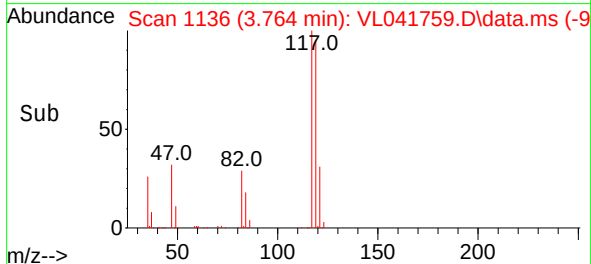
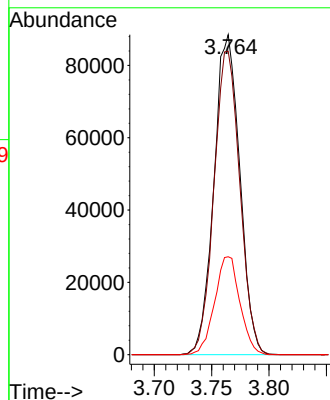
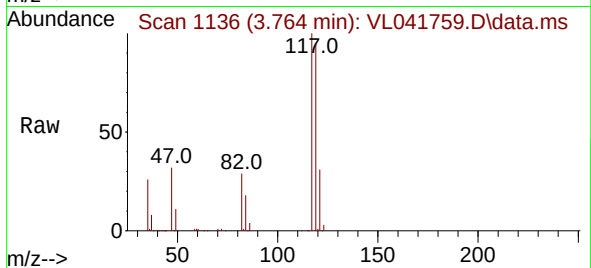
Tgt Ion:117 Resp: 138537

Ion Ratio Lower Upper

117 100

119 94.8 73.7 110.5

121 30.6 23.0 34.4



#36

Benzene

Concen: 9.787 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

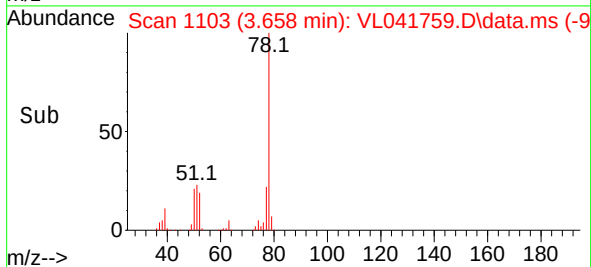
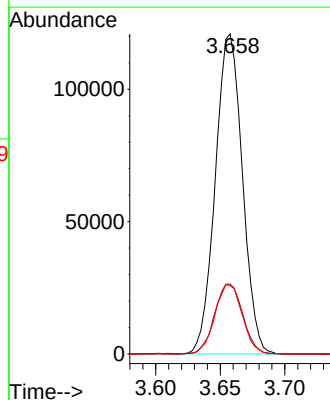
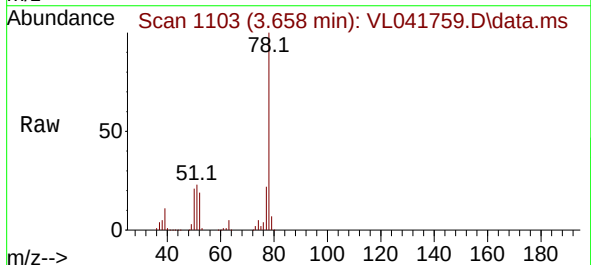
Tgt Ion: 78 Resp: 176537

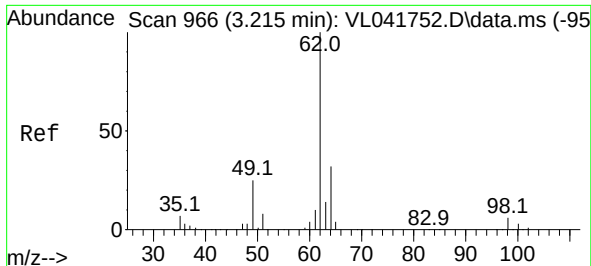
Ion Ratio Lower Upper

78 100

77 21.8 17.8 26.6

50 21.3 17.2 25.8

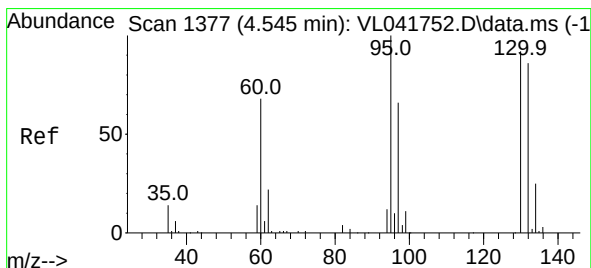
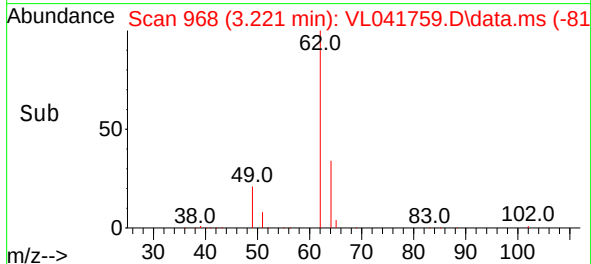
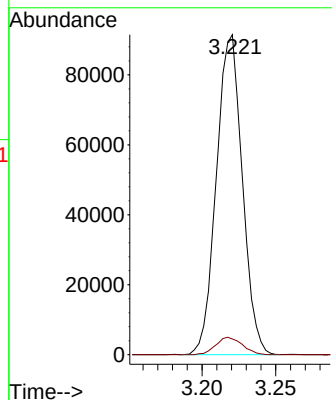
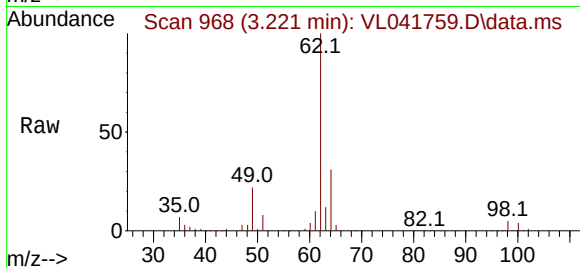




#37
1,2-Dichloroethane
Concen: 9.982 ppbv
RT: 3.221 min Scan# 90
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

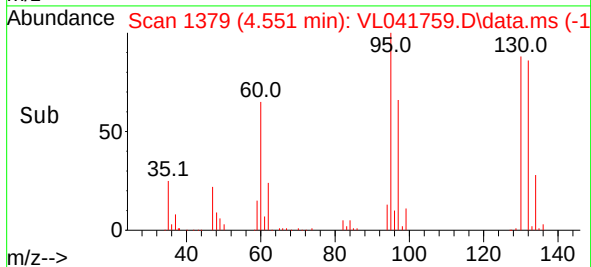
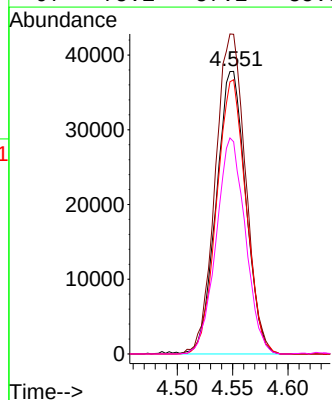
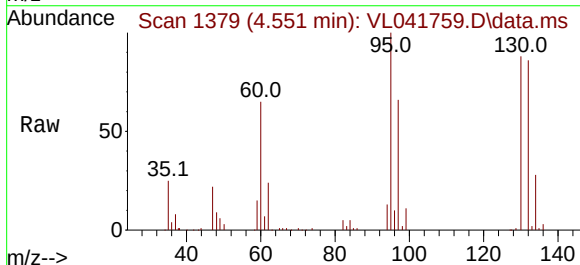
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

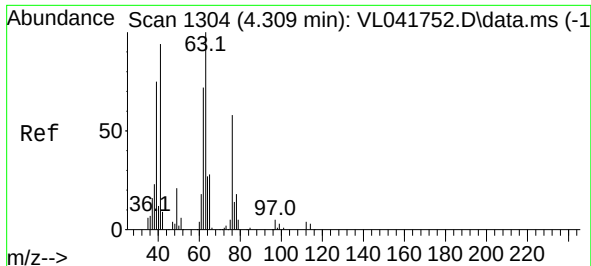
Tgt Ion: 62 Resp: 112037
Ion Ratio Lower Upper
62 100
98 5.5 4.7 7.1



#38
Trichloroethene
Concen: 9.156 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:130 Resp: 70108
Ion Ratio Lower Upper
130 100
95 113.2 87.0 130.6
132 97.0 75.0 112.6
97 75.1 57.2 85.8





#39

1,2-Dichloropropane

Concen: 9.761 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

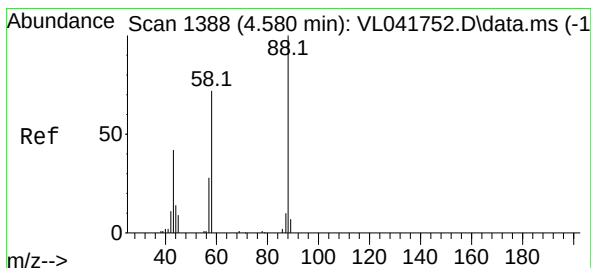
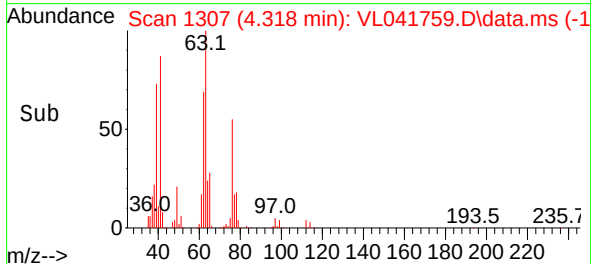
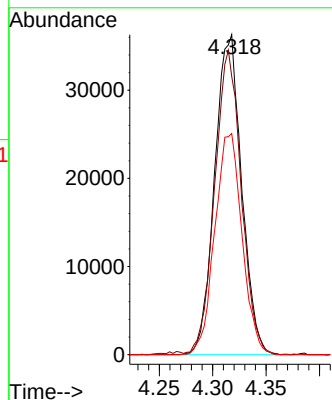
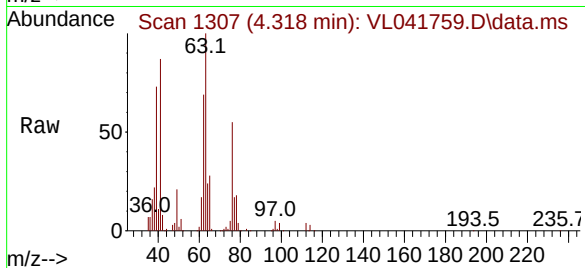
Tgt Ion: 63 Resp: 63675

Ion Ratio Lower Upper

63 100

41 87.0 75.3 112.9

62 69.1 57.3 85.9



#40

1,4-Dioxane

Concen: 9.693 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion: 88 Resp: 30891

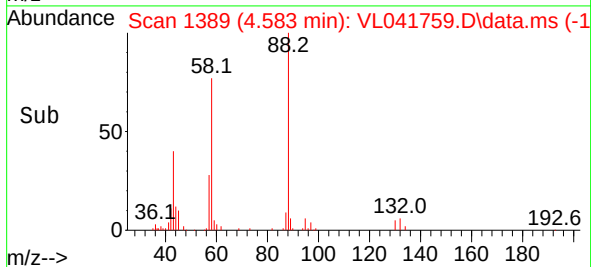
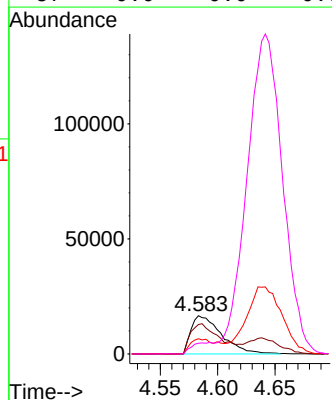
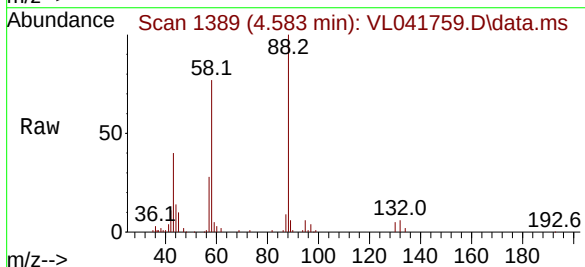
Ion Ratio Lower Upper

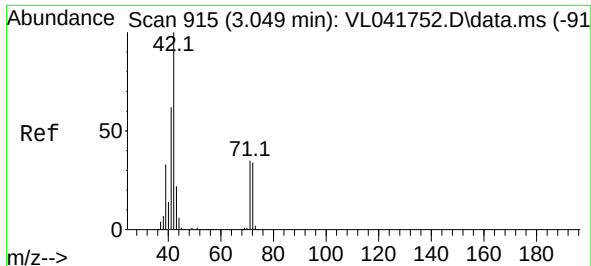
88 100

58 76.6 61.0 91.6

43 39.2 29.4 44.0

57 0.0 0.0 0.0

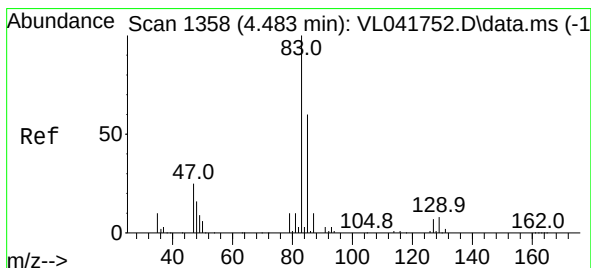
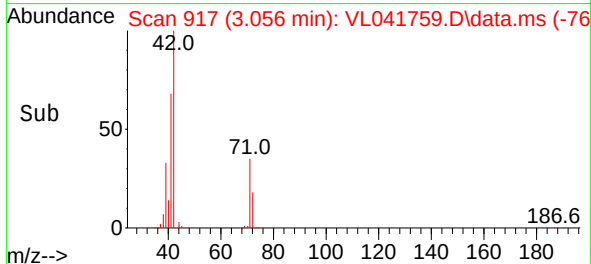
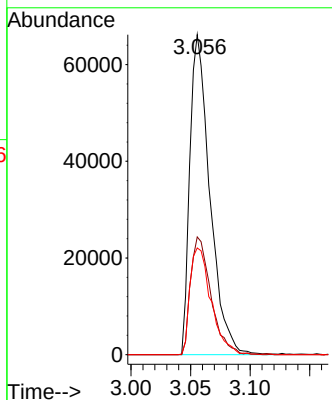
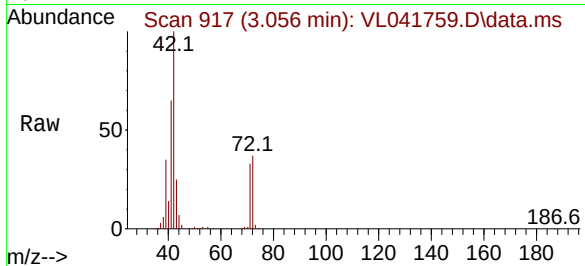




#41
Tetrahydrofuran
Concen: 9.857 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

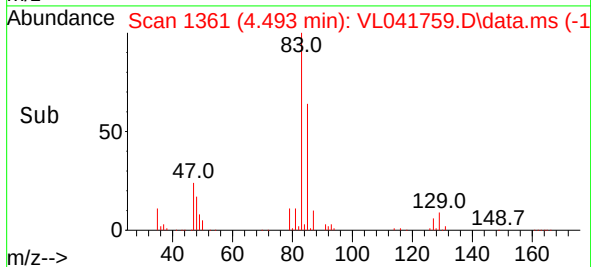
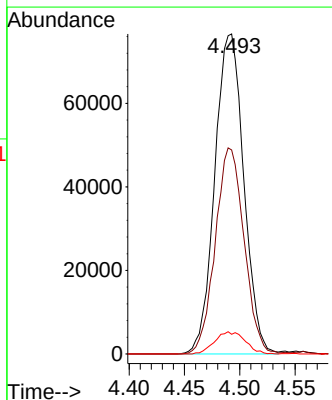
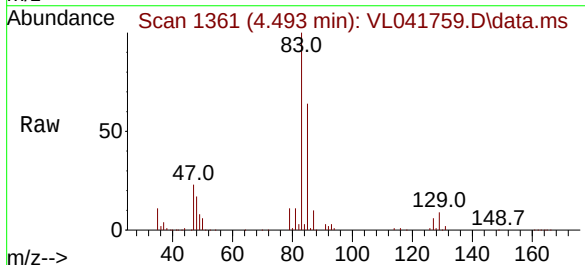
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

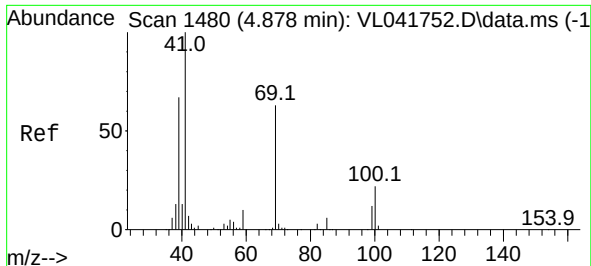
Tgt Ion: 42 Resp: 77472
Ion Ratio Lower Upper
42 100
72 37.5 29.1 43.7
71 35.4 28.4 42.6



#42
Bromodichloromethane
Concen: 10.821 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 83 Resp: 139717
Ion Ratio Lower Upper
83 100
85 63.7 48.0 72.0
127 6.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 10.229 ppbv

RT: 4.881 min Scan# 1481

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

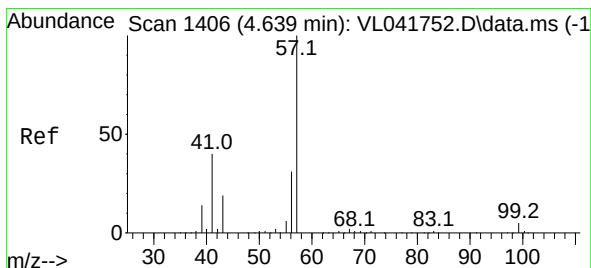
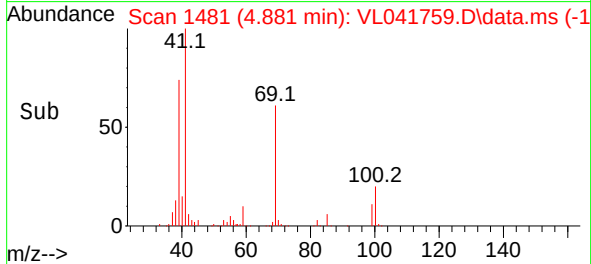
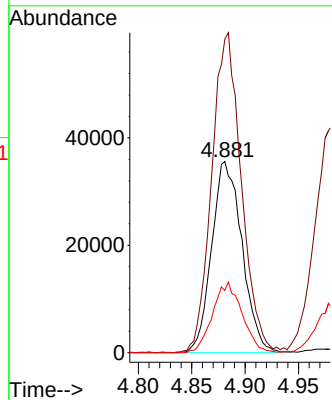
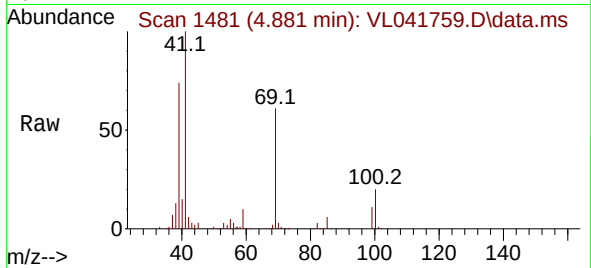
Tgt Ion: 69 Resp: 70299

Ion Ratio Lower Upper

69 100

41 162.5 130.3 195.5

100 35.8 28.3 42.5



#44

2,2,4-Trimethylpentane

Concen: 9.796 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

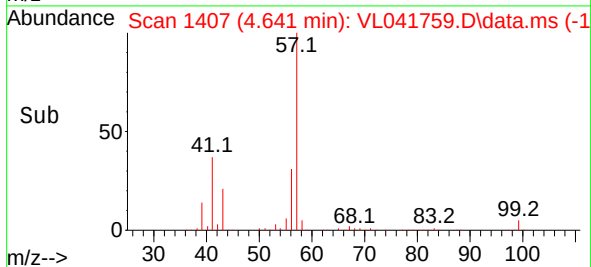
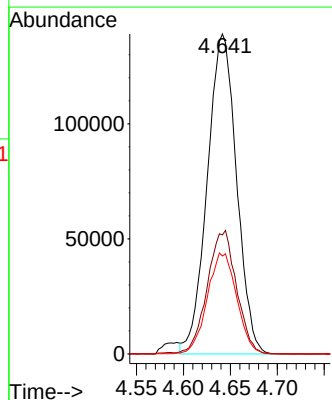
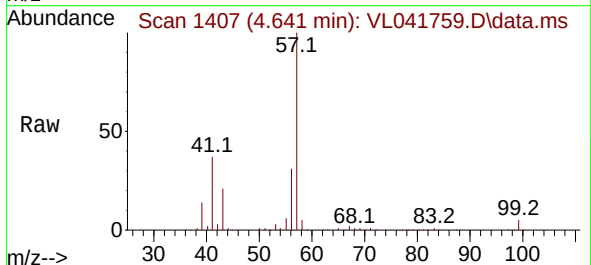
Tgt Ion: 57 Resp: 301772

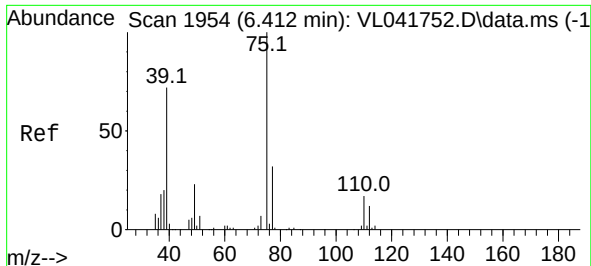
Ion Ratio Lower Upper

57 100

41 38.8 30.7 46.1

56 31.7 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 10.907 ppbv

RT: 6.415 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_1

ClientSampleId :

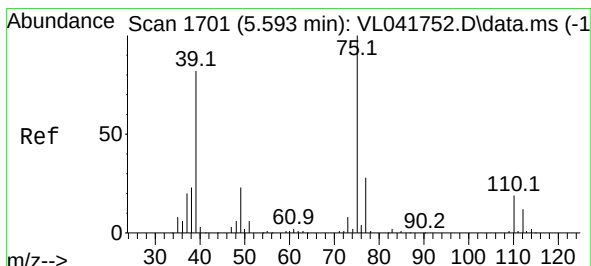
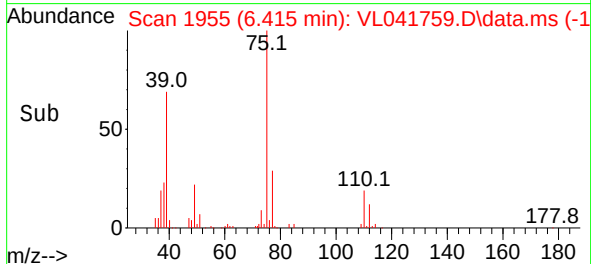
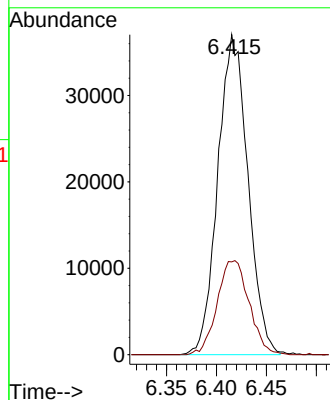
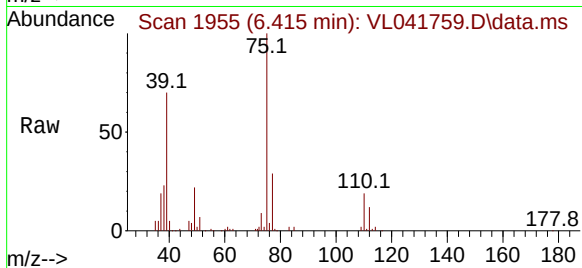
ICVVL121624

Tgt Ion: 75 Resp: 77534

Ion Ratio Lower Upper

75 100

77 29.0 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 10.617 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

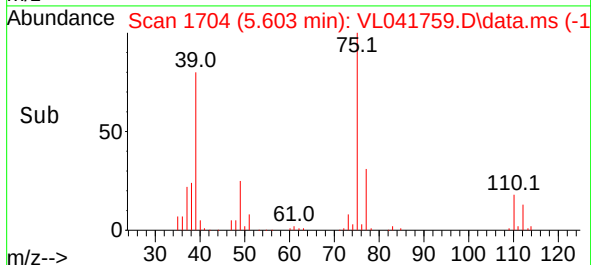
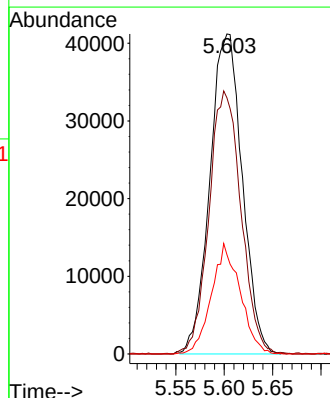
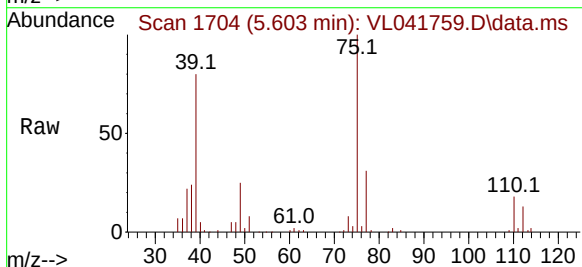
Tgt Ion: 75 Resp: 95812

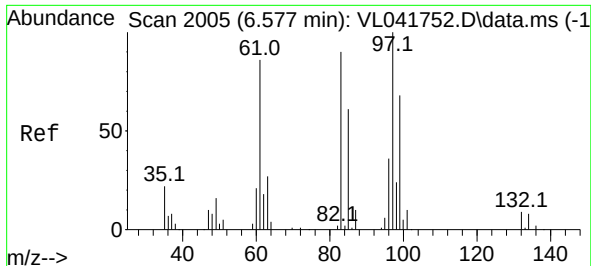
Ion Ratio Lower Upper

75 100

39 79.5 65.2 97.8

77 30.9 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 5.541 ppbv

RT: 6.587 min Scan# 2005

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_1

ClientSampleId :

ICVVL121624

Tgt Ion: 97 Resp: 37758

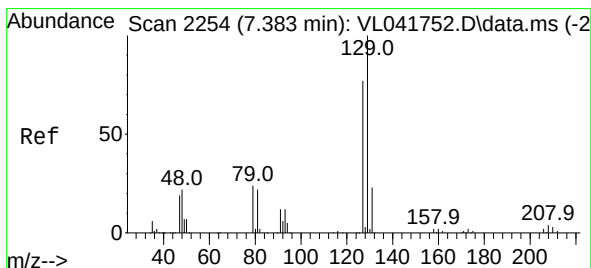
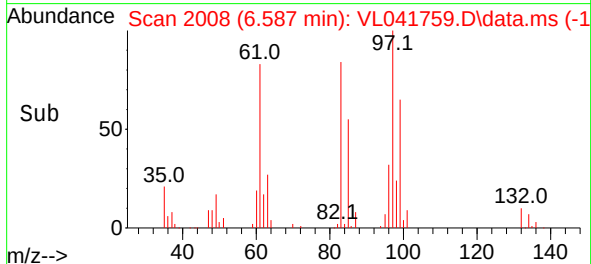
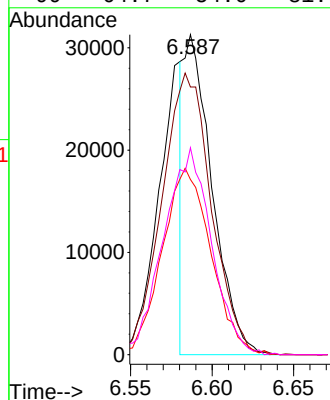
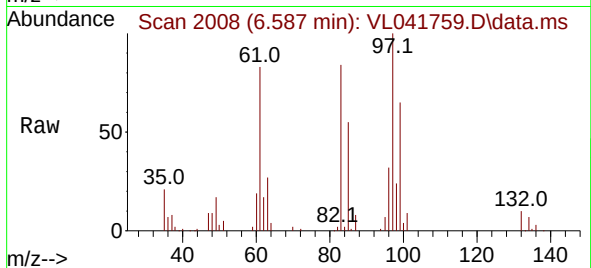
Ion Ratio Lower Upper

97 100

83 83.7 72.3 108.5

85 54.8 48.5 72.7

99 64.7 54.0 81.0



#48

Dibromochloromethane

Concen: 11.326 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.006 min

Lab File: VL041759.D

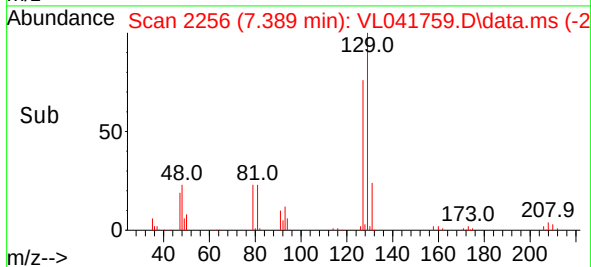
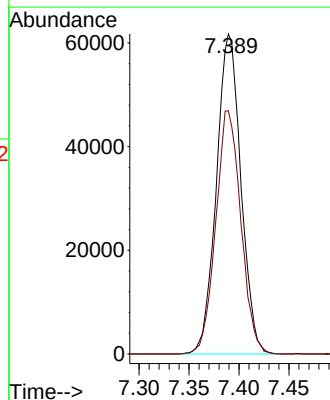
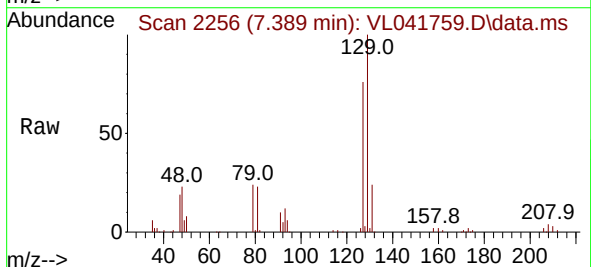
Acq: 16 Dec 2024 18:59

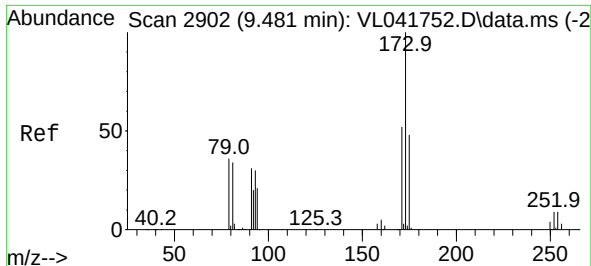
Tgt Ion: 129 Resp: 105378

Ion Ratio Lower Upper

129 100

127 77.8 38.8 116.3





#49

Bromoform

Concen: 11.682 ppbv

RT: 9.487 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

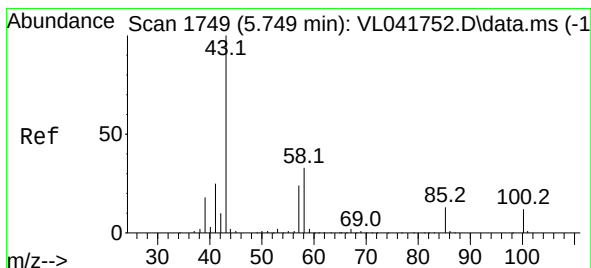
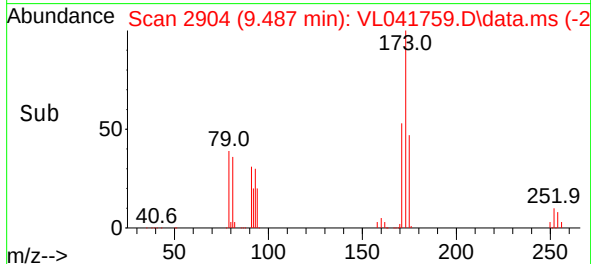
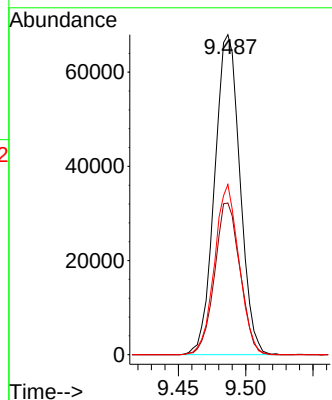
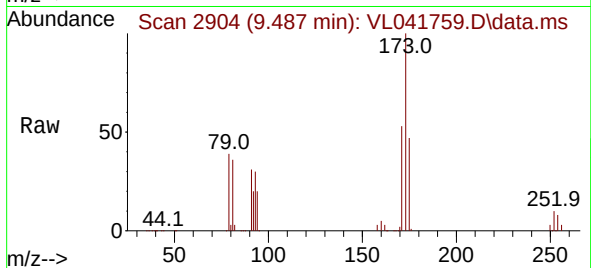
Tgt Ion:173 Resp: 88971

Ion Ratio Lower Upper

173 100

175 47.6 38.2 57.2

171 51.4 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 9.980 ppbv

RT: 5.758 min Scan# 1752

Delta R.T. 0.009 min

Lab File: VL041759.D

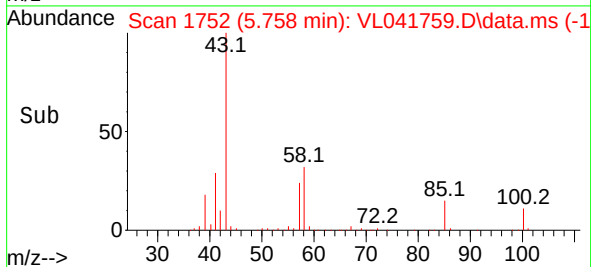
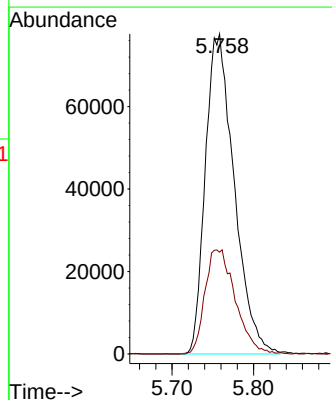
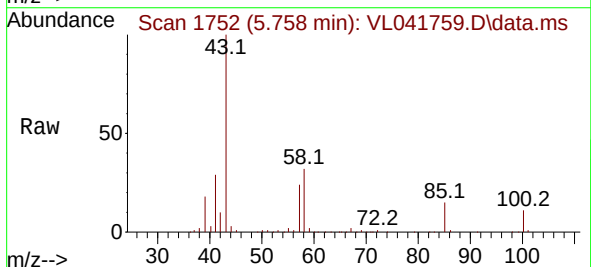
Acq: 16 Dec 2024 18:59

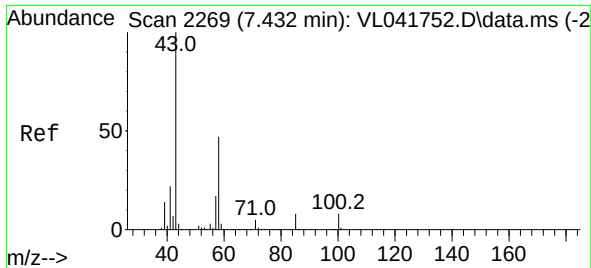
Tgt Ion: 43 Resp: 190637

Ion Ratio Lower Upper

43 100

58 34.3 26.8 40.2

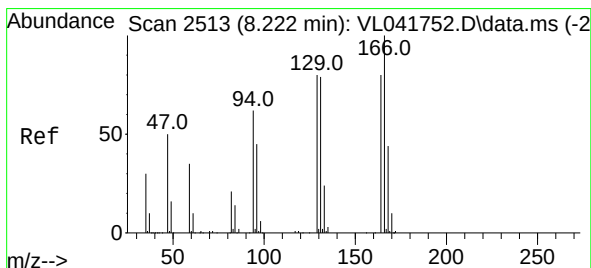
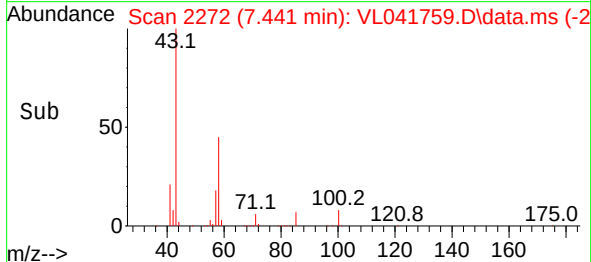
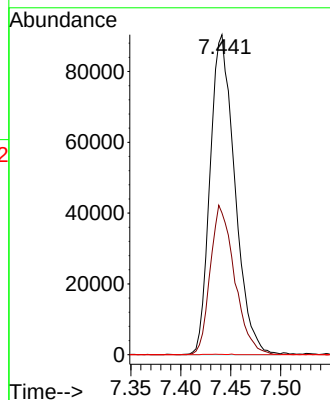
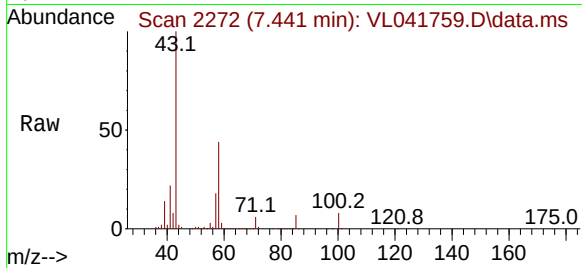




#51
2-Hexanone
Concen: 10.053 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

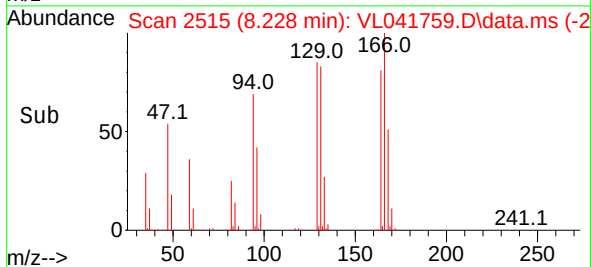
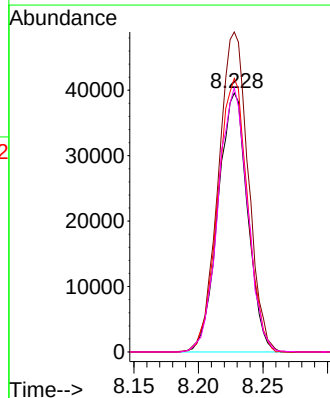
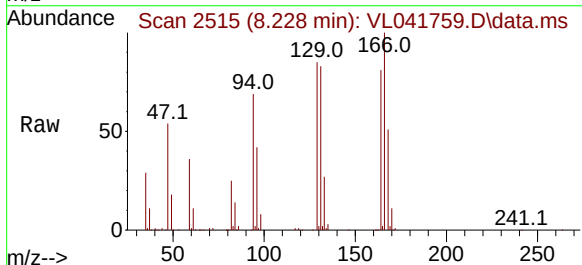
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

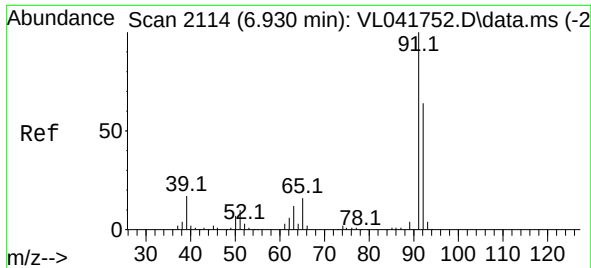
Tgt Ion: 43 Resp: 155646
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.351 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:164 Resp: 62782
Ion Ratio Lower Upper
164 100
166 123.4 99.8 149.6
129 105.6 79.6 119.4
131 102.0 78.6 117.8

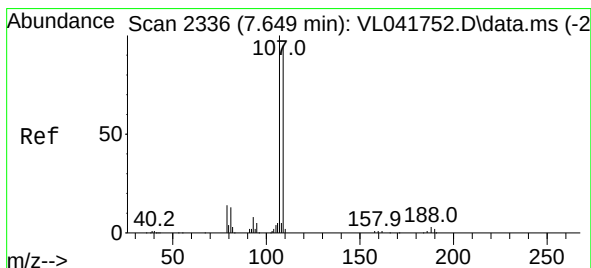
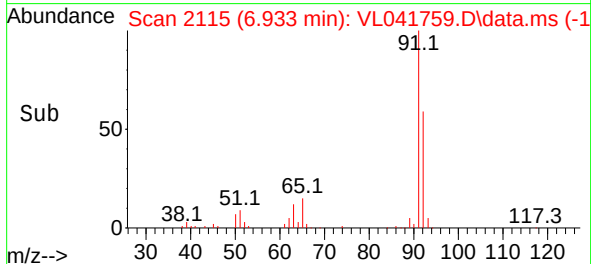
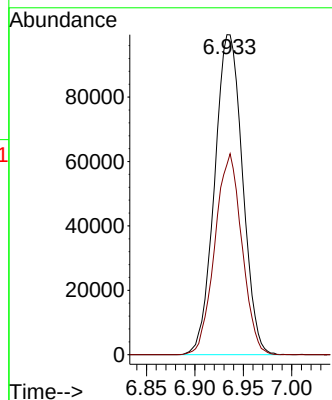
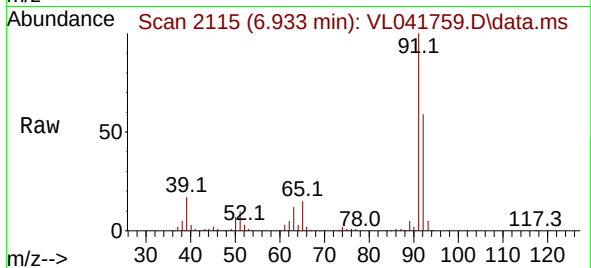




#53
Toluene
Concen: 9.768 ppbv
RT: 6.933 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

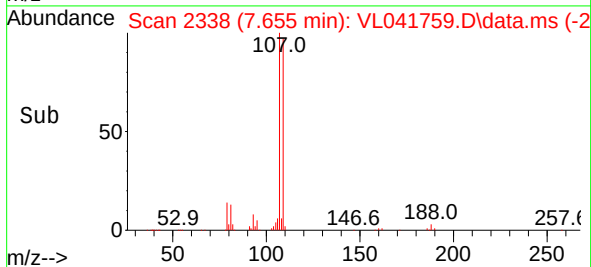
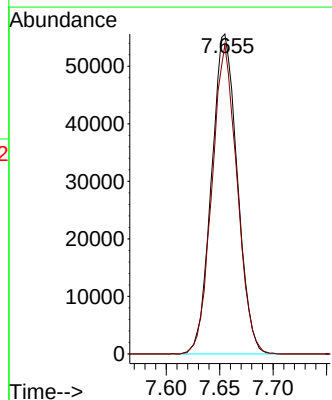
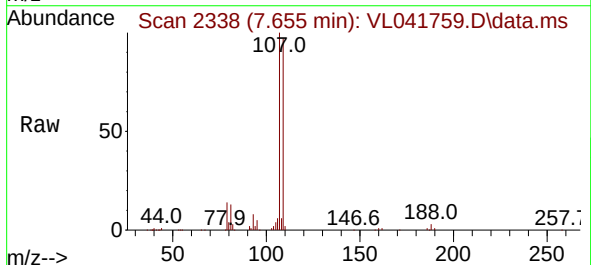
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

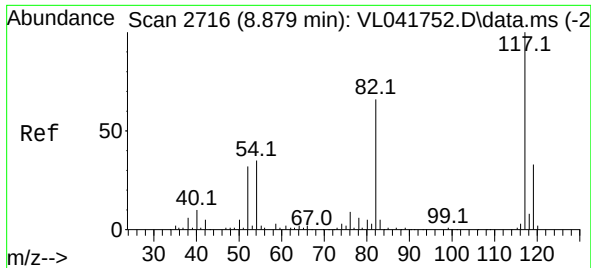
Tgt Ion: 91 Resp: 199754
Ion Ratio Lower Upper
91 100
92 60.8 47.9 71.9



#54
1,2-Dibromoethane
Concen: 9.952 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion: 107 Resp: 93439
Ion Ratio Lower Upper
107 100
109 96.6 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2716

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_1

ClientSampleId :

ICVVL121624

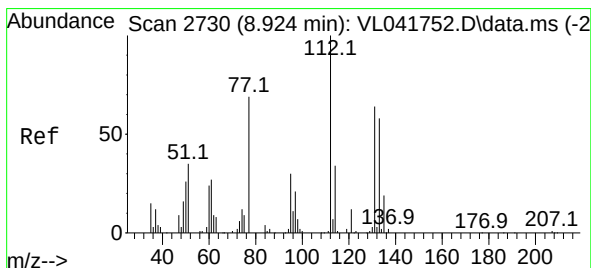
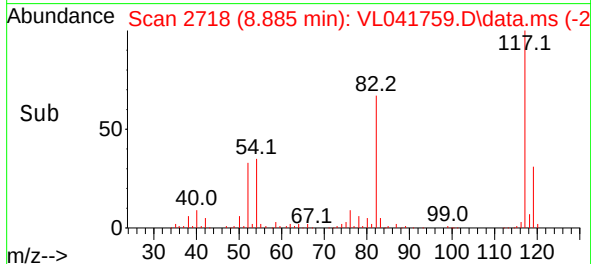
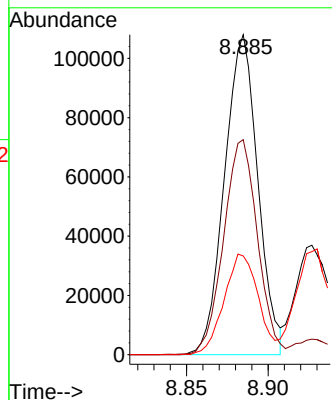
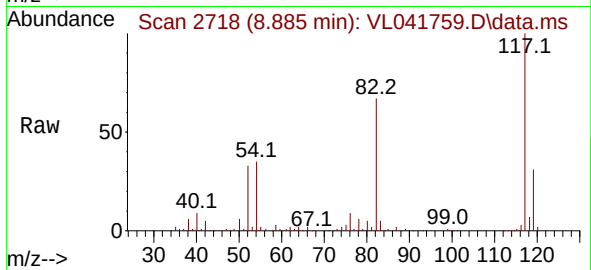
Tgt Ion:117 Resp: 153443

Ion Ratio Lower Upper

117 100

82 73.4 53.8 80.8

119 32.8 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 10.558 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

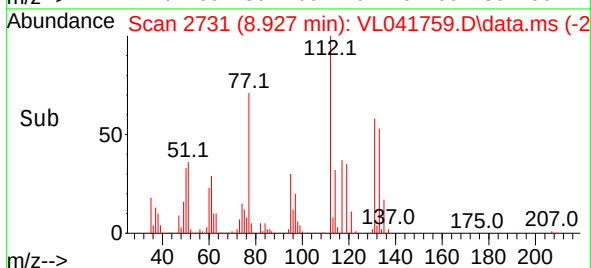
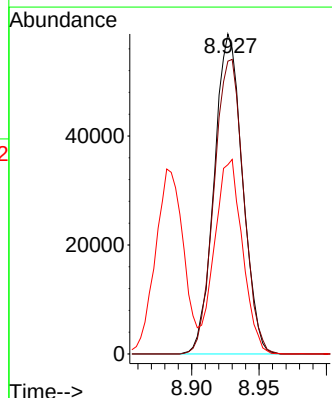
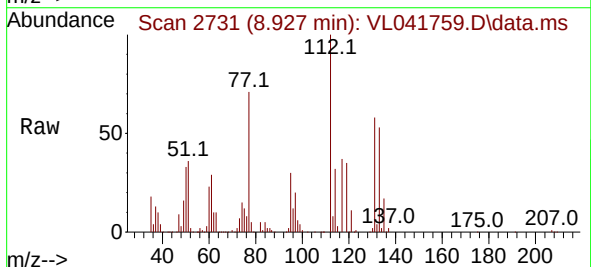
Tgt Ion:131 Resp: 85883

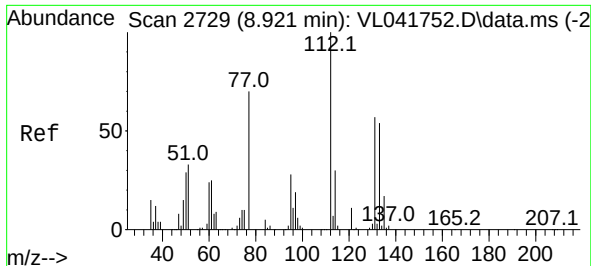
Ion Ratio Lower Upper

131 100

133 95.7 76.8 115.2

119 60.2 49.0 73.6





#57

Chlorobenzene

Concen: 9.888 ppbv

RT: 8.924 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

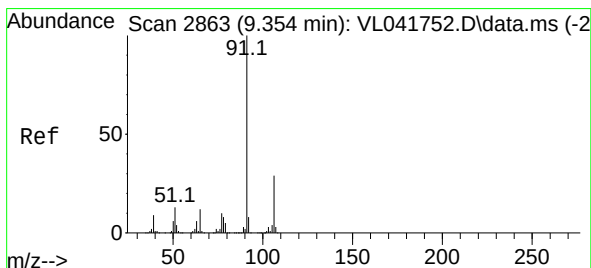
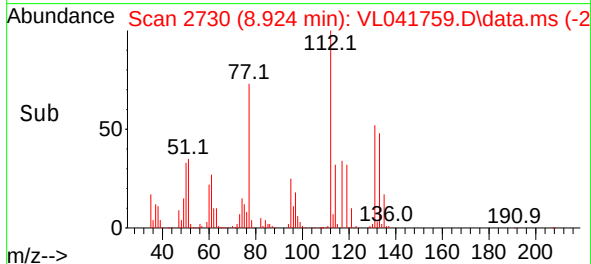
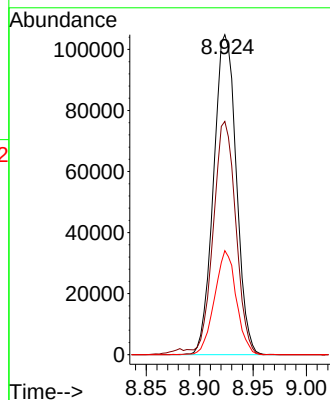
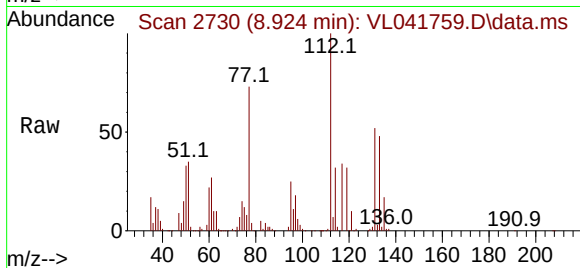
Tgt Ion:112 Resp: 155257

Ion Ratio Lower Upper

112 100

77 72.9 57.4 86.0

114 32.5 27.4 33.4



#58

Ethyl Benzene

Concen: 10.308 ppbv

RT: 9.357 min Scan# 2864

Delta R.T. 0.003 min

Lab File: VL041759.D

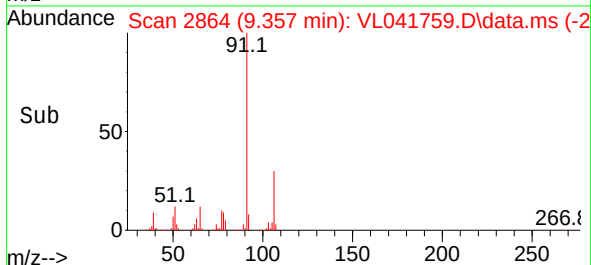
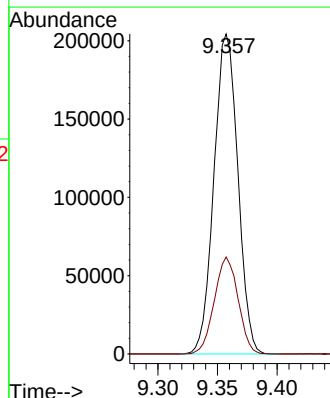
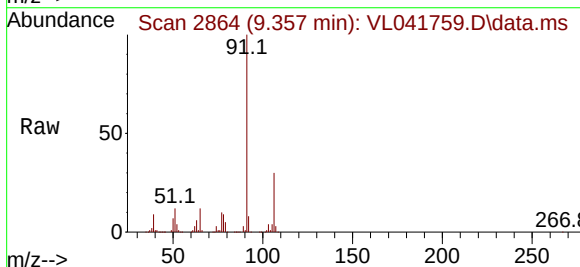
Acq: 16 Dec 2024 18:59

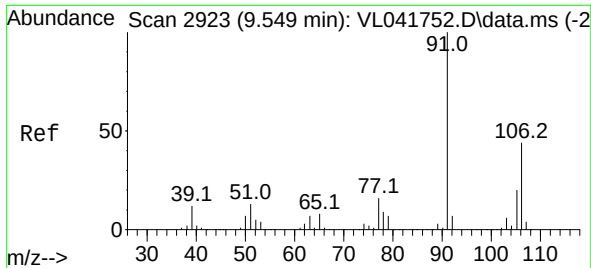
Tgt Ion: 91 Resp: 284770

Ion Ratio Lower Upper

91 100

106 30.3 23.5 35.3





#59

m/p-Xylene

Concen: 10.735 ppbv

RT: 9.555 min Scan# 2923

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

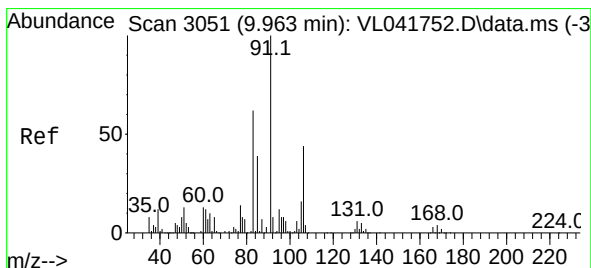
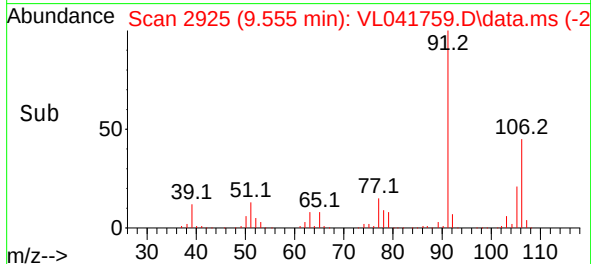
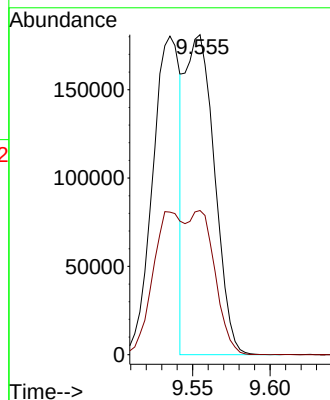
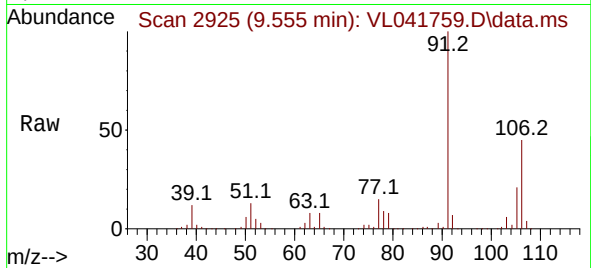
ICVVL121624

Tgt Ion: 91 Resp: 238458

Ion Ratio Lower Upper

91 100

106 87.6 0.0 0.0#



#60

o-Xylene

Concen: 10.304 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL041759.D

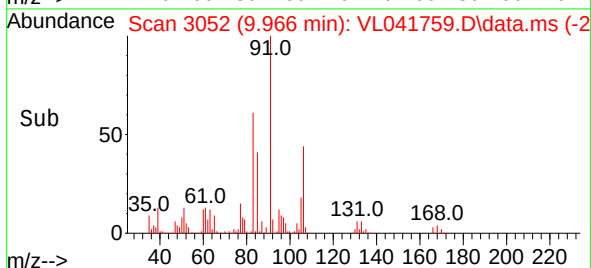
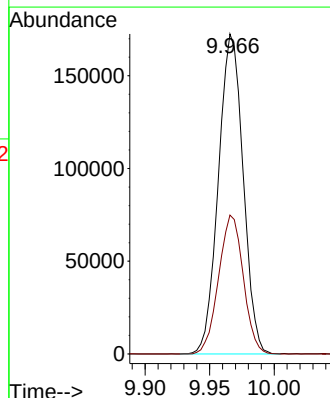
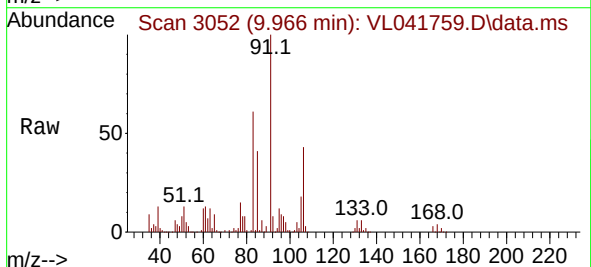
Acq: 16 Dec 2024 18:59

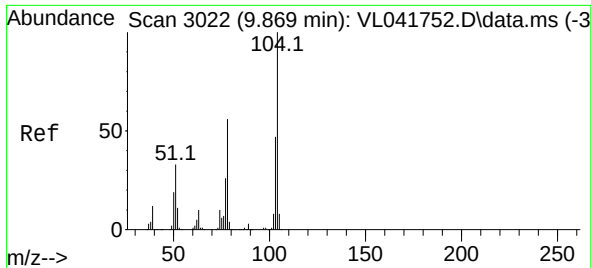
Tgt Ion: 91 Resp: 229517

Ion Ratio Lower Upper

91 100

106 43.3 21.1 63.4





#61

Styrene

Concen: 11.093 ppbv

RT: 9.875 min Scan# 3022

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

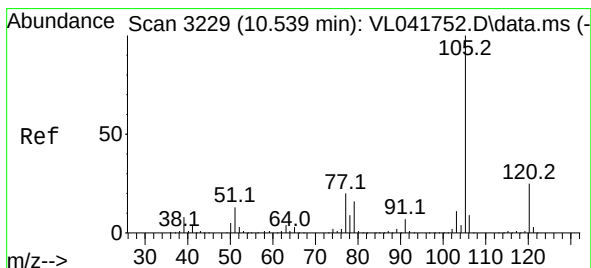
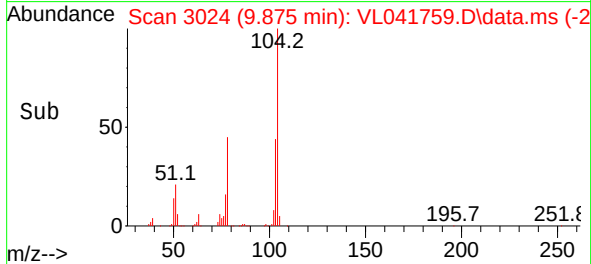
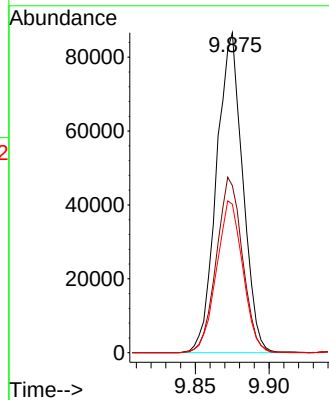
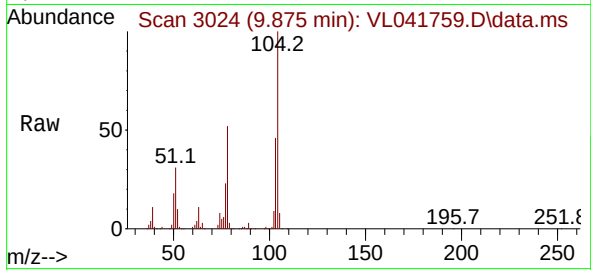
Tgt Ion:104 Resp: 106841

Ion Ratio Lower Upper

104 100

78 54.8 43.8 65.6

103 47.9 37.8 56.6



#62

Isopropylbenzene

Concen: 10.425 ppbv

RT: 10.542 min Scan# 3230

Delta R.T. 0.003 min

Lab File: VL041759.D

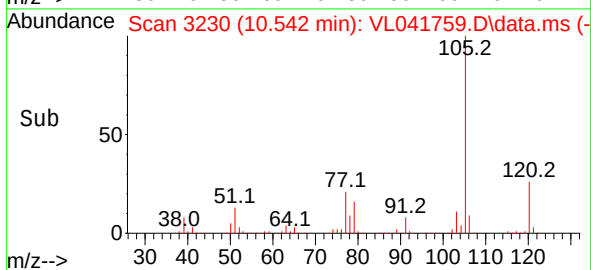
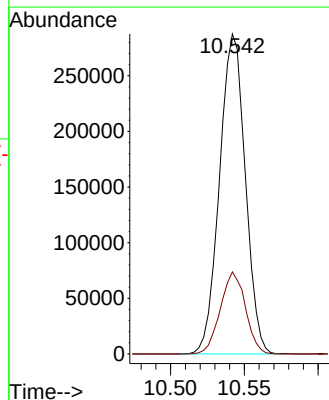
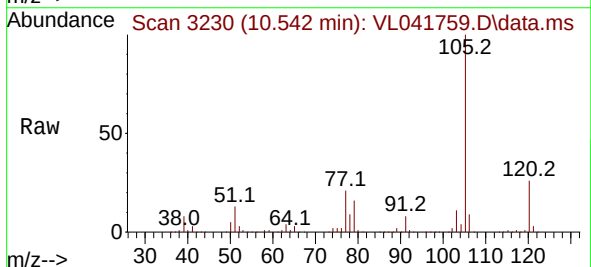
Acq: 16 Dec 2024 18:59

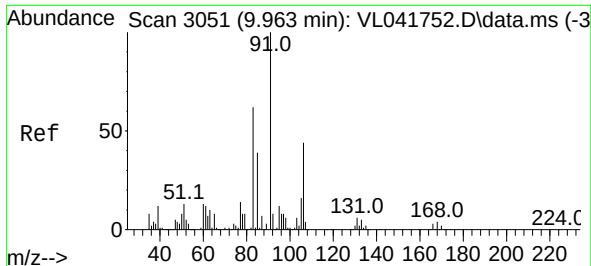
Tgt Ion:105 Resp: 348887

Ion Ratio Lower Upper

105 100

120 25.0 19.8 29.8

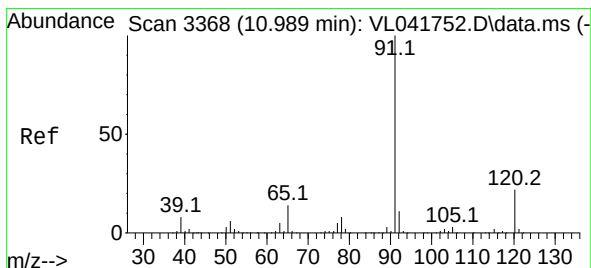
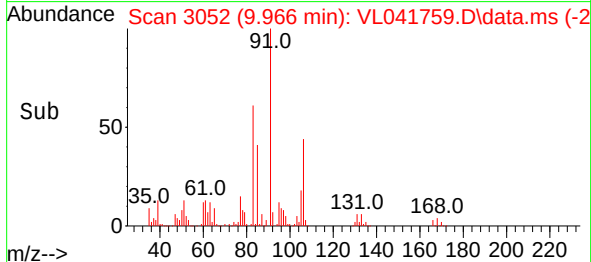
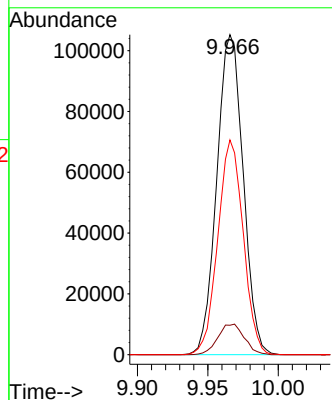
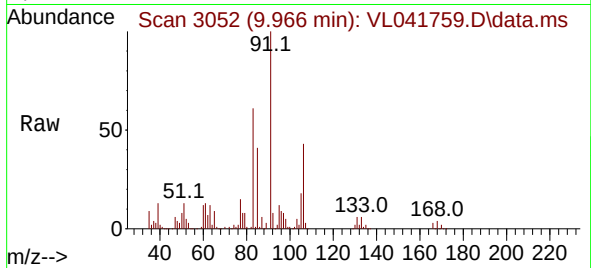




#63
1,1,2,2-Tetrachloroethane
Concen: 9.865 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

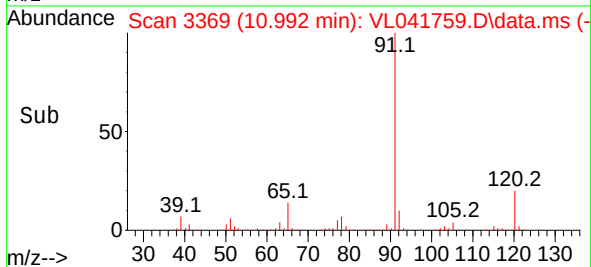
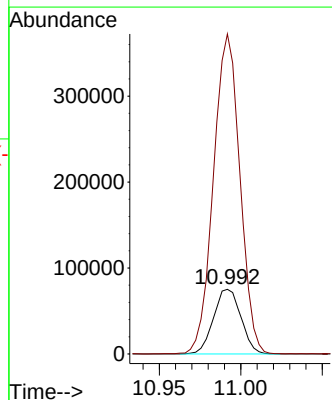
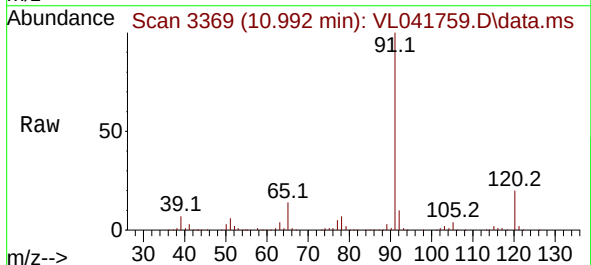
Instrument :
MSVOA_1
ClientSampleId :
ICVVL121624

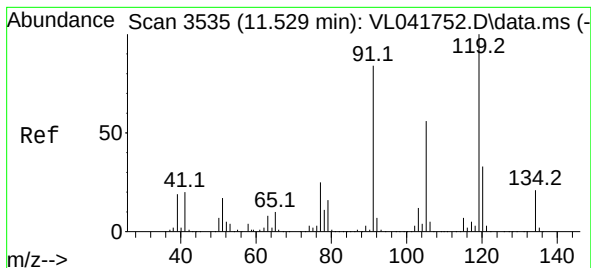
Tgt Ion: 83 Resp: 137547
Ion Ratio Lower Upper
83 100
131 9.6 4.9 14.7
85 64.6 32.0 96.2



#64
n-propylbenzene
Concen: 10.384 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:120 Resp: 87865
Ion Ratio Lower Upper
120 100
91 479.0 387.3 580.9





#65

tert-Butylbenzene

Concen: 10.194 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

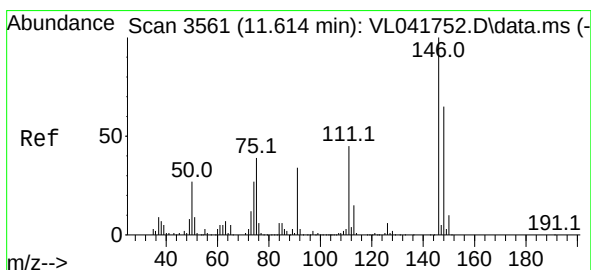
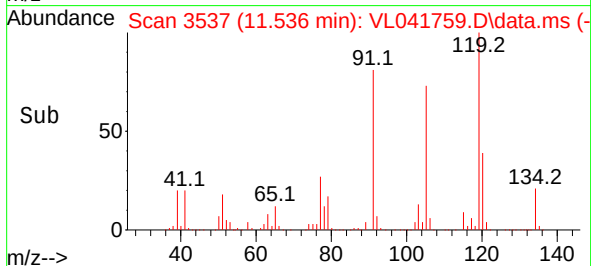
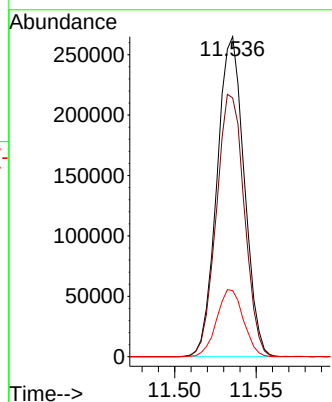
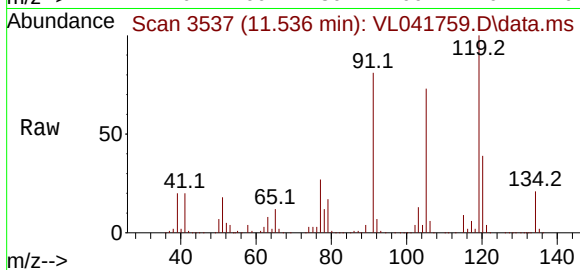
Tgt Ion:119 Resp: 307790

Ion Ratio Lower Upper

119 100

91 84.2 67.0 100.4

134 20.5 16.5 24.7



#66

Benzyl Chloride

Concen: 11.054 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

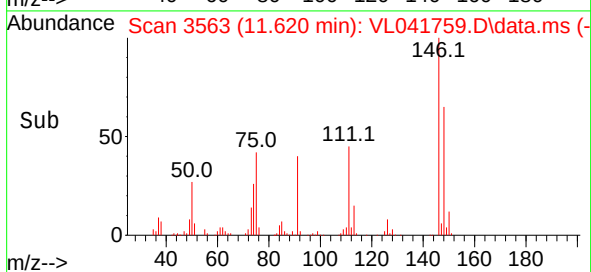
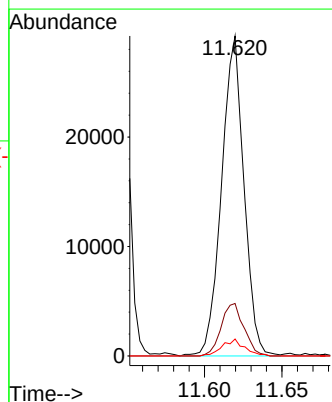
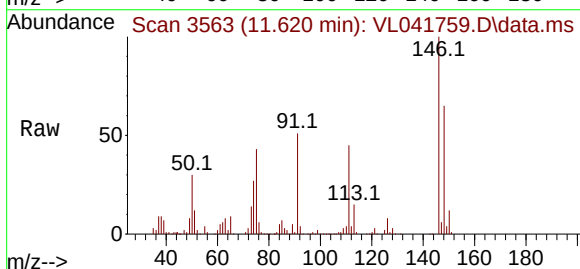
Tgt Ion: 91 Resp: 29398

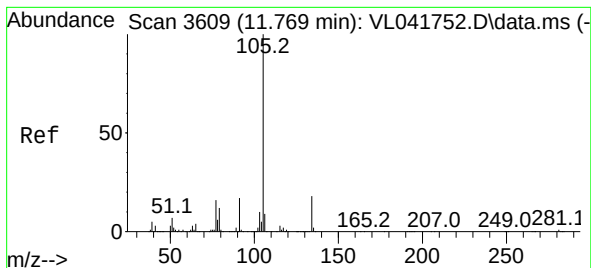
Ion Ratio Lower Upper

91 100

126 16.7 13.9 20.9

128 5.2 4.4 6.6





#67

sec-Butylbenzene

Concen: 10.304 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_1

ClientSampleId :

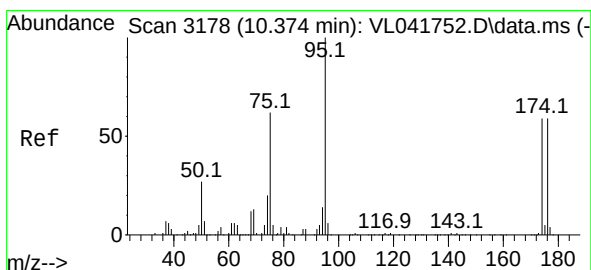
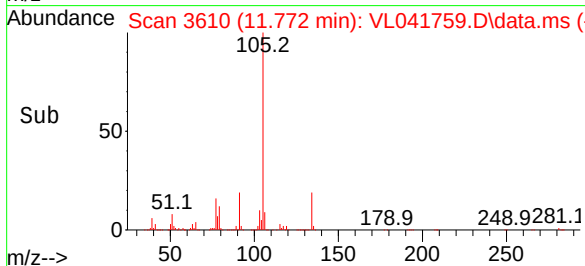
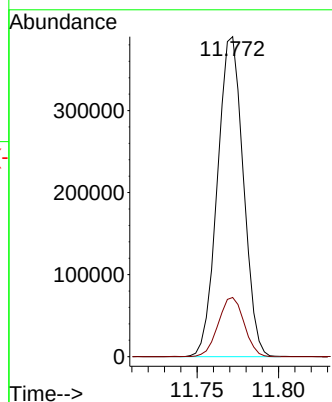
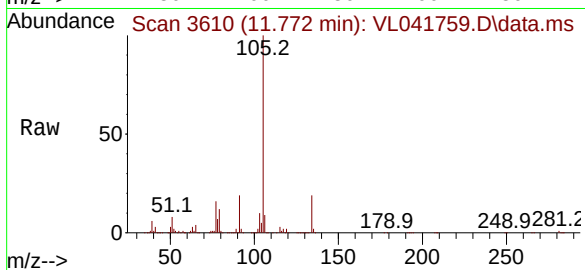
ICVVL121624

Tgt Ion:105 Resp: 430521

Ion Ratio Lower Upper

105 100

134 18.5 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.166 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

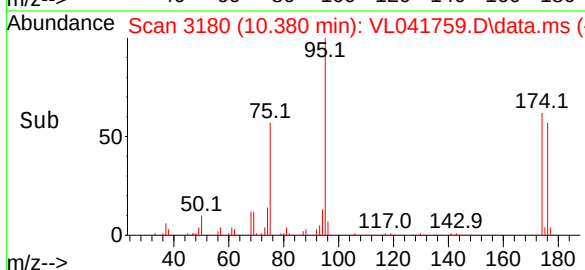
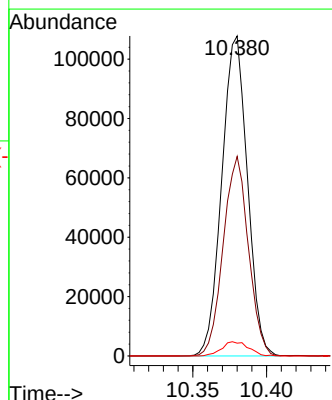
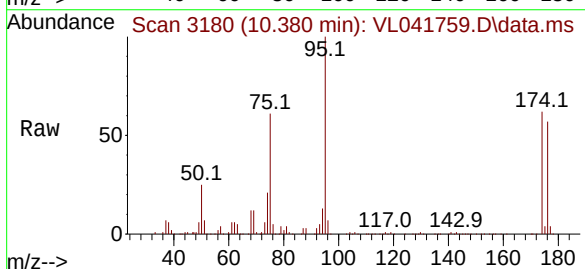
Tgt Ion: 95 Resp: 129985

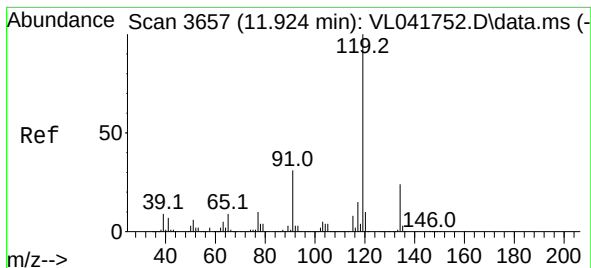
Ion Ratio Lower Upper

95 100

174 61.3 47.6 71.4

175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 10.620 ppbv

RT: 11.927 min Scan# 3657

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

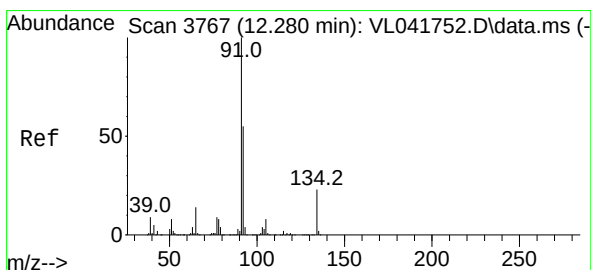
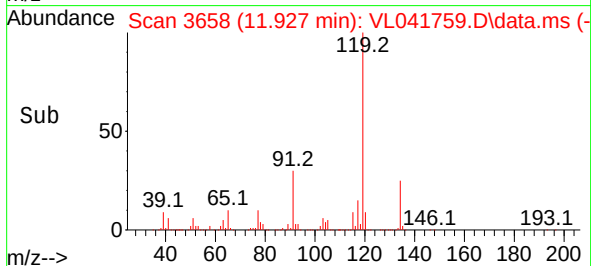
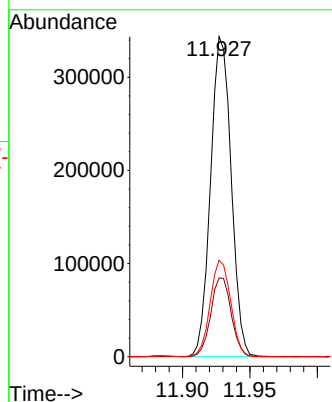
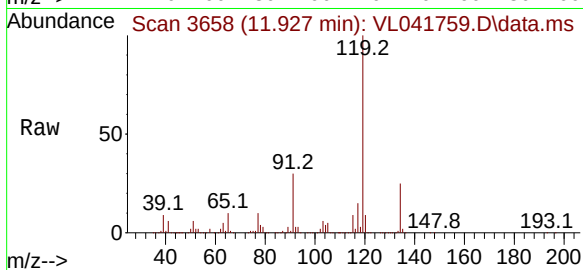
Tgt Ion:119 Resp: 365667

Ion Ratio Lower Upper

119 100

134 24.5 19.6 29.4

91 30.1 24.4 36.6



#70

n-Butylbenzene

Concen: 10.727 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

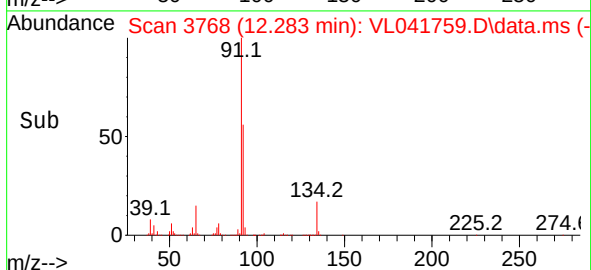
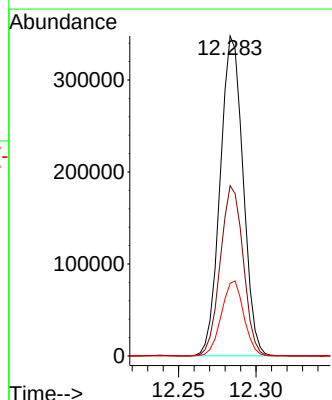
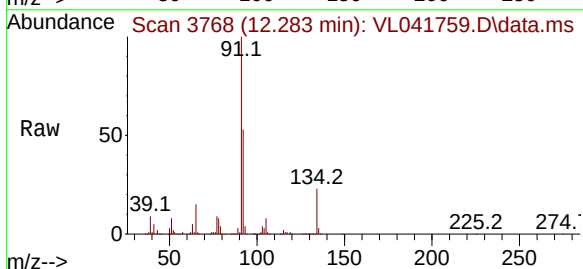
Tgt Ion: 91 Resp: 356880

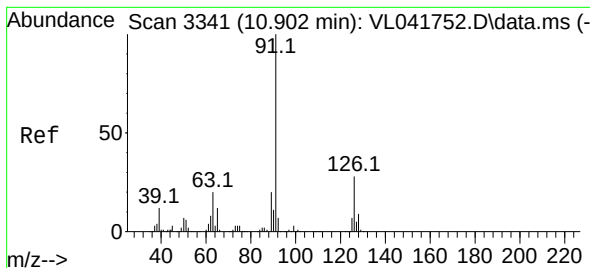
Ion Ratio Lower Upper

91 100

92 53.6 43.2 64.8

134 23.0 18.2 27.4





#71

2-Chlorotoluene

Concen: 10.340 ppbv

RT: 10.904 min Scan# 3410

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

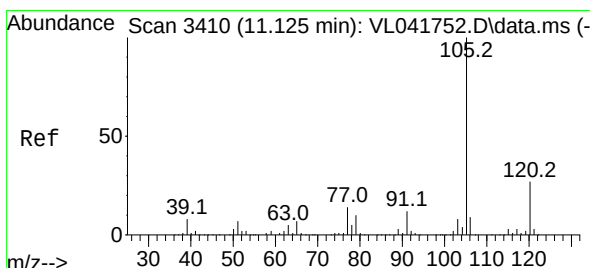
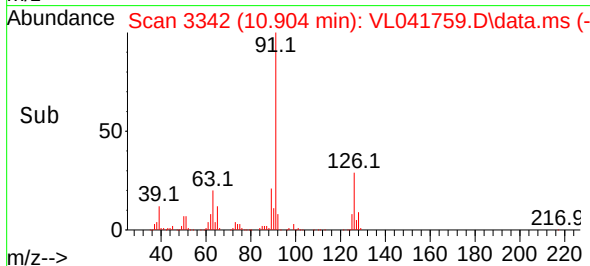
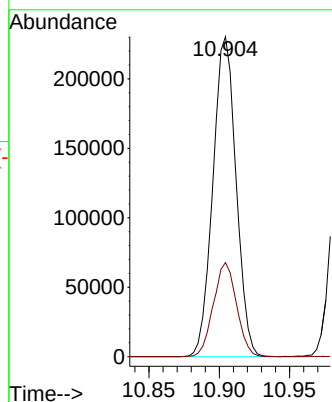
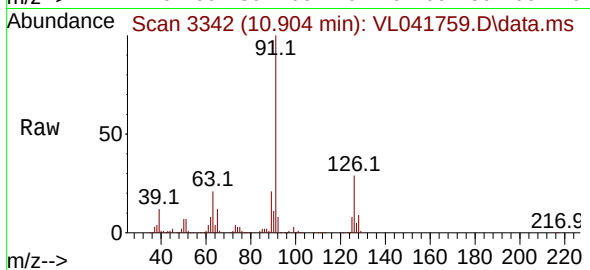
ICVVL121624

Tgt Ion: 91 Resp: 264123

Ion Ratio Lower Upper

91 100

126 29.4 11.6 46.4



#72

4-Ethyltoluene

Concen: 10.672 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:105 Resp: 280580

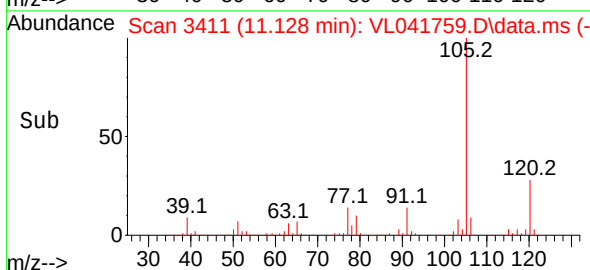
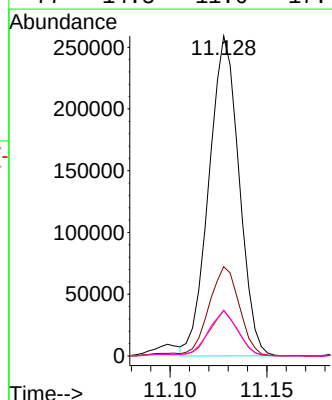
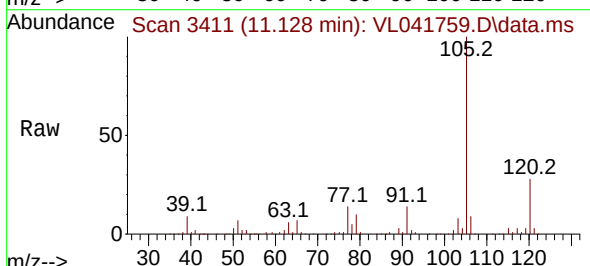
Ion Ratio Lower Upper

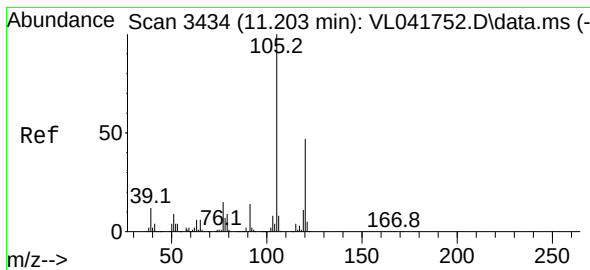
105 100

120 29.0 23.3 34.9

91 14.1 10.9 16.3

77 14.3 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 10.902 ppbv

RT: 11.205 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_1

ClientSampleId :

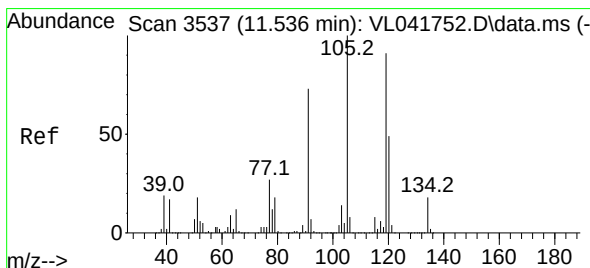
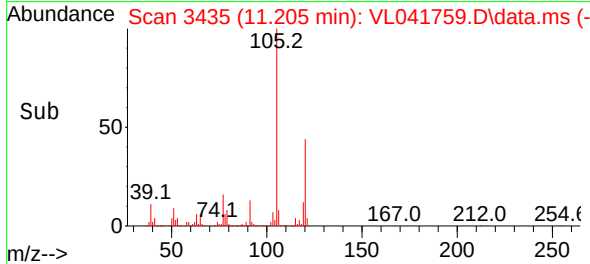
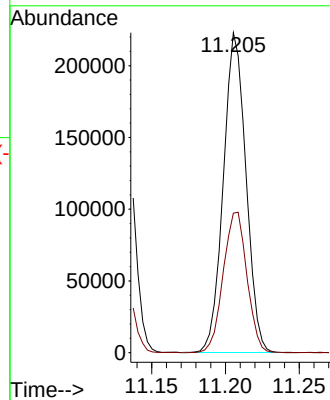
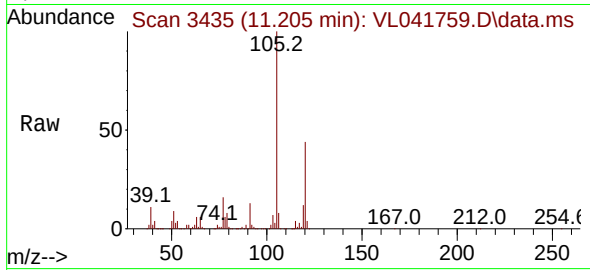
ICVVL121624

Tgt Ion:105 Resp: 237804

Ion Ratio Lower Upper

105 100

120 43.6 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 10.919 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Tgt Ion:105 Resp: 256141

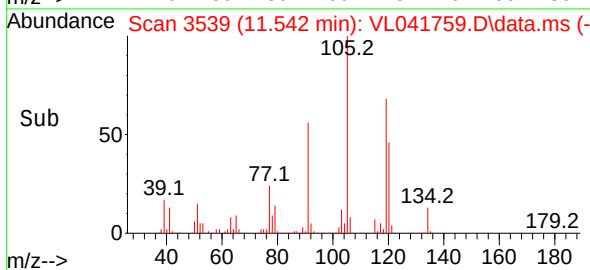
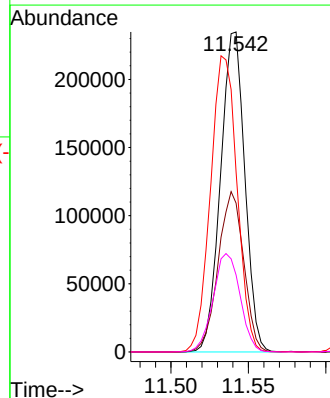
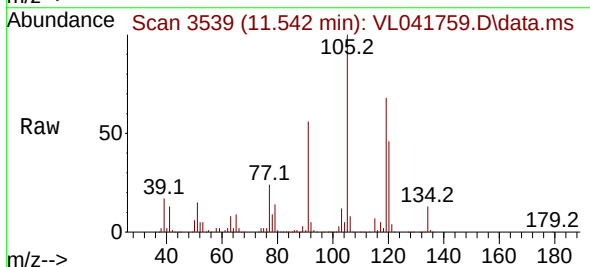
Ion Ratio Lower Upper

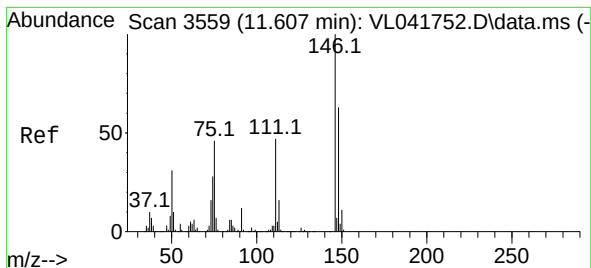
105 100

120 46.5 39.0 58.4

91 56.2 58.1 87.1#

77 24.1 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 10.025 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

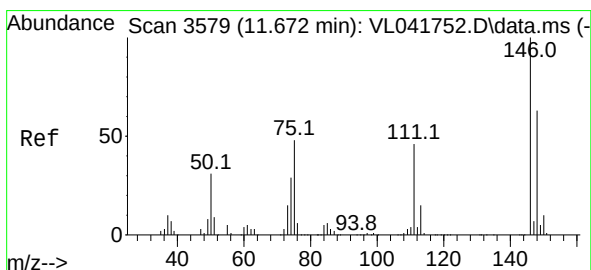
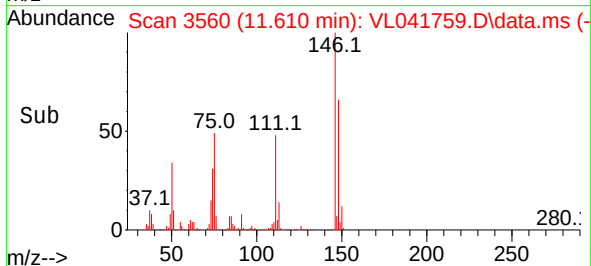
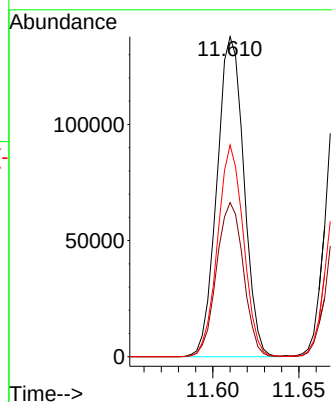
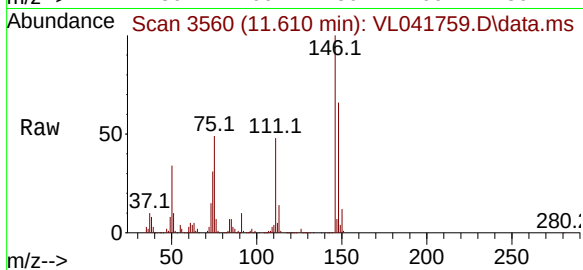
Tgt Ion:146 Resp: 149927

Ion Ratio Lower Upper

146 100

111 48.2 23.4 70.3

148 63.5 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 10.302 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

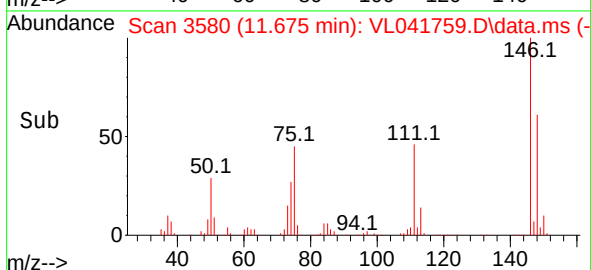
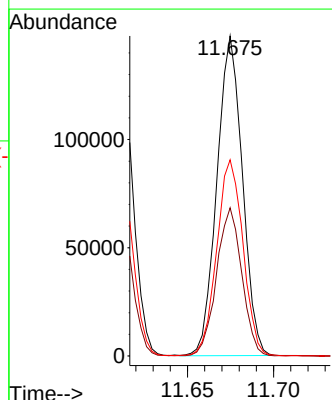
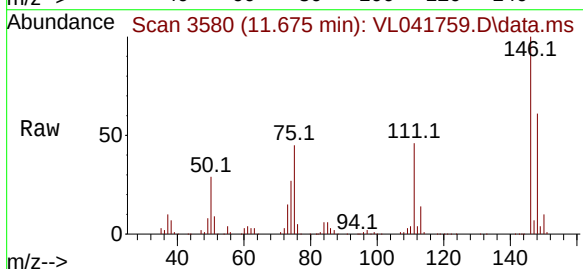
Tgt Ion:146 Resp: 152212

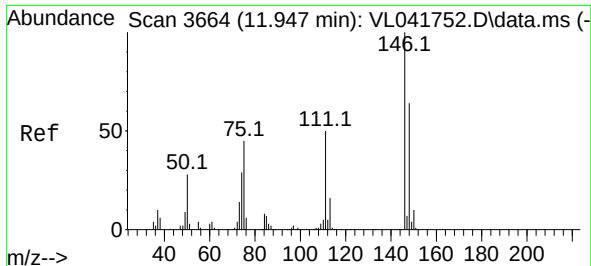
Ion Ratio Lower Upper

146 100

111 46.1 22.7 68.1

148 63.4 31.4 94.0

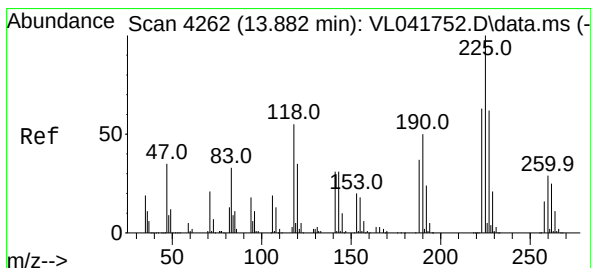
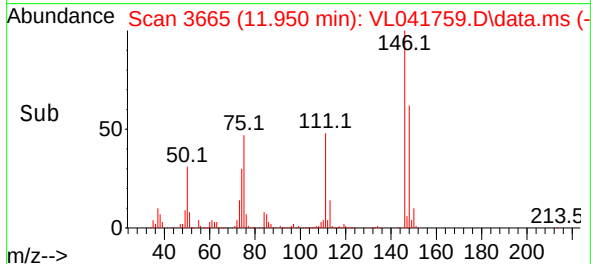
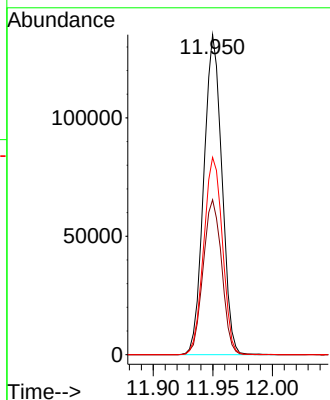
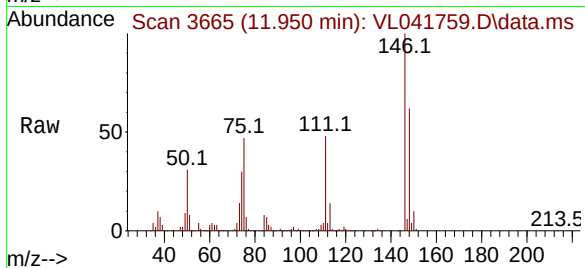




#77
1,2-Dichlorobenzene
Concen: 9.919 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

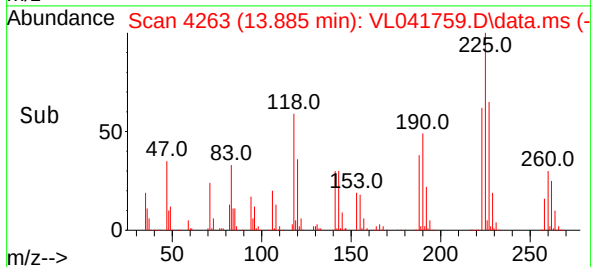
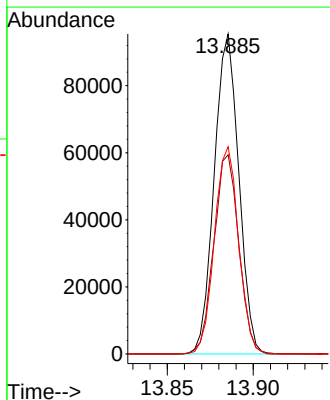
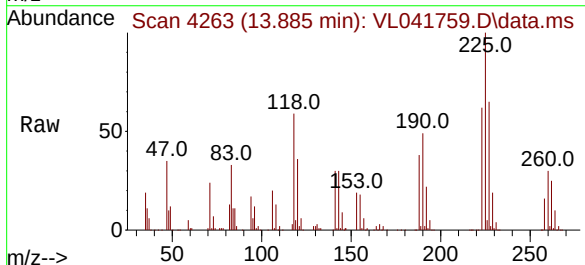
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

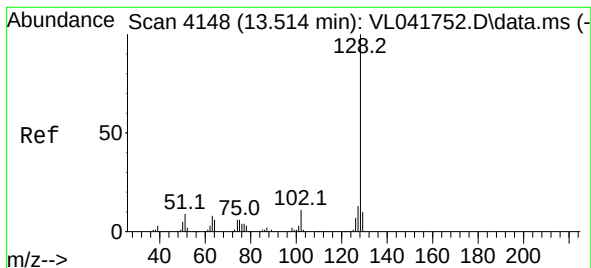
Tgt Ion:146 Resp: 142734
Ion Ratio Lower Upper
146 100
111 49.7 24.8 74.3
148 63.7 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 8.873 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Tgt Ion:225 Resp: 94671
Ion Ratio Lower Upper
225 100
223 63.2 50.5 75.7
227 63.8 50.3 75.5





#79

Naphthalene

Concen: 12.384 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

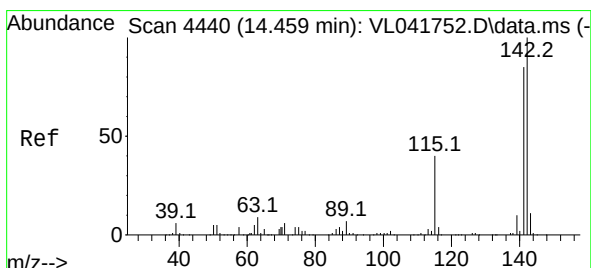
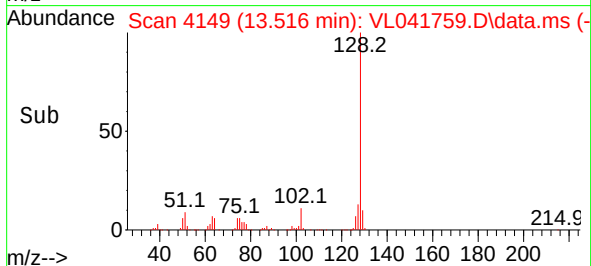
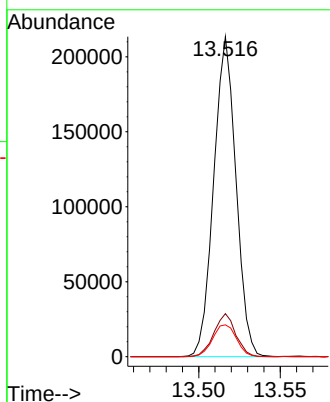
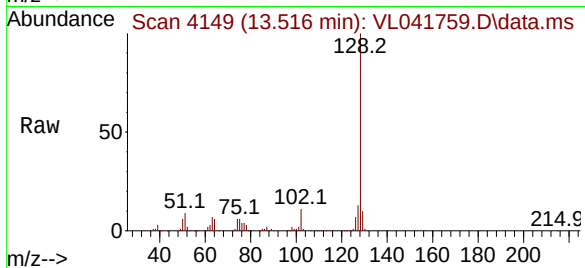
Tgt Ion:128 Resp: 202413

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

129 10.0 8.2 12.4



#80

Naphthalene, 2-methyl-

Concen: 20.261 ppbv

RT: 14.461 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

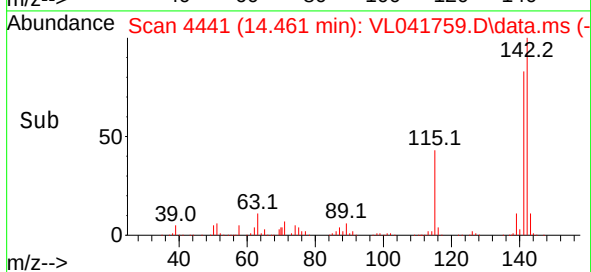
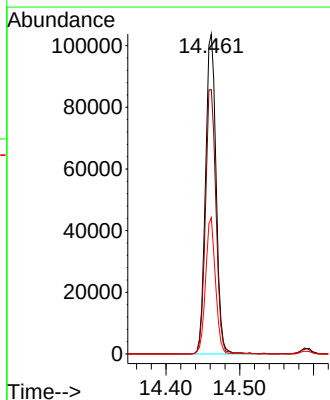
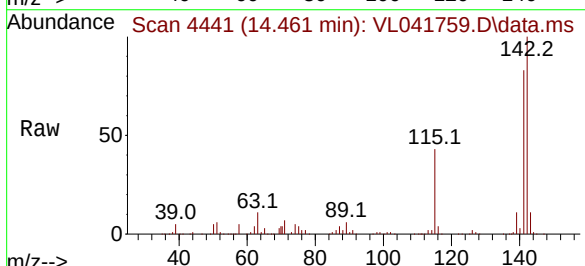
Tgt Ion:142 Resp: 102431

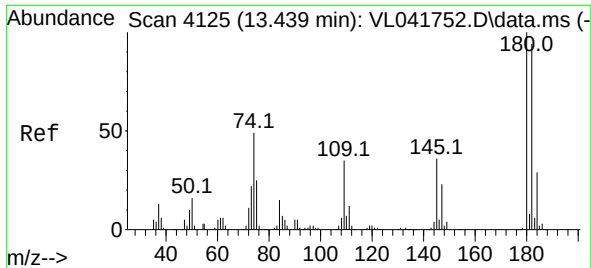
Ion Ratio Lower Upper

142 100

141 83.2 68.4 102.6

115 40.4 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 11.025 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041759.D

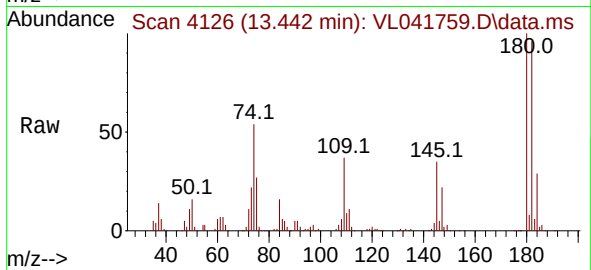
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624



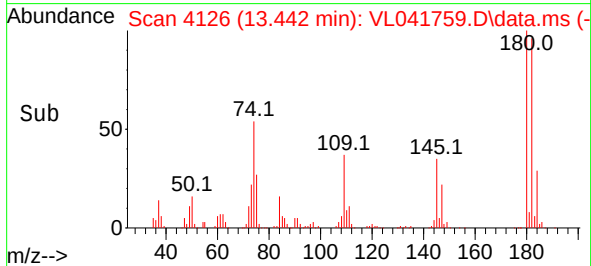
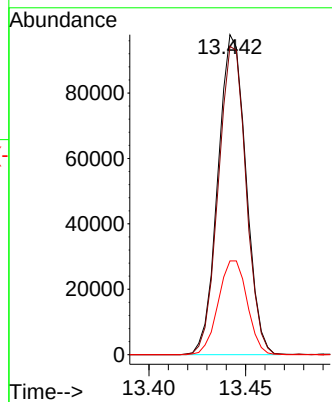
Tgt Ion:180 Resp: 98468

Ion Ratio Lower Upper

180 100

182 95.3 77.0 115.6

184 30.2 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041788.D
 Acq On : 18 Dec 2024 10:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	76040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	198370	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	172190	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	150705	10.503	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	112841	8.340	ppbv	96
3) Chlorodifluoromethane	1.473	51	112096	9.040	ppbv	98
4) Chloromethane	1.531	50	48418	9.146	ppbv	99
5) Vinyl Chloride	1.580	62	46631	8.743	ppbv	99
6) Bromomethane	1.667	94	22202	8.821	ppbv	98
7) Chloroethane	1.703	64	19203	9.269	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	111653	9.220	ppbv	96
9) Propene	1.483	41	41427	7.708	ppbv	96
10) Heptane	4.975	43	111650	8.087	ppbv	96
11) Trichlorofluoromethane	1.874	101	134331	9.347	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	96469	8.825	ppbv	98
13) Ethanol	1.719	45	2954	6.637	ppbv	100
14) Bromoethene	1.780	108	33118	8.974	ppbv	97
15) Acetone	1.832	43	111294	7.522	ppbv	99
16) 1,3-Butadiene	1.606	39	53299	9.149	ppbv	97
17) tert-Butyl alcohol	2.036	59	135516	9.233	ppbv	100
18) 1,1-Dichloroethene	2.033	96	41224	8.996	ppbv	93
19) Isopropyl Alcohol	1.884	45	64831	7.303	ppbv	99
20) Methylene Chloride	2.059	84	35699	8.462	ppbv	96
21) Allyl Chloride	2.094	41	74468	9.281	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	45331	8.641	ppbv	94
23) Vinyl Acetate	2.460	43	52709	7.673	ppbv #	95
24) 1,1-Dichloroethane	2.405	63	95779	9.020	ppbv	99
25) Ethyl Acetate	2.832	43	238771	8.675	ppbv	100
26) Hexane	2.822	57	87593	8.386	ppbv	95
27) Carbon Disulfide	2.149	76	85318	9.064	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	67965	8.021	ppbv	97
29) Chloroform	2.845	83	145536	9.143	ppbv	97
30) Cyclohexane	3.855	84	74346	8.366	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	92460	8.567	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	144038	8.902	ppbv	99
34) 2-Butanone	2.554	43	139509	8.742	ppbv	99
35) Carbon Tetrachloride	3.761	117	147726	10.490	ppbv	99
36) Benzene	3.654	78	178114	8.680	ppbv	98
37) 1,2-Dichloroethane	3.214	62	121412	9.509	ppbv	100
38) Trichloroethene	4.548	130	70175	8.057	ppbv	98
39) 1,2-Dichloropropane	4.308	63	64154	8.645	ppbv	97
40) 1,4-Dioxane	4.583	88	30262	8.347	ppbv #	96
41) Tetrahydrofuran	3.052	42	74734	8.359	ppbv	98
42) Bromodichloromethane	4.486	83	140832	9.588	ppbv	95
43) Methyl Methacrylate	4.878	69	69545	8.895	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	302332	8.627	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	69601	8.607	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041788.D
 Acq On : 18 Dec 2024 10:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

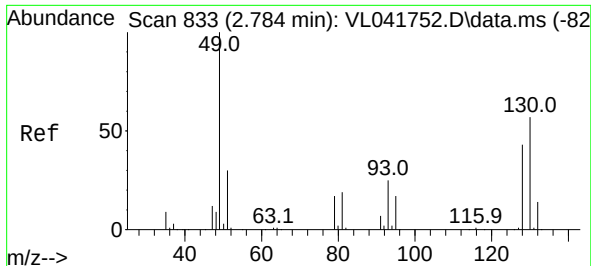
Quant Time: Dec 19 07:49:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	52196	5.084	ppbv	98
47) 1,1,2-Trichloroethane	6.580	97	67717	8.736	ppbv	93
48) Dibromochloromethane	7.386	129	101875	9.625	ppbv	97
49) Bromoform	9.483	173	83649	9.655	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	186865	8.600	ppbv	99
51) 2-Hexanone	7.438	43	149217	8.472	ppbv #	98
52) Tetrachloroethene	8.224	164	59756	7.824	ppbv	93
53) Toluene	6.930	91	195158	8.389	ppbv	99
54) 1,2-Dibromoethane	7.648	107	94138	8.814	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	87869	9.626	ppbv	99
57) Chlorobenzene	8.920	112	157039	8.912	ppbv	97
58) Ethyl Benzene	9.354	91	281290	9.074	ppbv	97
59) m/p-Xylene	9.548	91	242021	9.710	ppbv #	100
60) o-Xylene	9.963	91	232028	9.283	ppbv	100
61) Styrene	9.869	104	103216	9.550	ppbv	99
62) Isopropylbenzene	10.539	105	352903	9.397	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	144197	9.216	ppbv	99
64) n-propylbenzene	10.989	120	90043	9.483	ppbv	99
65) tert-Butylbenzene	11.532	119	314940	9.295	ppbv	98
66) Benzyl Chloride	11.616	91	22164	7.426	ppbv	100
67) sec-Butylbenzene	11.769	105	442201	9.431	ppbv	100
69) p-Isopropyltoluene	11.927	119	369746	9.569	ppbv	99
70) n-Butylbenzene	12.283	91	373294	9.999	ppbv	99
71) 2-Chlorotoluene	10.901	91	264866	9.240	ppbv	100
72) 4-Ethyltoluene	11.124	105	285469	9.676	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	242783	9.918	ppbv	97
74) 1,2,4-Trimethylbenzene	11.536	105	263301	10.003	ppbv	90
75) 1,3-Dichlorobenzene	11.607	146	154857	9.227	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	154115	9.296	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	145375	9.002	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	93437	7.804	ppbv	100
79) Naphthalene	13.513	128	200311	10.921	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	94903	16.728	ppbv	97
81) 1,2,4-Trichlorobenzene	13.442	180	93675	9.346	ppbv	99

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

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
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QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

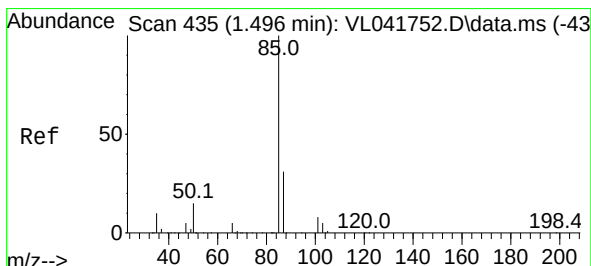
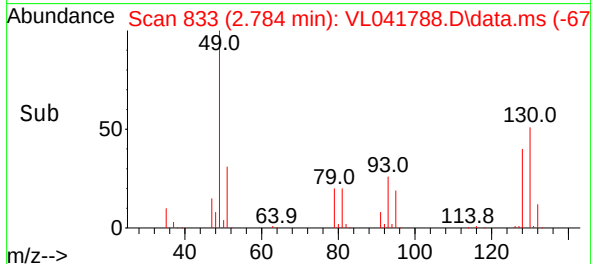
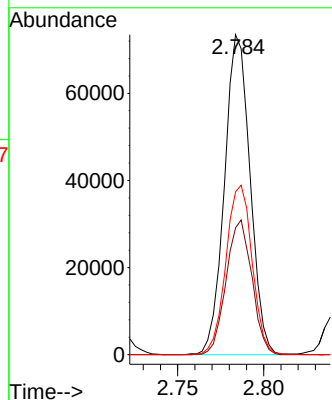
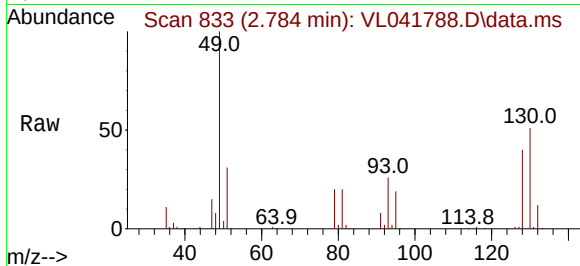




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

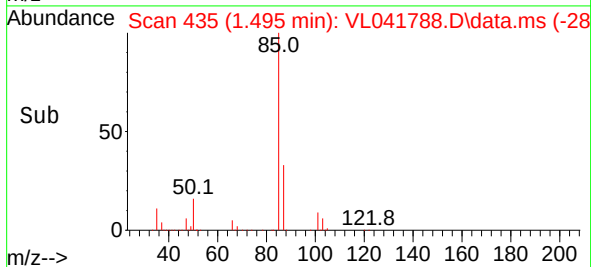
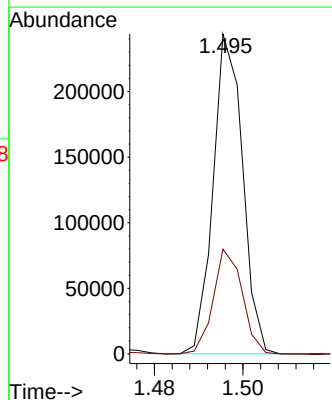
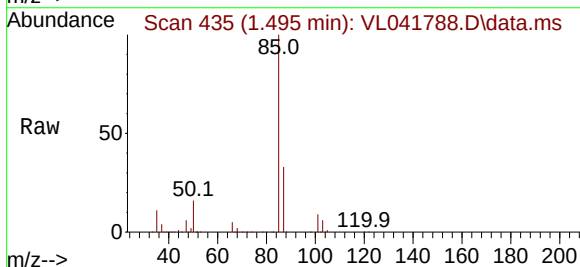
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

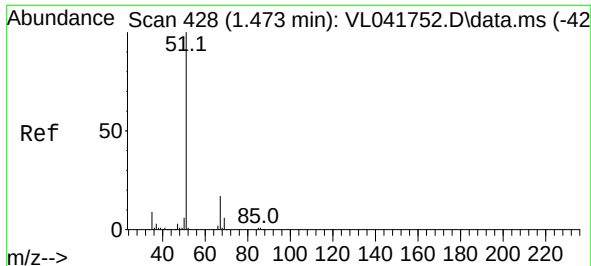
Tgt Ion: 49 Resp: 76040
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.6
130 54.2 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 8.340 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 85 Resp: 112841
Ion Ratio Lower Upper
85 100
87 32.7 24.5 36.7

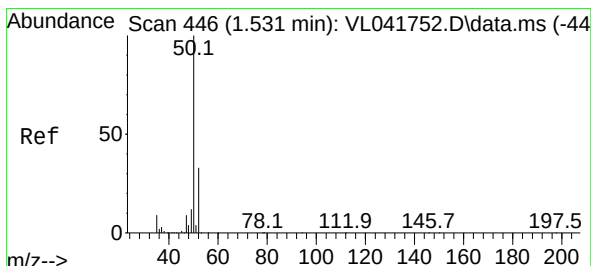
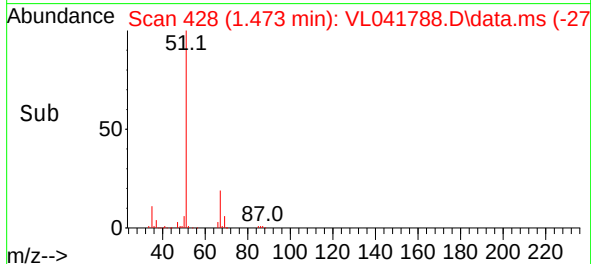
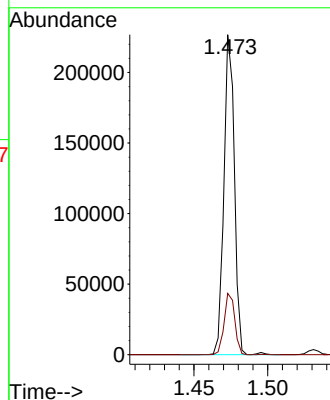
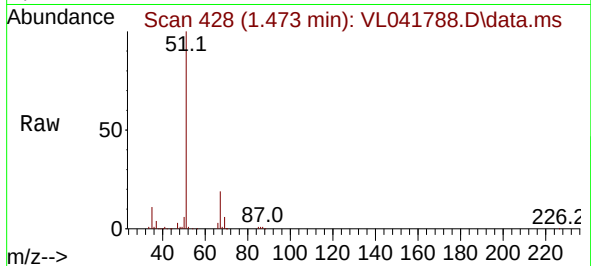




#3
Chlorodifluoromethane
Concen: 9.040 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

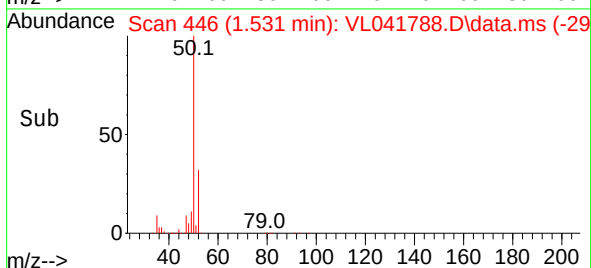
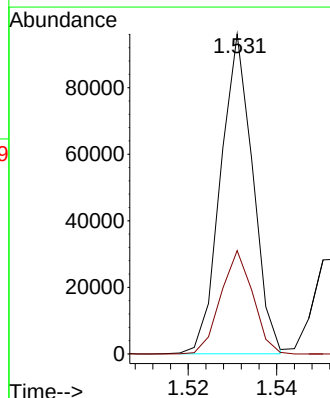
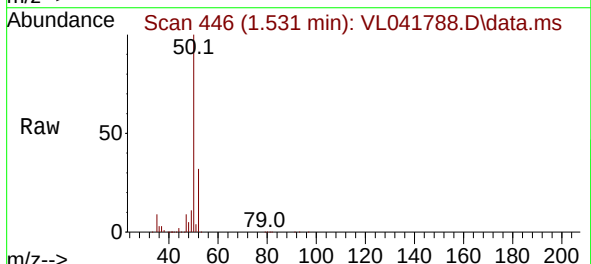
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

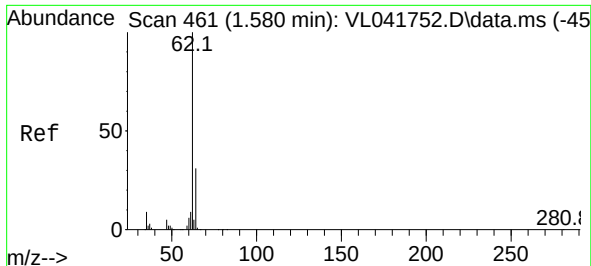
Tgt Ion: 51 Resp: 112096
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.4



#4
Chloromethane
Concen: 9.146 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 50 Resp: 48418
Ion Ratio Lower Upper
50 100
52 32.3 26.2 39.2

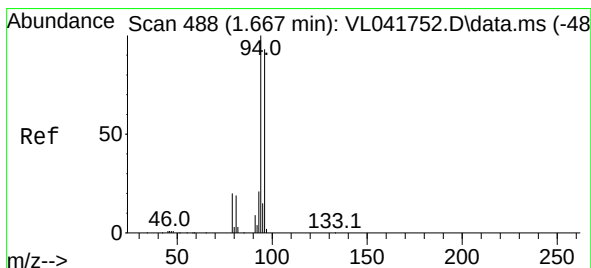
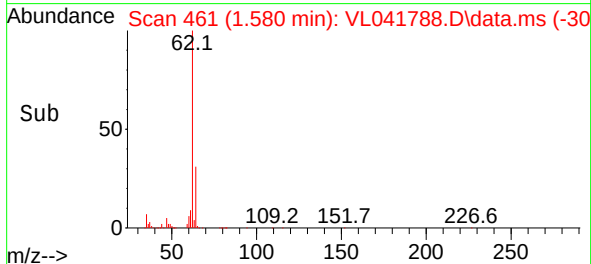
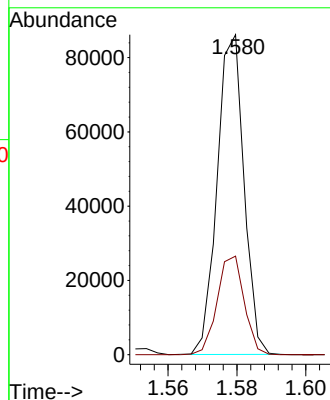
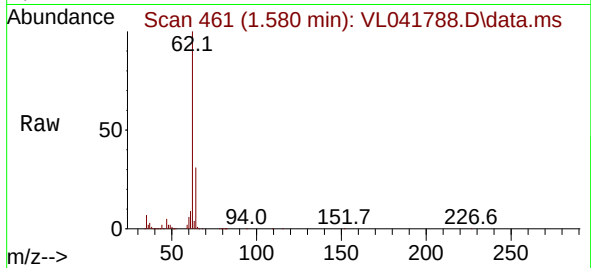




#5
 Vinyl Chloride
 Concen: 8.743 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

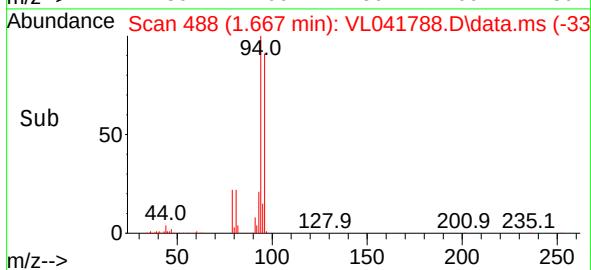
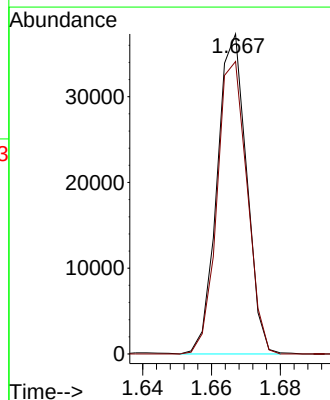
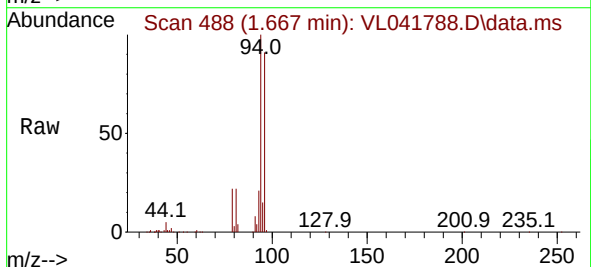
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

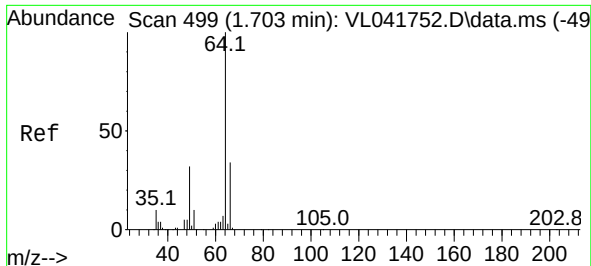
Tgt Ion: 62 Resp: 46631
 Ion Ratio Lower Upper
 62 100
 64 30.8 25.1 37.7



#6
 Bromomethane
 Concen: 8.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

Tgt Ion: 94 Resp: 22202
 Ion Ratio Lower Upper
 94 100
 96 91.4 74.7 112.1

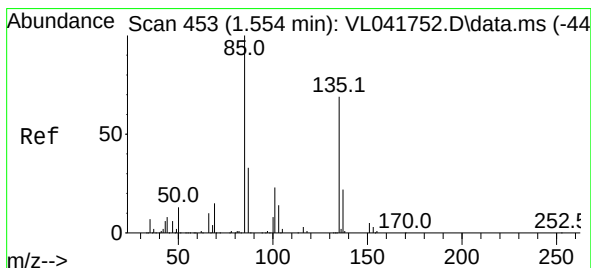
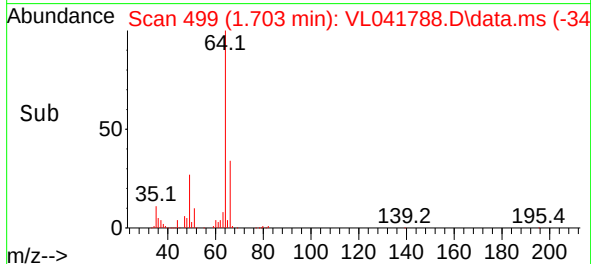
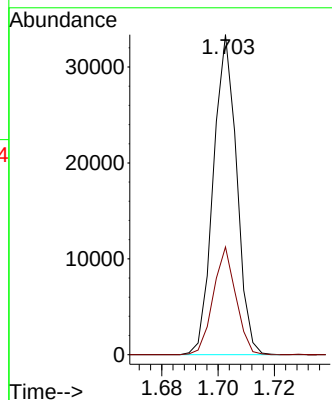
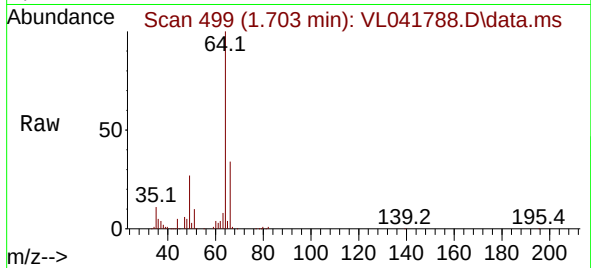




#7
Chloroethane
Concen: 9.269 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

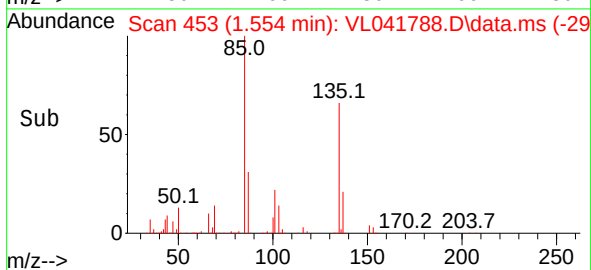
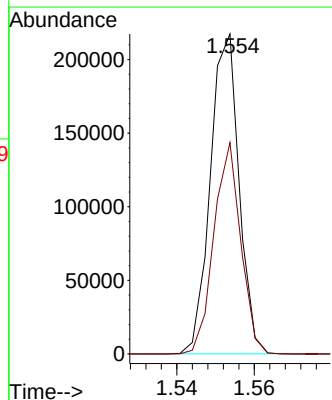
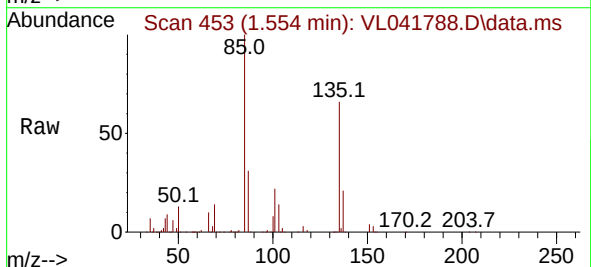
Instrument :
MSVOA_1
ClientSampleId :
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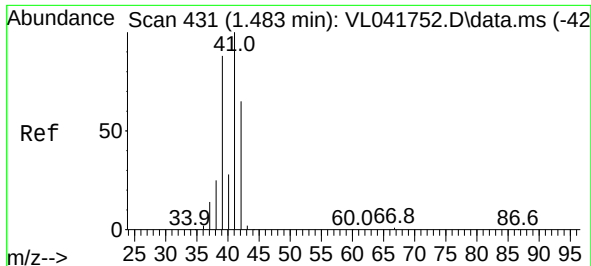
Tgt Ion: 64 Resp: 19203
Ion Ratio Lower Upper
64 100
66 33.6 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 9.220 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 85 Resp: 111653
Ion Ratio Lower Upper
85 100
135 62.0 51.9 77.9





#9

Propene

Concen: 7.708 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

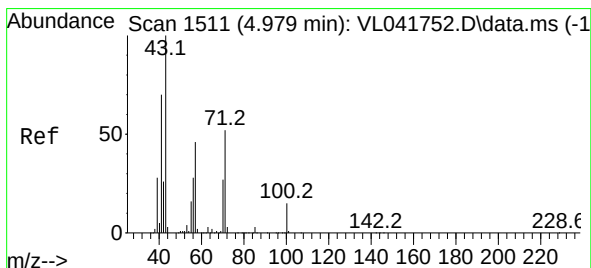
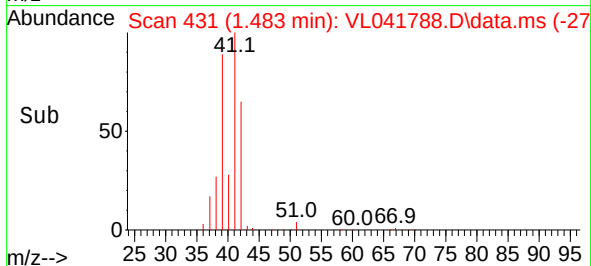
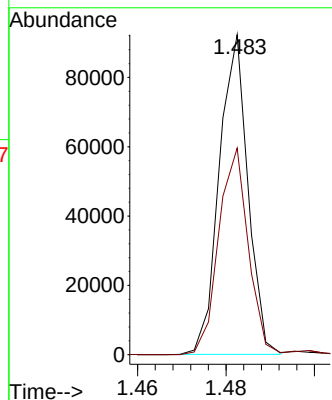
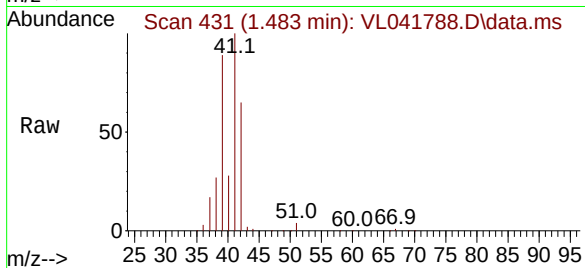
VSTDCCC010

Tgt Ion: 41 Resp: 41427

Ion Ratio Lower Upper

41 100

42 68.5 52.4 78.6



#10

Heptane

Concen: 8.087 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. -0.004 min

Lab File: VL041788.D

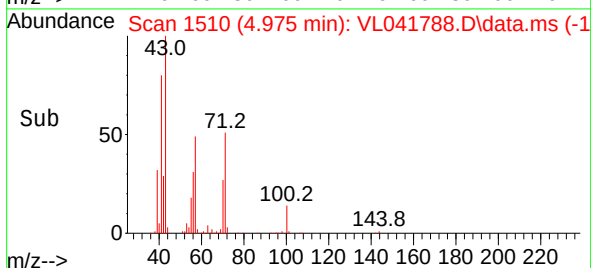
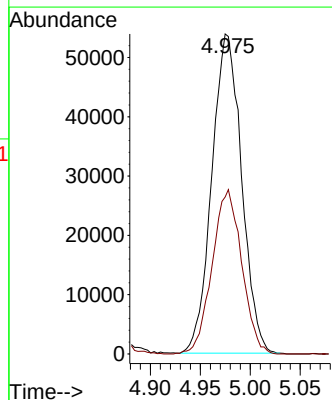
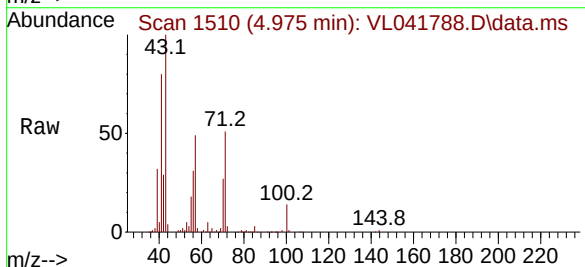
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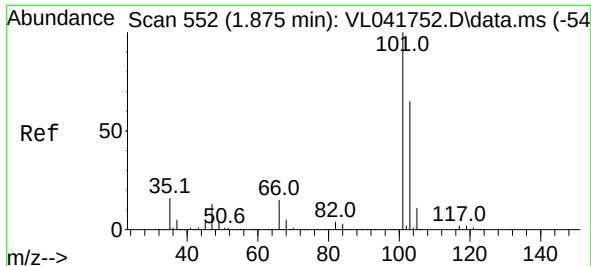
Tgt Ion: 43 Resp: 111650

Ion Ratio Lower Upper

43 100

57 51.1 38.5 57.7





#11

Trichlorofluoromethane

Concen: 9.347 ppbv

RT: 1.874 min Scan# 511

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

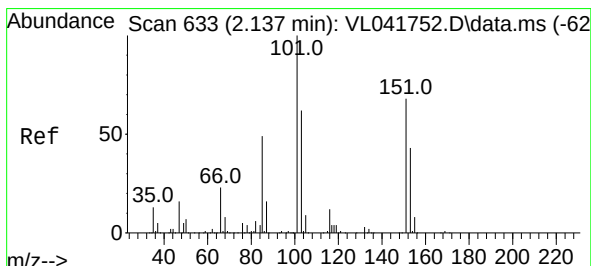
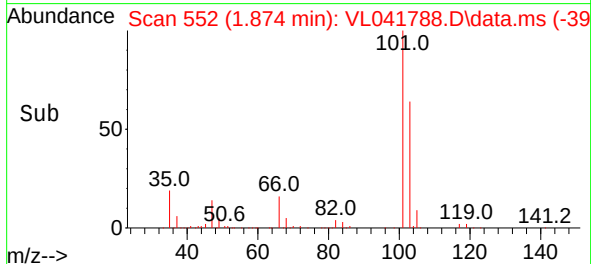
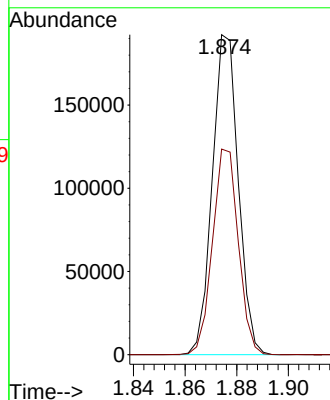
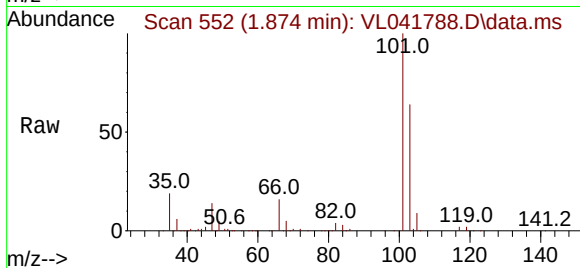
VSTDCCC010

Tgt Ion:101 Resp: 134331

Ion Ratio Lower Upper

101 100

103 64.3 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.825 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL041788.D

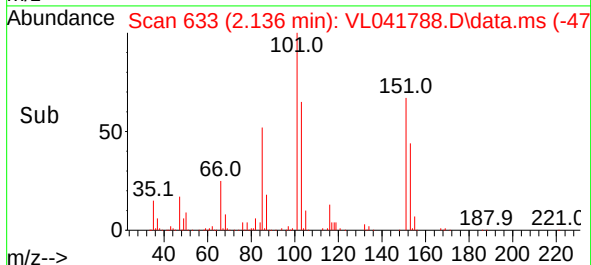
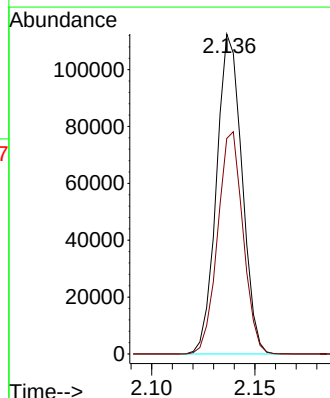
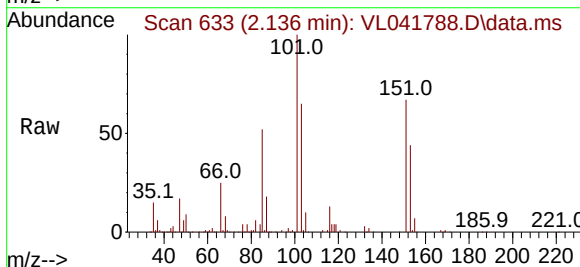
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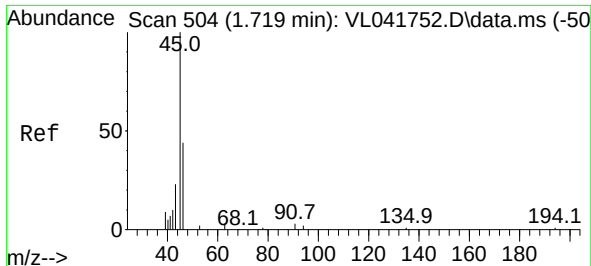
Tgt Ion:101 Resp: 96469

Ion Ratio Lower Upper

101 100

151 69.2 56.8 85.2





#13

Ethanol

Concen: 6.637 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

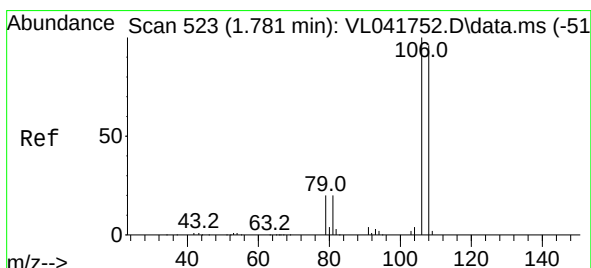
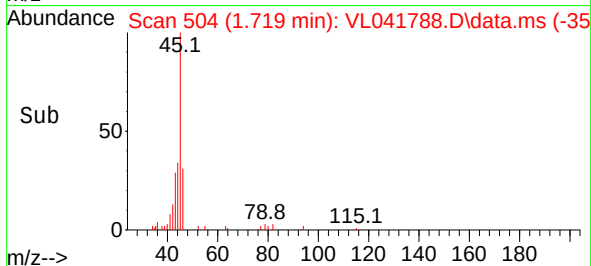
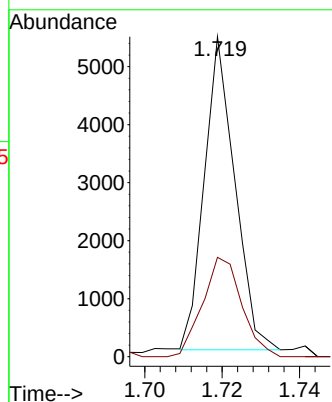
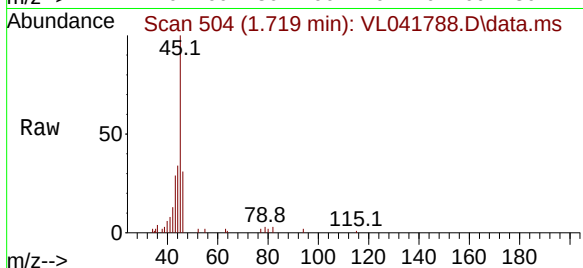
VSTDCCC010

Tgt Ion: 45 Resp: 2954

Ion Ratio Lower Upper

45 100

46 41.2 16.4 65.8



#14

Bromoethene

Concen: 8.974 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

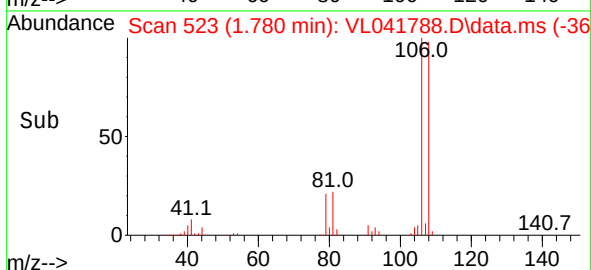
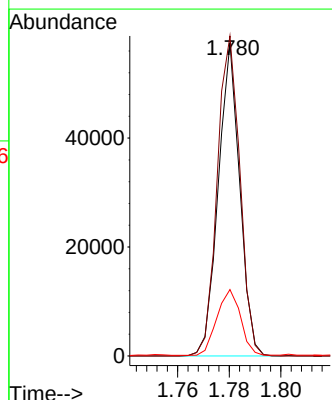
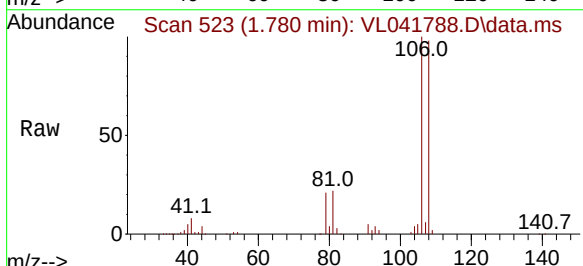
Tgt Ion:108 Resp: 33118

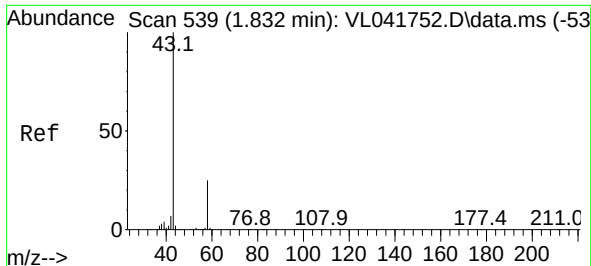
Ion Ratio Lower Upper

108 100

106 107.8 84.1 126.1

79 24.4 17.4 26.0

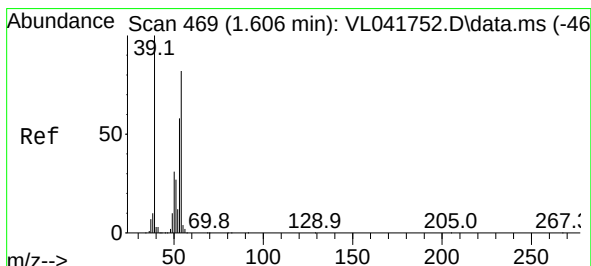
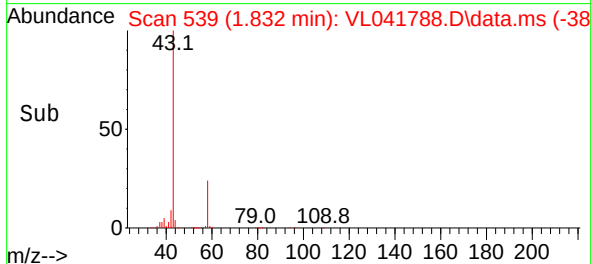
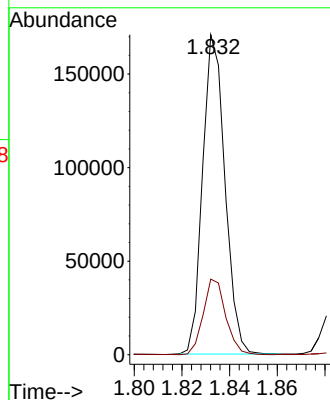
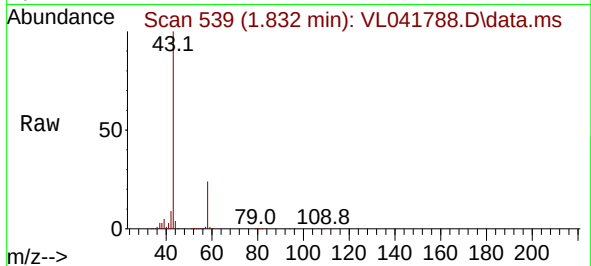




#15
Acetone
Concen: 7.522 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

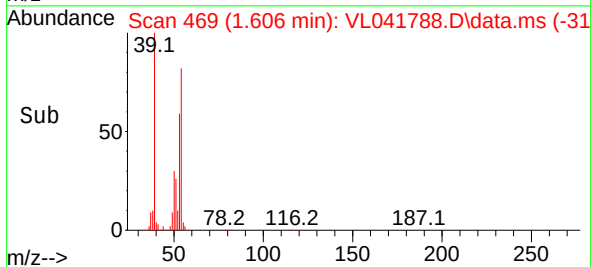
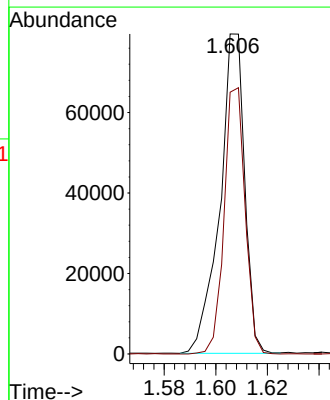
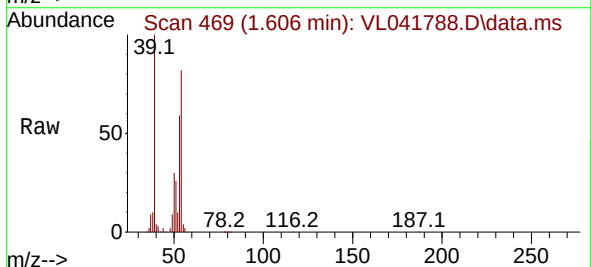
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

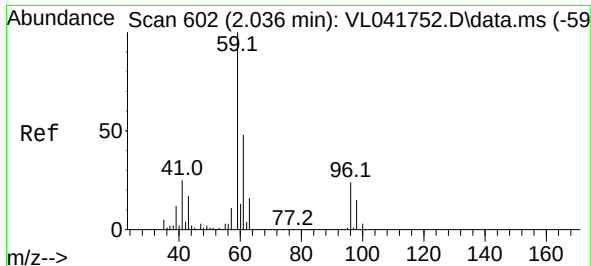
Tgt Ion: 43 Resp: 111294
Ion Ratio Lower Upper
43 100
58 24.0 19.7 29.5



#16
1,3-Butadiene
Concen: 9.149 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 39 Resp: 53299
Ion Ratio Lower Upper
39 100
54 70.3 58.4 87.6





#17

tert-Butyl alcohol

Concen: 9.233 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

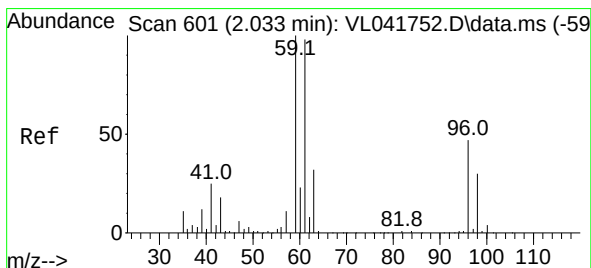
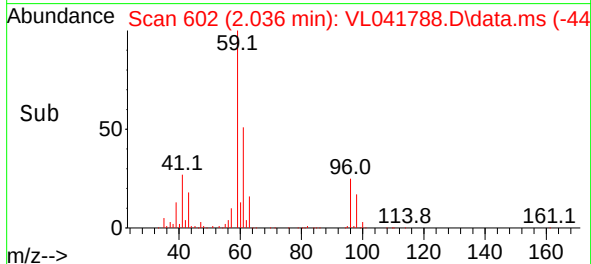
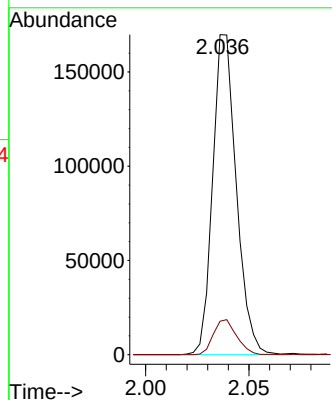
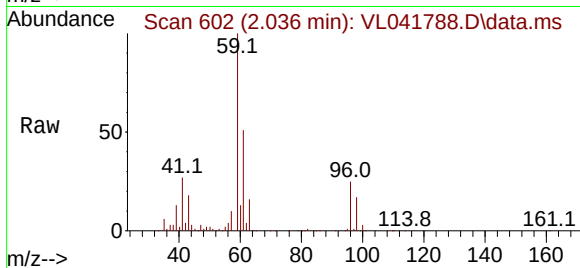
VSTDCCC010

Tgt Ion: 59 Resp: 135516

Ion Ratio Lower Upper

59 100

57 10.8 8.6 13.0



#18

1,1-Dichloroethene

Concen: 8.996 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

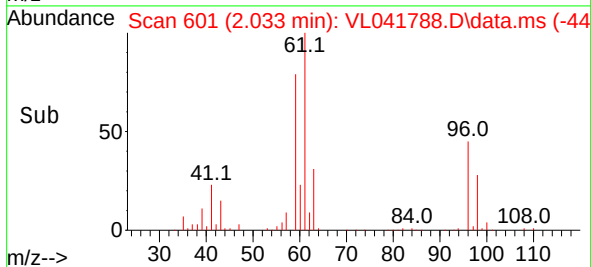
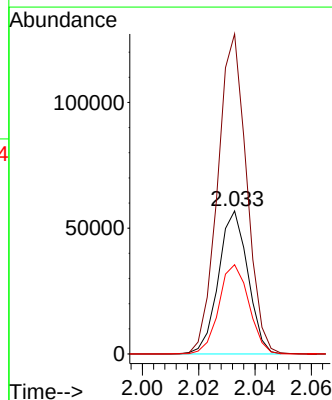
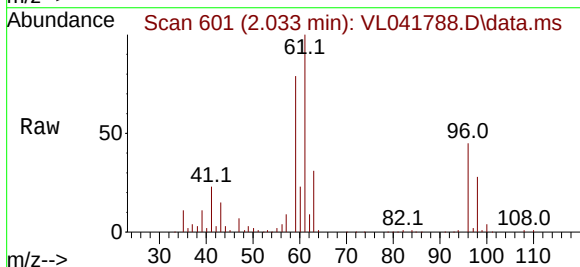
Tgt Ion: 96 Resp: 41224

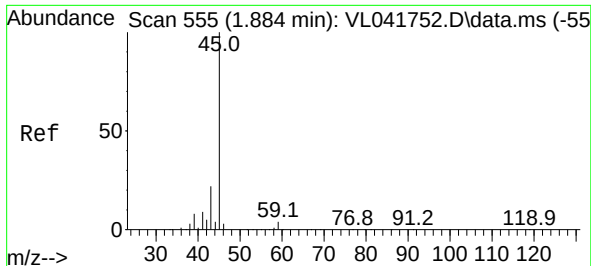
Ion Ratio Lower Upper

96 100

61 223.2 167.7 251.5

98 62.3 51.1 76.7





#19

Isopropyl Alcohol

Concen: 7.303 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

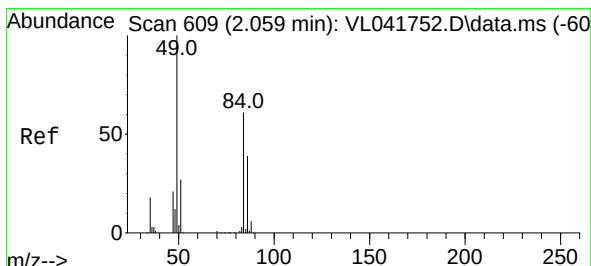
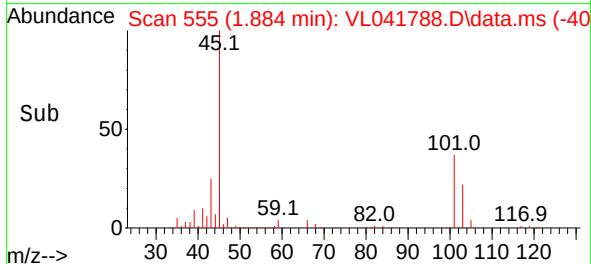
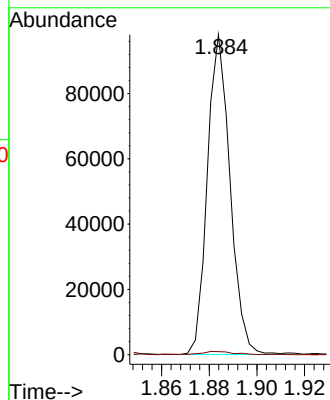
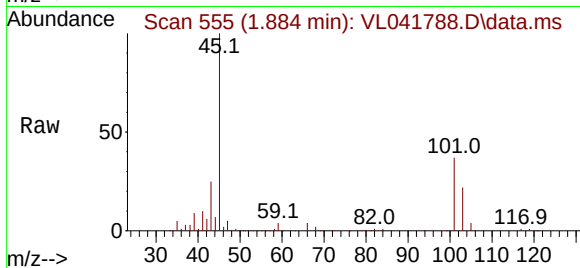
VSTDCCC010

Tgt Ion: 45 Resp: 64831

Ion Ratio Lower Upper

45 100

58 41.3 33.3 49.9



#20

Methylene Chloride

Concen: 8.462 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion: 84 Resp: 35699

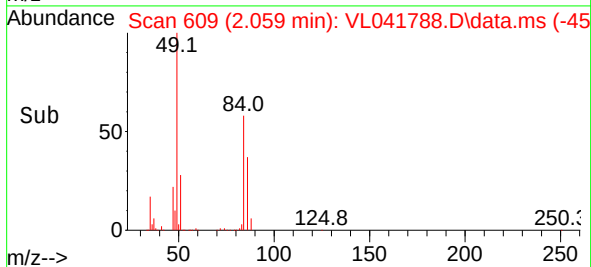
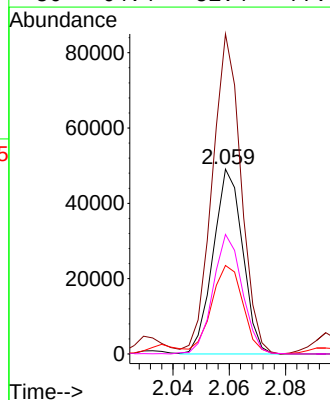
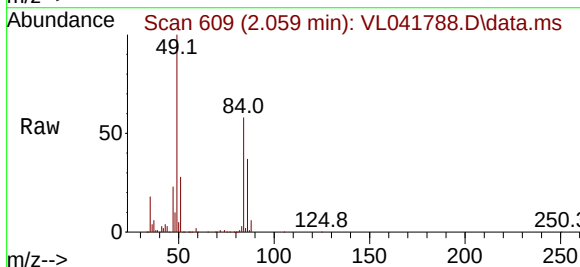
Ion Ratio Lower Upper

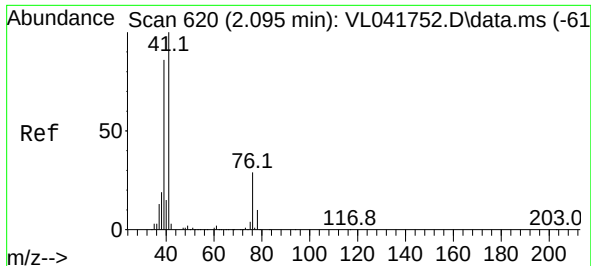
84 100

49 173.2 132.6 198.8

51 47.7 37.6 56.4

86 64.4 51.4 77.0





#21

Allyl Chloride

Concen: 9.281 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDC010

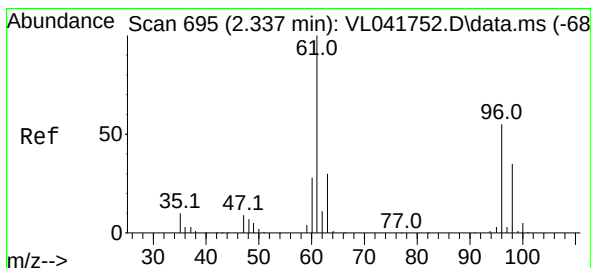
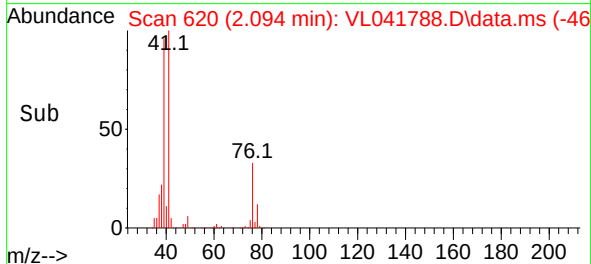
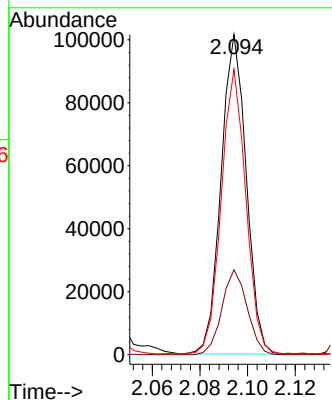
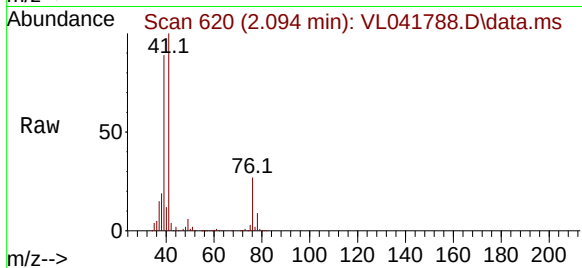
Tgt Ion: 41 Resp: 74468

Ion Ratio Lower Upper

41 100

76 26.7 22.3 33.5

39 86.9 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 8.641 ppbv

RT: 2.337 min Scan# 695

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

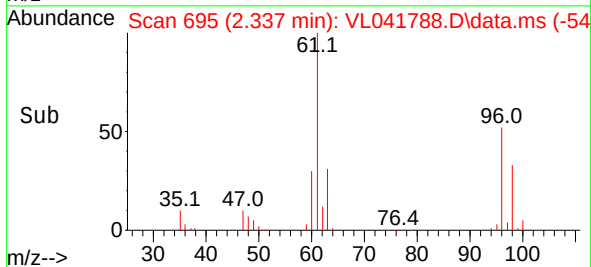
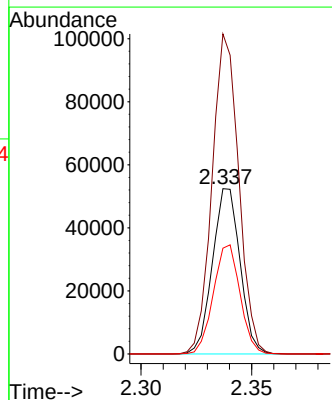
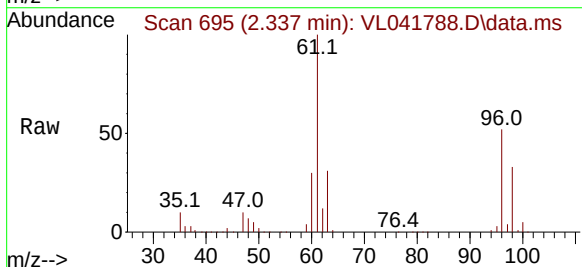
Tgt Ion: 96 Resp: 45331

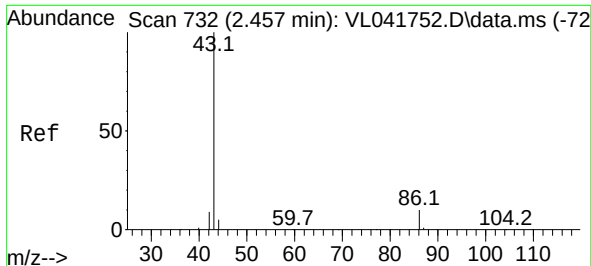
Ion Ratio Lower Upper

96 100

61 193.5 146.3 219.5

98 64.1 50.8 76.2

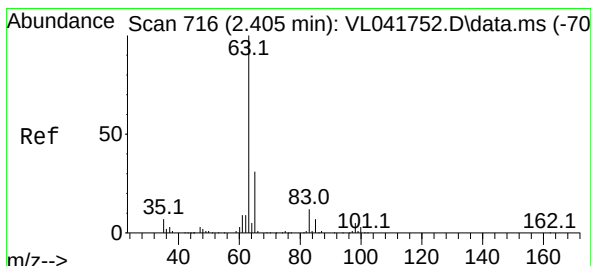
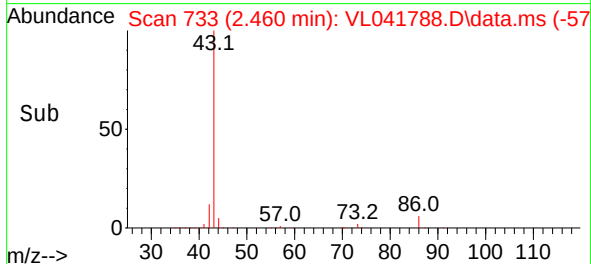
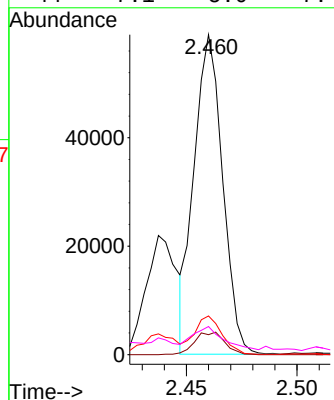
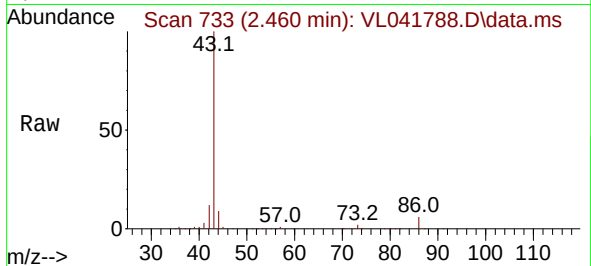




#23
 Vinyl Acetate
 Concen: 7.673 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

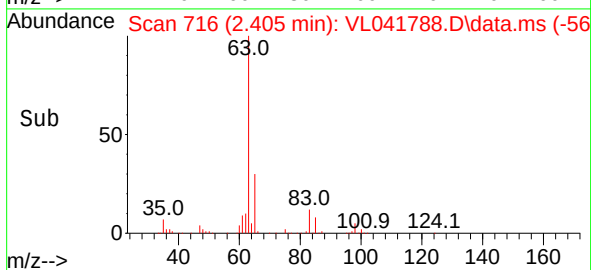
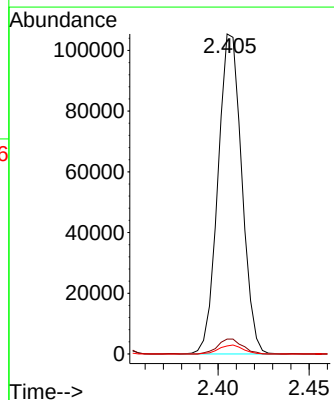
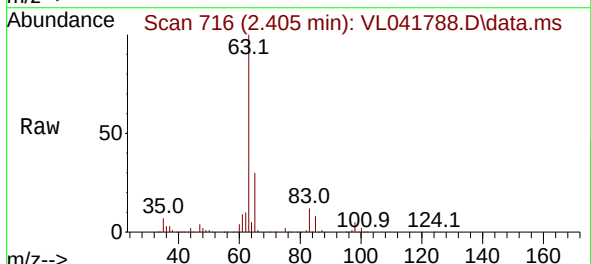
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

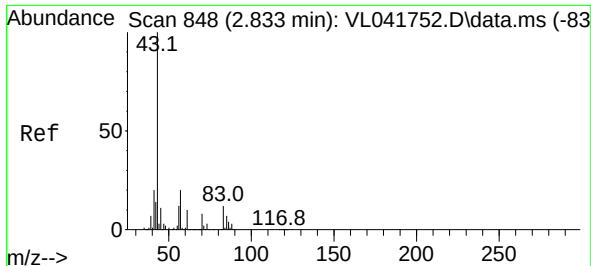
Tgt Ion:	43	Resp:	52709
Ion	Ratio	Lower	Upper
43	100		
86	6.3	6.6	10.0#
42	12.0	8.2	12.2
44	7.1	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 9.020 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

Tgt Ion:	63	Resp:	95779
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	2.5	1.4	4.2





#25

Ethyl Acetate

Concen: 8.675 ppbv

RT: 2.832 min Scan# 848

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 238771

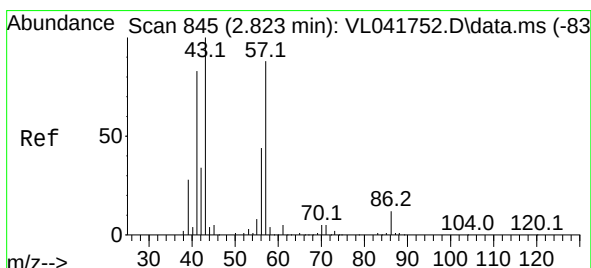
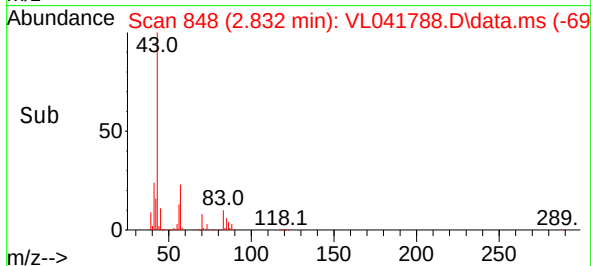
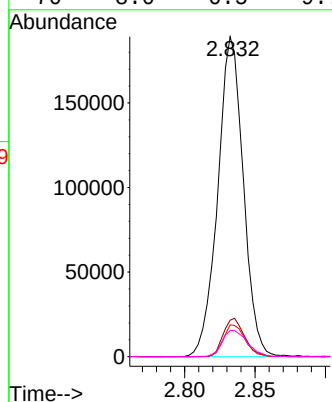
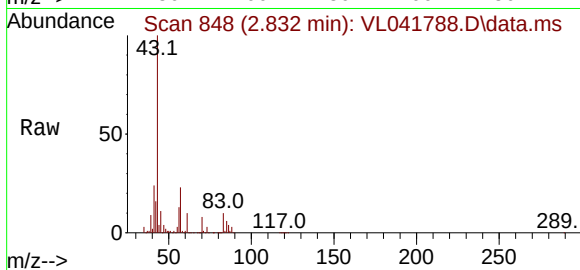
Ion Ratio Lower Upper

43 100

45 10.1 8.1 12.1

61 8.6 7.0 10.6

70 8.0 6.5 9.7



#26

Hexane

Concen: 8.386 ppbv

RT: 2.822 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion: 57 Resp: 87593

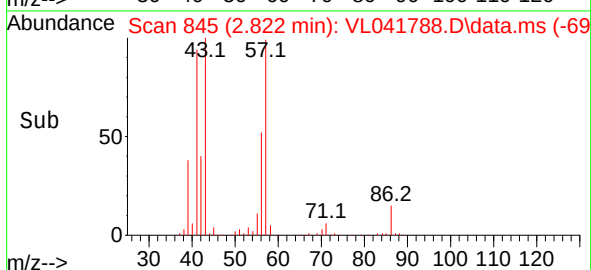
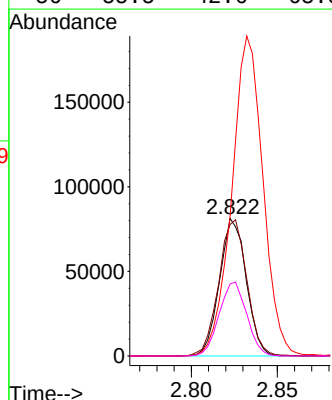
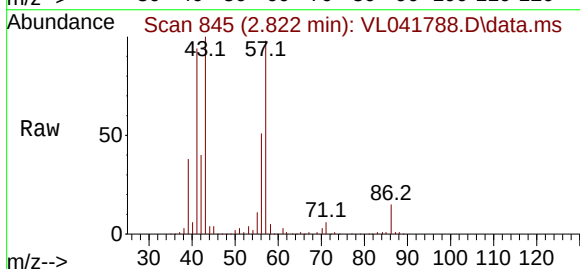
Ion Ratio Lower Upper

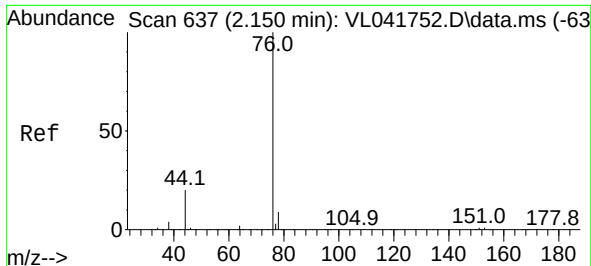
57 100

41 104.9 79.6 119.4

43 273.5 211.0 316.6

56 55.5 42.6 63.8

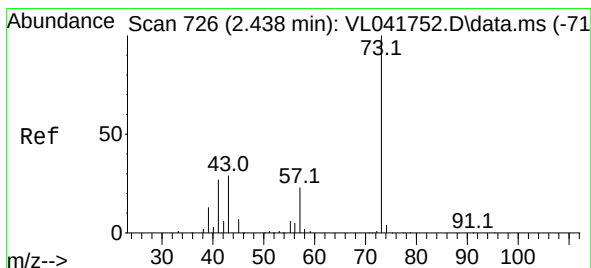
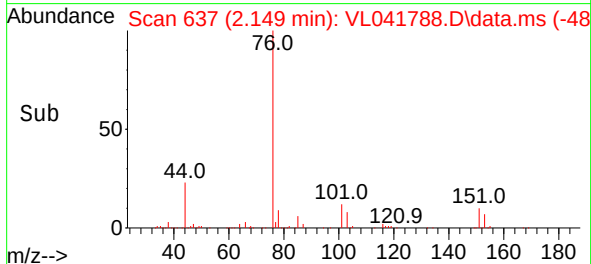
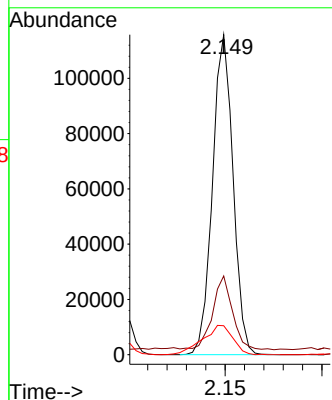
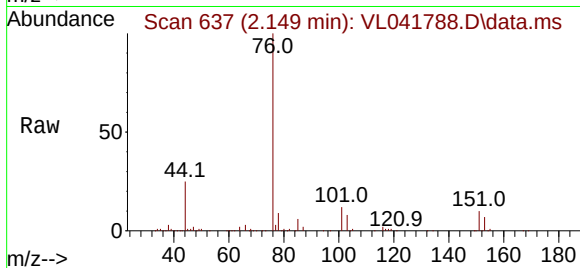




#27
Carbon Disulfide
Concen: 9.064 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

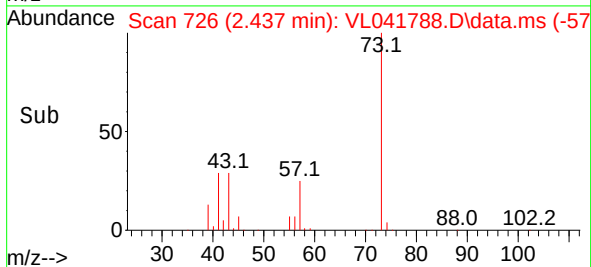
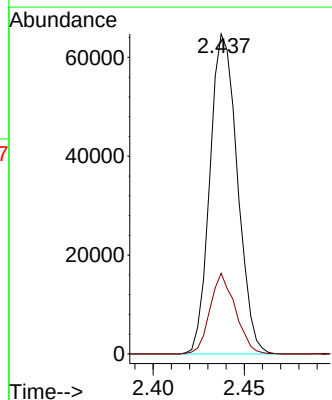
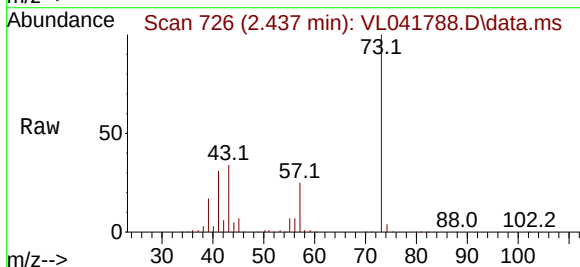
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

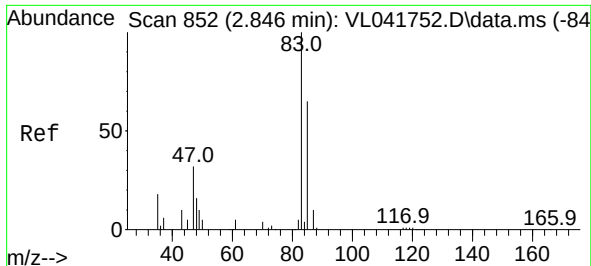
Tgt Ion: 76 Resp: 85318
Ion Ratio Lower Upper
76 100
44 22.8 17.6 26.4
78 13.5 10.2 15.4



#28
Methyl tert-Butyl Ether
Concen: 8.021 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 73 Resp: 67965
Ion Ratio Lower Upper
73 100
57 23.3 17.6 26.4





#29

Chloroform

Concen: 9.143 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

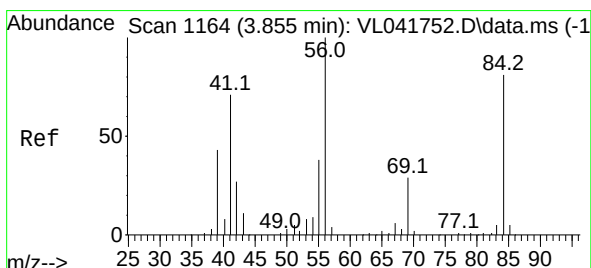
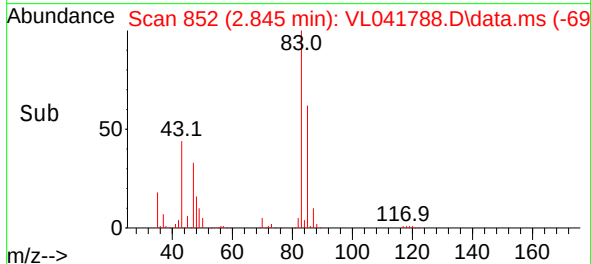
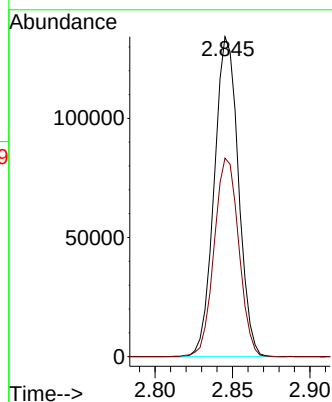
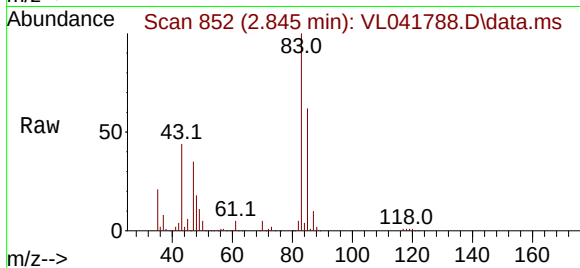
VSTDCCC010

Tgt Ion: 83 Resp: 145536

Ion Ratio Lower Upper

83 100

85 62.0 51.8 77.6



#30

Cyclohexane

Concen: 8.366 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

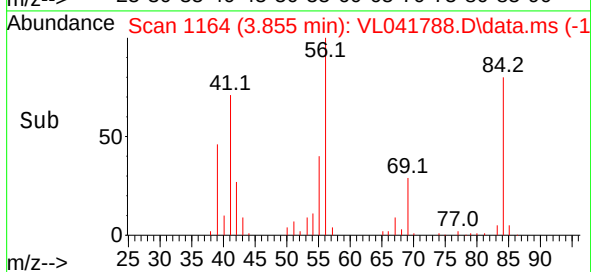
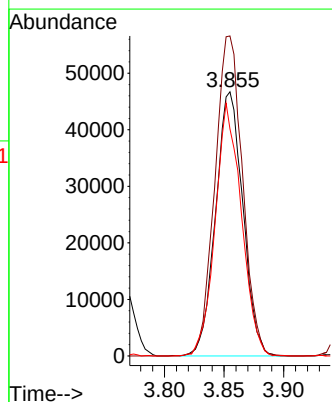
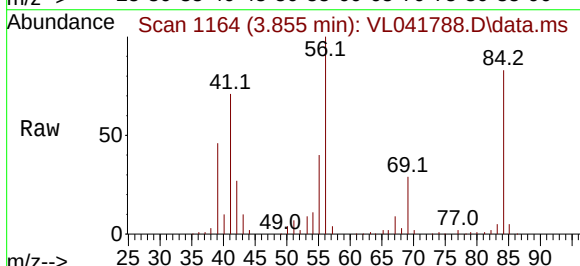
Tgt Ion: 84 Resp: 74346

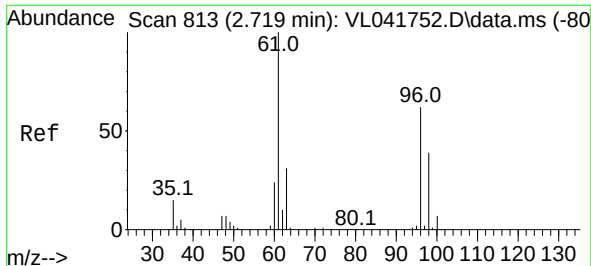
Ion Ratio Lower Upper

84 100

56 122.7 102.3 153.5

41 91.8 74.0 111.0





#31

cis-1,2-Dichloroethene

Concen: 8.567 ppbv

RT: 2.719 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

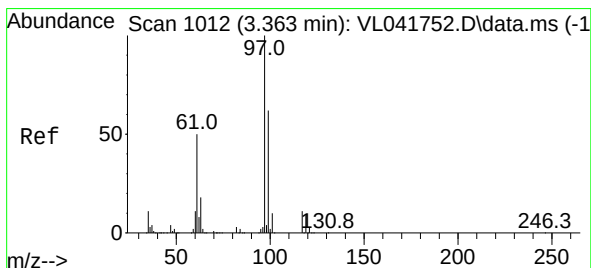
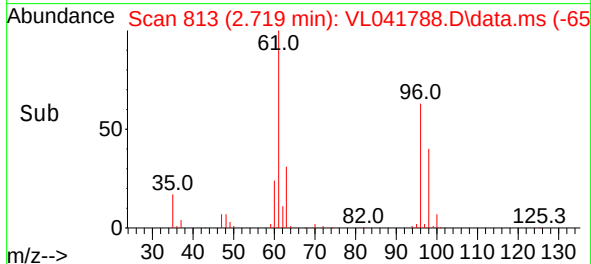
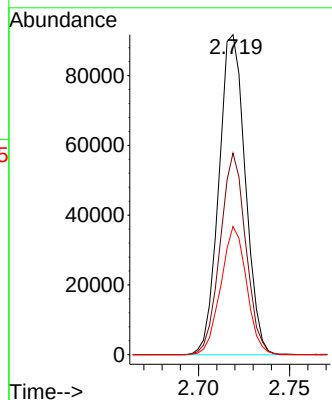
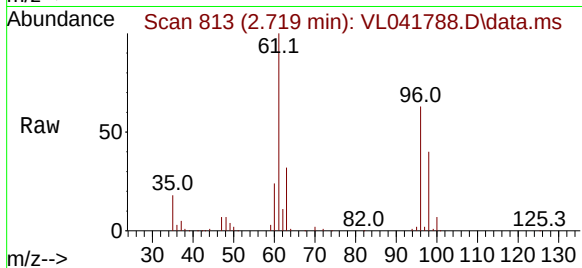
Tgt Ion: 61 Resp: 92460

Ion Ratio Lower Upper

61 100

96 63.0 49.7 74.5

98 40.0 30.8 46.2



#32

1,1,1-Trichloroethane

Concen: 8.902 ppbv

RT: 3.366 min Scan# 1013

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

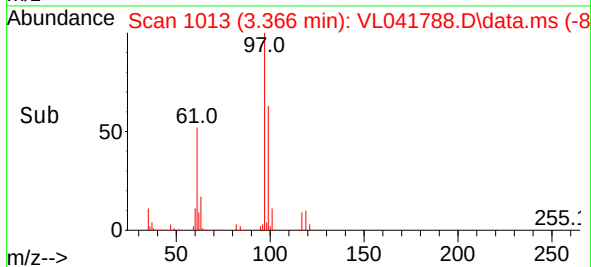
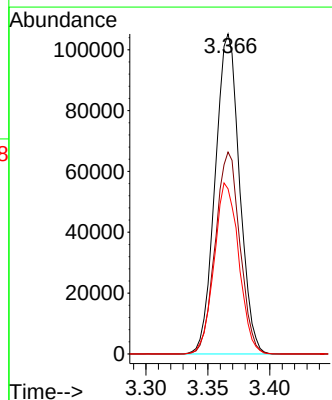
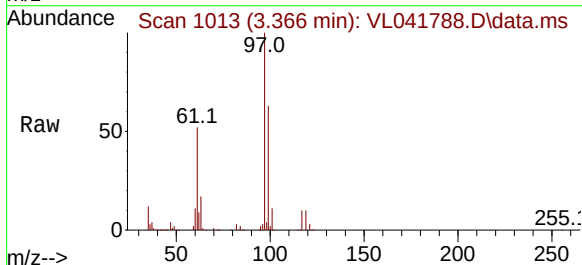
Tgt Ion: 97 Resp: 144038

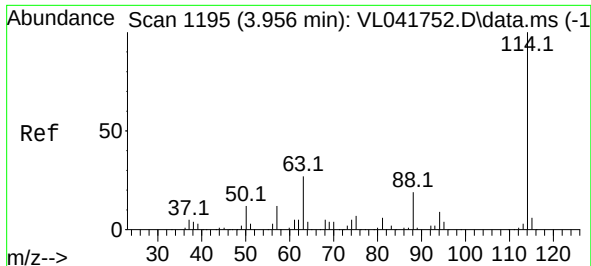
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.4

61 54.0 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.004 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

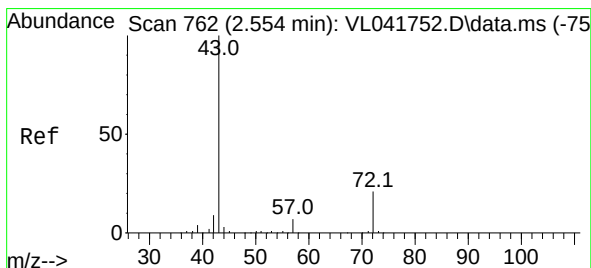
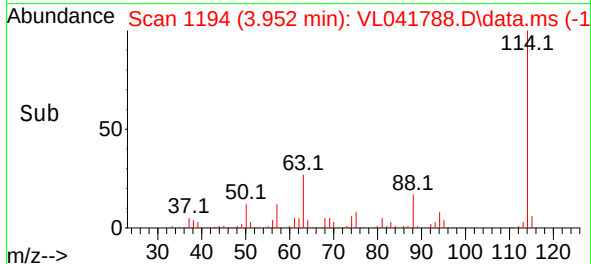
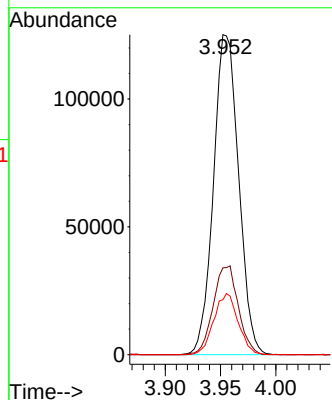
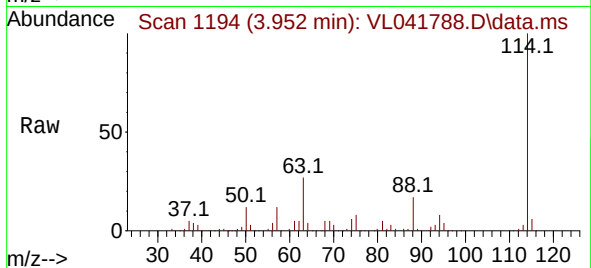
Tgt Ion:114 Resp: 198370

Ion Ratio Lower Upper

114 100

63 27.6 21.8 32.8

88 18.4 14.8 22.2



#34

2-Butanone

Concen: 8.742 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL041788.D

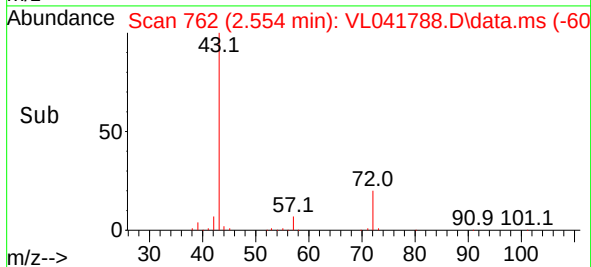
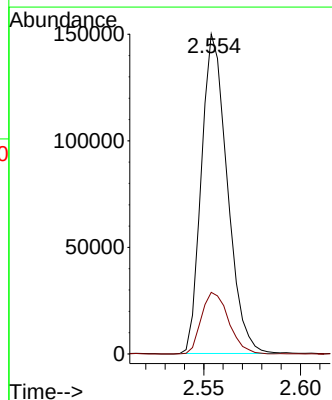
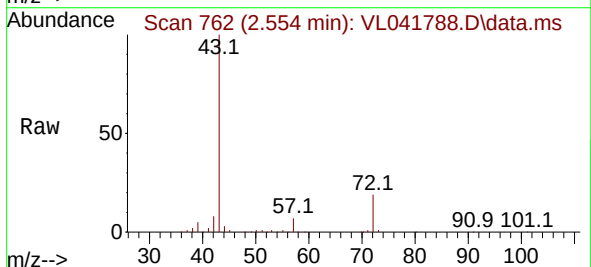
Acq: 18 Dec 2024 10:29

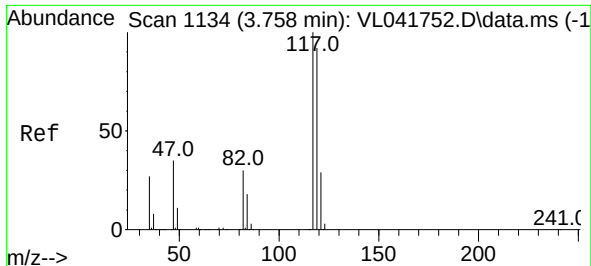
Tgt Ion: 43 Resp: 139509

Ion Ratio Lower Upper

43 100

72 20.5 16.8 25.2

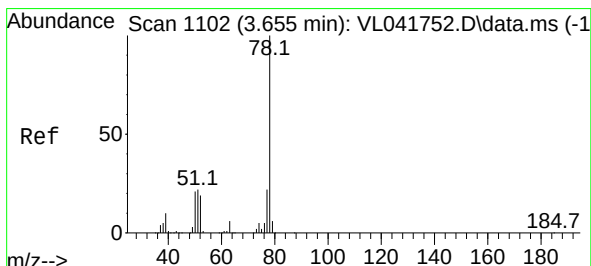
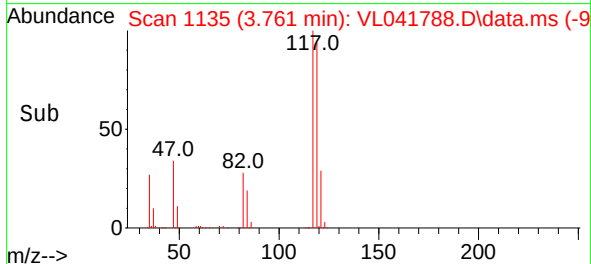
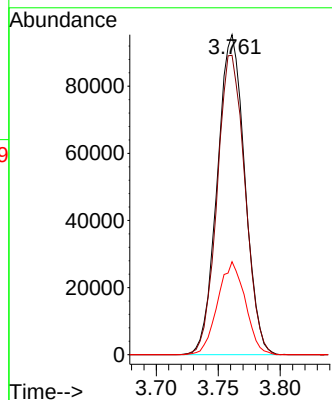
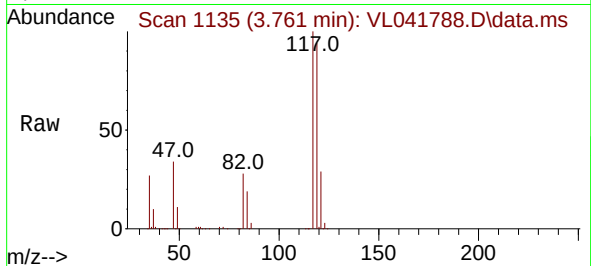




#35
Carbon Tetrachloride
Concen: 10.490 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

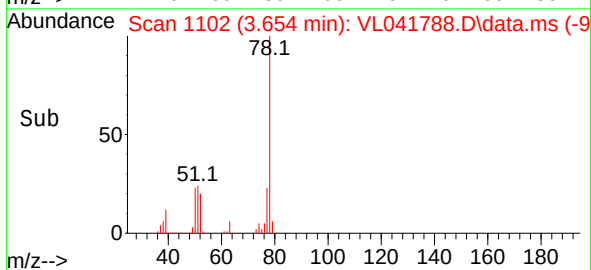
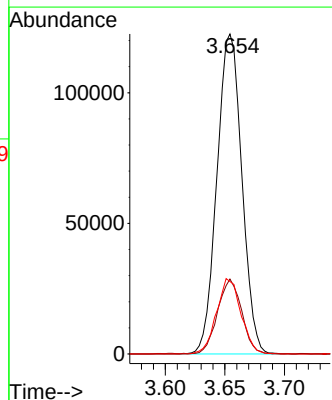
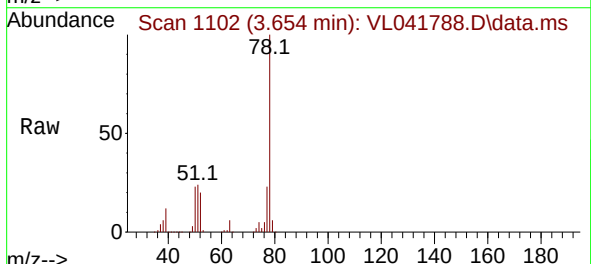
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

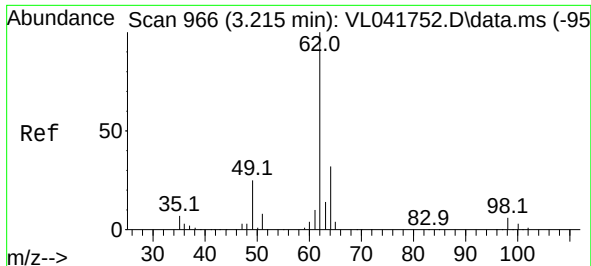
Tgt Ion:117 Resp: 147726
Ion Ratio Lower Upper
117 100
119 93.5 73.7 110.5
121 29.1 23.0 34.4



#36
Benzene
Concen: 8.680 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 78 Resp: 178114
Ion Ratio Lower Upper
78 100
77 23.3 17.8 26.6
50 22.6 17.2 25.8





#37

1,2-Dichloroethane

Concen: 9.509 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

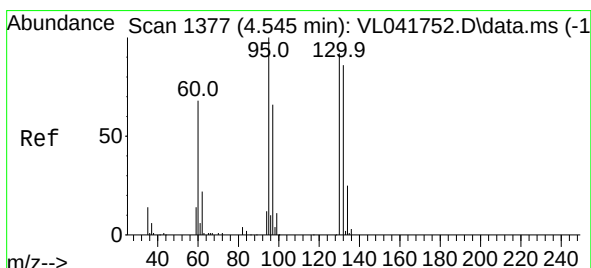
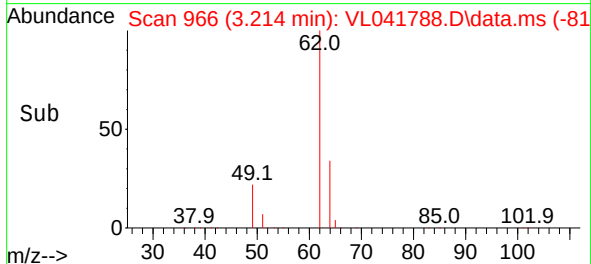
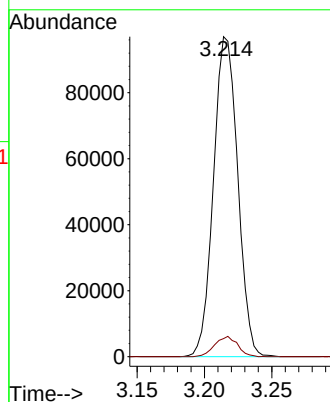
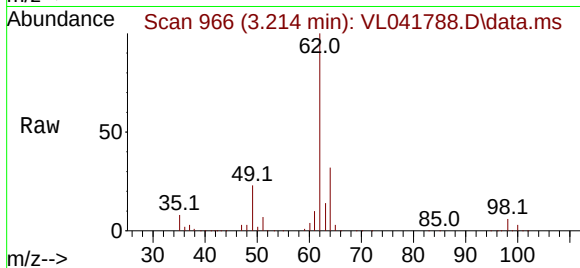
VSTDCCC010

Tgt Ion: 62 Resp: 121412

Ion Ratio Lower Upper

62 100

98 6.0 4.7 7.1



#38

Trichloroethene

Concen: 8.057 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion:130 Resp: 70175

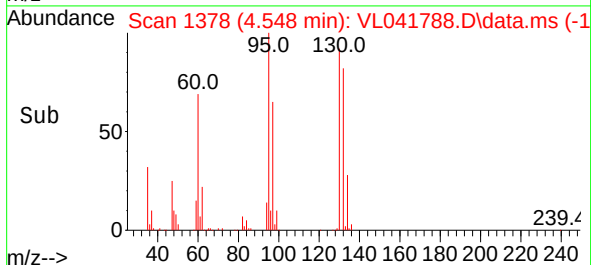
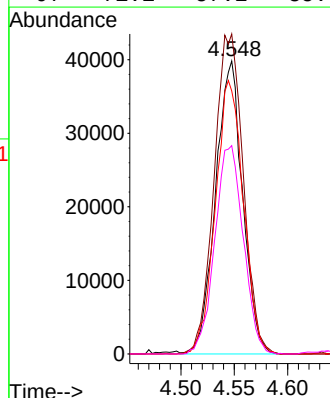
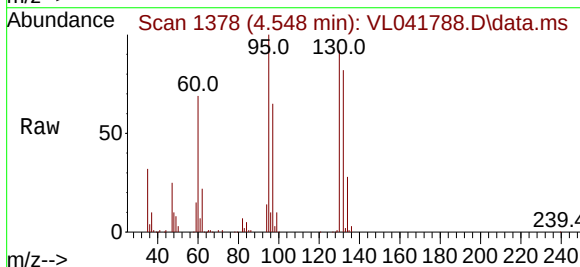
Ion Ratio Lower Upper

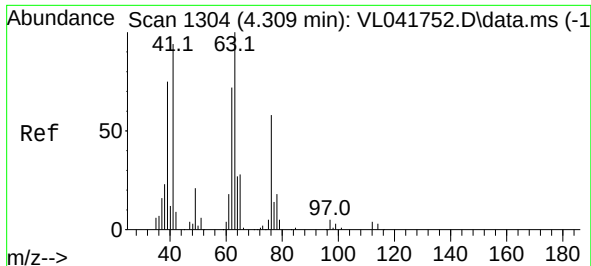
130 100

95 109.2 87.0 130.6

132 89.8 75.0 112.6

97 71.1 57.2 85.8





#39

1,2-Dichloropropane

Concen: 8.645 ppbv

RT: 4.308 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

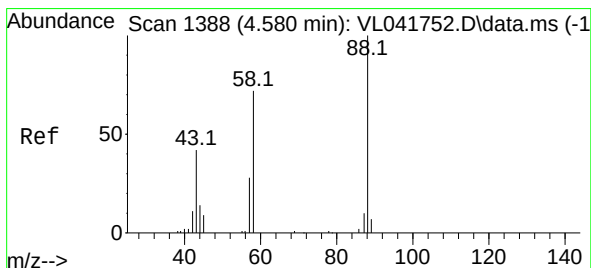
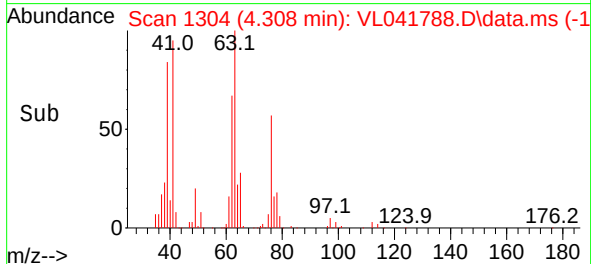
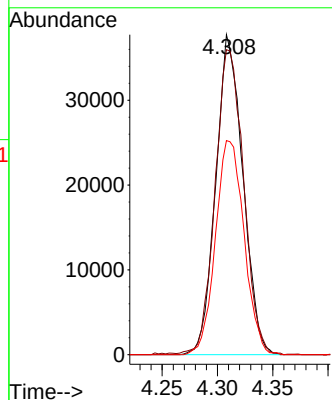
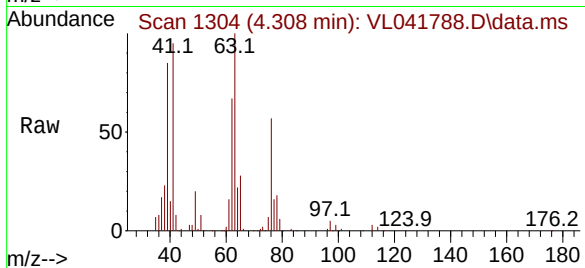
Tgt Ion: 63 Resp: 64154

Ion Ratio Lower Upper

63 100

41 94.8 75.3 112.9

62 66.9 57.3 85.9



#40

1,4-Dioxane

Concen: 8.347 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion: 88 Resp: 30262

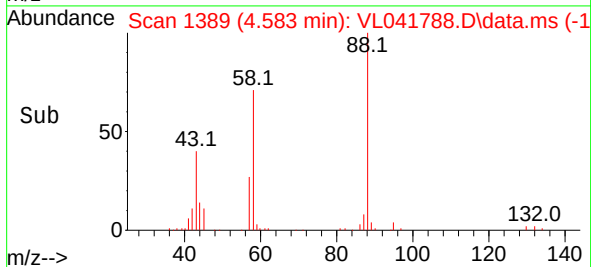
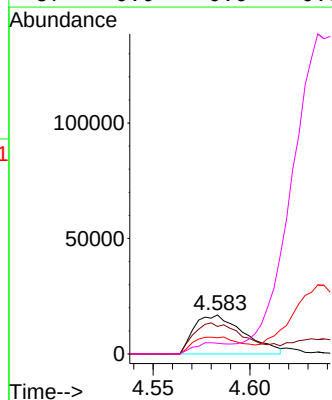
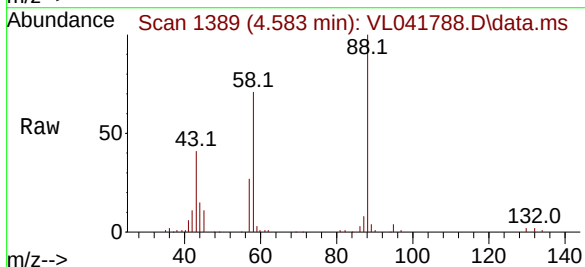
Ion Ratio Lower Upper

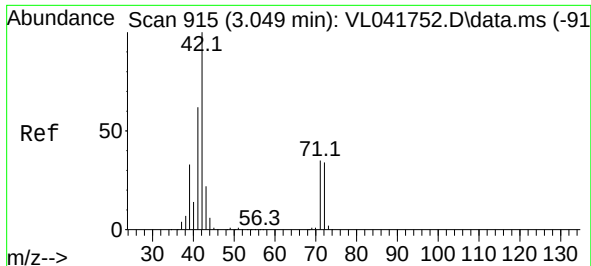
88 100

58 79.3 61.0 91.6

43 40.5 29.4 44.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 8.359 ppbv

RT: 3.052 min Scan# 915

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

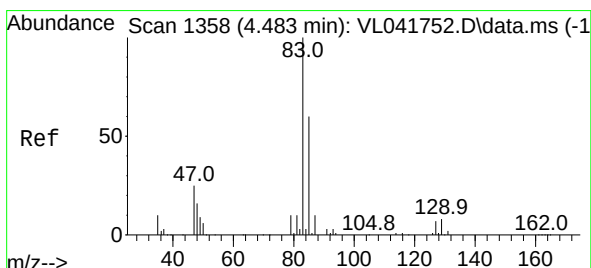
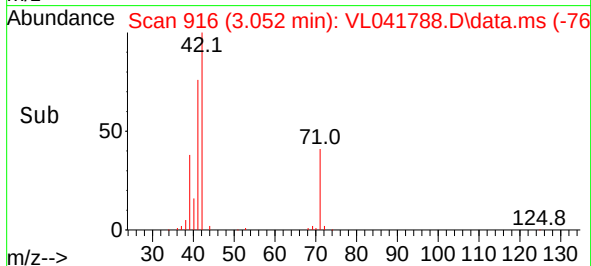
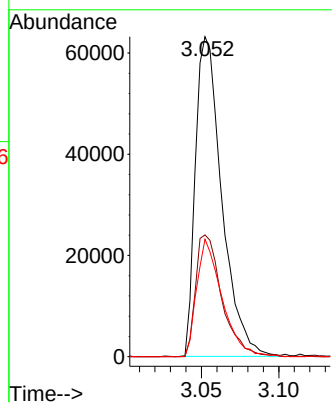
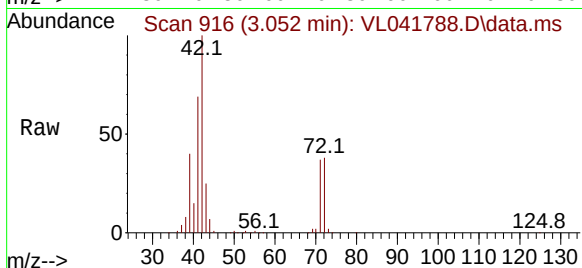
Tgt Ion: 42 Resp: 74734

Ion Ratio Lower Upper

42 100

72 38.0 29.1 43.7

71 35.3 28.4 42.6



#42

Bromodichloromethane

Concen: 9.588 ppbv

RT: 4.486 min Scan# 1359

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

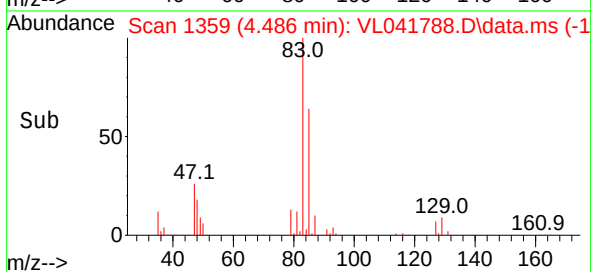
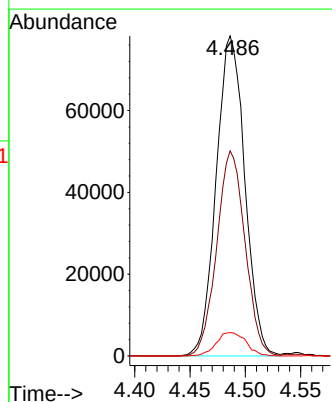
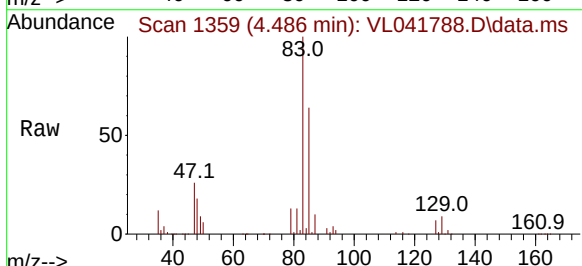
Tgt Ion: 83 Resp: 140832

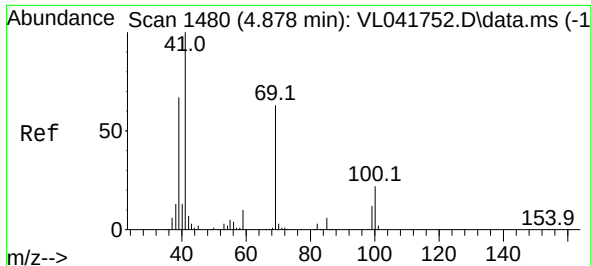
Ion Ratio Lower Upper

83 100

85 64.1 48.0 72.0

127 7.3 5.8 8.8





#43

Methyl Methacrylate

Concen: 8.895 ppbv

RT: 4.878 min Scan# 1480

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

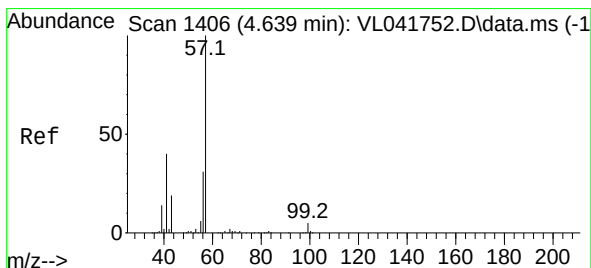
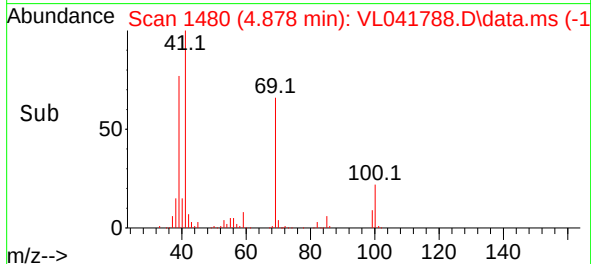
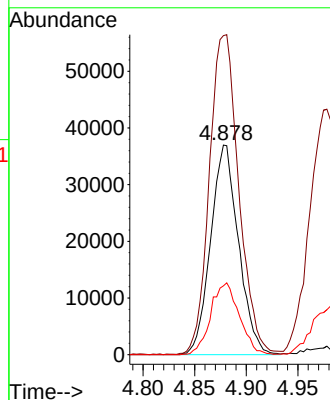
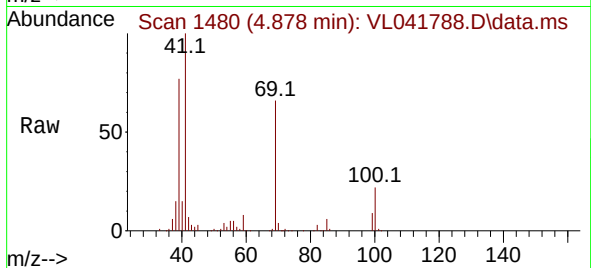
Tgt Ion: 69 Resp: 69545

Ion Ratio Lower Upper

69 100

41 161.4 130.3 195.5

100 35.2 28.3 42.5



#44

2,2,4-Trimethylpentane

Concen: 8.627 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.004 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

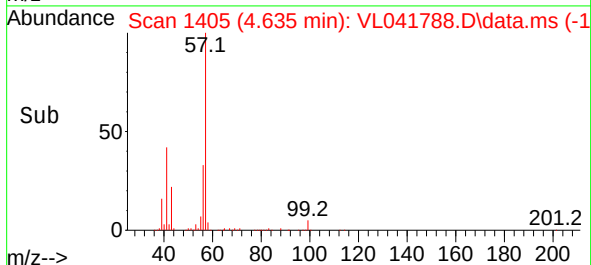
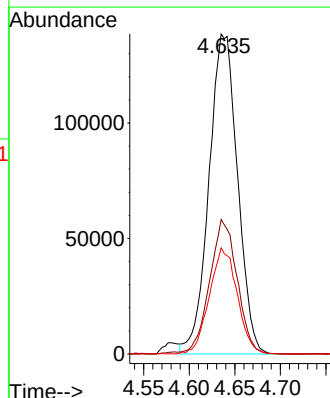
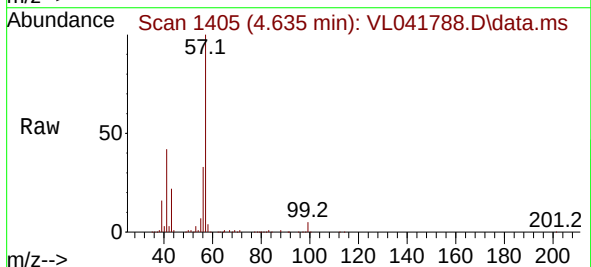
Tgt Ion: 57 Resp: 302332

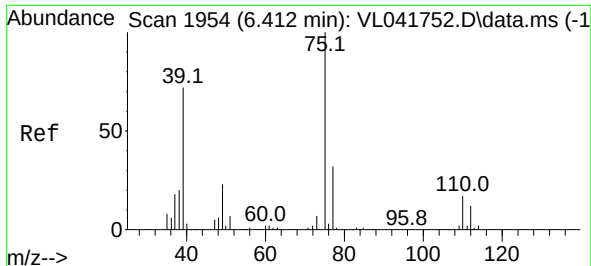
Ion Ratio Lower Upper

57 100

41 40.7 30.7 46.1

56 32.3 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 8.607 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

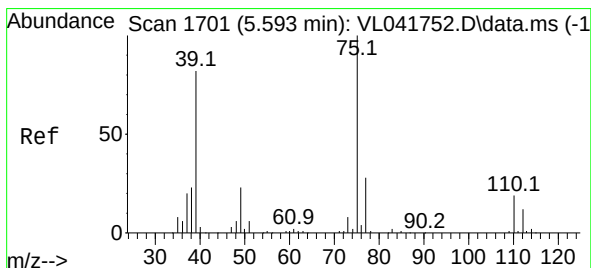
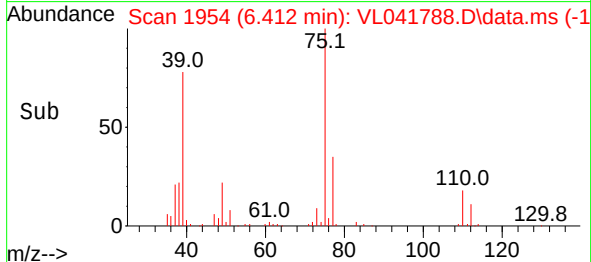
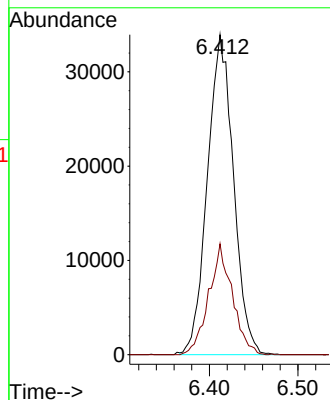
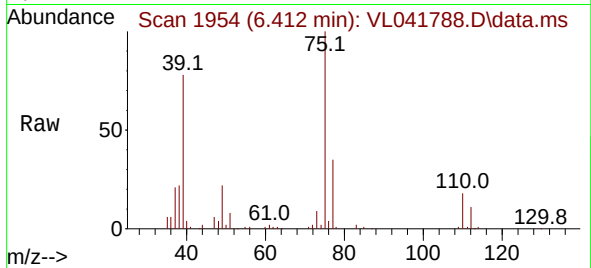
VSTDCCC010

Tgt Ion: 75 Resp: 69601

Ion Ratio Lower Upper

75 100

77 34.6 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 5.084 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

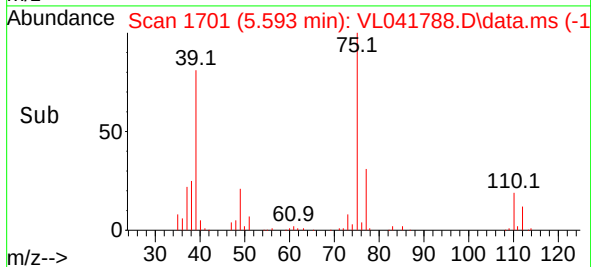
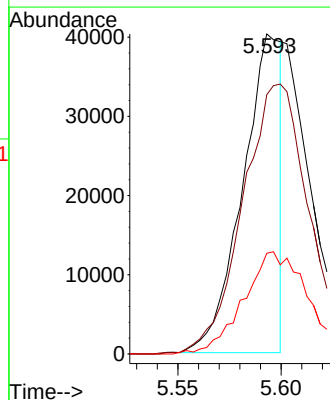
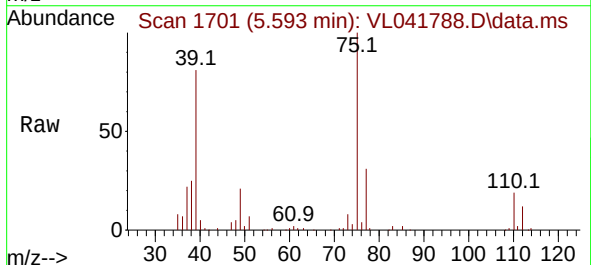
Tgt Ion: 75 Resp: 52196

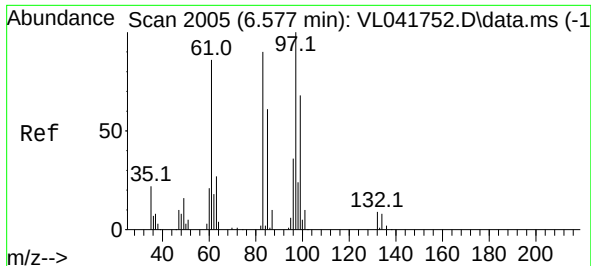
Ion Ratio Lower Upper

75 100

39 80.8 65.2 97.8

77 31.1 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 8.736 ppbv

RT: 6.580 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 67717

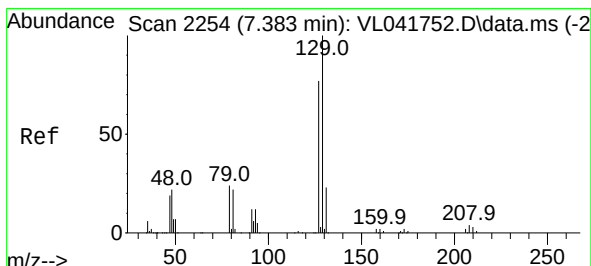
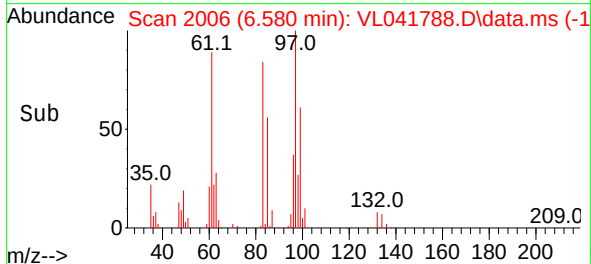
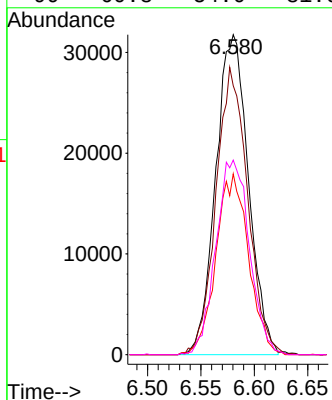
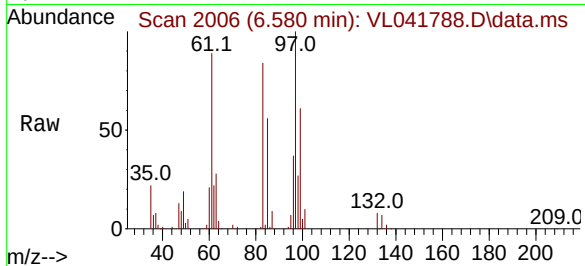
Ion Ratio Lower Upper

97 100

83 84.1 72.3 108.5

85 56.5 48.5 72.7

99 60.8 54.0 81.0



#48

Dibromochloromethane

Concen: 9.625 ppbv

RT: 7.386 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL041788.D

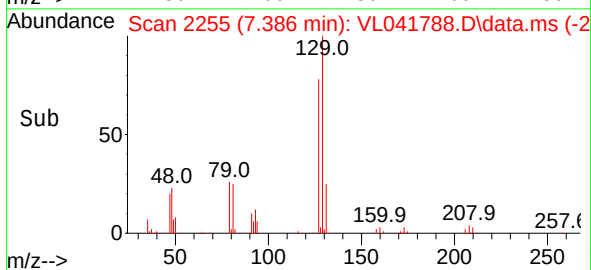
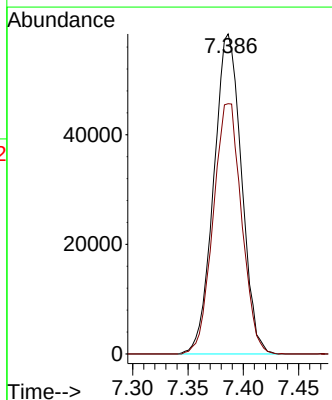
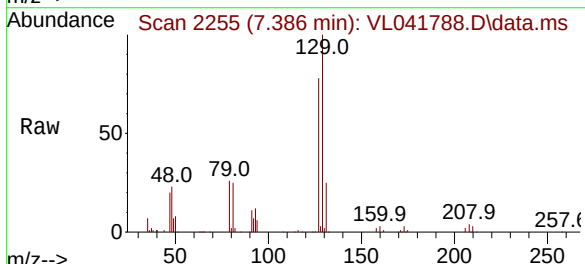
Acq: 18 Dec 2024 10:29

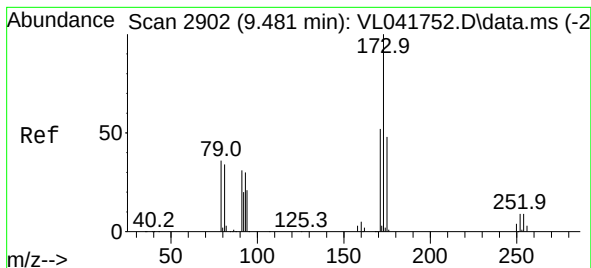
Tgt Ion: 129 Resp: 101875

Ion Ratio Lower Upper

129 100

127 80.0 38.8 116.3





#49

Bromoform

Concen: 9.655 ppbv

RT: 9.483 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

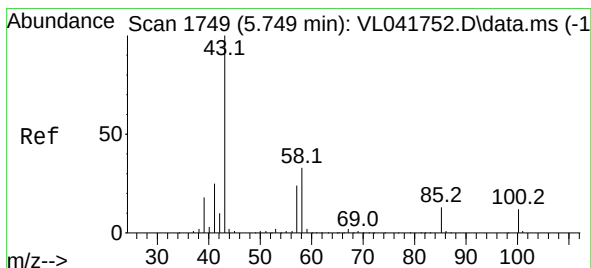
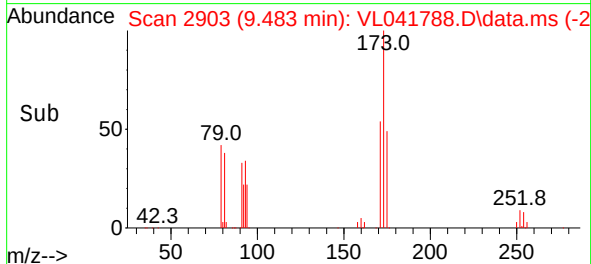
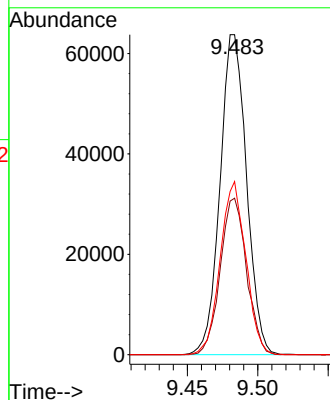
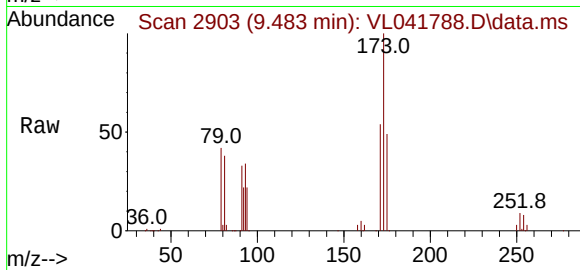
Tgt Ion:173 Resp: 83649

Ion Ratio Lower Upper

173 100

175 48.6 38.2 57.2

171 52.2 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 8.600 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.003 min

Lab File: VL041788.D

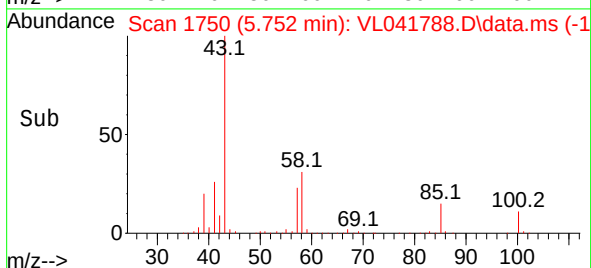
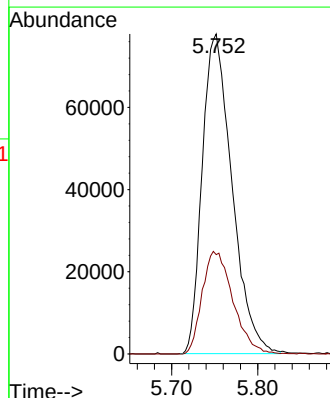
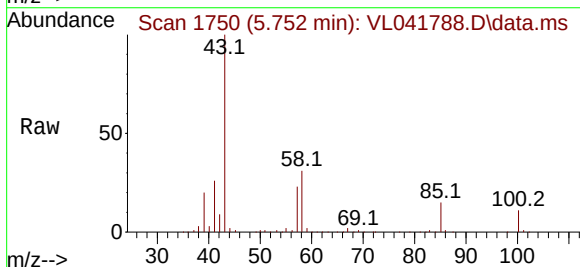
Acq: 18 Dec 2024 10:29

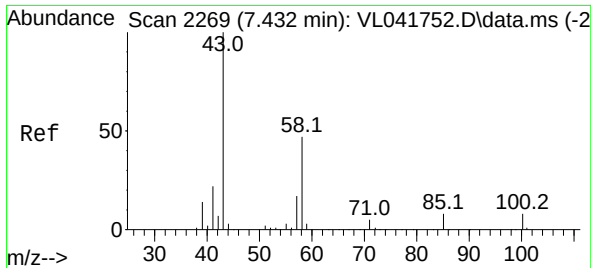
Tgt Ion: 43 Resp: 186865

Ion Ratio Lower Upper

43 100

58 33.2 26.8 40.2

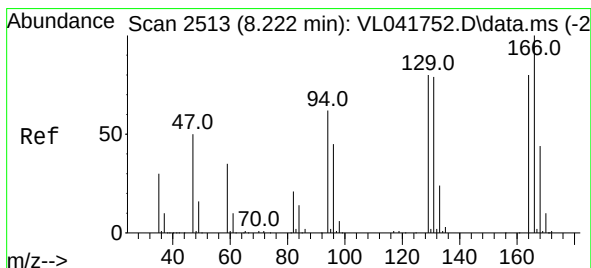
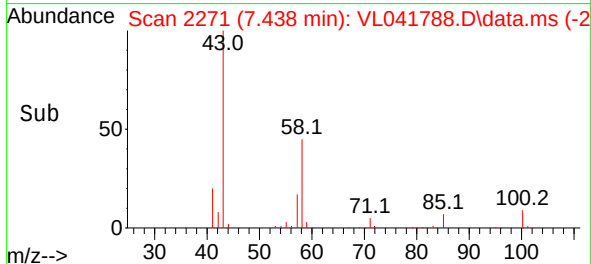
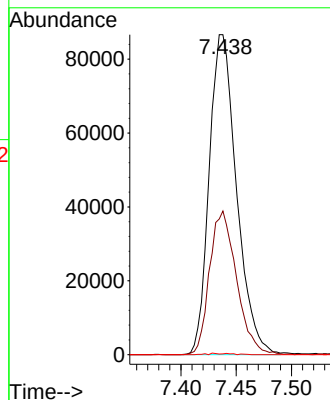
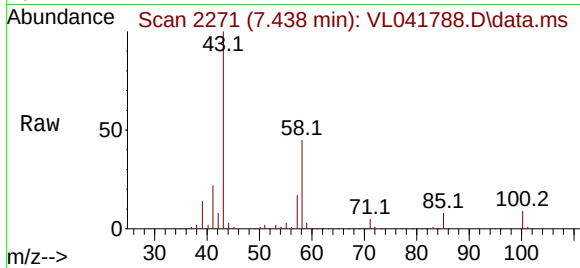




#51
2-Hexanone
Concen: 8.472 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

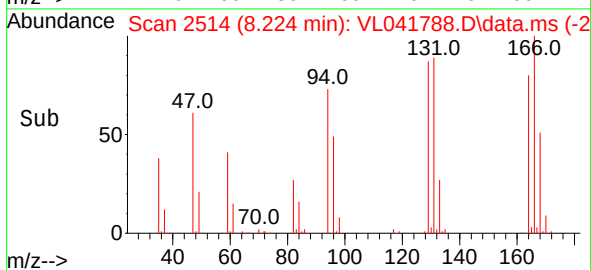
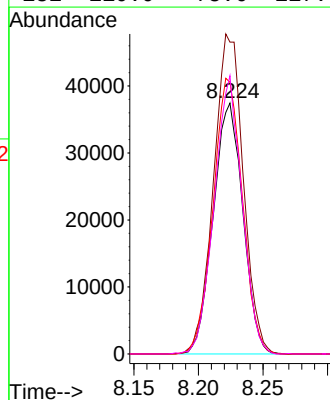
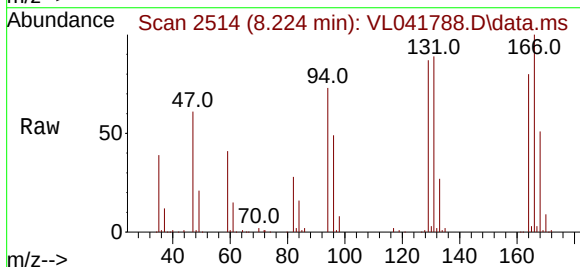
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

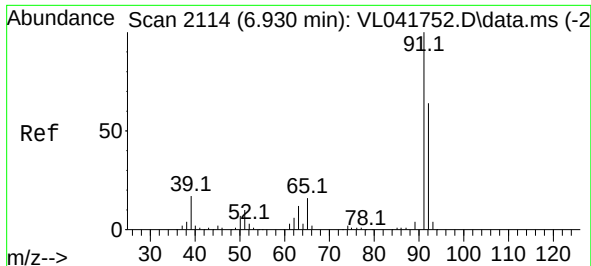
Tgt Ion: 43 Resp: 149217
Ion Ratio Lower Upper
43 100
58 44.3 36.6 55.0
98 0.4 0.1 0.1#



#52
Tetrachloroethene
Concen: 7.824 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion: 164 Resp: 59756
Ion Ratio Lower Upper
164 100
166 124.1 99.8 149.6
129 108.3 79.6 119.4
131 110.9 78.6 117.8





#53

Toluene

Concen: 8.389 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

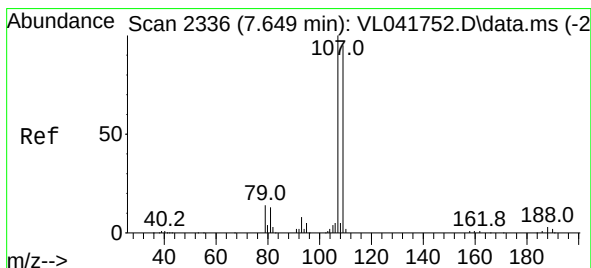
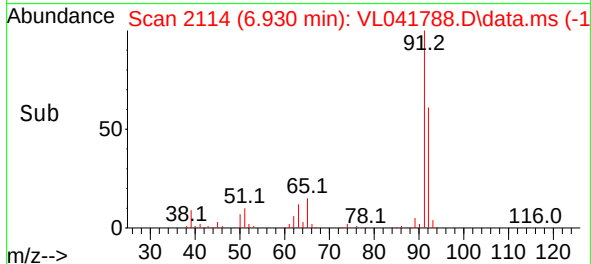
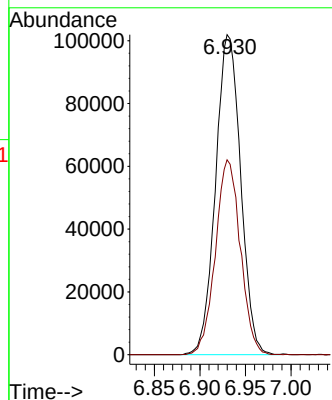
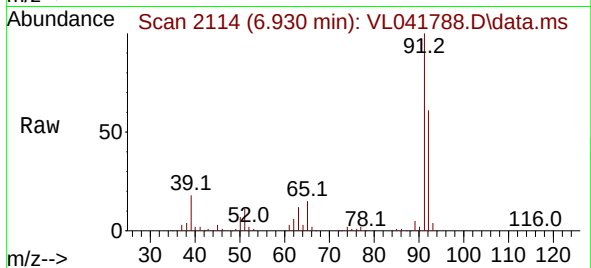
VSTDCCC010

Tgt Ion: 91 Resp: 195158

Ion Ratio Lower Upper

91 100

92 60.5 47.9 71.9



#54

1,2-Dibromoethane

Concen: 8.814 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL041788.D

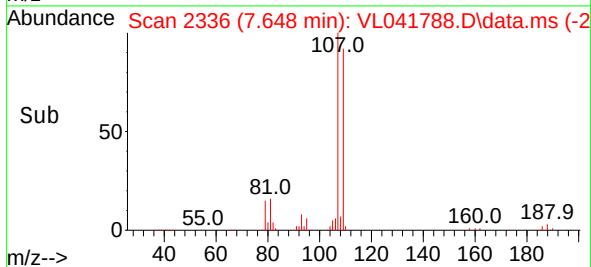
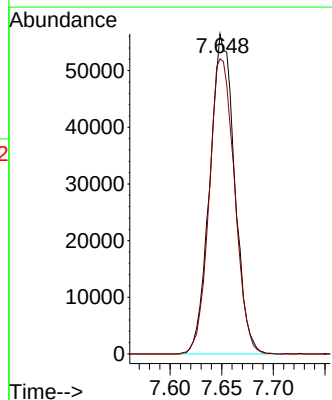
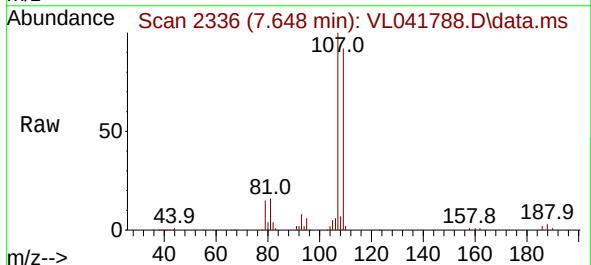
Acq: 18 Dec 2024 10:29

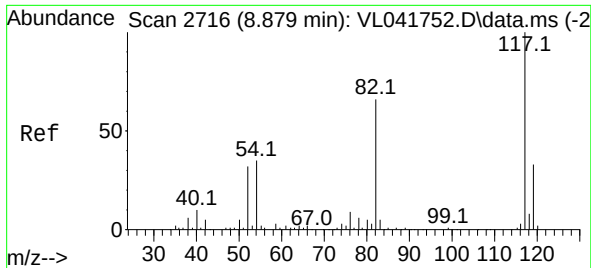
Tgt Ion:107 Resp: 94138

Ion Ratio Lower Upper

107 100

109 92.2 75.9 113.9

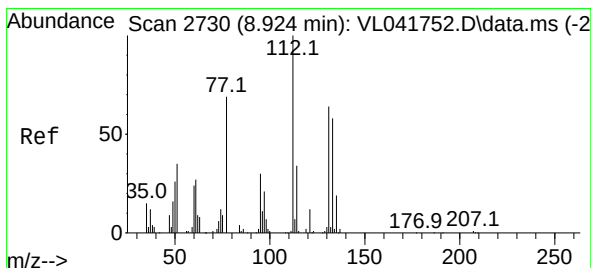
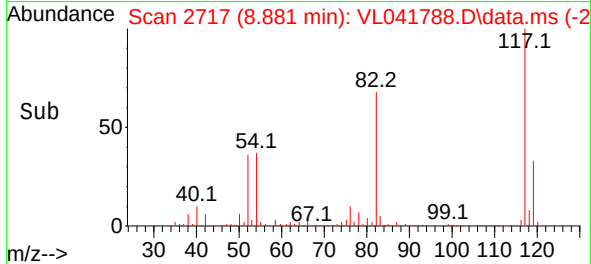
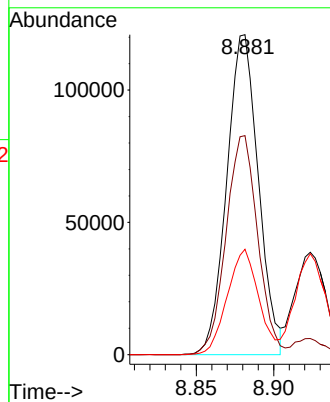
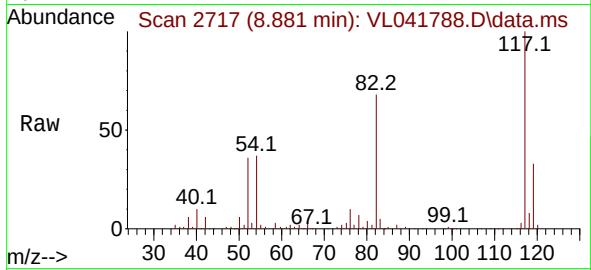




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

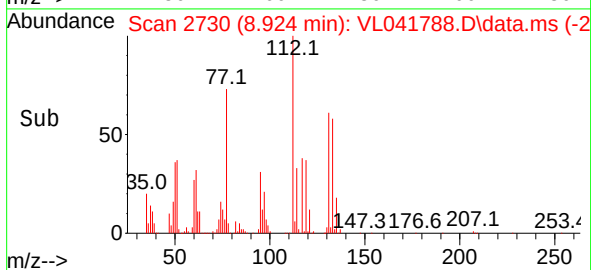
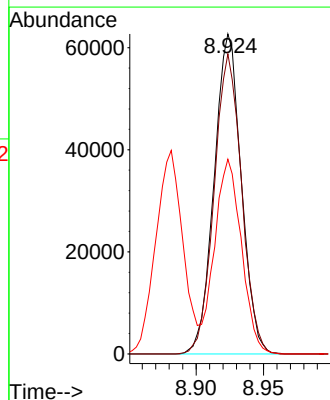
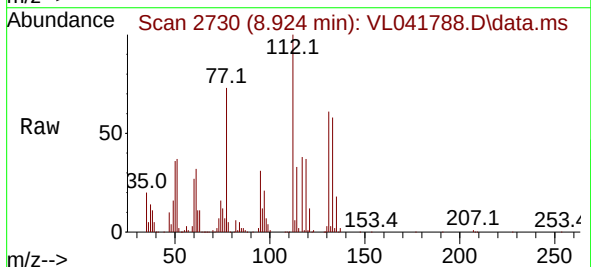
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

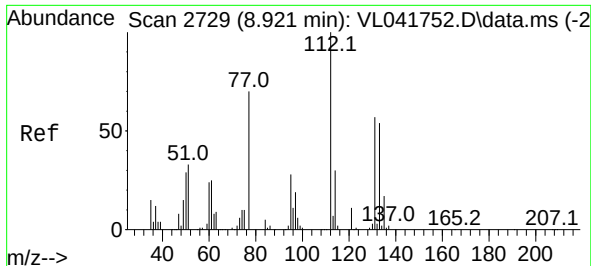
Tgt Ion:117 Resp: 172190
Ion Ratio Lower Upper
117 100
82 73.5 53.8 80.8
119 33.1 26.7 40.1



#56
1,1,1,2-Tetrachloroethane
Concen: 9.626 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:131 Resp: 87869
Ion Ratio Lower Upper
131 100
133 94.8 76.8 115.2
119 60.8 49.0 73.6





#57

Chlorobenzene

Concen: 8.912 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

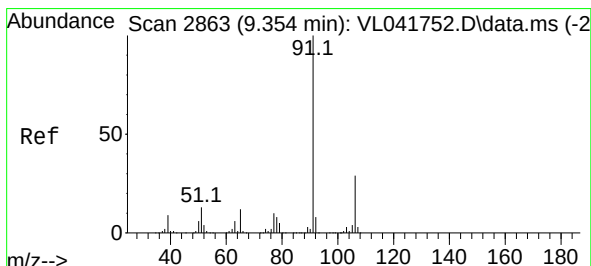
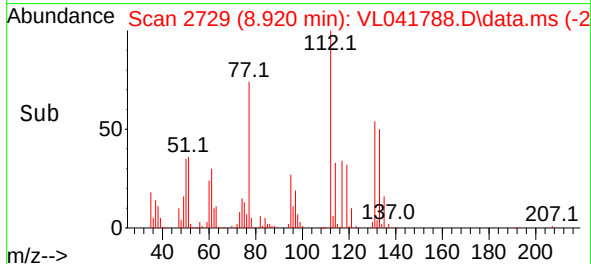
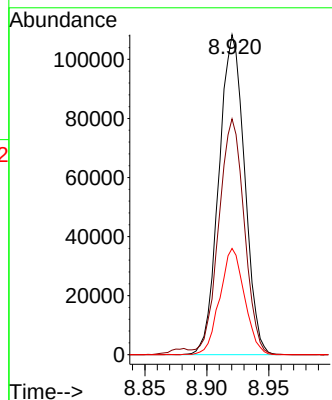
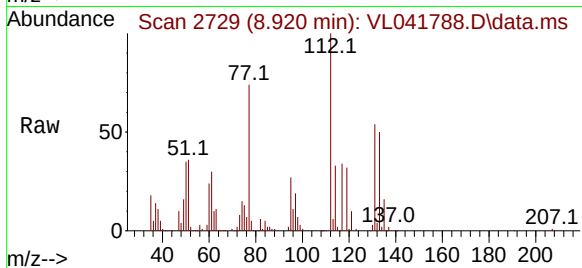
Tgt Ion:112 Resp: 157039

Ion Ratio Lower Upper

112 100

77 73.6 57.4 86.0

114 33.2 27.4 33.4



#58

Ethyl Benzene

Concen: 9.074 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.000 min

Lab File: VL041788.D

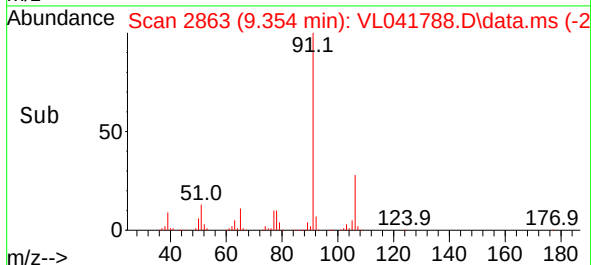
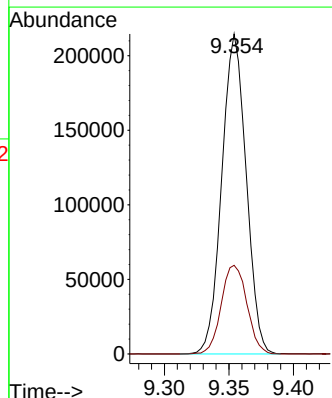
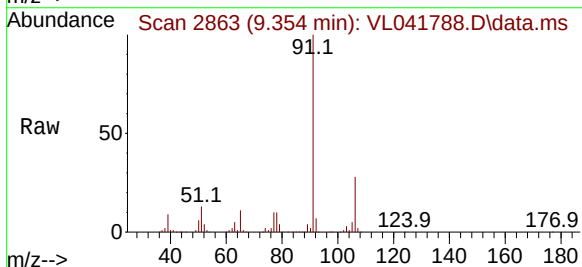
Acq: 18 Dec 2024 10:29

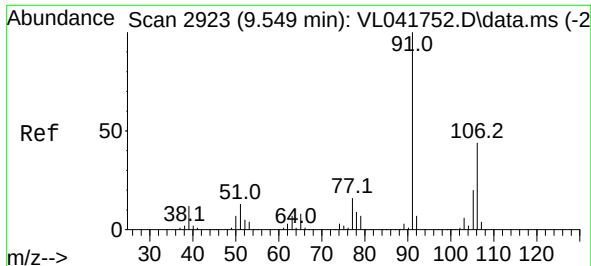
Tgt Ion: 91 Resp: 281290

Ion Ratio Lower Upper

91 100

106 27.7 23.5 35.3





#59

m/p-Xylene

Concen: 9.710 ppbv

RT: 9.548 min Scan# 242021

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

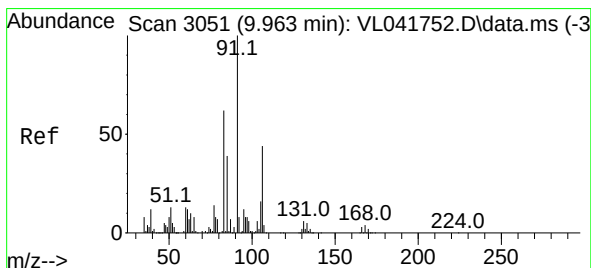
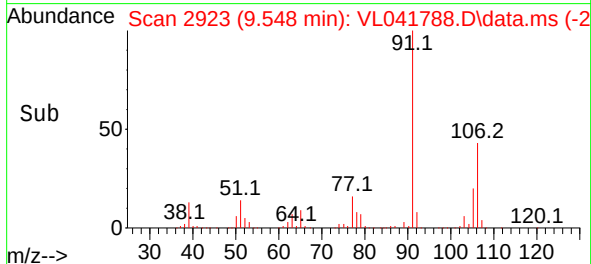
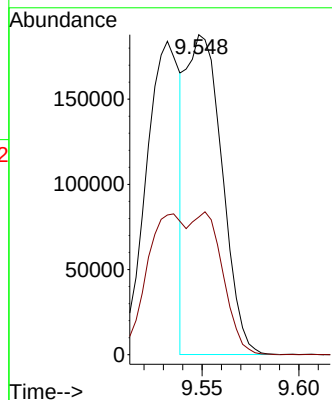
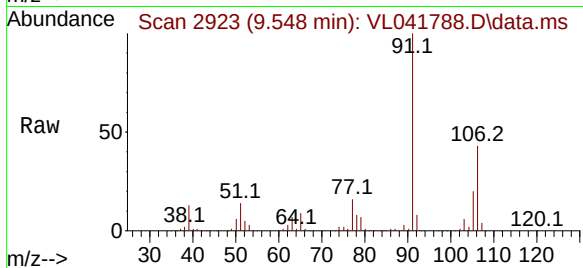
VSTDCCC010

Tgt Ion: 91 Resp: 242021

Ion Ratio Lower Upper

91 100

106 87.1 0.0 0.0#



#60

o-Xylene

Concen: 9.283 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041788.D

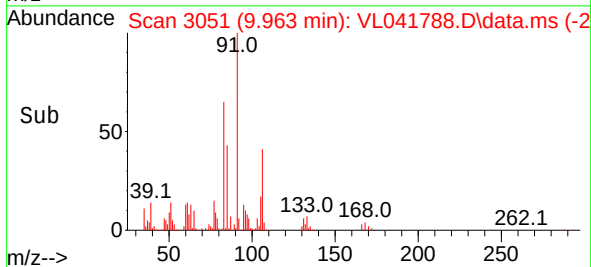
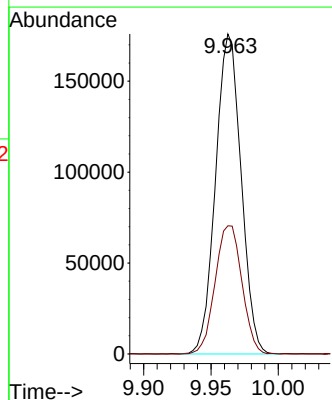
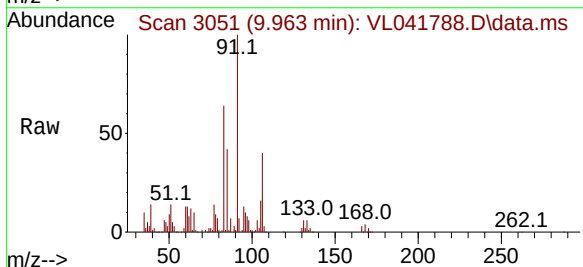
Acq: 18 Dec 2024 10:29

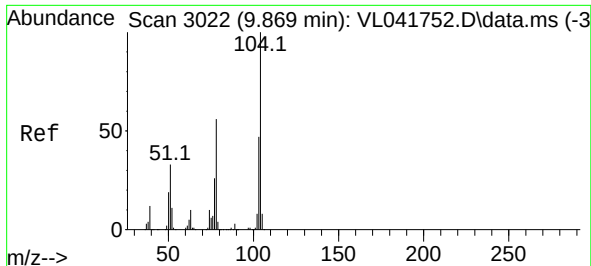
Tgt Ion: 91 Resp: 232028

Ion Ratio Lower Upper

91 100

106 42.1 21.1 63.4

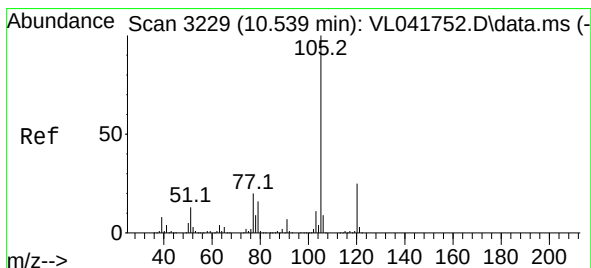
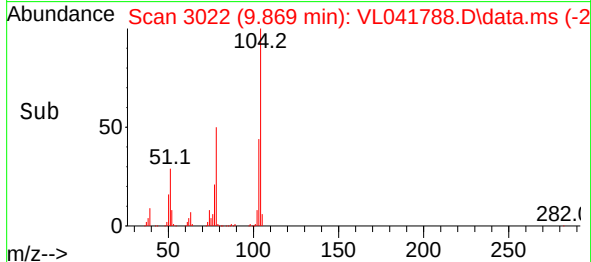
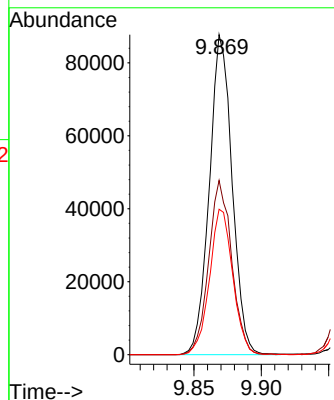
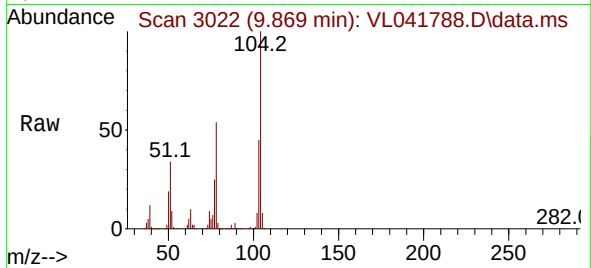




#61
Styrene
Concen: 9.550 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

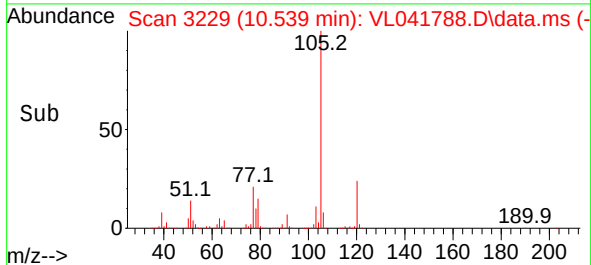
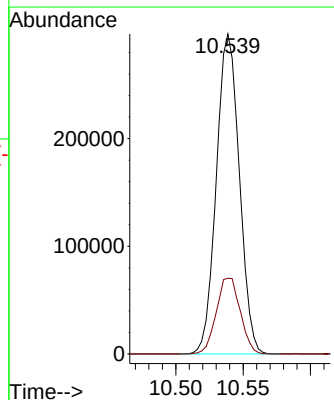
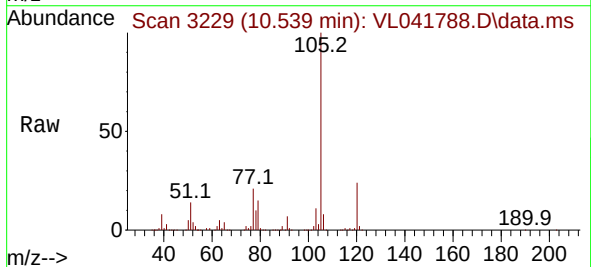
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

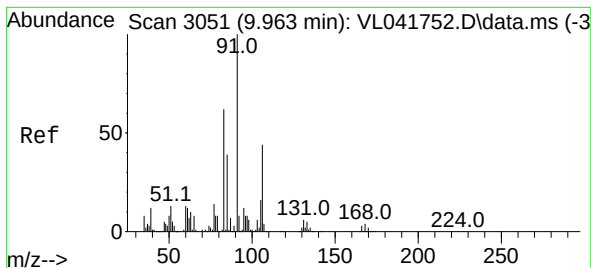
Tgt Ion:104 Resp: 103216
Ion Ratio Lower Upper
104 100
78 55.1 43.8 65.6
103 46.5 37.8 56.6



#62
Isopropylbenzene
Concen: 9.397 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:105 Resp: 352903
Ion Ratio Lower Upper
105 100
120 24.7 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 9.216 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

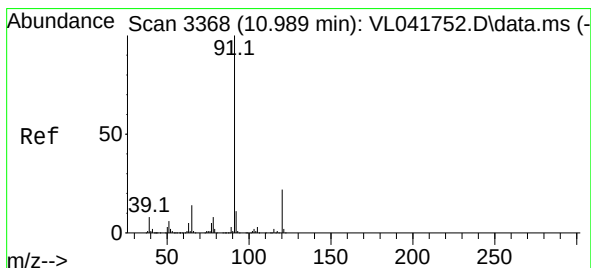
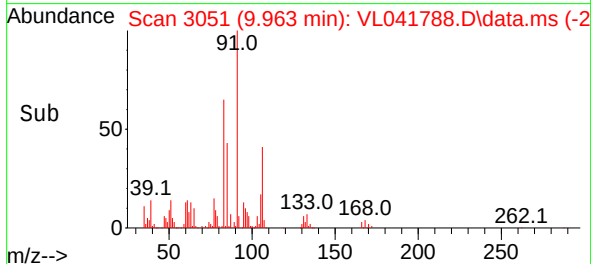
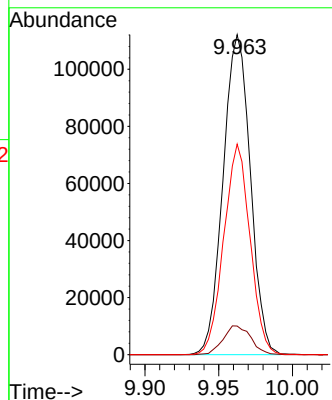
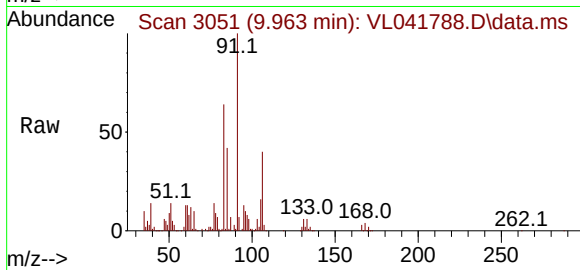
Tgt Ion: 83 Resp: 144197

Ion Ratio Lower Upper

83 100

131 9.2 4.9 14.7

85 63.4 32.0 96.2



#64

n-propylbenzene

Concen: 9.483 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL041788.D

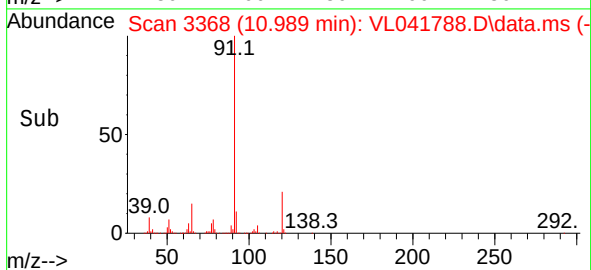
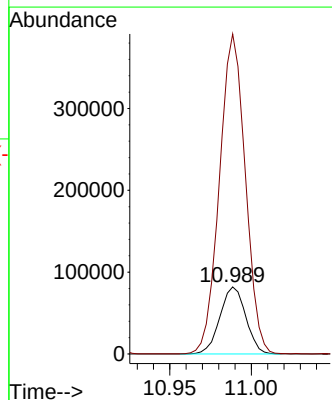
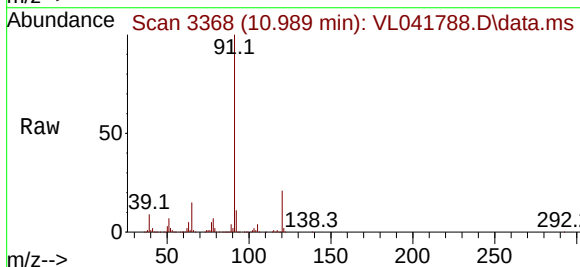
Acq: 18 Dec 2024 10:29

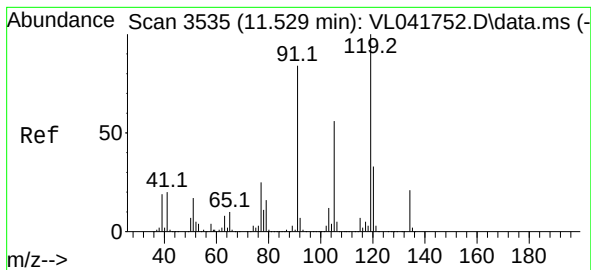
Tgt Ion:120 Resp: 90043

Ion Ratio Lower Upper

120 100

91 480.1 387.3 580.9





#65

tert-Butylbenzene

Concen: 9.295 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

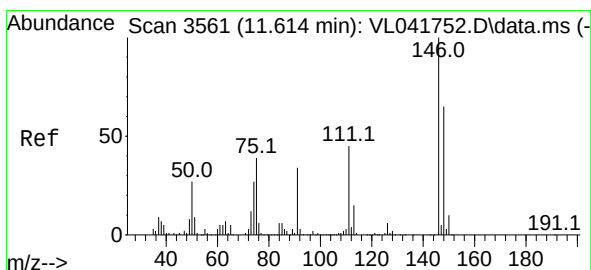
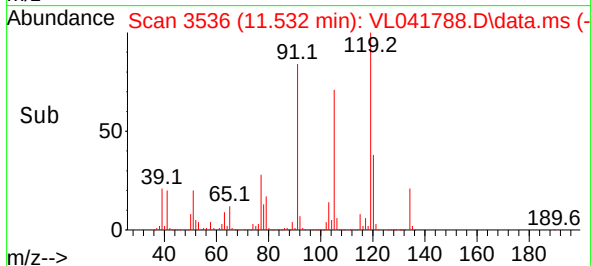
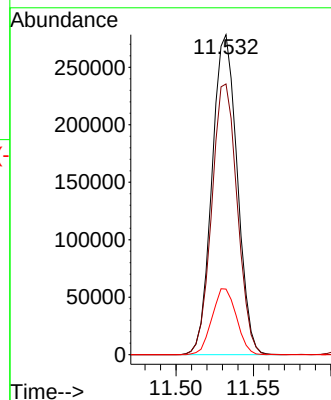
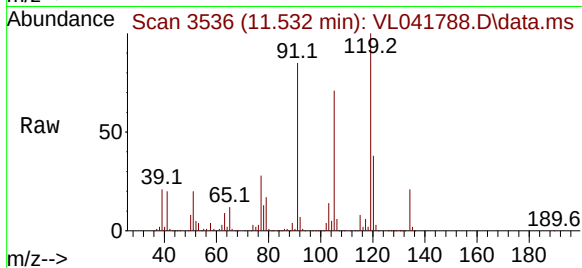
Tgt Ion:119 Resp: 314940

Ion Ratio Lower Upper

119 100

91 85.5 67.0 100.4

134 19.9 16.5 24.7



#66

Benzyl Chloride

Concen: 7.426 ppbv

RT: 11.616 min Scan# 3562

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

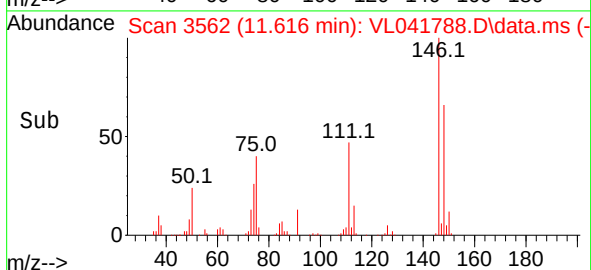
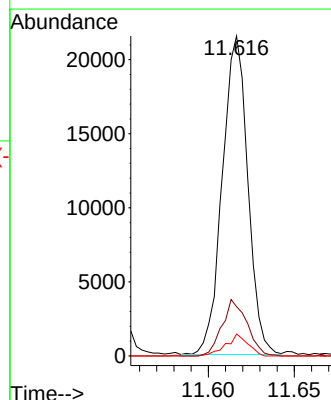
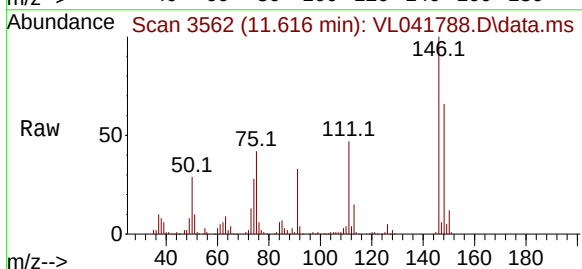
Tgt Ion: 91 Resp: 22164

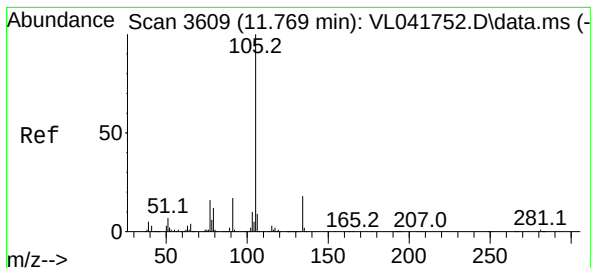
Ion Ratio Lower Upper

91 100

126 17.3 13.9 20.9

128 5.8 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.431 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

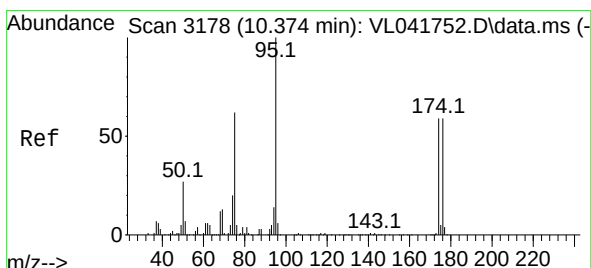
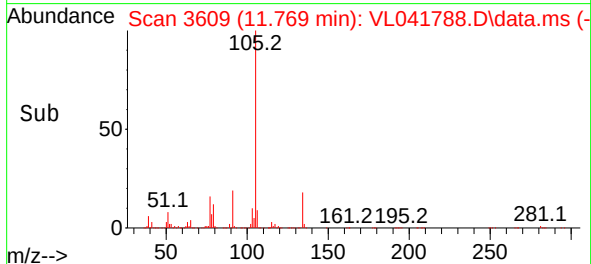
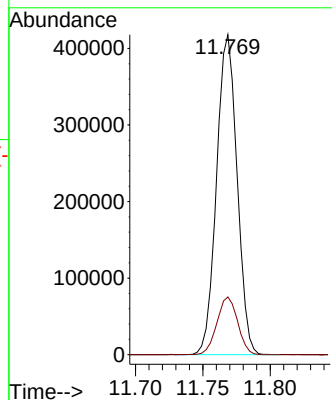
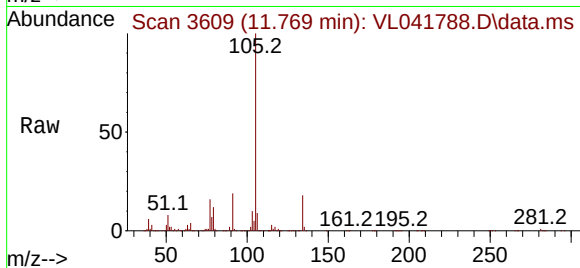
VSTDCCC010

Tgt Ion:105 Resp: 442201

Ion Ratio Lower Upper

105 100

134 18.3 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.503 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

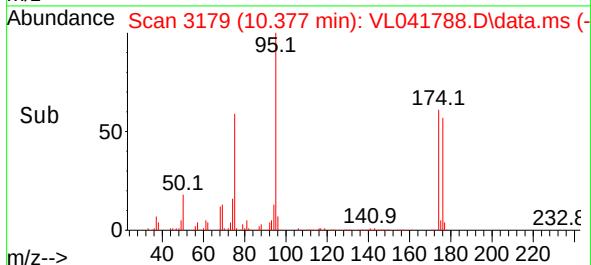
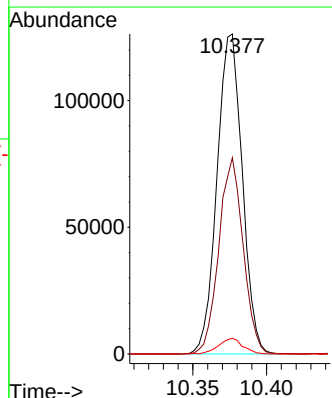
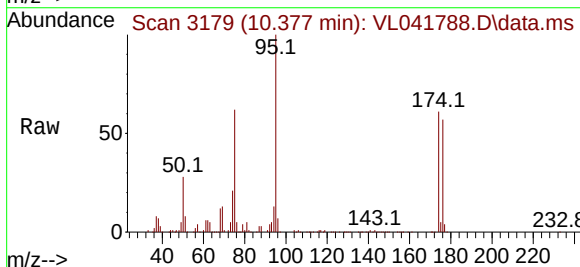
Tgt Ion: 95 Resp: 150705

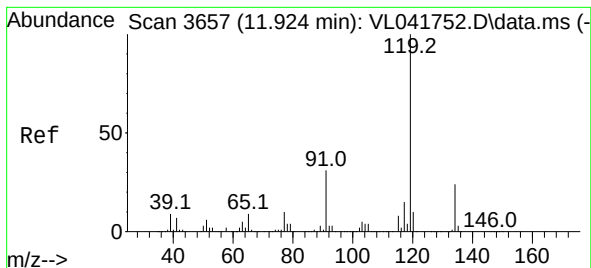
Ion Ratio Lower Upper

95 100

174 59.0 47.6 71.4

175 4.7 3.7 5.5





#69

p-Isopropyltoluene

Concen: 9.569 ppbv

RT: 11.927 min Scan# 3657

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

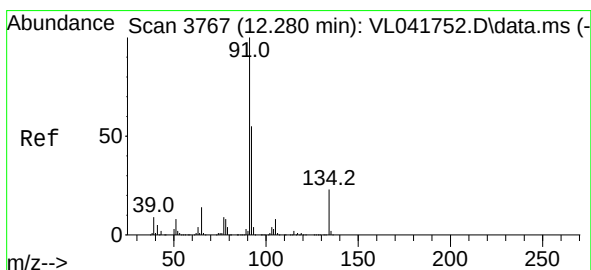
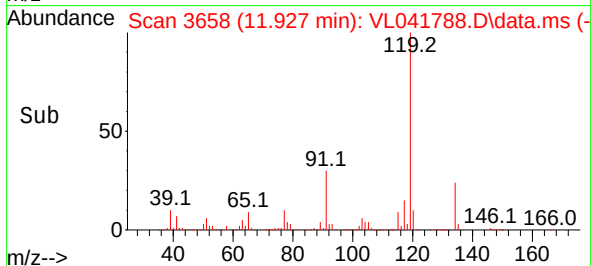
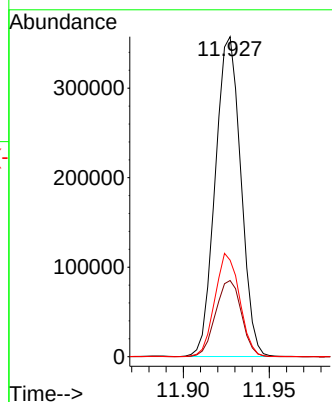
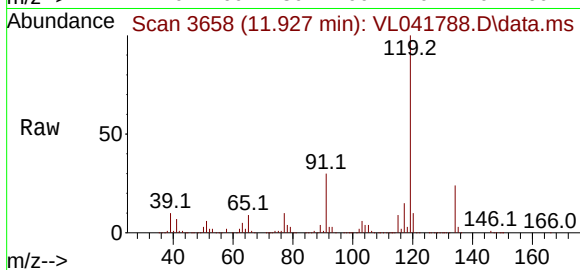
Tgt Ion:119 Resp: 369746

Ion Ratio Lower Upper

119 100

134 24.2 19.6 29.4

91 31.4 24.4 36.6



#70

n-Butylbenzene

Concen: 9.999 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

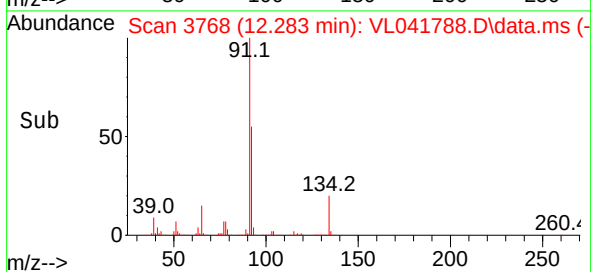
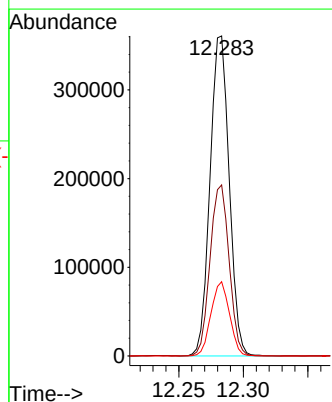
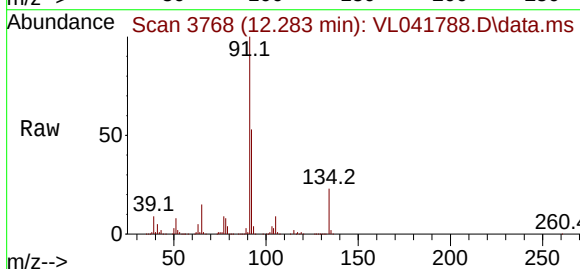
Tgt Ion: 91 Resp: 373294

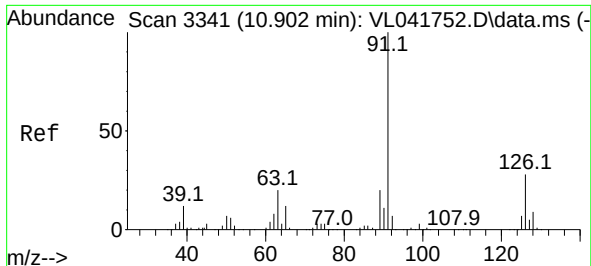
Ion Ratio Lower Upper

91 100

92 53.4 43.2 64.8

134 22.5 18.2 27.4

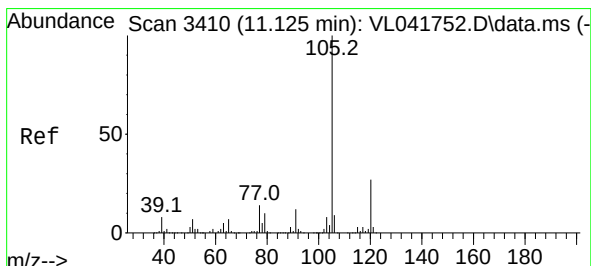
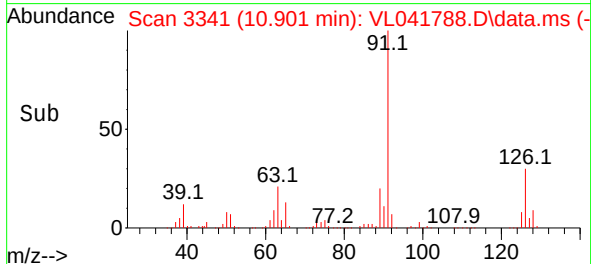
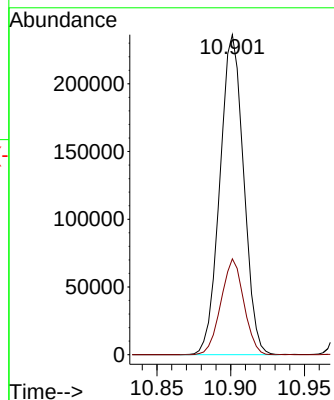
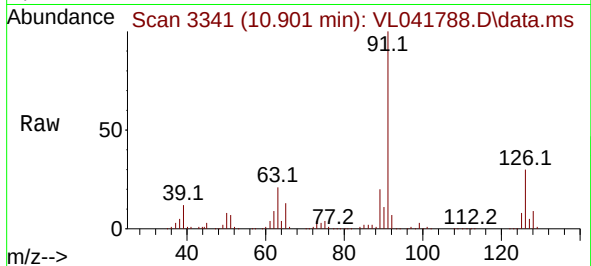




#71
2-Chlorotoluene
Concen: 9.240 ppbv
RT: 10.901 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

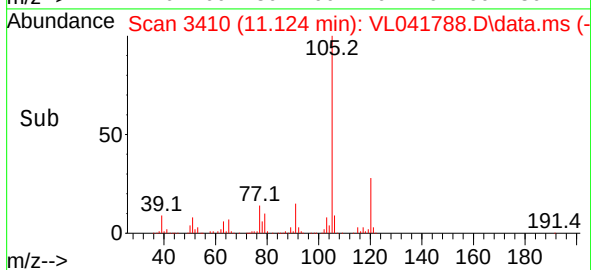
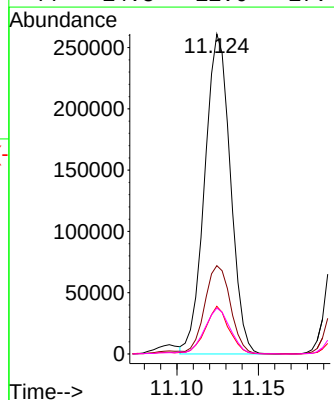
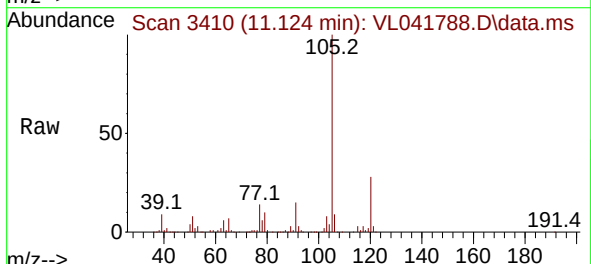
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

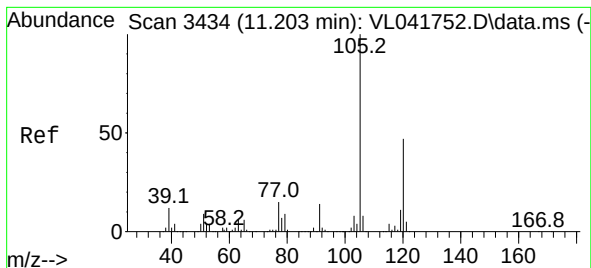
Tgt Ion: 91 Resp: 264866
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 9.676 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:105 Resp: 285469
Ion Ratio Lower Upper
105 100
120 28.7 23.3 34.9
91 14.4 10.9 16.3
77 14.8 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 9.918 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

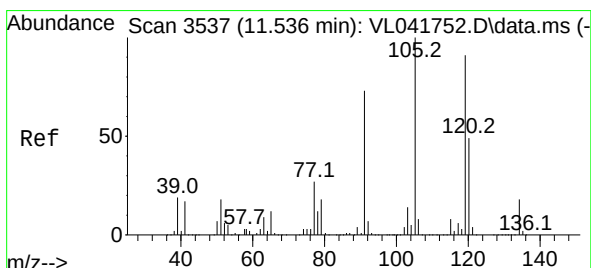
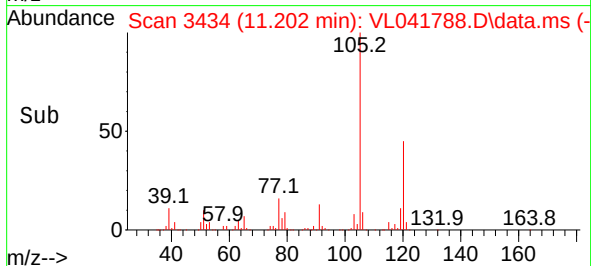
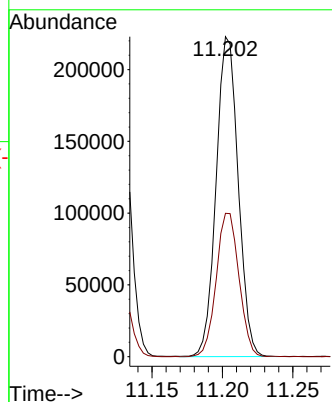
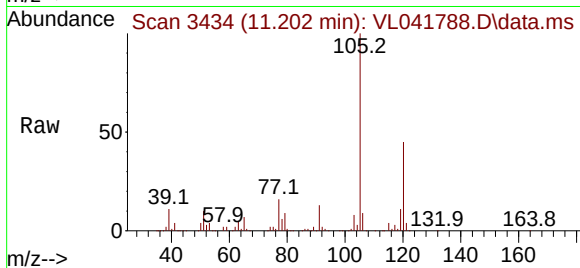
VSTDCCC010

Tgt Ion:105 Resp: 242783

Ion Ratio Lower Upper

105 100

120 44.8 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 10.003 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Tgt Ion:105 Resp: 263301

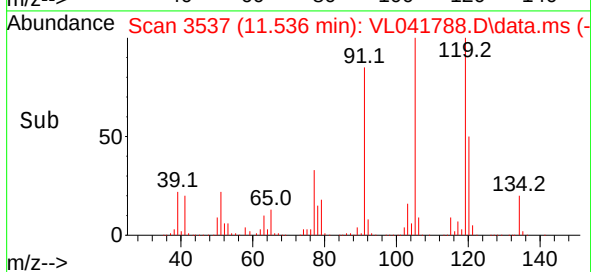
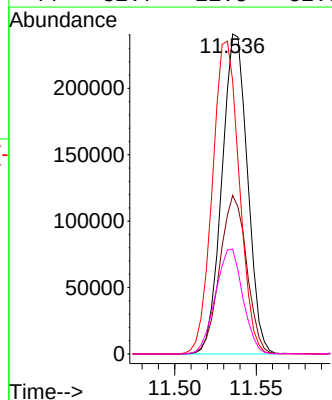
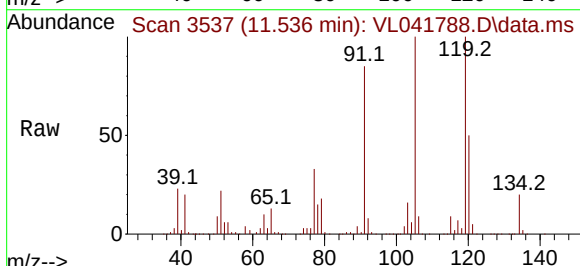
Ion Ratio Lower Upper

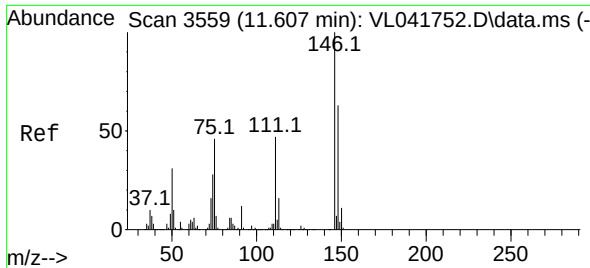
105 100

120 49.6 39.0 58.4

91 85.2 58.1 87.1

77 32.7 21.8 32.8

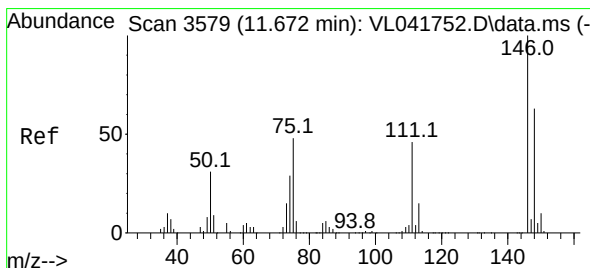
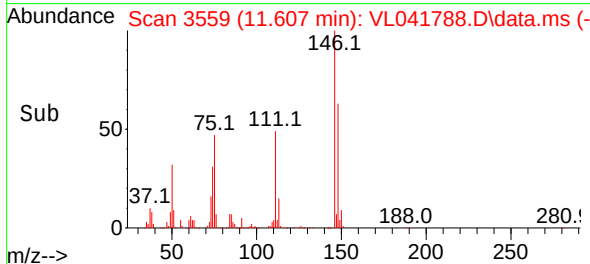
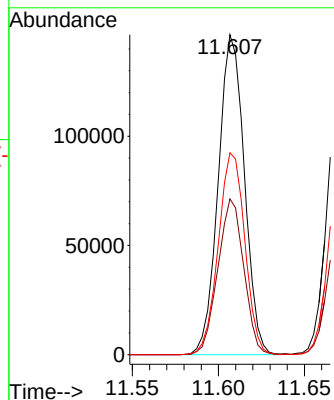
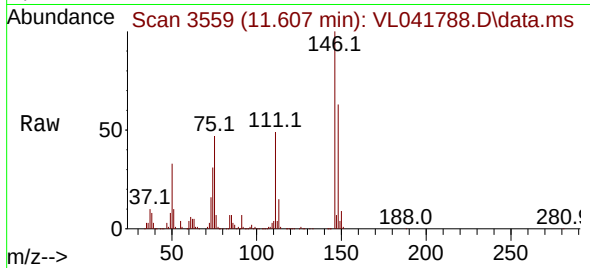




#75
1,3-Dichlorobenzene
Concen: 9.227 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

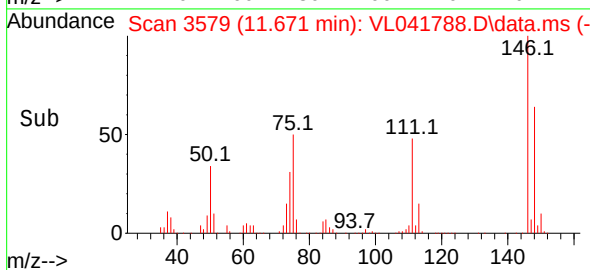
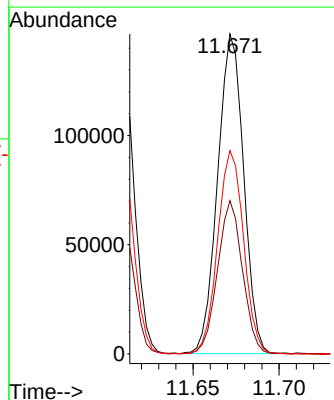
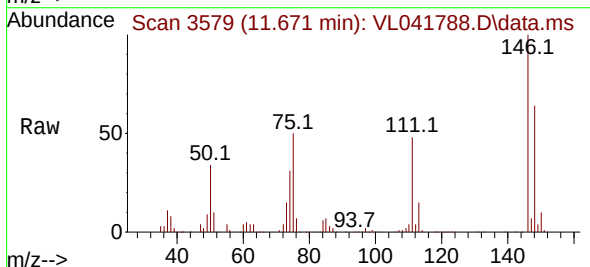
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

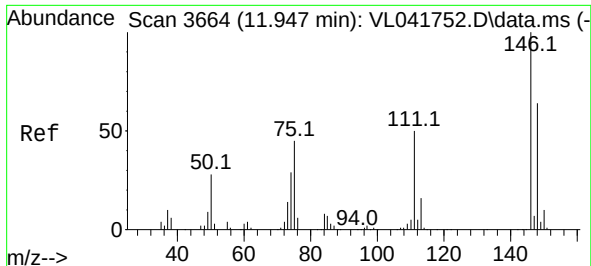
Tgt Ion:146 Resp: 154857
Ion Ratio Lower Upper
146 100
111 48.3 23.4 70.3
148 64.0 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 9.296 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:146 Resp: 154115
Ion Ratio Lower Upper
146 100
111 46.1 22.7 68.1
148 63.5 31.4 94.0

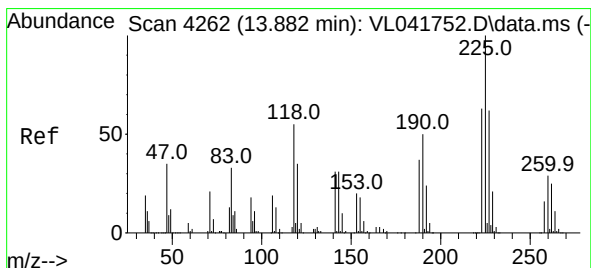
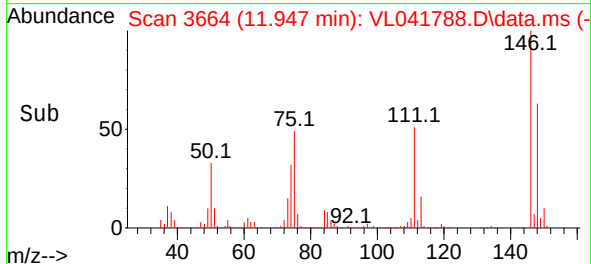
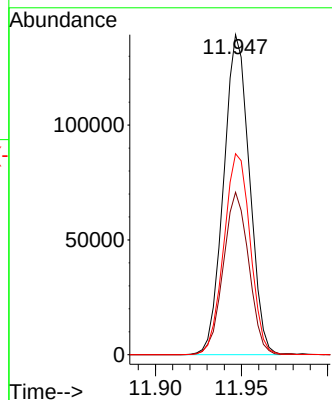
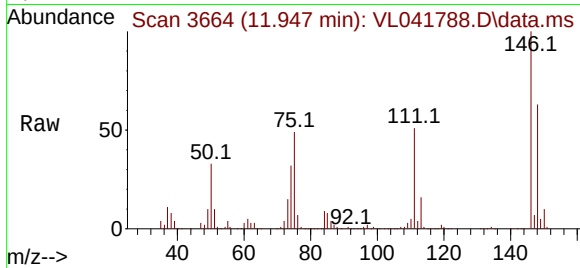




#77
1,2-Dichlorobenzene
Concen: 9.002 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

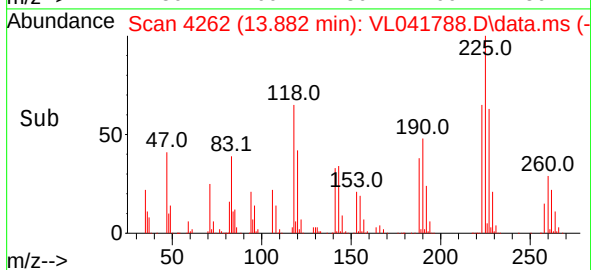
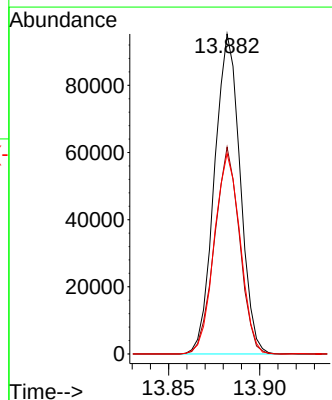
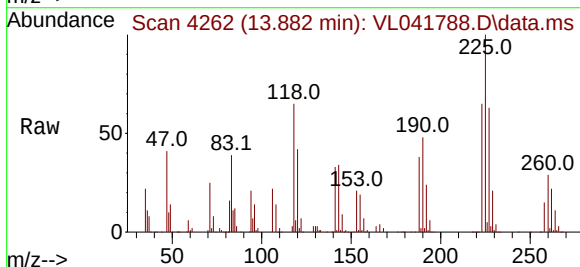
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

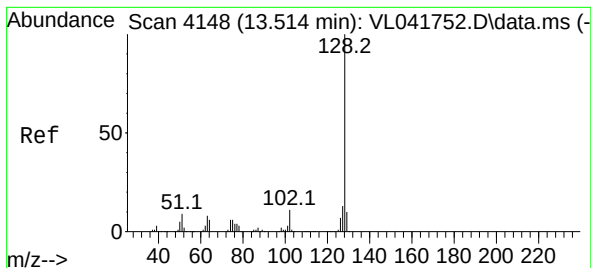
Tgt Ion:146 Resp: 145375
Ion Ratio Lower Upper
146 100
111 50.2 24.8 74.3
148 64.4 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 7.804 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Tgt Ion:225 Resp: 93437
Ion Ratio Lower Upper
225 100
223 62.8 50.5 75.7
227 63.0 50.3 75.5





#79

Naphthalene

Concen: 10.921 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

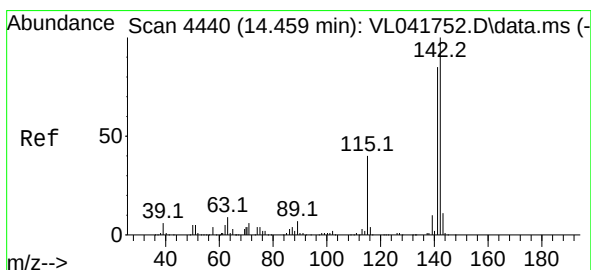
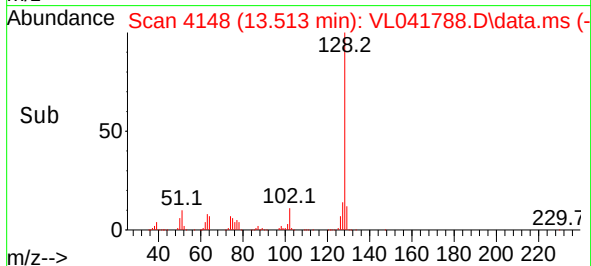
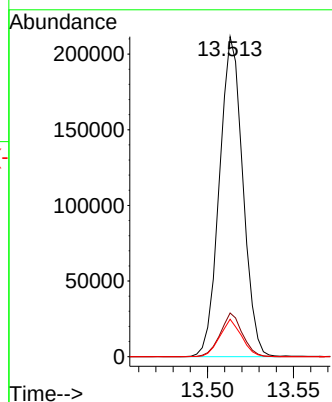
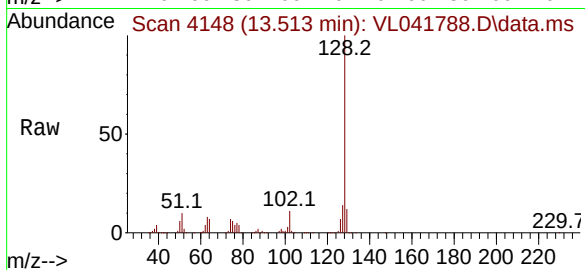
Tgt Ion:128 Resp: 200311

Ion Ratio Lower Upper

128 100

127 13.7 10.7 16.1

129 11.7 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 16.728 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

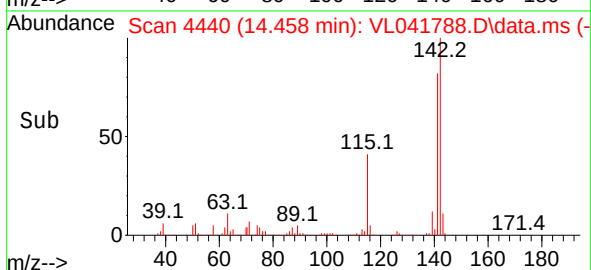
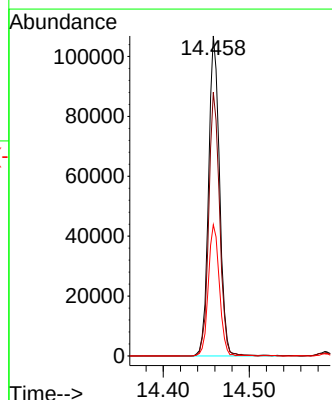
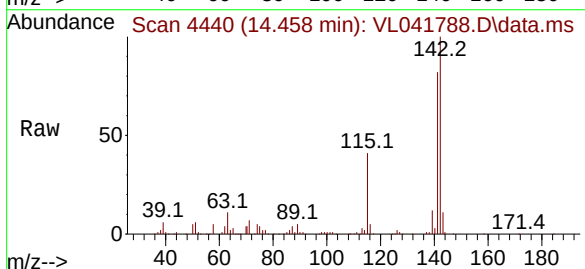
Tgt Ion:142 Resp: 94903

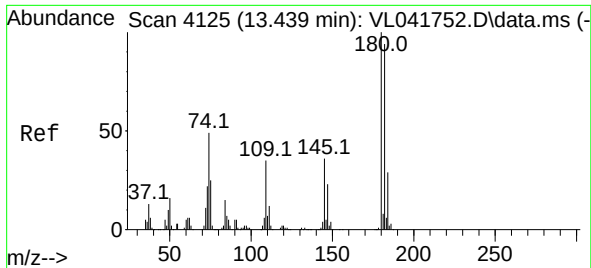
Ion Ratio Lower Upper

142 100

141 81.8 68.4 102.6

115 41.3 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 9.346 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041788.D

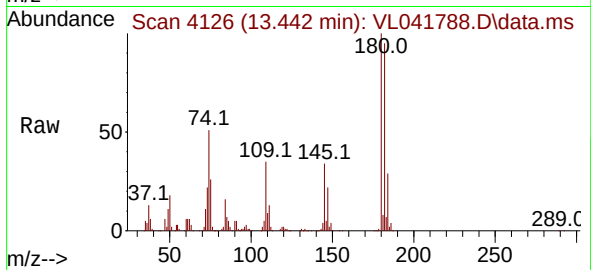
Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



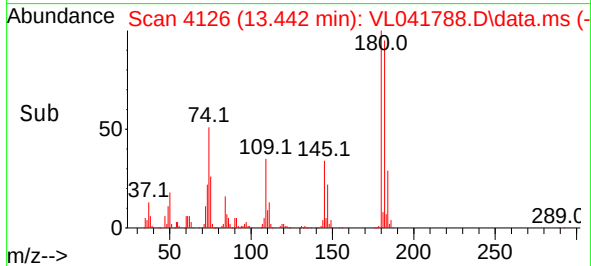
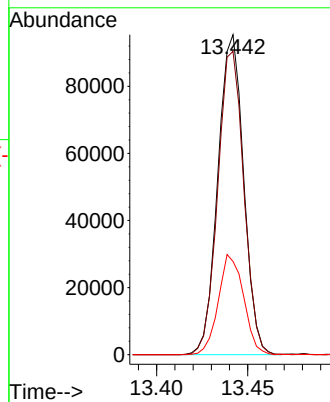
Tgt Ion:180 Resp: 93675

Ion Ratio Lower Upper

180 100

182 96.0 77.0 115.6

184 30.8 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041795.D
 Acq On : 18 Dec 2024 16:06
 Operator : SY/MD
 Sample : VL1218ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

Quant Time: Dec 19 07:55:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	72600	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.972	114	183255	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	159496	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	143879	10.825	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	112657	8.721	ppbv	99
3) Chlorodifluoromethane	1.479	51	102210	8.633	ppbv	97
4) Chloromethane	1.538	50	46901	9.279	ppbv	100
5) Vinyl Chloride	1.583	62	44104	8.661	ppbv	98
6) Bromomethane	1.674	94	21119	8.788	ppbv	99
7) Chloroethane	1.709	64	18047	9.123	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	110410	9.549	ppbv	93
9) Propene	1.486	41	35133	6.846	ppbv	98
10) Heptane	5.001	43	106572	8.085	ppbv	100
11) Trichlorofluoromethane	1.884	101	132171	9.632	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96243	9.222	ppbv	95
13) Ethanol	1.725	45	2865	6.742	ppbv	98
14) Bromoethene	1.787	108	30065	8.533	ppbv	96
15) Acetone	1.842	43	110277	7.807	ppbv	97
16) 1,3-Butadiene	1.612	39	52562	9.450	ppbv	92
17) tert-Butyl alcohol	2.046	59	122872	8.768	ppbv	100
18) 1,1-Dichloroethene	2.039	96	38415	8.780	ppbv	80
19) Isopropyl Alcohol	1.890	45	59665	7.039	ppbv #	37
20) Methylene Chloride	2.068	84	35310	8.766	ppbv	94
21) Allyl Chloride	2.104	41	68525	8.945	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	42821	8.550	ppbv	98
23) Vinyl Acetate	2.470	43	43463	6.627	ppbv	97
24) 1,1-Dichloroethane	2.418	63	92680	9.142	ppbv	99
25) Ethyl Acetate	2.845	43	223419	8.502	ppbv	99
26) Hexane	2.835	57	81413	8.164	ppbv	93
27) Carbon Disulfide	2.159	76	76433	8.505	ppbv	94
28) Methyl tert-Butyl Ether	2.447	73	64037	7.915	ppbv	99
29) Chloroform	2.858	83	139818	9.200	ppbv	99
30) Cyclohexane	3.871	84	66237	7.806	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	82779	8.033	ppbv	99
32) 1,1,1-Trichloroethane	3.379	97	136055	8.807	ppbv	98
34) 2-Butanone	2.564	43	125687	8.525	ppbv	100
35) Carbon Tetrachloride	3.777	117	141202	10.854	ppbv	97
36) Benzene	3.667	78	164423	8.674	ppbv	98
37) 1,2-Dichloroethane	3.230	62	113600	9.631	ppbv	99
38) Trichloroethene	4.564	130	63280	7.864	ppbv	93
39) 1,2-Dichloropropane	4.331	63	58553	8.541	ppbv	92
40) 1,4-Dioxane	4.599	88	28884	8.624	ppbv #	92
41) Tetrahydrofuran	3.065	42	67017	8.114	ppbv	99
42) Bromodichloromethane	4.509	83	133513	9.839	ppbv	95
43) Methyl Methacrylate	4.897	69	61014	8.448	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	284140	8.777	ppbv	96
45) t-1,3-Dichloropropene	6.438	75	58865	7.879	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041795.D
 Acq On : 18 Dec 2024 16:06
 Operator : SY/MD
 Sample : VL1218ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

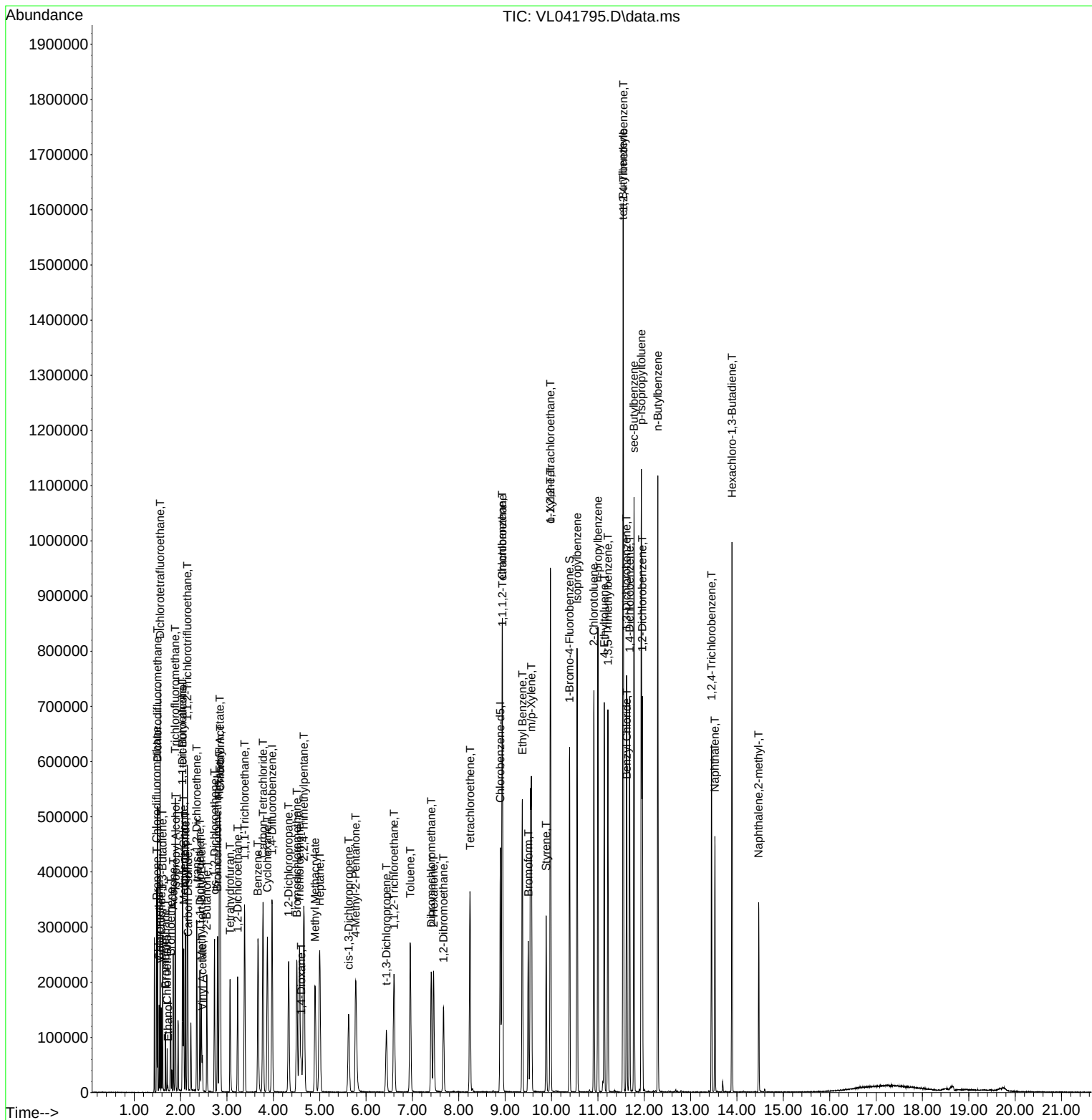
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

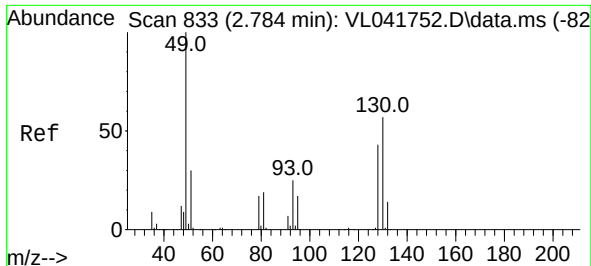
Quant Time: Dec 19 07:55:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	74198	7.824	ppbv	89
47) 1,1,2-Trichloroethane	6.603	97	64954	9.071	ppbv	93
48) Dibromochloromethane	7.406	129	96996	9.920	ppbv	99
49) Bromoform	9.500	173	80840	10.100	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	175817	8.759	ppbv	99
51) 2-Hexanone	7.457	43	142403	8.752	ppbv #	96
52) Tetrachloroethene	8.244	164	54531	7.729	ppbv	93
53) Toluene	6.952	91	177625	8.265	ppbv	99
54) 1,2-Dibromoethane	7.671	107	90389	9.161	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.943	131	86262	10.202	ppbv	100
57) Chlorobenzene	8.937	112	153659	9.415	ppbv	99
58) Ethyl Benzene	9.370	91	267795	9.326	ppbv	98
59) m/p-Xylene	9.564	91	197933	8.573	ppbv #	100
60) o-Xylene	9.975	91	229919	9.930	ppbv	100
61) Styrene	9.885	104	95536	9.543	ppbv	100
62) Isopropylbenzene	10.552	105	339599	9.762	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	142272	9.817	ppbv	100
64) n-propylbenzene	11.002	120	86896	9.880	ppbv	97
65) tert-Butylbenzene	11.542	119	307835	9.808	ppbv	97
66) Benzyl Chloride	11.626	91	21939	7.936	ppbv	97
67) sec-Butylbenzene	11.778	105	441578	10.167	ppbv	99
69) p-Isopropyltoluene	11.937	119	366111	10.229	ppbv	99
70) n-Butylbenzene	12.293	91	366451	10.597	ppbv	98
71) 2-Chlorotoluene	10.914	91	255490	9.622	ppbv	99
72) 4-Ethyltoluene	11.137	105	277025	10.137	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	240648	10.613	ppbv	100
74) 1,2,4-Trimethylbenzene	11.548	105	260378	10.679	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	152493	9.809	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	152432	9.926	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	148412	9.922	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	88582	7.987	ppbv	100
79) Naphthalene	13.523	128	189506	11.154	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	82155	15.634	ppbv	96
81) 1,2,4-Trichlorobenzene	13.452	180	89052	9.592	ppbv	99

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

Quant Time: Dec 19 07:55:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

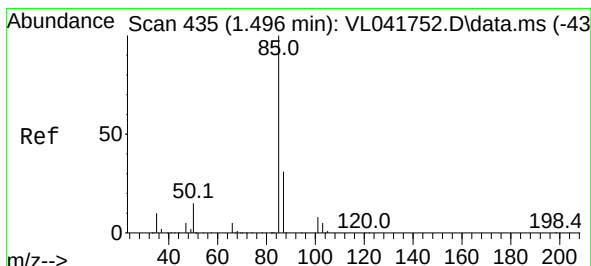
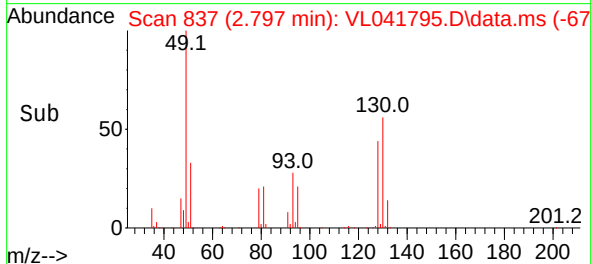
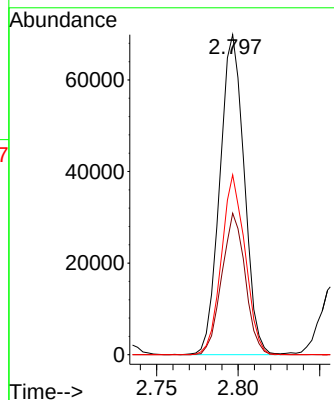
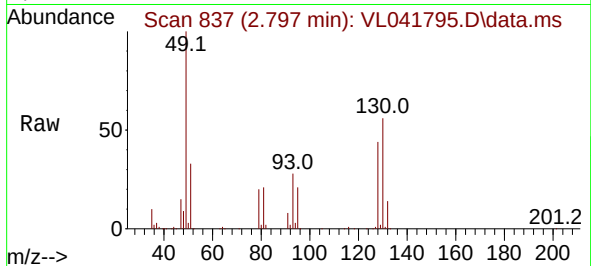




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

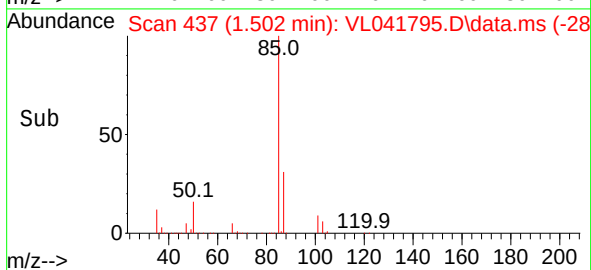
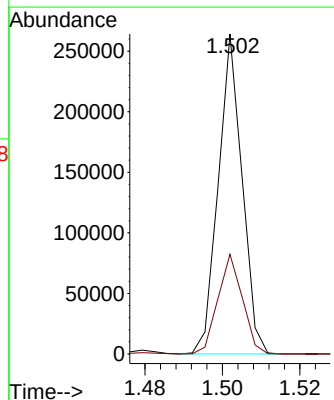
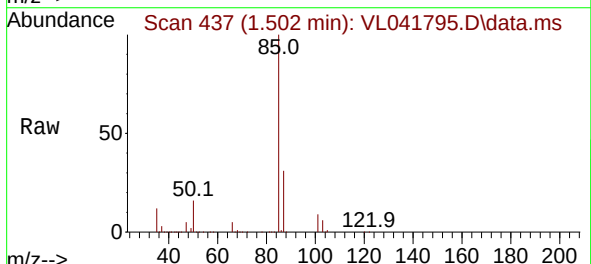
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

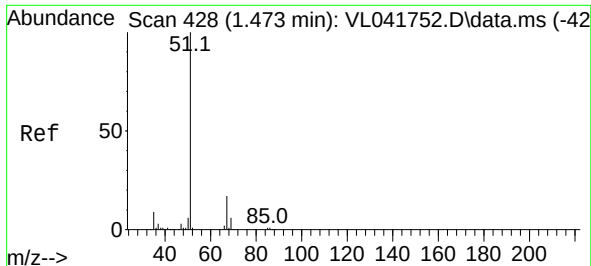
Tgt Ion: 49 Resp: 72600
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.6
130 54.6 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 8.721 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 85 Resp: 112657
Ion Ratio Lower Upper
85 100
87 31.1 24.5 36.7

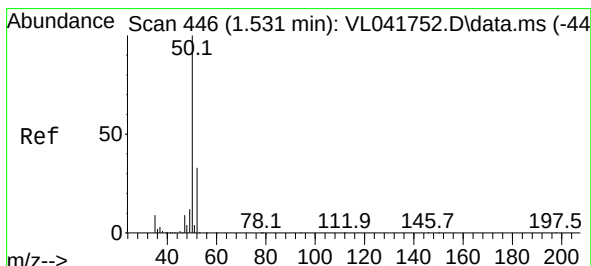
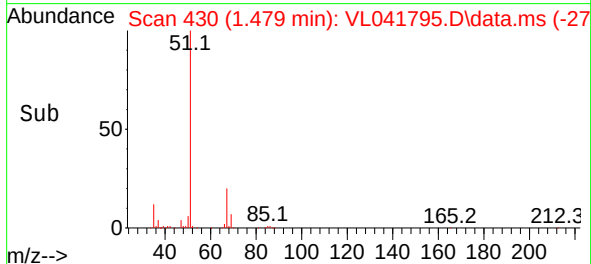
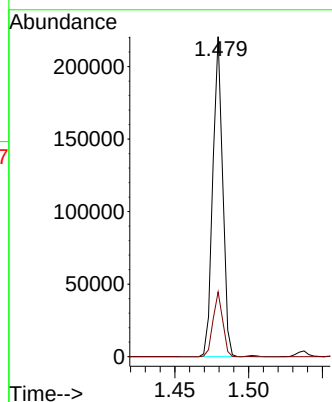
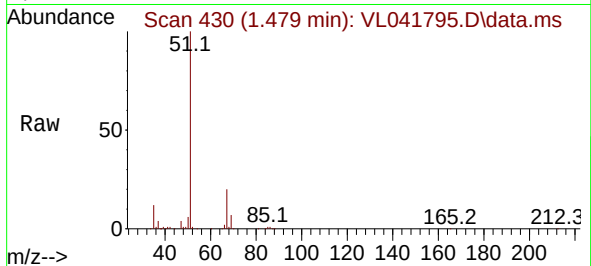




#3
Chlorodifluoromethane
Concen: 8.633 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

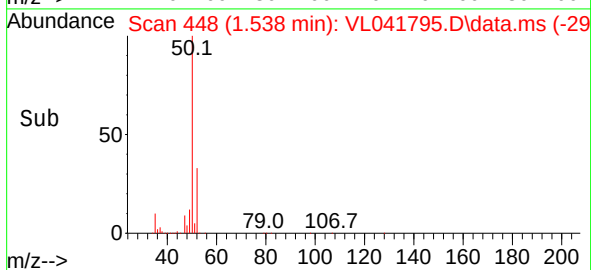
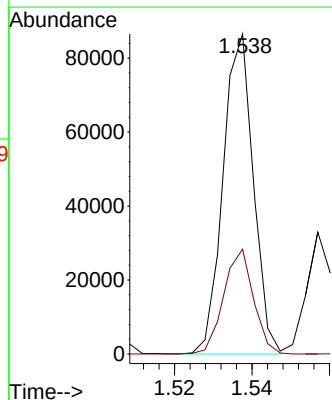
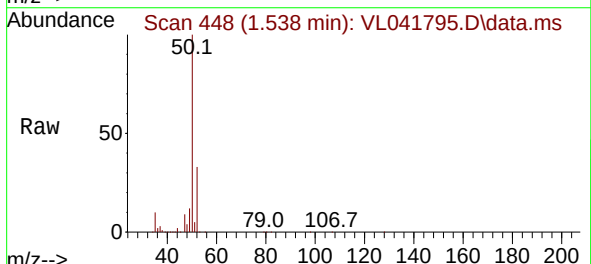
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

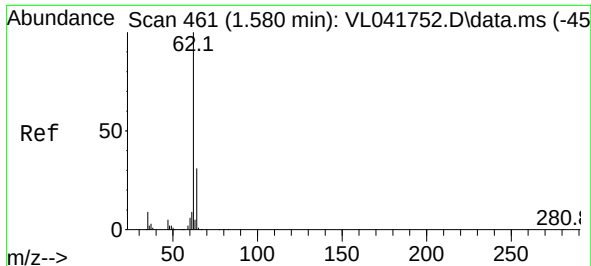
Tgt Ion: 51 Resp: 102210
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.4



#4
Chloromethane
Concen: 9.279 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 50 Resp: 46901
Ion Ratio Lower Upper
50 100
52 32.7 26.2 39.2

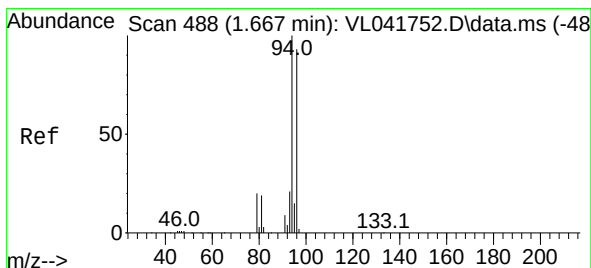
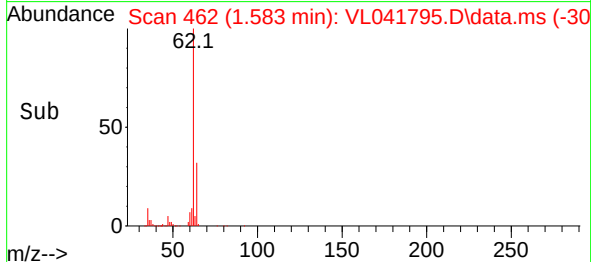
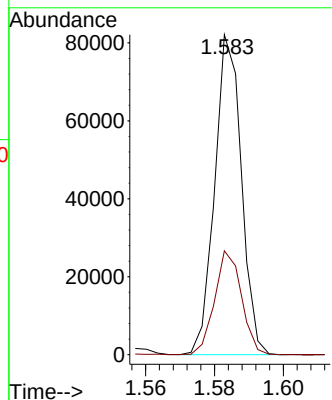
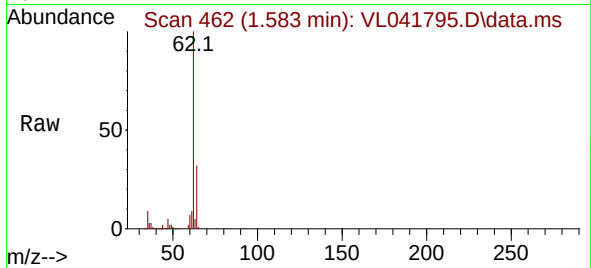




#5
 Vinyl Chloride
 Concen: 8.661 ppbv
 RT: 1.583 min Scan# 410
 Delta R.T. 0.003 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

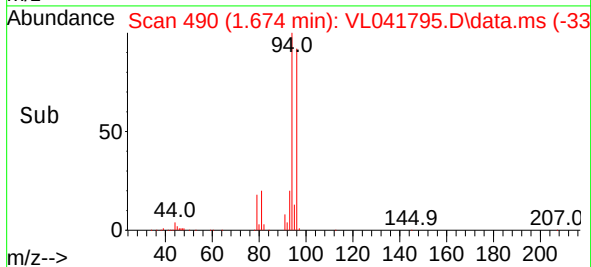
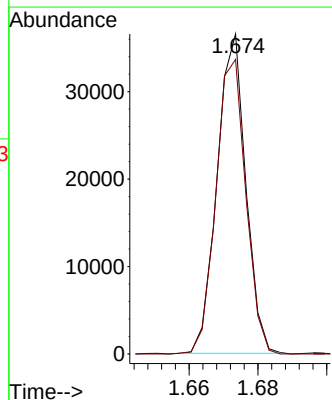
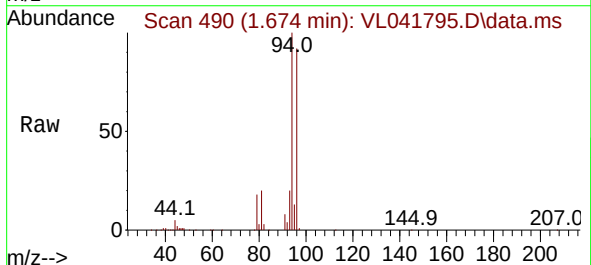
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

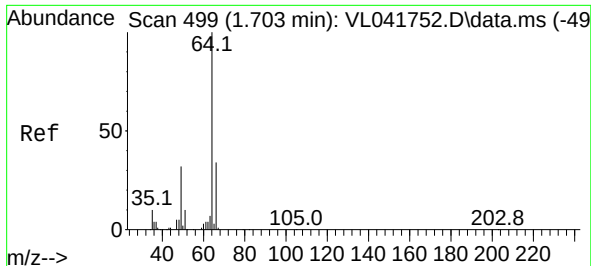
Tgt Ion: 62 Resp: 44104
 Ion Ratio Lower Upper
 62 100
 64 32.5 25.1 37.7



#6
 Bromomethane
 Concen: 8.788 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.006 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

Tgt Ion: 94 Resp: 21119
 Ion Ratio Lower Upper
 94 100
 96 92.2 74.7 112.1

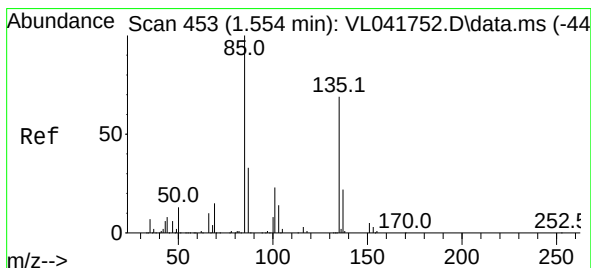
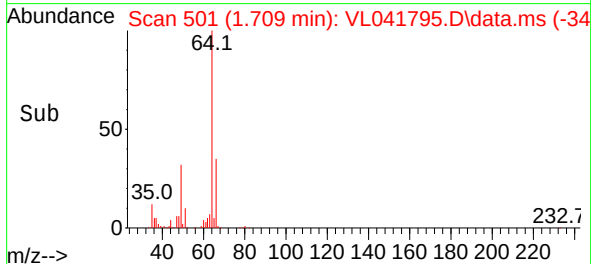
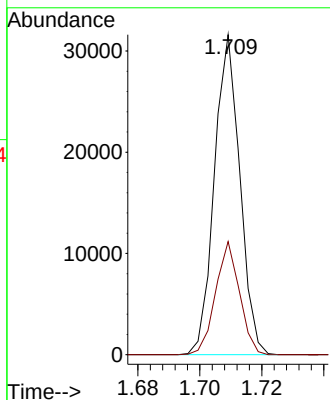
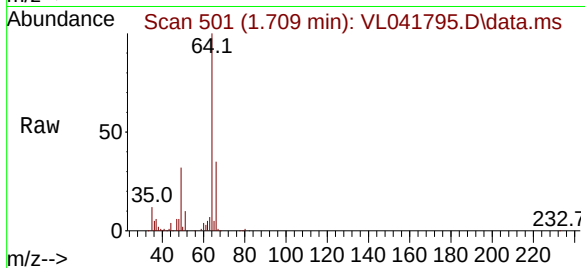




#7
Chloroethane
Concen: 9.123 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

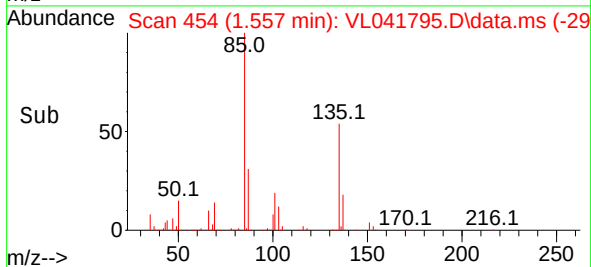
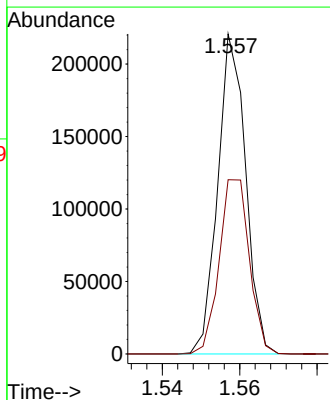
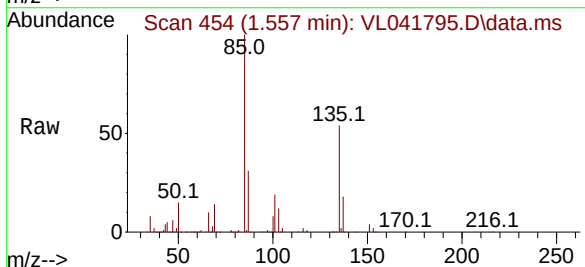
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

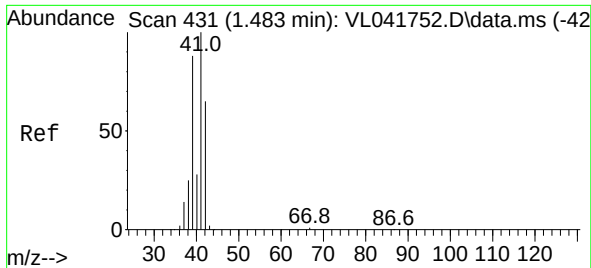
Tgt Ion: 64 Resp: 18047
Ion Ratio Lower Upper
64 100
66 35.4 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 9.549 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 85 Resp: 110410
Ion Ratio Lower Upper
85 100
135 59.3 51.9 77.9





#9

Propene

Concen: 6.846 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

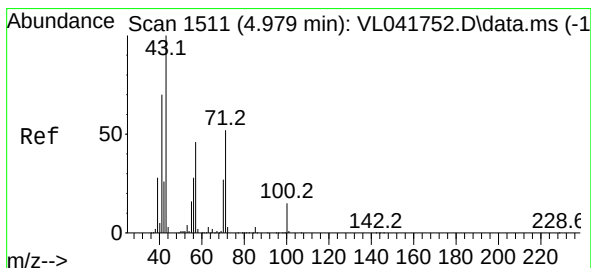
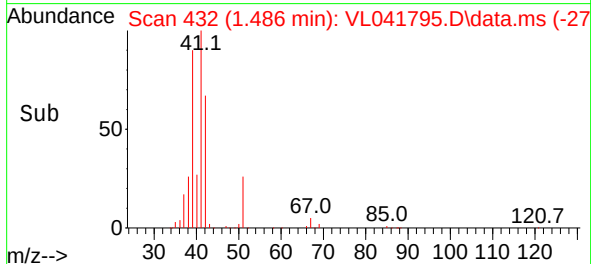
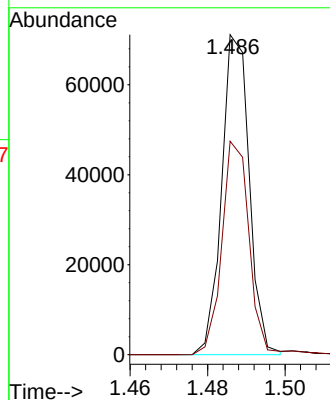
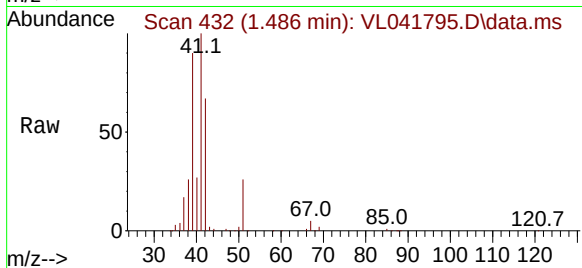
VL1218ABS01

Tgt Ion: 41 Resp: 35133

Ion Ratio Lower Upper

41 100

42 67.4 52.4 78.6



#10

Heptane

Concen: 8.085 ppbv

RT: 5.001 min Scan# 1518

Delta R.T. 0.022 min

Lab File: VL041795.D

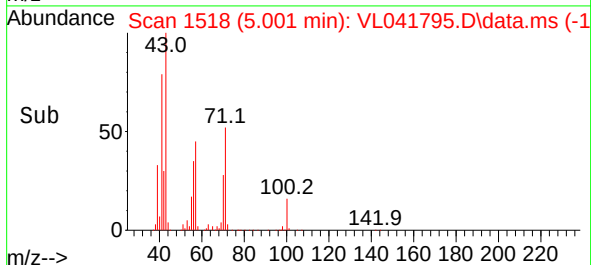
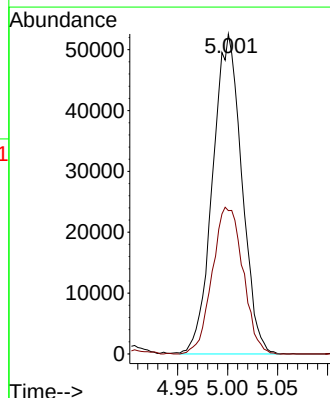
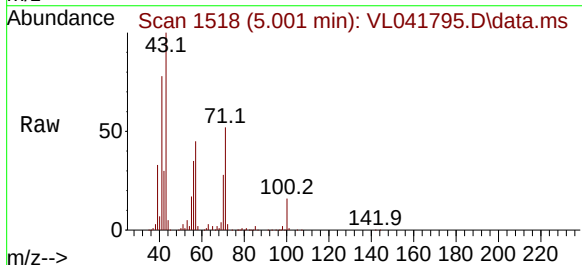
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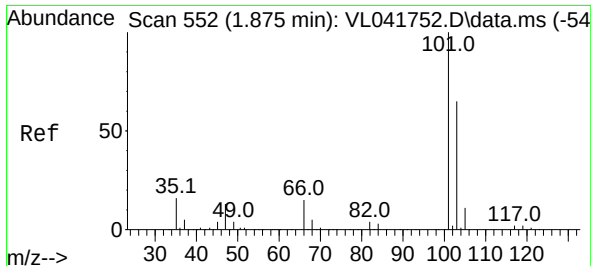
Tgt Ion: 43 Resp: 106572

Ion Ratio Lower Upper

43 100

57 48.3 38.5 57.7





#11

Trichlorofluoromethane

Concen: 9.632 ppbv

RT: 1.884 min Scan# 51

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

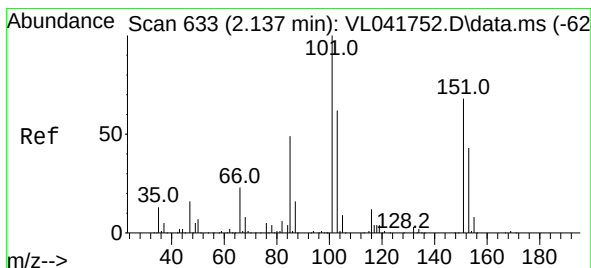
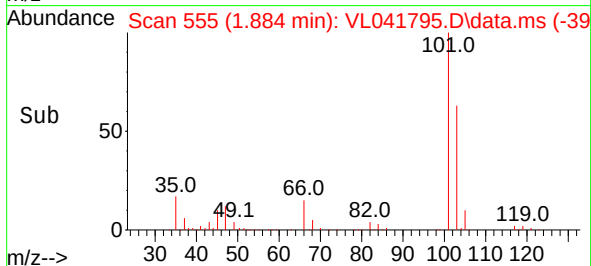
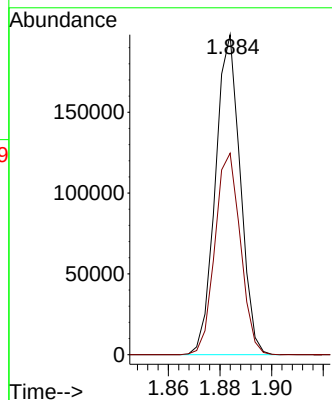
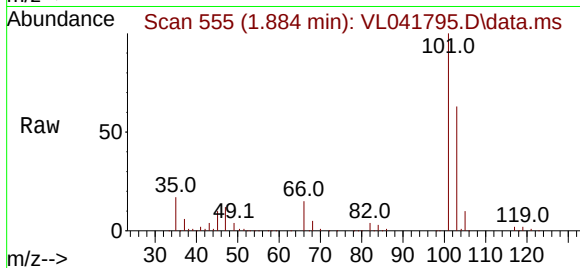
VL1218ABS01

Tgt Ion:101 Resp: 132171

Ion Ratio Lower Upper

101 100

103 62.9 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.222 ppbv

RT: 2.146 min Scan# 636

Delta R.T. 0.009 min

Lab File: VL041795.D

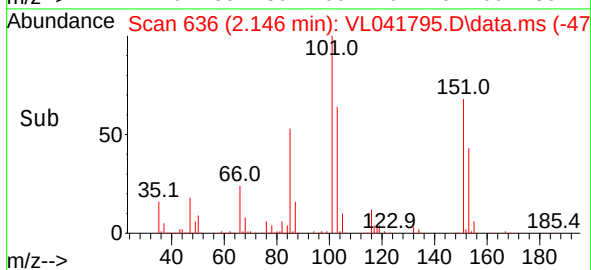
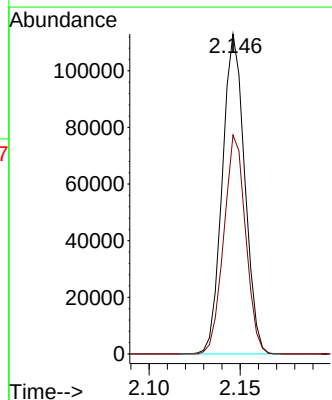
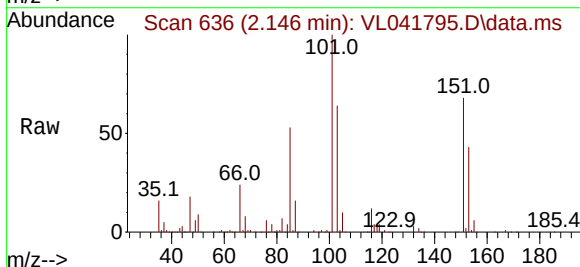
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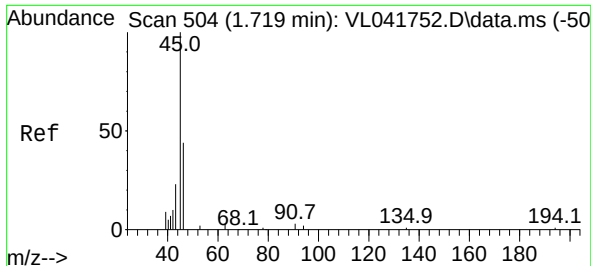
Tgt Ion:101 Resp: 96243

Ion Ratio Lower Upper

101 100

151 66.8 56.8 85.2

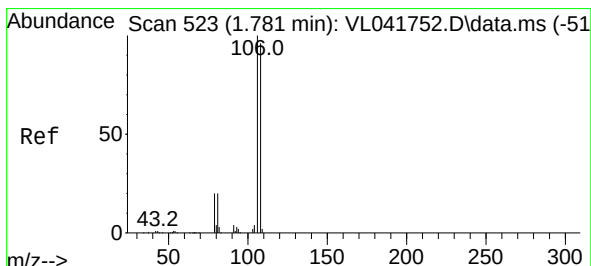
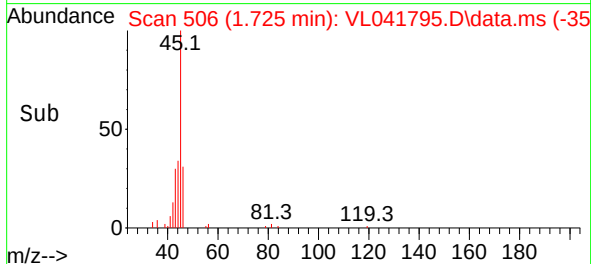
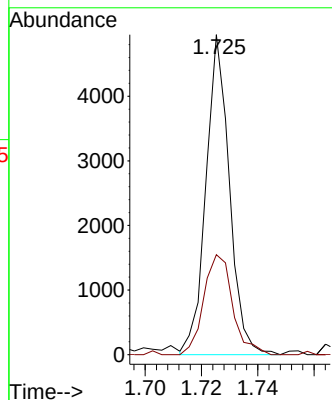
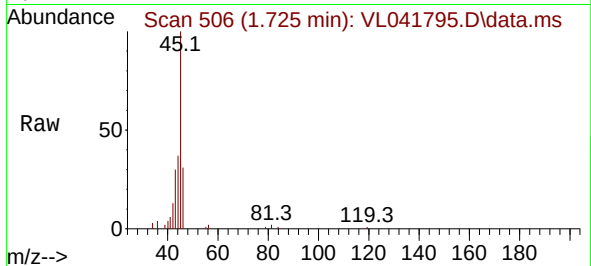




#13
Ethanol
Concen: 6.742 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

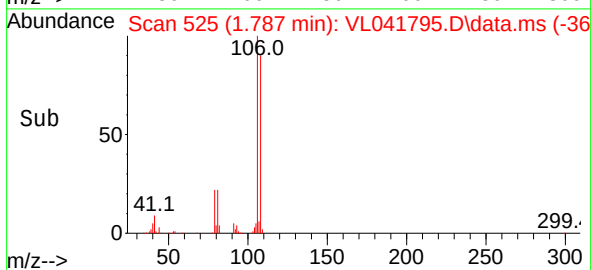
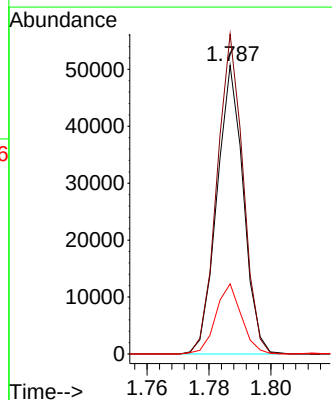
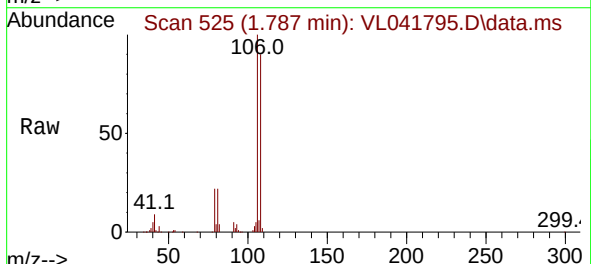
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

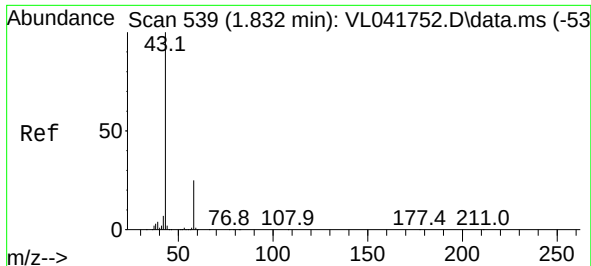
Tgt Ion: 45 Resp: 2865
Ion Ratio Lower Upper
45 100
46 39.7 16.4 65.8



#14
Bromoethene
Concen: 8.533 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 108 Resp: 30065
Ion Ratio Lower Upper
108 100
106 108.9 84.1 126.1
79 23.9 17.4 26.0

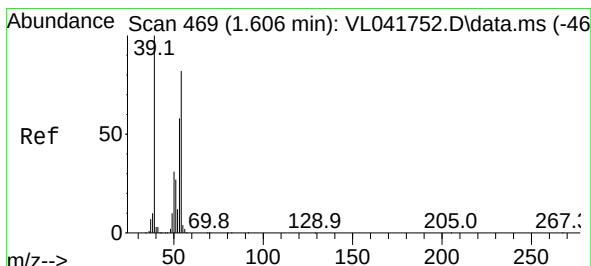
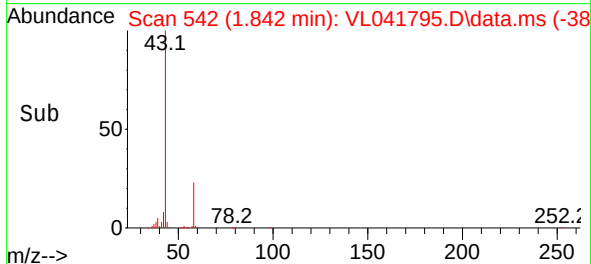
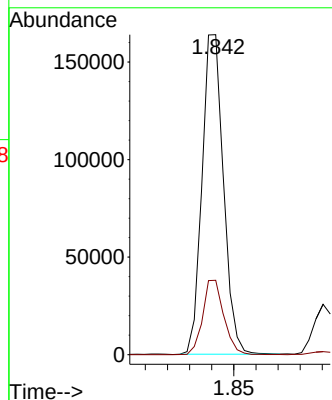
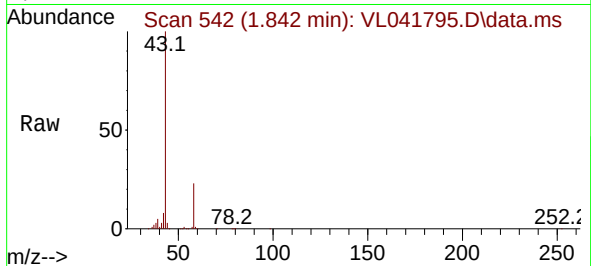




#15
Acetone
Concen: 7.807 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

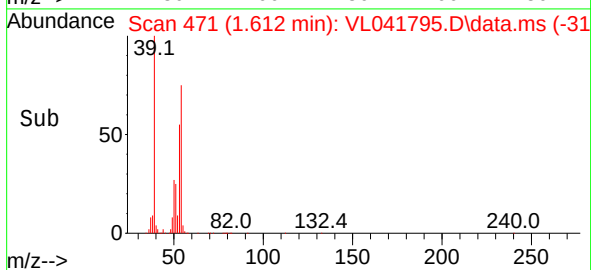
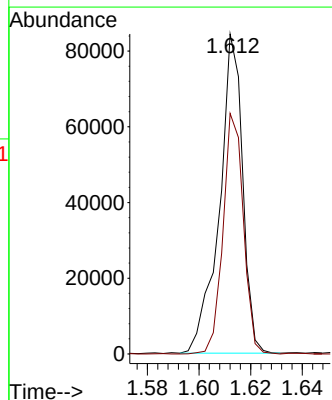
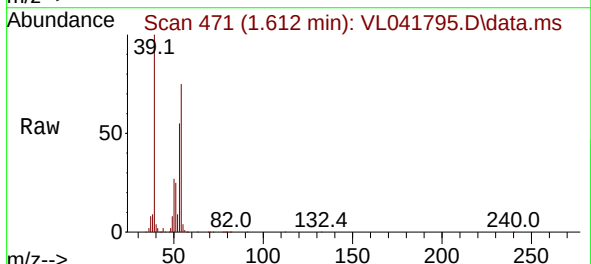
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

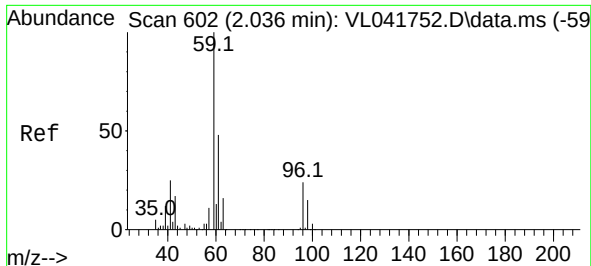
Tgt Ion: 43 Resp: 110277
Ion Ratio Lower Upper
43 100
58 23.0 19.7 29.5



#16
1,3-Butadiene
Concen: 9.450 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 39 Resp: 52562
Ion Ratio Lower Upper
39 100
54 66.3 58.4 87.6

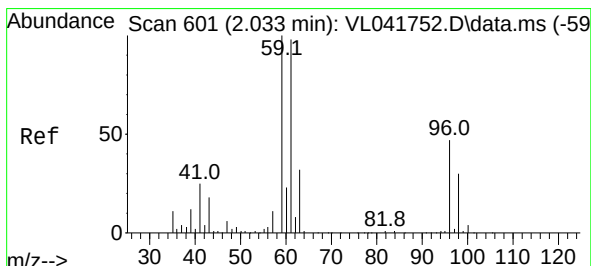
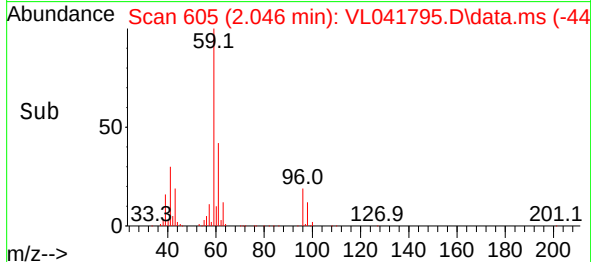
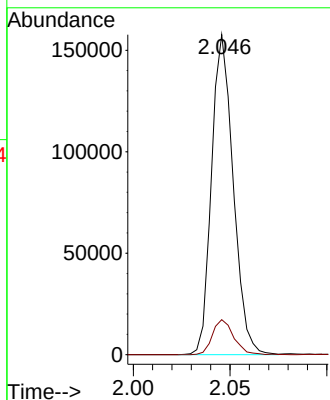
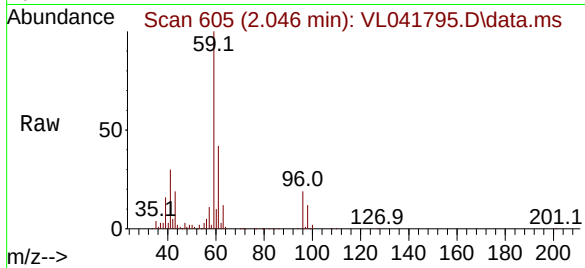




#17
tert-Butyl alcohol
Concen: 8.768 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

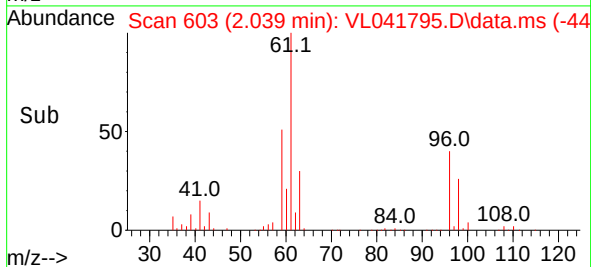
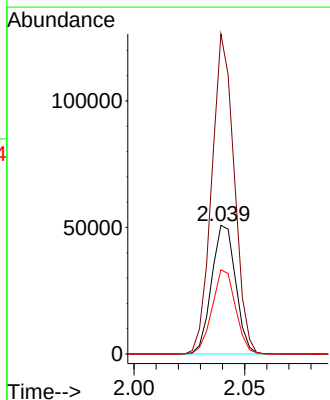
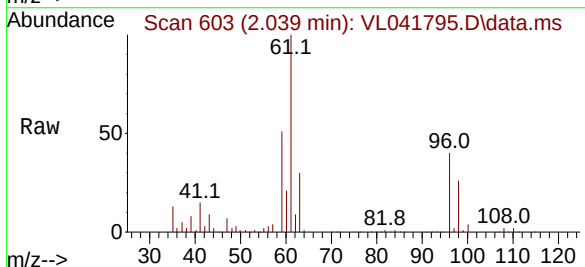
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

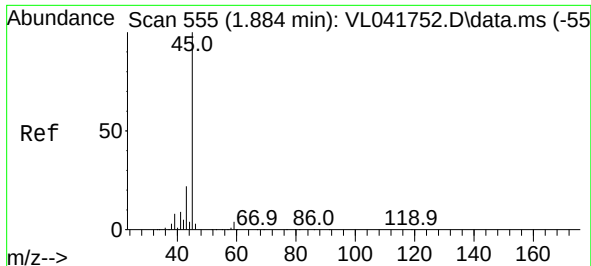
Tgt Ion: 59 Resp: 122872
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0



#18
1,1-Dichloroethene
Concen: 8.780 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 96 Resp: 38415
Ion Ratio Lower Upper
96 100
61 248.9 167.7 251.5
98 65.4 51.1 76.7





#19

Isopropyl Alcohol

Concen: 7.039 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

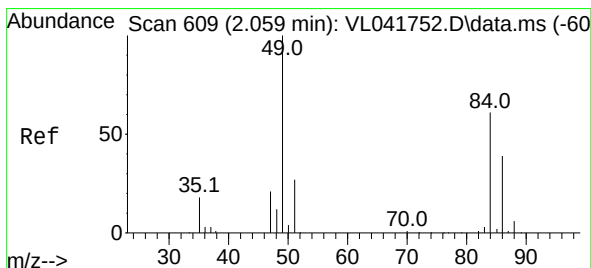
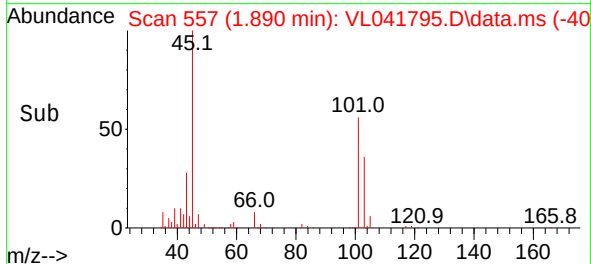
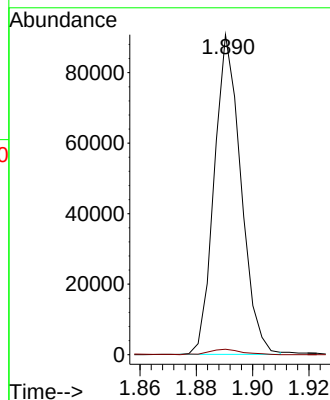
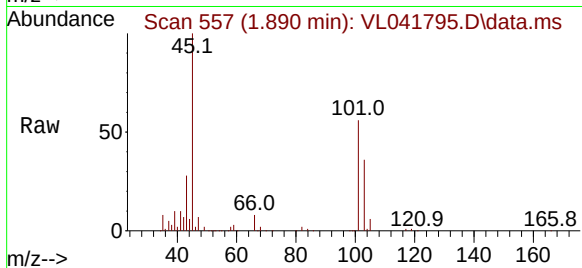
VL1218ABS01

Tgt Ion: 45 Resp: 59665

Ion Ratio Lower Upper

45 100

58 2.1 33.3 49.9#



#20

Methylene Chloride

Concen: 8.766 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion: 84 Resp: 35310

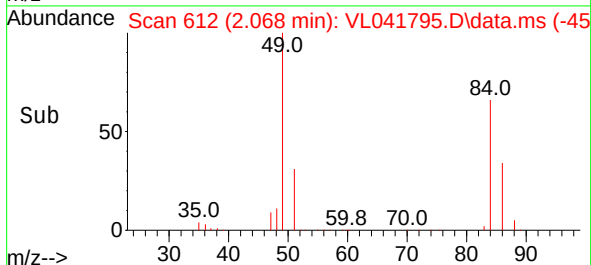
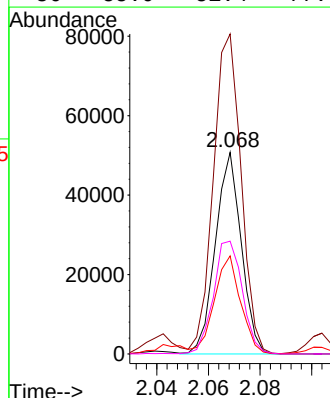
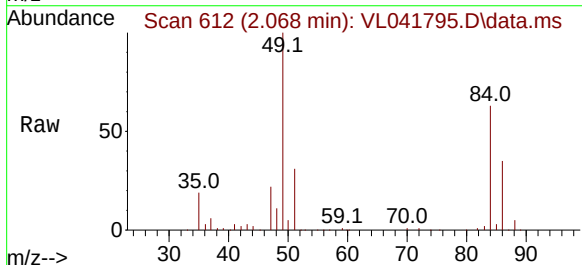
Ion Ratio Lower Upper

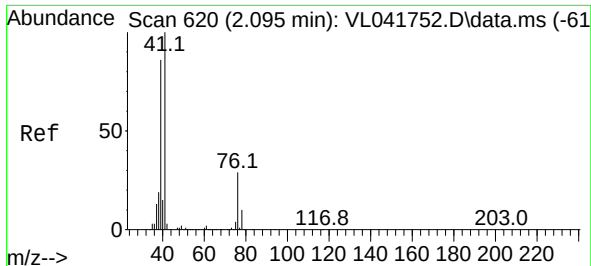
84 100

49 158.5 132.6 198.8

51 48.4 37.6 56.4

86 55.9 51.4 77.0





#21

Allyl Chloride

Concen: 8.945 ppbv

RT: 2.104 min Scan# 61

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

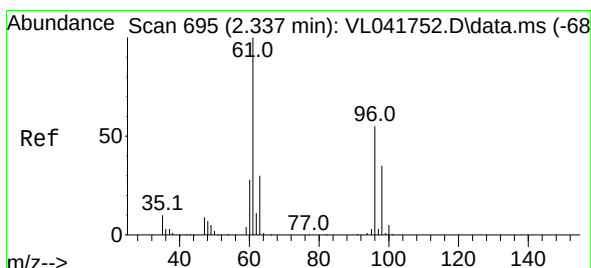
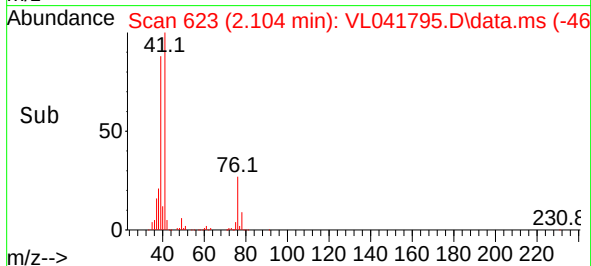
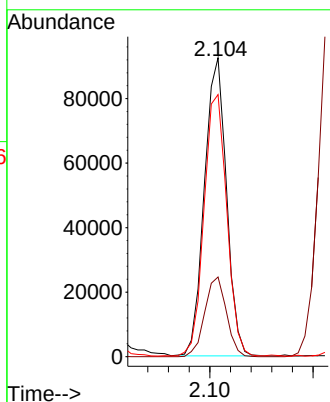
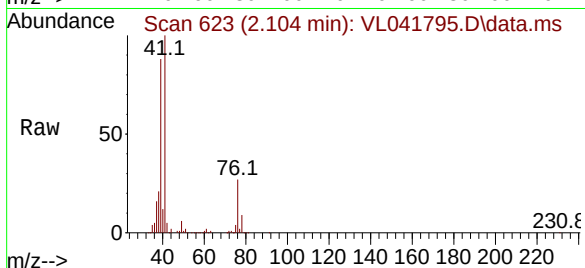
Tgt Ion: 41 Resp: 68525

Ion Ratio Lower Upper

41 100

76 26.2 22.3 33.5

39 91.2 69.2 103.8



#22

trans-1,2-Dichloroethene

Concen: 8.550 ppbv

RT: 2.350 min Scan# 699

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

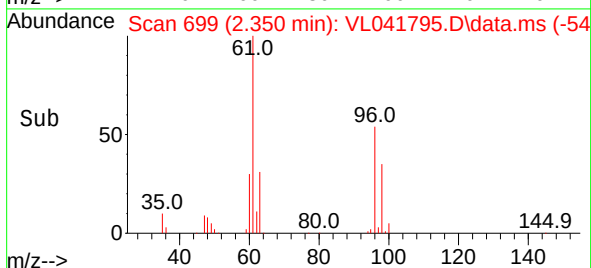
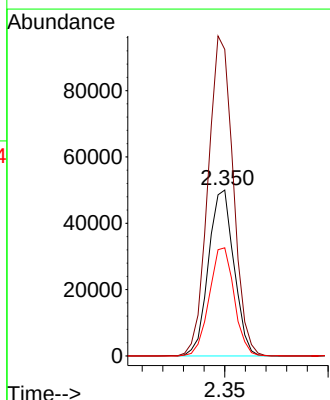
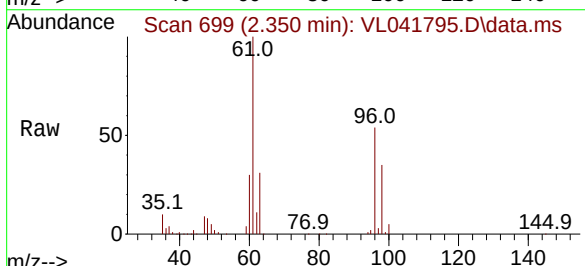
Tgt Ion: 96 Resp: 42821

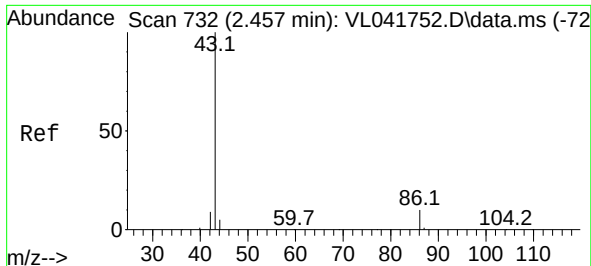
Ion Ratio Lower Upper

96 100

61 184.8 146.3 219.5

98 65.2 50.8 76.2

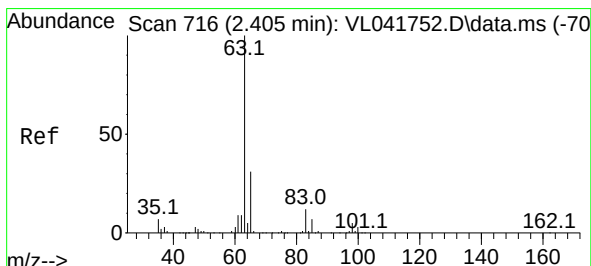
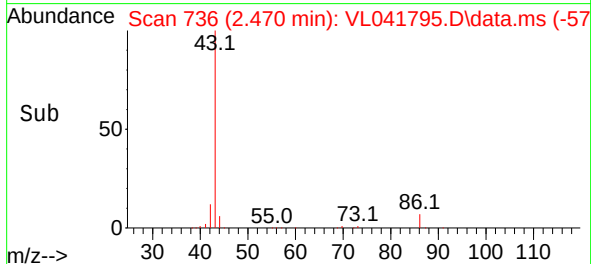
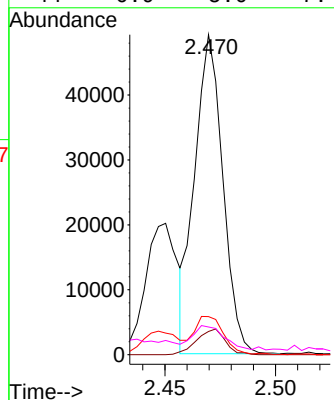
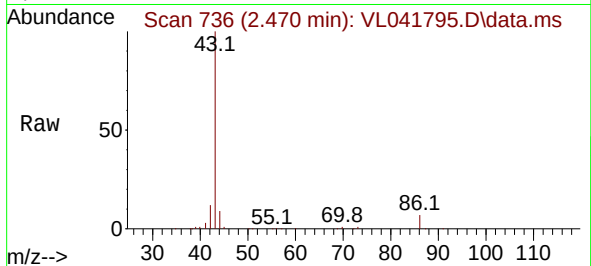




#23
 Vinyl Acetate
 Concen: 6.627 ppbv
 RT: 2.470 min Scan# 741
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

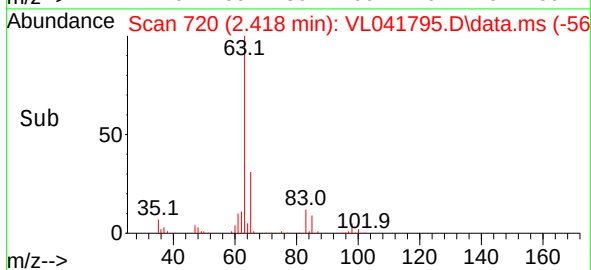
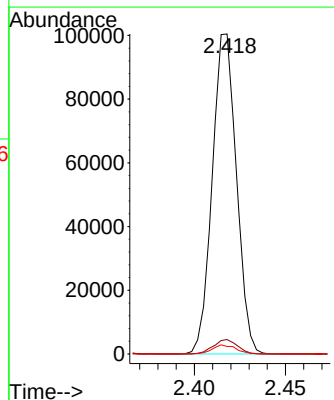
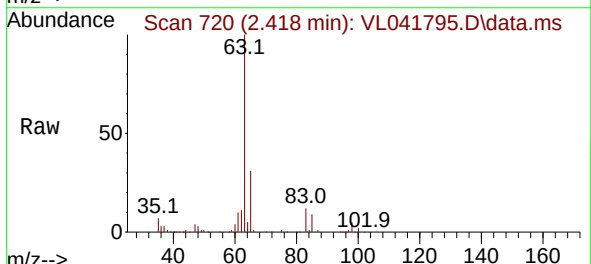
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

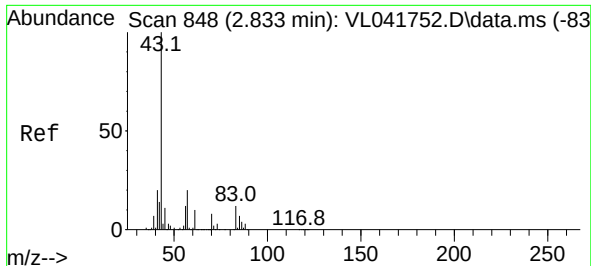
Tgt Ion:	43	Resp:	43463
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.6	10.0
42	11.5	8.2	12.2
44	6.9	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 9.142 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

Tgt Ion:	63	Resp:	92680
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.4	1.4	4.2





#25

Ethyl Acetate

Concen: 8.502 ppbv

RT: 2.845 min Scan# 848

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

Tgt Ion: 43 Resp: 223419

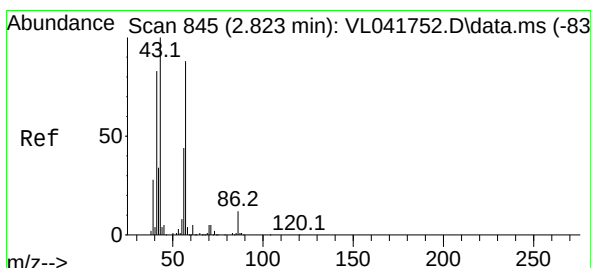
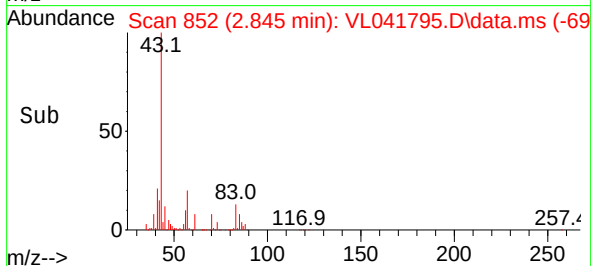
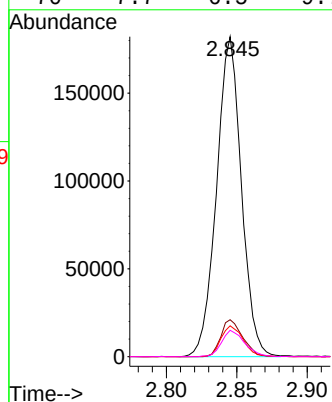
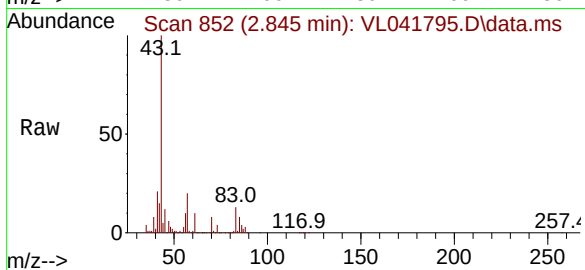
Ion Ratio Lower Upper

43 100

45 10.2 8.1 12.1

61 8.7 7.0 10.6

70 7.7 6.5 9.7



#26

Hexane

Concen: 8.164 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion: 57 Resp: 81413

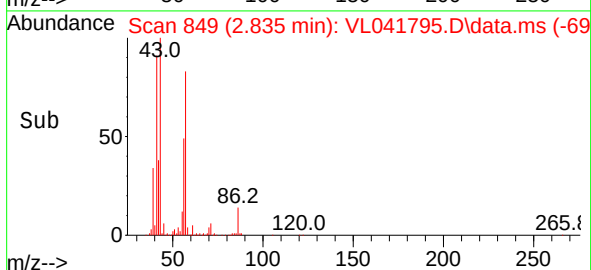
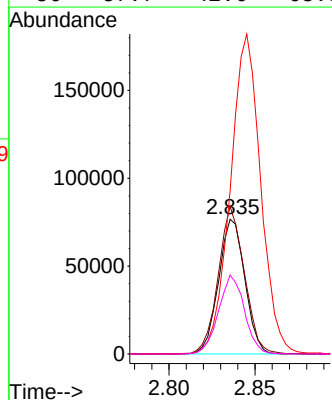
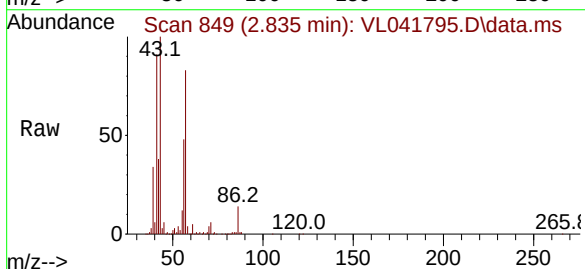
Ion Ratio Lower Upper

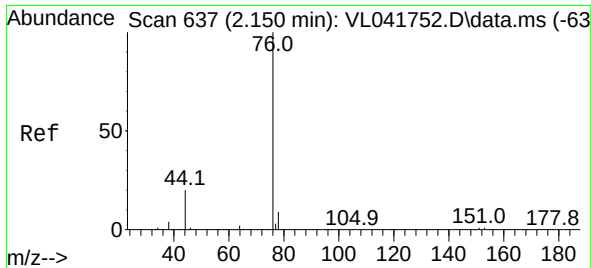
57 100

41 109.0 79.6 119.4

43 275.9 211.0 316.6

56 57.7 42.6 63.8





#27

Carbon Disulfide

Concen: 8.505 ppbv

RT: 2.159 min Scan# 64

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

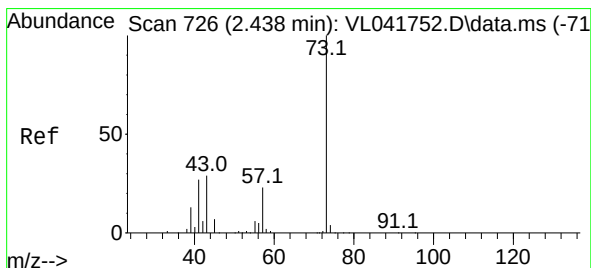
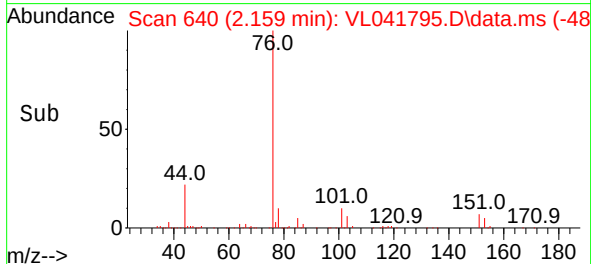
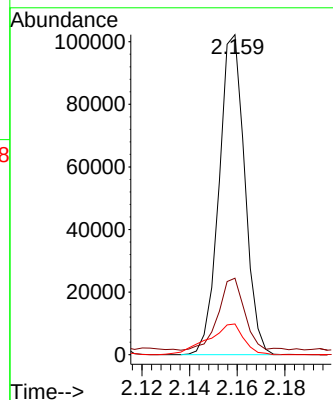
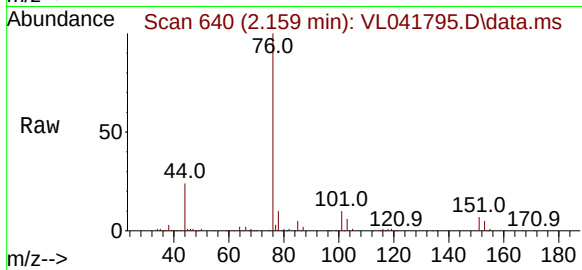
Tgt Ion: 76 Resp: 76433

Ion Ratio Lower Upper

76 100

44 25.9 17.6 26.4

78 13.3 10.2 15.4



#28

Methyl tert-Butyl Ether

Concen: 7.915 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.009 min

Lab File: VL041795.D

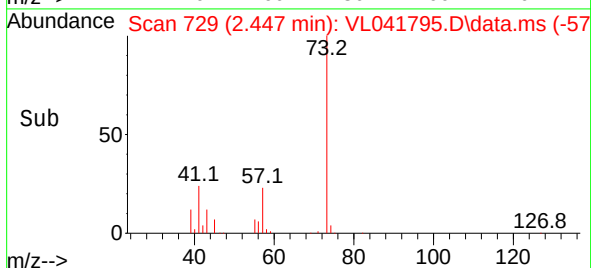
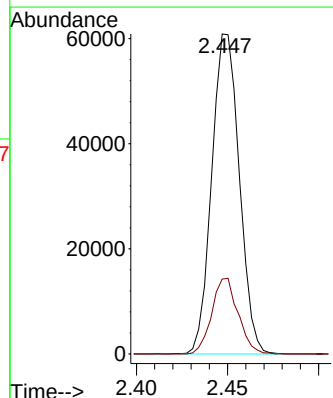
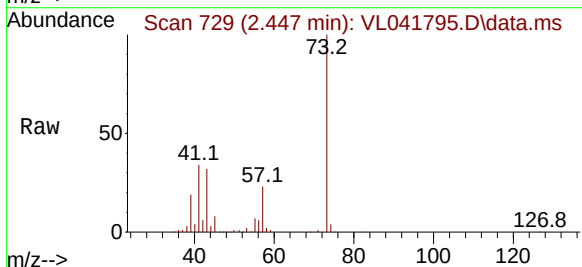
Acq: 18 Dec 2024 16:06

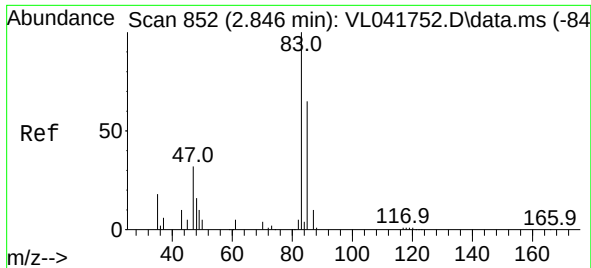
Tgt Ion: 73 Resp: 64037

Ion Ratio Lower Upper

73 100

57 22.6 17.6 26.4





#29

Chloroform

Concen: 9.200 ppbv

RT: 2.858 min Scan# 84

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

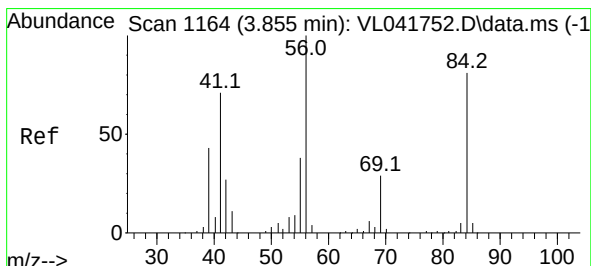
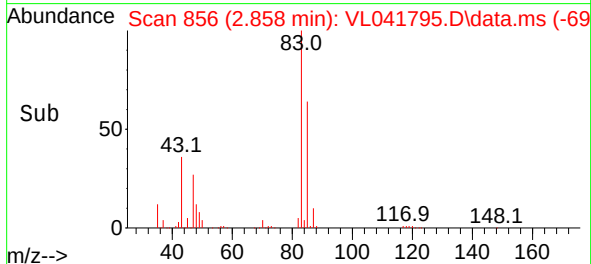
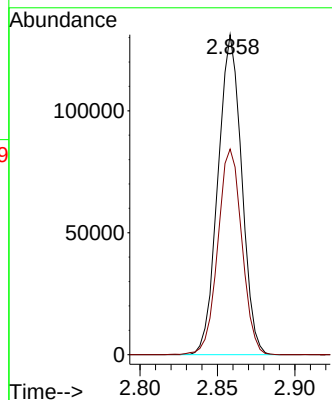
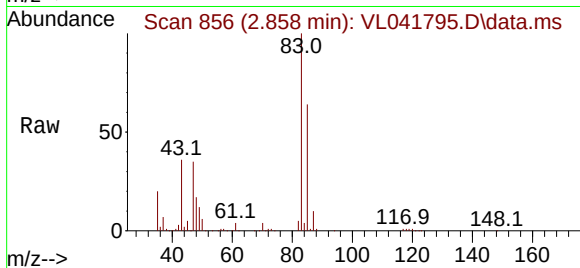
VL1218ABS01

Tgt Ion: 83 Resp: 139818

Ion Ratio Lower Upper

83 100

85 64.2 51.8 77.6



#30

Cyclohexane

Concen: 7.806 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

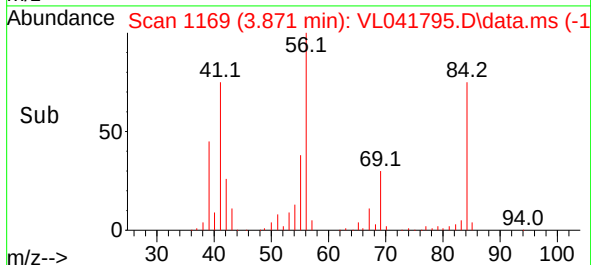
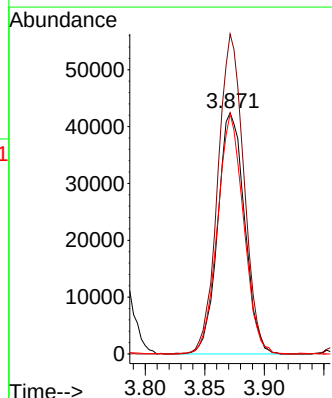
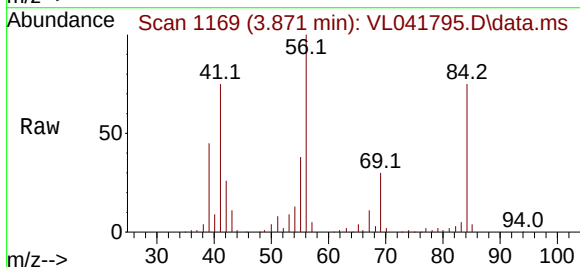
Tgt Ion: 84 Resp: 66237

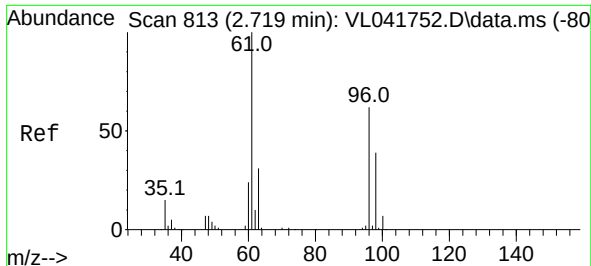
Ion Ratio Lower Upper

84 100

56 128.6 102.3 153.5

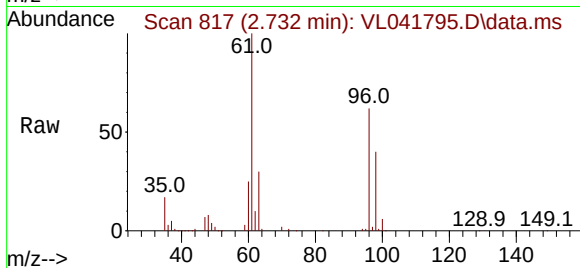
41 97.1 74.0 111.0



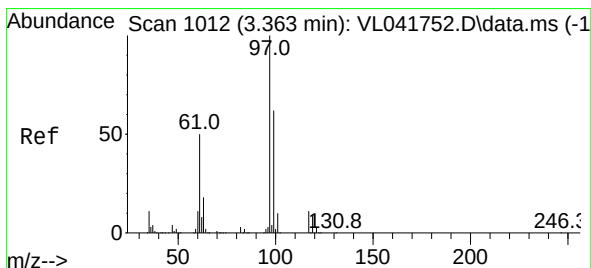
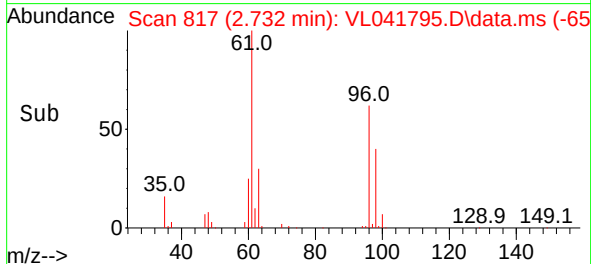
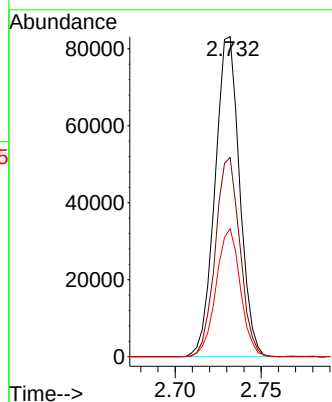


#31
cis-1,2-Dichloroethene
Concen: 8.033 ppbv
RT: 2.732 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

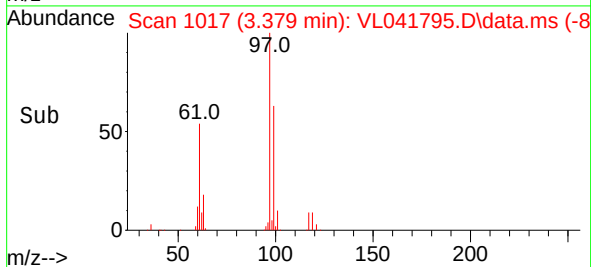
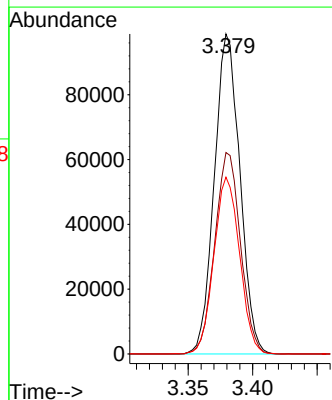
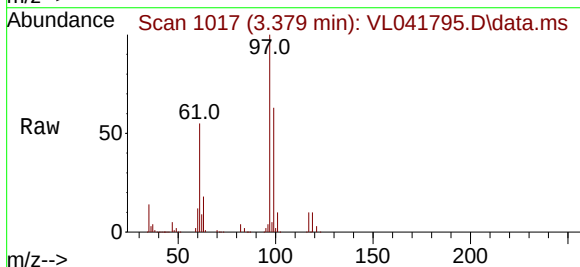


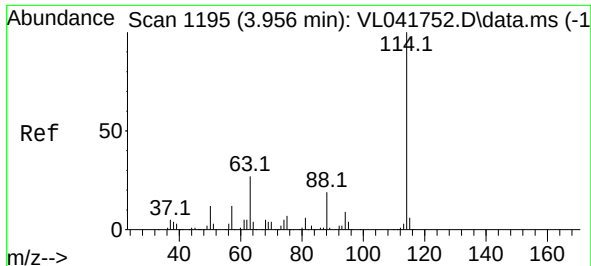
Tgt Ion: 61 Resp: 82779
Ion Ratio Lower Upper
61 100
96 62.2 49.7 74.5
98 40.0 30.8 46.2



#32
1,1,1-Trichloroethane
Concen: 8.807 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 97 Resp: 136055
Ion Ratio Lower Upper
97 100
99 63.4 51.0 76.4
61 55.6 42.2 63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

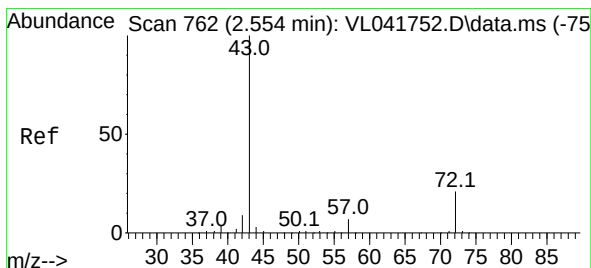
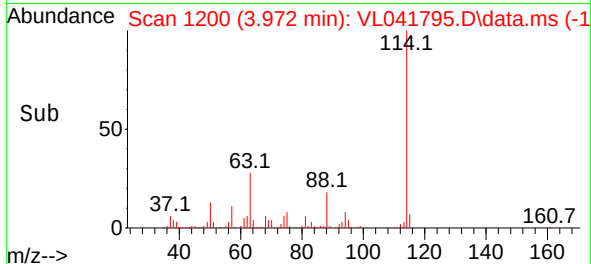
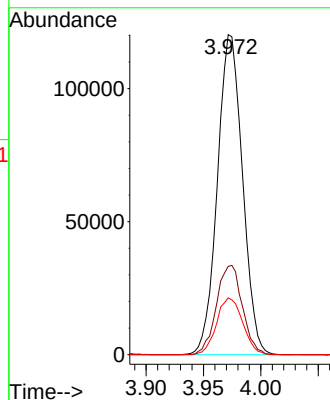
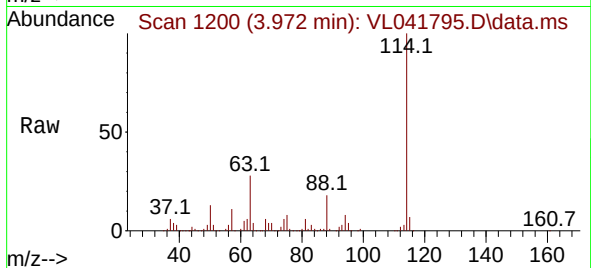
Tgt Ion:114 Resp: 183255

Ion Ratio Lower Upper

114 100

63 28.8 21.8 32.8

88 18.4 14.8 22.2



#34

2-Butanone

Concen: 8.525 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.009 min

Lab File: VL041795.D

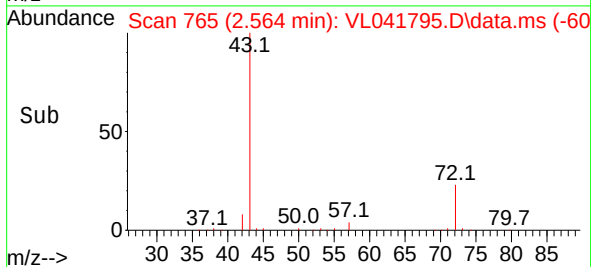
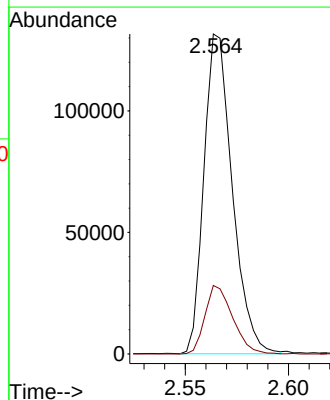
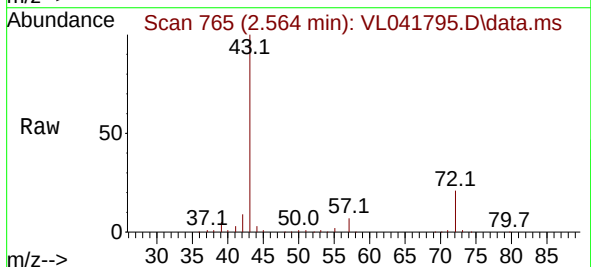
Acq: 18 Dec 2024 16:06

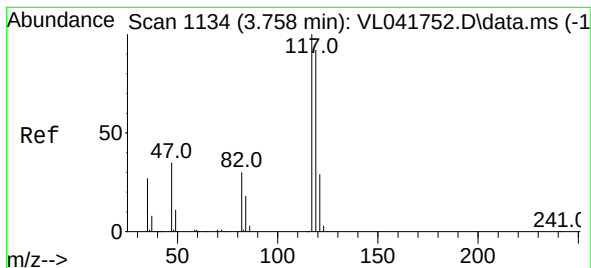
Tgt Ion: 43 Resp: 125687

Ion Ratio Lower Upper

43 100

72 20.9 16.8 25.2





#35

Carbon Tetrachloride

Concen: 10.854 ppbv

RT: 3.777 min Scan# 1110

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

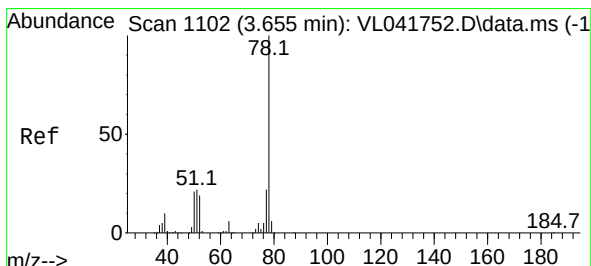
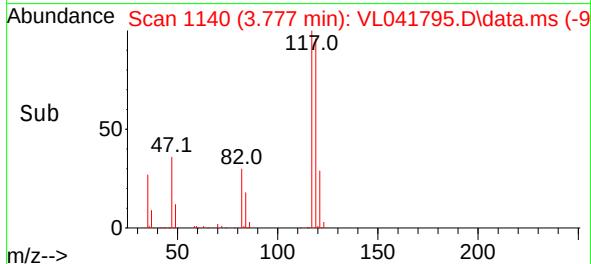
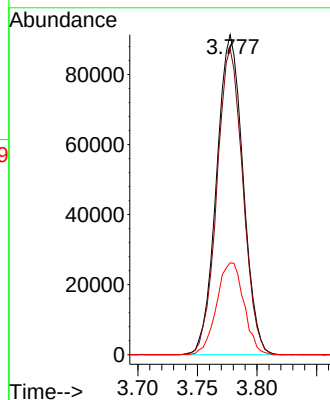
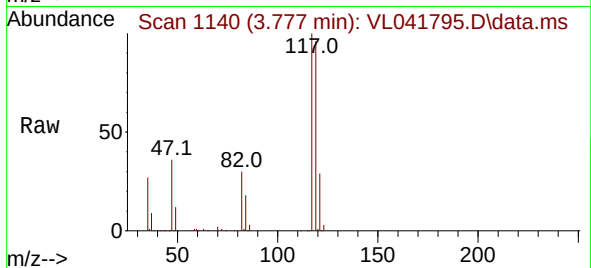
Tgt Ion:117 Resp: 141202

Ion Ratio Lower Upper

117 100

119 95.6 73.7 110.5

121 28.7 23.0 34.4



#36

Benzene

Concen: 8.674 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

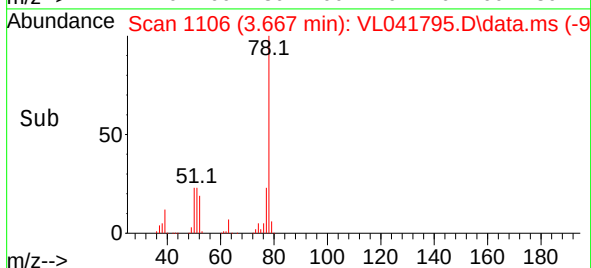
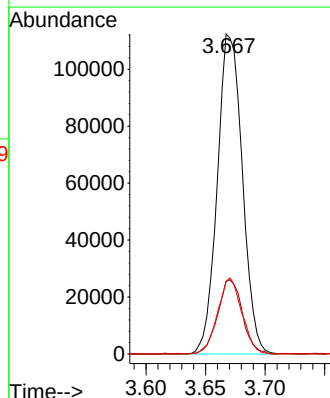
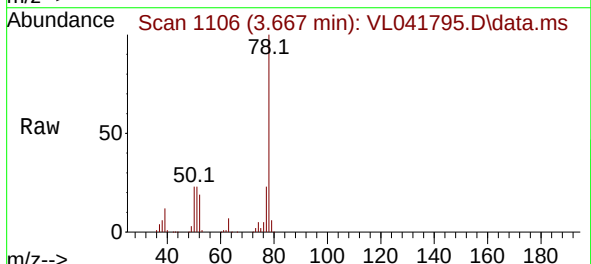
Tgt Ion: 78 Resp: 164423

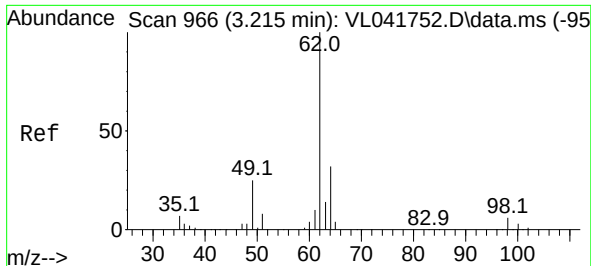
Ion Ratio Lower Upper

78 100

77 22.6 17.8 26.6

50 22.8 17.2 25.8





#37

1,2-Dichloroethane

Concen: 9.631 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

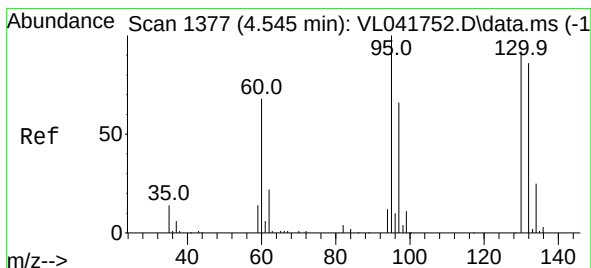
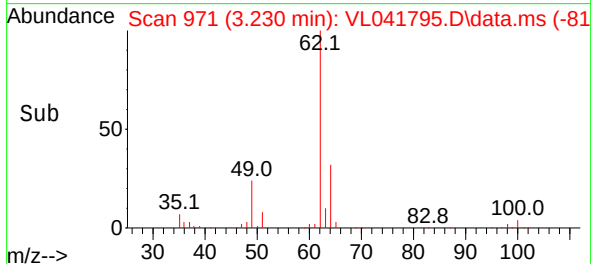
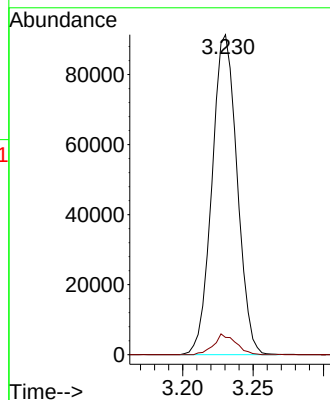
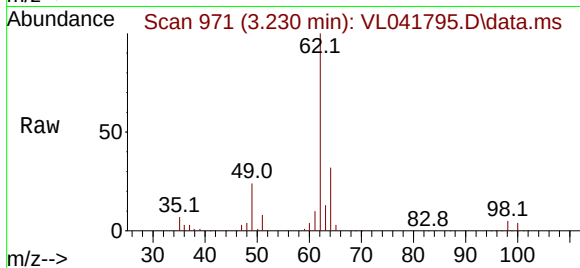
VL1218ABS01

Tgt Ion: 62 Resp: 113600

Ion Ratio Lower Upper

62 100

98 5.7 4.7 7.1



#38

Trichloroethene

Concen: 7.864 ppbv

RT: 4.564 min Scan# 1383

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion:130 Resp: 63280

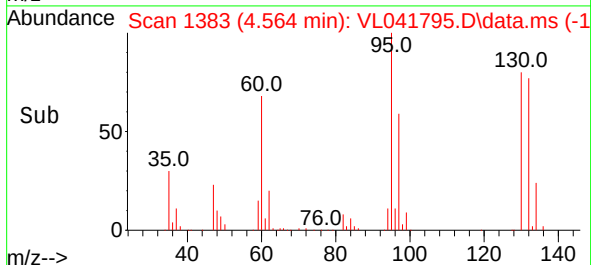
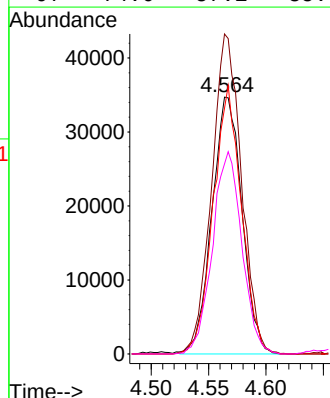
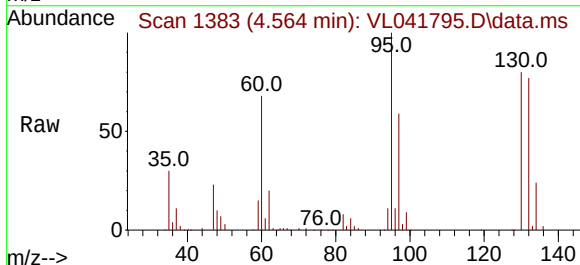
Ion Ratio Lower Upper

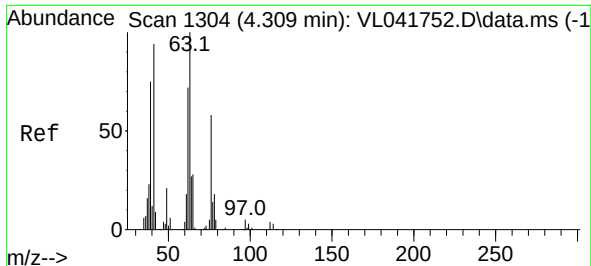
130 100

95 124.4 87.0 130.6

132 95.7 75.0 112.6

97 74.0 57.2 85.8





#39

1,2-Dichloropropane

Concen: 8.541 ppbv

RT: 4.331 min Scan# 1311

Delta R.T. 0.022 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

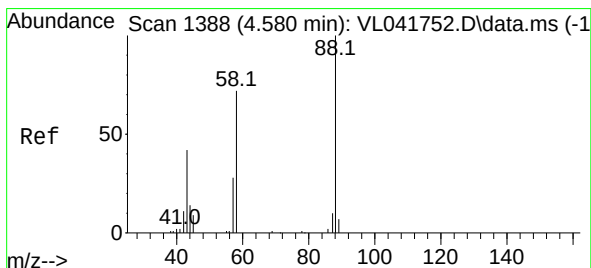
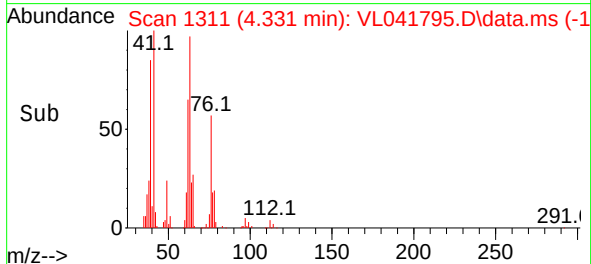
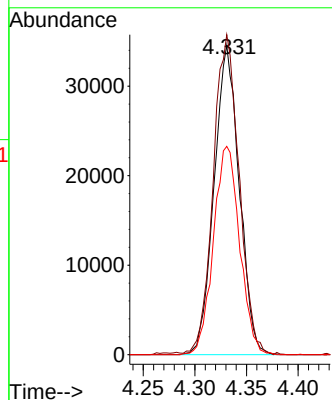
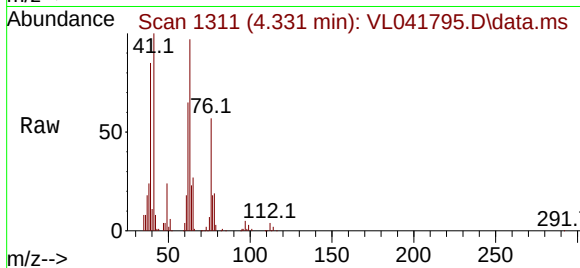
Tgt Ion: 63 Resp: 58553

Ion Ratio Lower Upper

63 100

41 103.2 75.3 112.9

62 67.3 57.3 85.9



#40

1,4-Dioxane

Concen: 8.624 ppbv

RT: 4.599 min Scan# 1394

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion: 88 Resp: 28884

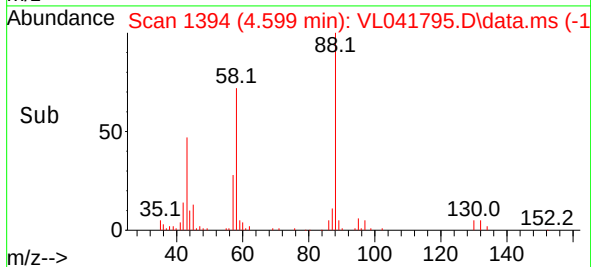
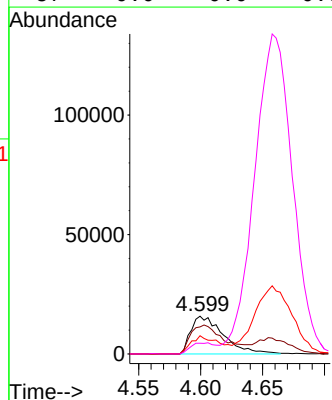
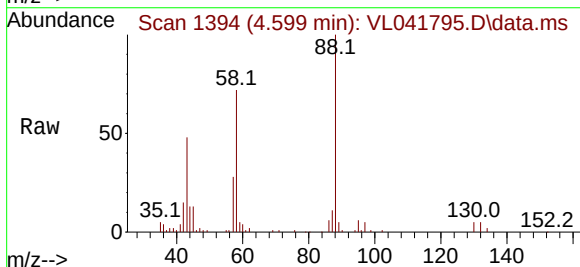
Ion Ratio Lower Upper

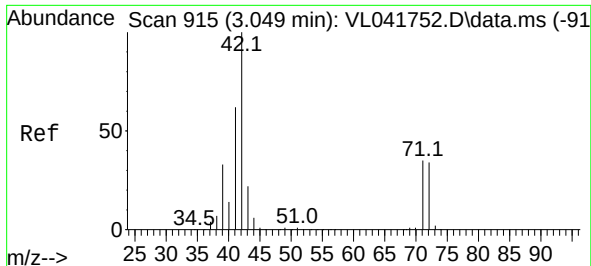
88 100

58 83.5 61.0 91.6

43 40.2 29.4 44.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 8.114 ppbv

RT: 3.065 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

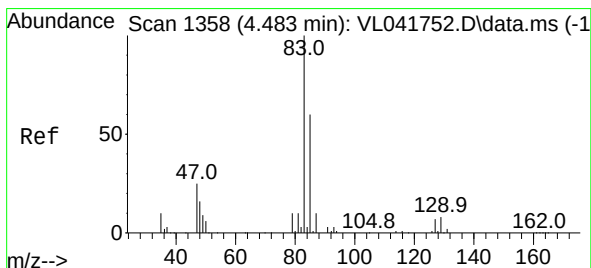
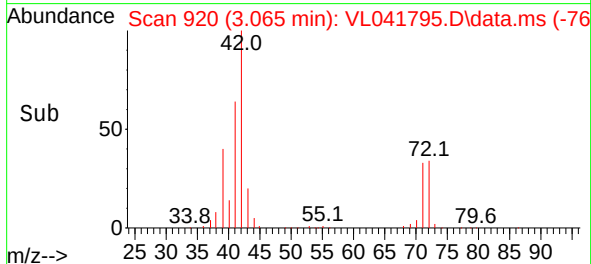
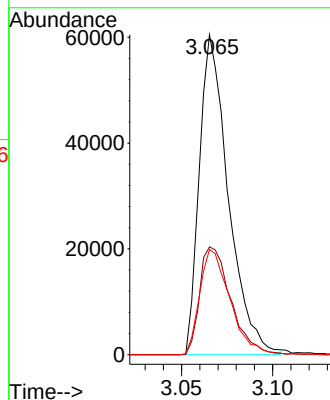
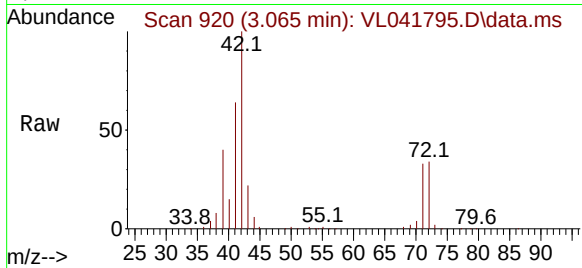
Tgt Ion: 42 Resp: 67017

Ion Ratio Lower Upper

42 100

72 36.3 29.1 43.7

71 34.4 28.4 42.6



#42

Bromodichloromethane

Concen: 9.839 ppbv

RT: 4.509 min Scan# 1366

Delta R.T. 0.026 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

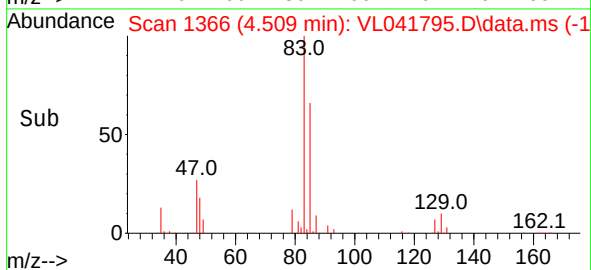
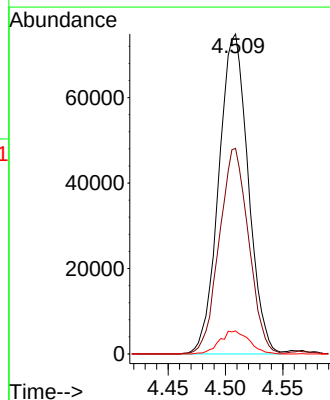
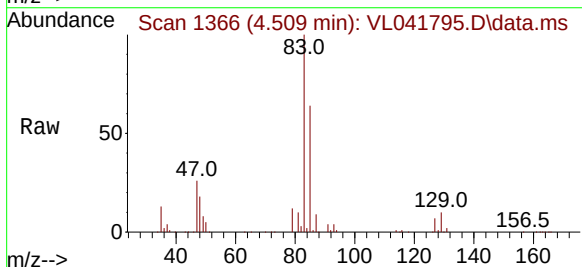
Tgt Ion: 83 Resp: 133513

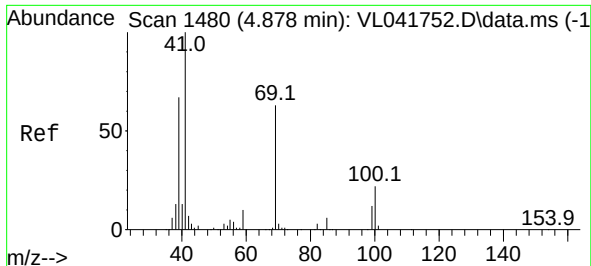
Ion Ratio Lower Upper

83 100

85 64.2 48.0 72.0

127 7.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 8.448 ppbv

RT: 4.897 min Scan# 1486

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

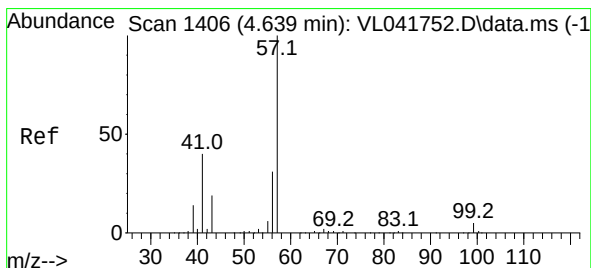
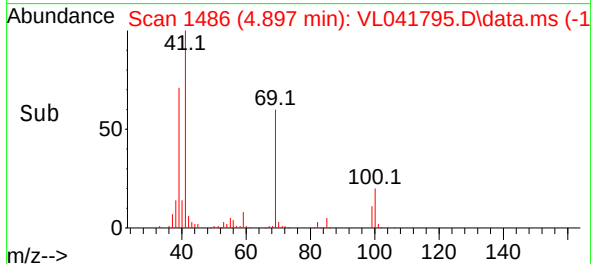
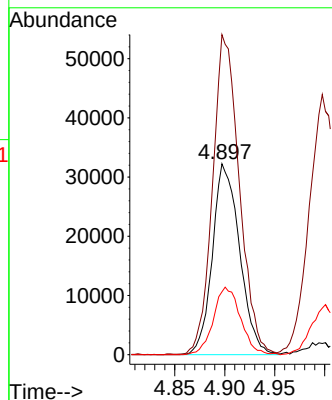
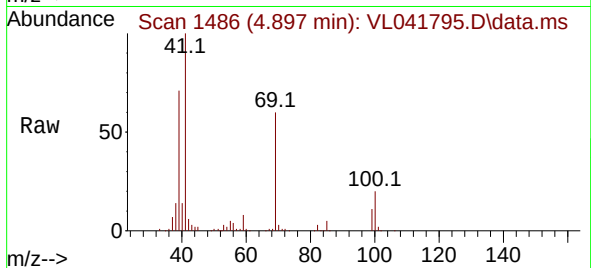
Tgt Ion: 69 Resp: 61014

Ion Ratio Lower Upper

69 100

41 165.0 130.3 195.5

100 35.3 28.3 42.5



#44

2,2,4-Trimethylpentane

Concen: 8.777 ppbv

RT: 4.658 min Scan# 1412

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

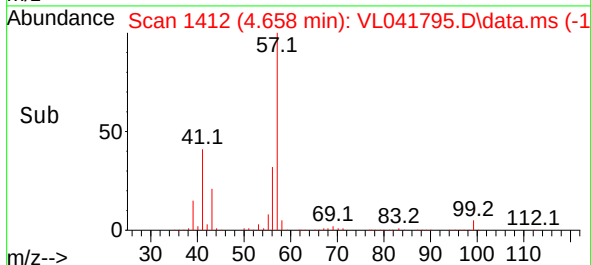
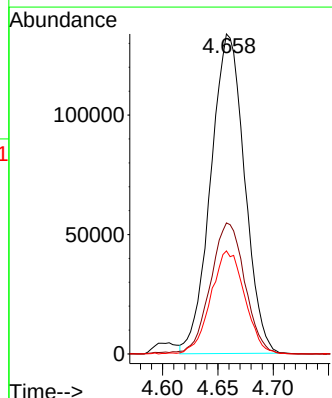
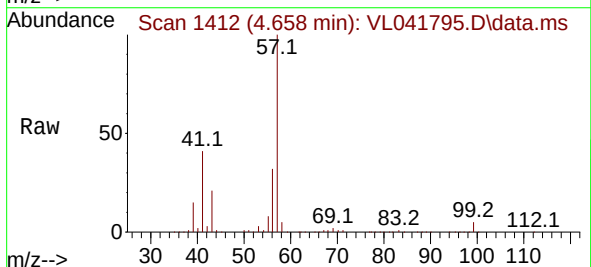
Tgt Ion: 57 Resp: 284140

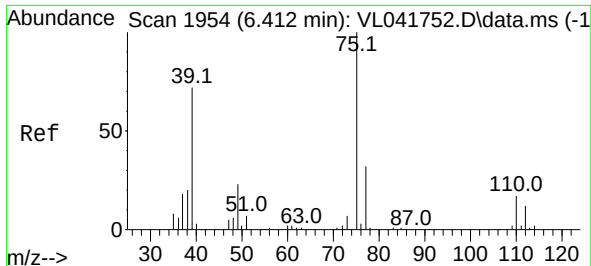
Ion Ratio Lower Upper

57 100

41 42.1 30.7 46.1

56 32.6 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 7.879 ppbv

RT: 6.438 min Scan# 1

Delta R.T. 0.026 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

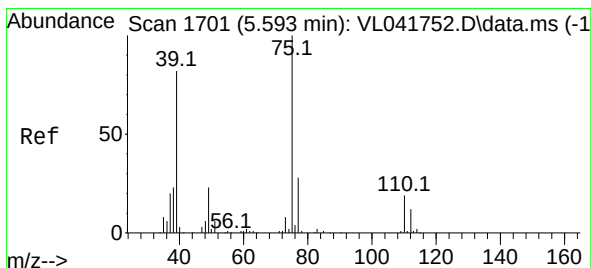
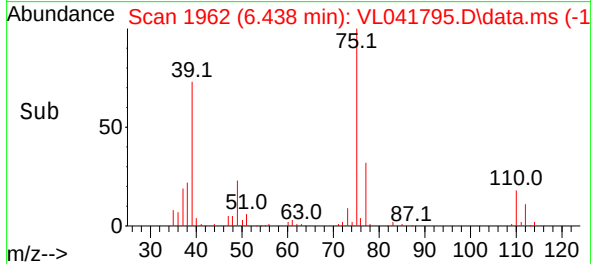
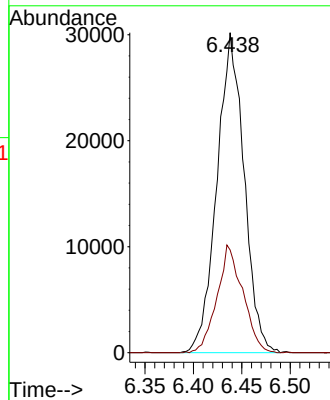
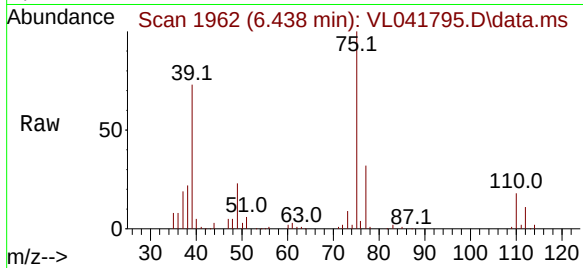
VL1218ABS01

Tgt Ion: 75 Resp: 58865

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 7.824 ppbv

RT: 5.625 min Scan# 1711

Delta R.T. 0.032 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

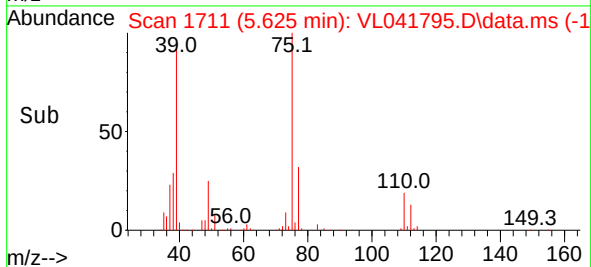
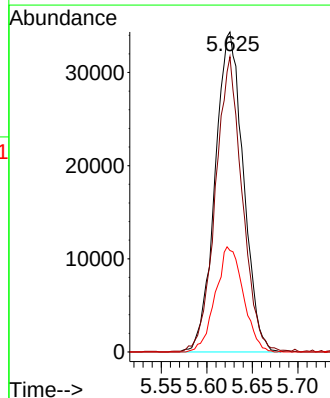
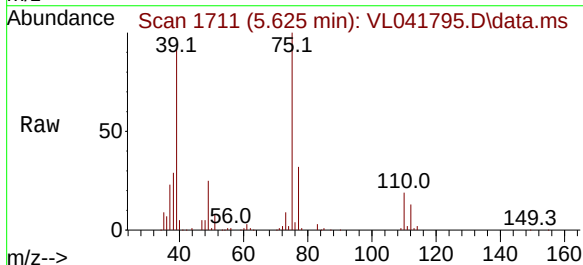
Tgt Ion: 75 Resp: 74198

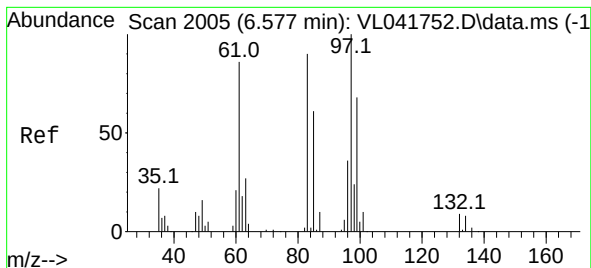
Ion Ratio Lower Upper

75 100

39 92.0 65.2 97.8

77 31.7 22.0 33.0





#47

1,1,2-Trichloroethane

Concen: 9.071 ppbv

RT: 6.603 min Scan# 2005

Delta R.T. 0.026 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

Tgt Ion: 97 Resp: 64954

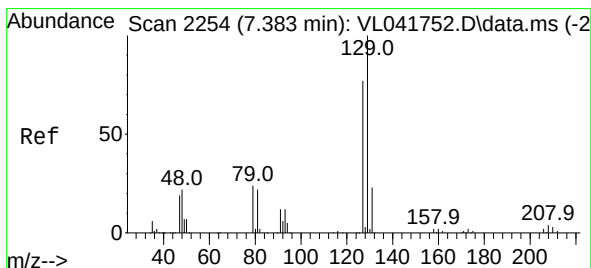
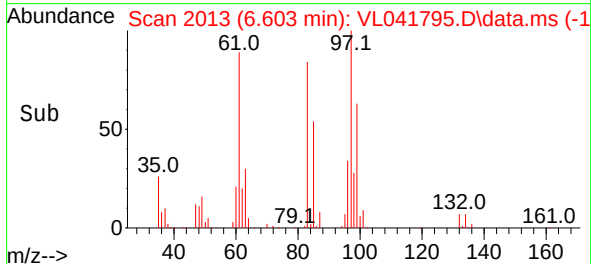
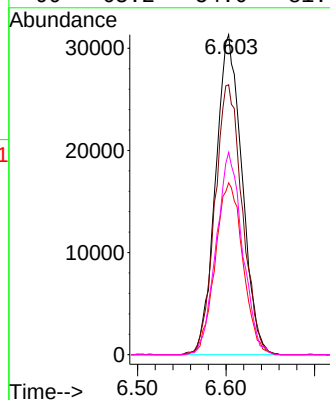
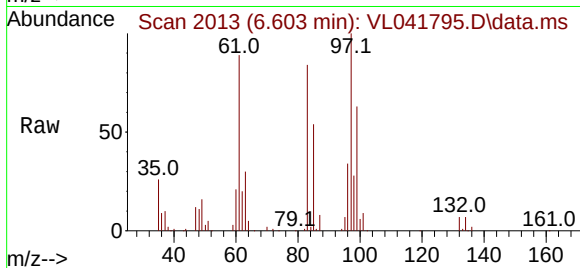
Ion Ratio Lower Upper

97 100

83 84.4 72.3 108.5

85 53.7 48.5 72.7

99 63.2 54.0 81.0



#48

Dibromochloromethane

Concen: 9.920 ppbv

RT: 7.406 min Scan# 2261

Delta R.T. 0.022 min

Lab File: VL041795.D

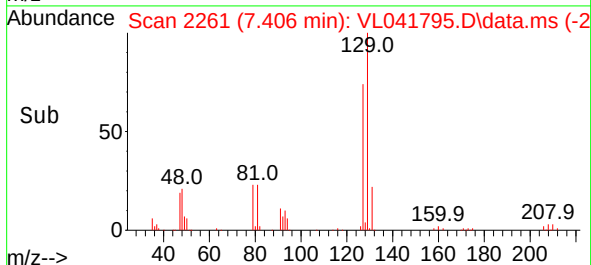
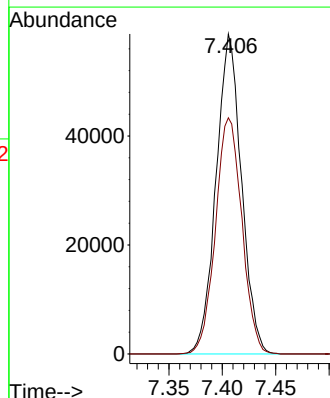
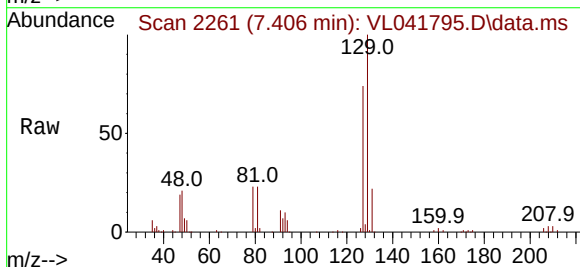
Acq: 18 Dec 2024 16:06

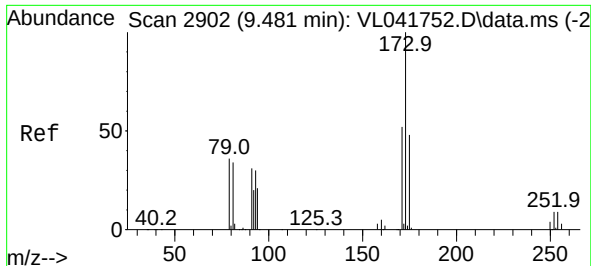
Tgt Ion: 129 Resp: 96996

Ion Ratio Lower Upper

129 100

127 76.8 38.8 116.3





#49

Bromoform

Concen: 10.100 ppbv

RT: 9.500 min Scan# 20

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

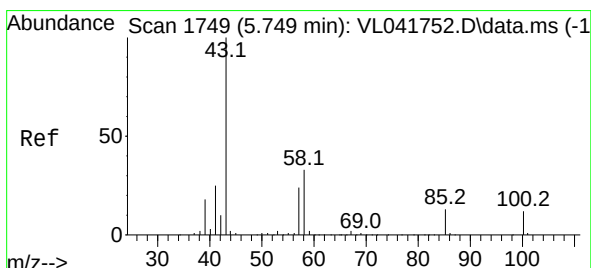
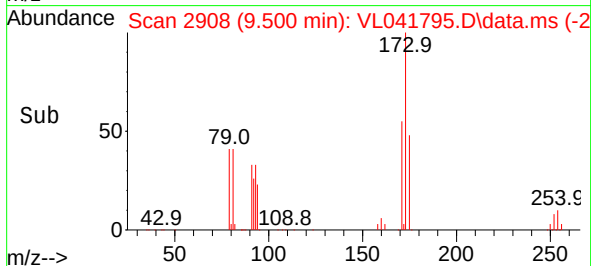
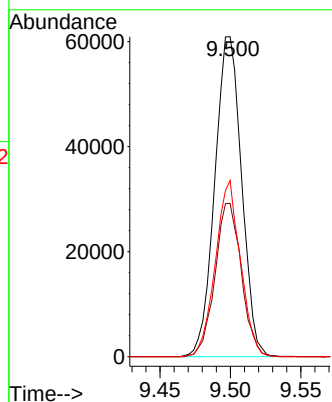
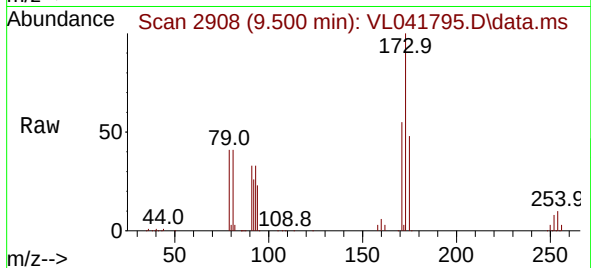
Tgt Ion:173 Resp: 80840

Ion Ratio Lower Upper

173 100

175 47.1 38.2 57.2

171 51.5 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 8.759 ppbv

RT: 5.774 min Scan# 1757

Delta R.T. 0.026 min

Lab File: VL041795.D

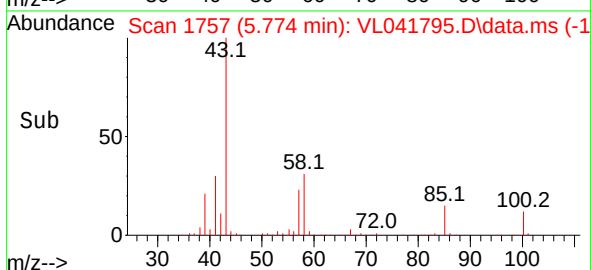
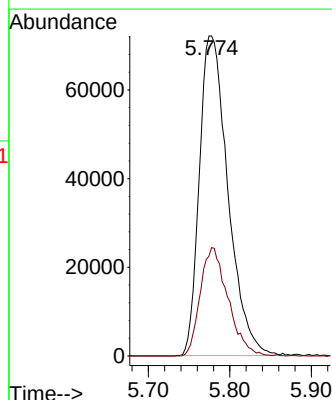
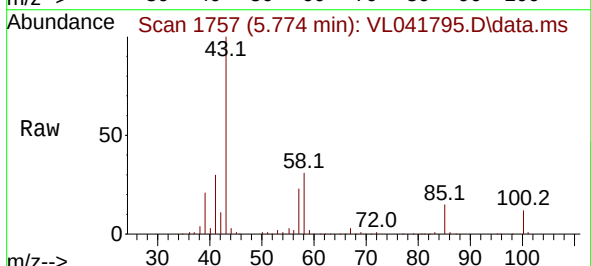
Acq: 18 Dec 2024 16:06

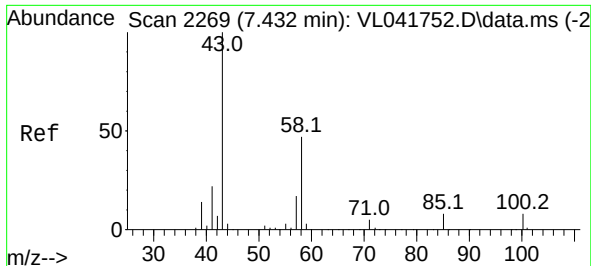
Tgt Ion: 43 Resp: 175817

Ion Ratio Lower Upper

43 100

58 32.9 26.8 40.2

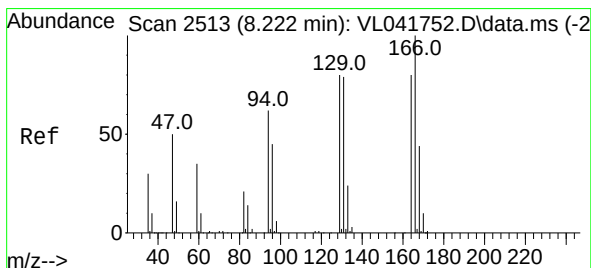
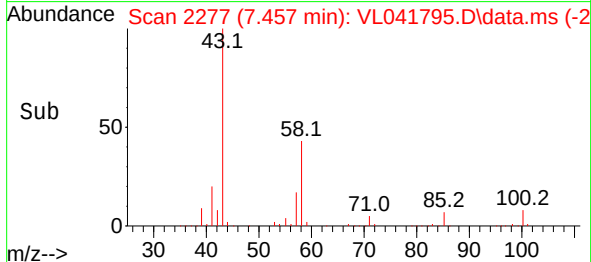
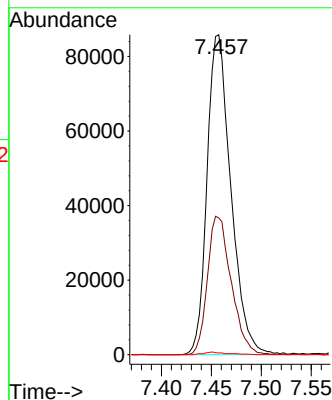
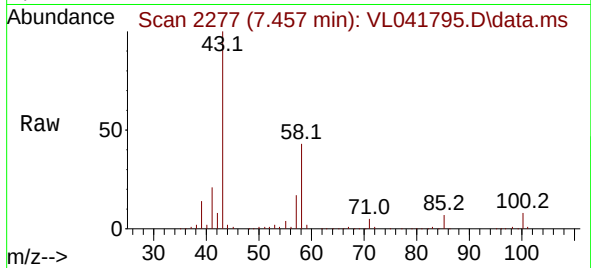




#51
2-Hexanone
Concen: 8.752 ppbv
RT: 7.457 min Scan# 21
Delta R.T. 0.025 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

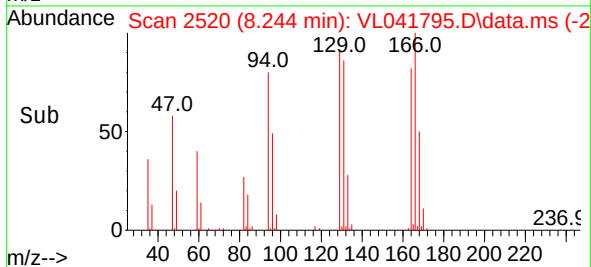
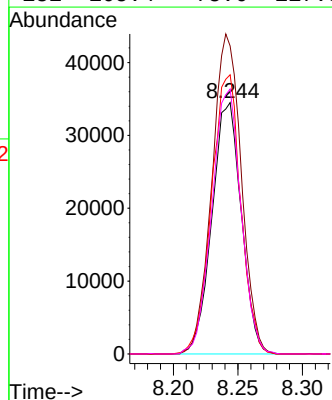
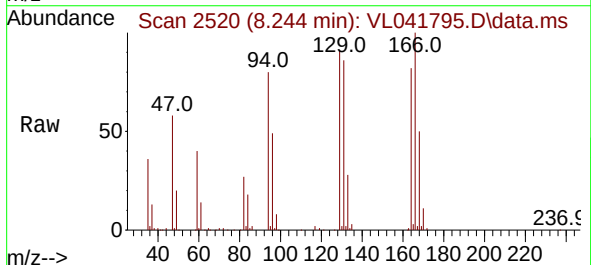
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

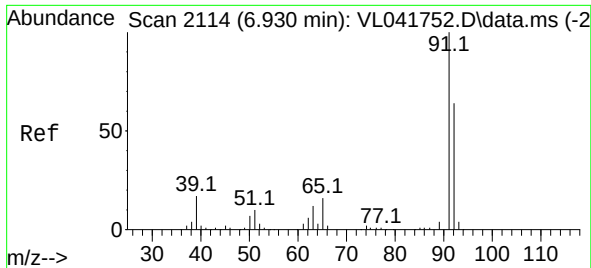
Tgt Ion: 43 Resp: 142403
Ion Ratio Lower Upper
43 100
58 43.1 36.6 55.0
98 0.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 7.729 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 164 Resp: 54531
Ion Ratio Lower Upper
164 100
166 122.5 99.8 149.6
129 111.1 79.6 119.4
131 105.4 78.6 117.8





#53

Toluene

Concen: 8.265 ppbv

RT: 6.952 min Scan# 2114

Delta R.T. 0.022 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

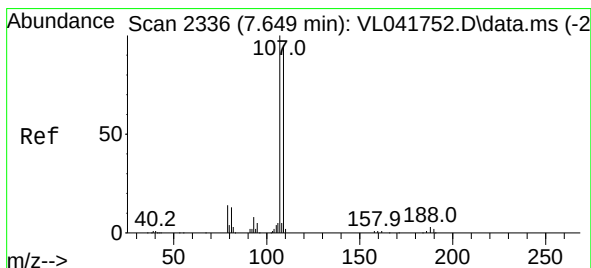
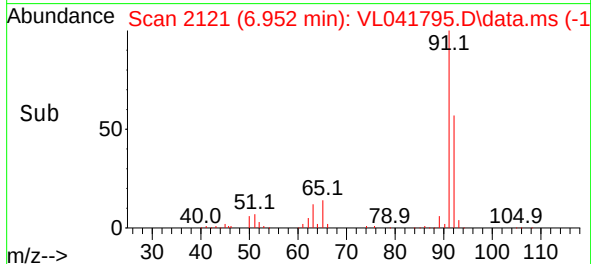
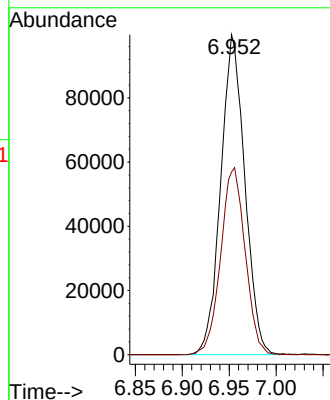
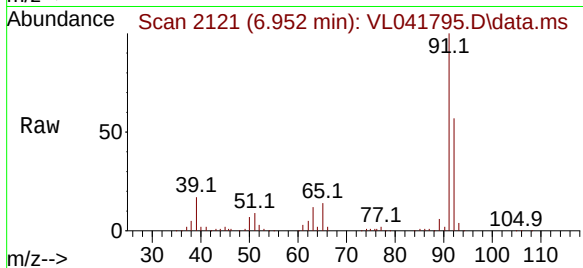
VL1218ABS01

Tgt Ion: 91 Resp: 177625

Ion Ratio Lower Upper

91 100

92 59.4 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.161 ppbv

RT: 7.671 min Scan# 2343

Delta R.T. 0.022 min

Lab File: VL041795.D

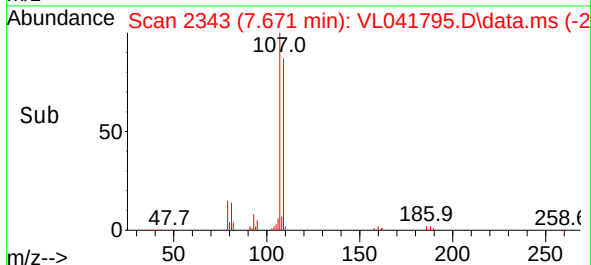
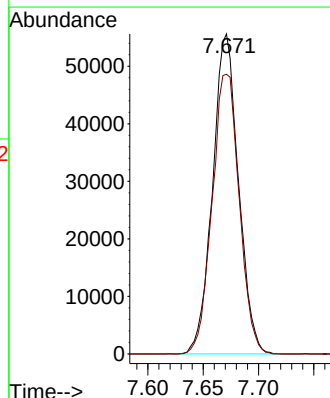
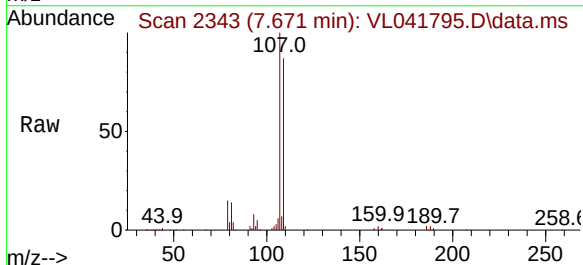
Acq: 18 Dec 2024 16:06

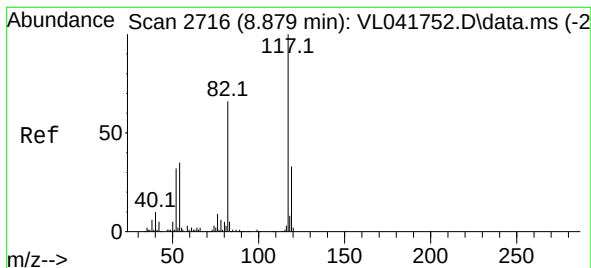
Tgt Ion: 107 Resp: 90389

Ion Ratio Lower Upper

107 100

109 87.4 75.9 113.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 2716

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01

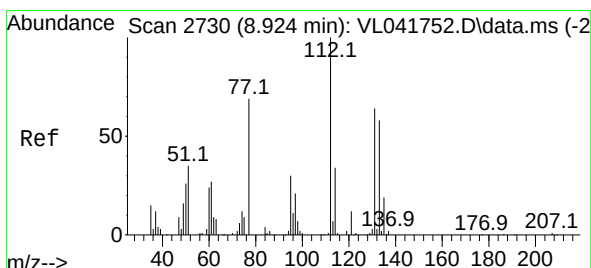
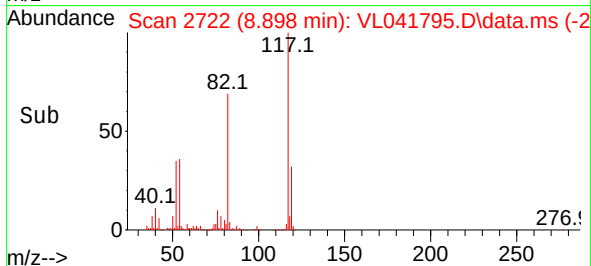
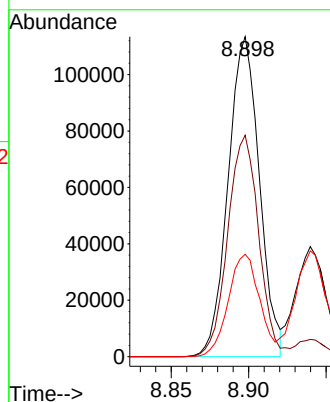
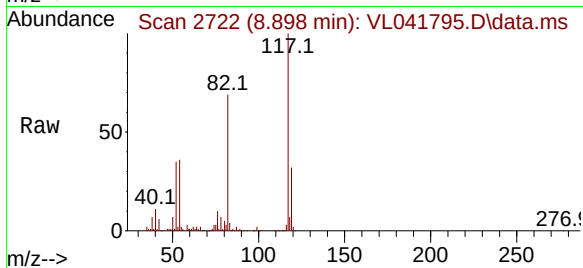
Tgt Ion:117 Resp: 159496

Ion Ratio Lower Upper

117 100

82 74.0 53.8 80.8

119 32.0 26.7 40.1



#56

1,1,1,2-Tetrachloroethane

Concen: 10.202 ppbv

RT: 8.943 min Scan# 2736

Delta R.T. 0.019 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

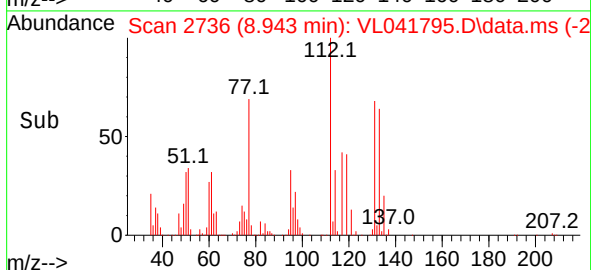
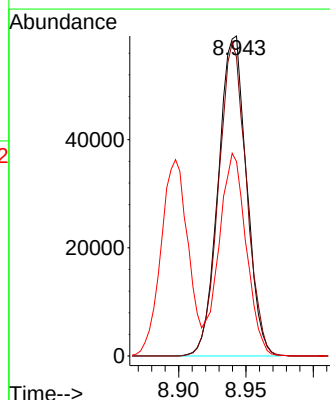
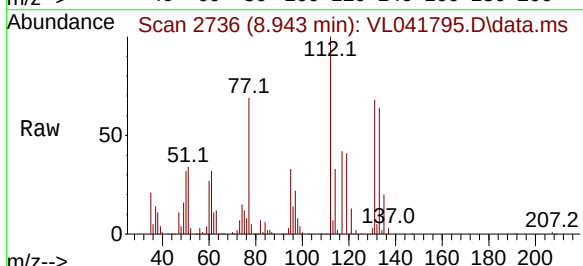
Tgt Ion:131 Resp: 86262

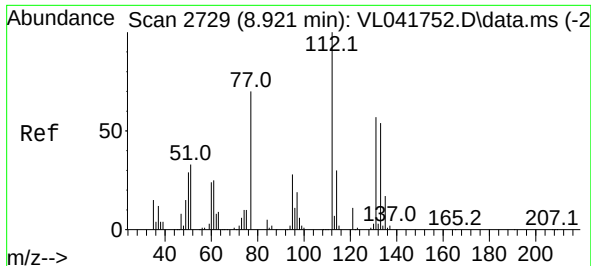
Ion Ratio Lower Upper

131 100

133 96.4 76.8 115.2

119 61.2 49.0 73.6

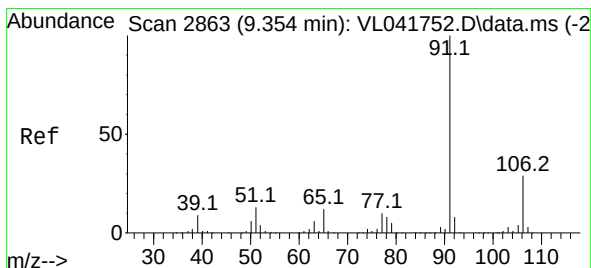
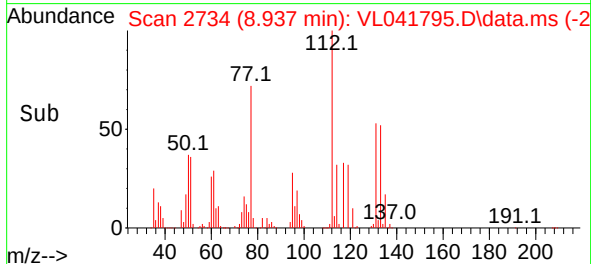
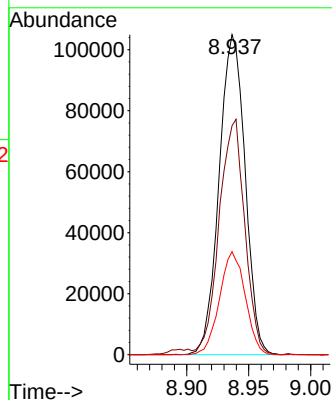
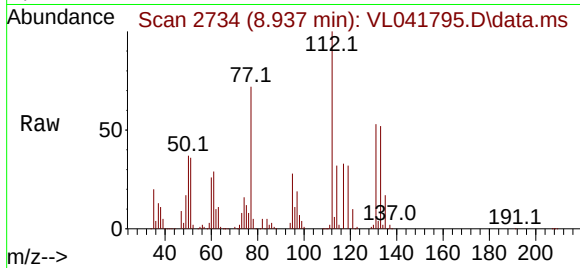




#57
Chlorobenzene
Concen: 9.415 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

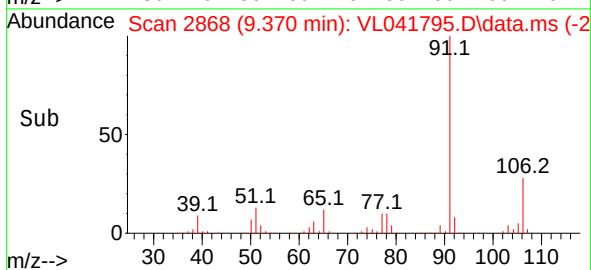
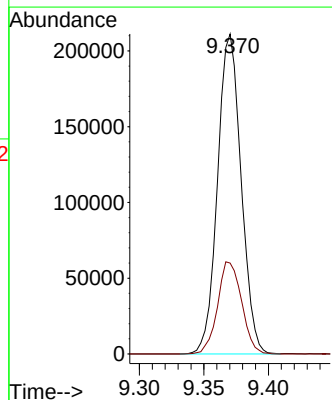
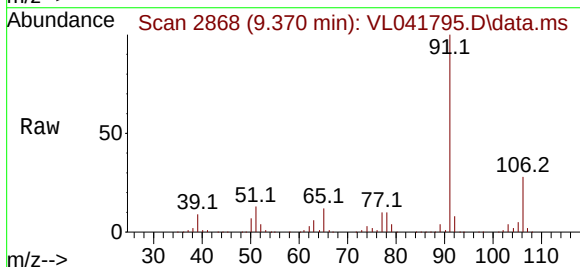
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

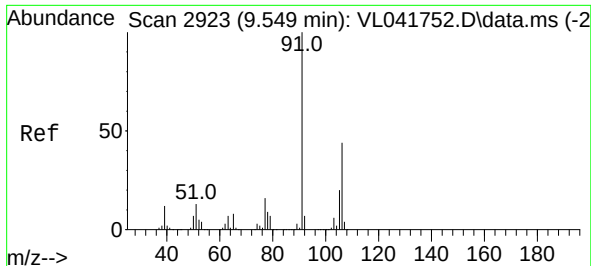
Tgt Ion:112 Resp: 153659
Ion Ratio Lower Upper
112 100
77 71.6 57.4 86.0
114 32.2 27.4 33.4



#58
Ethyl Benzene
Concen: 9.326 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 91 Resp: 267795
Ion Ratio Lower Upper
91 100
106 28.4 23.5 35.3





#59

m/p-Xylene

Concen: 8.573 ppbv

RT: 9.564 min Scan# 2923

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

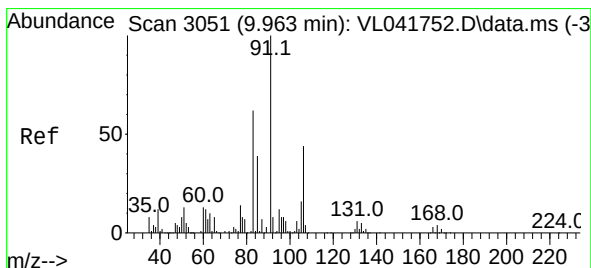
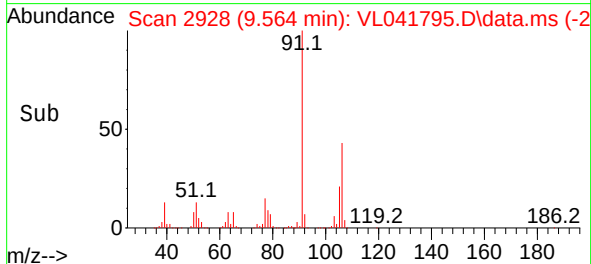
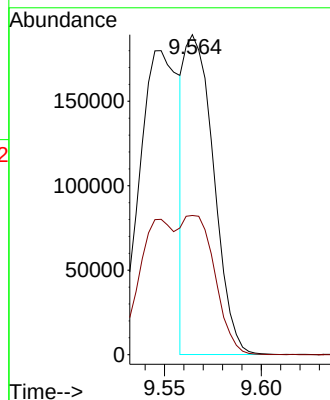
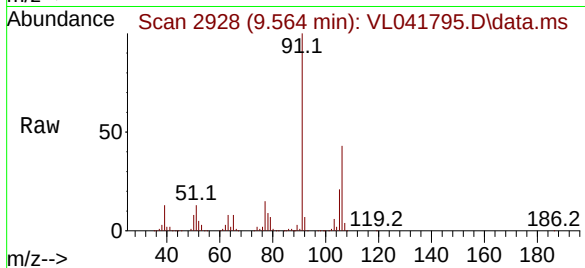
VL1218ABS01

Tgt Ion: 91 Resp: 197933

Ion Ratio Lower Upper

91 100

106 103.7 0.0 0.0#



#60

o-Xylene

Concen: 9.930 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL041795.D

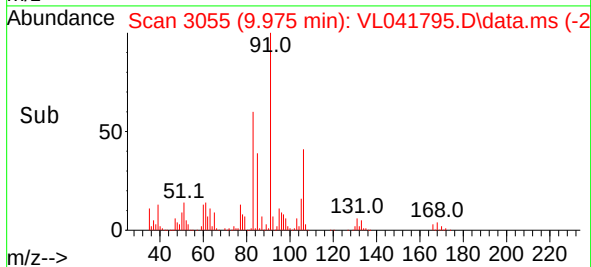
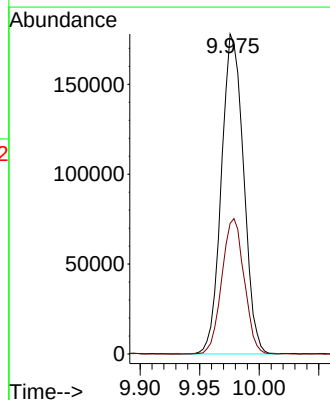
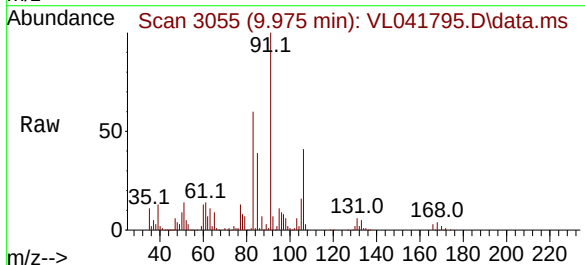
Acq: 18 Dec 2024 16:06

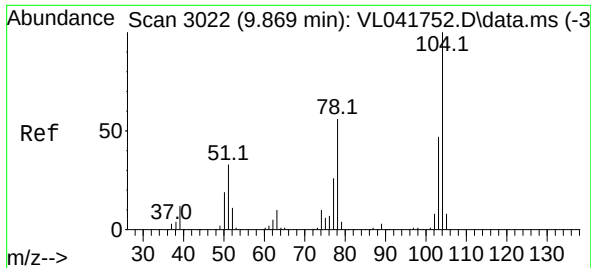
Tgt Ion: 91 Resp: 229919

Ion Ratio Lower Upper

91 100

106 42.5 21.1 63.4

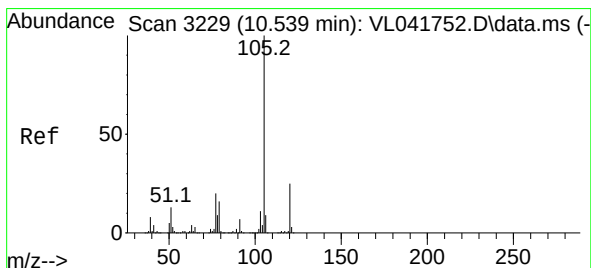
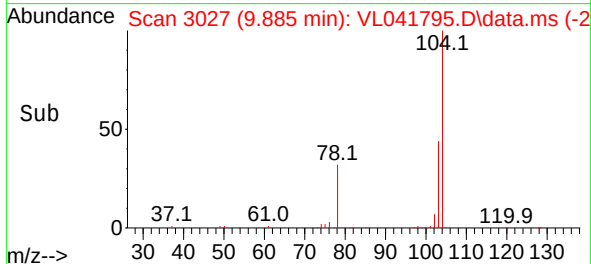
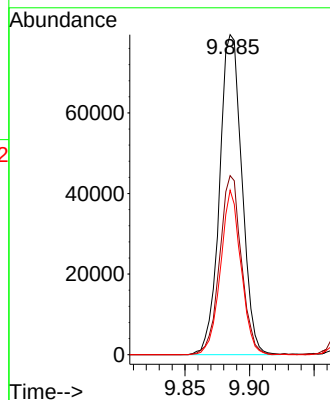
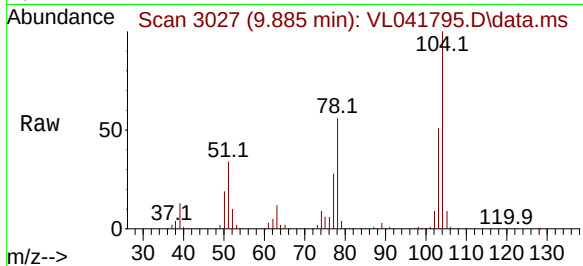




#61
Styrene
Concen: 9.543 ppbv
RT: 9.885 min Scan# 3022
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

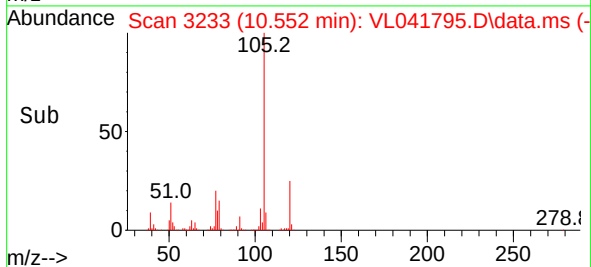
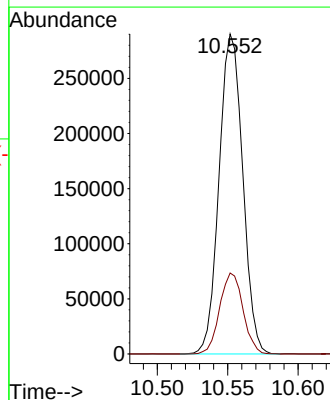
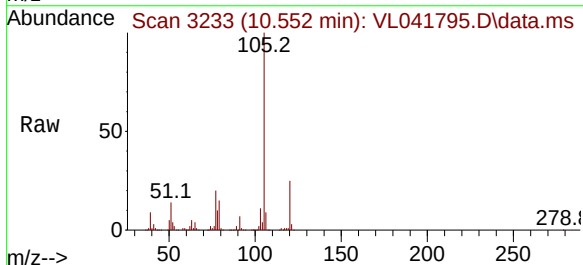
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

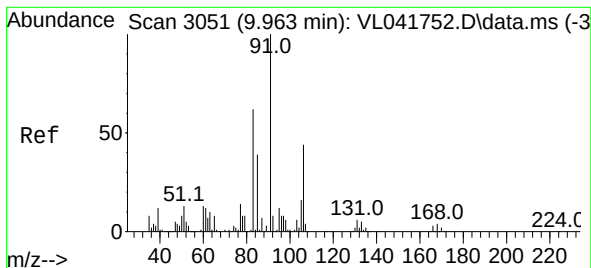
Tgt Ion:104 Resp: 95536
Ion Ratio Lower Upper
104 100
78 54.4 43.8 65.6
103 47.1 37.8 56.6



#62
Isopropylbenzene
Concen: 9.762 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:105 Resp: 339599
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 9.817 ppbv

RT: 9.975 min Scan# 3051

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

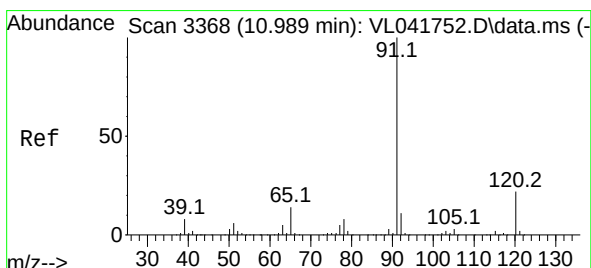
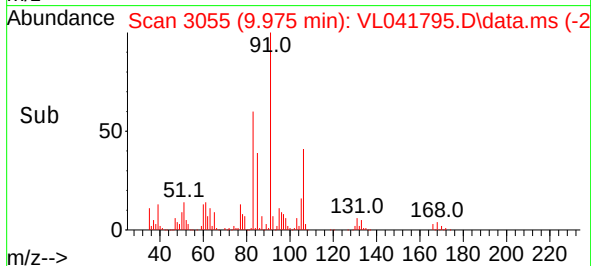
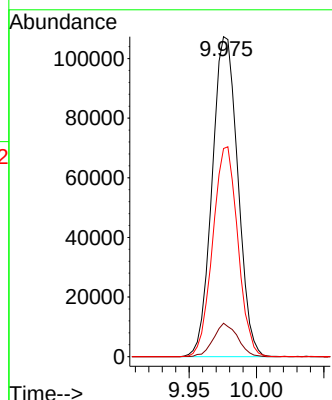
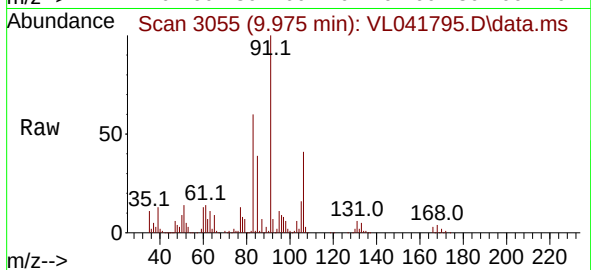
Tgt Ion: 83 Resp: 142272

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

85 64.1 32.0 96.2



#64

n-propylbenzene

Concen: 9.880 ppbv

RT: 11.002 min Scan# 3372

Delta R.T. 0.013 min

Lab File: VL041795.D

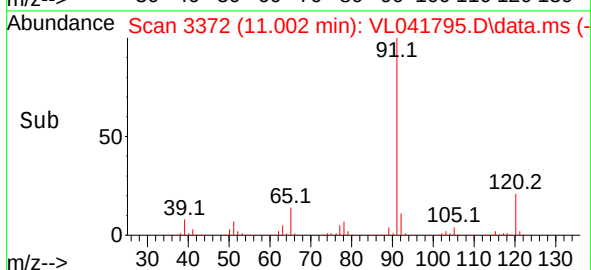
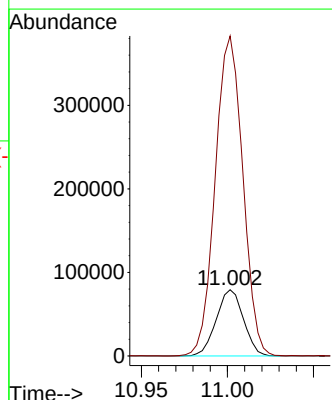
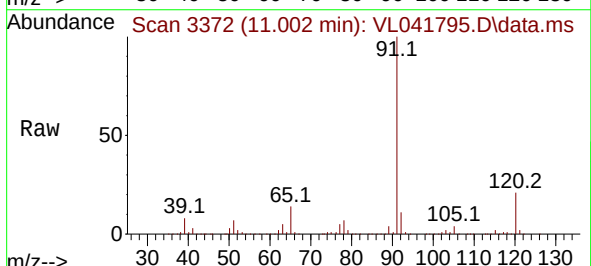
Acq: 18 Dec 2024 16:06

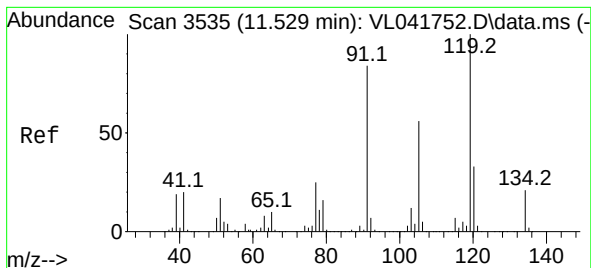
Tgt Ion:120 Resp: 86896

Ion Ratio Lower Upper

120 100

91 493.0 387.3 580.9

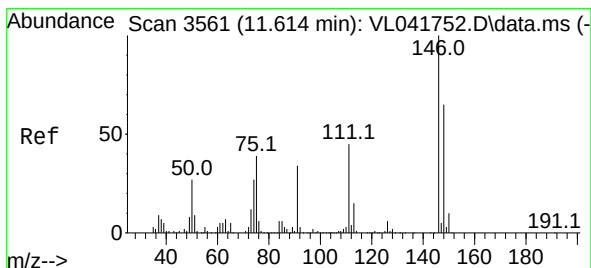
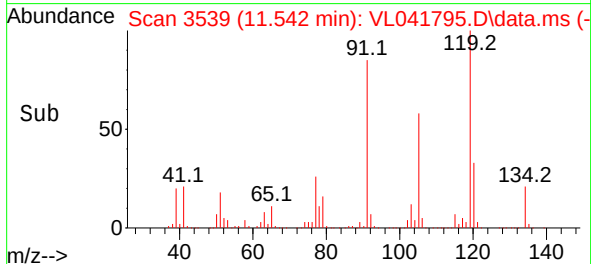
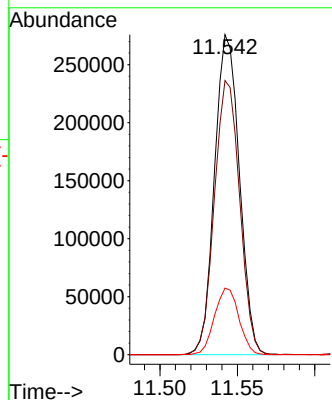
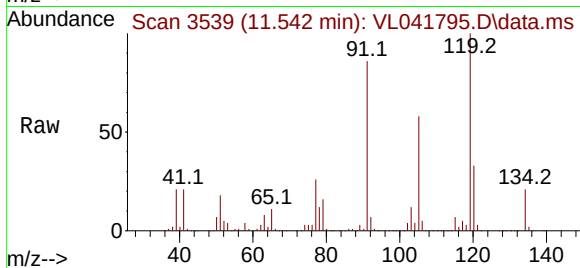




#65
tert-Butylbenzene
Concen: 9.808 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

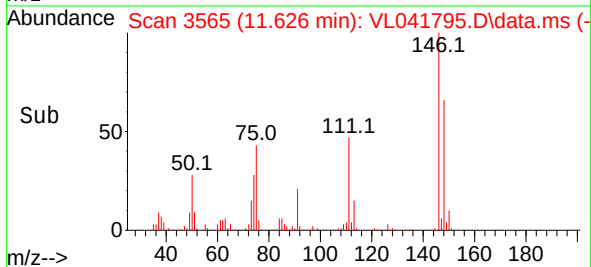
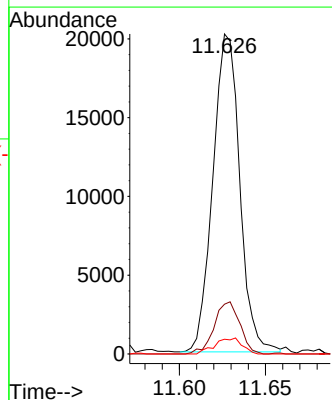
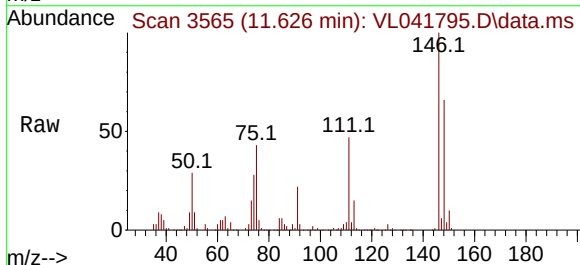
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

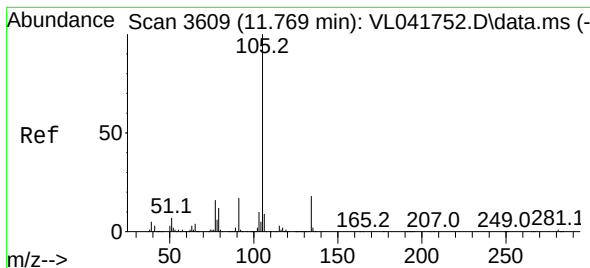
Tgt Ion:119 Resp: 307835
Ion Ratio Lower Upper
119 100
91 87.3 67.0 100.4
134 20.4 16.5 24.7



#66
Benzyl Chloride
Concen: 7.936 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion: 91 Resp: 21939
Ion Ratio Lower Upper
91 100
126 15.7 13.9 20.9
128 5.1 4.4 6.6

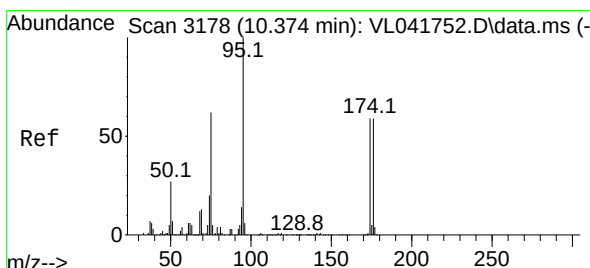
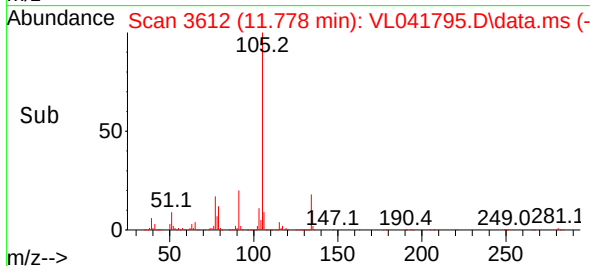
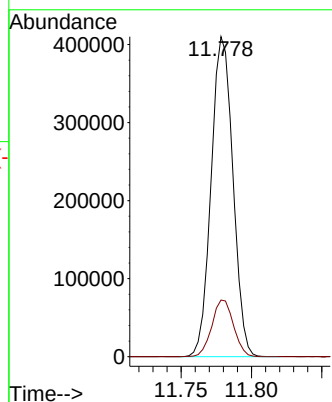
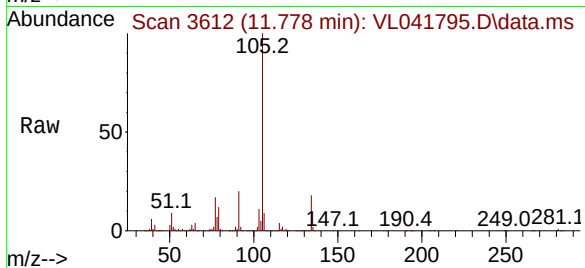




#67
 sec-Butylbenzene
 Concen: 10.167 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.009 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

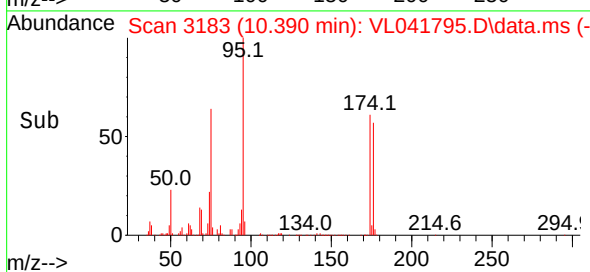
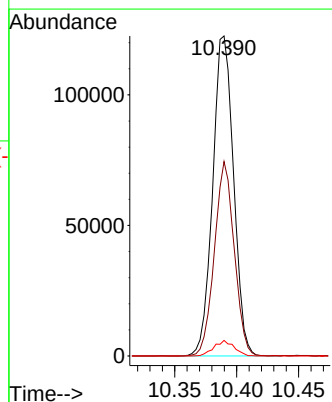
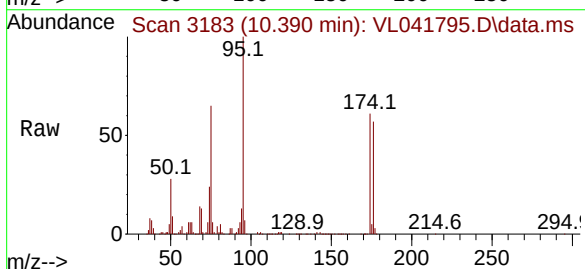
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

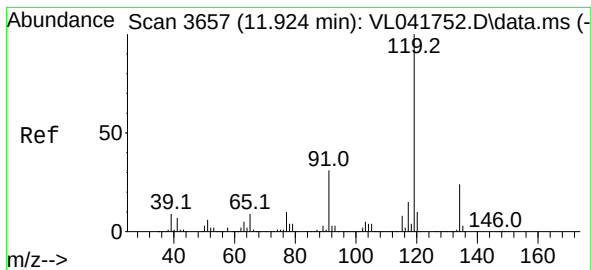
Tgt Ion:105 Resp: 441578
 Ion Ratio Lower Upper
 105 100
 134 17.6 14.5 21.7



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.825 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. 0.016 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

Tgt Ion: 95 Resp: 143879
 Ion Ratio Lower Upper
 95 100
 174 57.9 47.6 71.4
 175 4.6 3.7 5.5





#69

p-Isopropyltoluene

Concen: 10.229 ppbv

RT: 11.937 min Scan# 3661

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

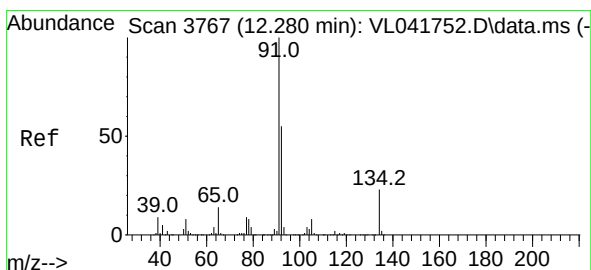
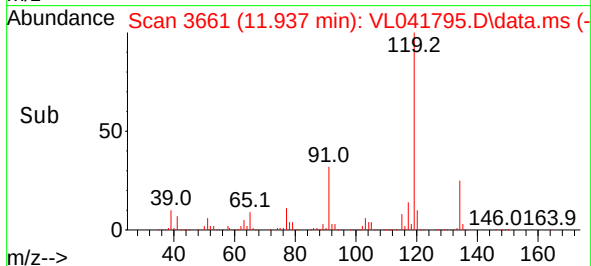
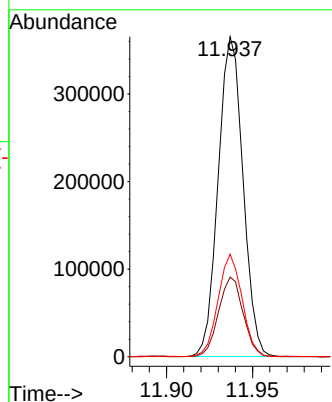
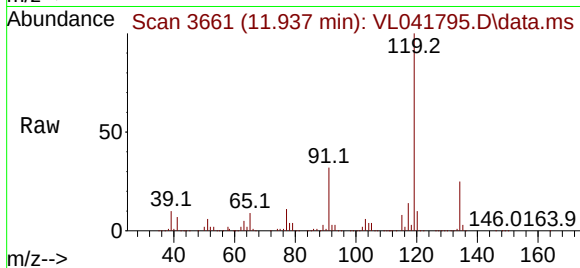
Tgt Ion:119 Resp: 366111

Ion Ratio Lower Upper

119 100

134 24.7 19.6 29.4

91 31.3 24.4 36.6



#70

n-Butylbenzene

Concen: 10.597 ppbv

RT: 12.293 min Scan# 3771

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

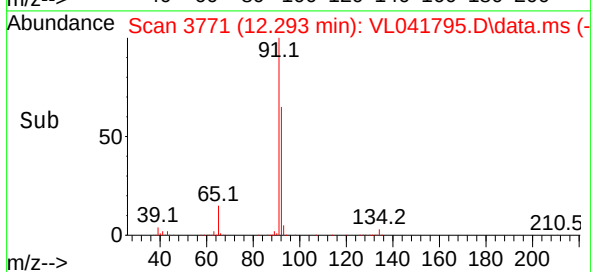
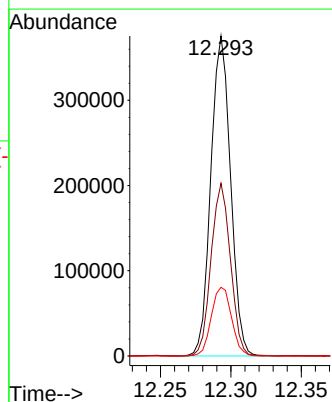
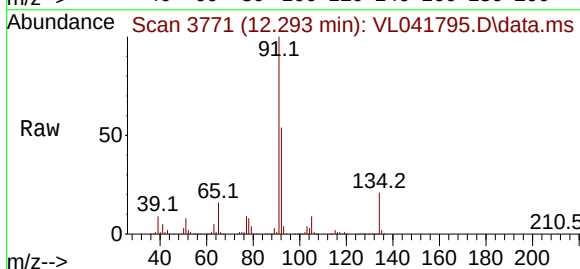
Tgt Ion: 91 Resp: 366451

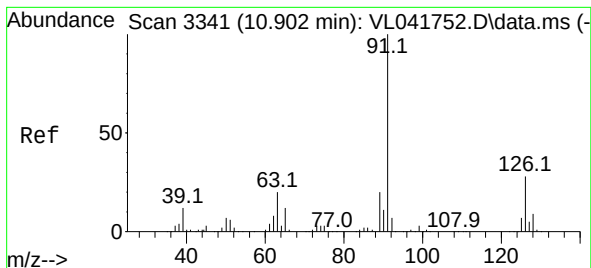
Ion Ratio Lower Upper

91 100

92 52.8 43.2 64.8

134 22.0 18.2 27.4

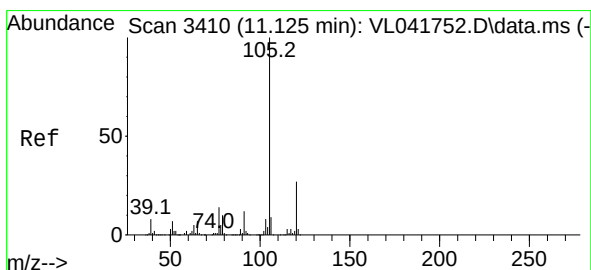
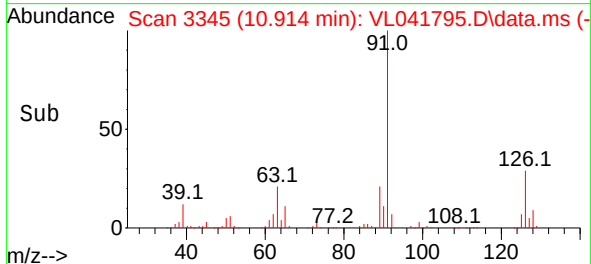
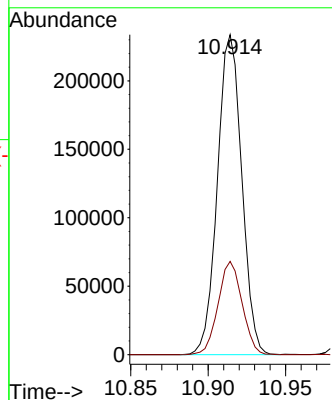
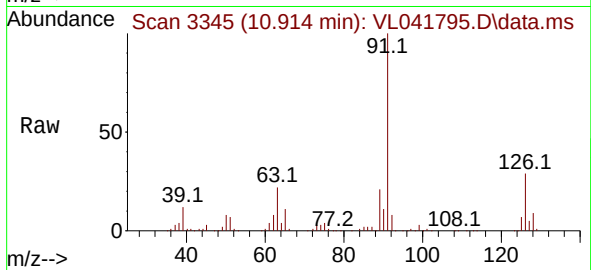




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.914 min Scan# 3414
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

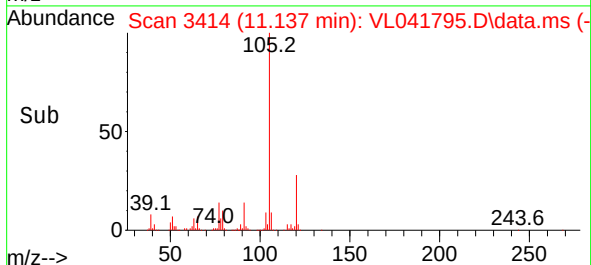
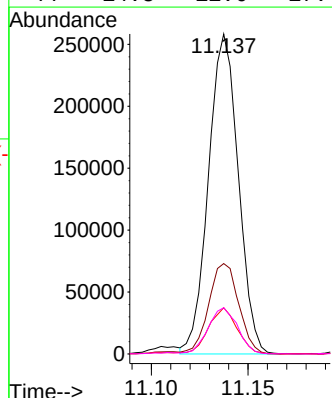
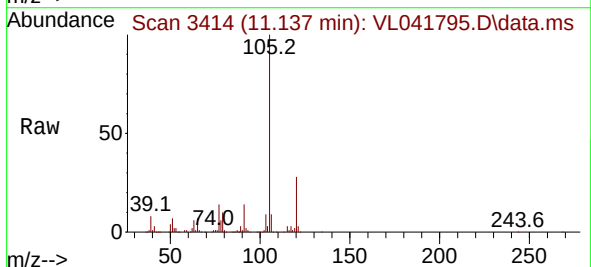
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

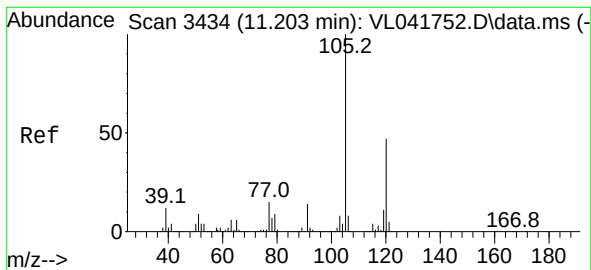
Tgt Ion: 91 Resp: 255490
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 10.137 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:105 Resp: 277025
Ion Ratio Lower Upper
105 100
120 29.1 23.3 34.9
91 14.4 10.9 16.3
77 14.8 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 10.613 ppbv

RT: 11.215 min Scan# 3438

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

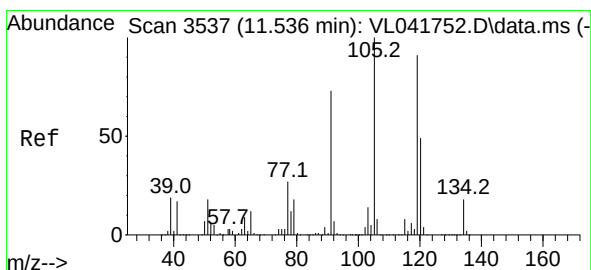
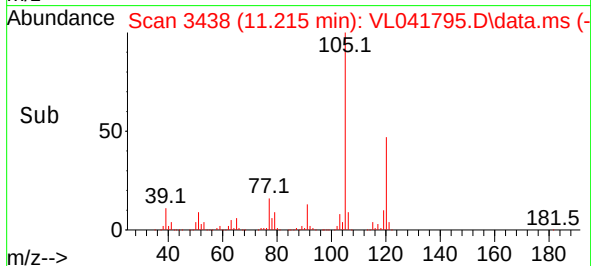
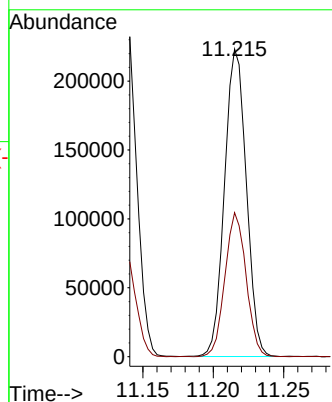
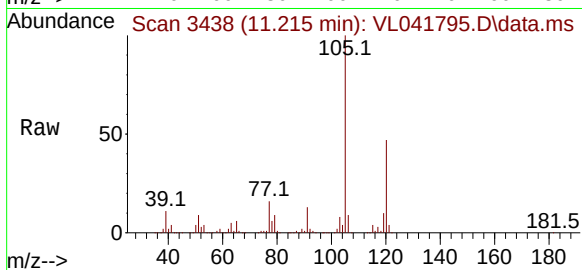
VL1218ABS01

Tgt Ion:105 Resp: 240648

Ion Ratio Lower Upper

105 100

120 46.8 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 10.679 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Tgt Ion:105 Resp: 260378

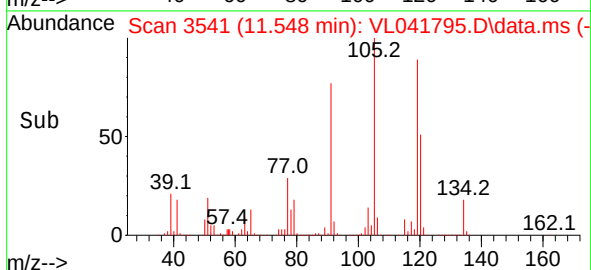
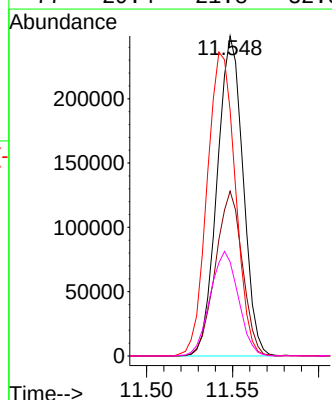
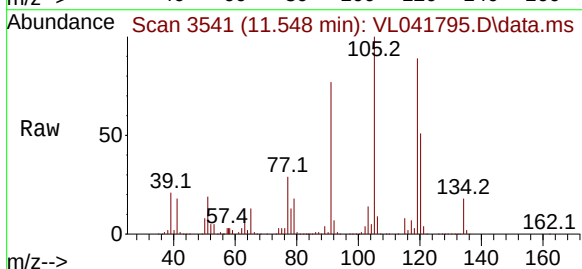
Ion Ratio Lower Upper

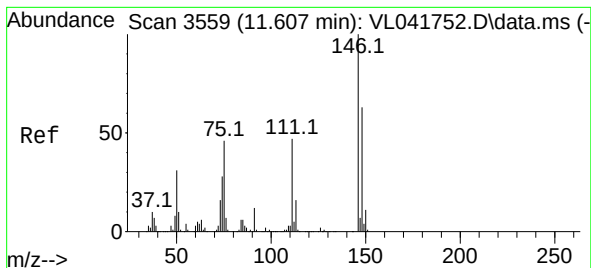
105 100

120 51.5 39.0 58.4

91 76.7 58.1 87.1

77 29.4 21.8 32.8





#75

1,3-Dichlorobenzene

Concen: 9.809 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

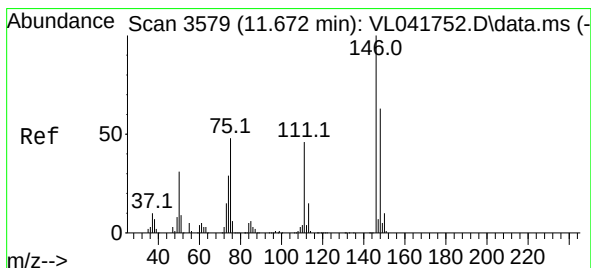
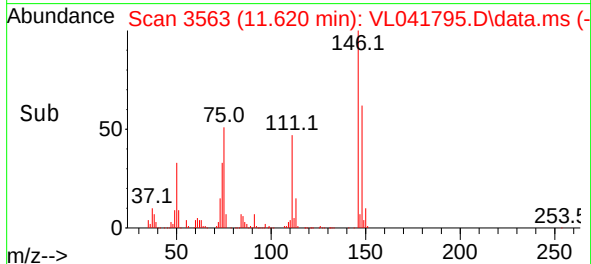
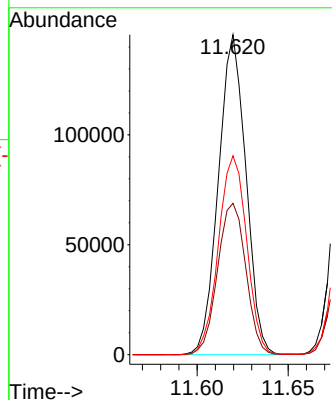
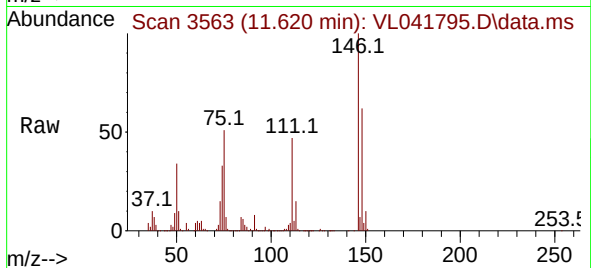
Tgt Ion:146 Resp: 152493

Ion Ratio Lower Upper

146 100

111 48.7 23.4 70.3

148 64.1 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 9.926 ppbv

RT: 11.684 min Scan# 3583

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

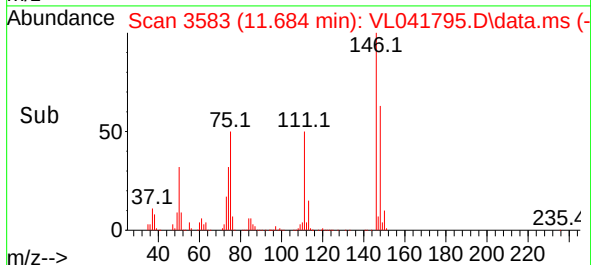
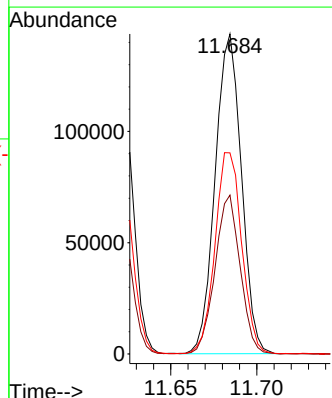
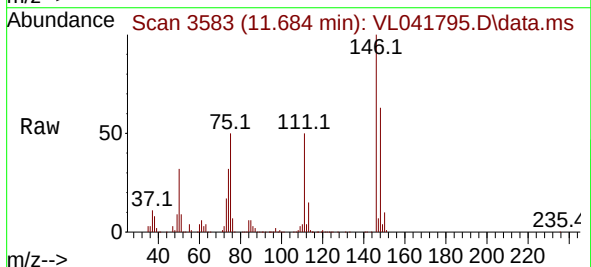
Tgt Ion:146 Resp: 152432

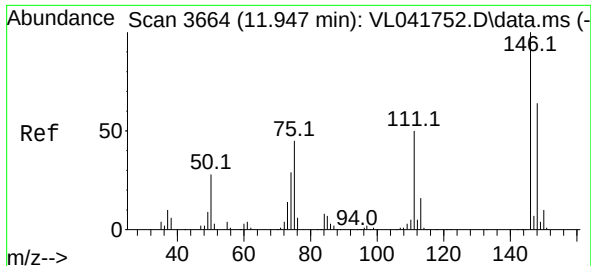
Ion Ratio Lower Upper

146 100

111 47.8 22.7 68.1

148 64.5 31.4 94.0

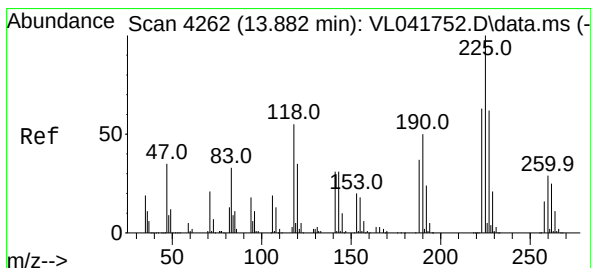
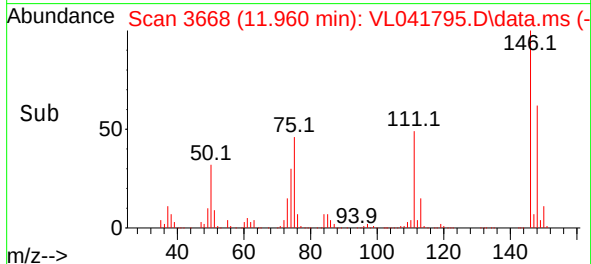
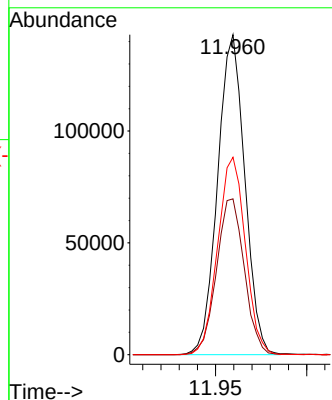
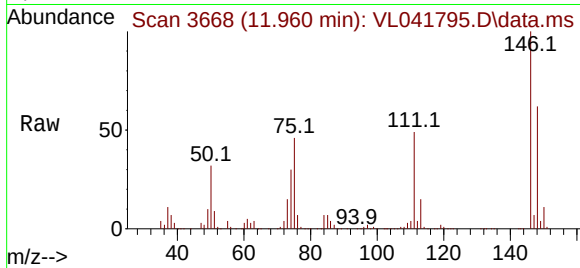




#77
1,2-Dichlorobenzene
Concen: 9.922 ppbv
RT: 11.960 min Scan# 30
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

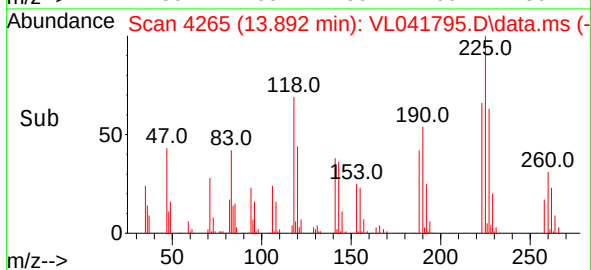
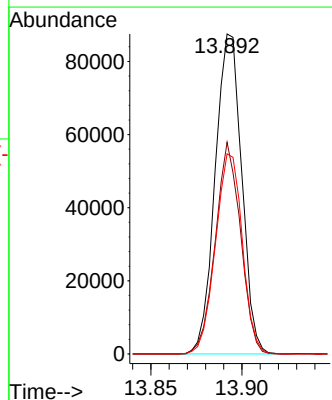
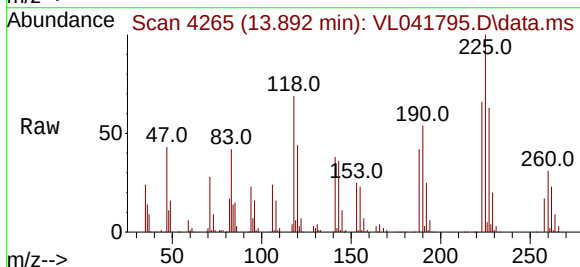
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

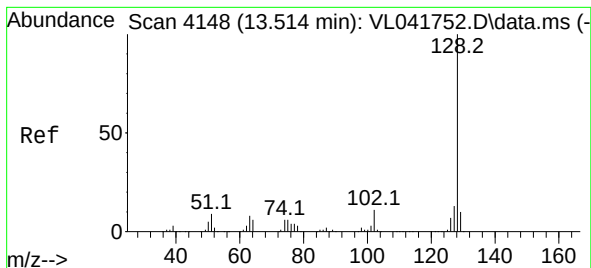
Tgt Ion:146 Resp: 148412
Ion Ratio Lower Upper
146 100
111 50.0 24.8 74.3
148 62.8 31.8 95.4



#78
Hexachloro-1,3-Butadiene
Concen: 7.987 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Tgt Ion:225 Resp: 88582
Ion Ratio Lower Upper
225 100
223 62.9 50.5 75.7
227 63.3 50.3 75.5





#79

Naphthalene

Concen: 11.154 ppbv

RT: 13.523 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

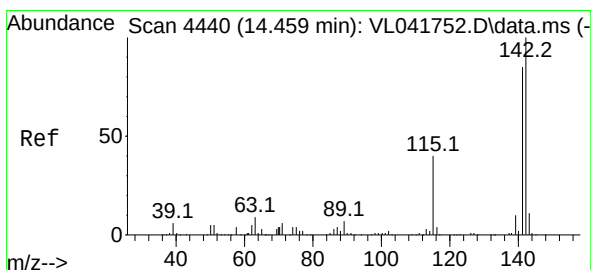
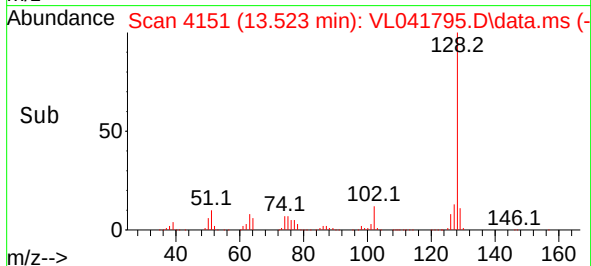
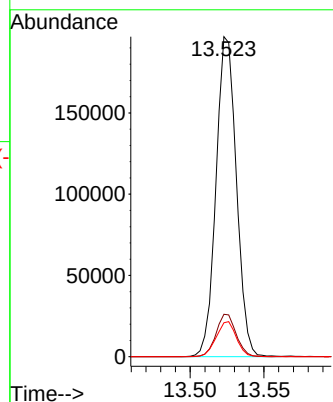
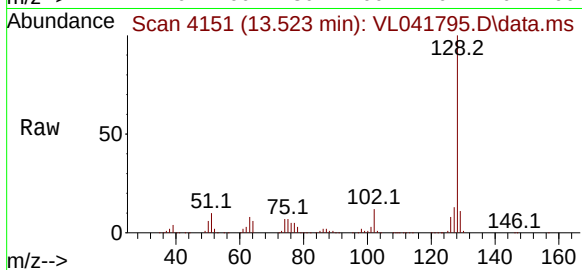
Tgt Ion:128 Resp: 189506

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

129 10.6 8.2 12.4



#80

Naphthalene,2-methyl-

Concen: 15.634 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

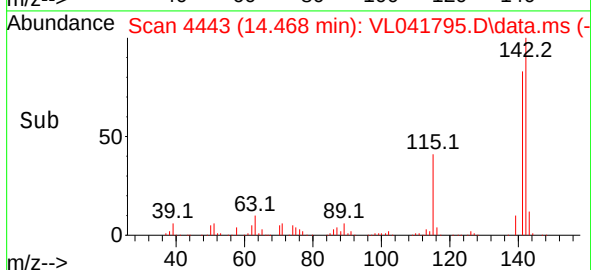
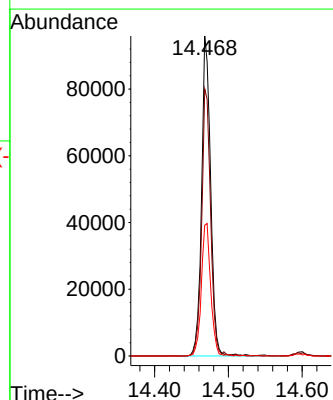
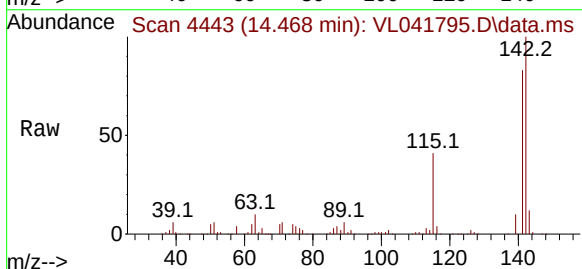
Tgt Ion:142 Resp: 82155

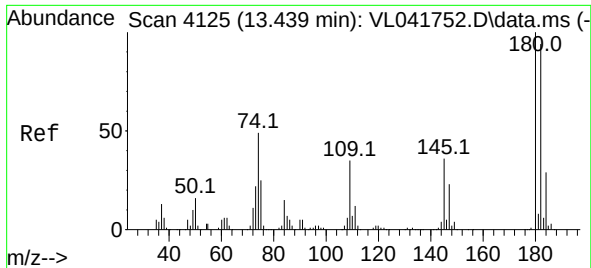
Ion Ratio Lower Upper

142 100

141 82.5 68.4 102.6

115 43.2 32.5 48.7





#81

1,2,4-Trichlorobenzene

Concen: 9.592 ppbv

RT: 13.452 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL041795.D

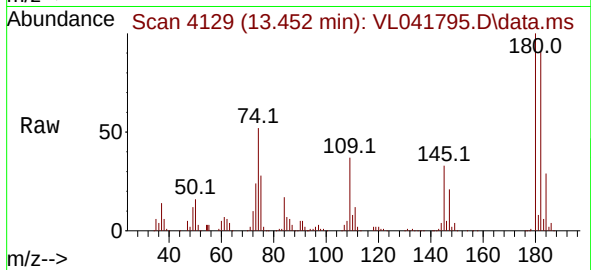
Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01



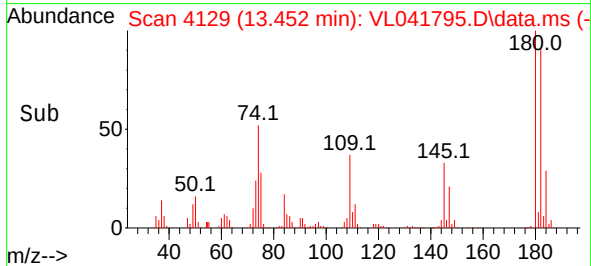
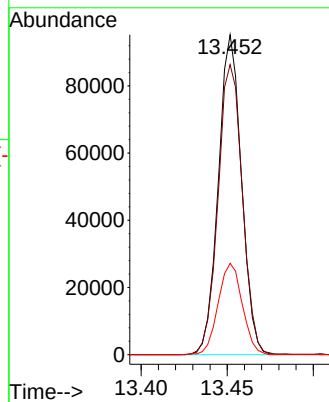
Tgt Ion:180 Resp: 89052

Ion Ratio Lower Upper

180 100

182 95.5 77.0 115.6

184 29.8 23.8 35.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041797.D
 Acq On : 18 Dec 2024 17:10
 Operator : SY/MD
 Sample : P5293-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

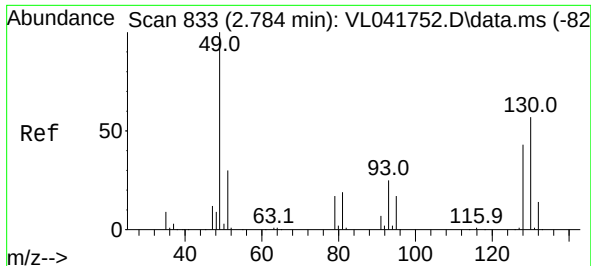
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB9

Quant Time: Dec 19 07:56:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		2.797	49	71328	10.000	ppbv	0.01
33) 1,4-Difluorobenzene		3.975	114	174211	10.000	ppbv	0.02
55) Chlorobenzene-d5		8.898	117	152989	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.390	95	130229	10.215	ppbv	0.02
Spiked Amount		10.000	Range 65 - 135		Recovery	= 102.100%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		1.502	85	5246	0.413	ppbv	94
4) Chloromethane		1.534	50	1923	0.387	ppbv	98
6) Bromomethane		1.670	94	78	0.033	ppbv #	3
9) Propene		1.563	41	7701	1.527	ppbv	88
11) Trichlorofluoromethane		1.884	101	2866	0.213	ppbv	90
12) 1,1,2-Trichlorotrifluo...		2.146	101	492	0.048	ppbv #	14
13) Ethanol		1.725	45	205824	493.023	ppbv	94
15) Acetone		1.842	43	44740	3.224	ppbv #	85
16) 1,3-Butadiene		1.605	39	1122	0.205	ppbv #	69
17) tert-Butyl alcohol		2.046	59	469	0.034	ppbv #	71
19) Isopropyl Alcohol		1.894	45	5535	0.665	ppbv #	1
20) Methylene Chloride		2.068	84	50434	12.744	ppbv	99
21) Allyl Chloride		2.068	41	1923	0.255	ppbv #	62
23) Vinyl Acetate		2.479	43	6118	0.949	ppbv #	38
25) Ethyl Acetate		2.835	43	16724	0.648	ppbv #	84
26) Hexane		2.839	57	20909	2.134	ppbv #	31
29) Chloroform		2.858	83	44135	2.956	ppbv	99
30) Cyclohexane		3.874	84	328	0.039	ppbv #	1
34) 2-Butanone		2.570	43	2830	0.202	ppbv	99
35) Carbon Tetrachloride		3.781	117	389	0.031	ppbv #	14
36) Benzene		3.670	78	3686	0.205	ppbv	97
39) 1,2-Dichloropropane		3.971	63	50466	7.743	ppbv #	17
44) 2,2,4-Trimethylpentane		4.661	57	2181	0.071	ppbv #	25
53) Toluene		6.962	91	1859	0.091	ppbv #	21
60) o-Xylene		9.979	91	1023	0.046	ppbv	99
74) 1,2,4-Trimethylbenzene		11.545	105	1361	0.058	ppbv #	62

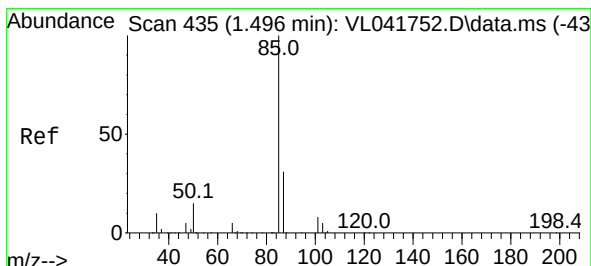
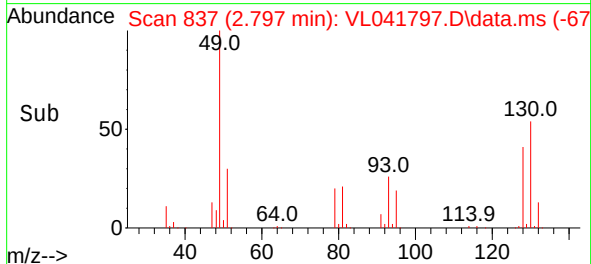
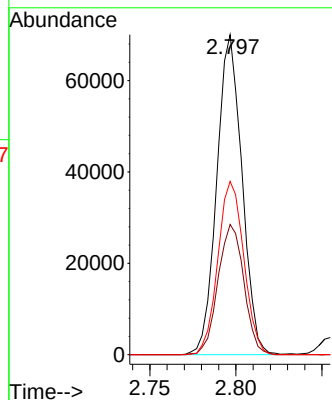
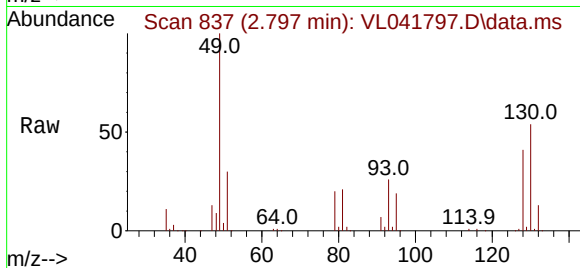
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 841
Delta R.T. 0.013 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

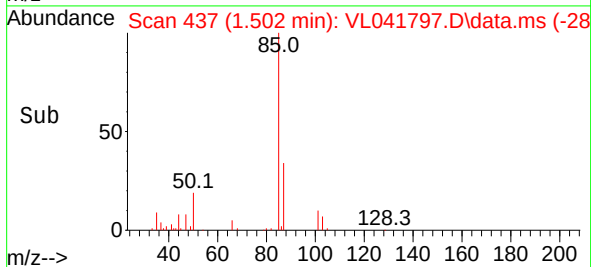
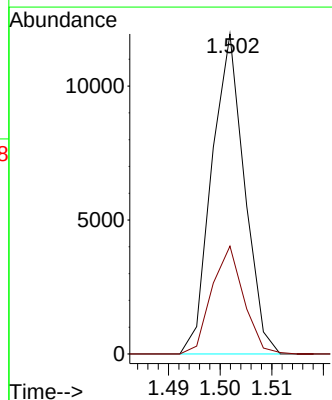
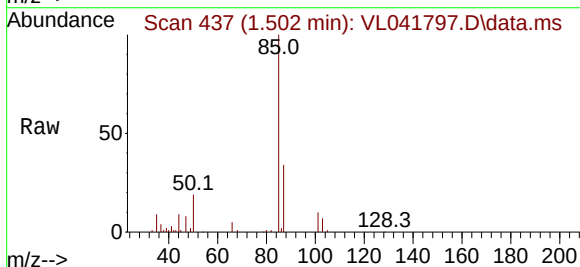
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

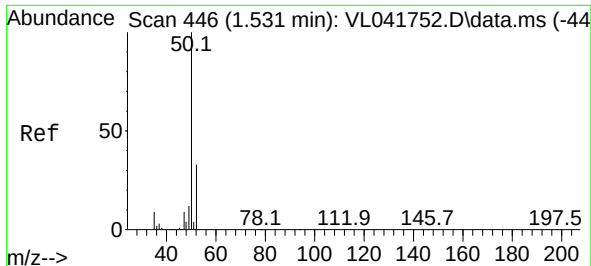
Tgt Ion: 49 Resp: 71328
Ion Ratio Lower Upper
49 100
128 41.6 21.6 64.6
130 55.8 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.413 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 85 Resp: 5246
Ion Ratio Lower Upper
85 100
87 33.7 24.5 36.7

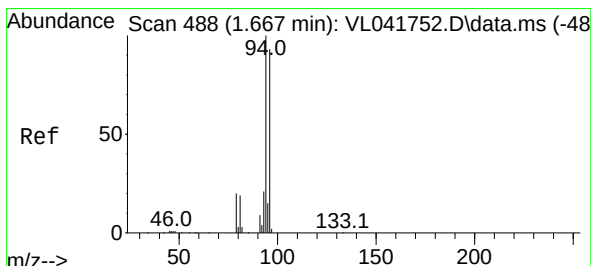
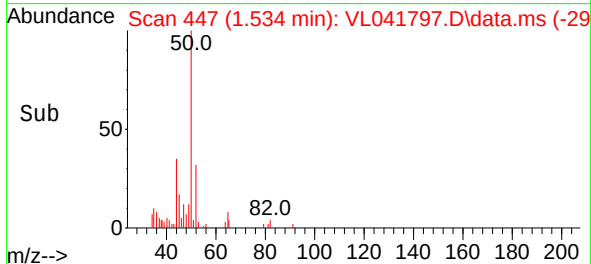
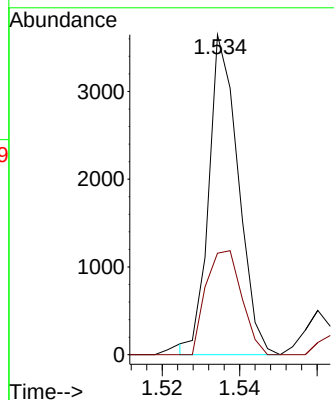
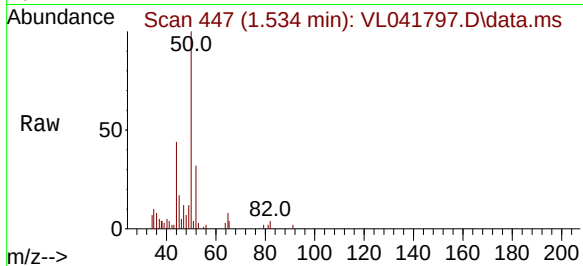




#4
Chloromethane
Concen: 0.387 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

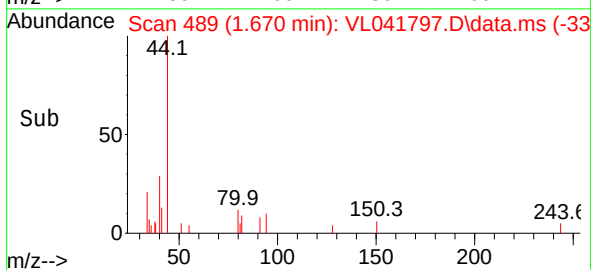
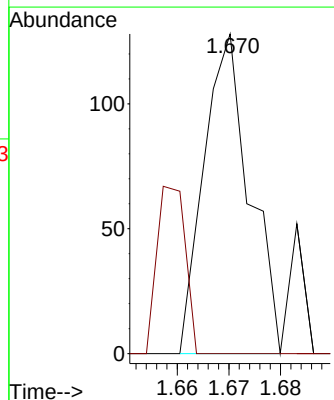
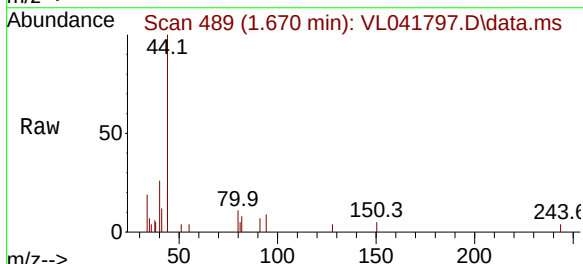
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

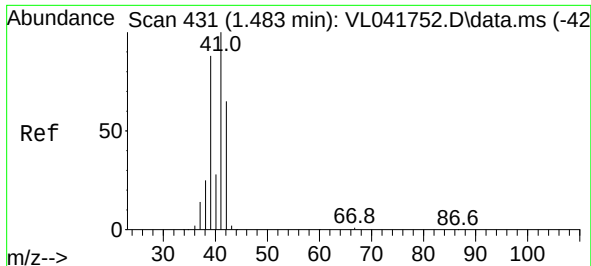
Tgt Ion: 50 Resp: 1923
Ion Ratio Lower Upper
50 100
52 31.7 26.2 39.2



#6
Bromomethane
Concen: 0.033 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 94 Resp: 78
Ion Ratio Lower Upper
94 100
96 0.0 74.7 112.1#





#9

Propene

Concen: 1.527 ppbv

RT: 1.563 min Scan# 41

Delta R.T. 0.080 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

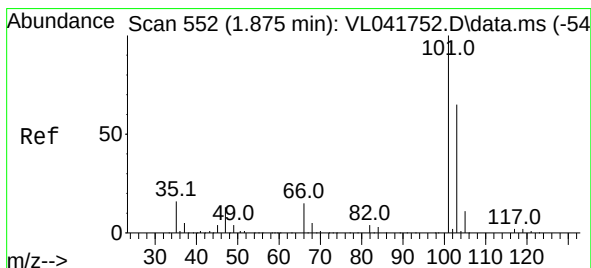
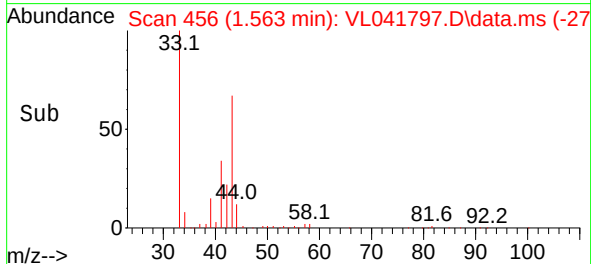
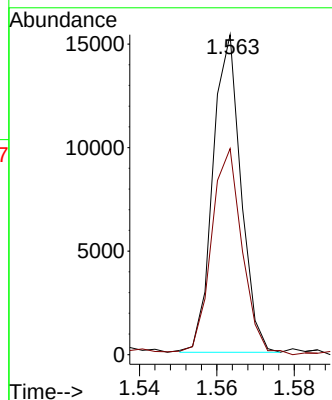
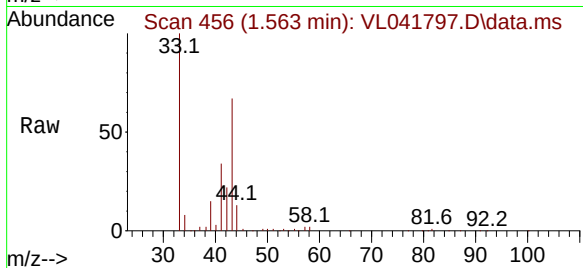
C0AB9

Tgt Ion: 41 Resp: 7701

Ion Ratio Lower Upper

41 100

42 75.3 52.4 78.6



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.009 min

Lab File: VL041797.D

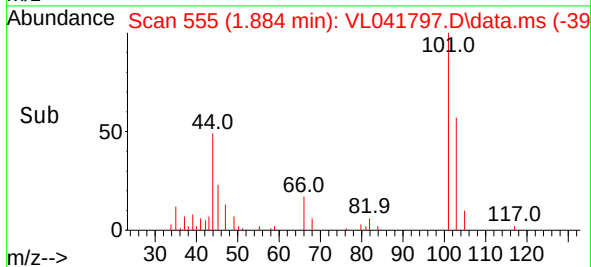
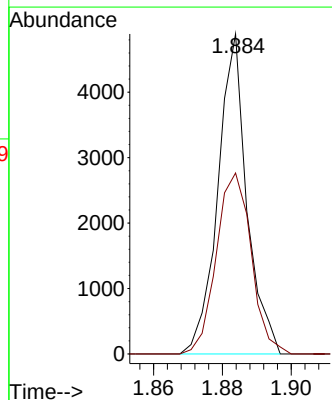
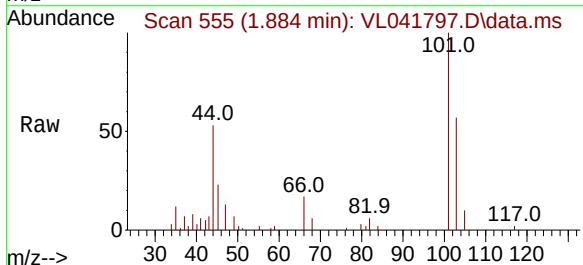
Acq: 18 Dec 2024 17:10

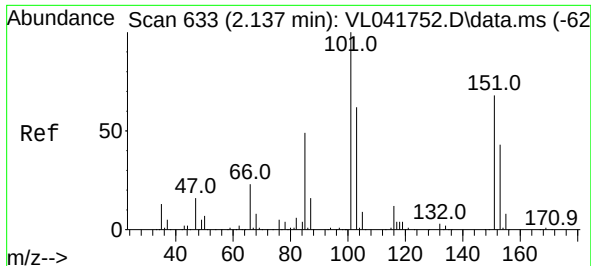
Tgt Ion:101 Resp: 2866

Ion Ratio Lower Upper

101 100

103 56.6 51.8 77.8

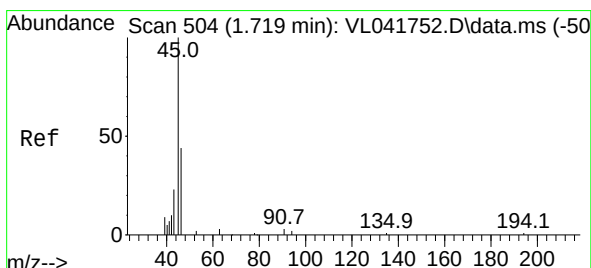
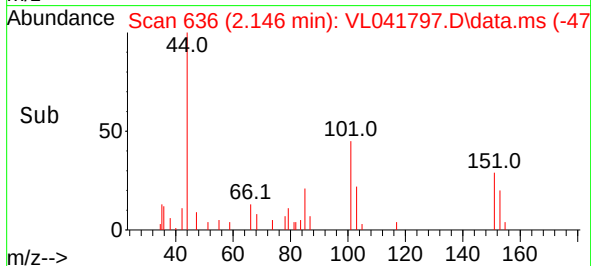
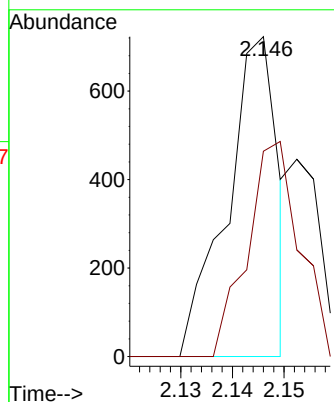
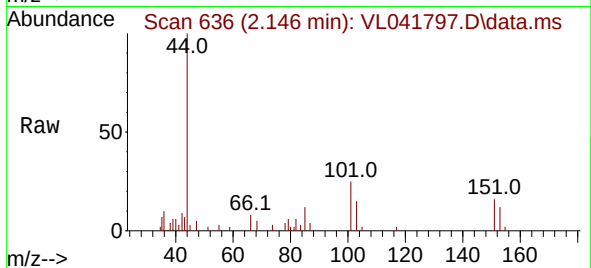




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

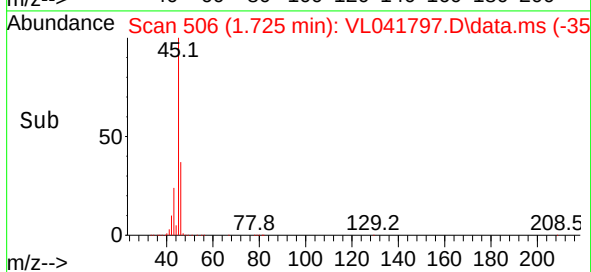
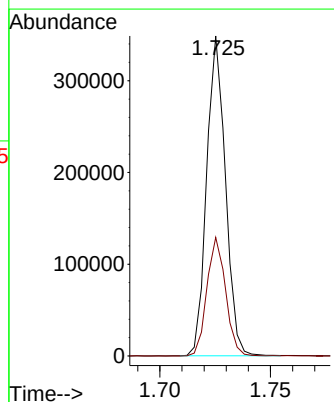
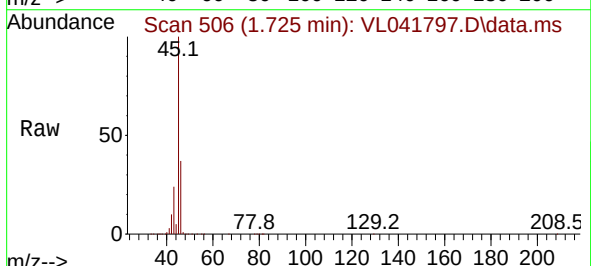
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

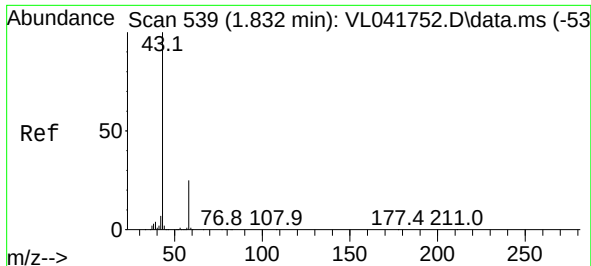
Tgt Ion:101 Resp: 492
Ion Ratio Lower Upper
101 100
151 0.0 56.8 85.2#



#13
Ethanol
Concen: 493.023 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 45 Resp: 205824
Ion Ratio Lower Upper
45 100
46 37.1 16.4 65.8

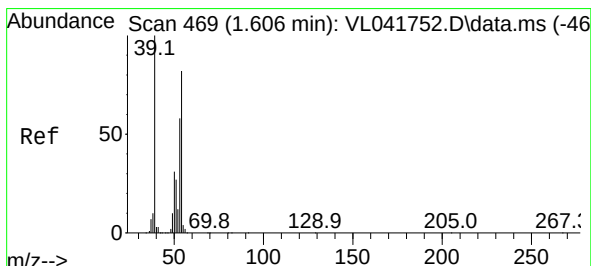
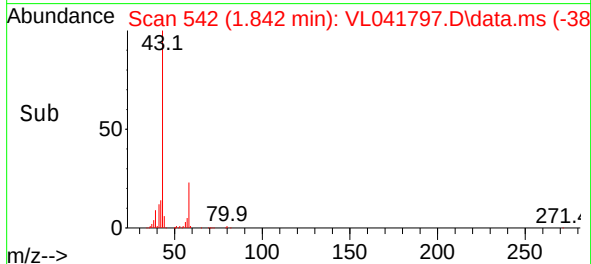
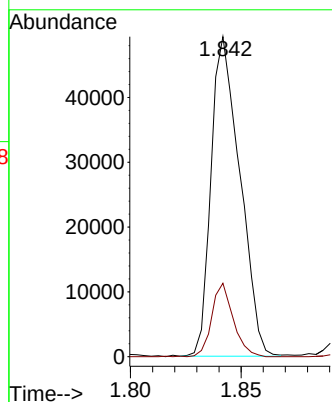
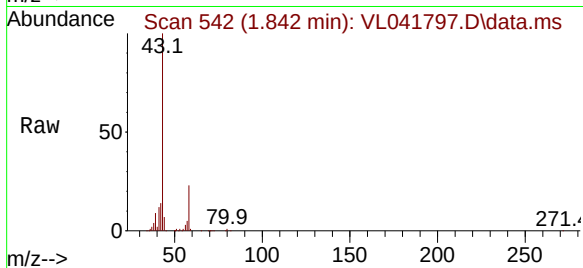




#15
Acetone
Concen: 3.224 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

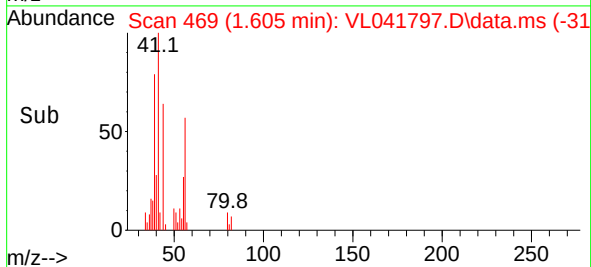
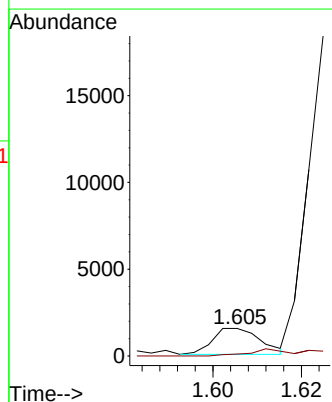
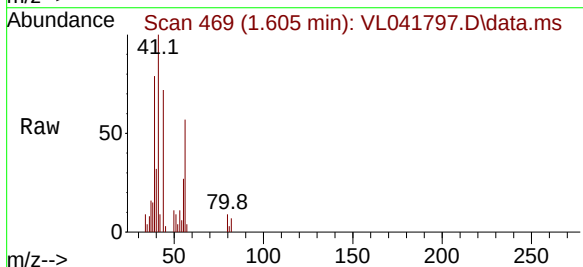
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

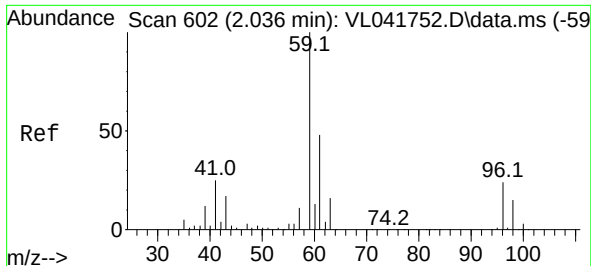
Tgt Ion: 43 Resp: 44740
Ion Ratio Lower Upper
43 100
58 17.2 19.7 29.5#



#16
1,3-Butadiene
Concen: 0.205 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 39 Resp: 1122
Ion Ratio Lower Upper
39 100
54 46.9 58.4 87.6#

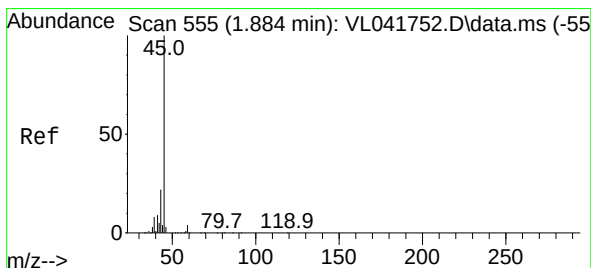
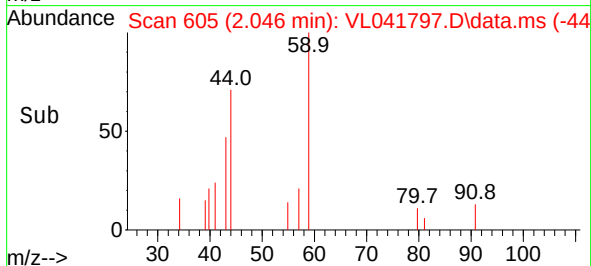
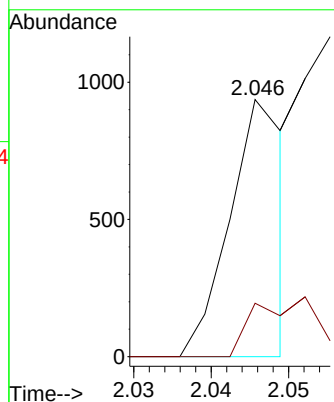
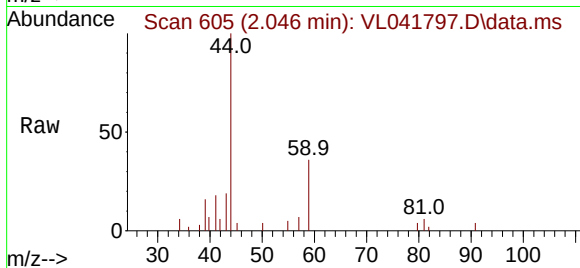




#17
tert-Butyl alcohol
Concen: 0.034 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

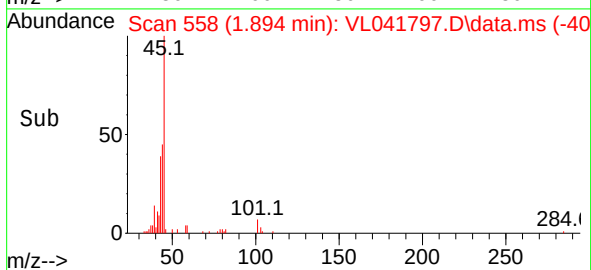
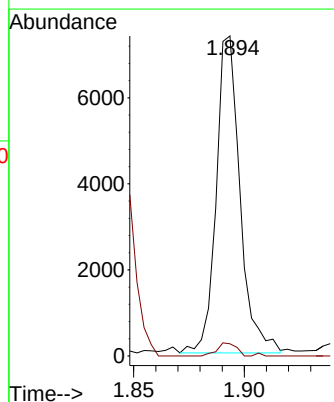
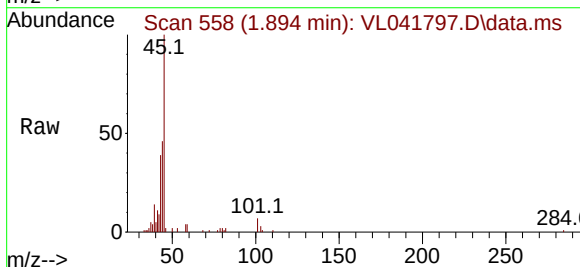
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

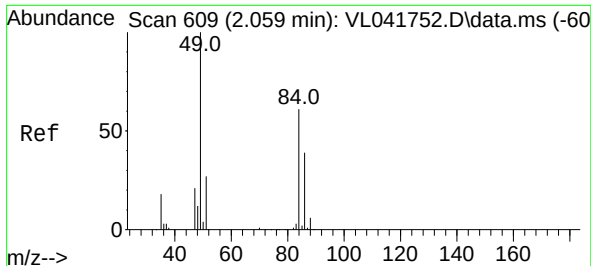
Tgt Ion: 59 Resp: 469
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 0.665 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 45 Resp: 5535
Ion Ratio Lower Upper
45 100
58 138.8 33.3 49.9#





#20

Methylene Chloride

Concen: 12.744 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

Tgt Ion: 84 Resp: 50434

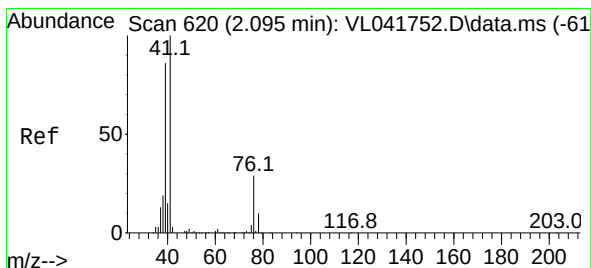
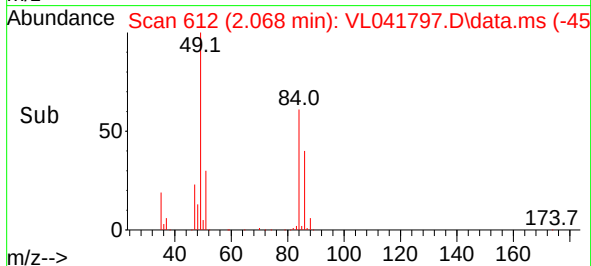
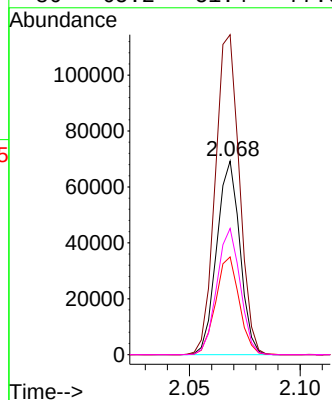
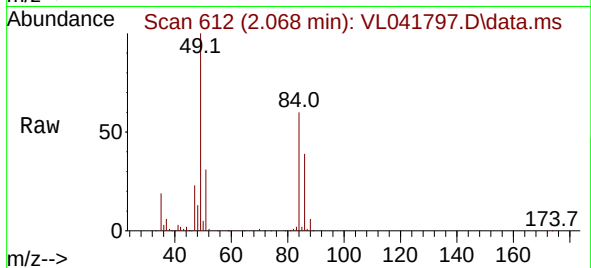
Ion Ratio Lower Upper

84 100

49 165.3 132.6 198.8

51 50.5 37.6 56.4

86 65.2 51.4 77.0



#21

Allyl Chloride

Concen: 0.255 ppbv

RT: 2.068 min Scan# 612

Delta R.T. -0.026 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

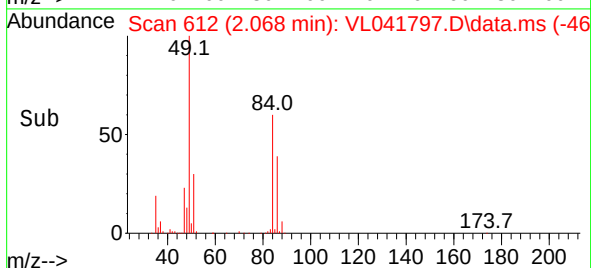
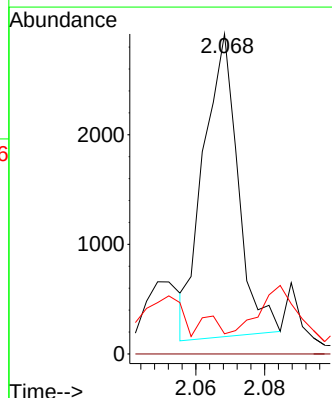
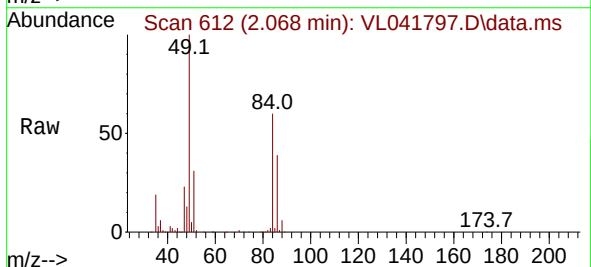
Tgt Ion: 41 Resp: 1923

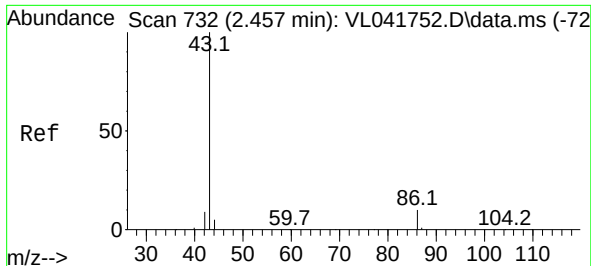
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 56.0 69.2 103.8#

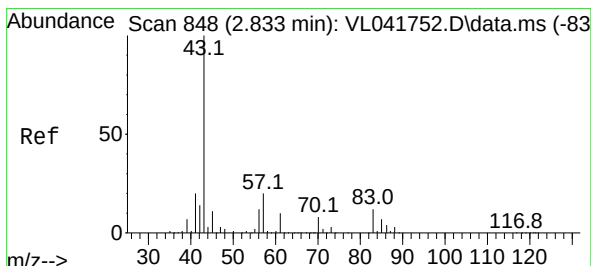
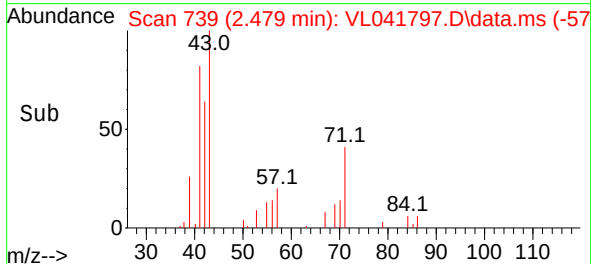
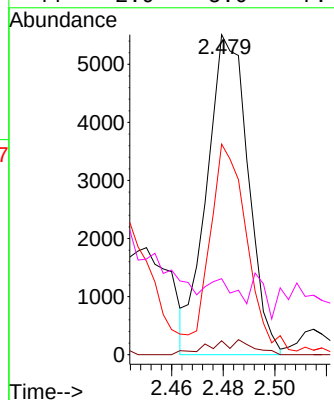
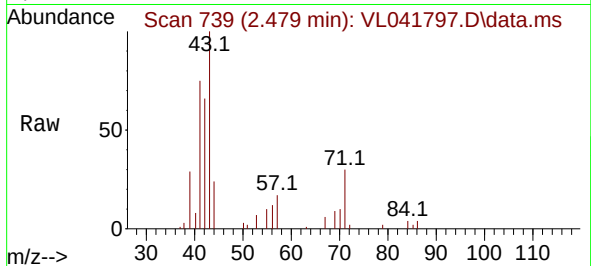




#23
 Vinyl Acetate
 Concen: 0.949 ppbv
 RT: 2.479 min Scan# 741
 Delta R.T. 0.022 min
 Lab File: VL041797.D
 Acq: 18 Dec 2024 17:10

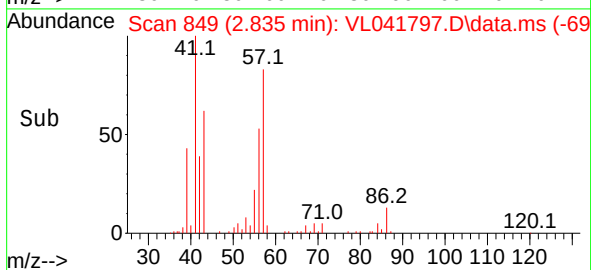
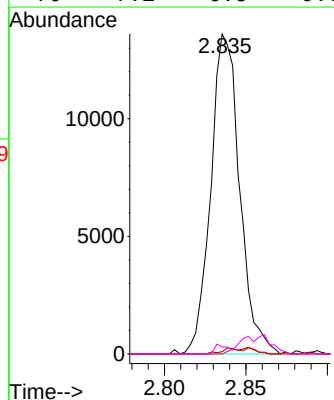
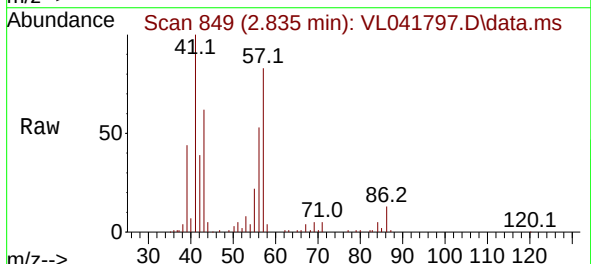
Instrument :
 MSVOA_1
 ClientSampleId :
 C0AB9

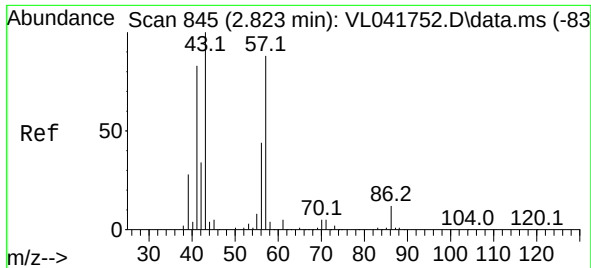
Tgt Ion:	43	Resp:	6118
Ion	Ratio	Lower	Upper
43	100		
86	4.4	6.6	10.0#
42	60.4	8.2	12.2#
44	2.9	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 0.648 ppbv
 RT: 2.835 min Scan# 849
 Delta R.T. 0.003 min
 Lab File: VL041797.D
 Acq: 18 Dec 2024 17:10

Tgt Ion:	43	Resp:	16724
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.1	12.1#
61	1.4	7.0	10.6#
70	7.1	6.5	9.7

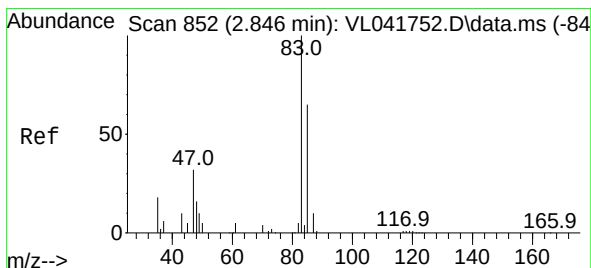
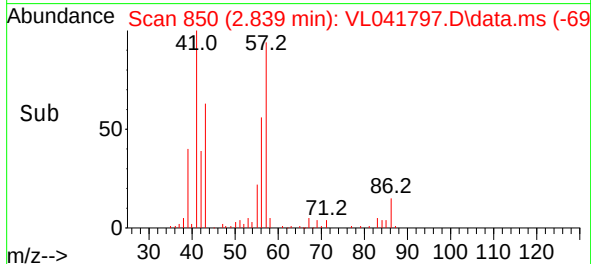
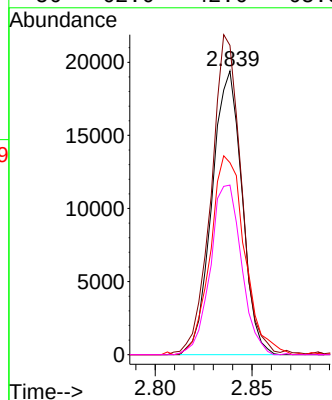
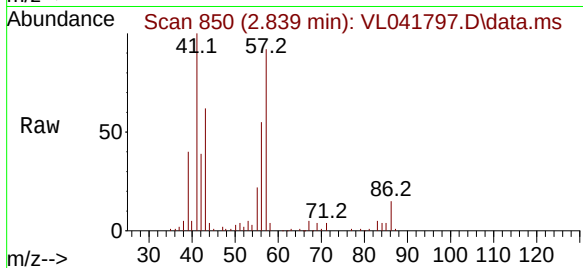




#26
Hexane
Concen: 2.134 ppbv
RT: 2.839 min Scan# 845
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

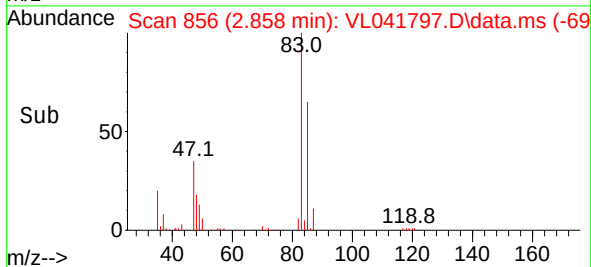
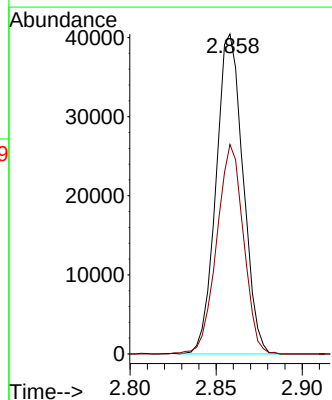
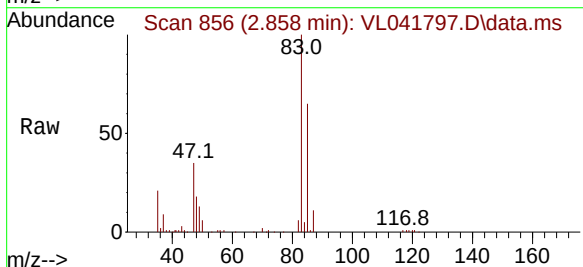
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

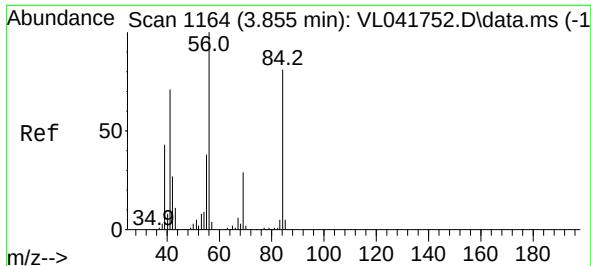
Tgt Ion: 57	Resp: 20909
Ion Ratio	Lower Upper
57 100	
41 113.7	79.6 119.4
43 80.4	211.0 316.6#
56 62.0	42.6 63.8



#29
Chloroform
Concen: 2.956 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 83	Resp: 44135
Ion Ratio	Lower Upper
83 100	
85 65.5	51.8 77.6





#30

Cyclohexane

Concen: 0.039 ppbv

RT: 3.874 min Scan# 1164

Delta R.T. 0.019 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

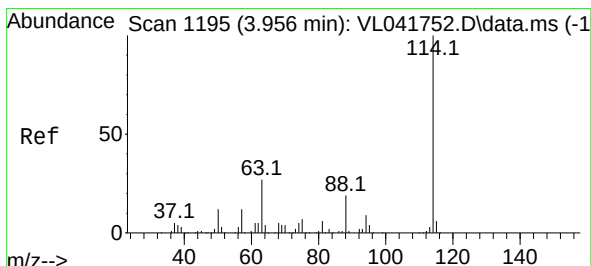
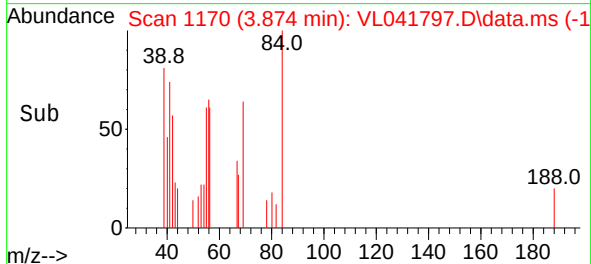
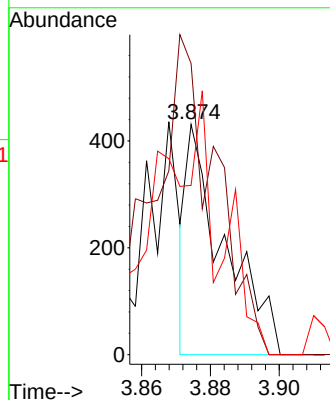
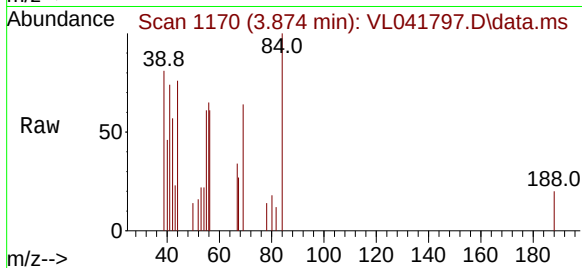
Tgt Ion: 84 Resp: 328

Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 217.1 74.0 111.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.019 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

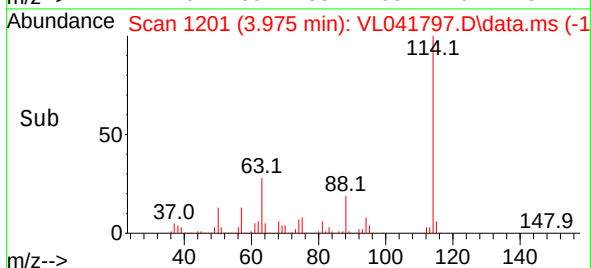
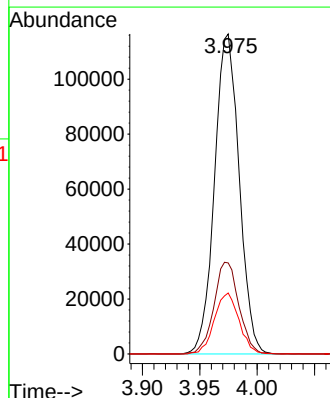
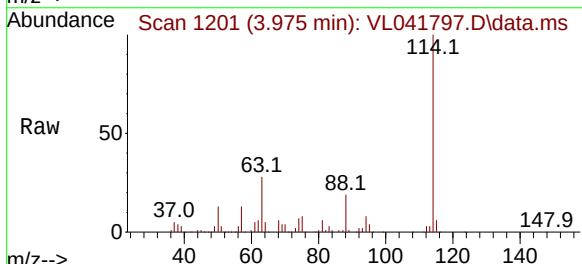
Tgt Ion: 114 Resp: 174211

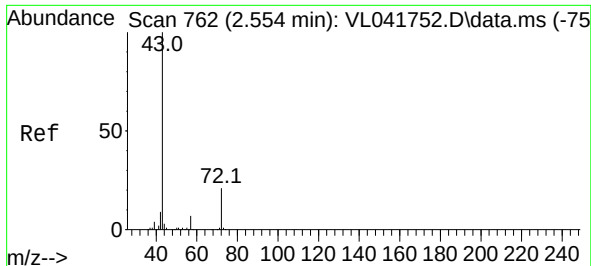
Ion Ratio Lower Upper

114 100

63 29.1 21.8 32.8

88 19.1 14.8 22.2

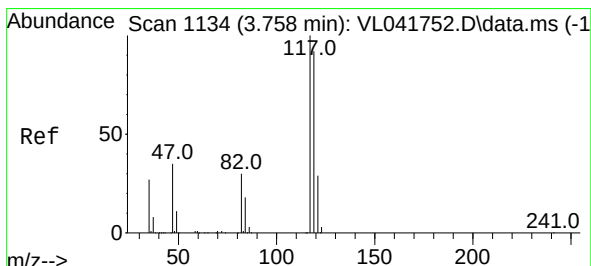
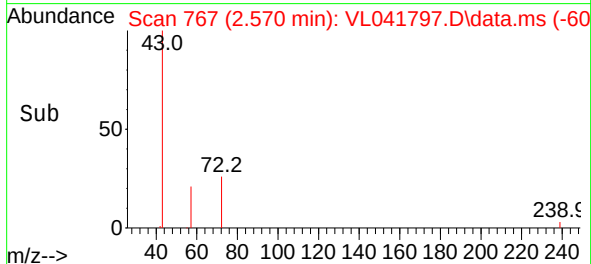
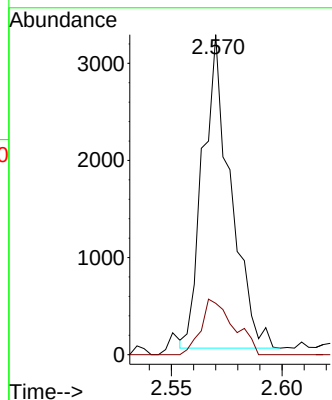
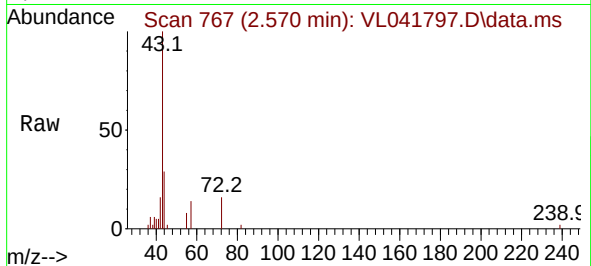




#34
2-Butanone
Concen: 0.202 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

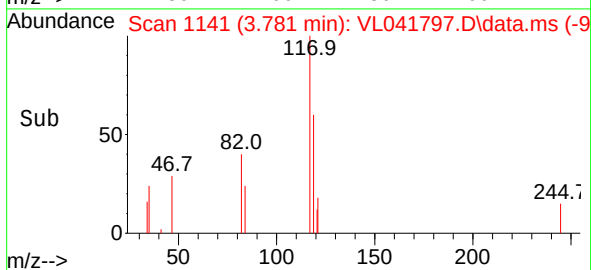
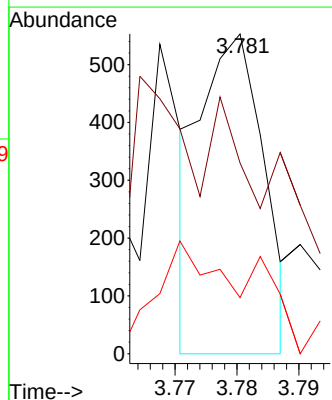
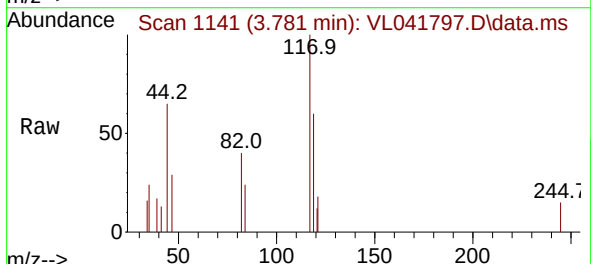
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

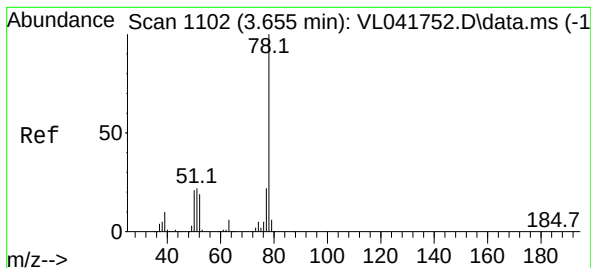
Tgt Ion: 43 Resp: 2830
Ion Ratio Lower Upper
43 100
72 20.6 16.8 25.2



#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 3.781 min Scan# 1141
Delta R.T. 0.022 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 117 Resp: 389
Ion Ratio Lower Upper
117 100
119 0.0 73.7 110.5#
121 0.0 23.0 34.4#





#36

Benzene

Concen: 0.205 ppbv

RT: 3.670 min Scan# 1107

Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

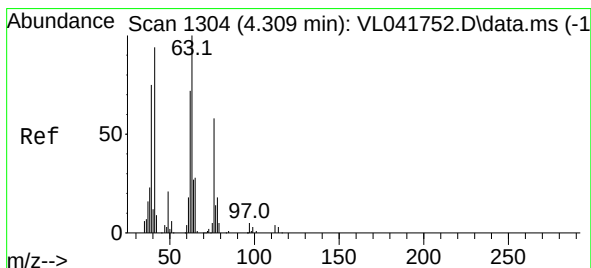
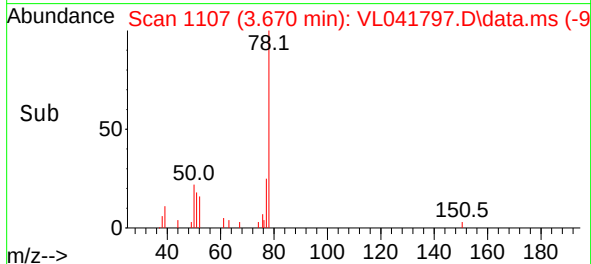
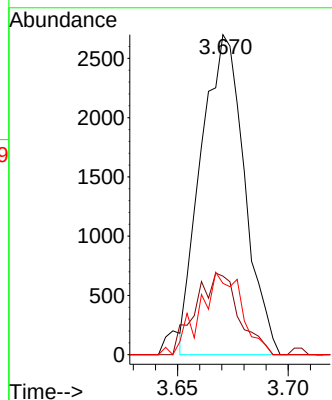
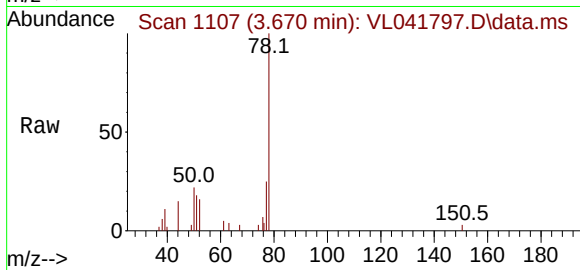
Tgt Ion: 78 Resp: 3686

Ion Ratio Lower Upper

78 100

77 24.6 17.8 26.6

50 22.3 17.2 25.8



#39

1,2-Dichloropropane

Concen: 7.743 ppbv

RT: 3.971 min Scan# 1200

Delta R.T. -0.337 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

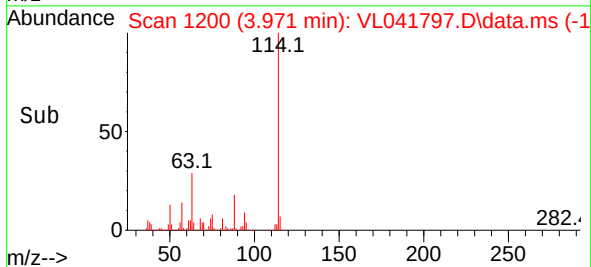
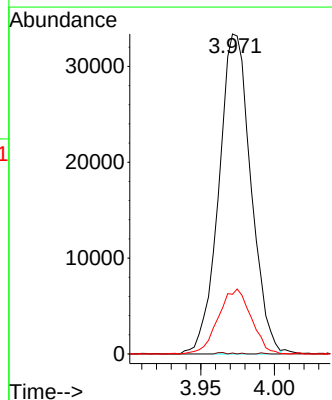
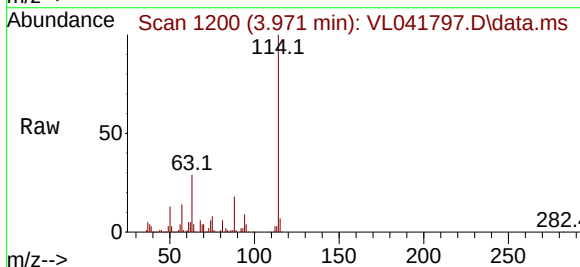
Tgt Ion: 63 Resp: 50466

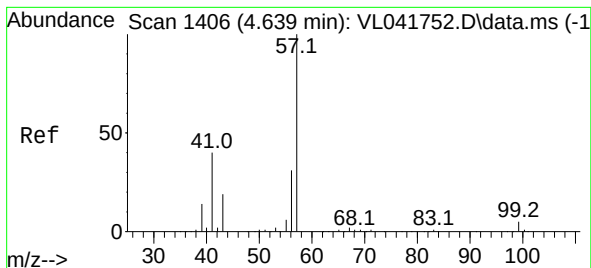
Ion Ratio Lower Upper

63 100

41 0.3 75.3 112.9#

62 18.7 57.3 85.9#





#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

RT: 4.661 min Scan# 1406

Delta R.T. 0.022 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_1

ClientSampleId :

C0AB9

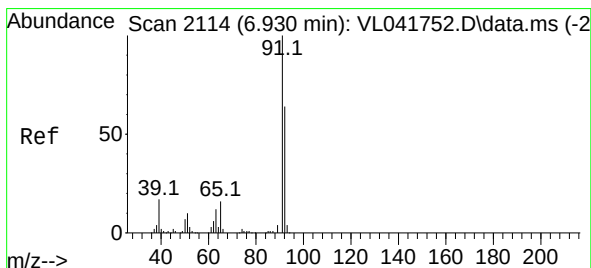
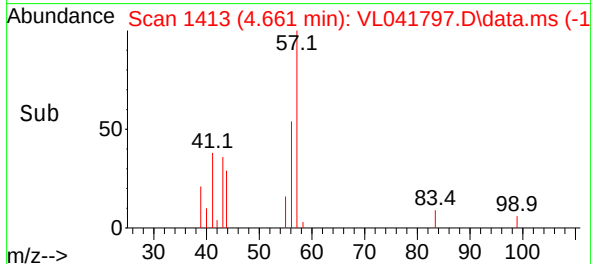
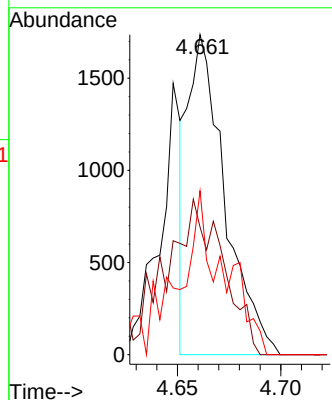
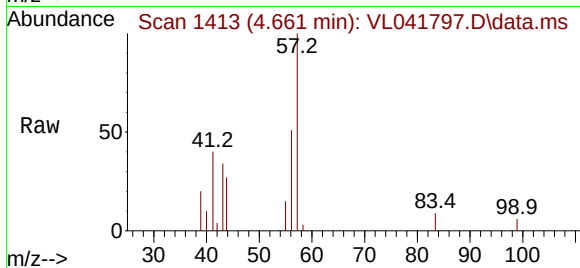
Tgt Ion: 57 Resp: 2181

Ion Ratio Lower Upper

57 100

41 86.1 30.7 46.1#

56 71.0 25.4 38.0#



#53

Toluene

Concen: 0.091 ppbv

RT: 6.962 min Scan# 2124

Delta R.T. 0.032 min

Lab File: VL041797.D

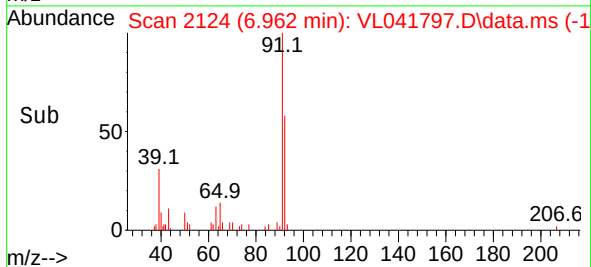
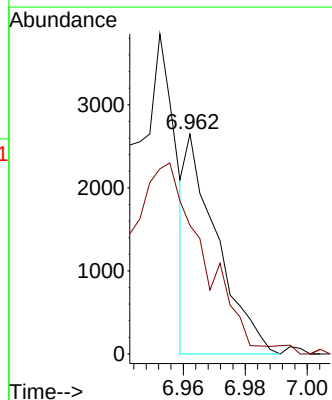
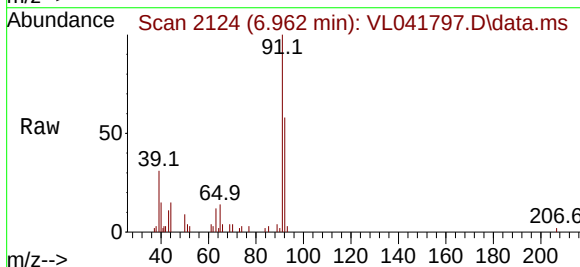
Acq: 18 Dec 2024 17:10

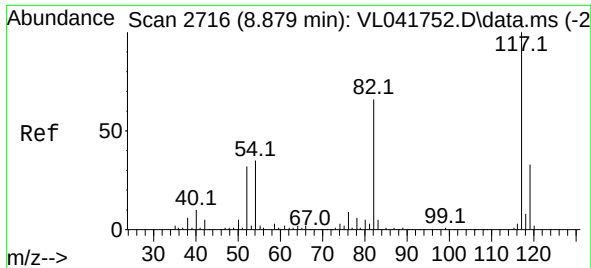
Tgt Ion: 91 Resp: 1859

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

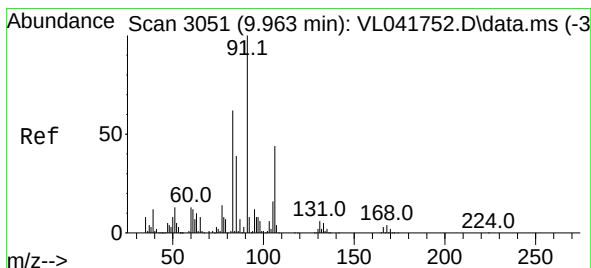
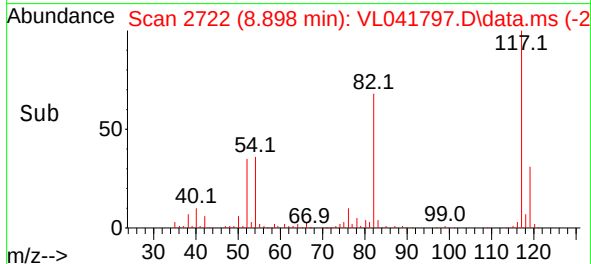
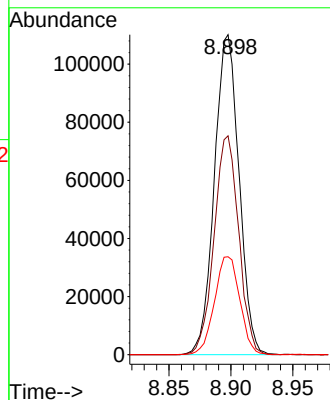
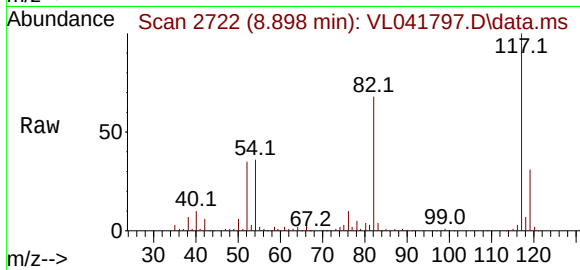
Tgt Ion:117 Resp: 152989

Ion Ratio Lower Upper

117 100

82 68.3 53.8 80.8

119 31.4 26.7 40.1



#60

o-Xylene

Concen: 0.046 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.016 min

Lab File: VL041797.D

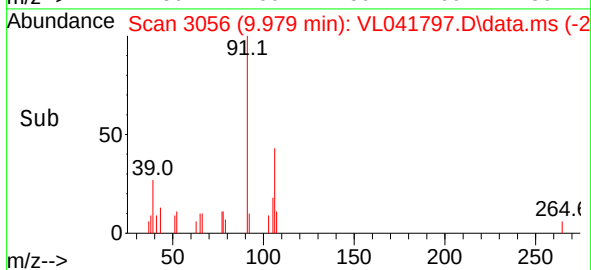
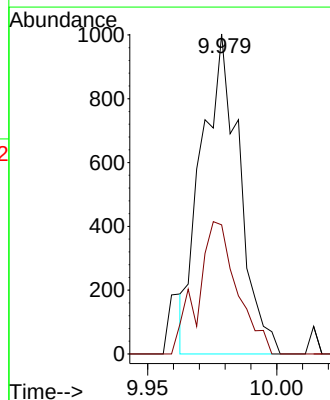
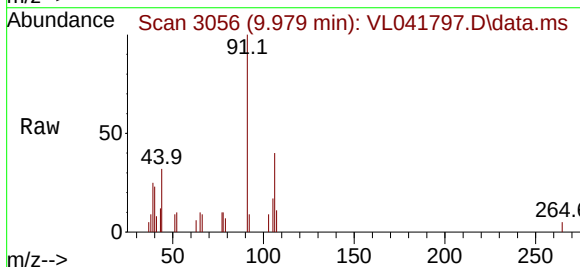
Acq: 18 Dec 2024 17:10

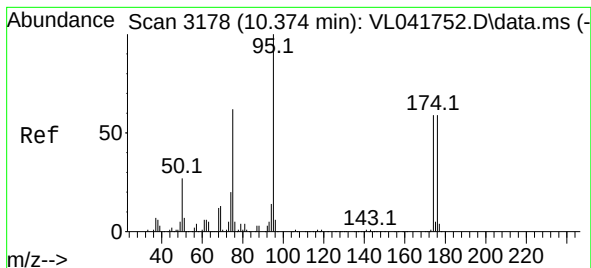
Tgt Ion: 91 Resp: 1023

Ion Ratio Lower Upper

91 100

106 42.8 21.1 63.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.215 ppbv

RT: 10.390 min Scan# 3178

Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_1

ClientSampleId :

C0AB9

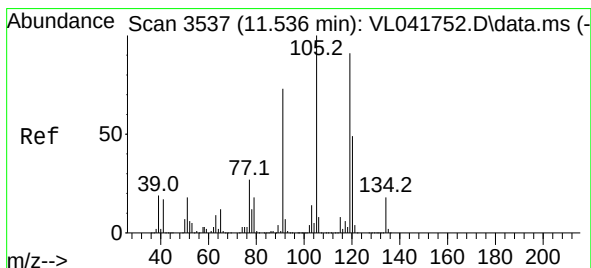
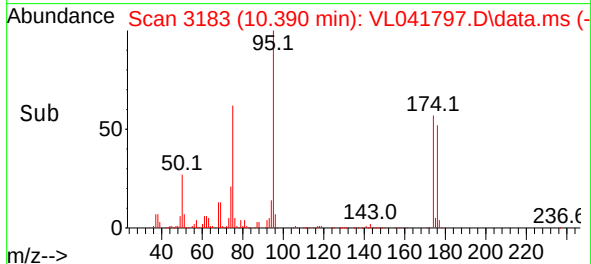
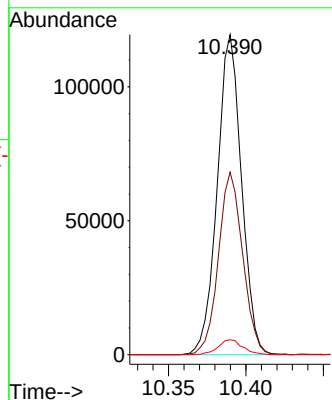
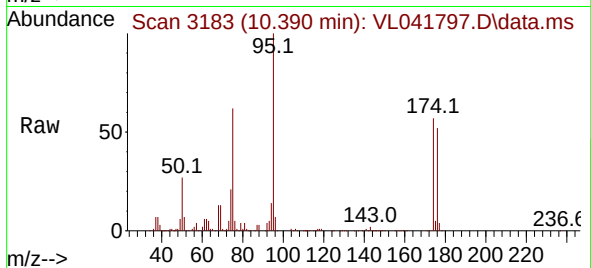
Tgt Ion: 95 Resp: 130229

Ion Ratio Lower Upper

95 100

174 57.1 47.6 71.4

175 4.7 3.7 5.5



#74

1,2,4-Trimethylbenzene

Concen: 0.058 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Tgt Ion:105 Resp: 1361

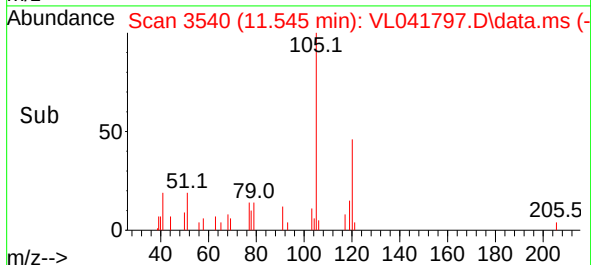
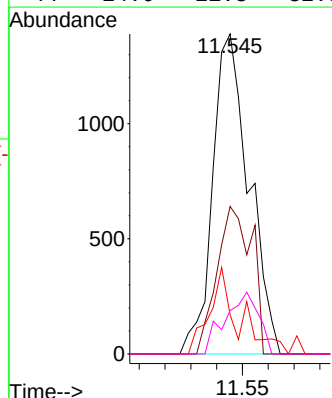
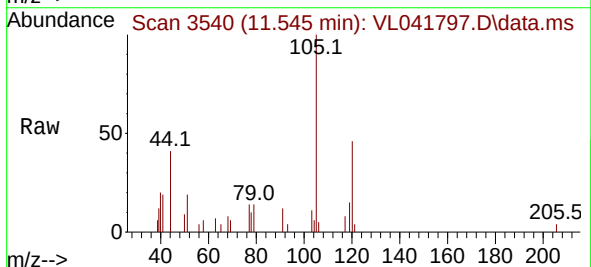
Ion Ratio Lower Upper

105 100

120 46.1 39.0 58.4

91 12.2 58.1 87.1#

77 24.0 21.8 32.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041799.D
 Acq On : 18 Dec 2024 18:17
 Operator : SY/MD
 Sample : P5293-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC0

Quant Time: Dec 19 07:57:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

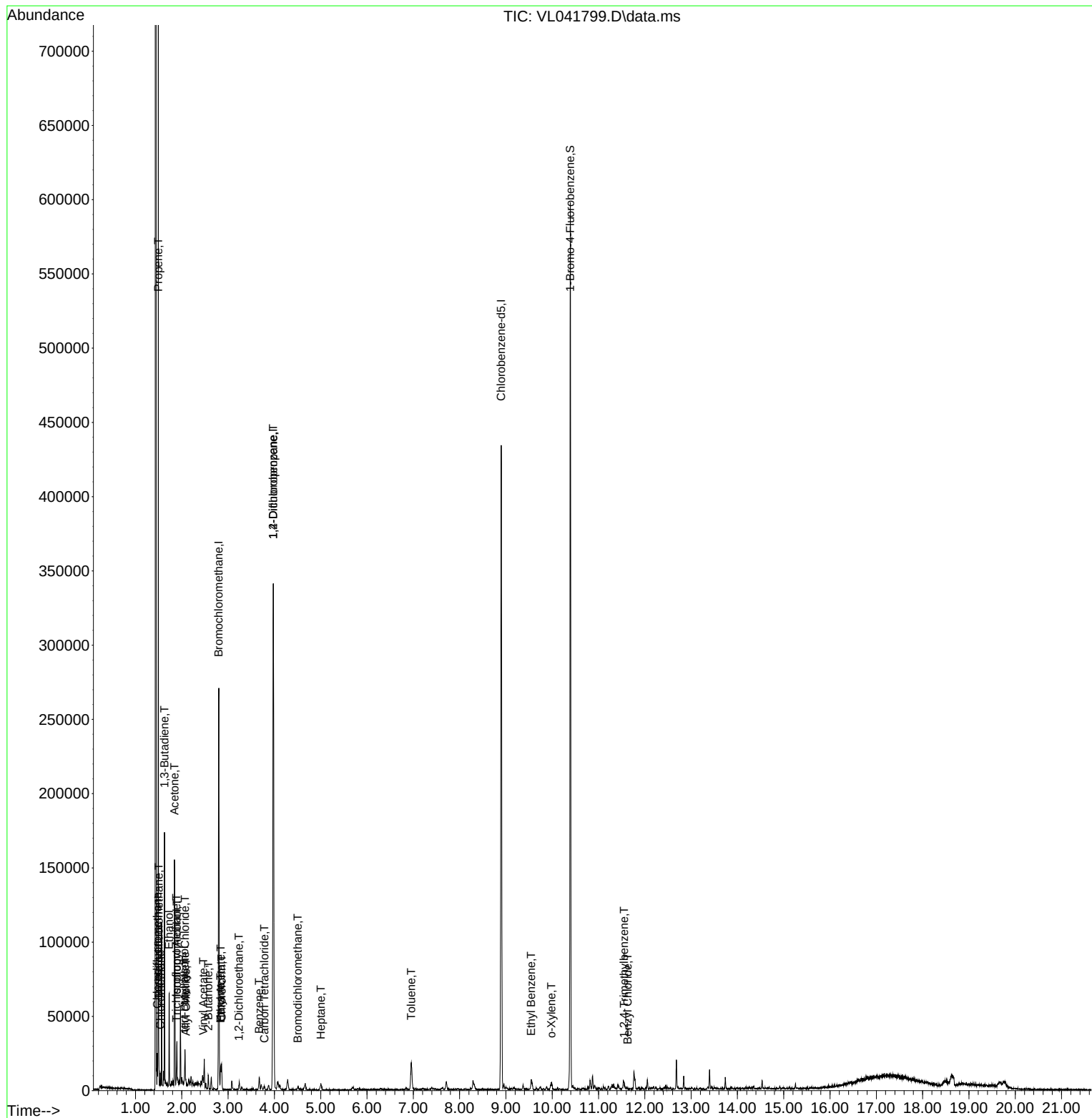
Internal Standards						
1) Bromochloromethane	2.797	49	71492	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	174715	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	153485	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	133546	10.441	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	4954	0.389	ppbv	98
3) Chlorodifluoromethane	1.470	51	8857	0.760	ppbv #	74
4) Chloromethane	1.538	50	2275	0.457	ppbv	93
9) Propene	1.492	41	46494	9.201	ppbv #	64
10) Heptane	5.004	43	399	0.031	ppbv #	29
11) Trichlorofluoromethane	1.884	101	2734	0.202	ppbv	99
13) Ethanol	1.725	45	20973	50.123	ppbv	96
15) Acetone	1.842	43	72299	5.198	ppbv	92
16) 1,3-Butadiene	1.625	39	9529	1.740	ppbv #	19
17) tert-Butyl alcohol	2.055	59	793	0.057	ppbv #	71
19) Isopropyl Alcohol	1.894	45	10160	1.217	ppbv #	1
20) Methylene Chloride	2.068	84	2867	0.723	ppbv	90
21) Allyl Chloride	2.088	41	399	0.053	ppbv #	48
23) Vinyl Acetate	2.463	43	2010	0.311	ppbv #	64
25) Ethyl Acetate	2.842	43	2156	0.083	ppbv #	75
26) Hexane	2.835	57	2395	0.244	ppbv #	59
29) Chloroform	2.861	83	5485	0.367	ppbv	100
34) 2-Butanone	2.570	43	5913	0.421	ppbv	98
35) Carbon Tetrachloride	3.784	117	633	0.051	ppbv #	65
36) Benzene	3.670	78	4287	0.237	ppbv #	87
37) 1,2-Dichloroethane	3.230	62	393	0.035	ppbv #	82
39) 1,2-Dichloropropane	3.975	63	49659	7.597	ppbv #	19
42) Bromodichloromethane	4.502	83	472	0.036	ppbv #	96
53) Toluene	6.952	91	12028	0.587	ppbv	99
58) Ethyl Benzene	9.545	91	3056	0.111	ppbv	97
60) o-Xylene	9.979	91	1372	0.062	ppbv	75
66) Benzyl Chloride	11.629	91	81	0.030	ppbv #	66
74) 1,2,4-Trimethylbenzene	11.552	105	1239	0.053	ppbv #	61

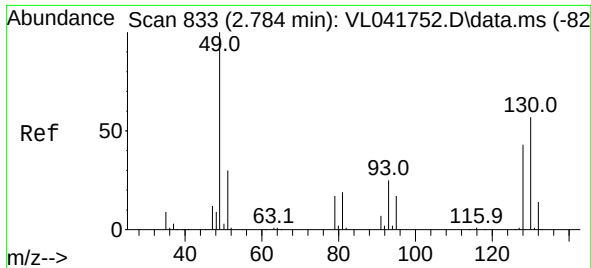
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041799.D
Acq On : 18 Dec 2024 18:17
Operator : SY/MD
Sample : P5293-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0AC0

Quant Time: Dec 19 07:57:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

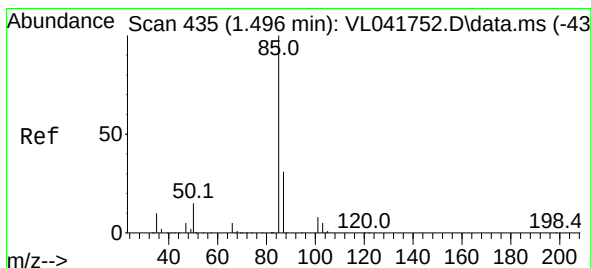
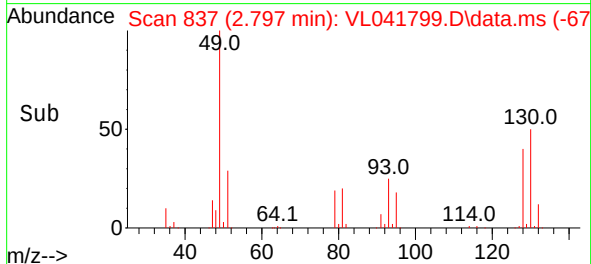
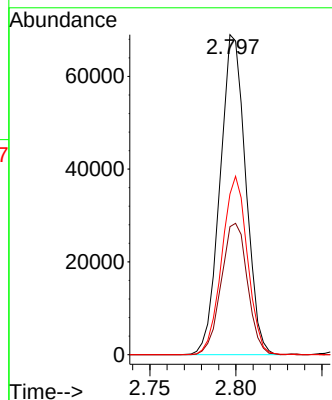
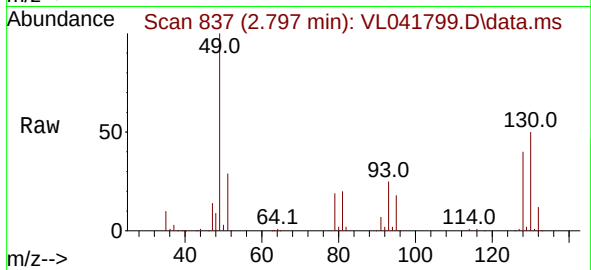




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 841
 Delta R.T. 0.013 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

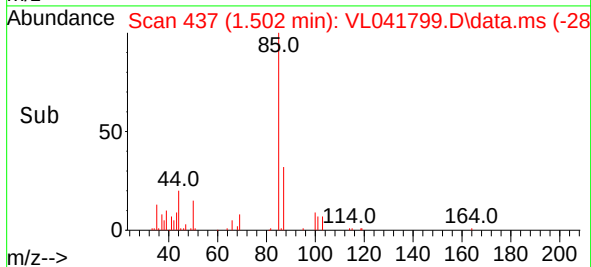
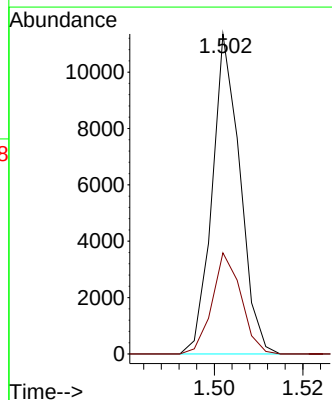
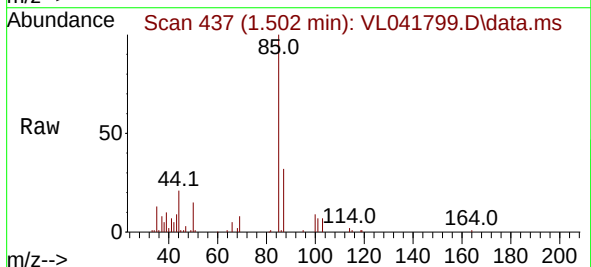
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC0

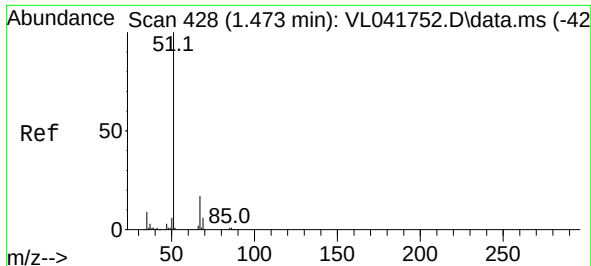
Tgt Ion: 49 Resp: 71492
 Ion Ratio Lower Upper
 49 100
 128 42.1 21.6 64.6
 130 55.4 28.3 85.0



#2
 Dichlorodifluoromethane
 Concen: 0.389 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

Tgt Ion: 85 Resp: 4954
 Ion Ratio Lower Upper
 85 100
 87 31.6 24.5 36.7





#3

Chlorodifluoromethane

Concen: 0.760 ppbv

RT: 1.470 min Scan# 41

Delta R.T. -0.004 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

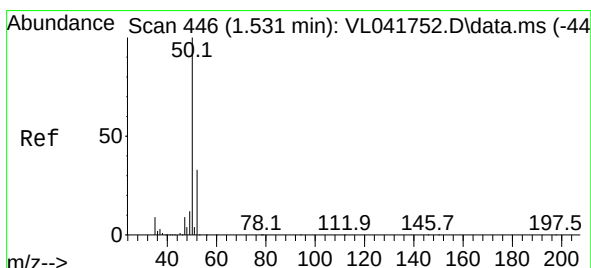
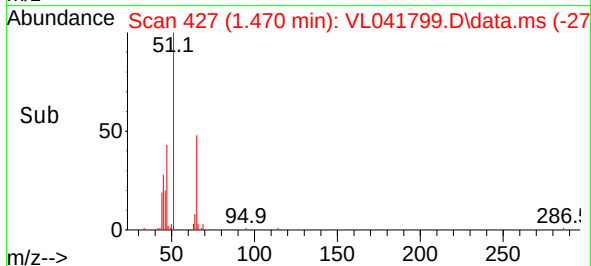
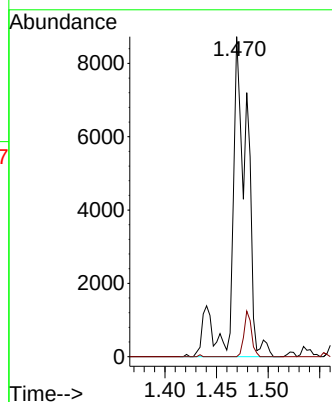
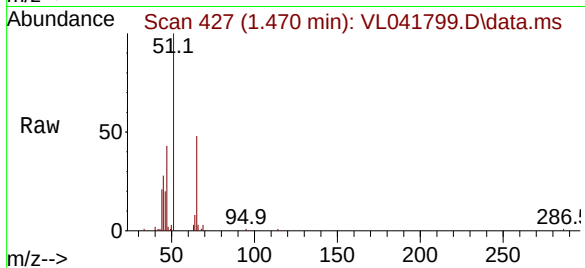
C0AC0

Tgt Ion: 51 Resp: 8857

Ion Ratio Lower Upper

51 100

67 7.0 15.0 22.4#



#4

Chloromethane

Concen: 0.457 ppbv

RT: 1.538 min Scan# 448

Delta R.T. 0.006 min

Lab File: VL041799.D

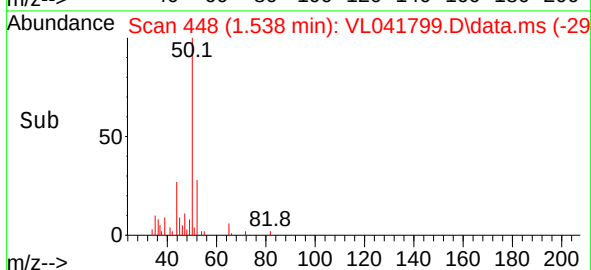
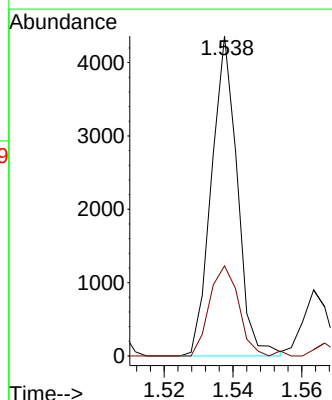
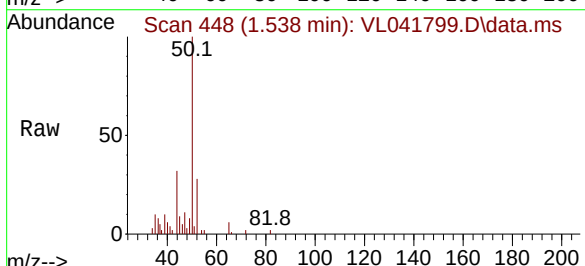
Acq: 18 Dec 2024 18:17

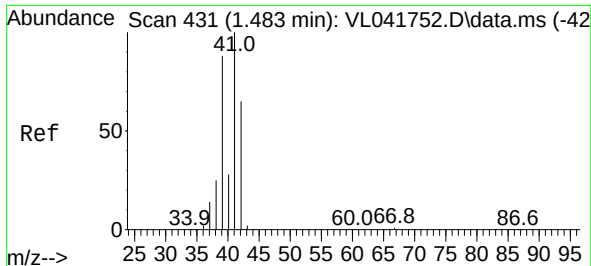
Tgt Ion: 50 Resp: 2275

Ion Ratio Lower Upper

50 100

52 28.5 26.2 39.2





#9

Propene

Concen: 9.201 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

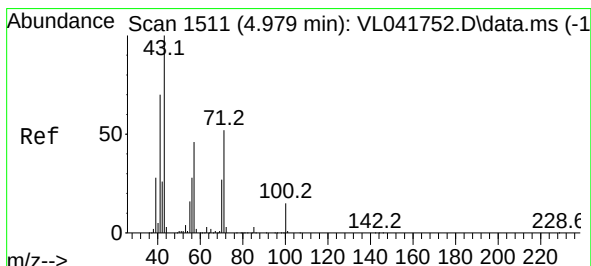
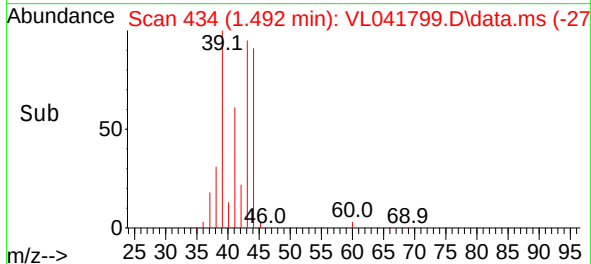
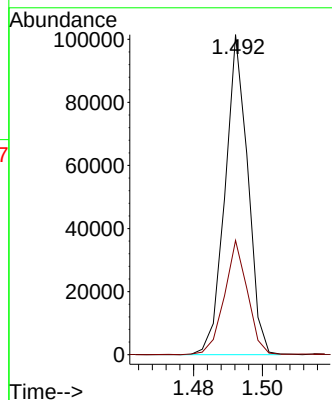
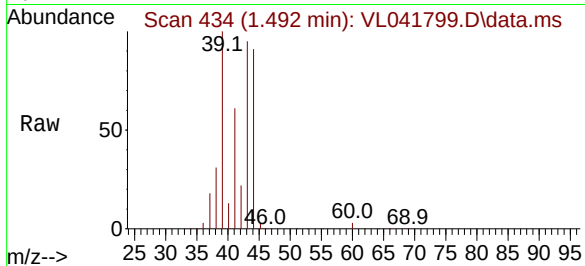
C0AC0

Tgt Ion: 41 Resp: 46494

Ion Ratio Lower Upper

41 100

42 36.9 52.4 78.6#



#10

Heptane

Concen: 0.031 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. 0.025 min

Lab File: VL041799.D

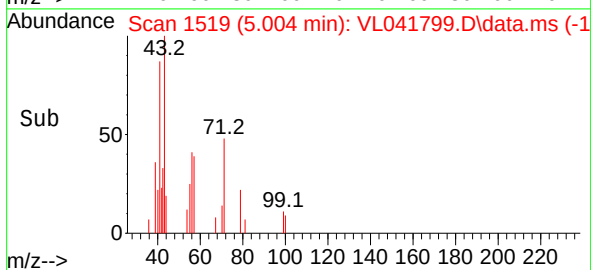
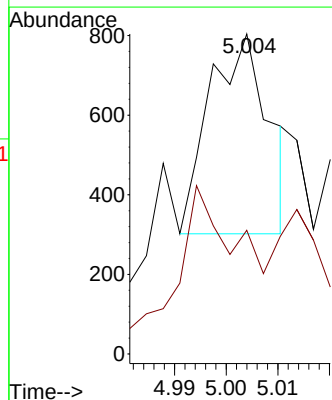
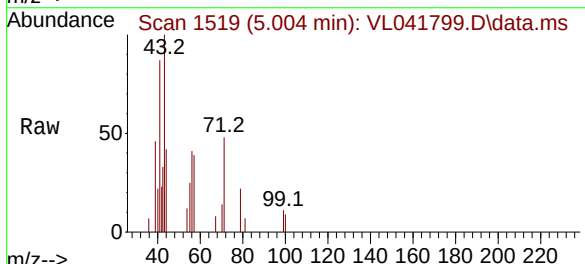
Acq: 18 Dec 2024 18:17

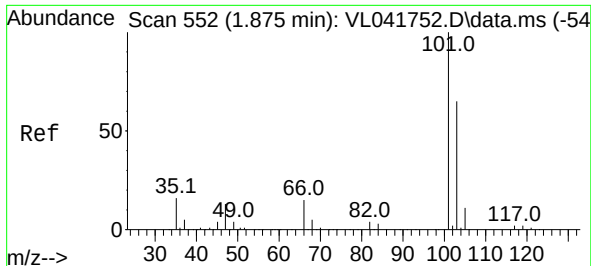
Tgt Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

57 0.0 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.202 ppbv

RT: 1.884 min Scan# 506

Delta R.T. 0.009 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

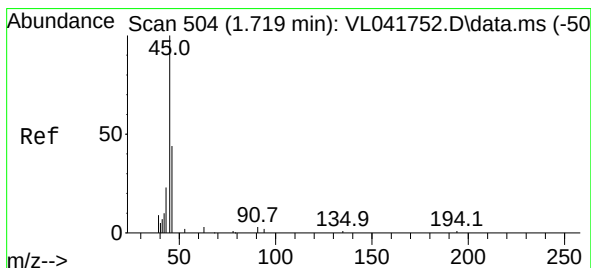
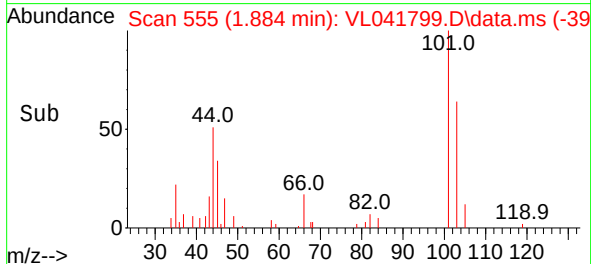
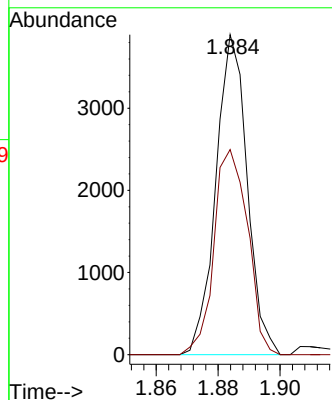
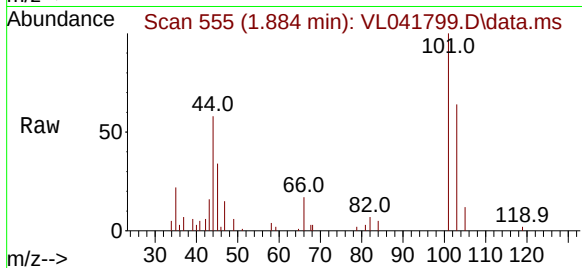
C0AC0

Tgt Ion:101 Resp: 2734

Ion Ratio Lower Upper

101 100

103 64.1 51.8 77.8



#13

Ethanol

Concen: 50.123 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041799.D

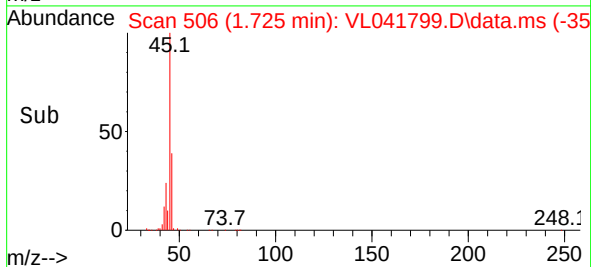
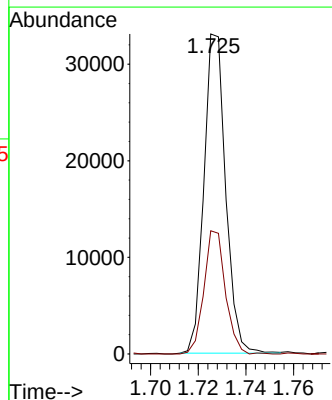
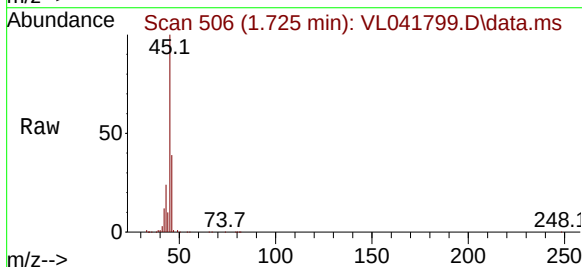
Acq: 18 Dec 2024 18:17

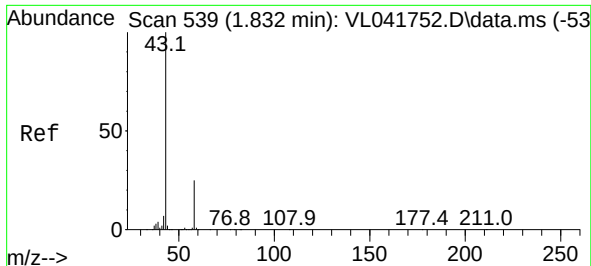
Tgt Ion: 45 Resp: 20973

Ion Ratio Lower Upper

45 100

46 38.6 16.4 65.8





#15

Acetone

Concen: 5.198 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

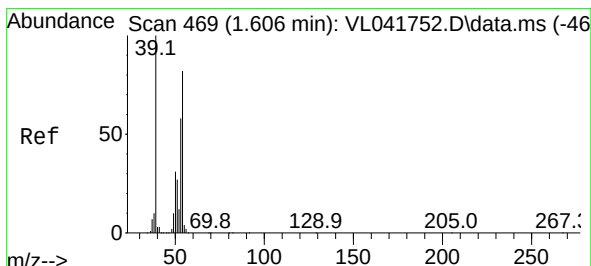
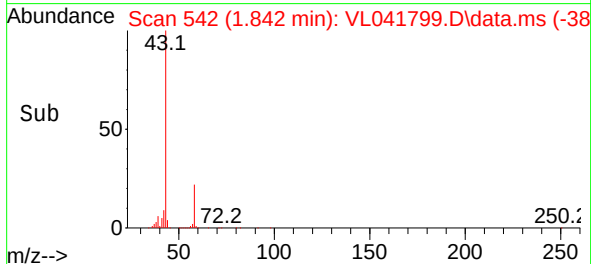
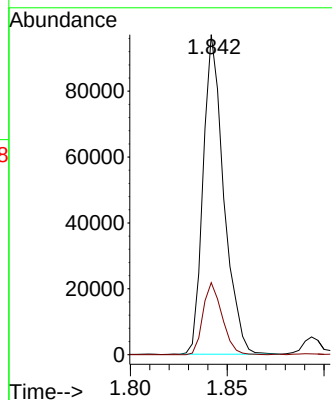
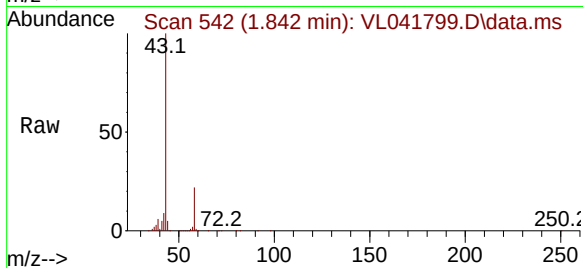
C0AC0

Tgt Ion: 43 Resp: 72299

Ion Ratio Lower Upper

43 100

58 20.8 19.7 29.5



#16

1,3-Butadiene

Concen: 1.740 ppbv

RT: 1.625 min Scan# 475

Delta R.T. 0.019 min

Lab File: VL041799.D

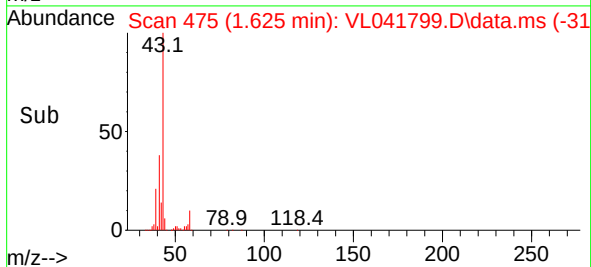
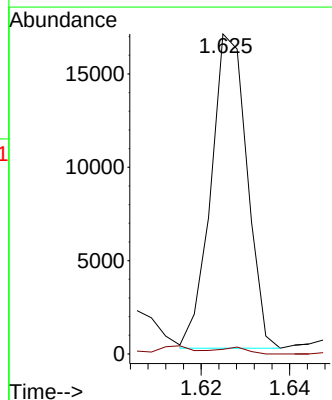
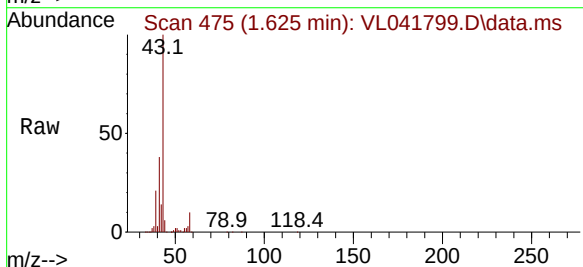
Acq: 18 Dec 2024 18:17

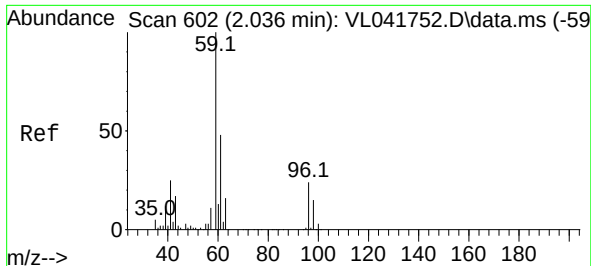
Tgt Ion: 39 Resp: 9529

Ion Ratio Lower Upper

39 100

54 4.8 58.4 87.6#

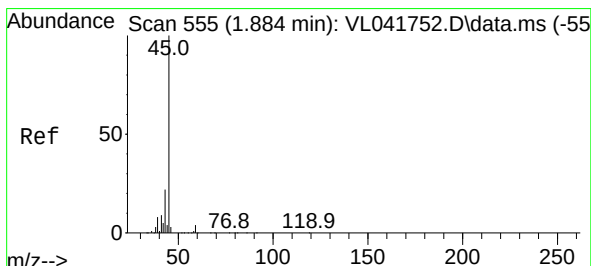
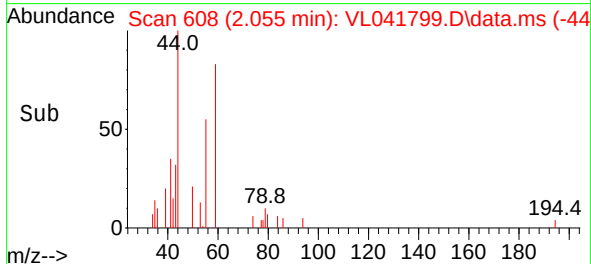
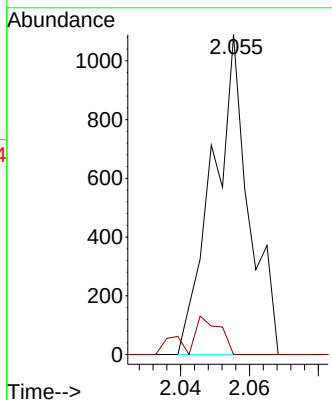
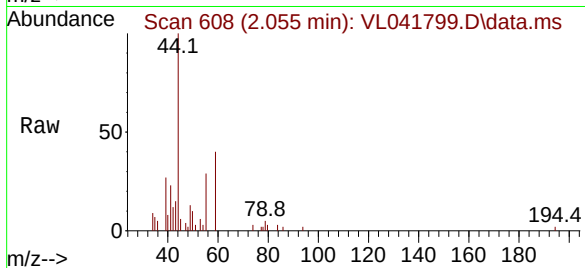




#17
tert-Butyl alcohol
Concen: 0.057 ppbv
RT: 2.055 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

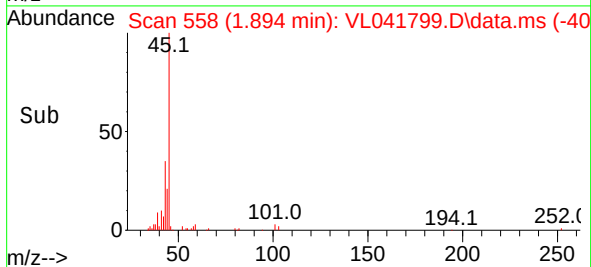
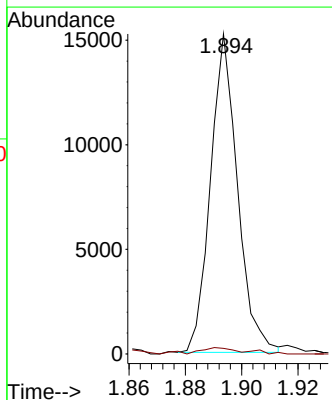
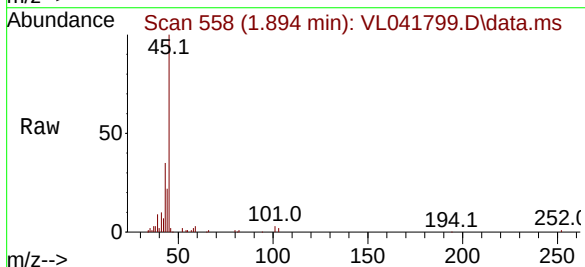
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

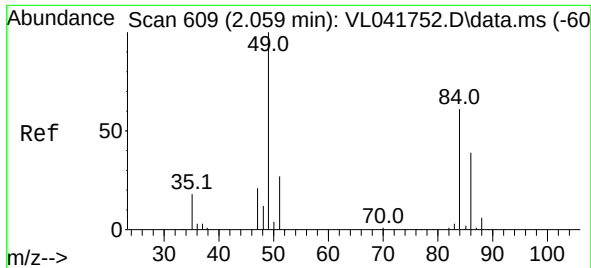
Tgt Ion: 59 Resp: 793
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 1.217 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.009 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 45 Resp: 10160
Ion Ratio Lower Upper
45 100
58 147.9 33.3 49.9#





#20

Methylene Chloride

Concen: 0.723 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041799.D

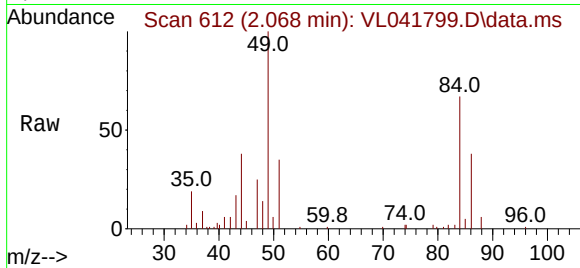
Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0



Tgt Ion: 84 Resp: 2867

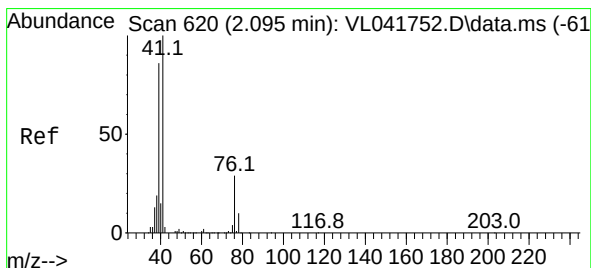
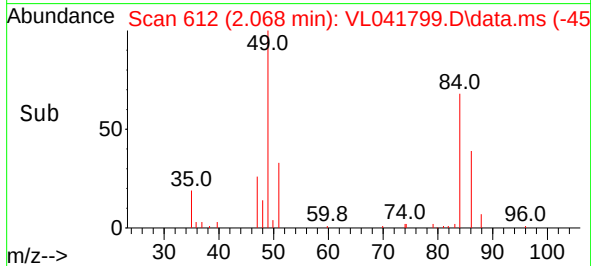
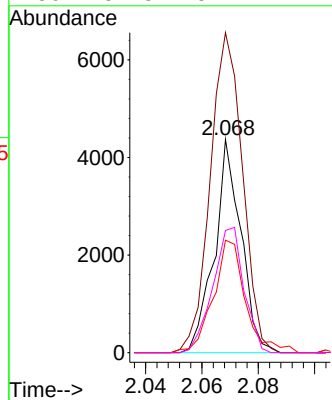
Ion Ratio Lower Upper

84 100

49 150.1 132.6 198.8

51 51.2 37.6 56.4

86 57.3 51.4 77.0



#21

Allyl Chloride

Concen: 0.053 ppbv

RT: 2.088 min Scan# 618

Delta R.T. -0.007 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

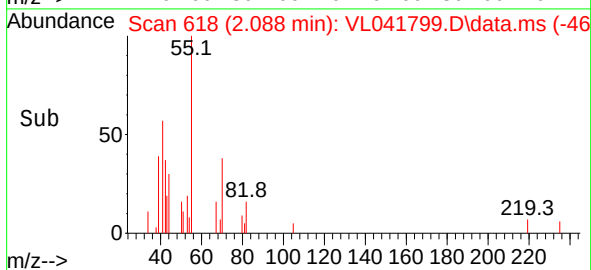
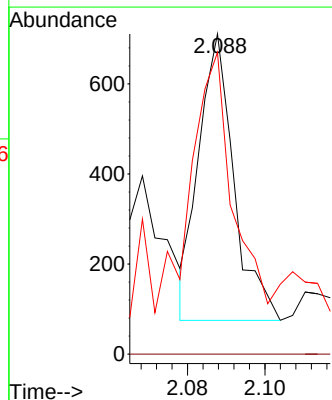
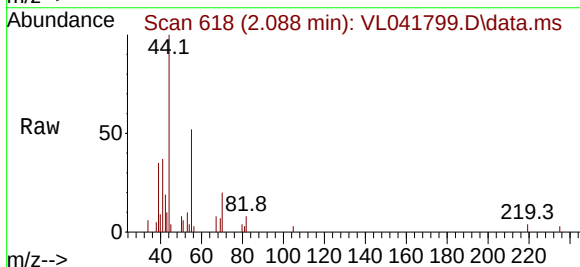
Tgt Ion: 41 Resp: 399

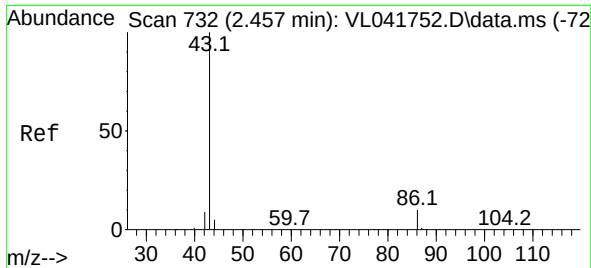
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 133.8 69.2 103.8#

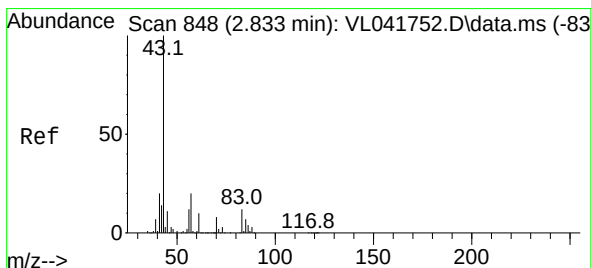
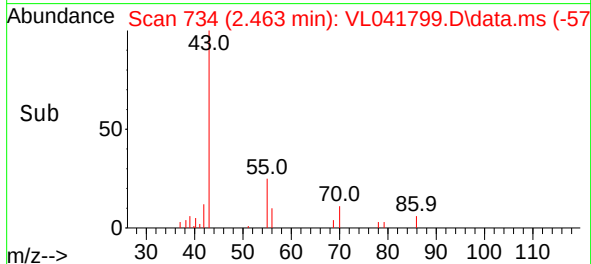
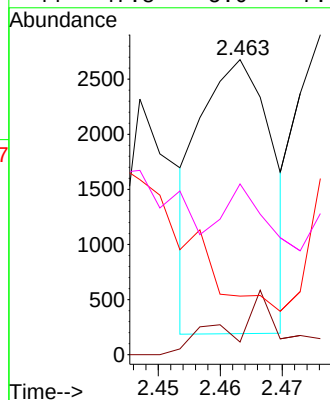
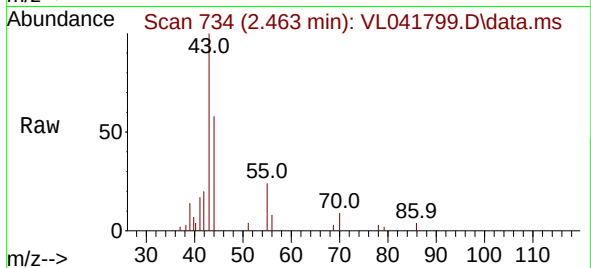




#23
 Vinyl Acetate
 Concen: 0.311 ppbv
 RT: 2.463 min Scan# 741
 Delta R.T. 0.006 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

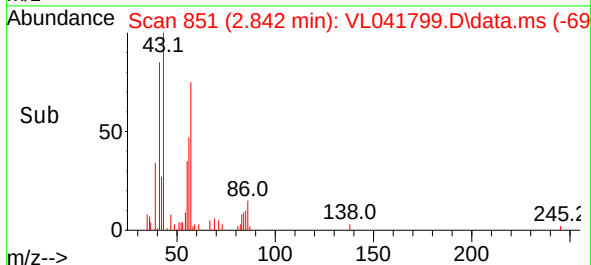
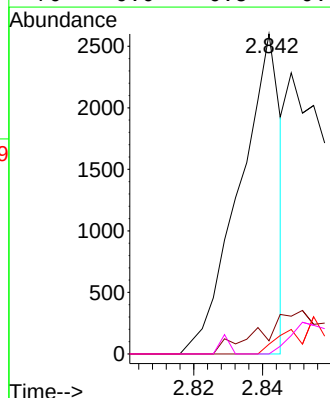
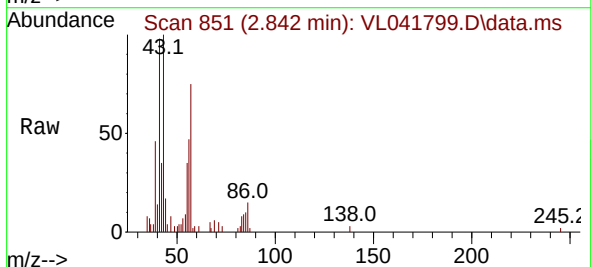
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC0

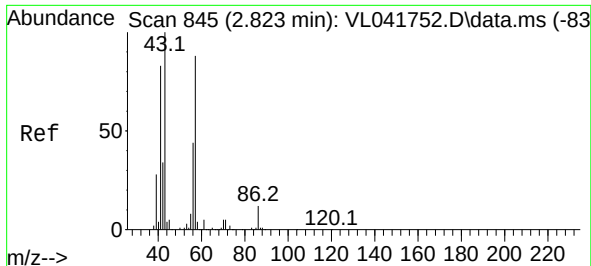
Tgt Ion: 43	Resp: 2010
Ion Ratio	Lower Upper
43 100	
86 6.2	6.6 10.0#
42 13.4	8.2 12.2#
44 47.8	5.0 7.4#



#25
 Ethyl Acetate
 Concen: 0.083 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.009 min
 Lab File: VL041799.D
 Acq: 18 Dec 2024 18:17

Tgt	Ion: 43	Resp:	2156
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.0	10.6#
70	0.0	6.5	9.7#

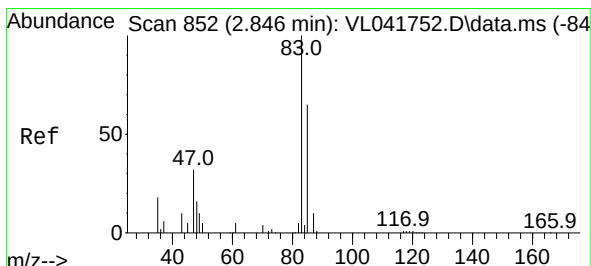
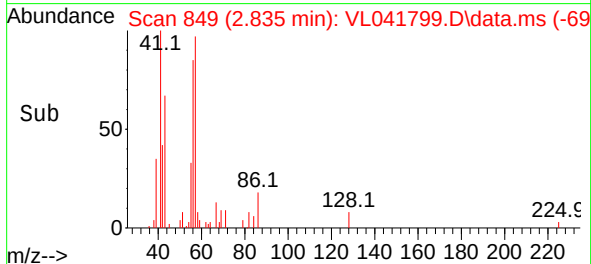
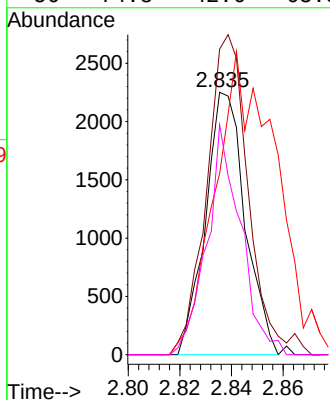
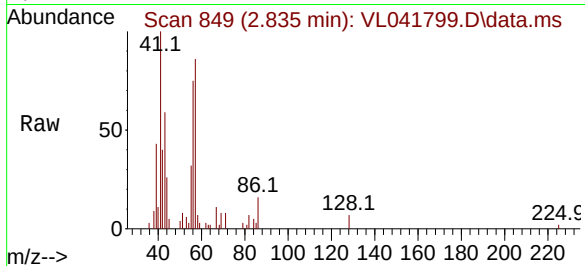




#26
Hexane
Concen: 0.244 ppbv
RT: 2.835 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

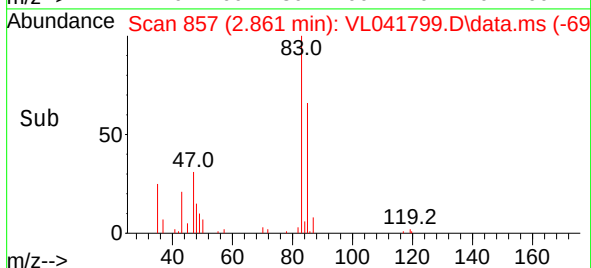
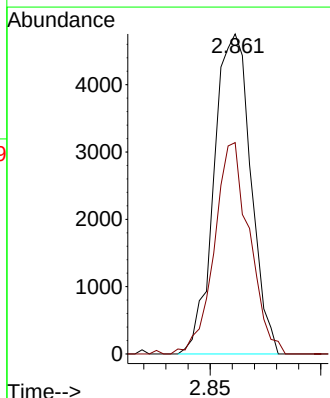
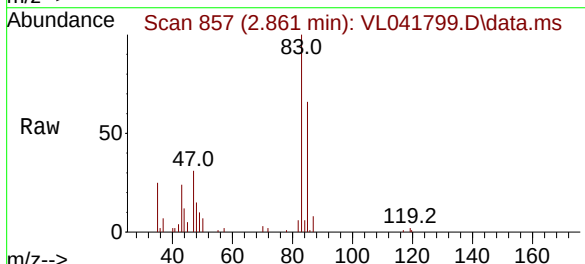
Instrument :
MSVOA_L
ClientSampleId :
C0AC0

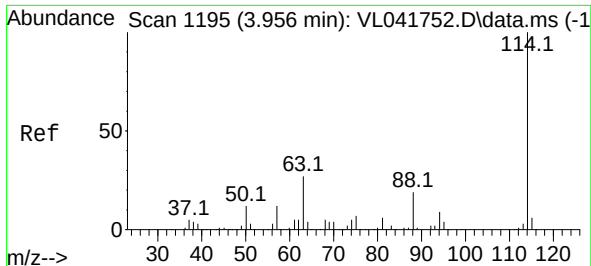
Tgt Ion: 57 Resp: 2395
Ion Ratio Lower Upper
57 100
41 128.9 79.6 119.4#
43 178.1 211.0 316.6#
56 74.8 42.6 63.8#



#29
Chloroform
Concen: 0.367 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL041799.D
Acq: 18 Dec 2024 18:17

Tgt Ion: 83 Resp: 5485
Ion Ratio Lower Upper
83 100
85 64.5 51.8 77.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1195

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

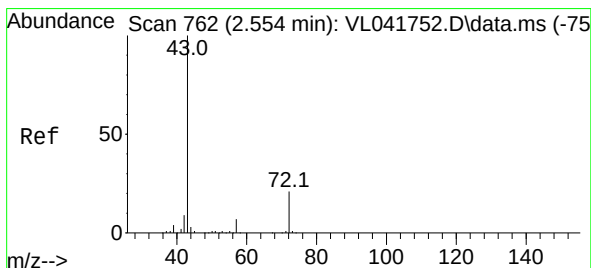
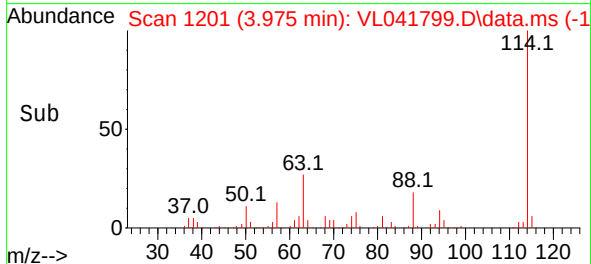
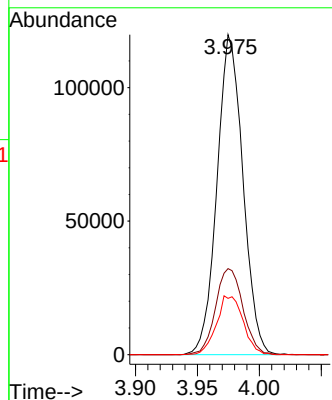
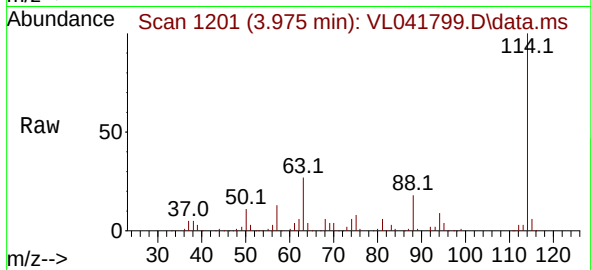
Tgt Ion:114 Resp: 174715

Ion Ratio Lower Upper

114 100

63 28.4 21.8 32.8

88 18.9 14.8 22.2



#34

2-Butanone

Concen: 0.421 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL041799.D

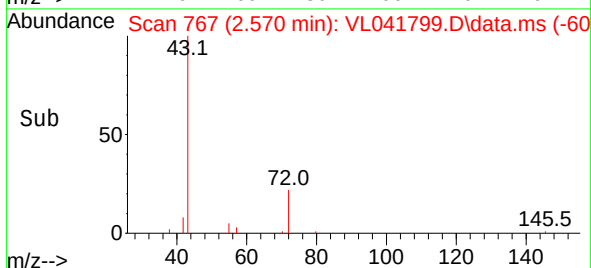
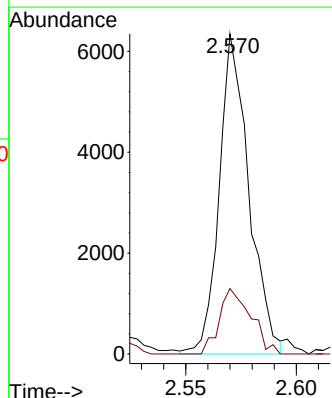
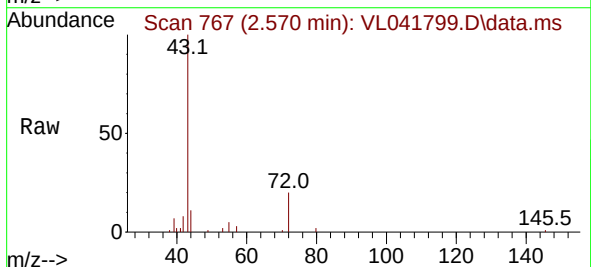
Acq: 18 Dec 2024 18:17

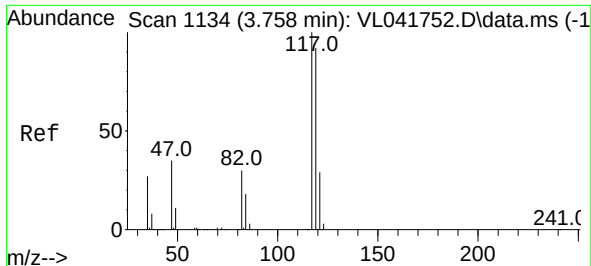
Tgt Ion: 43 Resp: 5913

Ion Ratio Lower Upper

43 100

72 21.8 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.051 ppbv

RT: 3.784 min Scan# 1134

Delta R.T. 0.025 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

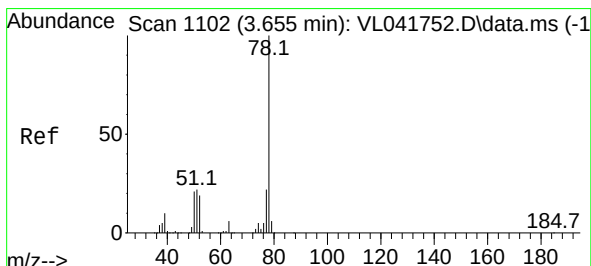
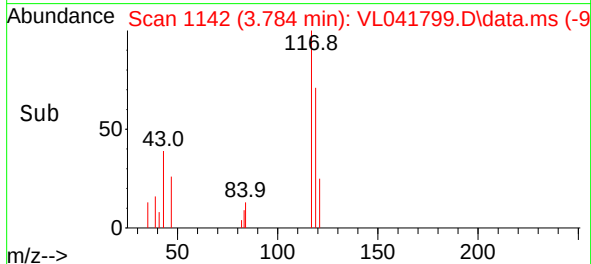
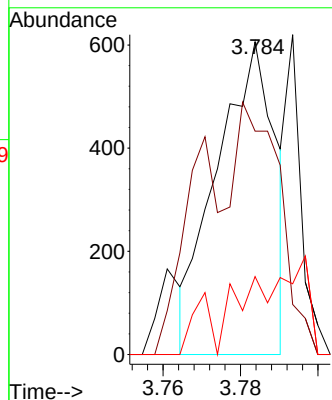
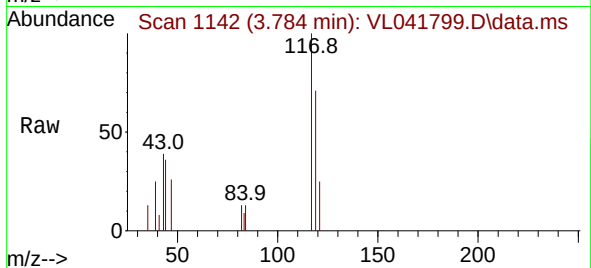
Tgt Ion:117 Resp: 633

Ion Ratio Lower Upper

117 100

119 49.7 73.7 110.5#

121 31.8 23.0 34.4



#36

Benzene

Concen: 0.237 ppbv

RT: 3.670 min Scan# 1107

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

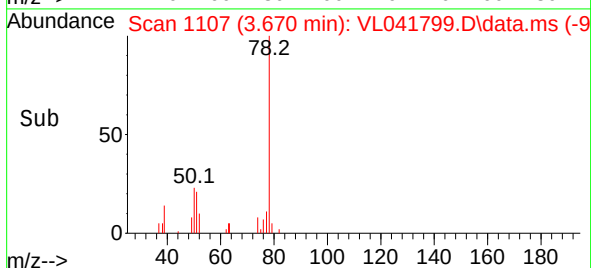
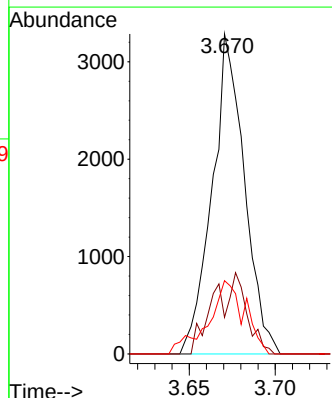
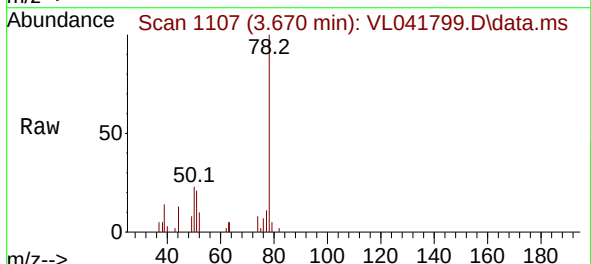
Tgt Ion: 78 Resp: 4287

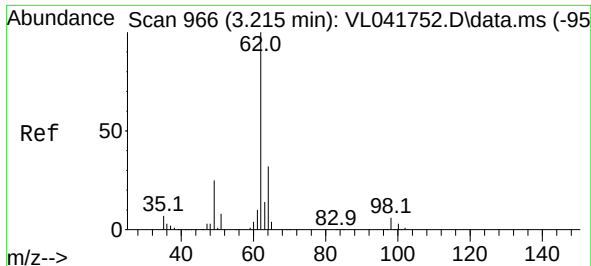
Ion Ratio Lower Upper

78 100

77 11.4 17.8 26.6#

50 22.9 17.2 25.8





#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

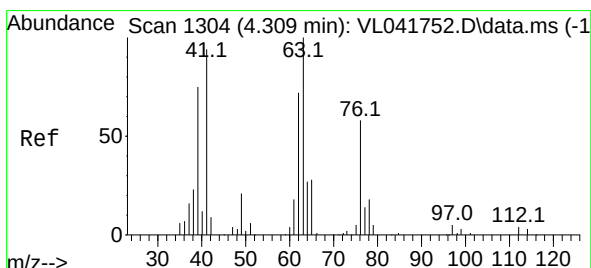
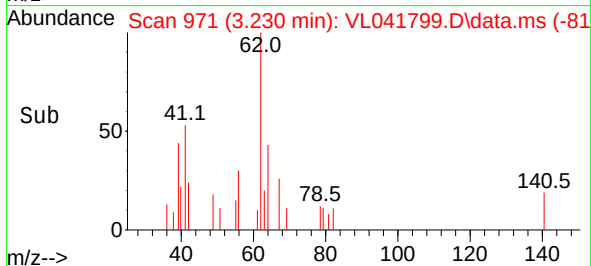
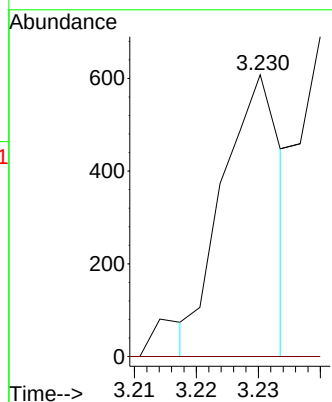
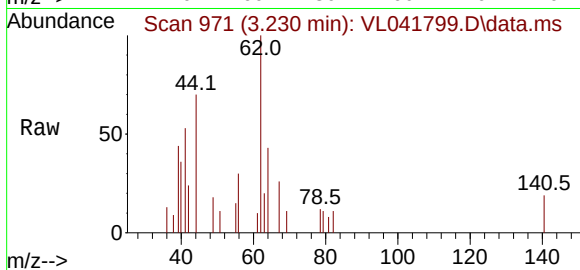
C0AC0

Tgt Ion: 62 Resp: 393

Ion Ratio Lower Upper

62 100

98 0.0 4.7 7.1#



#39

1,2-Dichloropropane

Concen: 7.597 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.334 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

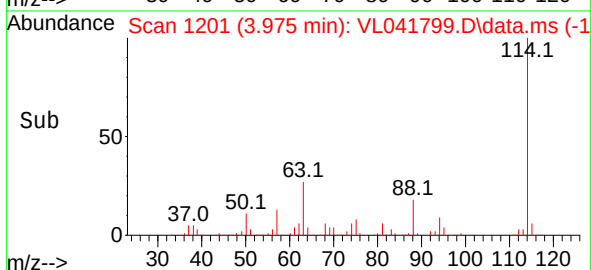
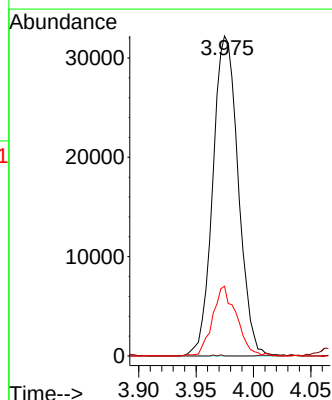
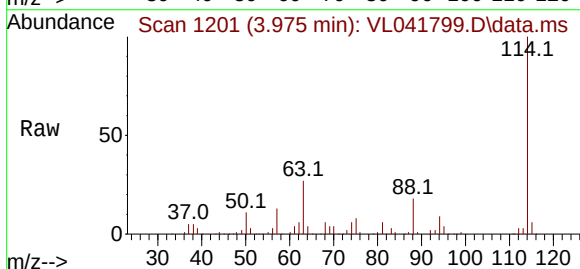
Tgt Ion: 63 Resp: 49659

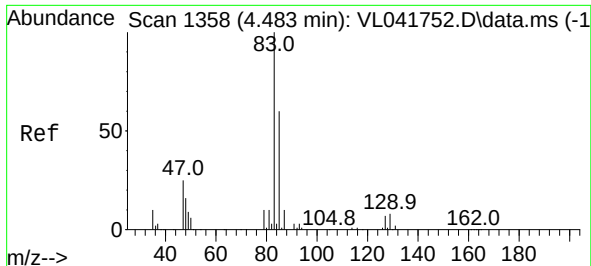
Ion Ratio Lower Upper

63 100

41 0.0 75.3 112.9#

62 21.8 57.3 85.9#





#42

Bromodichloromethane

Concen: 0.036 ppbv

RT: 4.502 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

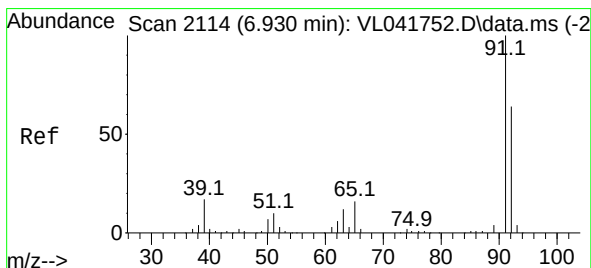
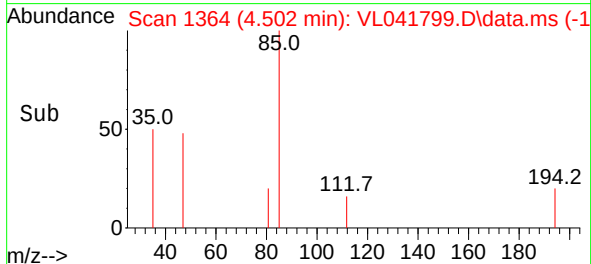
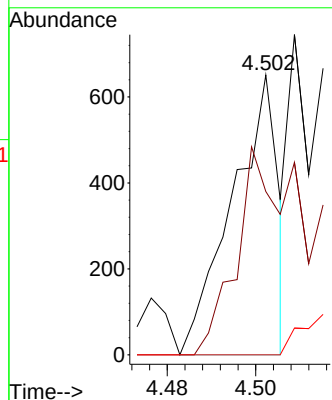
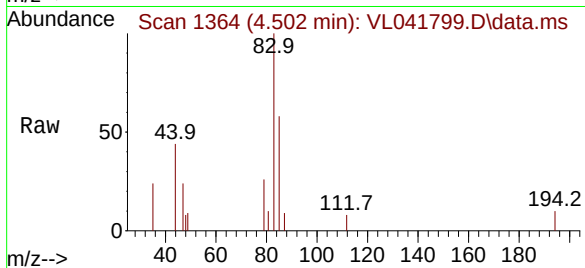
Tgt Ion: 83 Resp: 472

Ion Ratio Lower Upper

83 100

85 58.4 48.0 72.0

127 0.0 5.8 8.8#



#53

Toluene

Concen: 0.587 ppbv

RT: 6.952 min Scan# 2121

Delta R.T. 0.022 min

Lab File: VL041799.D

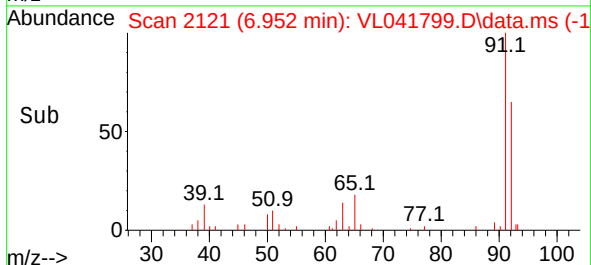
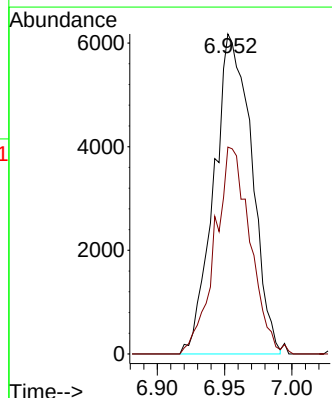
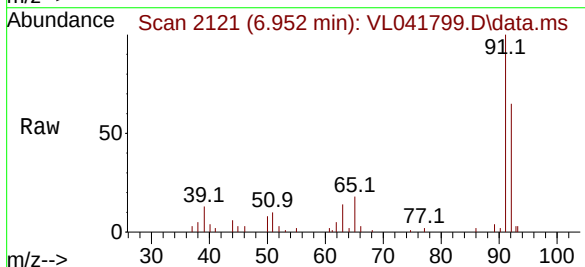
Acq: 18 Dec 2024 18:17

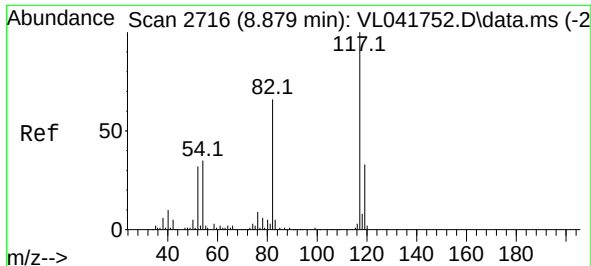
Tgt Ion: 91 Resp: 12028

Ion Ratio Lower Upper

91 100

92 61.0 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

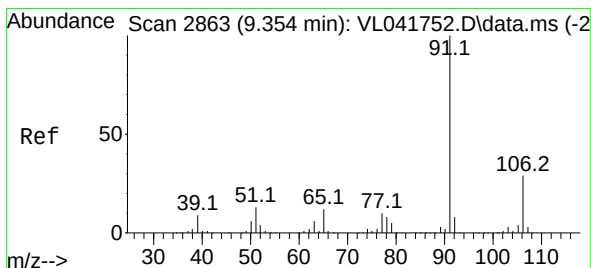
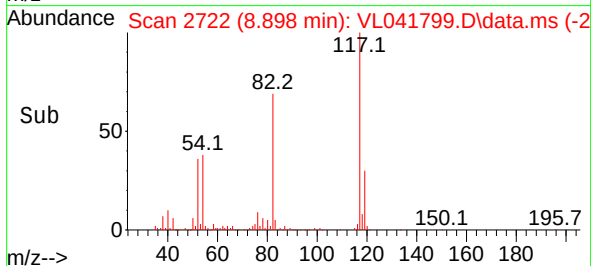
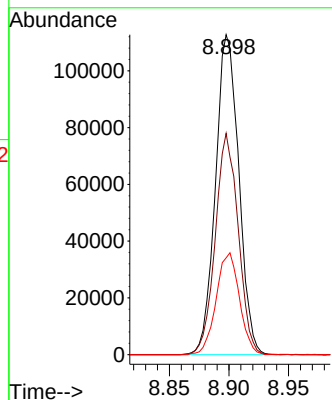
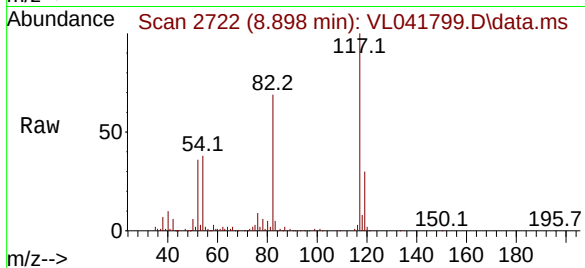
Tgt Ion:117 Resp: 153485

Ion Ratio Lower Upper

117 100

82 68.0 53.8 80.8

119 31.9 26.7 40.1



#58

Ethyl Benzene

Concen: 0.111 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. 0.191 min

Lab File: VL041799.D

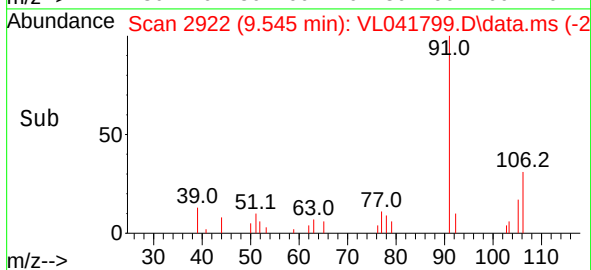
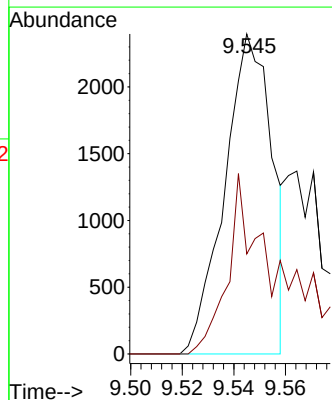
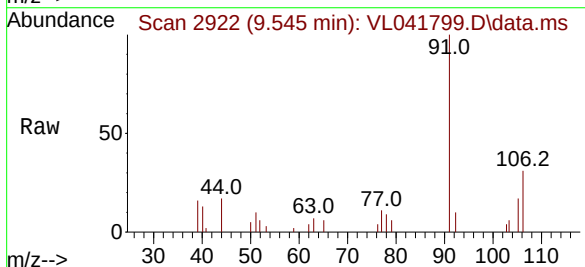
Acq: 18 Dec 2024 18:17

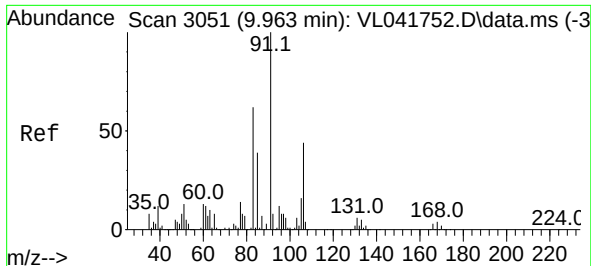
Tgt Ion: 91 Resp: 3056

Ion Ratio Lower Upper

91 100

106 31.2 23.5 35.3





#60

o-Xylene

Concen: 0.062 ppbv

RT: 9.979 min Scan# 3051

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

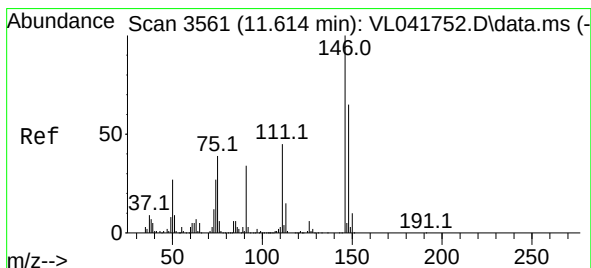
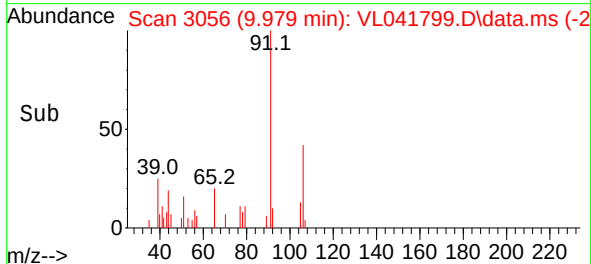
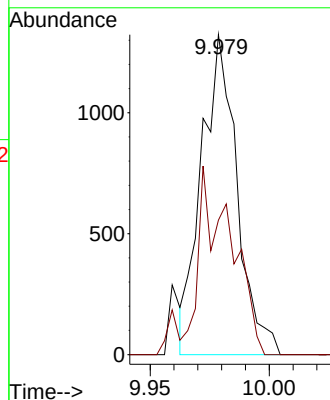
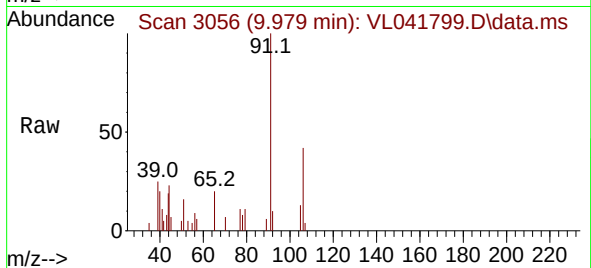
C0AC0

Tgt Ion: 91 Resp: 1372

Ion Ratio Lower Upper

91 100

106 58.5 21.1 63.4



#66

Benzyl Chloride

Concen: 0.030 ppbv

RT: 11.629 min Scan# 3566

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

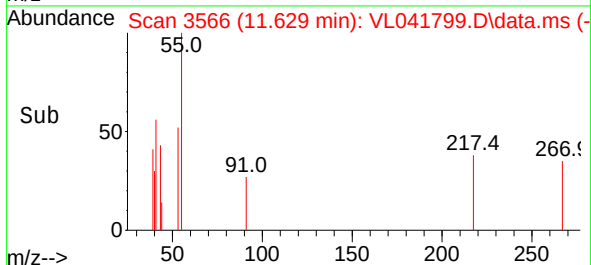
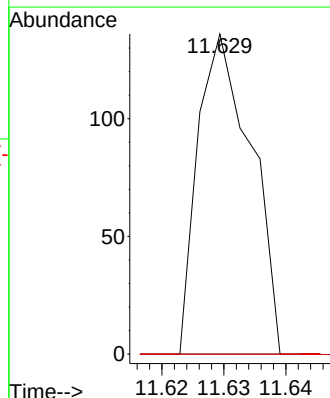
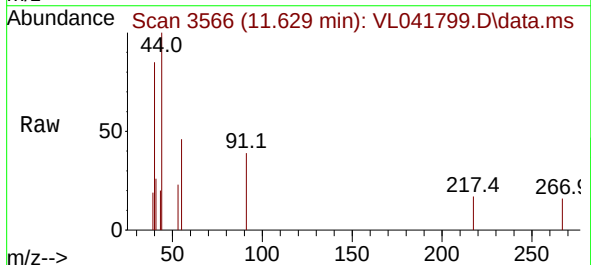
Tgt Ion: 91 Resp: 81

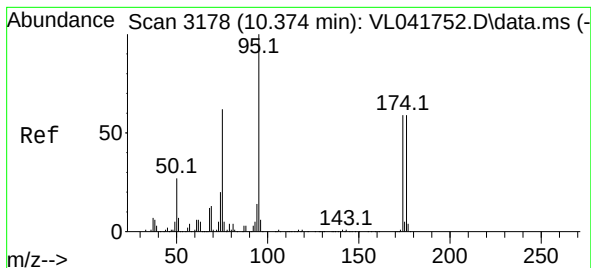
Ion Ratio Lower Upper

91 100

126 0.0 13.9 20.9#

128 0.0 4.4 6.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.441 ppbv

RT: 10.390 min Scan# 3178

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Instrument :

MSVOA_L

ClientSampleId :

C0AC0

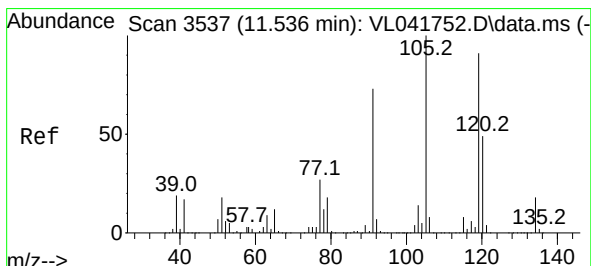
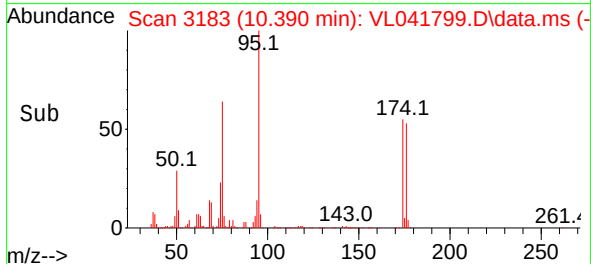
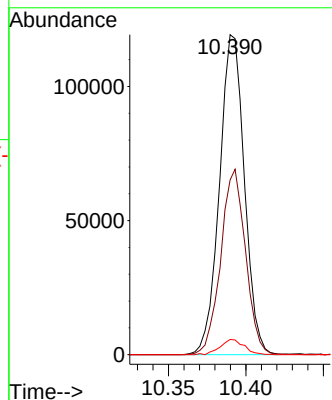
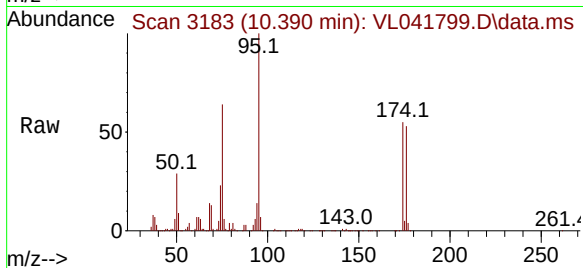
Tgt Ion: 95 Resp: 133546

Ion Ratio Lower Upper

95 100

174 57.6 47.6 71.4

175 4.6 3.7 5.5



#74

1,2,4-Trimethylbenzene

Concen: 0.053 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL041799.D

Acq: 18 Dec 2024 18:17

Tgt Ion: 105 Resp: 1239

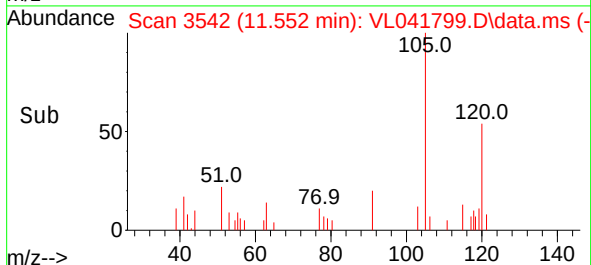
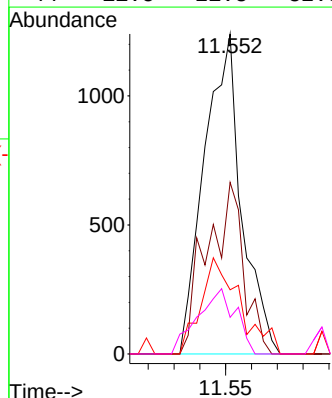
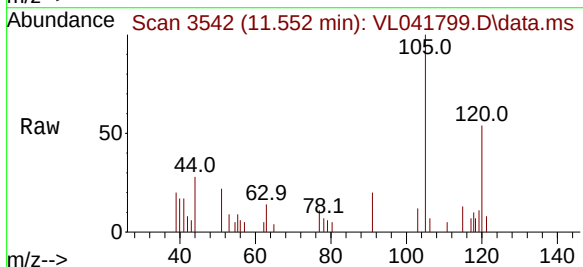
Ion Ratio Lower Upper

105 100

120 53.6 39.0 58.4

91 20.1 58.1 87.1#

77 11.5 21.8 32.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041800.D
 Acq On : 18 Dec 2024 18:50
 Operator : SY/MD
 Sample : P5293-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC1

Quant Time: Dec 19 07:57:35 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	75472	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.971	114	186655	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	166096	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 150452 10.870 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	5105	0.380	ppbv	91
3) Chlorodifluoromethane	1.680	51	459	0.037	ppbv	97
4) Chloromethane	1.537	50	10014	1.906	ppbv	92
7) Chloroethane	1.706	64	150	0.073	ppbv #	68
9) Propene	1.486	41	31355	5.878	ppbv	88
10) Heptane	4.994	43	1626	0.119	ppbv #	1
11) Trichlorofluoromethane	1.884	101	2747	0.193	ppbv #	82
12) 1,1,2-Trichlorotrifluo...	2.143	101	655	0.060	ppbv	95
13) Ethanol	1.732	45	2100930	4756.166	ppbv	99
15) Acetone	1.838	43	315433	21.480	ppbv	98
16) 1,3-Butadiene	1.605	39	15495	2.680	ppbv #	58
17) tert-Butyl alcohol	2.052	59	15513	1.065	ppbv	100
19) Isopropyl Alcohol	1.894	45	43147	4.897	ppbv #	1
20) Methylene Chloride	2.068	84	6983	1.668	ppbv	88
21) Allyl Chloride	2.081	41	2931	0.368	ppbv #	44
23) Vinyl Acetate	2.463	43	19772	2.900	ppbv #	95
25) Ethyl Acetate	2.848	43	30957	1.133	ppbv #	90
26) Hexane	2.835	57	4807	0.464	ppbv #	1
29) Chloroform	2.858	83	23212	1.469	ppbv	95
30) Cyclohexane	3.871	84	644	0.073	ppbv #	1
31) cis-1,2-Dichloroethene	2.848	61	3196	0.298	ppbv #	26
34) 2-Butanone	2.567	43	72623	4.836	ppbv	99
35) Carbon Tetrachloride	3.777	117	464	0.035	ppbv #	38
36) Benzene	3.667	78	15442	0.800	ppbv	97
37) 1,2-Dichloroethane	3.230	62	370	0.031	ppbv	98
39) 1,2-Dichloropropane	3.971	63	51579	7.386	ppbv #	18
41) Tetrahydrofuran	3.075	42	418	0.050	ppbv #	39
42) Bromodichloromethane	4.499	83	2015	0.146	ppbv	97
53) Toluene	6.949	91	27768	1.269	ppbv	96
58) Ethyl Benzene	9.373	91	3690	0.123	ppbv	95
59) m/p-Xylene	9.545	91	39541	1.645	ppbv #	100
60) o-Xylene	9.975	91	15281	0.634	ppbv	97
61) Styrene	9.885	104	4539	0.435	ppbv	98
64) n-propylbenzene	11.005	120	1276	0.139	ppbv #	1
65) tert-Butylbenzene	11.548	119	8469	0.259	ppbv #	44
66) Benzyl Chloride	11.545	91	10925	3.795	ppbv #	67
67) sec-Butylbenzene	11.891	105	9751	0.216	ppbv	92
69) p-Isopropyltoluene	11.937	119	6800	0.182	ppbv #	85
70) n-Butylbenzene	12.358	91	4337	0.120	ppbv #	82
71) 2-Chlorotoluene	10.869	91	25613	0.926	ppbv #	47
72) 4-Ethyltoluene	11.137	105	15210	0.534	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	15880	0.673	ppbv	89
74) 1,2,4-Trimethylbenzene	11.548	105	73547	2.896	ppbv #	58

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041800.D
Acq On : 18 Dec 2024 18:50
Operator : SY/MD
Sample : P5293-03
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0AC1

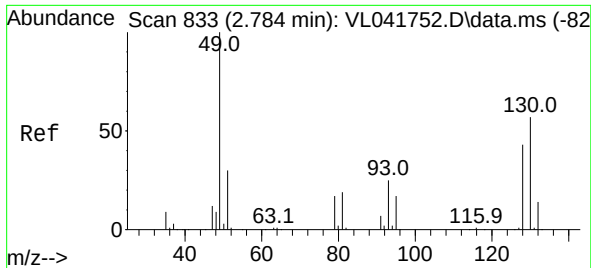
Quant Time: Dec 19 07:57:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	14.471	142	645	0.118	ppbv	# 72

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

Quant Time: Dec 19 07:57:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

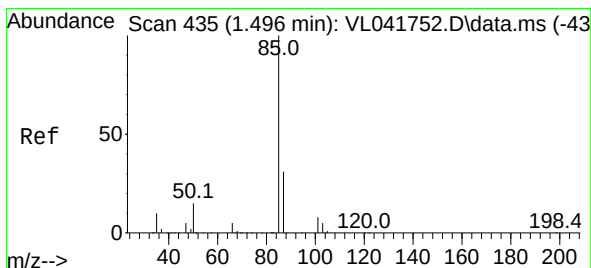
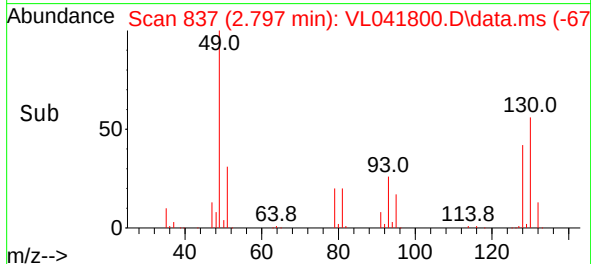
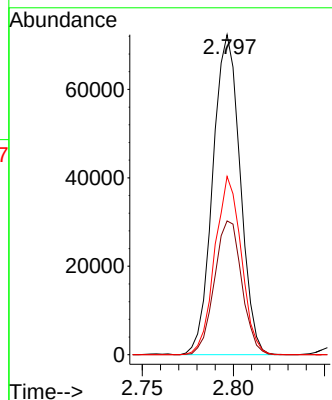
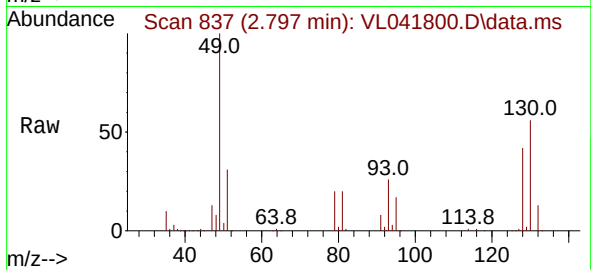




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 841
Delta R.T. 0.013 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

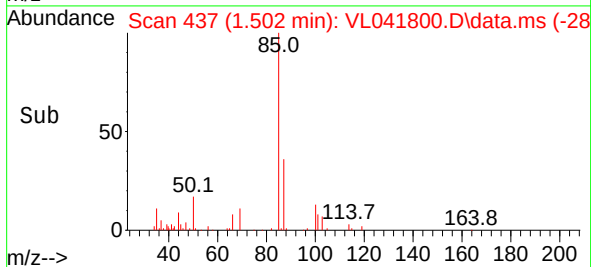
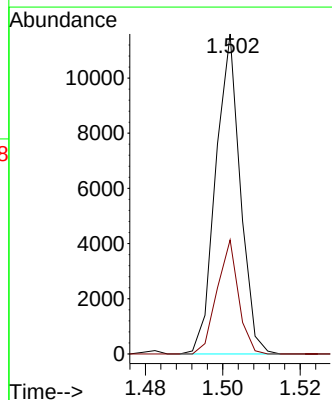
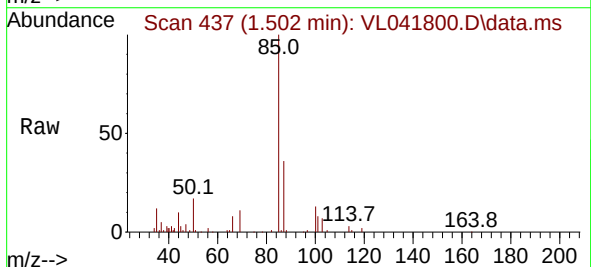
Instrument :
MSVOA_L
ClientSampleId :
C0AC1

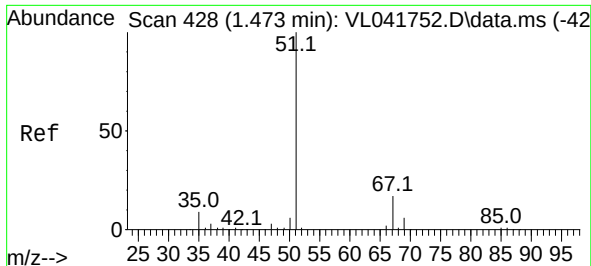
Tgt Ion: 49 Resp: 75472
Ion Ratio Lower Upper
49 100
128 41.8 21.6 64.6
130 53.9 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.380 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 85 Resp: 5105
Ion Ratio Lower Upper
85 100
87 35.6 24.5 36.7

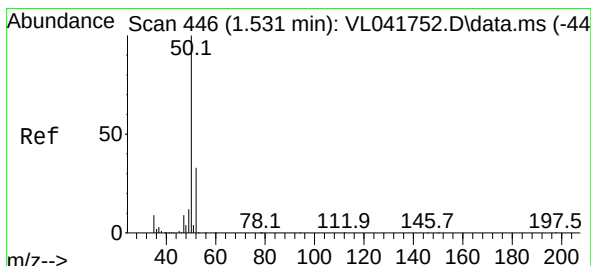
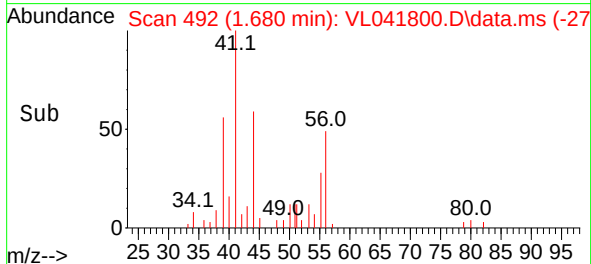
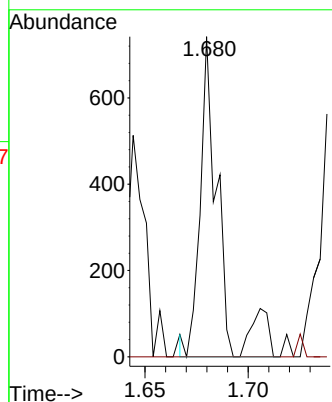
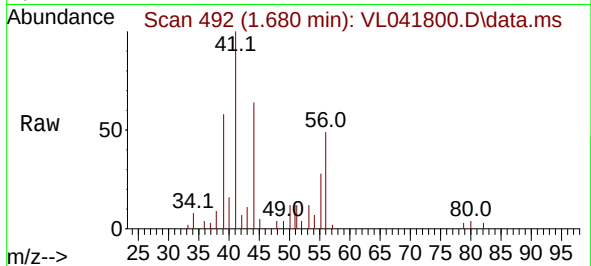




#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.680 min Scan# 41
Delta R.T. 0.207 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

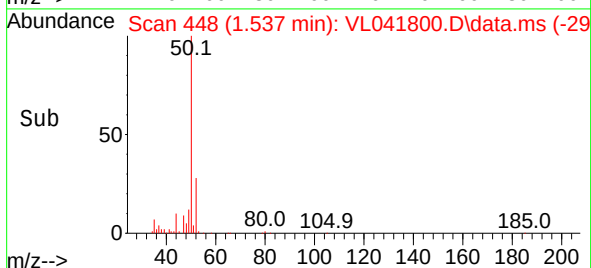
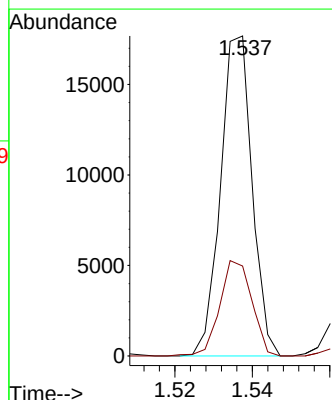
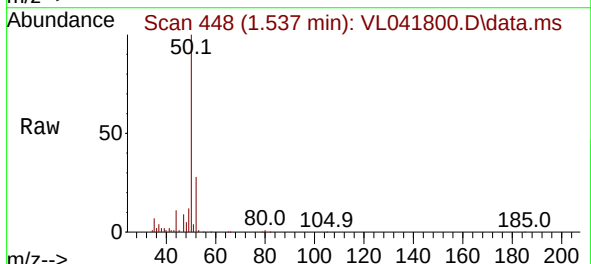
Instrument :
MSVOA_1
ClientSampleId :
C0AC1

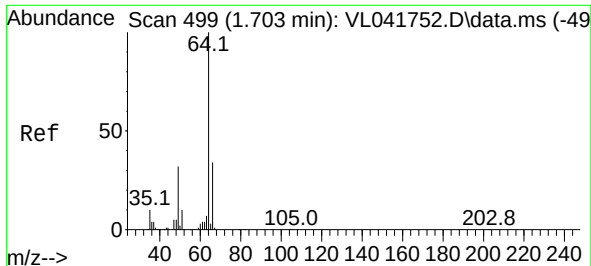
Tgt Ion: 51 Resp: 459
Ion Ratio Lower Upper
51 100
67 20.0 15.0 22.4



#4
Chloromethane
Concen: 1.906 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 50 Resp: 10014
Ion Ratio Lower Upper
50 100
52 28.1 26.2 39.2

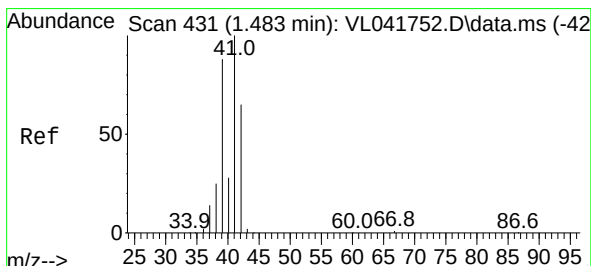
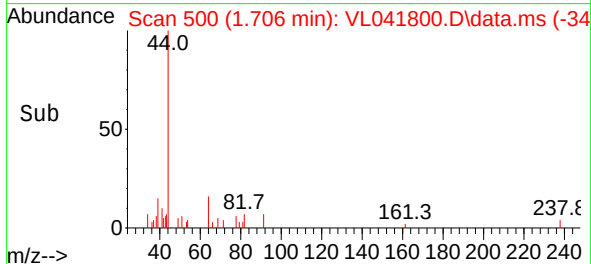
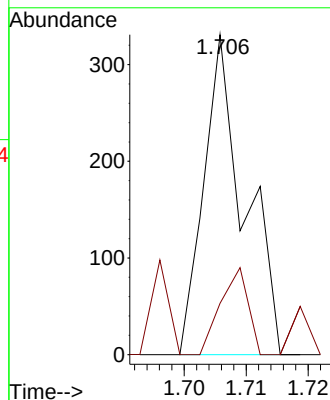
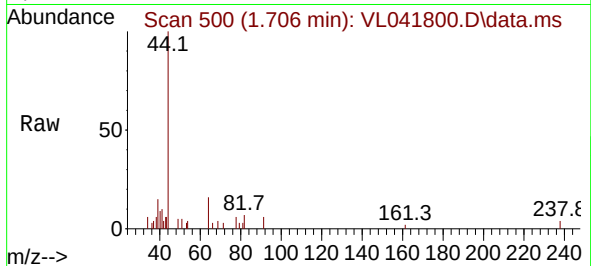




#7
Chloroethane
Concen: 0.073 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

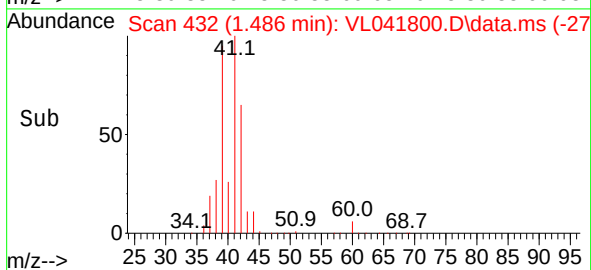
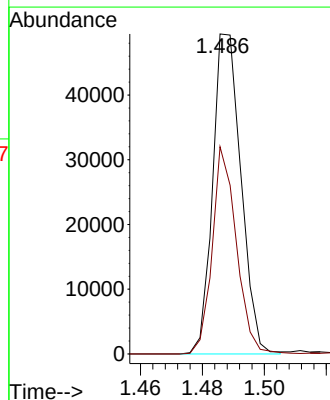
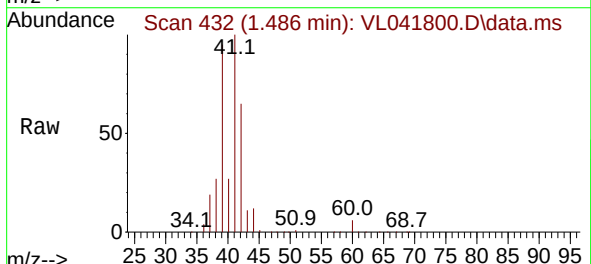
Instrument :
MSVOA_1
ClientSampleId :
C0AC1

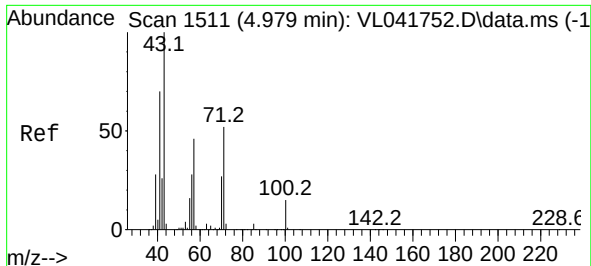
Tgt Ion: 64 Resp: 150
Ion Ratio Lower Upper
64 100
66 16.0 27.5 41.3#



#9
Propene
Concen: 5.878 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 41 Resp: 31355
Ion Ratio Lower Upper
41 100
42 55.6 52.4 78.6





#10

Heptane

Concen: 0.119 ppbv

RT: 4.994 min Scan# 1516

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

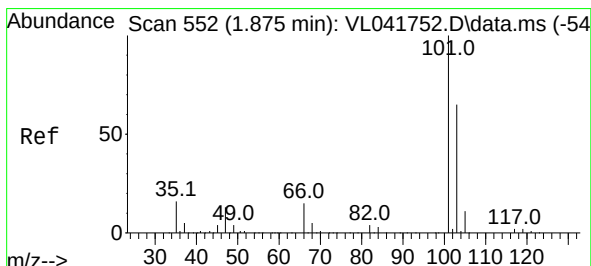
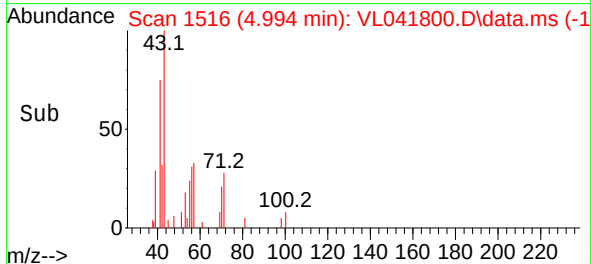
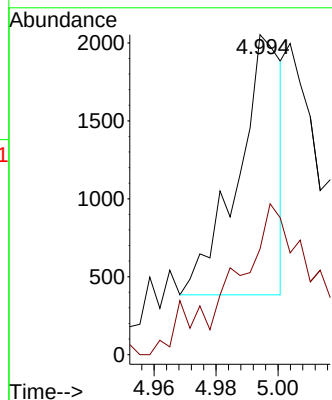
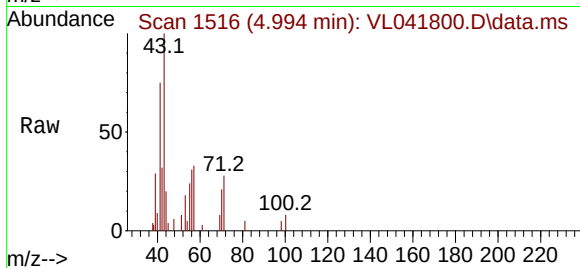
C0AC1

Tgt Ion: 43 Resp: 1626

Ion Ratio Lower Upper

43 100

57 116.0 38.5 57.7#



#11

Trichlorofluoromethane

Concen: 0.193 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.009 min

Lab File: VL041800.D

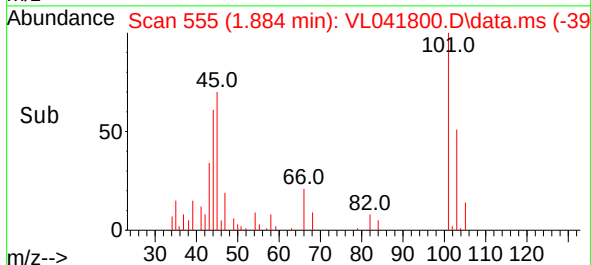
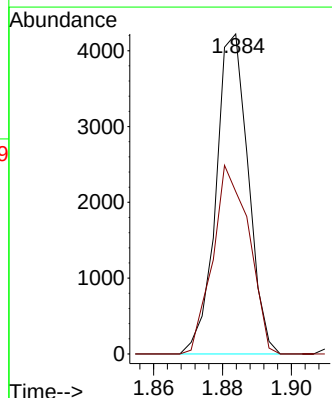
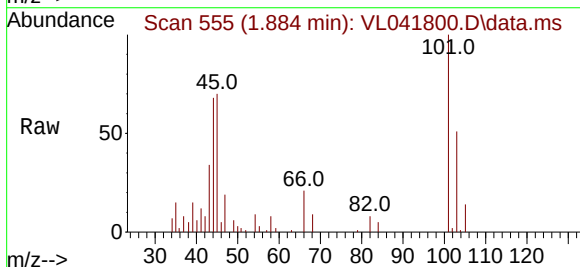
Acq: 18 Dec 2024 18:50

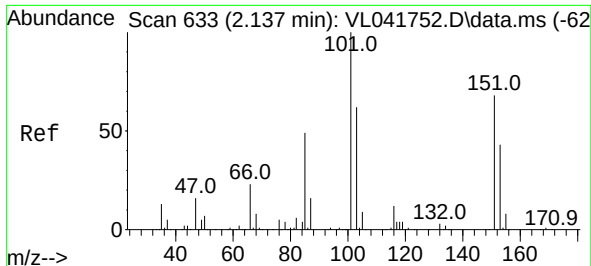
Tgt Ion:101 Resp: 2747

Ion Ratio Lower Upper

101 100

103 50.7 51.8 77.8#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.060 ppbv

RT: 2.143 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

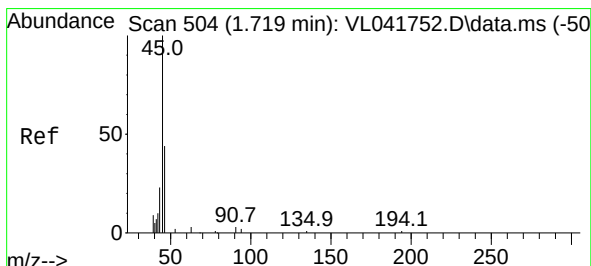
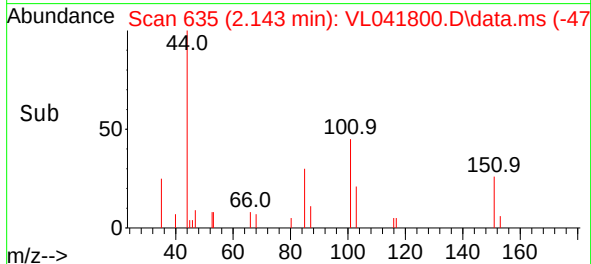
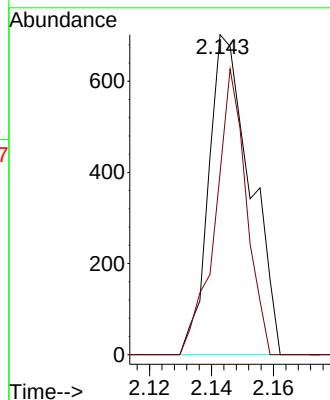
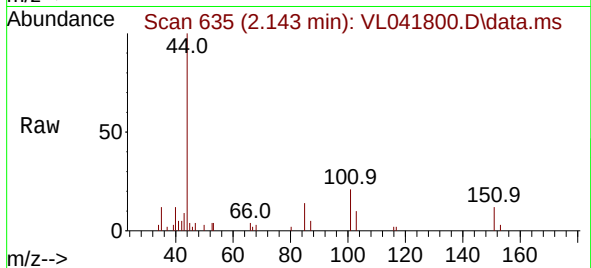
C0AC1

Tgt Ion:101 Resp: 655

Ion Ratio Lower Upper

101 100

151 66.7 56.8 85.2



#13

Ethanol

Concen: 4756.166 ppbv

RT: 1.732 min Scan# 508

Delta R.T. 0.012 min

Lab File: VL041800.D

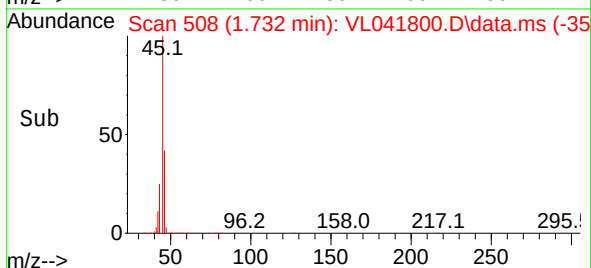
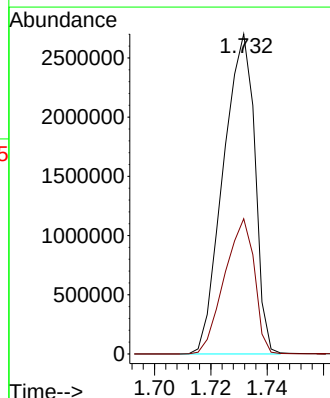
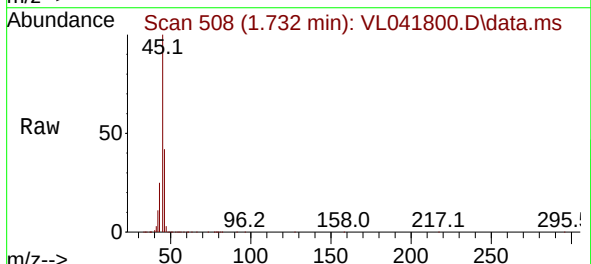
Acq: 18 Dec 2024 18:50

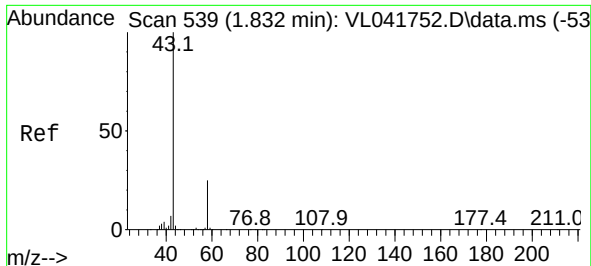
Tgt Ion: 45 Resp: 2100930

Ion Ratio Lower Upper

45 100

46 40.2 16.4 65.8





#15

Acetone

Concen: 21.480 ppbv

RT: 1.838 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

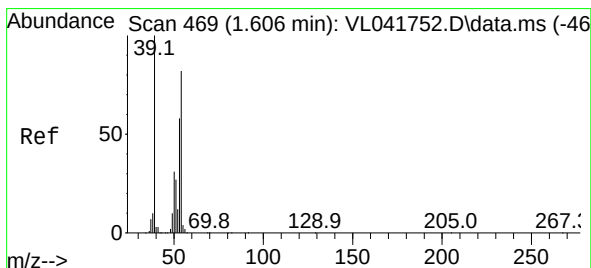
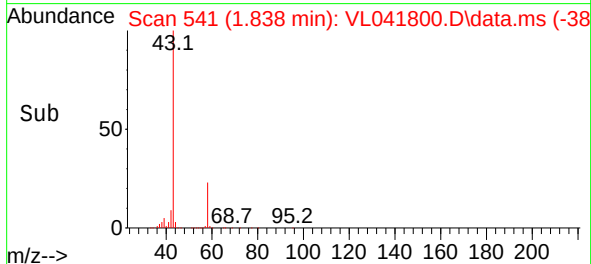
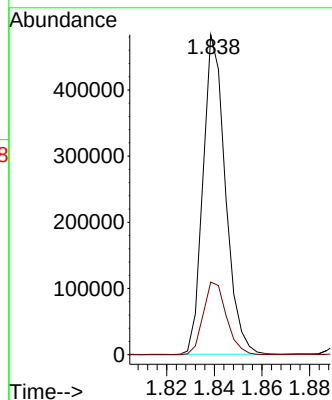
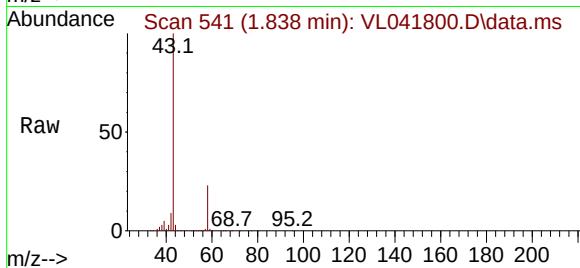
C0AC1

Tgt Ion: 43 Resp: 315433

Ion Ratio Lower Upper

43 100

58 23.8 19.7 29.5



#16

1,3-Butadiene

Concen: 2.680 ppbv

RT: 1.605 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL041800.D

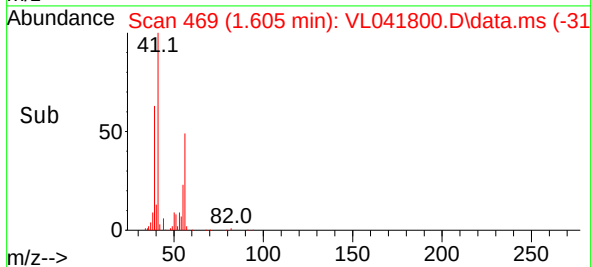
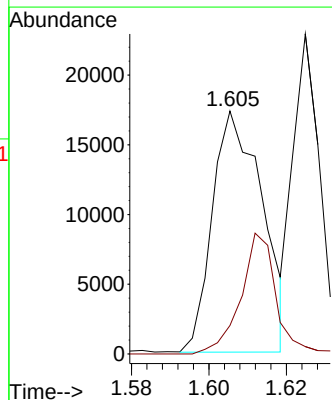
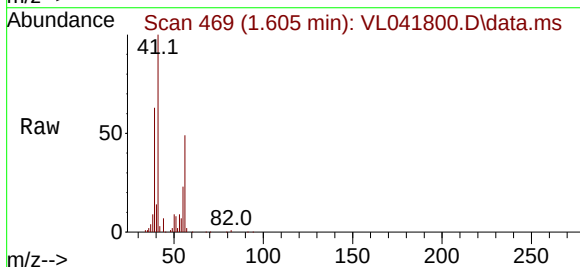
Acq: 18 Dec 2024 18:50

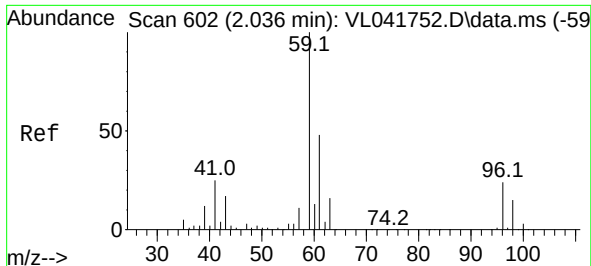
Tgt Ion: 39 Resp: 15495

Ion Ratio Lower Upper

39 100

54 37.5 58.4 87.6#





#17

tert-Butyl alcohol

Concen: 1.065 ppbv

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

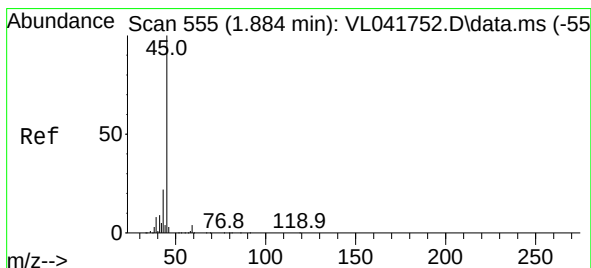
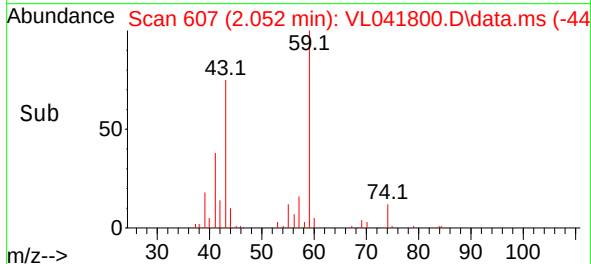
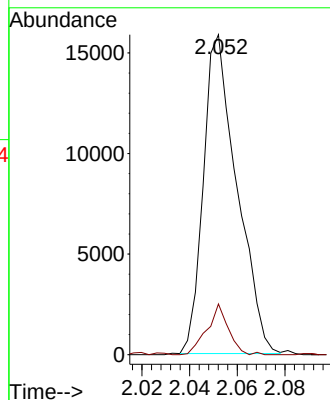
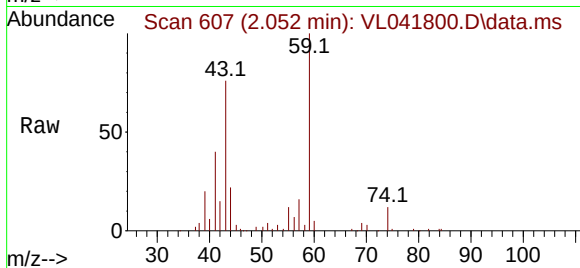
C0AC1

Tgt Ion: 59 Resp: 15513

Ion Ratio Lower Upper

59 100

57 10.7 8.6 13.0



#19

Isopropyl Alcohol

Concen: 4.897 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.009 min

Lab File: VL041800.D

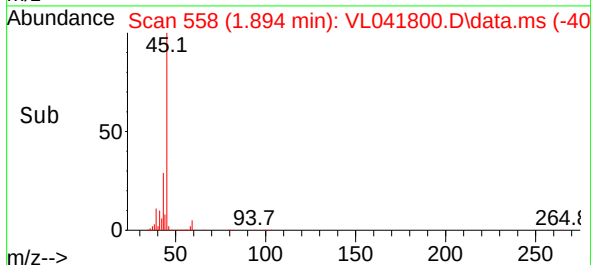
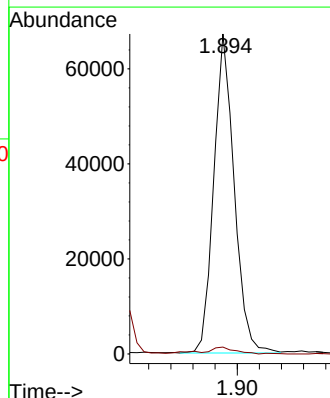
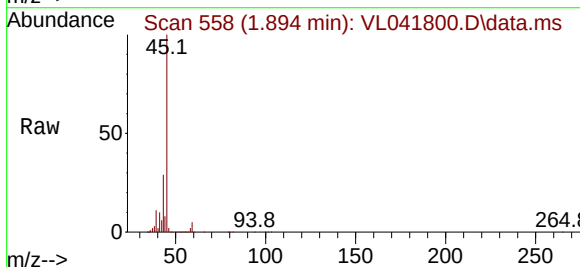
Acq: 18 Dec 2024 18:50

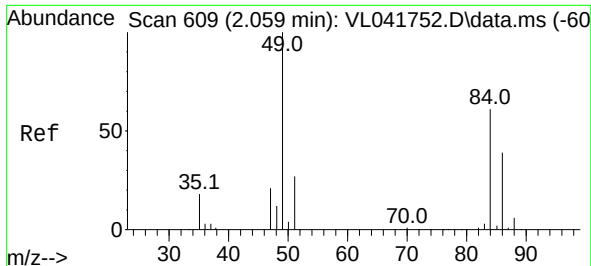
Tgt Ion: 45 Resp: 43147

Ion Ratio Lower Upper

45 100

58 172.8 33.3 49.9#





#20

Methylene Chloride

Concen: 1.668 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_1

ClientSampleId :

C0AC1

Tgt Ion: 84 Resp: 6983

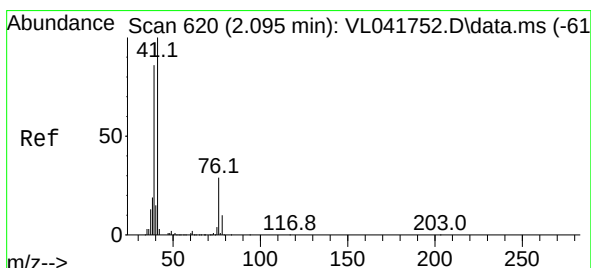
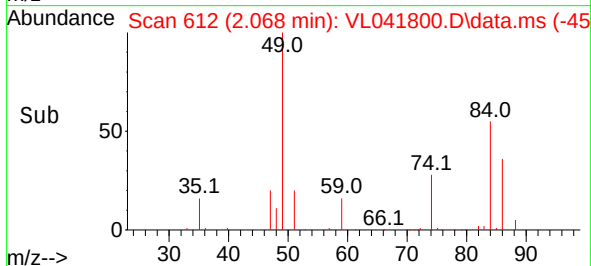
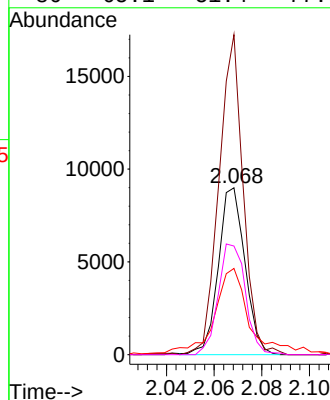
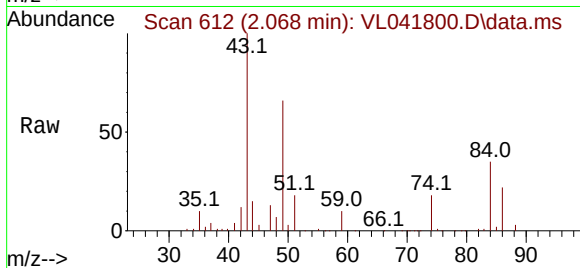
Ion Ratio Lower Upper

84 100

49 191.7 132.6 198.8

51 47.4 37.6 56.4

86 65.1 51.4 77.0



#21

Allyl Chloride

Concen: 0.368 ppbv

RT: 2.081 min Scan# 616

Delta R.T. -0.013 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

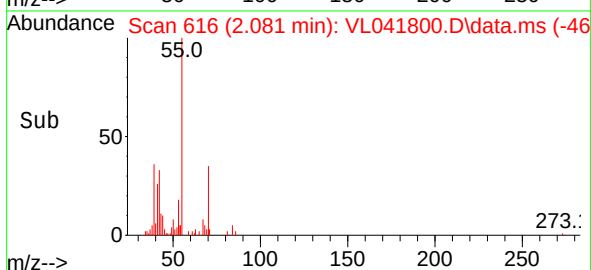
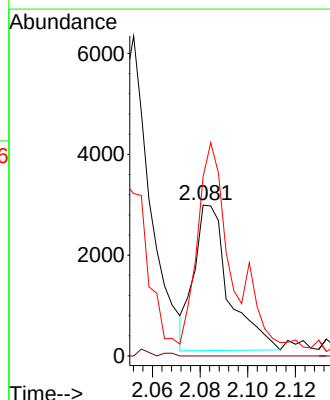
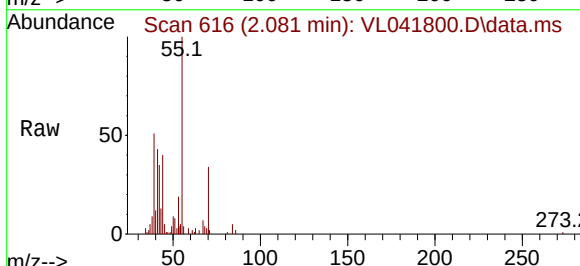
Tgt Ion: 41 Resp: 2931

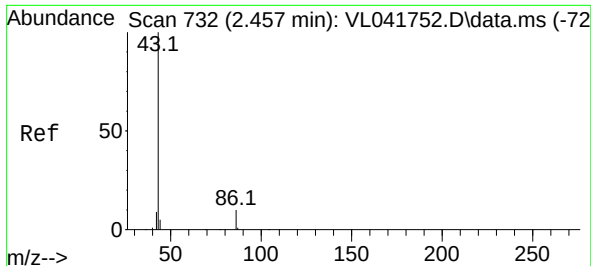
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

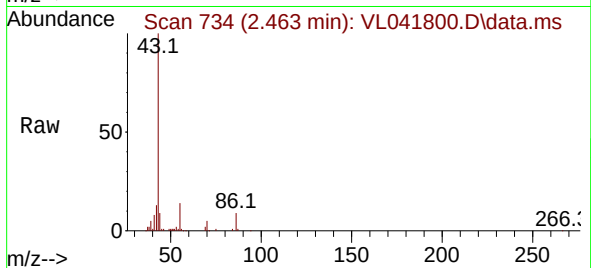
39 138.5 69.2 103.8#





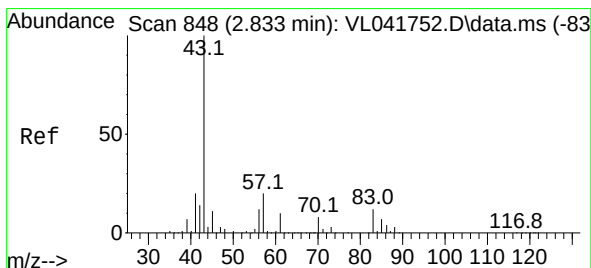
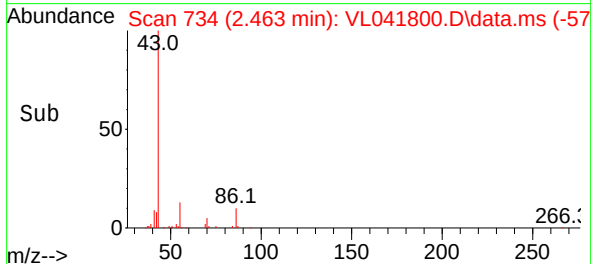
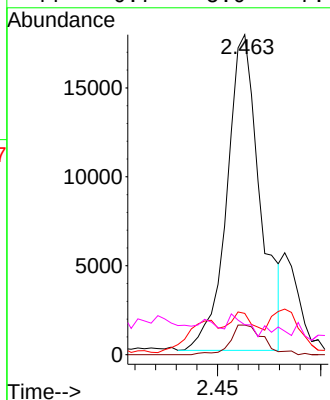
#23
Vinyl Acetate
Concen: 2.900 ppbv
RT: 2.463 min Scan# 741
Delta R.T. 0.006 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Instrument :
MSVOA_1
ClientSampleId :
C0AC1



Tgt Ion: 43 Resp: 19772

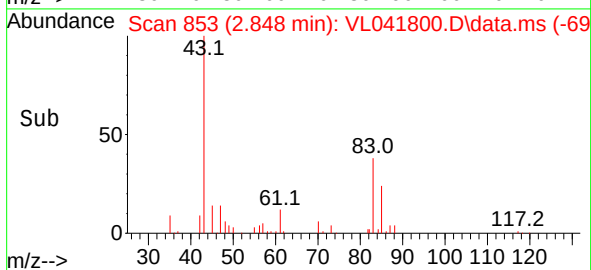
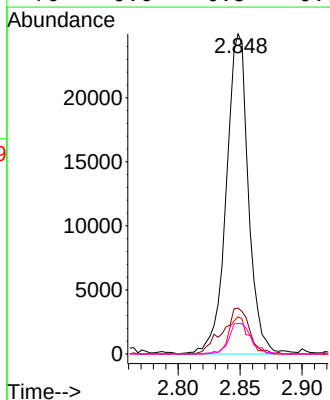
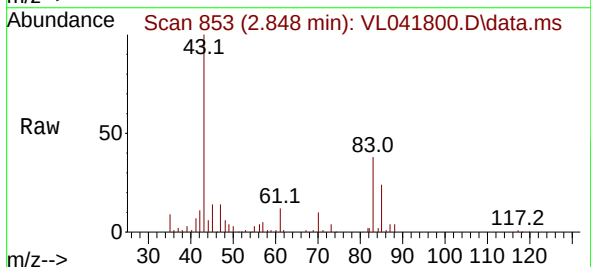
Ion	Ratio	Lower	Upper
43	100		
86	9.4	6.6	10.0
42	9.9	8.2	12.2
44	0.7	5.0	7.4

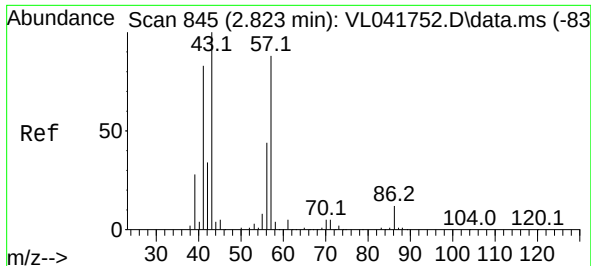


#25
Ethyl Acetate
Concen: 1.133 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 43 Resp: 30957

Ion	Ratio	Lower	Upper
43	100		
45	17.4	8.1	12.1
61	10.3	7.0	10.6
70	9.6	6.5	9.7

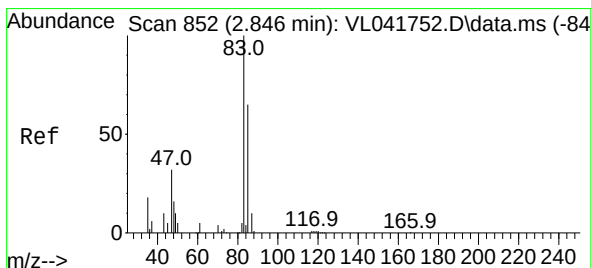
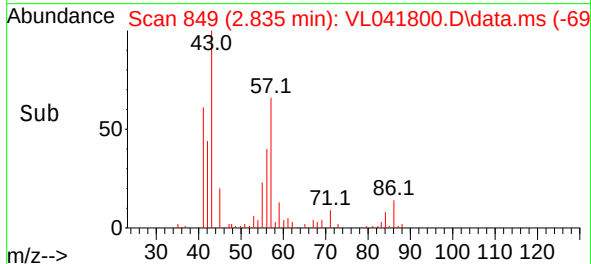
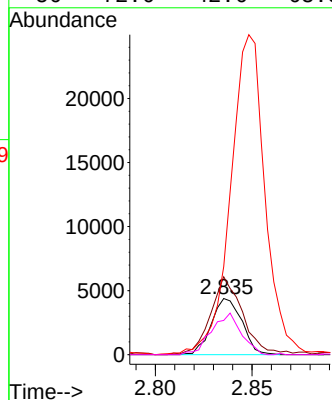
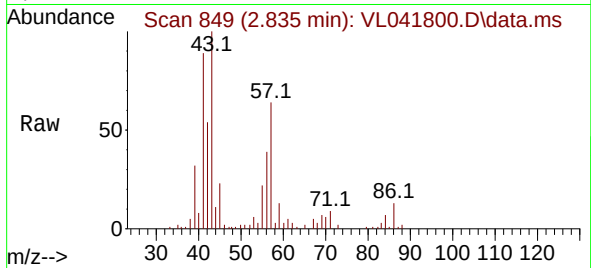




#26
Hexane
Concen: 0.464 ppbv
RT: 2.835 min Scan# 845
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

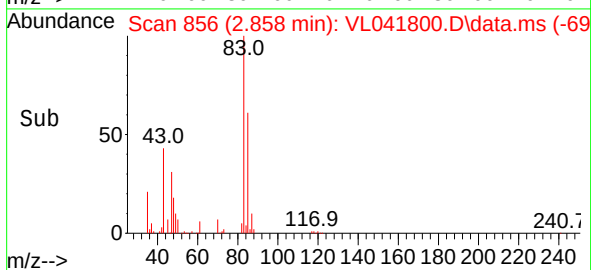
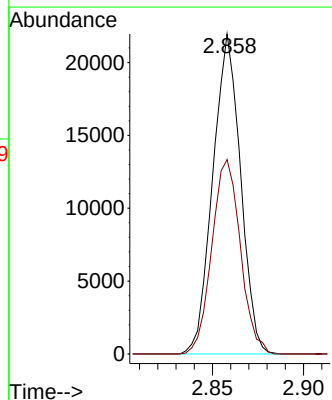
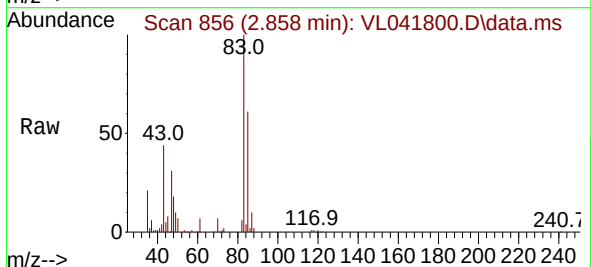
Instrument :
MSVOA_1
ClientSampleId :
C0AC1

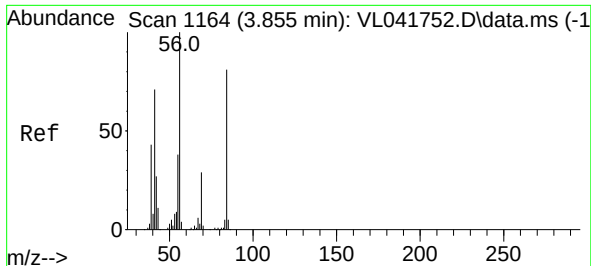
Tgt Ion: 57 Resp: 4807
Ion Ratio Lower Upper
57 100
41 151.2 79.6 119.4#
43 650.5 211.0 316.6#
56 72.6 42.6 63.8#



#29
Chloroform
Concen: 1.469 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 83 Resp: 23212
Ion Ratio Lower Upper
83 100
85 60.8 51.8 77.6





#30

Cyclohexane

Concen: 0.073 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

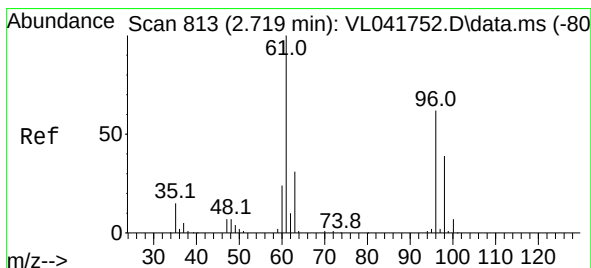
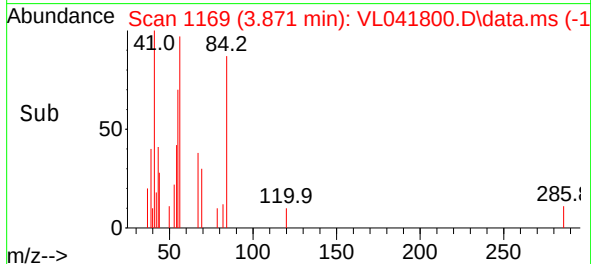
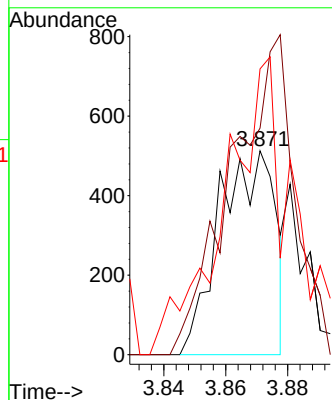
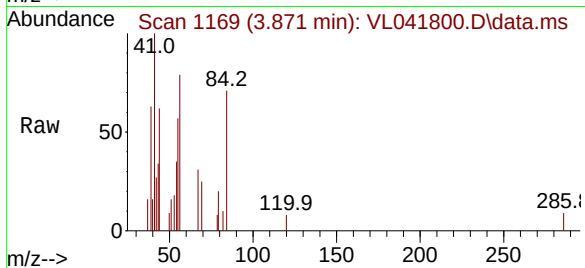
Tgt Ion: 84 Resp: 644

Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 0.0 74.0 111.0#



#31

cis-1,2-Dichloroethene

Concen: 0.298 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.129 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

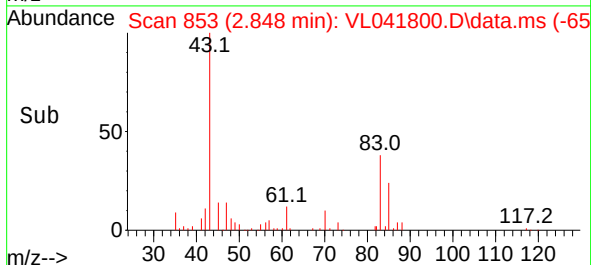
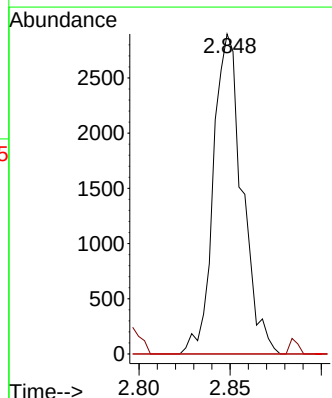
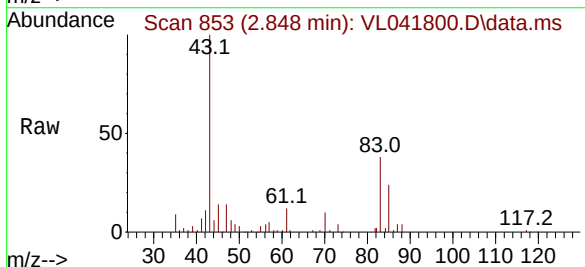
Tgt Ion: 61 Resp: 3196

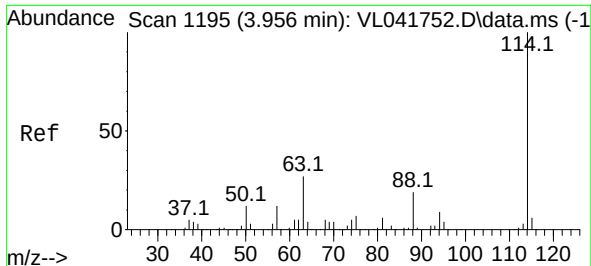
Ion Ratio Lower Upper

61 100

96 0.0 49.7 74.5#

98 0.0 30.8 46.2#

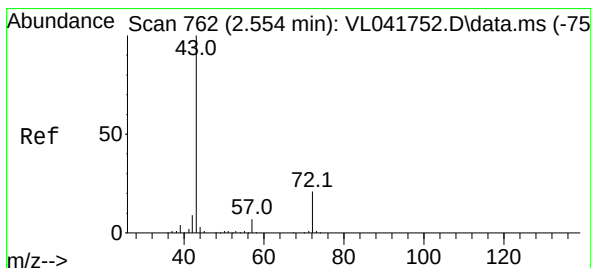
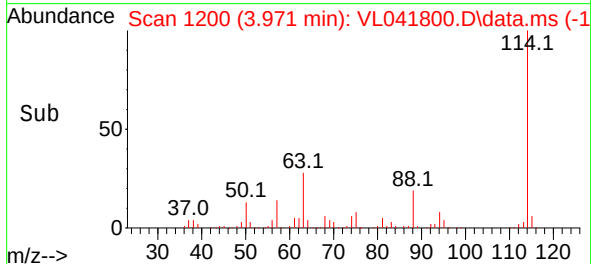
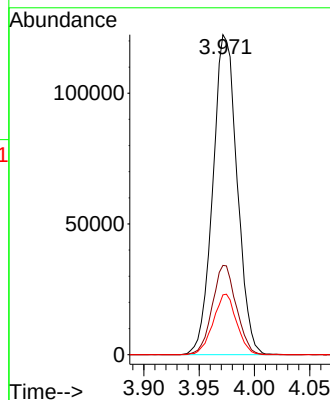
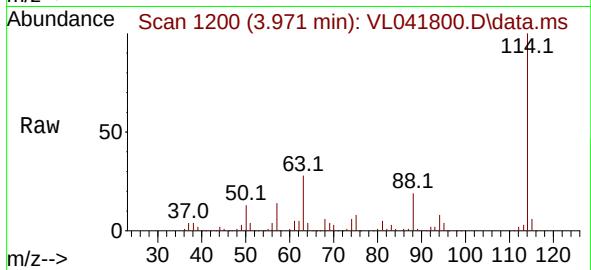




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 1195
Delta R.T. 0.016 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

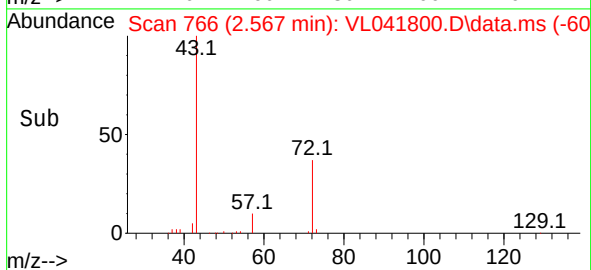
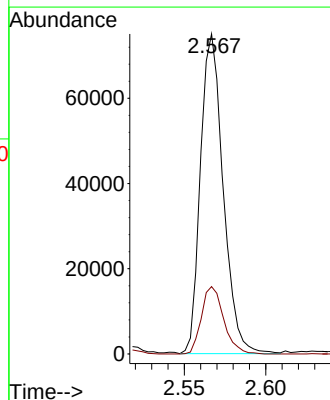
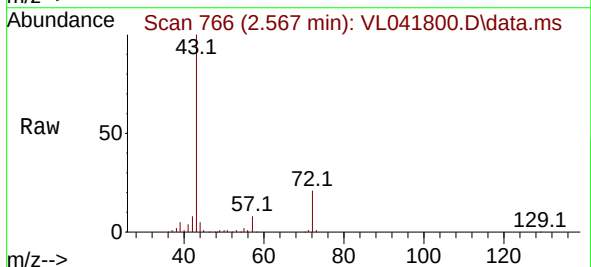
Instrument :
MSVOA_L
ClientSampleId :
C0AC1

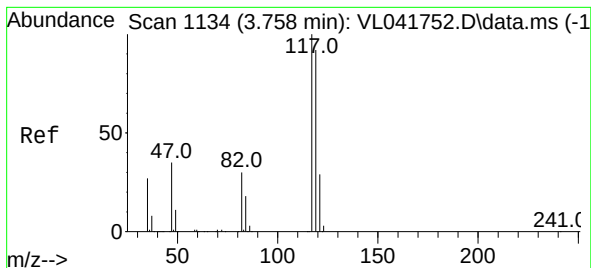
Tgt Ion:114 Resp: 186655
Ion Ratio Lower Upper
114 100
63 27.7 21.8 32.8
88 18.3 14.8 22.2



#34
2-Butanone
Concen: 4.836 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.012 min
Lab File: VL041800.D
Acq: 18 Dec 2024 18:50

Tgt Ion: 43 Resp: 72623
Ion Ratio Lower Upper
43 100
72 20.6 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.035 ppbv

RT: 3.777 min Scan# 1114

Delta R.T. 0.019 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_1

ClientSampleId :

C0AC1

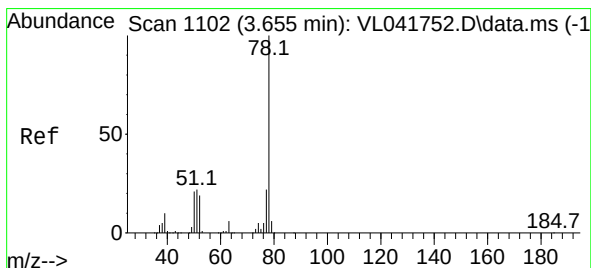
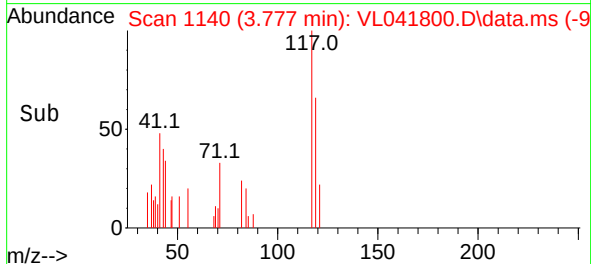
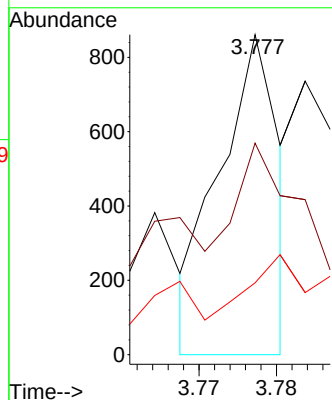
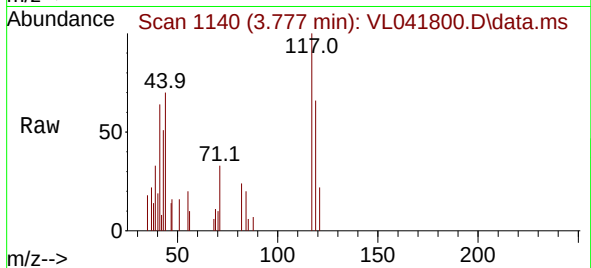
Tgt Ion:117 Resp: 464

Ion Ratio Lower Upper

117 100

119 31.1 73.7 110.5#

121 0.0 23.0 34.4#



#36

Benzene

Concen: 0.800 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

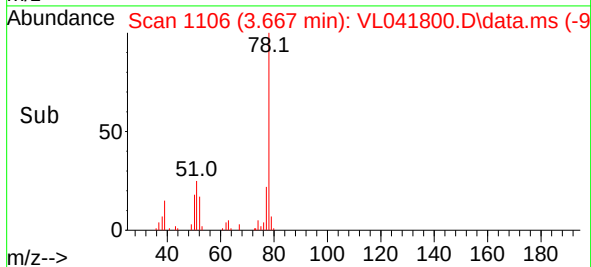
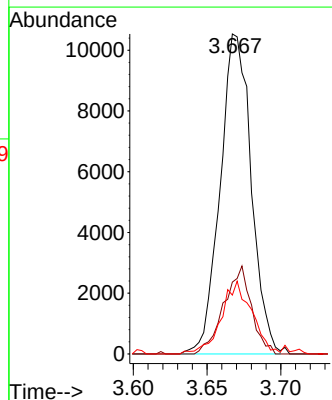
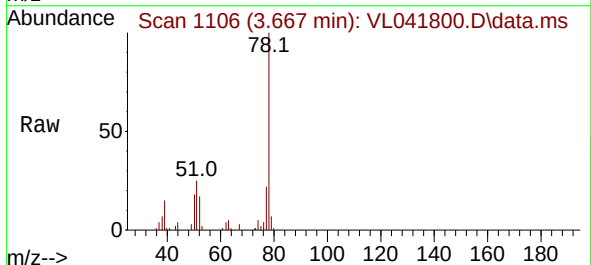
Tgt Ion: 78 Resp: 15442

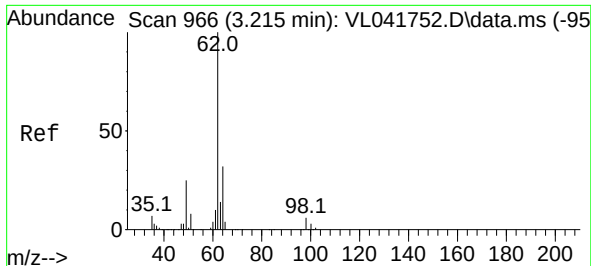
Ion Ratio Lower Upper

78 100

77 22.4 17.8 26.6

50 18.4 17.2 25.8





#37

1,2-Dichloroethane

Concen: 0.031 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_1

ClientSampleId :

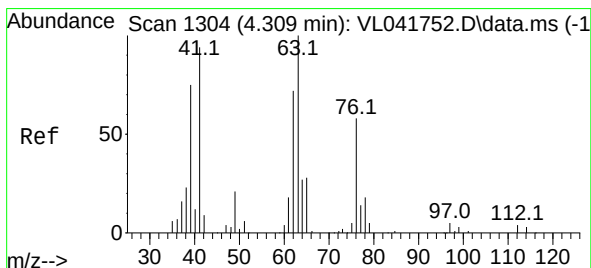
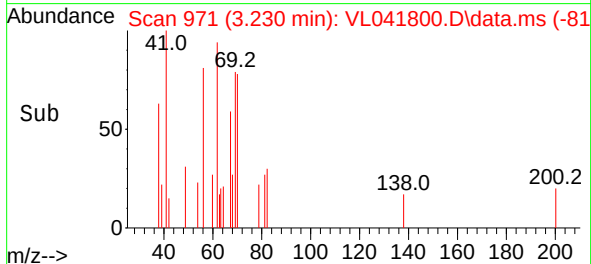
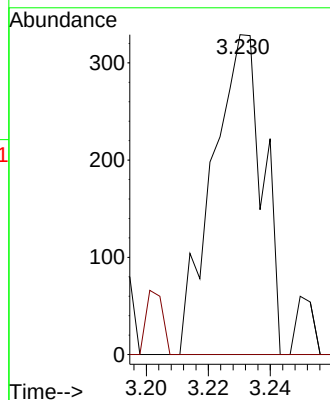
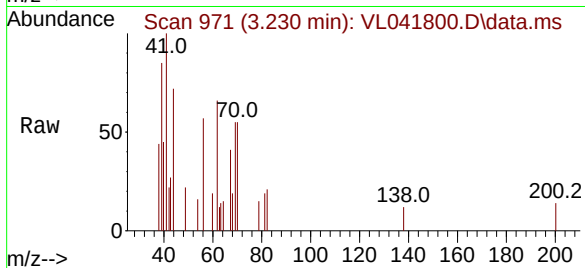
C0AC1

Tgt Ion: 62 Resp: 370

Ion Ratio Lower Upper

62 100

98 6.5 4.7 7.1



#39

1,2-Dichloropropane

Concen: 7.386 ppbv

RT: 3.971 min Scan# 1200

Delta R.T. -0.337 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

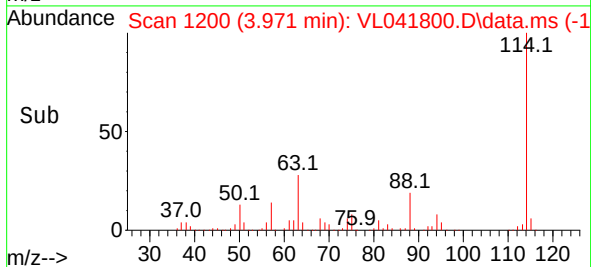
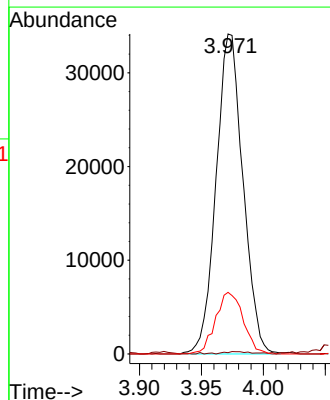
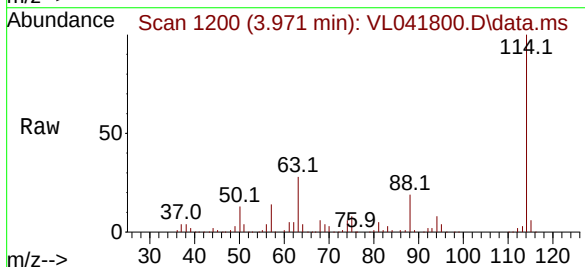
Tgt Ion: 63 Resp: 51579

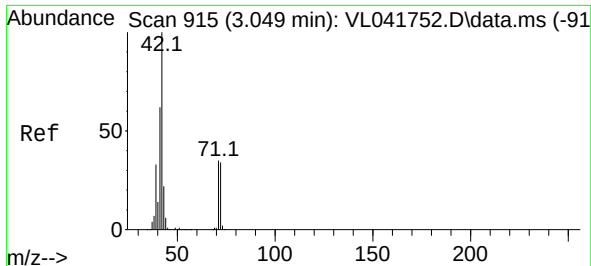
Ion Ratio Lower Upper

63 100

41 0.4 75.3 112.9#

62 19.3 57.3 85.9#





#41

Tetrahydrofuran

Concen: 0.050 ppbv

RT: 3.075 min Scan# 91

Delta R.T. 0.025 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

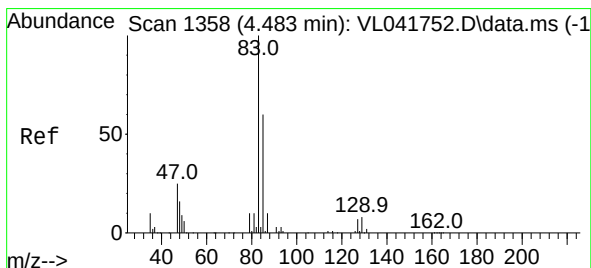
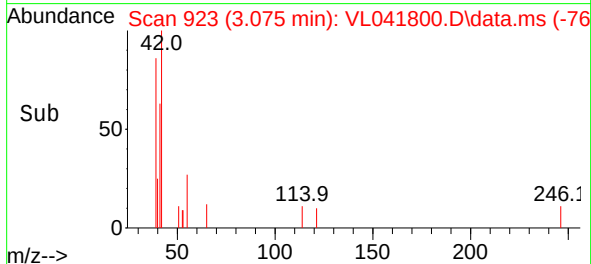
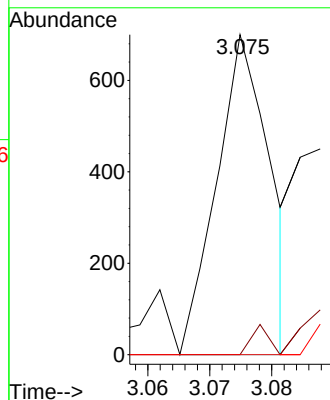
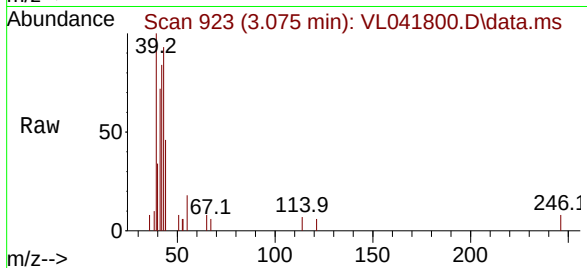
Tgt Ion: 42 Resp: 418

Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

71 0.0 28.4 42.6#



#42

Bromodichloromethane

Concen: 0.146 ppbv

RT: 4.499 min Scan# 1363

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

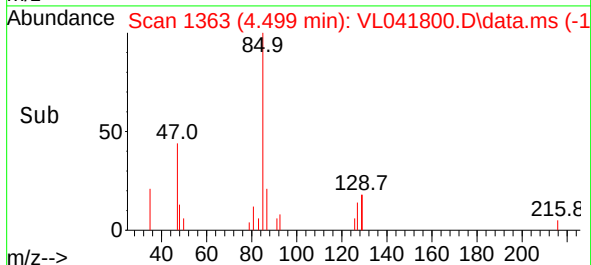
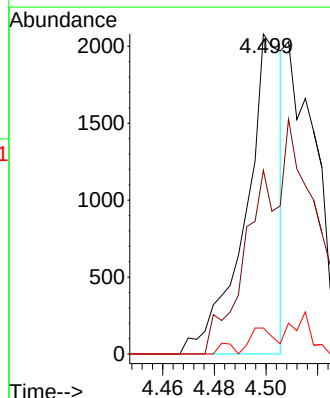
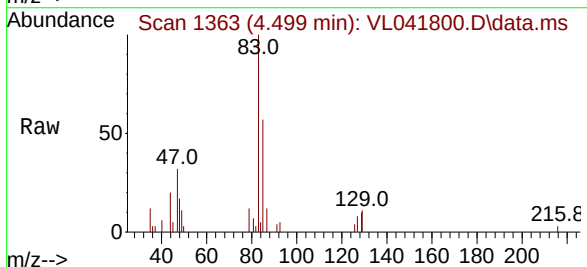
Tgt Ion: 83 Resp: 2015

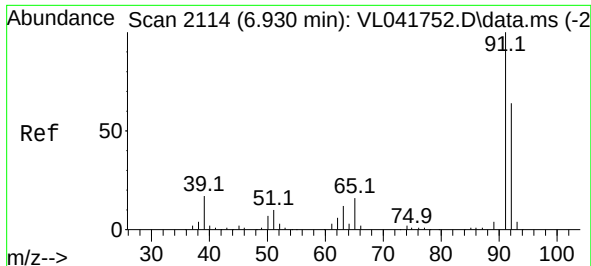
Ion Ratio Lower Upper

83 100

85 57.4 48.0 72.0

127 8.1 5.8 8.8





#53

Toluene

Concen: 1.269 ppbv

RT: 6.949 min Scan# 2114

Delta R.T. 0.019 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

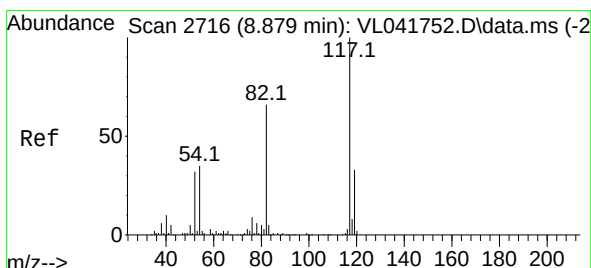
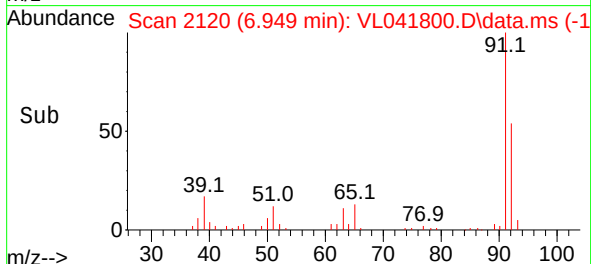
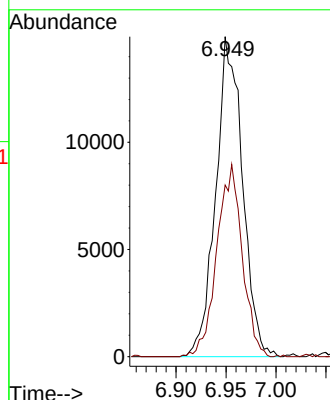
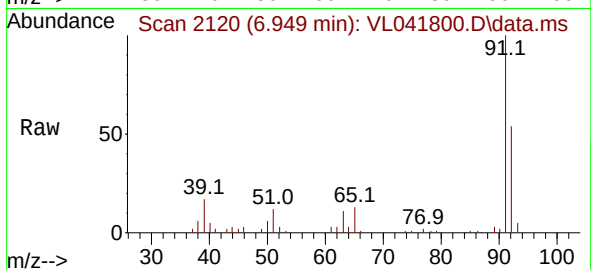
C0AC1

Tgt Ion: 91 Resp: 27768

Ion Ratio Lower Upper

91 100

92 57.1 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.894 min Scan# 2721

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

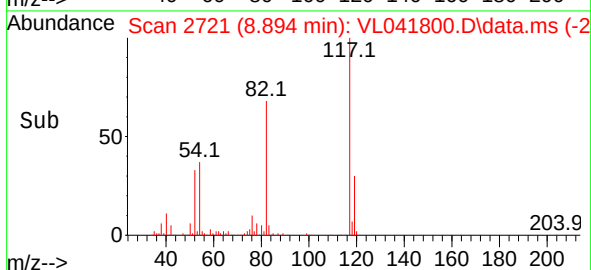
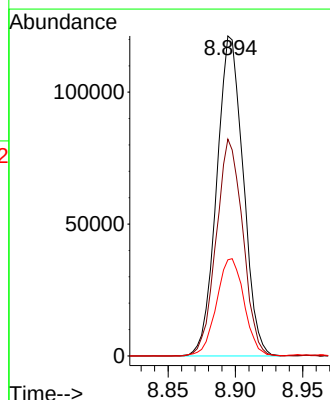
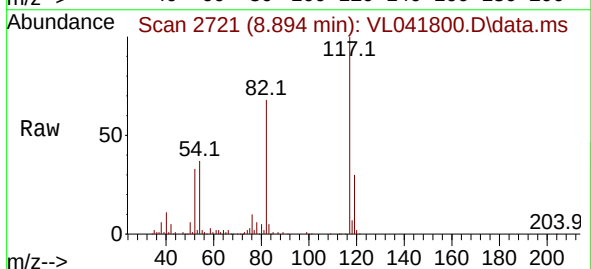
Tgt Ion: 117 Resp: 166096

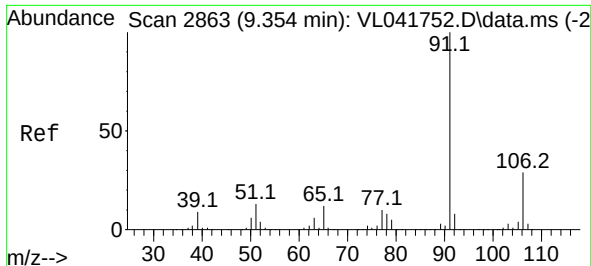
Ion Ratio Lower Upper

117 100

82 67.9 53.8 80.8

119 31.7 26.7 40.1





#58

Ethyl Benzene

Concen: 0.123 ppbv

RT: 9.373 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_1

ClientSampleId :

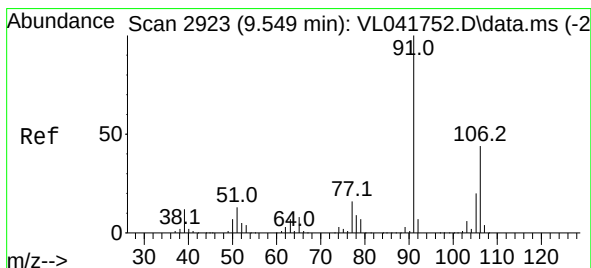
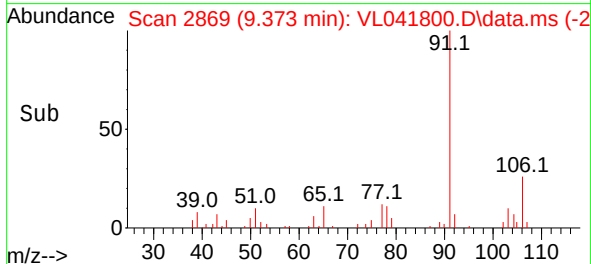
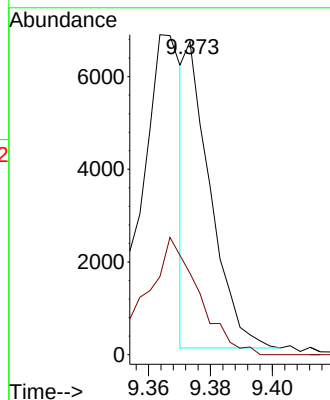
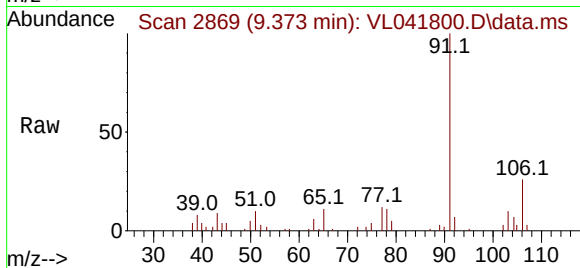
C0AC1

Tgt Ion: 91 Resp: 3690

Ion Ratio Lower Upper

91 100

106 26.6 23.5 35.3



#59

m/p-Xylene

Concen: 1.645 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. -0.004 min

Lab File: VL041800.D

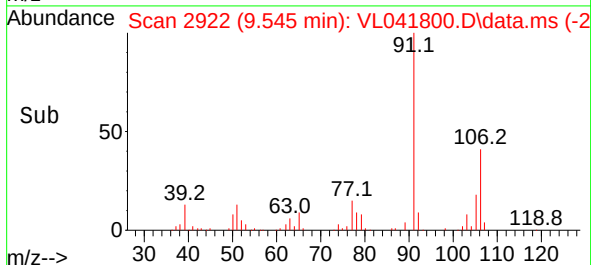
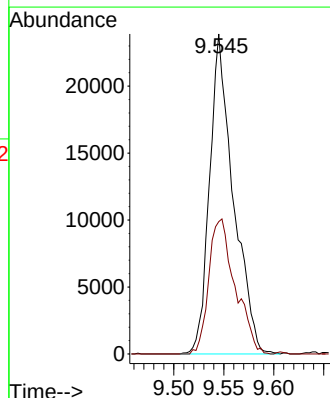
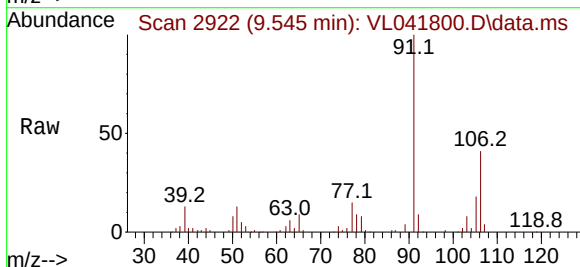
Acq: 18 Dec 2024 18:50

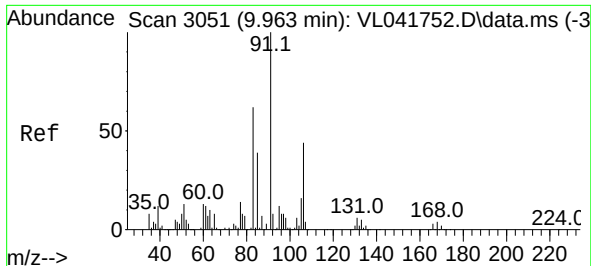
Tgt Ion: 91 Resp: 39541

Ion Ratio Lower Upper

91 100

106 46.9 0.0 0.0#





#60

o-Xylene

Concen: 0.634 ppbv

RT: 9.975 min Scan# 3051

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_1

ClientSampleId :

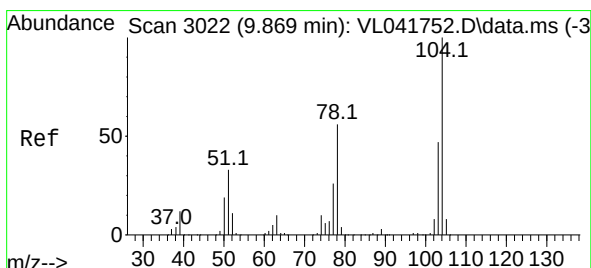
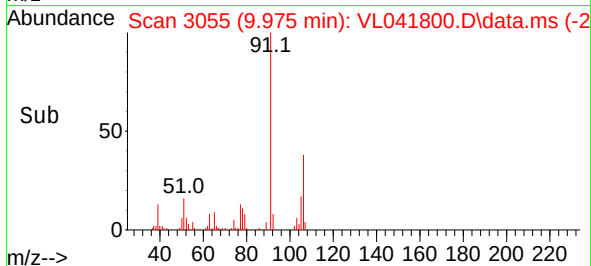
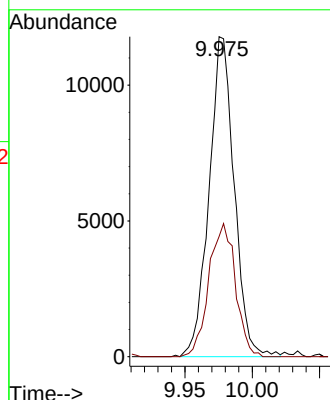
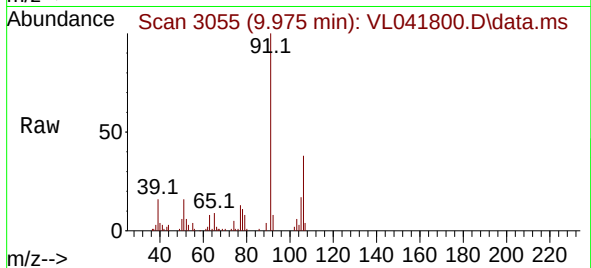
C0AC1

Tgt Ion: 91 Resp: 15281

Ion Ratio Lower Upper

91 100

106 44.0 21.1 63.4



#61

Styrene

Concen: 0.435 ppbv

RT: 9.885 min Scan# 3027

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

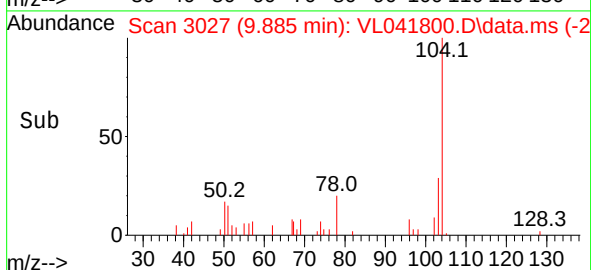
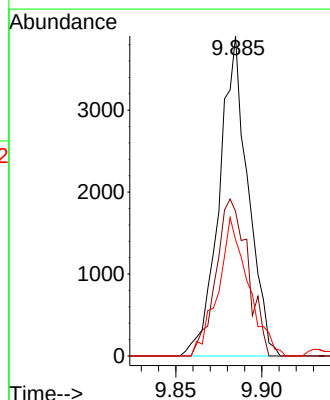
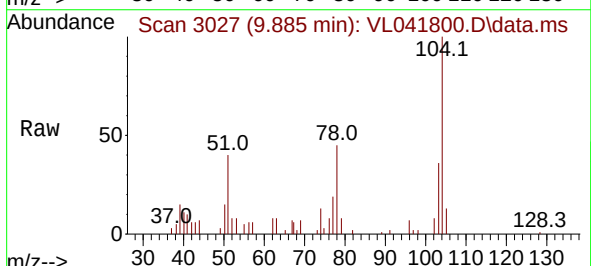
Tgt Ion: 104 Resp: 4539

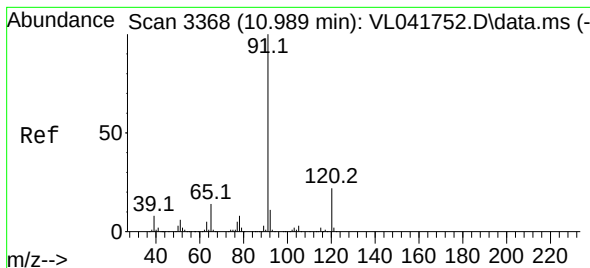
Ion Ratio Lower Upper

104 100

78 54.2 43.8 65.6

103 45.3 37.8 56.6





#64

n-propylbenzene

Concen: 0.139 ppbv

RT: 11.005 min Scan# 341

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

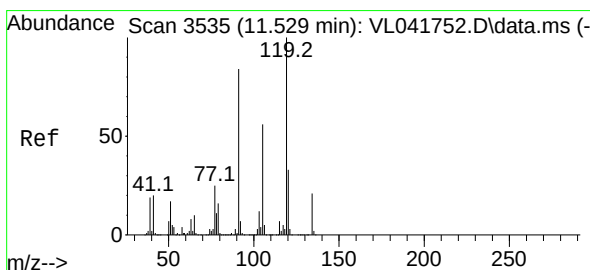
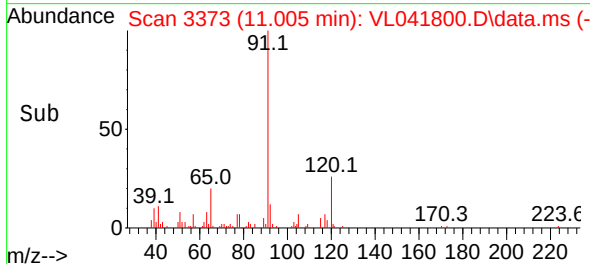
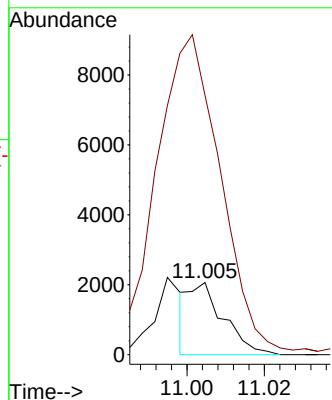
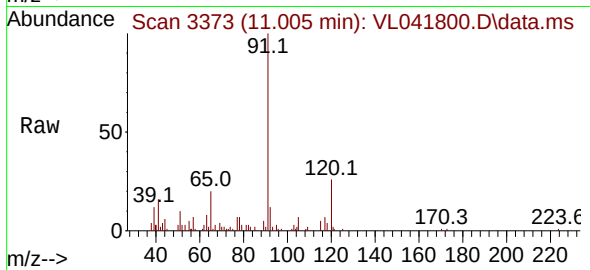
C0AC1

Tgt Ion:120 Resp: 1276

Ion Ratio Lower Upper

120 100

91 861.8 387.3 580.9#



#65

tert-Butylbenzene

Concen: 0.259 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. 0.019 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

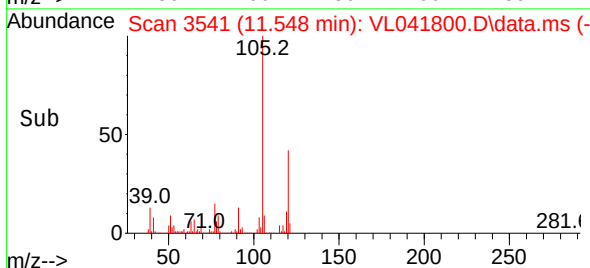
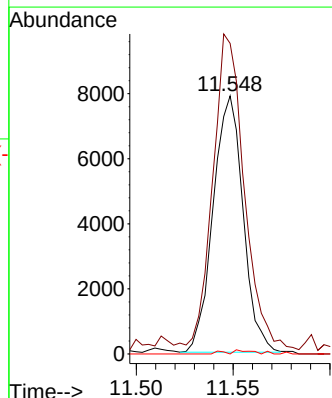
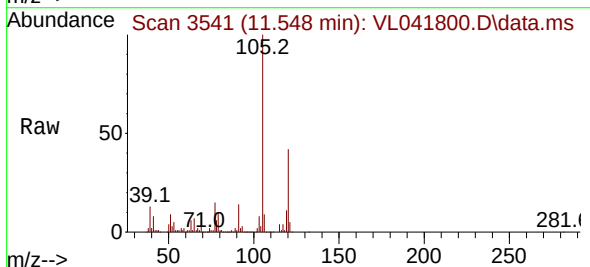
Tgt Ion:119 Resp: 8469

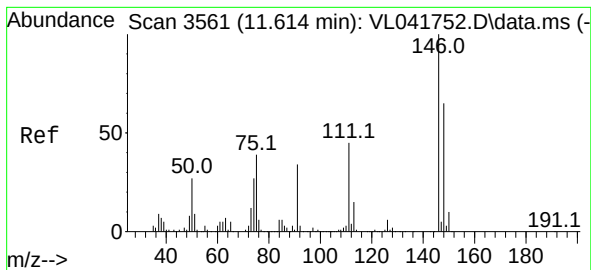
Ion Ratio Lower Upper

119 100

91 137.3 67.0 100.4#

134 1.4 16.5 24.7#





#66

Benzyl Chloride

Concen: 3.795 ppbv

RT: 11.545 min Scan# 3561

Delta R.T. -0.068 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

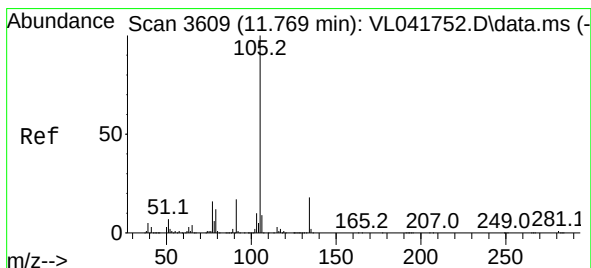
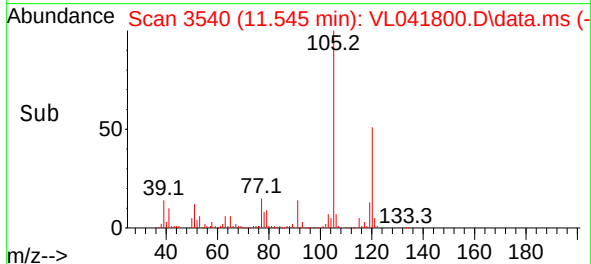
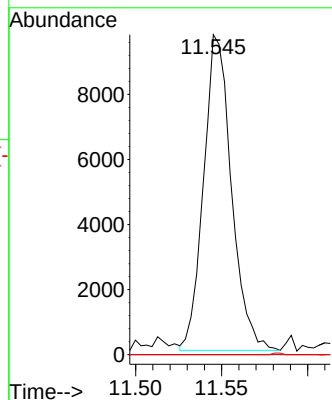
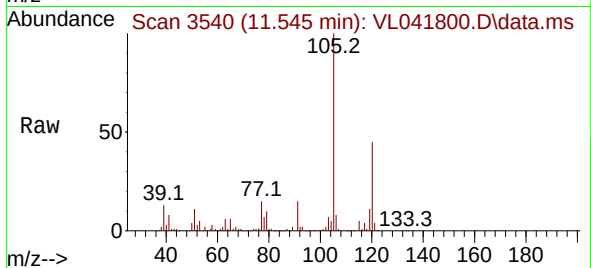
Tgt Ion: 91 Resp: 10925

Ion Ratio Lower Upper

91 100

126 0.7 13.9 20.9#

128 0.2 4.4 6.6#



#67

sec-Butylbenzene

Concen: 0.216 ppbv

RT: 11.891 min Scan# 3647

Delta R.T. 0.123 min

Lab File: VL041800.D

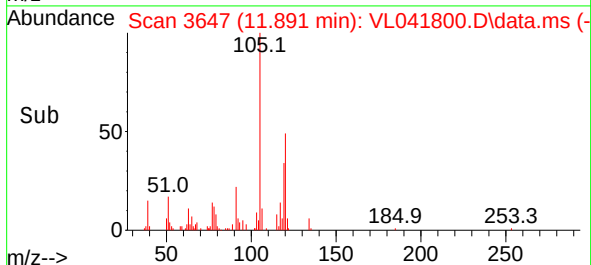
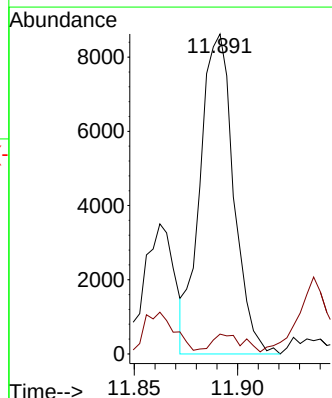
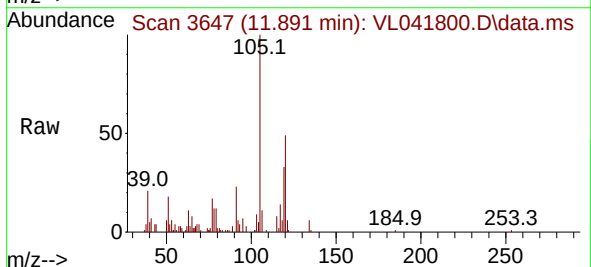
Acq: 18 Dec 2024 18:50

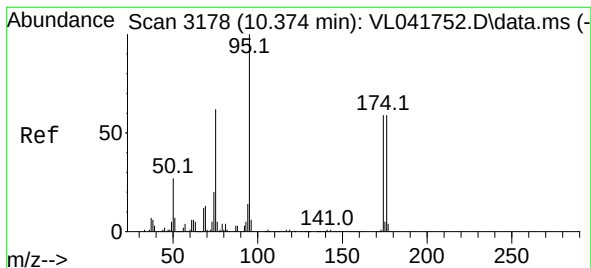
Tgt Ion: 105 Resp: 9751

Ion Ratio Lower Upper

105 100

134 21.5 14.5 21.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.870 ppbv

RT: 10.390 min Scan# 3178

Delta R.T. 0.016 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

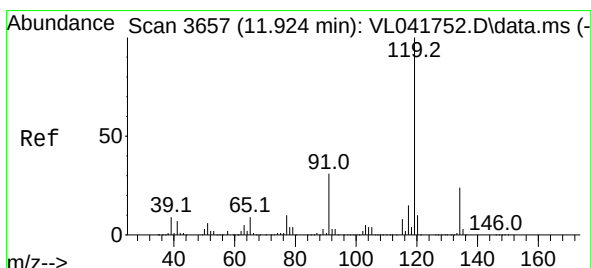
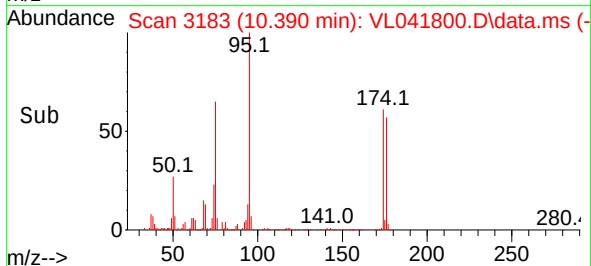
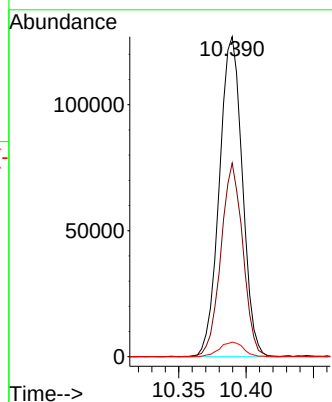
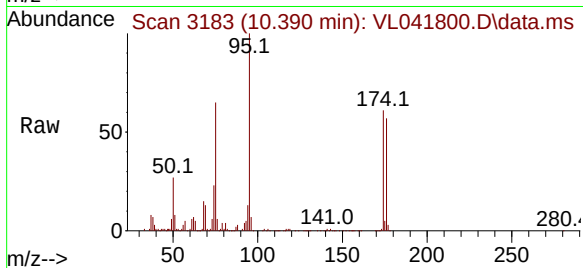
Tgt Ion: 95 Resp: 150452

Ion Ratio Lower Upper

95 100

174 58.0 47.6 71.4

175 4.8 3.7 5.5



#69

p-Isopropyltoluene

Concen: 0.182 ppbv

RT: 11.937 min Scan# 3661

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

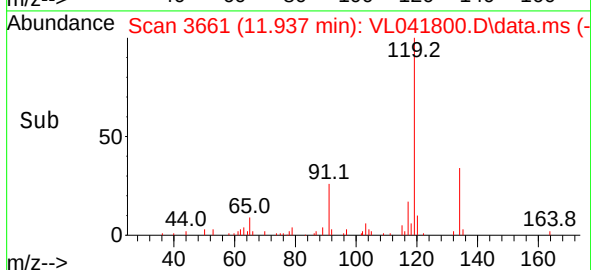
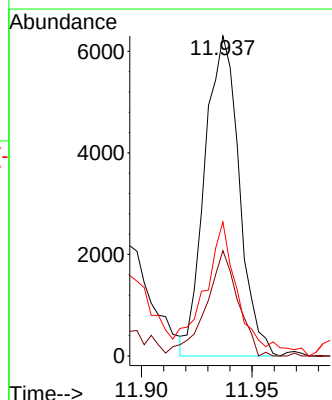
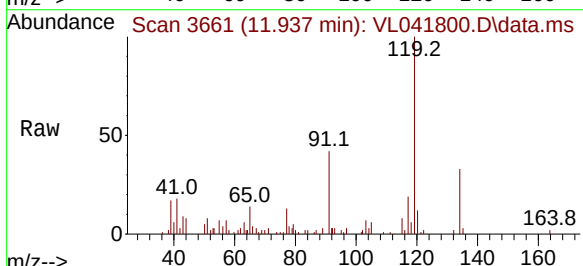
Tgt Ion: 119 Resp: 6800

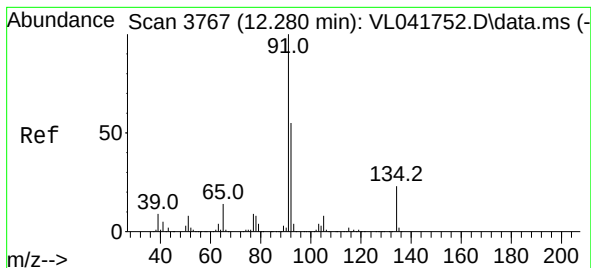
Ion Ratio Lower Upper

119 100

134 30.8 19.6 29.4#

91 39.3 24.4 36.6#





#70

n-Butylbenzene

Concen: 0.120 ppbv

RT: 12.358 min Scan# 31

Delta R.T. 0.077 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

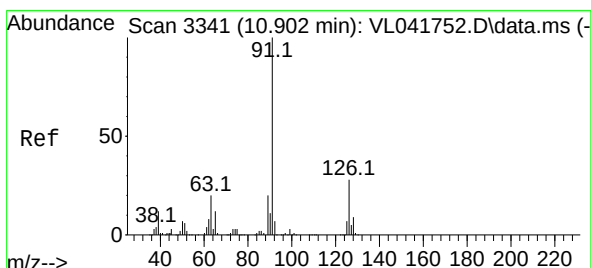
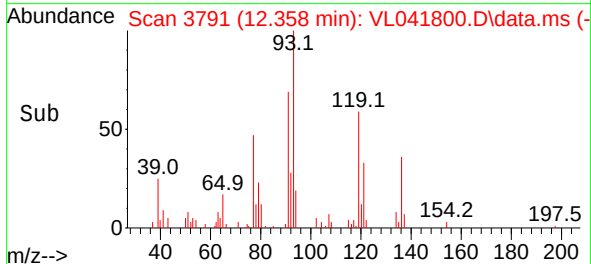
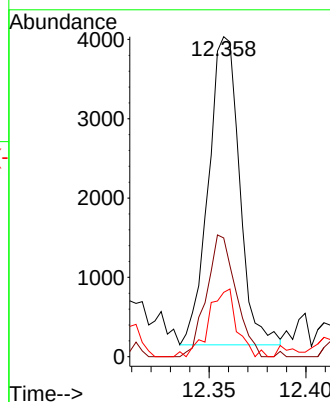
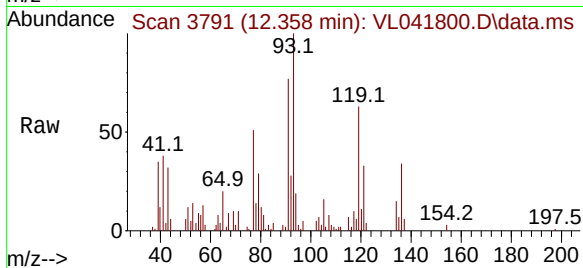
Tgt Ion: 91 Resp: 4337

Ion Ratio Lower Upper

91 100

92 37.5 43.2 64.8#

134 19.9 18.2 27.4



#71

2-Chlorotoluene

Concen: 0.926 ppbv

RT: 10.869 min Scan# 3331

Delta R.T. -0.033 min

Lab File: VL041800.D

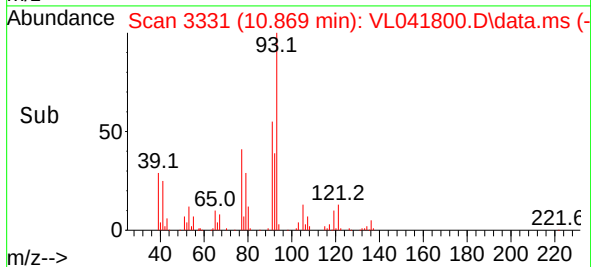
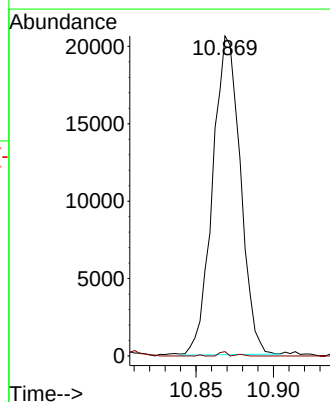
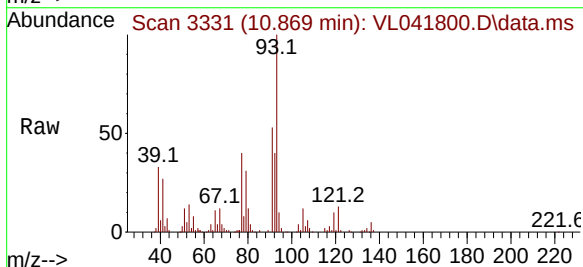
Acq: 18 Dec 2024 18:50

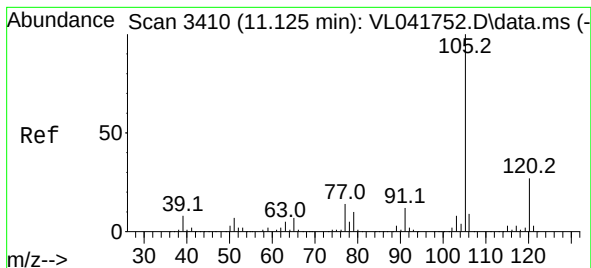
Tgt Ion: 91 Resp: 25613

Ion Ratio Lower Upper

91 100

126 0.6 11.6 46.4#





#72

4-Ethyltoluene

Concen: 0.534 ppbv

RT: 11.137 min Scan# 3410

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_L

ClientSampleId :

C0AC1

Tgt Ion:105 Resp: 15210

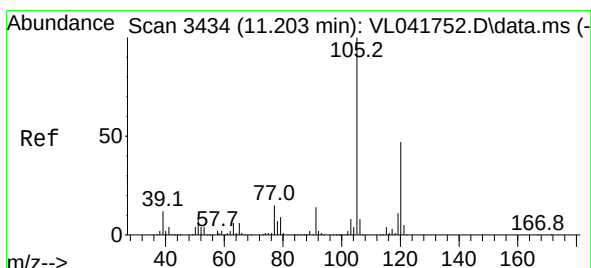
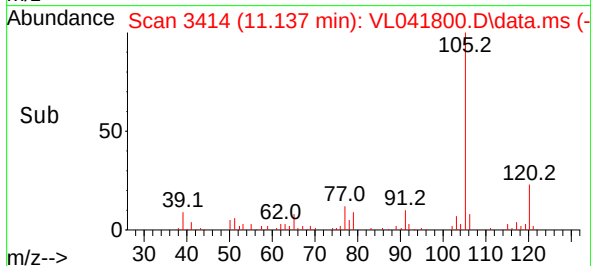
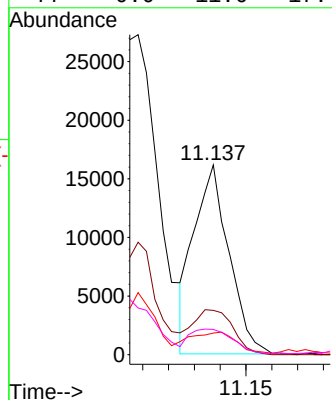
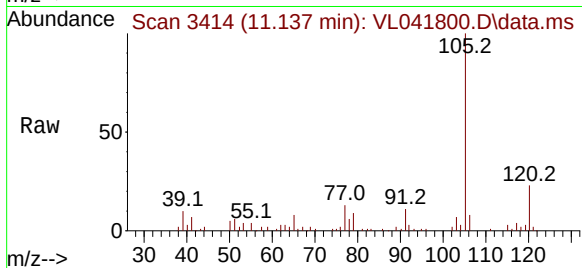
Ion Ratio Lower Upper

105 100

120 0.0 23.3 34.9#

91 0.0 10.9 16.3#

77 0.0 11.6 17.4#



#73

1,3,5-Trimethylbenzene

Concen: 0.673 ppbv

RT: 11.215 min Scan# 3438

Delta R.T. 0.012 min

Lab File: VL041800.D

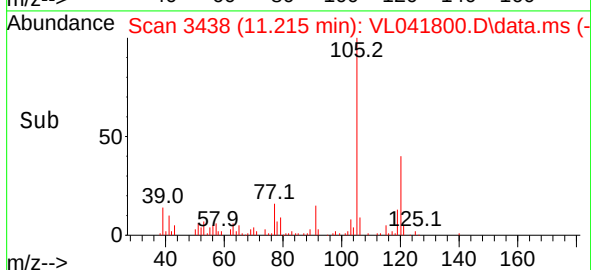
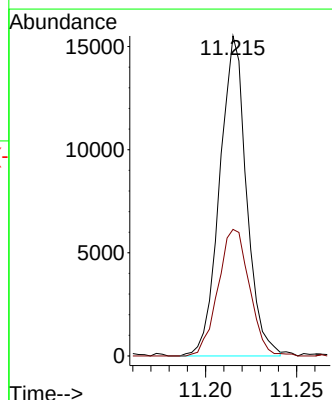
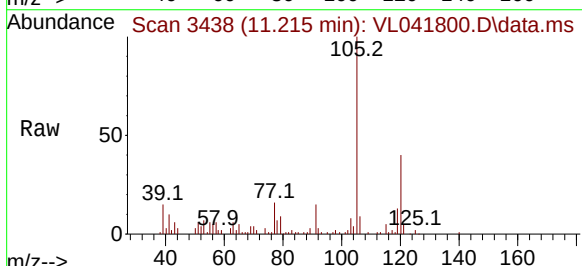
Acq: 18 Dec 2024 18:50

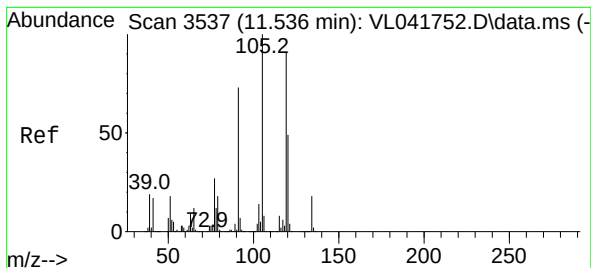
Tgt Ion:105 Resp: 15880

Ion Ratio Lower Upper

105 100

120 39.6 37.4 56.2





#74

1,2,4-Trimethylbenzene

Concen: 2.896 ppbv

RT: 11.548 min Scan# 3537

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

Instrument :

MSVOA_1

ClientSampleId :

C0AC1

Tgt Ion:105 Resp: 73547

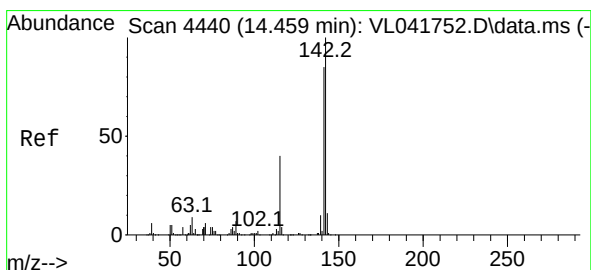
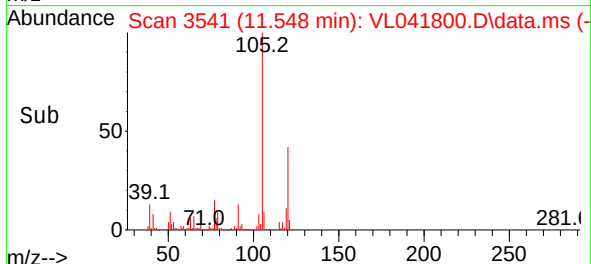
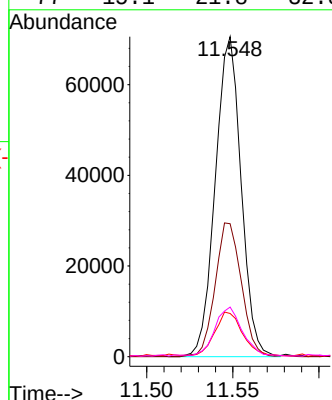
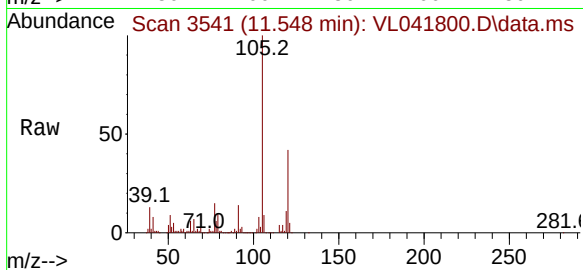
Ion Ratio Lower Upper

105 100

120 41.5 39.0 58.4

91 13.2 58.1 87.1#

77 15.1 21.8 32.8#



#80

Naphthalene,2-methyl-

Concen: 0.118 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.012 min

Lab File: VL041800.D

Acq: 18 Dec 2024 18:50

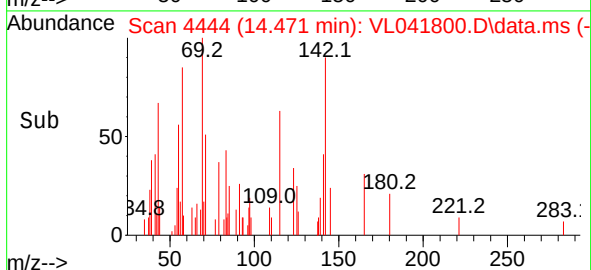
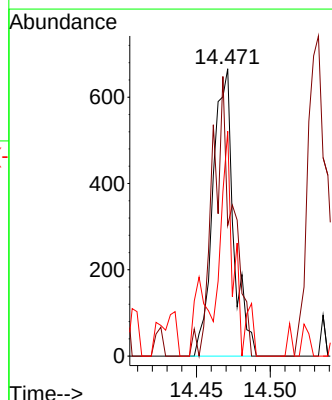
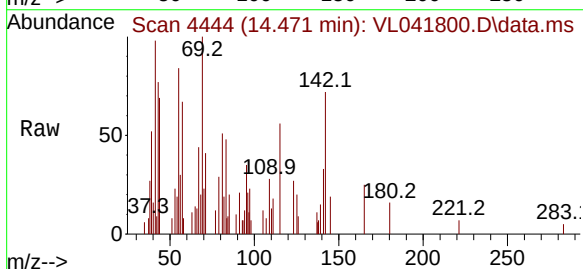
Tgt Ion:142 Resp: 645

Ion Ratio Lower Upper

142 100

141 94.1 68.4 102.6

115 81.9 32.5 48.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041810.D
 Acq On : 19 Dec 2024 00:11
 Operator : SY/MD
 Sample : P5293-03DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC1DL

Quant Time: Dec 19 08:01:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	74135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	177633	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	156162	10.000	ppbv	0.01

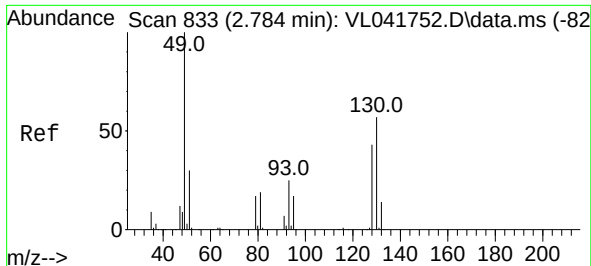
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	138713	10.659	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2899	0.220	ppbv	94
3) Chlorodifluoromethane	1.492	51	6608	0.547	ppbv #	70
4) Chloromethane	1.534	50	4999	0.969	ppbv	93
9) Propene	1.486	41	14442	2.756	ppbv	96
11) Trichlorofluoromethane	1.881	101	1359	0.097	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	349	0.033	ppbv	89
13) Ethanol	1.725	45	1157777	2668.289	ppbv	96
15) Acetone	1.839	43	149341	10.353	ppbv	98
16) 1,3-Butadiene	1.606	39	6313	1.111	ppbv #	63
17) tert-Butyl alcohol	2.046	59	7260	0.507	ppbv #	94
19) Isopropyl Alcohol	1.891	45	20001	2.311	ppbv #	1
20) Methylene Chloride	2.065	84	3482	0.847	ppbv	91
21) Allyl Chloride	2.081	41	847	0.108	ppbv #	1
23) Vinyl Acetate	2.457	43	8527	1.273	ppbv #	93
25) Ethyl Acetate	2.845	43	13015	0.485	ppbv #	87
26) Hexane	2.836	57	2019	0.198	ppbv #	1
28) Methyl tert-Butyl Ether	2.564	73	279	0.034	ppbv #	1
29) Chloroform	2.855	83	10038	0.647	ppbv	94
31) cis-1,2-Dichloroethene	2.842	61	857	0.081	ppbv #	26
34) 2-Butanone	2.564	43	29410	2.058	ppbv	98
36) Benzene	3.667	78	6389	0.348	ppbv	97
39) 1,2-Dichloropropane	3.968	63	50271	7.565	ppbv #	19
42) Bromodichloromethane	4.502	83	1698	0.129	ppbv #	55
53) Toluene	6.946	91	9756	0.468	ppbv	97
58) Ethyl Benzene	9.364	91	3369	0.120	ppbv #	74
59) m/p-Xylene	9.545	91	13654	0.604	ppbv #	100
60) o-Xylene	9.972	91	5359	0.236	ppbv	99
61) Styrene	9.888	104	560	0.057	ppbv #	1
64) n-propylbenzene	10.992	120	781	0.091	ppbv	88
65) tert-Butylbenzene	11.545	119	2994	0.097	ppbv #	50
66) Benzyl Chloride	11.545	91	3520	1.300	ppbv #	67
67) sec-Butylbenzene	11.885	105	3447	0.081	ppbv	94
69) p-Isopropyltoluene	11.934	119	2418	0.069	ppbv #	88
70) n-Butylbenzene	12.355	91	1159	0.034	ppbv #	84
71) 2-Chlorotoluene	10.869	91	9088	0.350	ppbv #	48
72) 4-Ethyltoluene	11.134	105	4673	0.175	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.212	105	4667	0.210	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	22943	0.961	ppbv #	56
80) Naphthalene,2-methyl-	14.465	142	174	0.034	ppbv	90

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

Quant Time: Dec 19 08:01:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

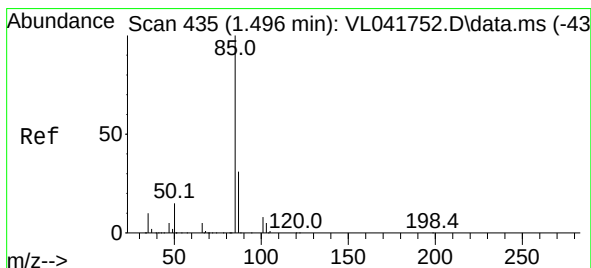
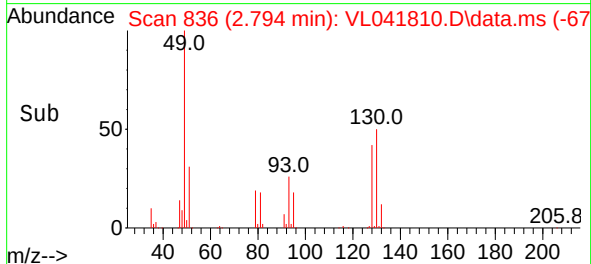
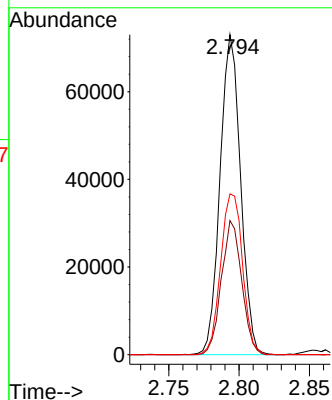
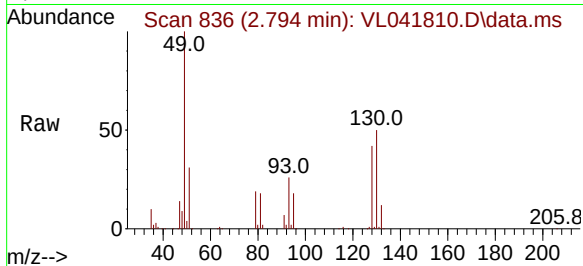




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 836
Delta R.T. 0.010 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

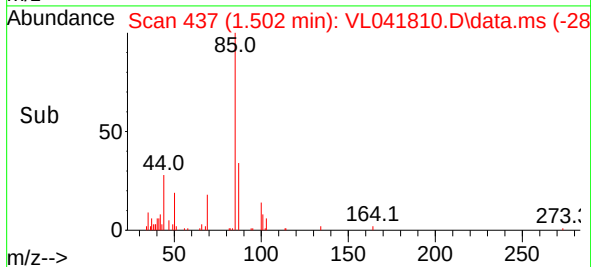
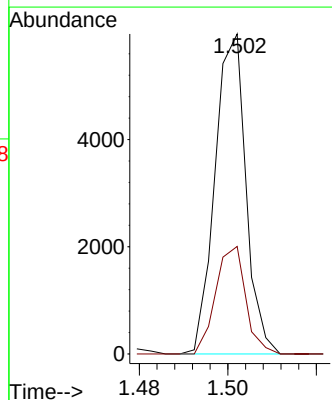
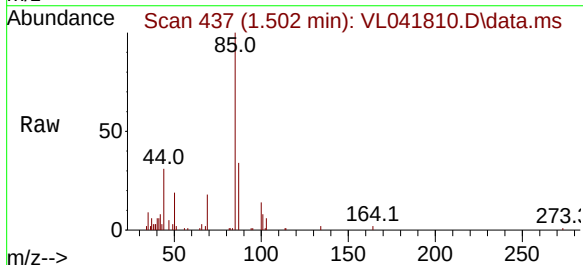
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

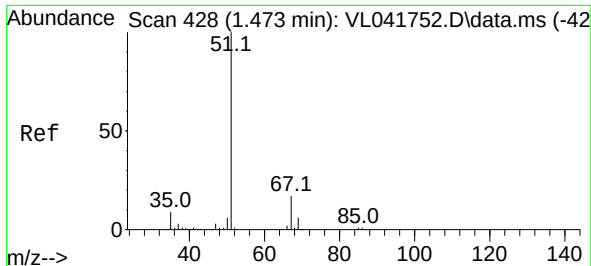
Tgt Ion: 49 Resp: 74135
Ion Ratio Lower Upper
49 100
128 41.4 21.6 64.6
130 53.5 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.220 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 85 Resp: 2899
Ion Ratio Lower Upper
85 100
87 33.6 24.5 36.7

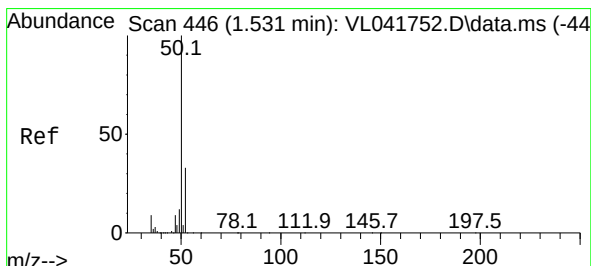
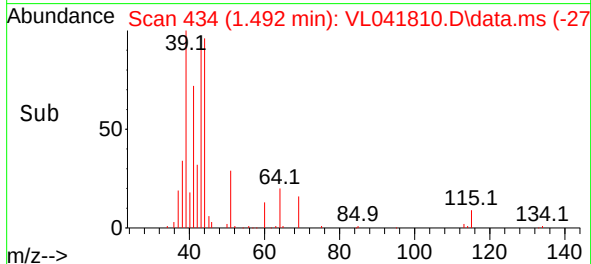
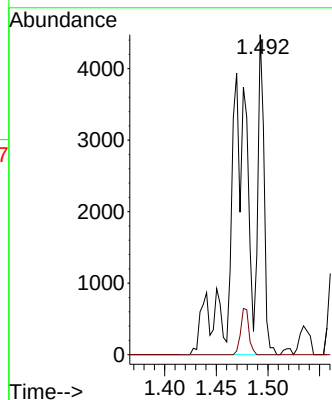
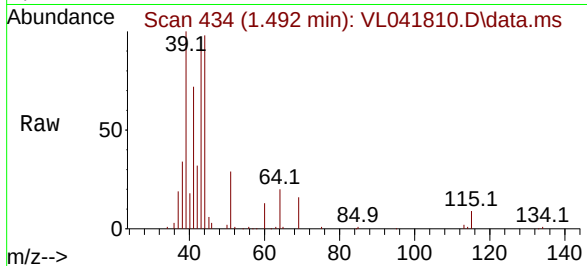




#3
Chlorodifluoromethane
Concen: 0.547 ppbv
RT: 1.492 min Scan# 441
Delta R.T. 0.019 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

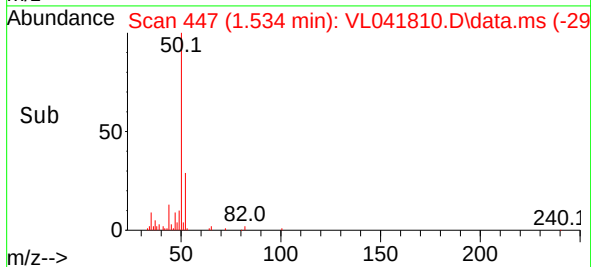
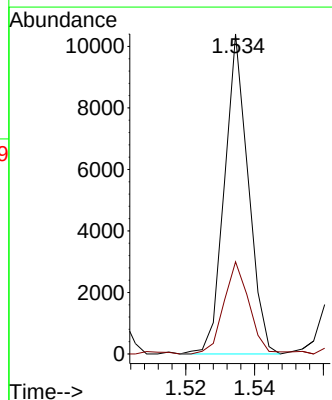
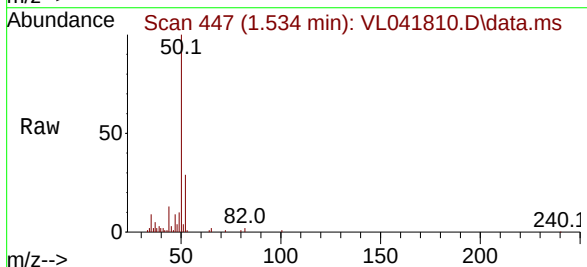
Instrument :
MSVOA_1
ClientSampleId :
C0AC1DL

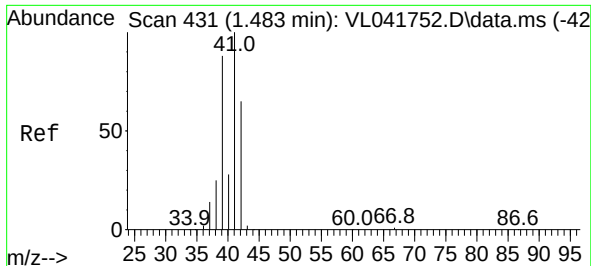
Tgt Ion: 51 Resp: 6608
Ion Ratio Lower Upper
51 100
67 5.4 15.0 22.4#



#4
Chloromethane
Concen: 0.969 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 50 Resp: 4999
Ion Ratio Lower Upper
50 100
52 28.8 26.2 39.2





#9

Propene

Concen: 2.756 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

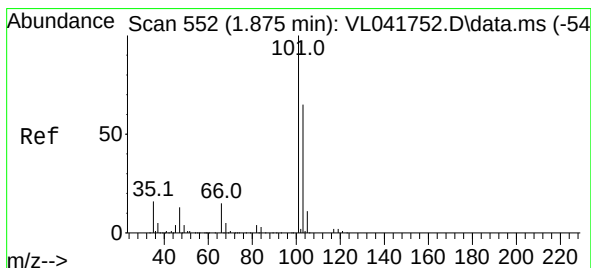
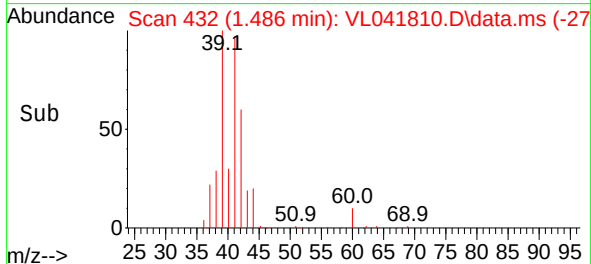
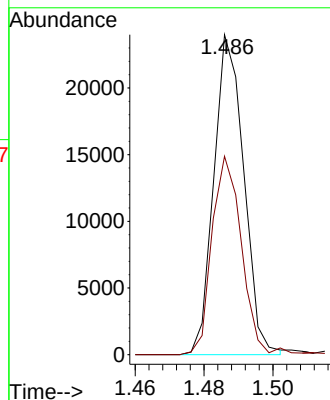
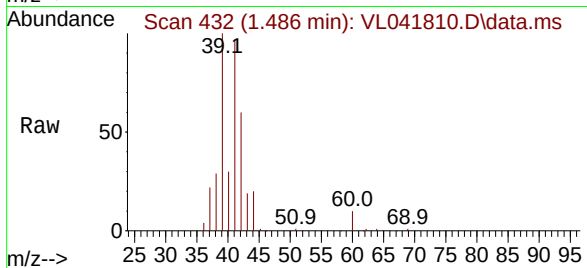
C0AC1DL

Tgt Ion: 41 Resp: 14442

Ion Ratio Lower Upper

41 100

42 62.6 52.4 78.6



#11

Trichlorofluoromethane

Concen: 0.097 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.006 min

Lab File: VL041810.D

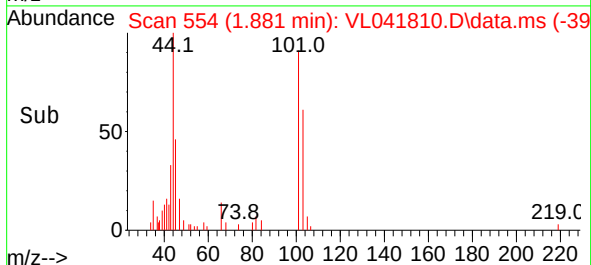
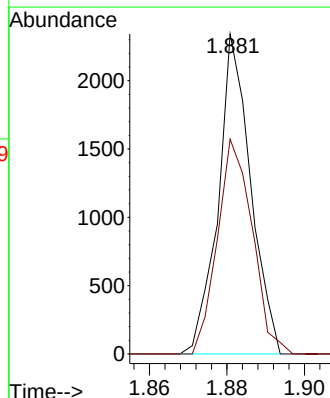
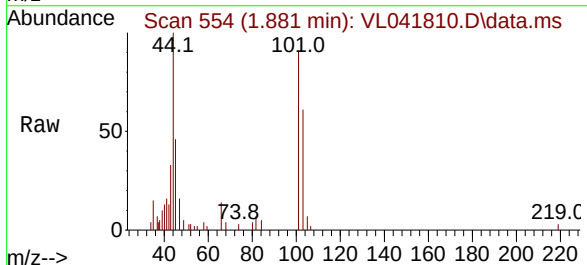
Acq: 19 Dec 2024 00:11

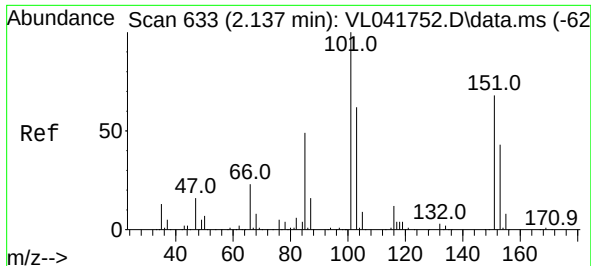
Tgt Ion:101 Resp: 1359

Ion Ratio Lower Upper

101 100

103 67.1 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_1

ClientSampleId :

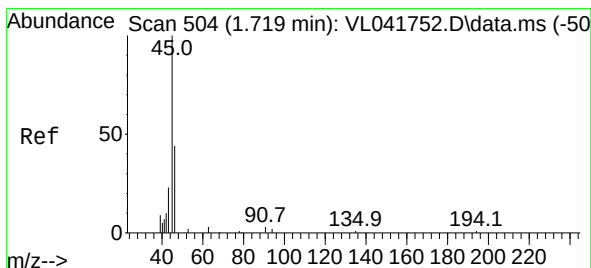
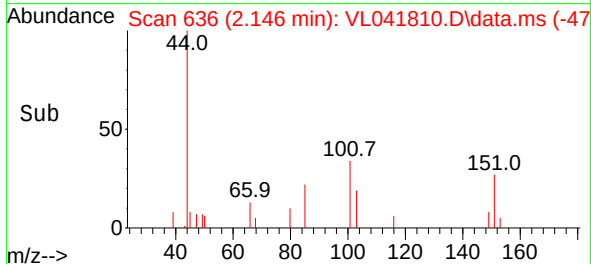
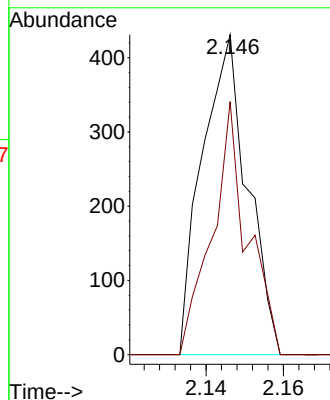
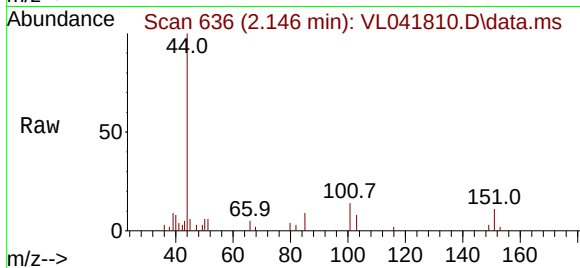
C0AC1DL

Tgt Ion:101 Resp: 349

Ion Ratio Lower Upper

101 100

151 61.6 56.8 85.2



#13

Ethanol

Concen: 2668.289 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041810.D

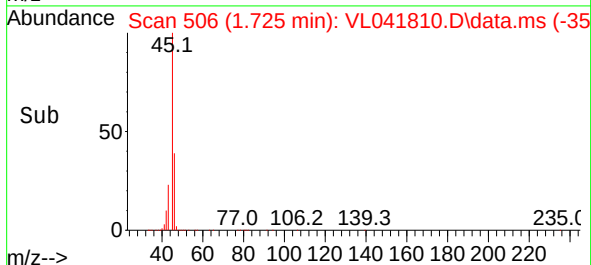
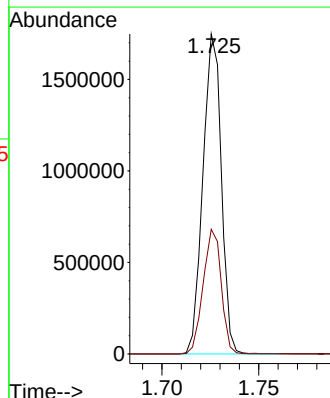
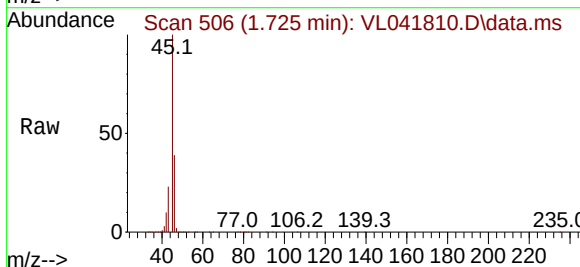
Acq: 19 Dec 2024 00:11

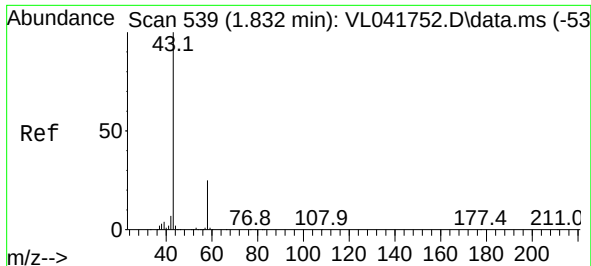
Tgt Ion: 45 Resp: 1157777

Ion Ratio Lower Upper

45 100

46 38.4 16.4 65.8

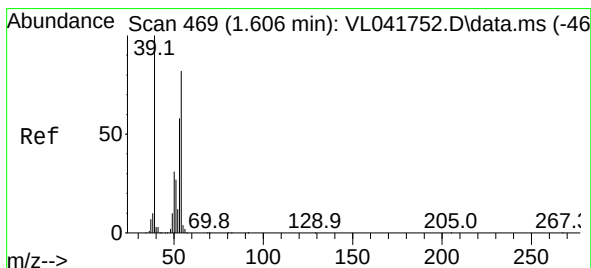
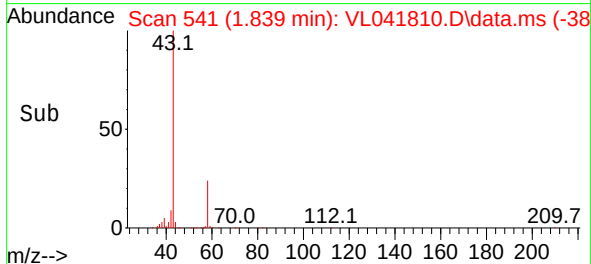
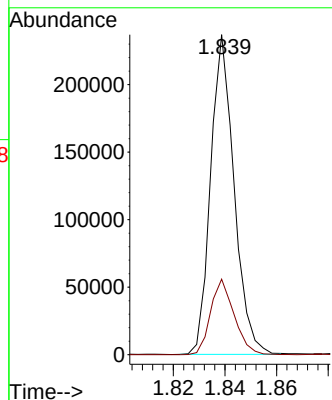
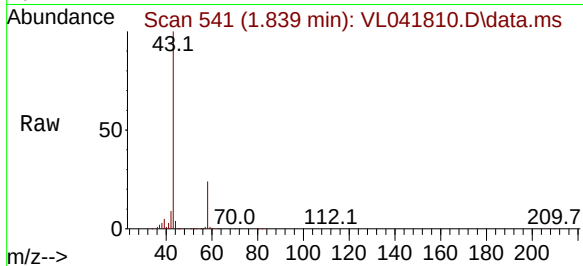




#15
Acetone
Concen: 10.353 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

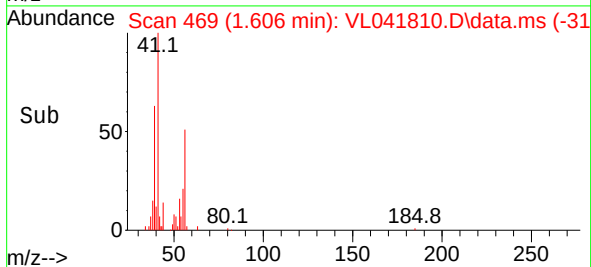
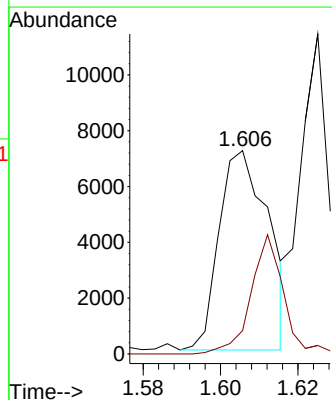
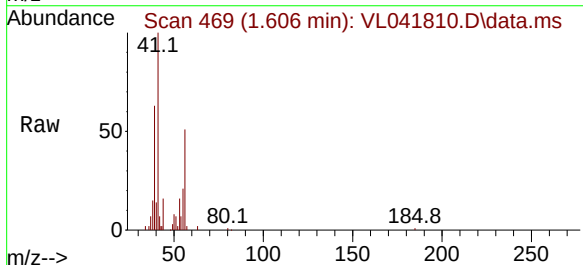
Instrument :
MSVOA_1
ClientSampleId :
C0AC1DL

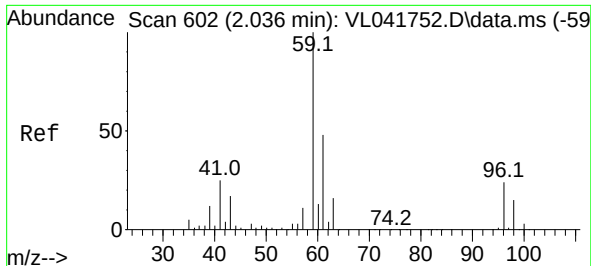
Tgt Ion: 43 Resp: 149341
Ion Ratio Lower Upper
43 100
58 23.8 19.7 29.5



#16
1,3-Butadiene
Concen: 1.111 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 39 Resp: 6313
Ion Ratio Lower Upper
39 100
54 42.2 58.4 87.6#

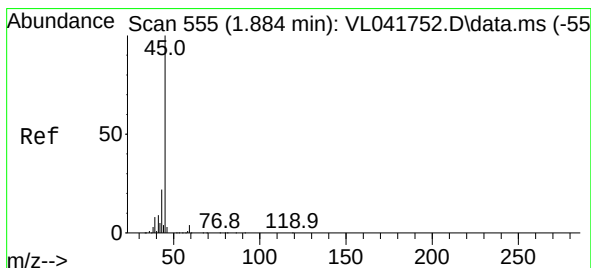
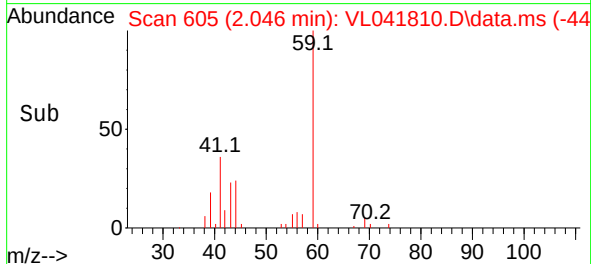
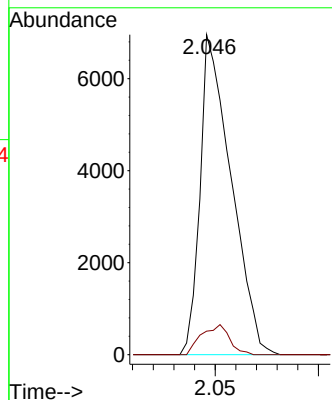
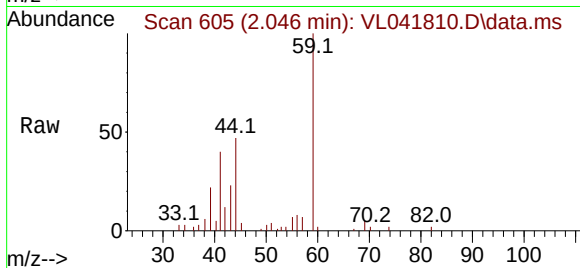




#17
tert-Butyl alcohol
Concen: 0.507 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

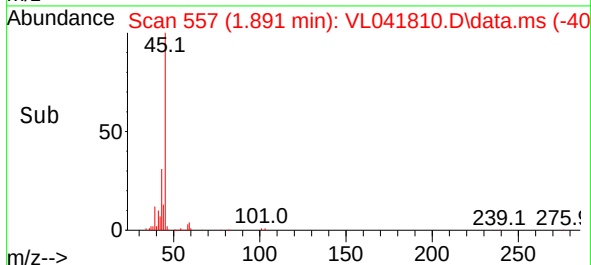
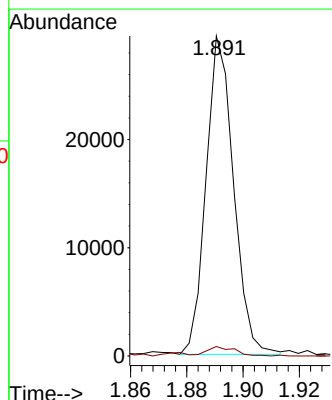
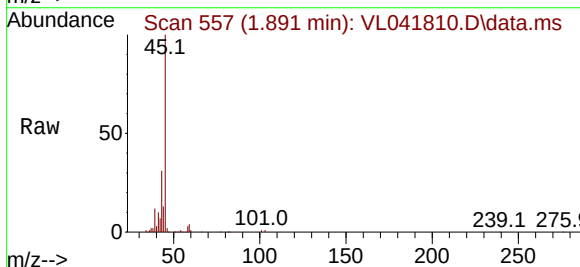
Instrument :
MSVOA_1
ClientSampleId :
C0AC1DL

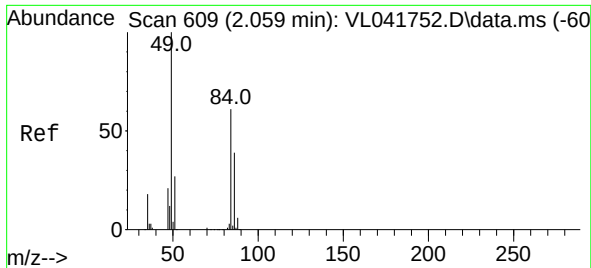
Tgt Ion: 59 Resp: 7260
Ion Ratio Lower Upper
59 100
57 8.4 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 2.311 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 45 Resp: 20001
Ion Ratio Lower Upper
45 100
58 177.5 33.3 49.9#





#20

Methylene Chloride

Concen: 0.847 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL041810.D

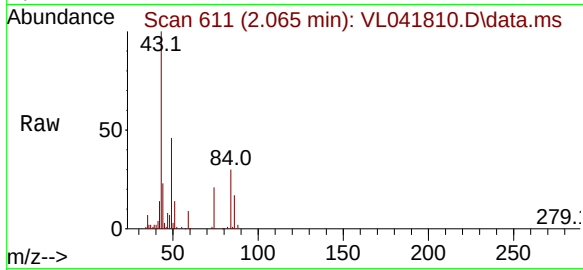
Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

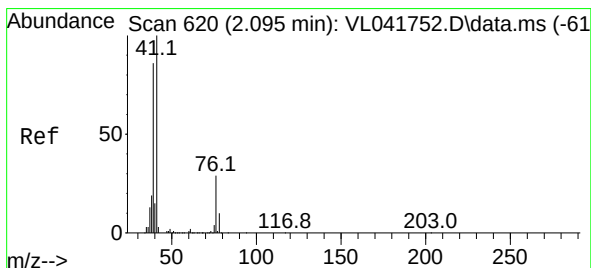
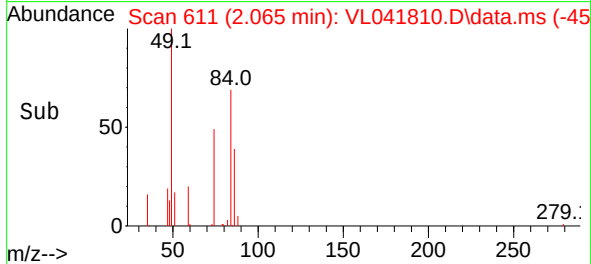
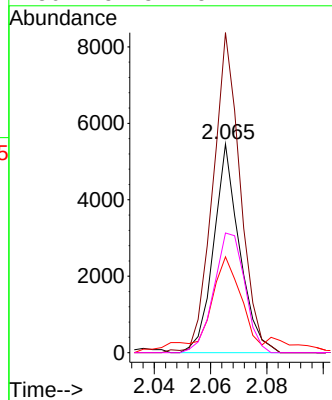
ClientSampleId :

C0AC1DL



Tgt Ion: 84 Resp: 3482

Ion	Ratio	Lower	Upper
84	100		
49	153.4	132.6	198.8
51	41.2	37.6	56.4
86	57.3	51.4	77.0



#21

Allyl Chloride

Concen: 0.108 ppbv

RT: 2.081 min Scan# 616

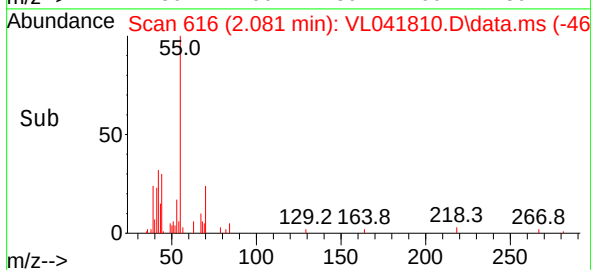
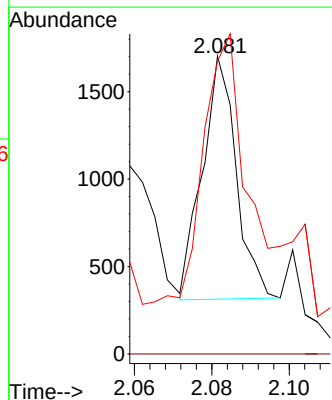
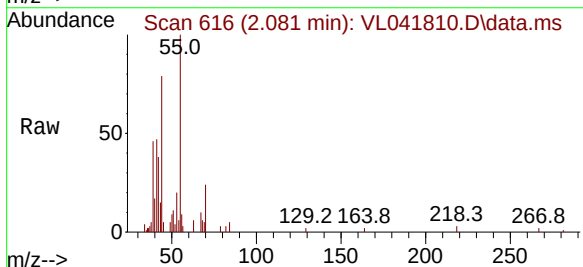
Delta R.T. -0.013 min

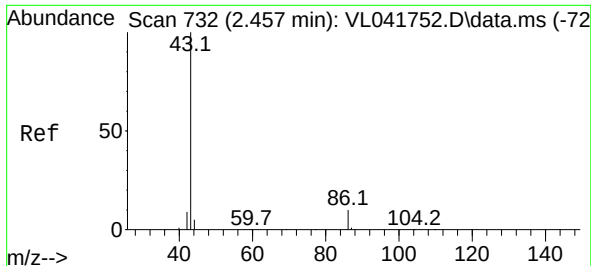
Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion: 41 Resp: 847

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.3	33.5#
39	265.4	69.2	103.8#

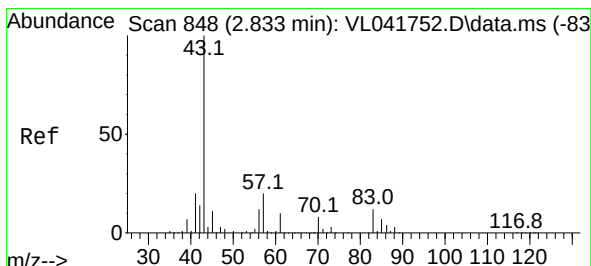
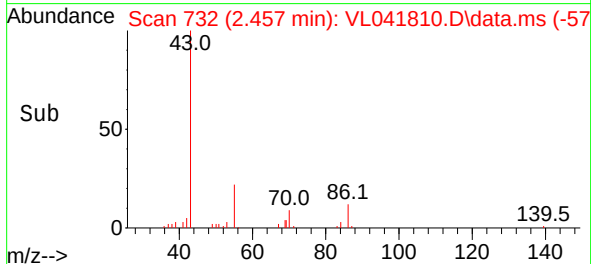
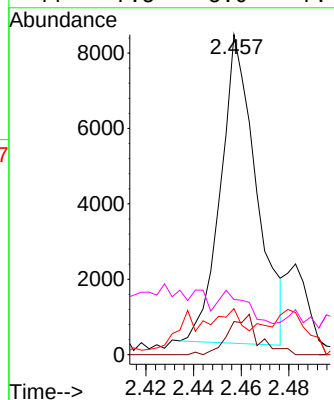
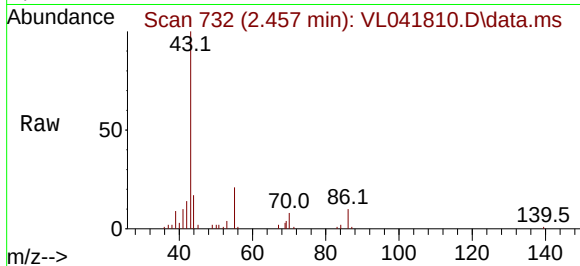




#23
 Vinyl Acetate
 Concen: 1.273 ppbv
 RT: 2.457 min Scan# 74
 Delta R.T. -0.000 min
 Lab File: VL041810.D
 Acq: 19 Dec 2024 00:11

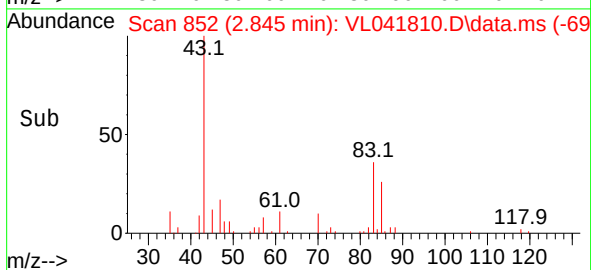
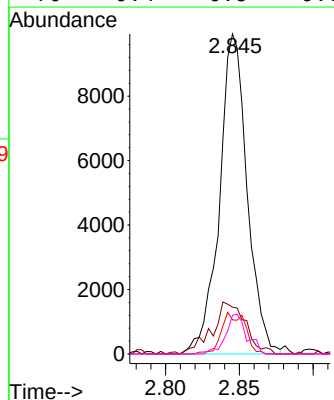
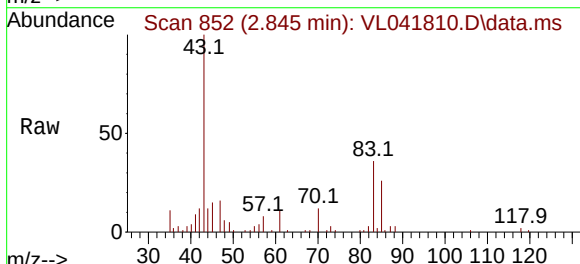
Instrument :
 MSVOA_1
 ClientSampleId :
 C0AC1DL

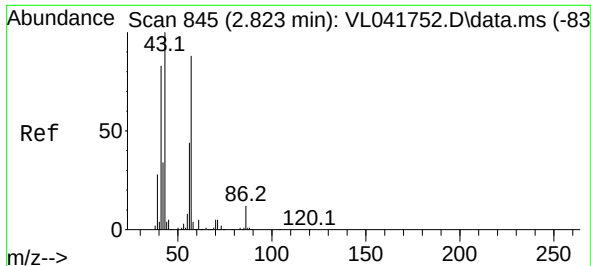
Tgt Ion:	43	Resp:	8527
Ion	Ratio	Lower	Upper
43	100		
86	10.8	6.6	10.0#
42	7.0	8.2	12.2#
44	7.5	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 0.485 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. 0.013 min
 Lab File: VL041810.D
 Acq: 19 Dec 2024 00:11

Tgt Ion:	43	Resp:	13015
Ion	Ratio	Lower	Upper
43	100		
45	19.6	8.1	12.1#
61	11.0	7.0	10.6#
70	9.4	6.5	9.7

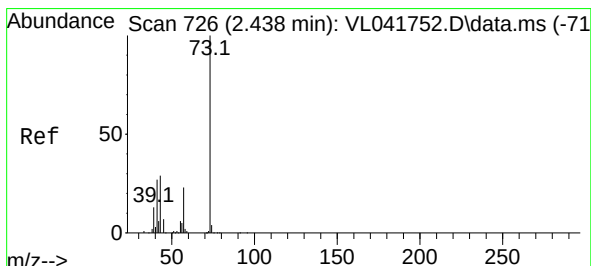
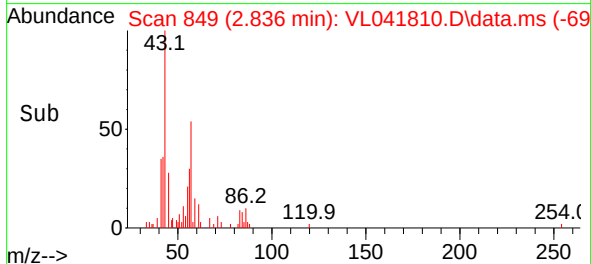
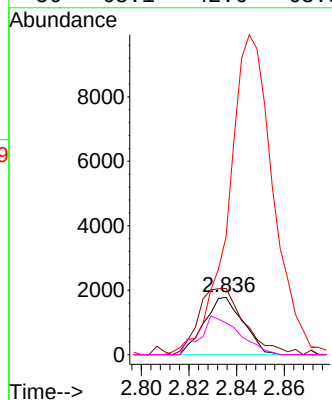
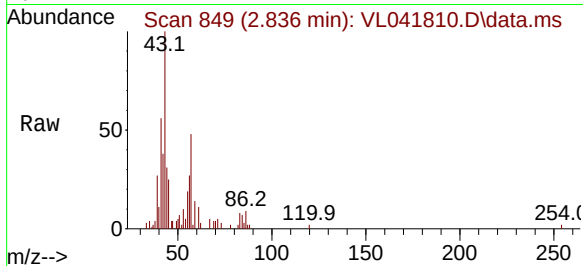




#26
Hexane
Concen: 0.198 ppbv
RT: 2.836 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

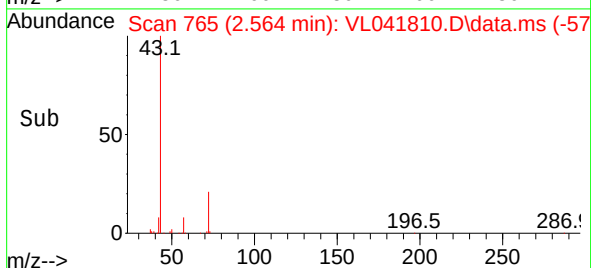
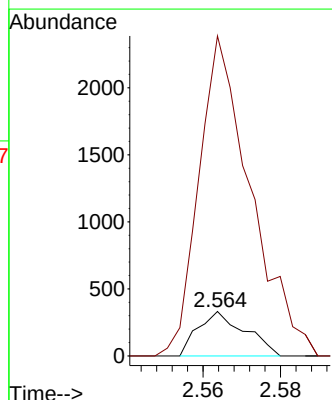
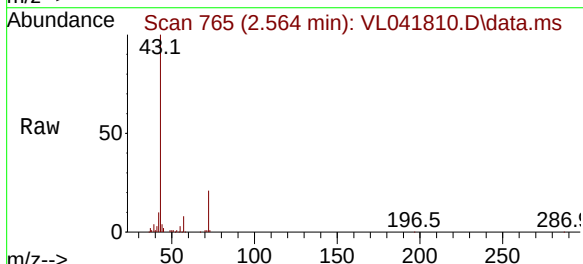
Instrument :
MSVOA_L
ClientSampleId :
C0AC1DL

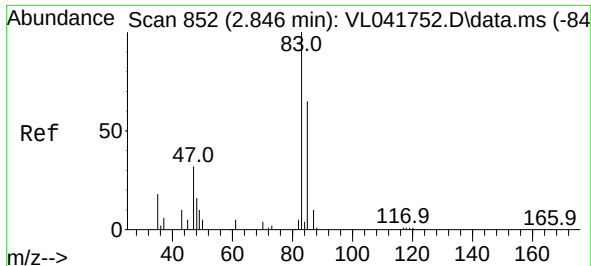
Tgt Ion: 57 Resp: 2019
Ion Ratio Lower Upper
57 100
41 142.1 79.6 119.4#
43 631.6 211.0 316.6#
56 68.1 42.6 63.8#



#28
Methyl tert-Butyl Ether
Concen: 0.034 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.126 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 73 Resp: 279
Ion Ratio Lower Upper
73 100
57 796.1 17.6 26.4#





#29

Chloroform

Concen: 0.647 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

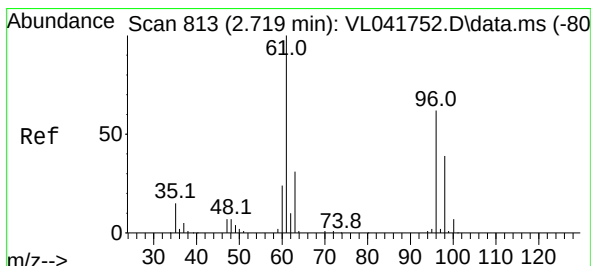
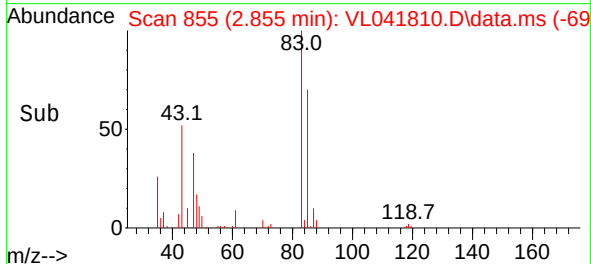
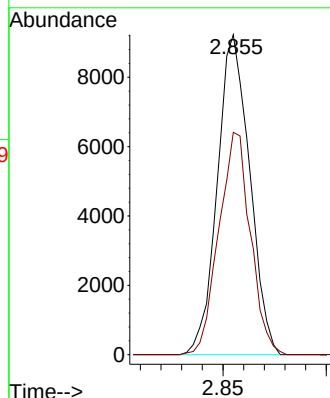
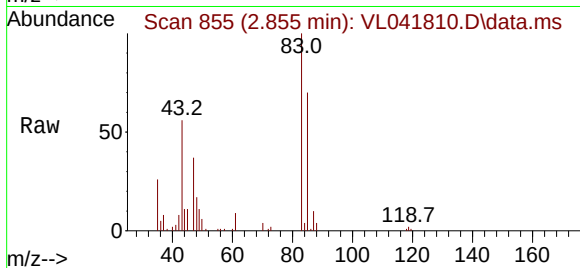
C0AC1DL

Tgt Ion: 83 Resp: 10038

Ion Ratio Lower Upper

83 100

85 69.5 51.8 77.6



#31

cis-1,2-Dichloroethene

Concen: 0.081 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.123 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

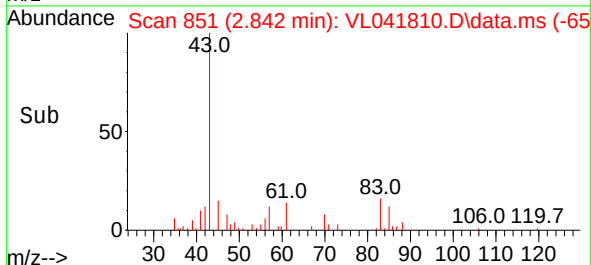
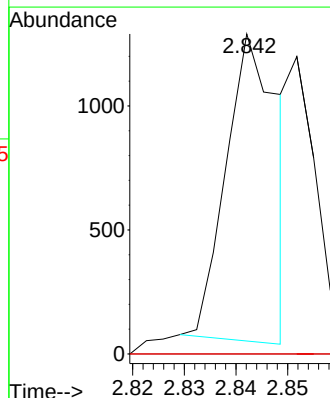
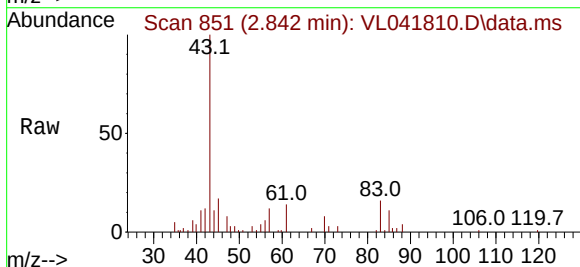
Tgt Ion: 61 Resp: 857

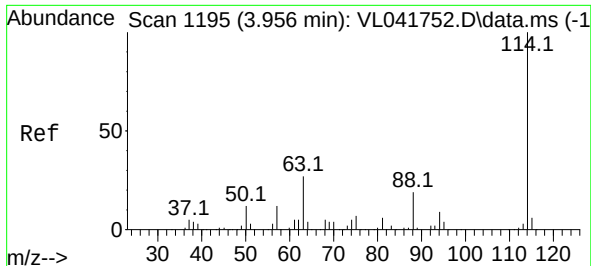
Ion Ratio Lower Upper

61 100

96 0.0 49.7 74.5#

98 0.0 30.8 46.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1195

Delta R.T. 0.016 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_1

ClientSampleId :

C0AC1DL

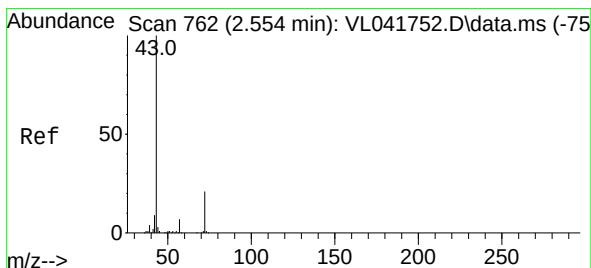
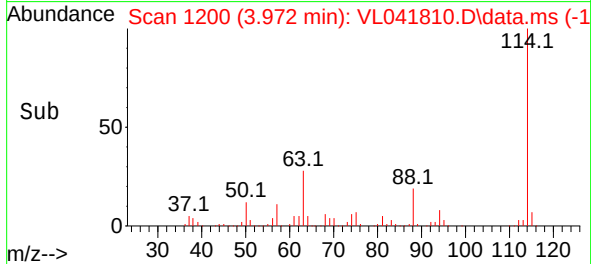
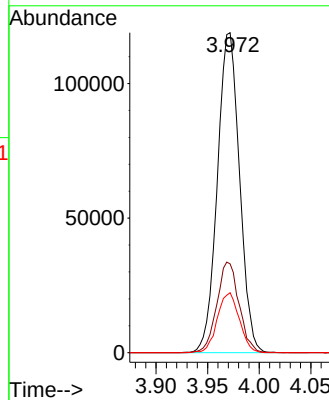
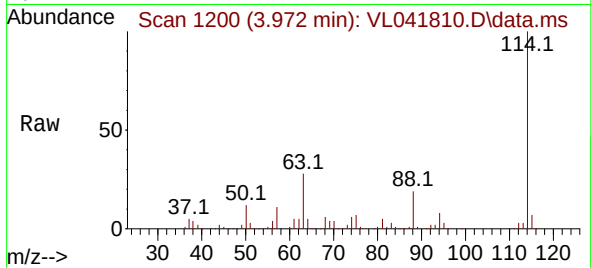
Tgt Ion:114 Resp: 177633

Ion Ratio Lower Upper

114 100

63 28.3 21.8 32.8

88 18.6 14.8 22.2



#34

2-Butanone

Concen: 2.058 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.009 min

Lab File: VL041810.D

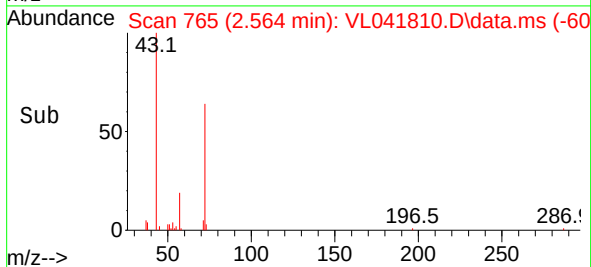
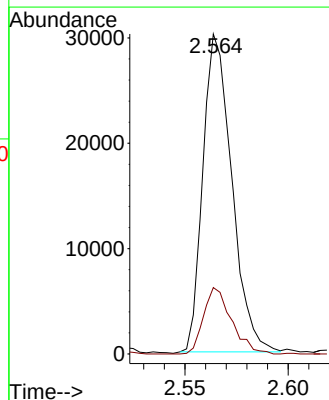
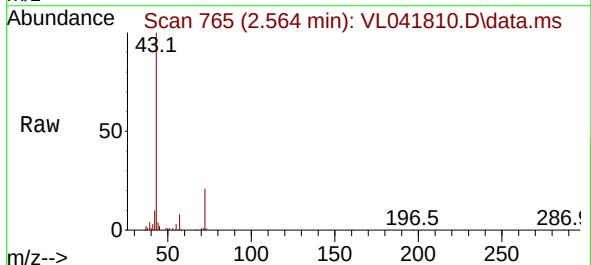
Acq: 19 Dec 2024 00:11

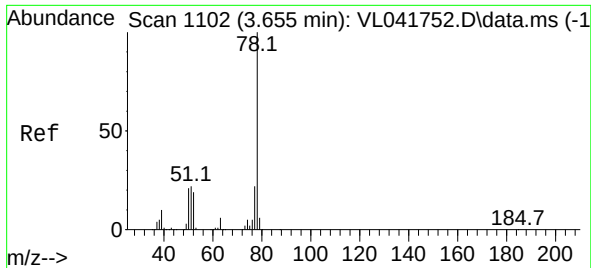
Tgt Ion: 43 Resp: 29410

Ion Ratio Lower Upper

43 100

72 20.3 16.8 25.2

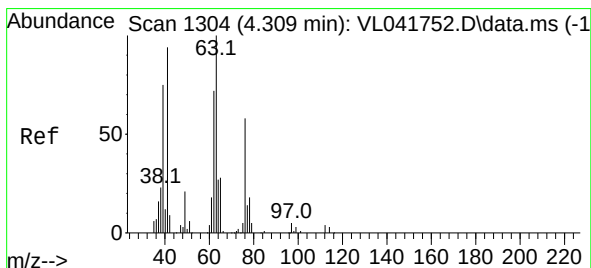
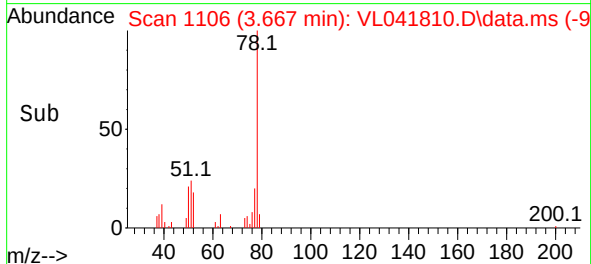
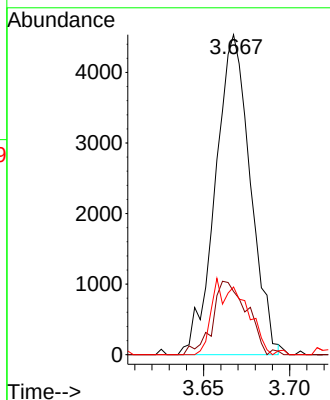
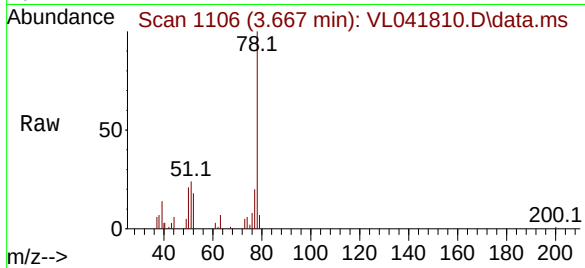




#36
Benzene
Concen: 0.348 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

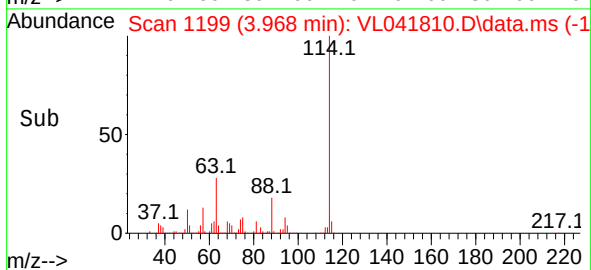
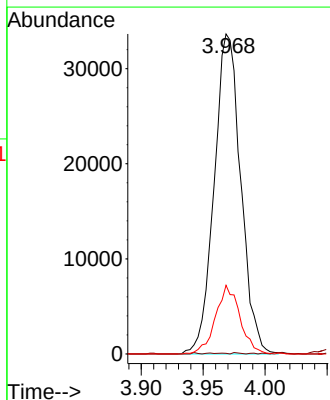
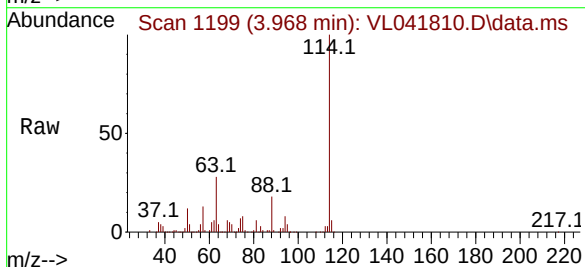
Instrument :
MSVOA_1
ClientSampleId :
C0AC1DL

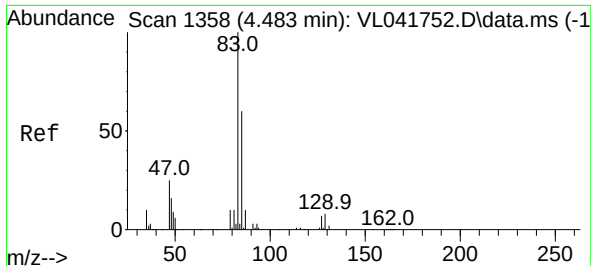
Tgt Ion: 78 Resp: 6389
Ion Ratio Lower Upper
78 100
77 19.8 17.8 26.6
50 21.2 17.2 25.8



#39
1,2-Dichloropropane
Concen: 7.565 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.340 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion: 63 Resp: 50271
Ion Ratio Lower Upper
63 100
41 0.2 75.3 112.9#
62 21.4 57.3 85.9#





#42

Bromodichloromethane

Concen: 0.129 ppbv

RT: 4.502 min Scan# 1364

Delta R.T. 0.019 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_1

ClientSampleId :

C0AC1DL

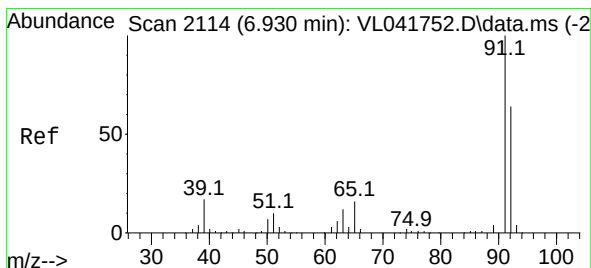
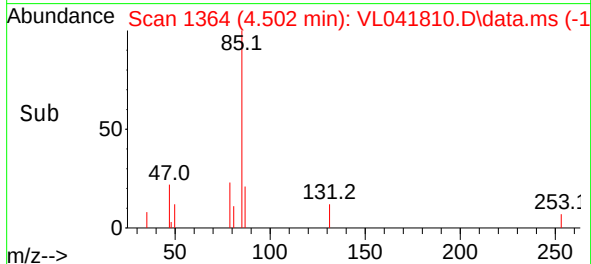
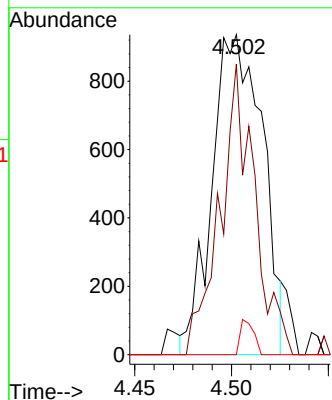
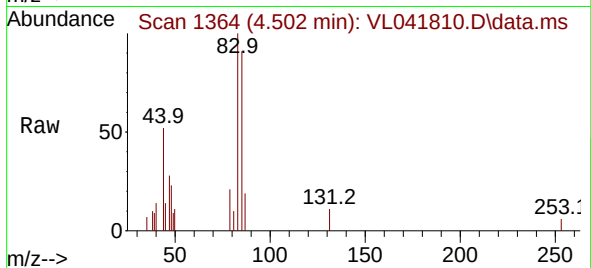
Tgt Ion: 83 Resp: 1698

Ion Ratio Lower Upper

83 100

85 96.6 48.0 72.0#

127 0.0 5.8 8.8#



#53

Toluene

Concen: 0.468 ppbv

RT: 6.946 min Scan# 2119

Delta R.T. 0.016 min

Lab File: VL041810.D

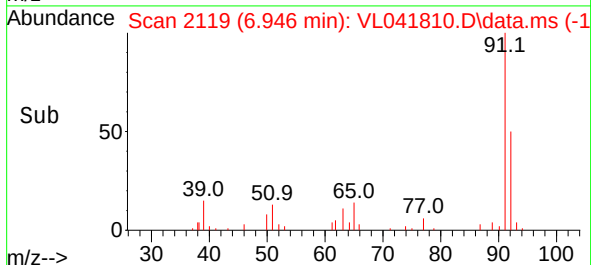
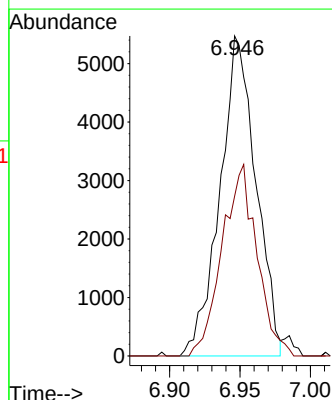
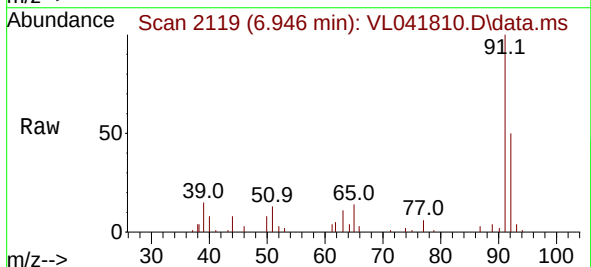
Acq: 19 Dec 2024 00:11

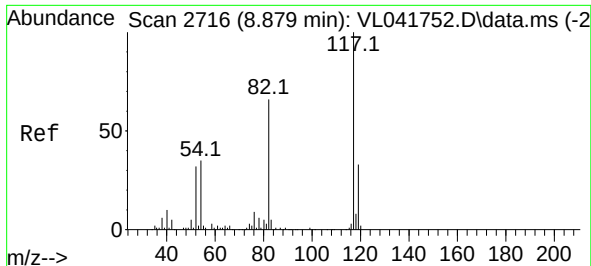
Tgt Ion: 91 Resp: 9756

Ion Ratio Lower Upper

91 100

92 57.8 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_1

ClientSampleId :

C0AC1DL

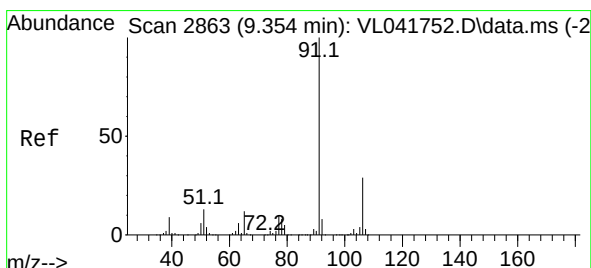
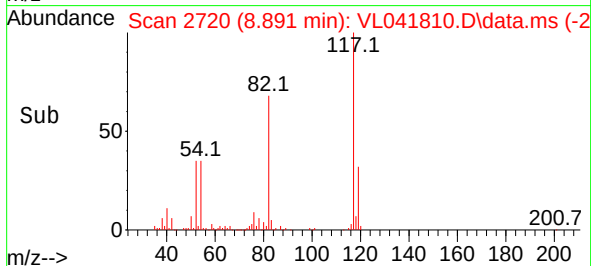
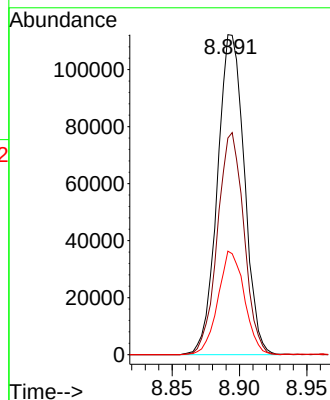
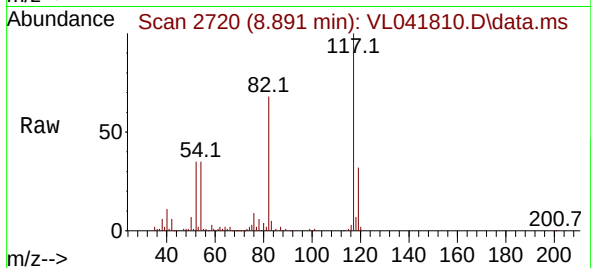
Tgt Ion:117 Resp: 156162

Ion Ratio Lower Upper

117 100

82 68.2 53.8 80.8

119 31.8 26.7 40.1



#58

Ethyl Benzene

Concen: 0.120 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.009 min

Lab File: VL041810.D

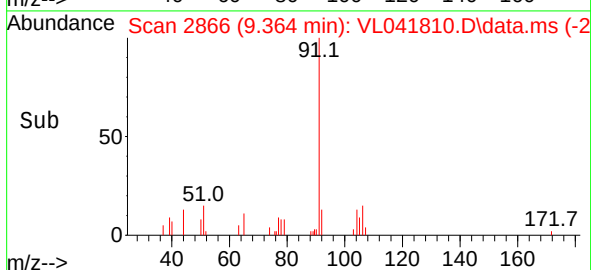
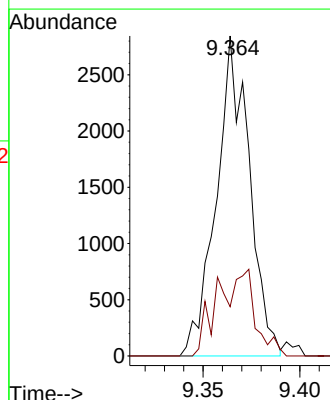
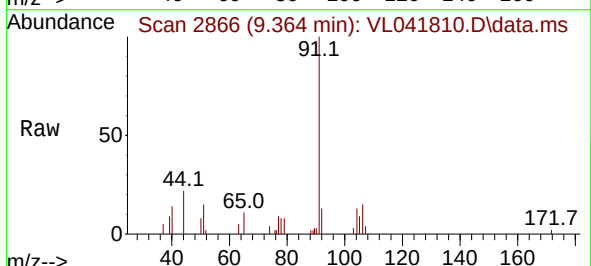
Acq: 19 Dec 2024 00:11

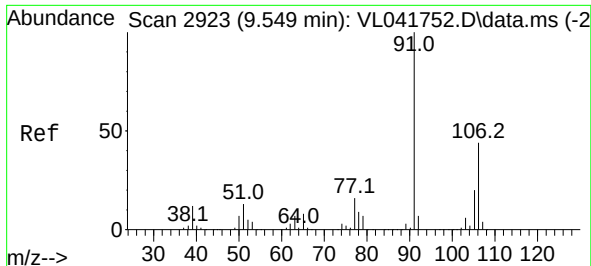
Tgt Ion: 91 Resp: 3369

Ion Ratio Lower Upper

91 100

106 15.4 23.5 35.3#





#59

m/p-Xylene

Concen: 0.604 ppbv

RT: 9.545 min Scan# 2923

Delta R.T. -0.003 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_1

ClientSampleId :

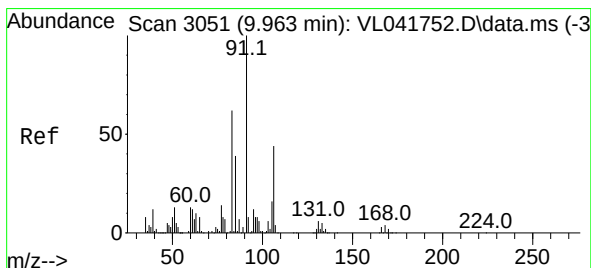
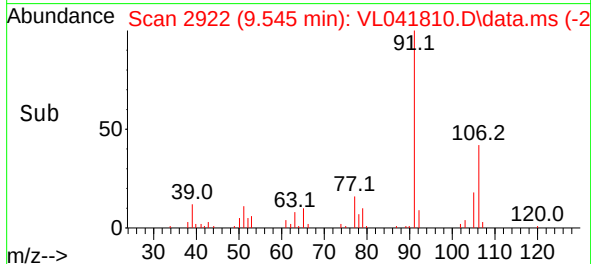
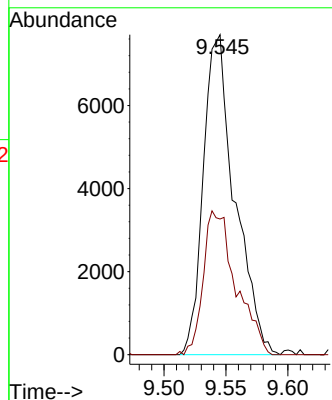
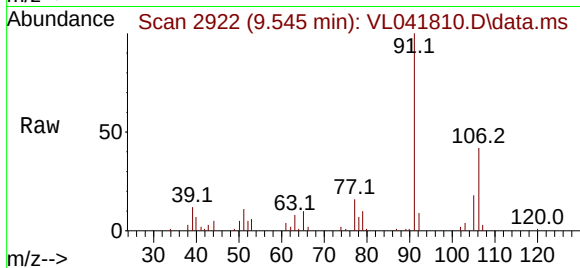
C0AC1DL

Tgt Ion: 91 Resp: 13654

Ion Ratio Lower Upper

91 100

106 46.6 0.0 0.0#



#60

o-Xylene

Concen: 0.236 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.009 min

Lab File: VL041810.D

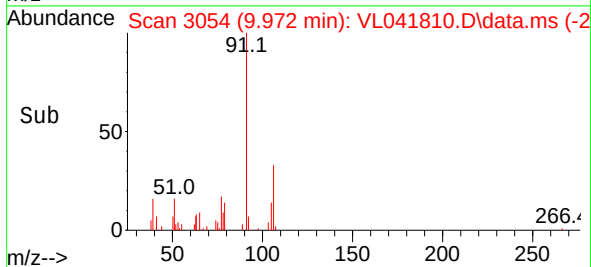
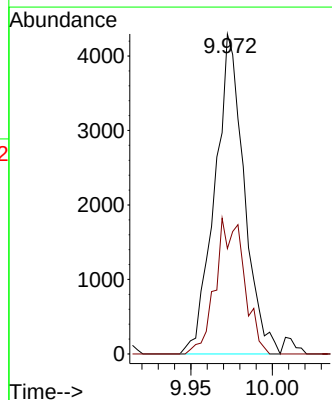
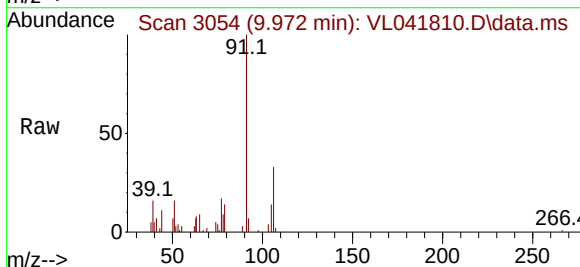
Acq: 19 Dec 2024 00:11

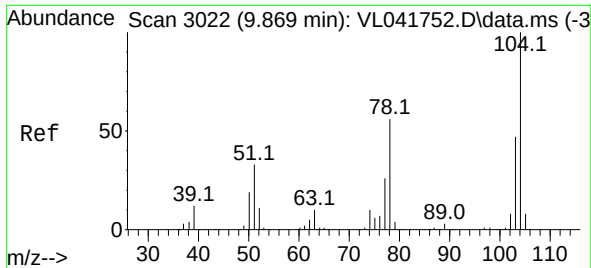
Tgt Ion: 91 Resp: 5359

Ion Ratio Lower Upper

91 100

106 41.5 21.1 63.4

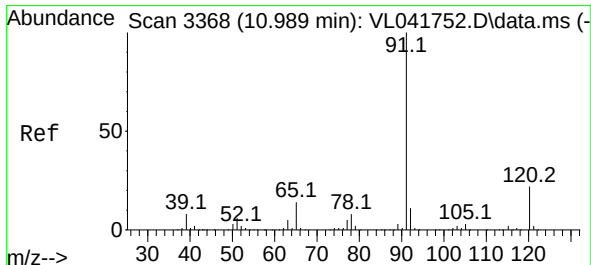
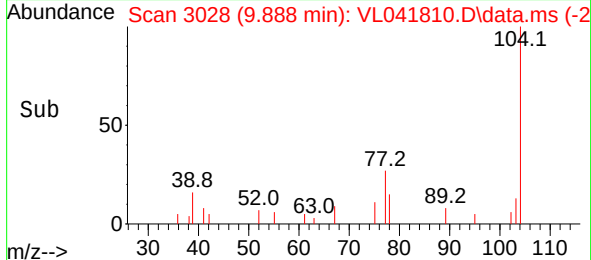
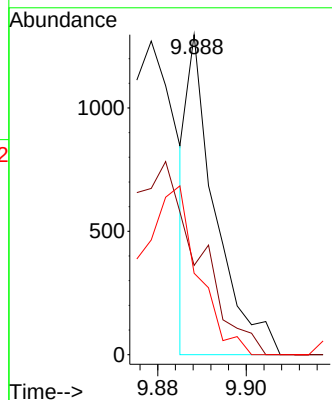
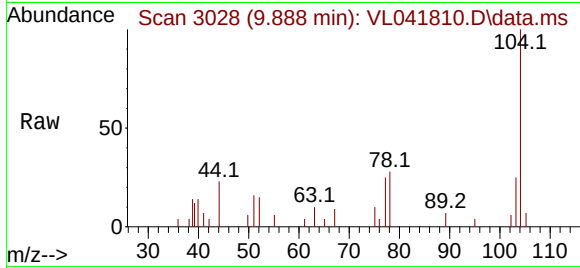




#61
Styrene
Concen: 0.057 ppbv
RT: 9.888 min Scan# 3022
Delta R.T. 0.019 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

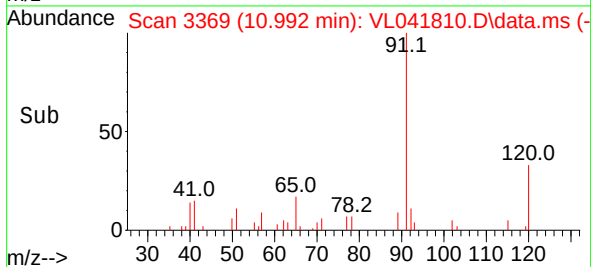
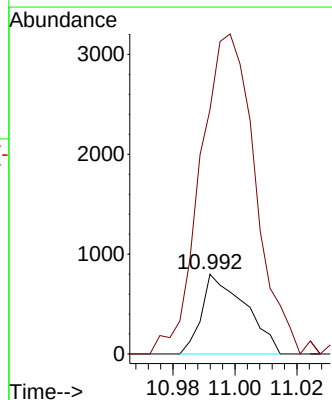
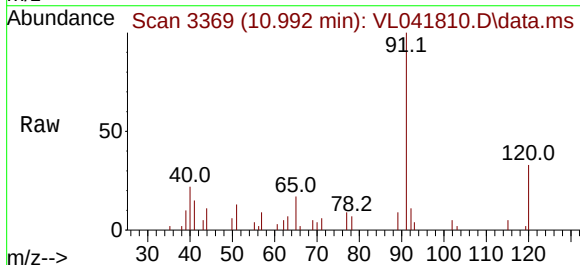
Instrument :
MSVOA_1
ClientSampleId :
C0AC1DL

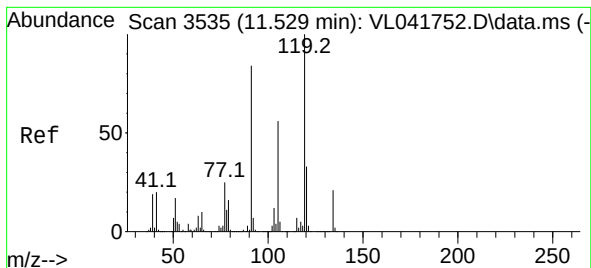
Tgt Ion:104 Resp: 560
Ion Ratio Lower Upper
104 100
78 170.7 43.8 65.6#
103 134.8 37.8 56.6#



#64
n-propylbenzene
Concen: 0.091 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion:120 Resp: 781
Ion Ratio Lower Upper
120 100
91 516.9 387.3 580.9





#65

tert-Butylbenzene

Concen: 0.097 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.016 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

C0AC1DL

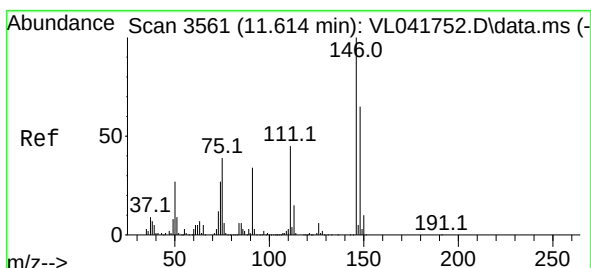
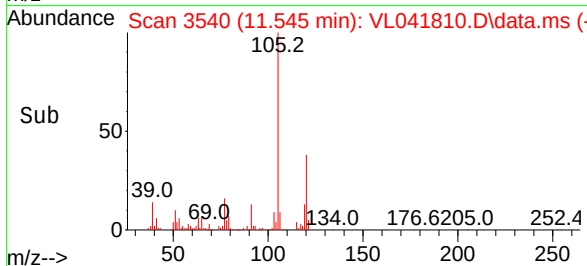
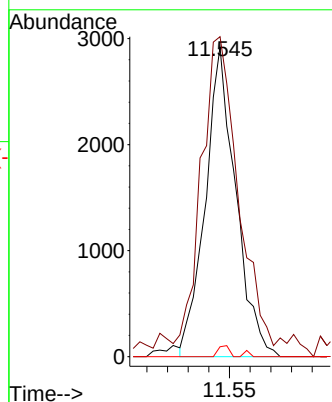
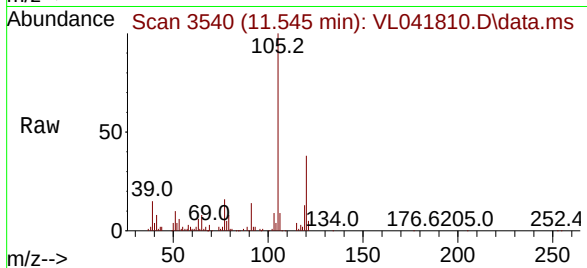
Tgt Ion:119 Resp: 2994

Ion Ratio Lower Upper

119 100

91 130.8 67.0 100.4#

134 1.7 16.5 24.7#



#66

Benzyl Chloride

Concen: 1.300 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. -0.068 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

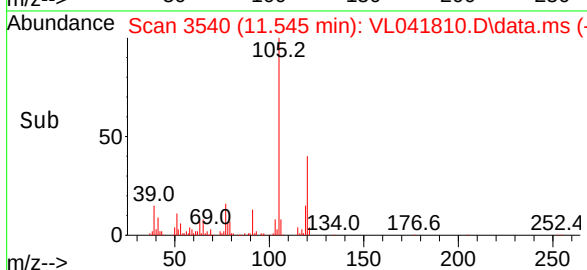
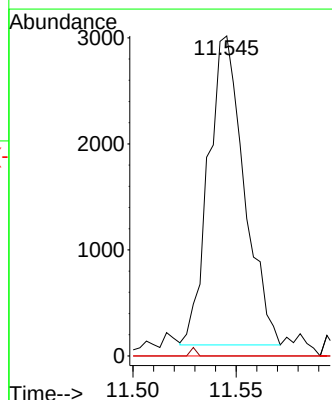
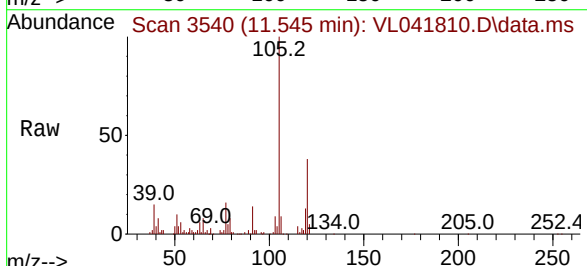
Tgt Ion: 91 Resp: 3520

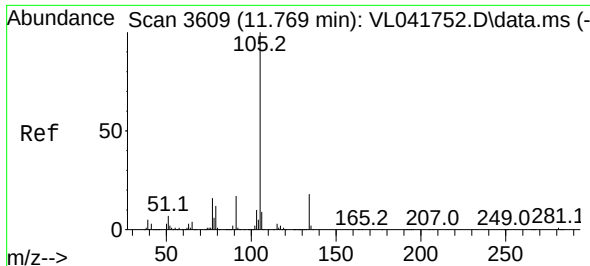
Ion Ratio Lower Upper

91 100

126 0.4 13.9 20.9#

128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.081 ppbv

RT: 11.885 min Scan# 3

Delta R.T. 0.116 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

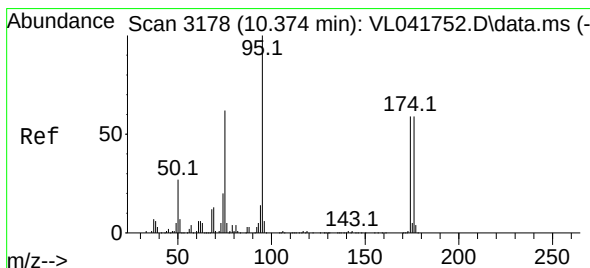
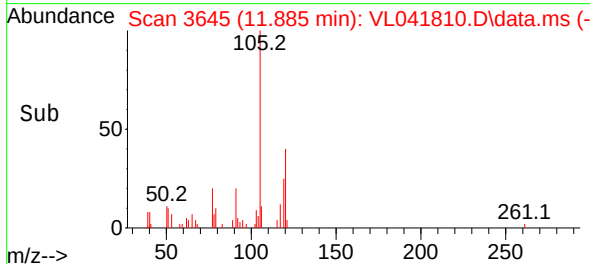
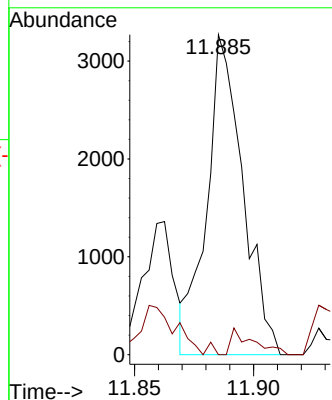
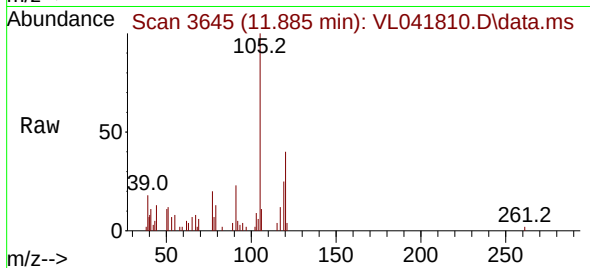
C0AC1DL

Tgt Ion:105 Resp: 3447

Ion Ratio Lower Upper

105 100

134 20.8 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.659 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.013 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

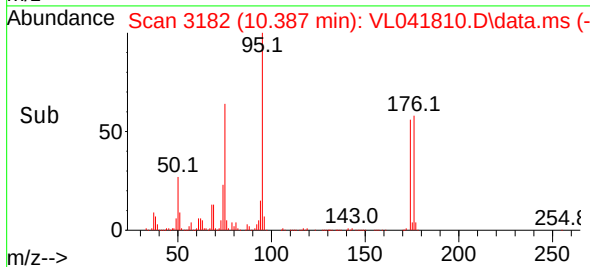
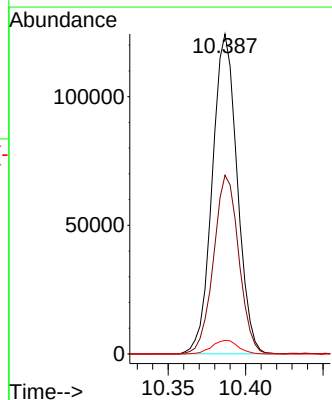
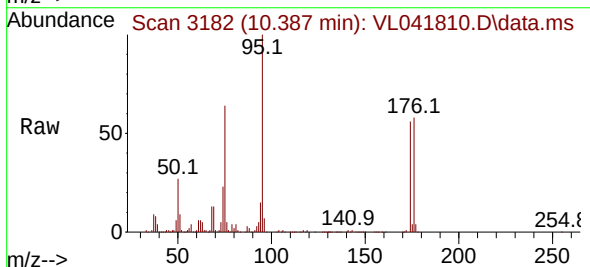
Tgt Ion: 95 Resp: 138713

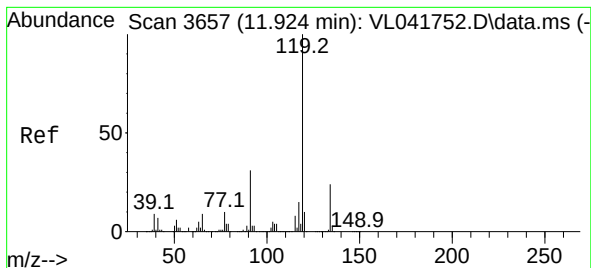
Ion Ratio Lower Upper

95 100

174 56.8 47.6 71.4

175 4.5 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.069 ppbv

RT: 11.934 min Scan# 3

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_1

ClientSampleId :

C0AC1DL

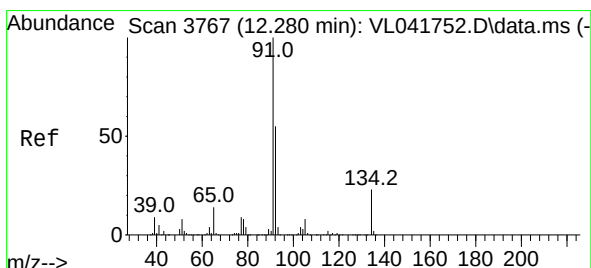
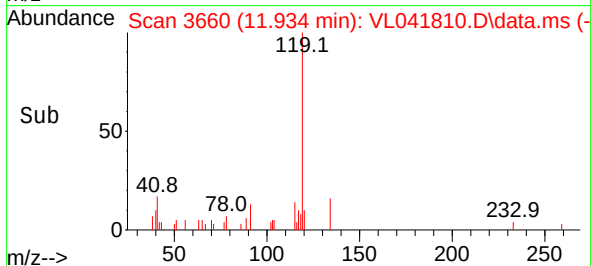
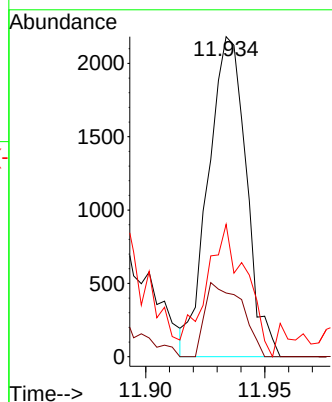
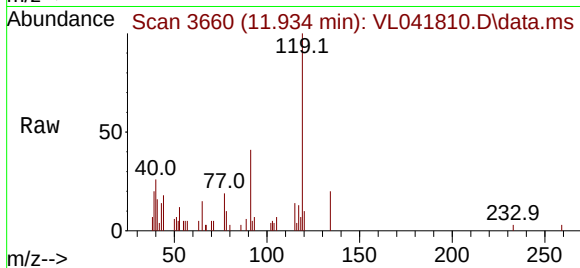
Tgt Ion:119 Resp: 2418

Ion Ratio Lower Upper

119 100

134 29.7 19.6 29.4#

91 38.0 24.4 36.6#



#70

n-Butylbenzene

Concen: 0.034 ppbv

RT: 12.355 min Scan# 3790

Delta R.T. 0.074 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

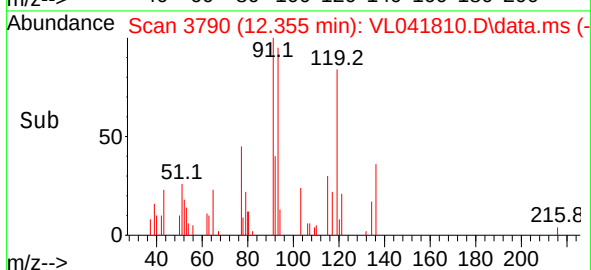
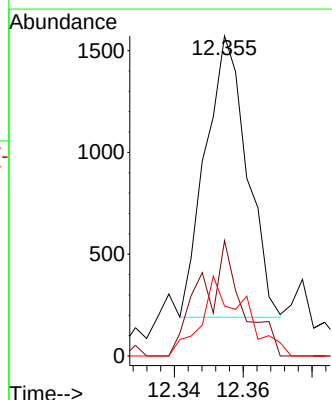
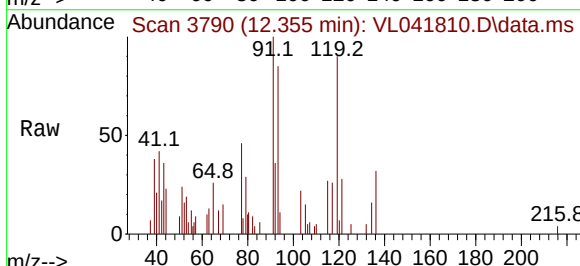
Tgt Ion: 91 Resp: 1159

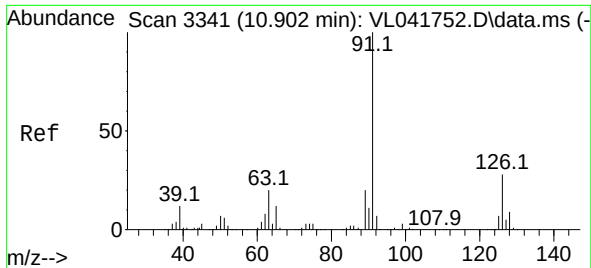
Ion Ratio Lower Upper

91 100

92 41.4 43.2 64.8#

134 29.2 18.2 27.4#

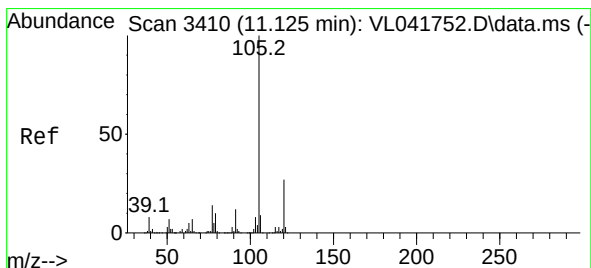
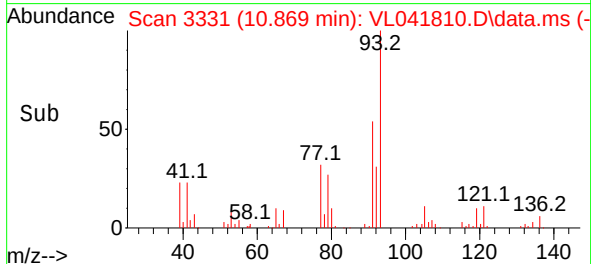
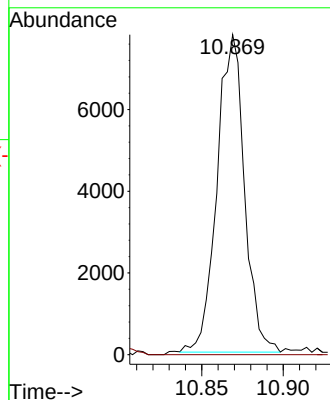
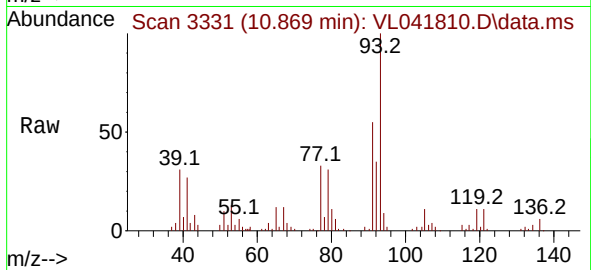




#71
2-Chlorotoluene
Concen: 0.350 ppbv
RT: 10.869 min Scan# 3413
Delta R.T. -0.033 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

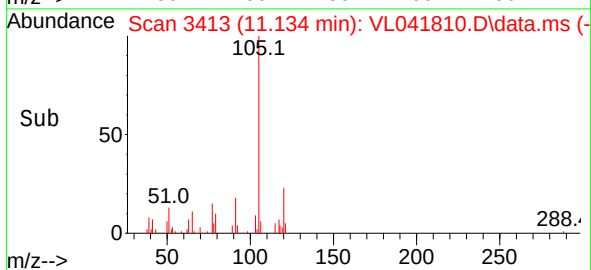
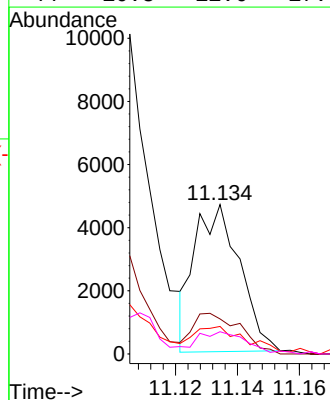
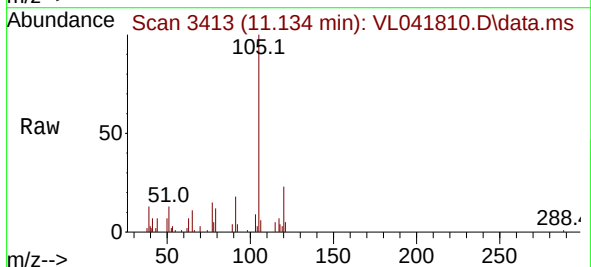
Instrument :
MSVOA_1
ClientSampleId :
C0AC1DL

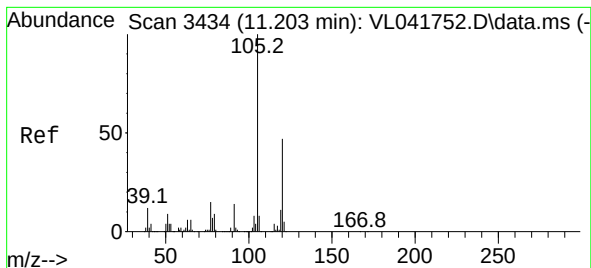
Tgt Ion: 91 Resp: 9088
Ion Ratio Lower Upper
91 100
126 1.2 11.6 46.4#



#72
4-Ethyltoluene
Concen: 0.175 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.009 min
Lab File: VL041810.D
Acq: 19 Dec 2024 00:11

Tgt Ion:105 Resp: 4673
Ion Ratio Lower Upper
105 100
120 0.0 23.3 34.9#
91 0.0 10.9 16.3#
77 16.3 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.210 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Instrument :

MSVOA_L

ClientSampleId :

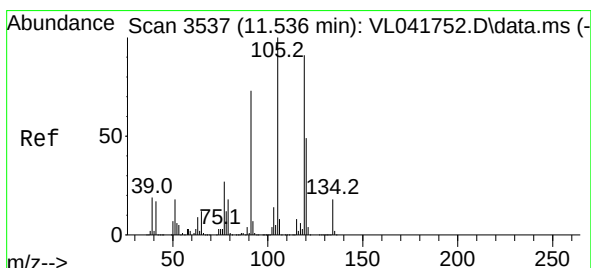
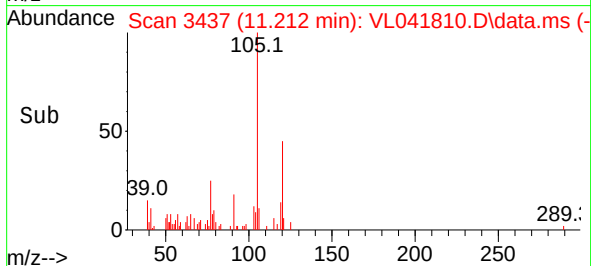
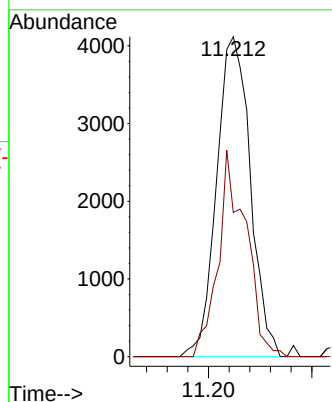
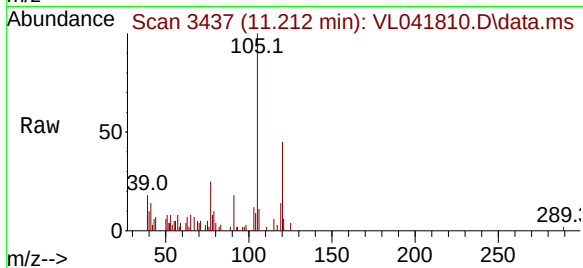
C0AC1DL

Tgt Ion:105 Resp: 4667

Ion Ratio Lower Upper

105 100

120 51.3 37.4 56.2



#74

1,2,4-Trimethylbenzene

Concen: 0.961 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL041810.D

Acq: 19 Dec 2024 00:11

Tgt Ion:105 Resp: 22943

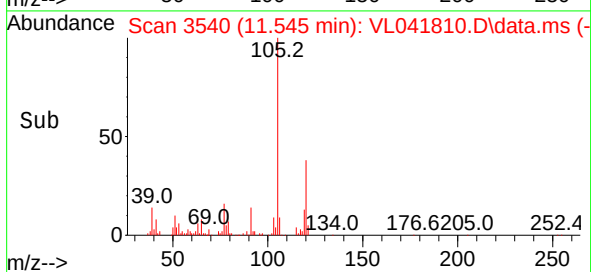
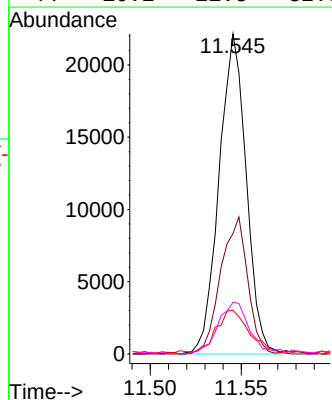
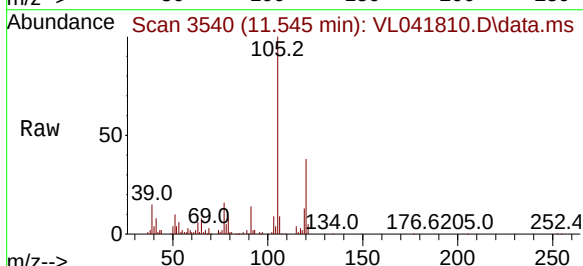
Ion Ratio Lower Upper

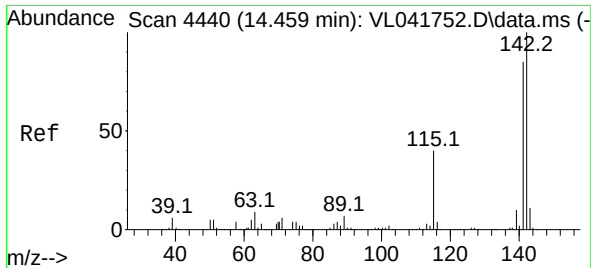
105 100

120 37.7 39.0 58.4#

91 12.9 58.1 87.1#

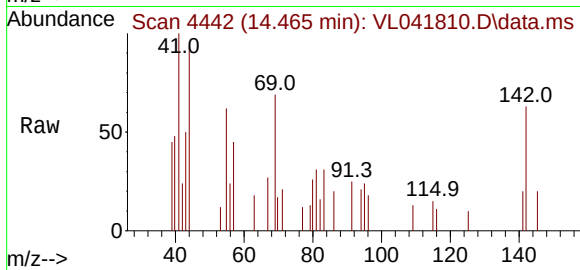
77 16.2 21.8 32.8#





#80
 Naphthalene, 2-methyl-
 Concen: 0.034 ppbv
 RT: 14.465 min Scan# 44
 Delta R.T. 0.006 min
 Lab File: VL041810.D
 Acq: 19 Dec 2024 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC1DL



Tgt Ion:	142	Resp:	174
Ion	Ratio	Lower	Upper
142	100		
141	97.1	68.4	102.6
115	37.9	32.5	48.7

