



SHIPPING DOCUMENTS

USEPA Lab Copy

DateShipped: 12/12/2024

CarrierName: FedEx

AirbillNo: 770554876381

CHAIN OF CUSTODY RECORD

Site #: B3DA

DAS #: R36719

No: 3-121024-132100-0016

Cooler #:

Lab: Alliance Technical Group

Lab Phone: 908-789-8900

[illegible]

11 Commg
- Hg

-5.9

- 7.5

- 3.5

Special Instructions:

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	12/12/2024 0755		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 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				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)**	Outdoor Temp. (F) (Start)	Indoor 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-AA-01	12/19/24	1010	0829	-30	<7	52°F	32°	-30	-5-9	10567	10054	6 L	4.16	VL041545.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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	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>											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: 				Date/Time: 12-13-24 1025																	
Samples Relinquished by: B. B. (1)				Date/Time: 12/12/24 0634				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 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																						
				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	TO-15		Indoor/Ambinet Air	Soil Gas												
ACVS-5A-01-120241210	12/19/24	0845	0845	-30	-7	72°F	72°F	-30	-75	10520	10401	6 L	4.16	VL041614.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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 								
	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>											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: 12/25/24				Canisters Received by: [Signature]				Date/Time: 12-13-24 1000				B2409035 - 12														
Samples Relinquished by: Bob B				Date/Time: 12/24/24 0639				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				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																		
ALVI-SS-02-20241210	12/10/24	0856	0859	-29	-4	72	73.6	-30	-3.5	10482	10197	6 L	4.16	VL041612.D	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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15)									
	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>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings:																															
Sampling site (State):																															
Quick Connector required : NO																															
Canisters Shipped by: Sam					Date/Time: 11/25/24					Canisters Received by:					Date/Time: 12-19-24																
Samples Relinquished by:					Date/Time: 12/12/24 0701					Received by:					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

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

~~QA55:~~

Title: Sample Custodian

Field Sample Seal No.: P5294

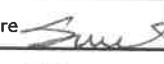
Date Broken: 12/16/2024 12/13/2024

Primary Time Seal Broken: 10:00:00

Case No.: R36719

Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
P5294-01	C0AB6		
P5294-02	C0AB7		
P5294-03	C0AB8		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
12-16-24	14:40	Signature 	Signature 	
		Printed Name <u>Catherine Puri</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

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

LAB CHRONICLE

OrderID:	P5294	OrderDate:	12/16/2024 11:35:00 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
P5294-01	C0AB6	Air	TO-15	TO-15	12/11/24		12/18/24	12/13/24
P5294-02	C0AB7	Air	TO-15	TO-15	12/11/24		12/18/24	12/13/24
P5294-03	C0AB8	Air	TO-15	TO-15	12/11/24		12/19/24	12/13/24

Hit Summary Sheet
SW-846

SDG No.: P5294
Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	C0AB6							
P5294-01	C0AB6	Air	Dichlorodifluoromethane	1.68	J	1.04	2.47	ug/m3
P5294-01	C0AB6	Air	Chloromethane	0.97	J	0.21	1.03	ug/m3
P5294-01	C0AB6	Air	Tetrahydrofuran	1.83		0.38	1.47	ug/m3
P5294-01	C0AB6	Air	Trichlorofluoromethane	1.07	J	0.90	2.81	ug/m3
P5294-01	C0AB6	Air	tert-Butyl alcohol	1.58		0.58	1.52	ug/m3
P5294-01	C0AB6	Air	Heptane	0.98	J	0.45	2.05	ug/m3
P5294-01	C0AB6	Air	Acetone	7.36		0.57	1.19	ug/m3
P5294-01	C0AB6	Air	Methylene Chloride	1.11	J	0.66	1.74	ug/m3
P5294-01	C0AB6	Air	2-Butanone	2.04		0.35	1.47	ug/m3
P5294-01	C0AB6	Air	Carbon Tetrachloride	0.31		0.060	0.19	ug/m3
P5294-01	C0AB6	Air	2,2,4-Trimethylpentane	0.47	J	0.47	2.34	ug/m3
P5294-01	C0AB6	Air	Benzene	0.70	J	0.29	1.60	ug/m3
P5294-01	C0AB6	Air	4-Methyl-2-Pentanone	0.94	J	0.37	2.05	ug/m3
P5294-01	C0AB6	Air	Toluene	13.6		0.41	1.88	ug/m3
P5294-01	C0AB6	Air	Chlorobenzene	0.55	J	0.37	2.30	ug/m3
P5294-01	C0AB6	Air	Ethyl Benzene	1.52	J	0.52	2.17	ug/m3
P5294-01	C0AB6	Air	m/p-Xylene	5.65		0.91	4.34	ug/m3
P5294-01	C0AB6	Air	o-Xylene	2.17		0.52	2.17	ug/m3
P5294-01	C0AB6	Air	Styrene	1.23	J	0.47	2.13	ug/m3
			Total Voc :		45.7			
			Total Concentration:		45.7			
Client ID:	C0AB7							
P5294-02	C0AB7	Air	Dichlorodifluoromethane	1.78	J	1.04	2.47	ug/m3
P5294-02	C0AB7	Air	Chloromethane	1.38		0.21	1.03	ug/m3
P5294-02	C0AB7	Air	Trichlorofluoromethane	1.12	J	0.90	2.81	ug/m3
P5294-02	C0AB7	Air	tert-Butyl alcohol	2.00		0.58	1.52	ug/m3
P5294-02	C0AB7	Air	Heptane	0.49	J	0.45	2.05	ug/m3
P5294-02	C0AB7	Air	Acetone	20.4		0.57	1.19	ug/m3
P5294-02	C0AB7	Air	Methylene Chloride	1.56	J	0.66	1.74	ug/m3
P5294-02	C0AB7	Air	2-Butanone	1.33	J	0.35	1.47	ug/m3
P5294-02	C0AB7	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
P5294-02	C0AB7	Air	Chloroform	1.47	J	0.39	2.44	ug/m3
P5294-02	C0AB7	Air	2,2,4-Trimethylpentane	0.84	J	0.47	2.34	ug/m3
P5294-02	C0AB7	Air	Benzene	1.02	J	0.29	1.60	ug/m3
P5294-02	C0AB7	Air	Toluene	2.26		0.41	1.88	ug/m3
P5294-02	C0AB7	Air	m/p-Xylene	1.17	J	0.91	4.34	ug/m3

Hit Summary Sheet
SW-846

SDG No.: P5294

Client: Tetra Tech, EMI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5294-02	C0AB7	Air	Hexane	1.20	J	0.39	1.76	ug/m3
			Total Voc :			38.5		
			Total Concentration:			38.5		
Client ID:	C0AB8							
P5294-03	C0AB8	Air	Dichlorodifluoromethane	1.83	J	1.04	2.47	ug/m3
P5294-03	C0AB8	Air	Chloromethane	1.24		0.21	1.03	ug/m3
P5294-03	C0AB8	Air	Trichlorofluoromethane	1.12	J	0.90	2.81	ug/m3
P5294-03	C0AB8	Air	tert-Butyl alcohol	0.82	J	0.58	1.52	ug/m3
P5294-03	C0AB8	Air	Acetone	18.8		0.57	1.19	ug/m3
P5294-03	C0AB8	Air	Methylene Chloride	1.15	J	0.66	1.74	ug/m3
P5294-03	C0AB8	Air	2-Butanone	2.77		0.35	1.47	ug/m3
P5294-03	C0AB8	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
P5294-03	C0AB8	Air	Chloroform	1.17	J	0.39	2.44	ug/m3
P5294-03	C0AB8	Air	2,2,4-Trimethylpentane	1.35	J	0.47	2.34	ug/m3
P5294-03	C0AB8	Air	Benzene	1.31	J	0.29	1.60	ug/m3
P5294-03	C0AB8	Air	Toluene	2.79		0.41	1.88	ug/m3
P5294-03	C0AB8	Air	m/p-Xylene	1.65	J	0.91	4.34	ug/m3
P5294-03	C0AB8	Air	o-Xylene	0.61	J	0.52	2.17	ug/m3
P5294-03	C0AB8	Air	1,2,4-Trimethylbenzene	0.64	J	0.39	2.46	ug/m3
P5294-03	C0AB8	Air	Hexane	1.30	J	0.39	1.76	ug/m3
			Total Voc :			39.0		
			Total Concentration:			39.0		



QC SUMMARY

Surrogate Summary

SDG No.: P5294

Client: Tetra Tech, EMI

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5293-01DUP	C0AB9DUP	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
P5294-01	C0AB6	1-Bromo-4-Fluorobenzene	10	9.72	97	65	135
P5294-02	C0AB7	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
P5294-03	C0AB8	1-Bromo-4-Fluorobenzene	10	10.1	101	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.: P5294

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.: P5294

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.

C0AB9DUP

Lab Name: CHEMTECH

Contract: TETR16

Lab Code: CHEM Case No.: P5294

SAS No.: P5294 SDG NO.: P5294

Lab File ID: VL041798.D

Lab Sample ID: P5293-01DUP

Date Analyzed: 12/18/2024

Time Analyzed: 17:43

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
C0AB9DUP	P5293-01DUP	VL041798.D	12/18/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1218ABL02

Lab Name: CHEMTECH

Contract: TETR16

Lab Code: CHEM Case No.: P5294

SAS No.: P5294 SDG NO.: P5294

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
C0AB6	P5294-01	VL041802.D	12/18/2024
C0AB7	P5294-02	VL041803.D	12/18/2024
C0AB8	P5294-03	VL041811.D	12/19/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR16
Lab Code: CHEM Case No.: P5294 SAS No.: P5294 SDG NO.: P5294
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.: P5294 SAS No.: P5294 SDG NO.: P5294
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
C0AB9DUP	P5293-01DUP	VL041798.D	12/18/2024	17:43
C0AB6	P5294-01	VL041802.D	12/18/2024	19:58
C0AB7	P5294-02	VL041803.D	12/18/2024	20:32
C0AB8	P5294-03	VL041811.D	12/19/2024	00:44

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR16
Lab Code: CHEM Case No.: P5294 SAS No.: P5294 SDG NO.: P5294
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.						
C0AB9DUP	72121	2.80	176581	3.98	152305	8.89
C0AB6	77034	2.80	192884	3.97	185181	8.89
C0AB7	76658	2.79	187828	3.97	164998	8.89
C0AB8	77490	2.79	186355	3.97	163591	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:	C0AB6	SDG No.:	P5294
Lab Sample ID:	P5294-01	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
VL041802.D	1		12/18/24 19:58	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.34	1.68	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.47	0.97	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	0.62	1.83		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	0.52	1.58		0.58	1.52	ug/m3
142-82-5	Heptane	0.24	0.98	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	3.10	7.36		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	0.32	1.11	J	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	0.69	2.04		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.050	0.31		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	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.22	0.70	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	0.23	0.94	J	0.37	2.05	ug/m3
108-88-3	Toluene	3.60	13.6		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:	C0AB6	SDG No.:	P5294
Lab Sample ID:	P5294-01	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
VL041802.D	1		12/18/24 19:58	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	0.12	0.55	J	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	1.30	5.65		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17		0.52	2.17	ug/m3
100-42-5	Styrene	0.29	1.23	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	0.11	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	9.70			65 - 135	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	77000		2.797			
540-36-3	1,4-Difluorobenzene	193000		3.971			
3114-55-4	Chlorobenzene-d5	185000		8.894			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB6	SDG No.:	P5294
Lab Sample ID:	P5294-01	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
VL041802.D	1		12/18/24 19:58	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 : VL041802.D
 Acq On : 18 Dec 2024 19:58
 Operator : SY/MD
 Sample : P5294-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB6

Manual Integrations
 APPROVED

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

Quant Time: Dec 19 07:58:37 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	77034	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.971	114	192884	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	185181	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	150031	9.722	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	4687	0.342	ppbv	96
3) Chlorodifluoromethane	1.479	51	3166m	0.252	ppbv	
4) Chloromethane	1.534	50	2543	0.474	ppbv	96
9) Propene	1.492	41	9245m	1.698	ppbv	
10) Heptane	5.001	43	3400m	0.243	ppbv	
11) Trichlorofluoromethane	1.884	101	2709	0.186	ppbv	96
13) Ethanol	1.725	45	8754	19.416	ppbv	94
15) Acetone	1.842	43	46647	3.112	ppbv	93
17) tert-Butyl alcohol	2.049	59	7709	0.518	ppbv	96
19) Isopropyl Alcohol	1.890	45	11560	1.285	ppbv #	30
20) Methylene Chloride	2.068	84	1379	0.323	ppbv #	76
25) Ethyl Acetate	2.852	43	11451	0.411	ppbv #	92
30) Cyclohexane	3.878	84	1918m	0.213	ppbv	
34) 2-Butanone	2.570	43	10728	0.691	ppbv	96
35) Carbon Tetrachloride	3.784	117	734m	0.054	ppbv	
36) Benzene	3.670	78	4321	0.217	ppbv	93
41) Tetrahydrofuran	3.075	42	5402	0.621	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	3553m	0.104	ppbv	
50) 4-Methyl-2-Pentanone	5.797	43	4749m	0.225	ppbv	
53) Toluene	6.956	91	82132	3.631	ppbv	99
57) Chlorobenzene	8.937	112	2231m	0.118	ppbv	
58) Ethyl Benzene	9.367	91	11534	0.346	ppbv	95
59) m/p-Xylene	9.545	91	34427m	1.284	ppbv	
60) o-Xylene	9.979	91	13407	0.499	ppbv	96
61) Styrene	9.882	104	3334	0.287	ppbv	99

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

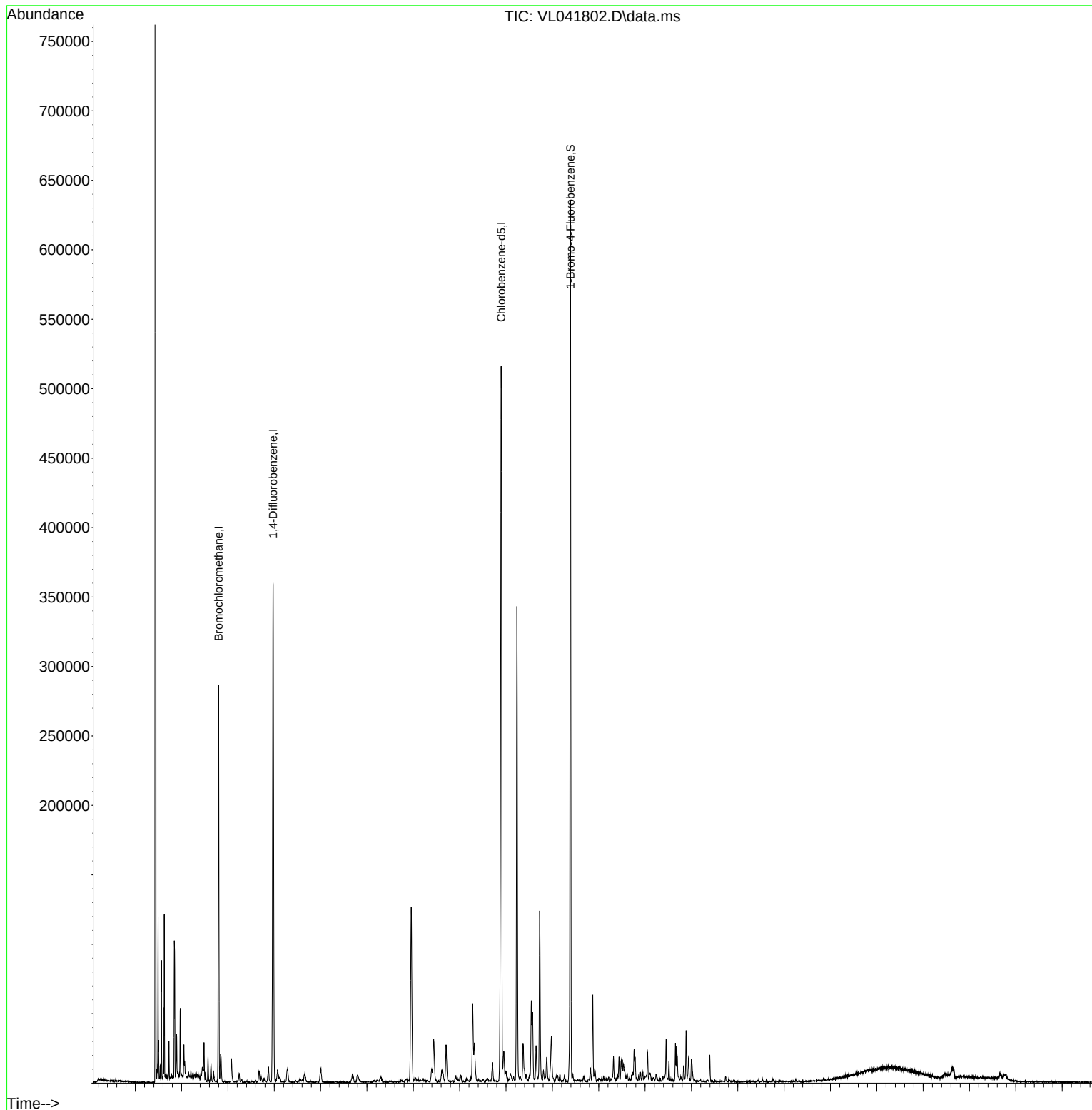
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041802.D
Acq On : 18 Dec 2024 19:58
Operator : SY/MD
Sample : P5294-01
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

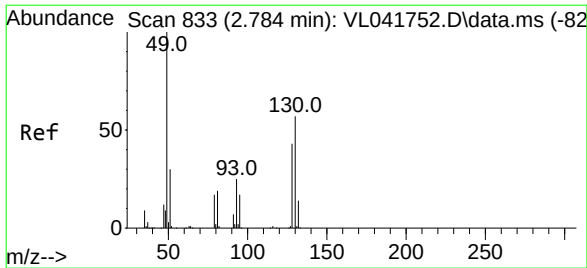
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

Manual Integrations
APPROVED

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

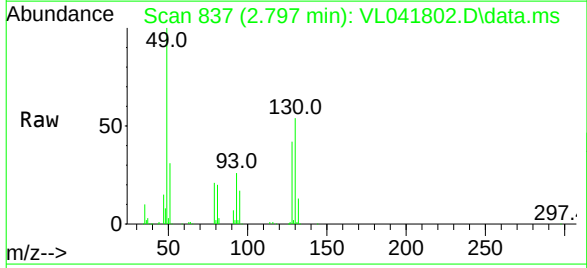
Quant Time: Dec 19 07:58:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

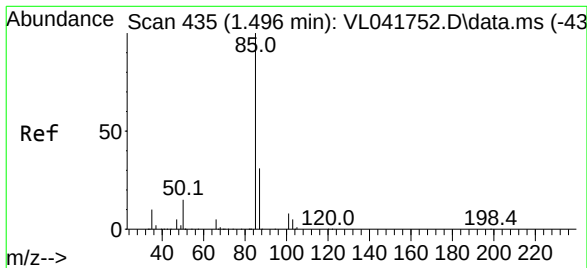
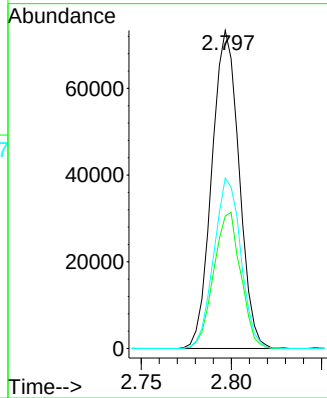
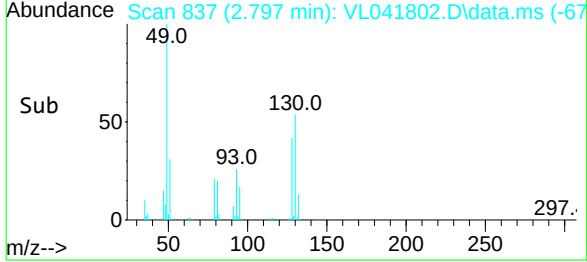
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 49 Resp: 77034
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.6
130 53.1 28.3 85.0

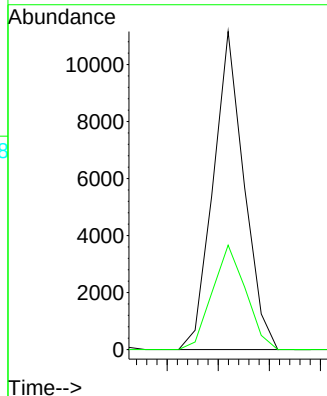
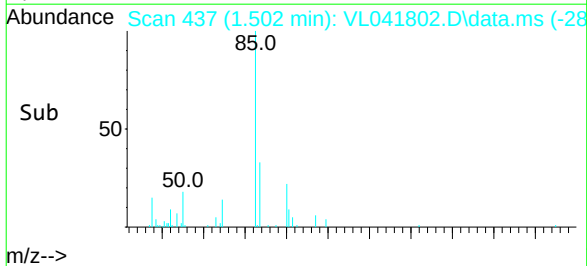
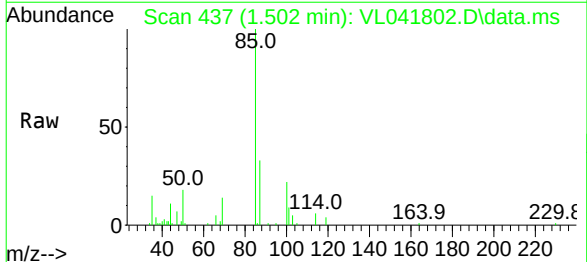
Manual Integrations
APPROVED

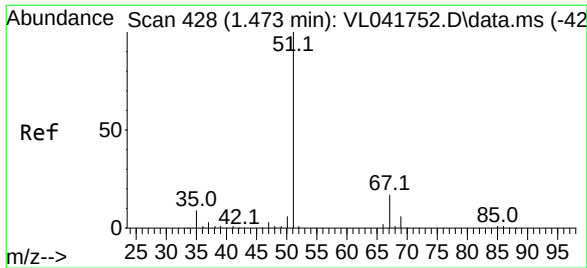
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 0.342 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

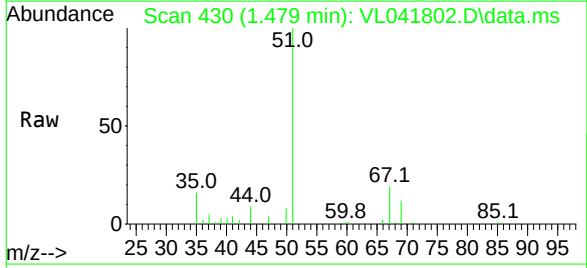
Tgt Ion: 85 Resp: 4687
Ion Ratio Lower Upper
85 100
87 32.8 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.252 ppbv m
RT: 1.479 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

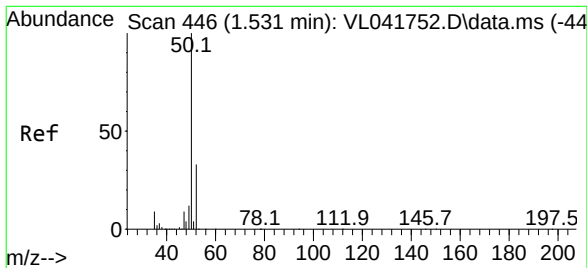
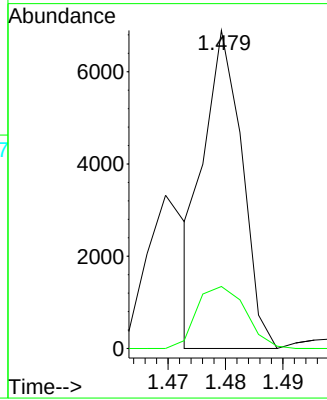
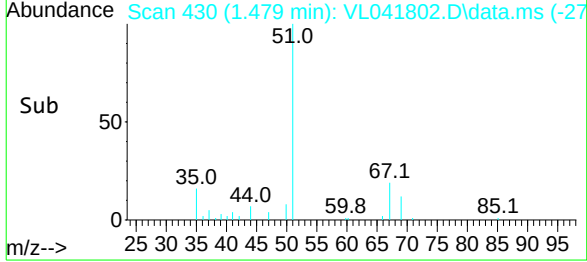
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 51 Resp: 3166
Ion Ratio Lower Upper
51 100
67 3.3 15.0 22.4#

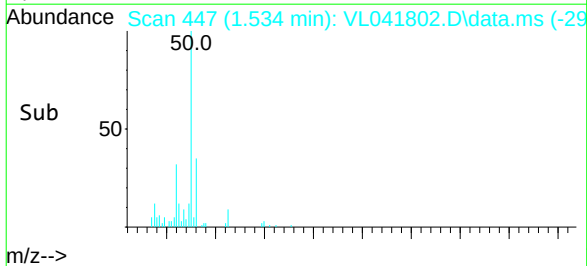
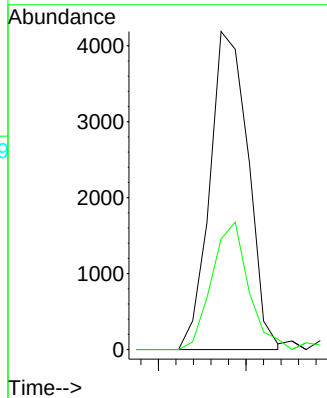
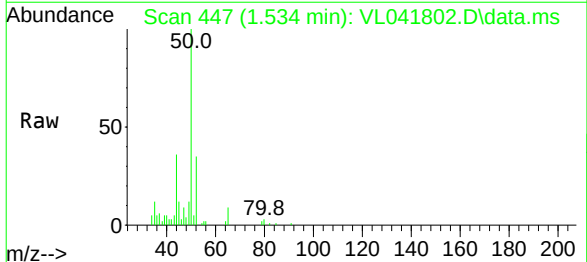
Manual Integrations
APPROVED

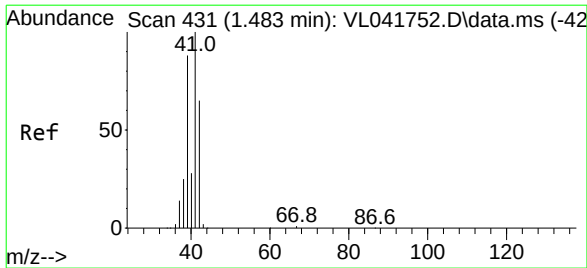
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#4
Chloromethane
Concen: 0.474 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

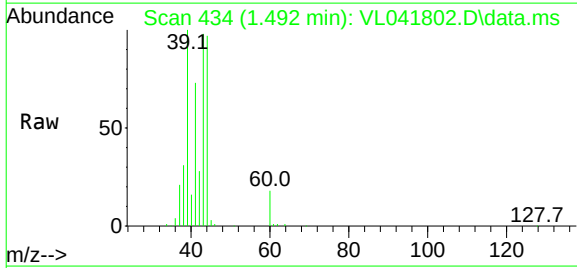
Tgt Ion: 50 Resp: 2543
Ion Ratio Lower Upper
50 100
52 34.8 26.2 39.2





#9
Propene
Concen: 1.698 ppbv m
RT: 1.492 min Scan# 431
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

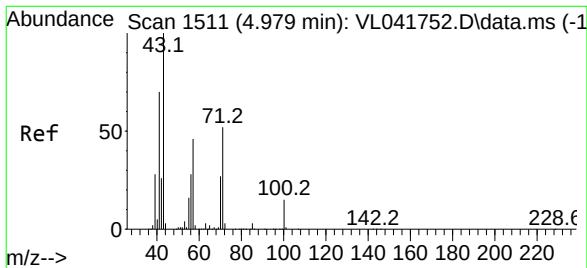
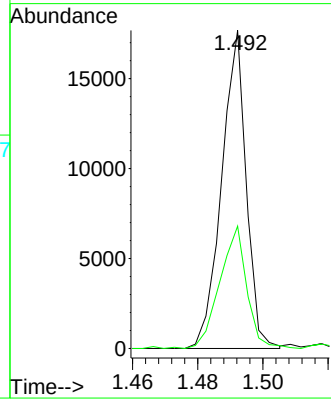
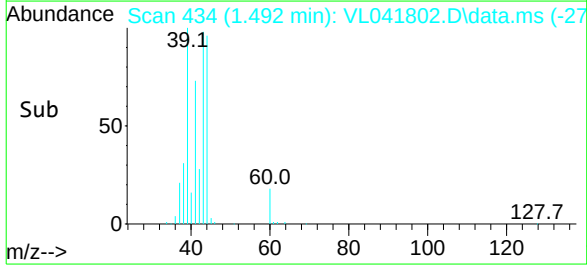
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



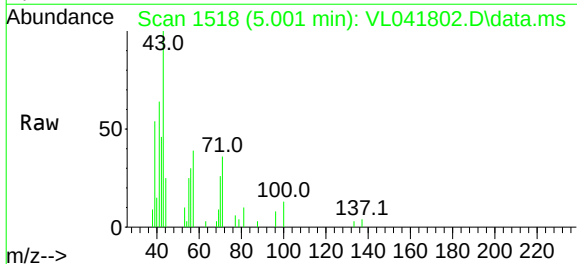
Tgt Ion: 41 Resp: 9245
Ion Ratio Lower Upper
41 100
42 5.4 52.4 78.6#

Manual Integrations
APPROVED

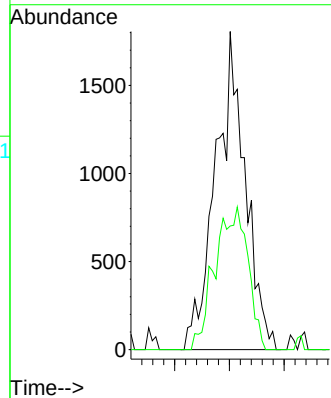
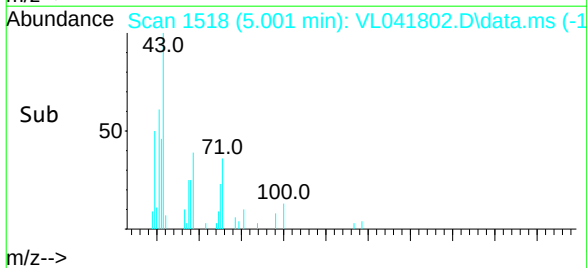
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

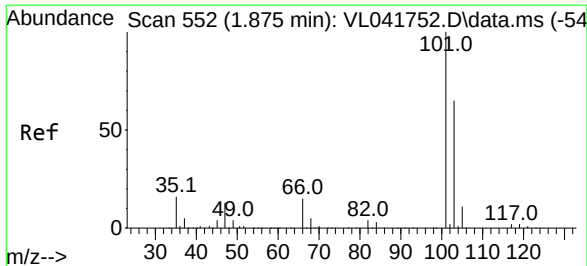


#10
Heptane
Concen: 0.243 ppbv m
RT: 5.001 min Scan# 1518
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



Tgt Ion: 43 Resp: 3400
Ion Ratio Lower Upper
43 100
57 49.9 38.5 57.7





#11

Trichlorofluoromethane

Concen: 0.186 ppbv

RT: 1.884 min Scan# 55

Delta R.T. 0.009 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

Tgt Ion:101 Resp: 2709

Ion Ratio Lower Upper

101 100

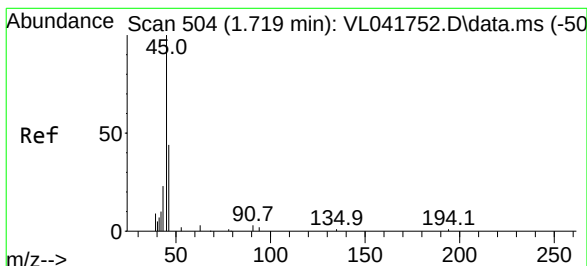
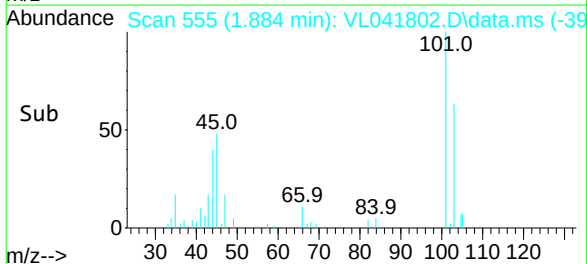
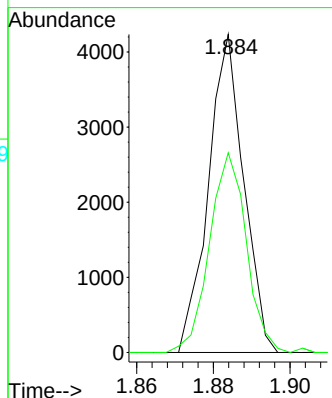
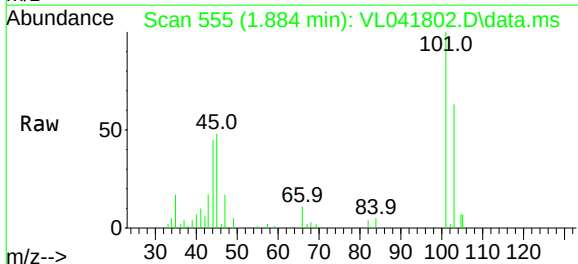
103 61.5 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#13

Ethanol

Concen: 19.416 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041802.D

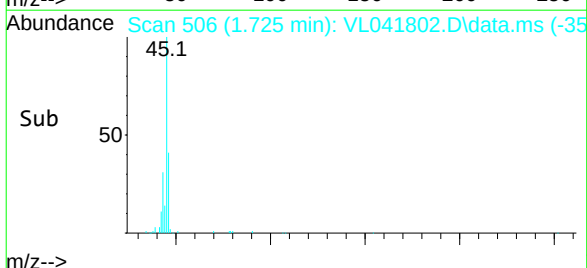
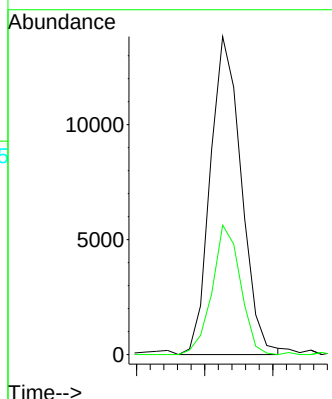
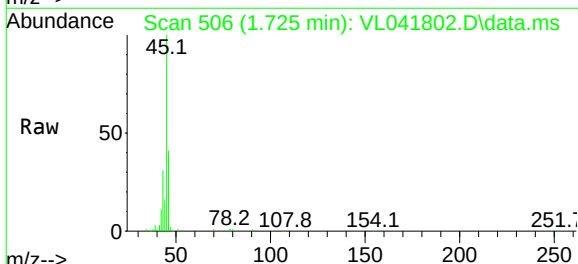
Acq: 18 Dec 2024 19:58

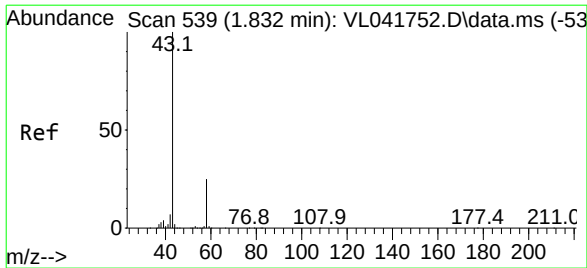
Tgt Ion: 45 Resp: 8754

Ion Ratio Lower Upper

45 100

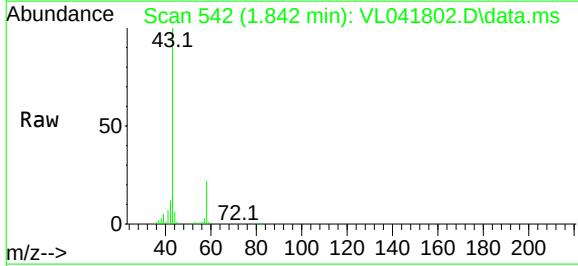
46 37.5 16.4 65.8





#15
Acetone
Concen: 3.112 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

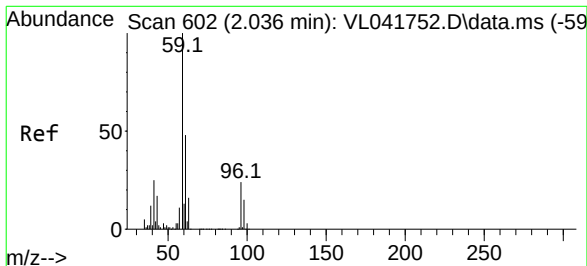
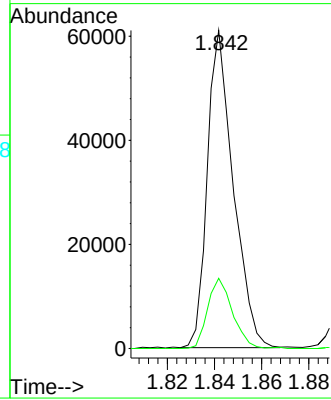
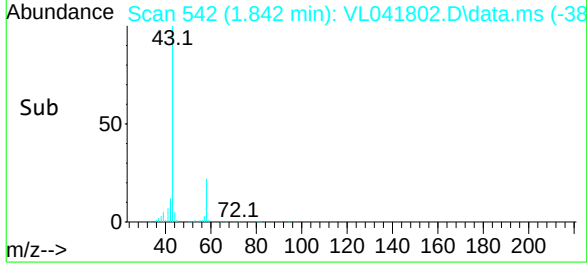
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 43 Resp: 46647
Ion Ratio Lower Upper
43 100
58 21.2 19.7 29.5

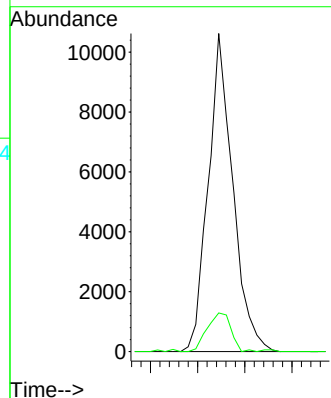
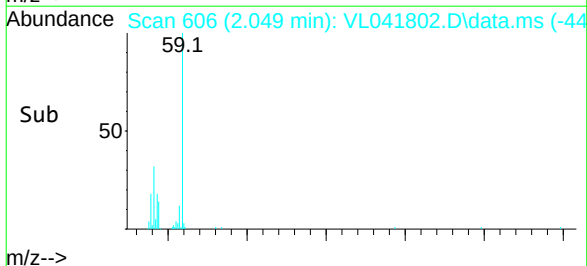
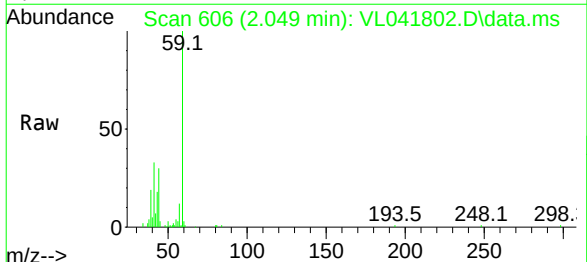
Manual Integrations
APPROVED

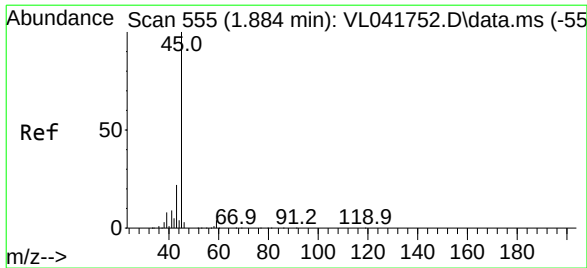
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#17
tert-Butyl alcohol
Concen: 0.518 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 59 Resp: 7709
Ion Ratio Lower Upper
59 100
57 12.4 8.6 13.0





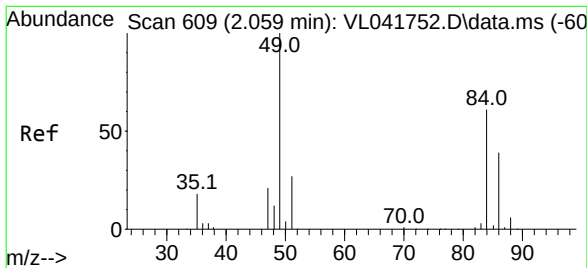
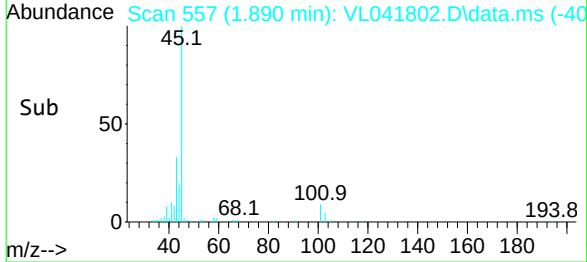
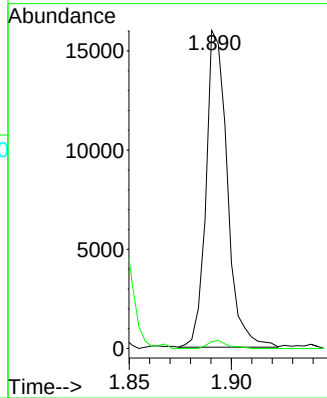
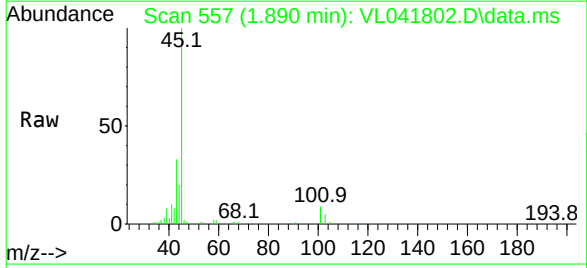
#19
Isopropyl Alcohol
Concen: 1.285 ppbv
RT: 1.890 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :
C0AB6

Tgt Ion: 45 Resp: 11560
Ion Ratio Lower Upper
45 100
58 85.6 33.3 49.9#

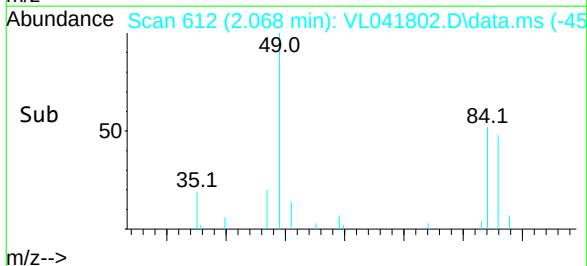
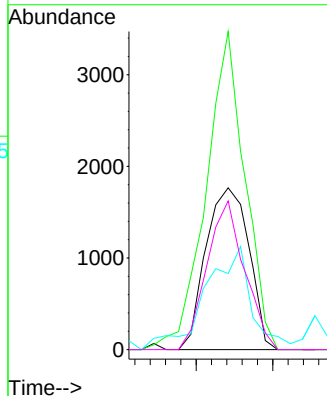
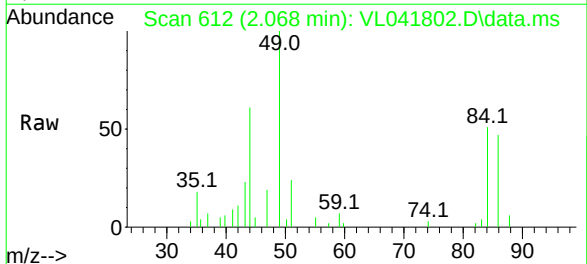
Manual Integrations
APPROVED

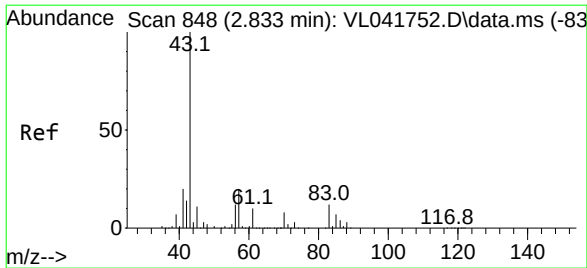
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#20
Methylene Chloride
Concen: 0.323 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

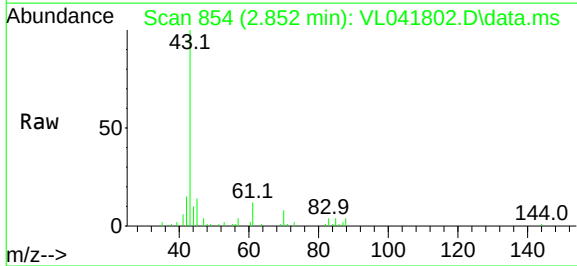
Tgt Ion: 84 Resp: 1379
Ion Ratio Lower Upper
84 100
49 196.6 132.6 198.8
51 38.9 37.6 56.4
86 91.9 51.4 77.0#





#25
Ethyl Acetate
Concen: 0.411 ppbv
RT: 2.852 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

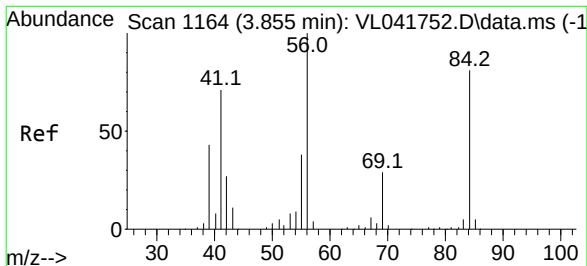
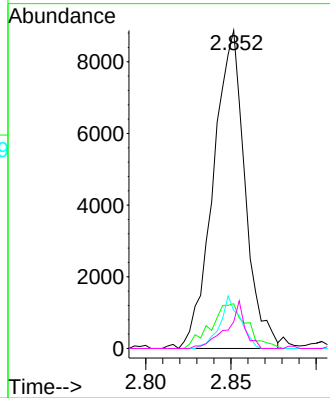
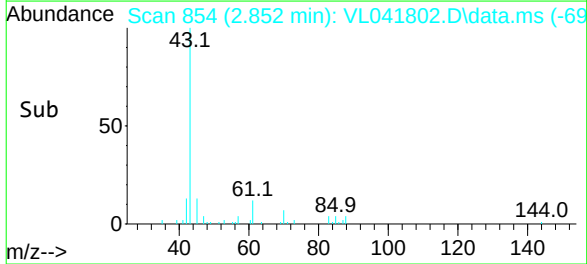
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion	Ratio	Lower	Upper
43	100		
45	16.1	8.1	12.1
61	10.7	7.0	10.6
70	8.5	6.5	9.7

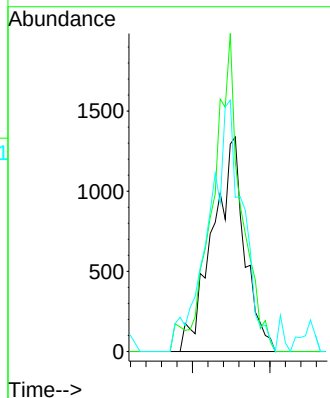
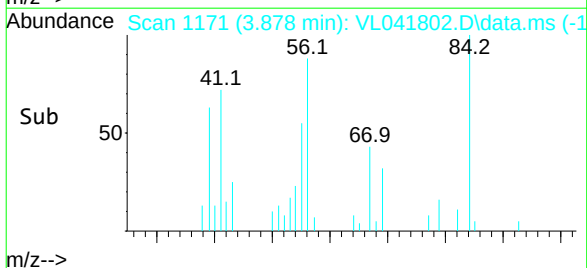
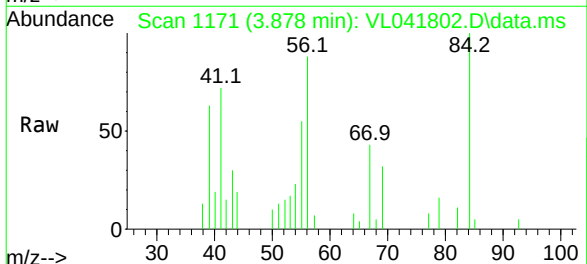
Manual Integrations
APPROVED

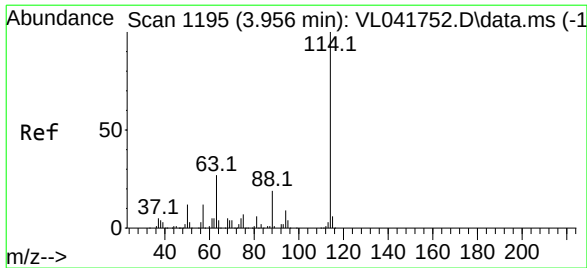
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#30
Cyclohexane
Concen: 0.213 ppbv m
RT: 3.878 min Scan# 1171
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

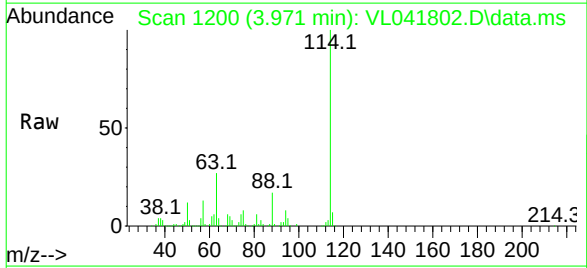
Tgt Ion	Ratio	Lower	Upper
84	100		
56	132.7	102.3	153.5
41	128.6	74.0	111.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 12
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

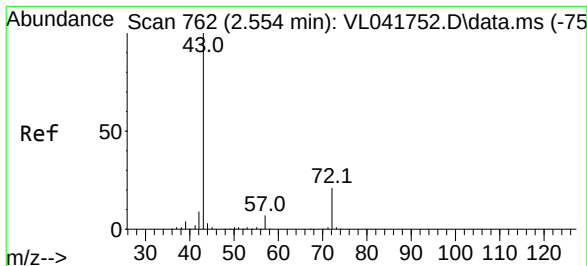
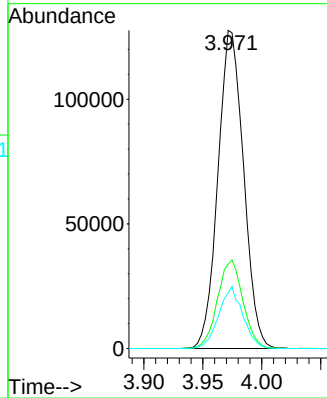
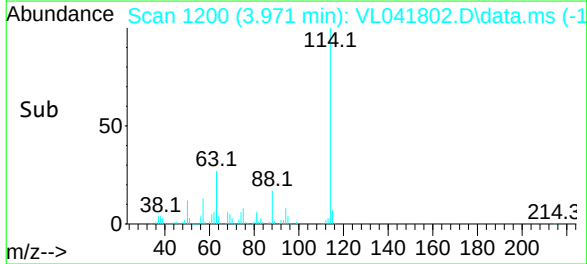
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt Ion: 114 Resp: 192884
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.8
88 18.2 14.8 22.2

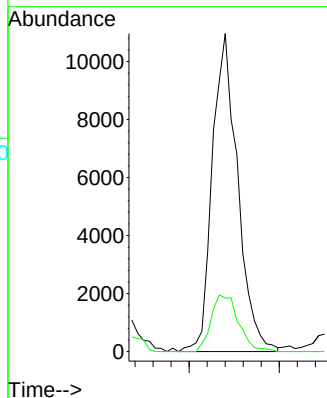
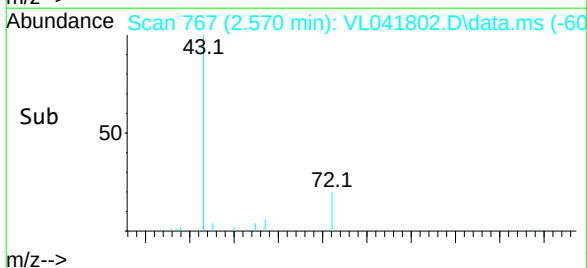
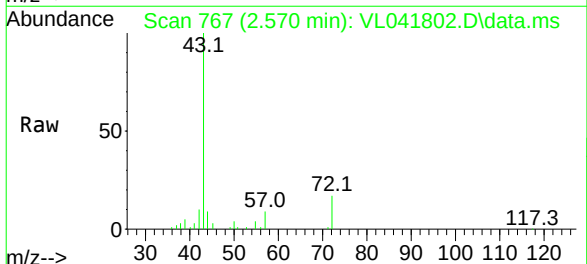
Manual Integrations
APPROVED

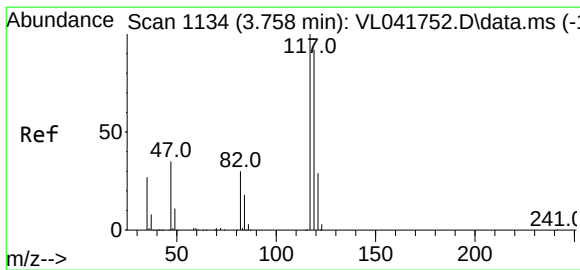
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 0.691 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

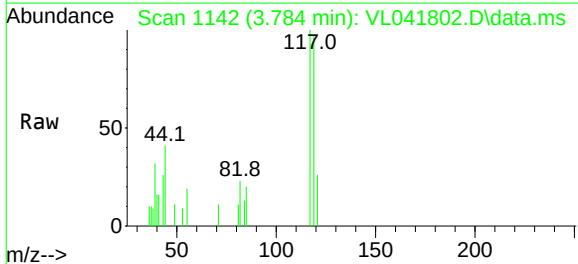
Tgt Ion: 43 Resp: 10728
Ion Ratio Lower Upper
43 100
72 19.2 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 3.784 min Scan# 11
Delta R.T. 0.025 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

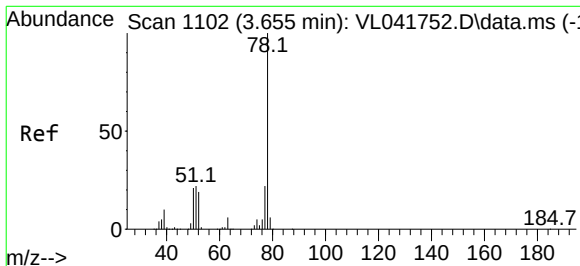
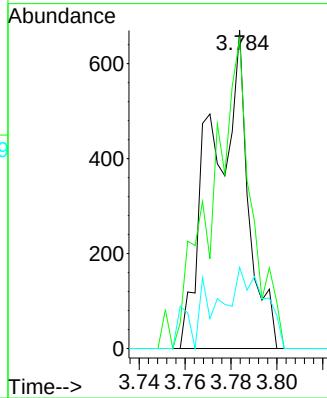
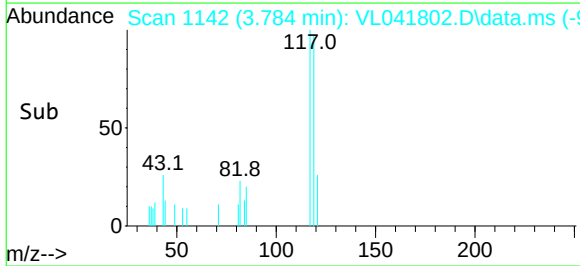
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



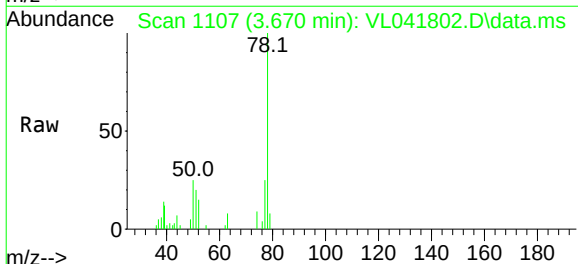
Tgt Ion: 117 Resp: 734
Ion Ratio Lower Upper
117 100
119 97.3 73.7 110.5
121 25.5 23.0 34.4

Manual Integrations
APPROVED

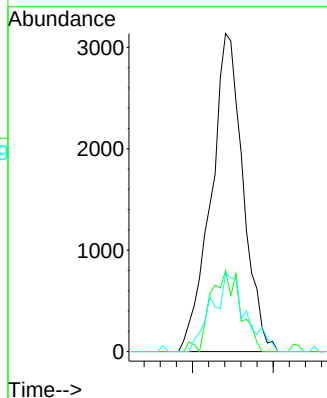
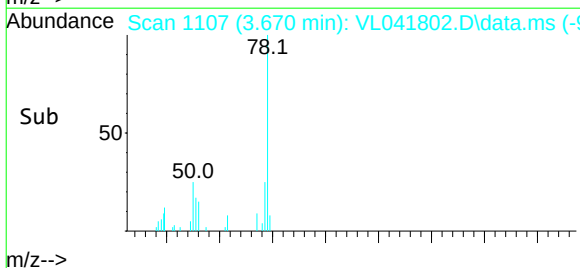
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

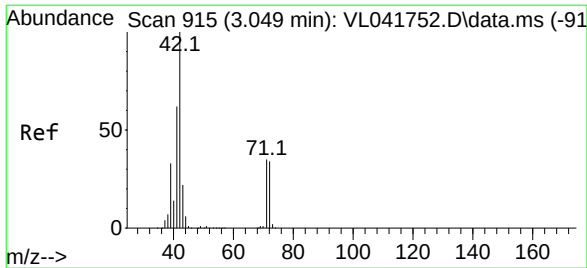


#36
Benzene
Concen: 0.217 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



Tgt Ion: 78 Resp: 4321
Ion Ratio Lower Upper
78 100
77 25.4 17.8 26.6
50 24.7 17.2 25.8





#41

Tetrahydrofuran

Concen: 0.621 ppbv

RT: 3.075 min Scan# 92

Delta R.T. 0.025 min

Lab File: VL041802.D

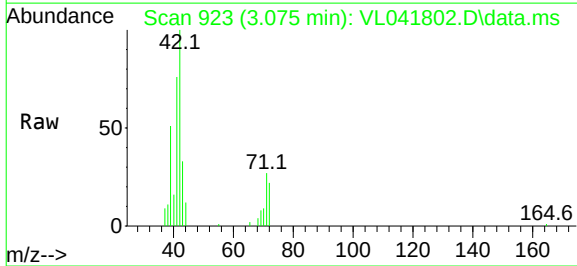
Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

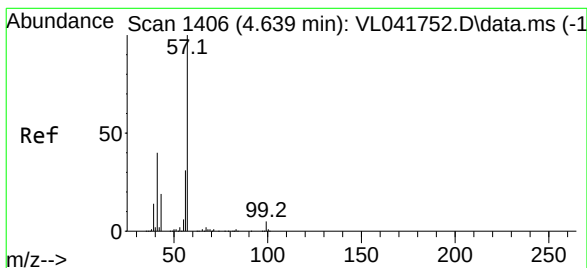
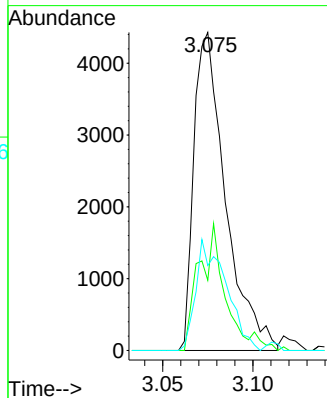
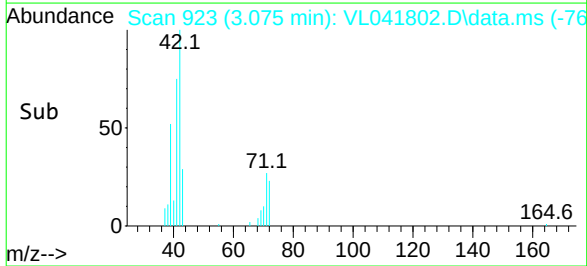


Tgt Ion:	42	Resp:	5402
Ion	Ratio	Lower	Upper
42	100		
72	33.8	29.1	43.7
71	34.3	28.4	42.6

Manual Integrations

APPROVED

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



#44

2,2,4-Trimethylpentane

Concen: 0.104 ppbv m

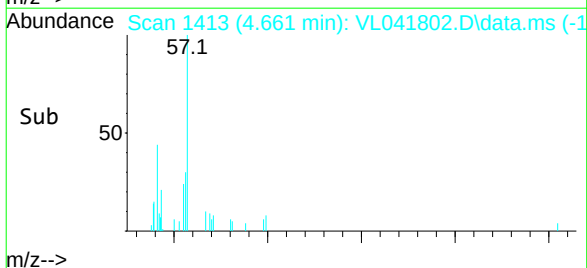
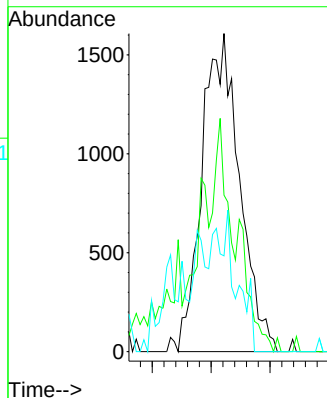
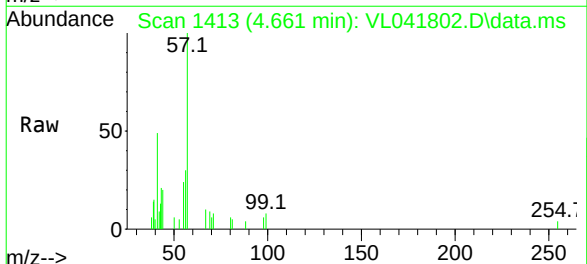
RT: 4.661 min Scan# 1413

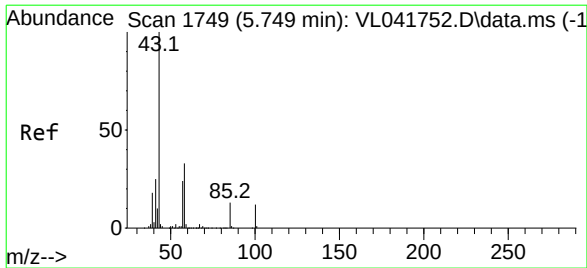
Delta R.T. 0.022 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Tgt Ion:	57	Resp:	3553
Ion	Ratio	Lower	Upper
57	100		
41	81.1	30.7	46.1#
56	56.3	25.4	38.0#





#50

4-Methyl-2-Pentanone

Concen: 0.225 ppbv m

RT: 5.797 min Scan# 1749

Delta R.T. 0.048 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

Tgt Ion: 43 Resp: 4749

Ion Ratio Lower Upper

43 100

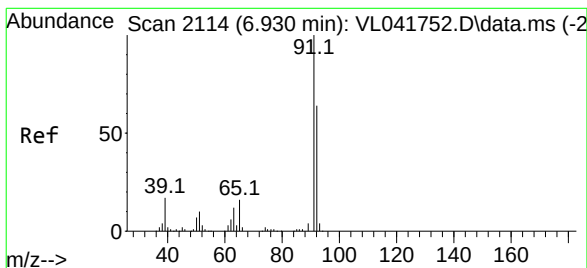
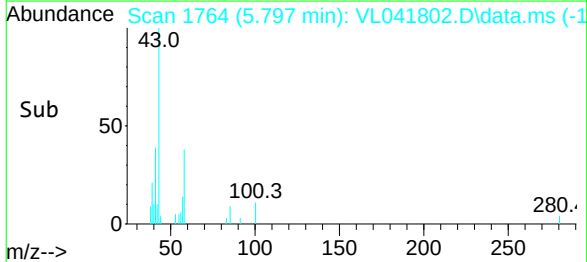
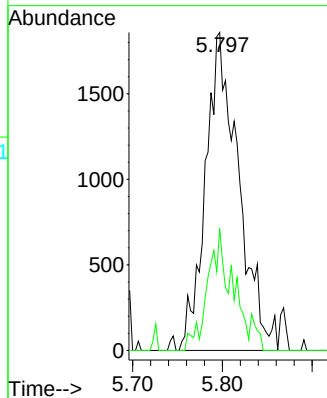
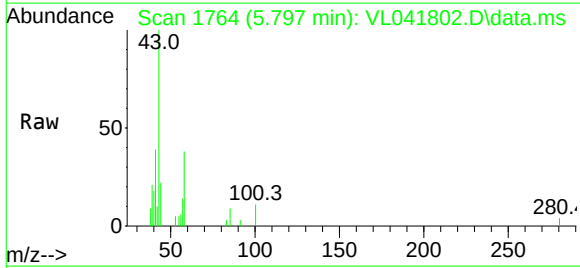
58 0.0 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#53

Toluene

Concen: 3.631 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.025 min

Lab File: VL041802.D

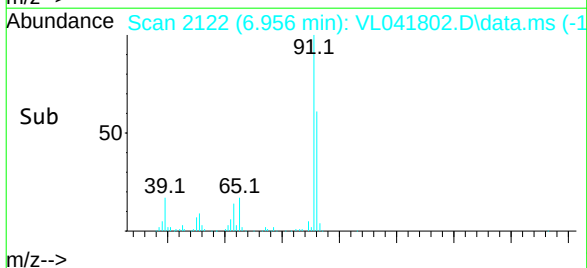
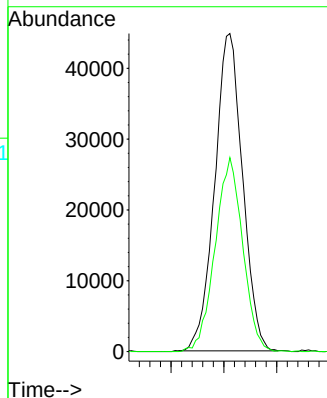
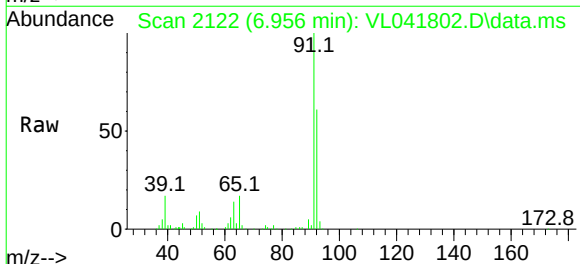
Acq: 18 Dec 2024 19:58

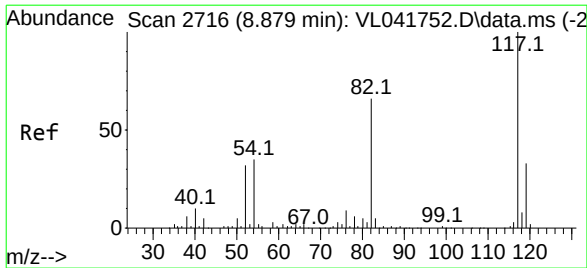
Tgt Ion: 91 Resp: 82132

Ion Ratio Lower Upper

91 100

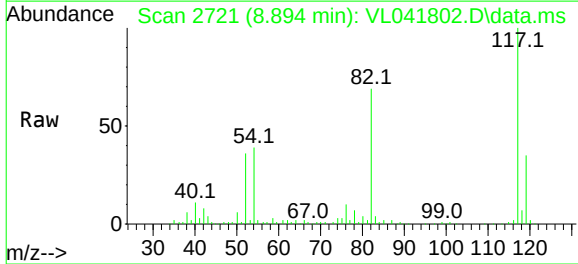
92 60.6 47.9 71.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2716
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

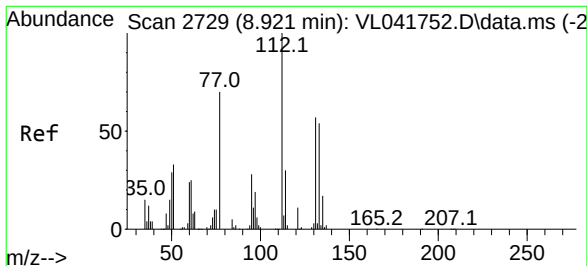
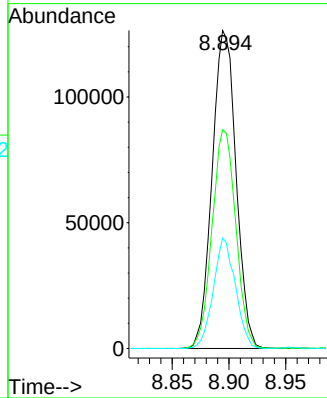
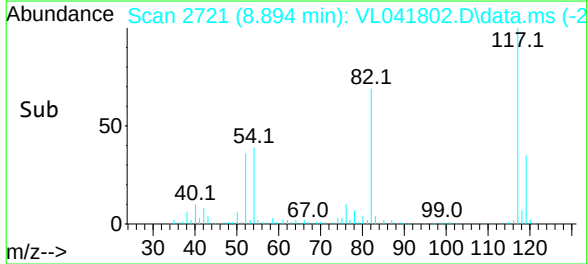
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



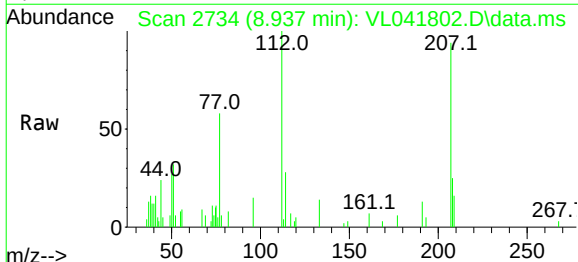
Tgt Ion:117 Resp: 185181
Ion Ratio Lower Upper
117 100
82 68.5 53.8 80.8
119 32.1 26.7 40.1

Manual Integrations
APPROVED

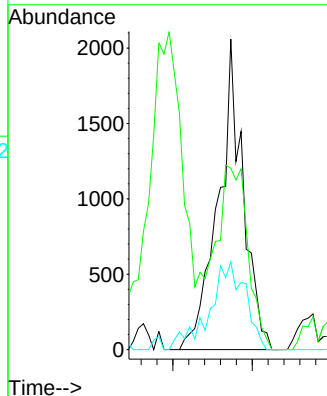
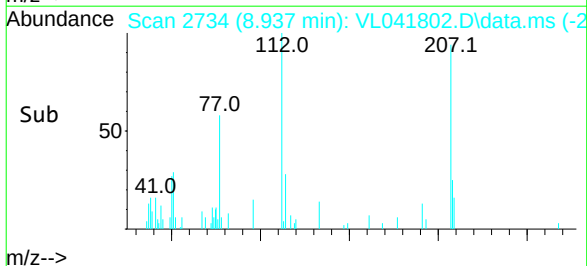
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

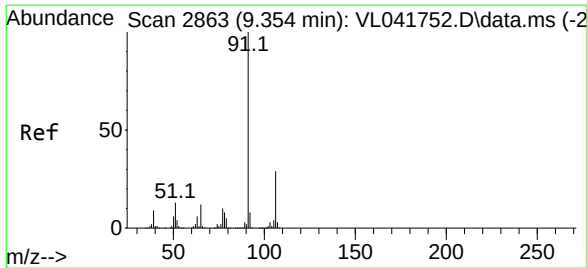


#57
Chlorobenzene
Concen: 0.118 ppbv m
RT: 8.937 min Scan# 2734
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



Tgt Ion:112 Resp: 2231
Ion Ratio Lower Upper
112 100
77 58.4 57.4 86.0
114 28.2 27.4 33.4





#58

Ethyl Benzene

Concen: 0.346 ppbv

RT: 9.367 min Scan# 2867

Delta R.T. 0.013 min

Lab File: VL041802.D

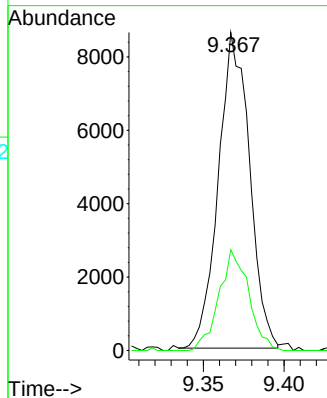
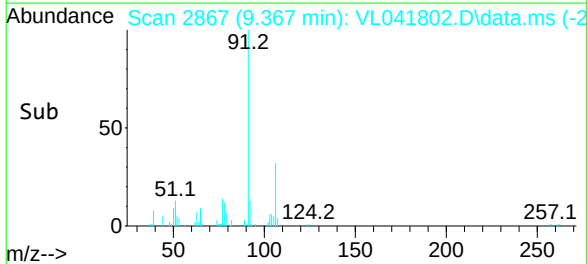
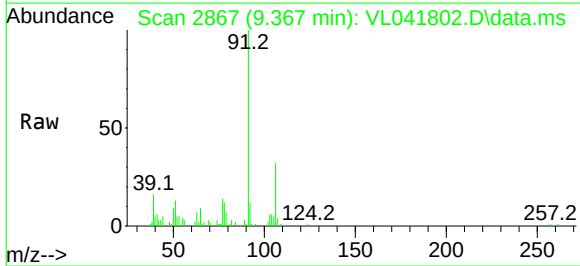
Acq: 18 Dec 2024 19:58

Tgt Ion: 91 Resp: 11534

Ion Ratio Lower Upper

91 100

106 31.9 23.5 35.3



Instrument :

MSVOA_L

ClientSampleId :

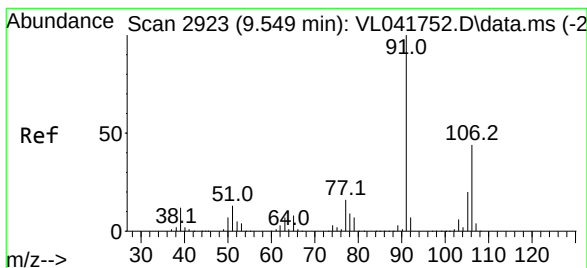
C0AB6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#59

m/p-Xylene

Concen: 1.284 ppbv m

RT: 9.545 min Scan# 2922

Delta R.T. -0.004 min

Lab File: VL041802.D

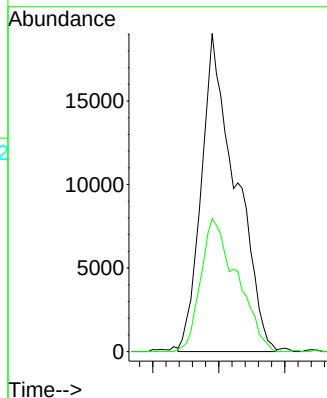
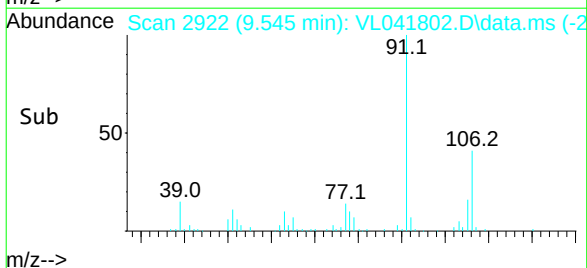
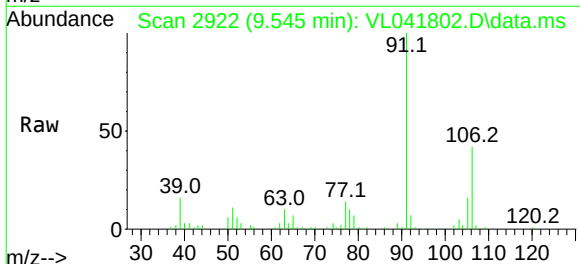
Acq: 18 Dec 2024 19:58

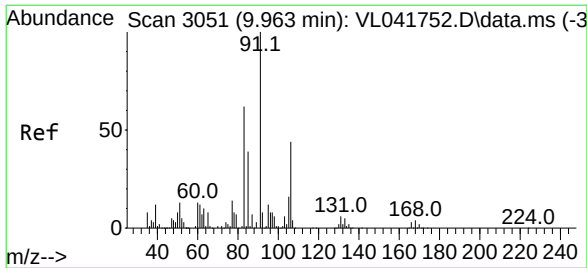
Tgt Ion: 91 Resp: 34427

Ion Ratio Lower Upper

91 100

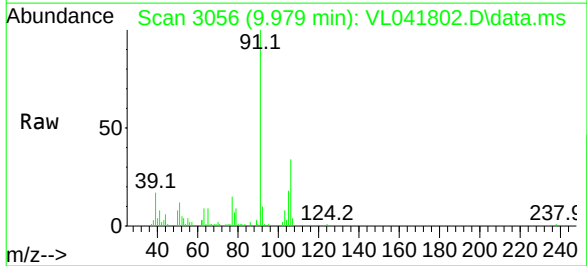
106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.499 ppbv
RT: 9.979 min Scan# 3051
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

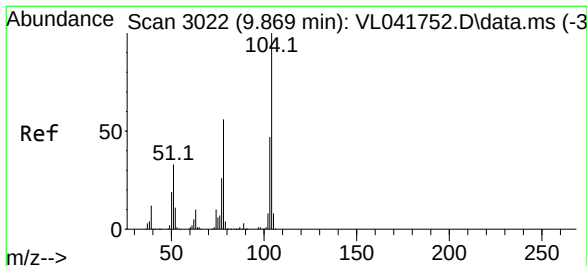
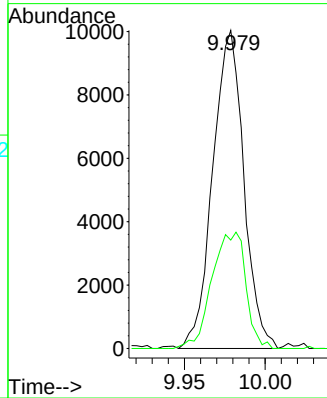
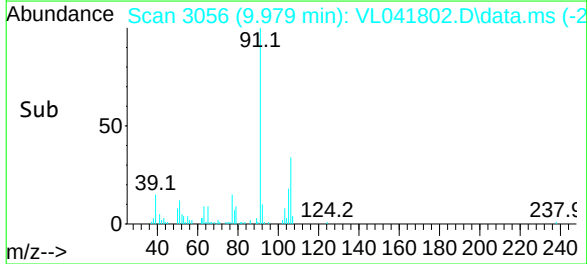
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



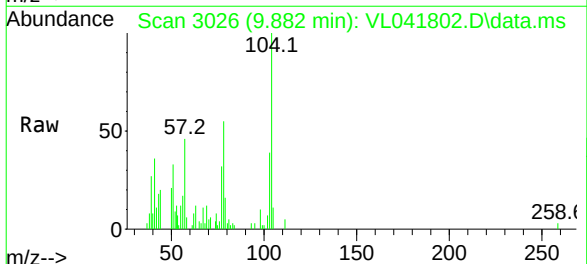
Tgt Ion: 91 Resp: 13407
Ion Ratio Lower Upper
91 100
106 39.9 21.1 63.4

Manual Integrations
APPROVED

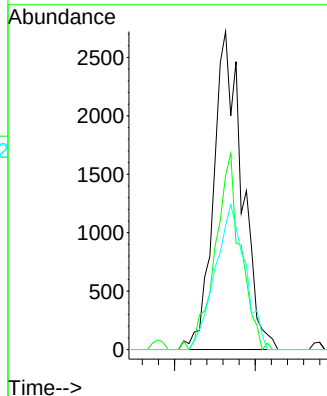
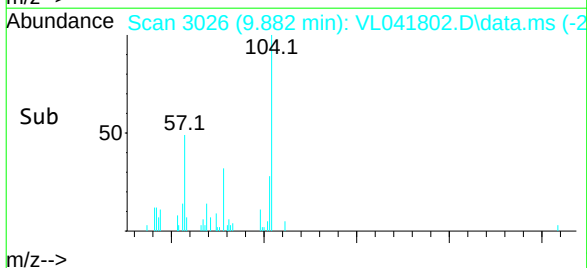
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

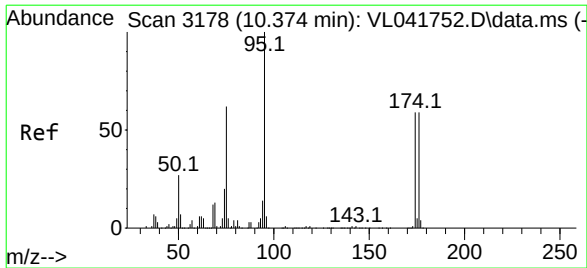


#61
Styrene
Concen: 0.287 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58



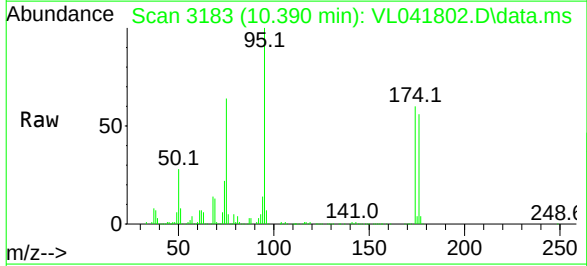
Tgt Ion:104 Resp: 3334
Ion Ratio Lower Upper
104 100
78 55.8 43.8 65.6
103 48.0 37.8 56.6





#68
1-Bromo-4-Fluorobenzene
Concen: 9.722 ppbv
RT: 10.390 min Scan# 3178
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

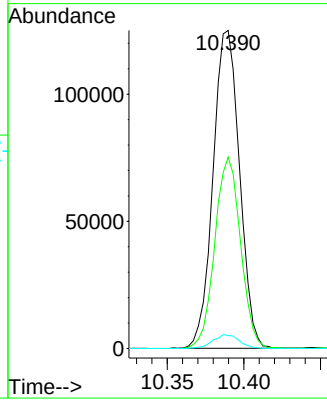
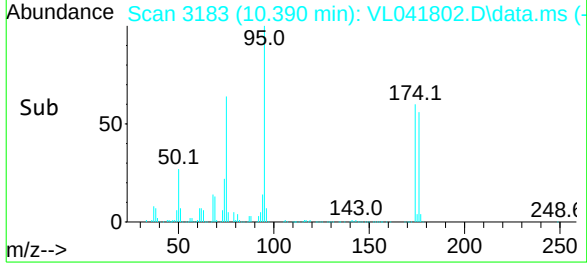
Instrument :
MSVOA_L
ClientSampleId :
C0AB6



Tgt	Ion: 95	Resp: 150031
Ion	Ratio	Lower Upper
95	100	
174	58.6	47.6 71.4
175	4.4	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:	C0AB7	SDG No.:	P5294
Lab Sample ID:	P5294-02	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
VL041803.D	1		12/18/24 20:32	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.36	1.78	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.67	1.38		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	0.66	2.00		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	8.60	20.4		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	0.45	1.56	J	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	0.45	1.33	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	0.30	1.47	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	0.18	0.84	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.32	1.02	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	0.60	2.26		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:	C0AB7	SDG No.:	P5294
Lab Sample ID:	P5294-02	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
VL041803.D	1		12/18/24 20:32	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	0.27	1.17	J	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	0.34	1.20	J	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	76700		2.793			
540-36-3	1,4-Difluorobenzene	188000		3.972			
3114-55-4	Chlorobenzene-d5	165000		8.894			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB7	SDG No.:	P5294
Lab Sample ID:	P5294-02	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
VL041803.D	1		12/18/24 20:32	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 : VL041803.D
 Acq On : 18 Dec 2024 20:32
 Operator : SY/MD
 Sample : P5294-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB7

Manual Integrations
 APPROVED

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

Quant Time: Dec 19 07:59:07 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	2.793	49	76658	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	187828	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	164998	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	139994	10.182	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	4836	0.355	ppbv	99
3) Chlorodifluoromethane	1.479	51	3460m	0.277	ppbv	
4) Chloromethane	1.534	50	3556	0.666	ppbv #	78
9) Propene	1.492	41	54201m	10.003	ppbv	
10) Heptane	4.994	43	1709m	0.123	ppbv	
11) Trichlorofluoromethane	1.884	101	2898	0.200	ppbv #	80
13) Ethanol	1.732	45	1977904	4408.380	ppbv	99
15) Acetone	1.839	43	128822	8.637	ppbv #	89
17) tert-Butyl alcohol	2.049	59	9710	0.656	ppbv #	71
19) Isopropyl Alcohol	1.890	45	155744	17.402	ppbv #	59
20) Methylene Chloride	2.065	84	1921	0.452	ppbv #	81
25) Ethyl Acetate	2.845	43	7001m	0.252	ppbv	
26) Hexane	2.835	57	3564	0.338	ppbv #	70
29) Chloroform	2.855	83	4772	0.297	ppbv #	82
30) Cyclohexane	3.865	84	971m	0.108	ppbv	
34) 2-Butanone	2.570	43	6833	0.452	ppbv	99
35) Carbon Tetrachloride	3.774	117	984m	0.074	ppbv	
36) Benzene	3.674	78	6297m	0.324	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	6046m	0.182	ppbv	
53) Toluene	6.949	91	13160	0.597	ppbv	99
59) m/p-Xylene	9.542	91	6469m	0.271	ppbv	
60) o-Xylene	9.976	91	2612	0.109	ppbv	97

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

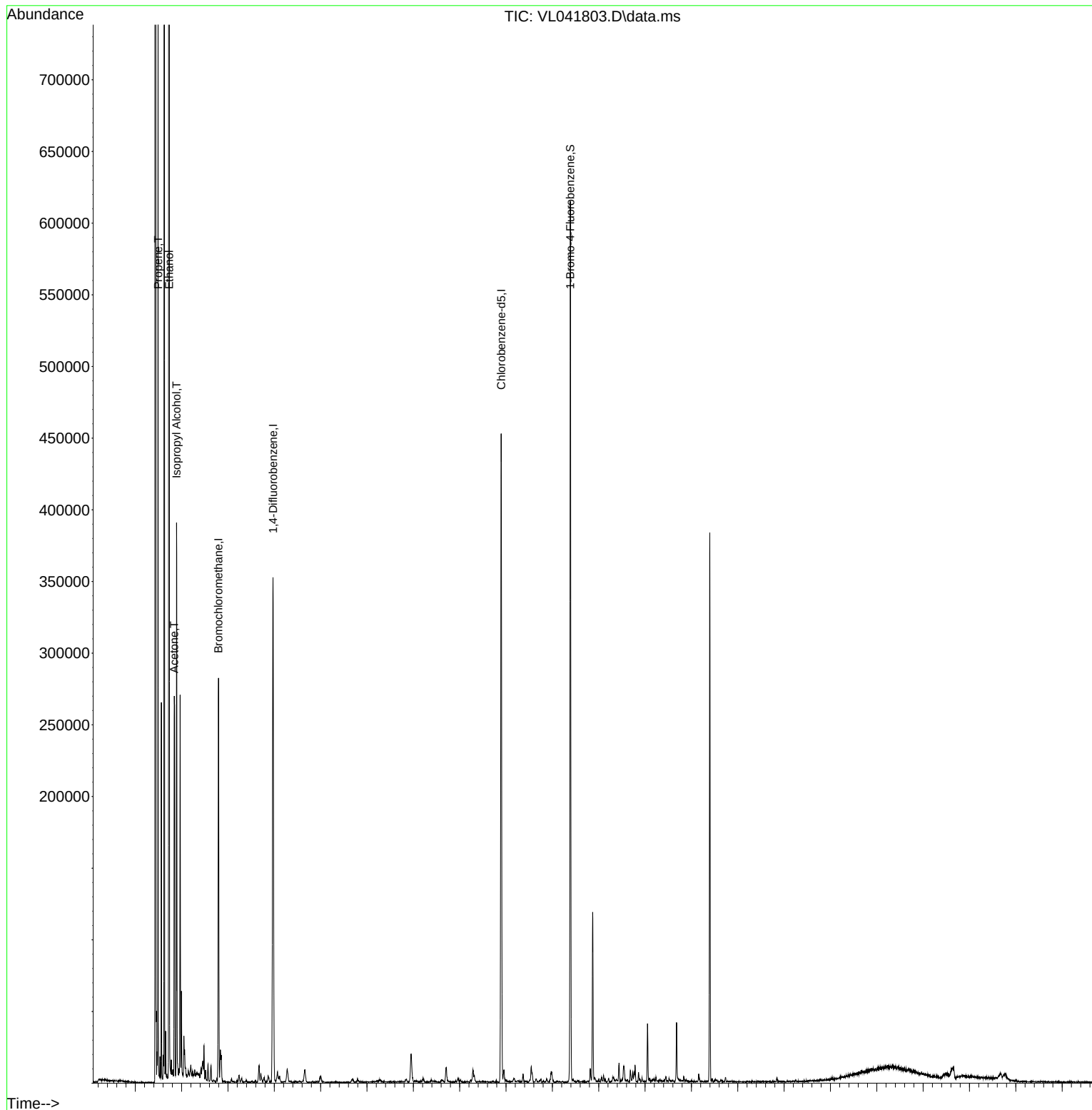
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041803.D
Acq On : 18 Dec 2024 20:32
Operator : SY/MD
Sample : P5294-02
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

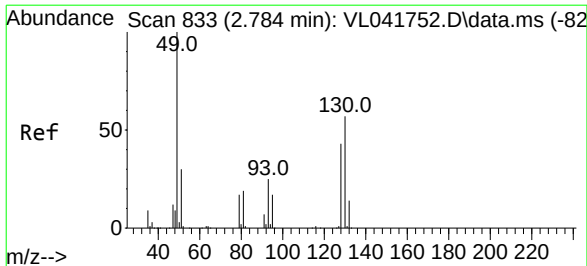
Instrument :
MSVOA_L
ClientSampleId :
C0AB7

Manual Integrations
APPROVED

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

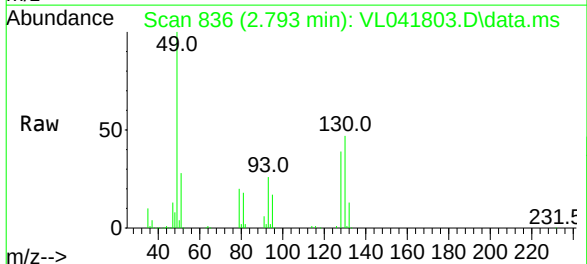
Quant Time: Dec 19 07:59:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

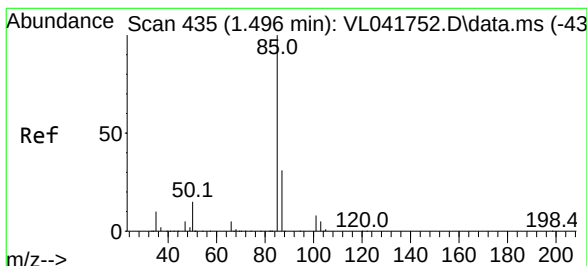
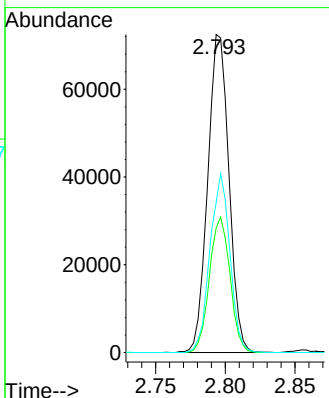
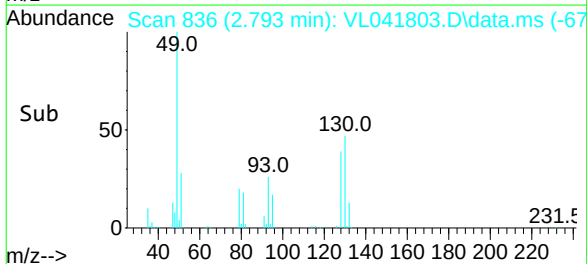
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



Tgt Ion: 49 Resp: 76658
Ion Ratio Lower Upper
49 100
128 41.2 21.6 64.6
130 52.9 28.3 85.0

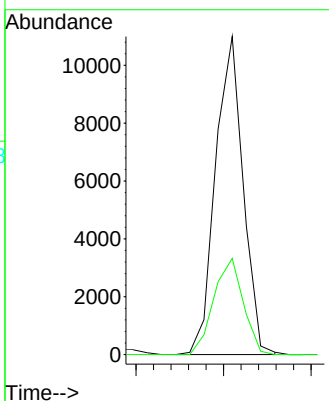
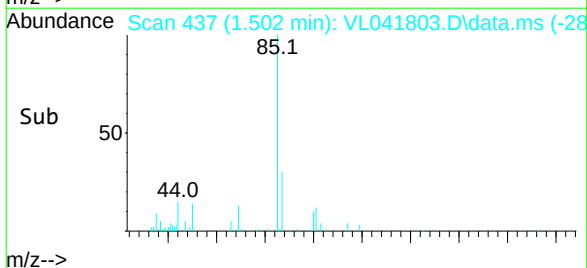
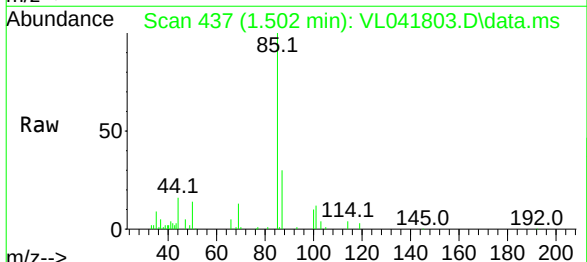
Manual Integrations
APPROVED

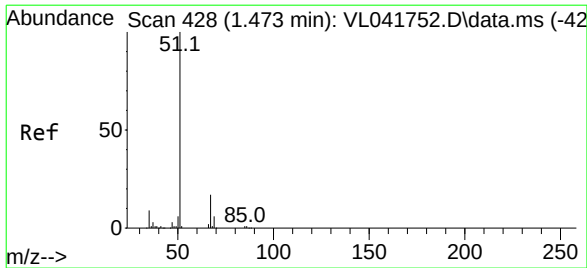
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#2
Dichlorodifluoromethane
Concen: 0.355 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

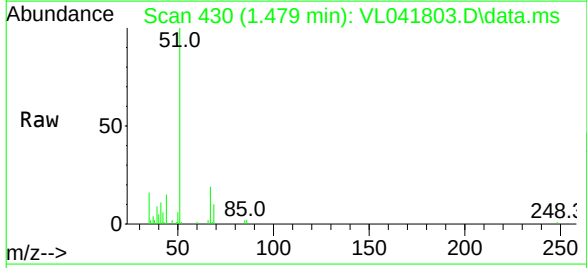
Tgt Ion: 85 Resp: 4836
Ion Ratio Lower Upper
85 100
87 30.2 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 1.479 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

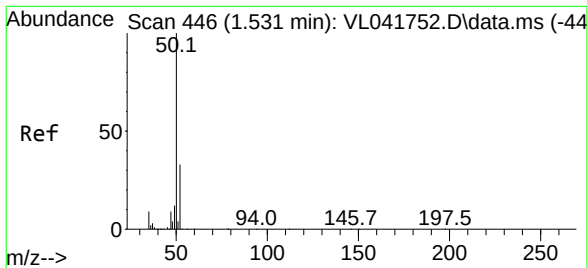
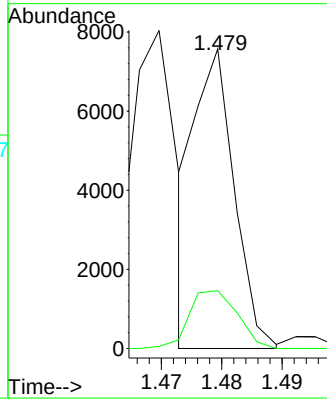
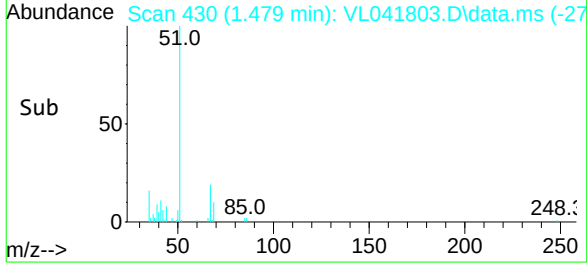
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



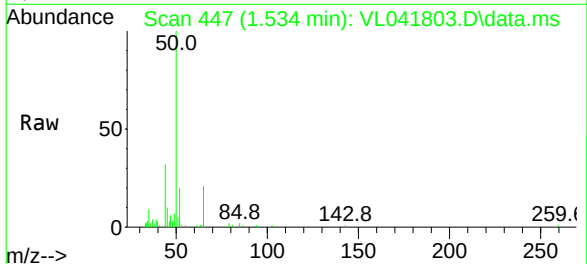
Tgt Ion: 51 Resp: 3460
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.4#

Manual Integrations
APPROVED

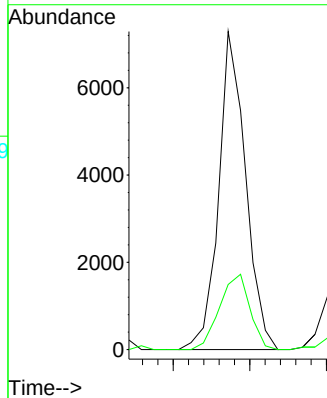
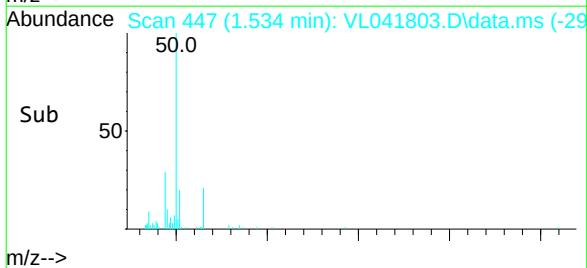
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

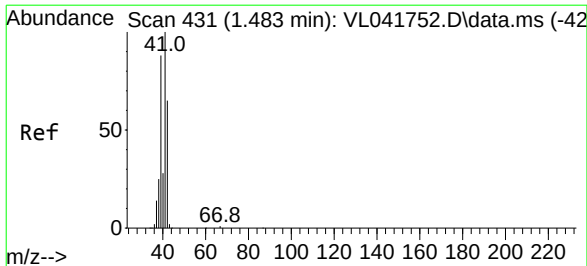


#4
Chloromethane
Concen: 0.666 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32



Tgt Ion: 50 Resp: 3556
Ion Ratio Lower Upper
50 100
52 20.5 26.2 39.2#





#9

Propene

Concen: 10.003 ppbv m

RT: 1.492 min Scan# 43

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

Tgt Ion: 41 Resp: 54201

Ion Ratio Lower Upper

41 100

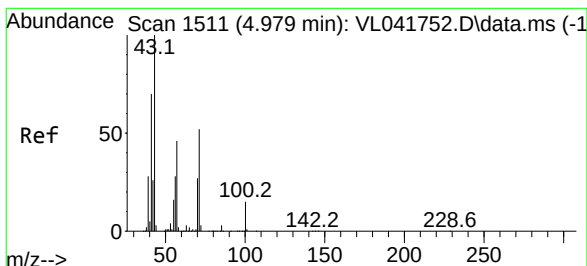
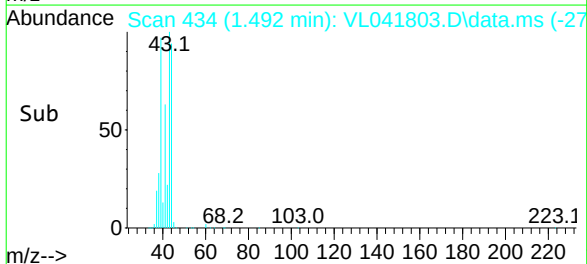
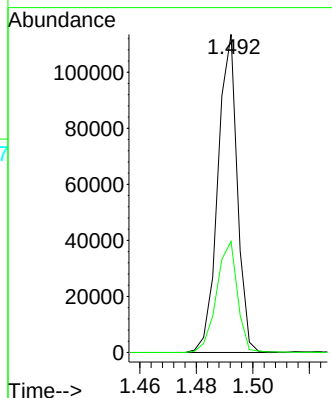
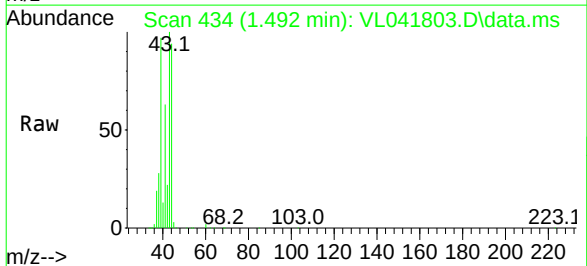
42 34.0 52.4 78.6#

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: 4.994 min Scan# 1516

Delta R.T. 0.016 min

Lab File: VL041803.D

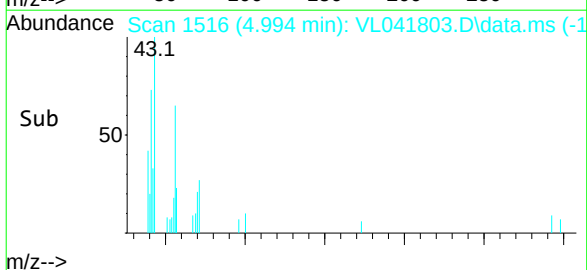
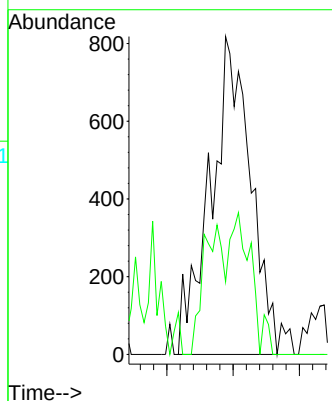
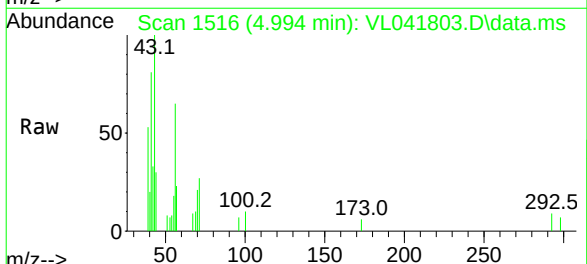
Acq: 18 Dec 2024 20:32

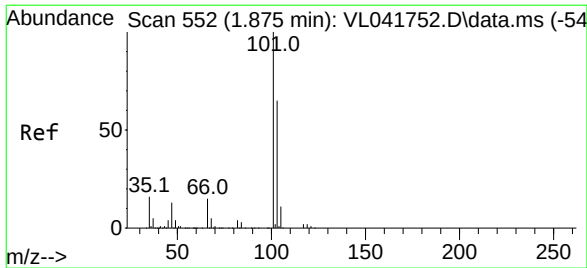
Tgt Ion: 43 Resp: 1709

Ion Ratio Lower Upper

43 100

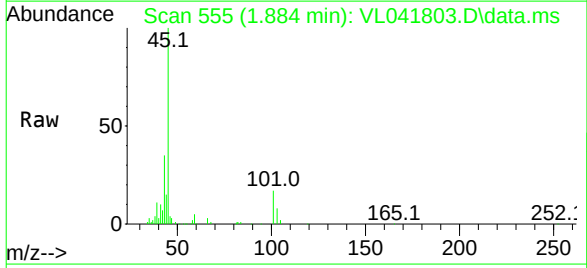
57 0.0 38.5 57.7#





#11
Trichlorofluoromethane
Concen: 0.200 ppbv
RT: 1.884 min Scan# 551
Delta R.T. 0.009 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

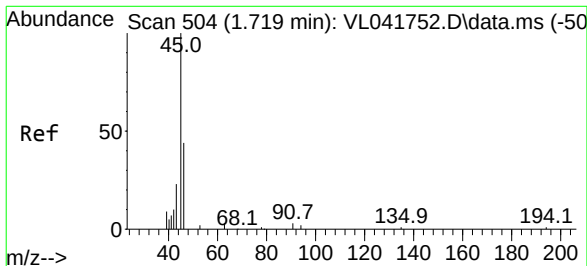
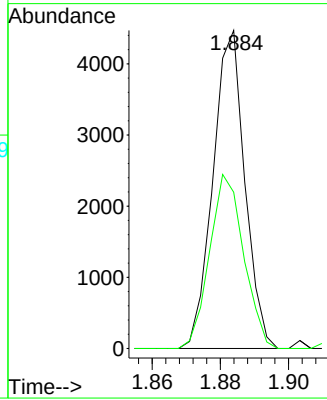
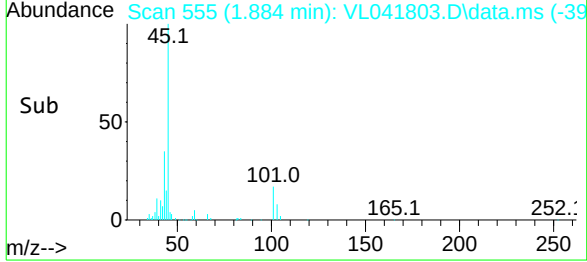
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



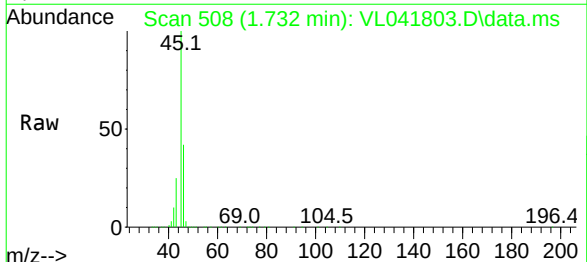
Tgt Ion:101 Resp: 2898
Ion Ratio Lower Upper
101 100
103 49.1 51.8 77.8#

Manual Integrations
APPROVED

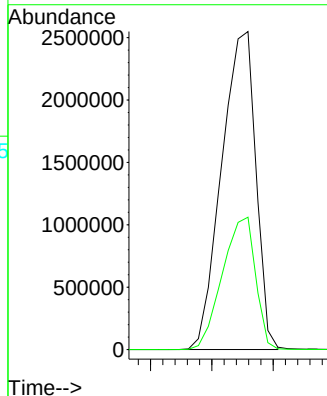
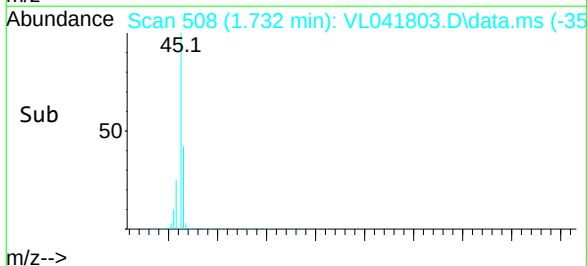
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

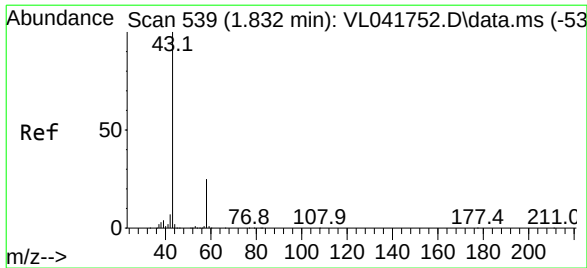


#13
Ethanol
Concen: 4408.380 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32



Tgt Ion: 45 Resp: 1977904
Ion Ratio Lower Upper
45 100
46 40.3 16.4 65.8





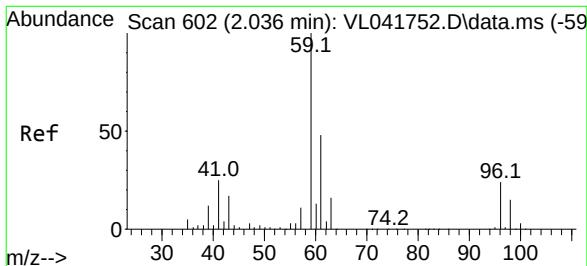
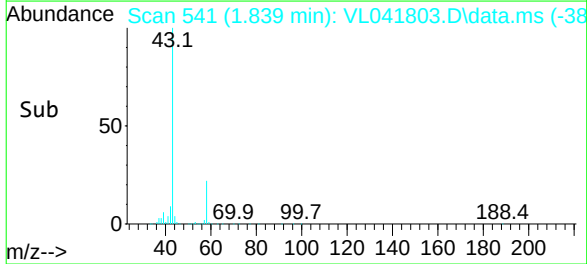
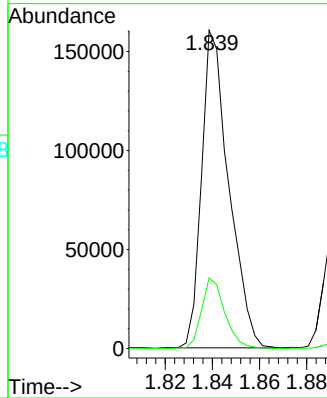
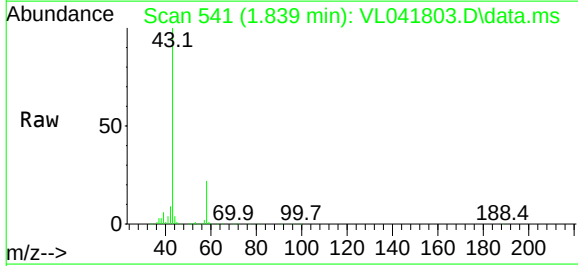
#15
Acetone
Concen: 8.637 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Instrument :
MSVOA_L
ClientSampleId :
C0AB7

Tgt Ion: 43 Resp: 128822
Ion Ratio Lower Upper
43 100
58 19.0 19.7 29.5#

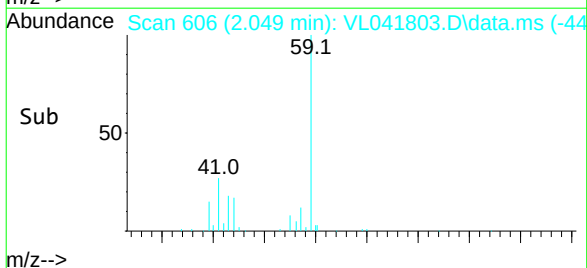
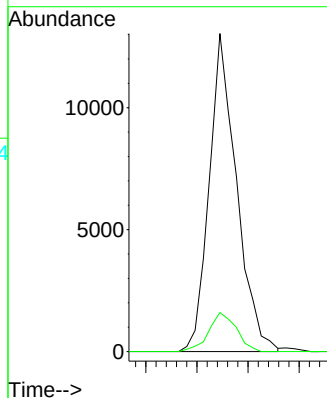
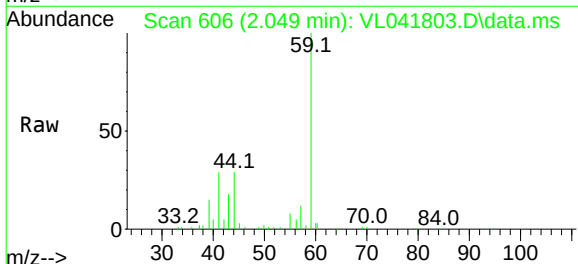
Manual Integrations
APPROVED

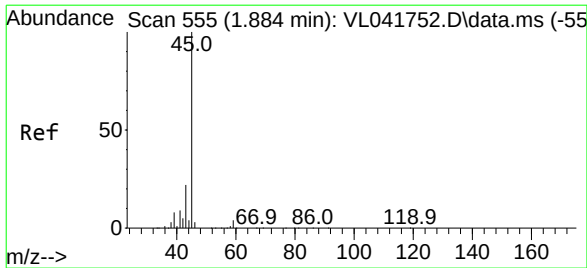
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#17
tert-Butyl alcohol
Concen: 0.656 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion: 59 Resp: 9710
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





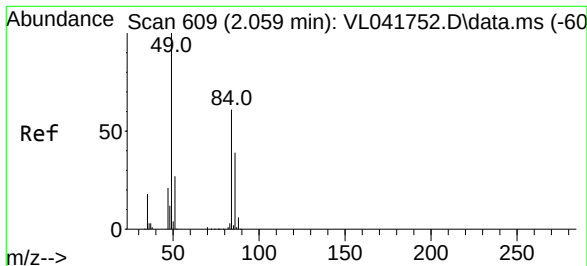
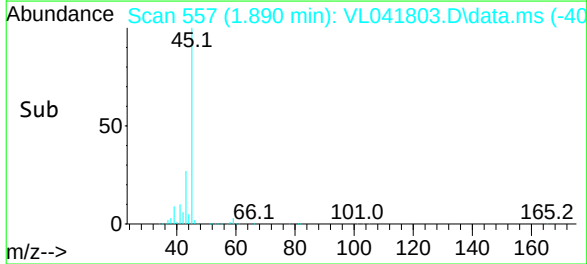
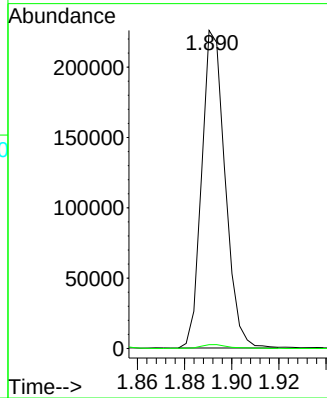
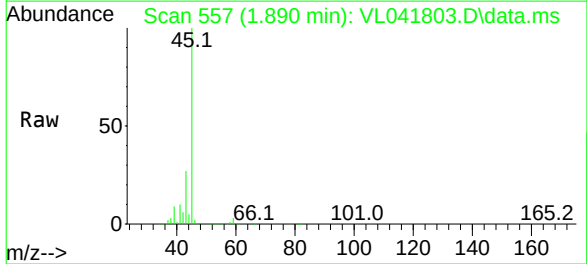
#19
Isopropyl Alcohol
Concen: 17.402 ppbv
RT: 1.890 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Instrument :
MSVOA_L
ClientSampleId :
C0AB7

Tgt Ion: 45 Resp: 155744
Ion Ratio Lower Upper
45 100
58 15.7 33.3 49.9#

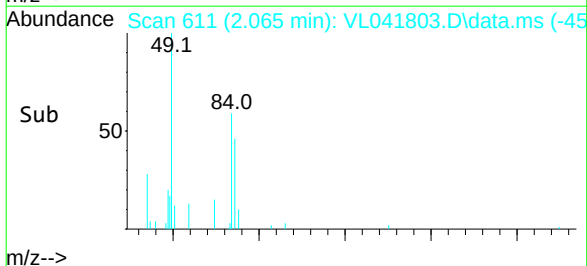
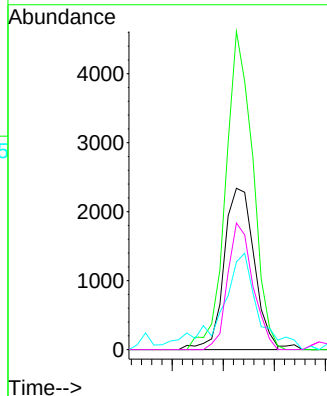
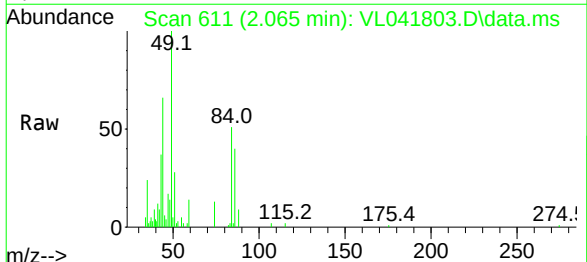
Manual Integrations
APPROVED

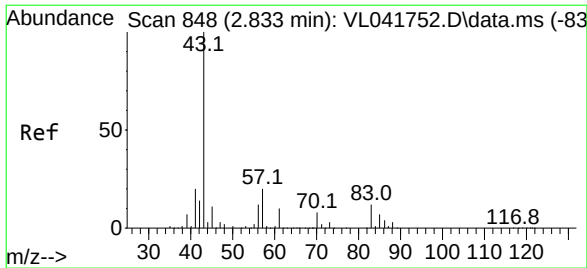
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#20
Methylene Chloride
Concen: 0.452 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

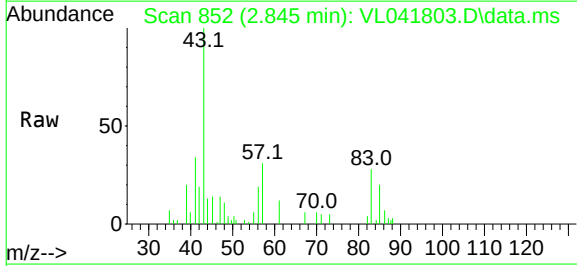
Tgt Ion: 84 Resp: 1921
Ion Ratio Lower Upper
84 100
49 197.2 132.6 198.8
51 48.5 37.6 56.4
86 78.5 51.4 77.0#





#25
Ethyl Acetate
Concen: 0.252 ppbv m
RT: 2.845 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

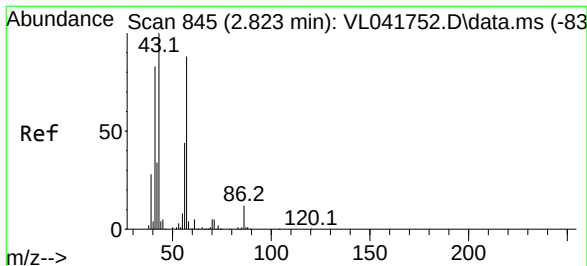
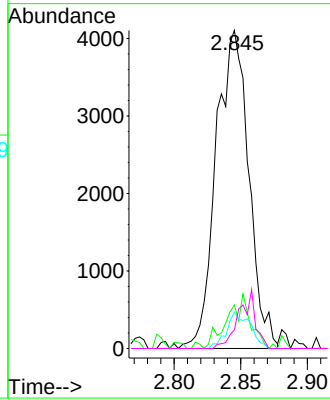
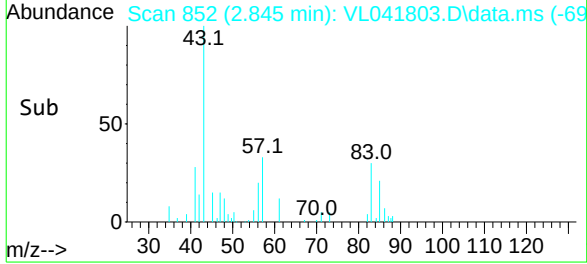
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



Tgt Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.1	12.1#
61	8.3	7.0	10.6
70	9.5	6.5	9.7

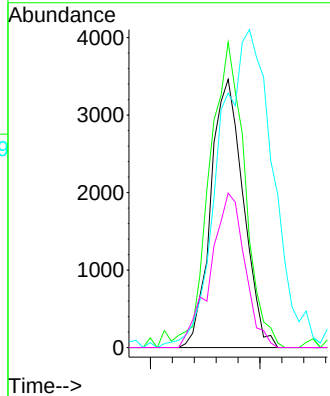
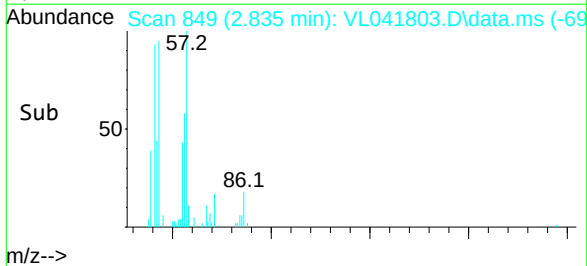
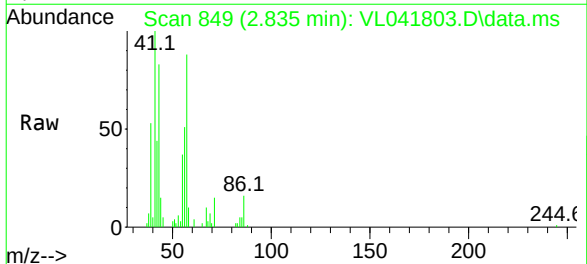
Manual Integrations
APPROVED

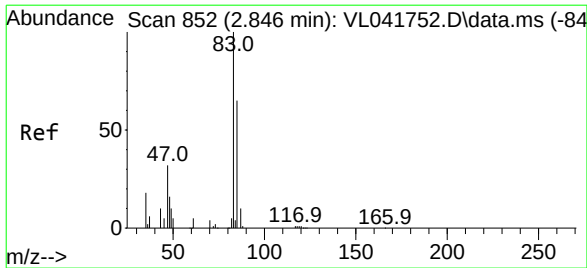
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#26
Hexane
Concen: 0.338 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	126.2	79.6	119.4#
43	200.4	211.0	316.6#
56	60.8	42.6	63.8





#29

Chloroform

Concen: 0.297 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

Tgt Ion: 83 Resp: 4772

Ion Ratio Lower Upper

83 100

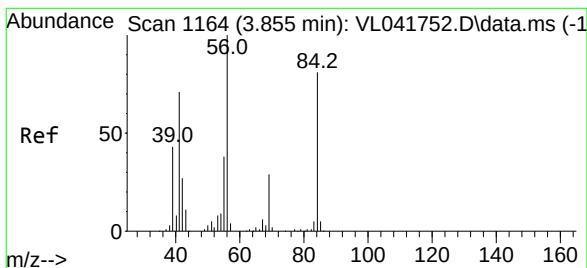
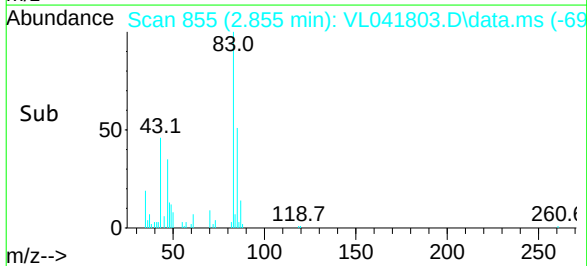
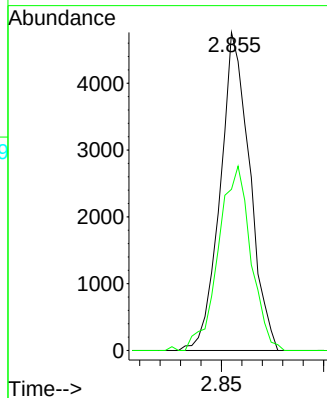
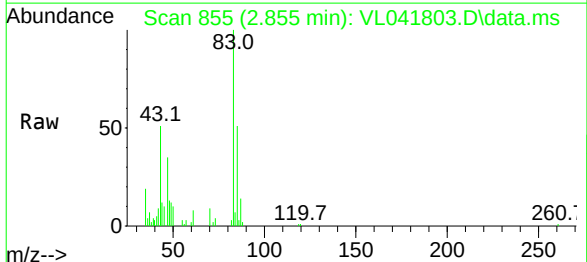
85 50.7 51.8 77.6#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024

Supervised By :Mahesh Dadoda 12/19/2024



#30

Cyclohexane

Concen: 0.108 ppbv m

RT: 3.865 min Scan# 1167

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

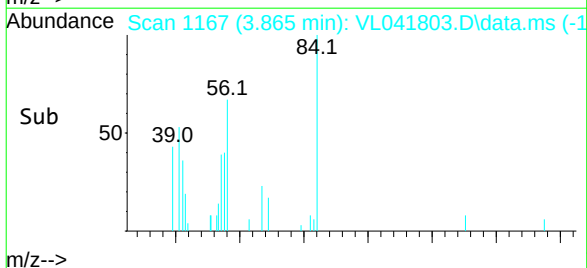
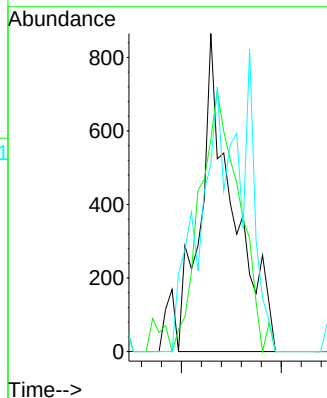
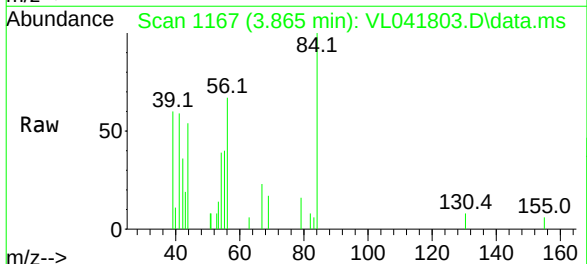
Tgt Ion: 84 Resp: 971

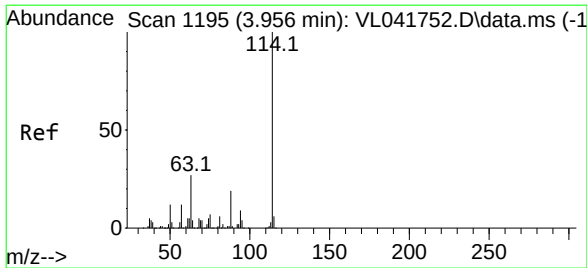
Ion Ratio Lower Upper

84 100

56 106.3 102.3 153.5

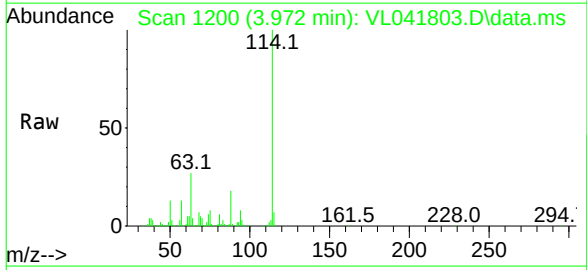
41 0.0 74.0 111.0#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 12
Delta R.T. 0.016 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

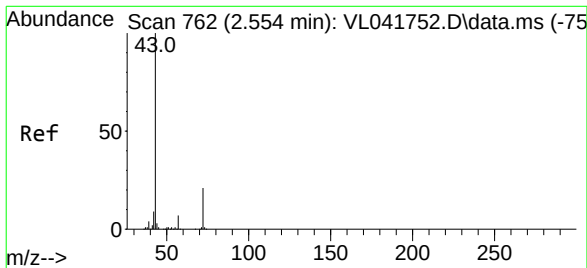
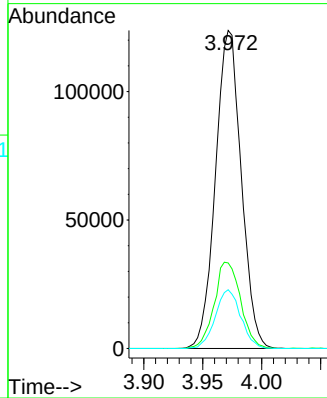
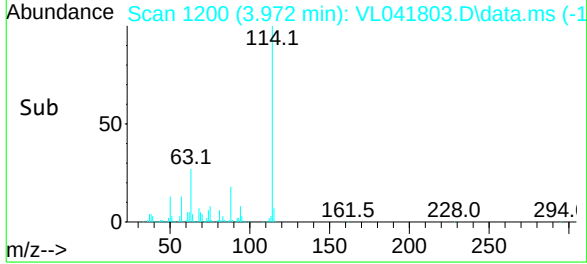
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



Tgt Ion: 114 Resp: 187828
Ion Ratio Lower Upper
114 100
63 27.8 21.8 32.8
88 18.2 14.8 22.2

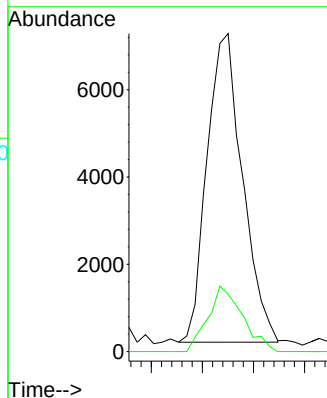
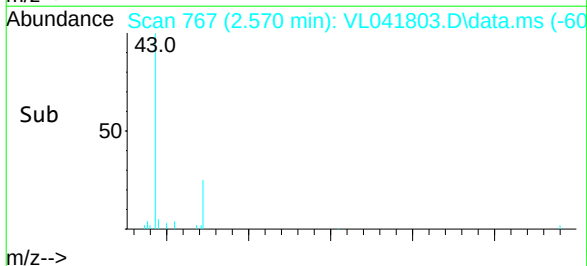
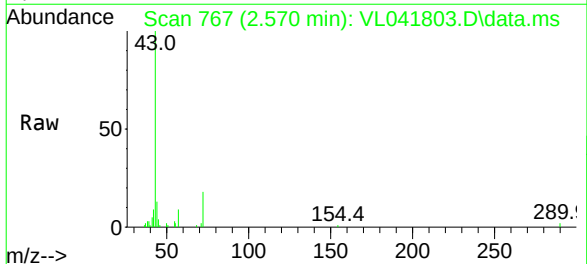
Manual Integrations
APPROVED

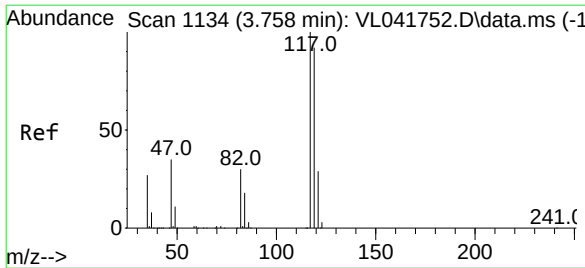
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#34
2-Butanone
Concen: 0.452 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

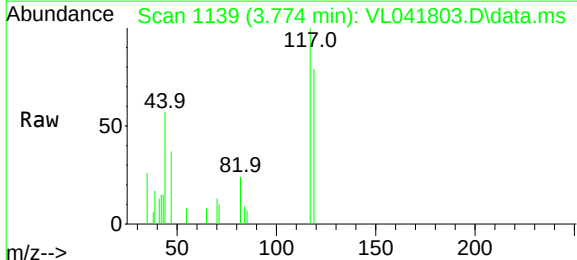
Tgt Ion: 43 Resp: 6833
Ion Ratio Lower Upper
43 100
72 20.6 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.774 min Scan# 1134
Delta R.T. 0.016 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

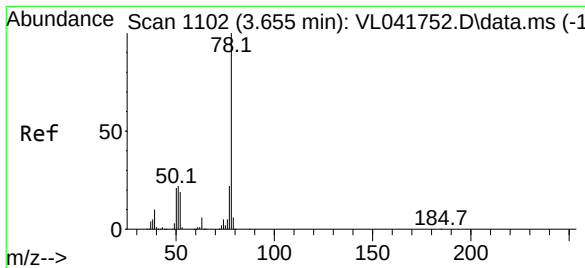
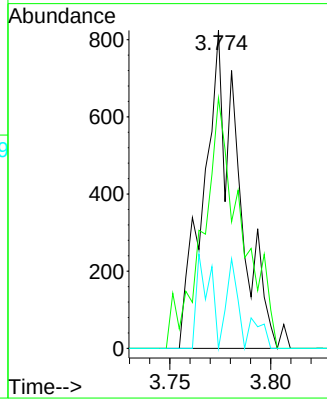
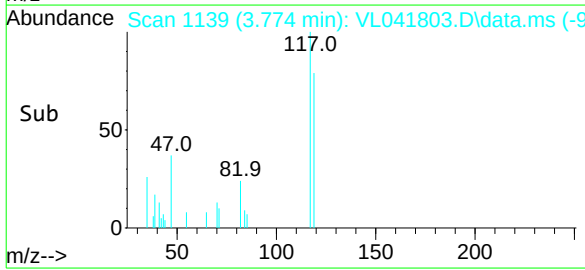
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.8	73.7	110.5
121	0.0	23.0	34.4

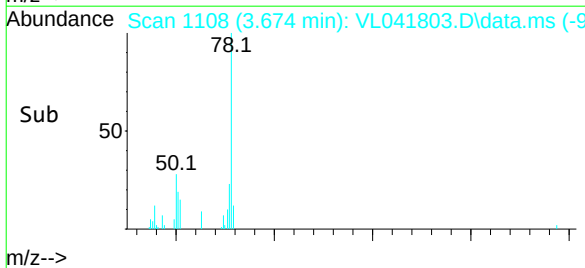
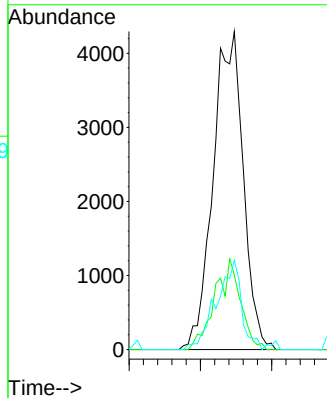
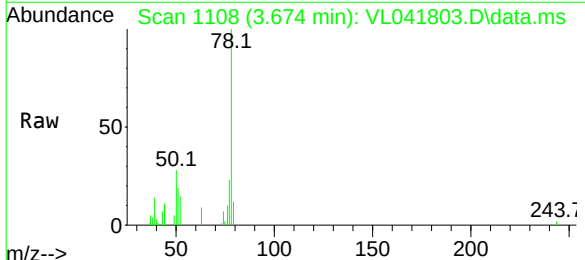
Manual Integrations
APPROVED

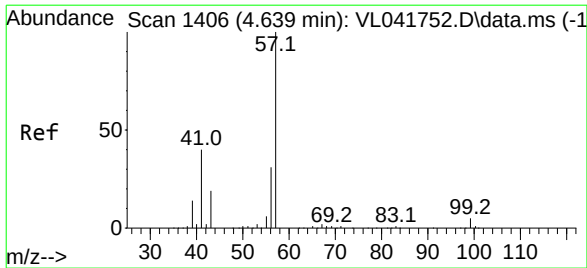
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#36
Benzene
Concen: 0.324 ppbv m
RT: 3.674 min Scan# 1108
Delta R.T. 0.019 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	17.8	26.6
50	28.1	17.2	25.8





#44

2,2,4-Trimethylpentane

Concen: 0.182 ppbv

RT: 4.661 min Scan# 1406

Delta R.T. 0.022 min

Lab File: VL041803.D

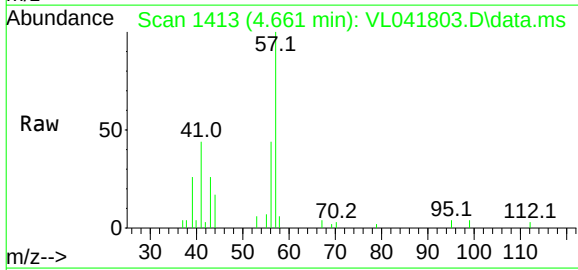
Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

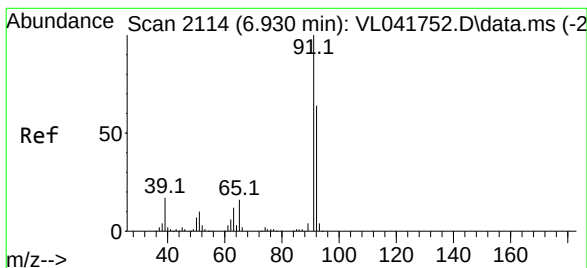
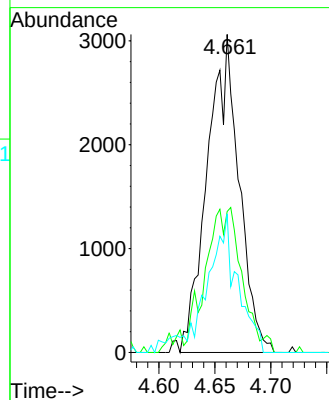
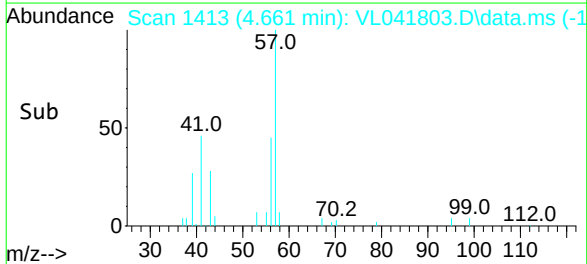


Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	30.7	46.1
56	0.0	25.4	38.0

Manual Integrations

APPROVED

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



#53

Toluene

Concen: 0.597 ppbv

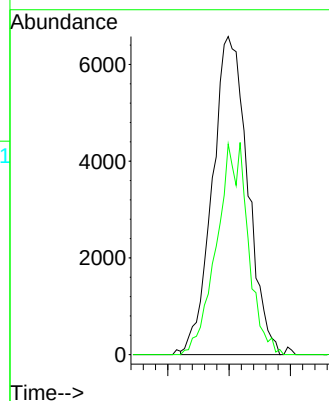
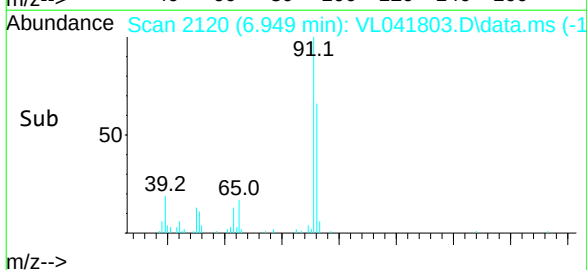
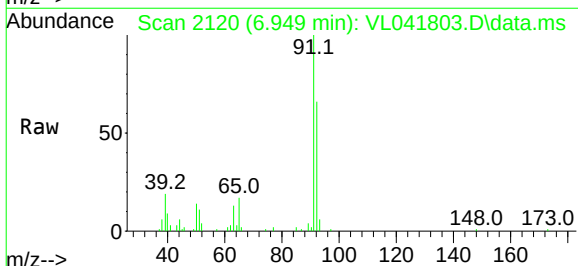
RT: 6.949 min Scan# 2120

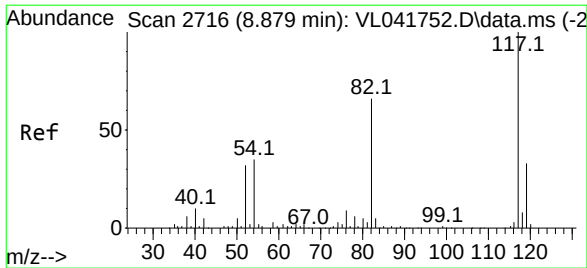
Delta R.T. 0.019 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

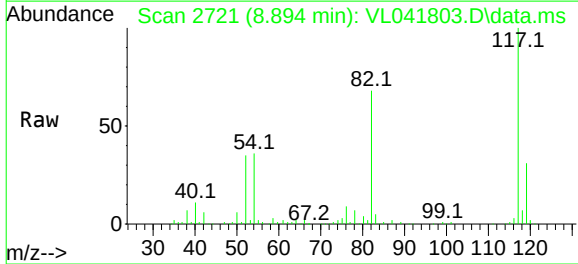
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.3	47.9	71.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2716
Delta R.T. 0.016 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

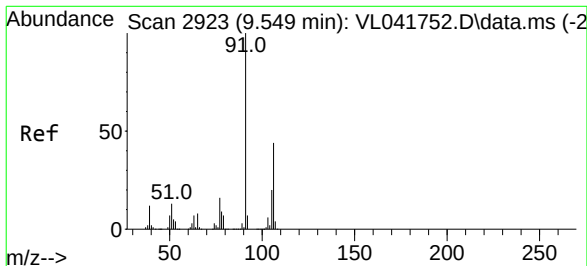
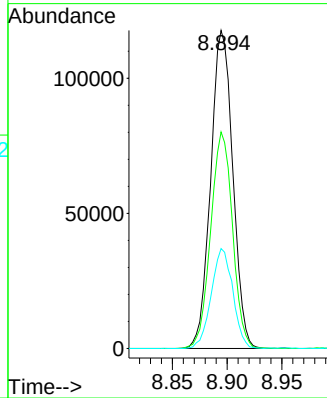
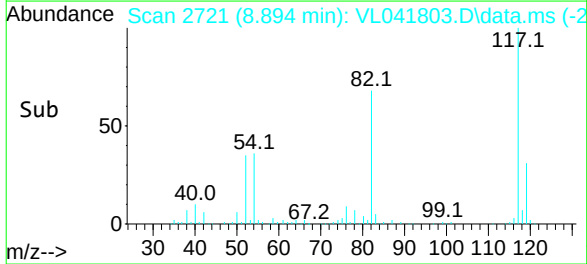
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



Tgt Ion: 117 Resp: 164998
Ion Ratio Lower Upper
117 100
82 67.3 53.8 80.8
119 30.9 26.7 40.1

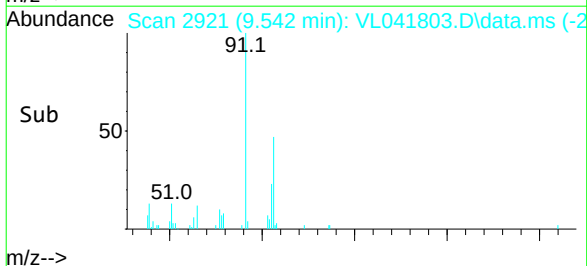
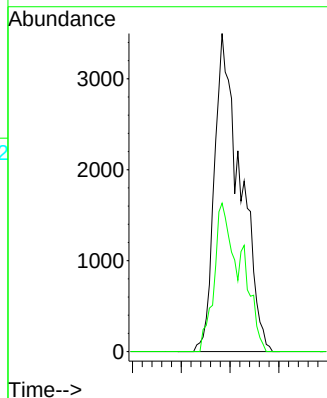
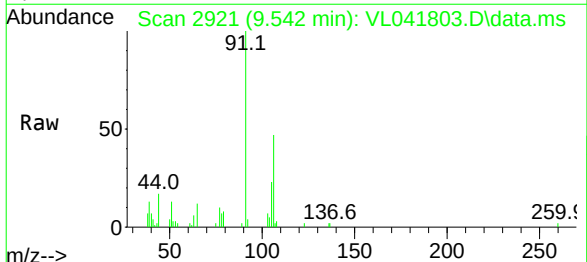
Manual Integrations
APPROVED

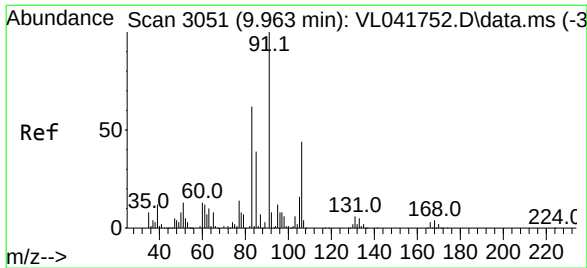
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#59
m/p-Xylene
Concen: 0.271 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

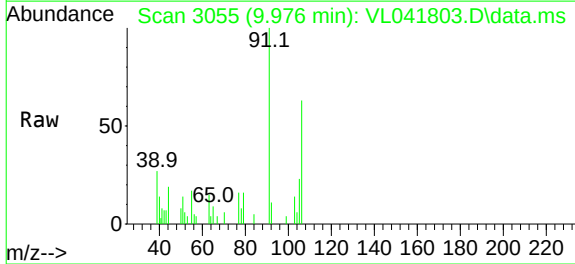
Tgt Ion: 91 Resp: 6469
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.109 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

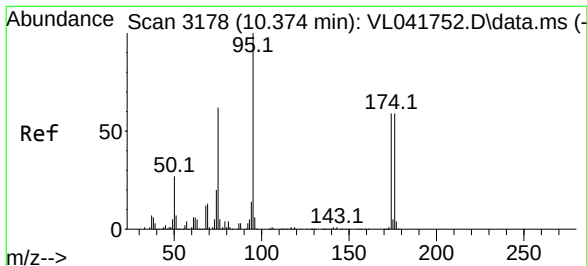
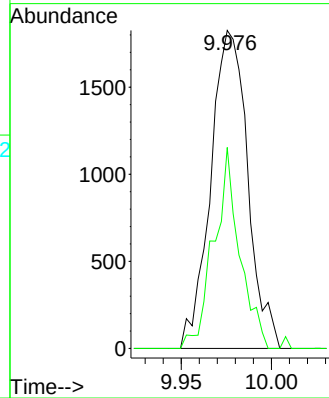
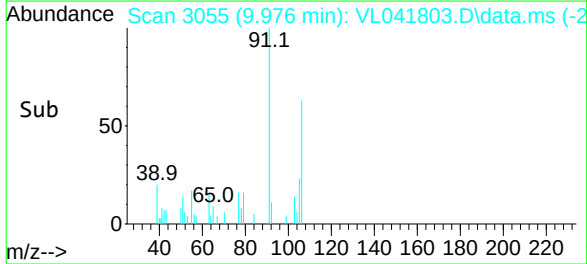
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



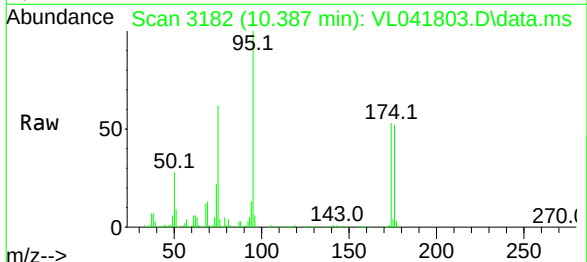
Tgt Ion: 91 Resp: 2612
Ion Ratio Lower Upper
91 100
106 44.4 21.1 63.4

Manual Integrations
APPROVED

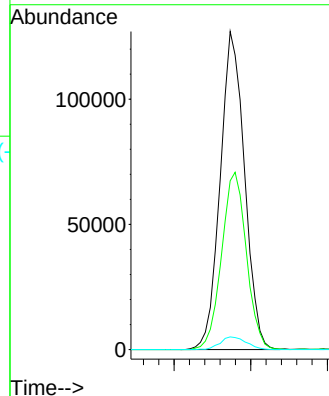
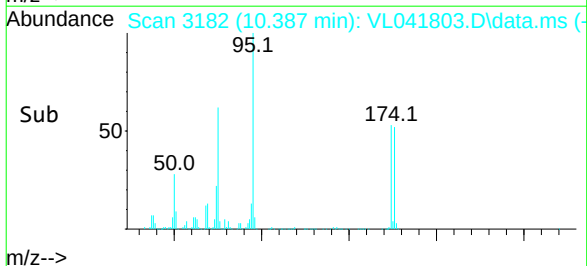
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.182 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32



Tgt Ion: 95 Resp: 139994
Ion Ratio Lower Upper
95 100
174 56.8 47.6 71.4
175 4.3 3.7 5.5



Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB8	SDG No.:	P5294
Lab Sample ID:	P5294-03	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
VL041811.D	1		12/19/24 00:44	VL121824

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.37	1.83	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.60	1.24		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	0.27	0.82	J	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	7.90	18.8		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	0.33	1.15	J	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	0.94	2.77		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	0.24	1.17	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	0.29	1.35	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.41	1.31	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	0.74	2.79		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:	C0AB8	SDG No.:	P5294
Lab Sample ID:	P5294-03	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
VL041811.D	1		12/19/24 00:44	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	0.38	1.65	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.14	0.61	J	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	0.13	0.64	J	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	0.37	1.30	J	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	77500		2.793			
540-36-3	1,4-Difluorobenzene	186000		3.968			
3114-55-4	Chlorobenzene-d5	164000		8.891			

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	12/11/24
Project:	R36719	Date Received:	12/13/24
Client Sample ID:	C0AB8	SDG No.:	P5294
Lab Sample ID:	P5294-03	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
VL041811.D	1		12/19/24 00:44	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 : VL041811.D
 Acq On : 19 Dec 2024 00:44
 Operator : SY/MD
 Sample : P5294-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB8

Manual Integrations
 APPROVED

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

Quant Time: Dec 19 08:02:26 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	2.793	49	77490	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	186355	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	163591	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	137750	10.105	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5098	0.370	ppbv	91
3) Chlorodifluoromethane	1.476	51	3679m	0.291	ppbv	
4) Chloromethane	1.534	50	3262	0.605	ppbv #	79
9) Propene	1.489	41	19667m	3.591	ppbv	
11) Trichlorofluoromethane	1.881	101	2991	0.204	ppbv	99
13) Ethanol	1.722	45	711075	1567.837	ppbv	95
15) Acetone	1.839	43	119725	7.941	ppbv #	87
17) tert-Butyl alcohol	2.046	59	4030	0.269	ppbv #	1
19) Isopropyl Alcohol	1.890	45	46673	5.159	ppbv #	38
20) Methylene Chloride	2.065	84	1430	0.333	ppbv	92
26) Hexane	2.832	57	3902	0.367	ppbv #	63
29) Chloroform	2.855	83	3971	0.245	ppbv	91
34) 2-Butanone	2.564	43	14105	0.941	ppbv	96
35) Carbon Tetrachloride	3.768	117	884m	0.067	ppbv	
36) Benzene	3.664	78	7992	0.415	ppbv	98
44) 2,2,4-Trimethylpentane	4.655	57	9590m	0.291	ppbv	
53) Toluene	6.949	91	16221	0.742	ppbv	99
58) Ethyl Benzene	9.361	91	3309	0.112	ppbv	90
59) m/p-Xylene	9.542	91	8941m	0.378	ppbv	
60) o-Xylene	9.972	91	3319m	0.140	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	3276	0.131	ppbv #	50

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

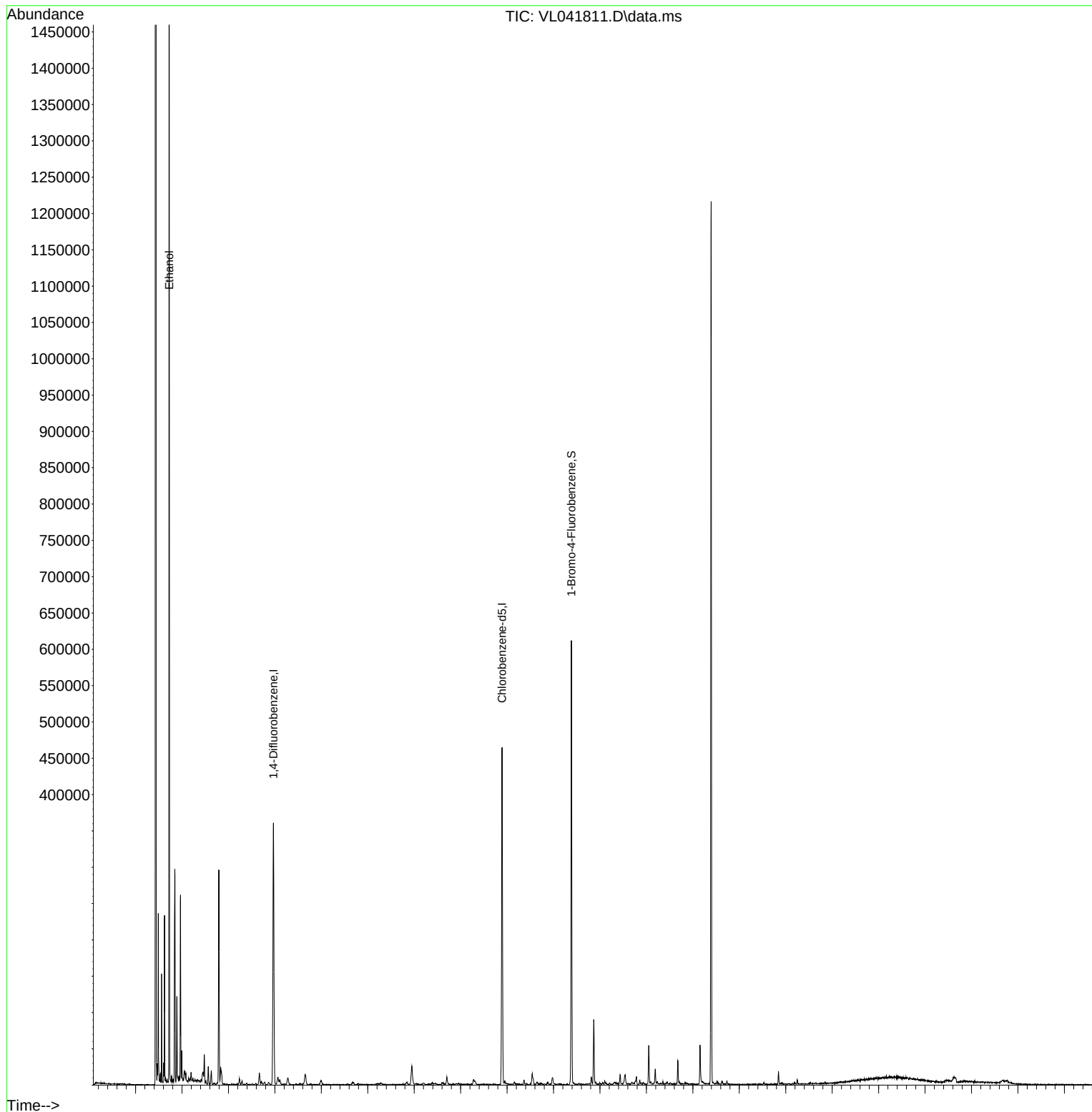
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041811.D
Acq On : 19 Dec 2024 00:44
Operator : SY/MD
Sample : P5294-03
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

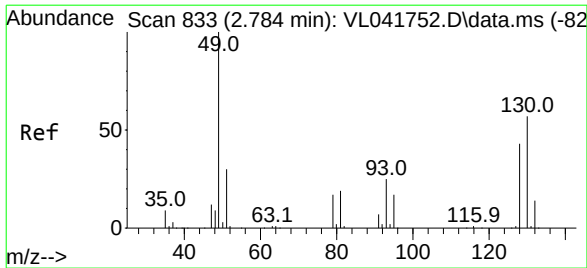
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

Quant Time: Dec 19 08:02:26 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

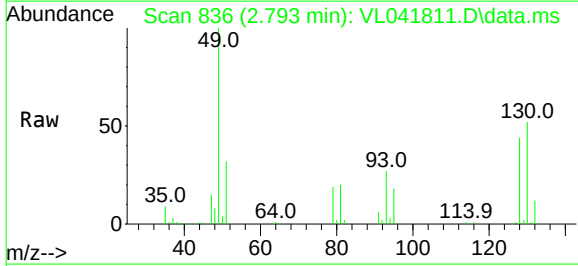
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/23/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

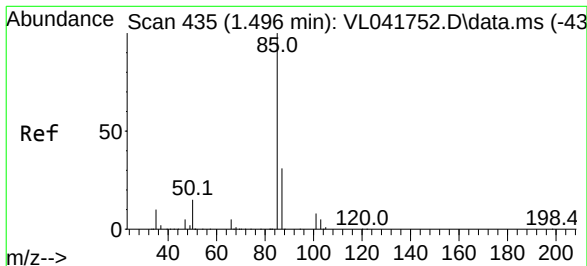
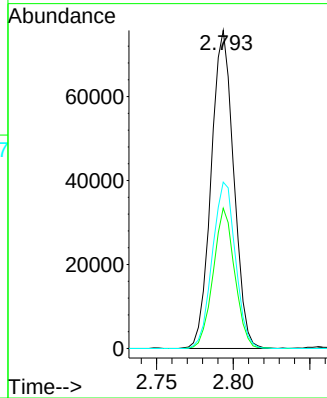
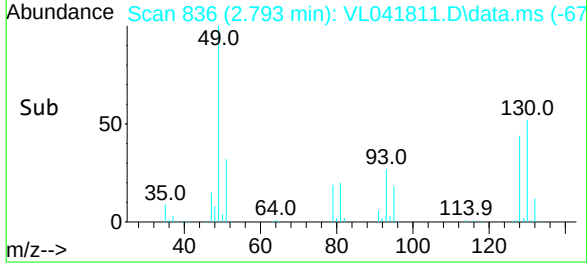
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



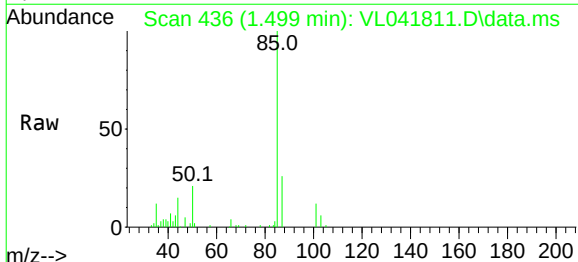
Tgt Ion: 49 Resp: 77496
Ion Ratio Lower Upper
49 100
128 42.1 21.6 64.6
130 53.5 28.3 85.0

Manual Integrations
APPROVED

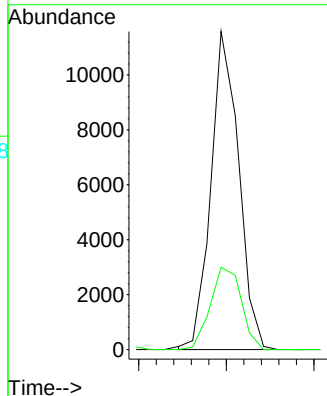
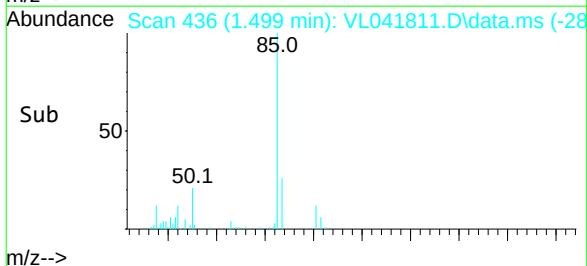
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

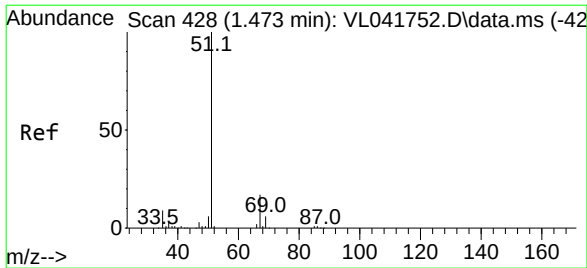


#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44



Tgt Ion: 85 Resp: 5098
Ion Ratio Lower Upper
85 100
87 25.9 24.5 36.7





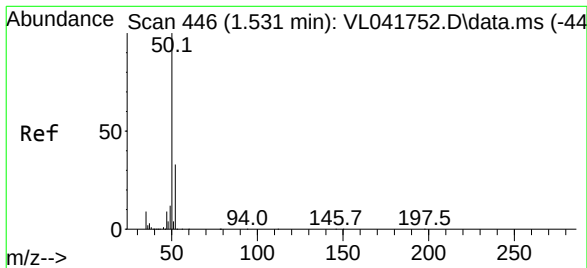
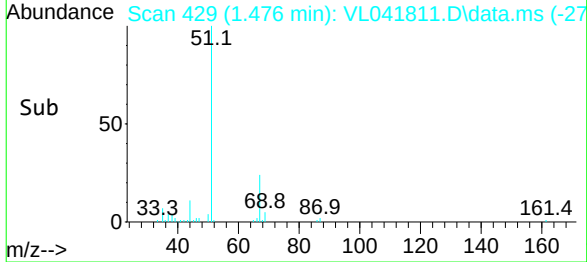
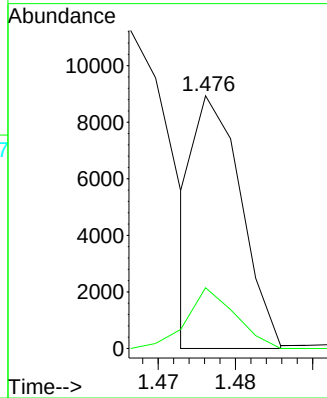
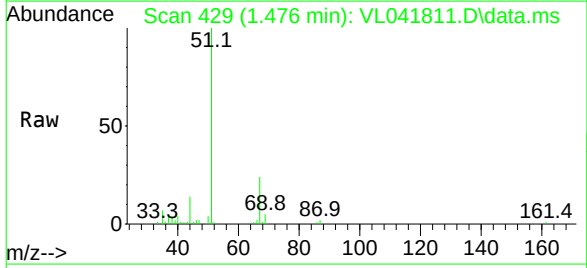
#3
Chlorodifluoromethane
Concen: 0.291 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Instrument :
MSVOA_L
ClientSampleId :
C0AB8

Tgt Ion: 51 Resp: 3679
Ion Ratio Lower Upper
51 100
67 25.5 15.0 22.4#

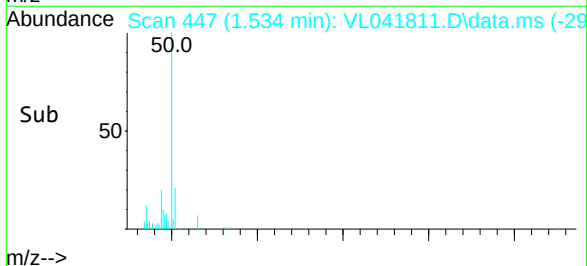
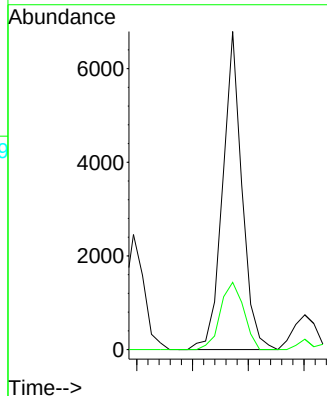
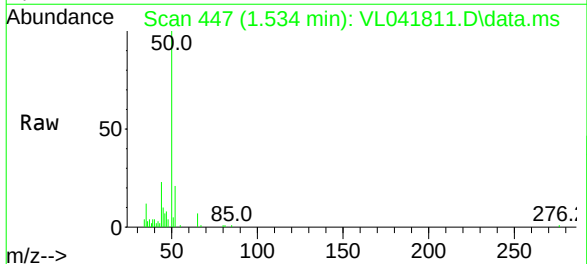
Manual Integrations
APPROVED

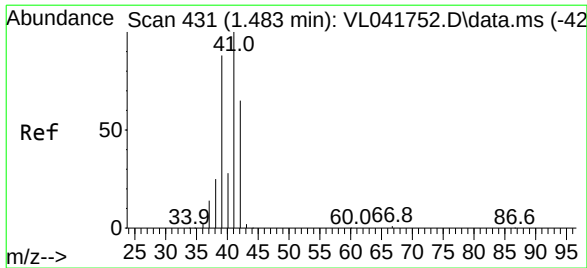
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#4
Chloromethane
Concen: 0.605 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

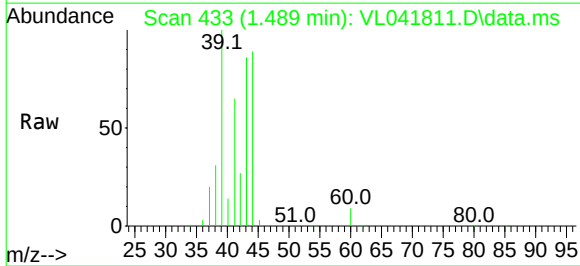
Tgt Ion: 50 Resp: 3262
Ion Ratio Lower Upper
50 100
52 21.1 26.2 39.2#





#9
Propene
Concen: 3.591 ppbv m
RT: 1.489 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

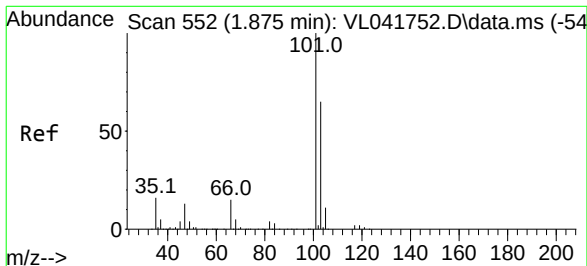
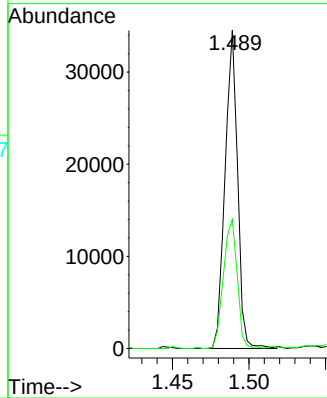
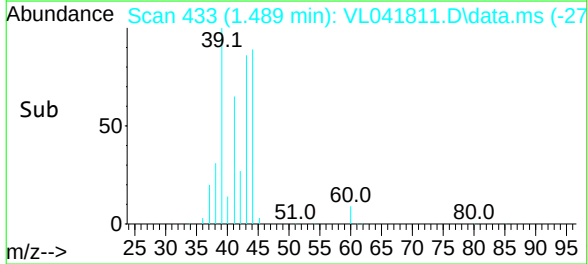
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



Tgt Ion: 41 Resp: 19667
Ion Ratio Lower Upper
41 100
42 53.0 52.4 78.6

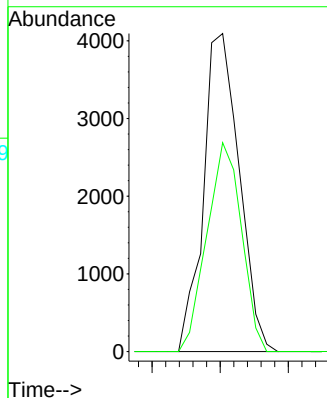
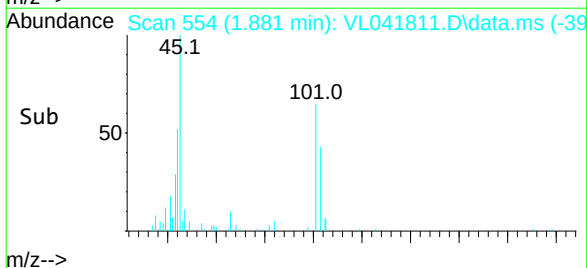
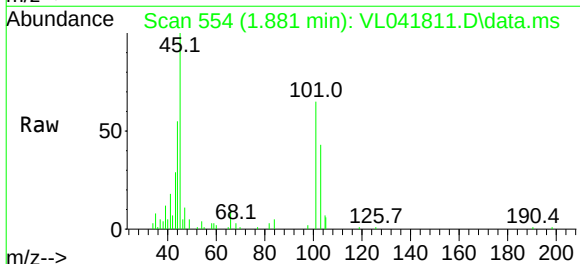
Manual Integrations
APPROVED

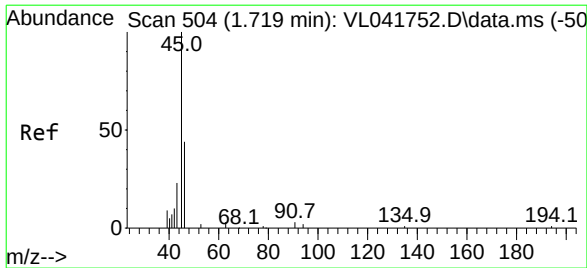
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

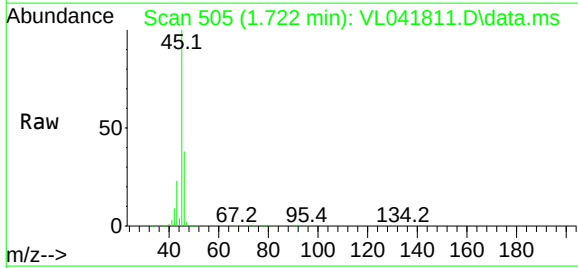
Tgt Ion:101 Resp: 2991
Ion Ratio Lower Upper
101 100
103 65.7 51.8 77.8





#13
Ethanol
Concen: 1567.837 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

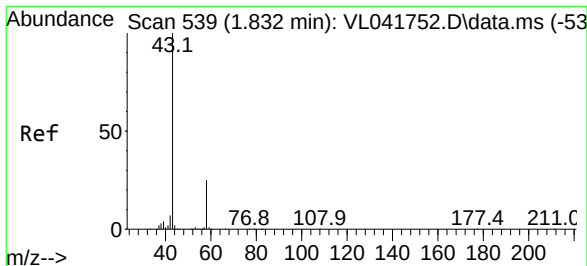
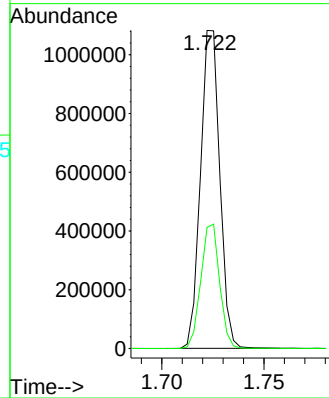
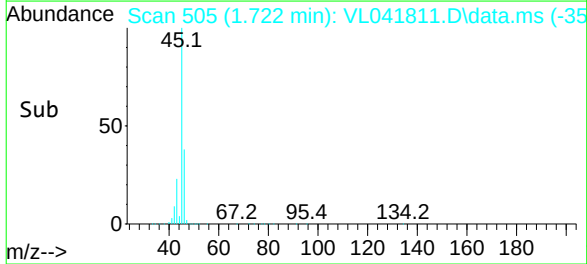
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



Tgt Ion: 45 Resp: 711075
Ion Ratio Lower Upper
45 100
46 38.1 16.4 65.8

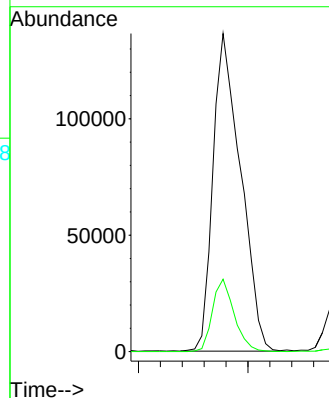
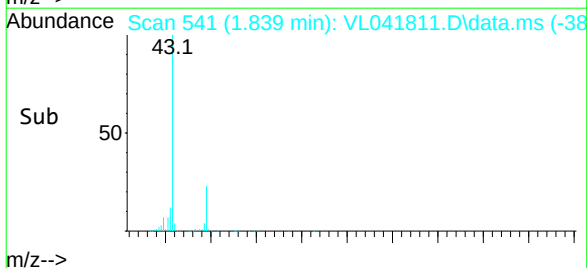
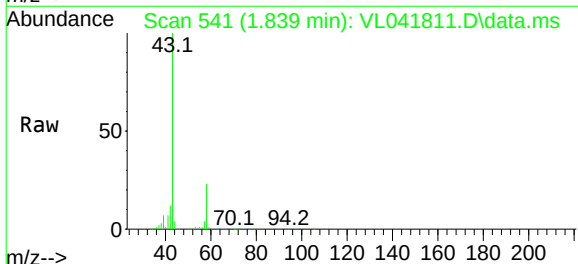
Manual Integrations
APPROVED

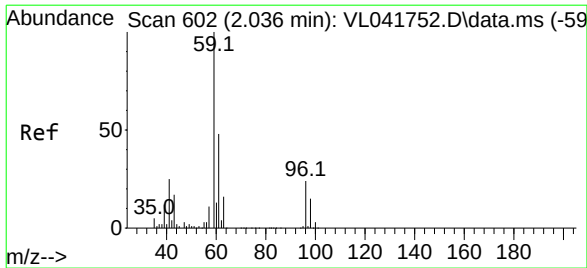
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#15
Acetone
Concen: 7.941 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Tgt Ion: 43 Resp: 119725
Ion Ratio Lower Upper
43 100
58 18.0 19.7 29.5#





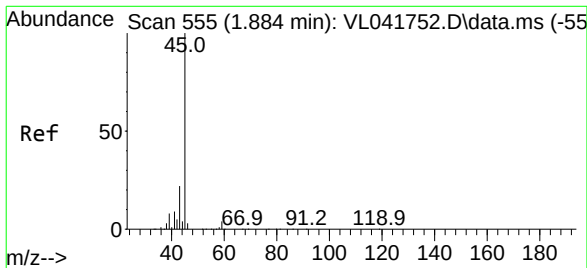
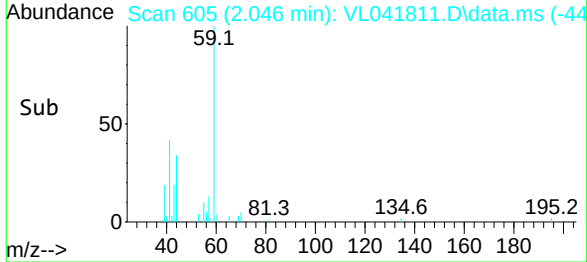
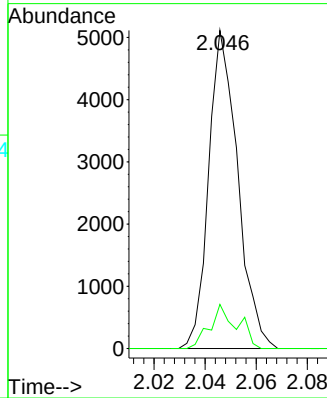
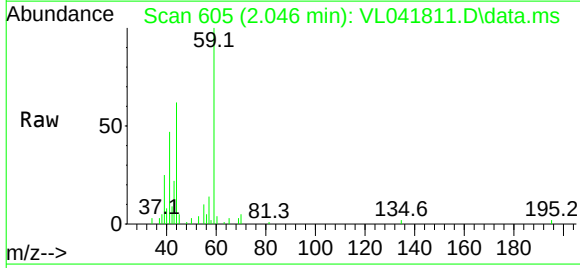
#17
tert-Butyl alcohol
Concen: 0.269 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Instrument :
MSVOA_L
ClientSampleId :
C0AB8

Tgt Ion: 59 Resp: 4030
Ion Ratio Lower Upper
59 100
57 207.8 8.6 13.0#

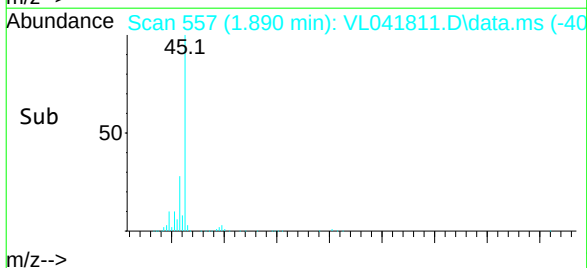
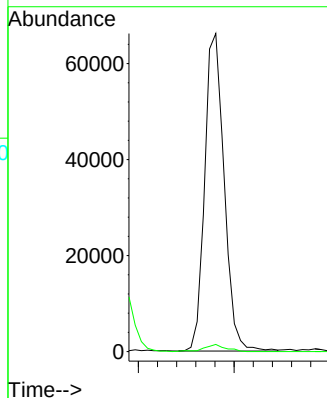
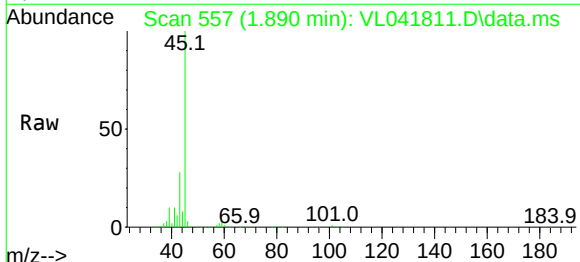
Manual Integrations
APPROVED

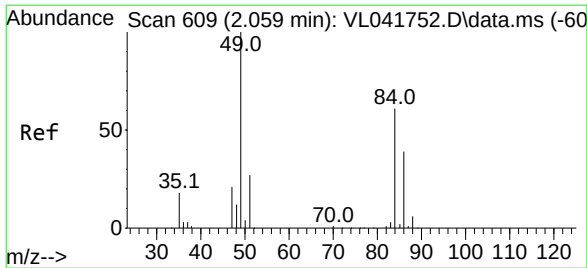
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#19
Isopropyl Alcohol
Concen: 5.159 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

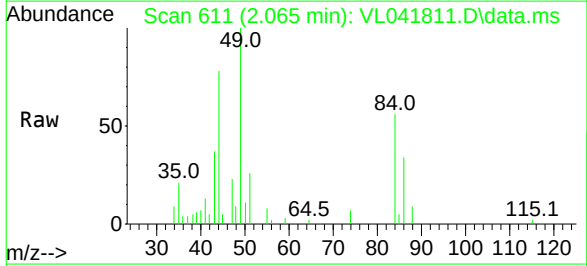
Tgt Ion: 45 Resp: 46673
Ion Ratio Lower Upper
45 100
58 2.5 33.3 49.9#





#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

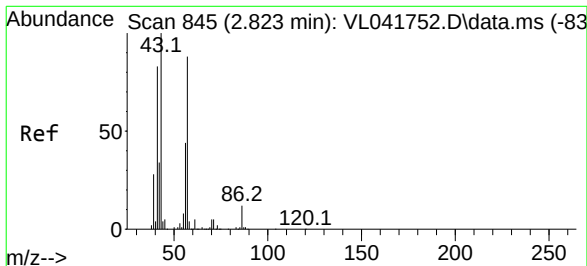
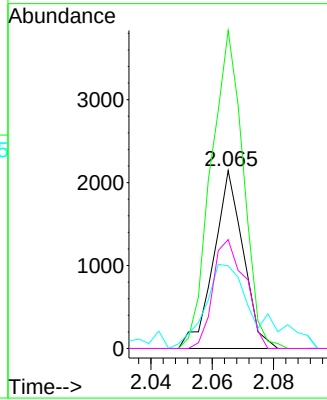
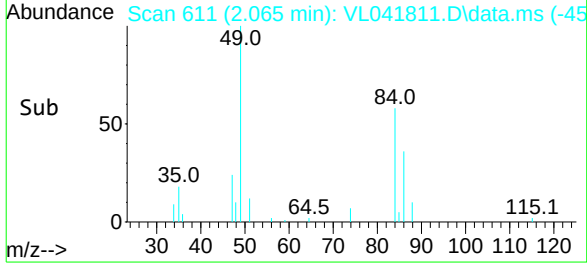
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



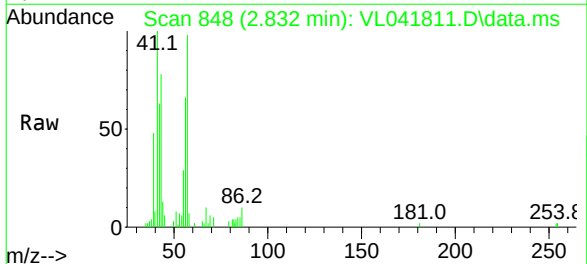
Tgt Ion:	84	Resp:	1430
Ion	Ratio	Lower	Upper
84	100		
49	178.8	132.6	198.8
51	43.8	37.6	56.4
86	61.2	51.4	77.0

Manual Integrations
APPROVED

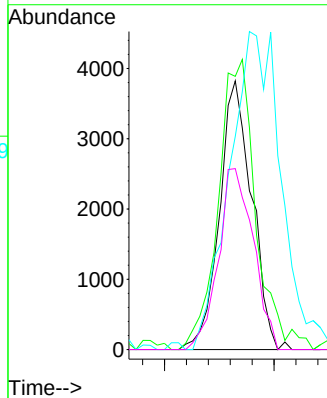
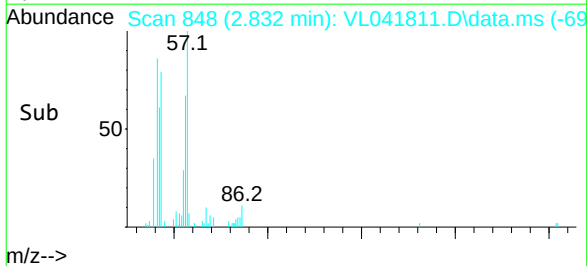
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

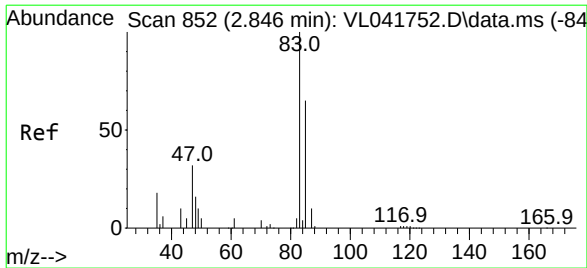


#26
Hexane
Concen: 0.367 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44



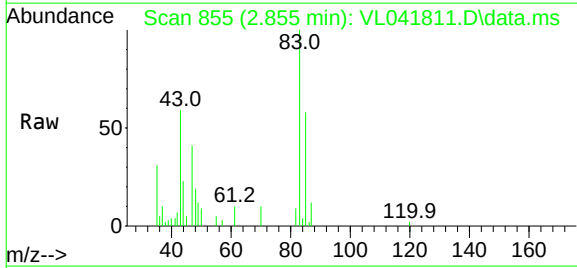
Tgt Ion:	57	Resp:	3902
Ion	Ratio	Lower	Upper
57	100		
41	131.0	79.6	119.4#
43	191.5	211.0	316.6#
56	73.1	42.6	63.8#





#29
Chloroform
Concen: 0.245 ppbv
RT: 2.855 min Scan# 85
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

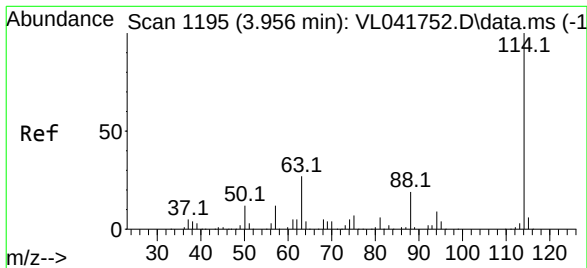
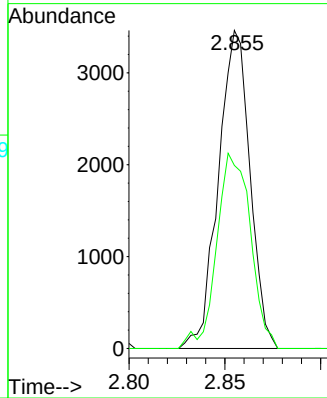
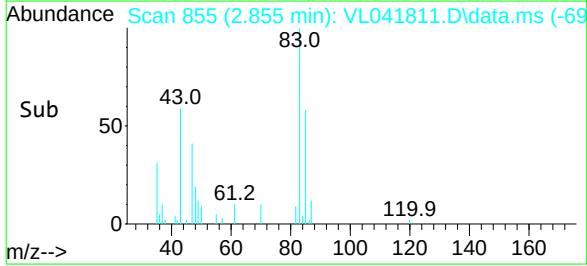
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



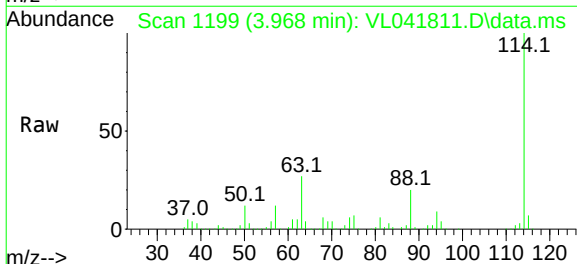
Tgt Ion: 83 Resp: 3971
Ion Ratio Lower Upper
83 100
85 57.6 51.8 77.6

Manual Integrations
APPROVED

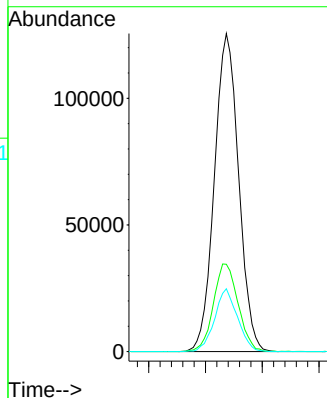
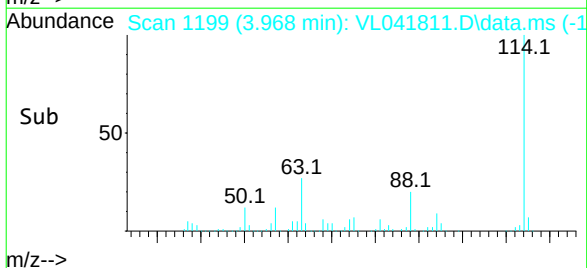
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

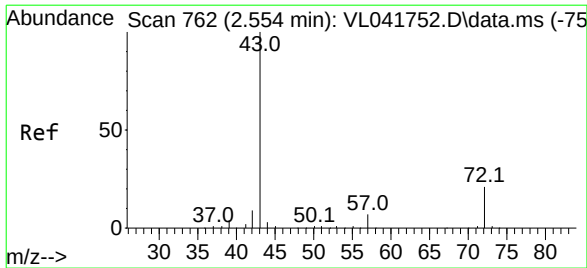


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44



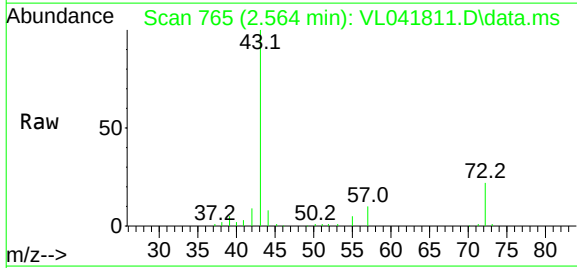
Tgt Ion:114 Resp: 186355
Ion Ratio Lower Upper
114 100
63 28.1 21.8 32.8
88 18.6 14.8 22.2





#34
2-Butanone
Concen: 0.941 ppbv
RT: 2.564 min Scan# 76
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

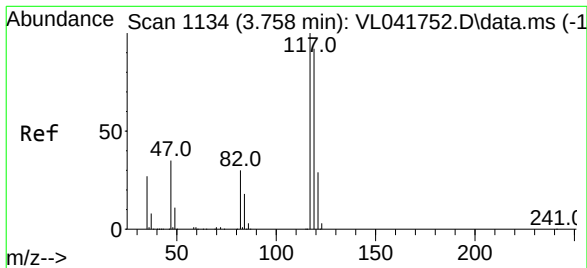
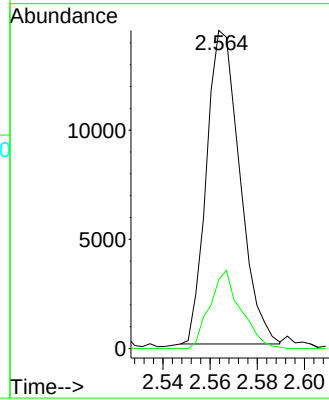
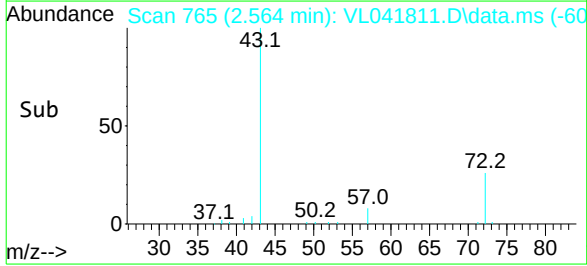
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



Tgt Ion: 43 Resp: 14105
Ion Ratio Lower Upper
43 100
72 23.0 16.8 25.2

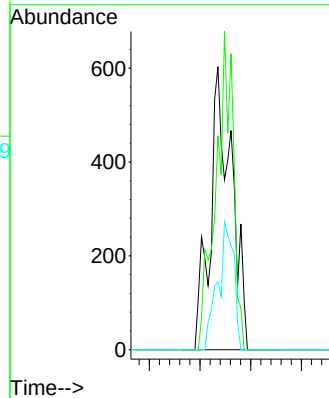
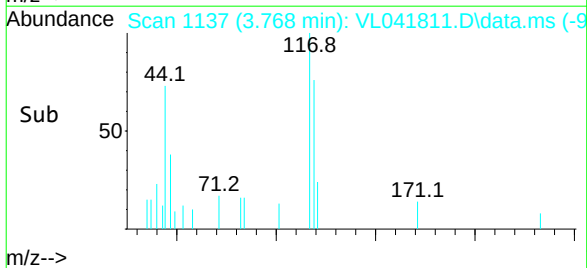
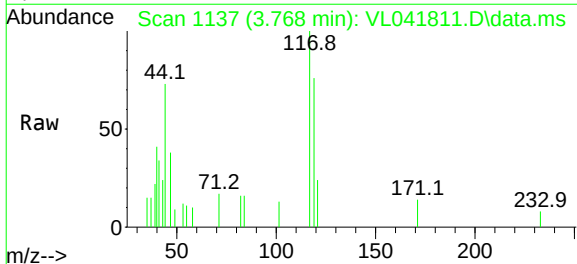
Manual Integrations
APPROVED

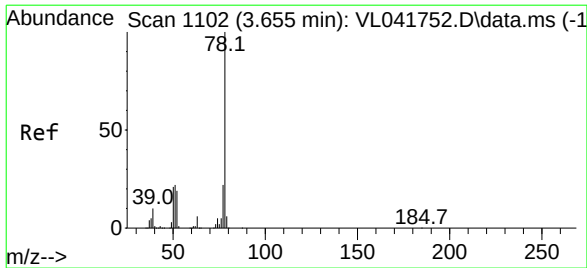
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

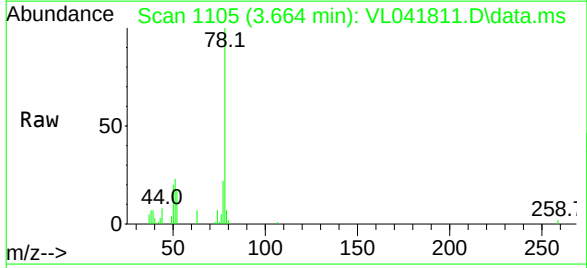
Tgt Ion:117 Resp: 884
Ion Ratio Lower Upper
117 100
119 75.6 73.7 110.5
121 24.0 23.0 34.4





#36
Benzene
Concen: 0.415 ppbv
RT: 3.664 min Scan# 1111
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

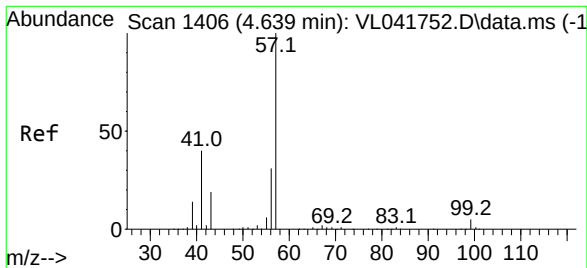
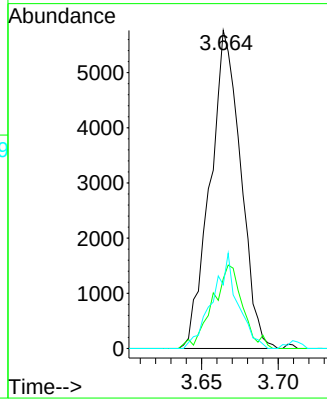
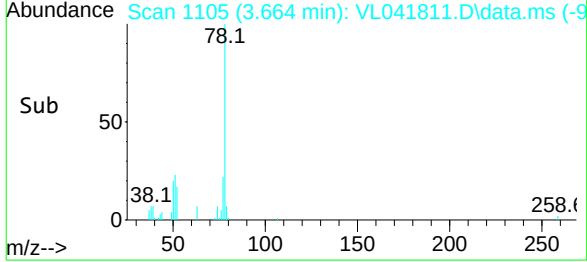
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



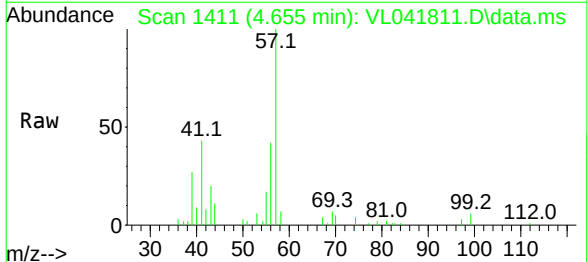
Tgt Ion: 78 Resp: 7992
Ion Ratio Lower Upper
78 100
77 21.9 17.8 26.6
50 20.0 17.2 25.8

Manual Integrations
APPROVED

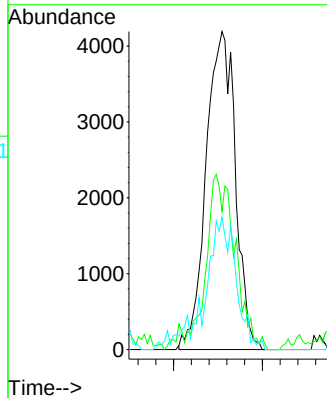
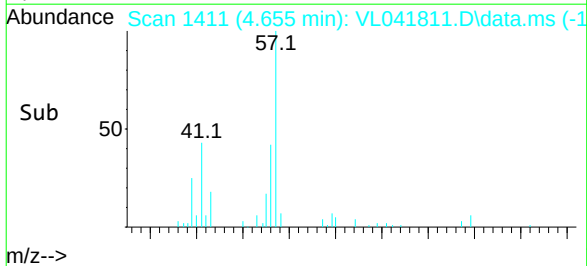
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

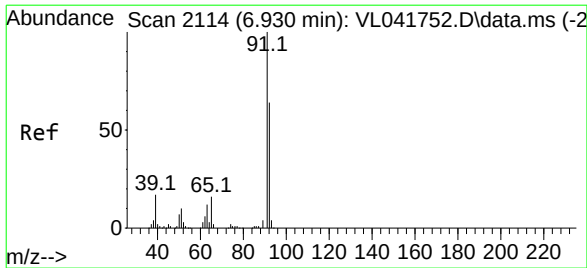


#44
2,2,4-Trimethylpentane
Concen: 0.291 ppbv m
RT: 4.655 min Scan# 1411
Delta R.T. 0.016 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44



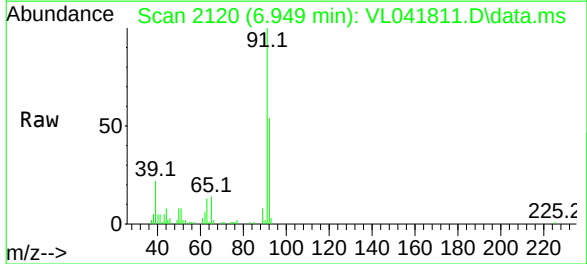
Tgt Ion: 57 Resp: 9590
Ion Ratio Lower Upper
57 100
41 56.3 30.7 46.1#
56 44.5 25.4 38.0#





#53
Toluene
Concen: 0.742 ppbv
RT: 6.949 min Scan# 2114
Delta R.T. 0.019 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

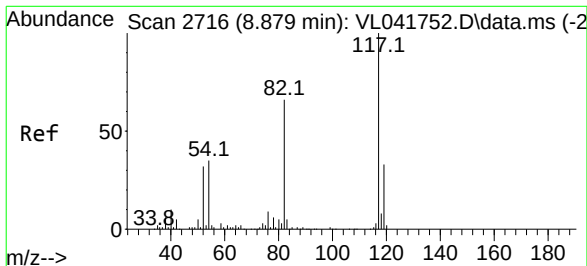
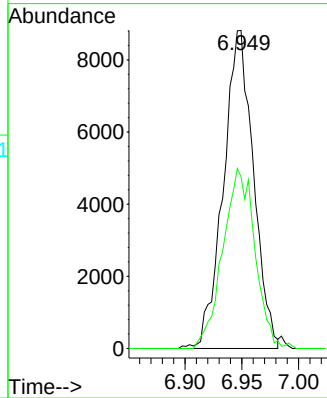
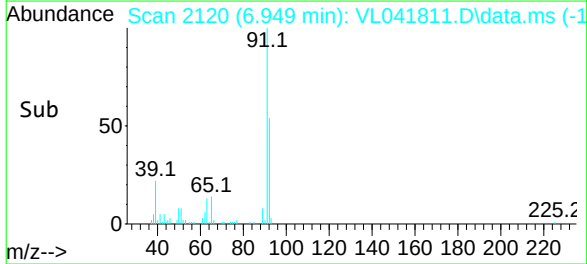
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



Tgt Ion: 91 Resp: 16221
Ion Ratio Lower Upper
91 100
92 60.5 47.9 71.9

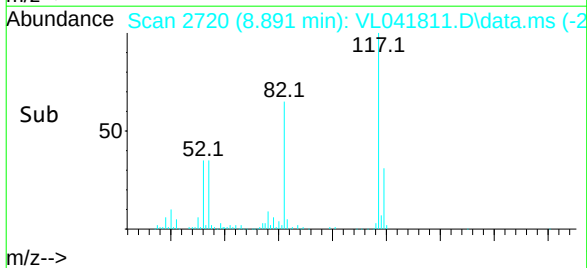
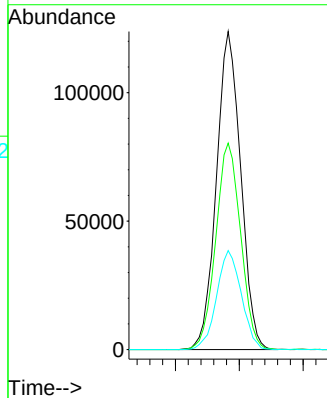
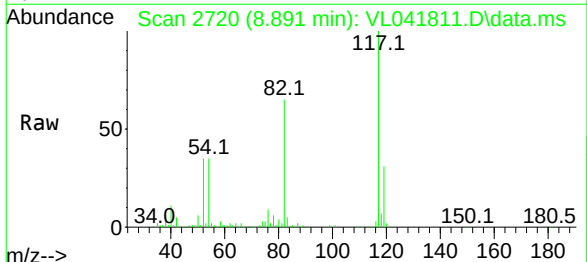
Manual Integrations
APPROVED

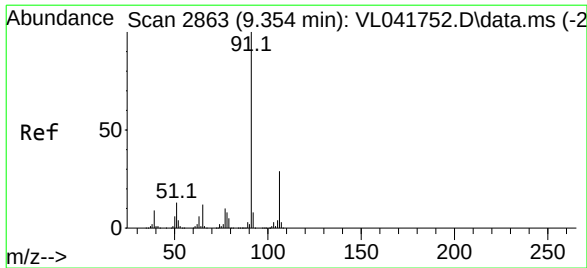
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

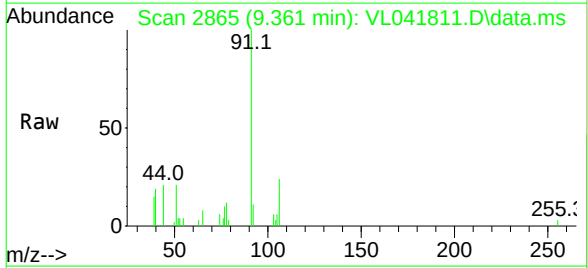
Tgt Ion:117 Resp: 163591
Ion Ratio Lower Upper
117 100
82 66.6 53.8 80.8
119 31.7 26.7 40.1





#58
Ethyl Benzene
Concen: 0.112 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

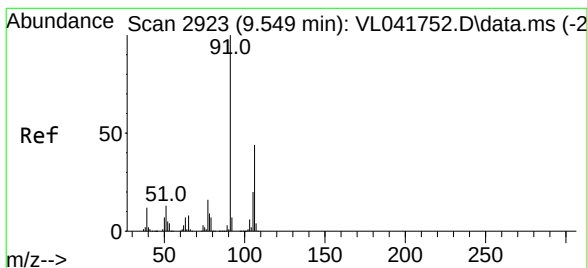
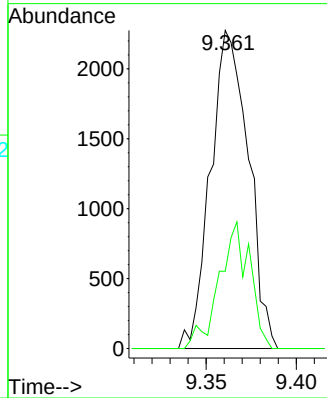
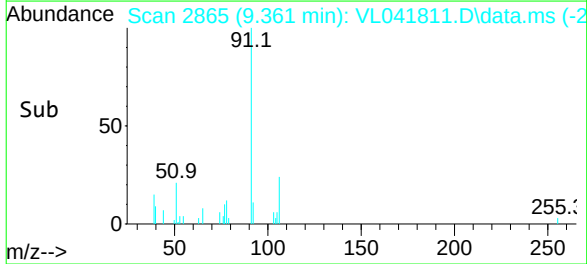
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



Tgt Ion: 91 Resp: 3309
Ion Ratio Lower Upper
91 100
106 24.3 23.5 35.3

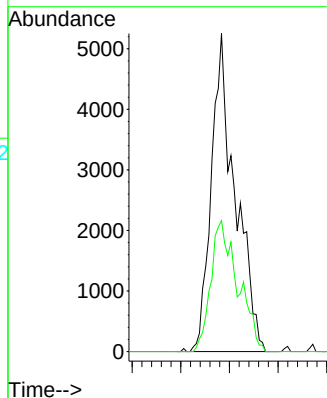
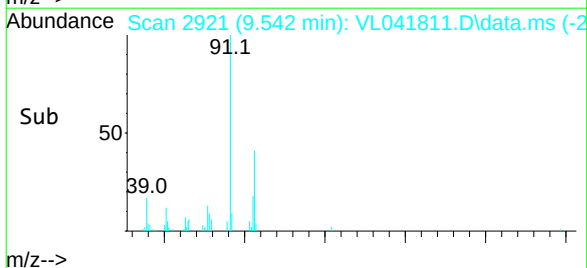
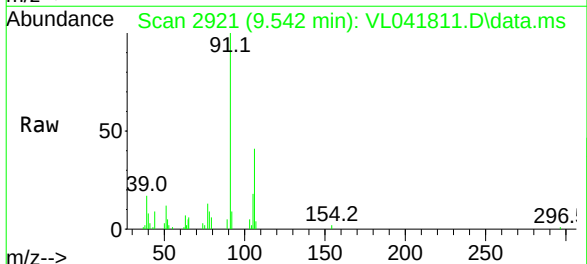
Manual Integrations
APPROVED

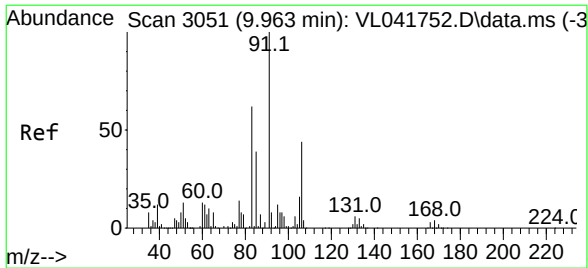
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#59
m/p-Xylene
Concen: 0.378 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

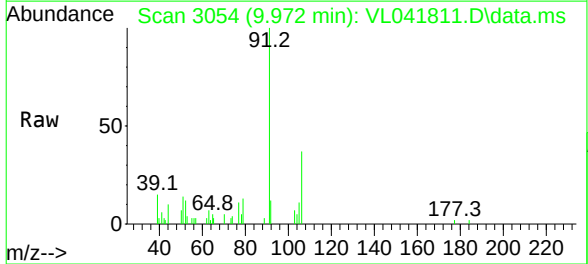
Tgt Ion: 91 Resp: 8941
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.140 ppbv m
RT: 9.972 min Scan# 3054
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

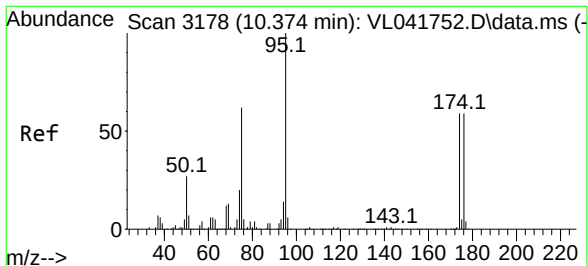
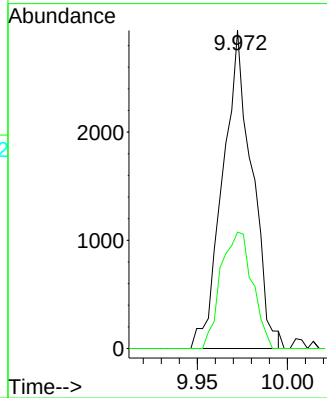
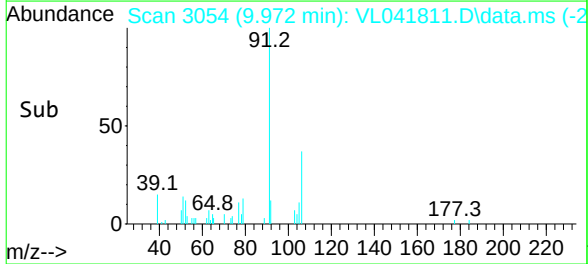
Instrument :
MSVOA_L
ClientSampleId :
C0AB8



Tgt Ion: 91 Resp: 3319
Ion Ratio Lower Upper
91 100
106 39.4 21.1 63.4

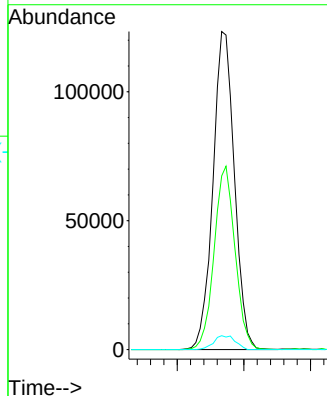
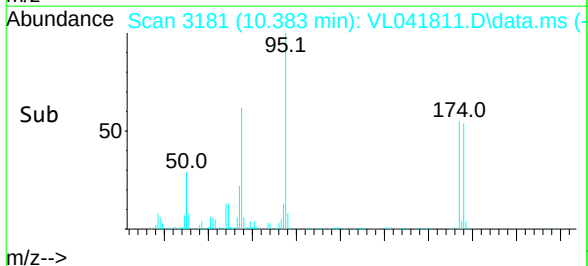
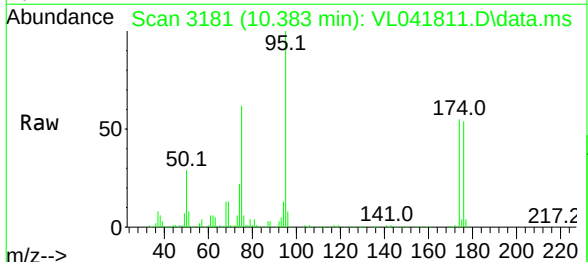
Manual Integrations
APPROVED

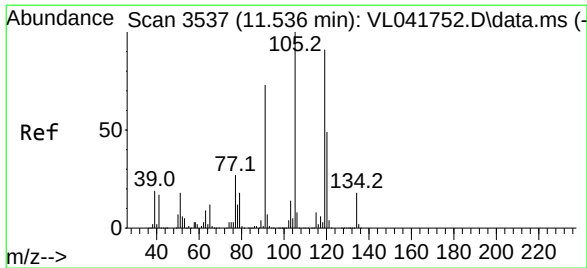
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.105 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

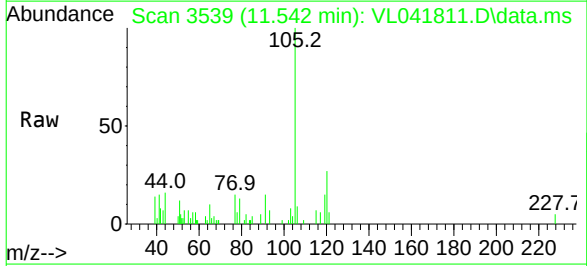
Tgt Ion: 95 Resp: 137750
Ion Ratio Lower Upper
95 100
174 56.6 47.6 71.4
175 4.4 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.131 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.006 min
 Lab File: VL041811.D
 Acq: 19 Dec 2024 00:44

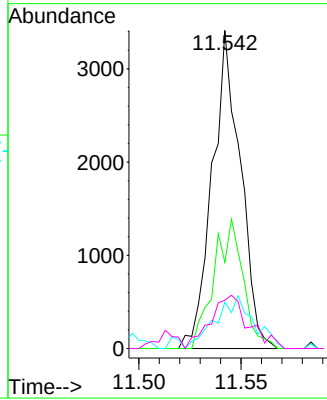
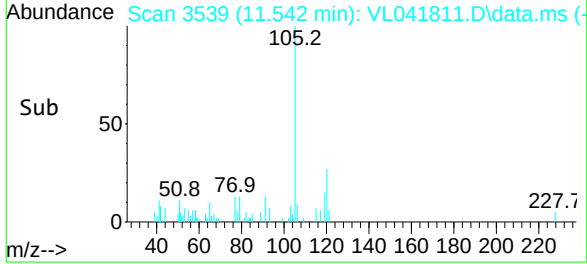
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB8



Tgt Ion:	105	Resp:	3276
Ion Ratio	Lower	Upper	
105	100		
120	27.1	39.0	58.4#
91	13.0	58.1	87.1#
77	13.2	21.8	32.8#

Manual Integrations
 APPROVED

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





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>TETR16</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5294</u>
Instrument ID:	<u>MSVOA_L</u>	SAS No.:	<u>P5294</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>P5294</u>
GC Column:	<u>RTX-1</u>	Calibration Date(s):	<u>12/16/2024</u>
ID:	<u>0.32 (mm)</u>	Calibration Time(s):	<u>13:30</u>
			<u>16:41</u>

LAB FILE ID:	RRF010 = VL041752.D		RRF002 = VL041753.D		RRF001 = VL041754.D			
	RRF0.5 = VL041755.D		RRF0.1 = VL041756.D		RRF.03 = VL041757.D			
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Dichlorodifluoromethane	1.682	1.840	1.927	1.886			1.779	8.6
Chloromethane	0.630	0.736	0.729	0.737			0.696	7.5
Vinyl Chloride	0.625	0.689	0.695	0.682	0.673	0.909	0.701	13.6
Bromomethane	0.295	0.343	0.363	0.343			0.331	8.3
Chloroethane	0.254	0.297	0.267	0.282			0.272	6.3
Tetrahydrofuran	0.427	0.455	0.488	0.455			0.451	5.5
Trichlorofluoromethane	1.791	1.943	1.915	1.981			1.890	4.3
1,1,2-Trichlorotrifluoroethane	1.341	1.466	1.504	1.491			1.438	4.9
Dichlorotetrafluoroethane	1.461	1.616	1.659	1.712			1.593	6.5
tert-Butyl alcohol	1.833	1.975	2.024	1.999			1.930	5
Heptane	1.705	1.875	1.821	1.950			1.816	5.6
1,1-Dichloroethene	0.565	0.622	0.628	0.608			0.603	4.2
Acetone	1.461	2.047	2.284	2.474			1.946	24
Carbon Disulfide	1.346	1.202	1.237	1.024			1.238	11.3
Methyl tert-Butyl Ether	1.098	1.115	1.295	1.033			1.114	9.7
Methylene Chloride	0.477	0.562	0.587	0.653			0.555	12.9
trans-1,2-Dichloroethene	0.640	0.697	0.698	0.749			0.690	6
1,1-Dichloroethane	1.311	1.414	1.459	1.458			1.396	4.9
Cyclohexane	1.096	1.215	1.187	1.217			1.169	4.6
2-Butanone	0.736	0.860	0.820	0.869			0.805	8.1
Carbon Tetrachloride	0.756	0.758	0.716	0.634	0.657	0.671	0.710	7.9
cis-1,2-Dichloroethene	1.331	1.460	1.519	1.430			1.419	5.4
Chloroform	1.969	2.138	2.182	2.155			2.093	4.4
1,1,1-Trichloroethane	2.028	2.101	2.186	2.158	2.113	2.218	2.128	3
2,2,4-Trimethylpentane	1.674	1.842	1.809	1.826			1.767	4.6
Benzene	0.975	1.059	1.080	1.079			1.034	5.2
1,2-Dichloroethane	0.608	0.650	0.642	0.690			0.644	4.7
Trichloroethene	0.388	0.428	0.437	0.408	0.469	0.551	0.439	12.9
1,2-Dichloropropane	0.353	0.388	0.395	0.382			0.374	5.4
Bromodichloromethane	0.777	0.730	0.735	0.664			0.740	6.9

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: P5294 SAS No.: P5294 SDG No.: P5294

Instrument ID: MSVOA_L Calibration Date(s): 12/16/2024 12/16/2024

Heated Purge: (Y/N) N Calibration Time(s): 13:30 16:41

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

LAB FILE ID:		RRF010 = VL041752.D		RRF002 = VL041753.D		RRF001 = VL041754.D		
		RRF0.5 = VL041755.D		RRF0.1 = VL041756.D		RRF.03 = VL041757.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
4-Methyl-2-Pentanone	1.060	1.149	1.130	1.062			1.095	3.7
Toluene	1.123	1.215	1.207	1.183			1.173	3.5
t-1,3-Dichloropropene	0.423	0.407	0.393	0.382			0.408	5.3
cis-1,3-Dichloropropene	0.533	0.522	0.493	0.500			0.518	4
1,1,2-Trichloroethane	0.368	0.406	0.402	0.408			0.391	5.1
Dibromochloromethane	0.593	0.540	0.493	0.433			0.534	13.6
1,2-Dibromoethane	0.512	0.542	0.545	0.540	0.565		0.538	3.3
Tetrachloroethene	0.343	0.372	0.395	0.346	0.333	0.555	0.385	20.2
Chlorobenzene	0.951	1.088	1.078	1.053			1.023	6.8
Ethyl Benzene	1.774	1.931	1.834	1.694			1.800	4.9
m/p-Xylene	1.417	1.522	1.467	1.423			1.448	3.3
o-Xylene	1.421	1.560	1.492	1.382			1.452	5
Styrene	0.674	0.636	0.598	0.544			0.628	9.3
Bromoform	0.498	0.443	0.395	0.328			0.437	17.8
1,1,2,2-Tetrachloroethane	0.841	0.907	0.909	0.953	0.936	0.979	0.909	6
2-Chlorotoluene	1.616	1.760	1.699	1.640			1.665	3.8
1,3,5-Trimethylbenzene	1.465	1.483	1.378	1.324			1.422	4.8
1,2,4-Trimethylbenzene	1.566	1.619	1.519	1.396			1.529	5.4
1,3-Dichlorobenzene	0.929	0.994	1.015	1.023			0.975	5.2
1,4-Dichlorobenzene	0.931	0.992	0.972	0.996			0.963	3.5
1,2-Dichlorobenzene	0.865	0.983	0.978	1.009			0.938	7.7
1,2,4-Trichlorobenzene	0.621	0.592	0.553	0.536			0.582	6.3
Hexachloro-1,3-Butadiene	0.586	0.773	0.756	0.786			0.695	15.1
1,3-Butadiene	0.685	0.777	0.779	0.891			0.766	10.7
Naphthalene	1.258	1.154	1.046	0.928	0.754		1.065	18.6
4-Ethyltoluene	1.731	1.794	1.659	1.681			1.713	3.1
1-Bromo-4-Fluorobenzene	0.848	0.844	0.819	0.834	0.829	0.827	0.833	1.2
Hexane	1.303	1.423	1.403	1.423			1.374	4.3
Allyl Chloride	1.012	1.092	1.126	1.008			1.055	4.9
1,4-Dioxane	166.814	186.511	181.136	212.045			182.757	10.1

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR16
 Lab Code: CHEM Case No.: P5294 SAS No.: P5294 SDG No.: P5294
 Instrument ID: MSVOA_L Calibration Date(s): 12/16/2024 12/16/2024
 Heated Purge: (Y/N) N Calibration Time(s): 13:30 16:41
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:								
RRF010 = VL041752.D			RRF002 = VL041753.D			RRF001 = VL041754.D		
RRF0.5 = VL041755.D			RRF0.1 = VL041756.D			RRF.03 = VL041757.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Methyl Methacrylate	0.395	0.406	0.394	0.372			0.394	3.4

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

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

Method File : 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

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

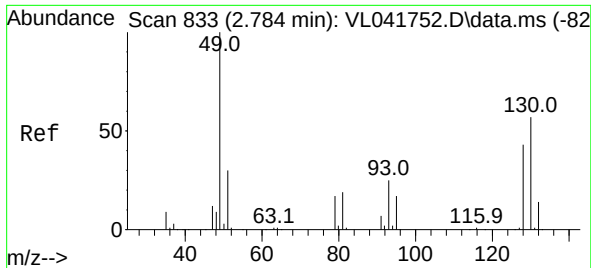
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

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



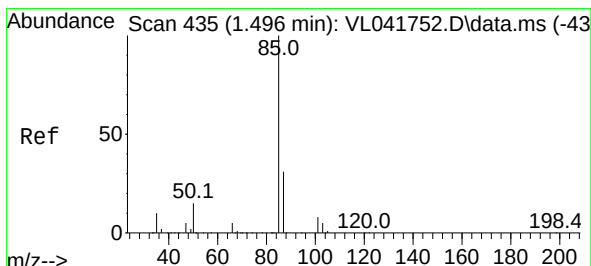
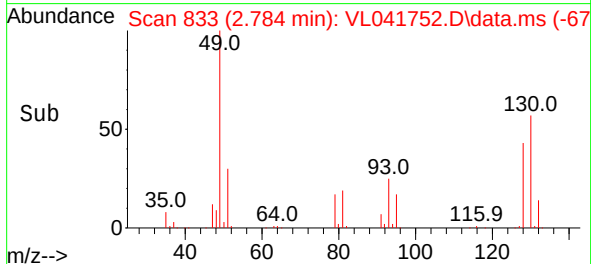
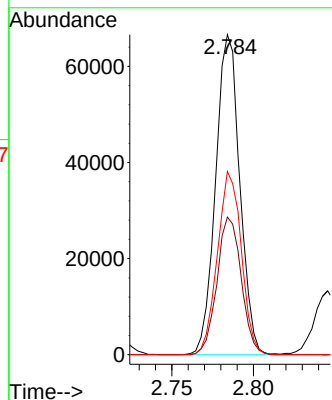
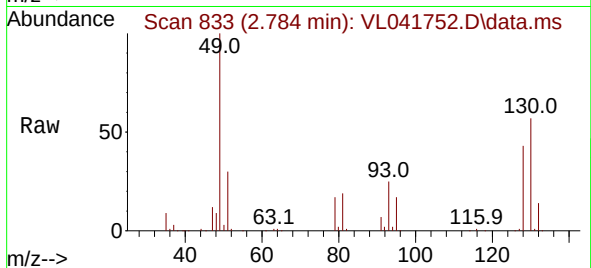
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_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

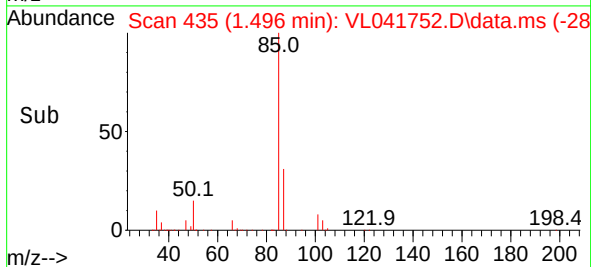
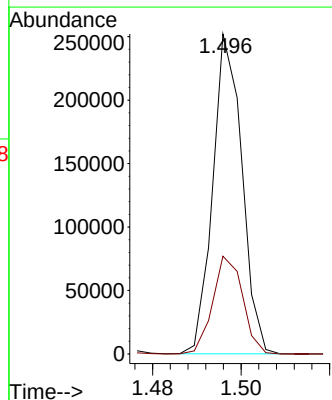
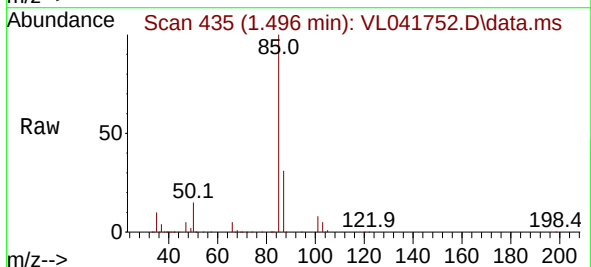
Manual Integrations
APPROVED

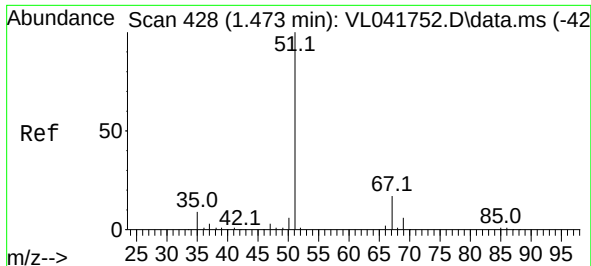
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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_1

ClientSampleId :

VSTDICCC010

Tgt Ion: 51 Resp: 107429

Ion Ratio Lower Upper

51 100

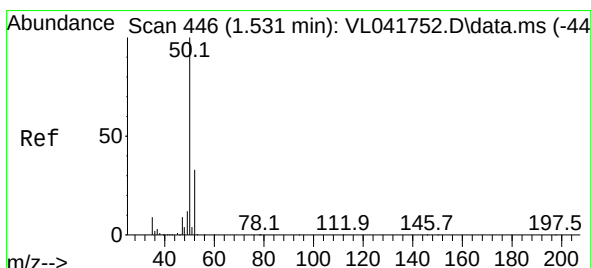
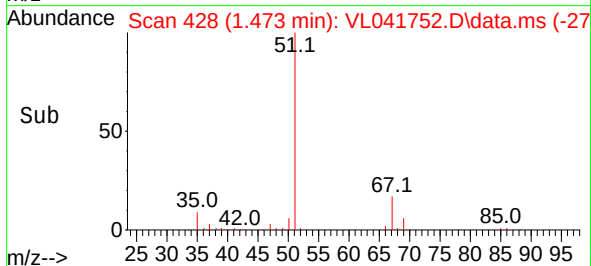
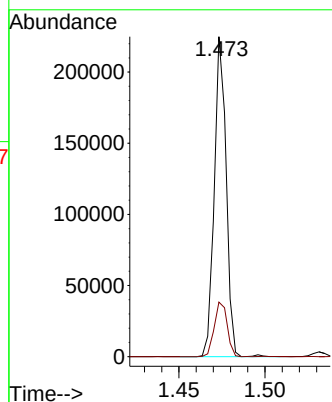
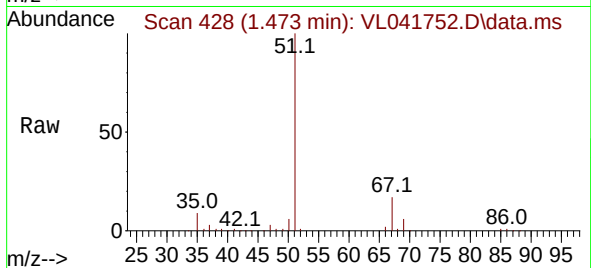
67 18.7 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#4

Chloromethane

Concen: 9.049 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.000 min

Lab File: VL041752.D

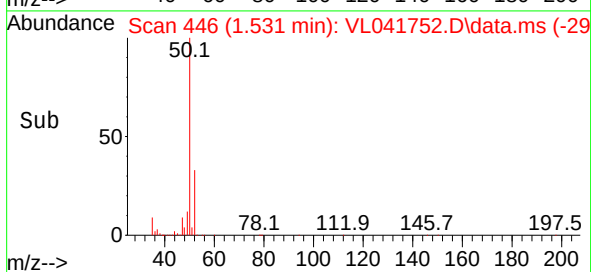
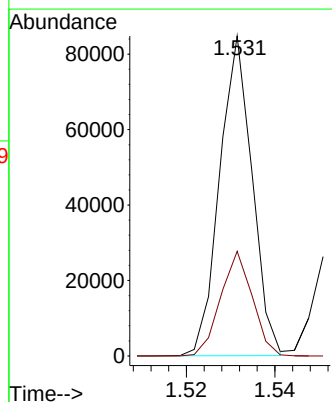
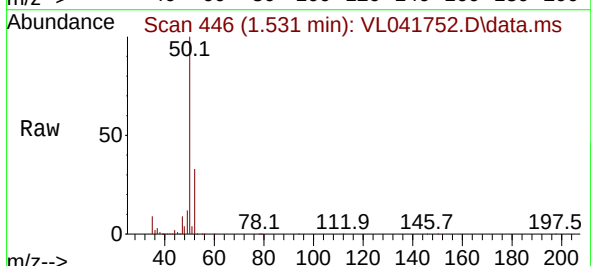
Acq: 16 Dec 2024 13:30

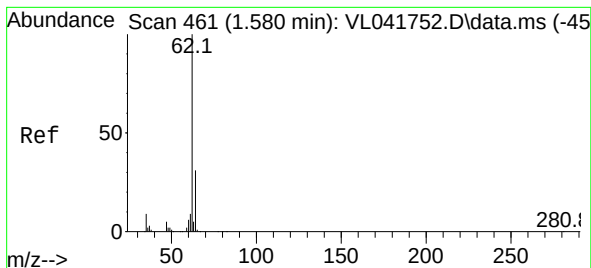
Tgt Ion: 50 Resp: 43215

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

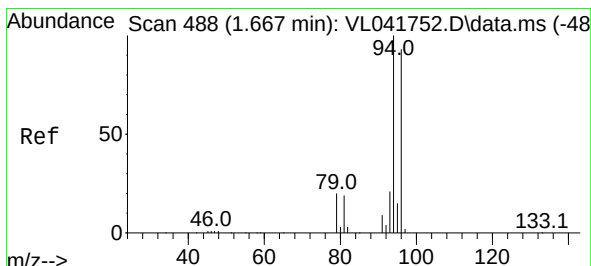
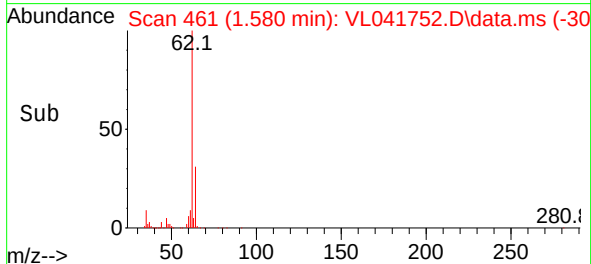
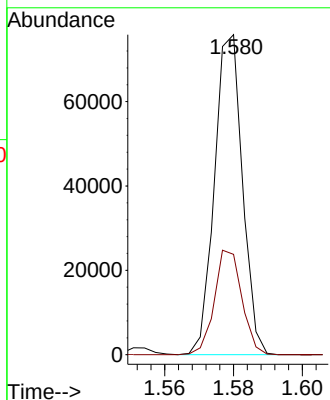
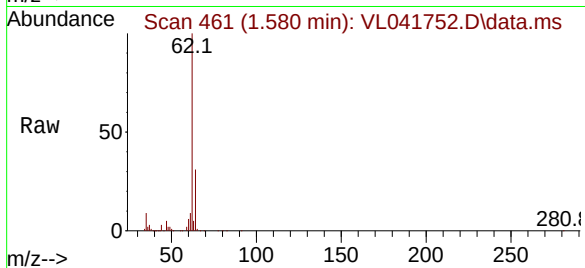
64 31.4 25.1 37.7

Manual Integrations

APPROVED

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

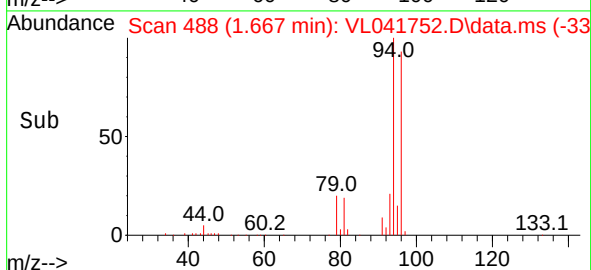
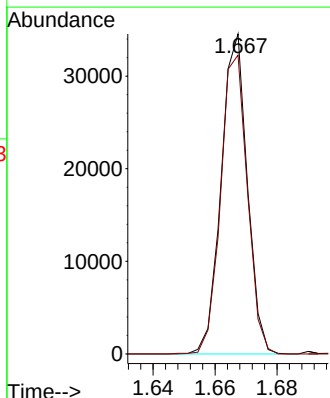
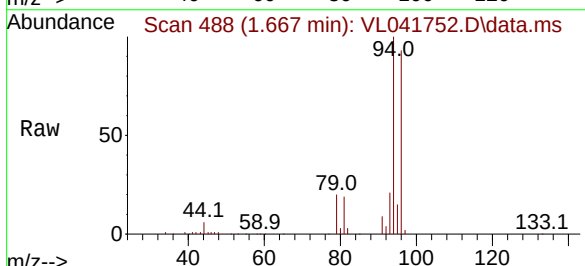
Acq: 16 Dec 2024 13:30

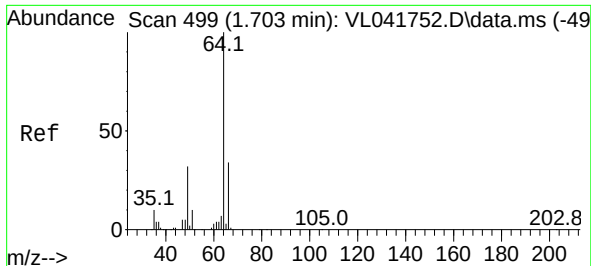
Tgt Ion: 94 Resp: 20252

Ion Ratio Lower Upper

94 100

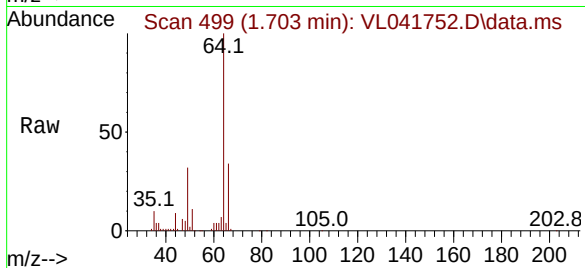
96 93.4 74.7 112.1





#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

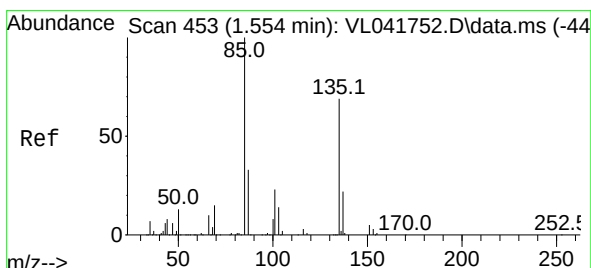
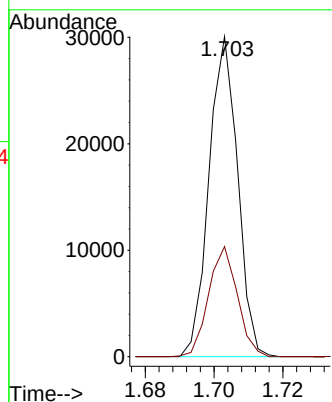
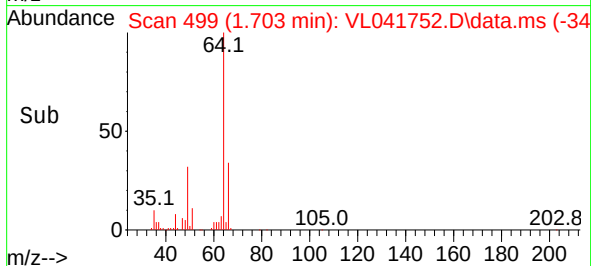
Instrument :
MSVOA_L
Client Sample Id :
VSTDICCC010



Tgt Ion: 64 Resp: 17400
Ion Ratio Lower Upper
64 100
66 34.4 27.5 41.3

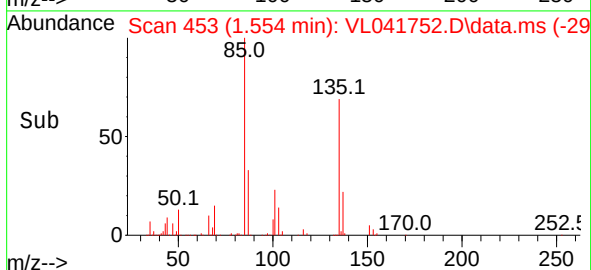
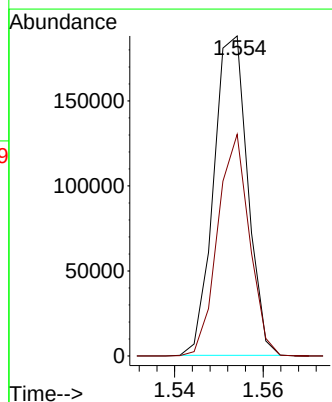
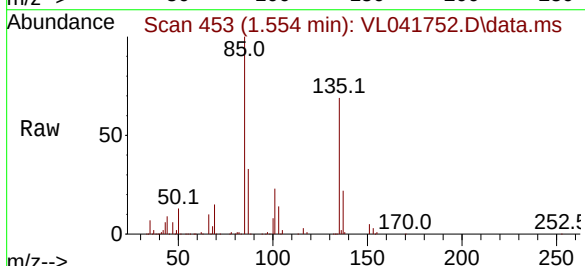
Manual Integrations
APPROVED

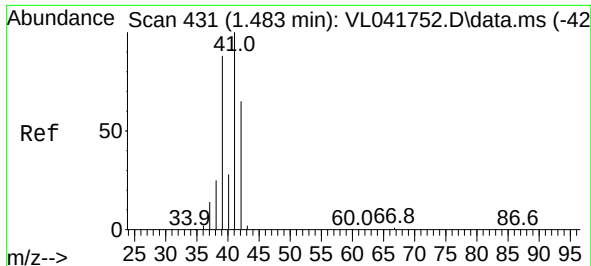
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 9.171 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

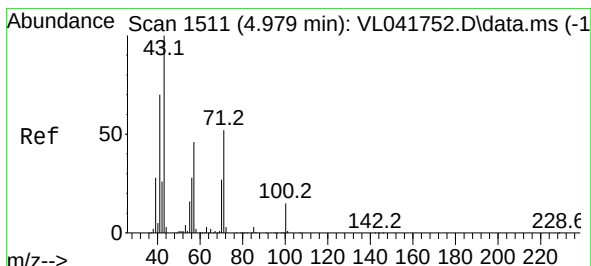
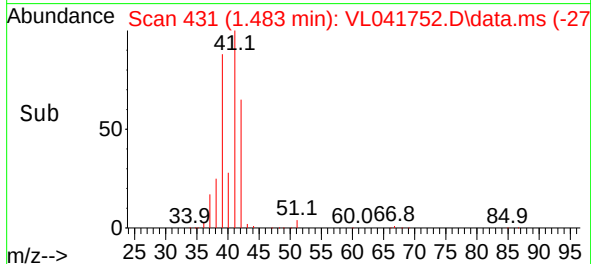
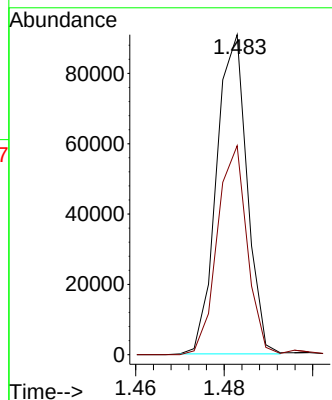
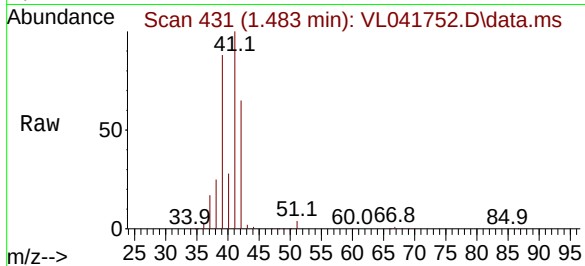
42 65.5 52.4 78.6

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

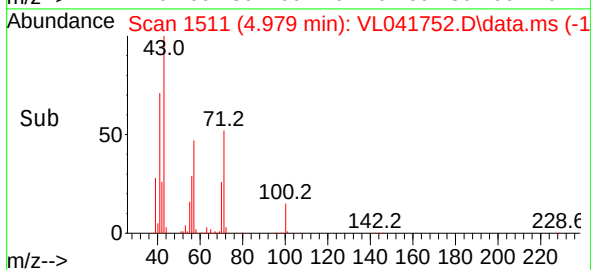
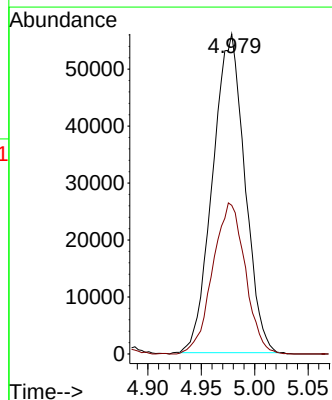
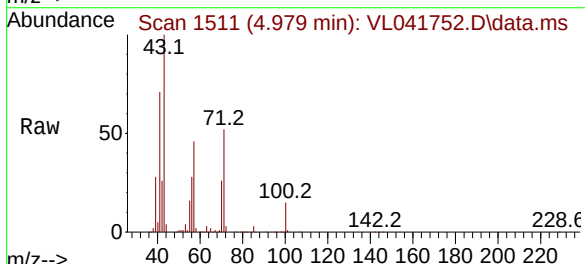
Acq: 16 Dec 2024 13:30

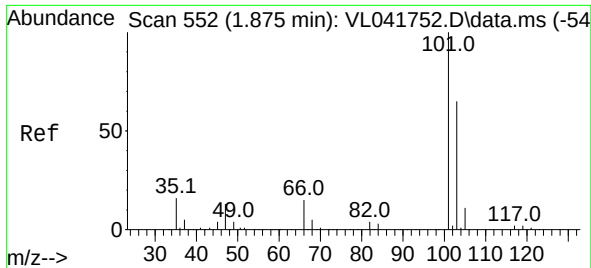
Tgt Ion: 43 Resp: 116969

Ion Ratio Lower Upper

43 100

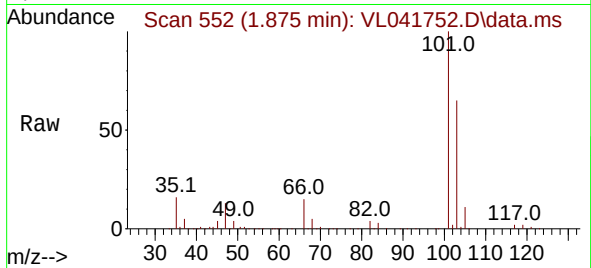
57 48.1 38.5 57.7





#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

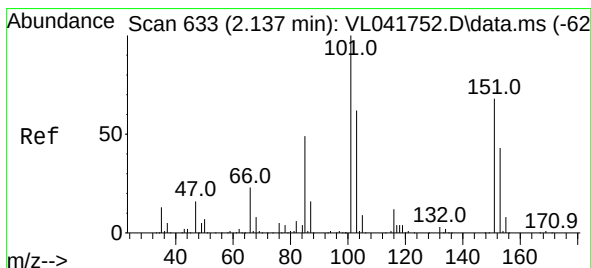
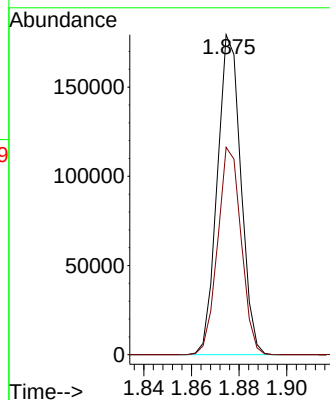
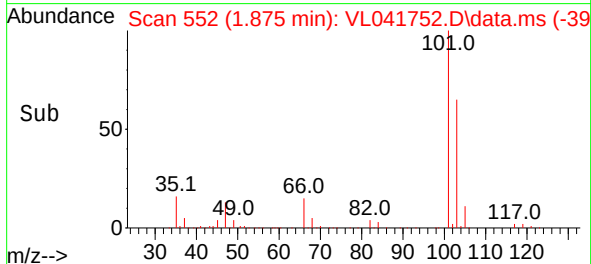
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



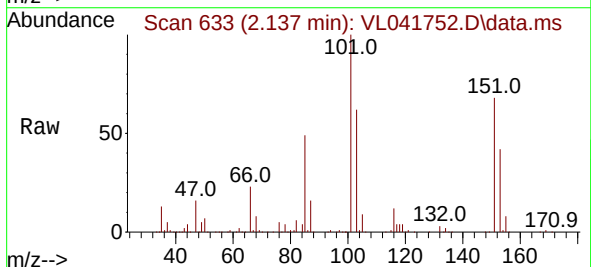
Tgt Ion:101 Resp: 12283
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.8

Manual Integrations
 APPROVED

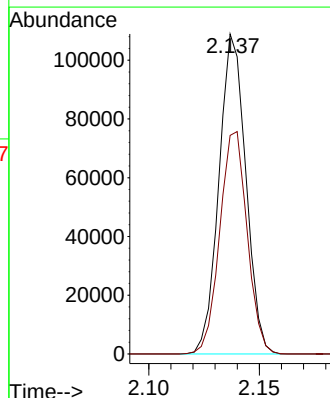
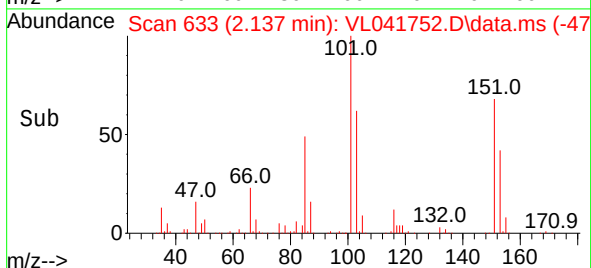
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

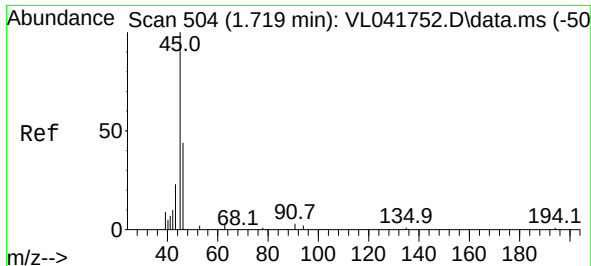


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.327 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30



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: 248

Ion Ratio Lower Upper

45 100

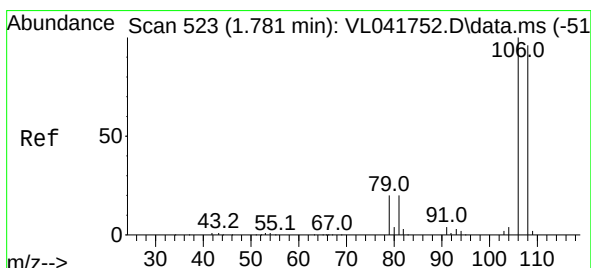
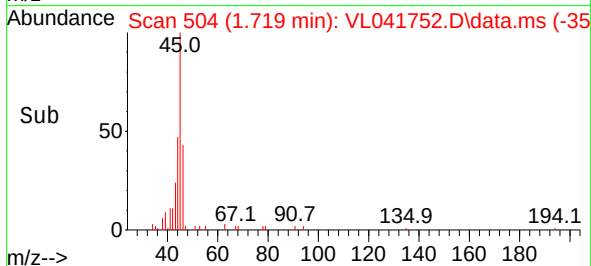
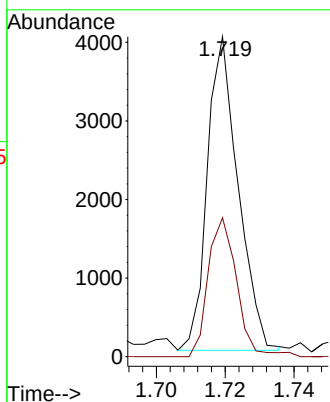
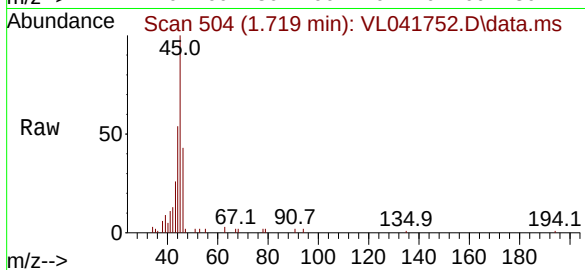
46 41.1 16.4 65.8

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

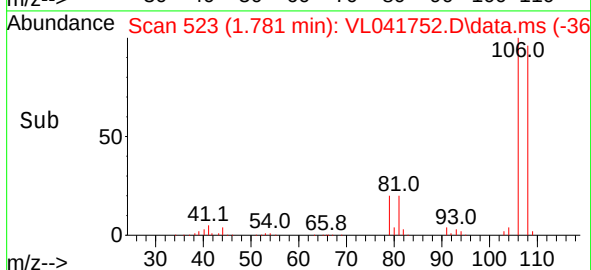
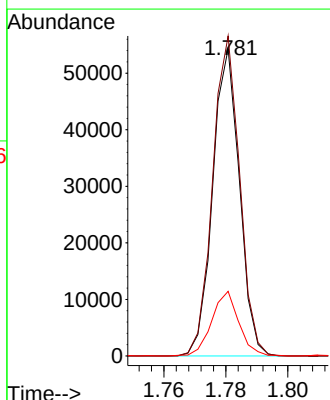
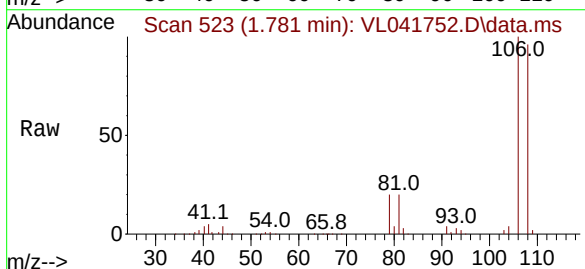
Tgt Ion:108 Resp: 32528

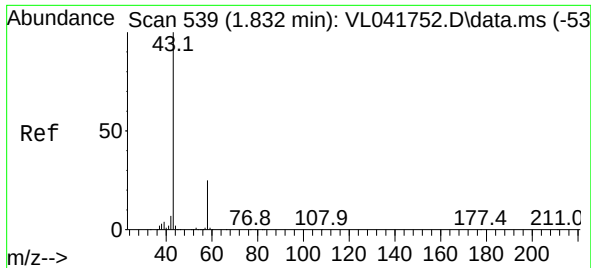
Ion Ratio Lower Upper

108 100

106 105.1 84.1 126.1

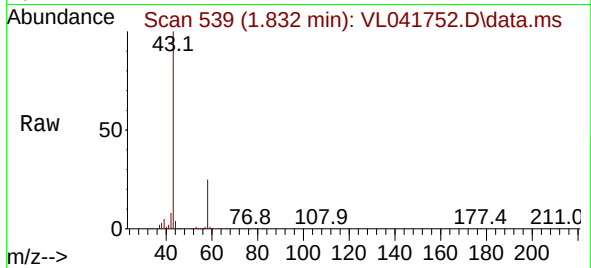
79 21.7 17.4 26.0





#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

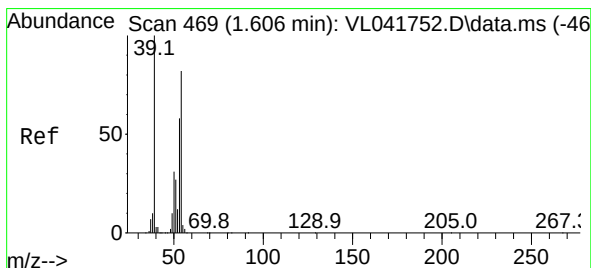
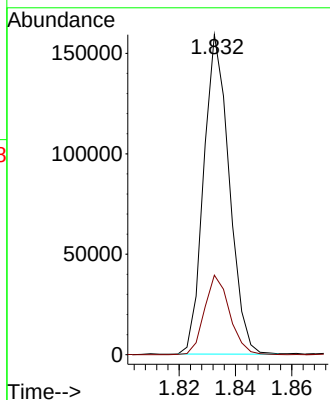
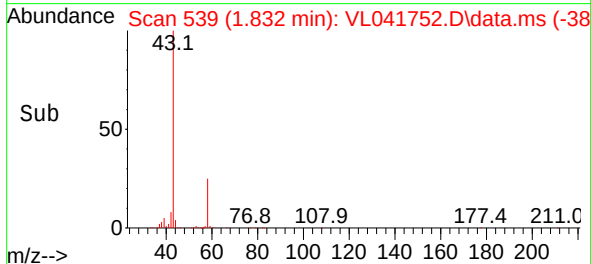
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



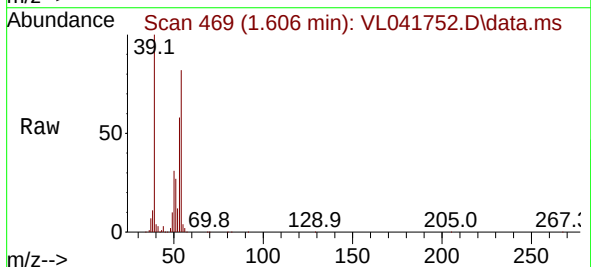
Tgt Ion: 43 Resp: 100229
Ion Ratio Lower Upper
43 100
58 24.6 19.7 29.5

Manual Integrations
APPROVED

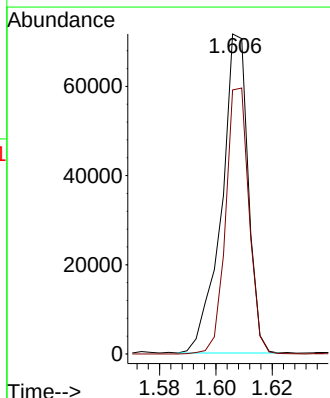
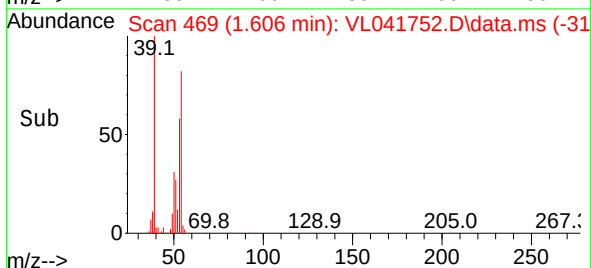
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

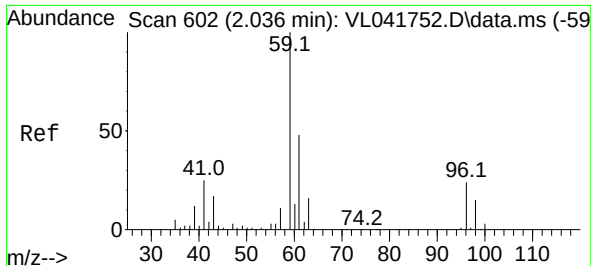


#16
1,3-Butadiene
Concen: 8.940 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



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

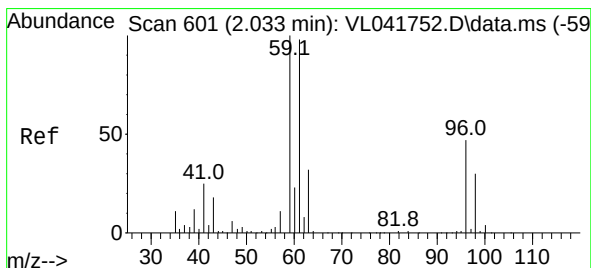
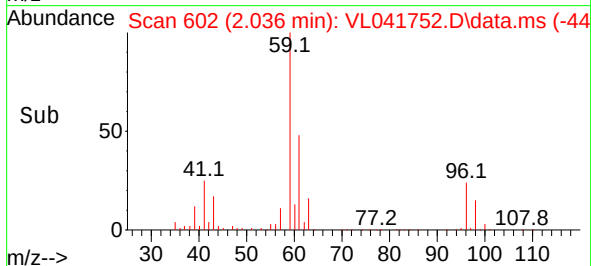
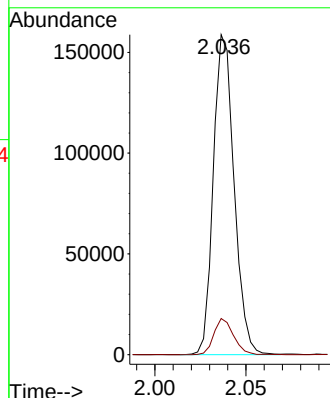
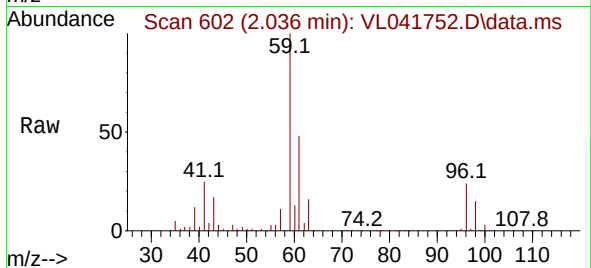
57 10.8 8.6 13.0

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

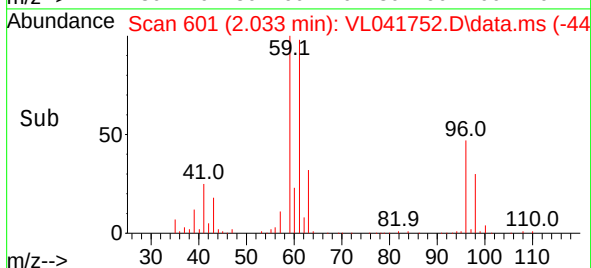
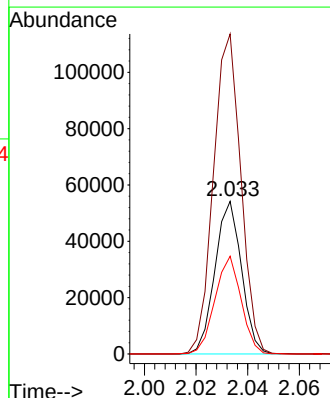
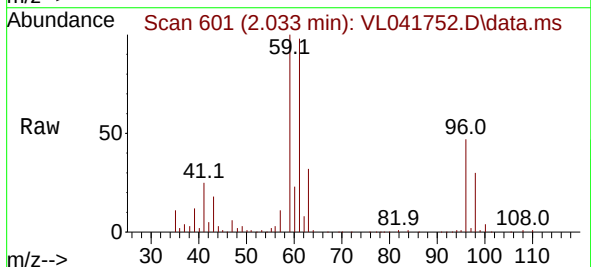
Tgt Ion: 96 Resp: 38775

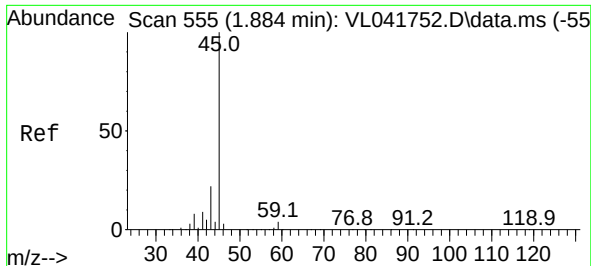
Ion Ratio Lower Upper

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

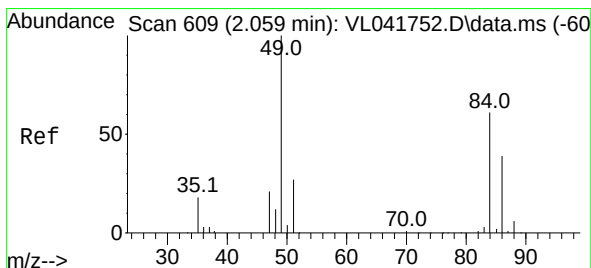
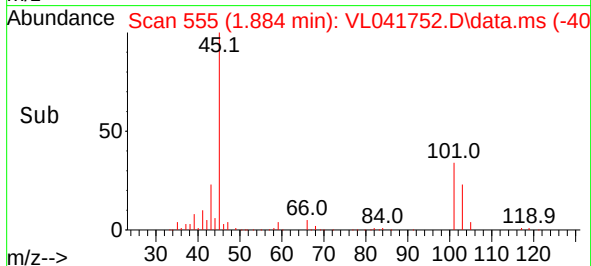
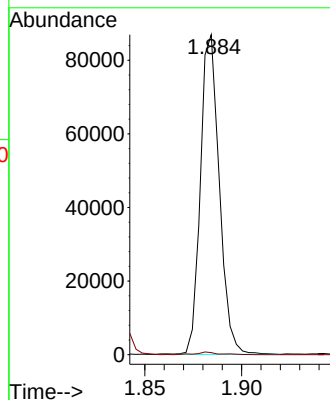
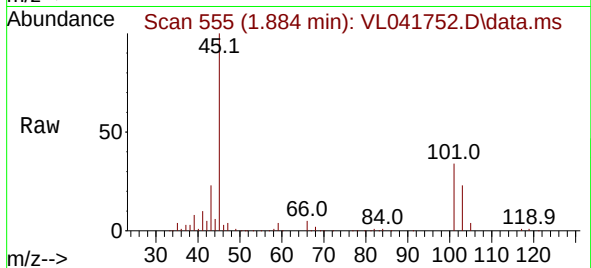
58 41.6 33.3 49.9

Manual Integrations

APPROVED

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

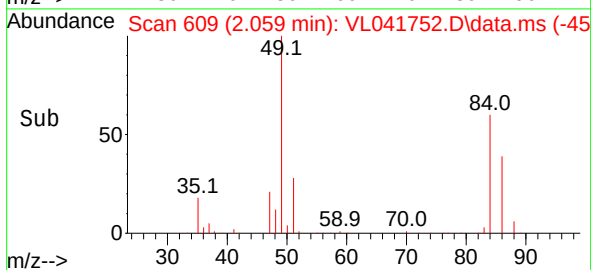
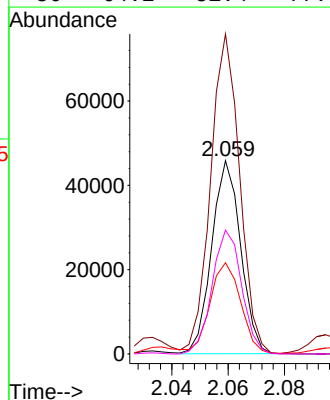
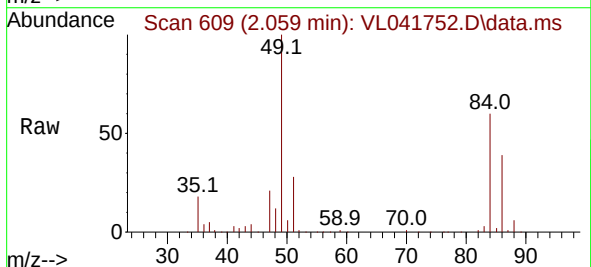
Ion Ratio Lower Upper

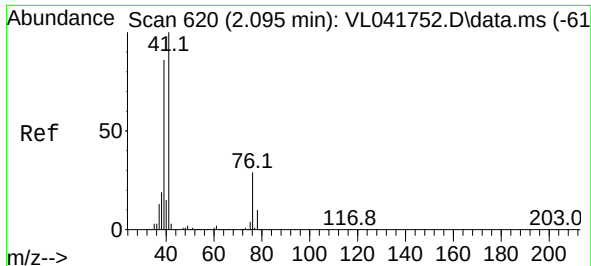
84 100

49 165.7 132.6 198.8

51 47.0 37.6 56.4

86 64.2 51.4 77.0





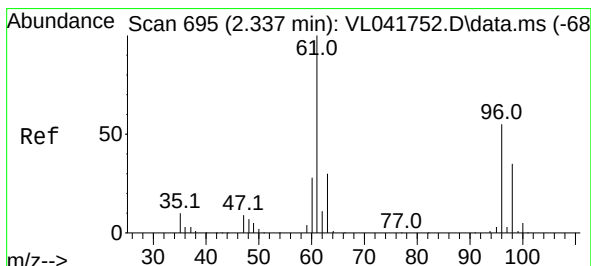
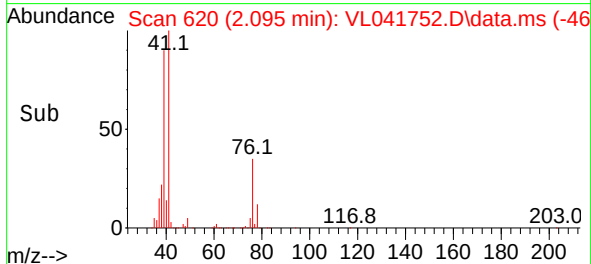
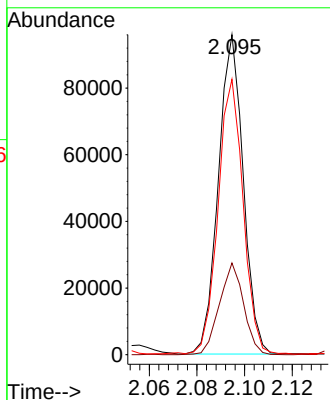
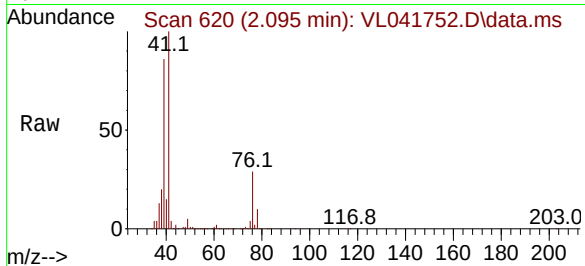
#21
 Allyl Chloride
 Concen: 9.588 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

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

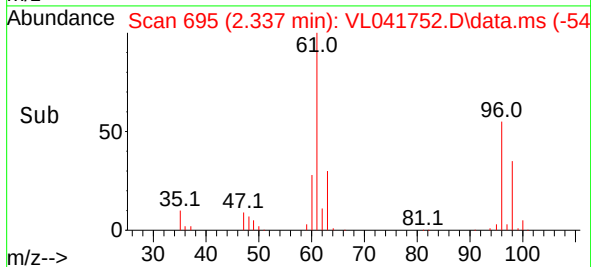
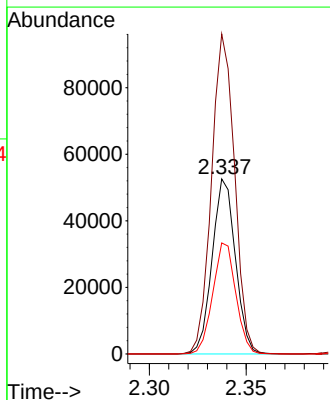
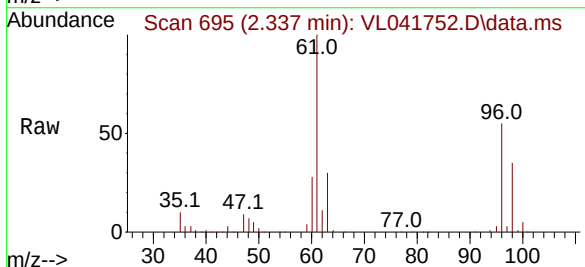
Manual Integrations
 APPROVED

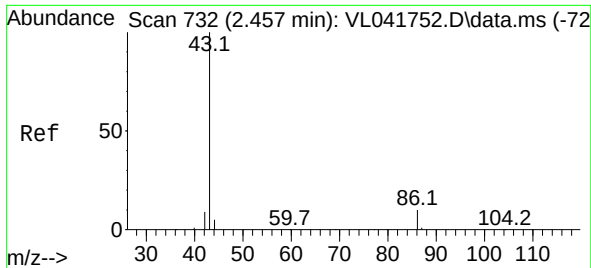
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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





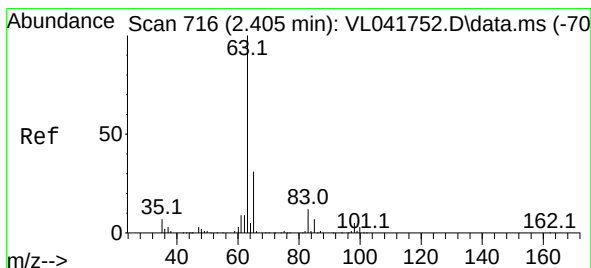
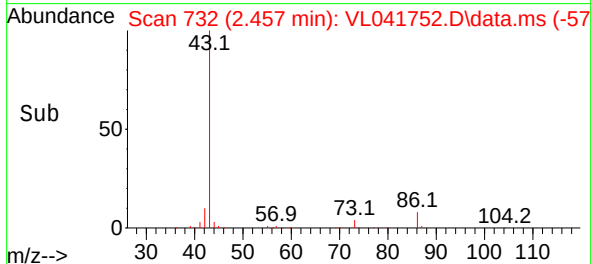
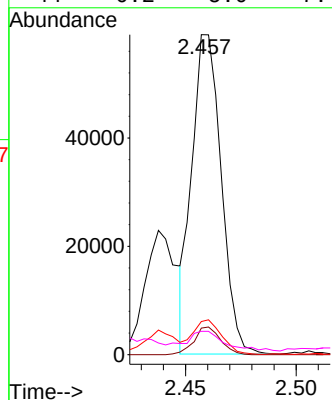
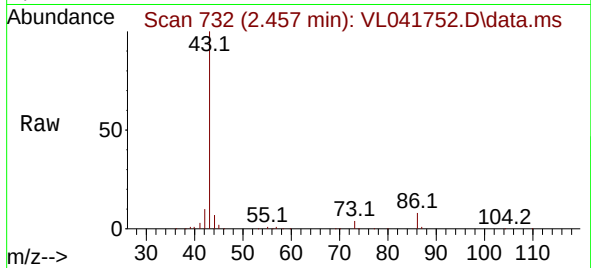
#23
 Vinyl Acetate
 Concen: 9.350 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

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

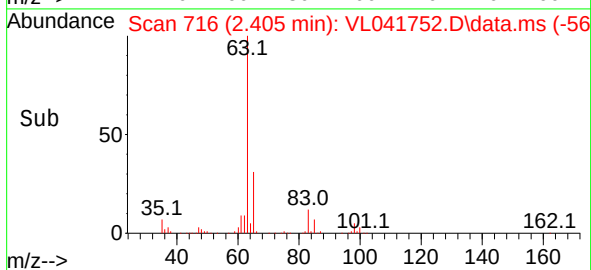
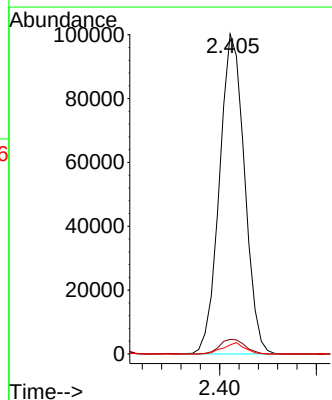
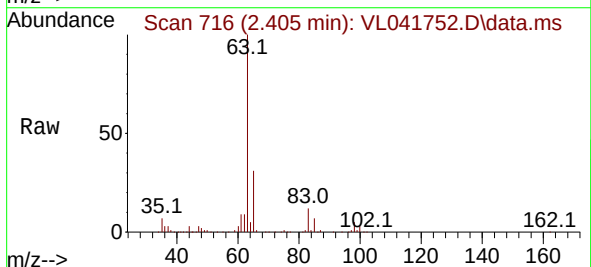
Manual Integrations
 APPROVED

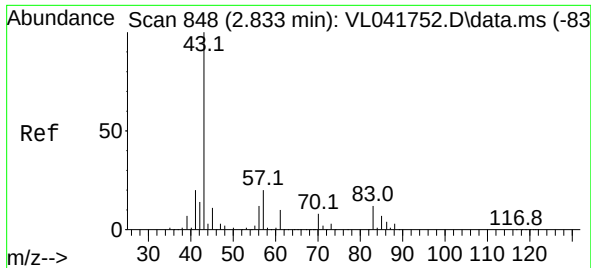
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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





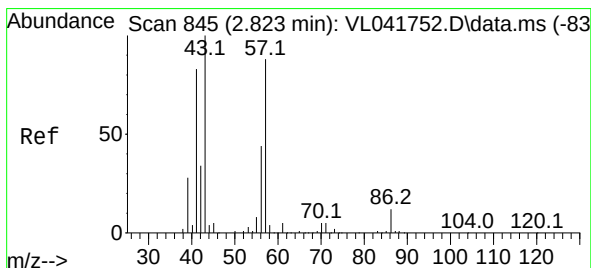
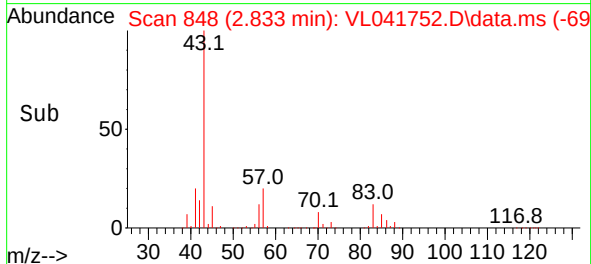
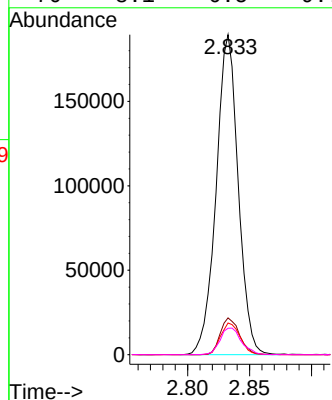
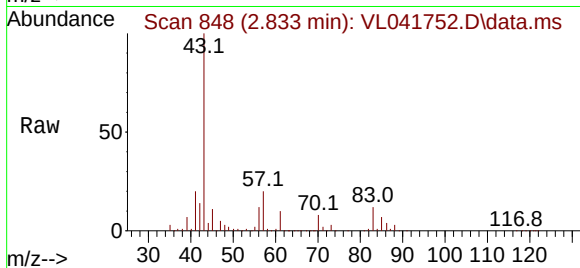
#25
Ethyl Acetate
Concen: 9.432 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

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

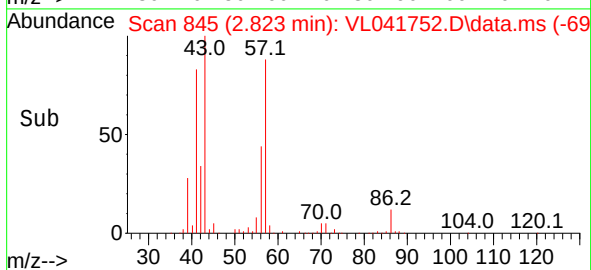
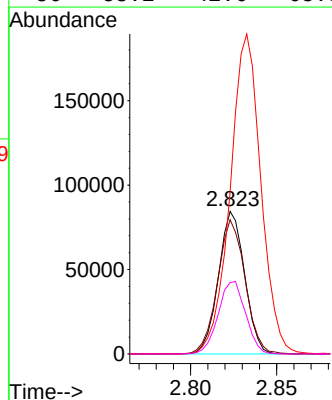
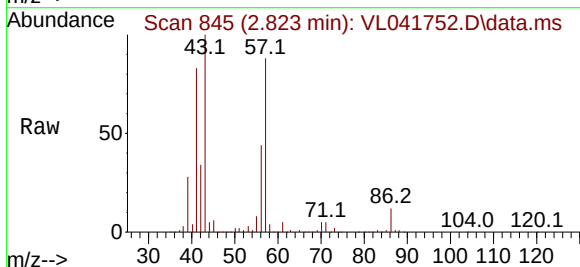
Manual Integrations
APPROVED

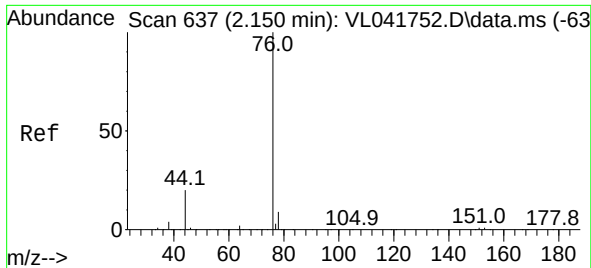
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

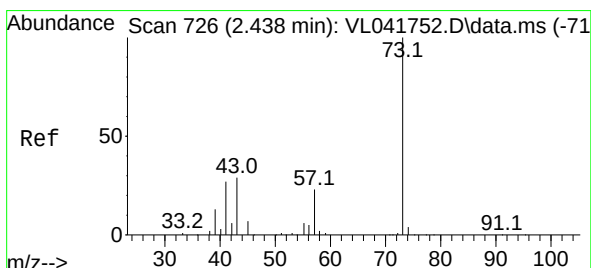
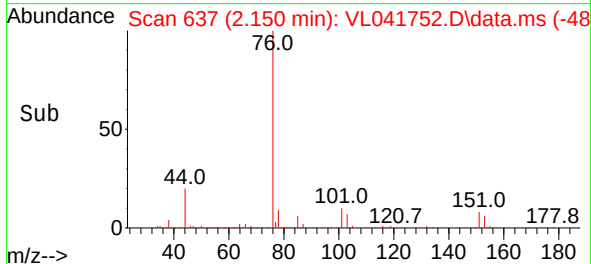
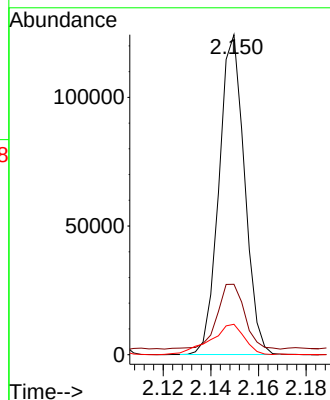
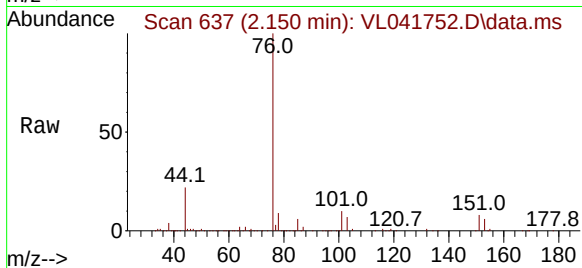
Tgt Ion: 76 Resp: 92329

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

Manual Integrations

APPROVED

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

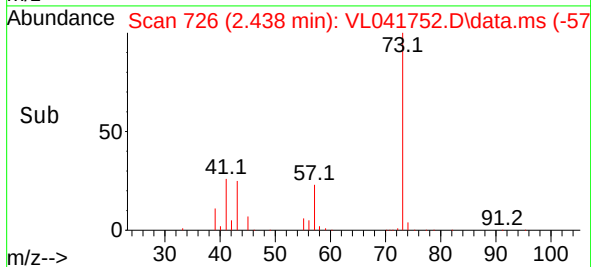
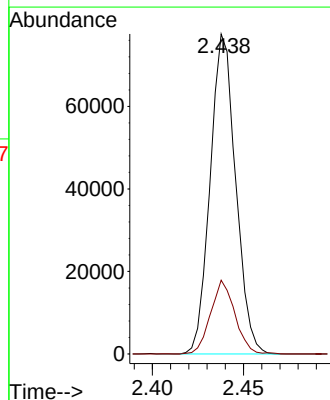
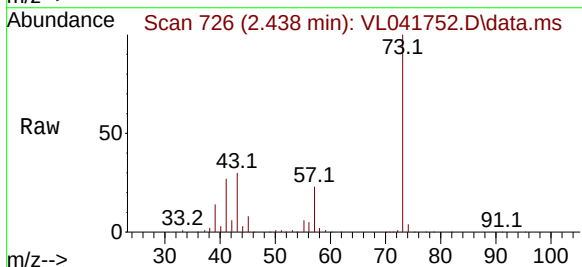
Delta R.T. 0.000 min

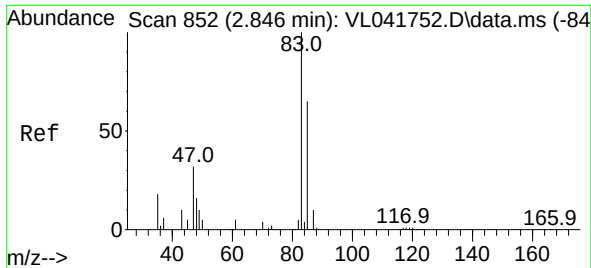
Lab File: VL041752.D

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

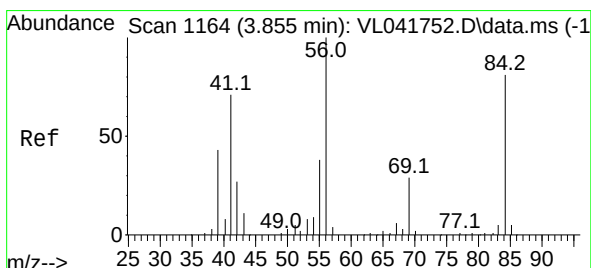
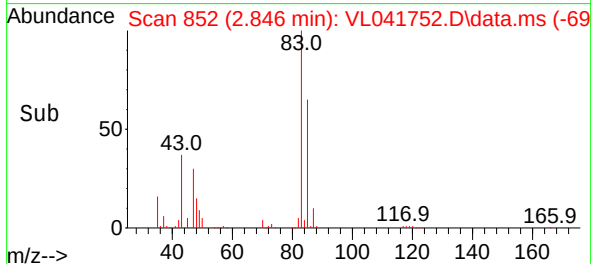
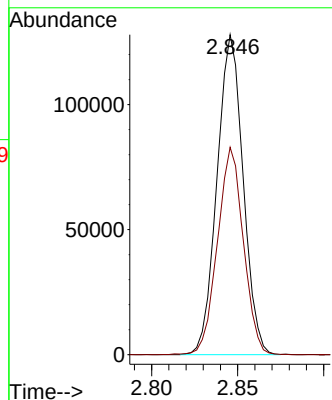
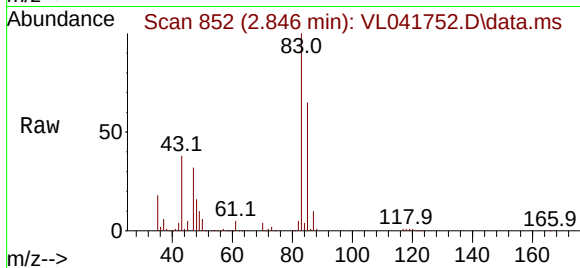
85 64.7 51.8 77.6

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

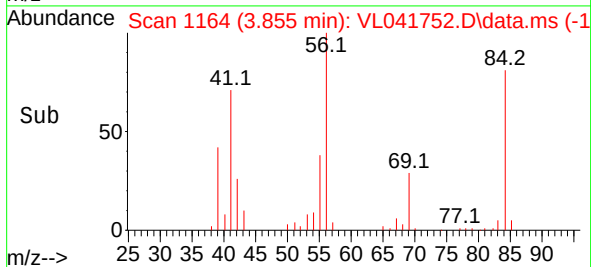
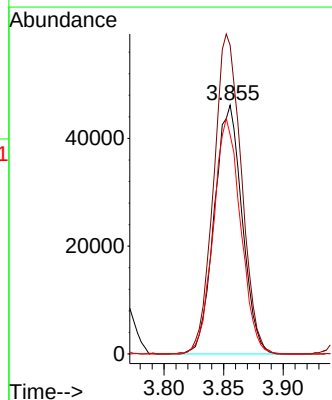
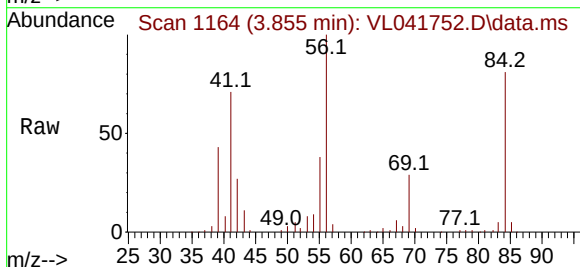
Tgt Ion: 84 Resp: 75156

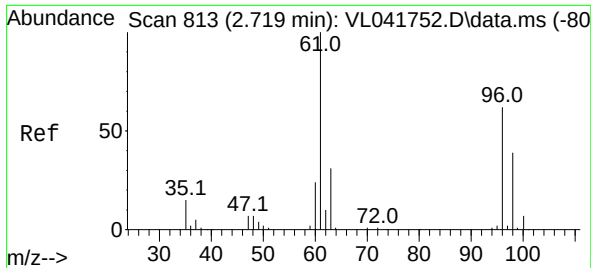
Ion Ratio Lower Upper

84 100

56 127.9 102.3 153.5

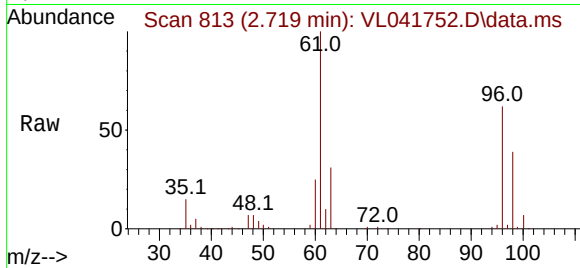
41 92.5 74.0 111.0





#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

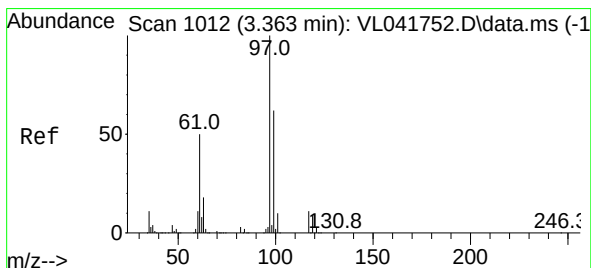
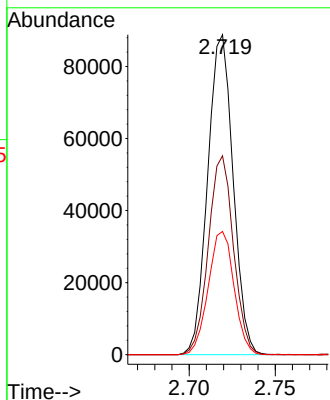
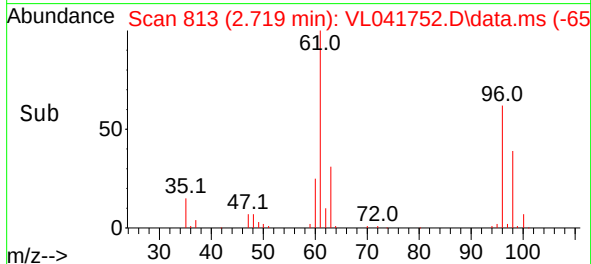
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



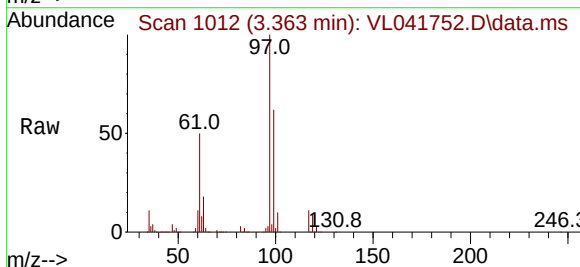
Tgt Ion: 61 Resp: 91270
 Ion Ratio Lower Upper
 61 100
 96 62.1 49.7 74.5
 98 38.5 30.8 46.2

Manual Integrations
 APPROVED

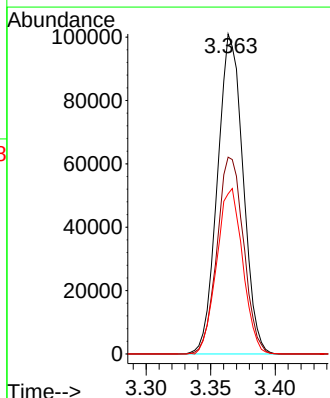
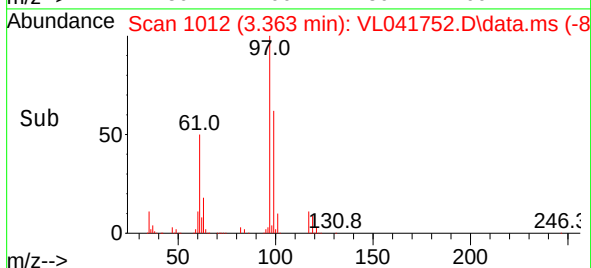
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

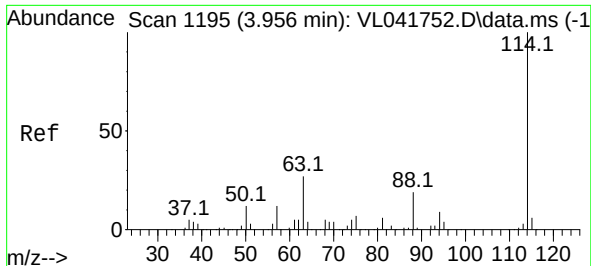


#32
 1,1,1-Trichloroethane
 Concen: 9.733 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30



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 :

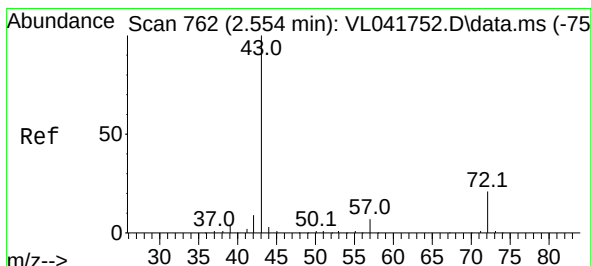
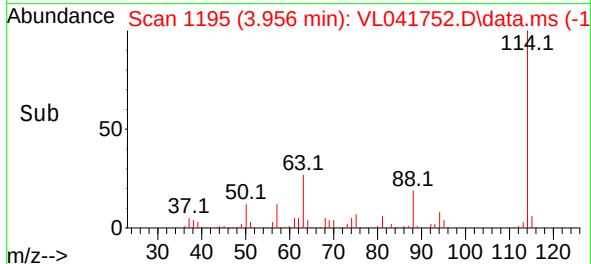
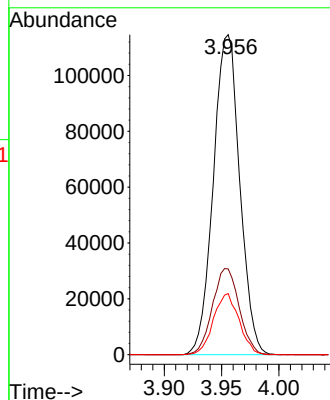
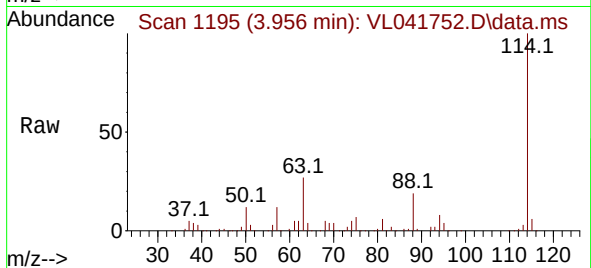
VSTDICCC010

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

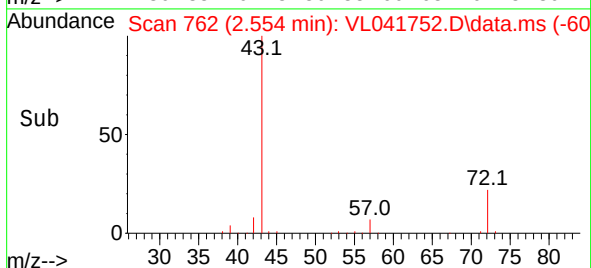
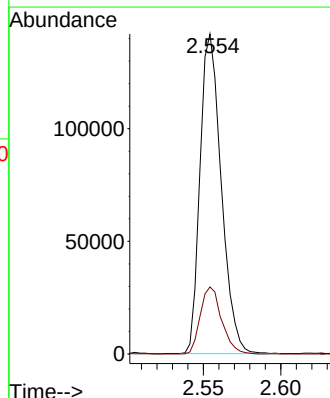
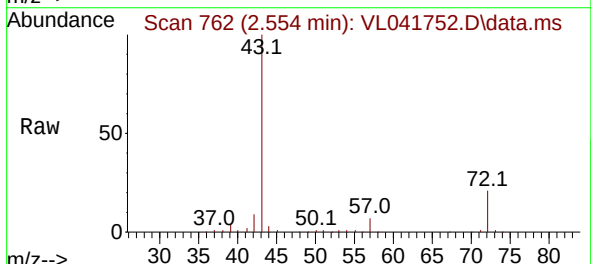
RT: 2.554 min Scan# 762

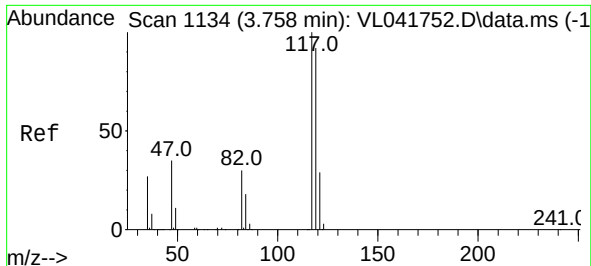
Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

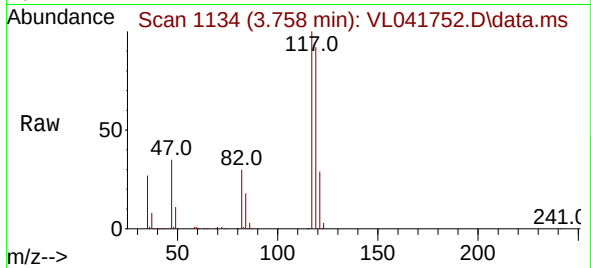
Tgt Ion: 43 Resp: 135331
 Ion Ratio Lower Upper
 43 100
 72 21.0 16.8 25.2





#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

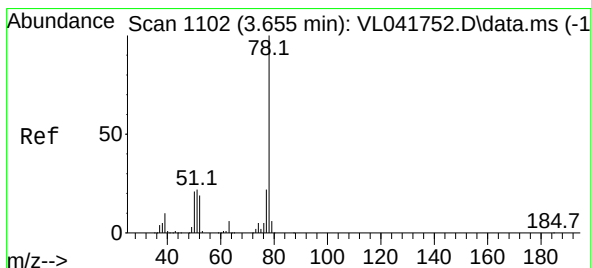
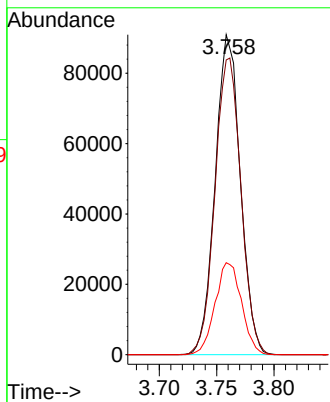
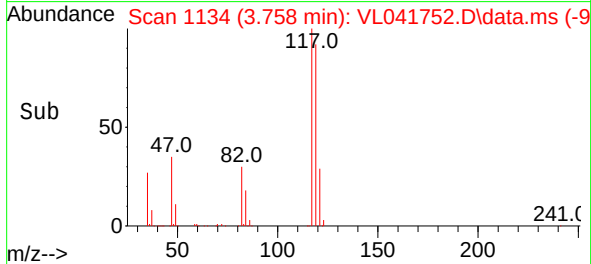
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

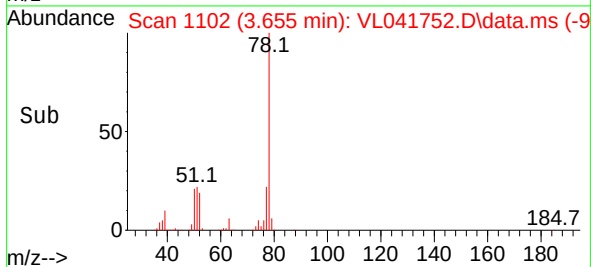
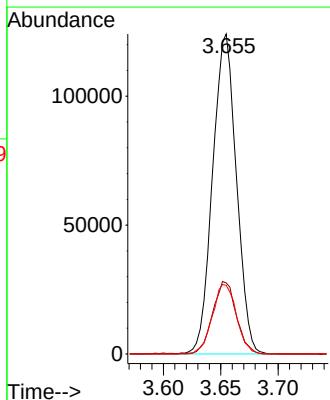
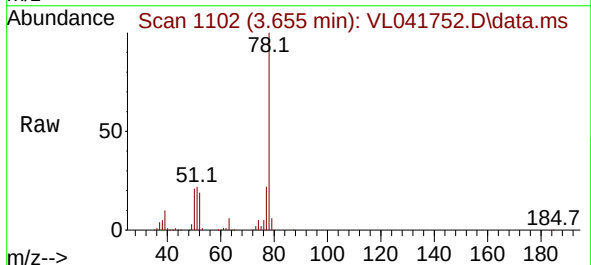
Manual Integrations
APPROVED

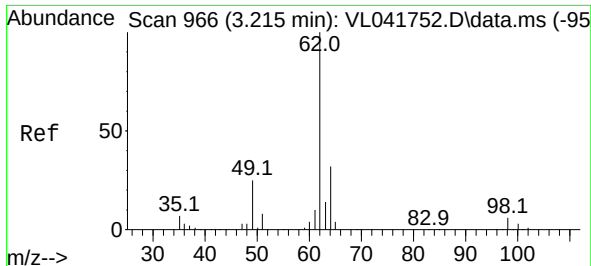
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





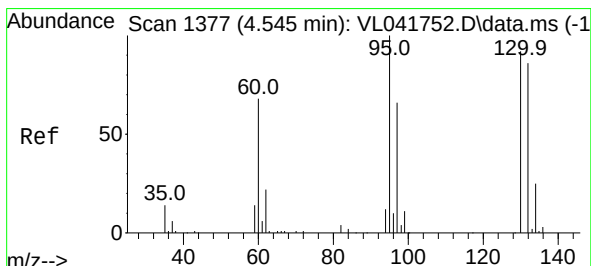
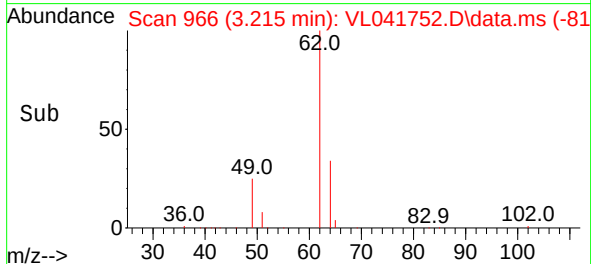
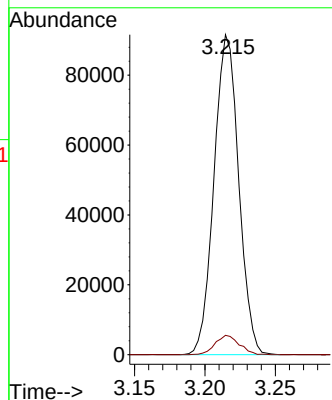
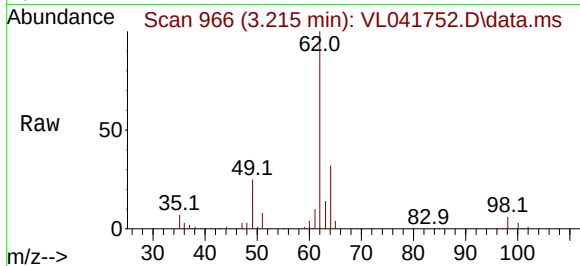
#37
1,2-Dichloroethane
Concen: 9.449 ppbv
RT: 3.215 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

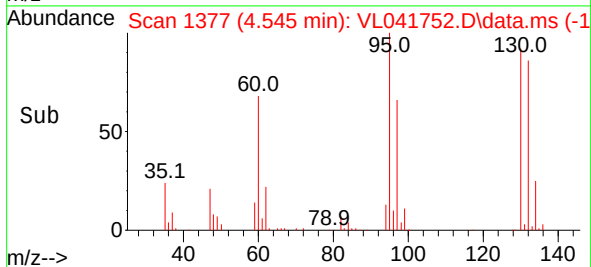
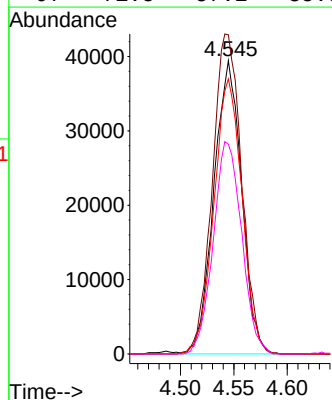
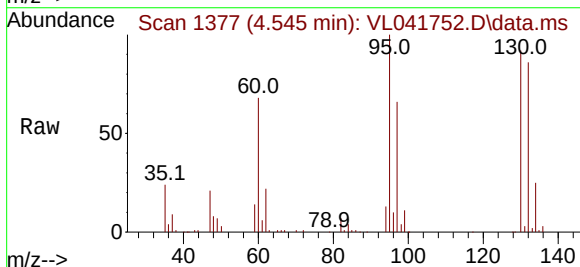
Manual Integrations
APPROVED

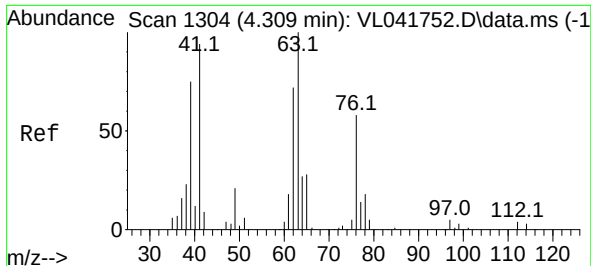
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

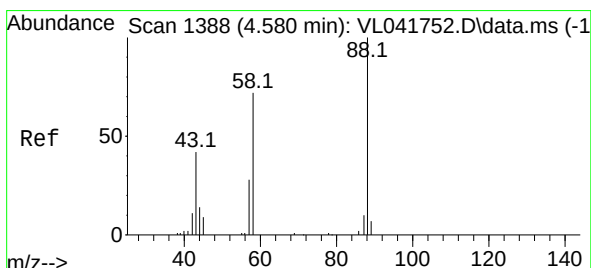
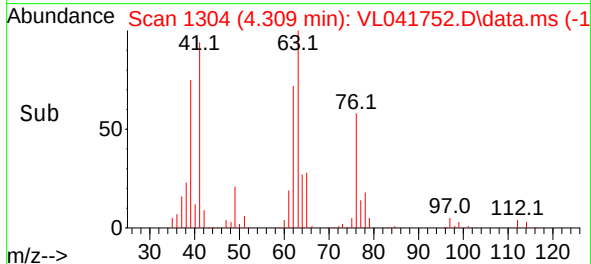
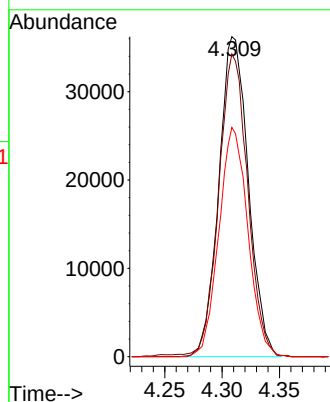
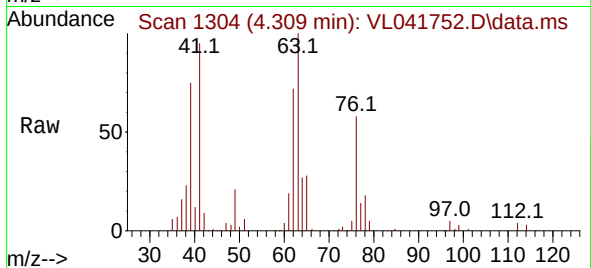
Tgt Ion: 63 Resp: 64789

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

Manual Integrations

APPROVED

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

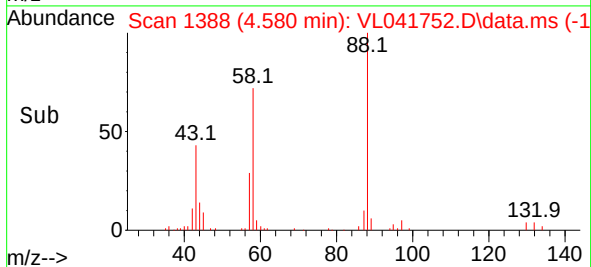
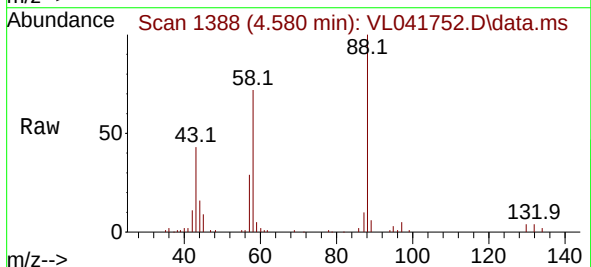
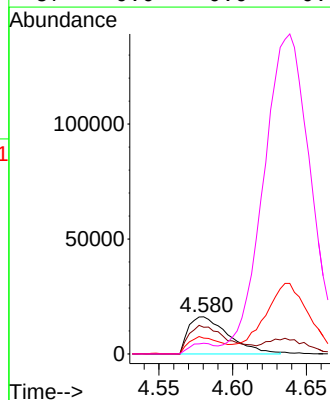
Delta R.T. 0.000 min

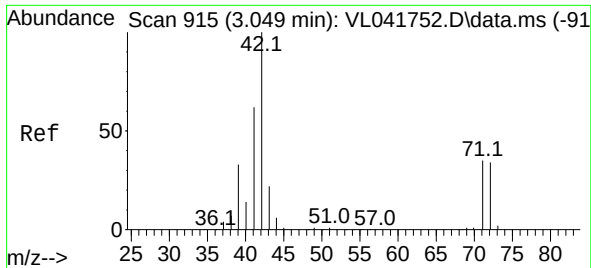
Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Tgt Ion: 88 Resp: 30658

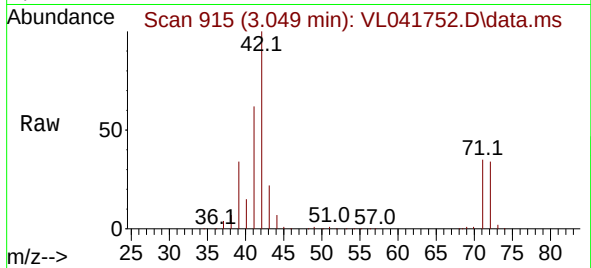
Ion	Ratio	Lower	Upper
88	100		
58	76.3	61.0	91.6
43	36.7	29.4	44.0
57	0.0	0.0	0.0





#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

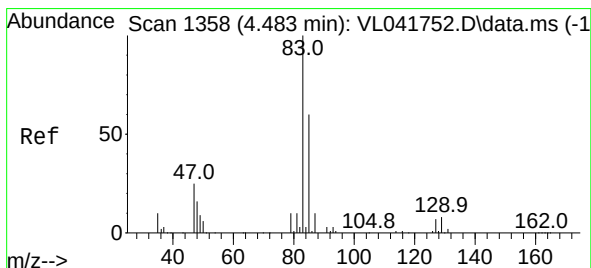
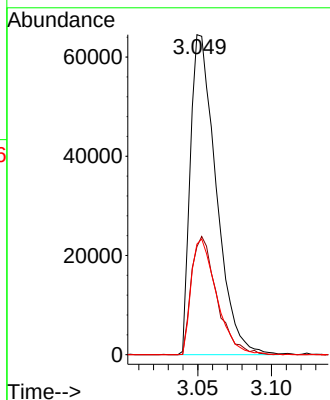
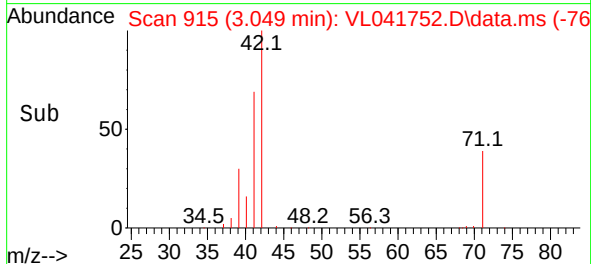
Instrument :
MSVOA_L
Client Sample Id :
VSTDICCC010



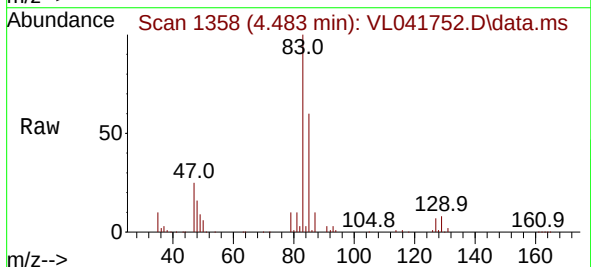
Tgt Ion: 42 Resp: 78480
Ion Ratio Lower Upper
42 100
72 36.4 29.1 43.7
71 35.5 28.4 42.6

Manual Integrations
APPROVED

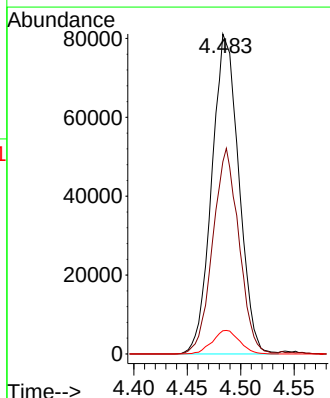
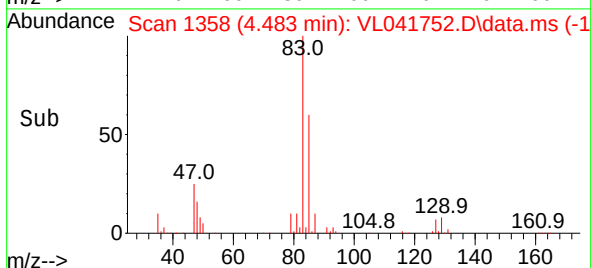
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

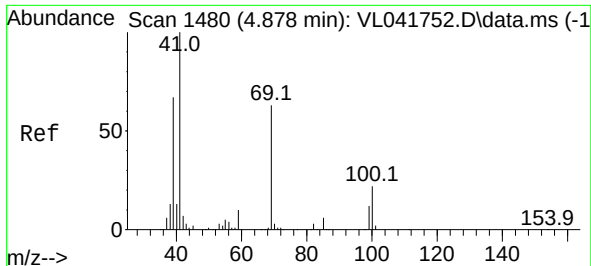


#42
Bromodichloromethane
Concen: 10.494 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



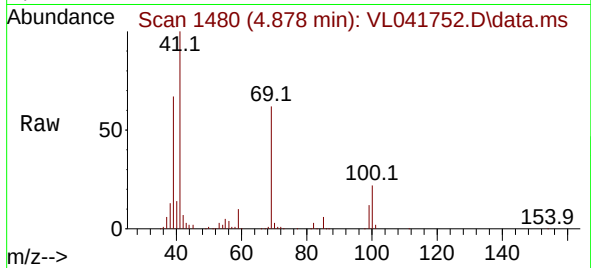
Tgt Ion: 83 Resp: 142819
Ion Ratio Lower Upper
83 100
85 60.0 48.0 72.0
127 7.3 5.8 8.8





#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

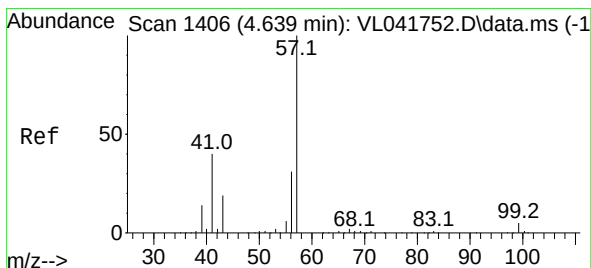
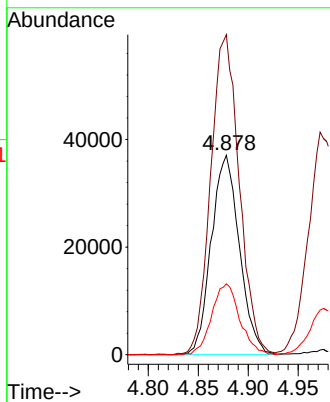
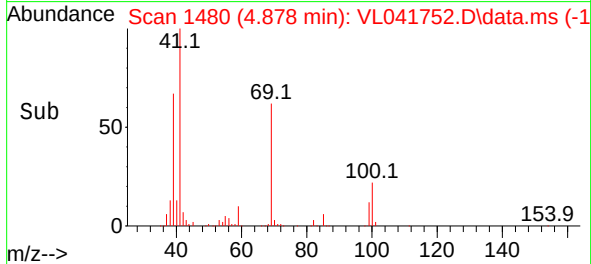
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



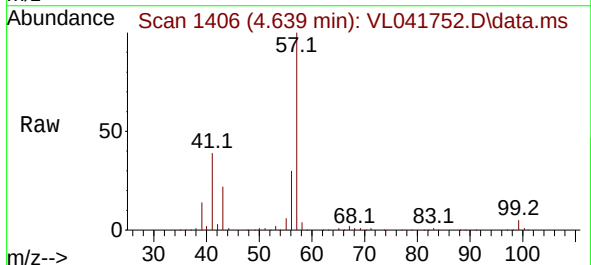
Tgt Ion: 69 Resp: 72578
Ion Ratio Lower Upper
69 100
41 162.9 130.3 195.5
100 35.4 28.3 42.5

Manual Integrations
APPROVED

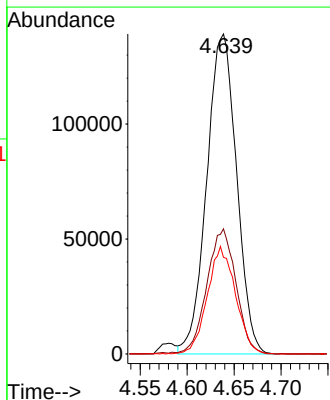
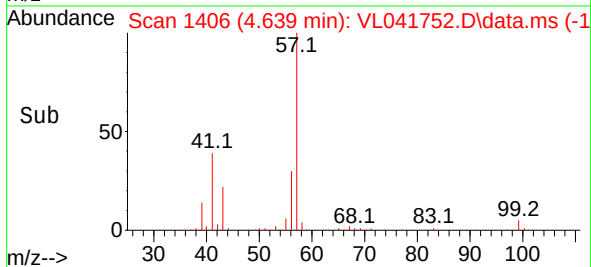
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

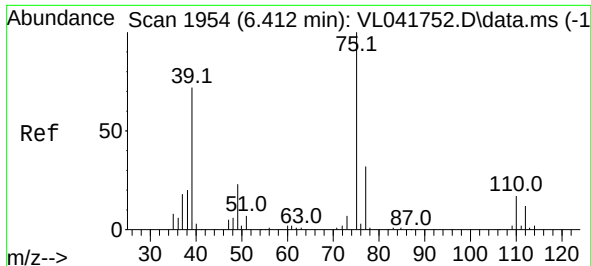


#44
2,2,4-Trimethylpentane
Concen: 9.479 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



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

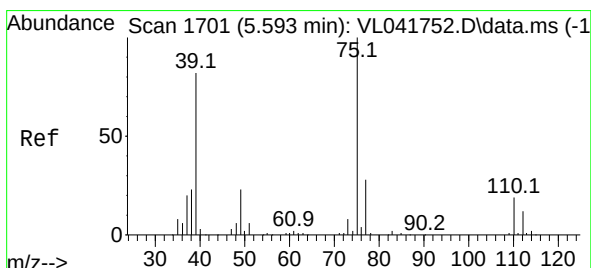
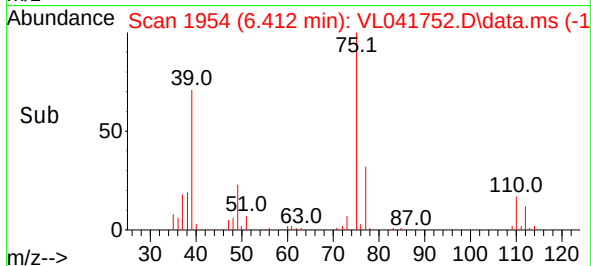
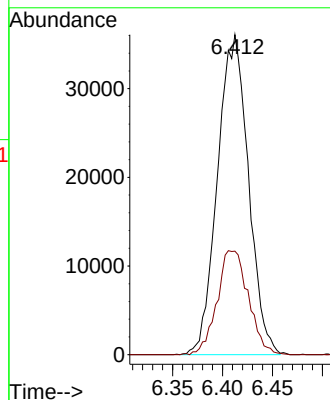
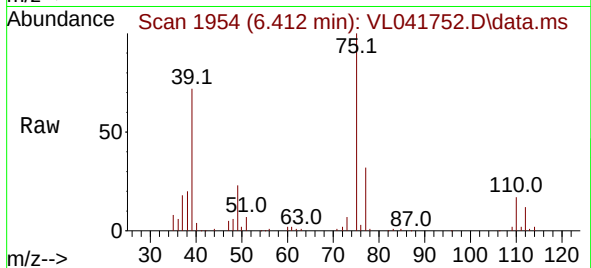
77 32.4 25.9 38.9

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

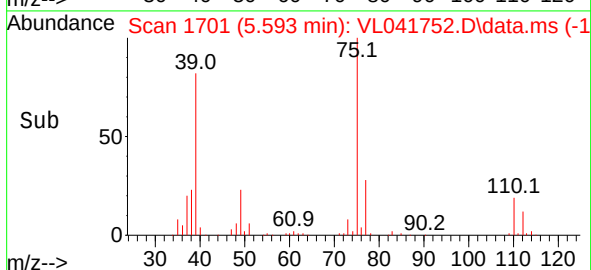
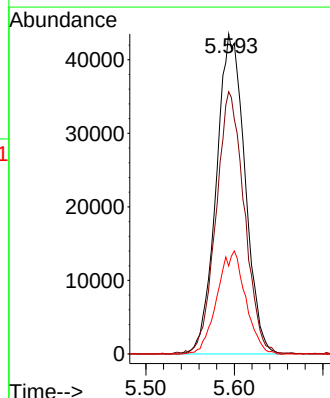
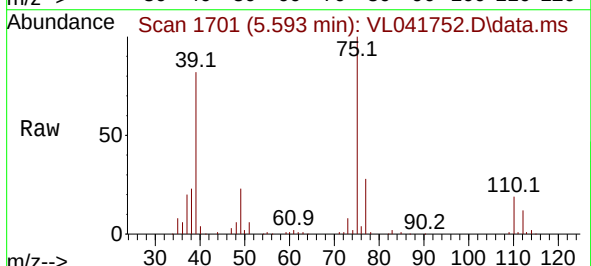
Tgt Ion: 75 Resp: 97992

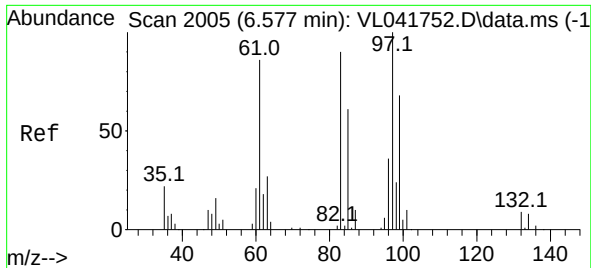
Ion Ratio Lower Upper

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 :

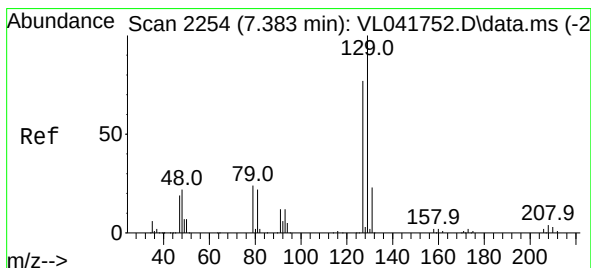
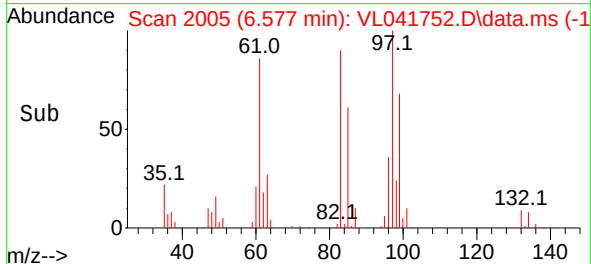
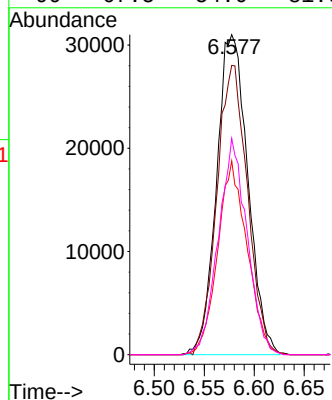
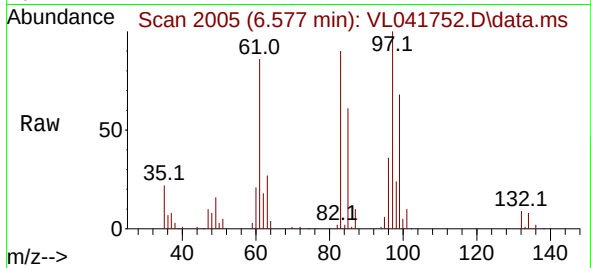
VSTDICCC010

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

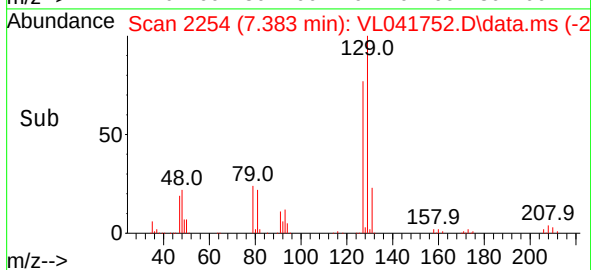
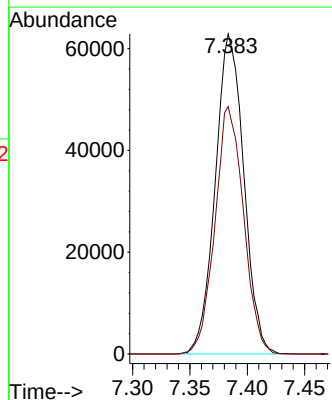
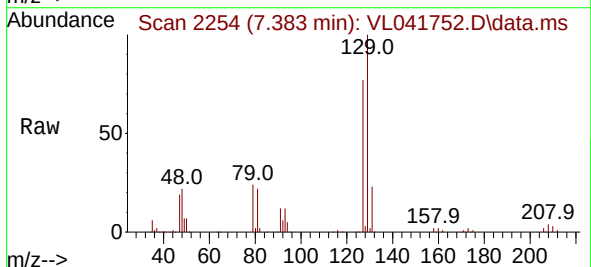
APPROVED

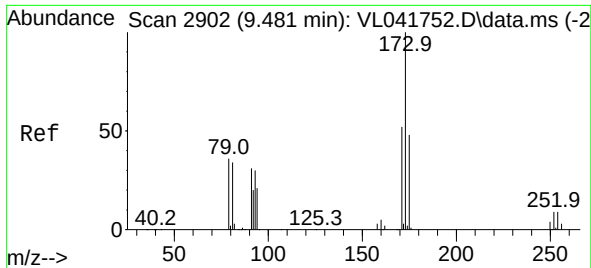
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

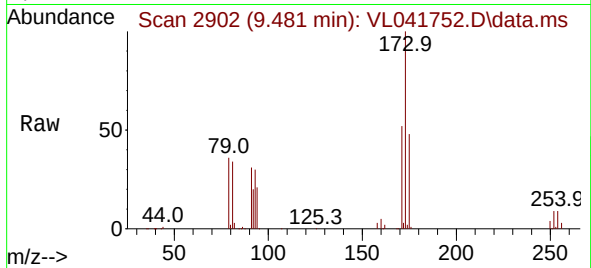
Tgt Ion:129 Resp: 108899
Ion Ratio Lower Upper
129 100
127 77.5 38.8 116.3





#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

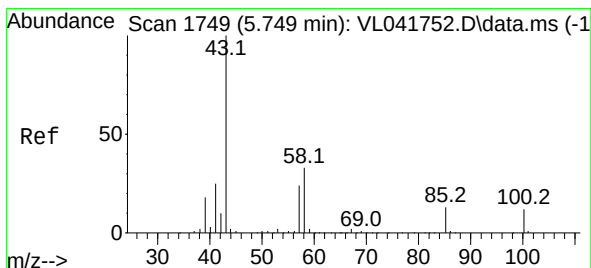
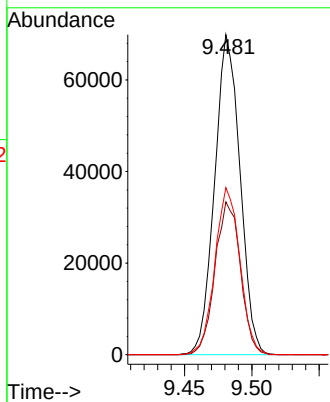
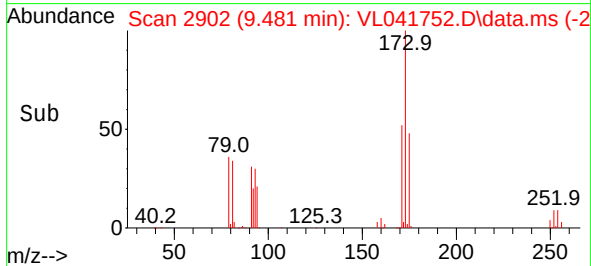
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

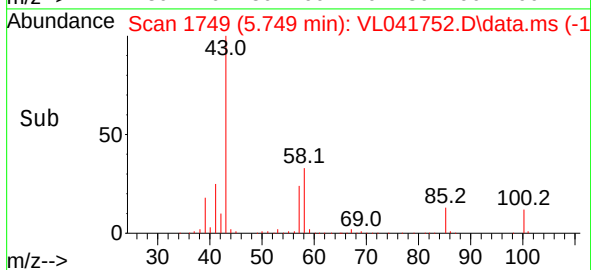
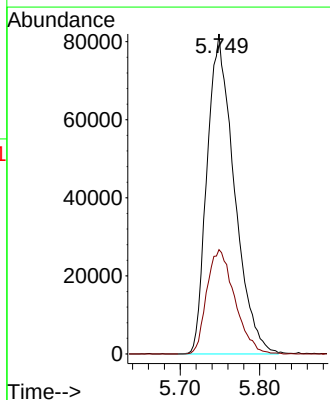
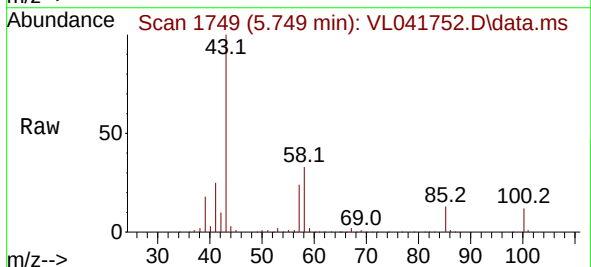
Manual Integrations
APPROVED

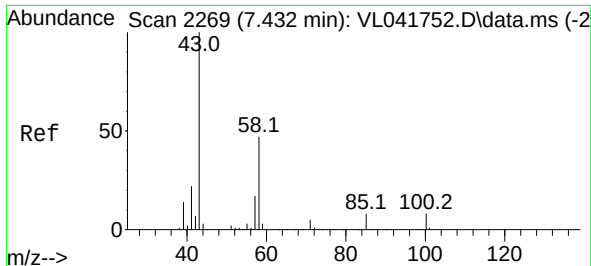
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





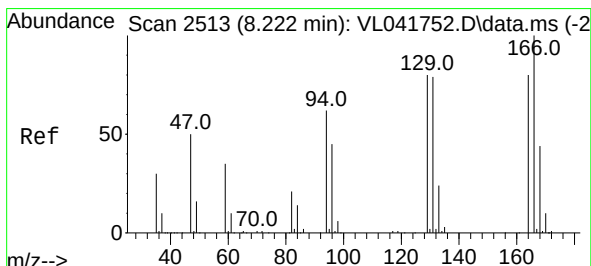
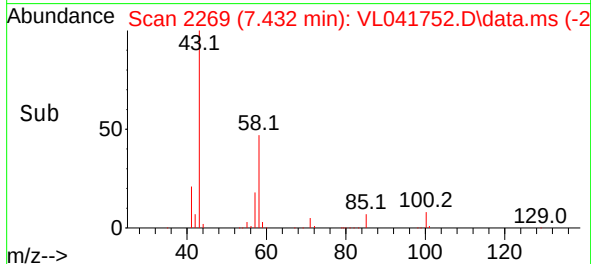
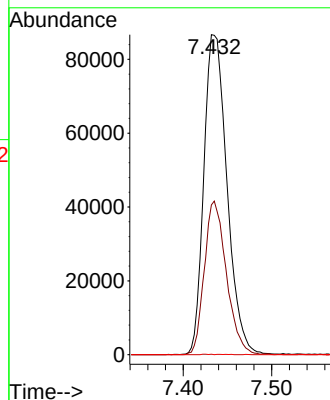
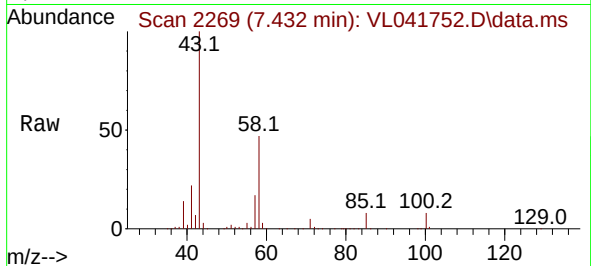
#51
2-Hexanone
Concen: 9.650 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

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

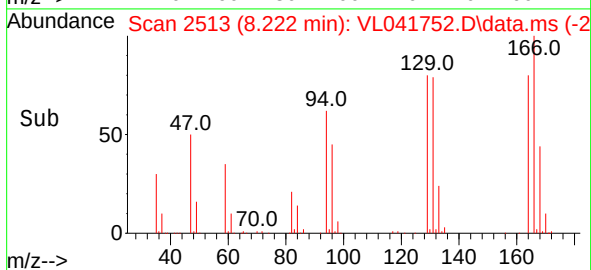
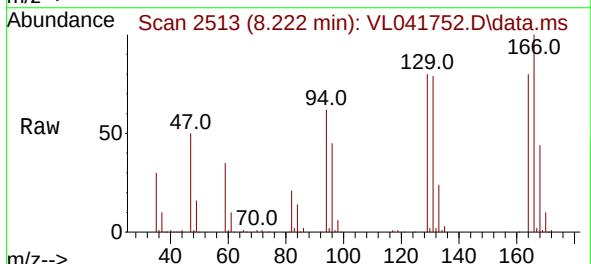
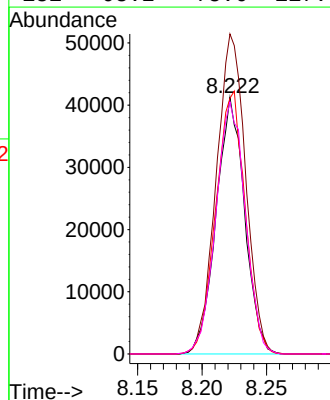
Manual Integrations
APPROVED

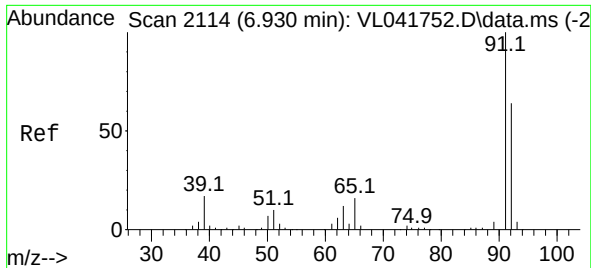
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

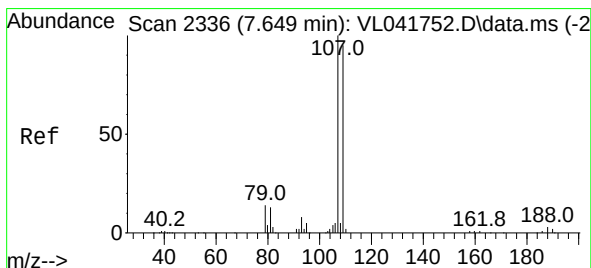
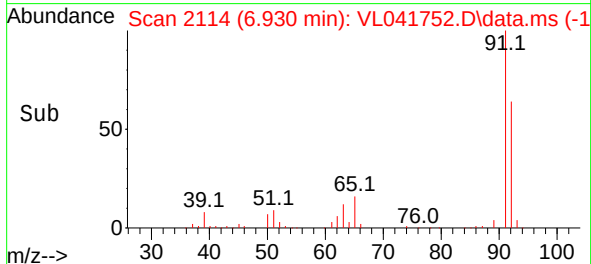
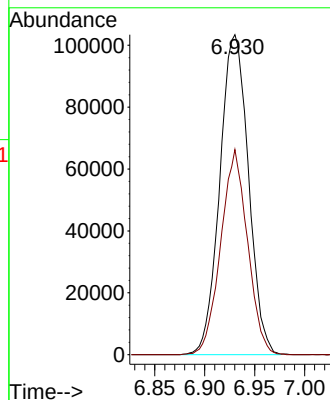
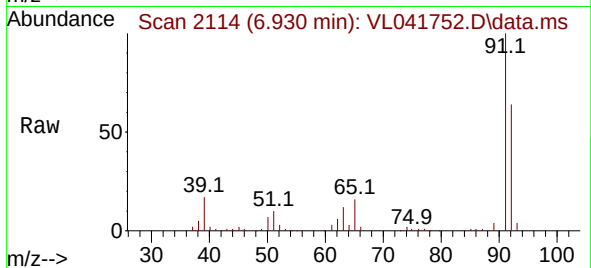
92 59.9 47.9 71.9

Manual Integrations

APPROVED

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

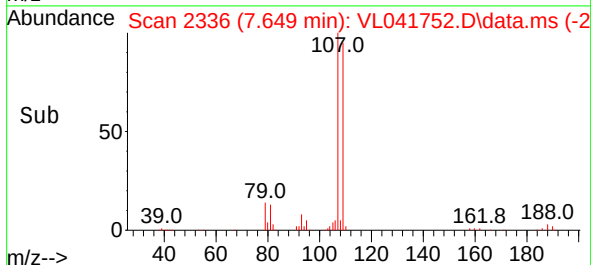
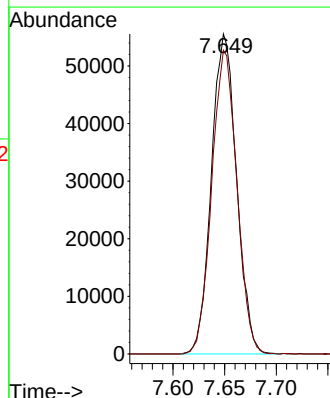
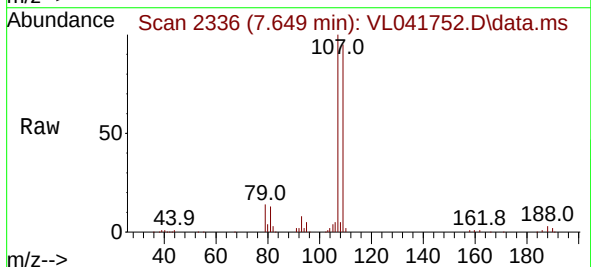
Acq: 16 Dec 2024 13:30

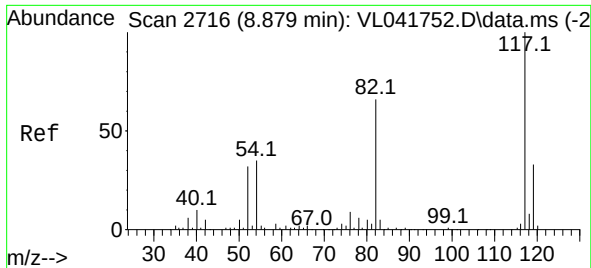
Tgt Ion:107 Resp: 94016

Ion Ratio Lower Upper

107 100

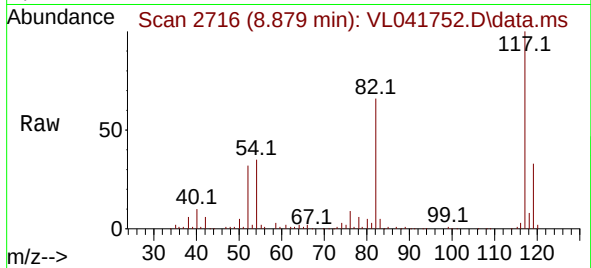
109 94.9 75.9 113.9





#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

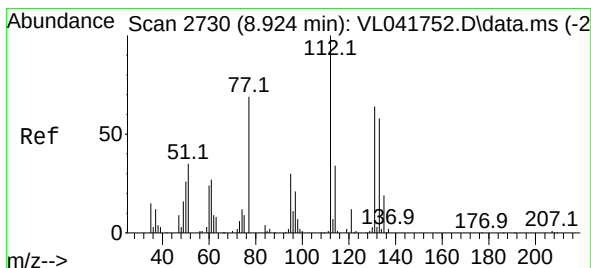
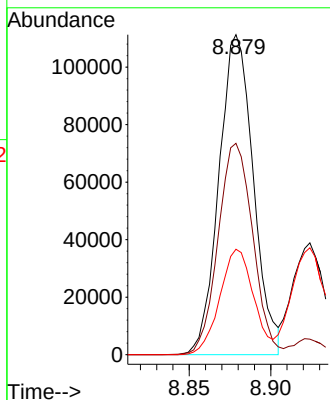
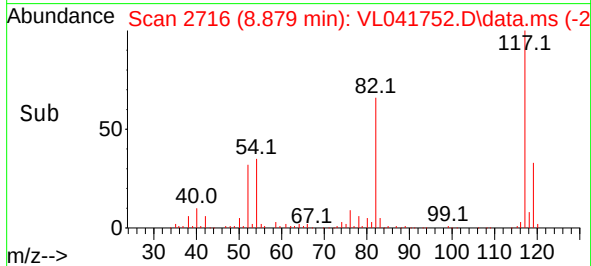
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

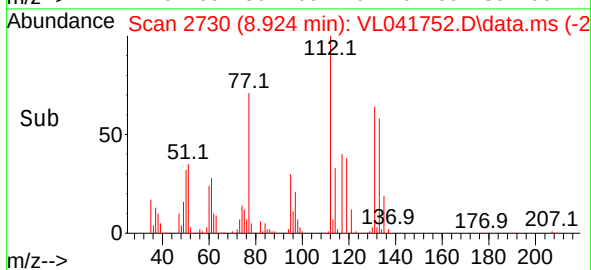
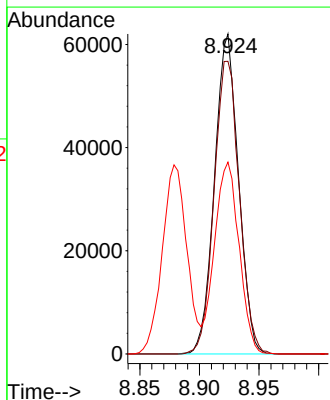
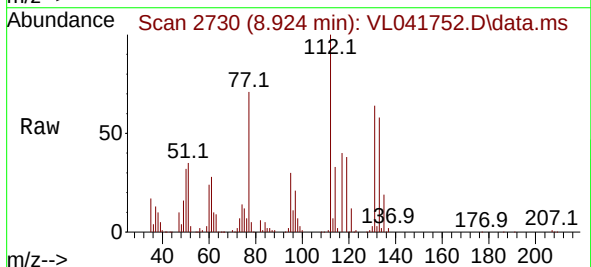
Manual Integrations
APPROVED

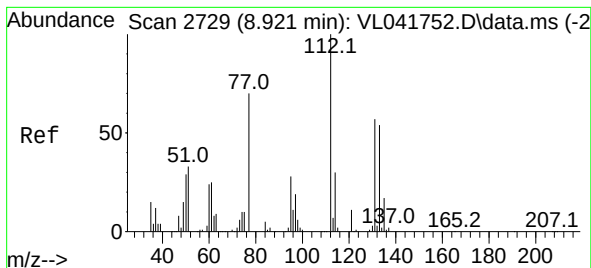
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#56
1,1,1,2-Tetrachloroethane
Concen: 10.027 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

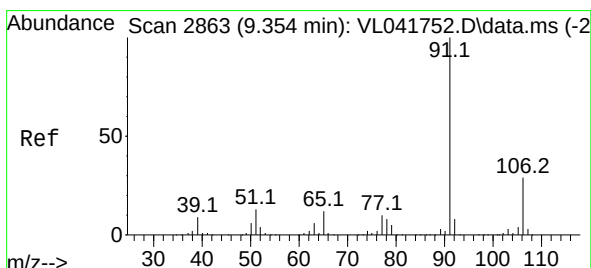
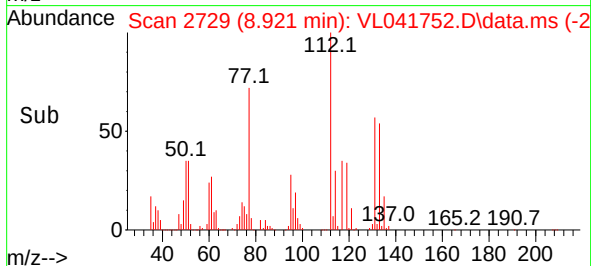
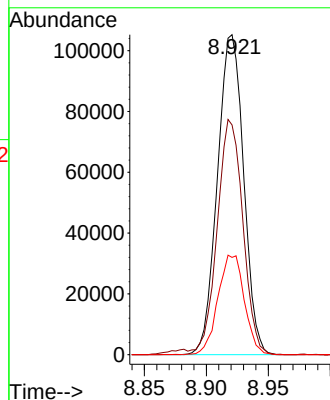
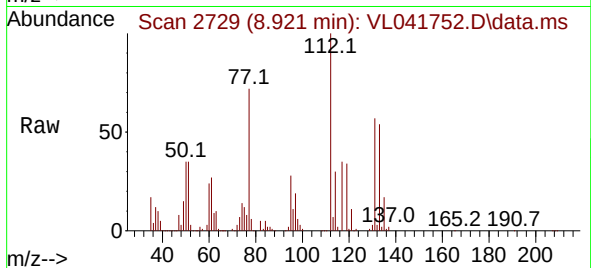
114 30.4 27.4 33.4

Manual Integrations

APPROVED

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

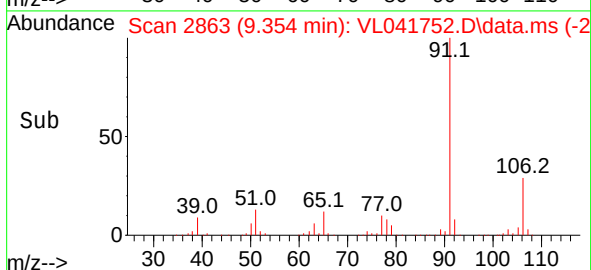
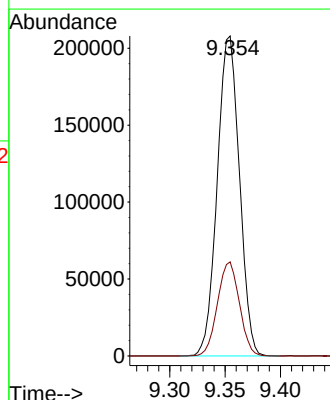
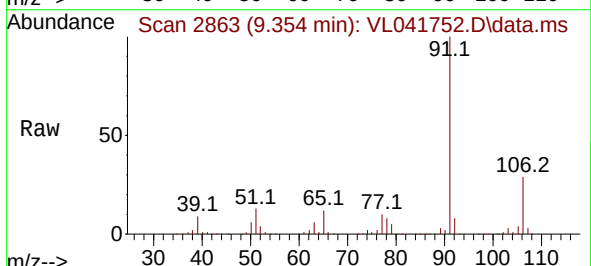
Acq: 16 Dec 2024 13:30

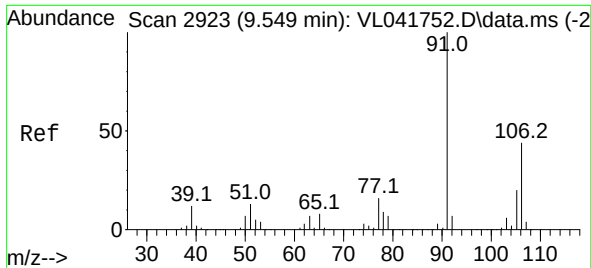
Tgt Ion: 91 Resp: 289734

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

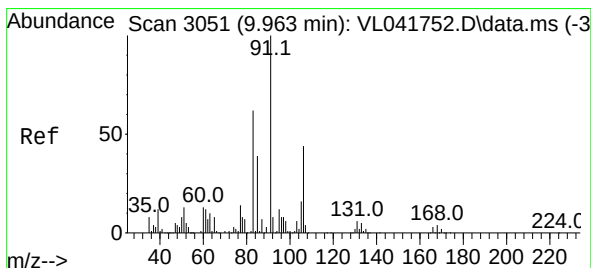
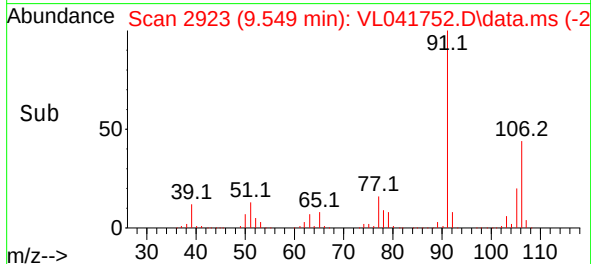
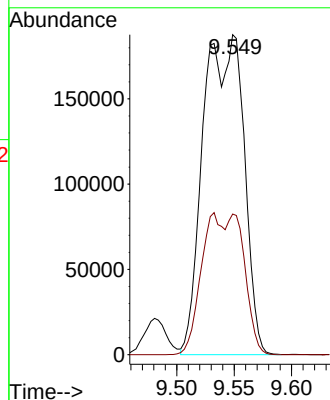
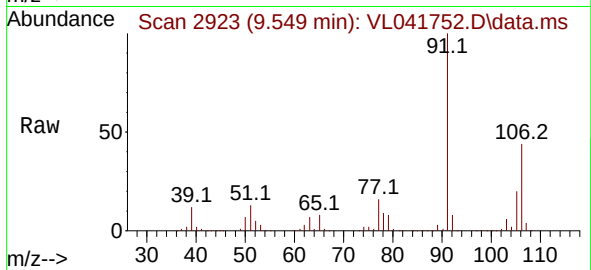
106 0.0 0.0 0.0

Manual Integrations

APPROVED

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

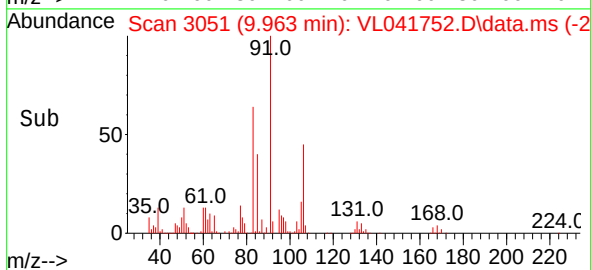
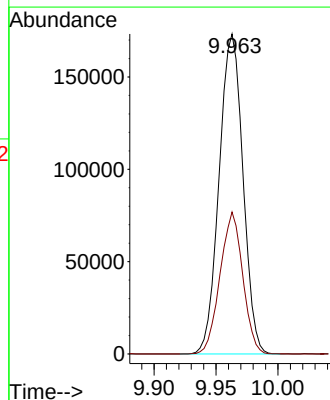
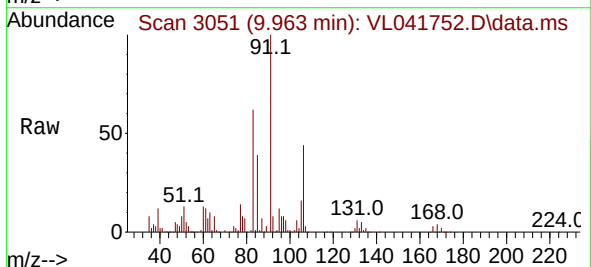
Acq: 16 Dec 2024 13:30

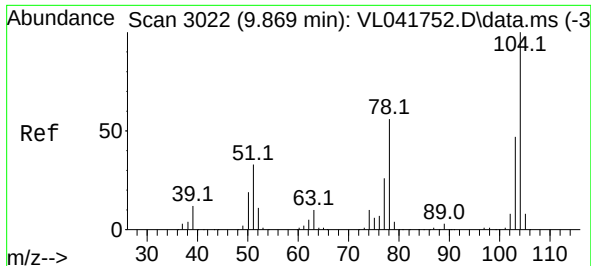
Tgt Ion: 91 Resp: 232101

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4





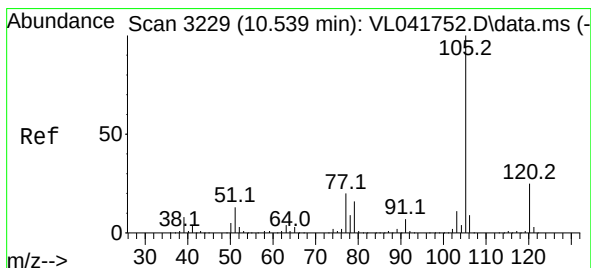
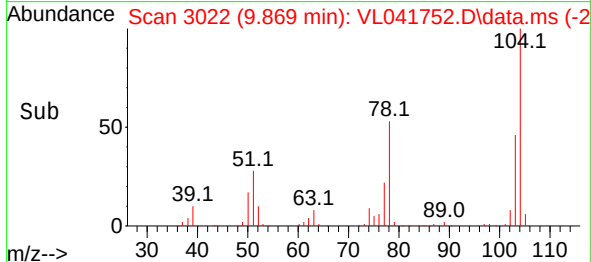
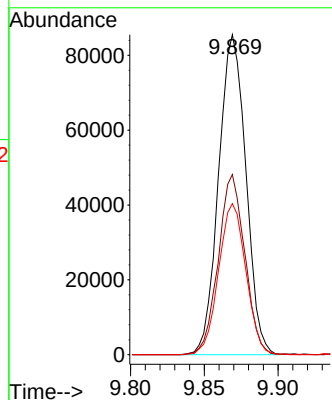
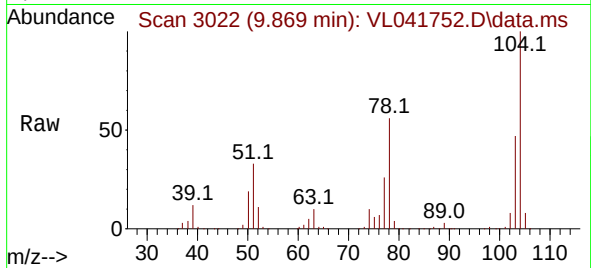
#61
Styrene
Concen: 10.733 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_1
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

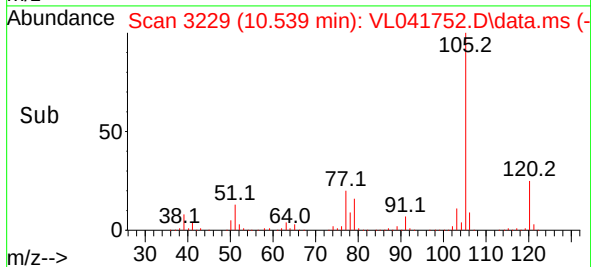
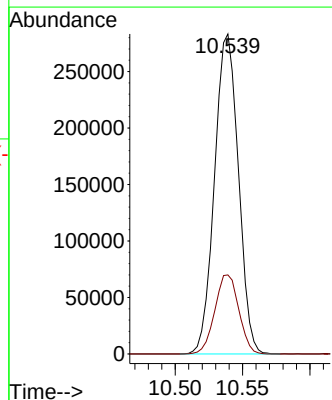
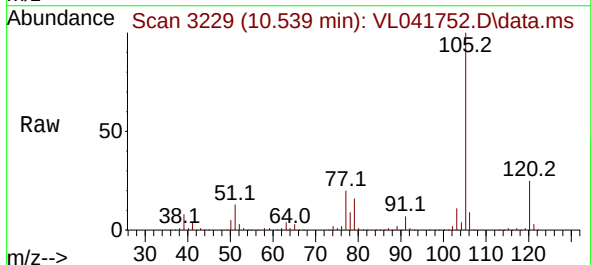
Manual Integrations
APPROVED

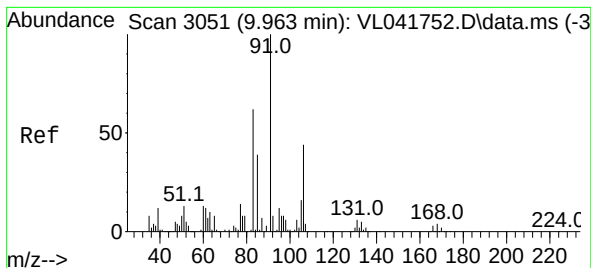
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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: 13736

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

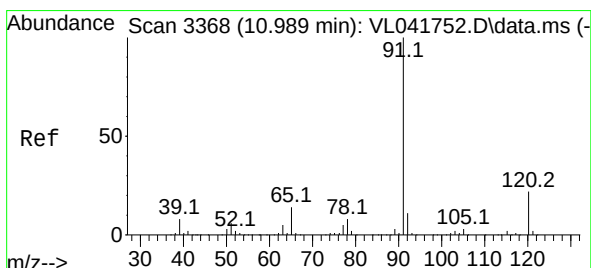
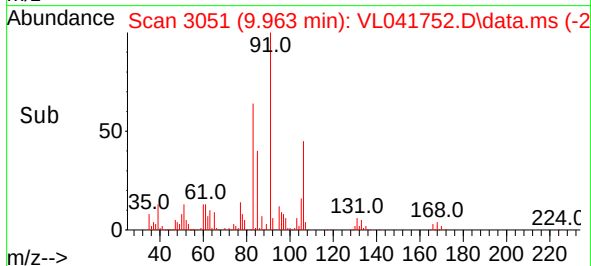
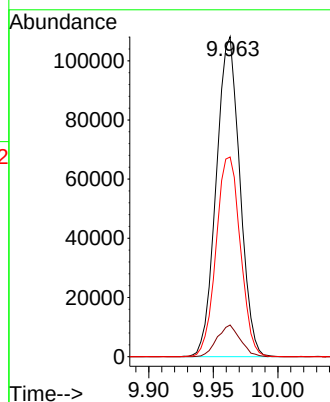
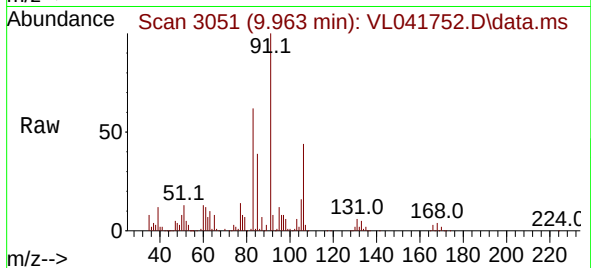
85 64.1 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#64

n-propylbenzene

Concen: 9.700 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL041752.D

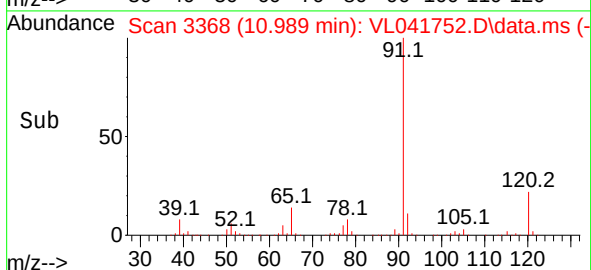
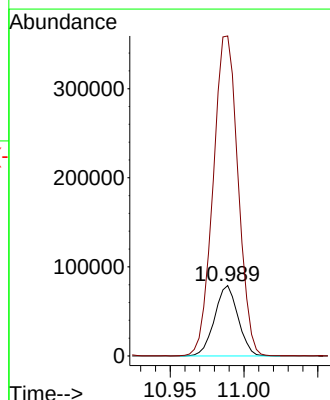
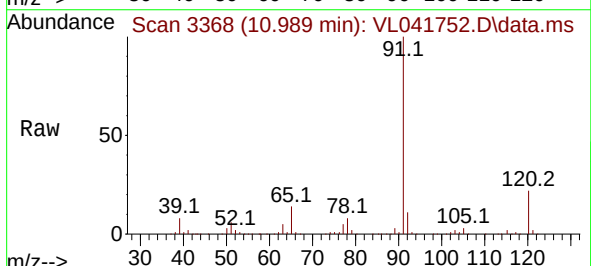
Acq: 16 Dec 2024 13:30

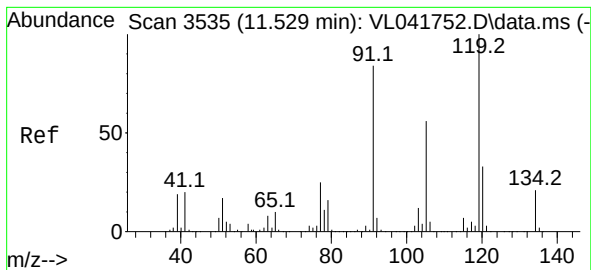
Tgt Ion:120 Resp: 87360

Ion Ratio Lower Upper

120 100

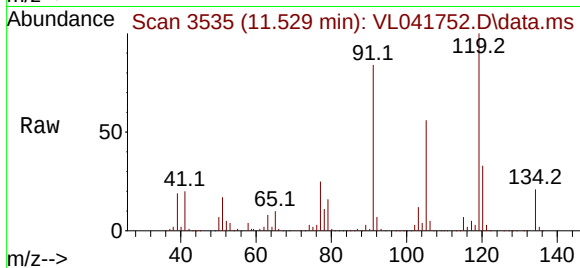
91 484.1 387.3 580.9





#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

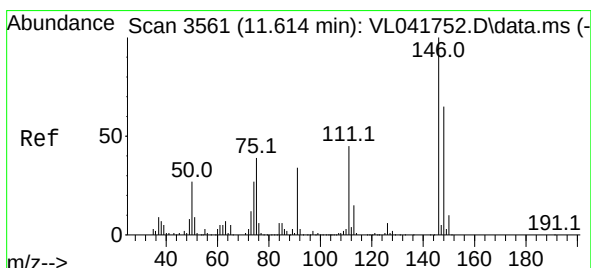
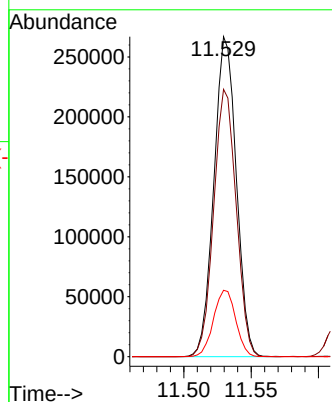
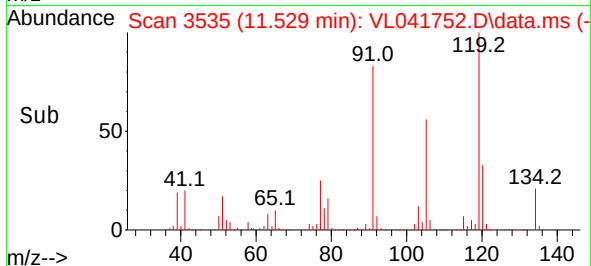
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



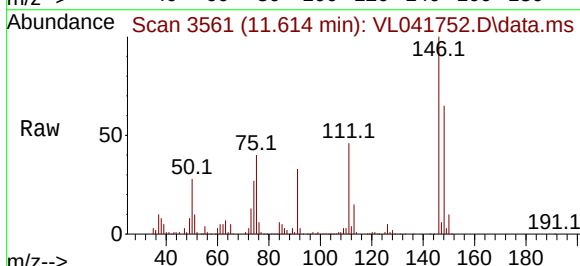
Tgt Ion:119 Resp: 309030
Ion Ratio Lower Upper
119 100
91 83.7 67.0 100.4
134 20.6 16.5 24.7

Manual Integrations
APPROVED

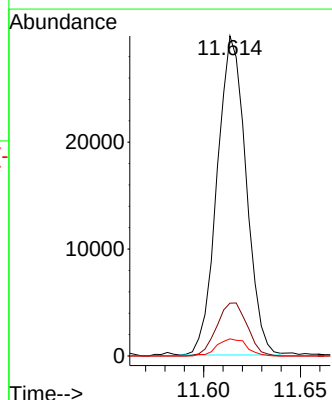
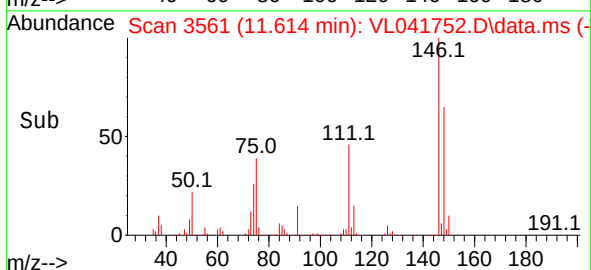
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

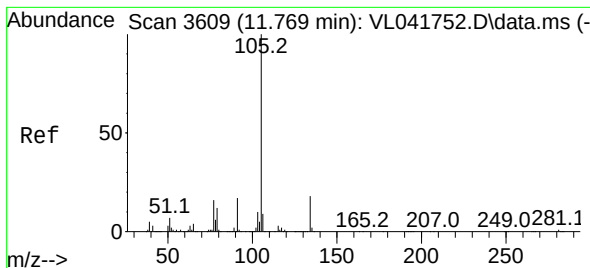


#66
Benzyl Chloride
Concen: 10.954 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



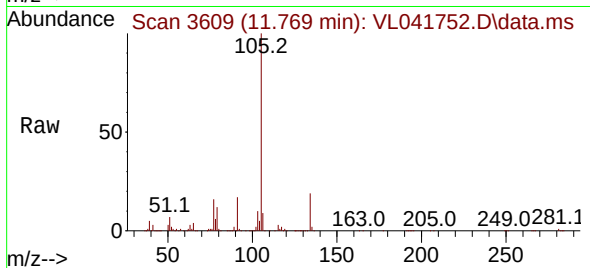
Tgt Ion: 91 Resp: 31039
Ion Ratio Lower Upper
91 100
126 17.4 13.9 20.9
128 5.5 4.4 6.6





#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

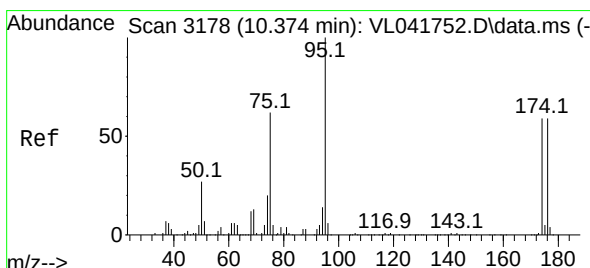
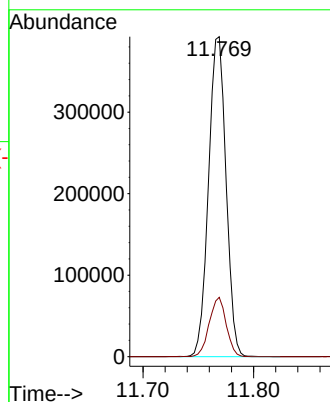
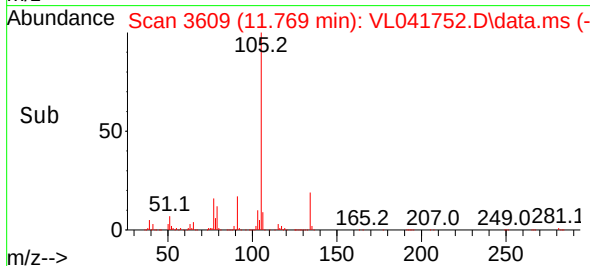
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



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

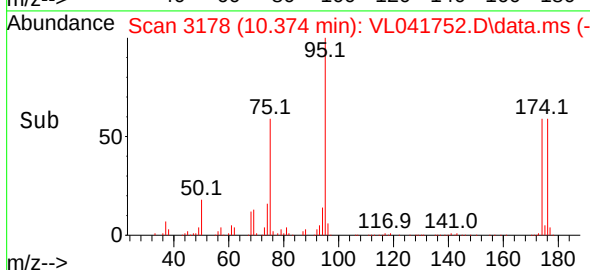
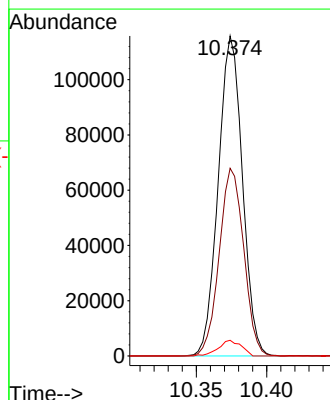
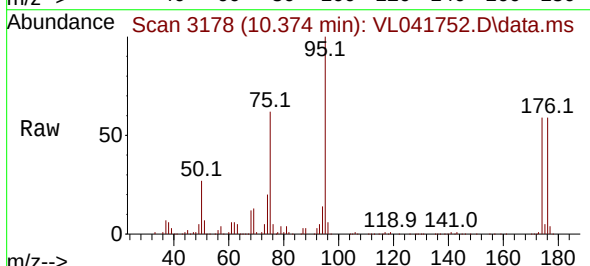
Manual Integrations
 APPROVED

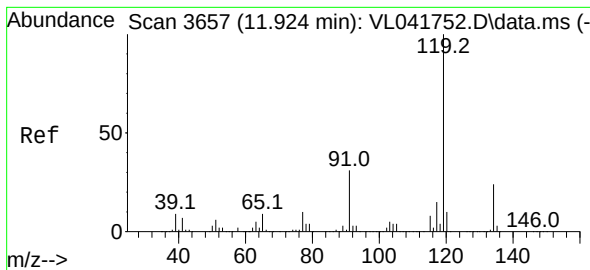
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

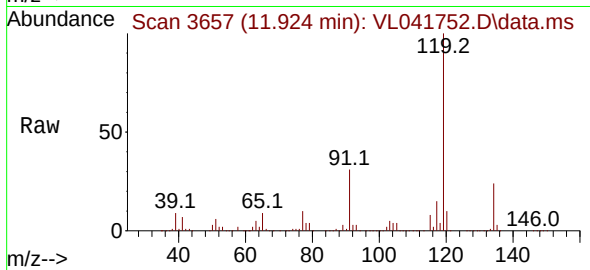
Tgt Ion: 95 Resp: 138451
 Ion Ratio Lower Upper
 95 100
 174 59.5 47.6 71.4
 175 4.6 3.7 5.5





#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

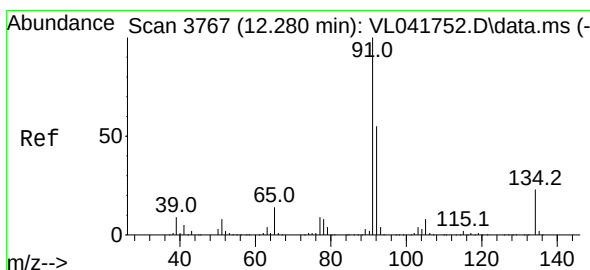
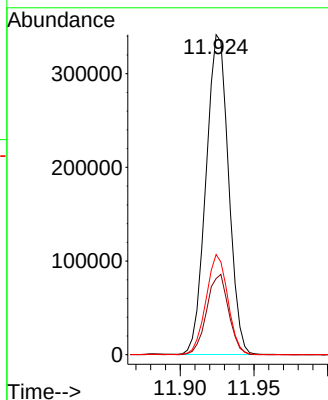
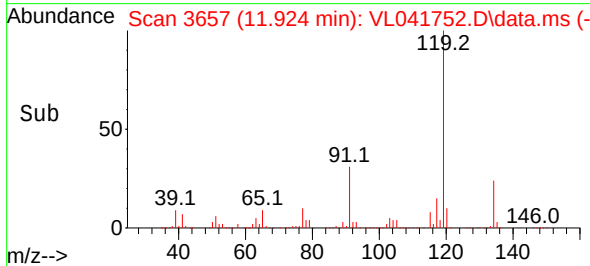
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



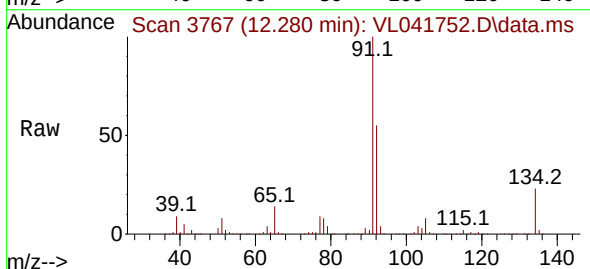
Tgt Ion:119 Resp: 363072
Ion Ratio Lower Upper
119 100
134 24.5 19.6 29.4
91 30.5 24.4 36.6

Manual Integrations
APPROVED

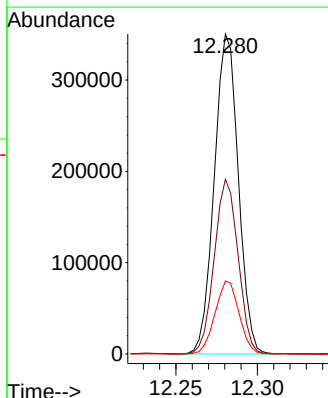
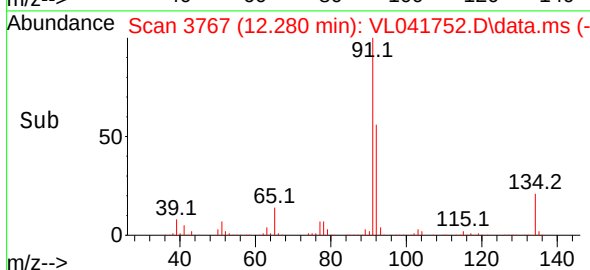
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

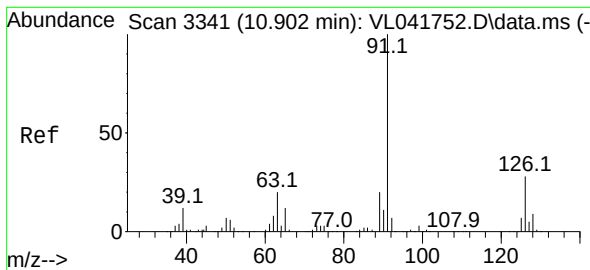


#70
n-Butylbenzene
Concen: 10.137 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30



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





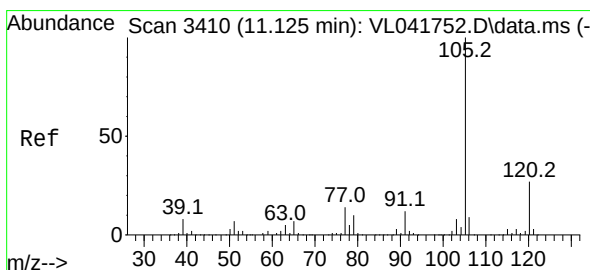
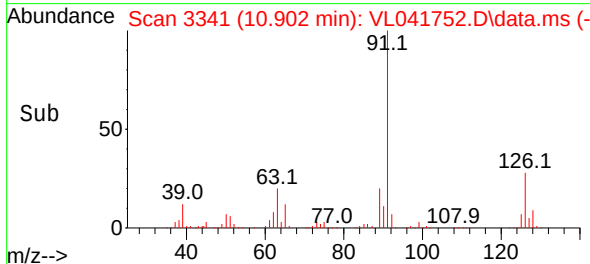
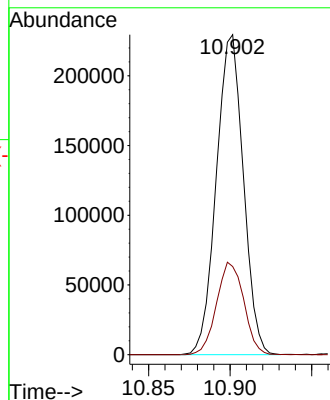
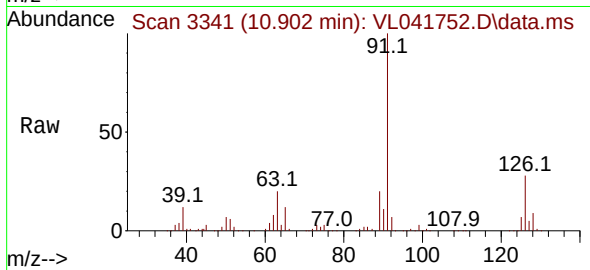
#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

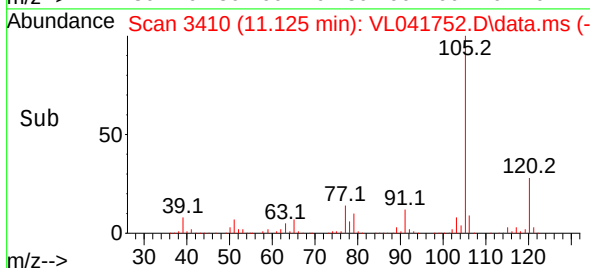
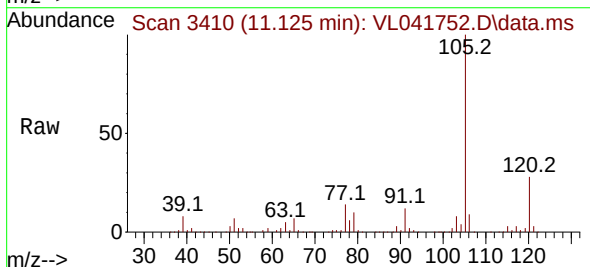
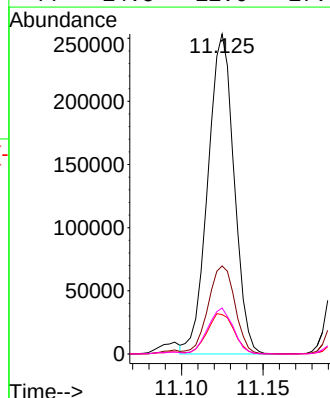
Manual Integrations
APPROVED

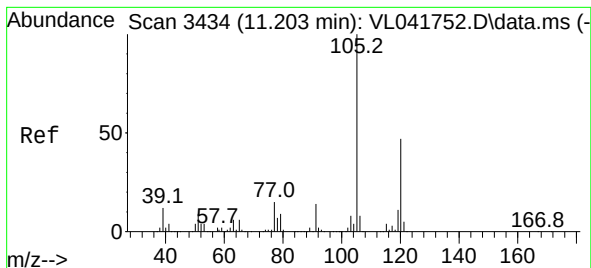
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

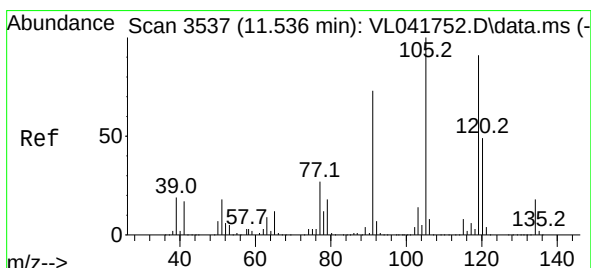
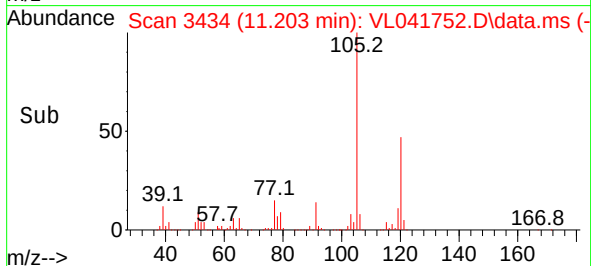
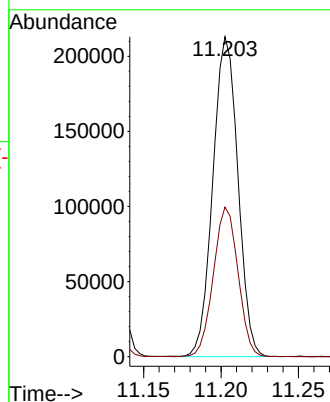
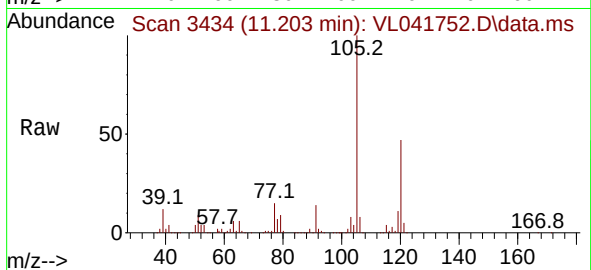
120 46.8 37.4 56.2

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

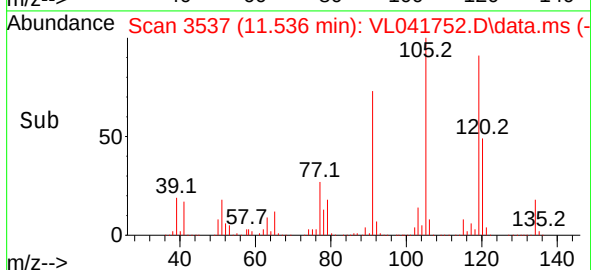
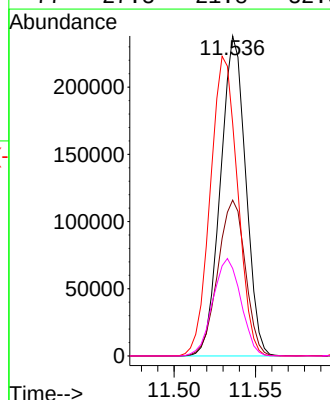
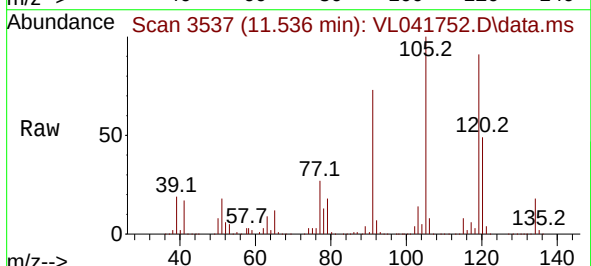
Ion Ratio Lower Upper

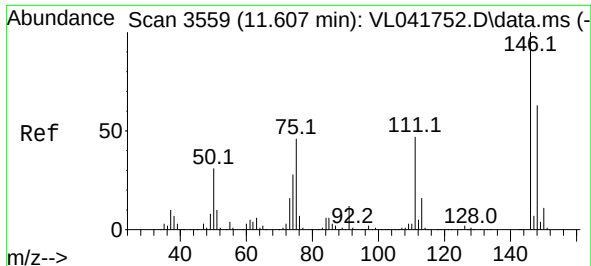
105 100

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 :

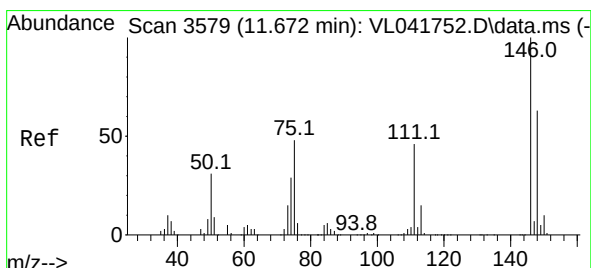
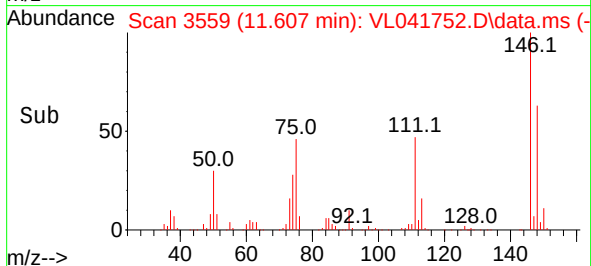
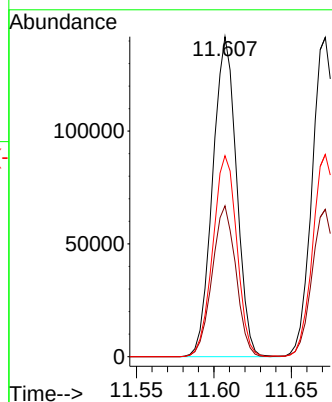
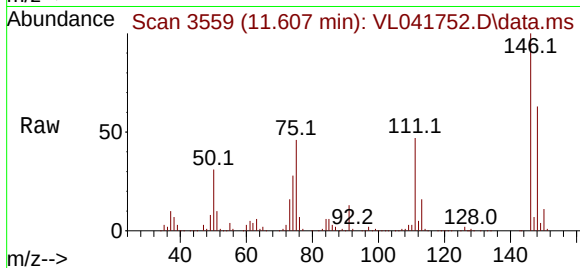
VSTDICCC010

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

APPROVED

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



#76

1,4-Dichlorobenzene

Concen: 9.671 ppbv

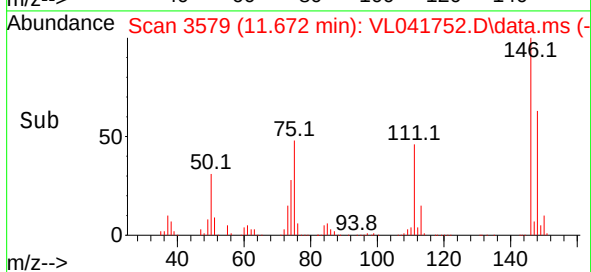
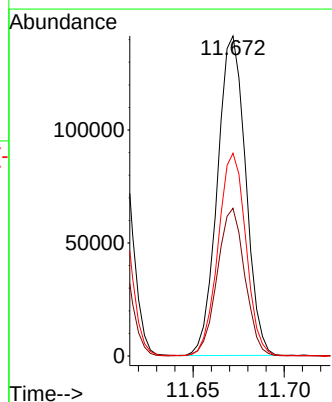
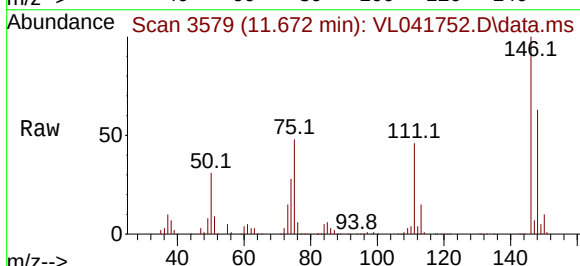
RT: 11.672 min Scan# 3579

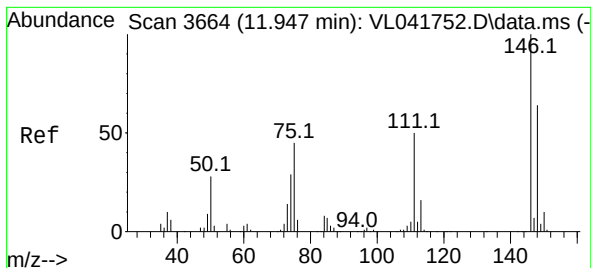
Delta R.T. 0.000 min

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

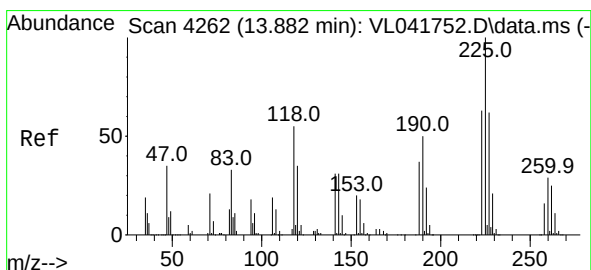
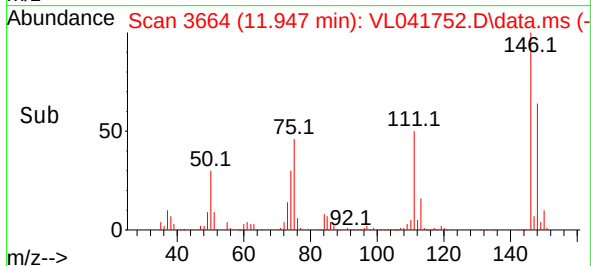
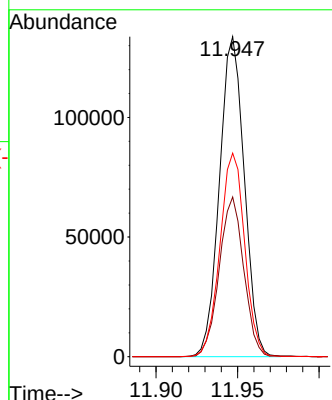
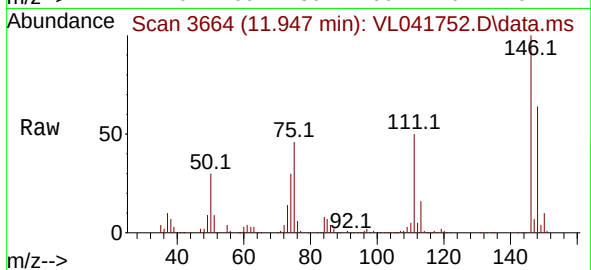
148 63.6 31.8 95.4

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

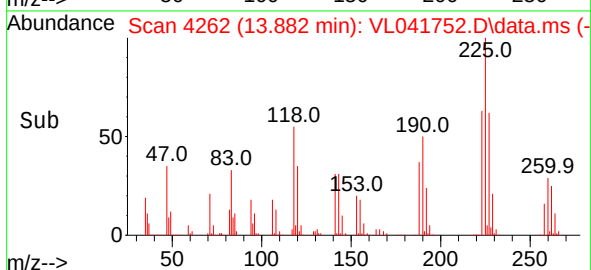
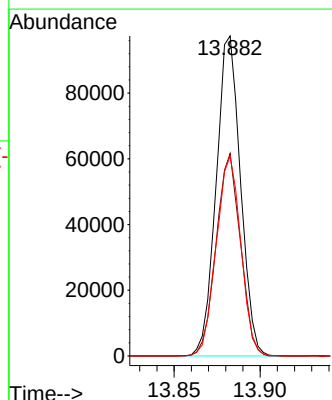
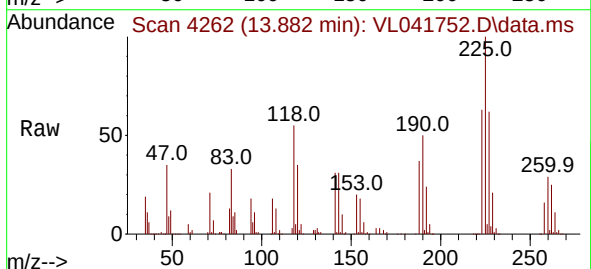
Tgt Ion:225 Resp: 95751

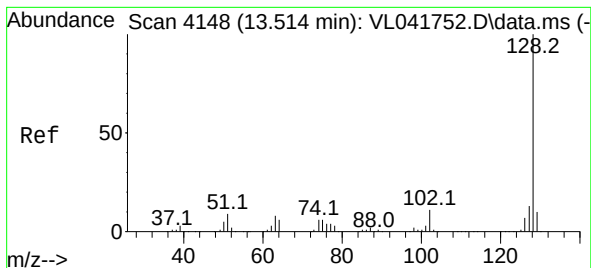
Ion Ratio Lower Upper

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

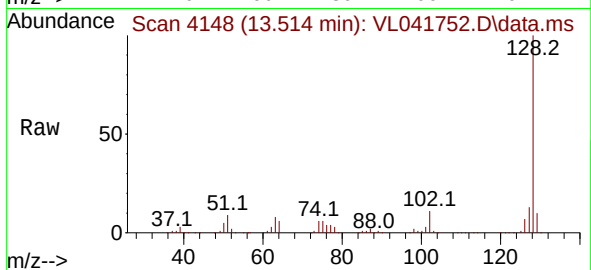
Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



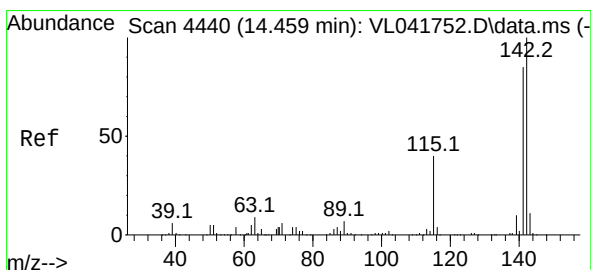
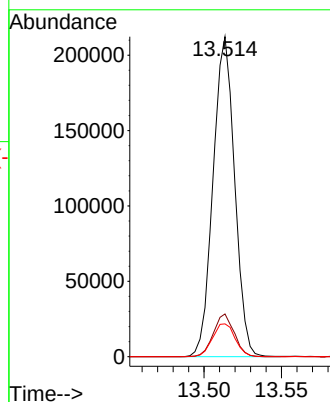
Tgt Ion:128 Resp: 20551

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.7	16.1
129	10.3	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: 19.755 ppbv

RT: 14.459 min Scan# 4440

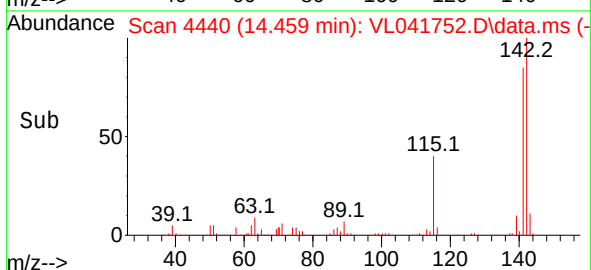
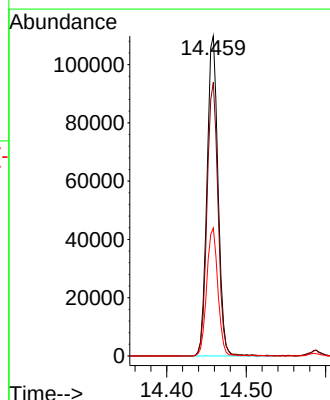
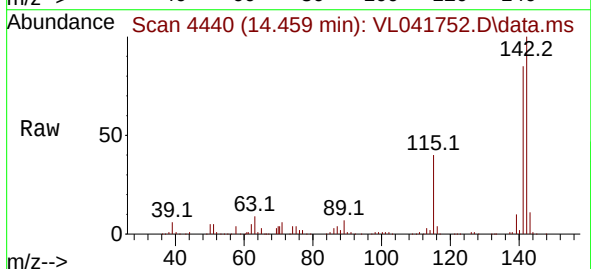
Delta R.T. 0.000 min

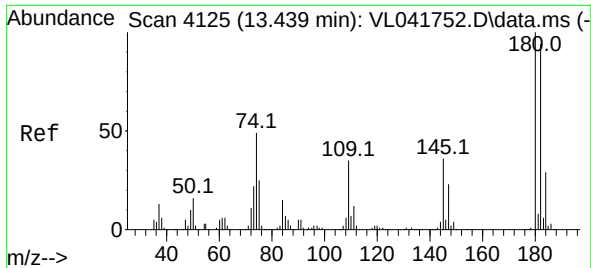
Lab File: VL041752.D

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

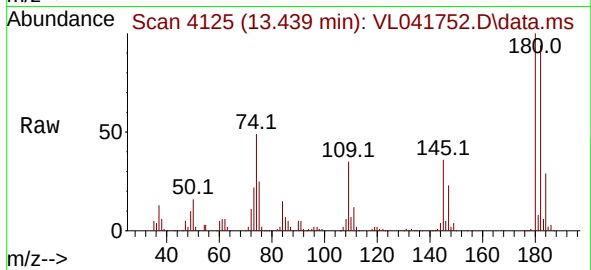
Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

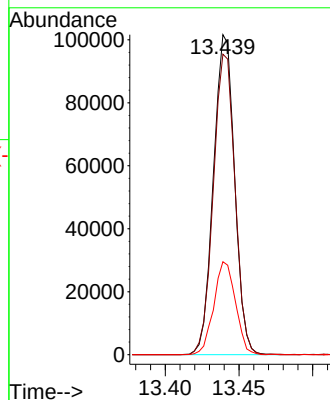
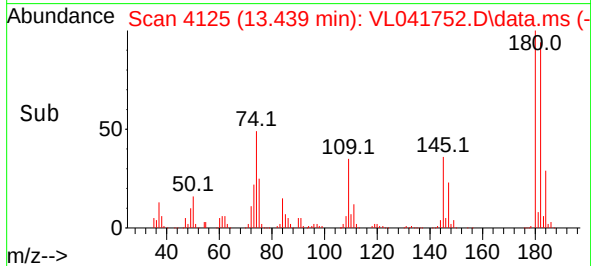


Tgt Ion:180	Resp:	10146
Ion Ratio	Lower	Upper
180	100	
182	96.3	77.0 115.6
184	29.8	23.8 35.8

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

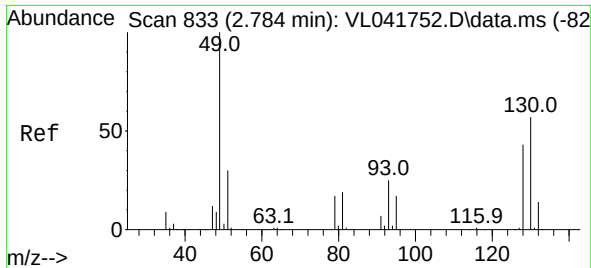
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

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	5.606	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



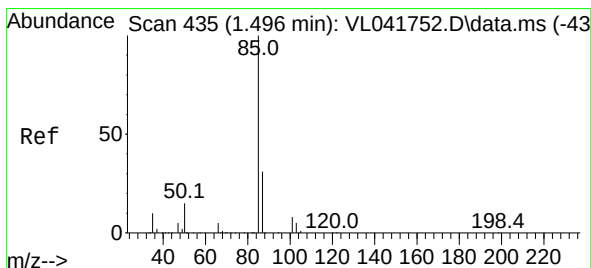
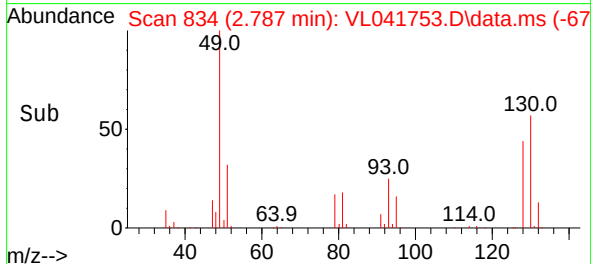
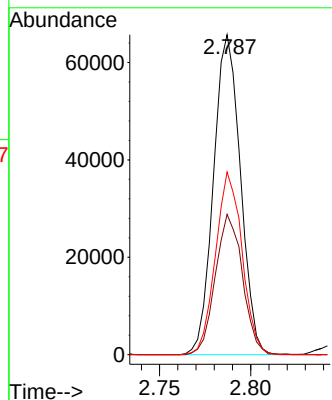
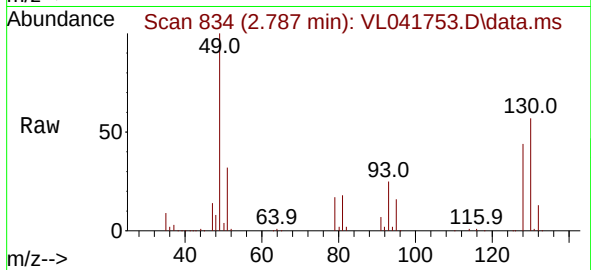
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_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

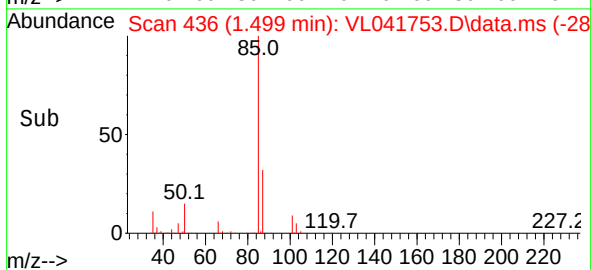
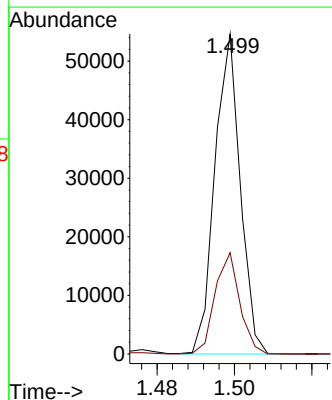
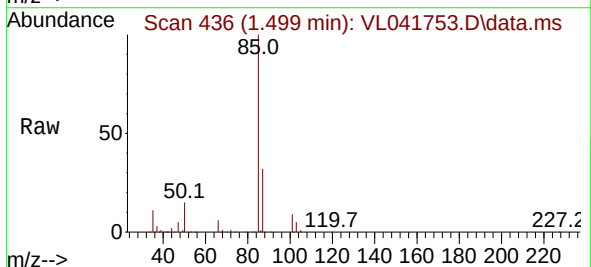
Manual Integrations
APPROVED

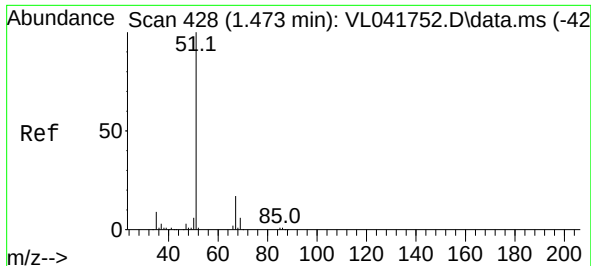
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

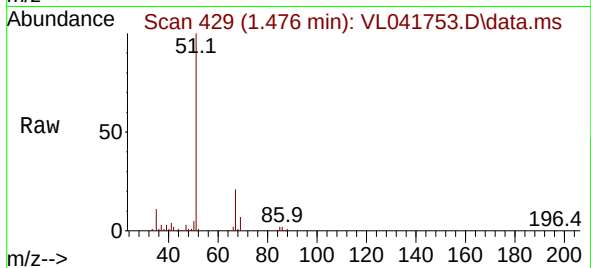
Tgt Ion: 85 Resp: 24819
Ion Ratio Lower Upper
85 100
87 31.6 24.5 36.7





#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

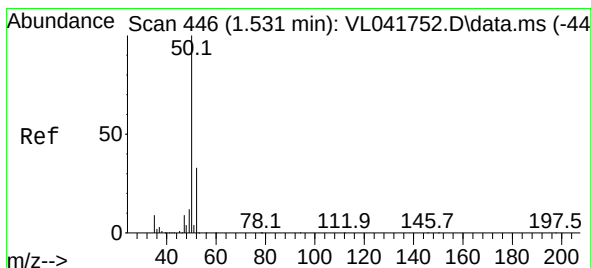
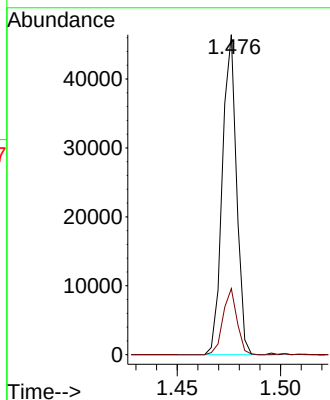
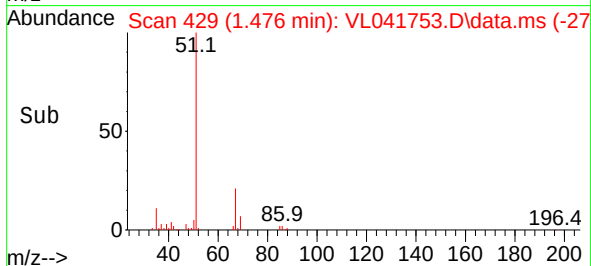
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

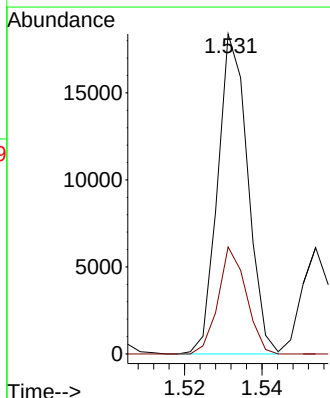
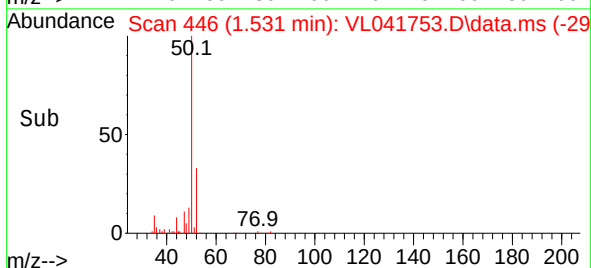
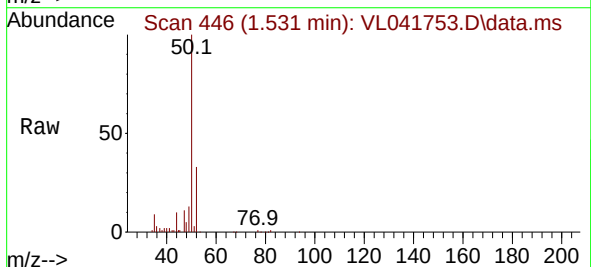
Manual Integrations
APPROVED

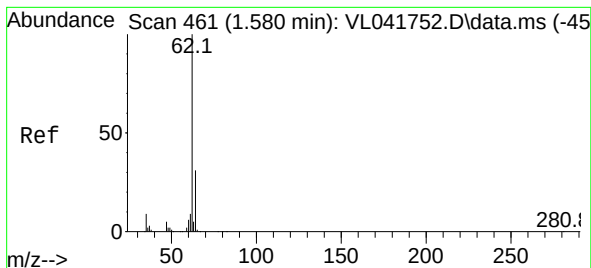
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDICC002

Tgt Ion: 62 Resp: 9300

Ion Ratio Lower Upper

62 100

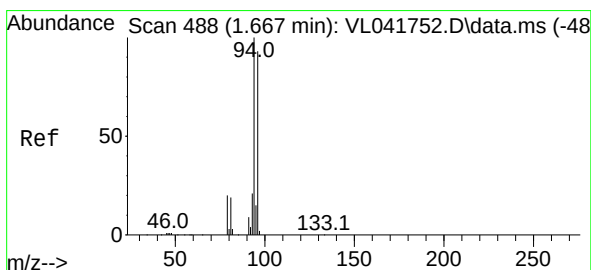
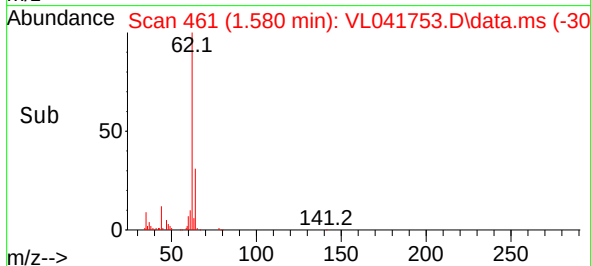
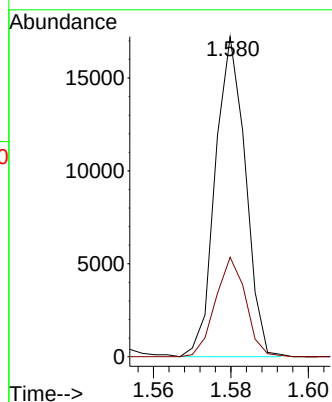
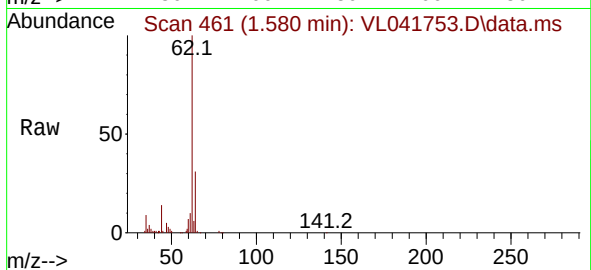
64 31.1 25.1 37.7

Manual Integrations

APPROVED

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

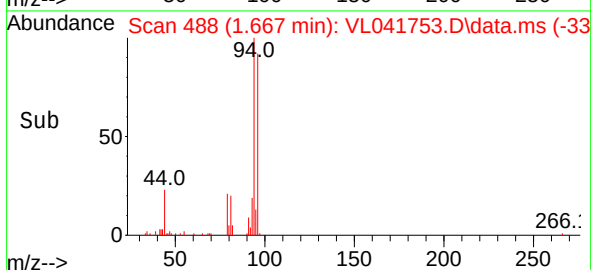
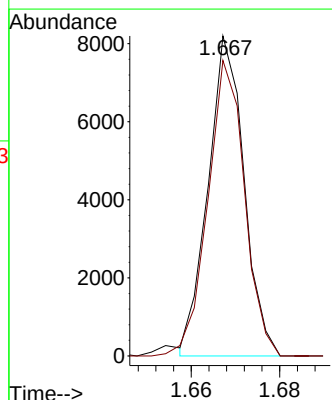
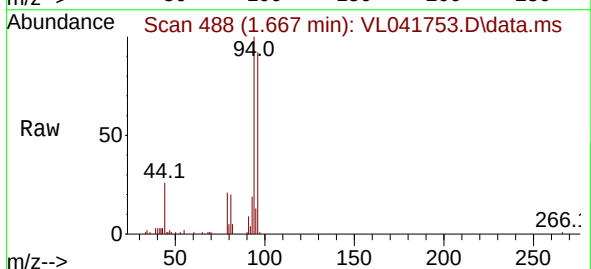
Acq: 16 Dec 2024 14:03

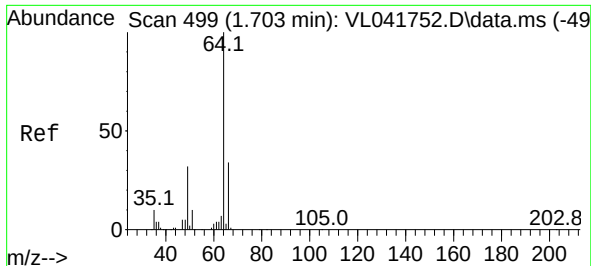
Tgt Ion: 94 Resp: 4625

Ion Ratio Lower Upper

94 100

96 92.4 74.7 112.1





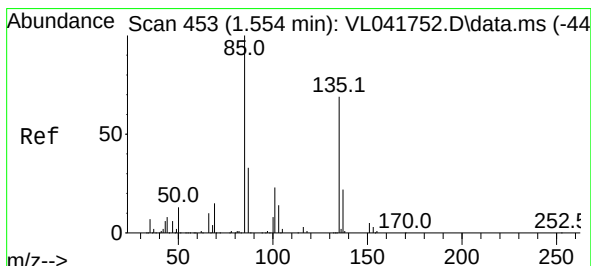
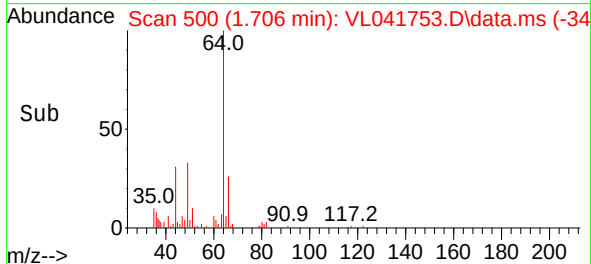
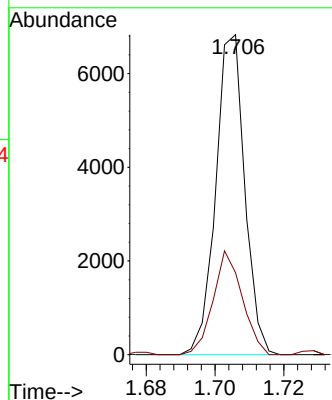
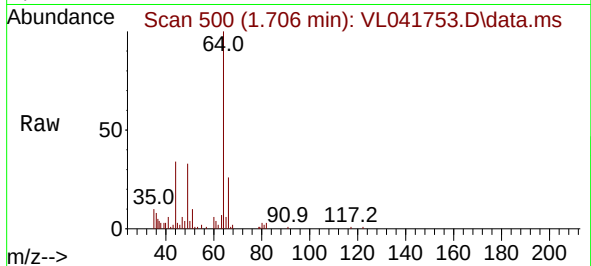
#7
Chloroethane
Concen: 2.178 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

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

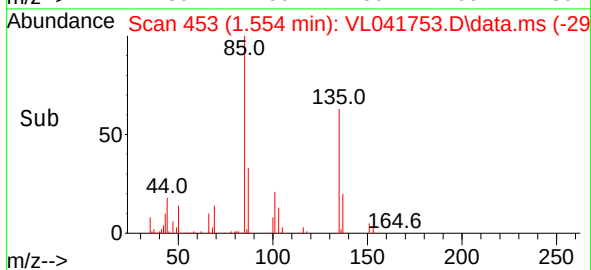
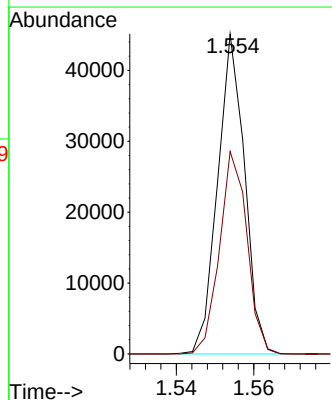
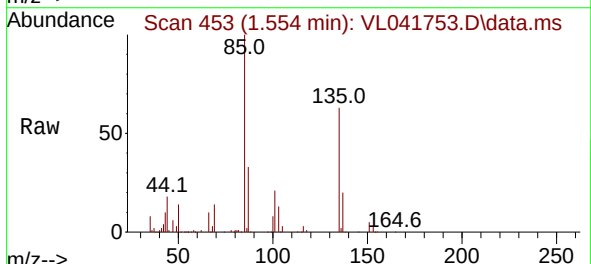
Manual Integrations
APPROVED

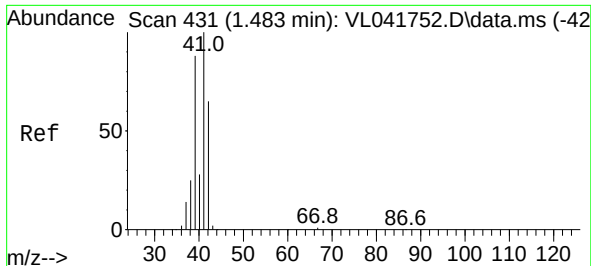
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

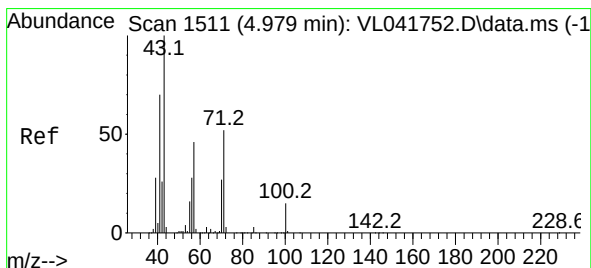
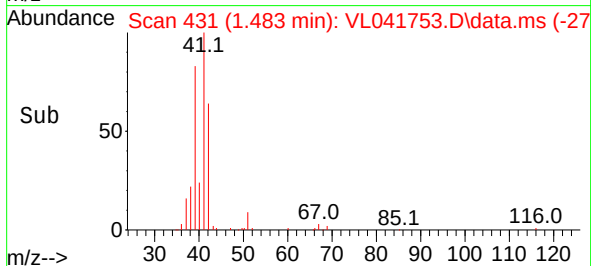
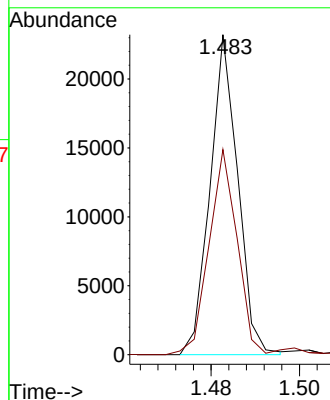
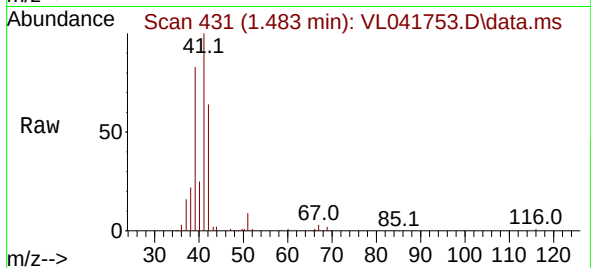
42 67.9 52.4 78.6

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

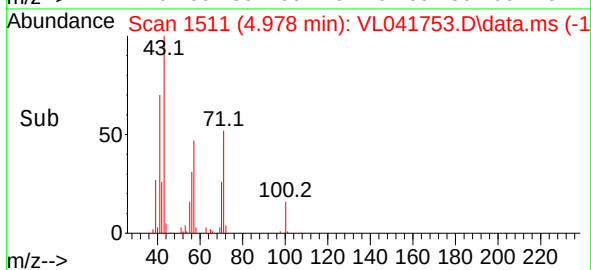
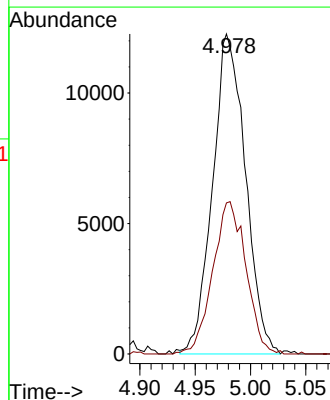
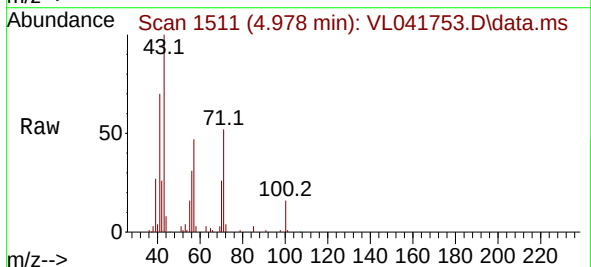
Acq: 16 Dec 2024 14:03

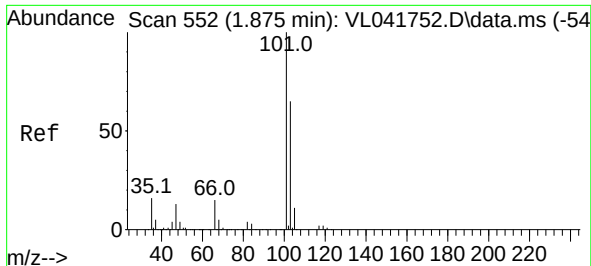
Tgt Ion: 43 Resp: 25297

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

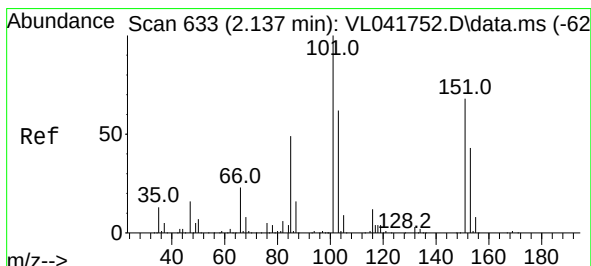
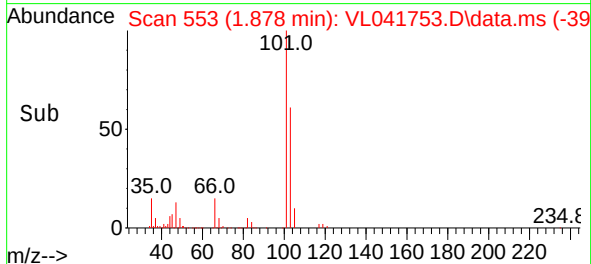
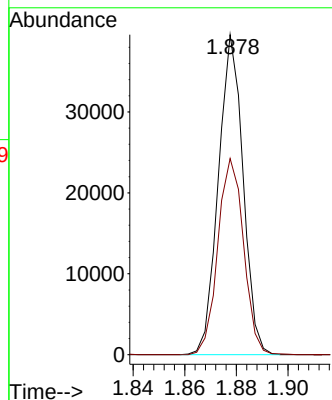
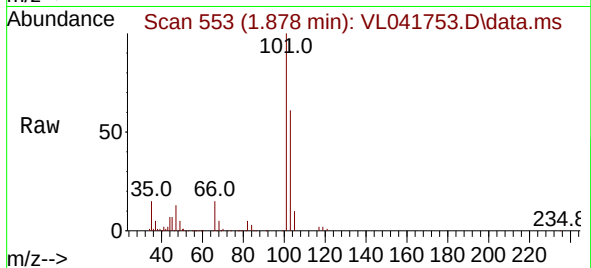
103 61.3 51.8 77.8

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

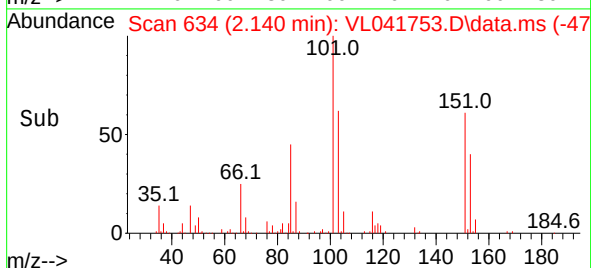
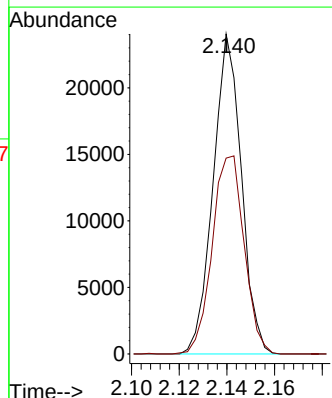
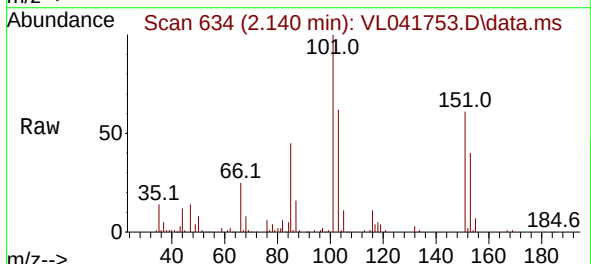
Acq: 16 Dec 2024 14:03

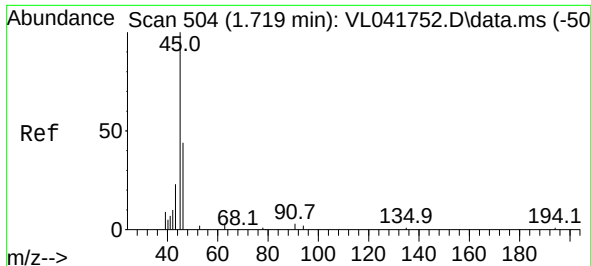
Tgt Ion:101 Resp: 19770

Ion Ratio Lower Upper

101 100

151 70.2 56.8 85.2





#13

Ethanol

Concen: 1.998 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

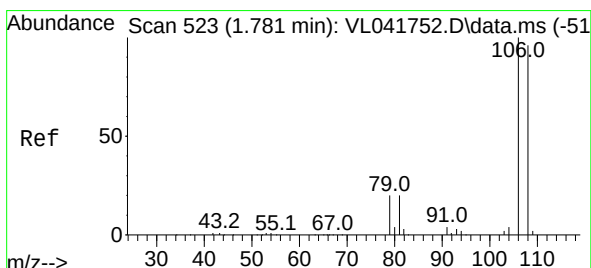
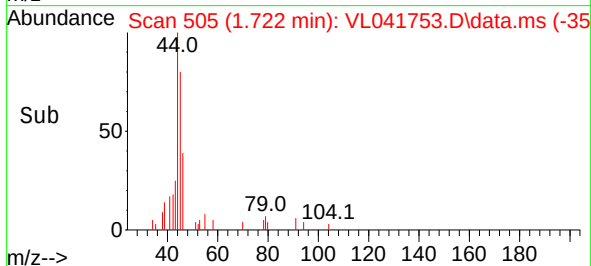
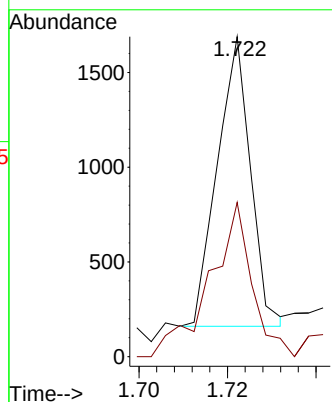
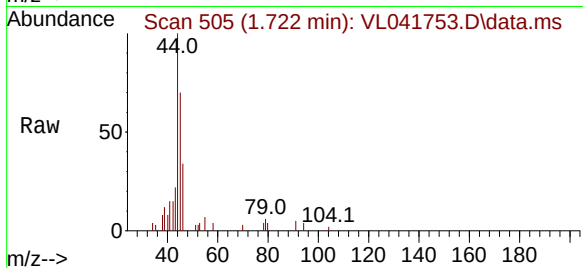
VSTDICC002

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

Manual Integrations

APPROVED

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



#14

Bromoethene

Concen: 1.994 ppbv

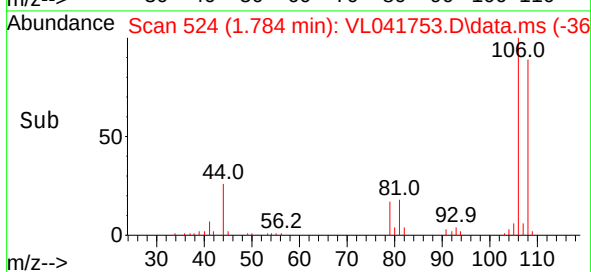
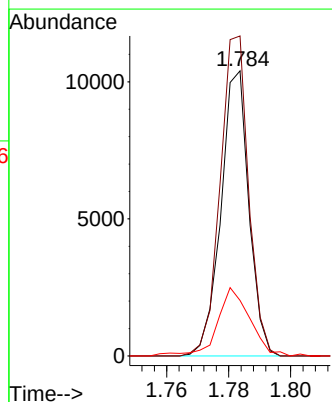
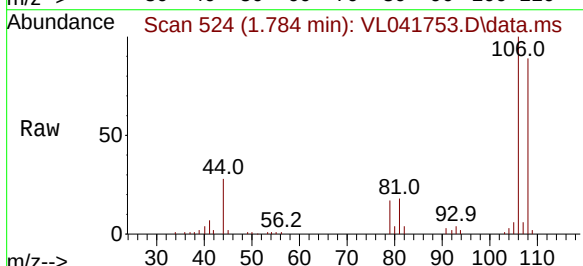
RT: 1.784 min Scan# 524

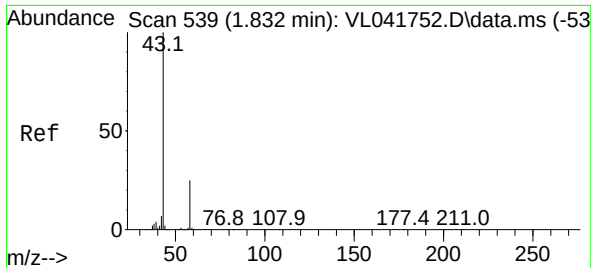
Delta R.T. 0.003 min

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

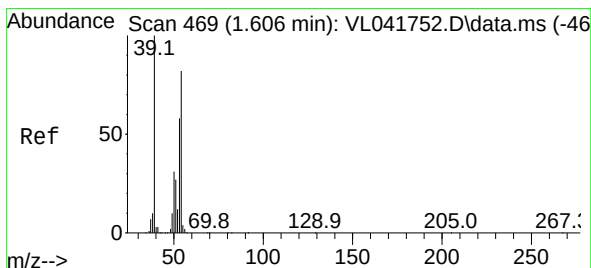
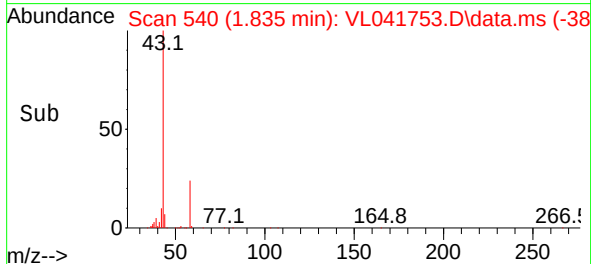
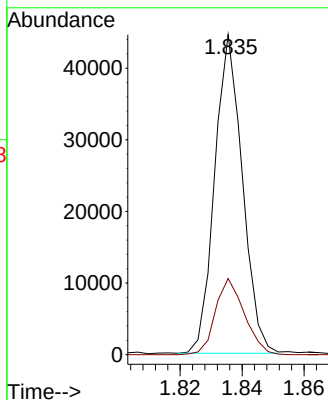
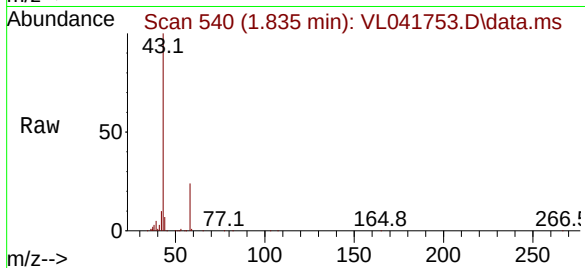
58 25.0 19.7 29.5

Manual Integrations

APPROVED

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

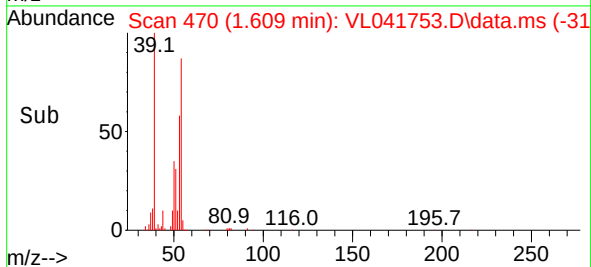
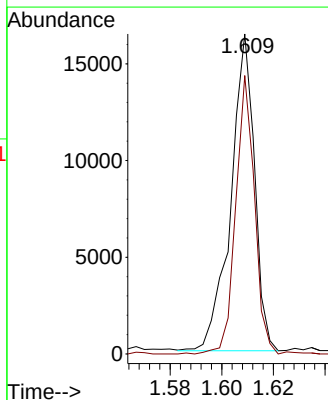
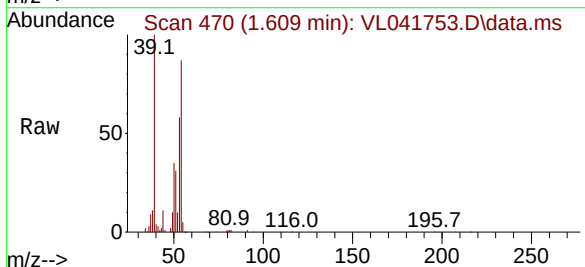
Acq: 16 Dec 2024 14:03

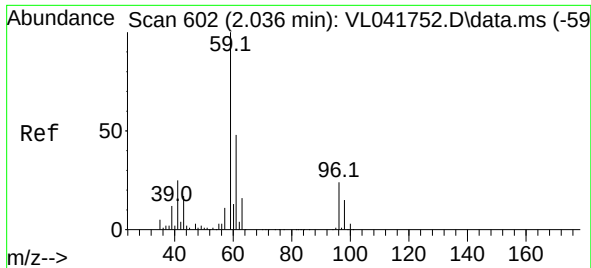
Tgt Ion: 39 Resp: 10478

Ion Ratio Lower Upper

39 100

54 70.0 58.4 87.6





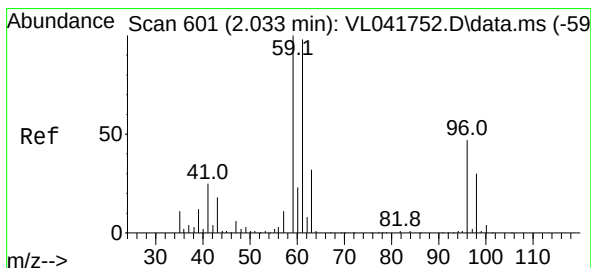
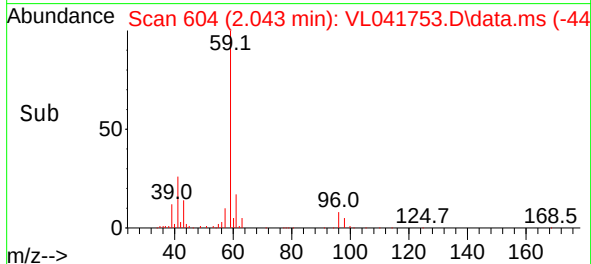
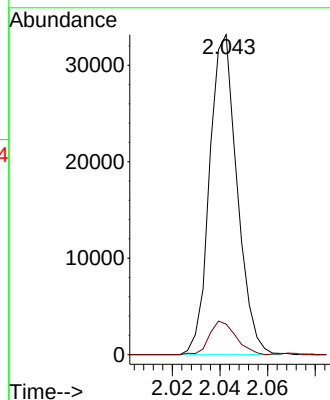
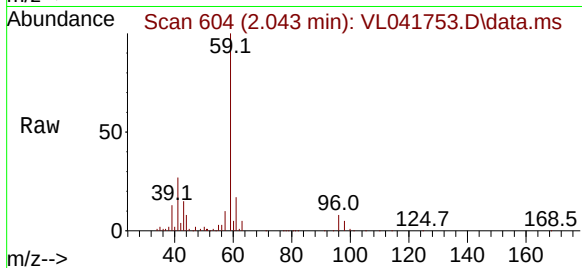
#17
tert-Butyl alcohol
Concen: 2.047 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

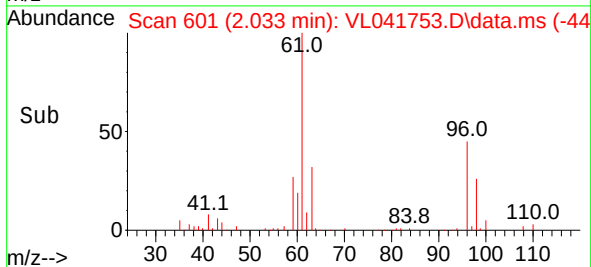
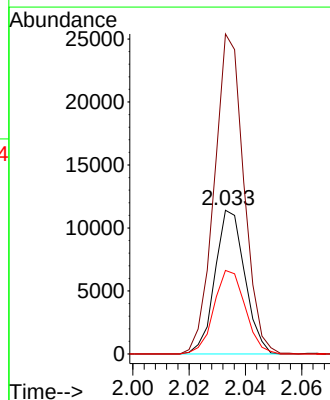
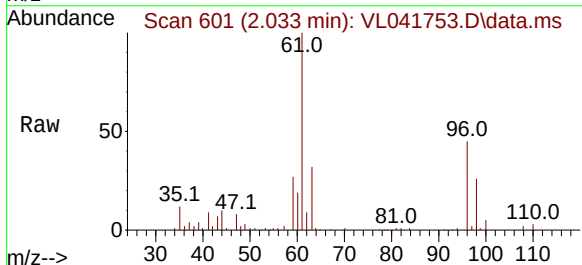
Manual Integrations
APPROVED

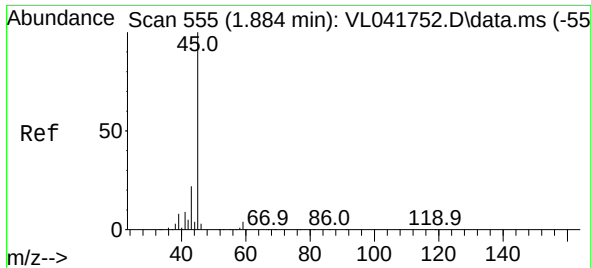
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





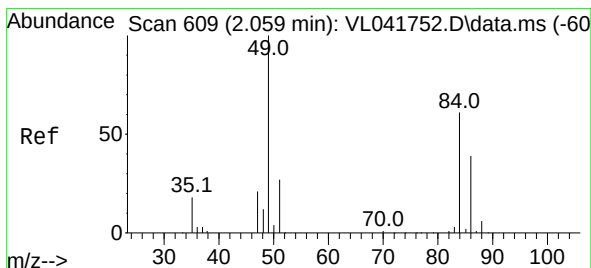
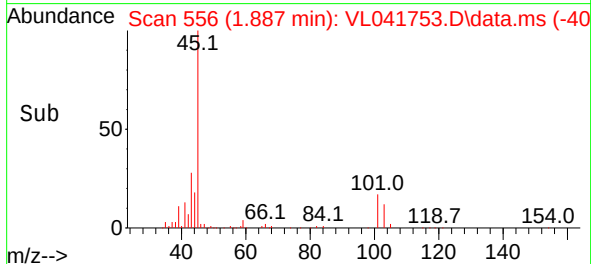
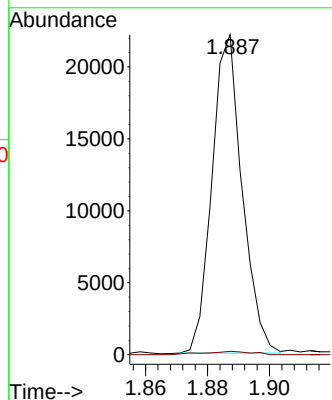
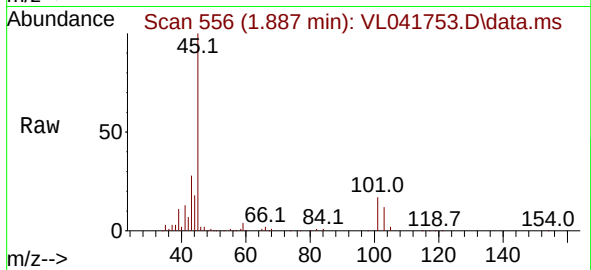
#19
Isopropyl Alcohol
Concen: 1.897 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

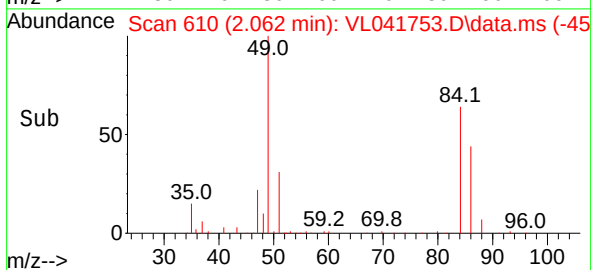
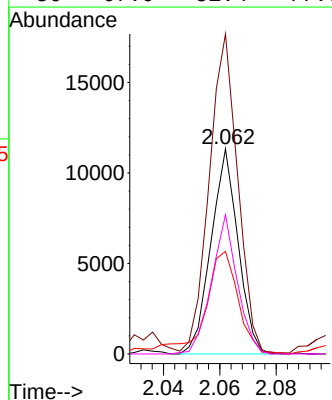
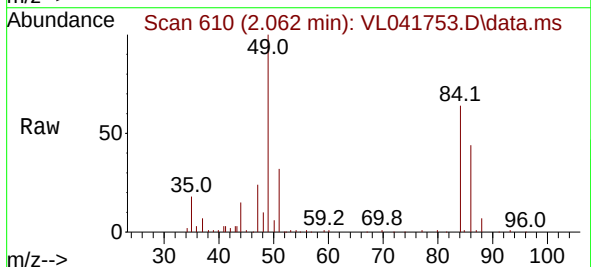
Manual Integrations
APPROVED

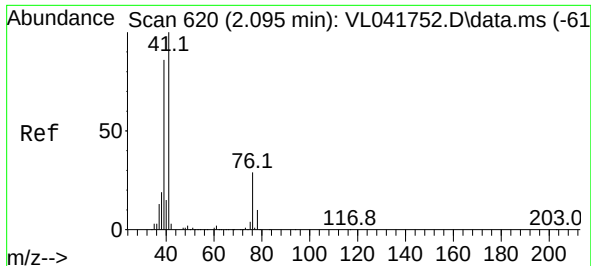
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

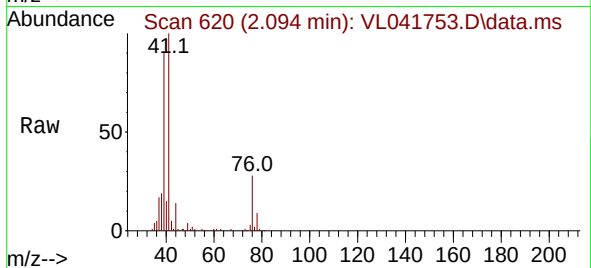
Tgt Ion: 84 Resp: 7586
Ion Ratio Lower Upper
84 100
49 155.5 132.6 198.8
51 49.5 37.6 56.4
86 67.9 51.4 77.0





#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

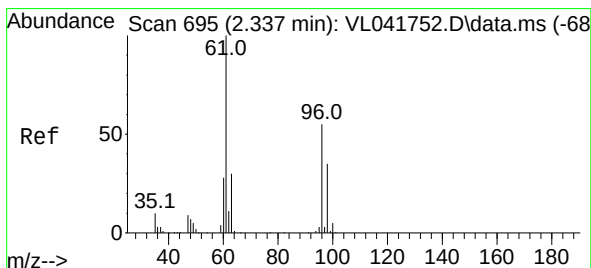
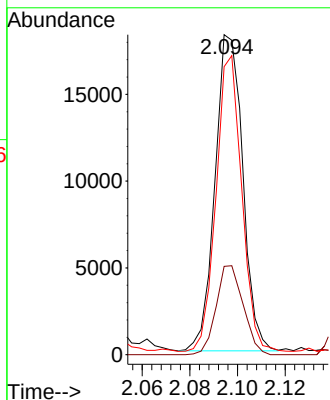
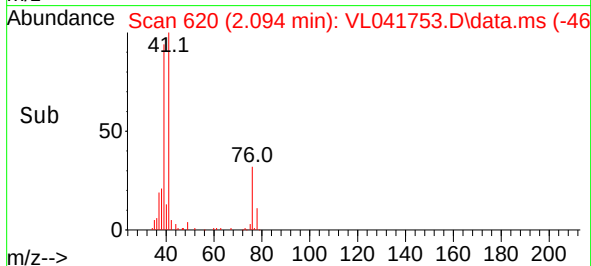
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



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

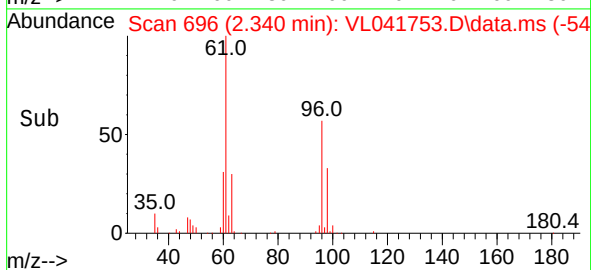
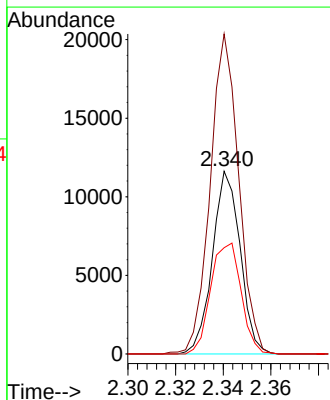
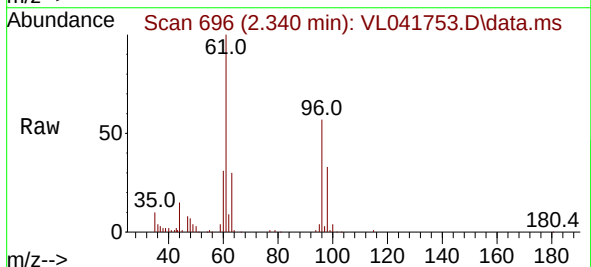
Manual Integrations
APPROVED

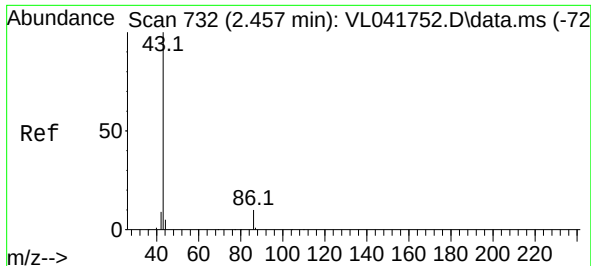
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

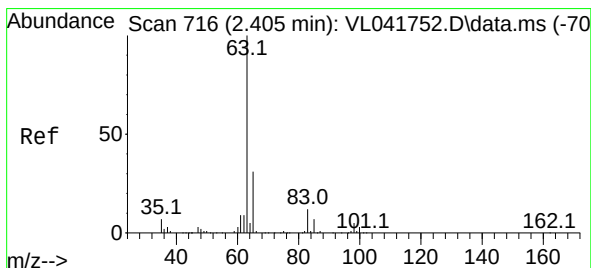
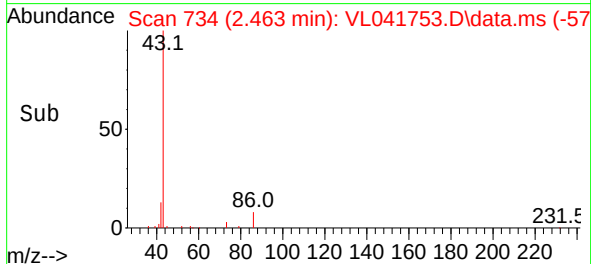
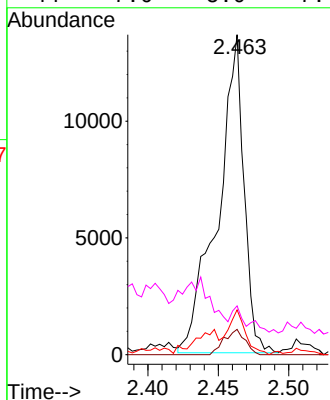
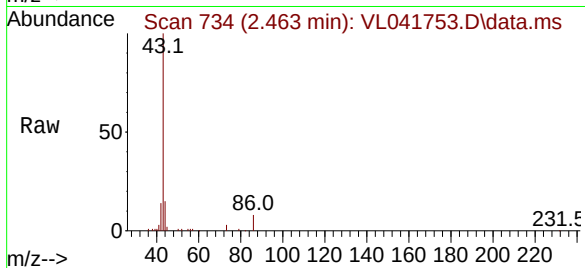
VSTDICC002

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

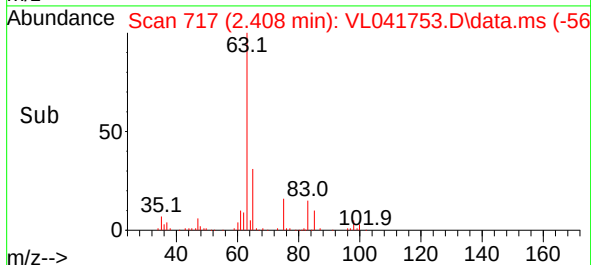
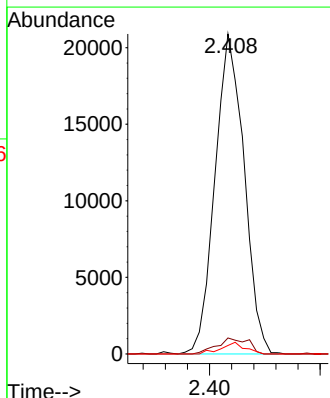
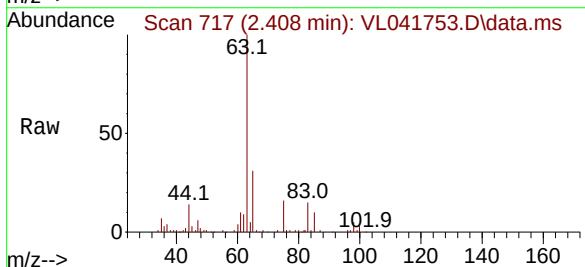
APPROVED

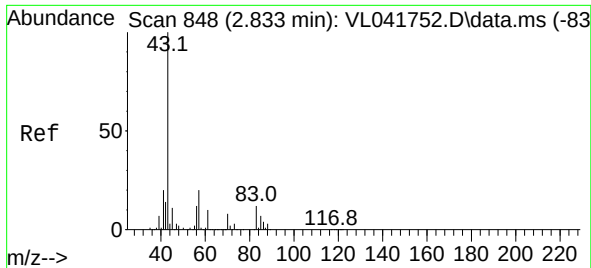
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

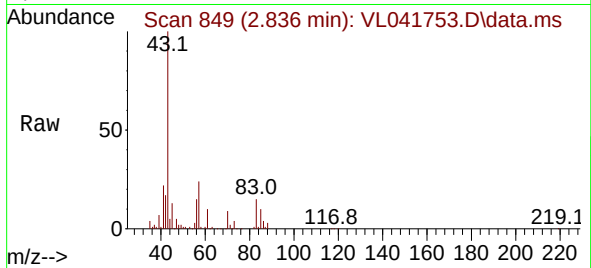
Tgt Ion: 63 Resp: 19070
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.3 6.8
 100 2.7 1.4 4.2





#25
Ethyl Acetate
Concen: 2.059 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

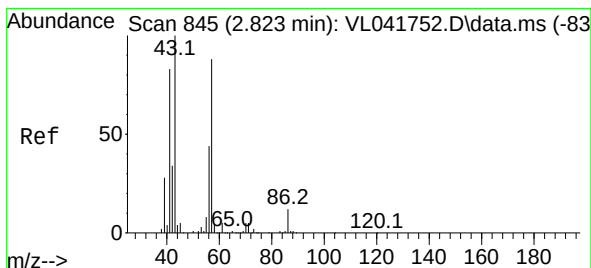
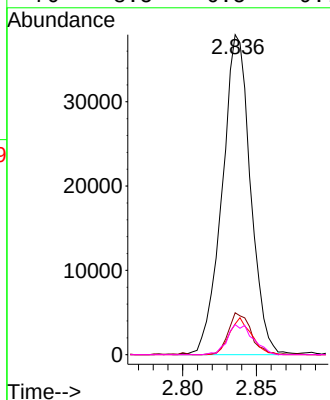
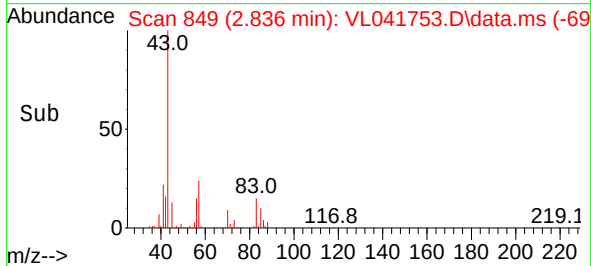
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

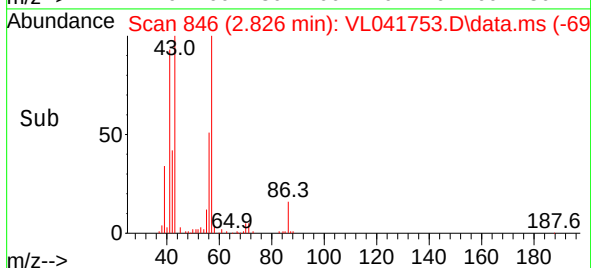
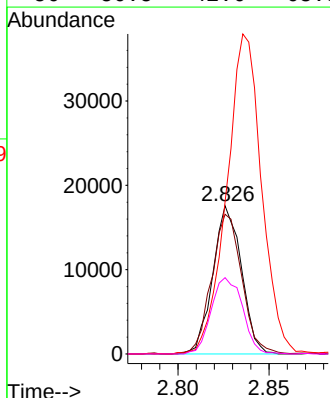
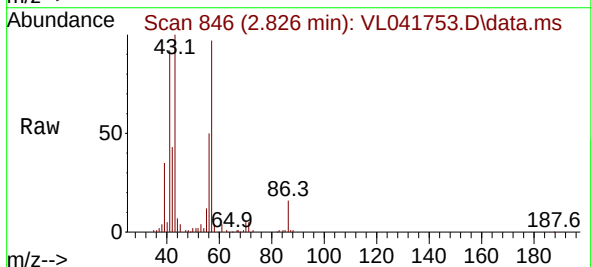
Manual Integrations
APPROVED

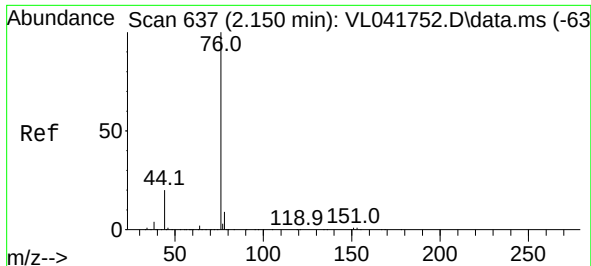
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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# 61

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

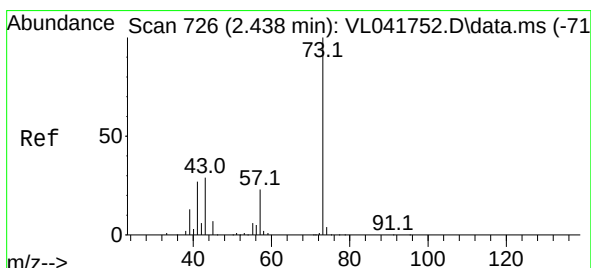
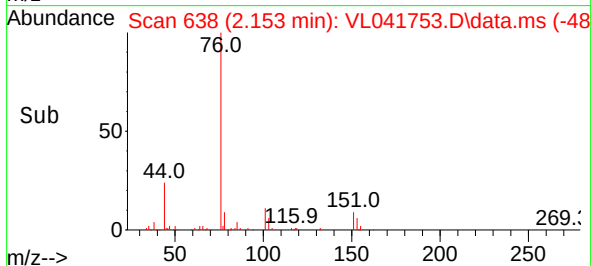
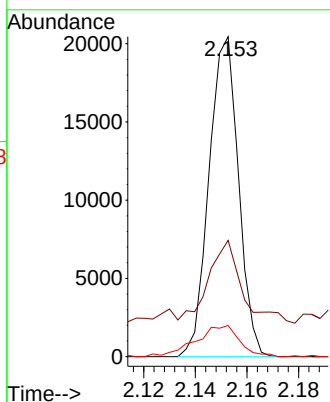
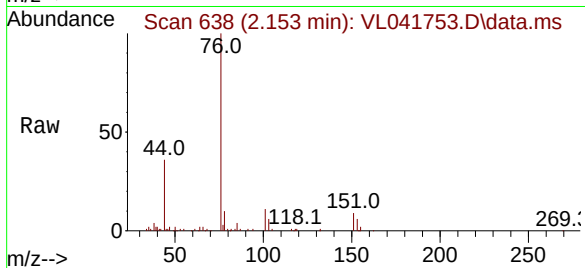
VSTDICC002

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

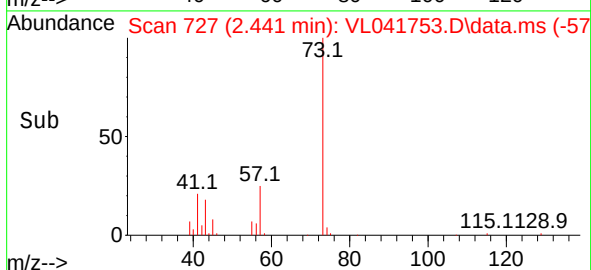
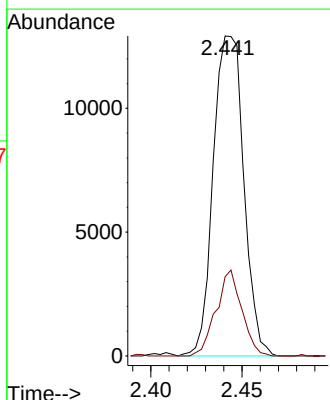
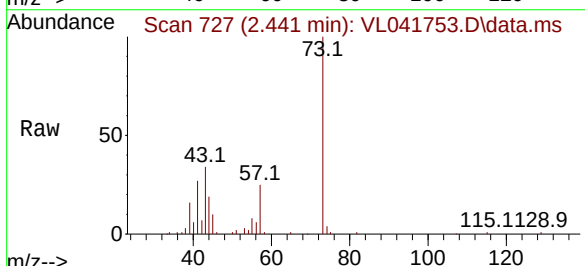
RT: 2.441 min Scan# 727

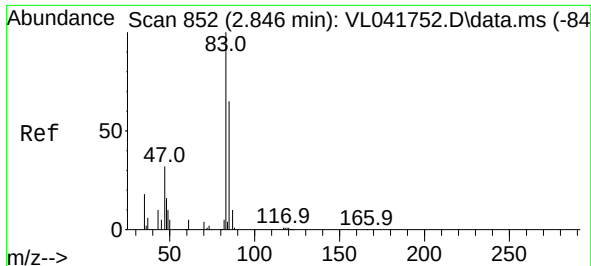
Delta R.T. 0.003 min

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# 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: 2884

Ion Ratio Lower Upper

83 100

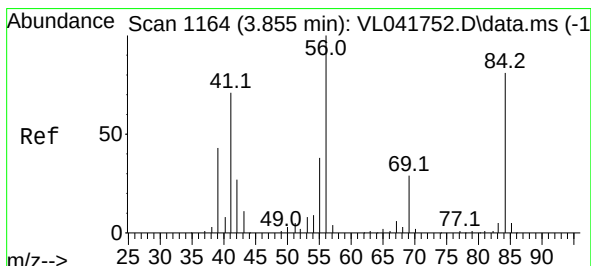
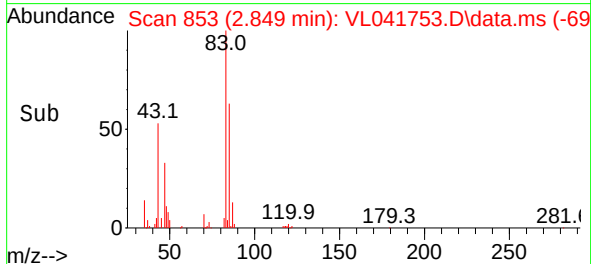
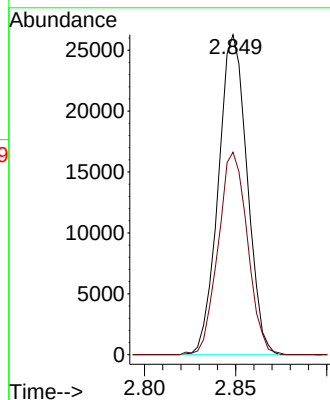
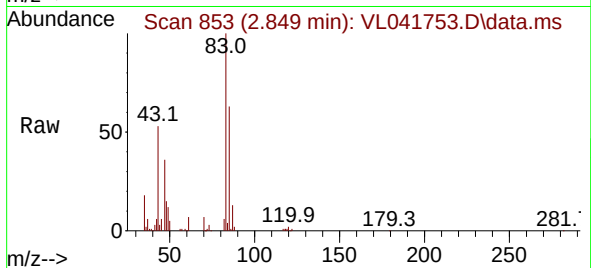
85 63.3 51.8 77.6

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

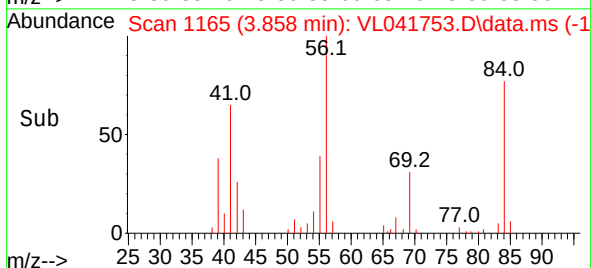
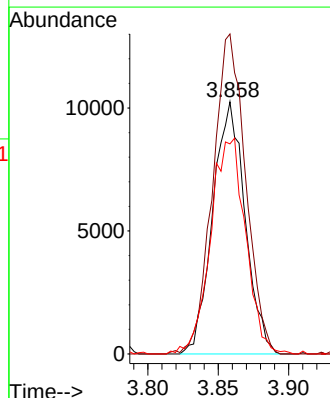
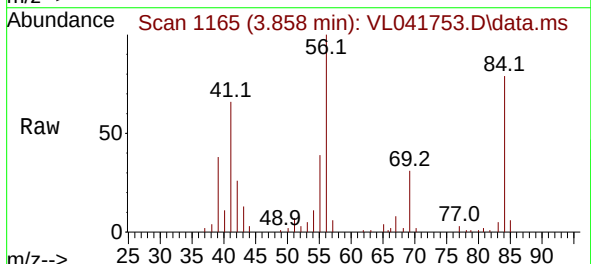
Tgt Ion: 84 Resp: 16384

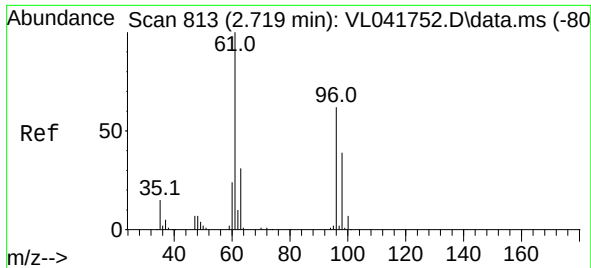
Ion Ratio Lower Upper

84 100

56 129.2 102.3 153.5

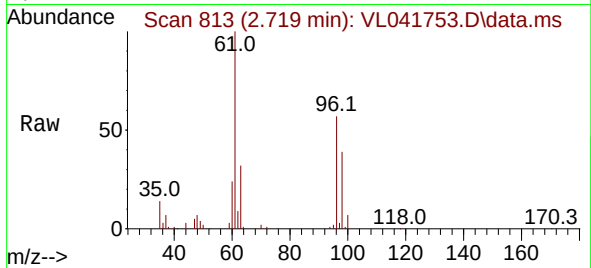
41 92.9 74.0 111.0





#31
 cis-1,2-Dichloroethene
 Concen: 2.057 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

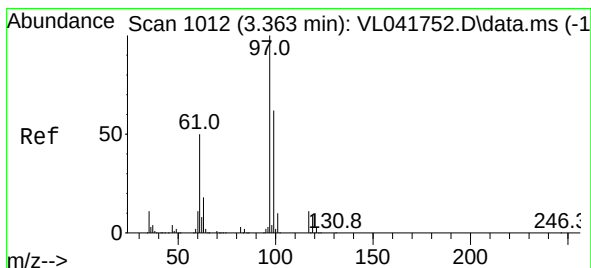
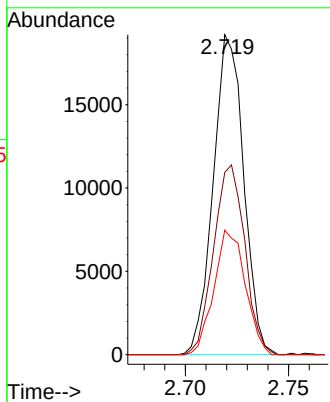
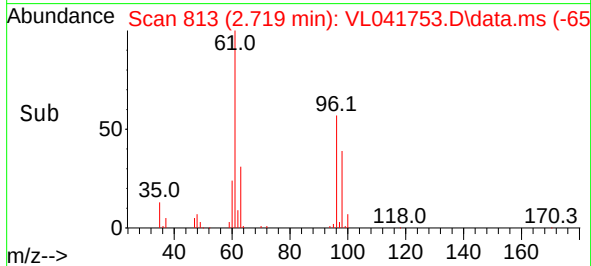
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



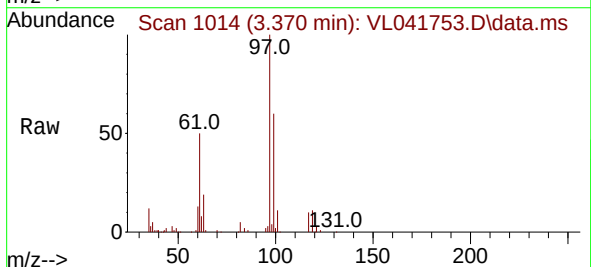
Tgt Ion: 61 Resp: 1968
 Ion Ratio Lower Upper
 61 100
 96 56.9 49.7 74.5
 98 38.9 30.8 46.2

Manual Integrations
 APPROVED

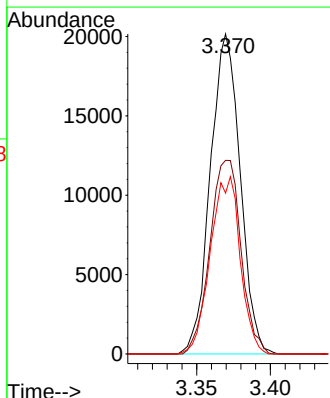
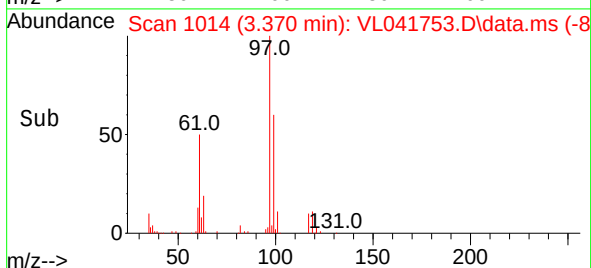
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

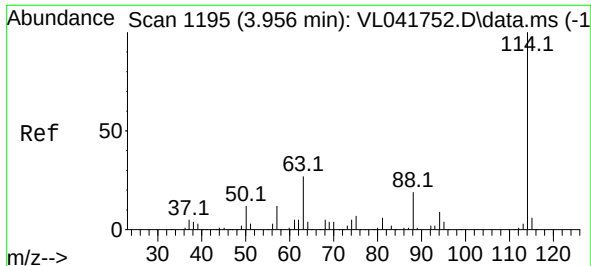


#32
 1,1,1-Trichloroethane
 Concen: 2.017 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.006 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03



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

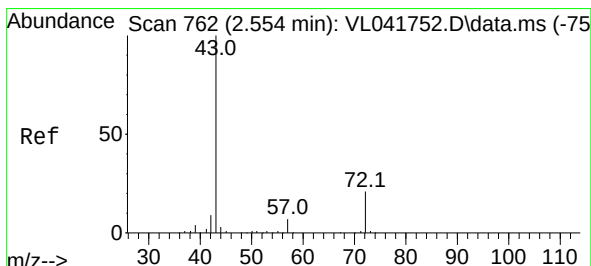
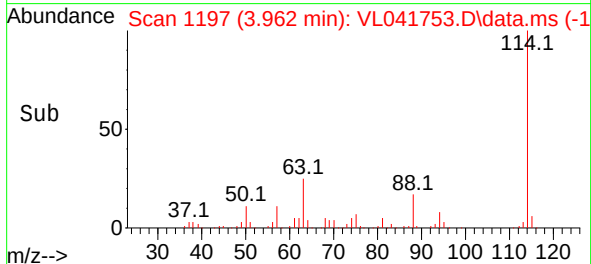
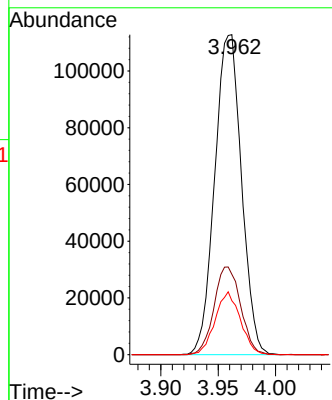
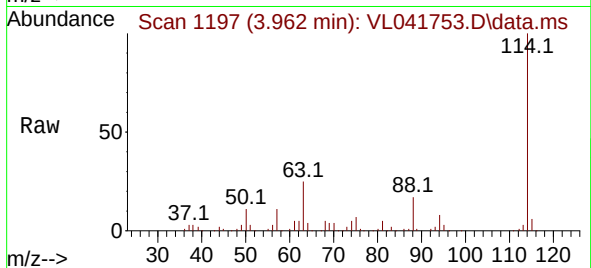
Tgt Ion:114 Resp: 182992

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

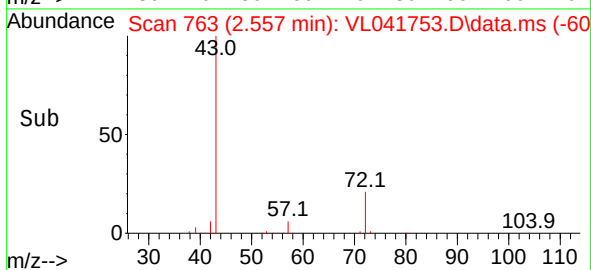
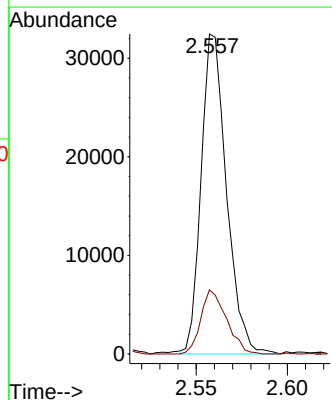
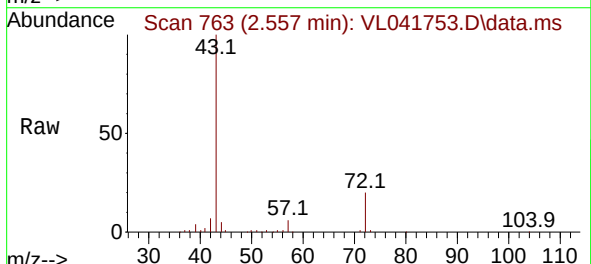
Delta R.T. 0.003 min

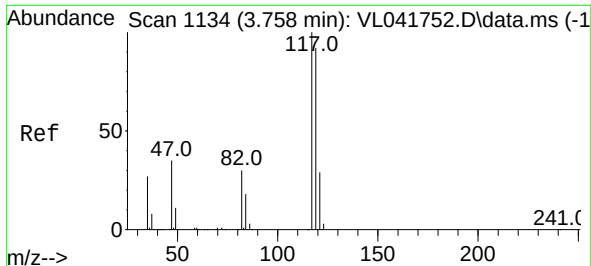
Lab File: VL041753.D

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_1

ClientSampleId :

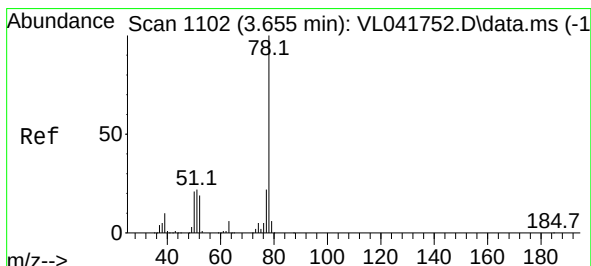
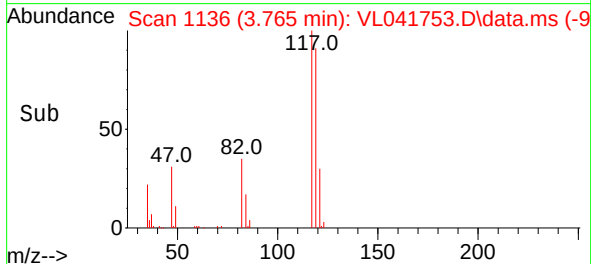
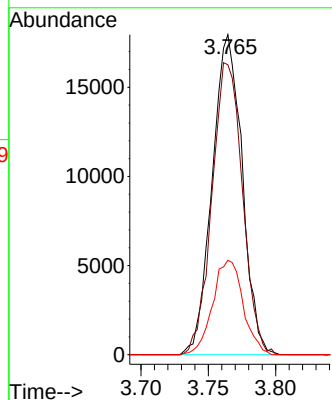
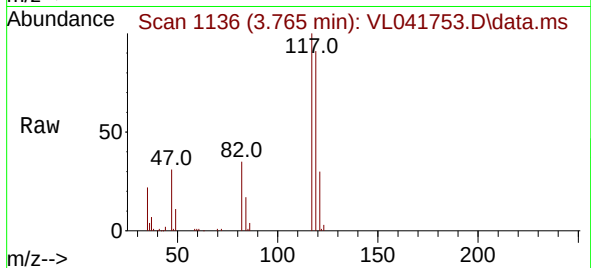
VSTDIC002

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

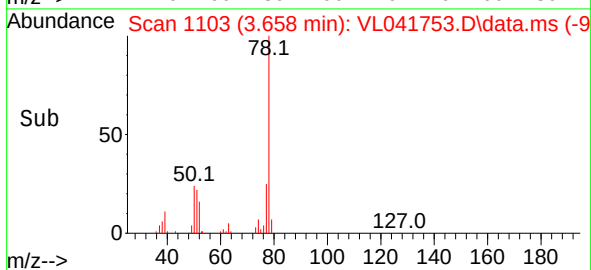
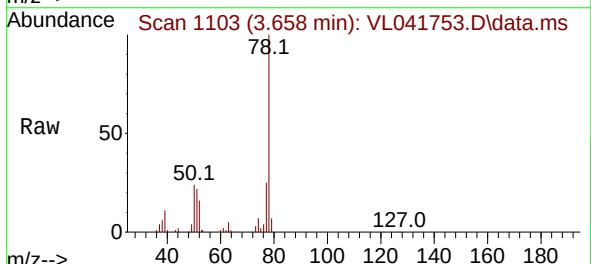
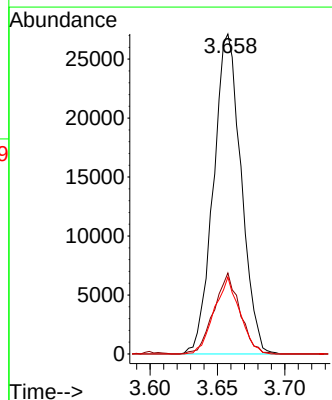
RT: 3.658 min Scan# 1103

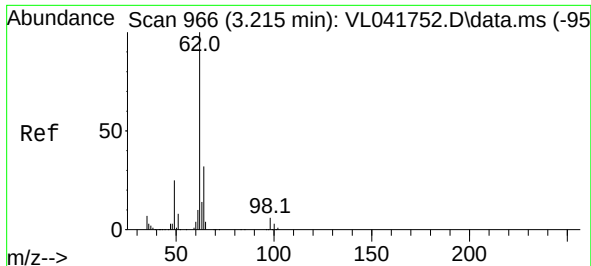
Delta R.T. 0.003 min

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





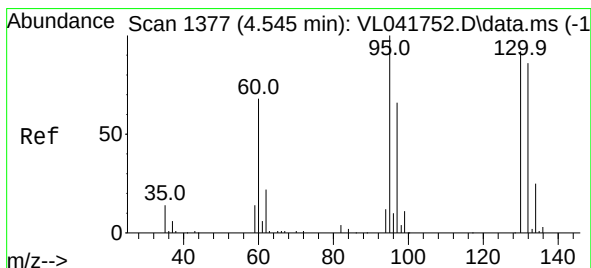
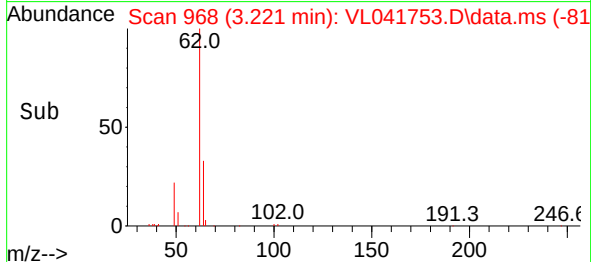
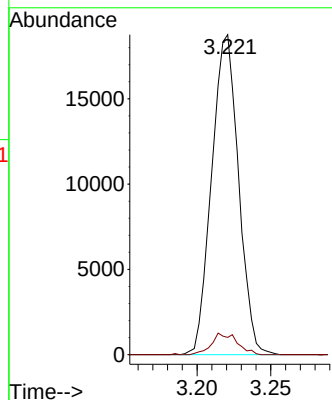
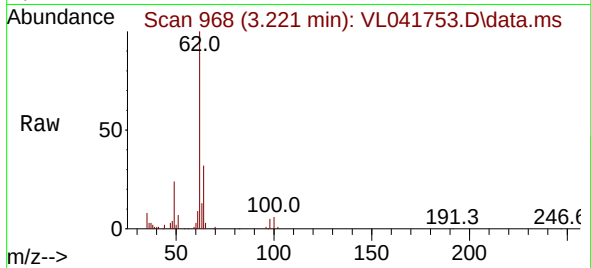
#37
1,2-Dichloroethane
Concen: 2.021 ppbv
RT: 3.221 min Scan# 966
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

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

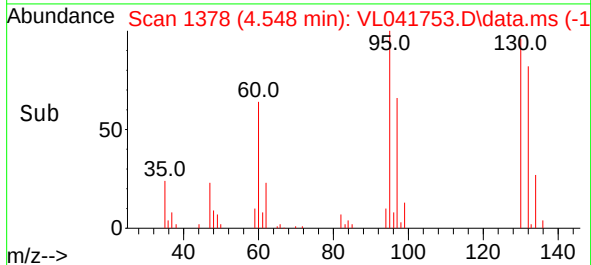
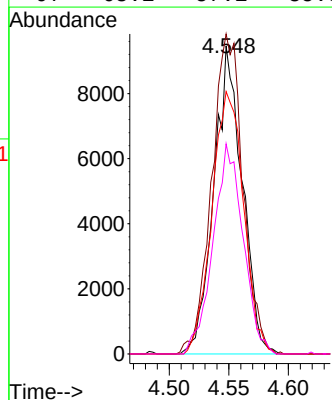
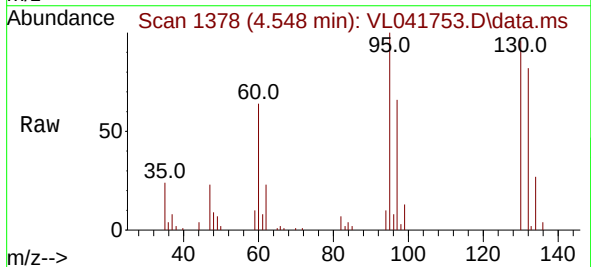
Manual Integrations
APPROVED

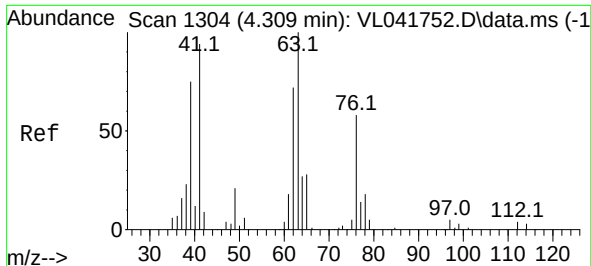
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

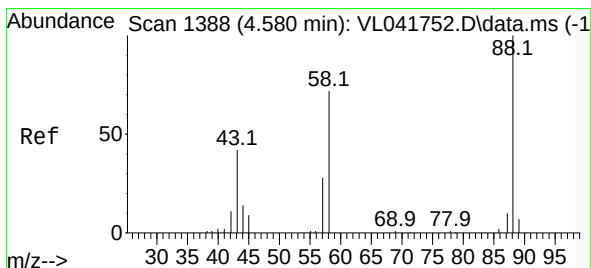
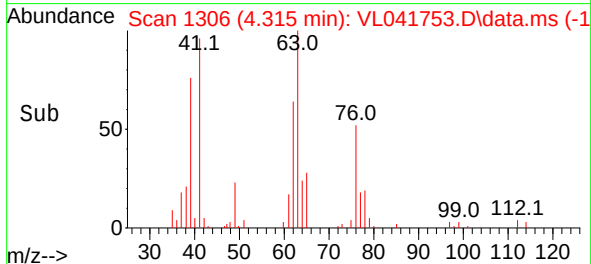
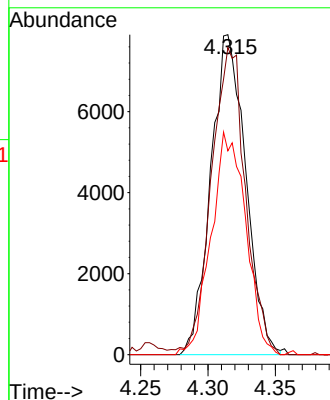
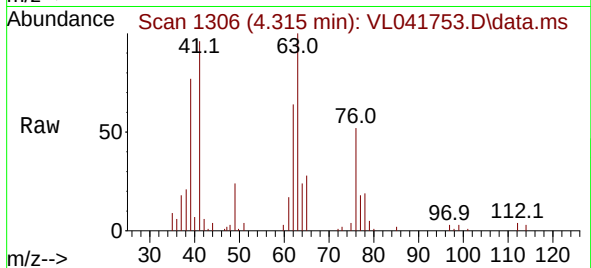
VSTDICC002

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

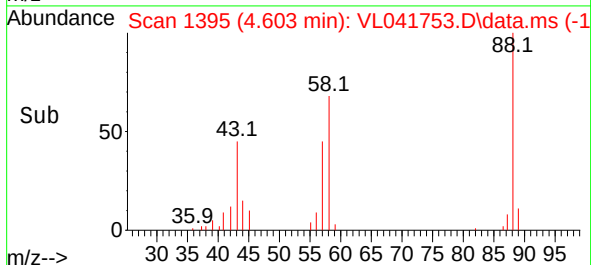
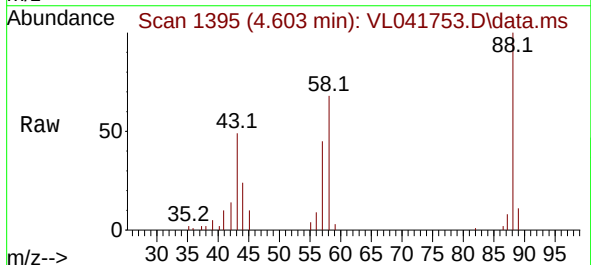
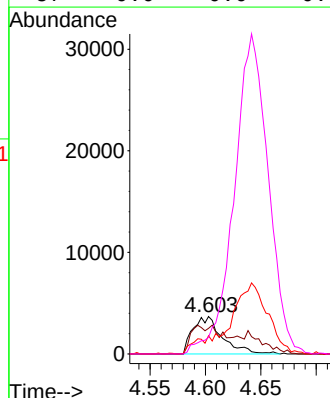
RT: 4.603 min Scan# 1395

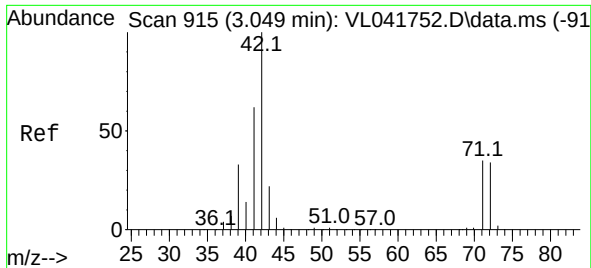
Delta R.T. 0.022 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

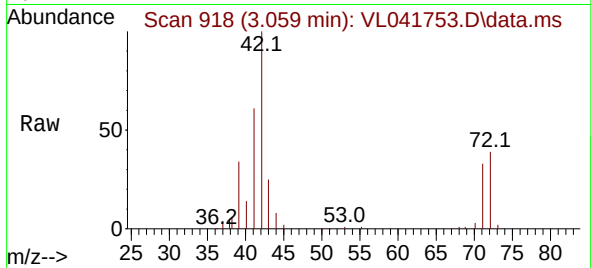
Tgt Ion:	88	Resp:	6826
Ion Ratio	Lower	Upper	
88	100		
58	0.0	61.0	91.6#
43	0.0	29.4	44.0#
57	0.0	0.0	0.0





#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

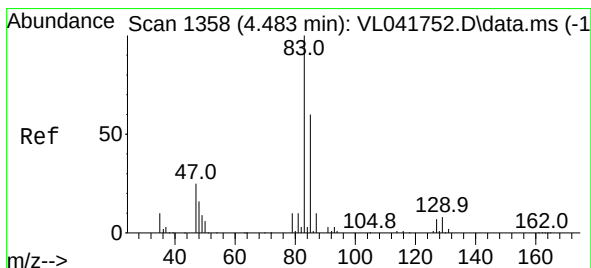
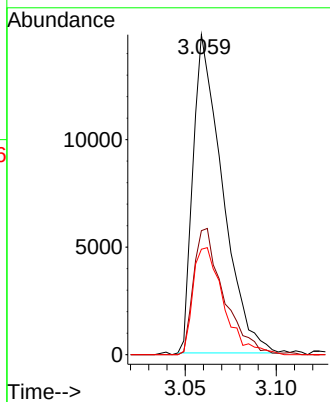
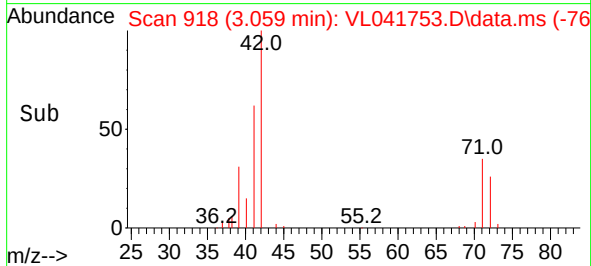
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



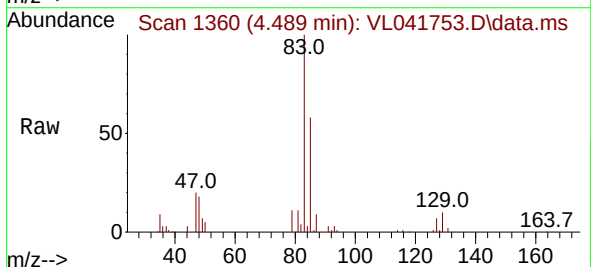
Tgt Ion: 42 Resp: 1666
Ion Ratio Lower Upper
42 100
72 40.7 29.1 43.7
71 34.9 28.4 42.6

Manual Integrations
APPROVED

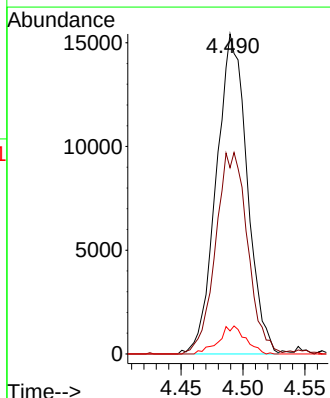
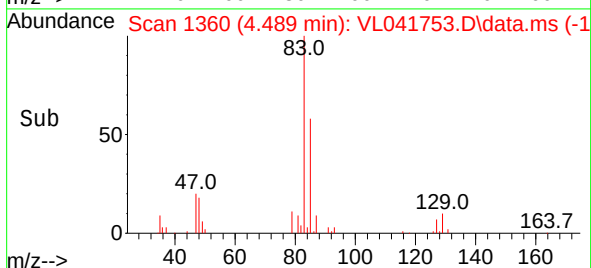
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

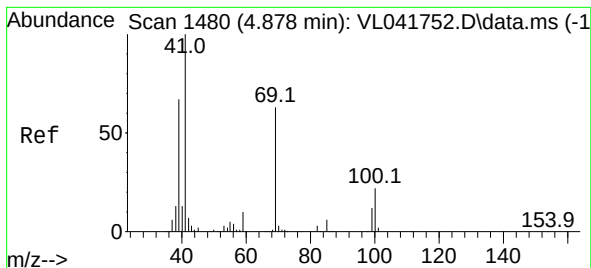


#42
Bromodichloromethane
Concen: 1.972 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03



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# 1480

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

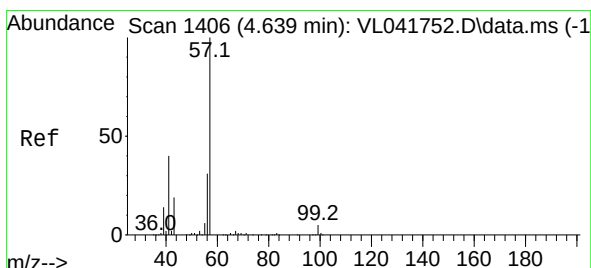
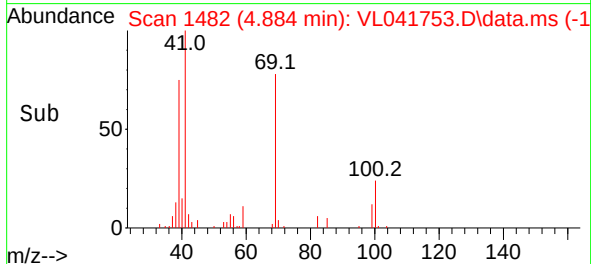
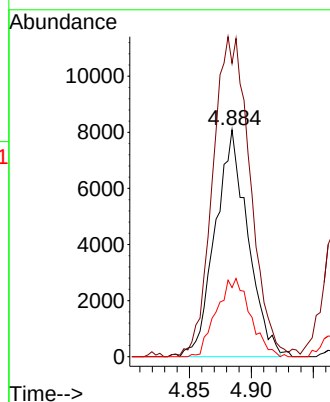
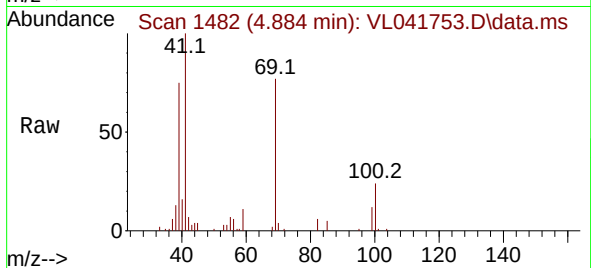
Tgt Ion: 69 Resp: 14849

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

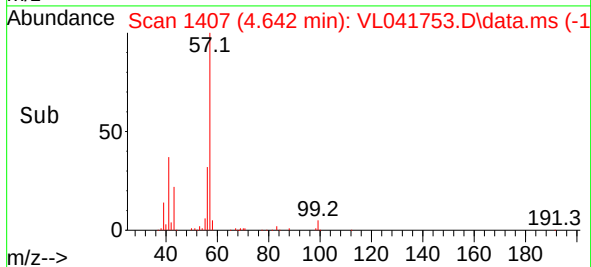
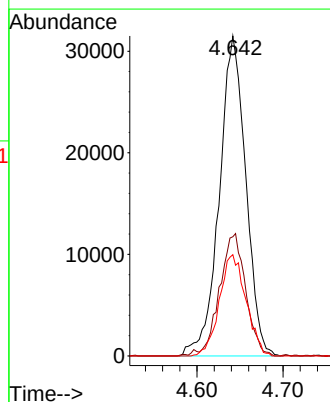
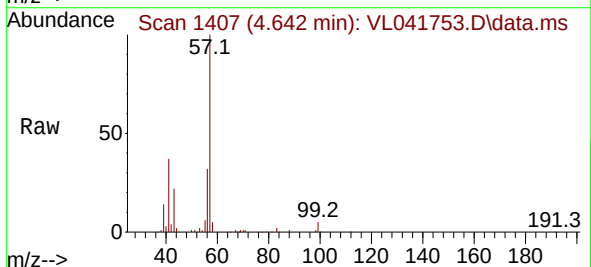
Delta R.T. 0.003 min

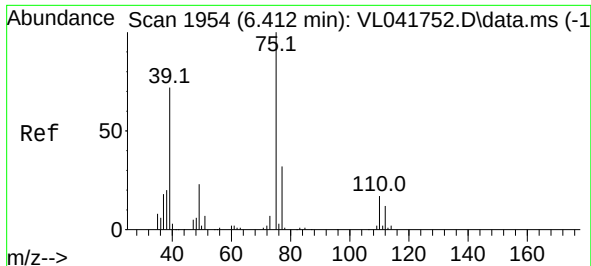
Lab File: VL041753.D

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

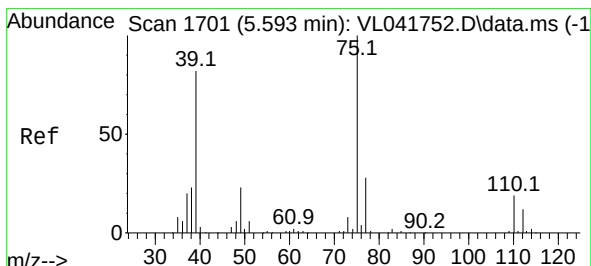
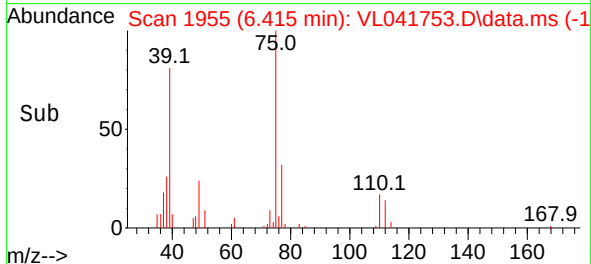
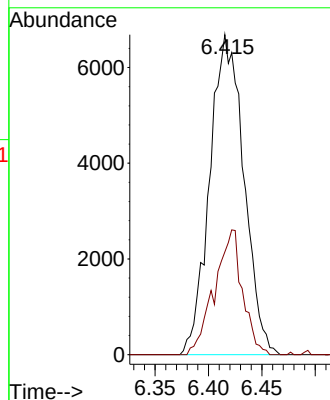
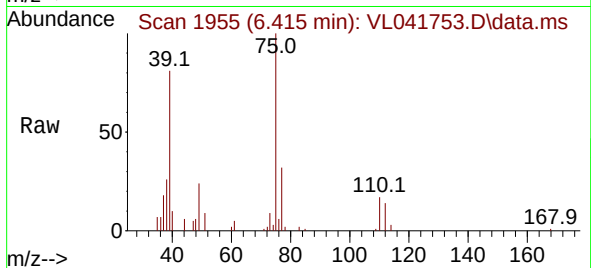
77 32.1 25.9 38.9

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

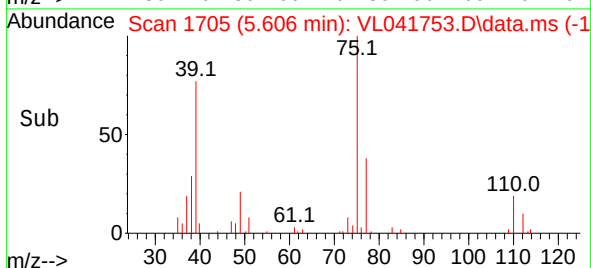
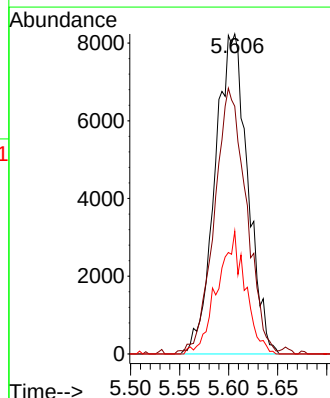
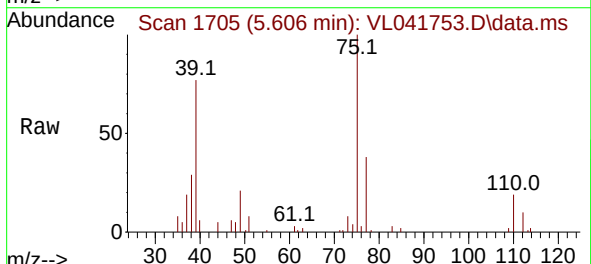
Tgt Ion: 75 Resp: 19105

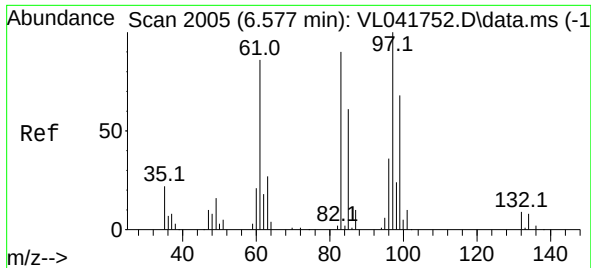
Ion Ratio Lower Upper

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

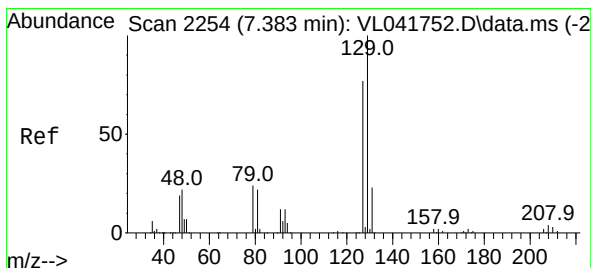
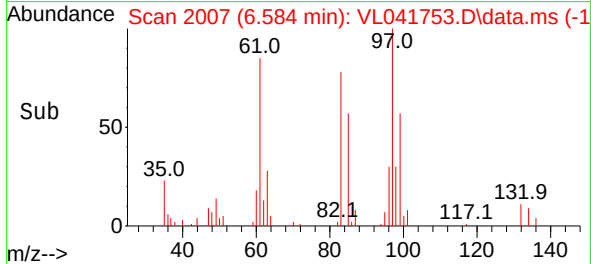
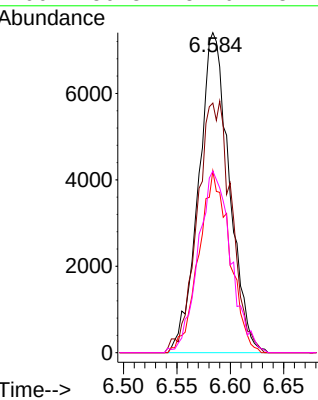
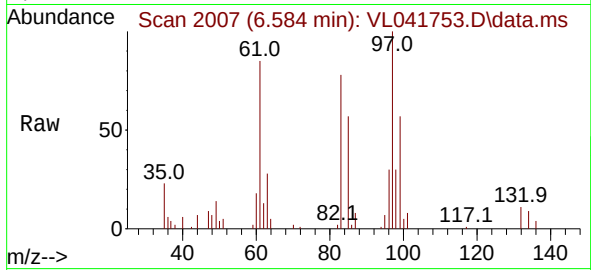
99 56.8 54.0 81.0

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

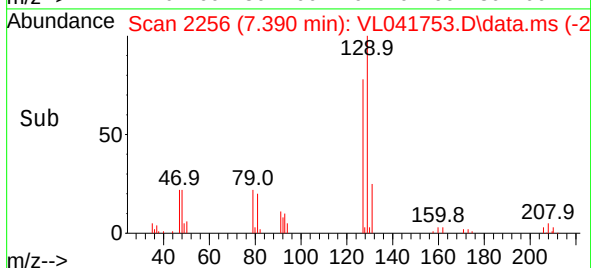
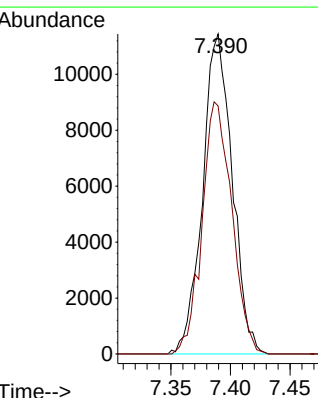
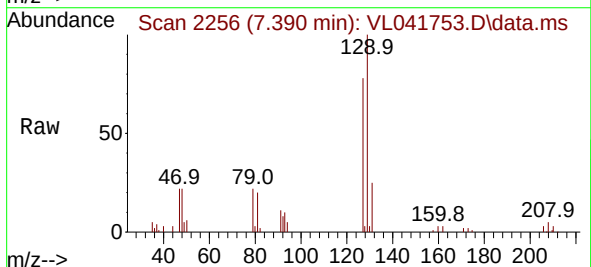
Acq: 16 Dec 2024 14:03

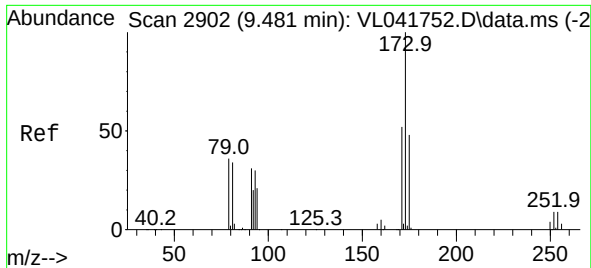
Tgt Ion:129 Resp: 19764

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 :

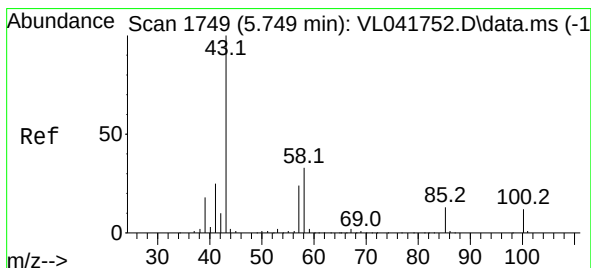
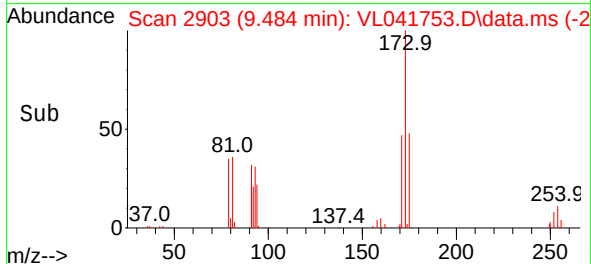
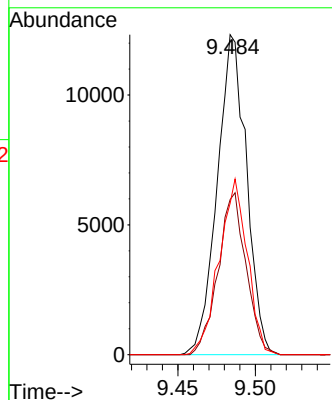
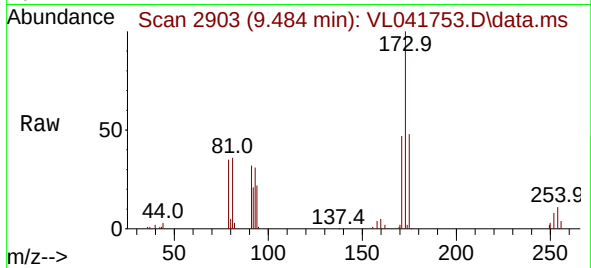
VSTDIC002

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

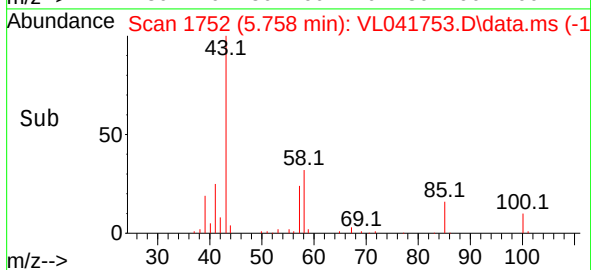
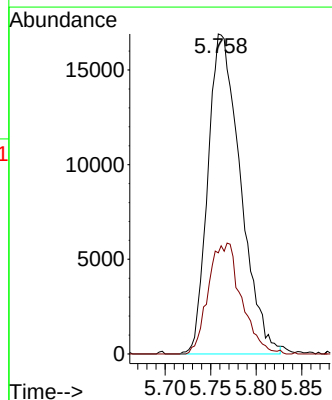
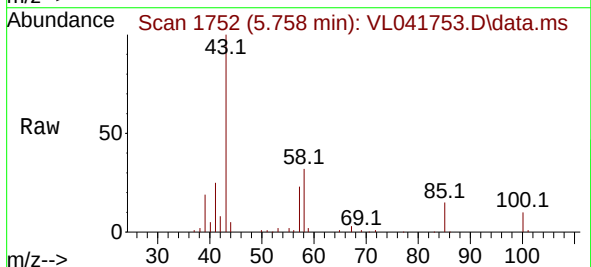
APPROVED

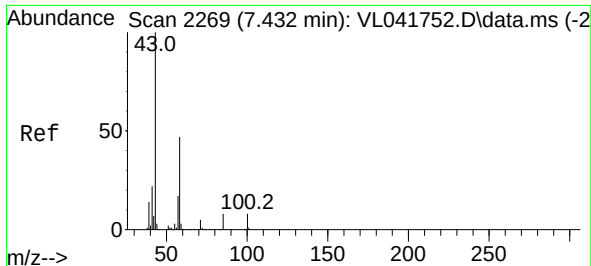
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





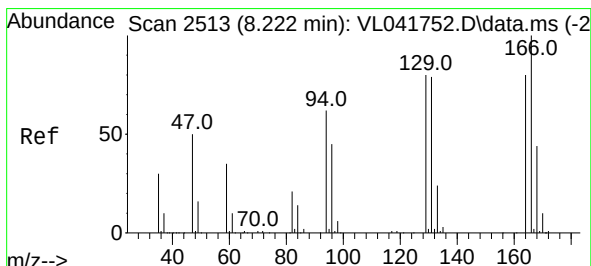
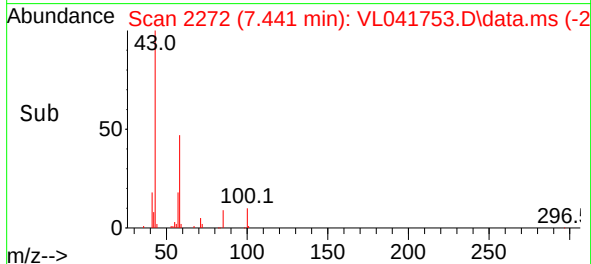
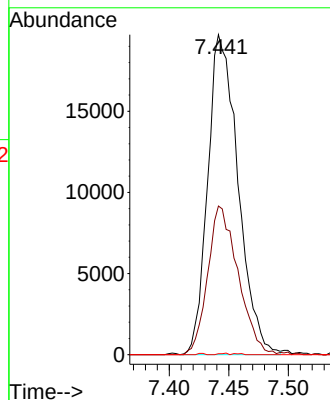
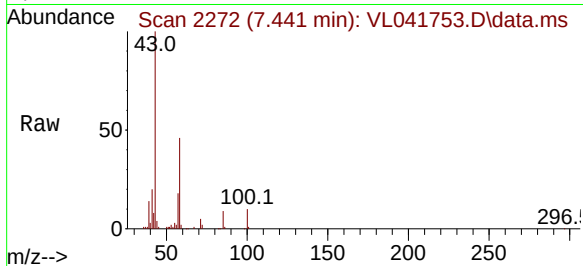
#51
2-Hexanone
Concen: 2.147 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

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

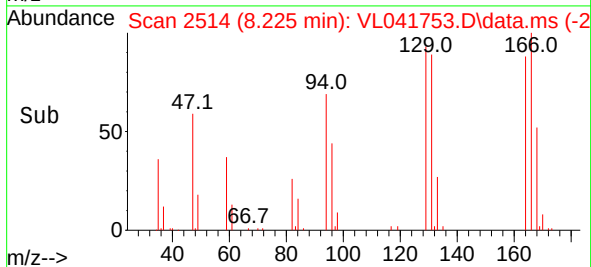
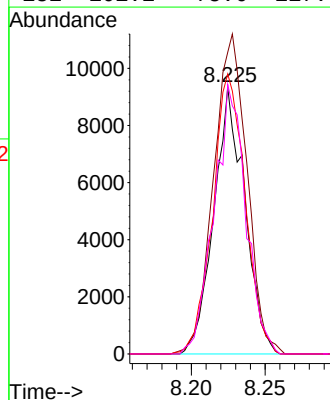
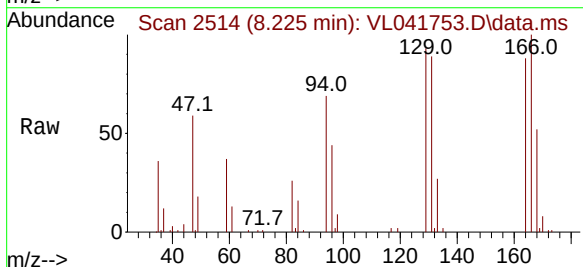
Manual Integrations
APPROVED

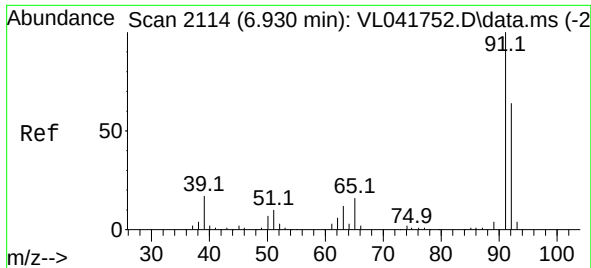
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDIC002

Tgt Ion: 91 Resp: 44470

Ion Ratio Lower Upper

91 100

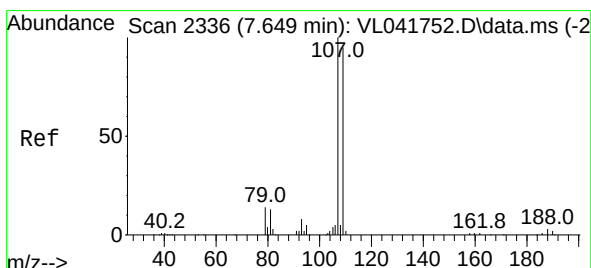
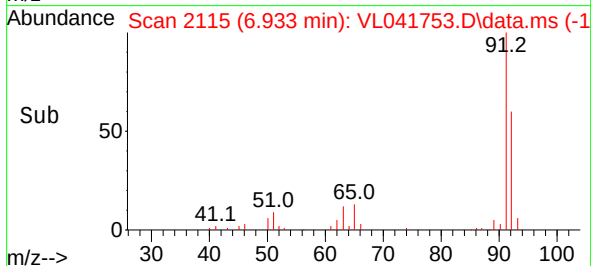
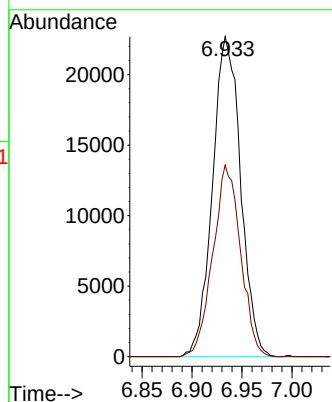
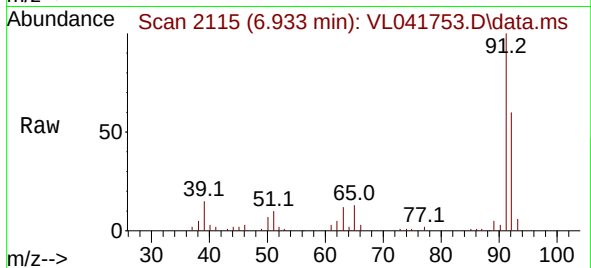
92 58.8 47.9 71.9

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

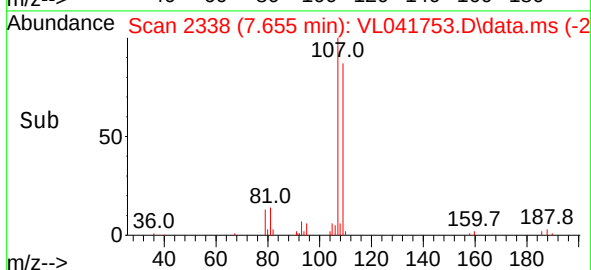
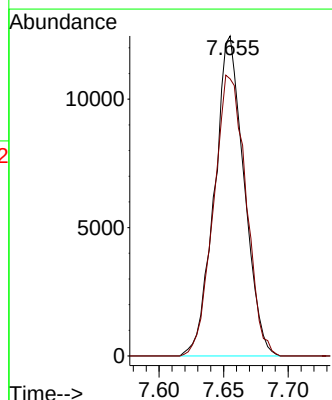
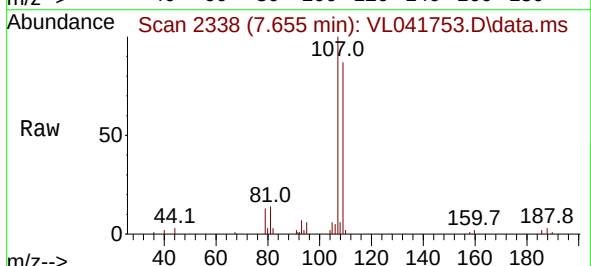
Acq: 16 Dec 2024 14:03

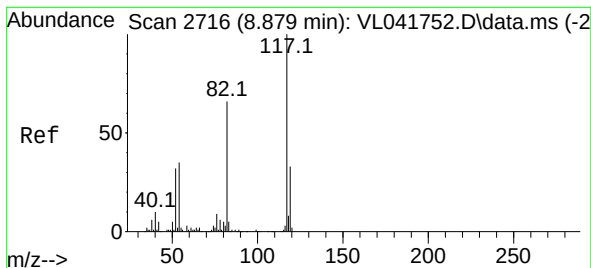
Tgt Ion:107 Resp: 19820

Ion Ratio Lower Upper

107 100

109 86.6 75.9 113.9





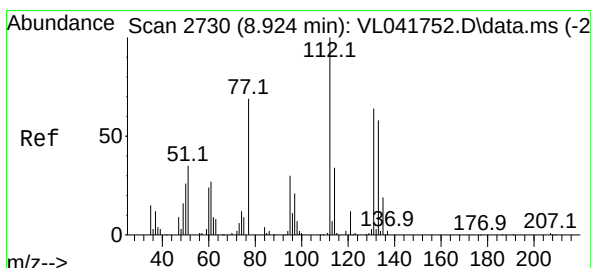
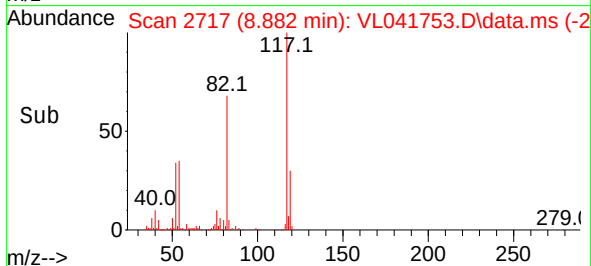
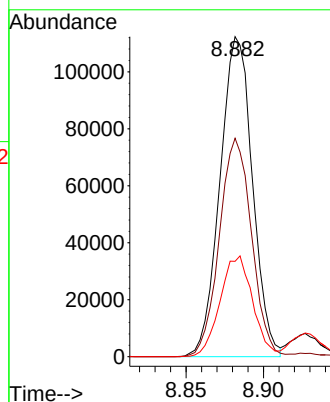
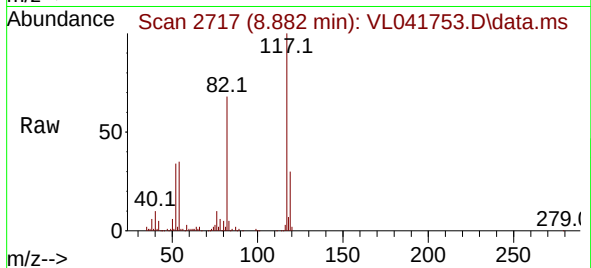
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

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

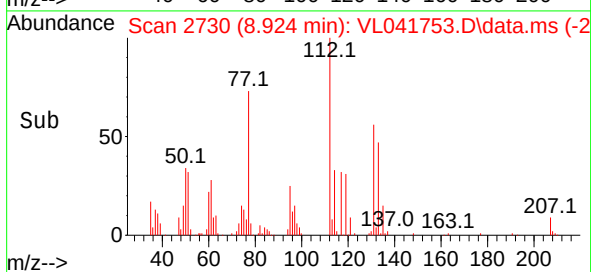
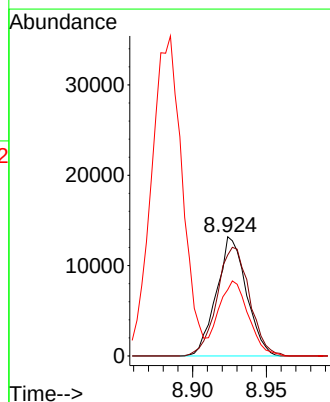
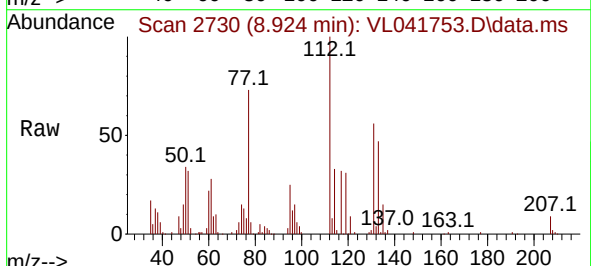
Manual Integrations
APPROVED

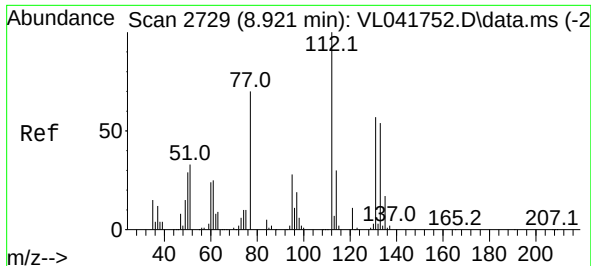
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

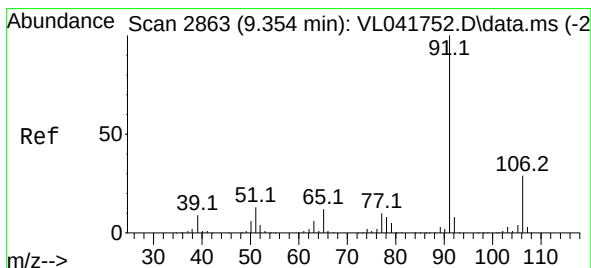
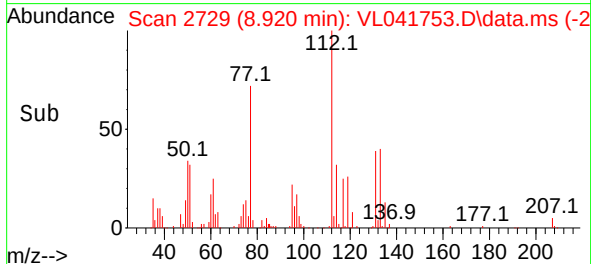
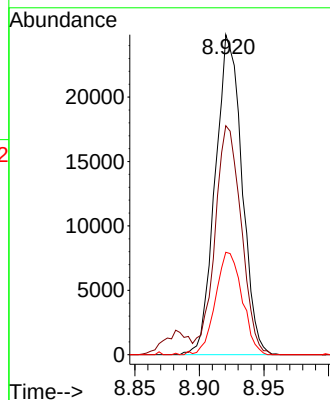
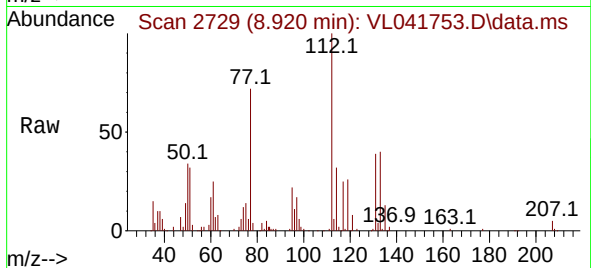
VSTDIC002

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

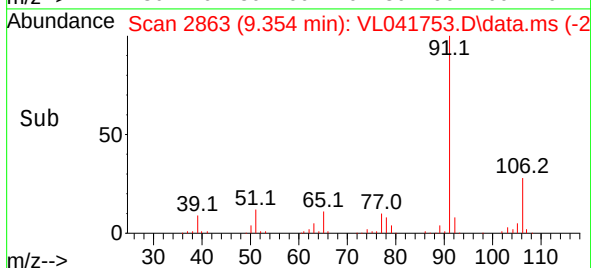
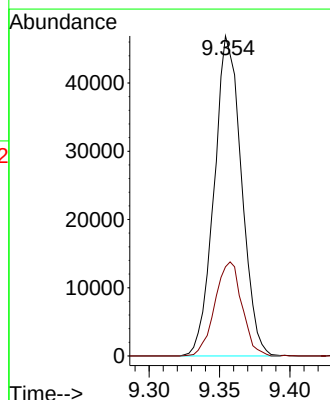
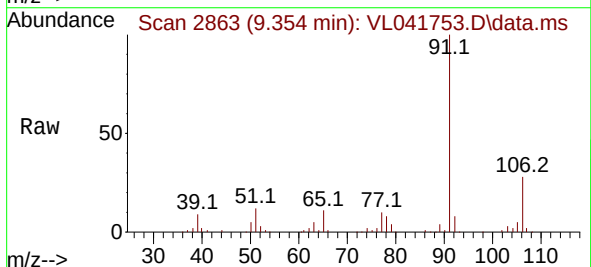
RT: 9.354 min Scan# 2863

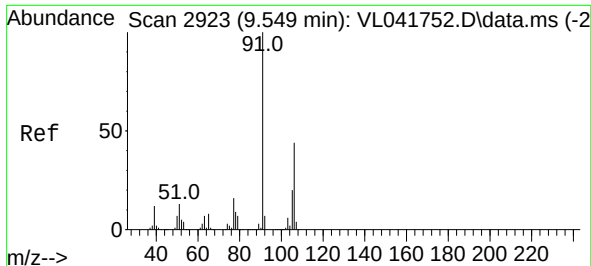
Delta R.T. -0.000 min

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 :

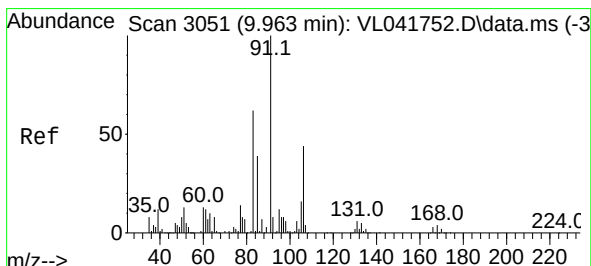
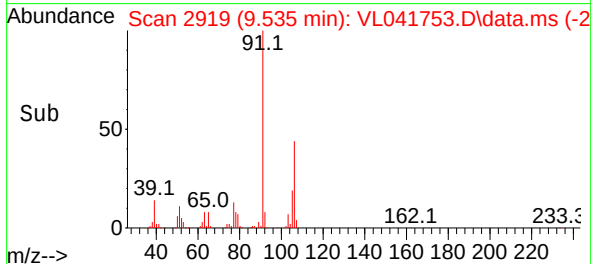
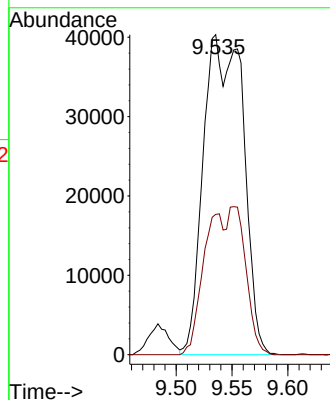
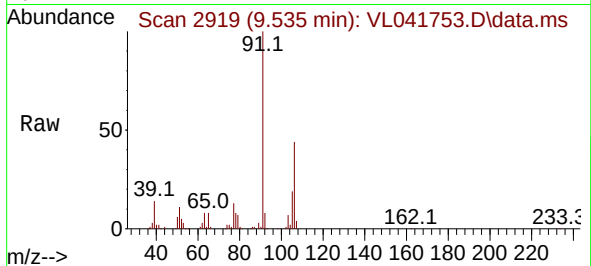
VSTDICC002

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

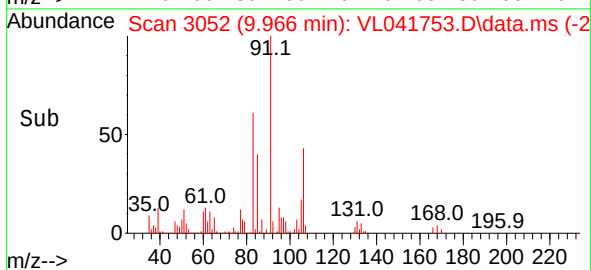
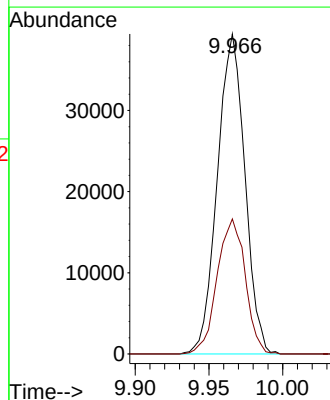
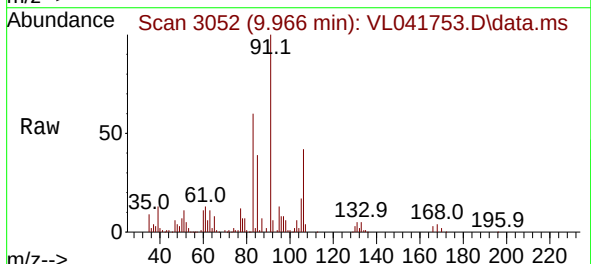
RT: 9.966 min Scan# 3052

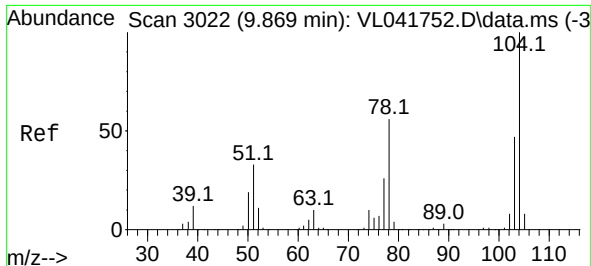
Delta R.T. 0.003 min

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_1

ClientSampleId :

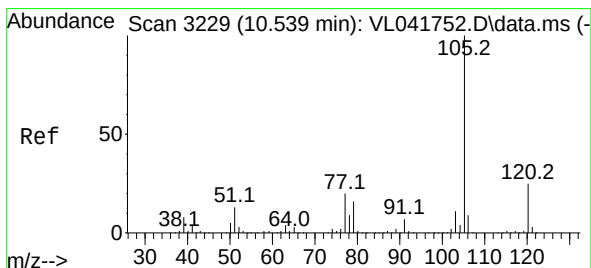
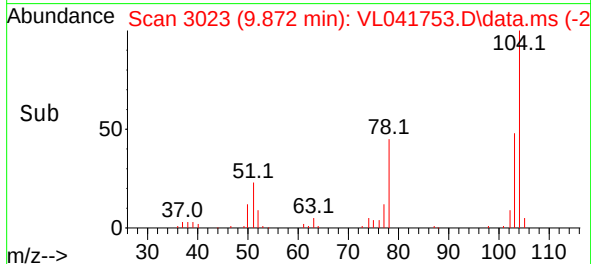
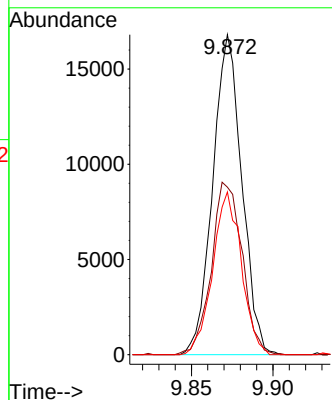
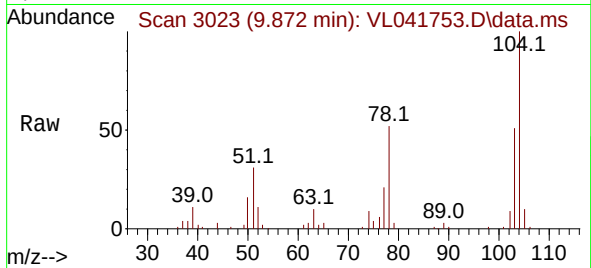
VSTDICC002

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

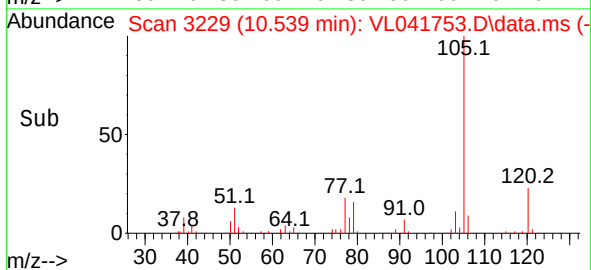
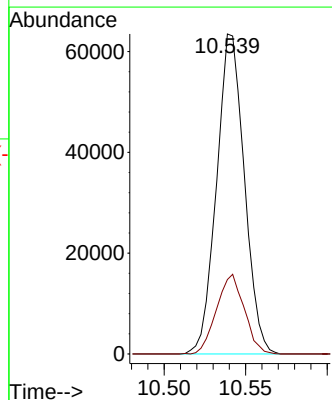
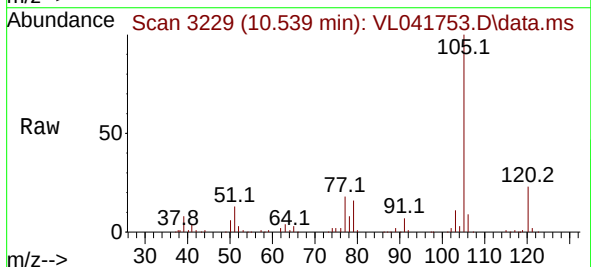
APPROVED

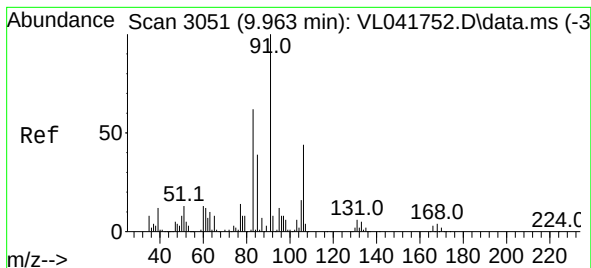
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

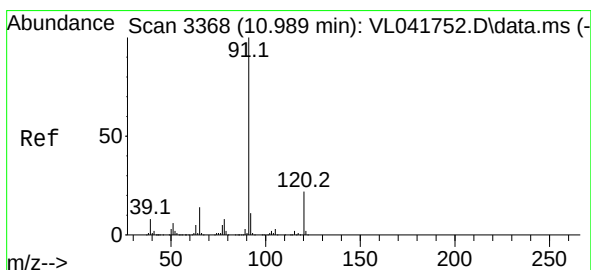
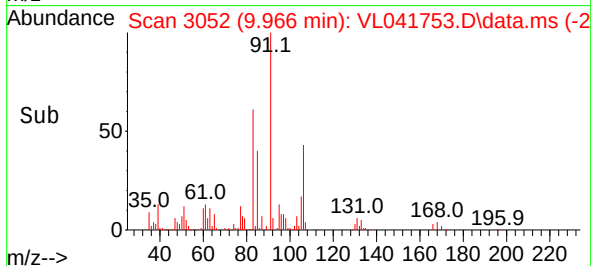
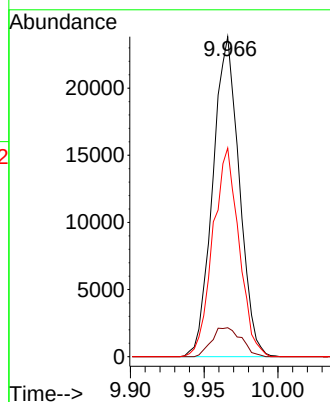
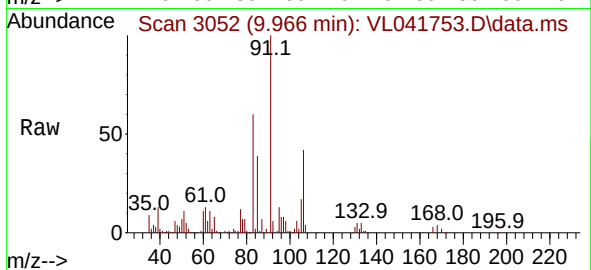
VSTDICC002

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

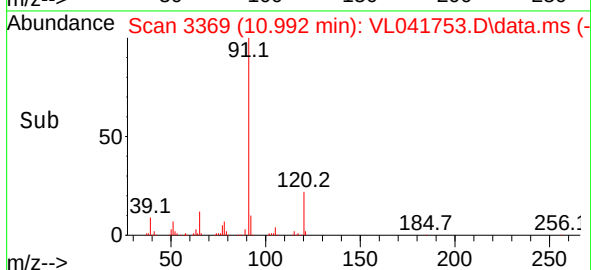
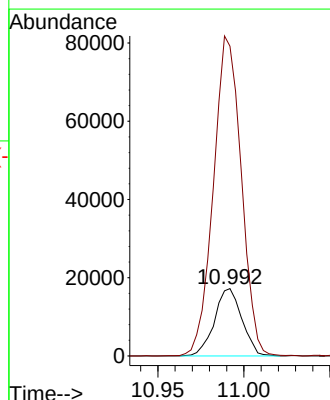
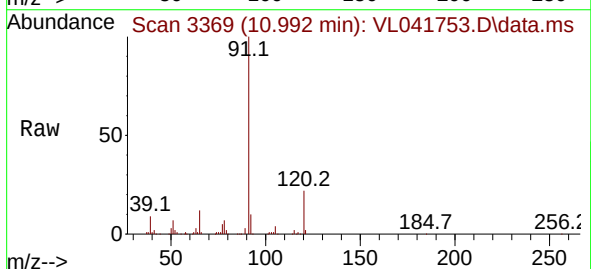
RT: 10.992 min Scan# 3369

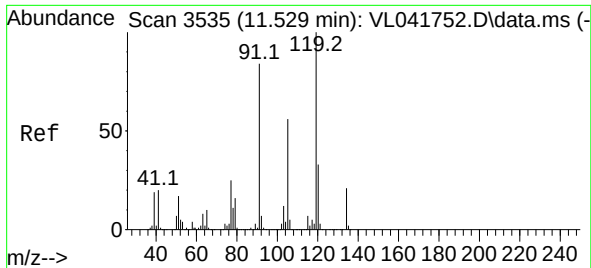
Delta R.T. 0.003 min

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 :

VSTDICC002

Tgt Ion:119 Resp: 68879

Ion Ratio Lower Upper

119 100

91 82.1 67.0 100.4

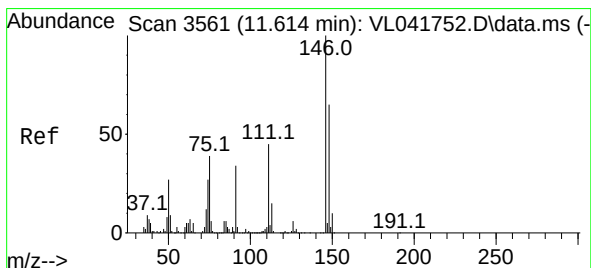
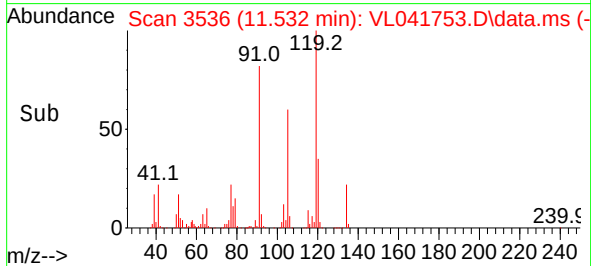
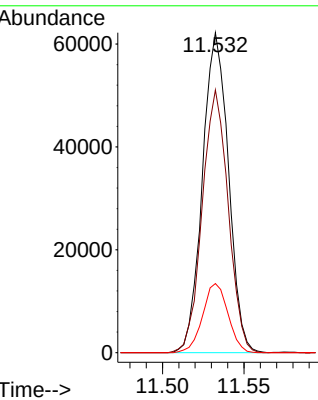
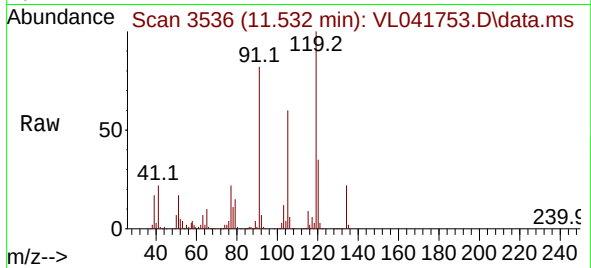
134 21.1 16.5 24.7

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

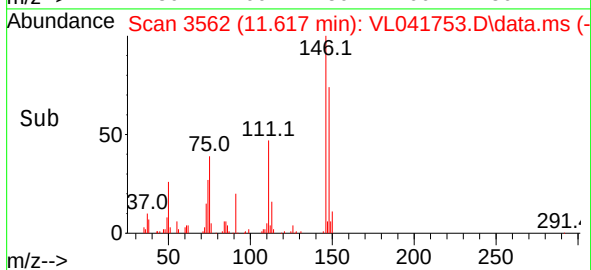
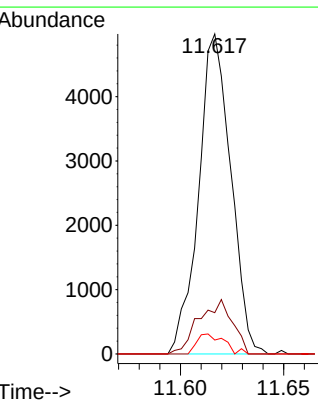
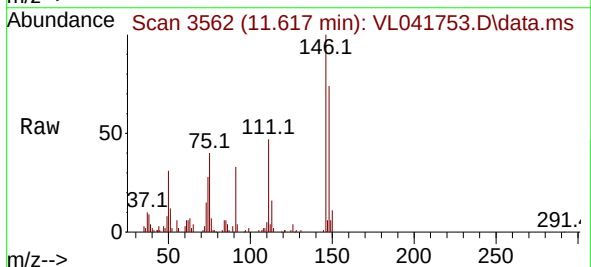
Tgt Ion: 91 Resp: 5400

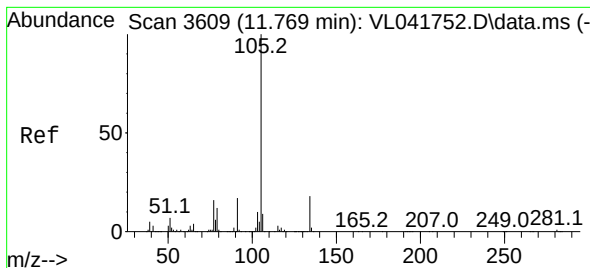
Ion Ratio Lower Upper

91 100

126 17.7 13.9 20.9

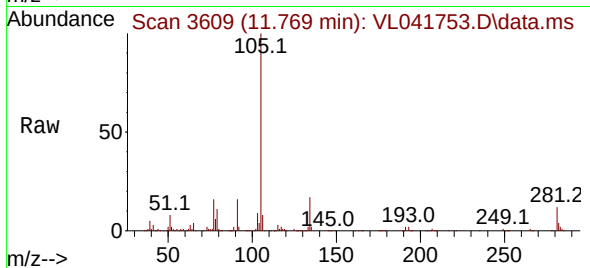
128 5.3 4.4 6.6





#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

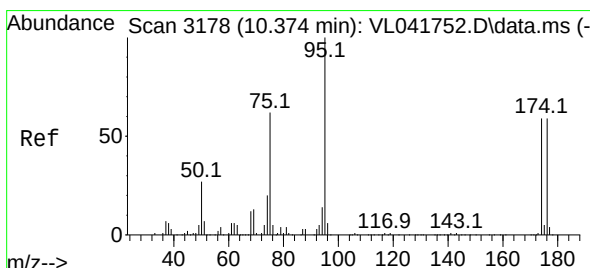
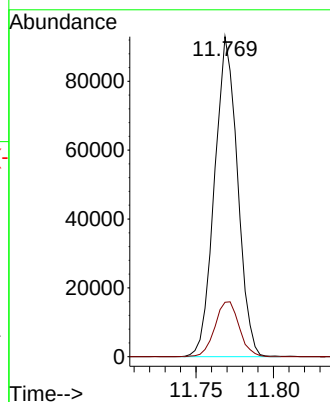
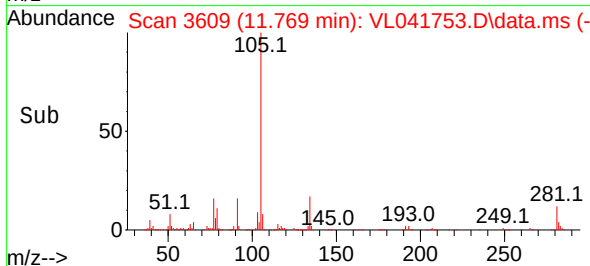
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



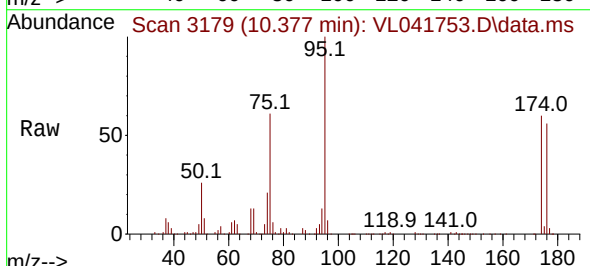
Tgt Ion:105 Resp: 95968
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.5 21.7

Manual Integrations
 APPROVED

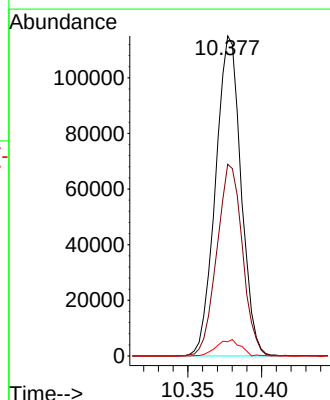
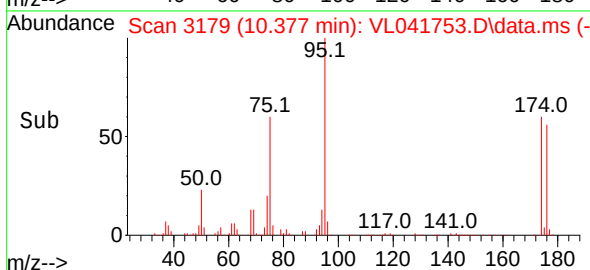
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

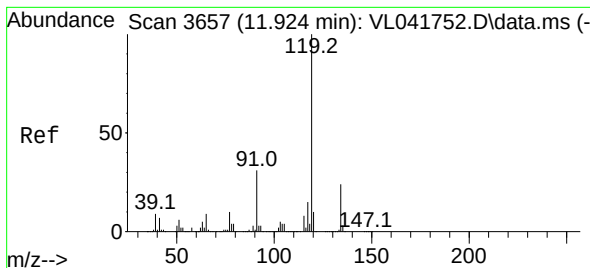


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.122 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03



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# 3657

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

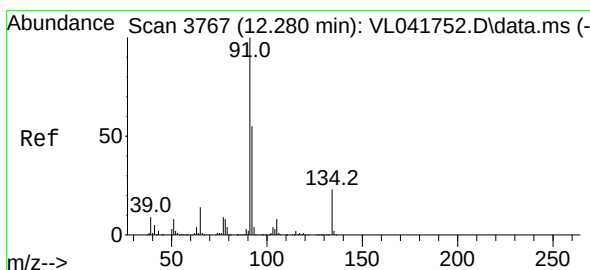
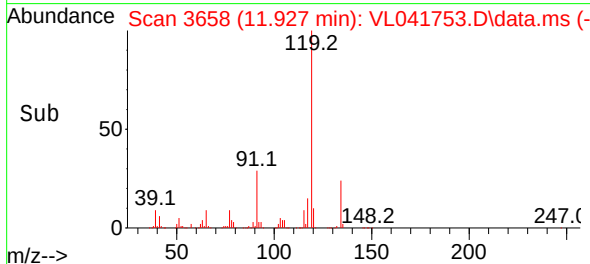
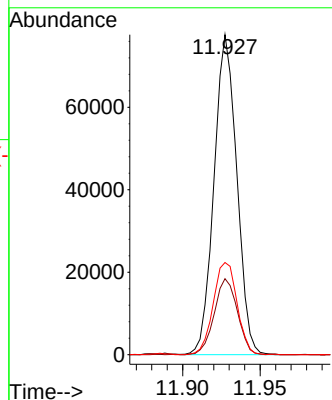
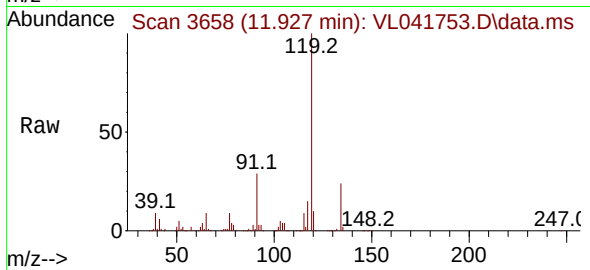
VSTDIC002

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

Manual Integrations

APPROVED

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



#70

n-Butylbenzene

Concen: 2.122 ppbv

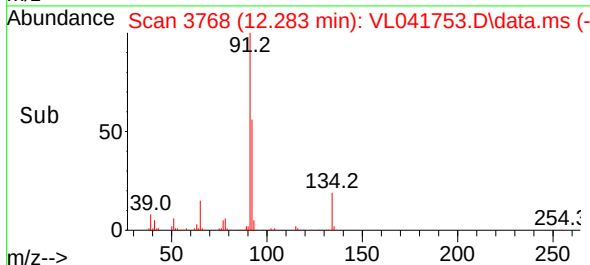
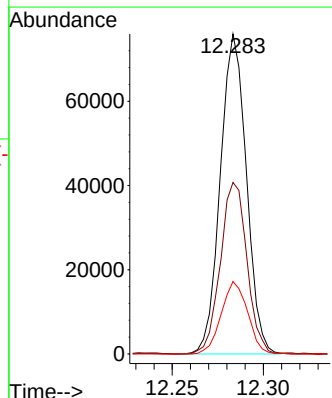
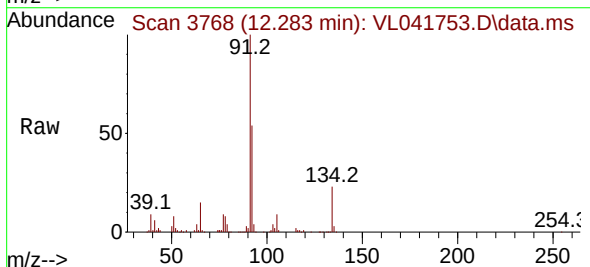
RT: 12.283 min Scan# 3768

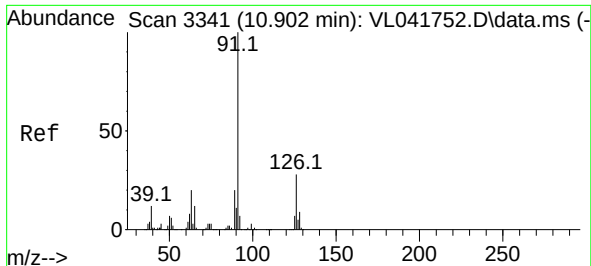
Delta R.T. 0.003 min

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





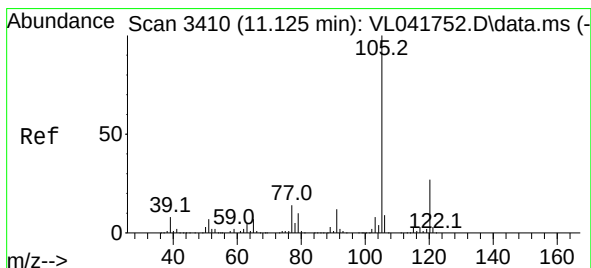
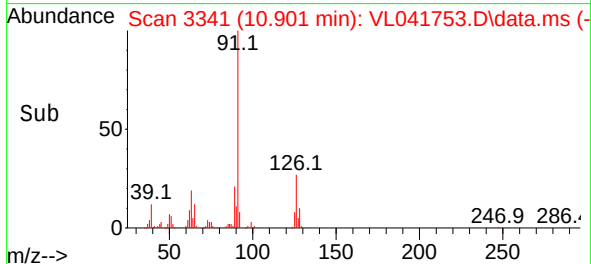
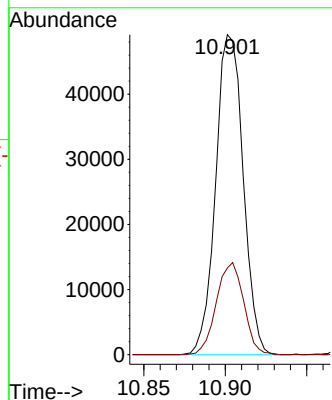
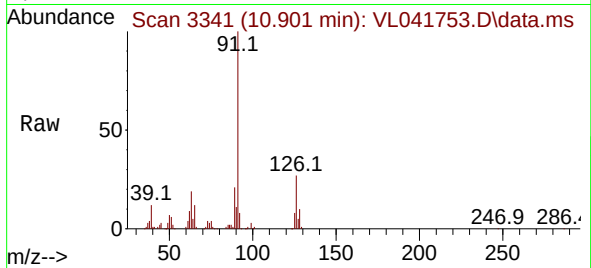
#71
2-Chlorotoluene
Concen: 2.114 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

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

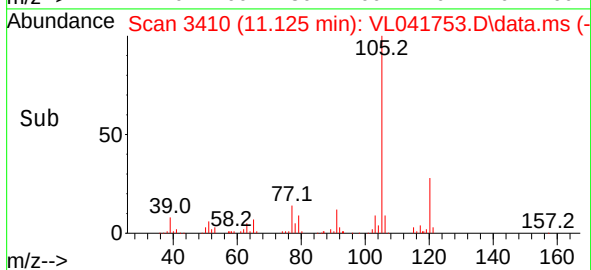
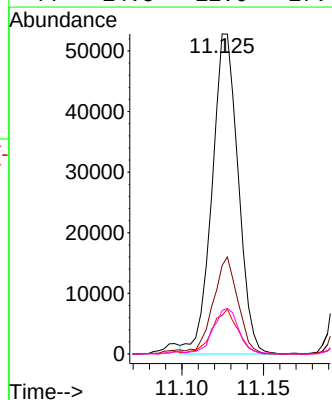
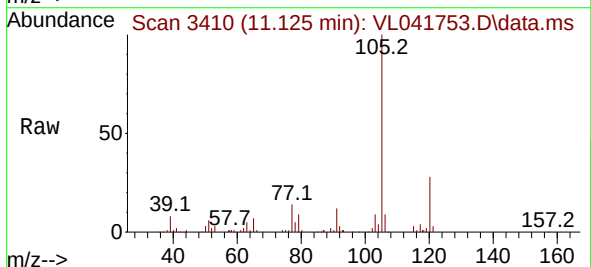
Manual Integrations
APPROVED

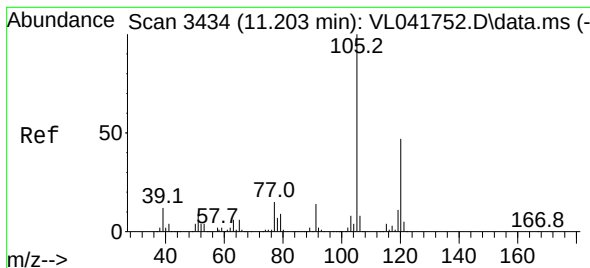
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

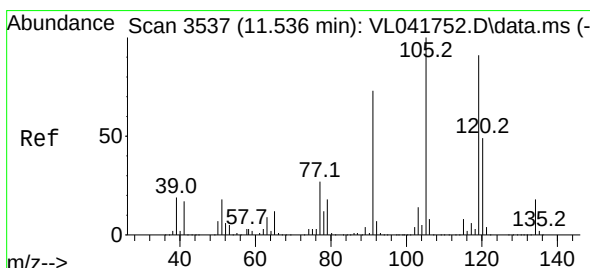
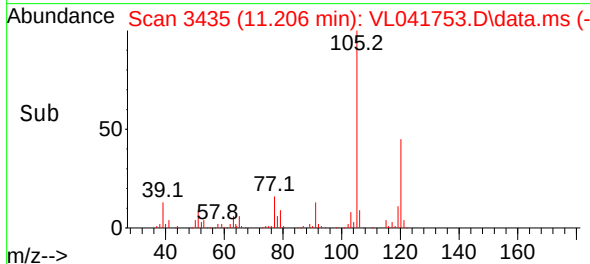
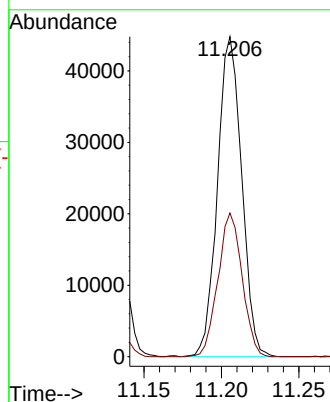
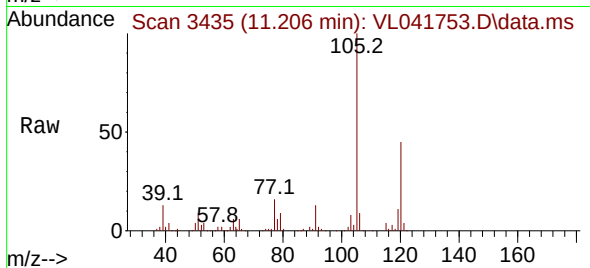
120 44.9 37.4 56.2

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

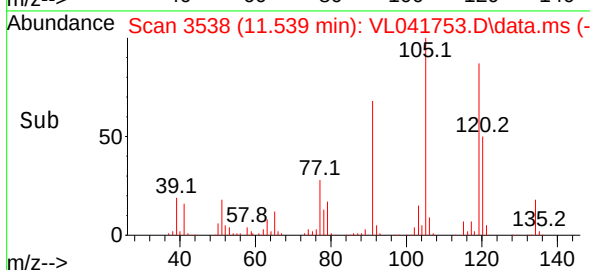
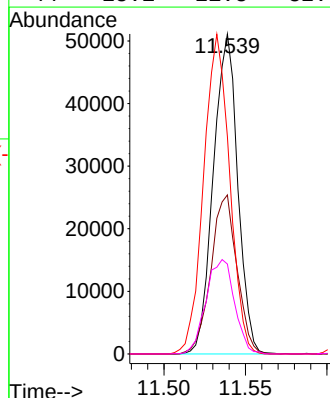
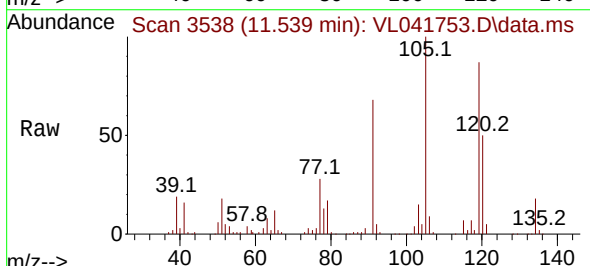
Ion Ratio Lower Upper

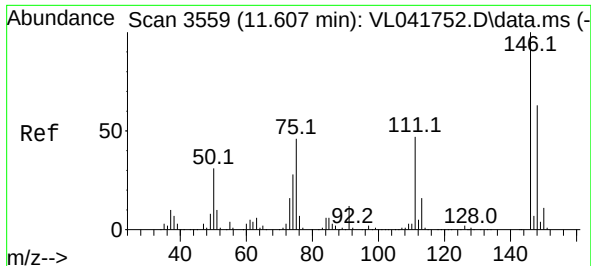
105 100

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# 3560

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

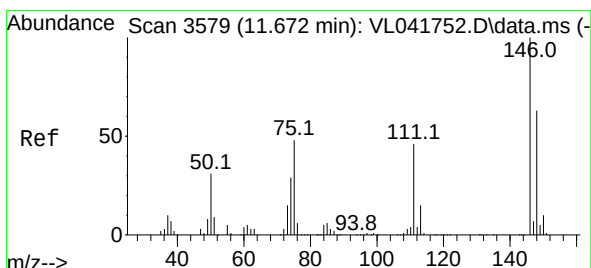
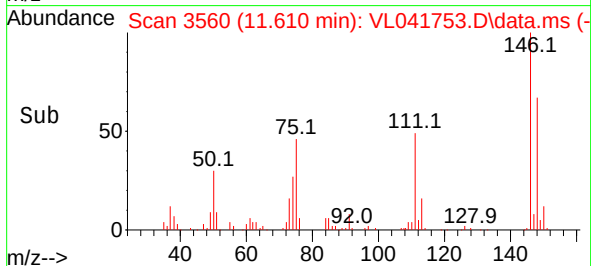
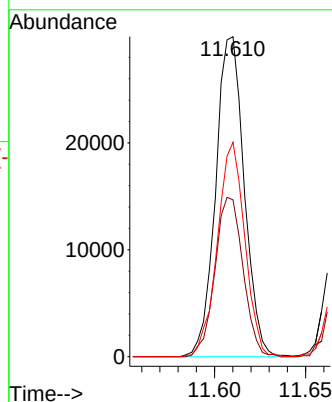
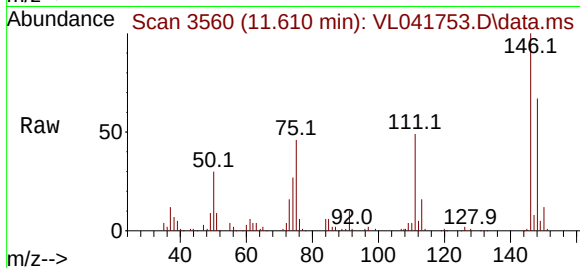
VSTDICC002

Tgt Ion:146 Resp: 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

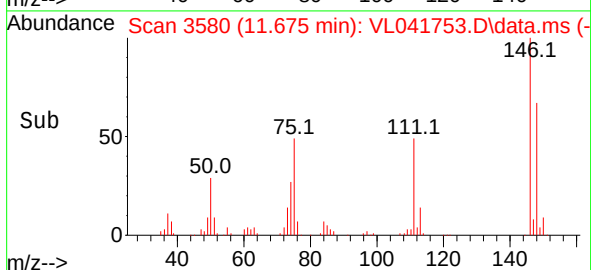
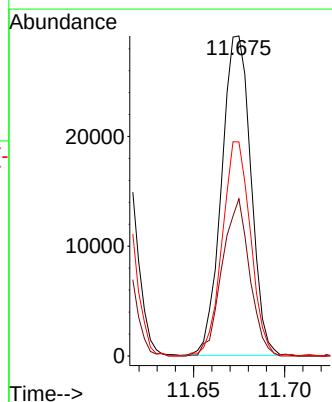
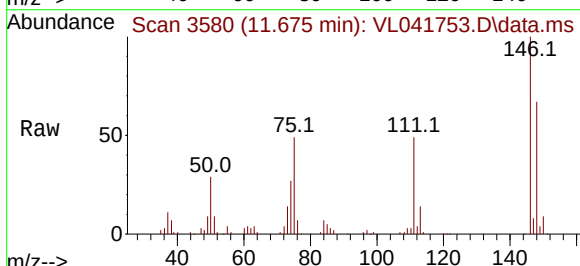
RT: 11.675 min Scan# 3580

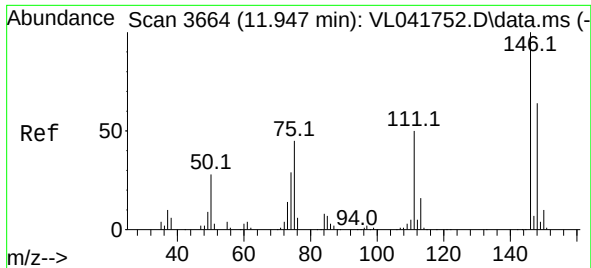
Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

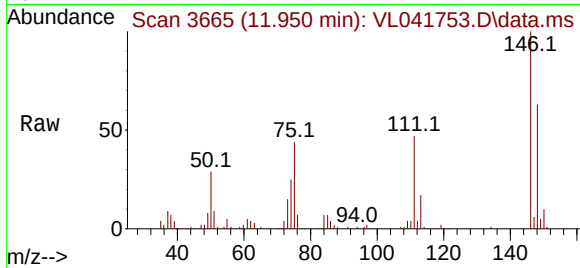
Tgt Ion:146 Resp: 32527
Ion Ratio Lower Upper
146 100
111 46.1 22.7 68.1
148 65.1 31.4 94.0





#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

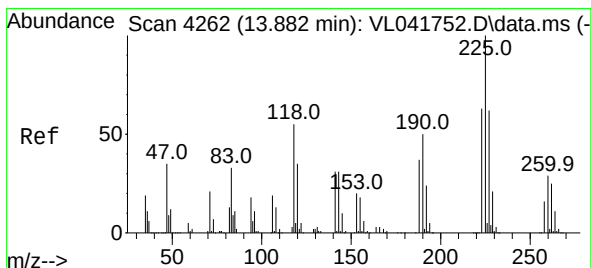
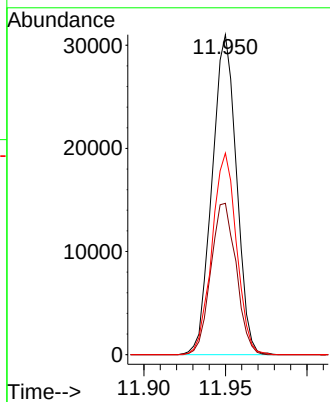
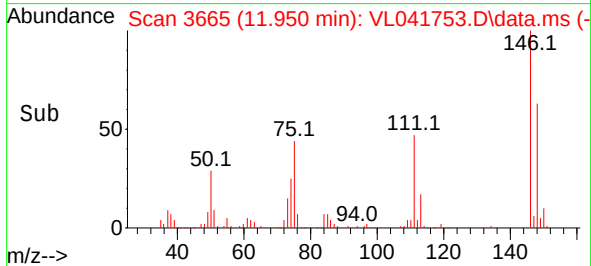
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

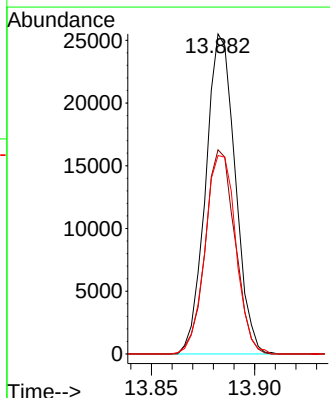
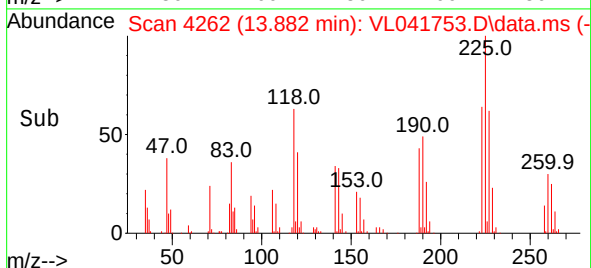
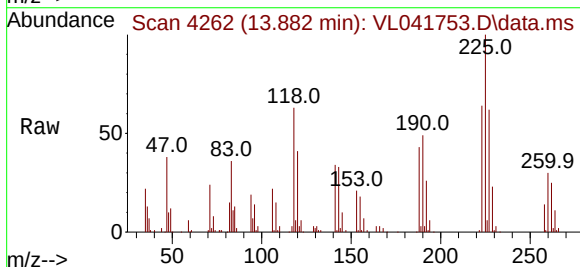
Manual Integrations
APPROVED

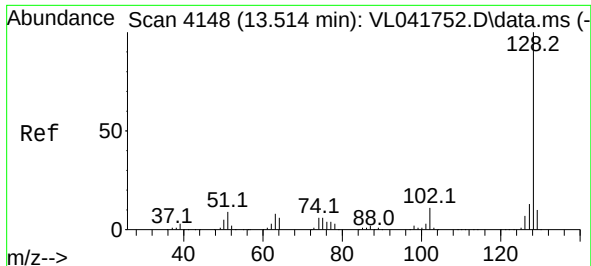
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

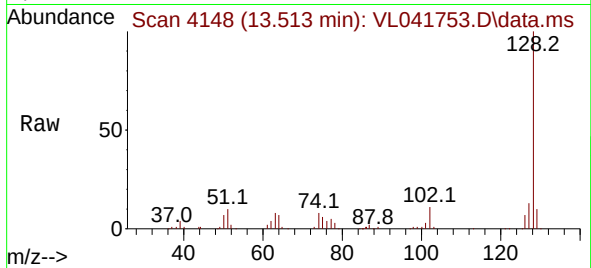
Tgt Ion:225 Resp: 25358
Ion Ratio Lower Upper
225 100
223 64.2 50.5 75.7
227 64.8 50.3 75.5





#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

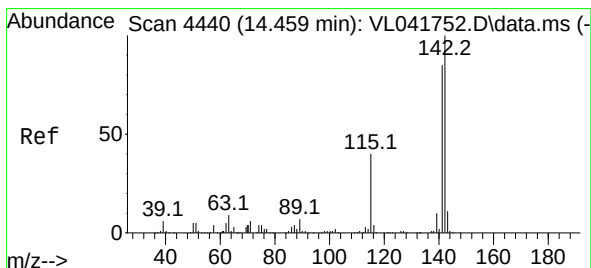
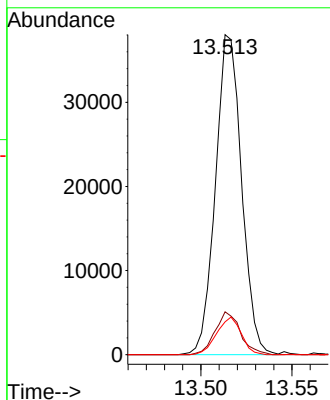
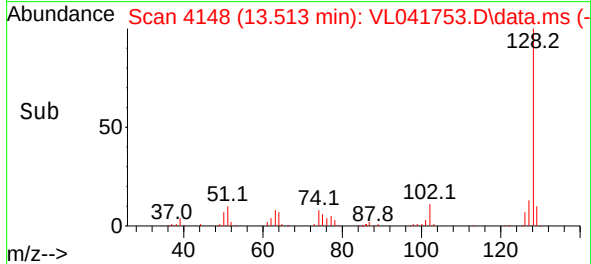
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



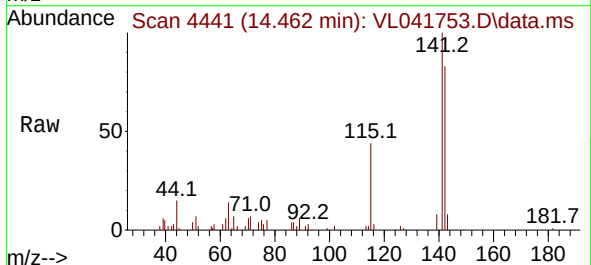
Tgt Ion:128 Resp: 3785
Ion Ratio Lower Upper
128 100
127 13.4 10.7 16.1
129 10.3 8.2 12.4

Manual Integrations
APPROVED

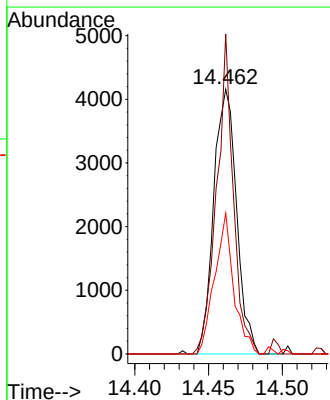
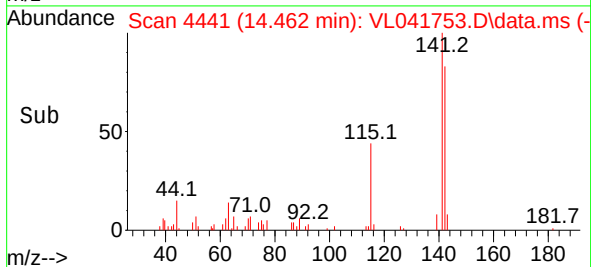
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

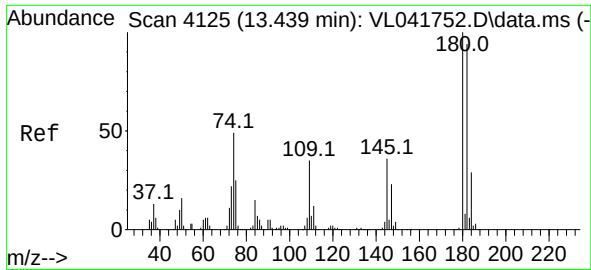


#80
Naphthalene,2-methyl-
Concen: 0.830 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03



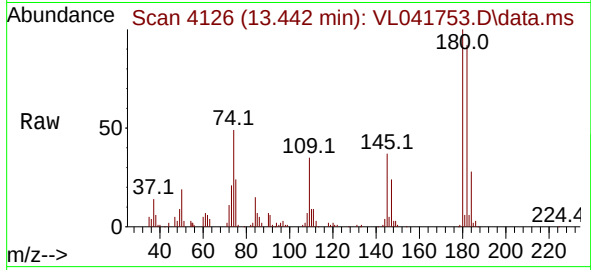
Tgt Ion:142 Resp: 4482
Ion Ratio Lower Upper
142 100
141 90.1 68.4 102.6
115 45.4 32.5 48.7





#81
1,2,4-Trichlorobenzene
Concen: 2.035 ppbv
RT: 13.442 min Scan# 4125
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

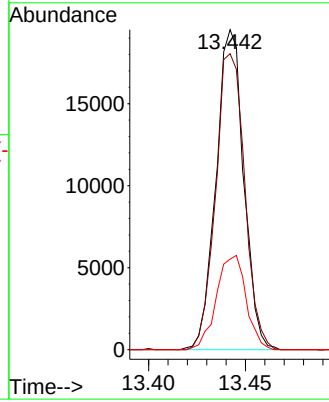
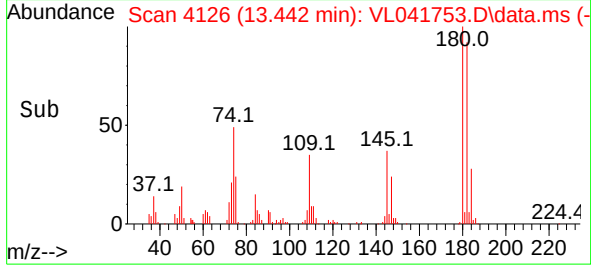
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

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 : 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
 APPROVED

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)

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
 APPROVED

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

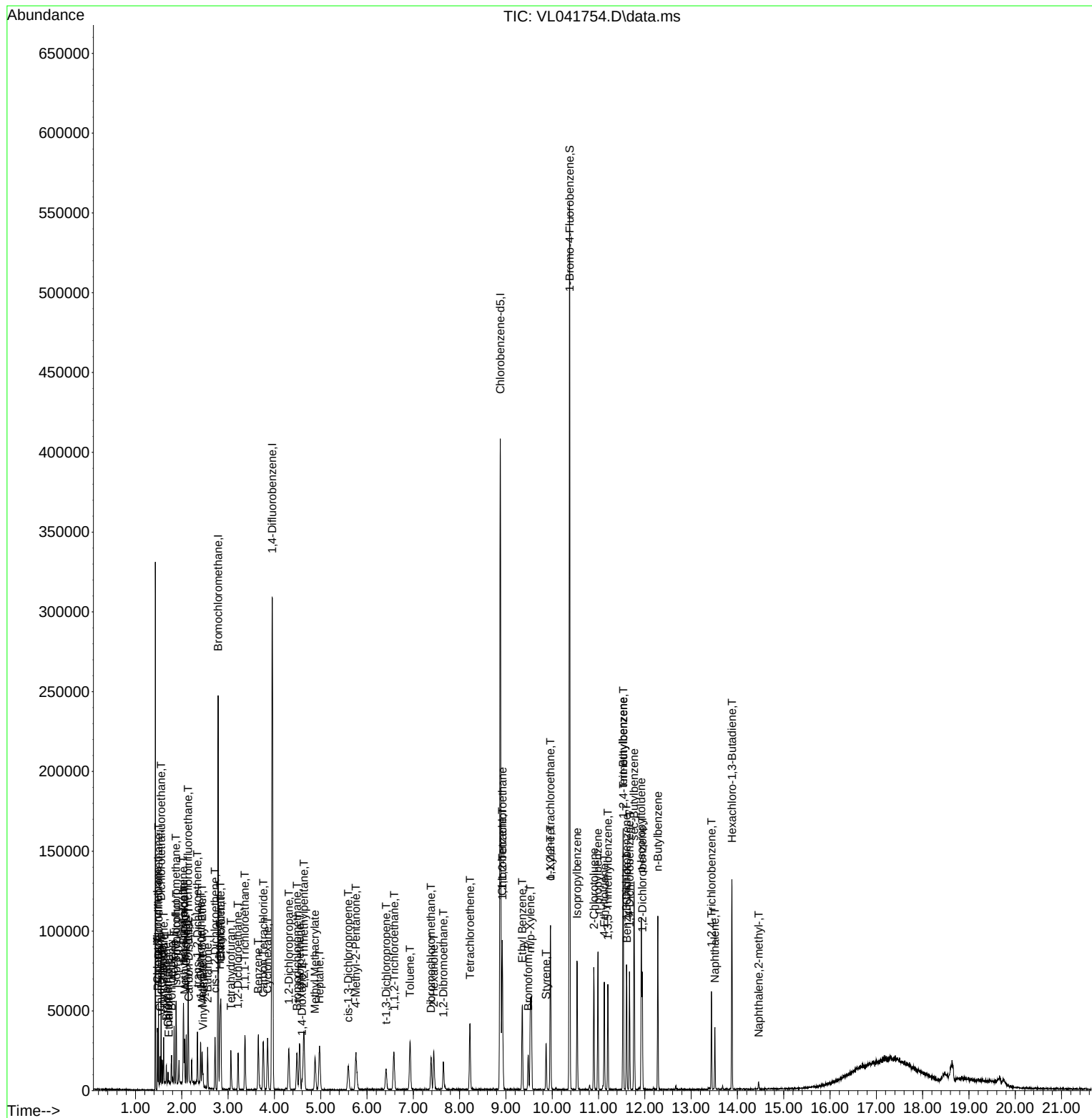
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041754.D
Acq On : 16 Dec 2024 14:34
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

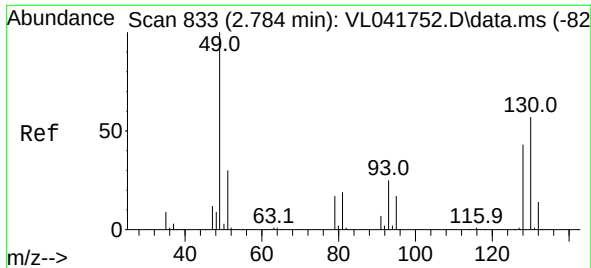
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration





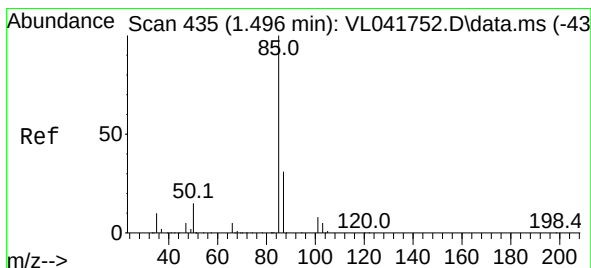
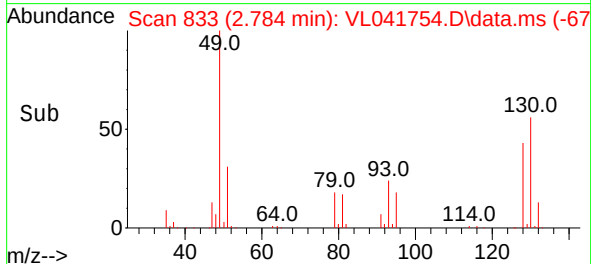
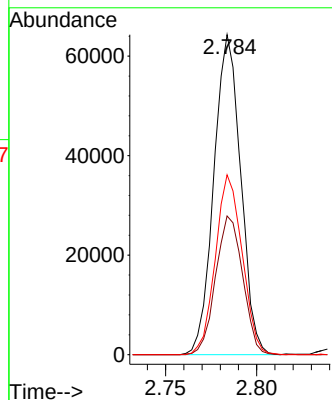
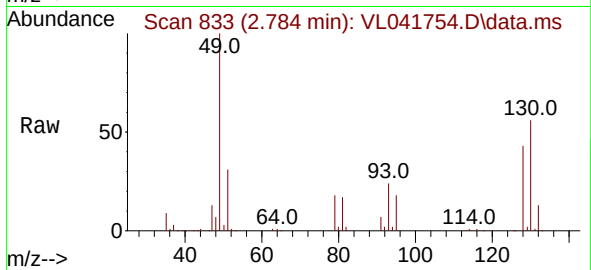
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

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

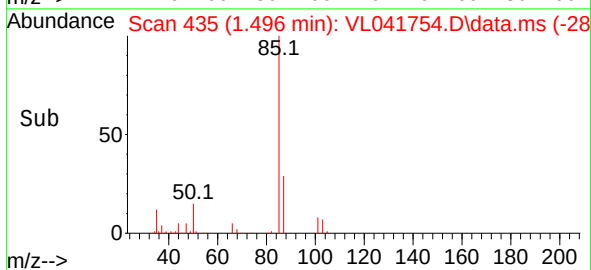
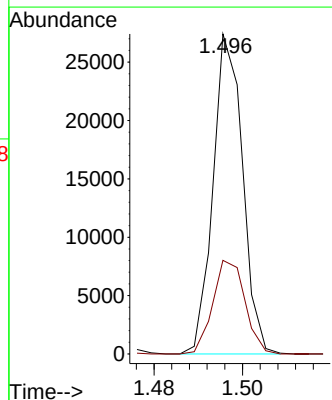
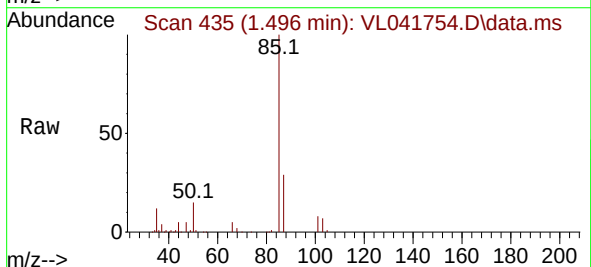
Manual Integrations
APPROVED

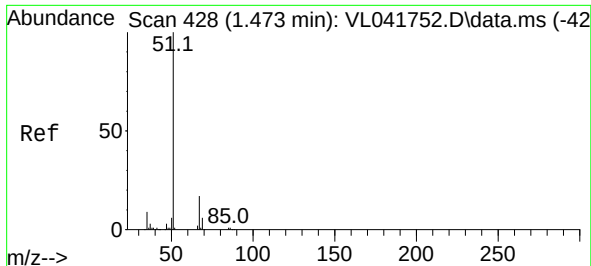
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





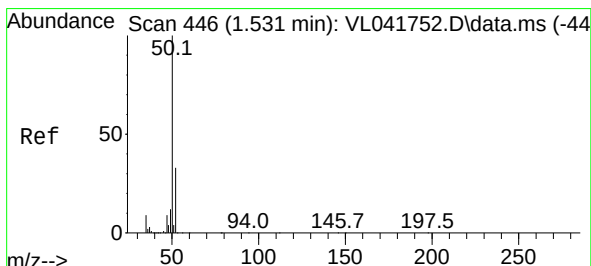
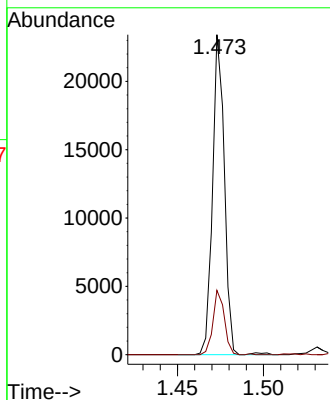
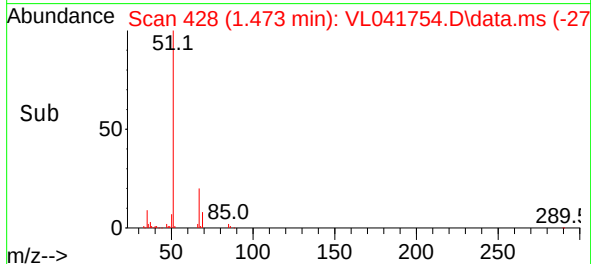
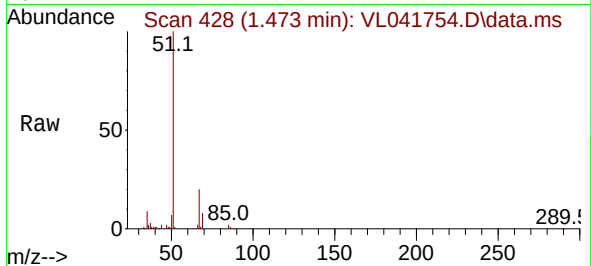
#3
Chlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

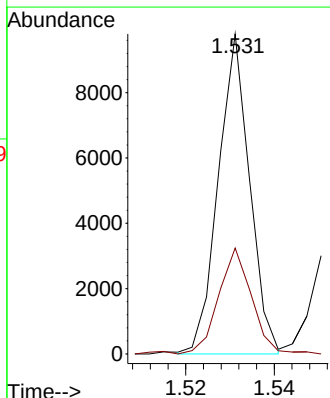
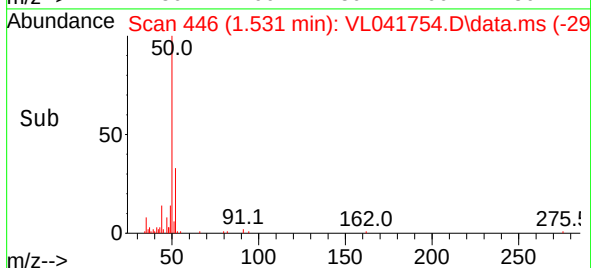
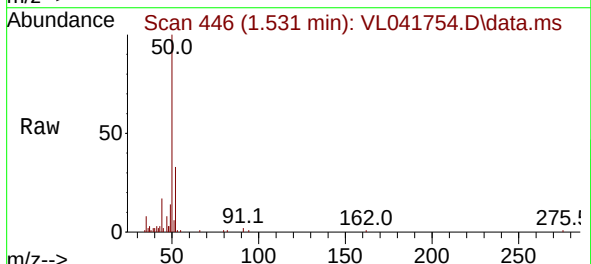
Manual Integrations
APPROVED

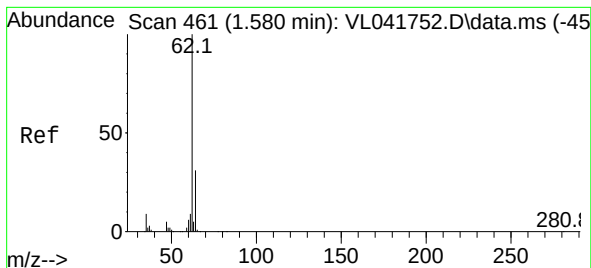
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDICC001

Tgt Ion: 62 Resp: 4580

Ion Ratio Lower Upper

62 100

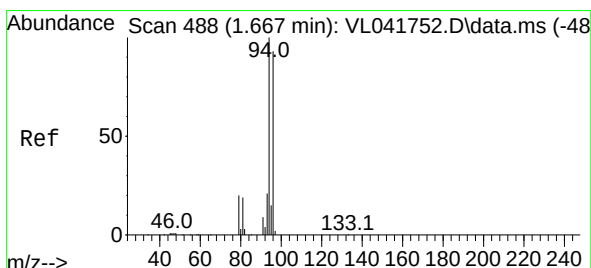
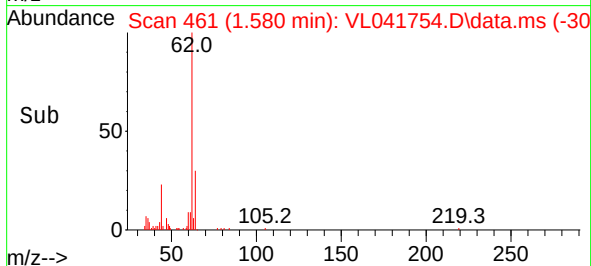
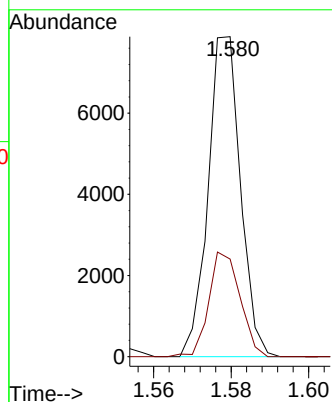
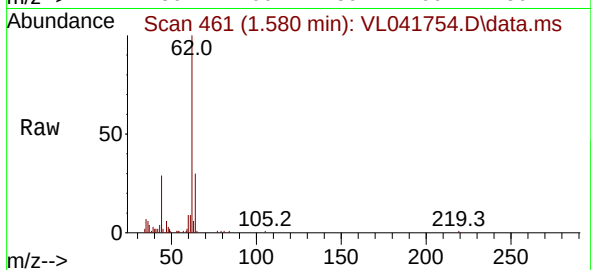
64 30.5 25.1 37.7

Manual Integrations

APPROVED

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

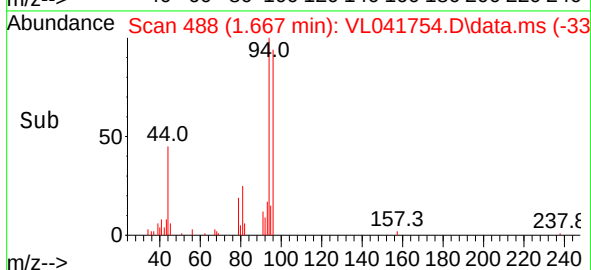
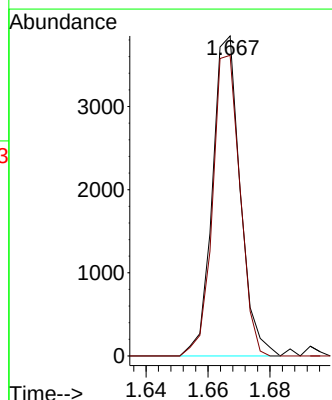
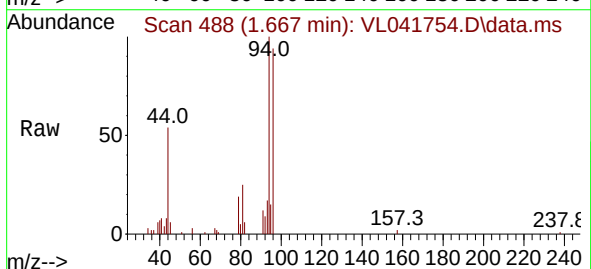
Acq: 16 Dec 2024 14:34

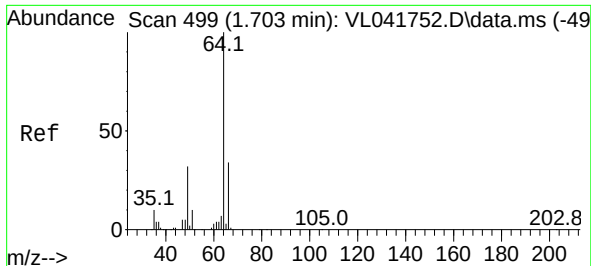
Tgt Ion: 94 Resp: 2394

Ion Ratio Lower Upper

94 100

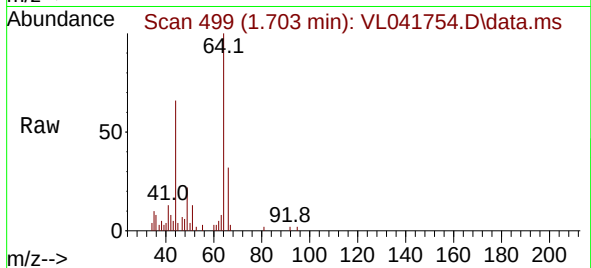
96 94.0 74.7 112.1





#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

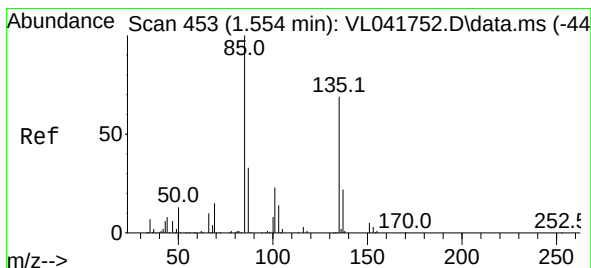
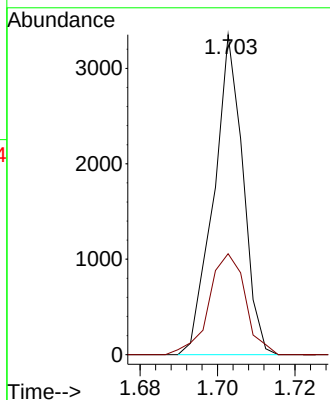
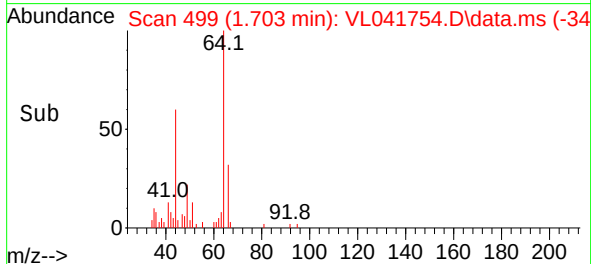
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

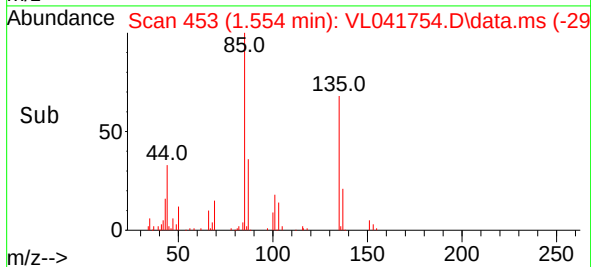
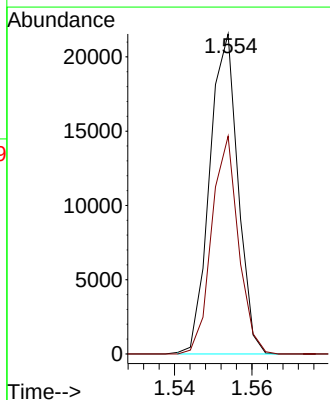
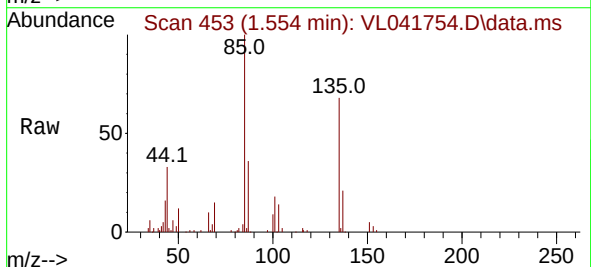
Manual Integrations
APPROVED

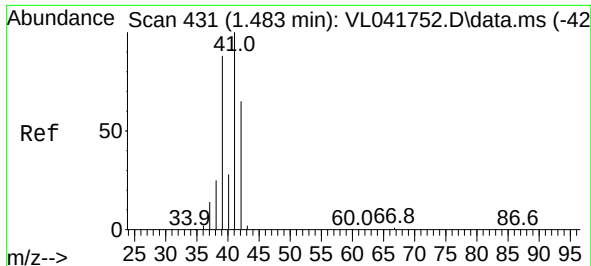
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#8
Dichlorotetrafluoroethane
Concen: 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

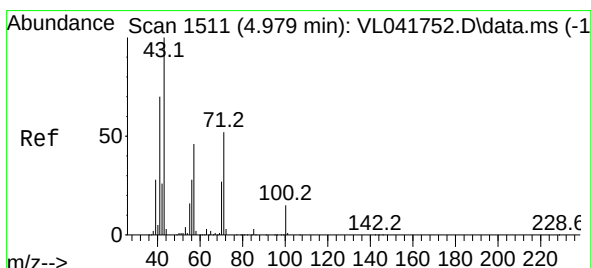
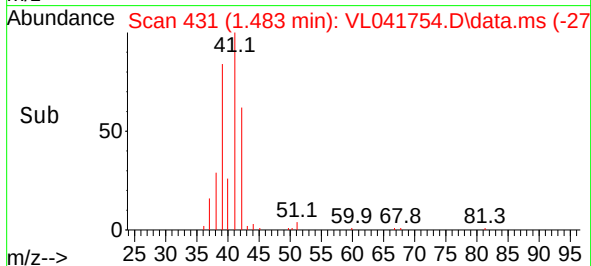
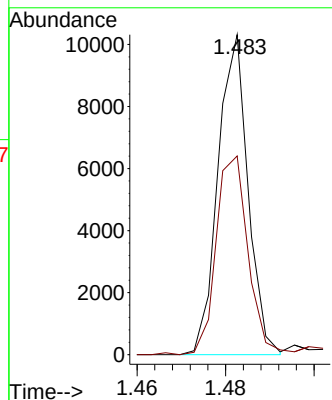
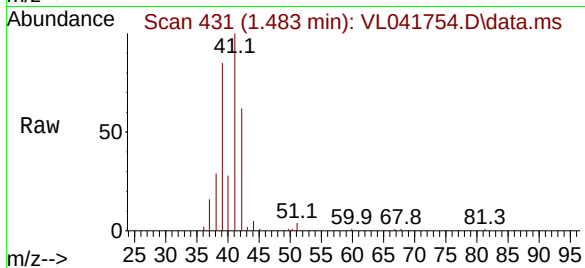
42 70.4 52.4 78.6

Manual Integrations

APPROVED

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

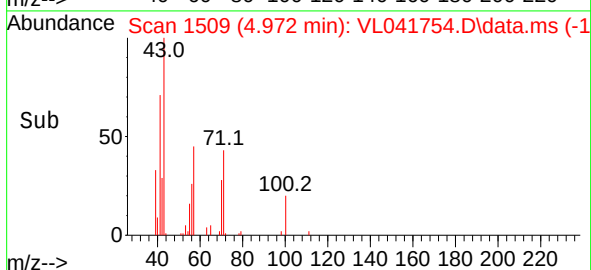
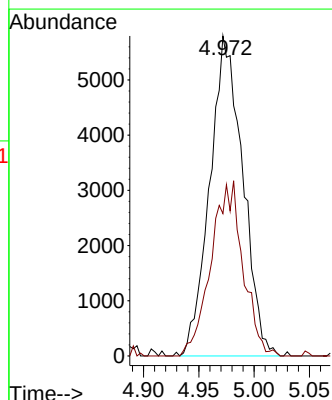
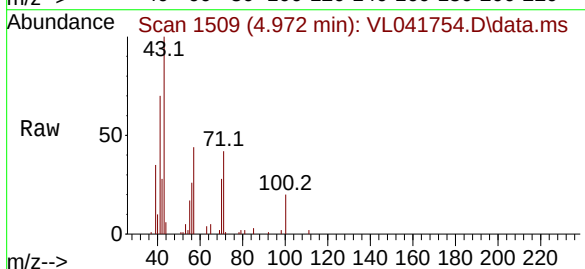
Acq: 16 Dec 2024 14:34

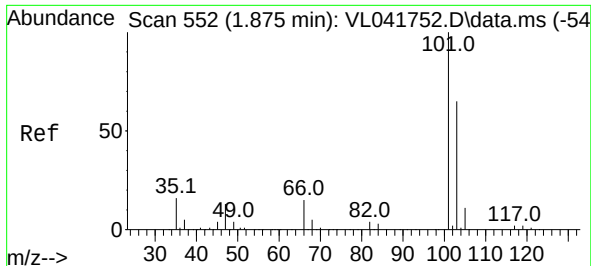
Tgt Ion: 43 Resp: 12004

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

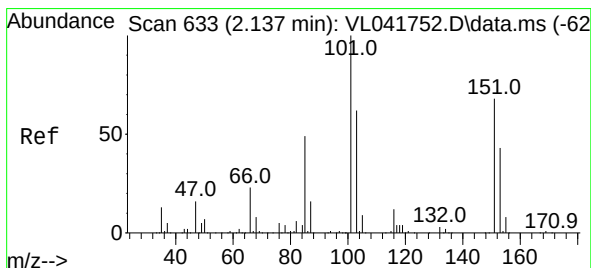
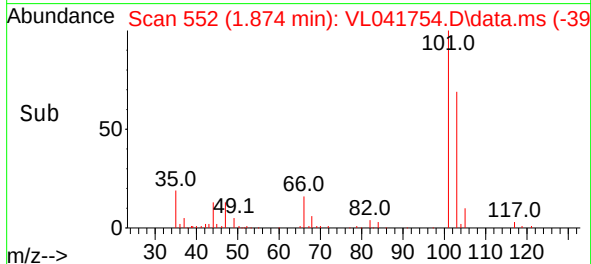
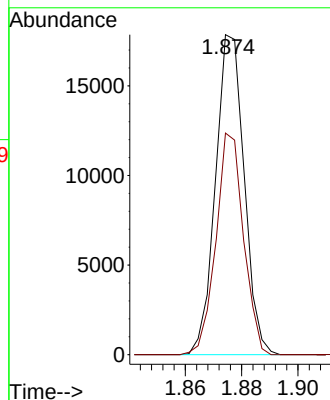
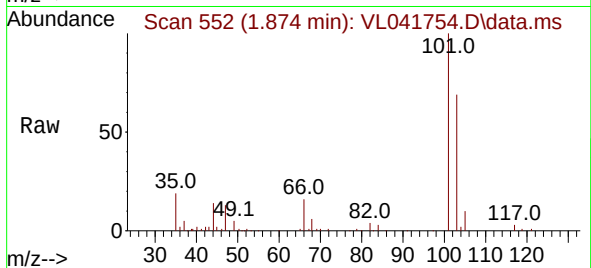
103 69.3 51.8 77.8

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

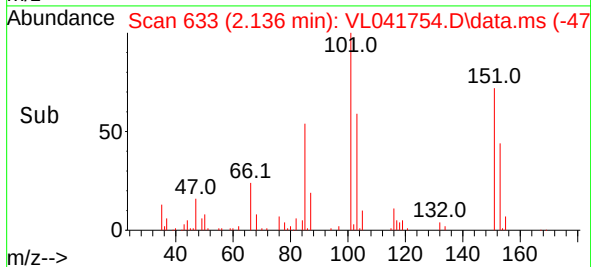
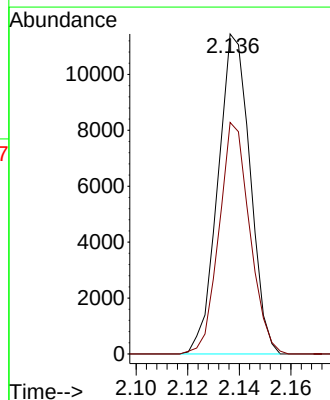
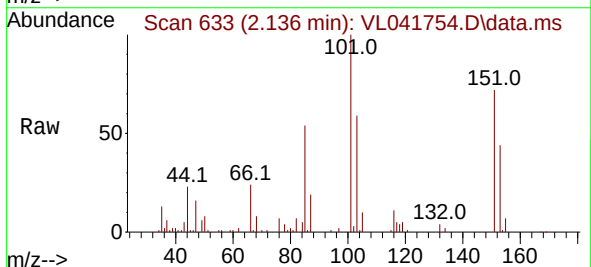
Acq: 16 Dec 2024 14:34

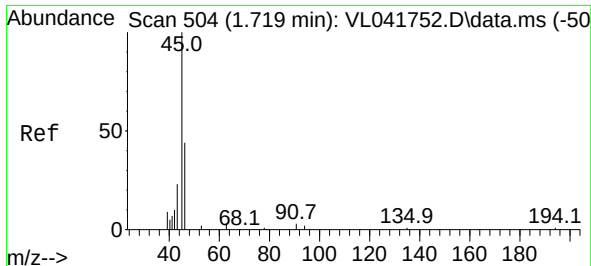
Tgt Ion:101 Resp: 9915

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

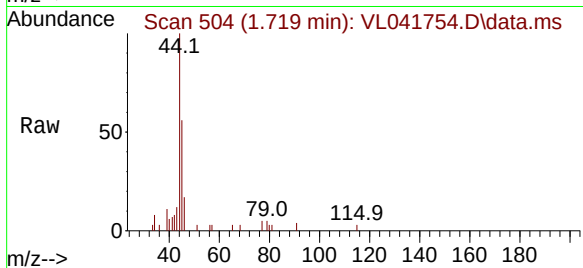
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

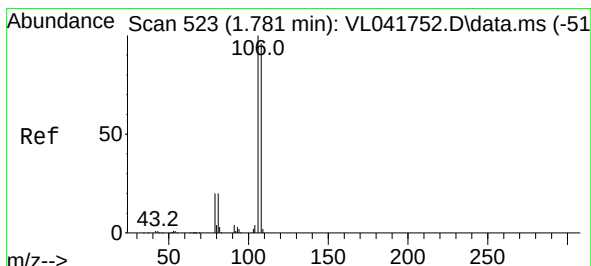
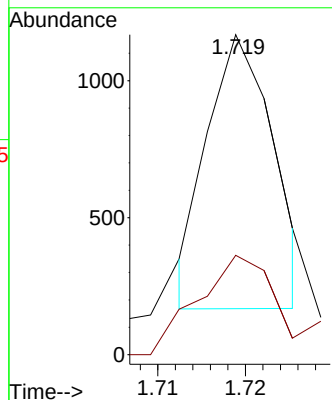
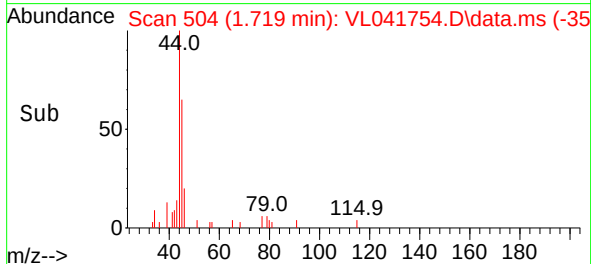
VSTDIC001



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

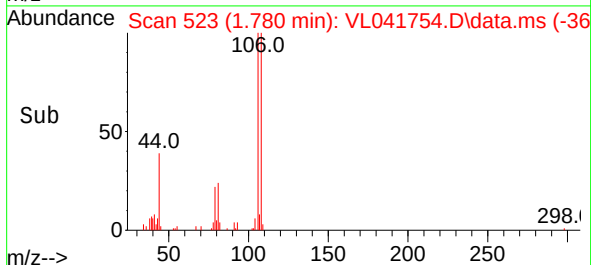
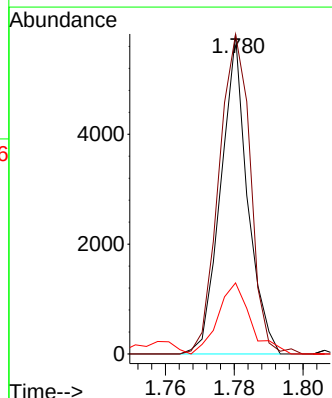
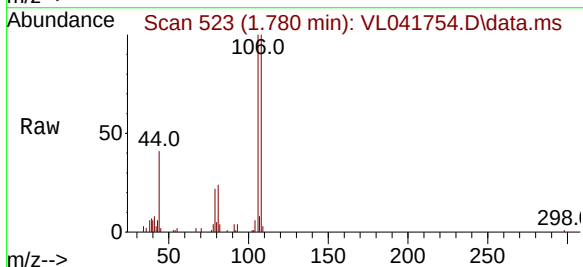
RT: 1.780 min Scan# 523

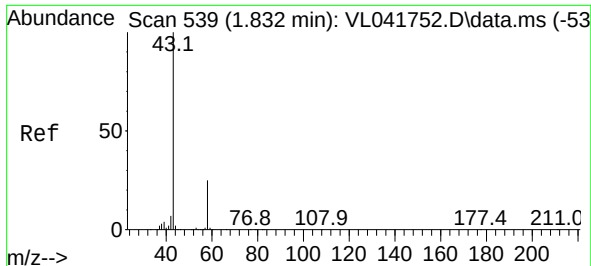
Delta R.T. -0.000 min

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

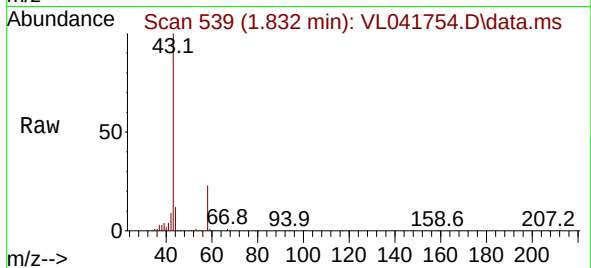
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001



Tgt Ion: 43 Resp: 15060

Ion Ratio Lower Upper

43 100

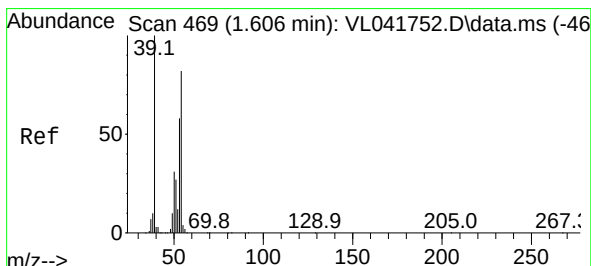
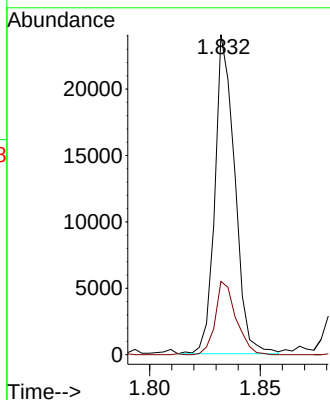
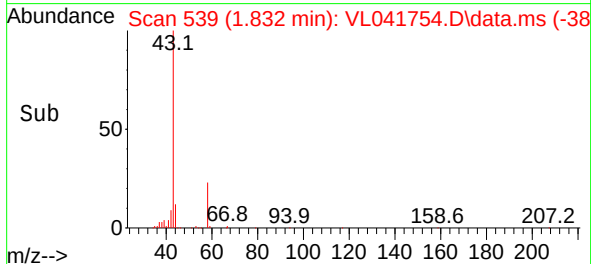
58 24.0 19.7 29.5

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

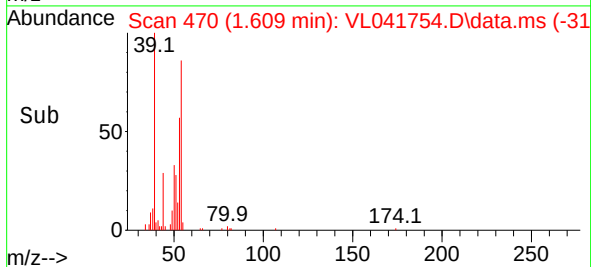
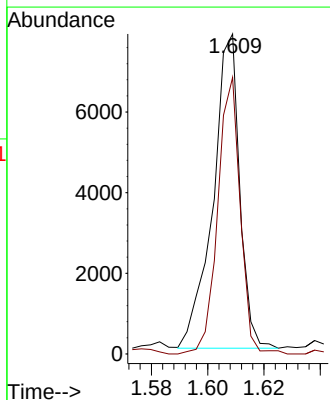
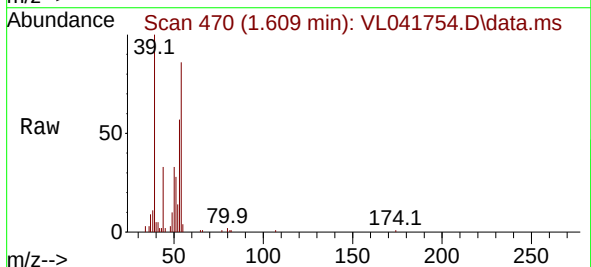
Acq: 16 Dec 2024 14:34

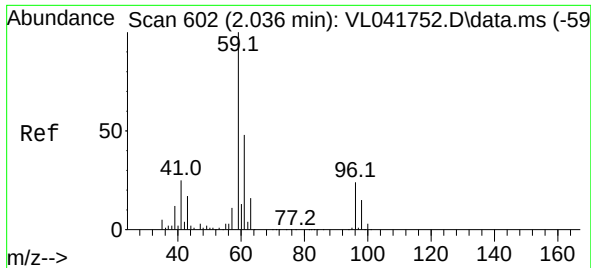
Tgt Ion: 39 Resp: 5137

Ion Ratio Lower Upper

39 100

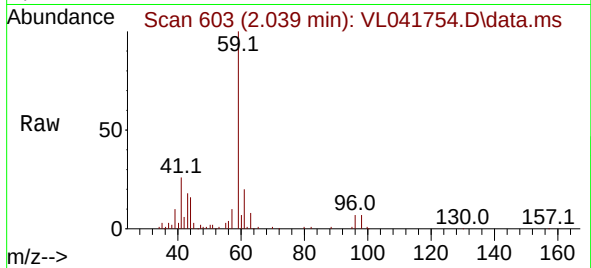
54 77.0 58.4 87.6





#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

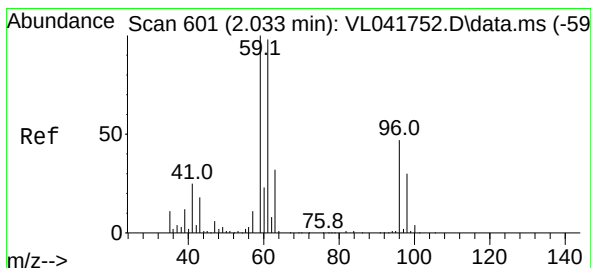
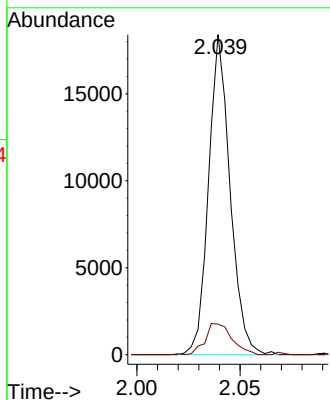
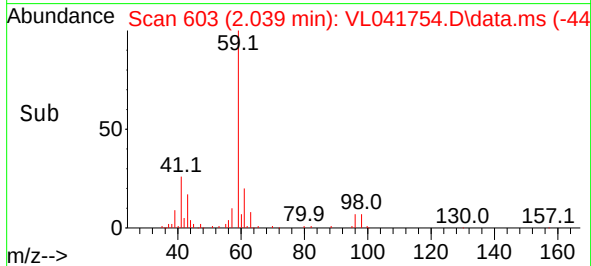
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001



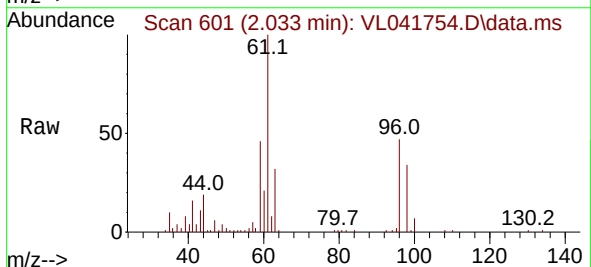
Tgt Ion: 59 Resp: 1334
Ion Ratio Lower Upper
59 100
57 12.4 8.6 13.0

Manual Integrations
APPROVED

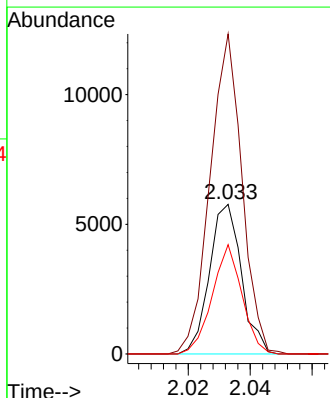
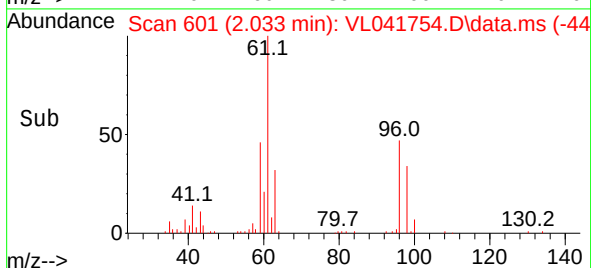
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

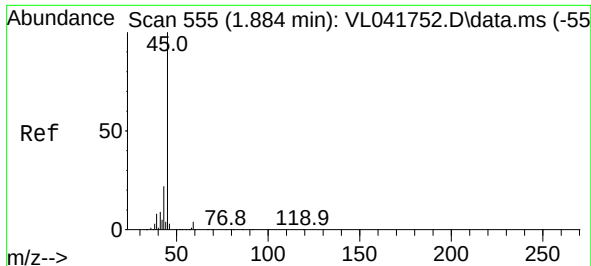


#18
1,1-Dichloroethene
Concen: 1.042 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



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: 8700

Ion Ratio Lower Upper

45 100

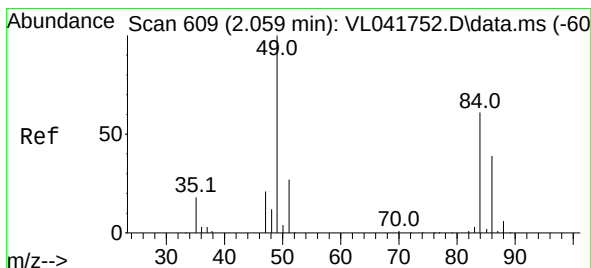
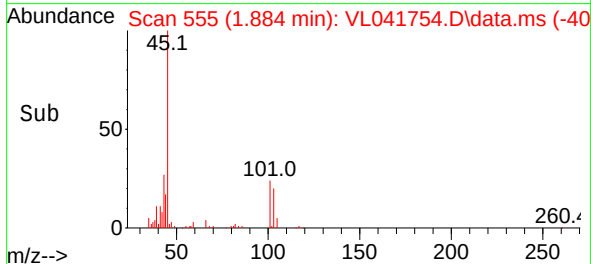
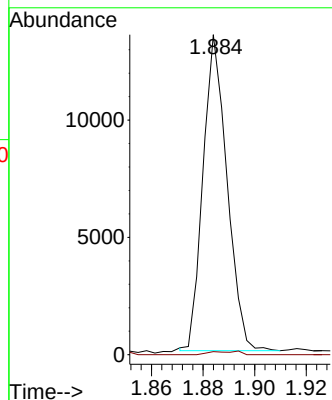
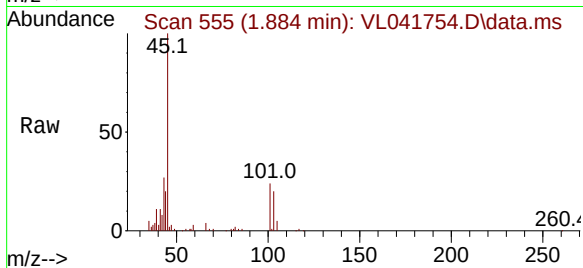
58 41.5 33.3 49.9

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

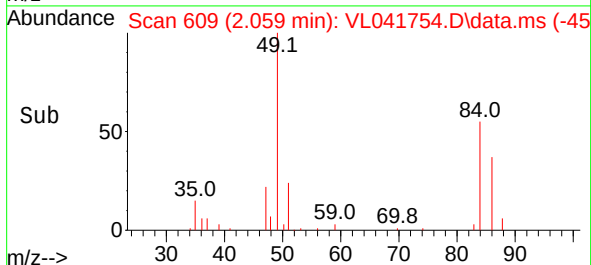
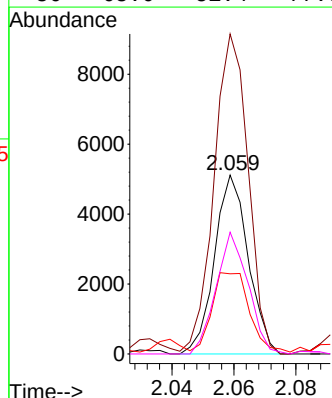
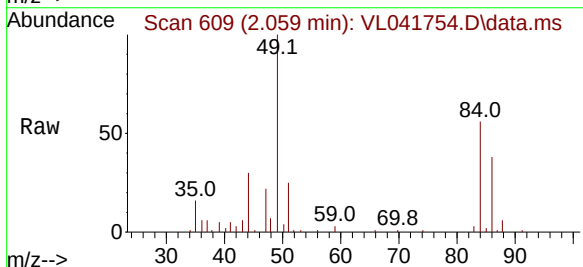
Ion Ratio Lower Upper

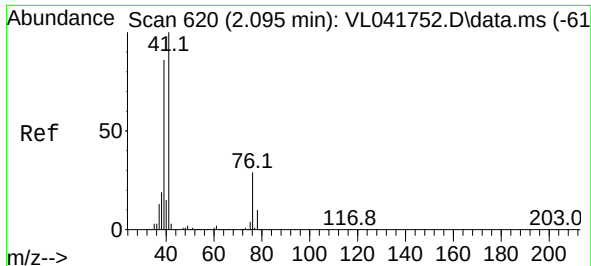
84 100

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 :

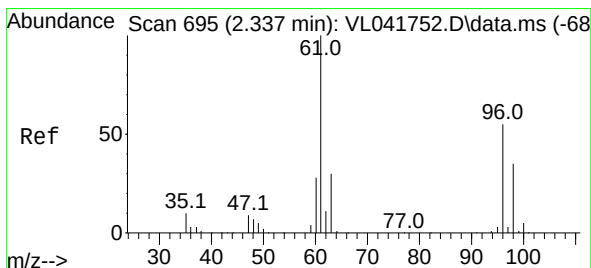
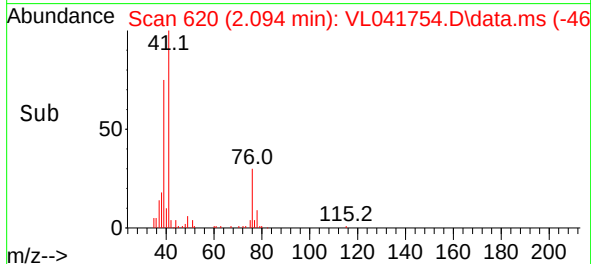
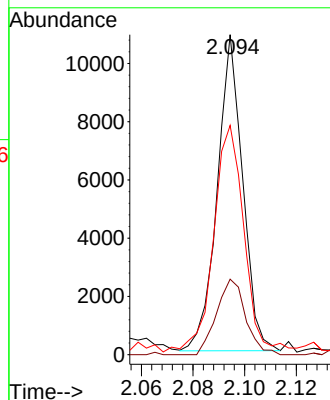
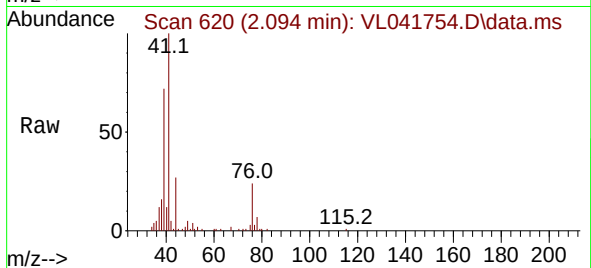
VSTDICC001

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

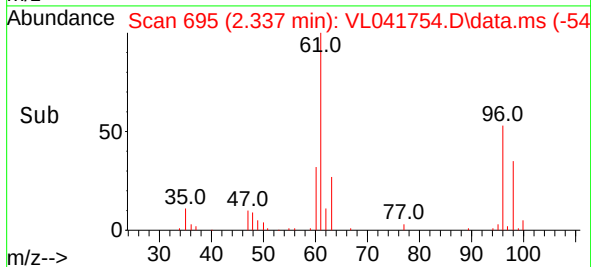
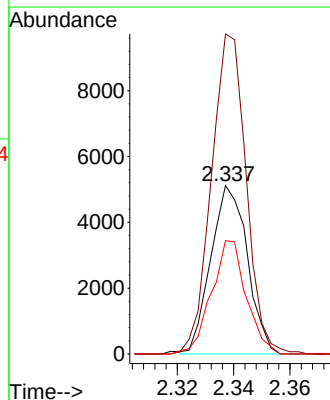
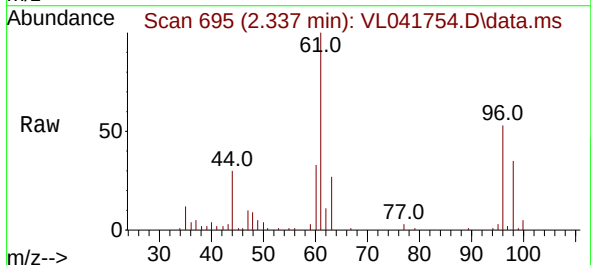
RT: 2.337 min Scan# 695

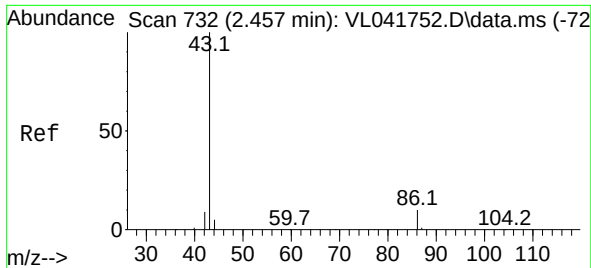
Delta R.T. -0.000 min

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 :

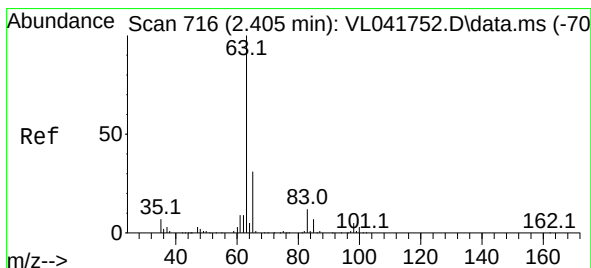
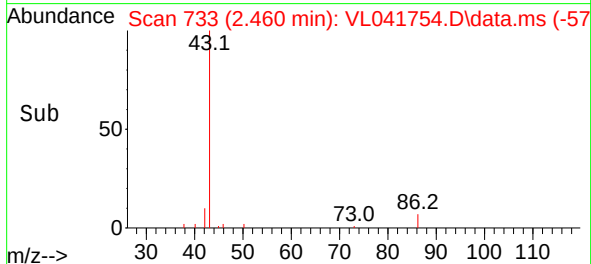
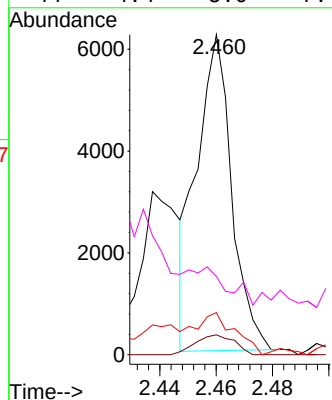
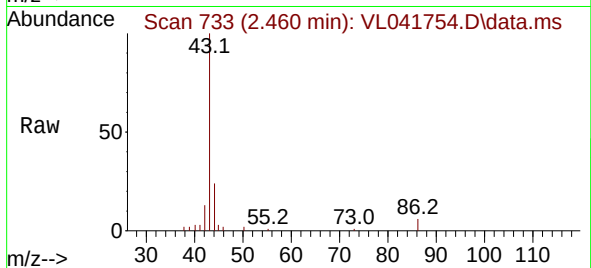
VSTDICC001

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

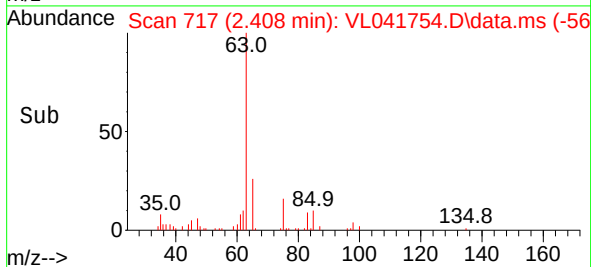
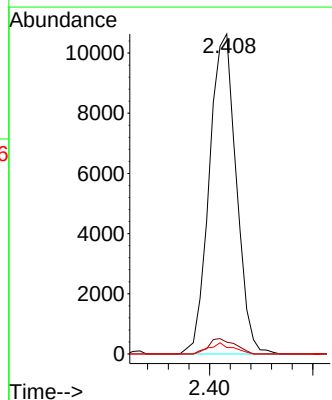
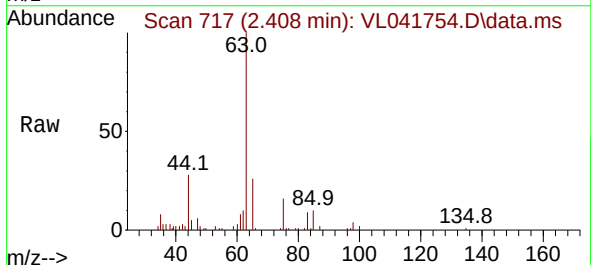
APPROVED

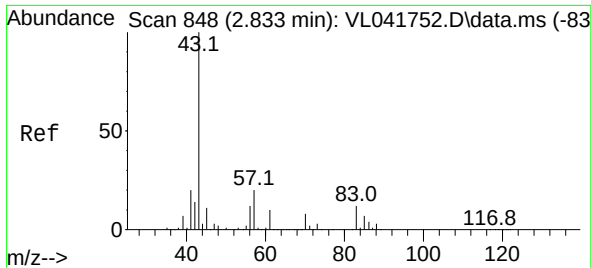
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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





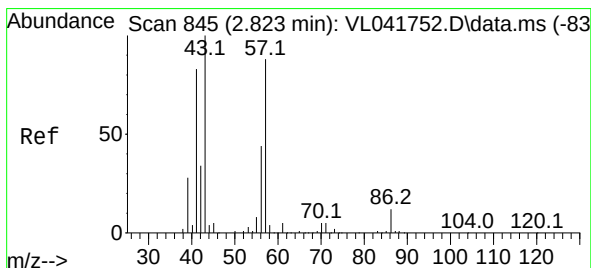
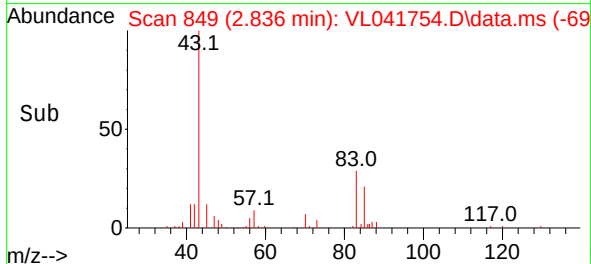
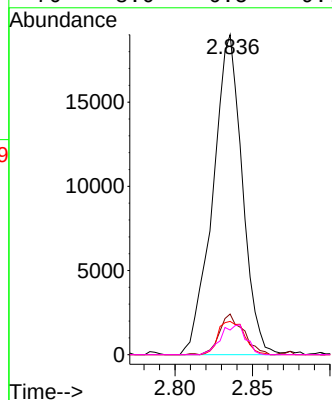
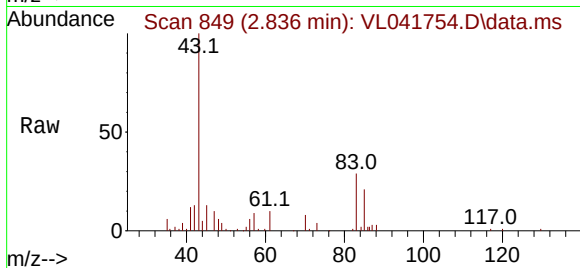
#25
Ethyl Acetate
Concen: 1.049 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

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

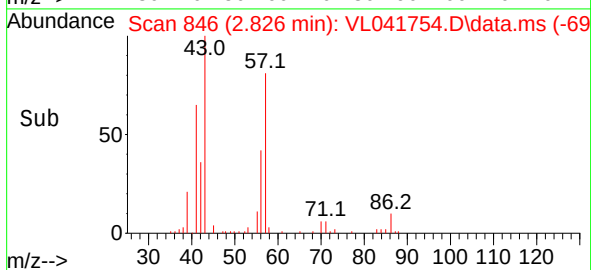
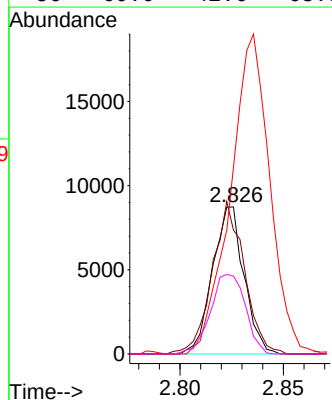
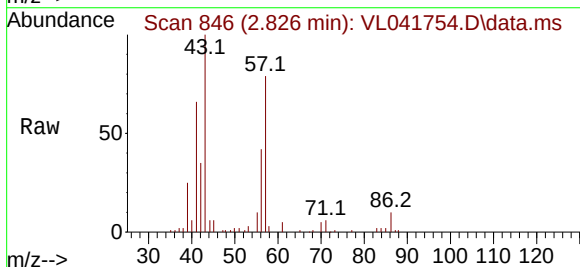
Manual Integrations
APPROVED

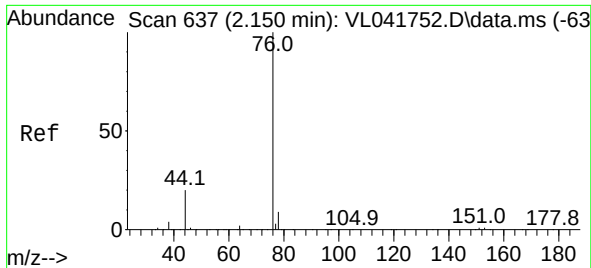
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

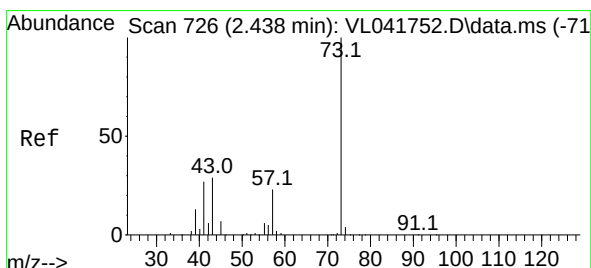
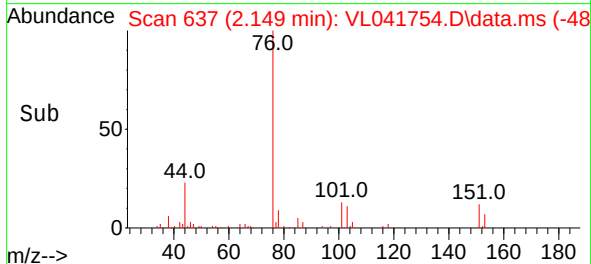
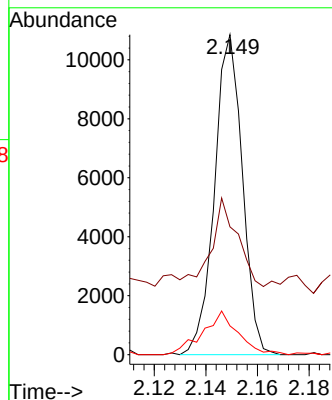
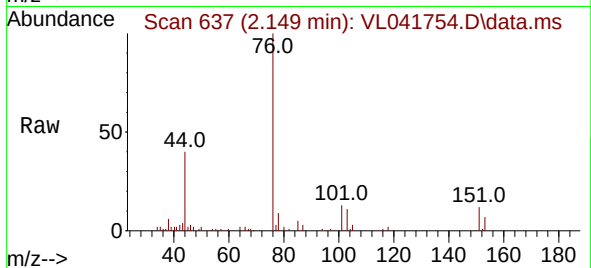
Tgt Ion: 76 Resp: 815

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

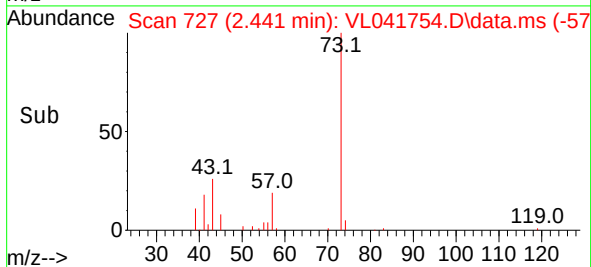
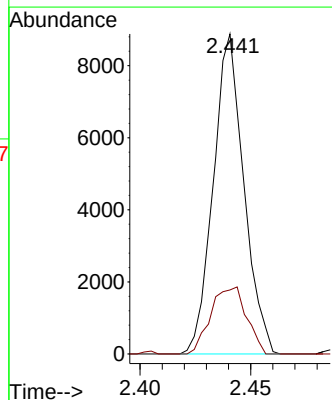
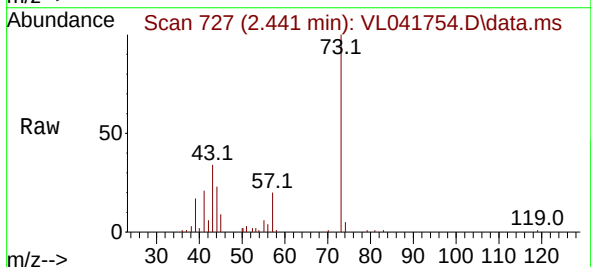
Delta R.T. 0.003 min

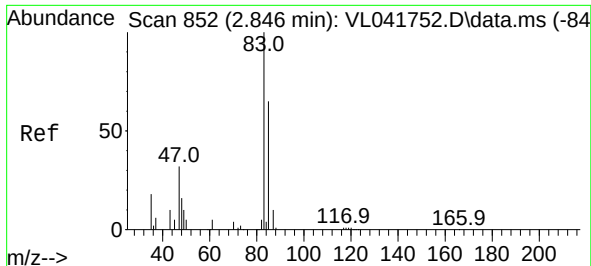
Lab File: VL041754.D

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

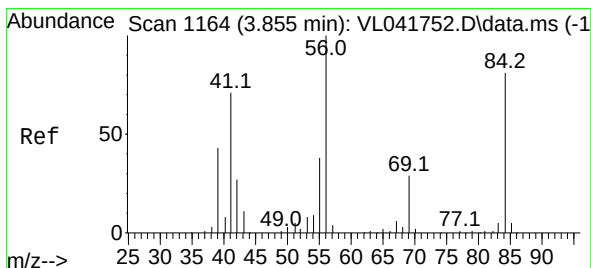
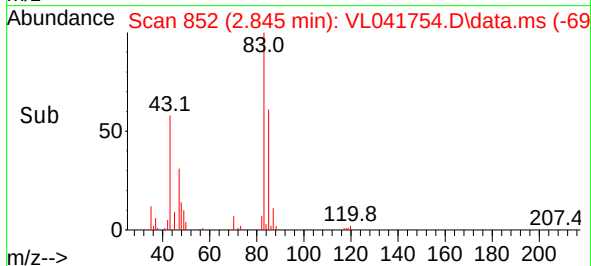
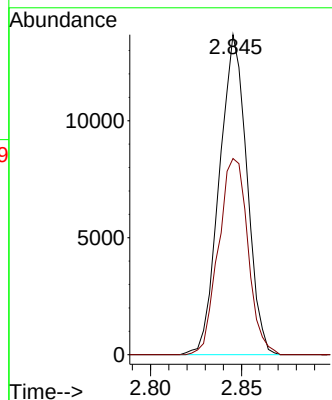
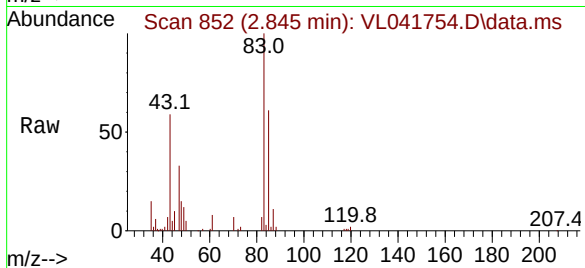
85 61.3 51.8 77.6

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

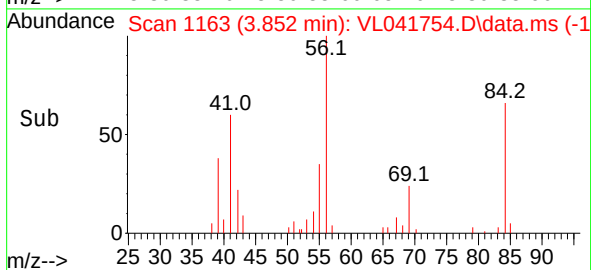
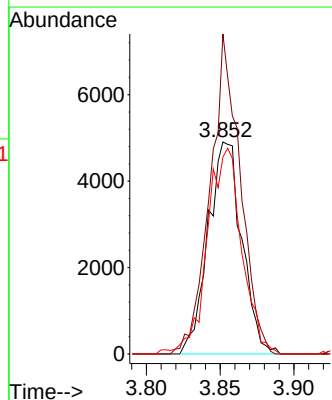
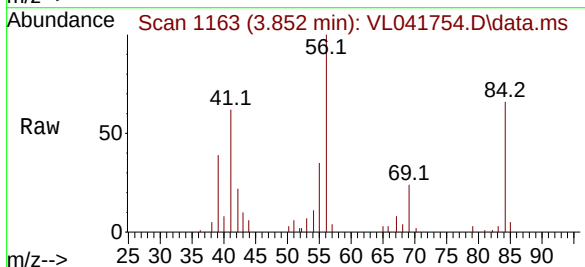
Tgt Ion: 84 Resp: 7824

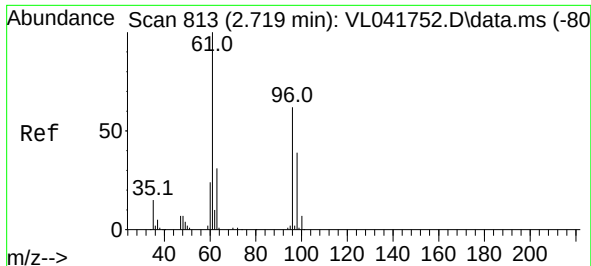
Ion Ratio Lower Upper

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

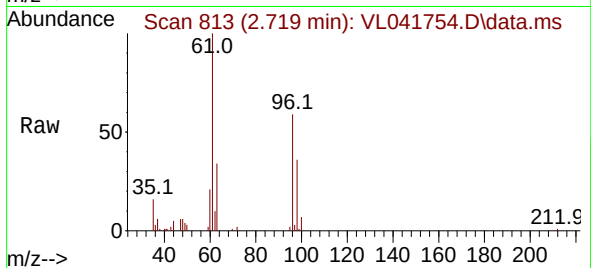
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



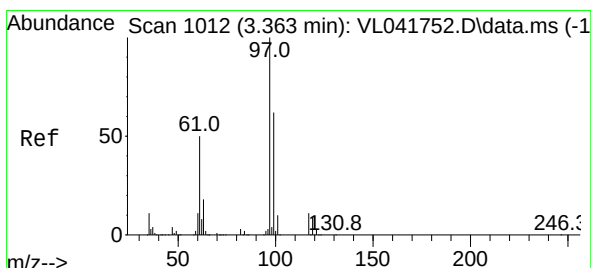
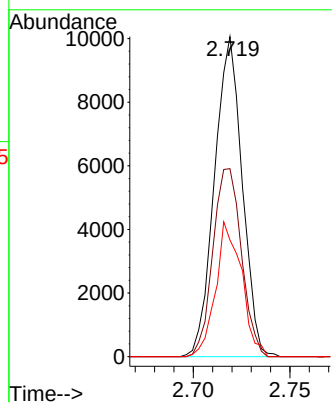
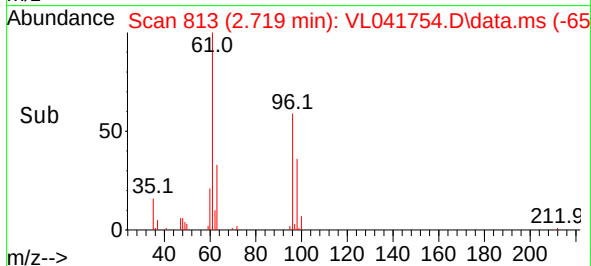
Tgt Ion: 61 Resp: 1001

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

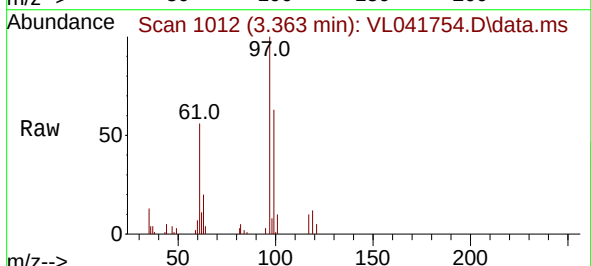
Concen: 1.049 ppbv

RT: 3.363 min Scan# 1012

Delta R.T. -0.000 min

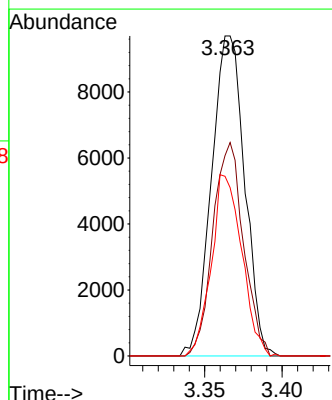
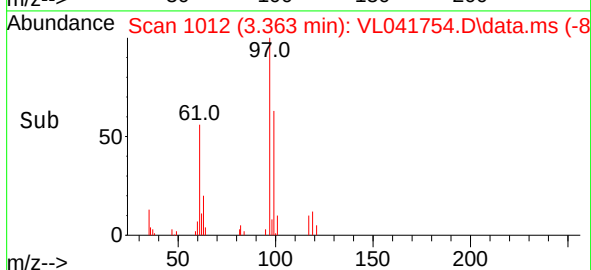
Lab File: VL041754.D

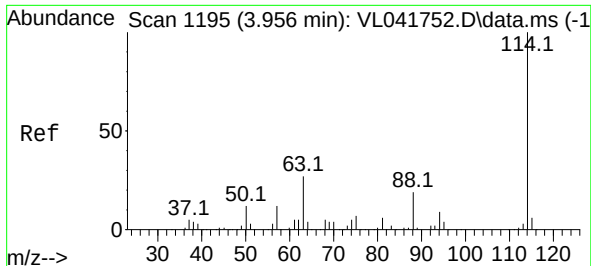
Acq: 16 Dec 2024 14:34



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 :

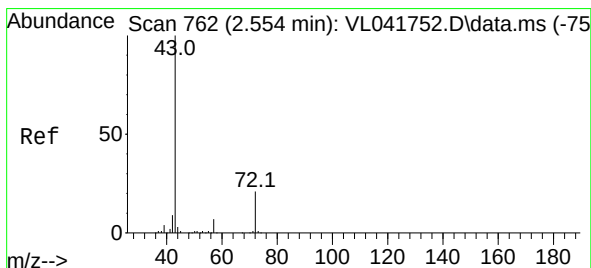
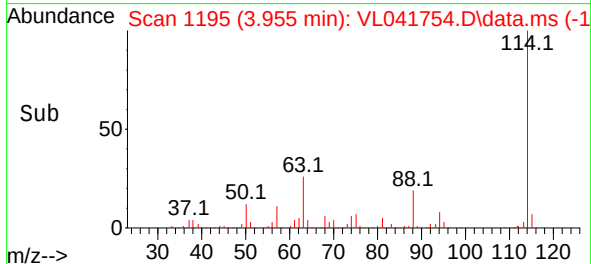
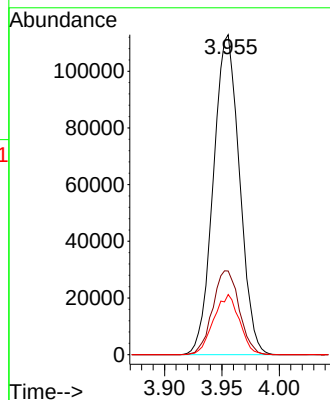
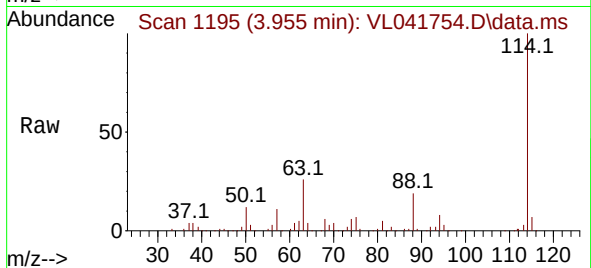
VSTDICC001

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

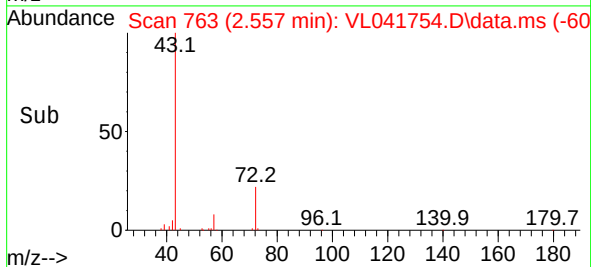
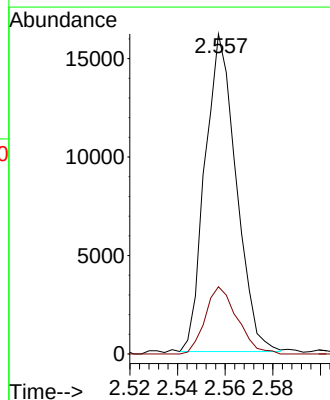
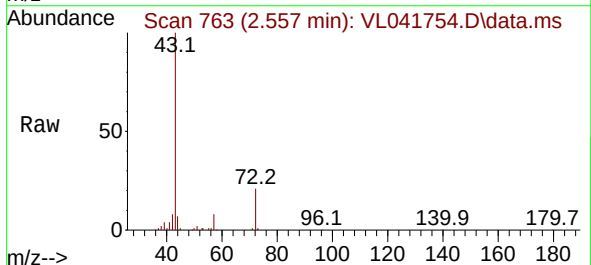
RT: 2.557 min Scan# 763

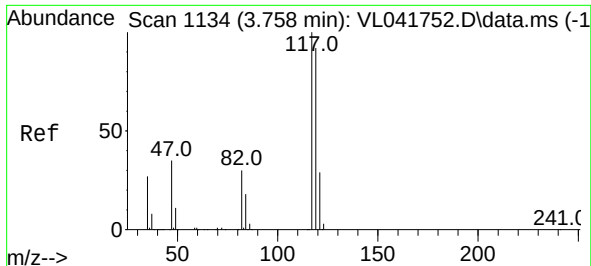
Delta R.T. 0.003 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

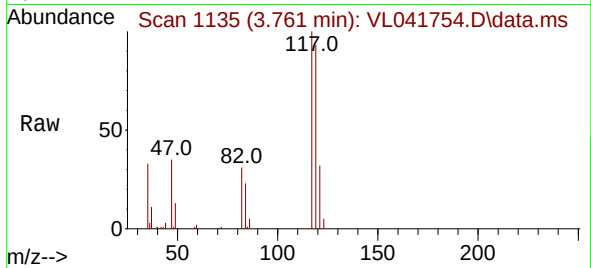
Tgt Ion: 43 Resp: 14673
 Ion Ratio Lower Upper
 43 100
 72 21.7 16.8 25.2





#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

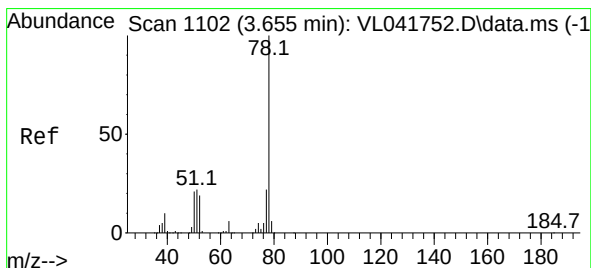
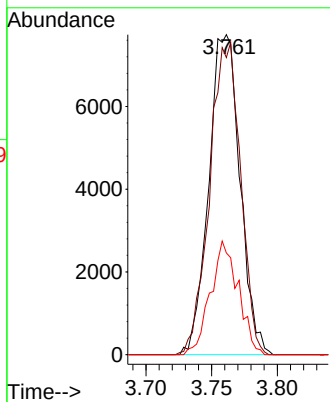
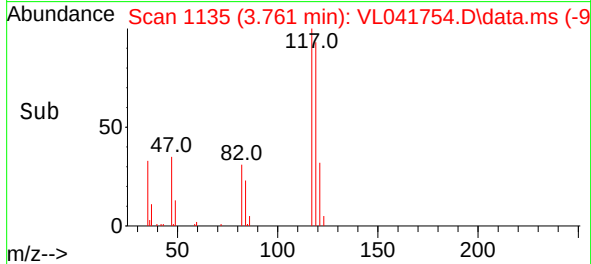
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

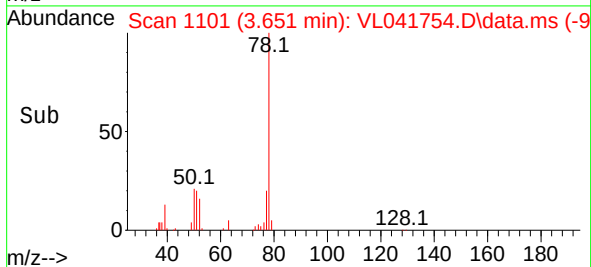
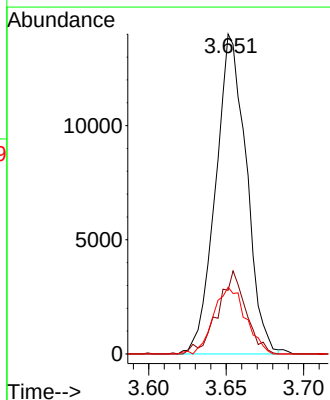
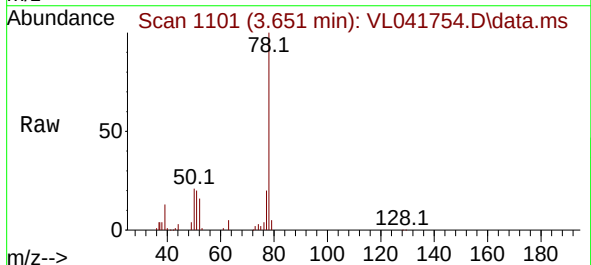
Manual Integrations
APPROVED

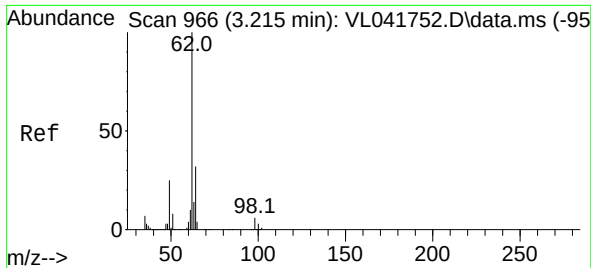
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





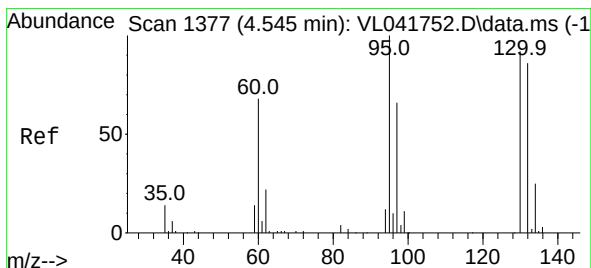
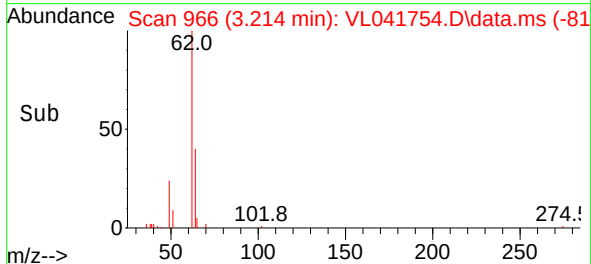
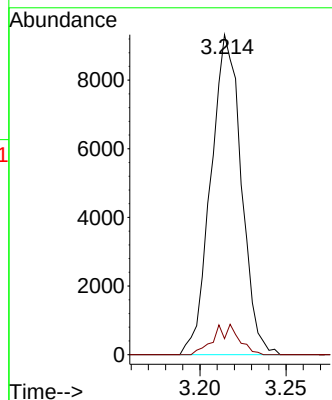
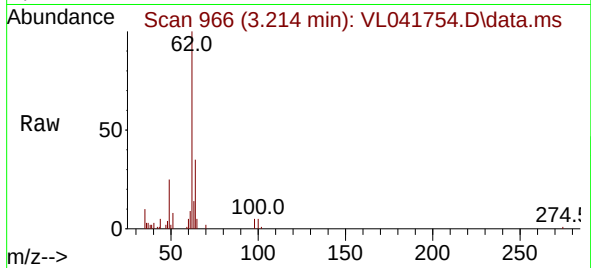
#37
1,2-Dichloroethane
Concen: 0.998 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

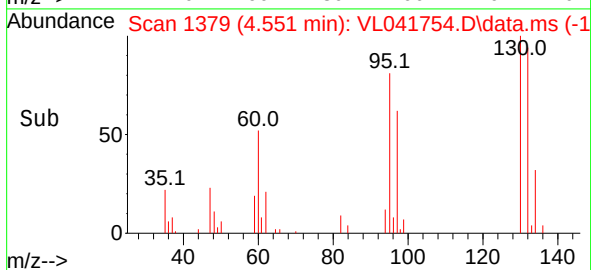
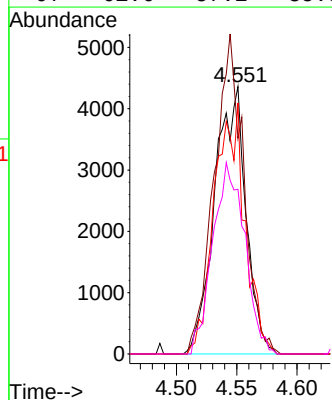
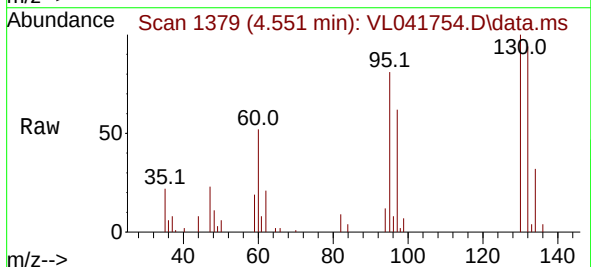
Manual Integrations
APPROVED

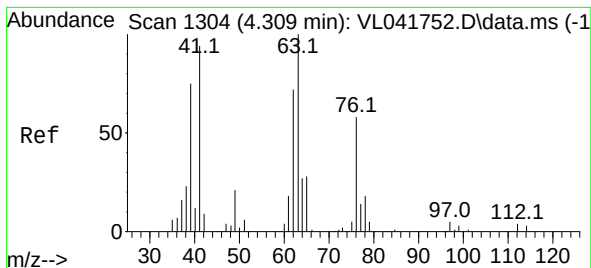
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

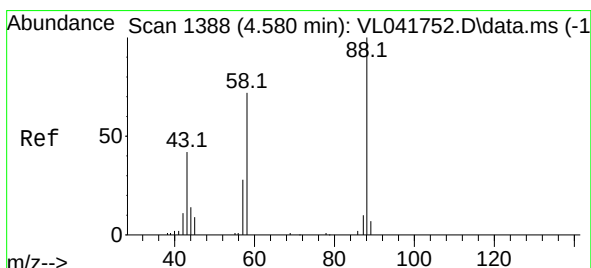
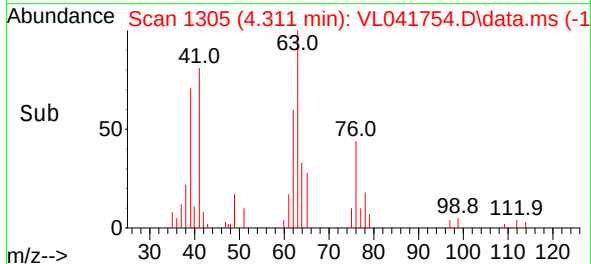
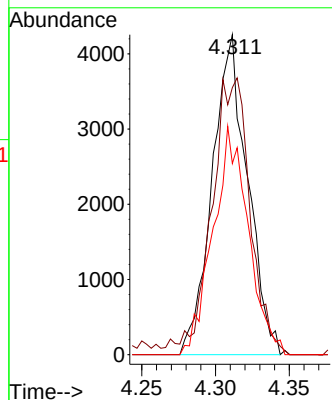
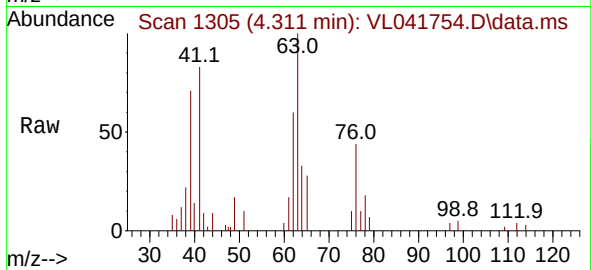
Tgt Ion: 63 Resp: 7068

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

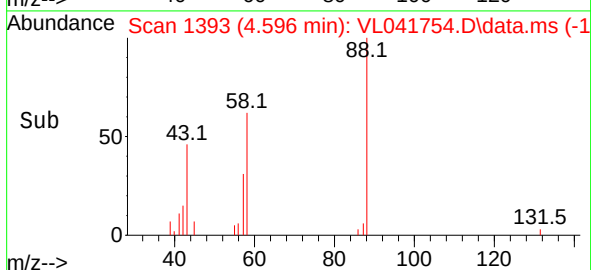
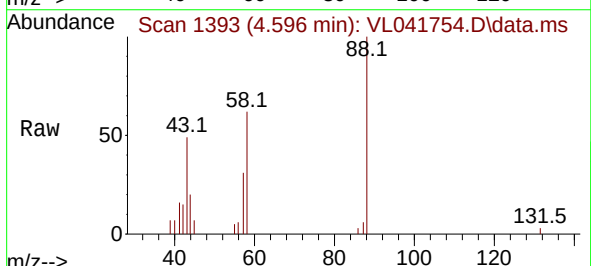
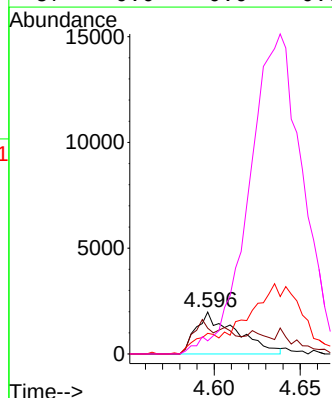
Delta R.T. 0.016 min

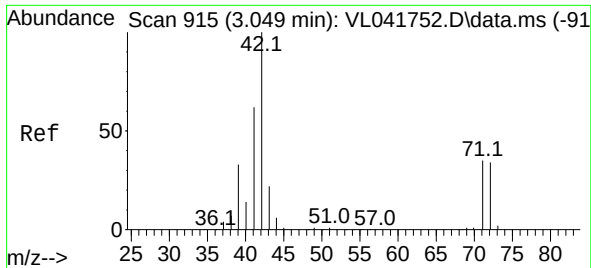
Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 88 Resp: 3241

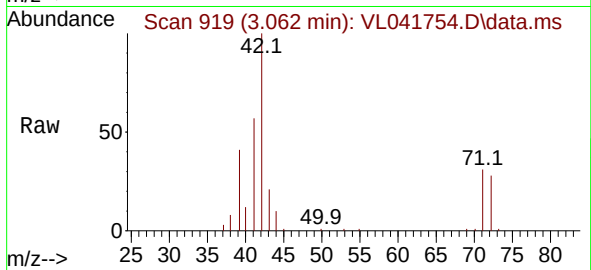
Ion	Ratio	Lower	Upper
88	100		
58	127.2	61.0	91.6#
43	0.0	29.4	44.0#
57	0.0	0.0	0.0





#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

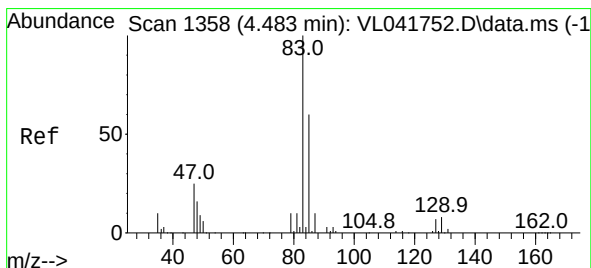
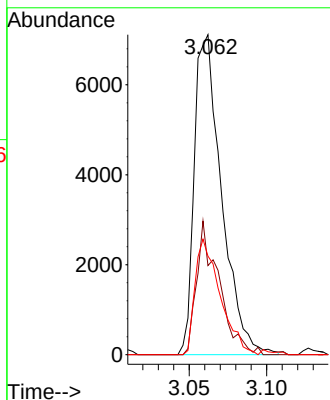
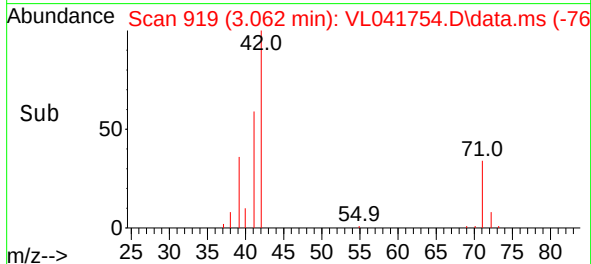
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



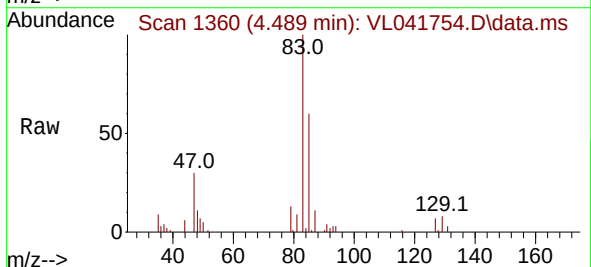
Tgt Ion: 42 Resp: 872
Ion Ratio Lower Upper
42 100
72 34.4 29.1 43.7
71 34.0 28.4 42.6

Manual Integrations
APPROVED

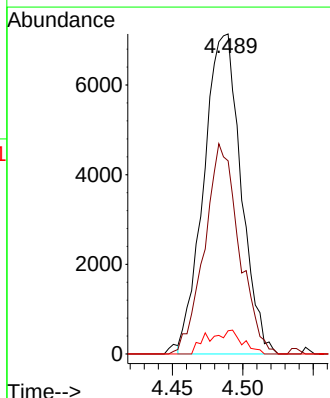
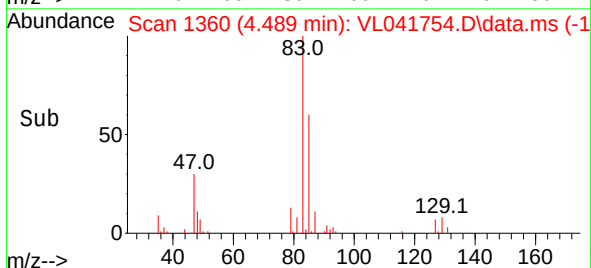
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

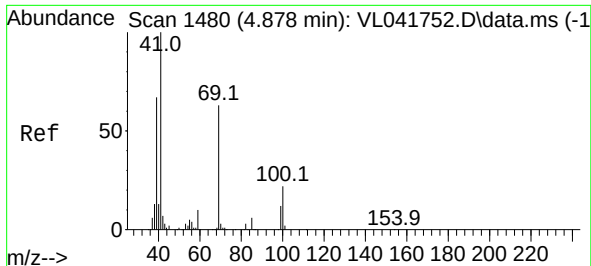


#42
Bromodichloromethane
Concen: 0.993 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



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# 1479

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

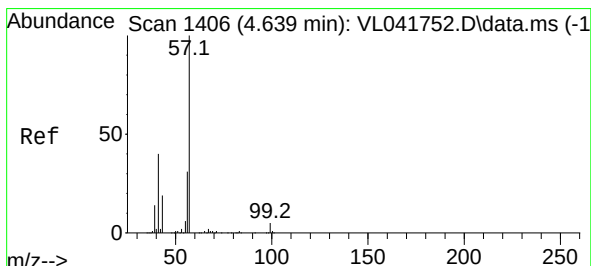
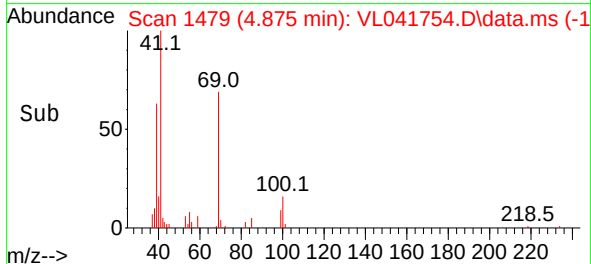
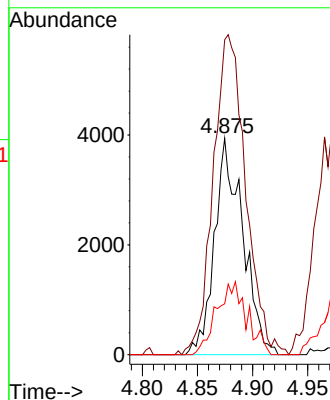
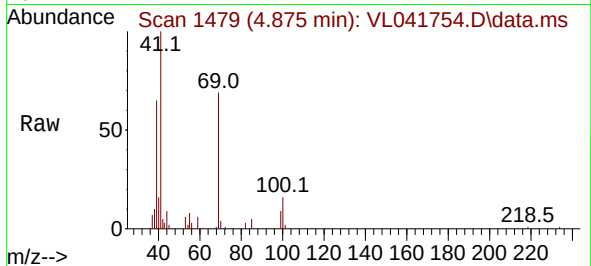
Tgt Ion: 69 Resp: 7044

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

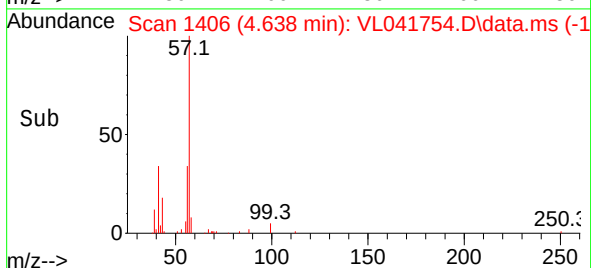
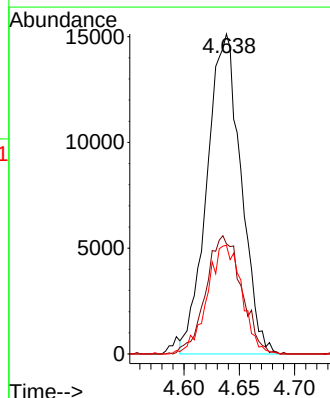
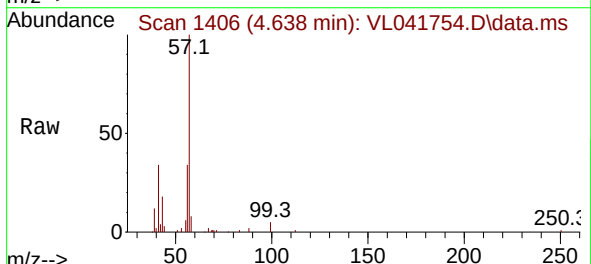
Delta R.T. -0.000 min

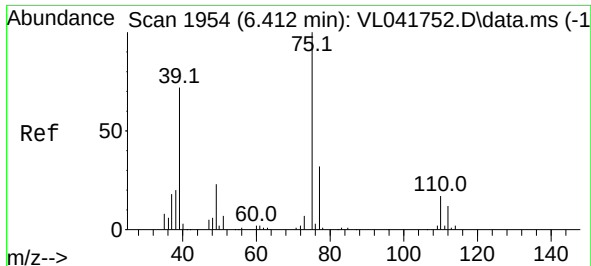
Lab File: VL041754.D

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





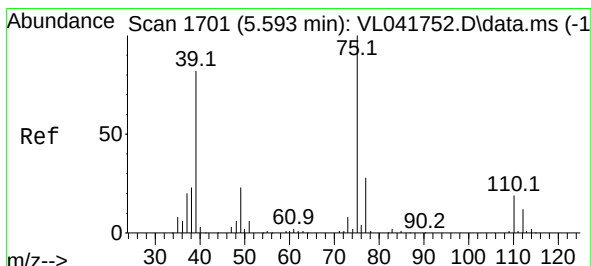
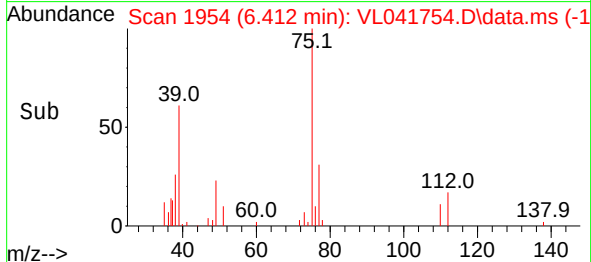
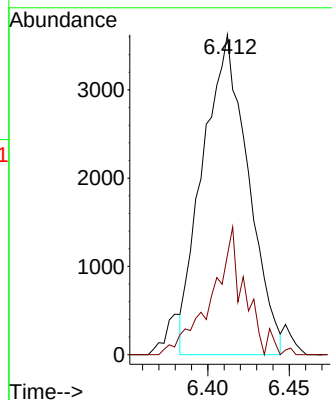
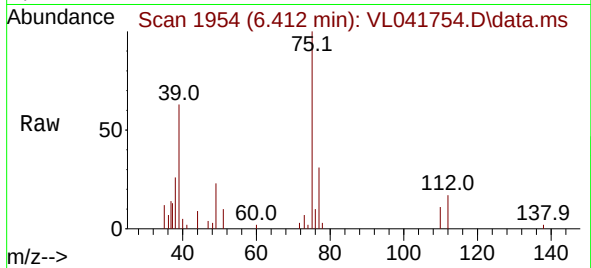
#45
t-1,3-Dichloropropene
Concen: 0.963 ppbv
RT: 6.412 min Scan# 1954
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

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

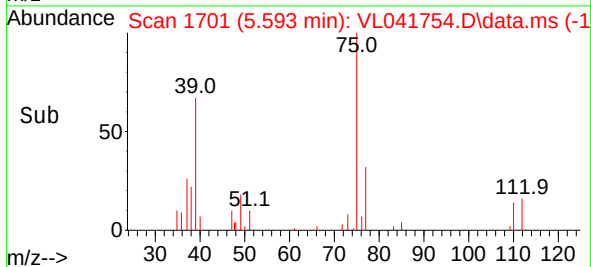
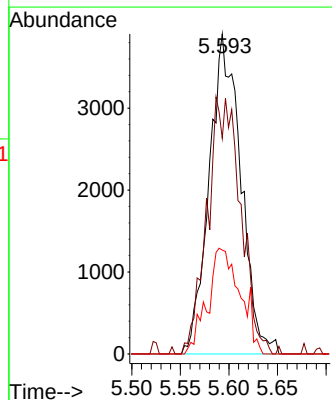
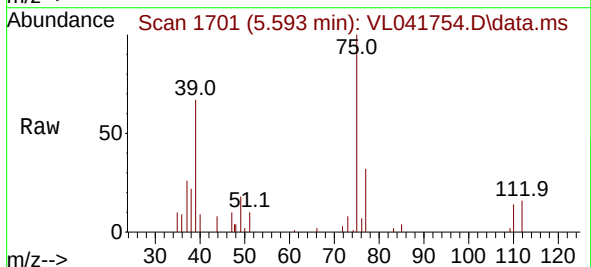
Manual Integrations
APPROVED

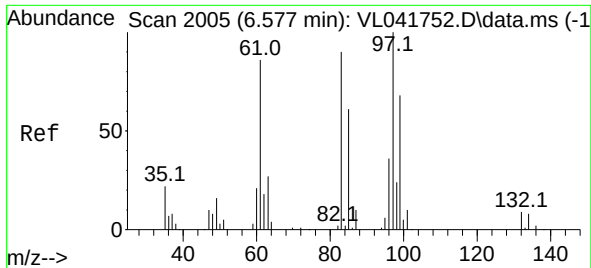
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

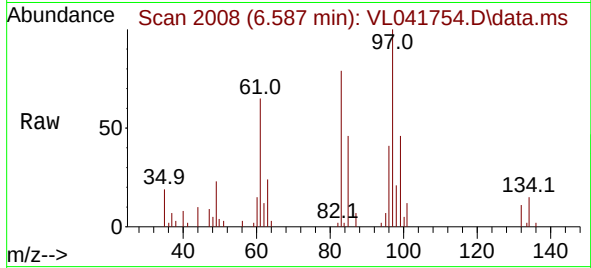
Tgt Ion: 75 Resp: 8815
Ion Ratio Lower Upper
75 100
39 67.4 65.2 97.8
77 32.5 22.0 33.0





#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

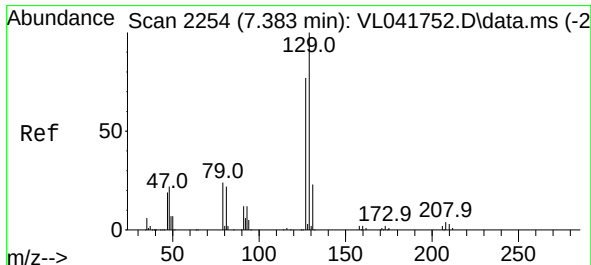
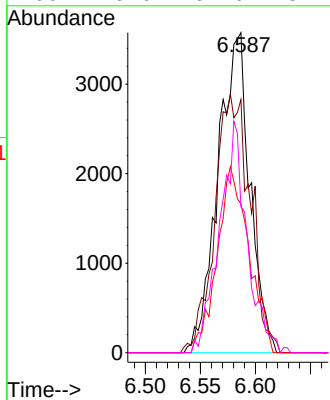
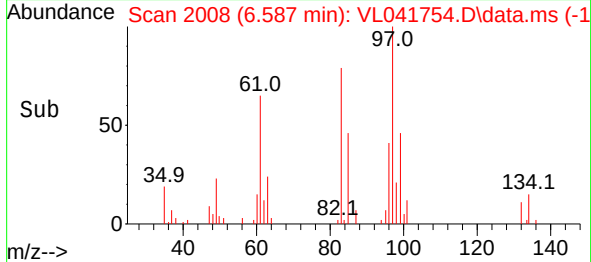
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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#

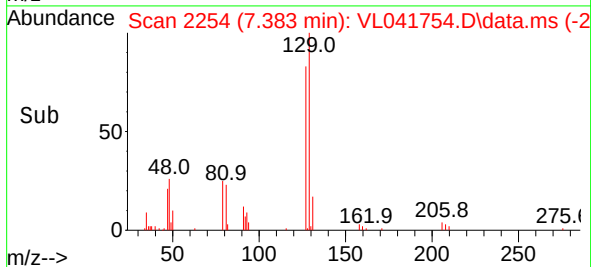
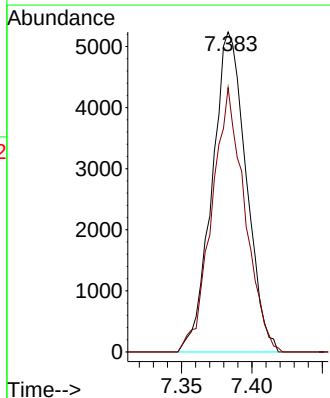
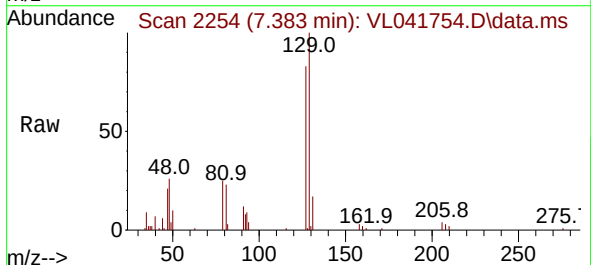
Manual Integrations
APPROVED

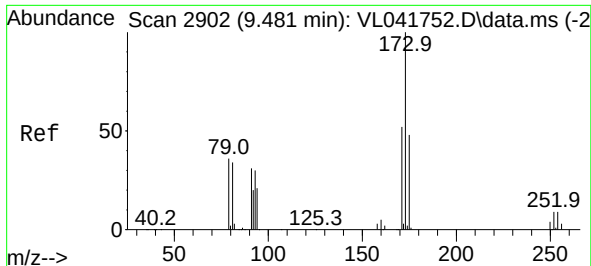
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

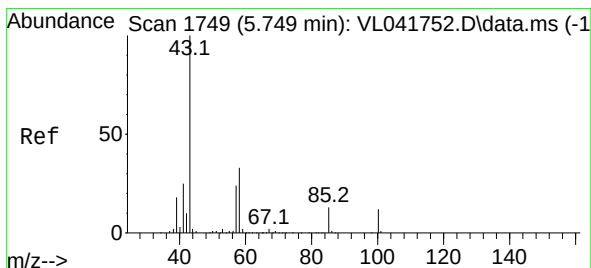
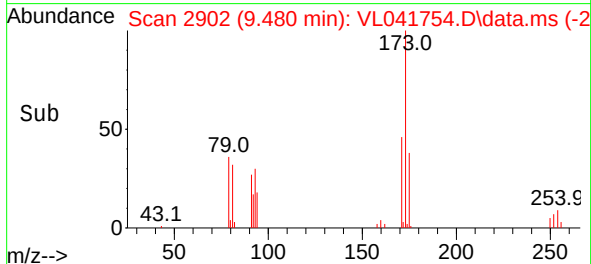
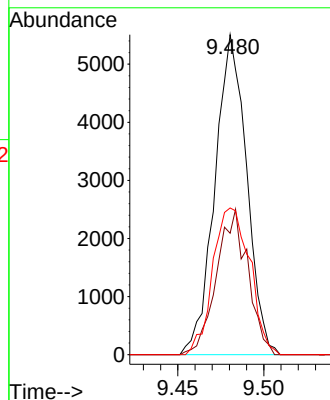
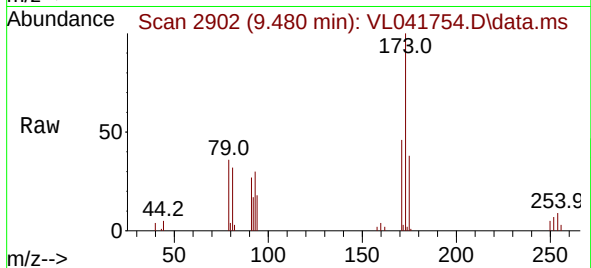
VSTDIC001

Tgt Ion:173 Resp: 7073
 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

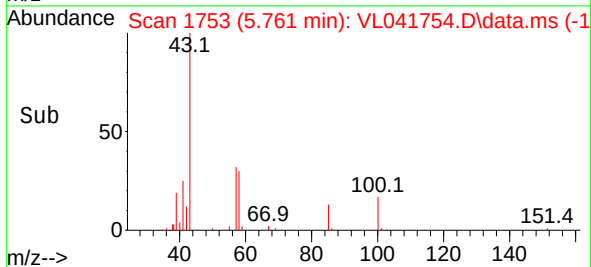
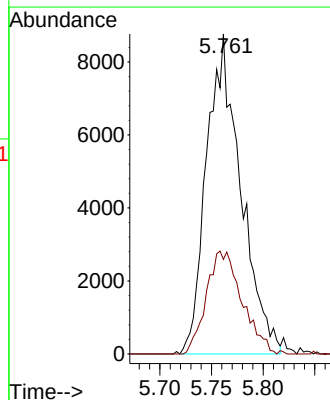
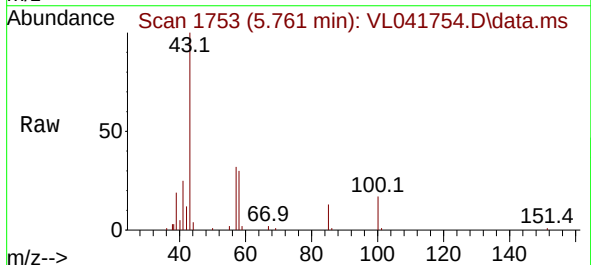
RT: 5.761 min Scan# 1753

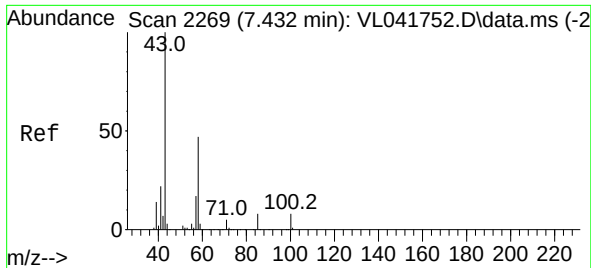
Delta R.T. 0.013 min

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





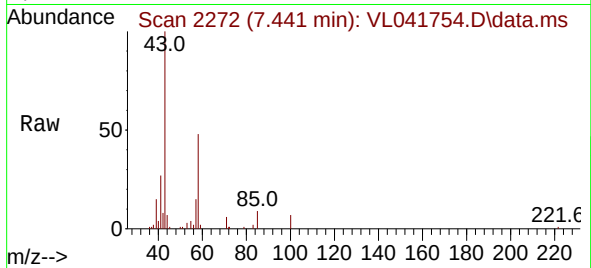
#51
2-Hexanone
Concen: 1.040 ppbv
RT: 7.441 min Scan# 2151
Delta R.T. 0.009 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

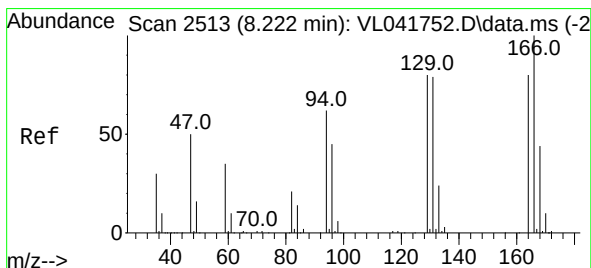
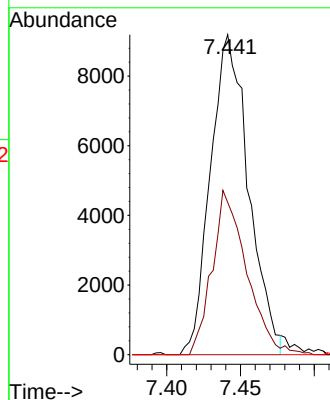
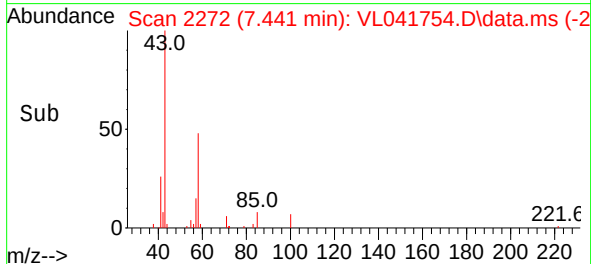


Tgt Ion: 43 Resp: 16514
Ion Ratio Lower Upper
43 100
58 46.5 36.6 55.0
98 0.2 0.1 0.1

Manual Integrations

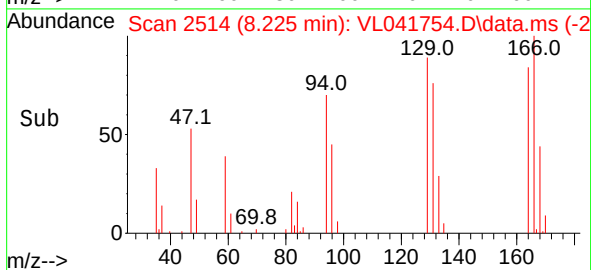
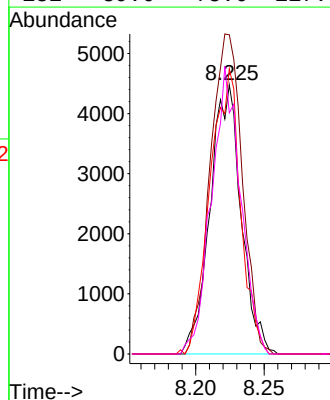
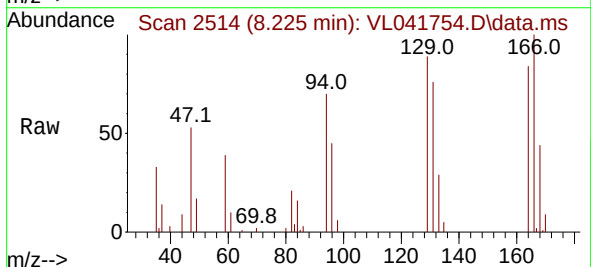
APPROVED

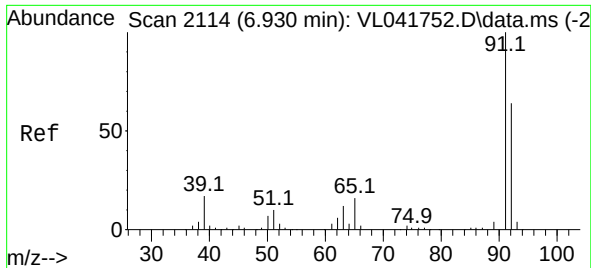
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDIC001

Tgt Ion: 91 Resp: 21594

Ion Ratio Lower Upper

91 100

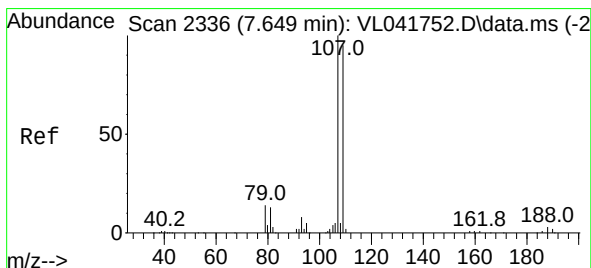
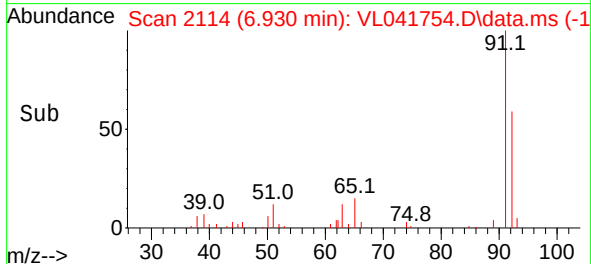
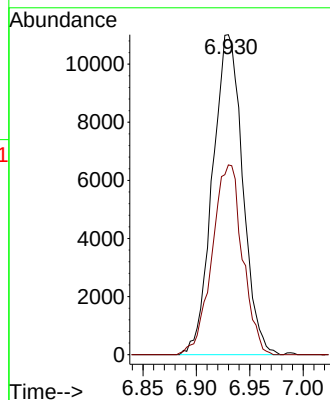
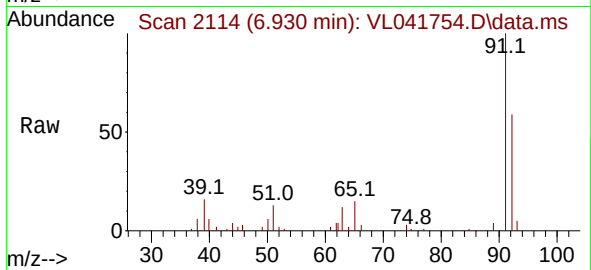
92 60.0 47.9 71.9

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

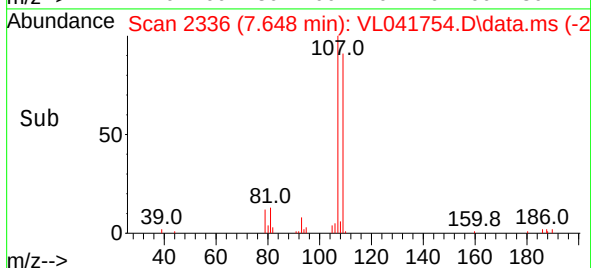
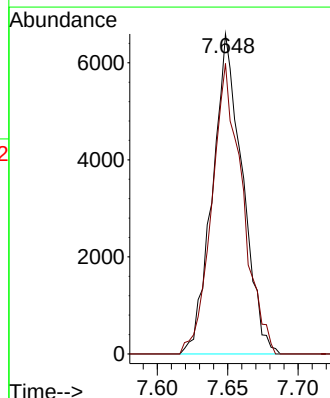
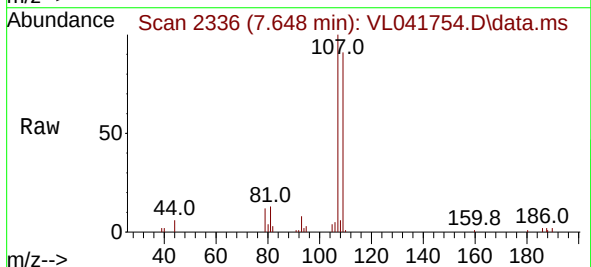
Acq: 16 Dec 2024 14:34

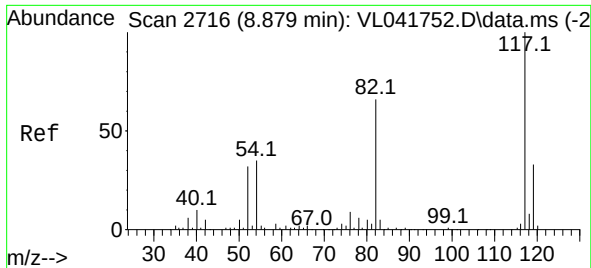
Tgt Ion:107 Resp: 9758

Ion Ratio Lower Upper

107 100

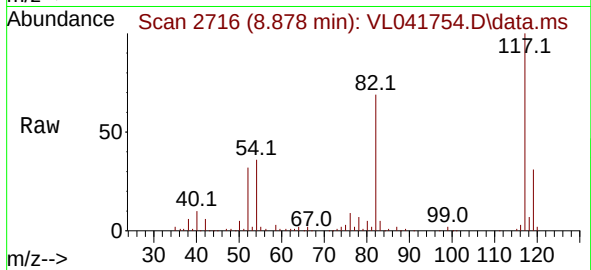
109 90.8 75.9 113.9





#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

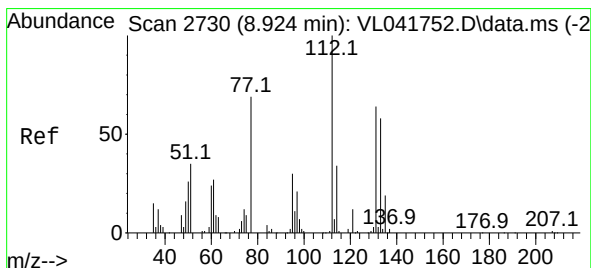
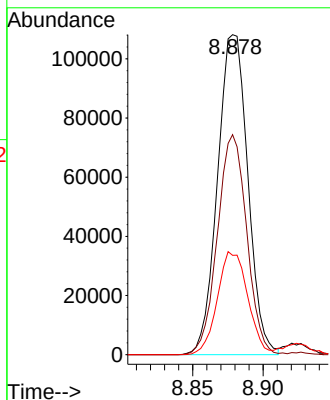
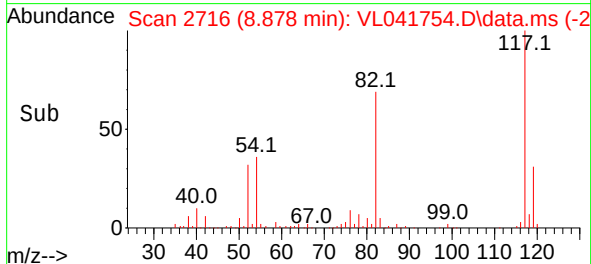
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



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

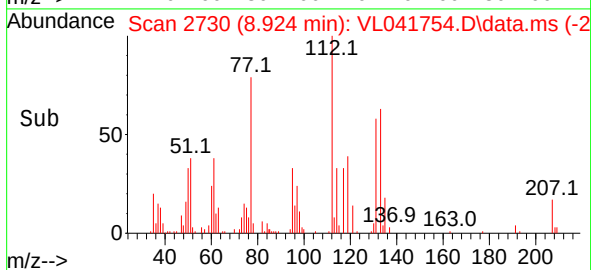
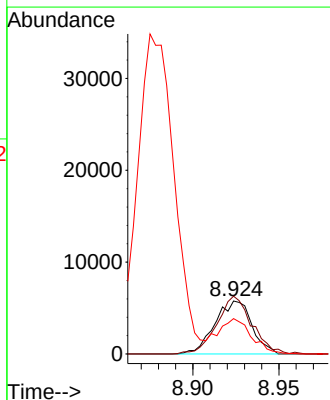
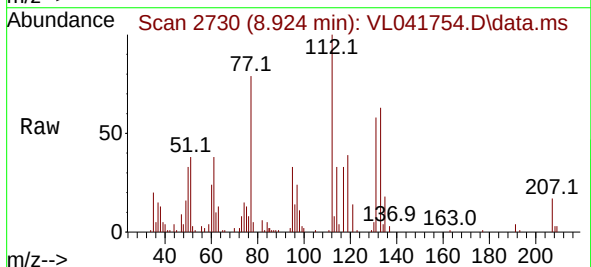
Manual Integrations
APPROVED

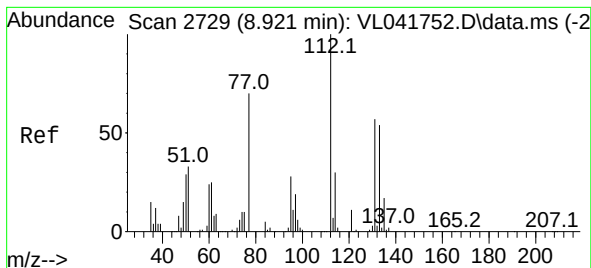
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

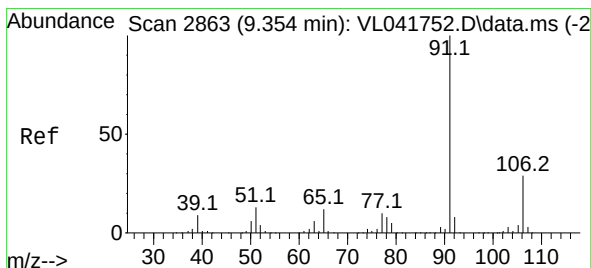
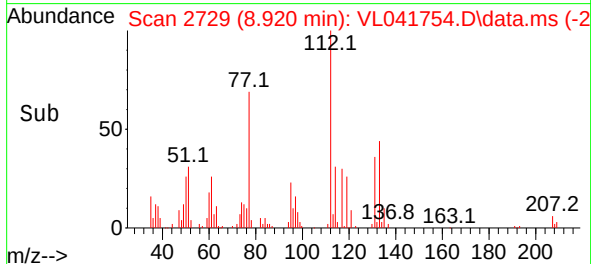
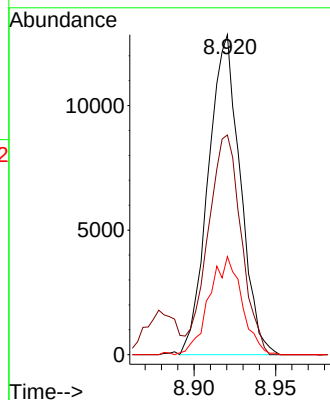
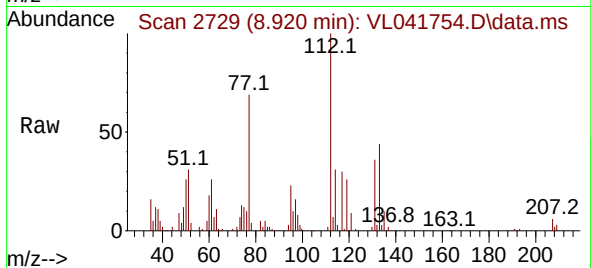
Tgt Ion: 112 Resp: 17500

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

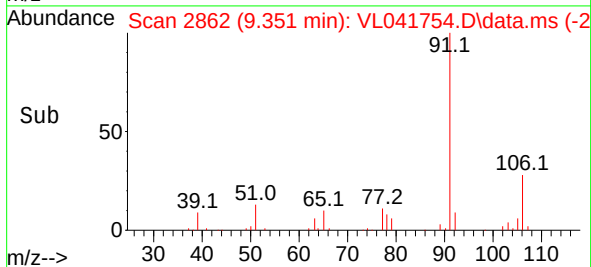
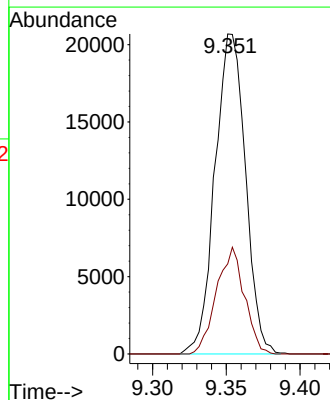
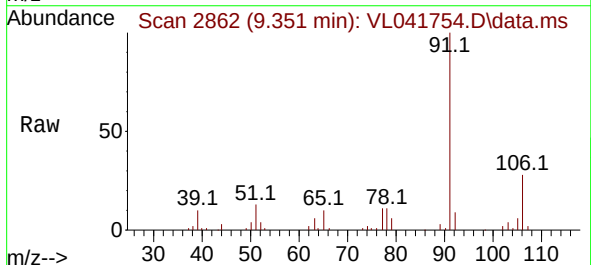
Delta R.T. -0.004 min

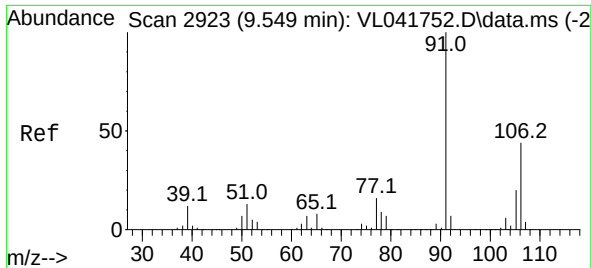
Lab File: VL041754.D

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: 47599

Ion Ratio Lower Upper

91 100

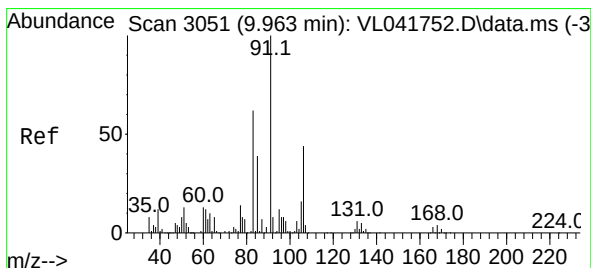
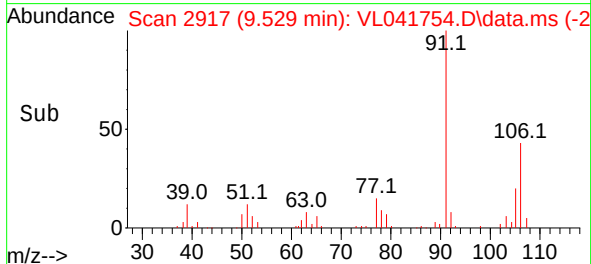
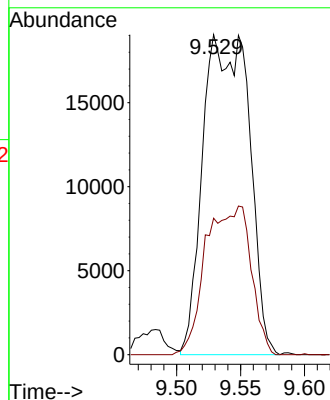
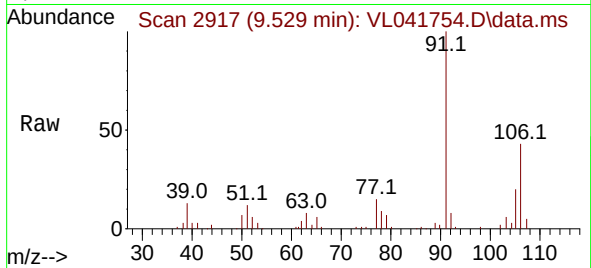
106 45.6 0.0 0.0

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

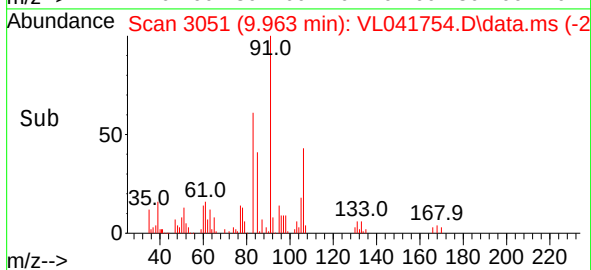
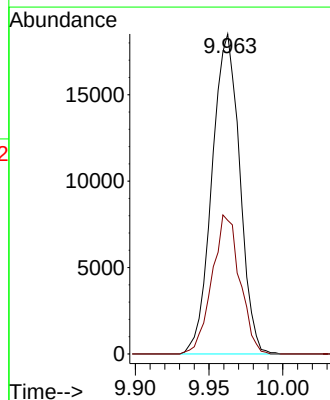
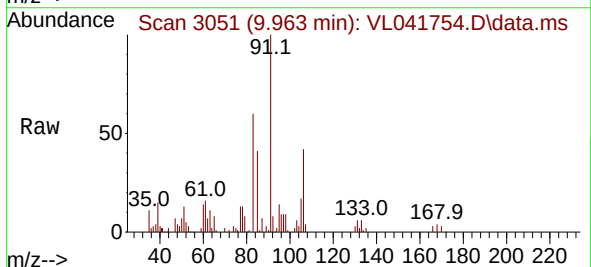
Acq: 16 Dec 2024 14:34

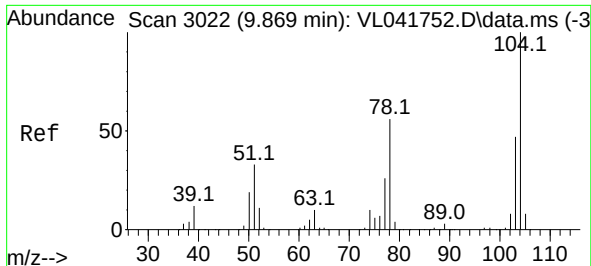
Tgt Ion: 91 Resp: 24210

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 :

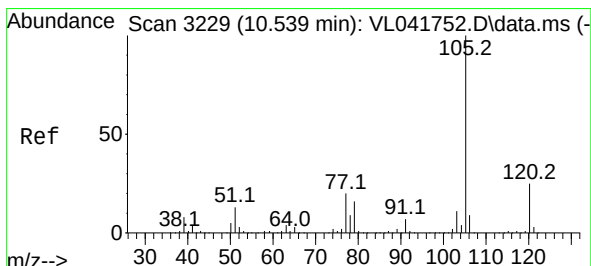
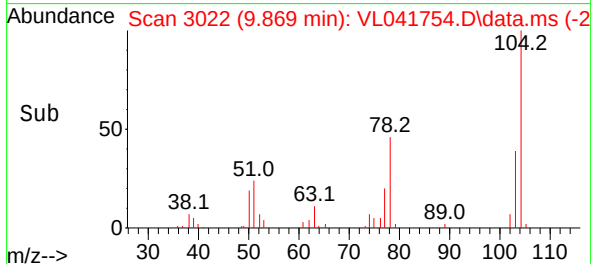
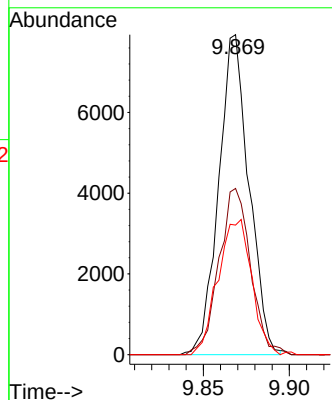
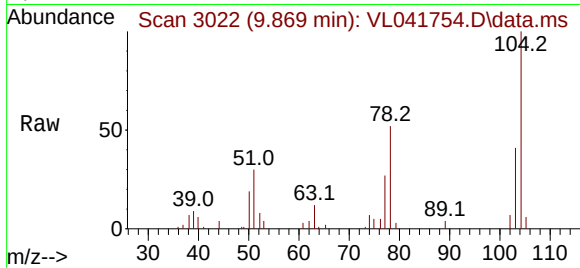
VSTDIC001

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

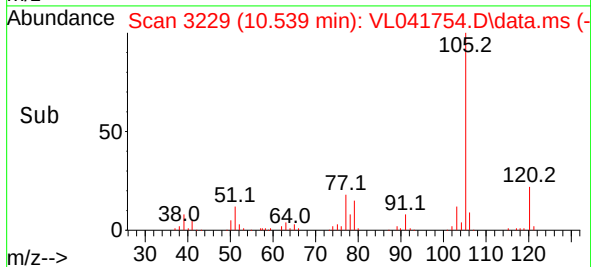
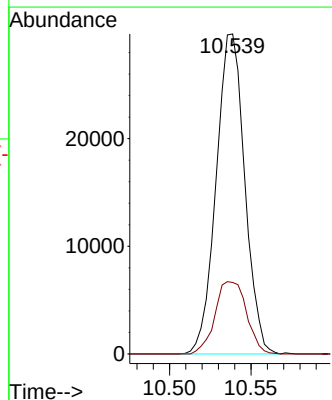
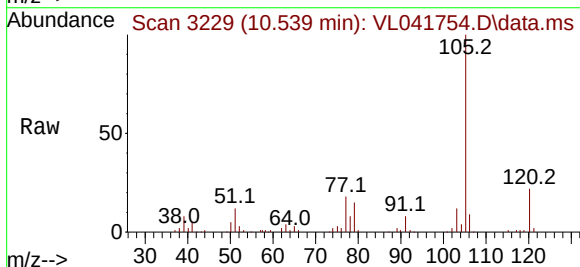
APPROVED

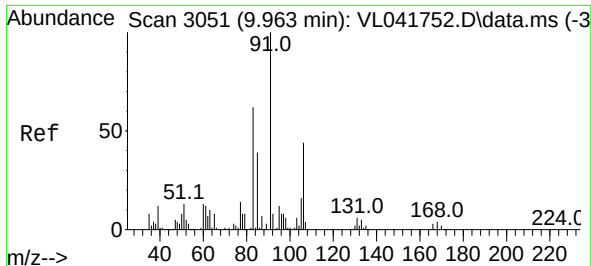
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

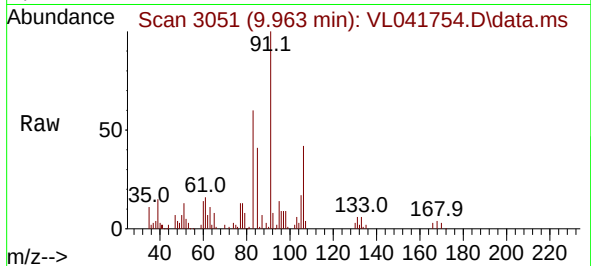
Tgt Ion:105 Resp: 36251
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#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

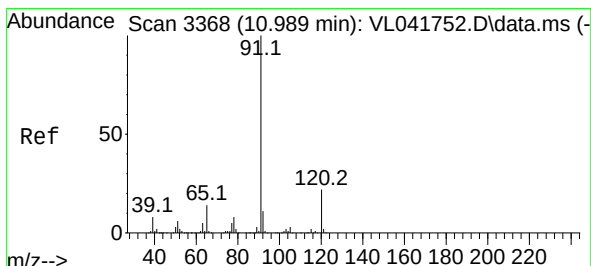
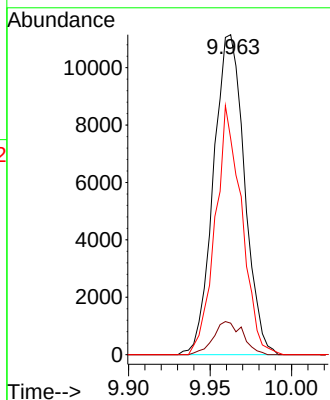
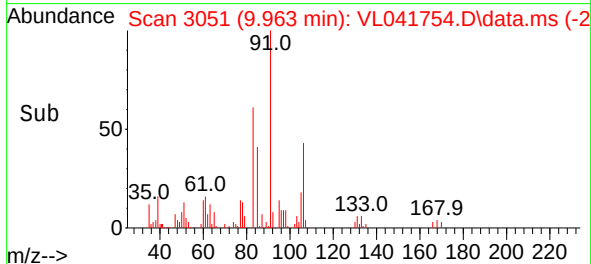
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 83 Resp: 14752
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 66.2 32.0 96.2

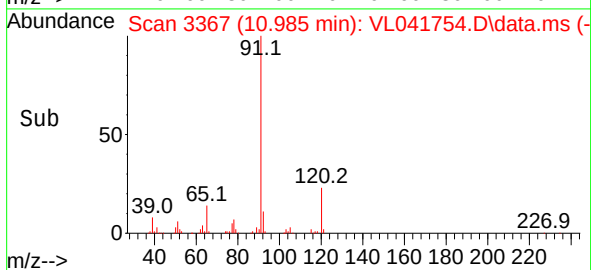
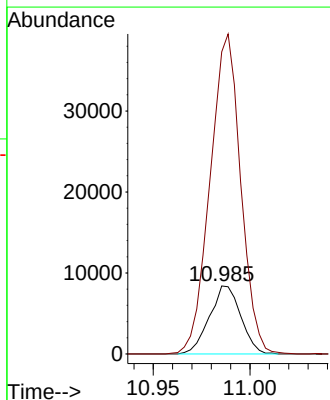
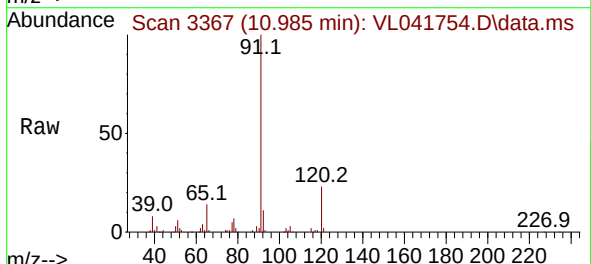
Manual Integrations
APPROVED

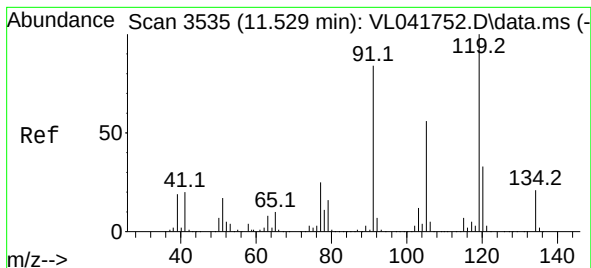
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#64
n-propylbenzene
Concen: 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

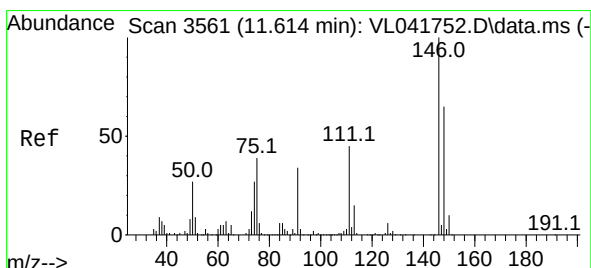
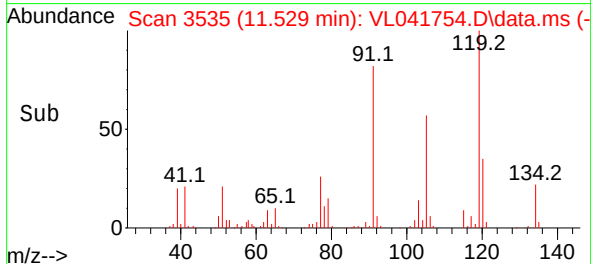
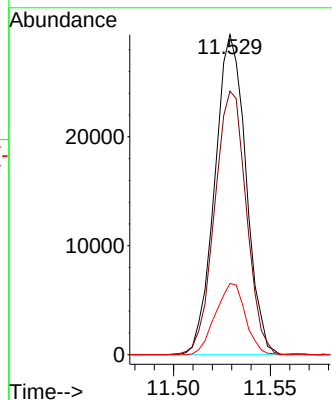
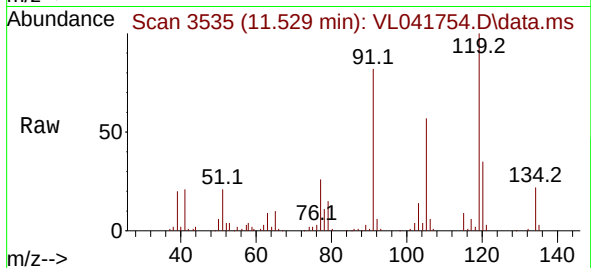
Tgt Ion:119 Resp: 3288

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

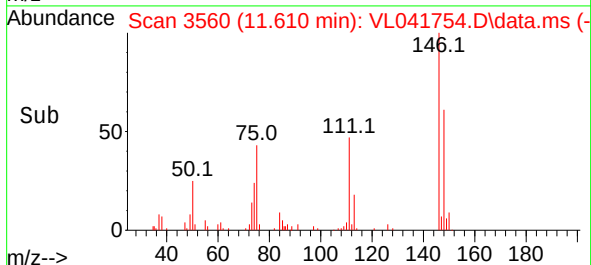
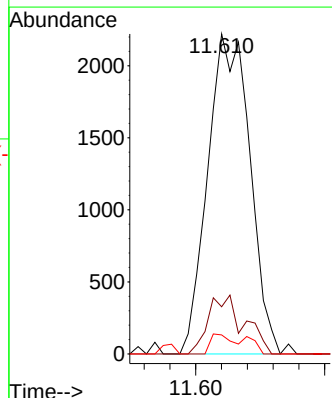
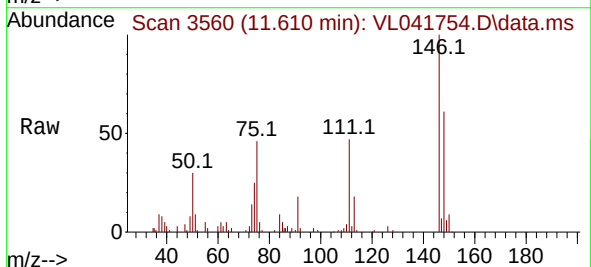
Delta R.T. -0.004 min

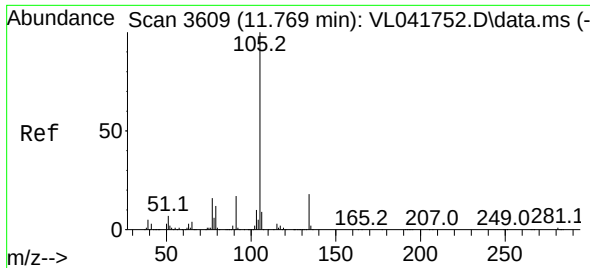
Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Tgt Ion: 91 Resp: 2518

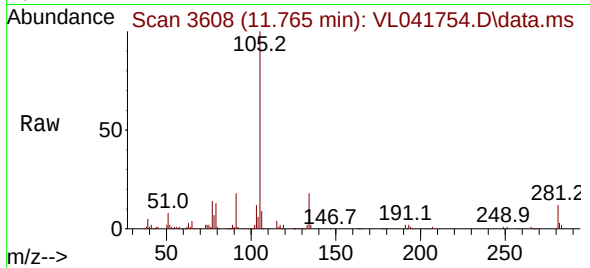
Ion	Ratio	Lower	Upper
91	100		
126	15.6	13.9	20.9
128	5.9	4.4	6.6





#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

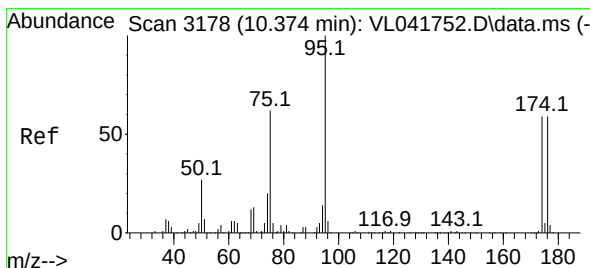
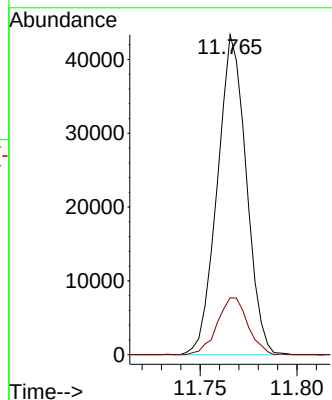
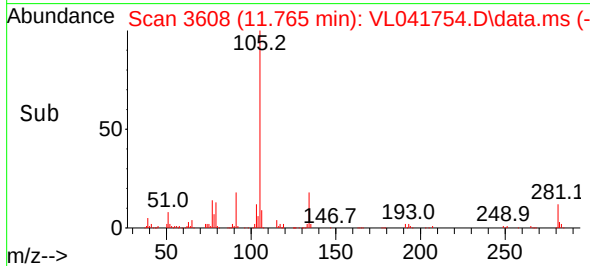
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:105 Resp: 45015
 Ion Ratio Lower Upper
 105 100
 134 18.8 14.5 21.7

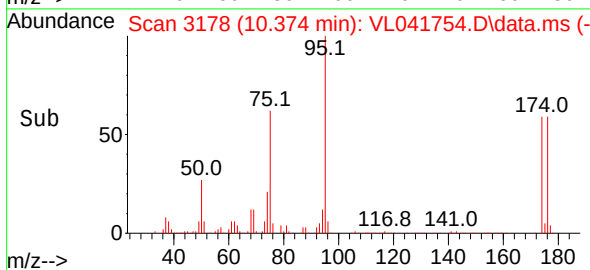
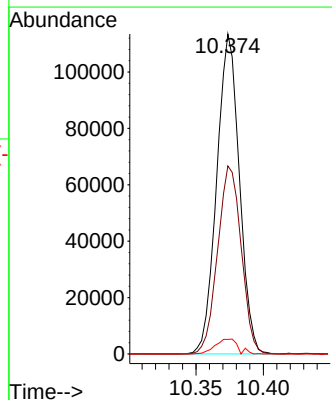
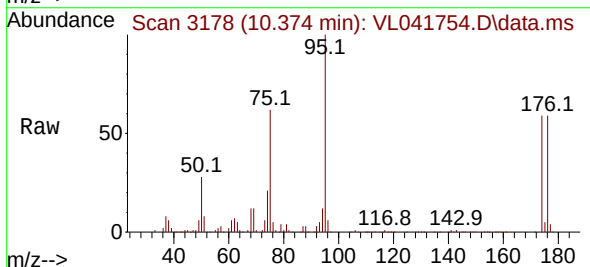
Manual Integrations
 APPROVED

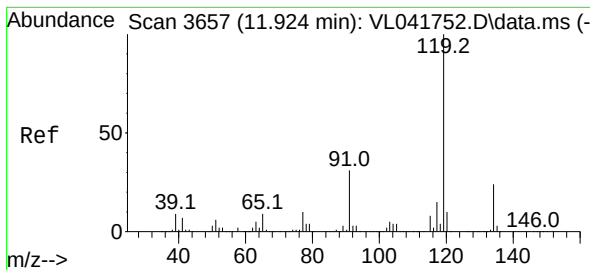
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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





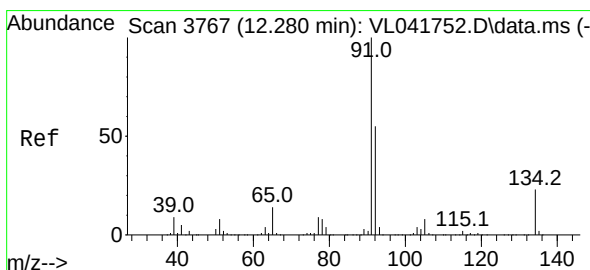
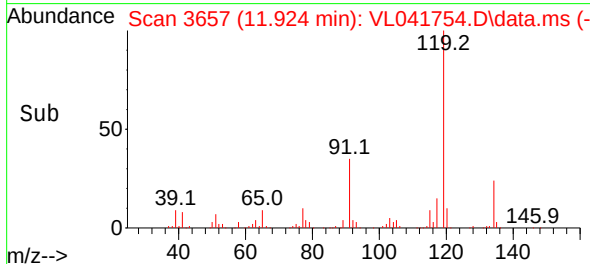
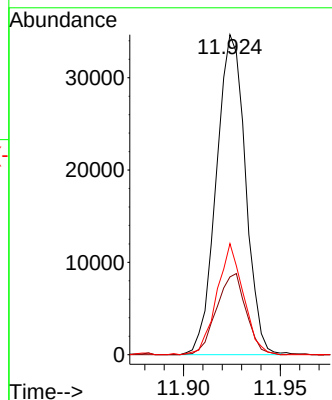
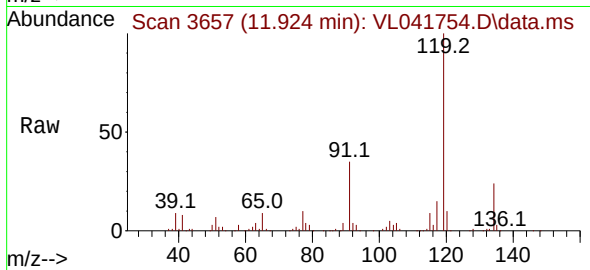
#69
p-Isopropyltoluene
Concen: 0.997 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

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

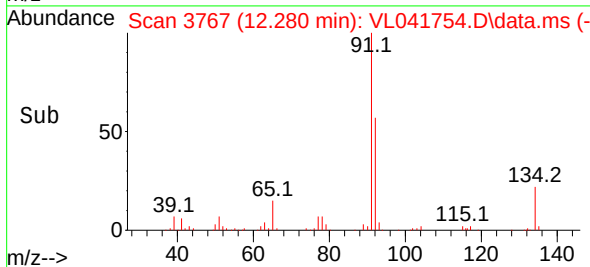
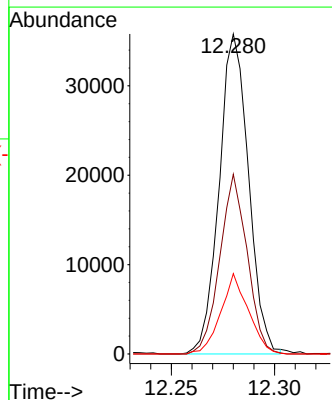
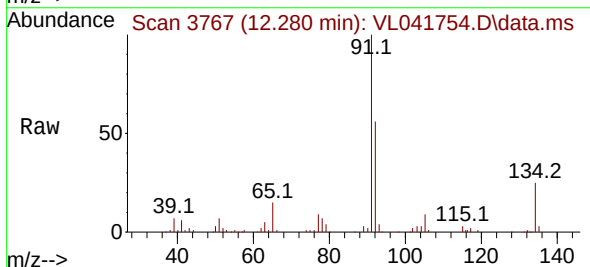
Manual Integrations
APPROVED

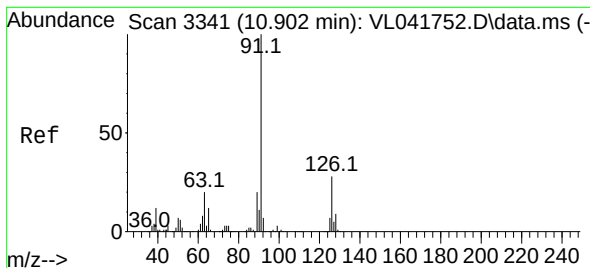
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





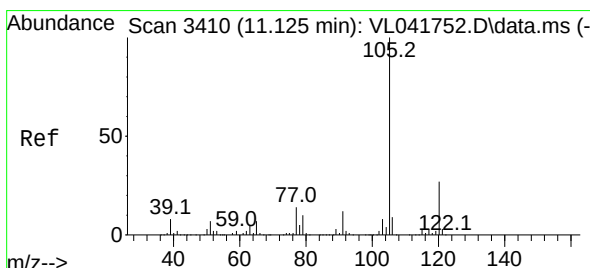
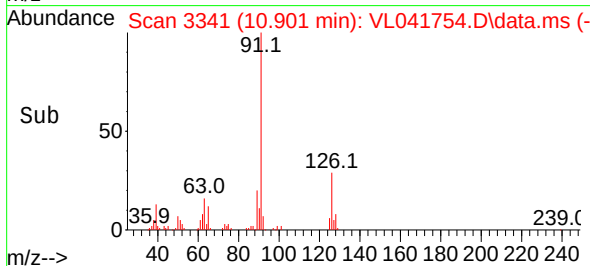
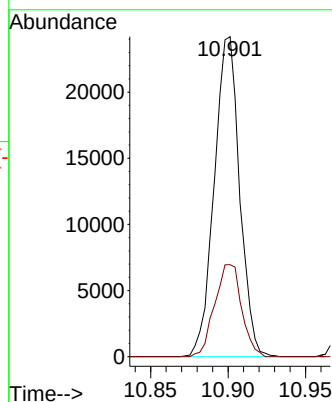
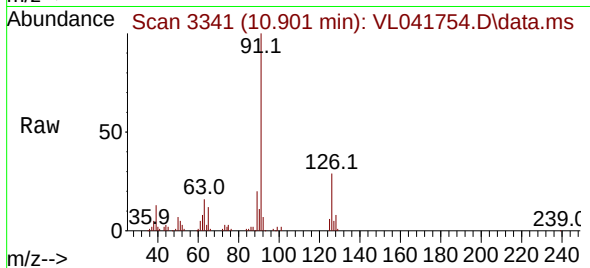
#71
2-Chlorotoluene
Concen: 1.020 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 2756
Ion Ratio Lower Upper
91 100
126 30.5 11.6 46.4

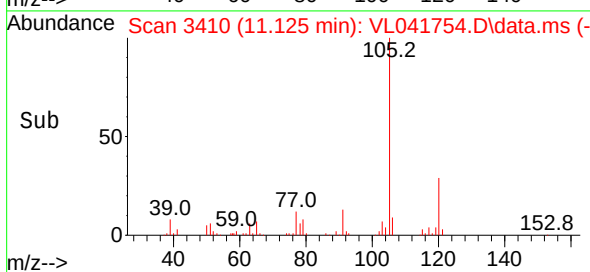
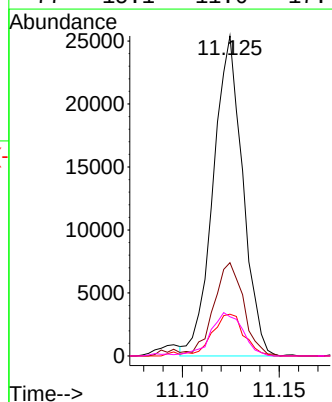
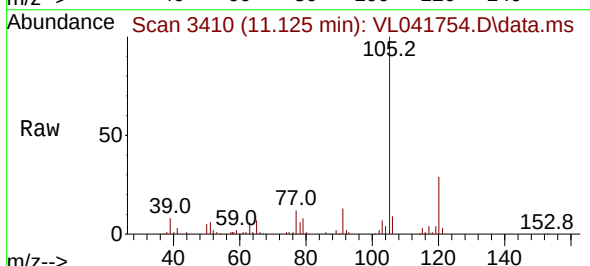
Manual Integrations
APPROVED

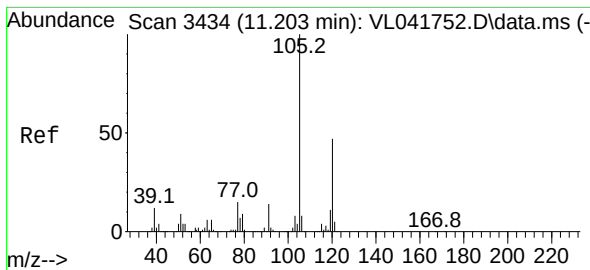
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

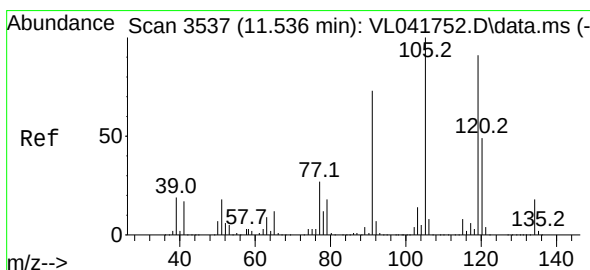
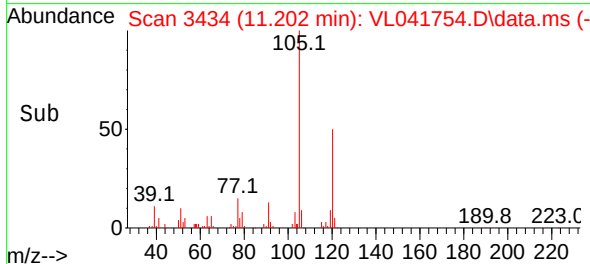
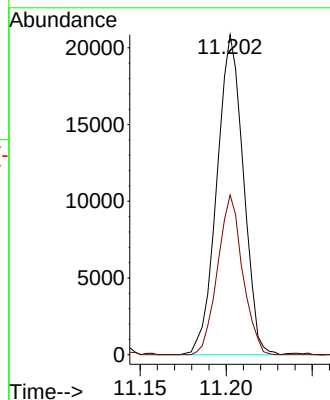
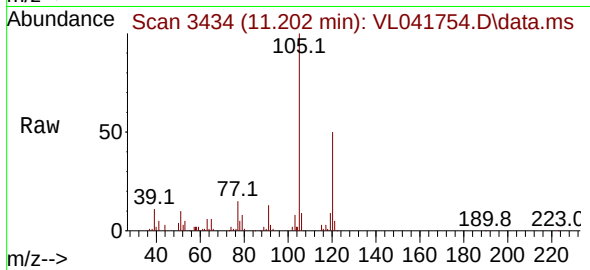
120 49.9 37.4 56.2

Manual Integrations

APPROVED

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

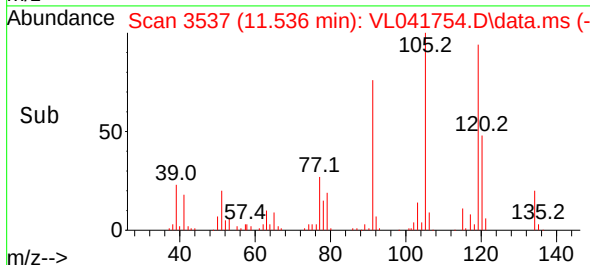
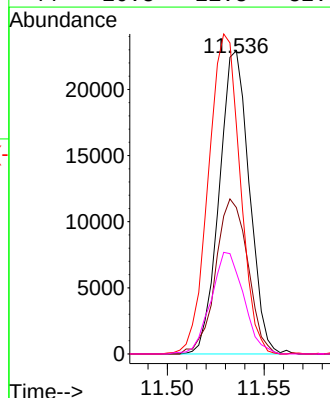
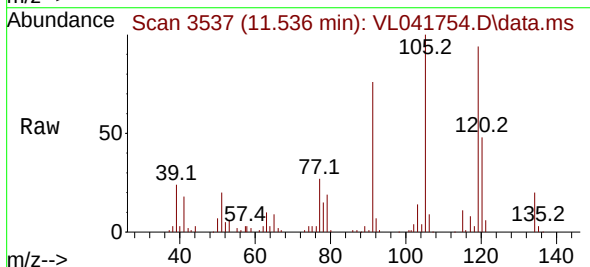
Ion Ratio Lower Upper

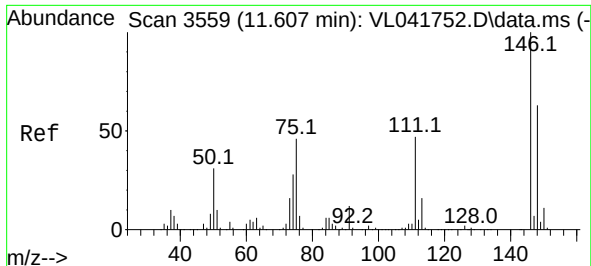
105 100

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# 3559

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

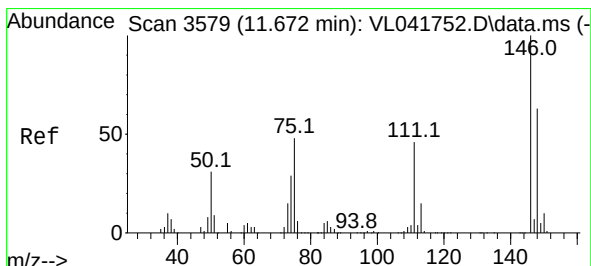
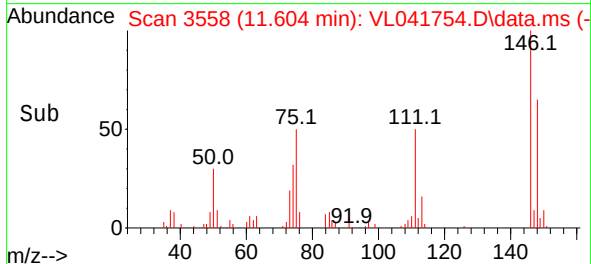
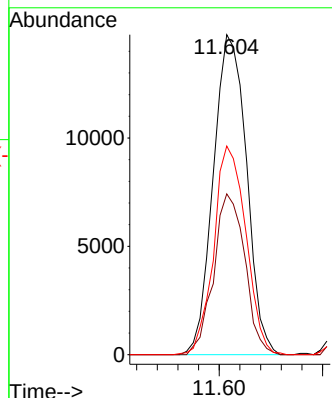
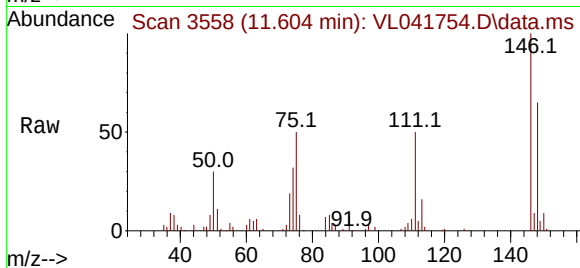
VSTDIC001

Tgt Ion:146 Resp: 16470
 Ion Ratio Lower Upper
 146 100
 111 47.3 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: 1.010 ppbv

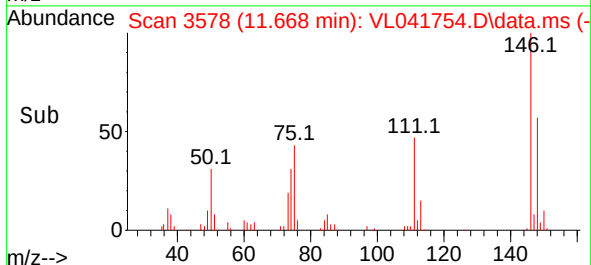
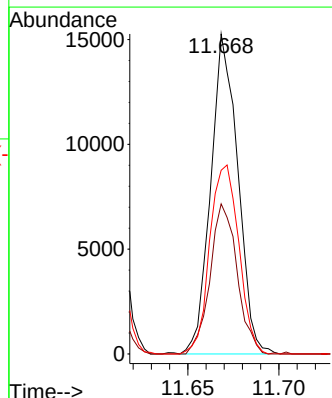
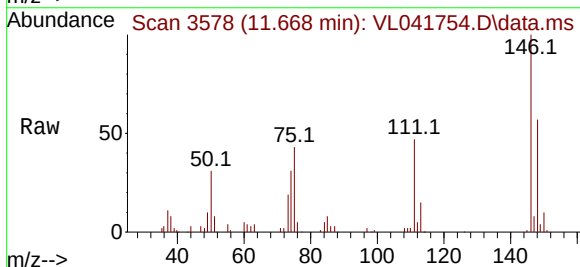
RT: 11.668 min Scan# 3578

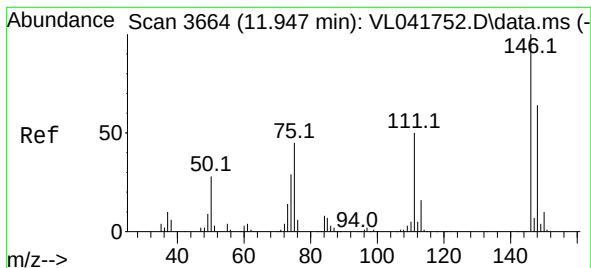
Delta R.T. -0.004 min

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

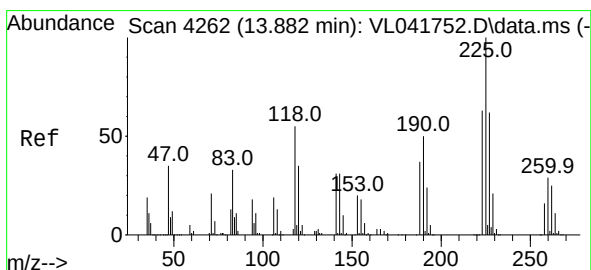
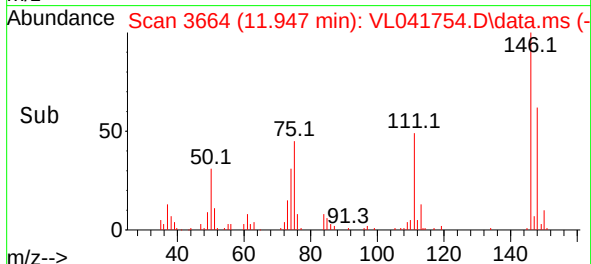
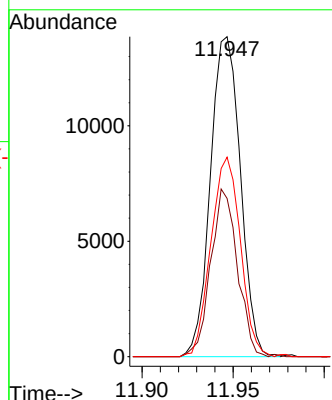
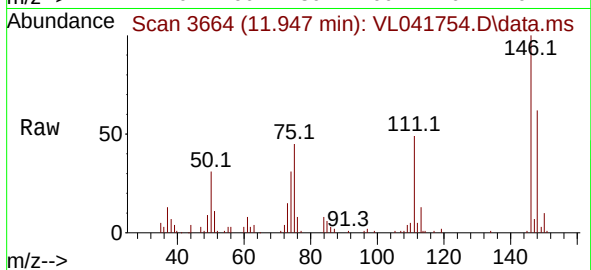
148 61.6 31.8 95.4

Manual Integrations

APPROVED

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

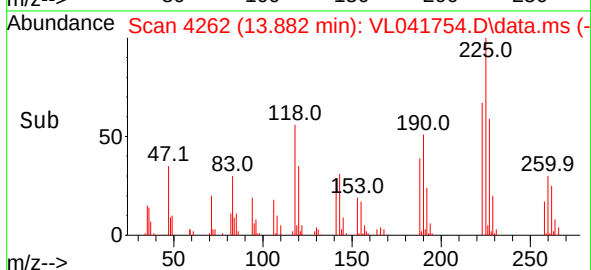
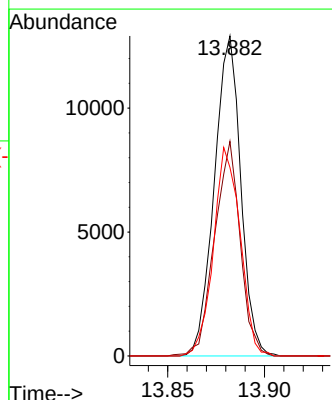
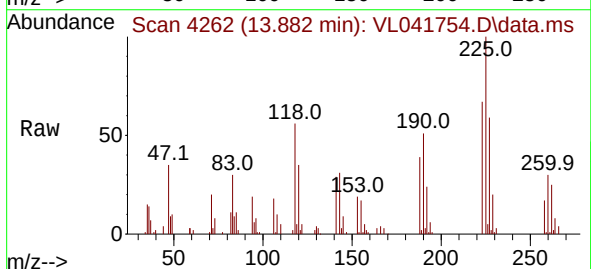
Tgt Ion:225 Resp: 12266

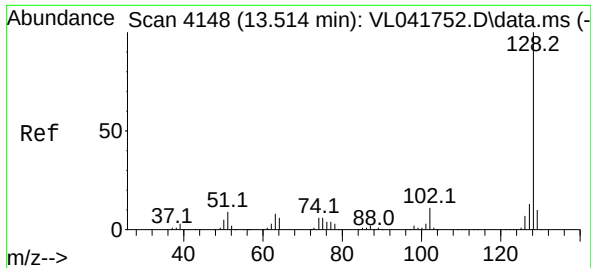
Ion Ratio Lower Upper

225 100

223 65.0 50.5 75.7

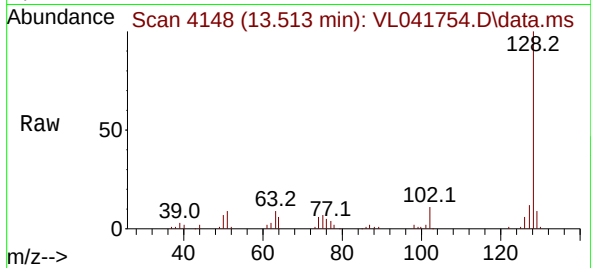
227 65.7 50.3 75.5





#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

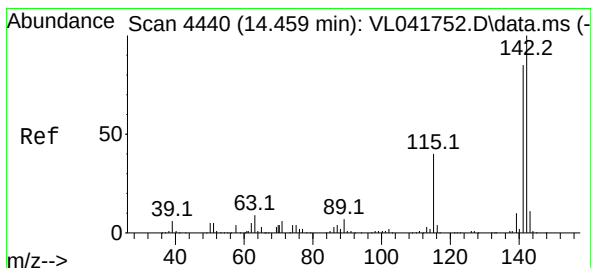
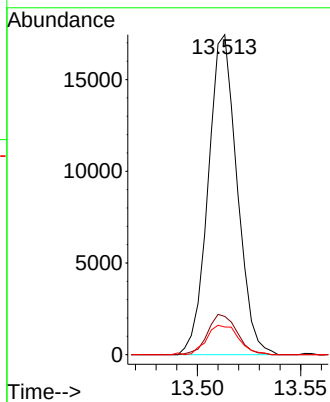
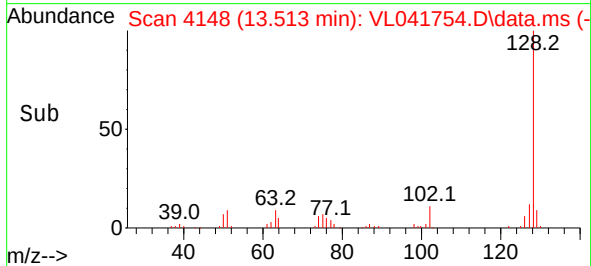
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



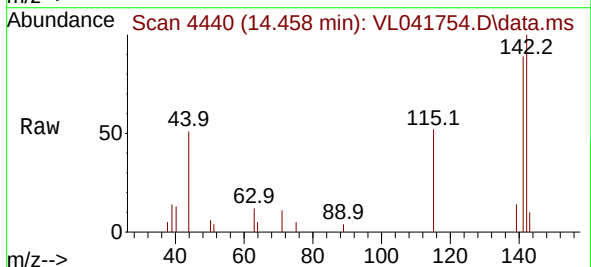
Tgt Ion:128 Resp: 1697
Ion Ratio Lower Upper
128 100
127 12.0 10.7 16.1
129 8.7 8.2 12.4

Manual Integrations
APPROVED

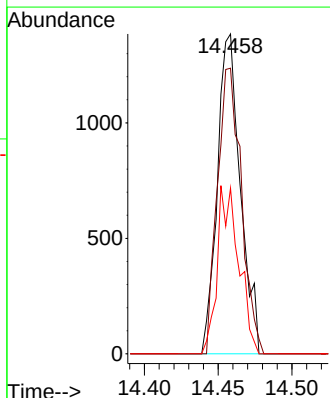
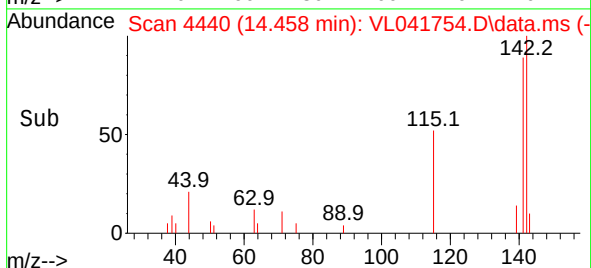
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

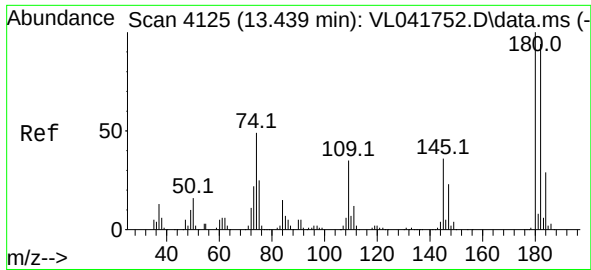


#80
Naphthalene,2-methyl-
Concen: 0.281 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34



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

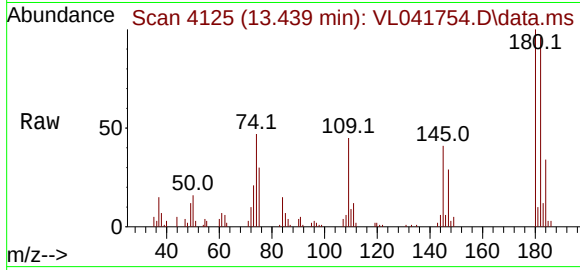
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:180 Resp: 897

Ion Ratio Lower Upper

180 100

182 99.0 77.0 115.6

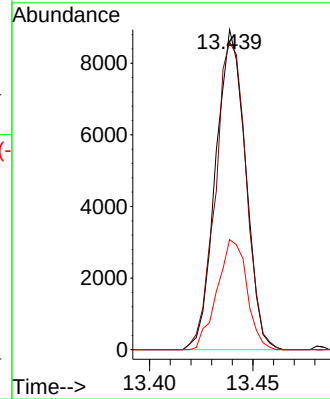
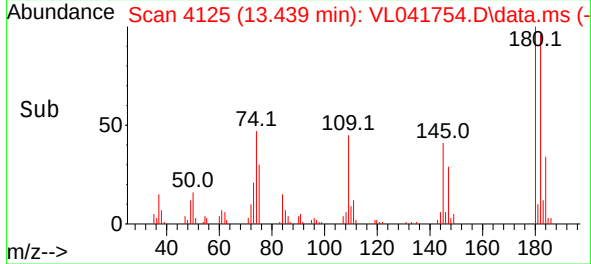
184 34.2 23.8 35.8

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

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_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	2.787	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

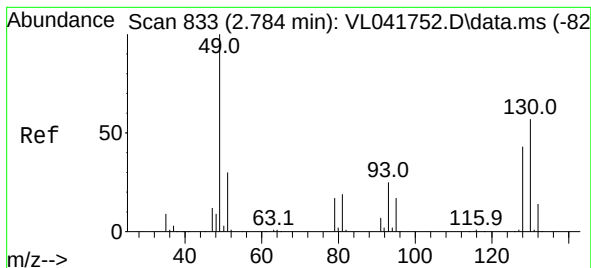
Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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



#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_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 49 Resp: 66562

Ion Ratio Lower Upper

49 100

128 42.6 21.6 64.6

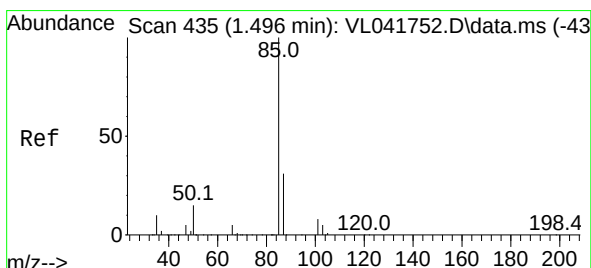
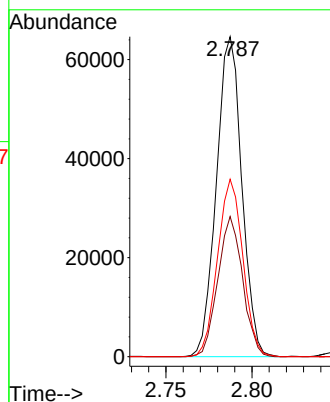
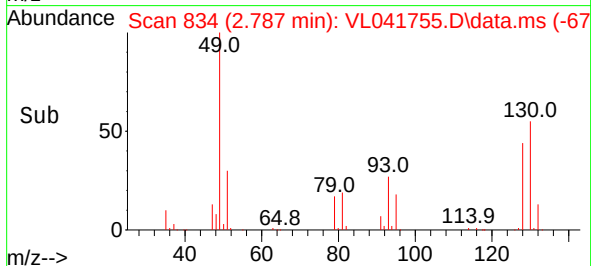
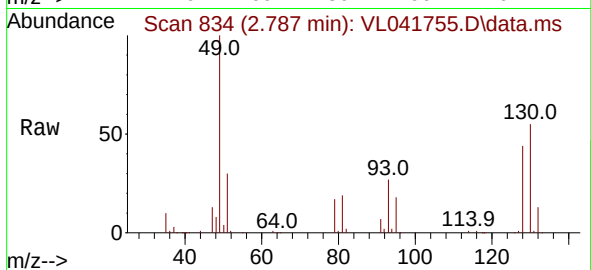
130 55.1 28.3 85.0

Manual Integrations

APPROVED

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

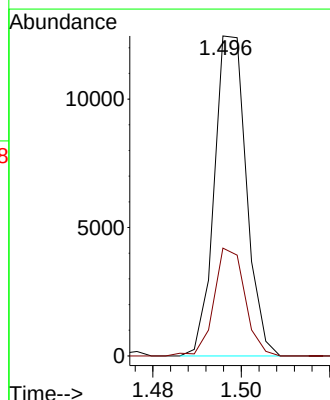
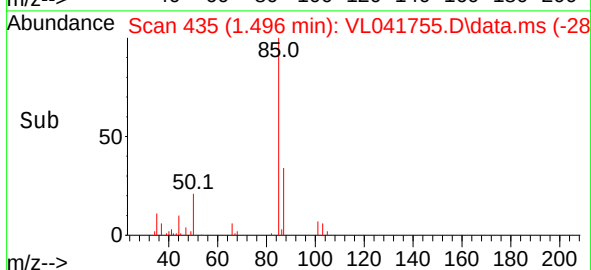
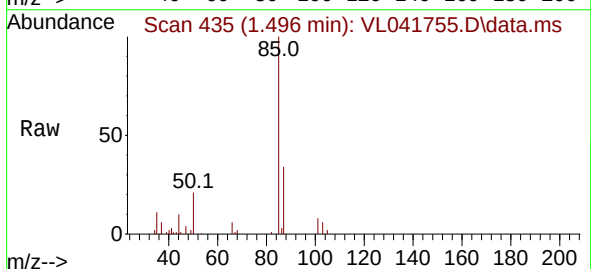
Acq: 16 Dec 2024 15:05

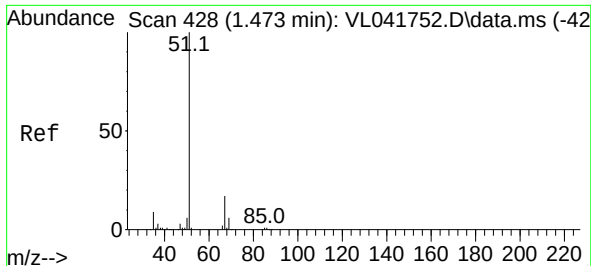
Tgt Ion: 85 Resp: 6277

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

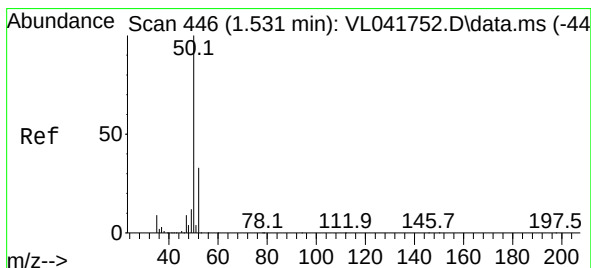
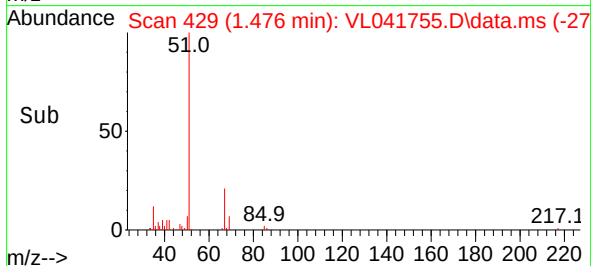
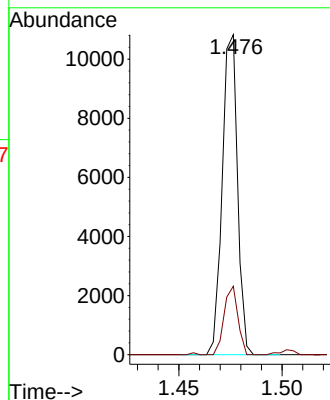
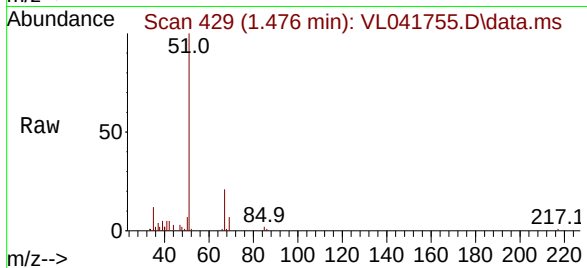
67 21.0 15.0 22.4

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

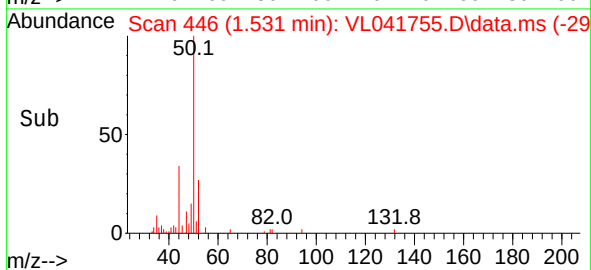
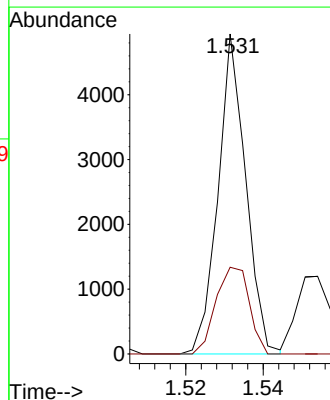
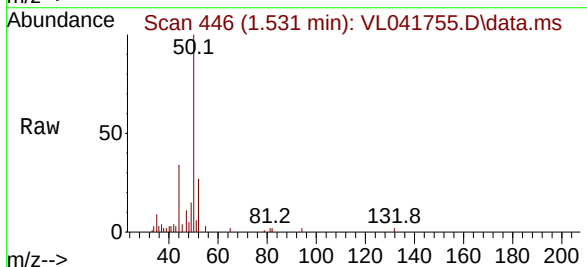
Acq: 16 Dec 2024 15:05

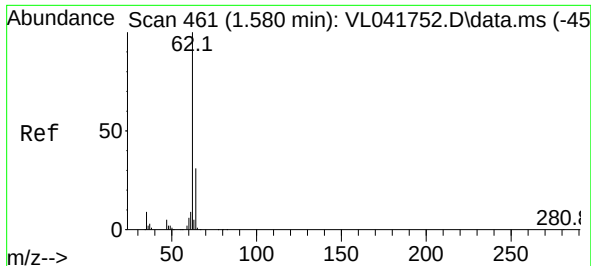
Tgt Ion: 50 Resp: 2452

Ion Ratio Lower Upper

50 100

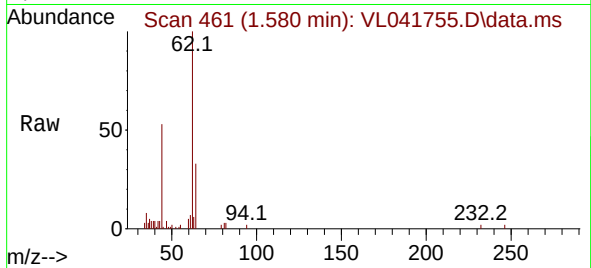
52 27.1 26.2 39.2





#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

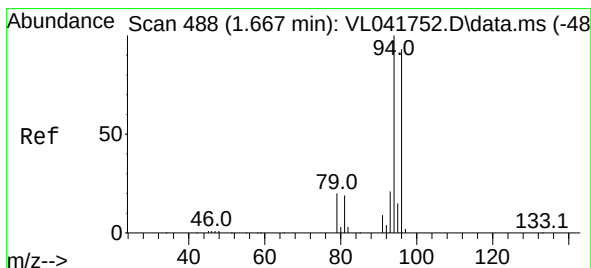
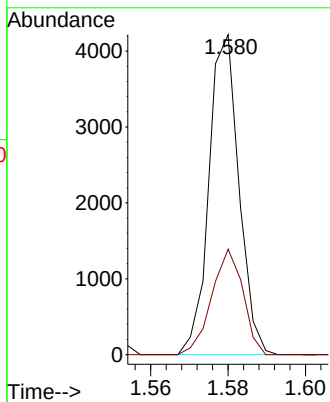
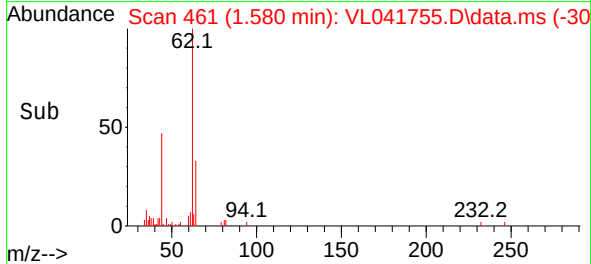
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 62 Resp: 2269
 Ion Ratio Lower Upper
 62 100
 64 32.9 25.1 37.7

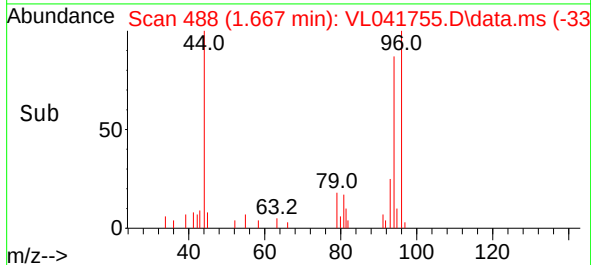
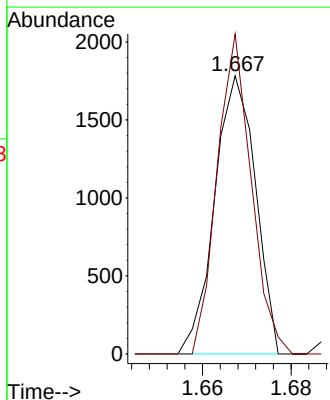
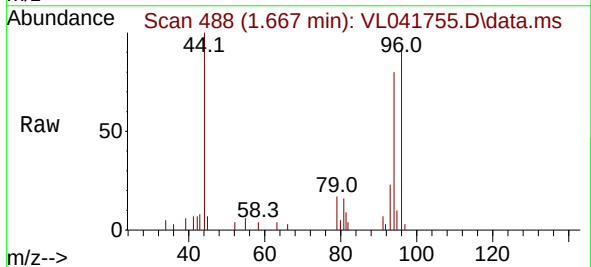
Manual Integrations
 APPROVED

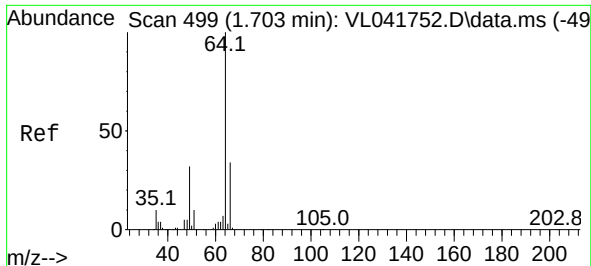
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

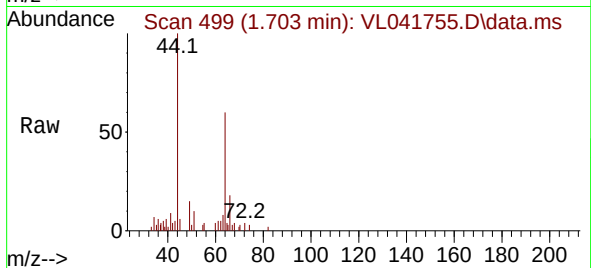
Tgt Ion: 94 Resp: 1143
 Ion Ratio Lower Upper
 94 100
 96 115.0 74.7 112.1#





#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

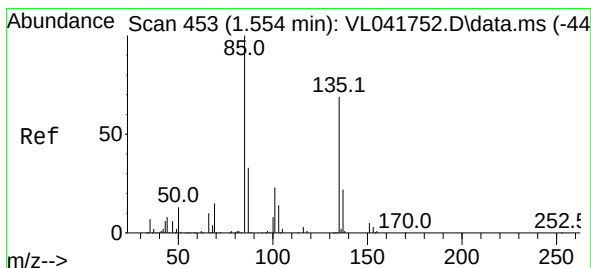
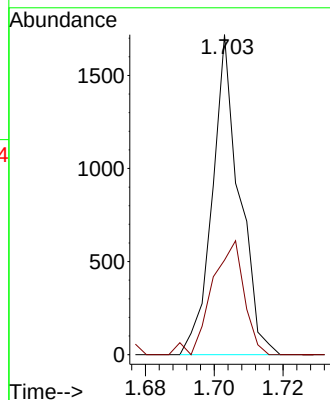
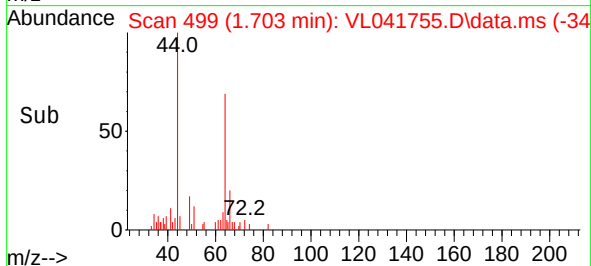
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 64 Resp: 939
Ion Ratio Lower Upper
64 100
66 27.6 27.5 41.3

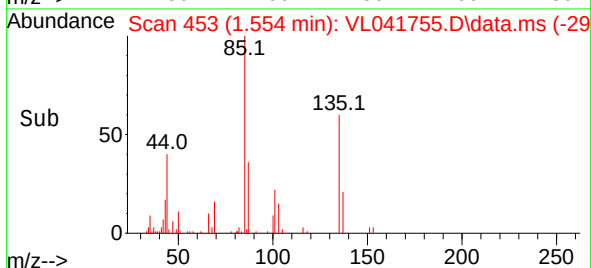
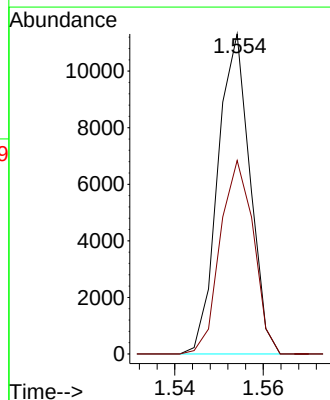
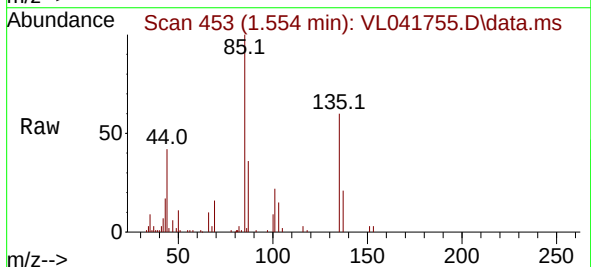
Manual Integrations
APPROVED

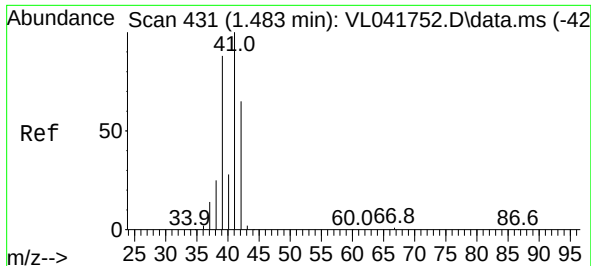
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

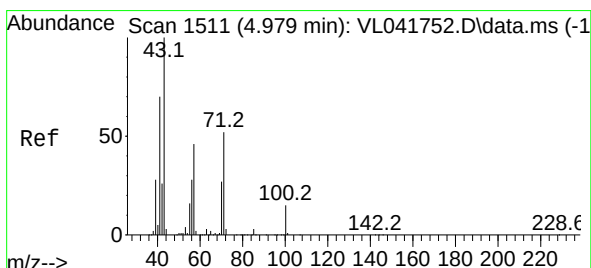
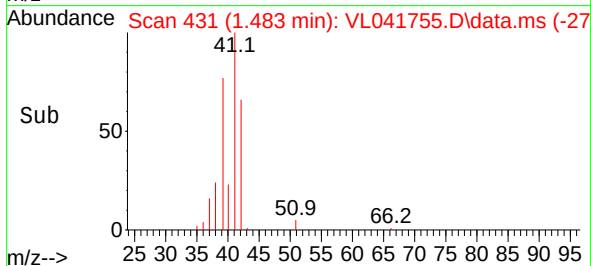
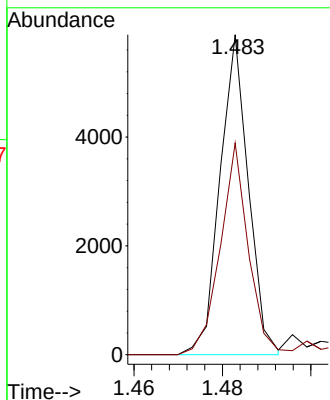
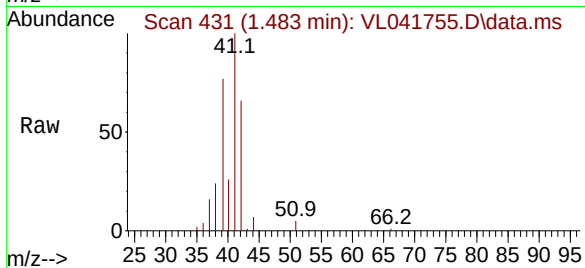
42 79.6 52.4 78.6

Manual Integrations

APPROVED

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

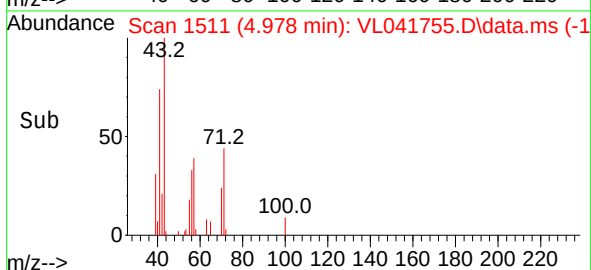
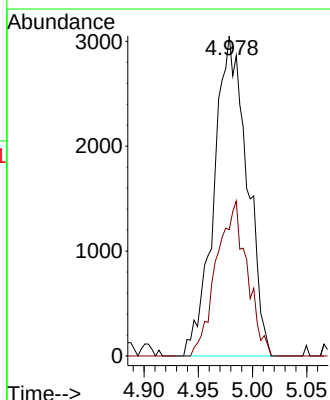
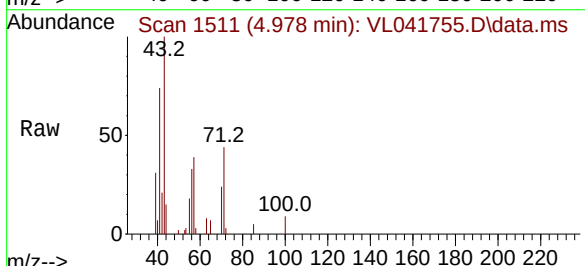
Acq: 16 Dec 2024 15:05

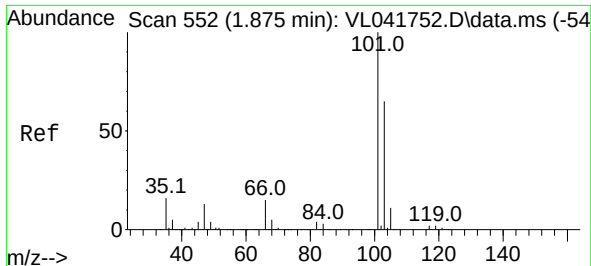
Tgt Ion: 43 Resp: 6491

Ion Ratio Lower Upper

43 100

57 44.7 38.5 57.7





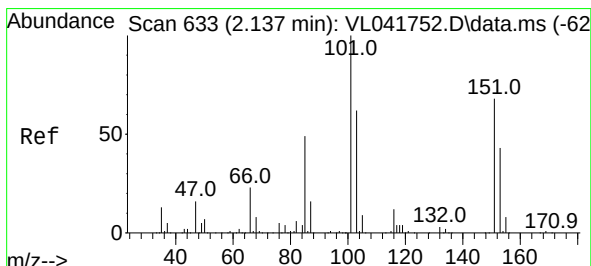
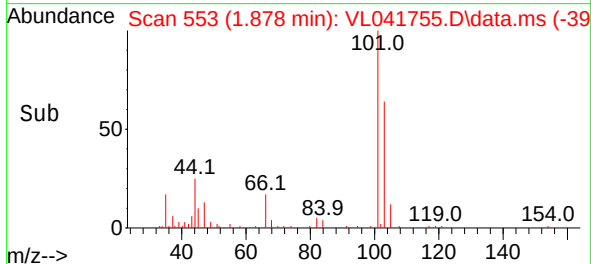
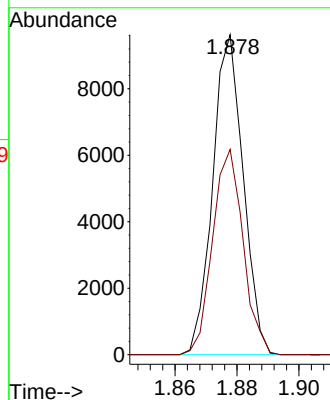
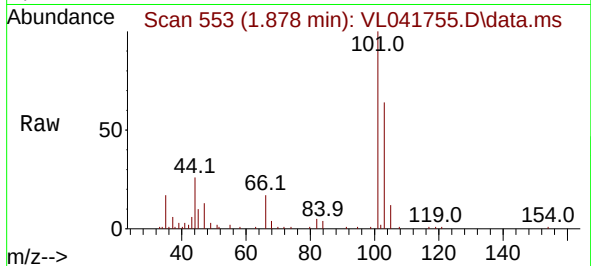
#11
 Trichlorofluoromethane
 Concen: 0.524 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:101 Resp: 6594
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.8 77.8

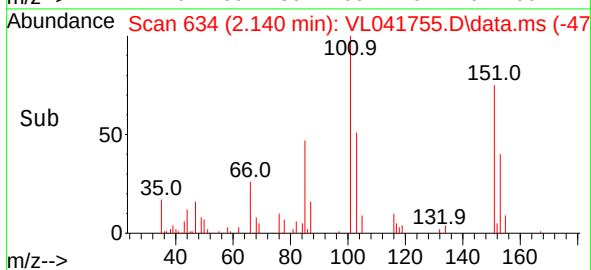
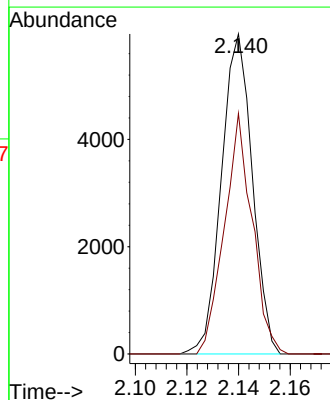
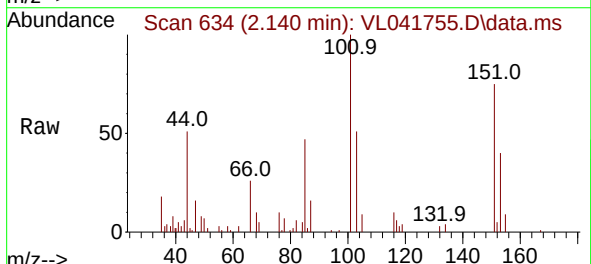
Manual Integrations
 APPROVED

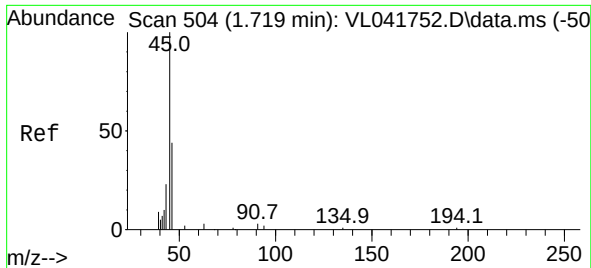
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

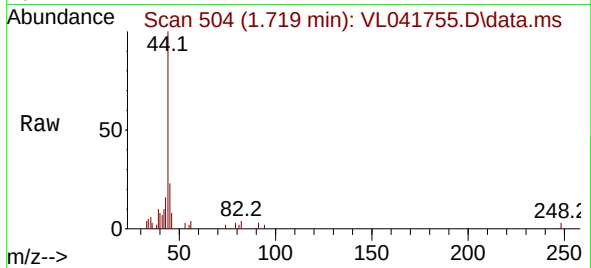
Tgt Ion:101 Resp: 4962
 Ion Ratio Lower Upper
 101 100
 151 67.9 56.8 85.2





#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

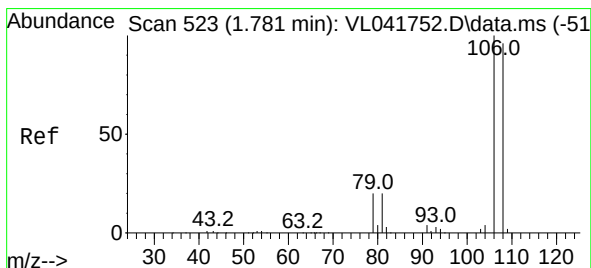
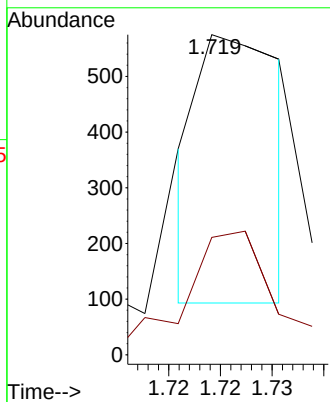
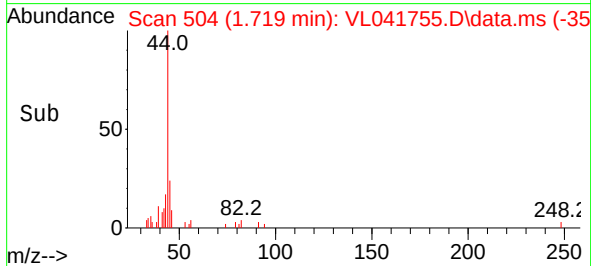
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 45 Resp: 269
Ion Ratio Lower Upper
45 100
46 61.7 16.4 65.8

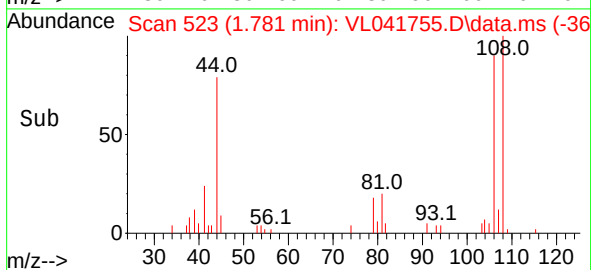
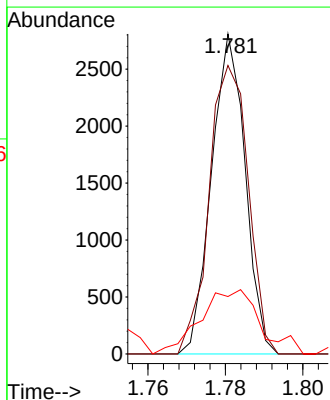
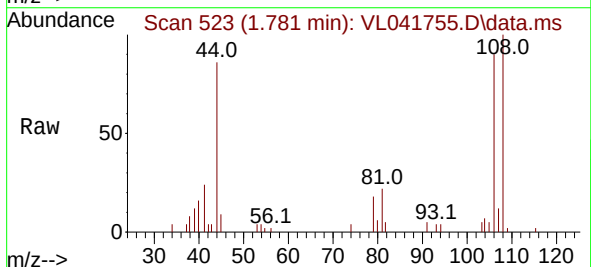
Manual Integrations
APPROVED

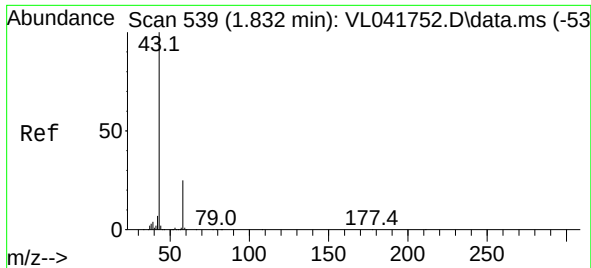
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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#





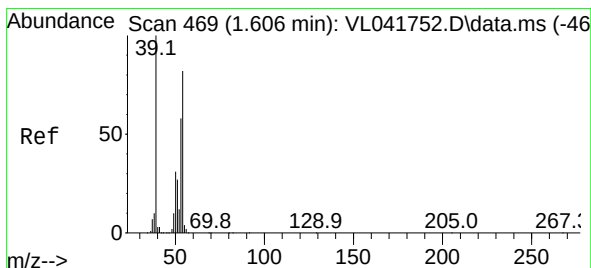
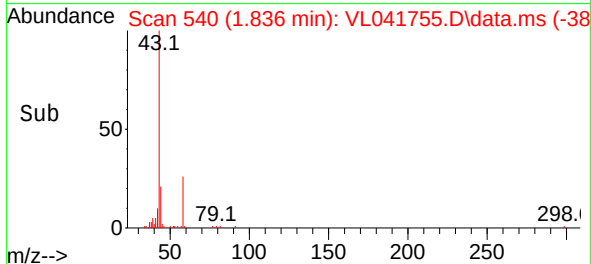
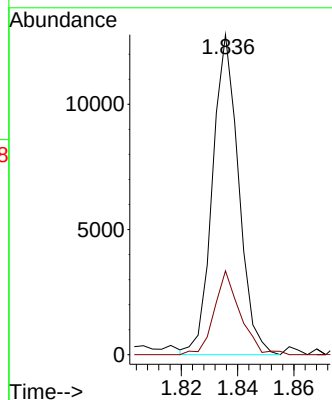
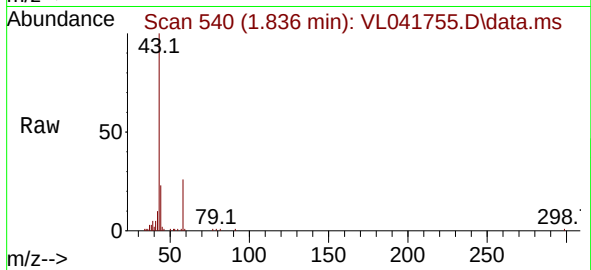
#15
Acetone
Concen: 0.636 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 823
Ion Ratio Lower Upper
43 100
58 26.0 19.7 29.5

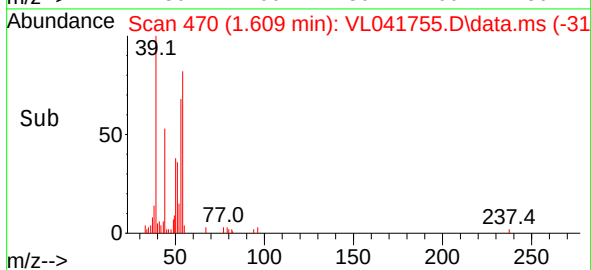
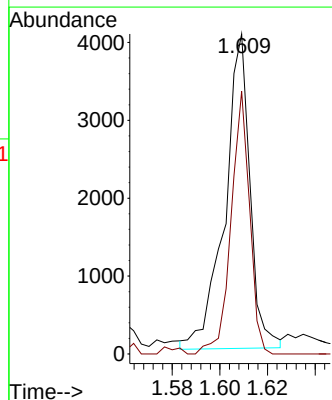
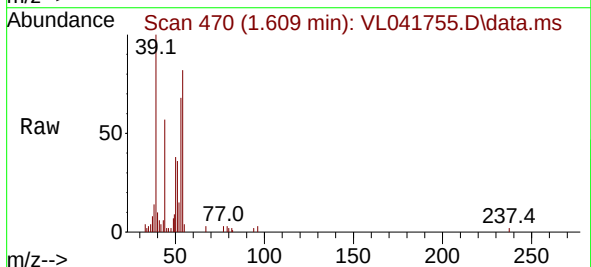
Manual Integrations
APPROVED

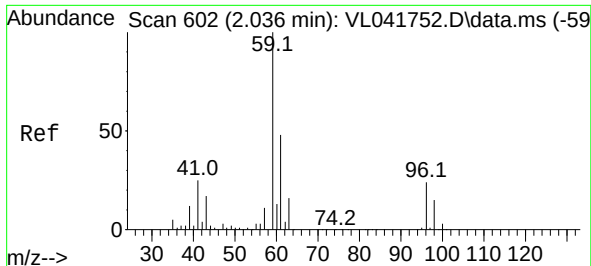
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDIC0.5

Tgt Ion: 59 Resp: 665

Ion Ratio Lower Upper

59 100

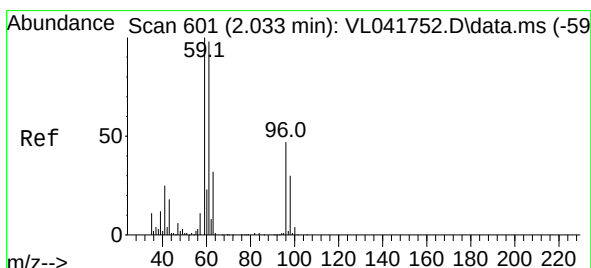
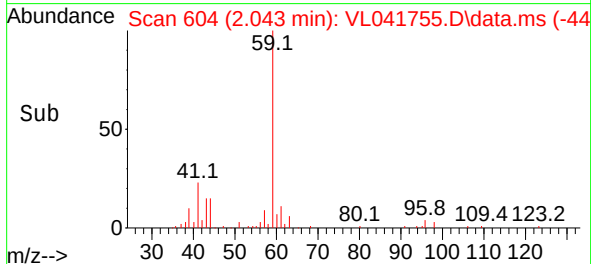
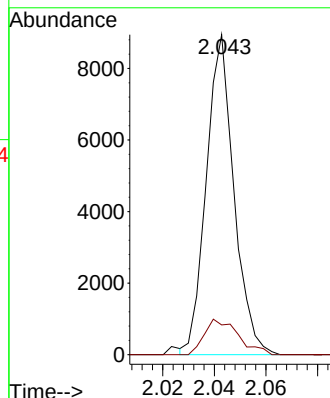
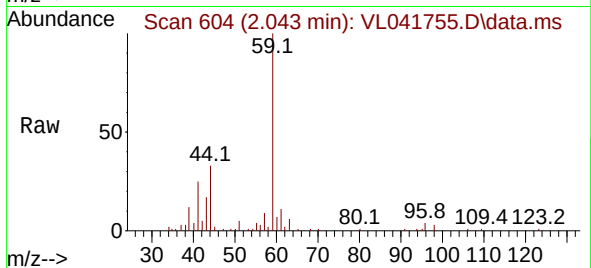
57 14.3 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#18

1,1-Dichloroethene

Concen: 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

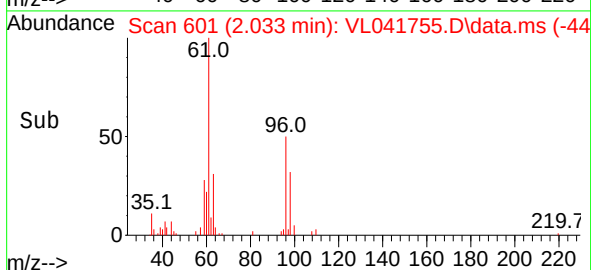
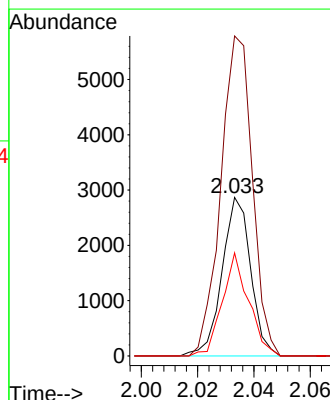
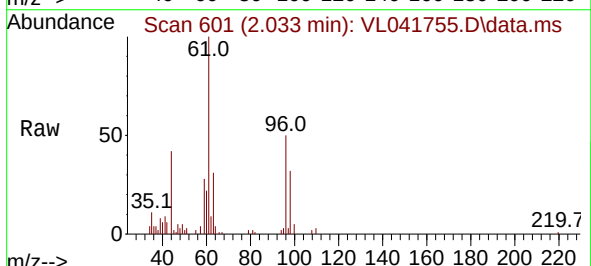
Tgt Ion: 96 Resp: 2022

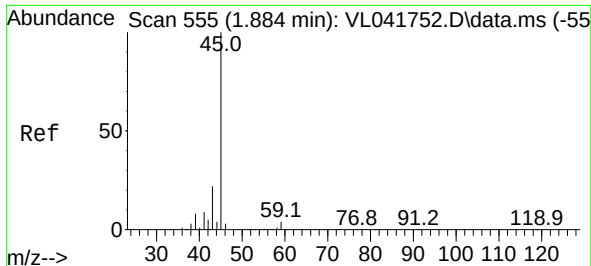
Ion Ratio Lower Upper

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_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 45 Resp: 568

Ion Ratio Lower Upper

45 100

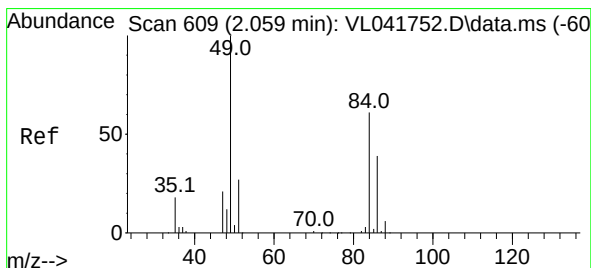
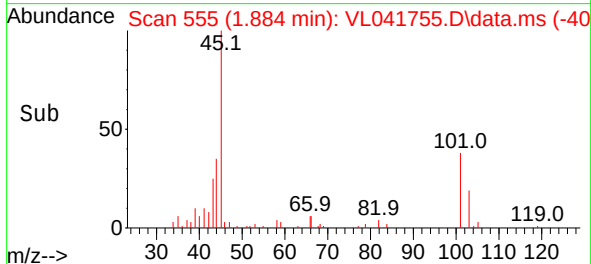
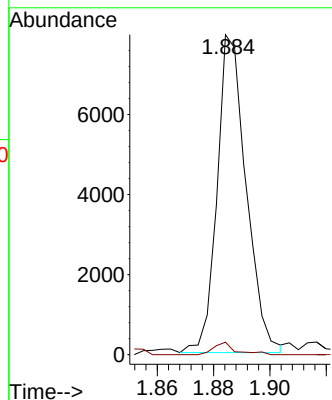
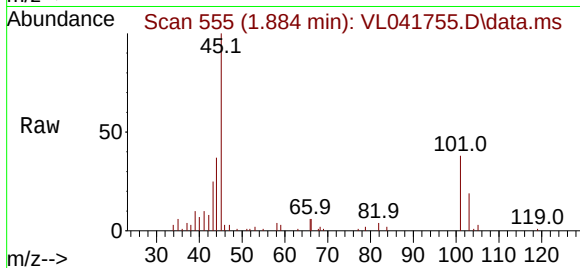
58 2.9 33.3 49.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#20

Methylene Chloride

Concen: 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

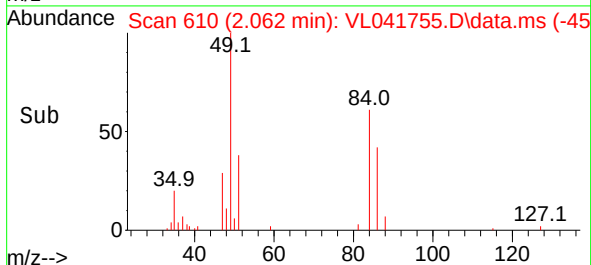
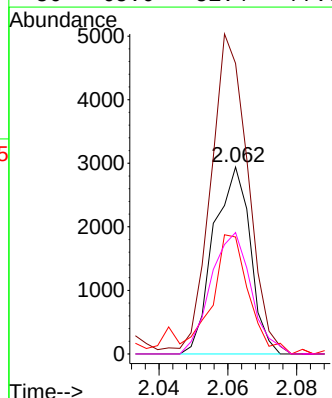
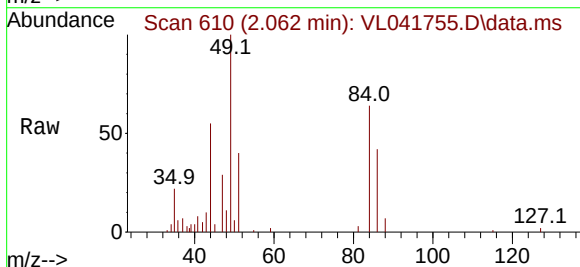
Ion Ratio Lower Upper

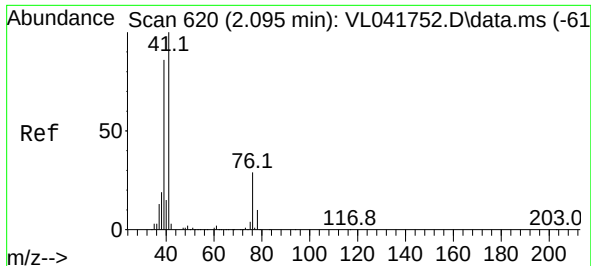
84 100

49 152.6 132.6 198.8

51 57.2 37.6 56.4

86 65.0 51.4 77.0





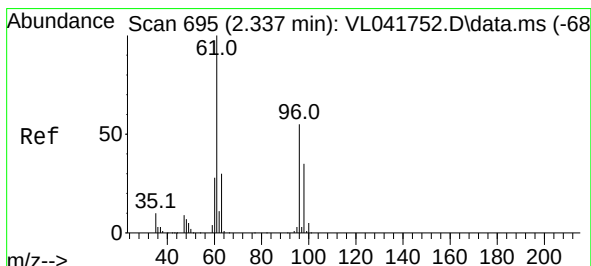
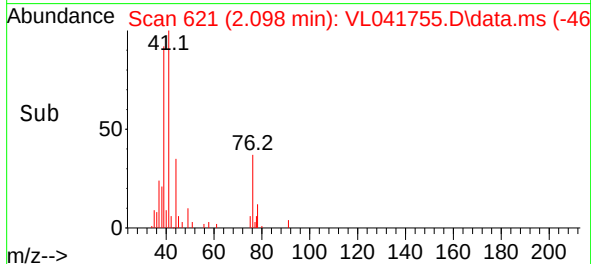
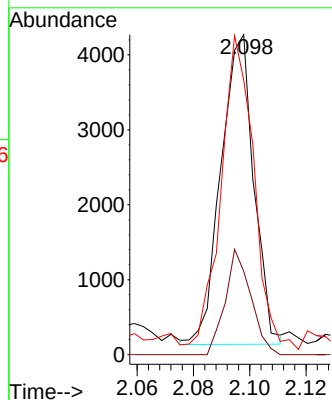
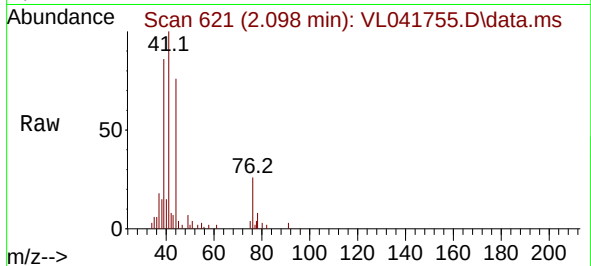
#21
 Allyl Chloride
 Concen: 0.478 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 335
 Ion Ratio Lower Upper
 41 100
 76 26.5 22.3 33.5
 39 102.6 69.2 103.8

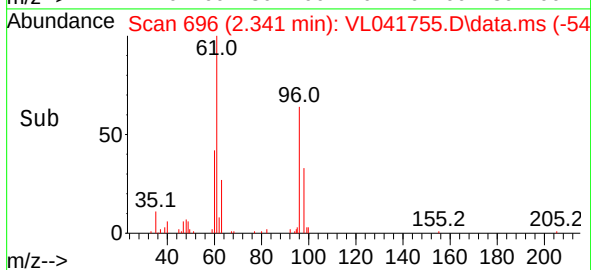
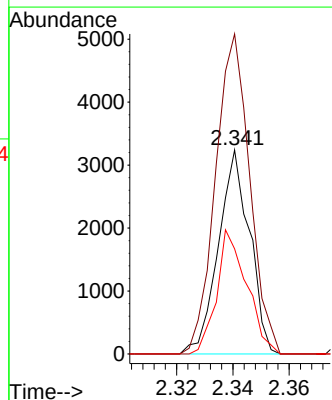
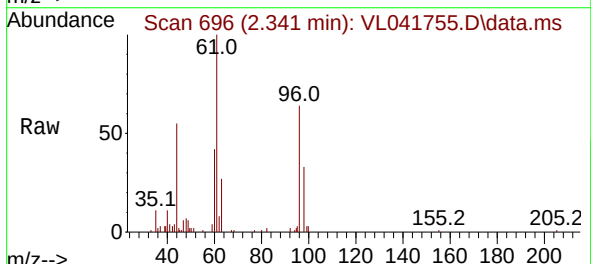
Manual Integrations
 APPROVED

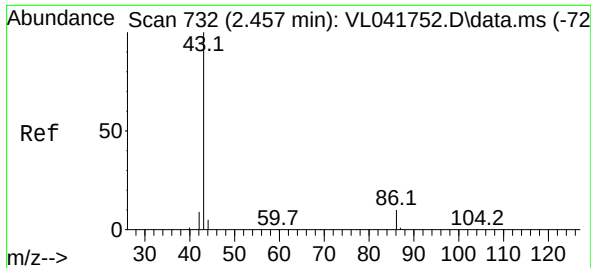
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#22
 trans-1,2-Dichloroethene
 Concen: 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 :

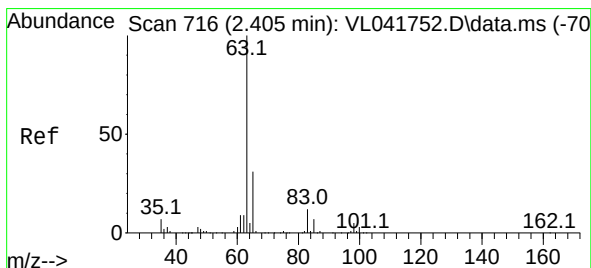
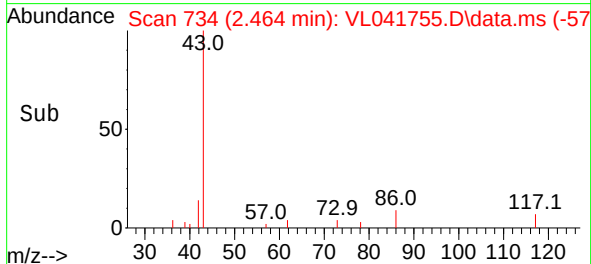
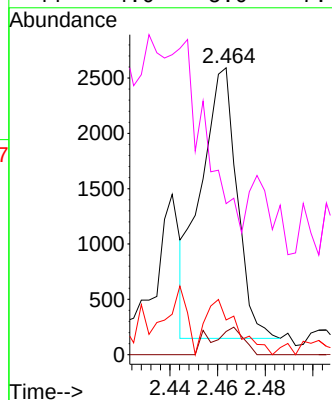
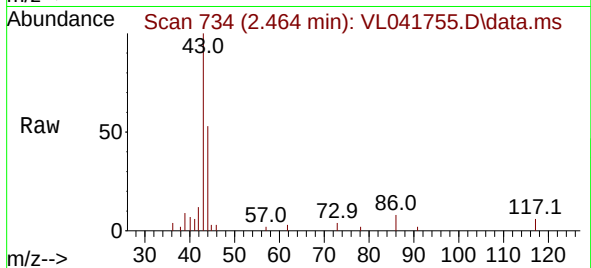
VSTDICC0.5

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

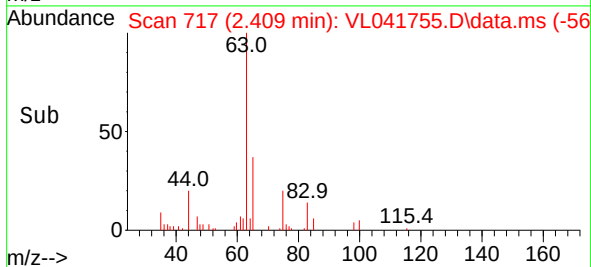
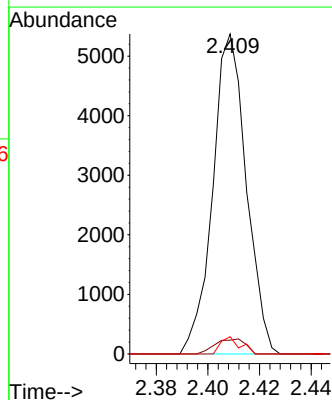
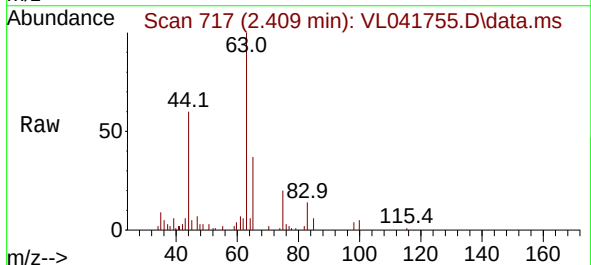
APPROVED

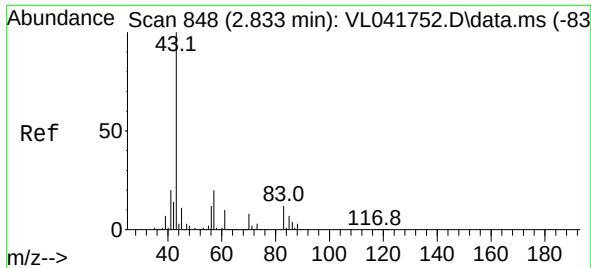
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

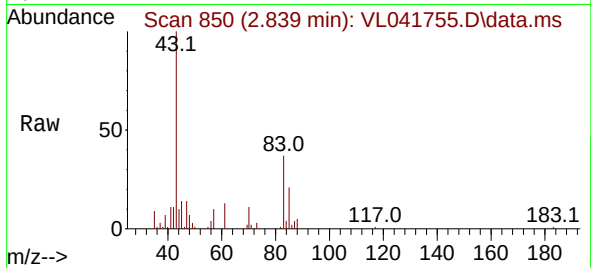
Tgt Ion: 63 Resp: 4854
 Ion Ratio Lower Upper
 63 100
 98 4.3 2.3 6.8
 100 5.4 1.4 4.2#





#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

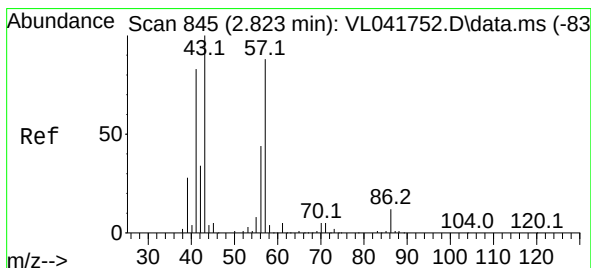
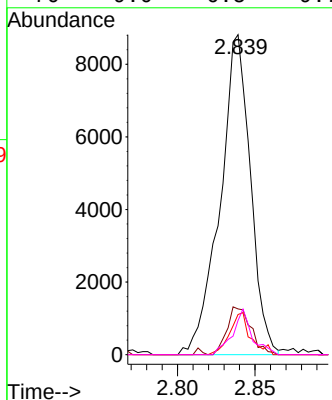
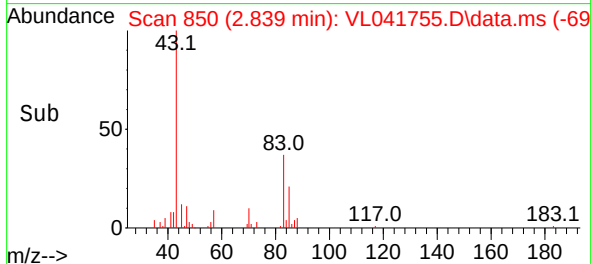
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



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

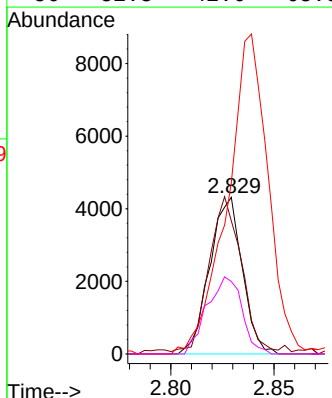
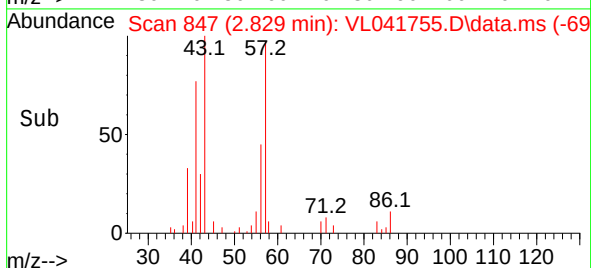
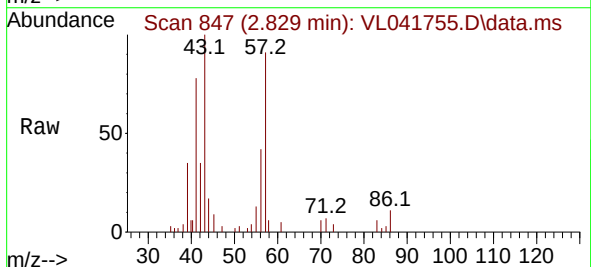
Manual Integrations
APPROVED

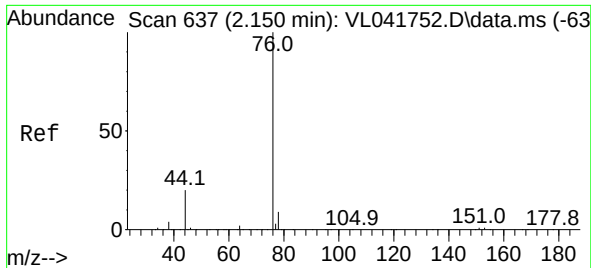
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

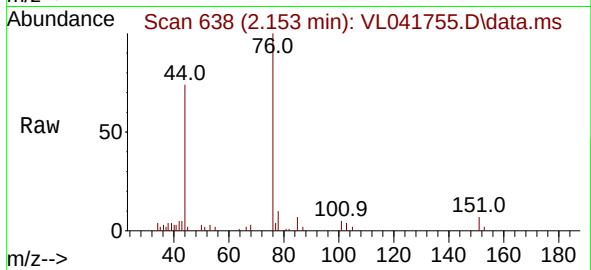
Tgt Ion: 57	Resp: 4735
Ion Ratio	Lower Upper
57 100	
41 106.1	79.6 119.4
43 258.2	211.0 316.6
56 52.8	42.6 63.8





#27
Carbon Disulfide
Concen: 0.414 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

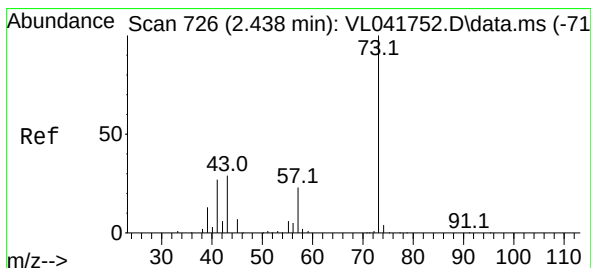
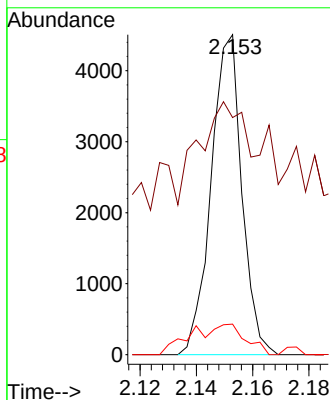
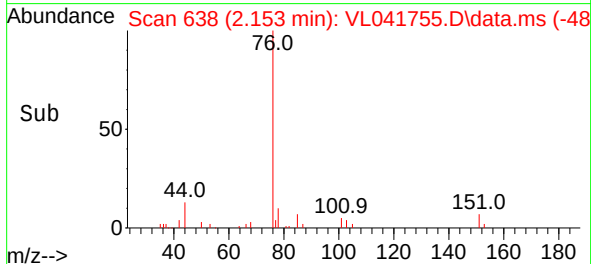
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

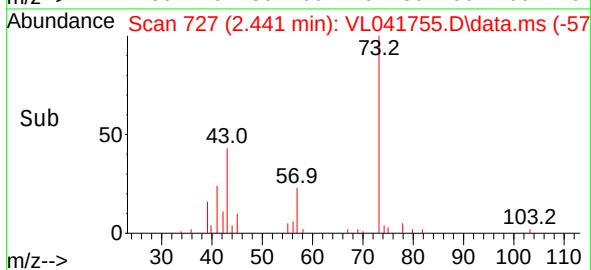
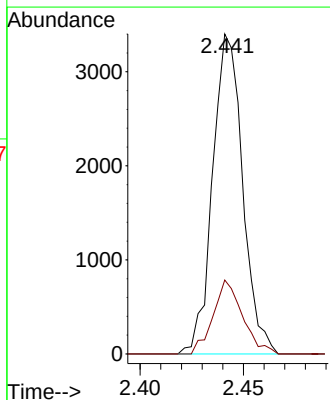
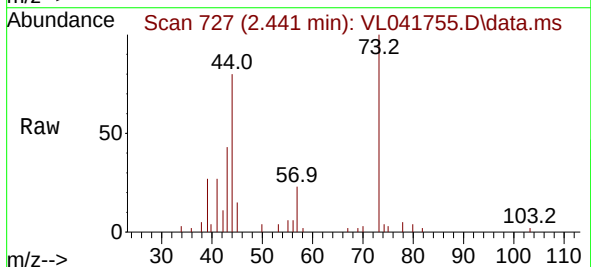
Manual Integrations
APPROVED

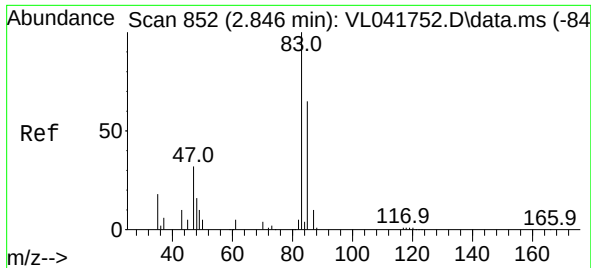
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDIC0.5

Tgt Ion: 83 Resp: 7172

Ion Ratio Lower Upper

83 100

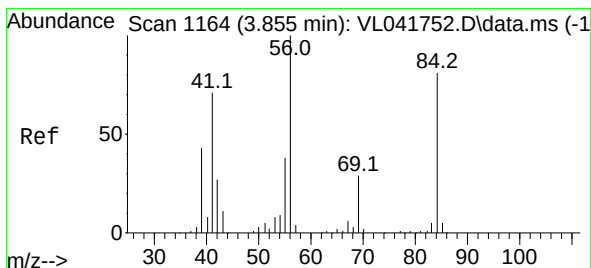
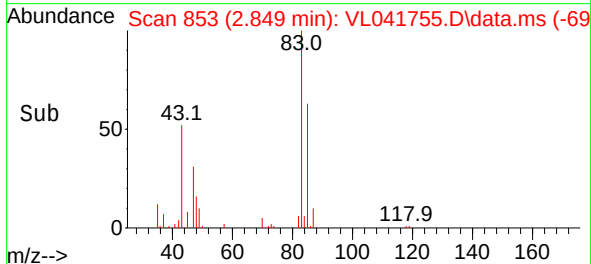
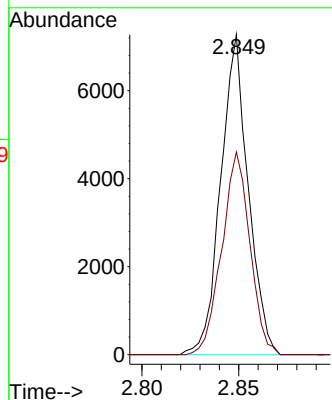
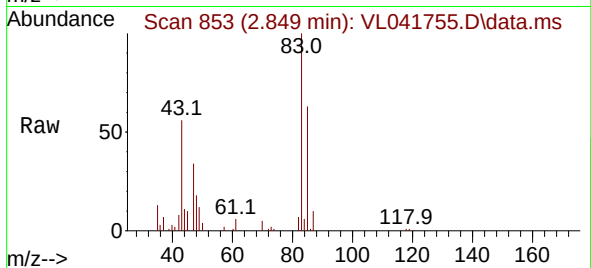
85 63.3 51.8 77.6

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

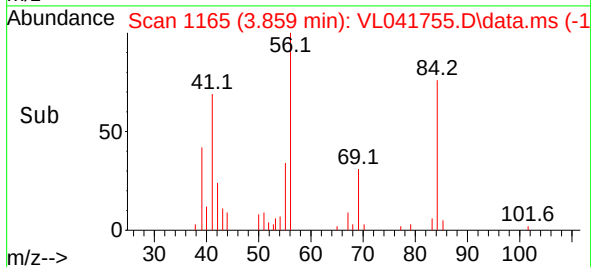
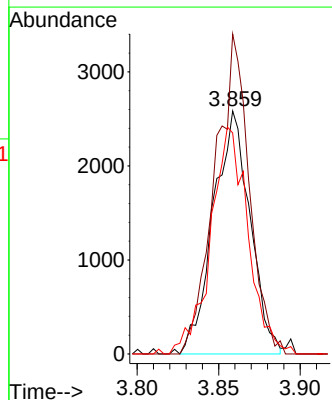
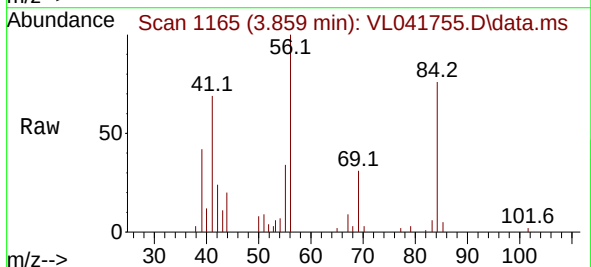
Tgt Ion: 84 Resp: 4051

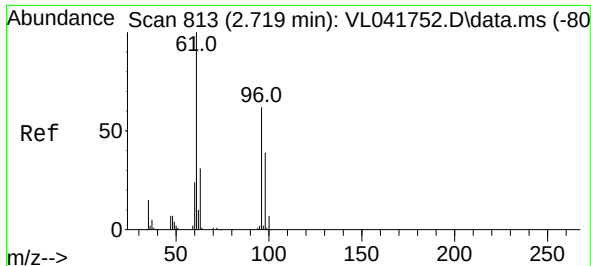
Ion Ratio Lower Upper

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 :

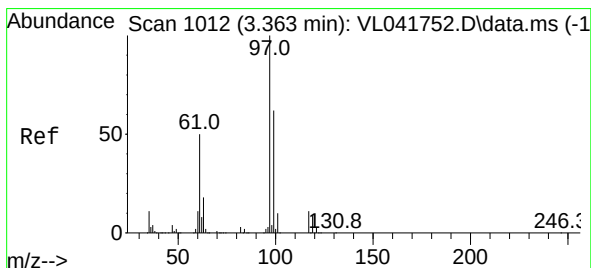
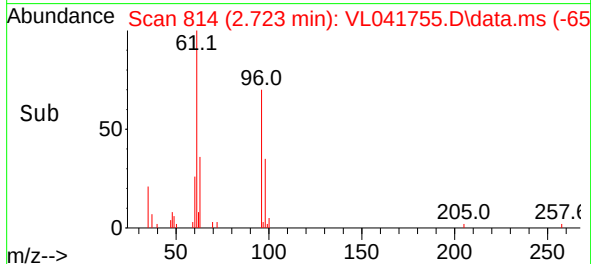
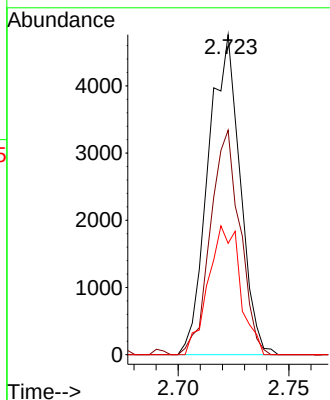
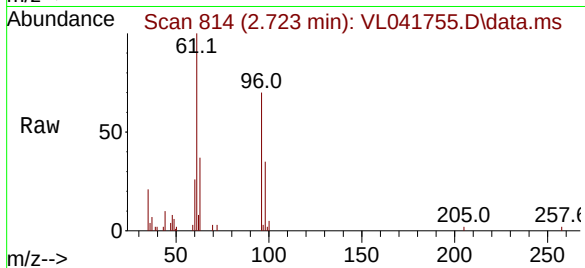
VSTDIC0.5

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

Manual Integrations

APPROVED

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



#32

1,1,1-Trichloroethane

Concen: 0.518 ppbv

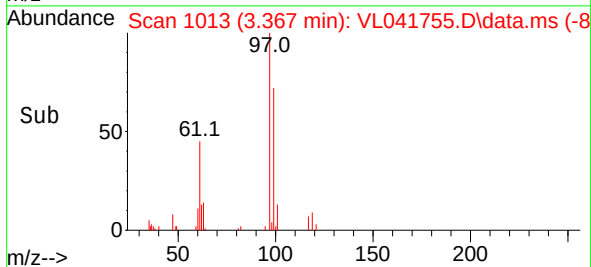
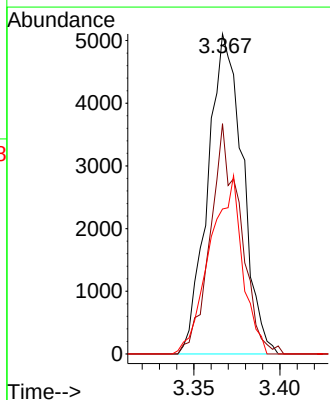
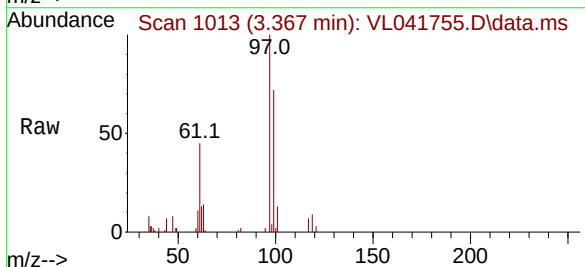
RT: 3.367 min Scan# 1013

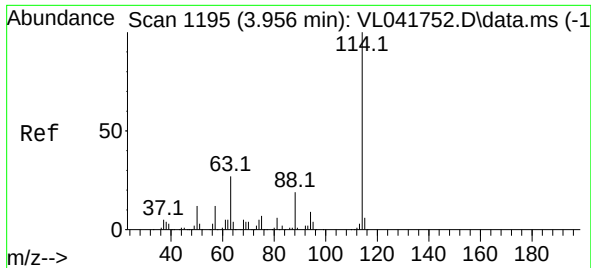
Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

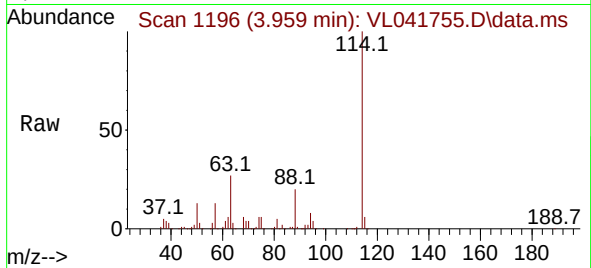
Tgt Ion:	97	Resp:	7182
Ion Ratio	Lower	Upper	
97	100		
99	62.2	51.0	76.4
61	52.1	42.2	63.2





#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

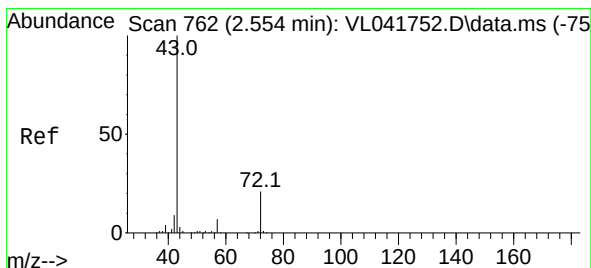
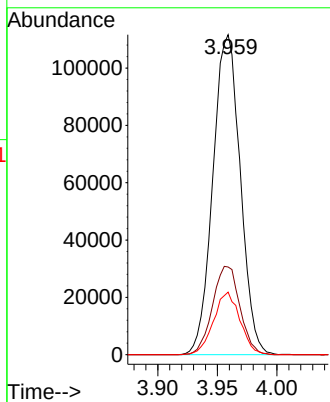
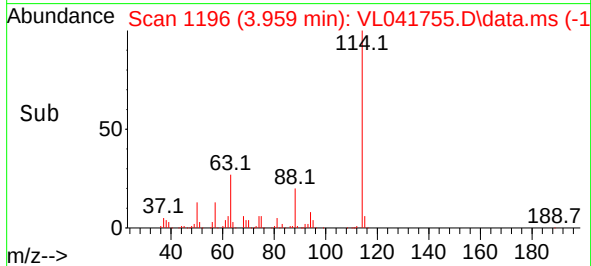
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



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

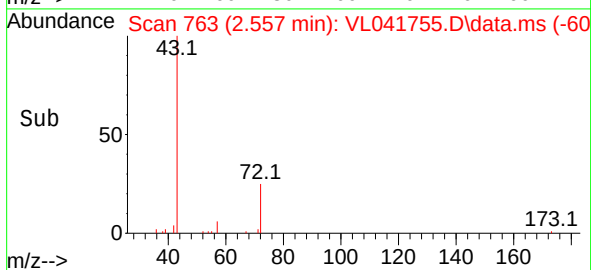
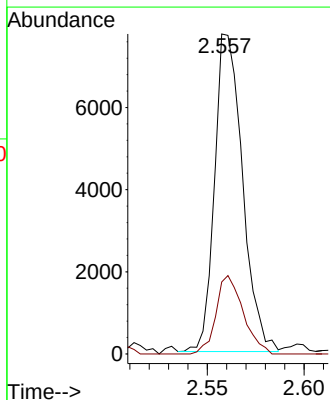
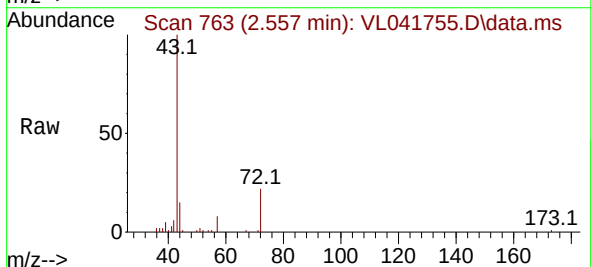
Manual Integrations
APPROVED

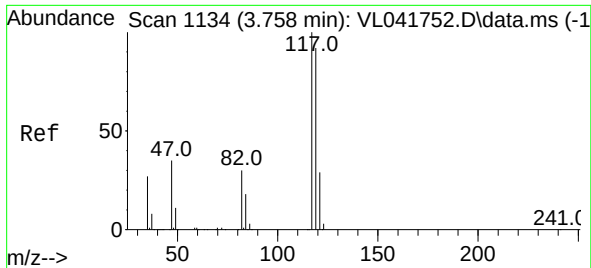
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

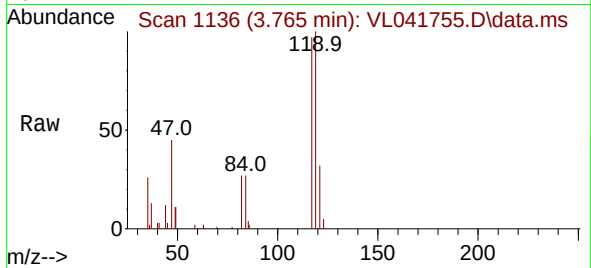
Tgt Ion: 43 Resp: 7756
Ion Ratio Lower Upper
43 100
72 24.0 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.446 ppbv
RT: 3.765 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

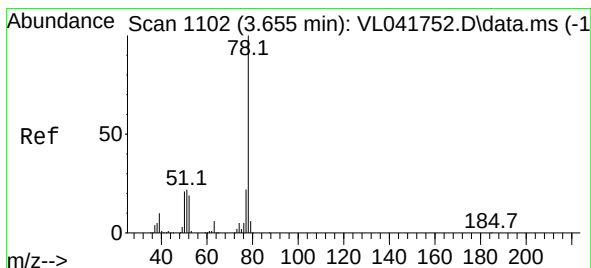
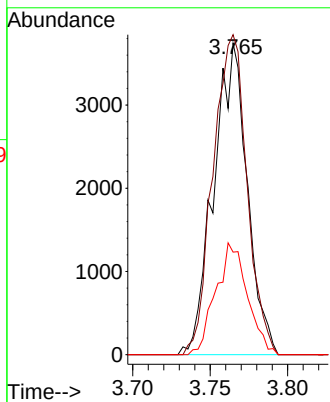
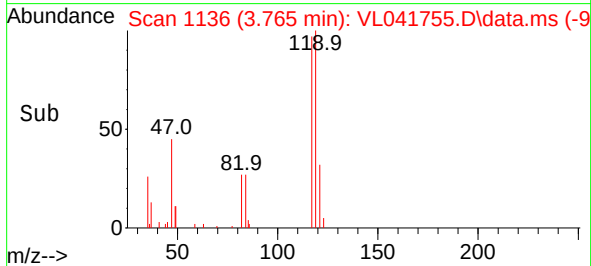
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

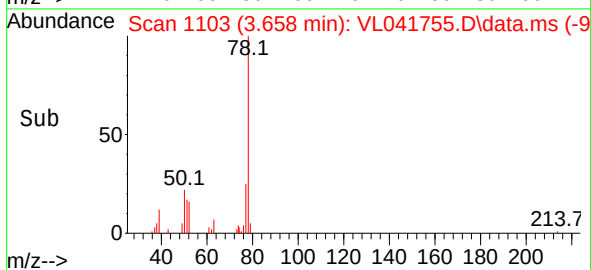
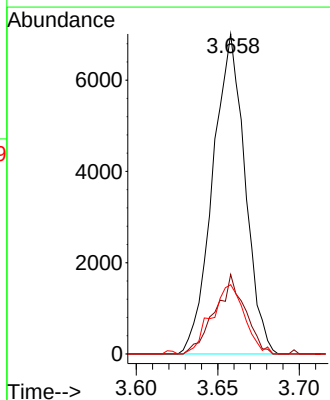
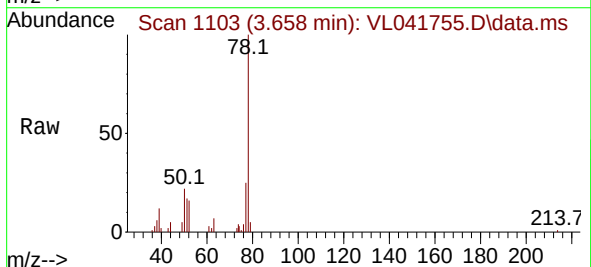
Manual Integrations
APPROVED

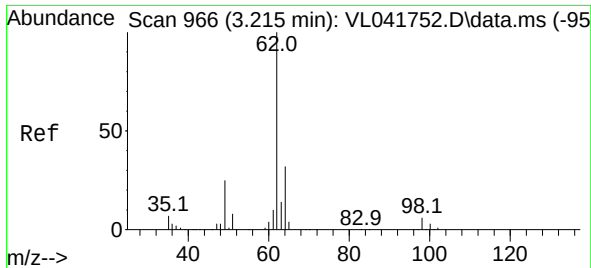
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





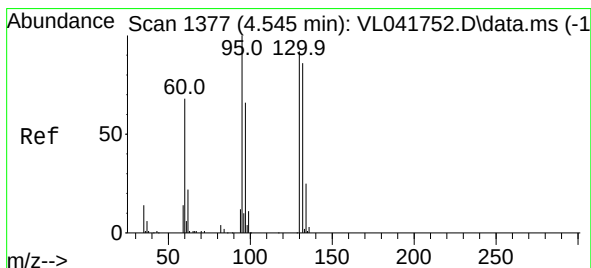
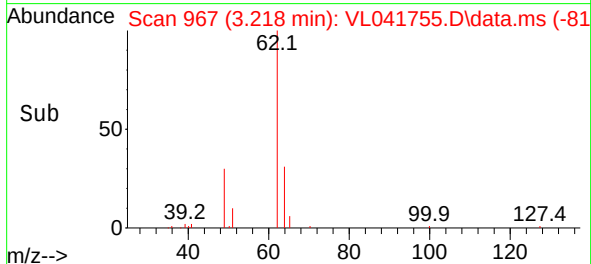
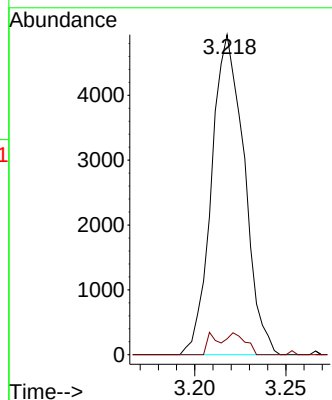
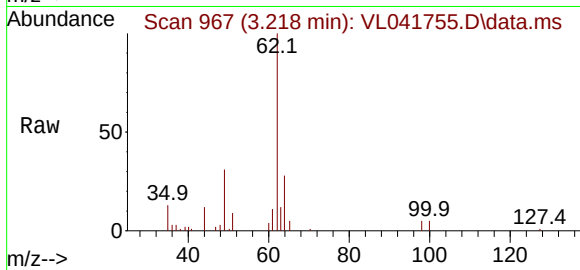
#37
1,2-Dichloroethane
Concen: 0.536 ppbv
RT: 3.218 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 615
Ion Ratio Lower Upper
62 100
98 6.3 4.7 7.1

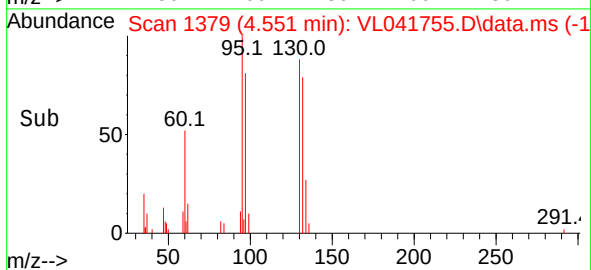
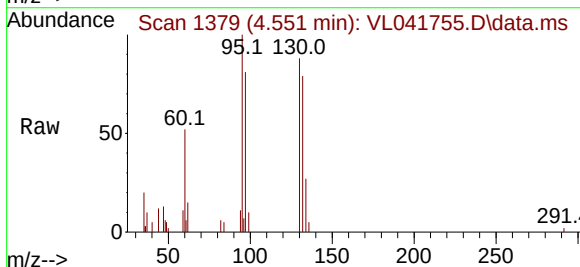
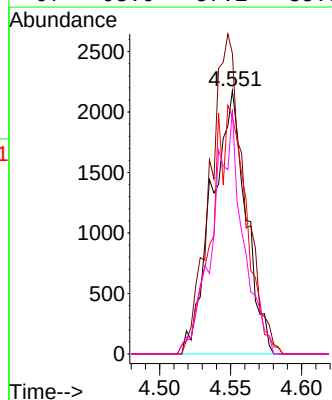
Manual Integrations
APPROVED

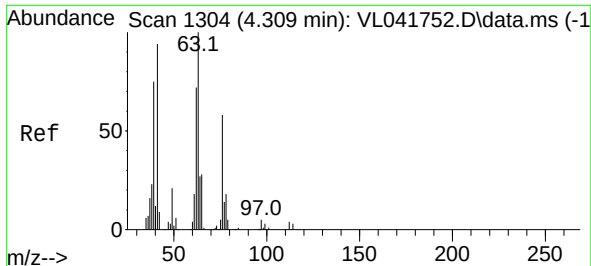
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

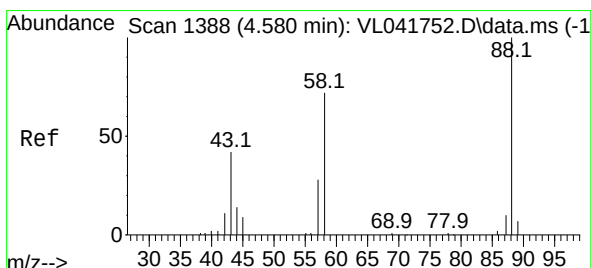
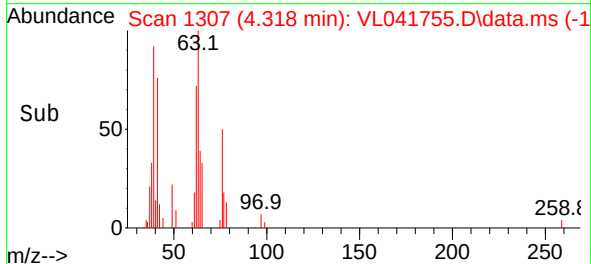
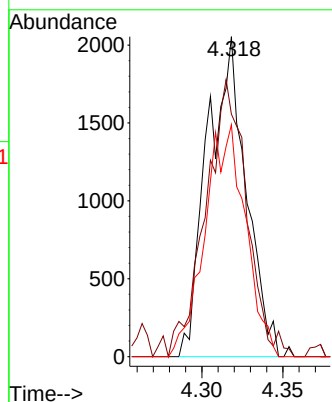
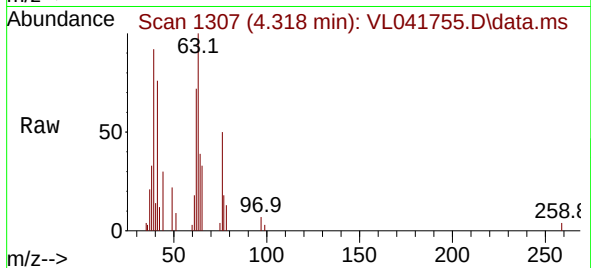
VSTDIC0.5

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

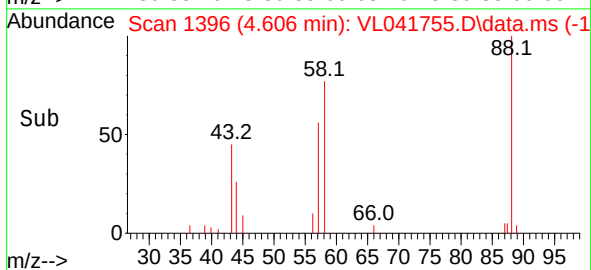
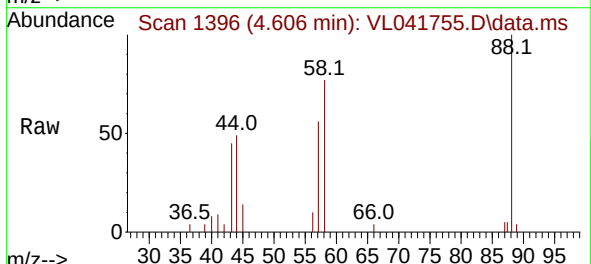
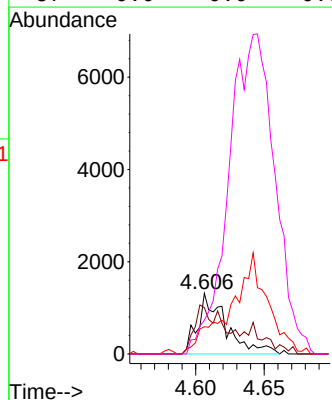
RT: 4.606 min Scan# 1396

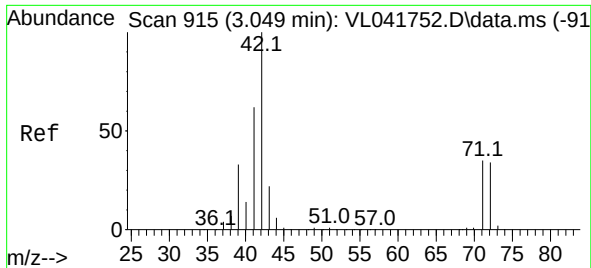
Delta R.T. 0.026 min

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





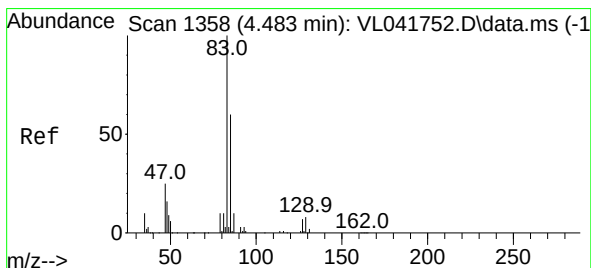
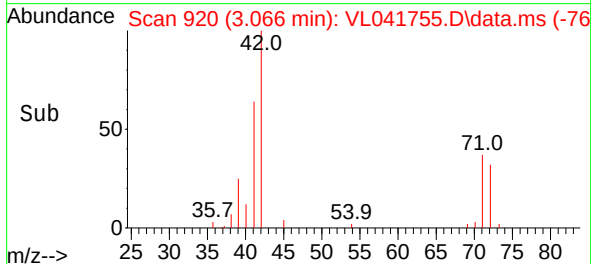
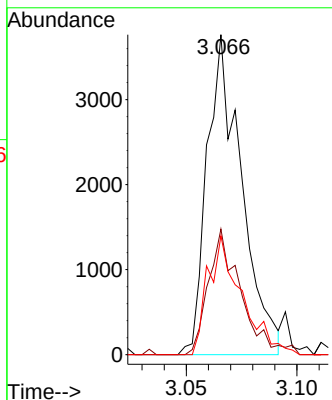
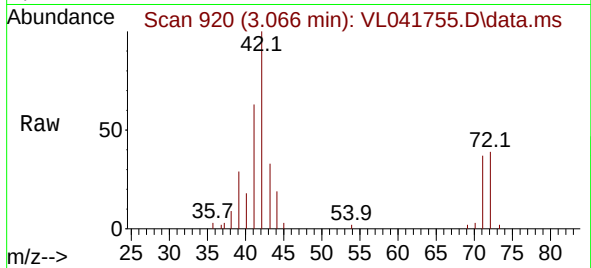
#41
Tetrahydrofuran
Concen: 0.505 ppbv
RT: 3.066 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

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

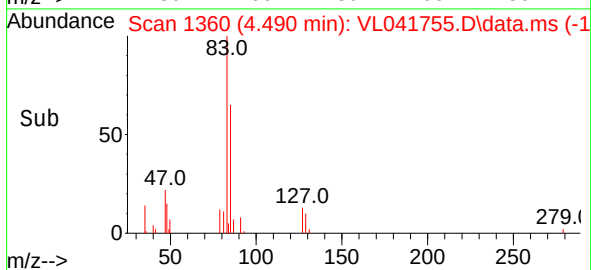
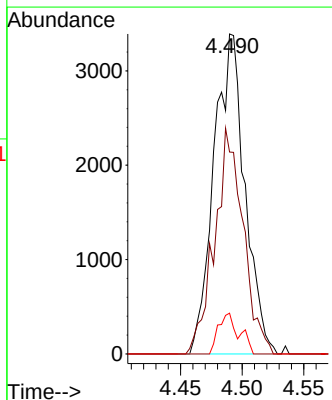
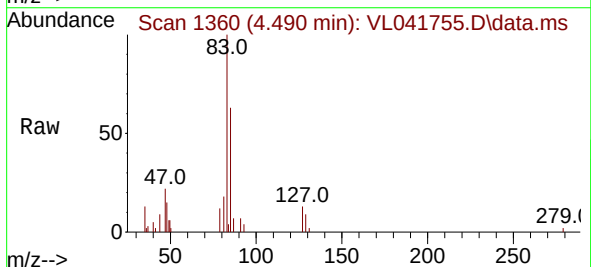
Manual Integrations
APPROVED

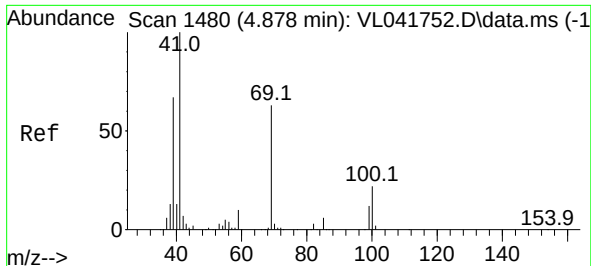
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

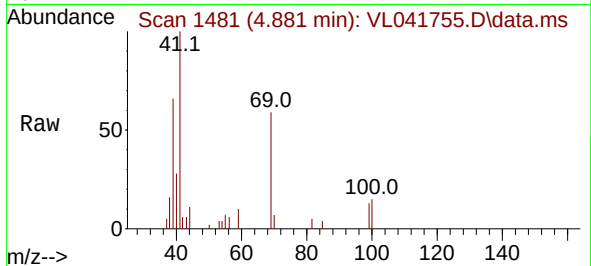
Tgt Ion: 83 Resp: 5926
Ion Ratio Lower Upper
83 100
85 63.1 48.0 72.0
127 12.7 5.8 8.8#





#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

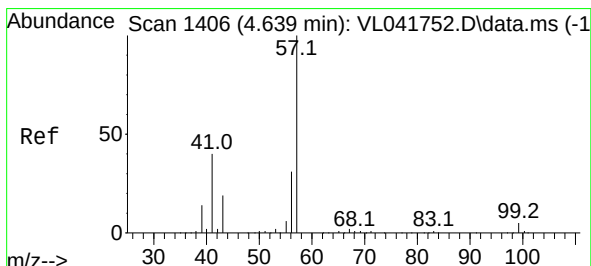
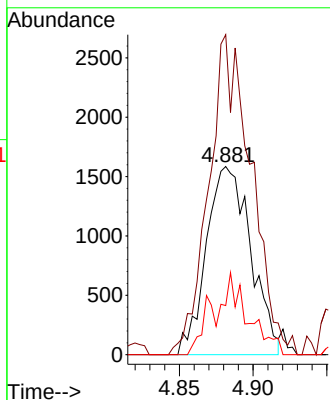
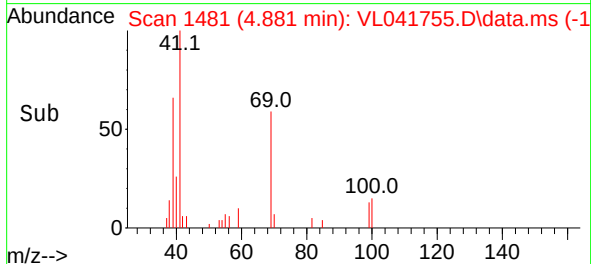
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



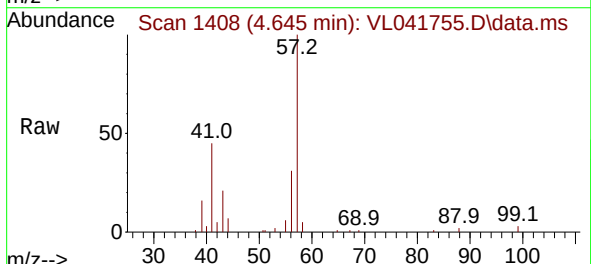
Tgt Ion: 69 Resp: 332
Ion Ratio Lower Upper
69 100
41 163.7 130.3 195.5
100 33.2 28.3 42.5

Manual Integrations
APPROVED

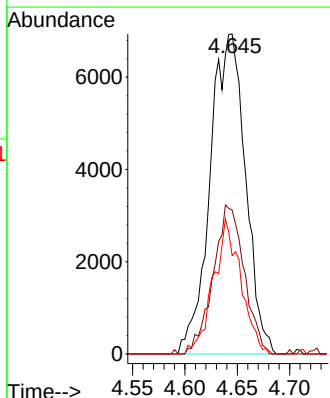
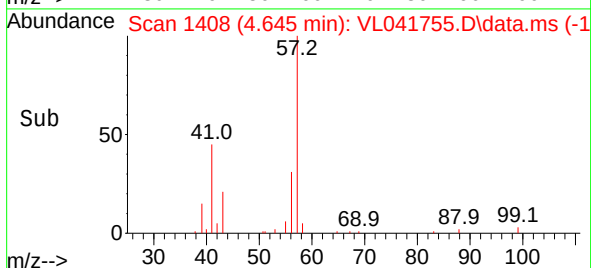
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

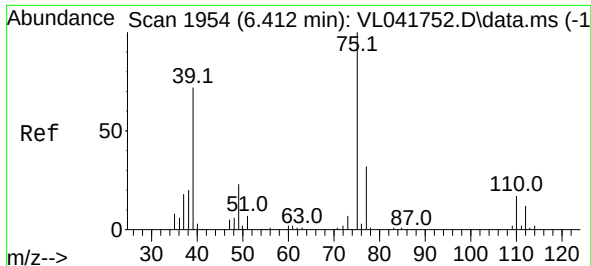


#44
2,2,4-Trimethylpentane
Concen: 0.517 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05



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

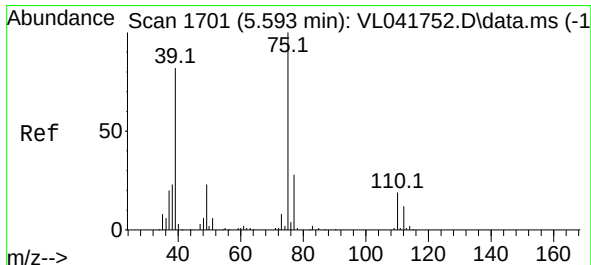
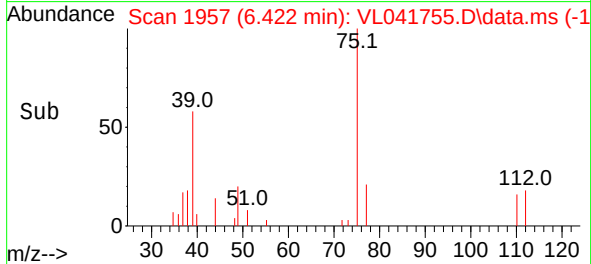
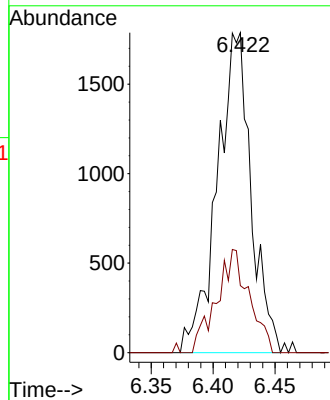
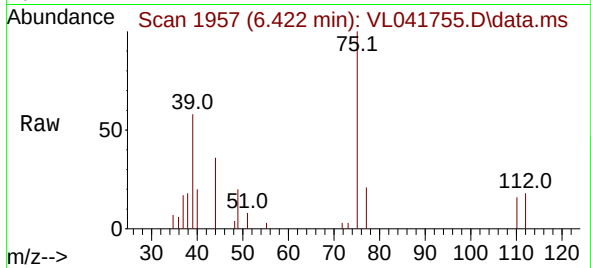
77 20.9 25.9 38.9

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

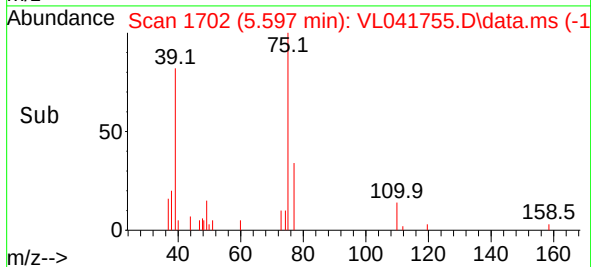
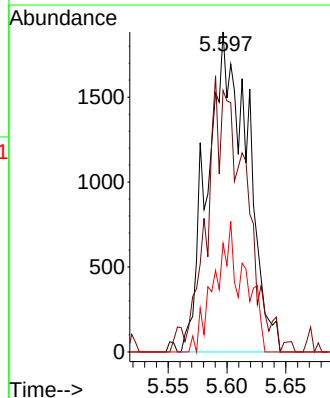
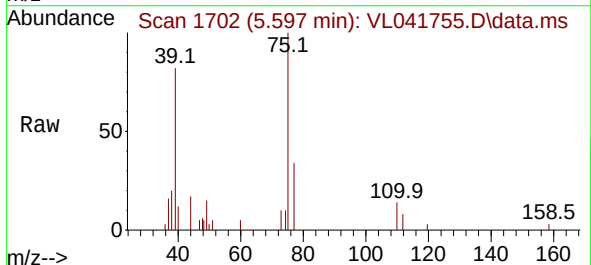
Tgt Ion: 75 Resp: 4462

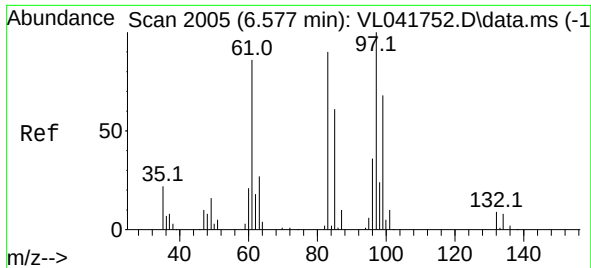
Ion Ratio Lower Upper

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

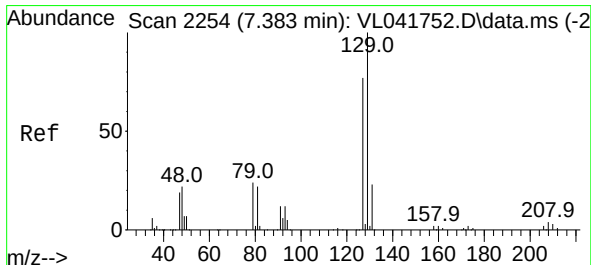
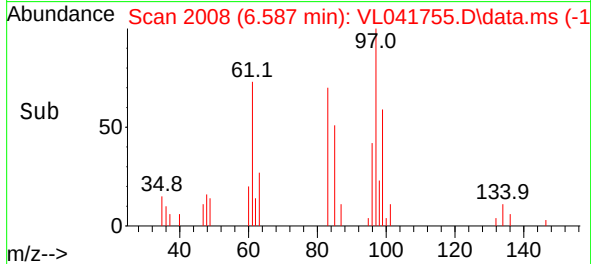
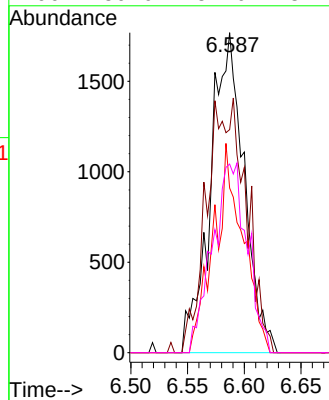
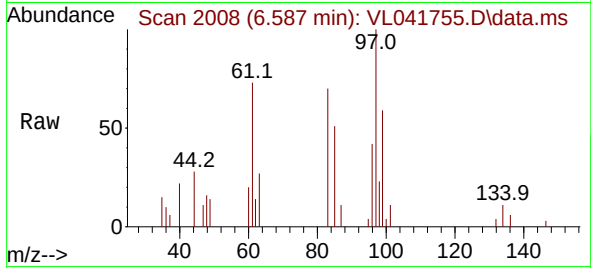
99 59.0 54.0 81.0

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

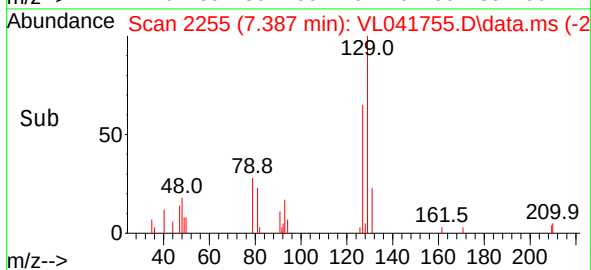
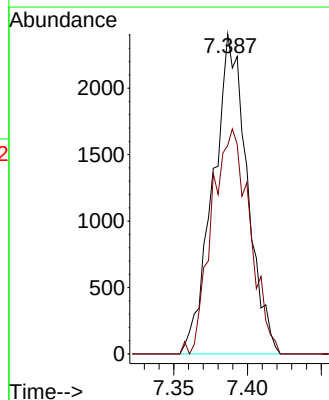
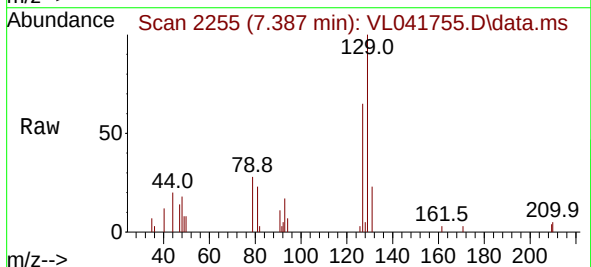
Acq: 16 Dec 2024 15:05

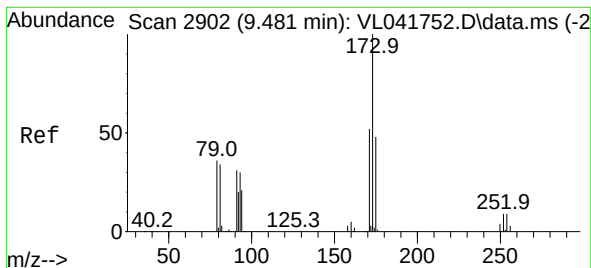
Tgt Ion:129 Resp: 3865

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 :

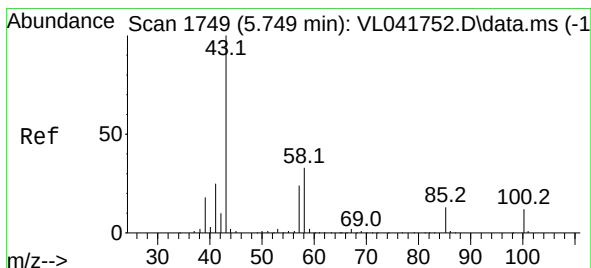
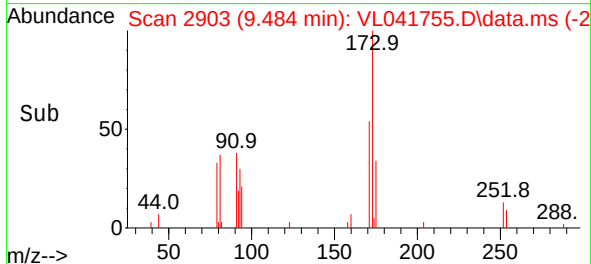
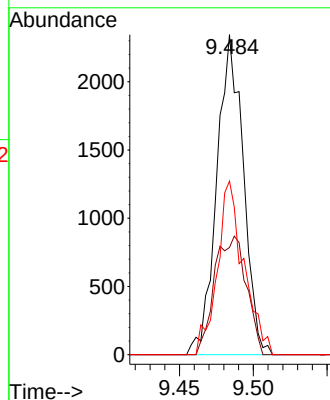
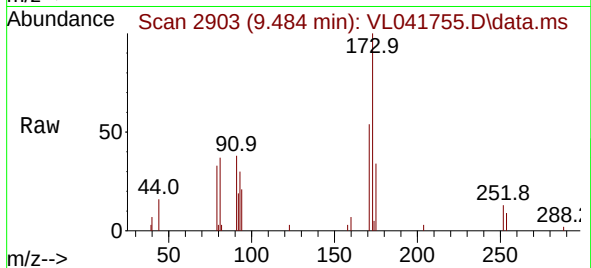
VSTDICC0.5

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

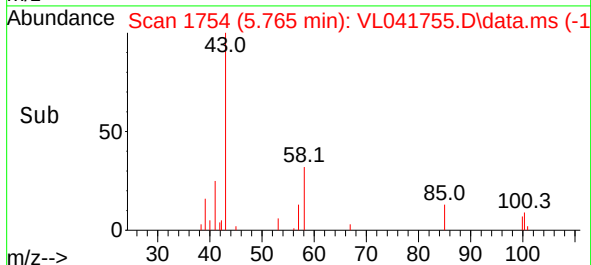
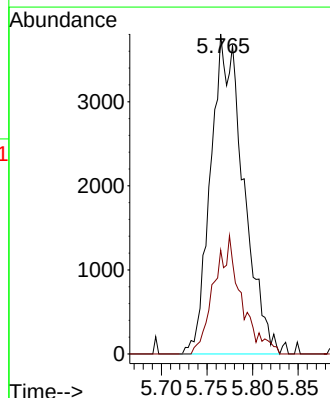
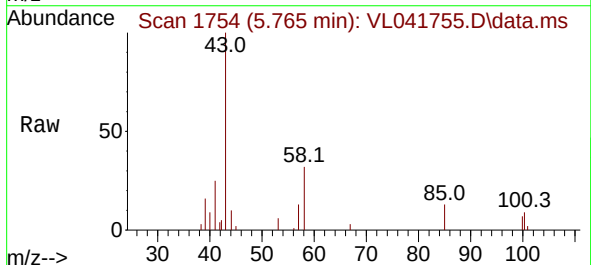
RT: 5.765 min Scan# 1754

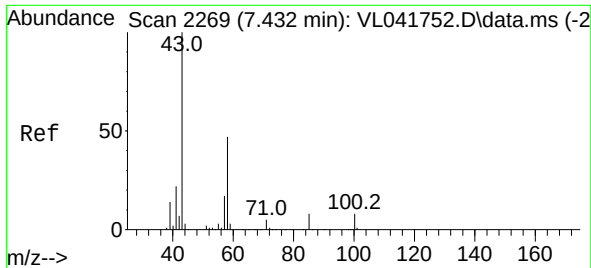
Delta R.T. 0.016 min

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#





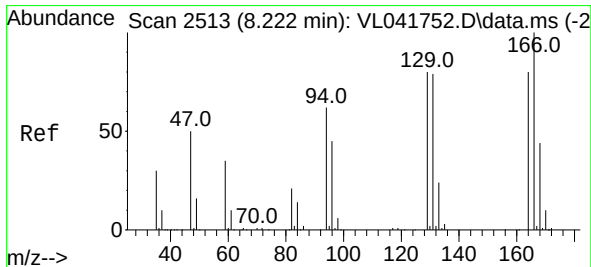
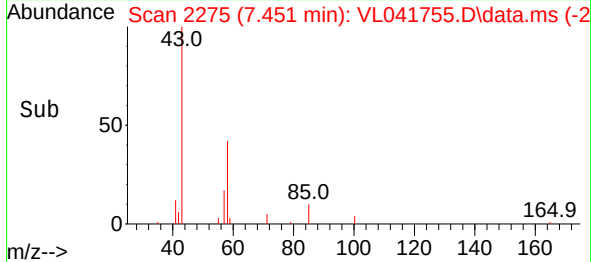
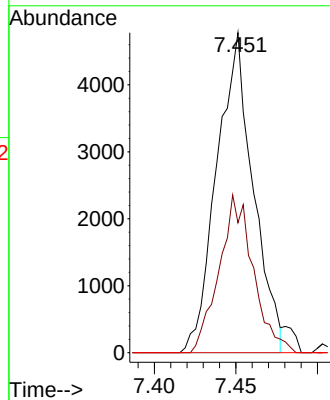
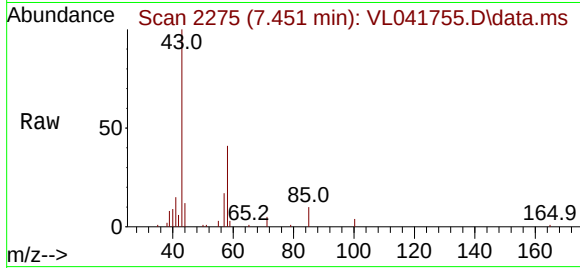
#51
2-Hexanone
Concen: 0.468 ppbv
RT: 7.451 min Scan# 2114
Delta R.T. 0.019 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

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

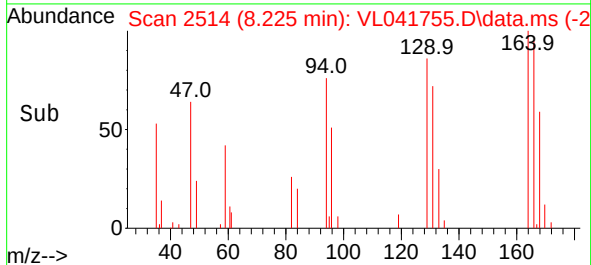
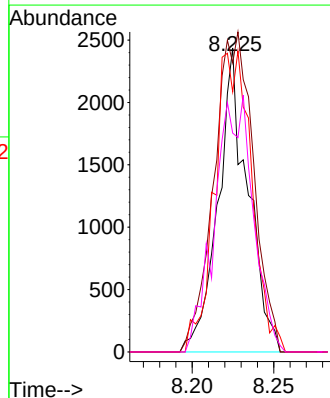
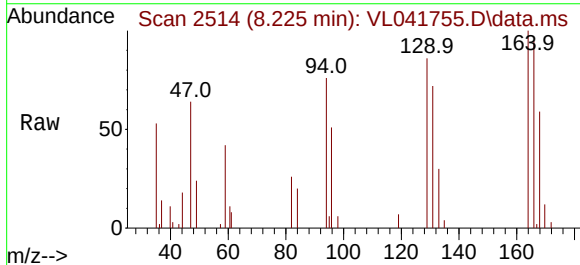
Manual Integrations
APPROVED

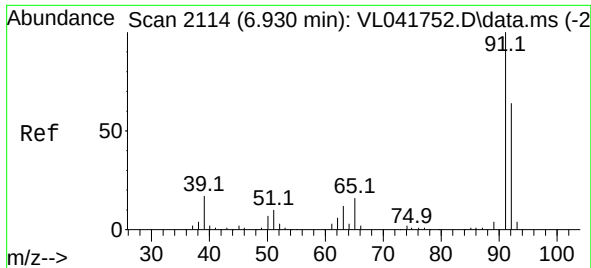
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

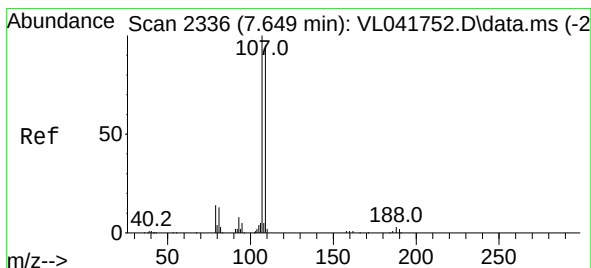
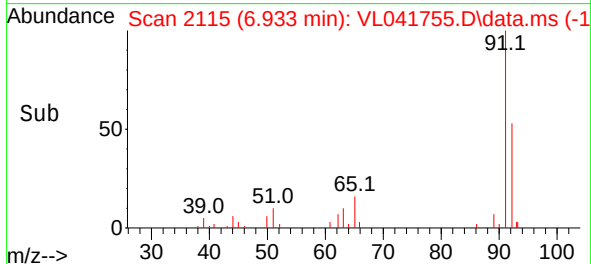
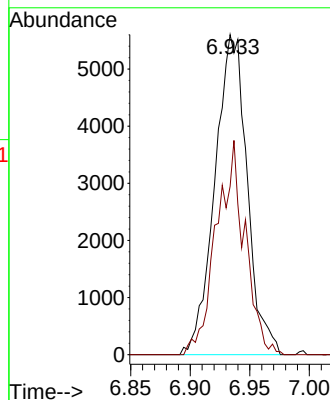
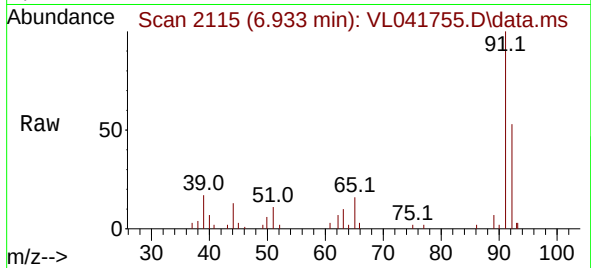
92 59.2 47.9 71.9

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

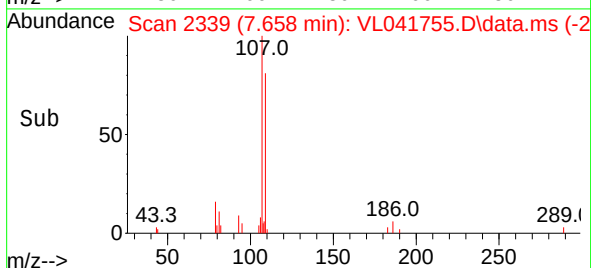
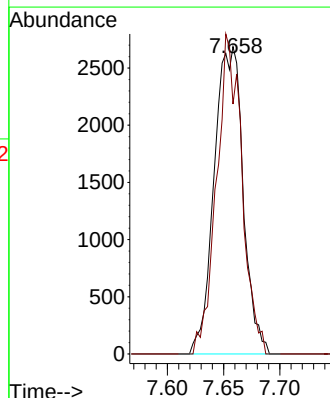
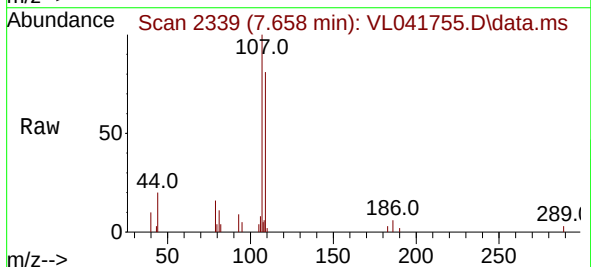
Acq: 16 Dec 2024 15:05

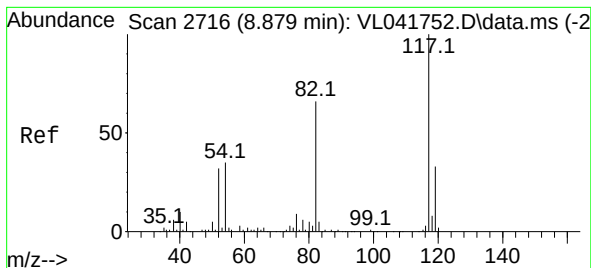
Tgt Ion:107 Resp: 4819

Ion Ratio Lower Upper

107 100

109 81.3 75.9 113.9





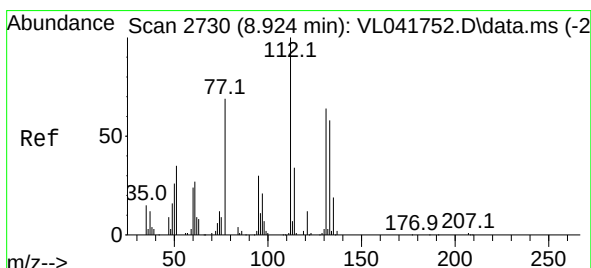
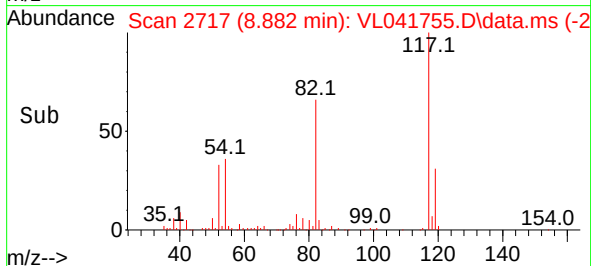
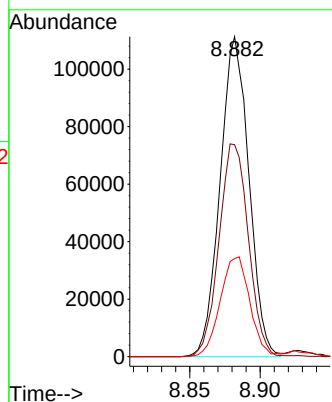
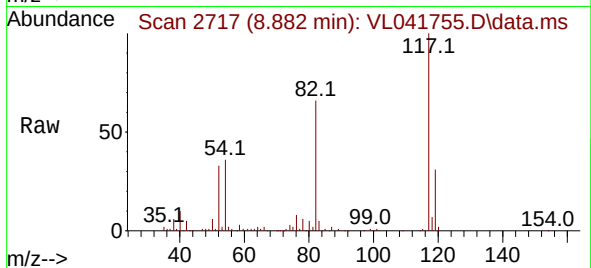
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

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

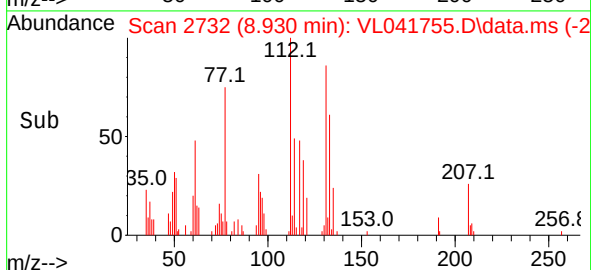
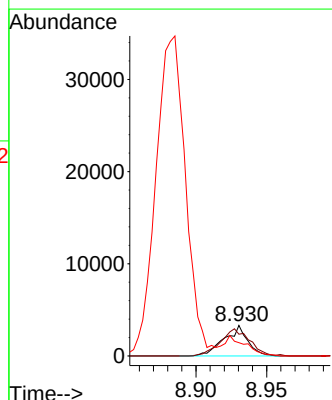
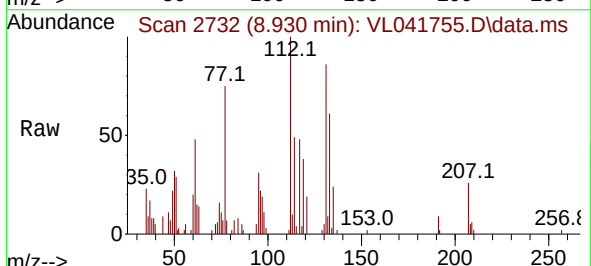
Manual Integrations
APPROVED

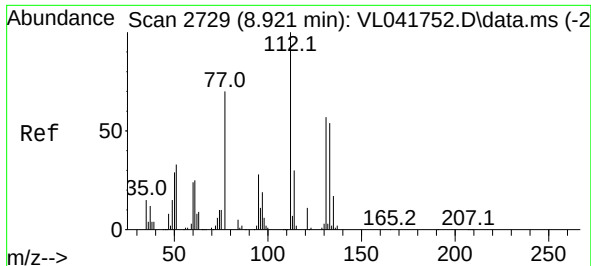
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

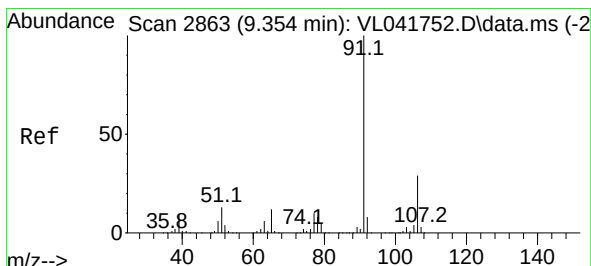
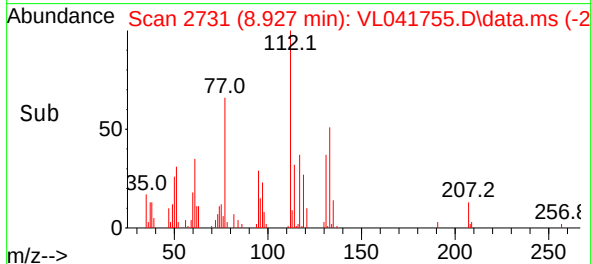
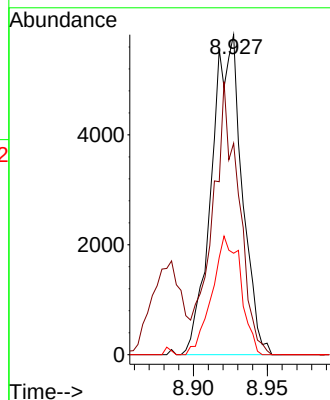
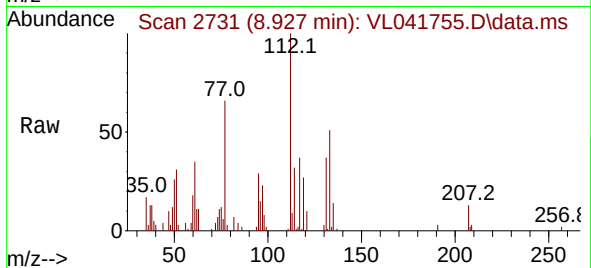
VSTDIC0.5

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

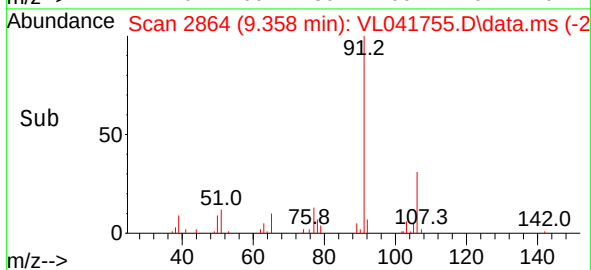
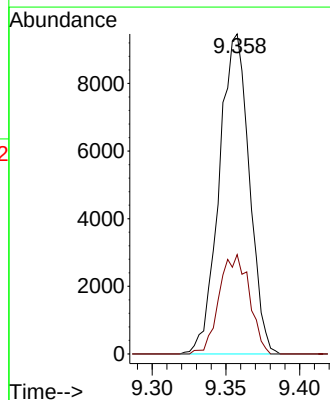
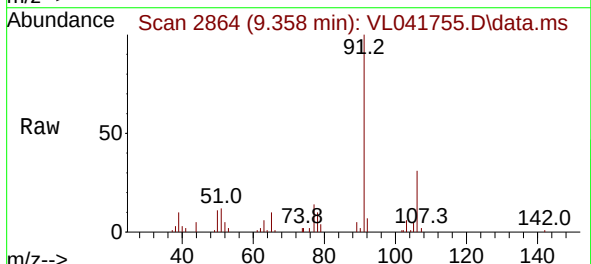
RT: 9.358 min Scan# 2864

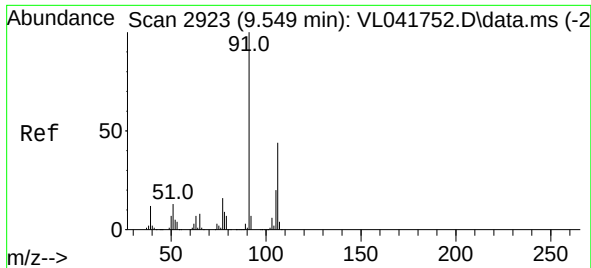
Delta R.T. 0.003 min

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# 2923

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

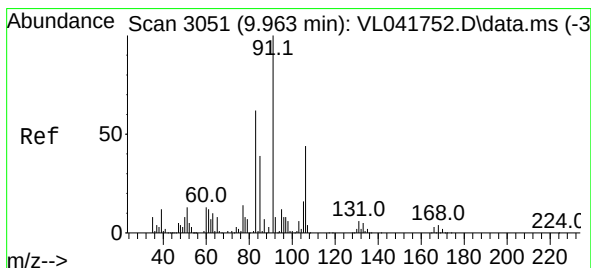
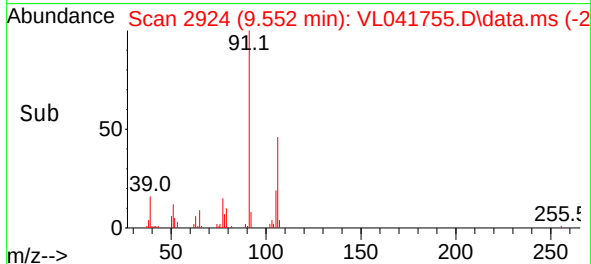
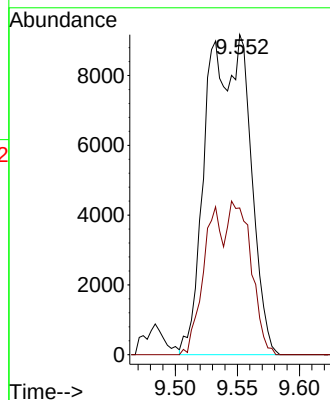
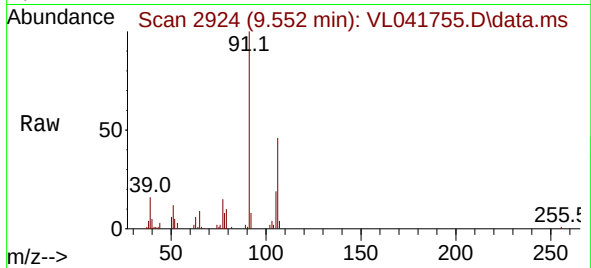
VSTDICC0.5

Tgt Ion: 91 Resp: 22560
 Ion Ratio Lower Upper
 91 100
 106 46.9 0.0 0.0

Manual Integrations

APPROVED

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



#60

o-Xylene

Concen: 0.476 ppbv

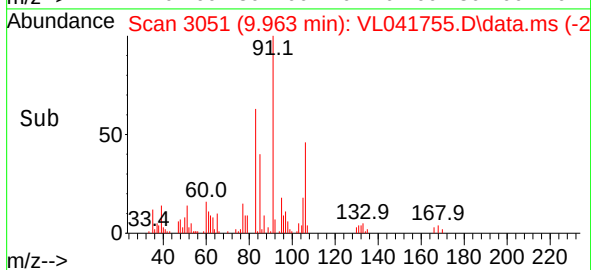
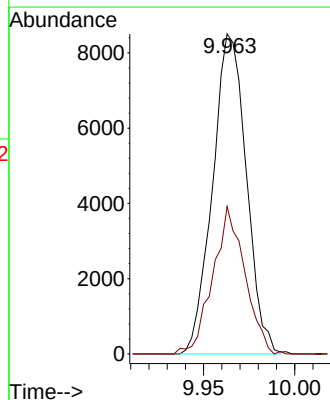
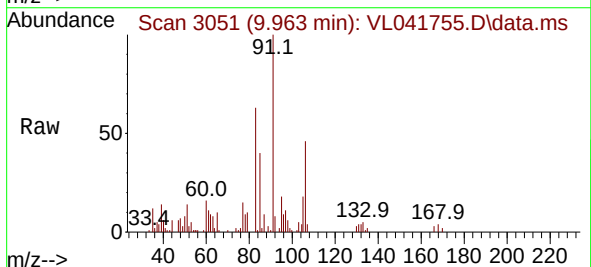
RT: 9.963 min Scan# 3051

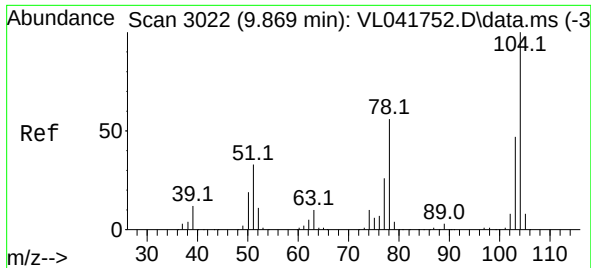
Delta R.T. -0.000 min

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





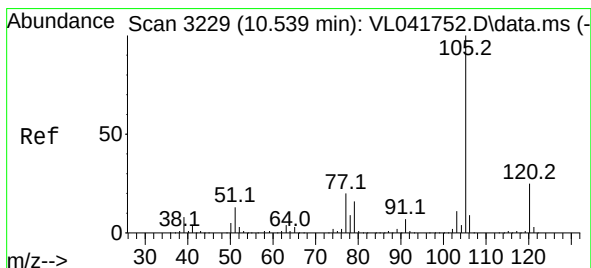
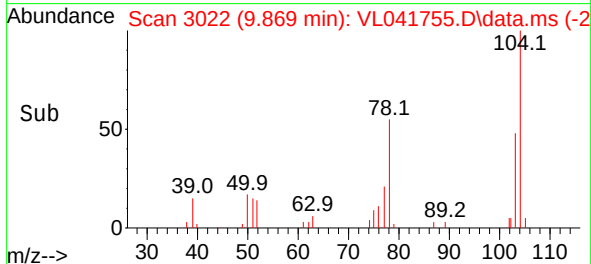
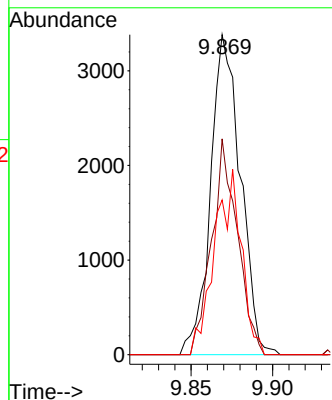
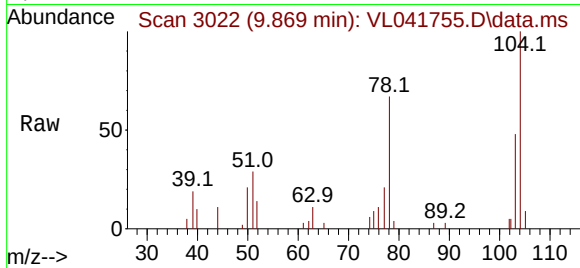
#61
Styrene
Concen: 0.433 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

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

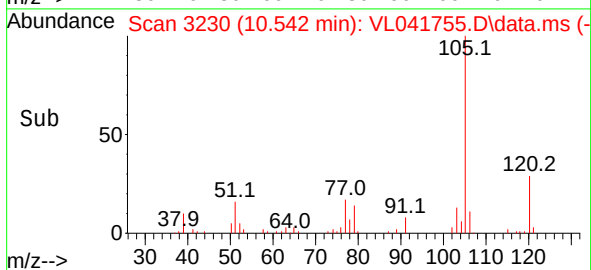
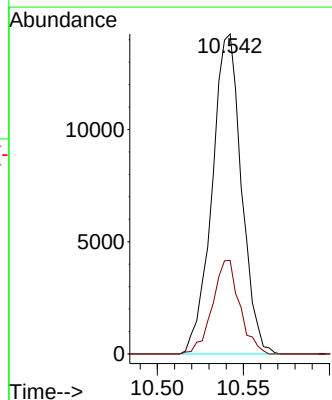
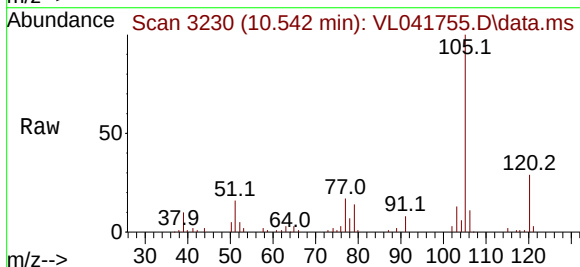
Manual Integrations
APPROVED

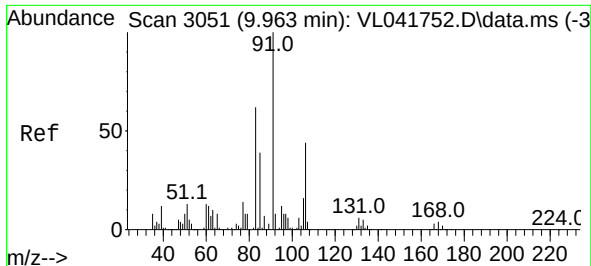
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

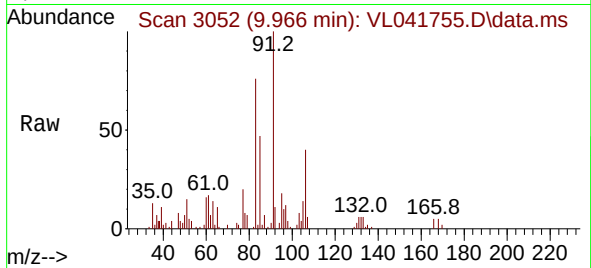
Tgt Ion:105 Resp: 16953
Ion Ratio Lower Upper
105 100
120 27.1 19.8 29.8





#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

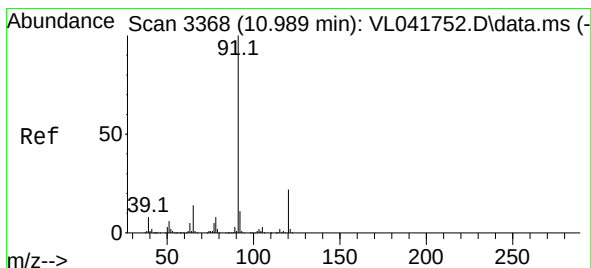
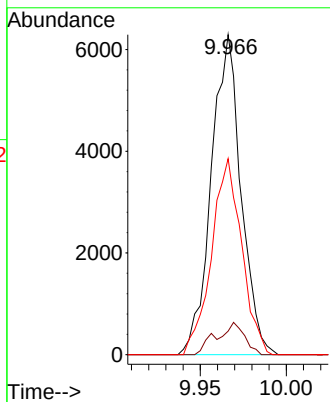
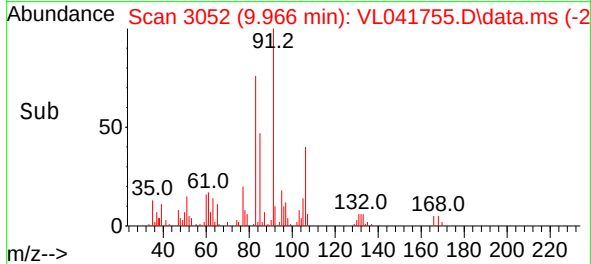
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



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

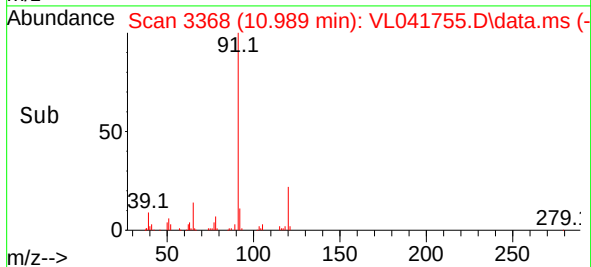
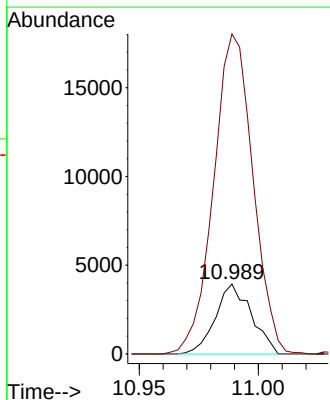
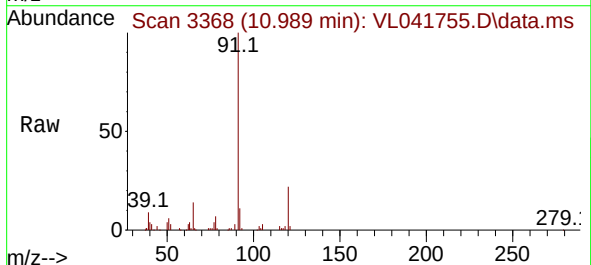
Manual Integrations
APPROVED

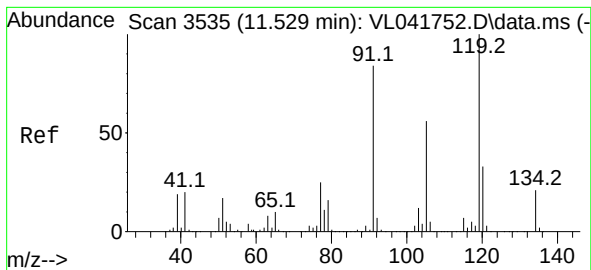
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





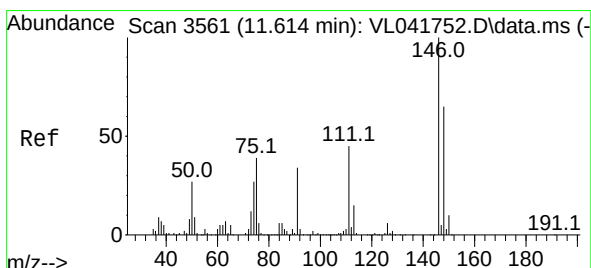
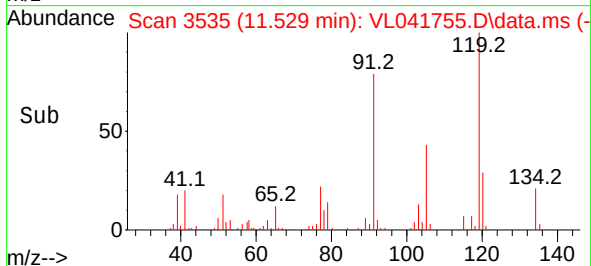
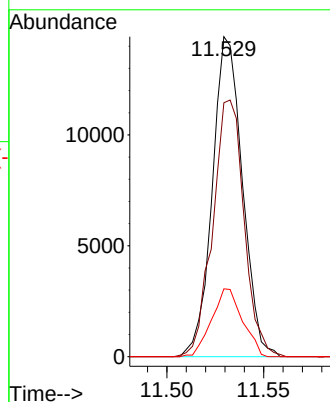
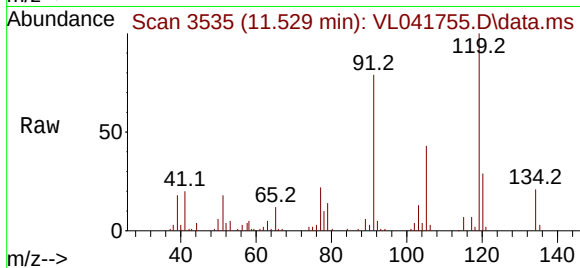
#65
tert-Butylbenzene
Concen: 0.499 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:119 Resp: 1556
Ion Ratio Lower Upper
119 100
91 83.6 67.0 100.4
134 21.8 16.5 24.7

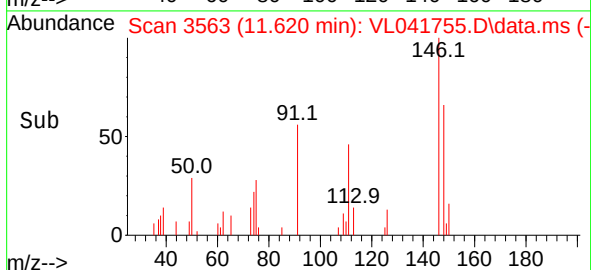
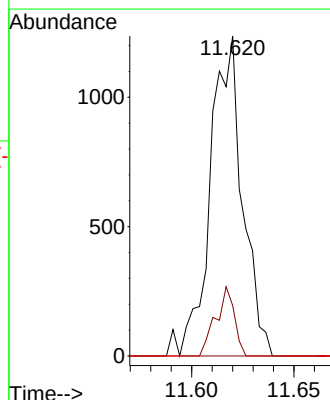
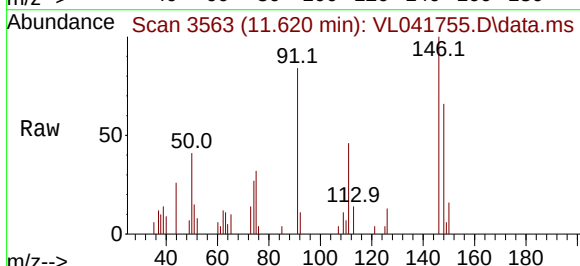
Manual Integrations
APPROVED

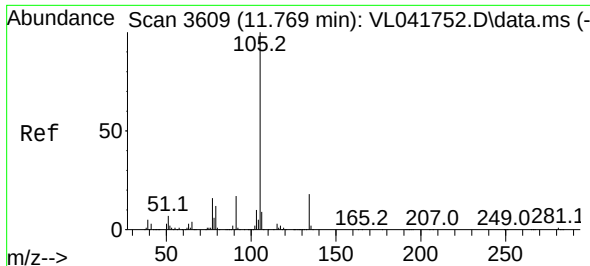
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#66
Benzyl Chloride
Concen: 0.487 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_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 21263

Ion Ratio Lower Upper

105 100

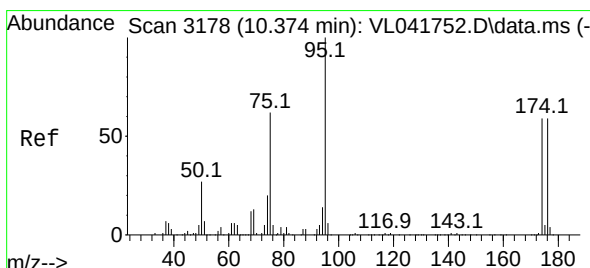
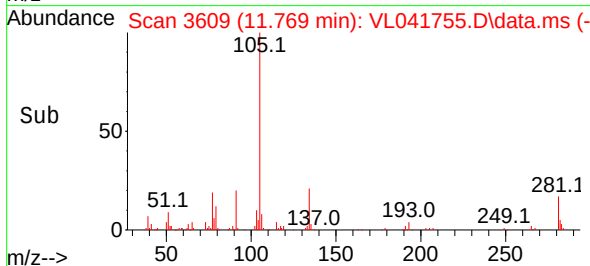
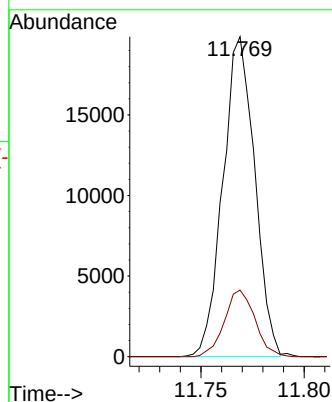
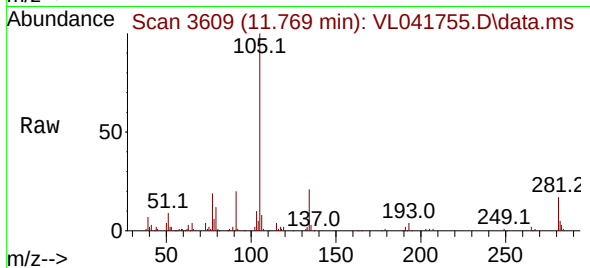
134 20.1 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 10.010 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

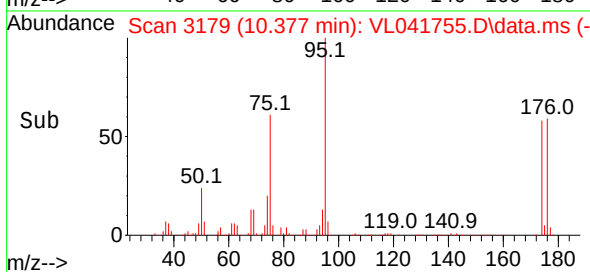
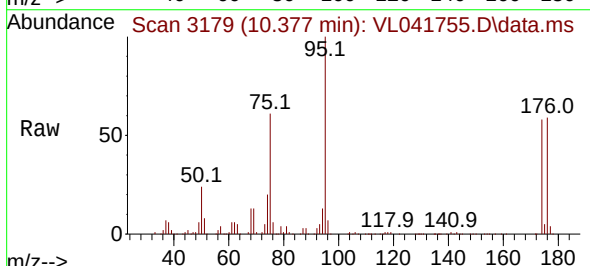
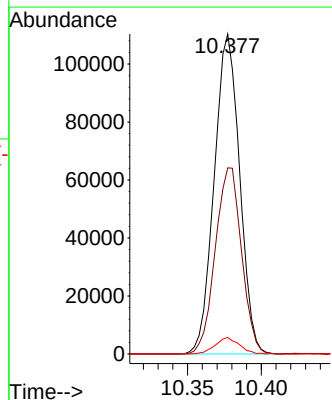
Tgt Ion: 95 Resp: 132273

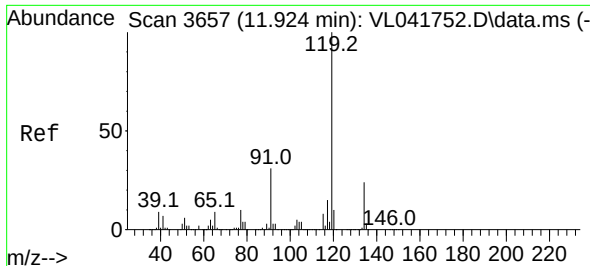
Ion Ratio Lower Upper

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 :

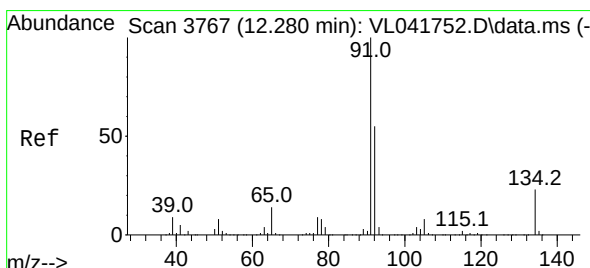
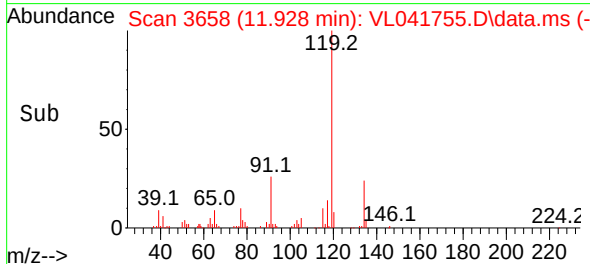
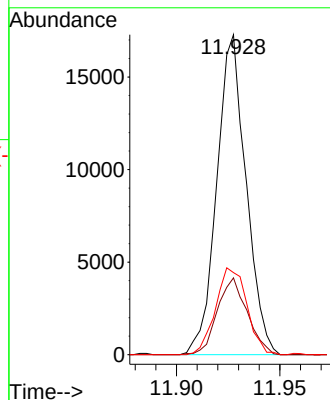
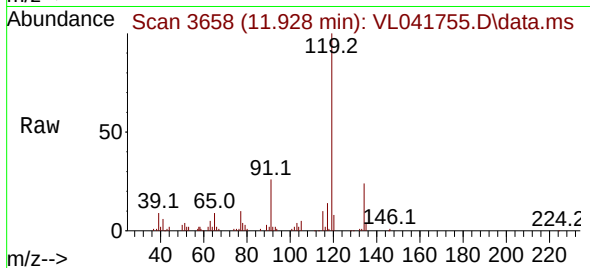
VSTDIC0.5

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

Manual Integrations

APPROVED

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



#70

n-Butylbenzene

Concen: 0.456 ppbv

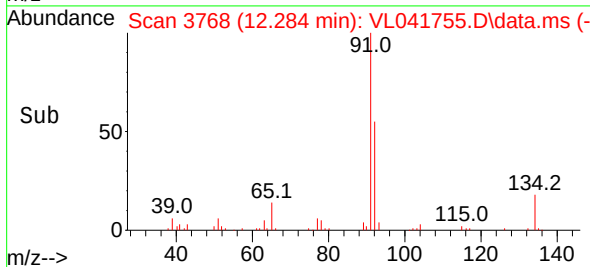
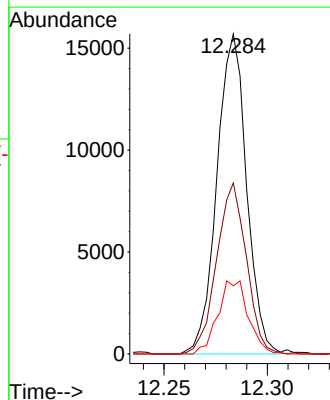
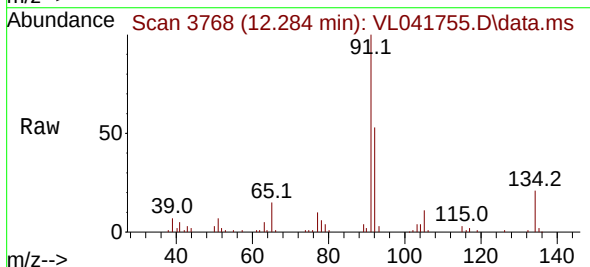
RT: 12.284 min Scan# 3768

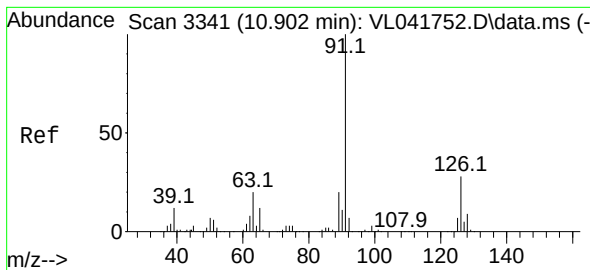
Delta R.T. 0.003 min

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





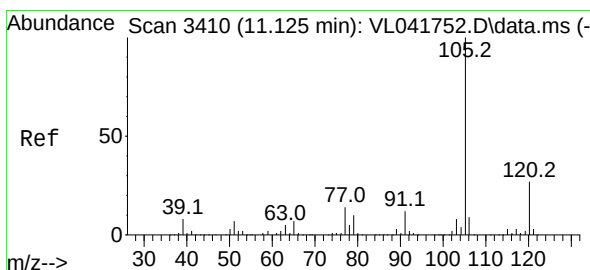
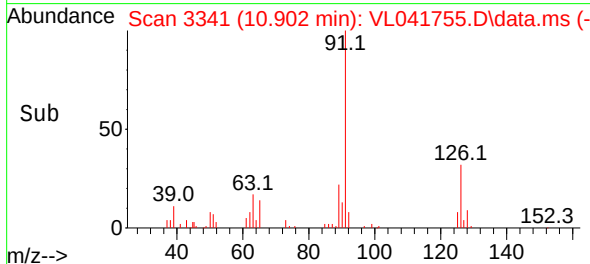
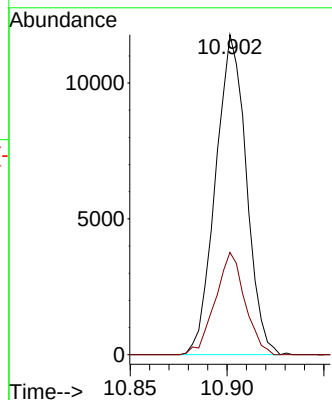
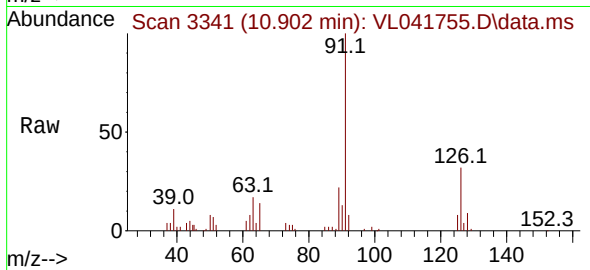
#71
2-Chlorotoluene
Concen: 0.492 ppbv
RT: 10.902 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 13000
Ion Ratio Lower Upper
91 100
126 30.8 11.6 46.4

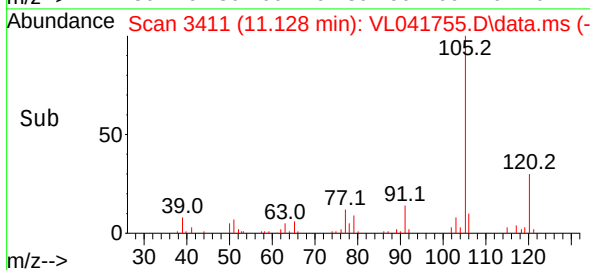
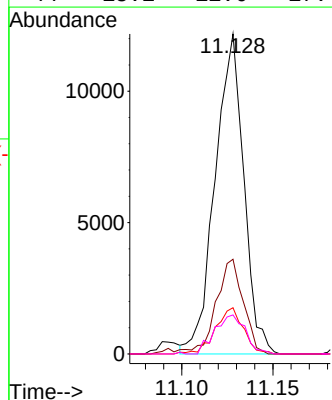
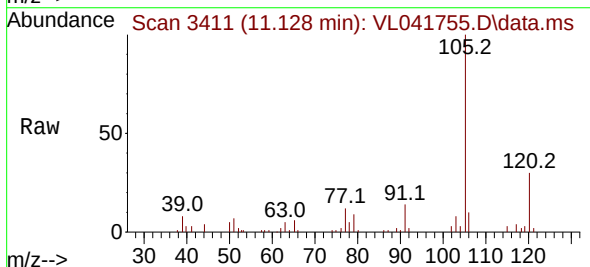
Manual Integrations
APPROVED

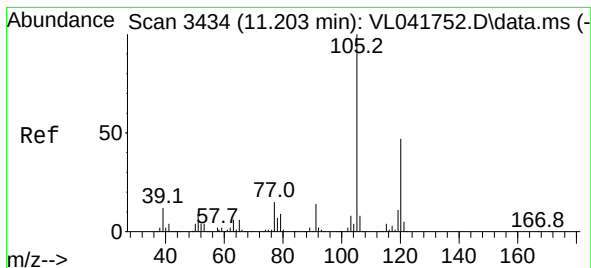
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDICC0.5

Tgt Ion:105 Resp: 1049

Ion Ratio Lower Upper

105 100

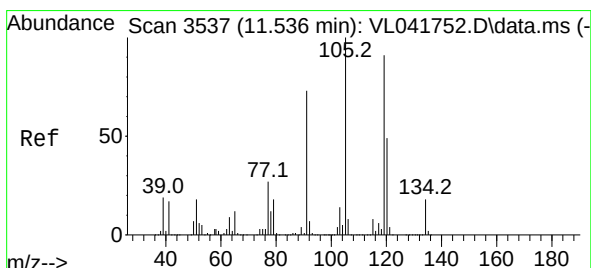
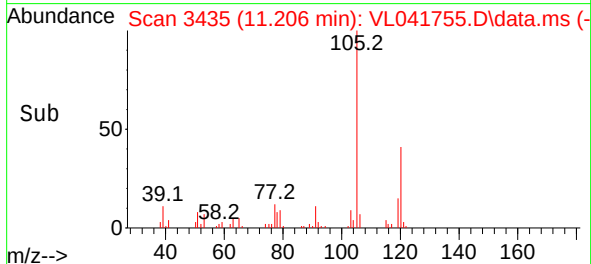
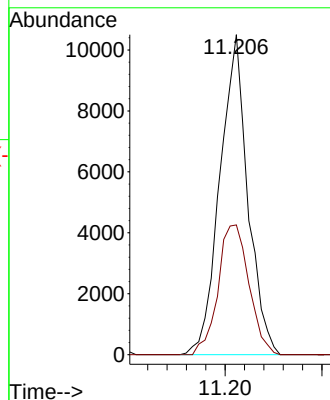
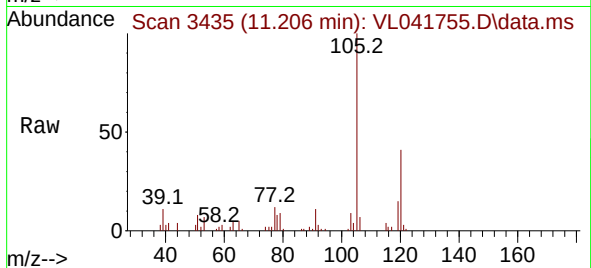
120 40.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 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

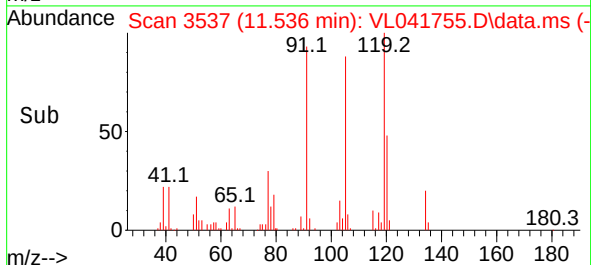
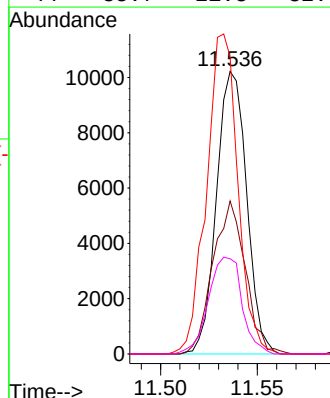
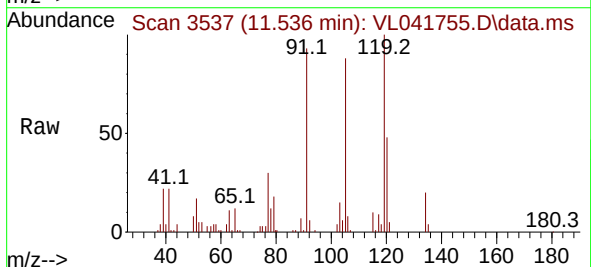
Ion Ratio Lower Upper

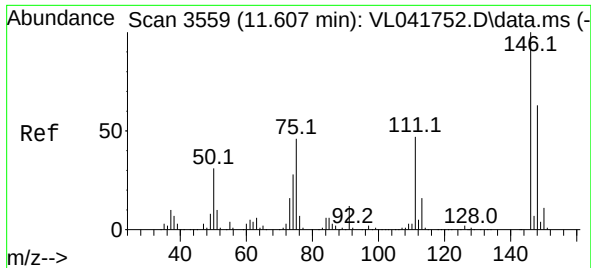
105 100

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 :

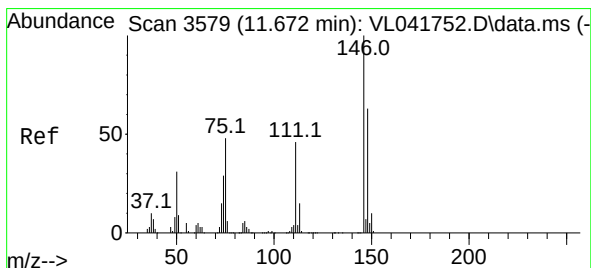
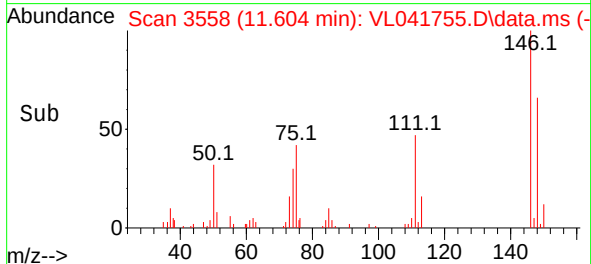
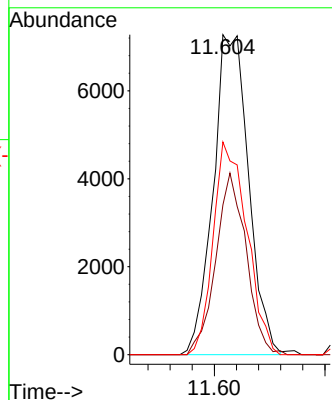
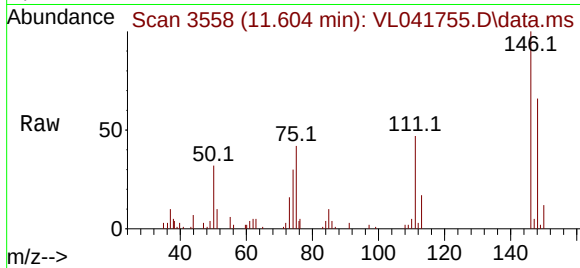
VSTDIC0.5

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

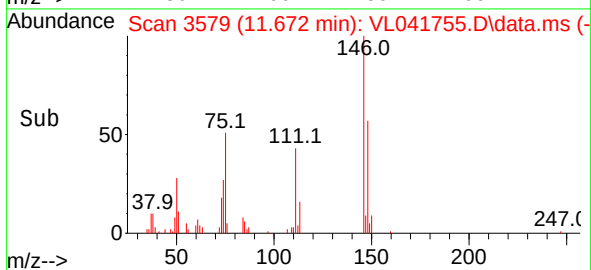
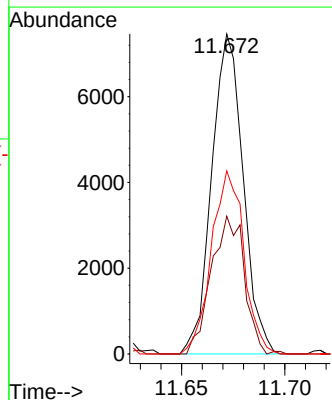
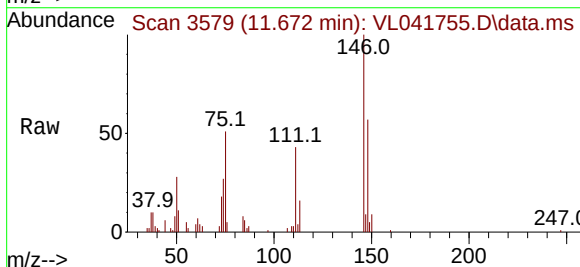
RT: 11.672 min Scan# 3579

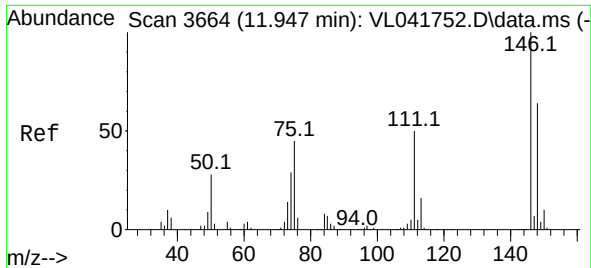
Delta R.T. -0.000 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

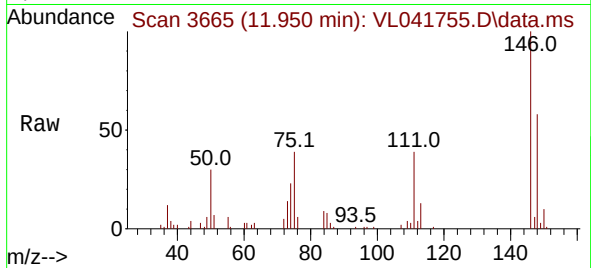
Tgt Ion:146	Resp:	7893
Ion Ratio	Lower	Upper
146	100	
111	45.4	22.7 68.1
148	58.9	31.4 94.0





#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

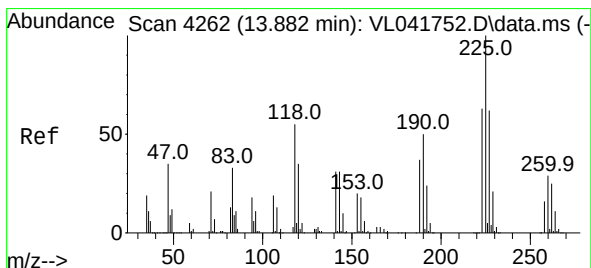
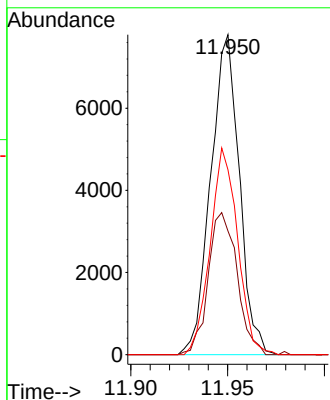
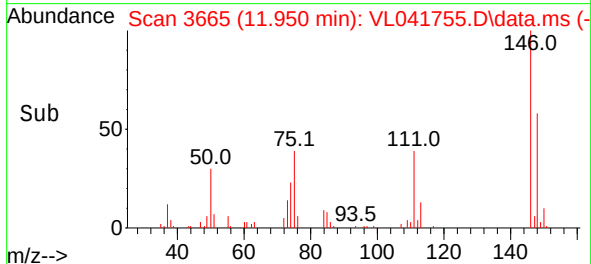
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



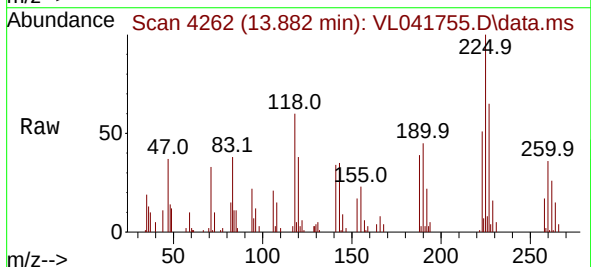
Tgt Ion:146 Resp: 799
Ion Ratio Lower Upper
146 100
111 45.2 24.8 74.3
148 62.0 31.8 95.4

Manual Integrations
APPROVED

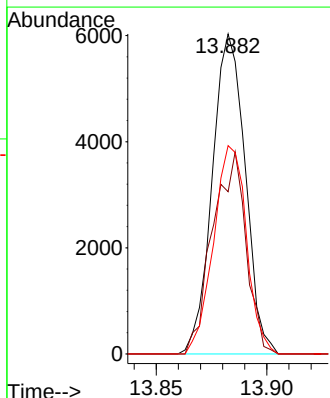
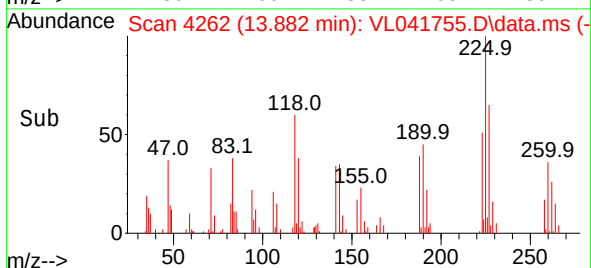
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

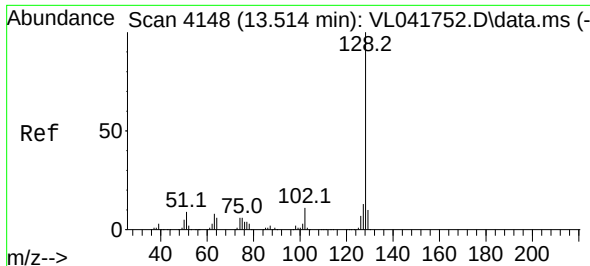


#78
Hexachloro-1,3-Butadiene
Concen: 0.565 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05



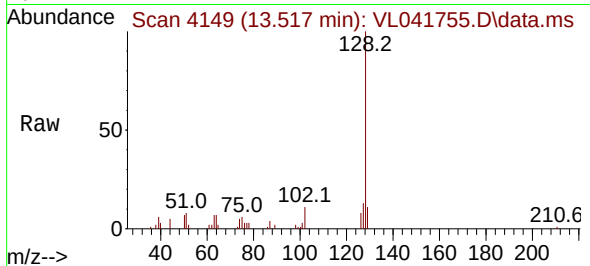
Tgt Ion:225 Resp: 6232
Ion Ratio Lower Upper
225 100
223 64.1 50.5 75.7
227 65.3 50.3 75.5





#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

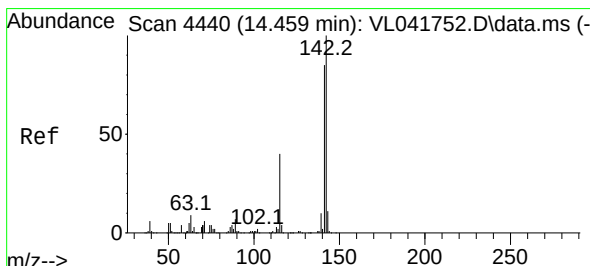
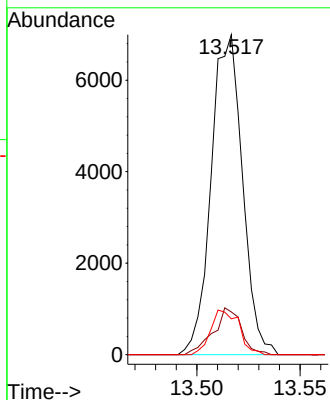
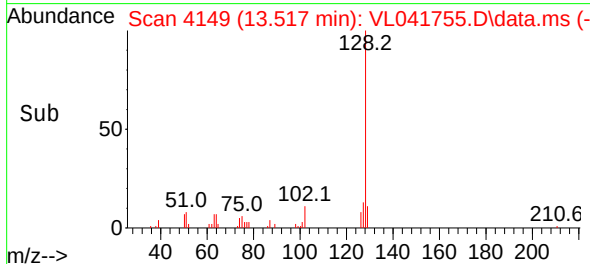
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



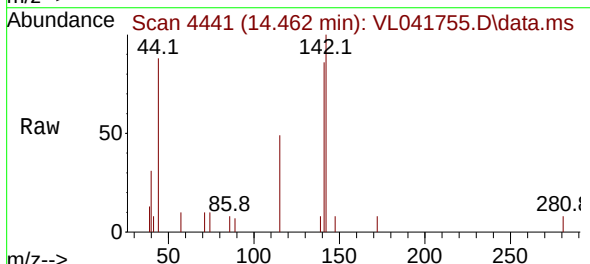
Tgt Ion:128 Resp: 7360
Ion Ratio Lower Upper
128 100
127 13.3 10.7 16.1
129 11.2 8.2 12.4

Manual Integrations
APPROVED

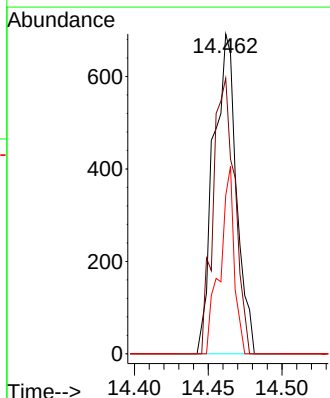
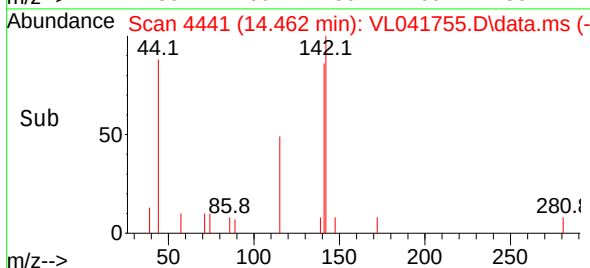
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

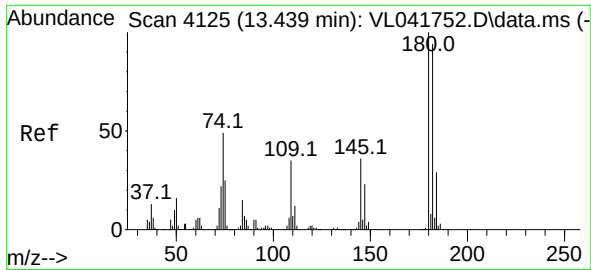


#80
Naphthalene,2-methyl-
Concen: 0.143 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05



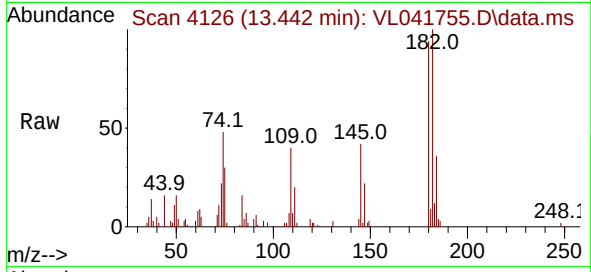
Tgt Ion:142 Resp: 748
Ion Ratio Lower Upper
142 100
141 80.9 68.4 102.6
115 36.4 32.5 48.7





#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

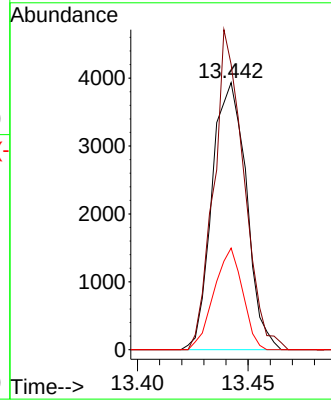
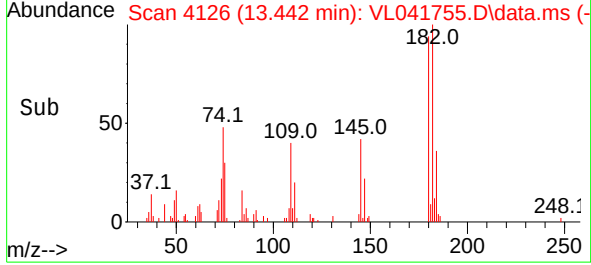
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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						
					Qvalue	
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

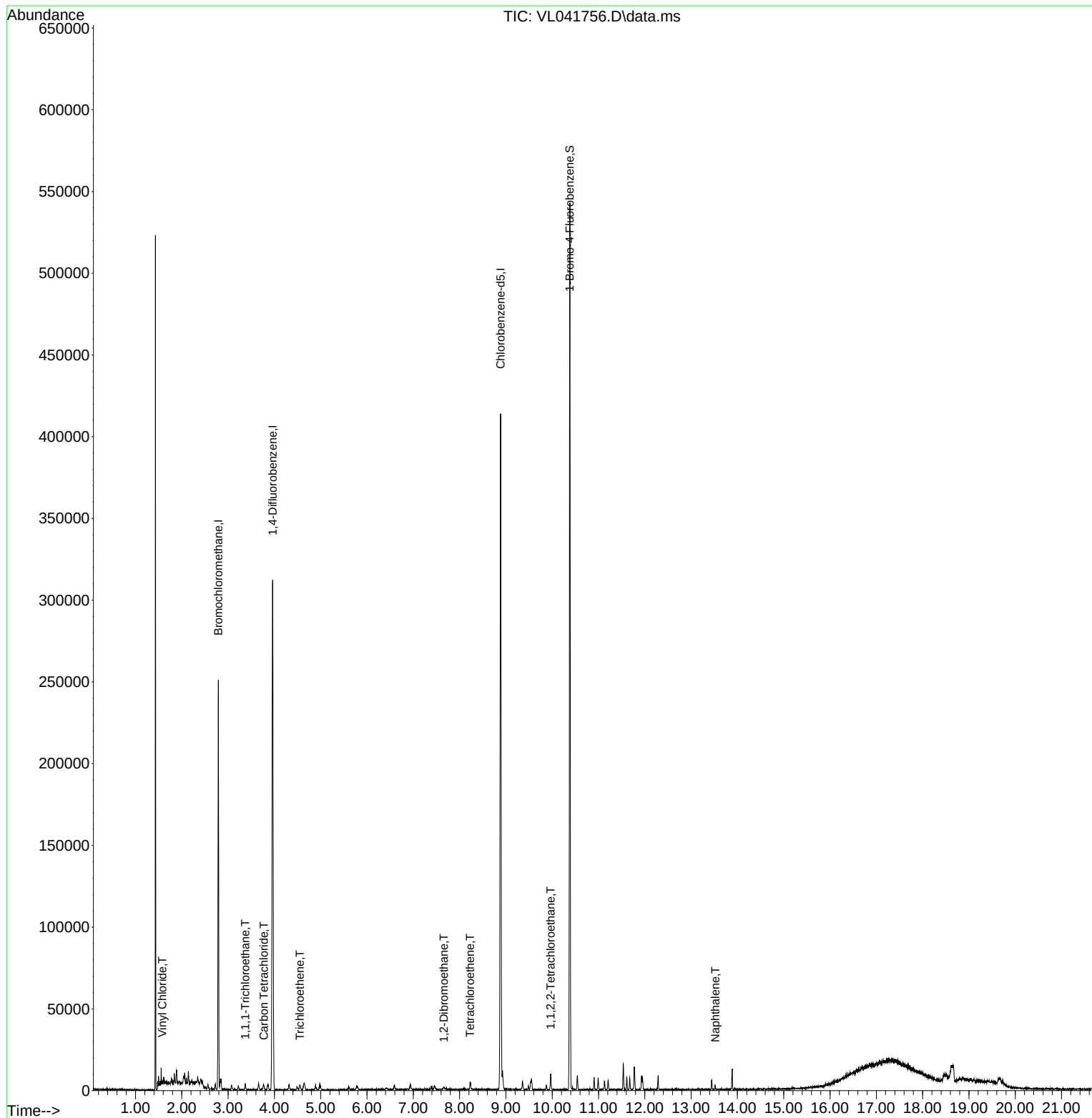
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041756.D
Acq On : 16 Dec 2024 15:37
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

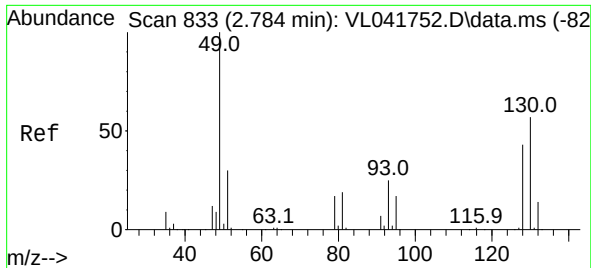
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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





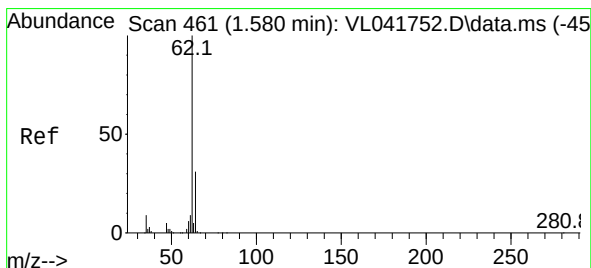
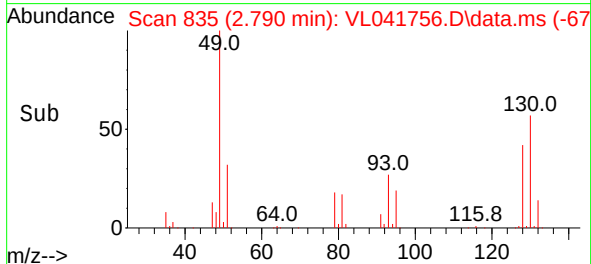
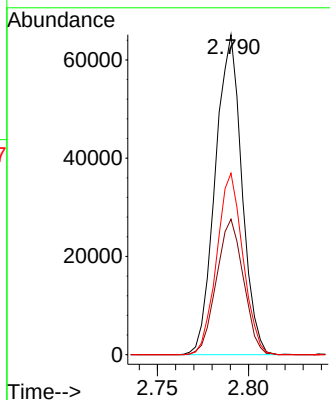
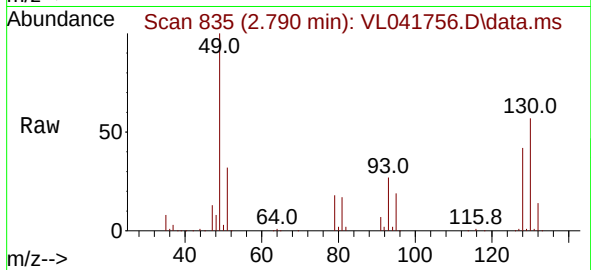
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

Instrument :
MSVOA_L
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

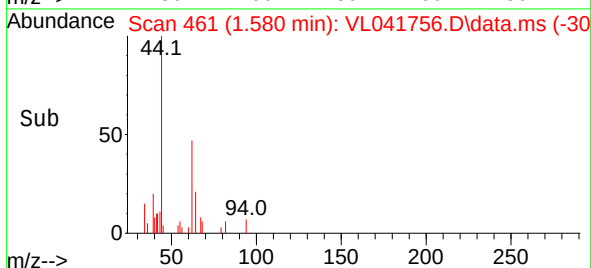
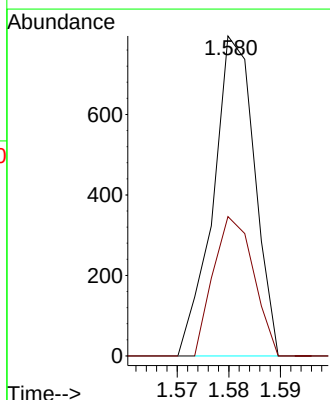
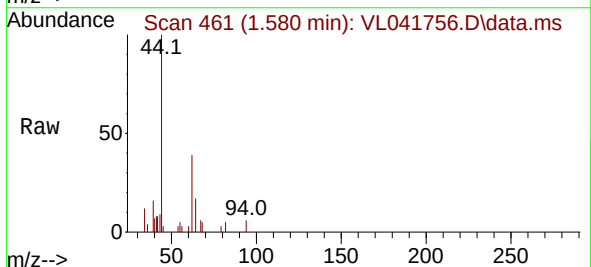
Manual Integrations
APPROVED

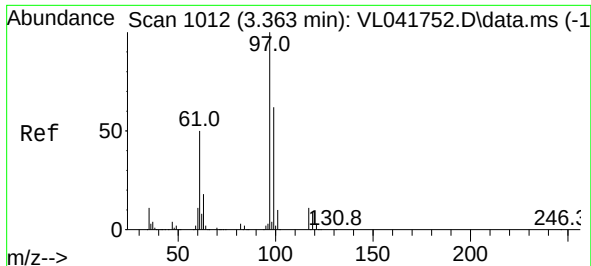
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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# 1012

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

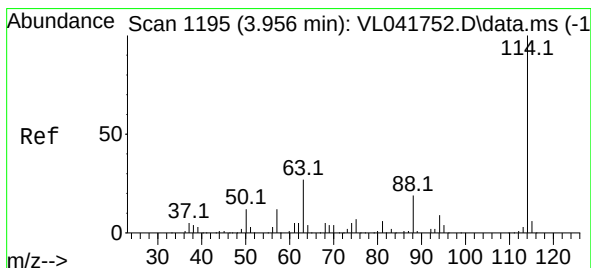
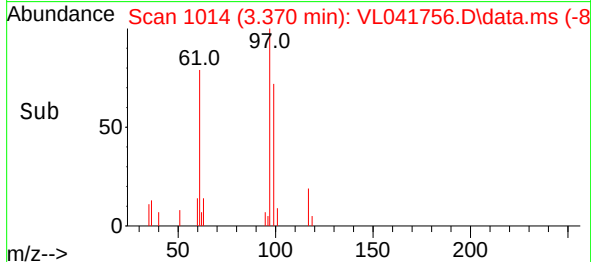
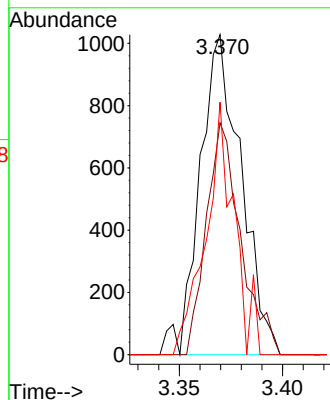
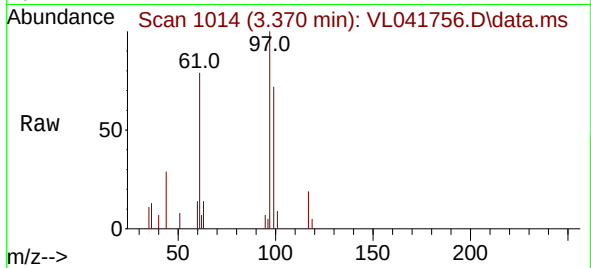
Tgt Ion: 97	Resp: 139
Ion Ratio	Lower Upper
97 100	
99 61.9	51.0 76.4
61 55.9	42.2 63.2

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

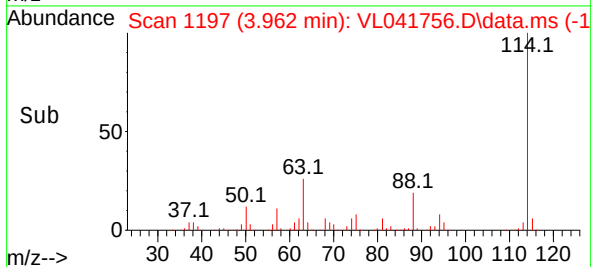
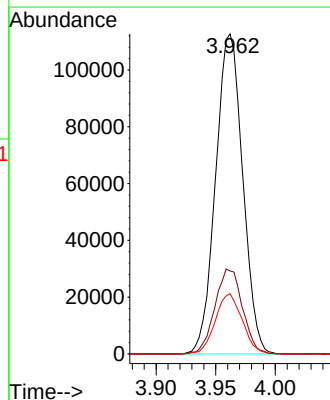
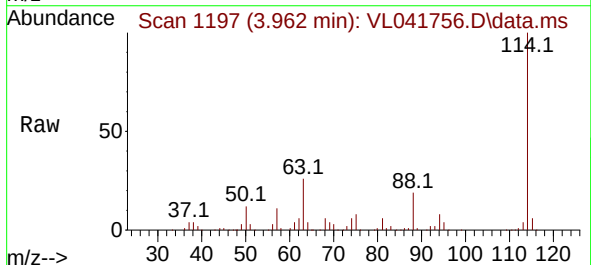
RT: 3.962 min Scan# 1197

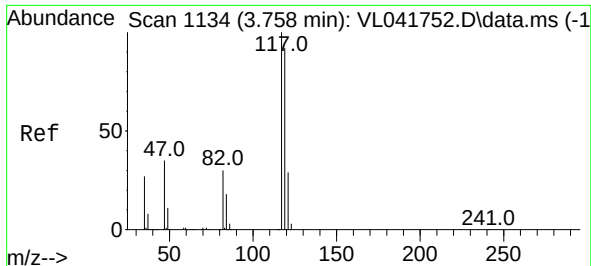
Delta R.T. 0.006 min

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_L

ClientSampleId :

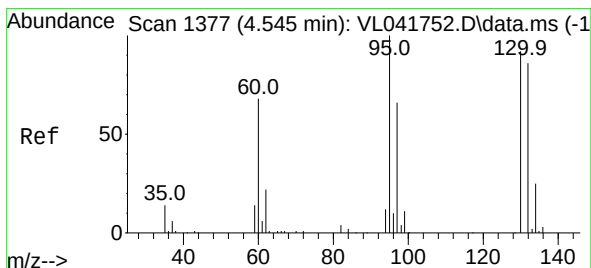
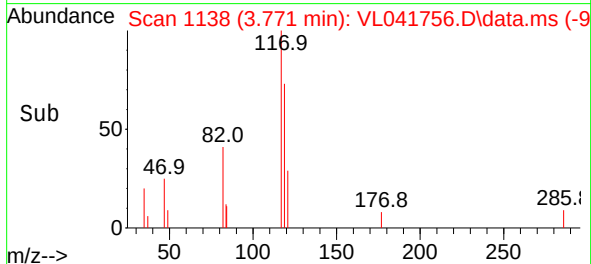
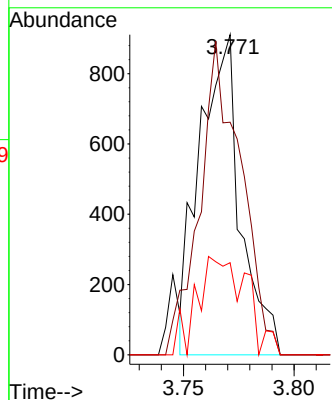
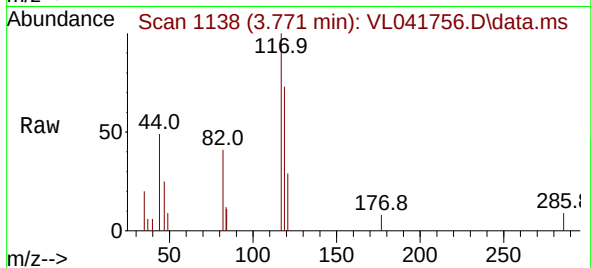
VSTDIC0.1

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

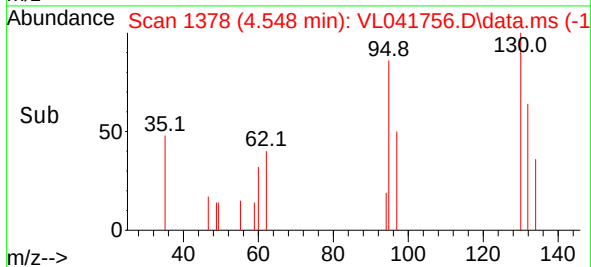
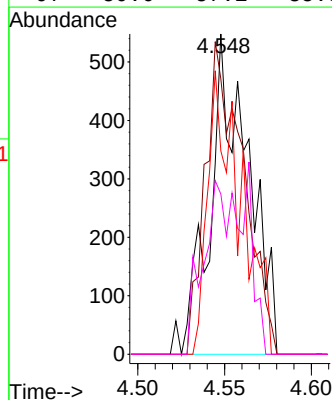
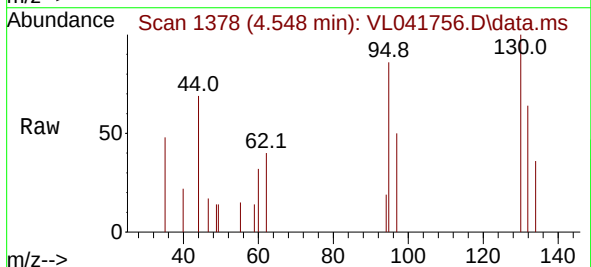
RT: 4.548 min Scan# 1378

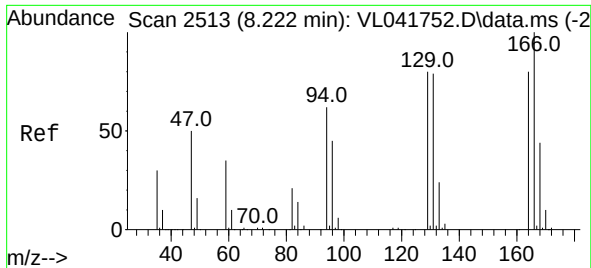
Delta R.T. 0.003 min

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

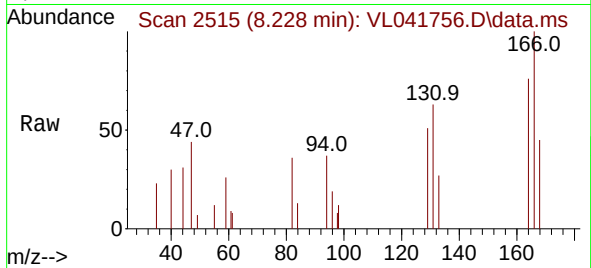
Acq: 16 Dec 2024 15:37

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

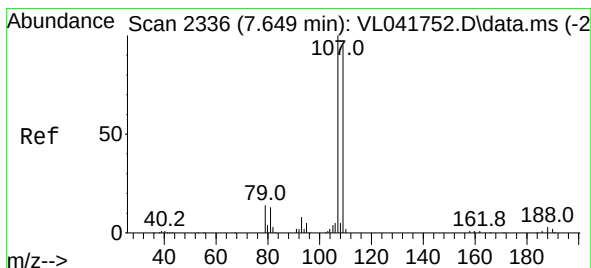
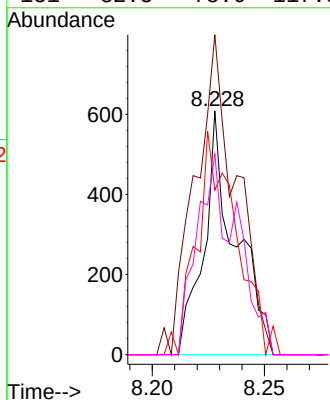
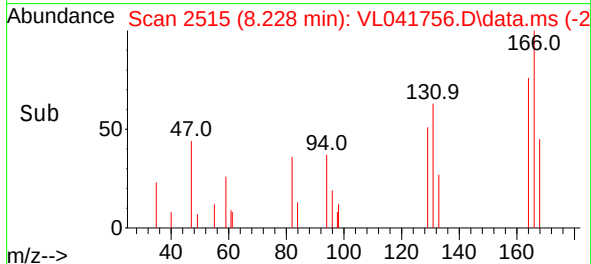
131 82.3 78.6 117.8

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

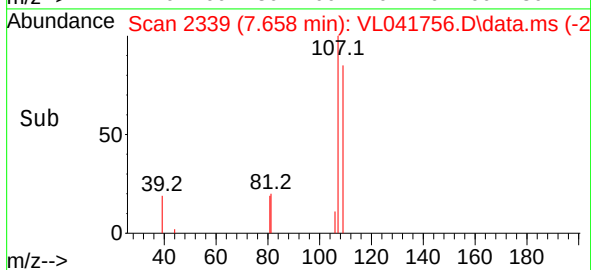
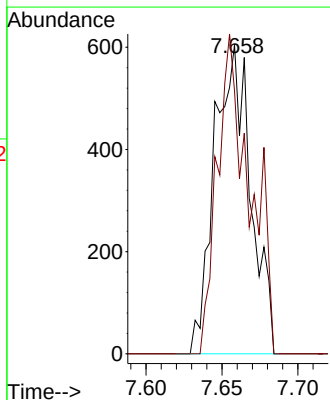
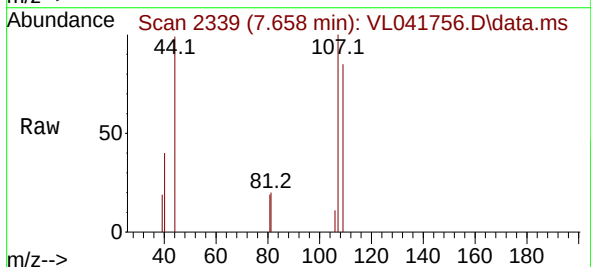
Acq: 16 Dec 2024 15:37

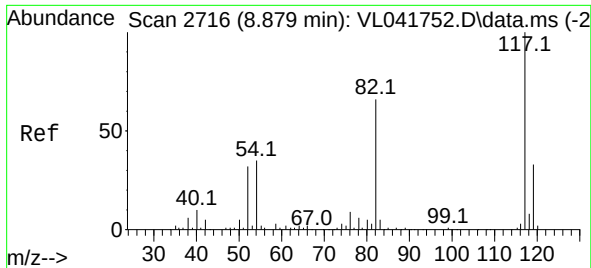
Tgt Ion:107 Resp: 1005

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_L

ClientSampleId :

VSTDICC0.1

Tgt Ion:117 Resp: 158649

Ion Ratio Lower Upper

117 100

82 67.4 53.8 80.8

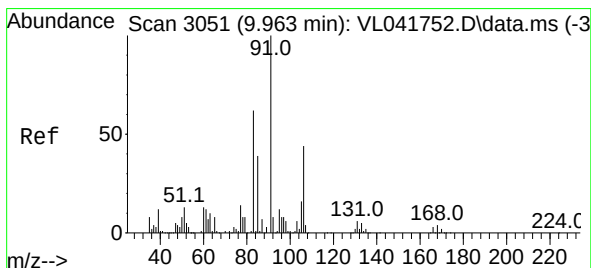
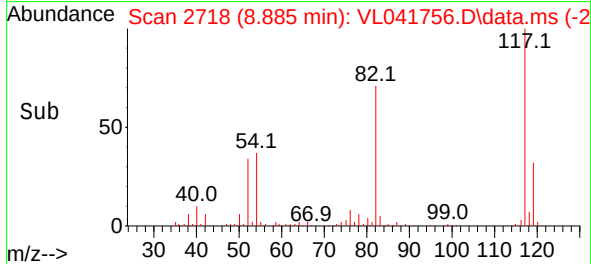
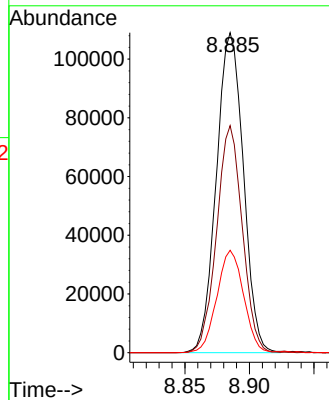
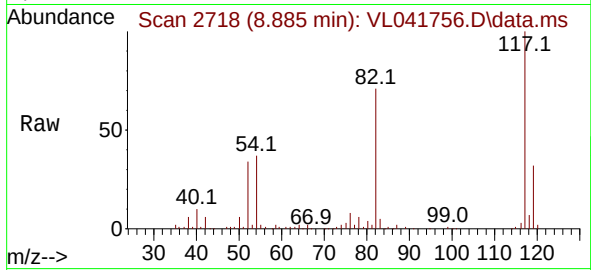
119 31.9 26.7 40.1

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

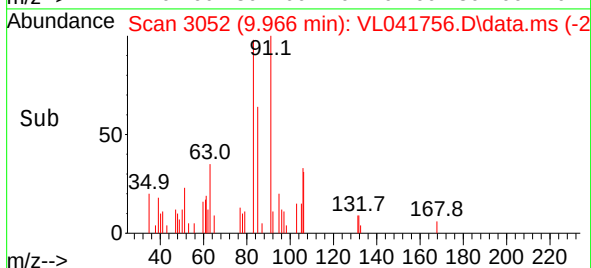
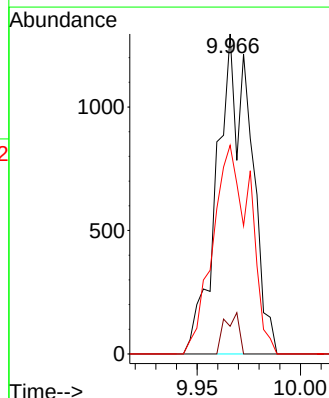
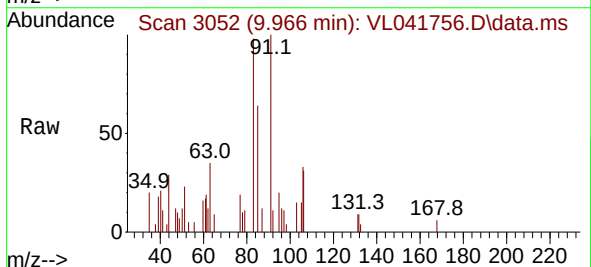
Tgt Ion: 83 Resp: 1485

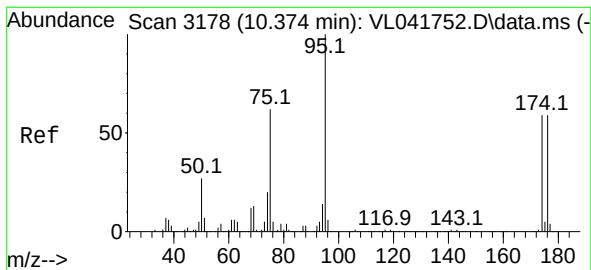
Ion Ratio Lower Upper

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

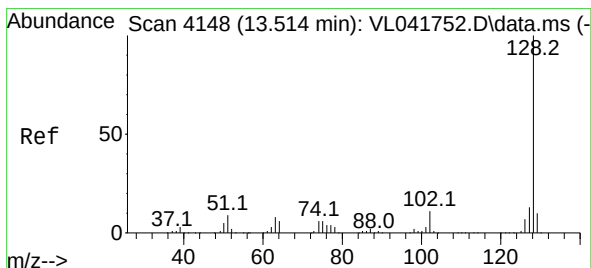
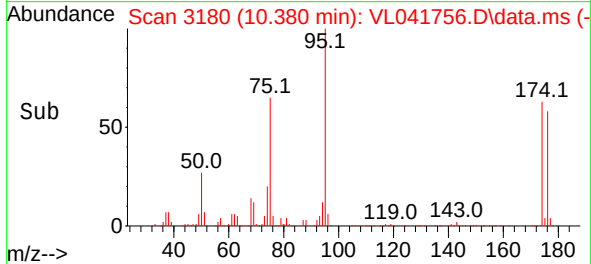
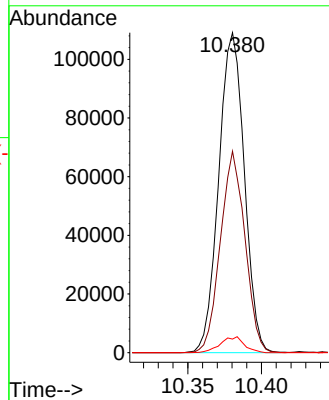
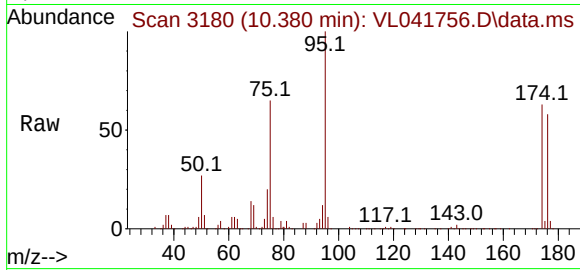
175 4.7 3.7 5.5

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

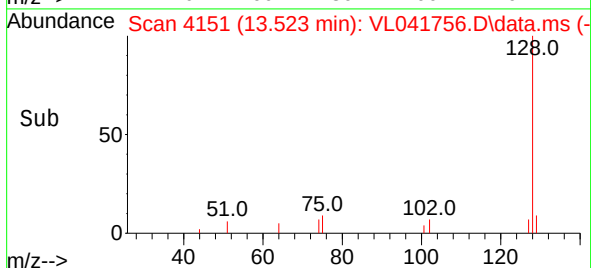
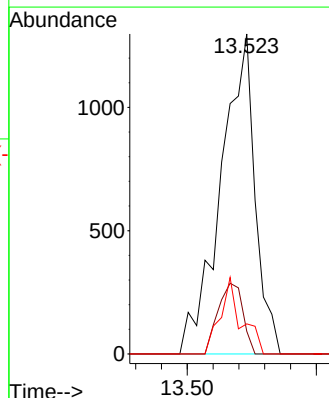
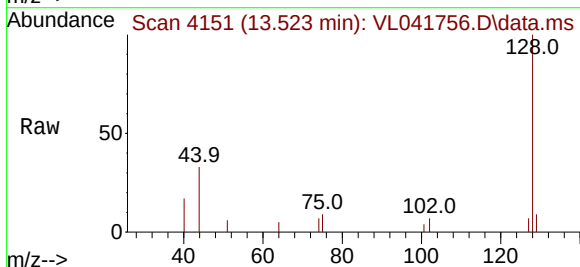
Tgt Ion:128 Resp: 1196

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

Manual Integrations
 APPROVED

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

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

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

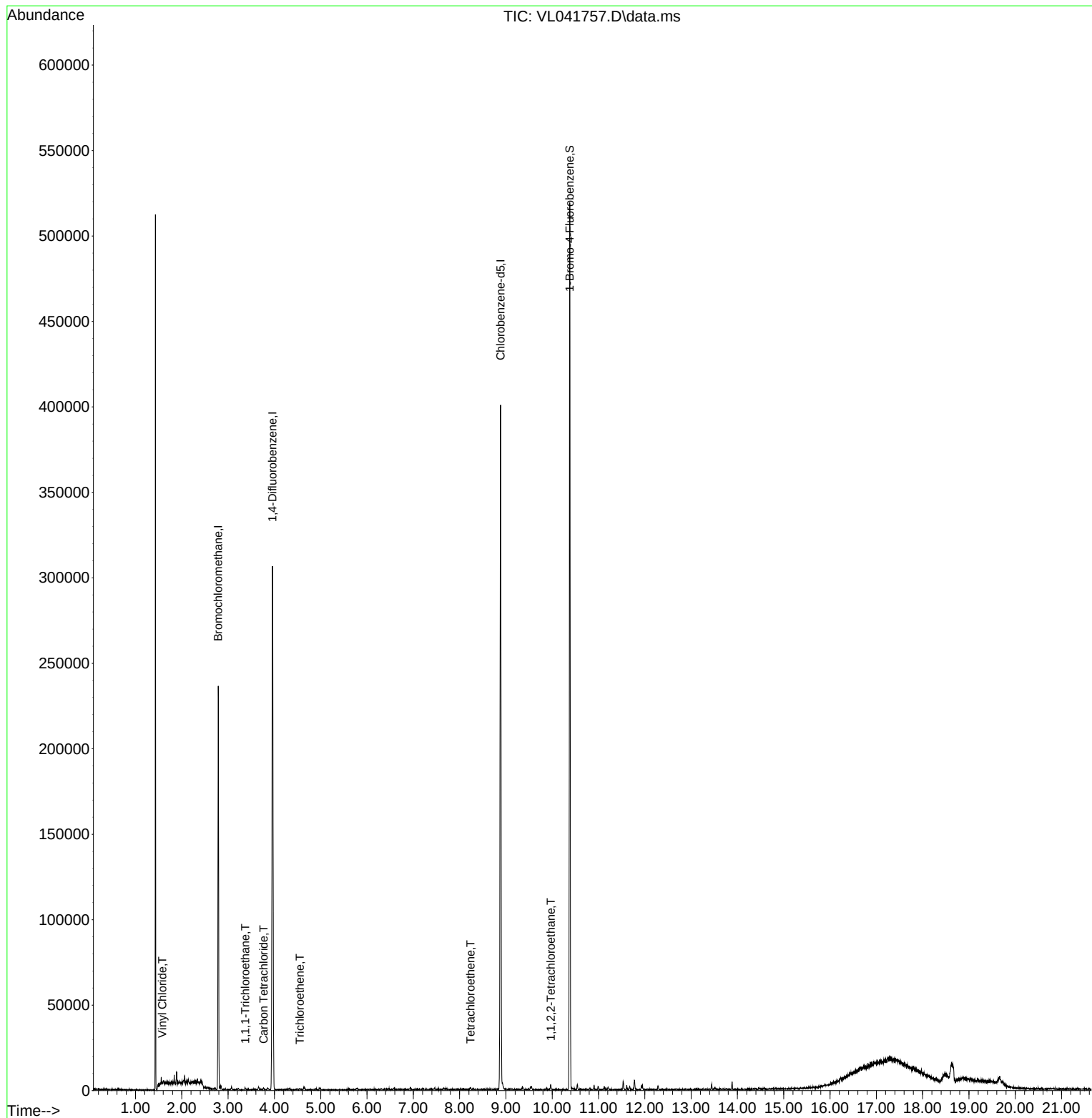
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041757.D
Acq On : 16 Dec 2024 16:08
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

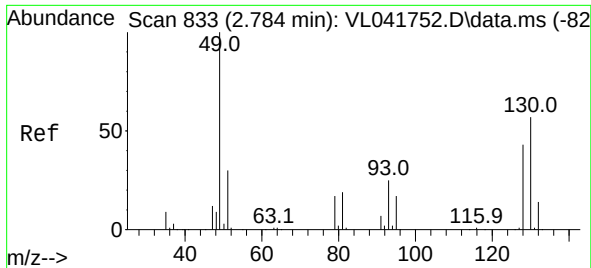
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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





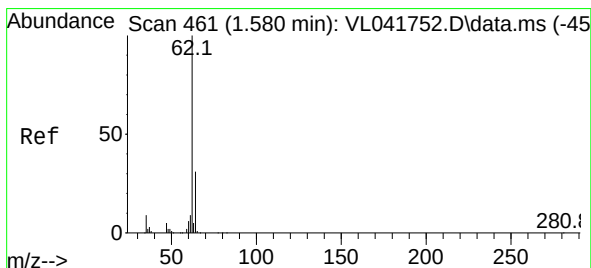
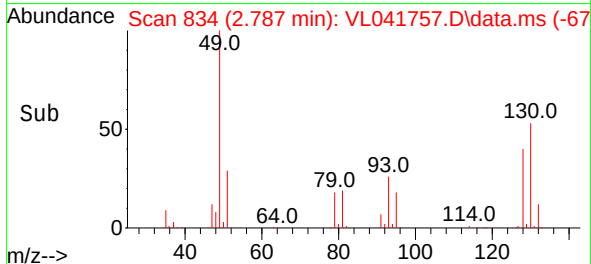
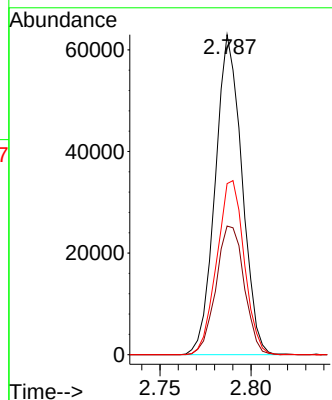
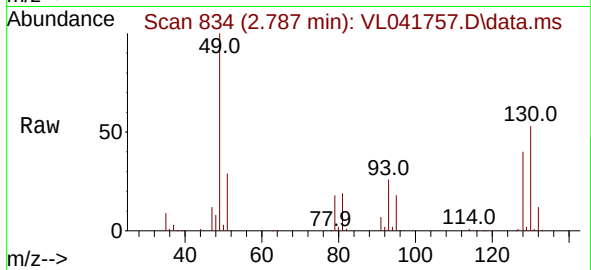
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

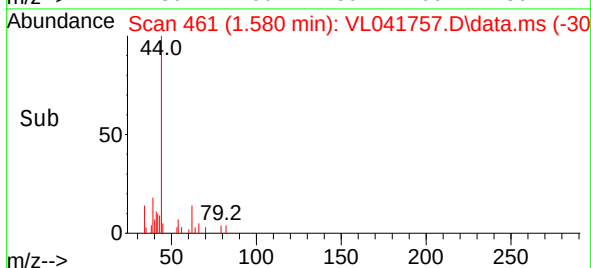
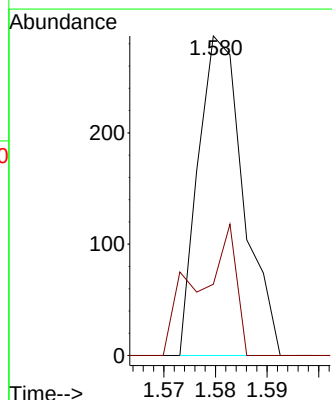
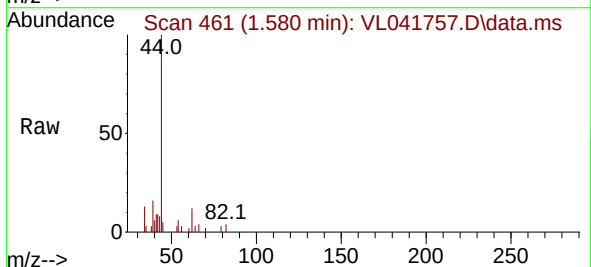
Manual Integrations
APPROVED

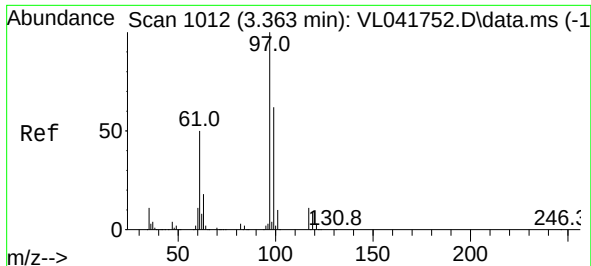
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

VSTDICC0.03

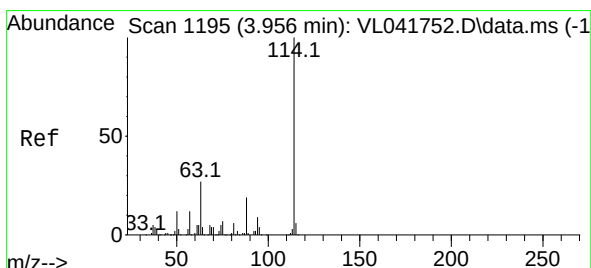
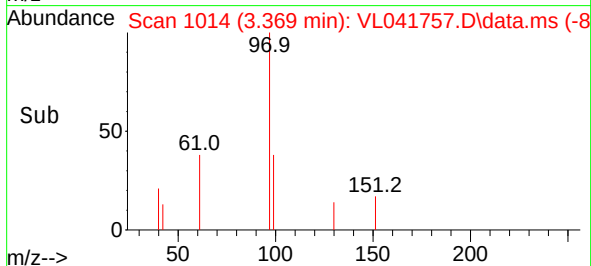
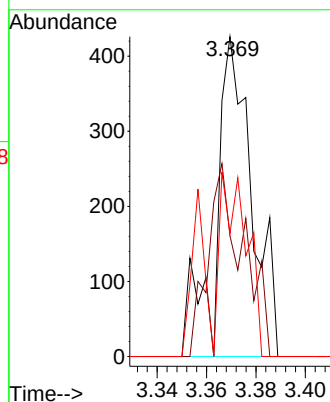
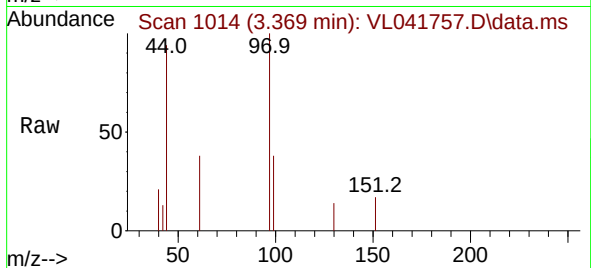
Tgt Ion: 97	Resp: 42
Ion Ratio	Lower Upper
97 100	
99 59.5	51.0 76.4
61 62.1	42.2 63.2

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

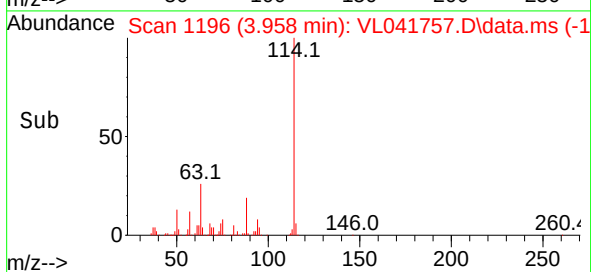
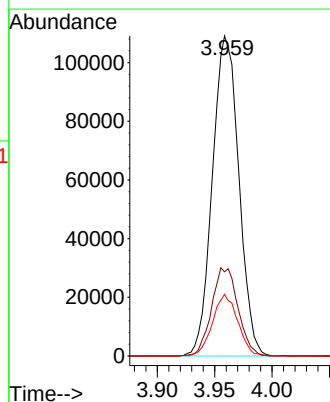
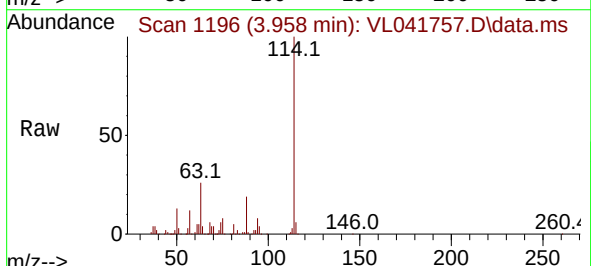
RT: 3.958 min Scan# 1196

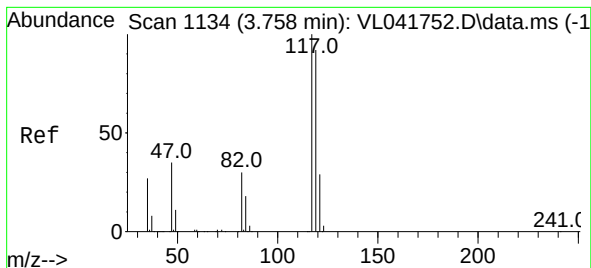
Delta R.T. 0.003 min

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

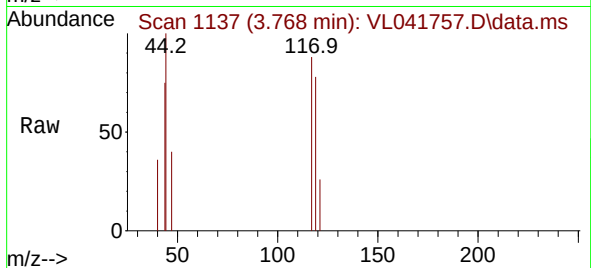
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



Tgt Ion:117 Resp: 352

Ion Ratio Lower Upper

117 100

119 88.9 73.7 110.5

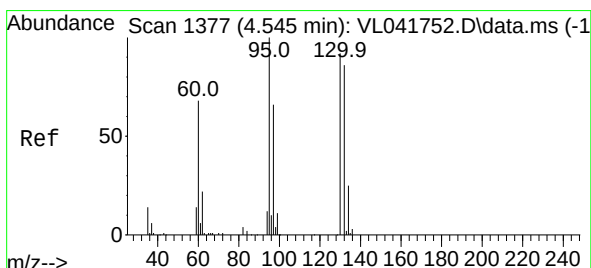
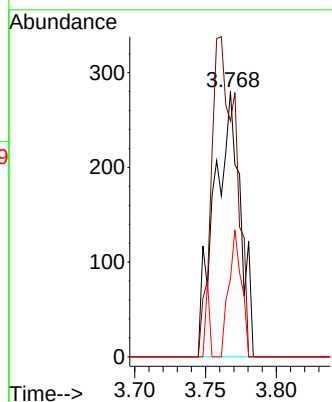
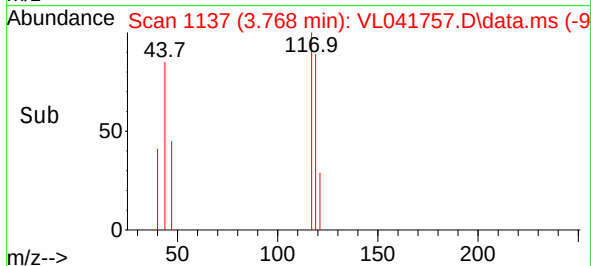
121 29.3 23.0 34.4

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

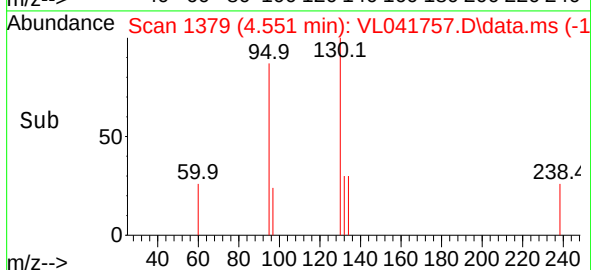
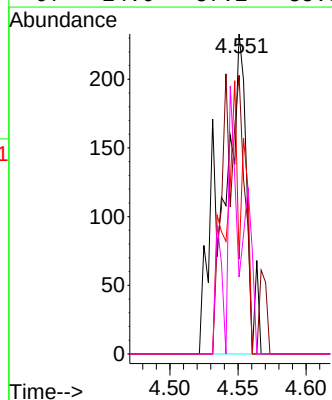
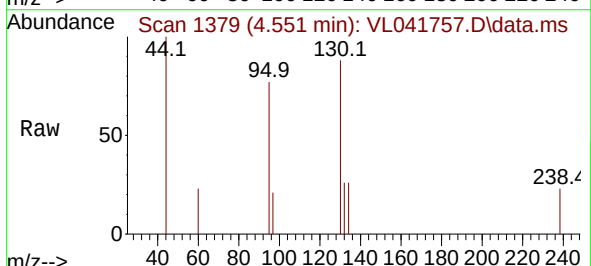
Ion Ratio Lower Upper

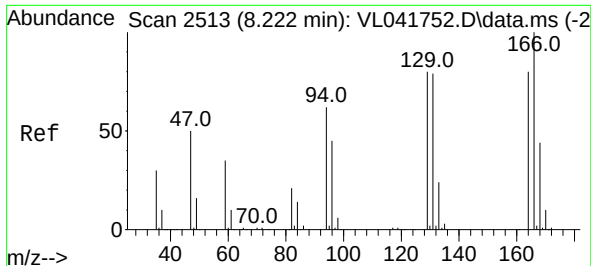
130 100

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

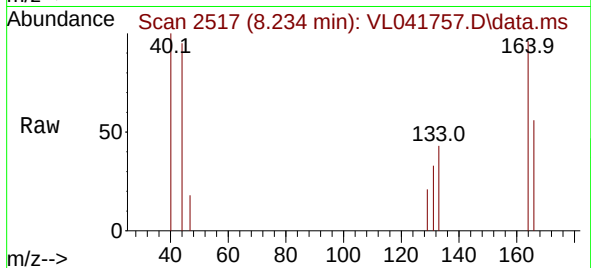
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

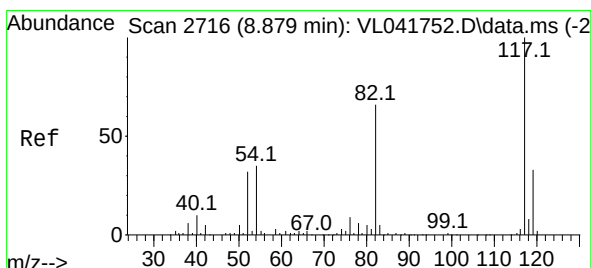
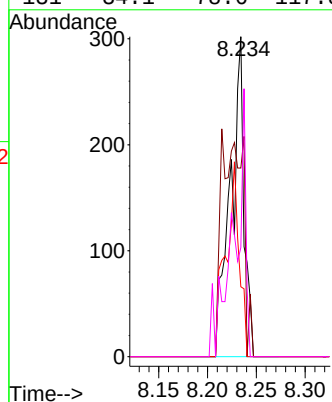
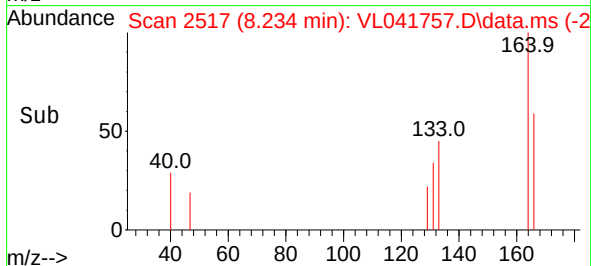


Tgt Ion:164	Resp:	291
Ion	Ratio	Lower Upper
164	100	
166	58.9	99.8 149.6
129	21.9	79.6 119.4
131	34.1	78.6 117.8

Manual Integrations

APPROVED

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

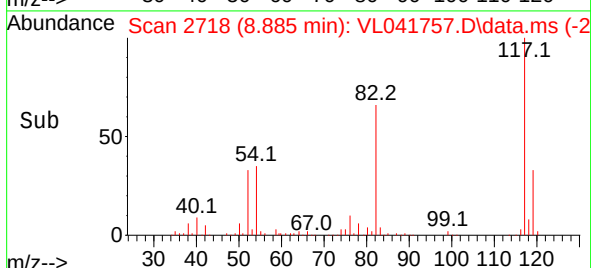
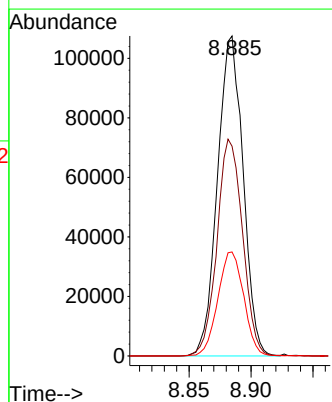
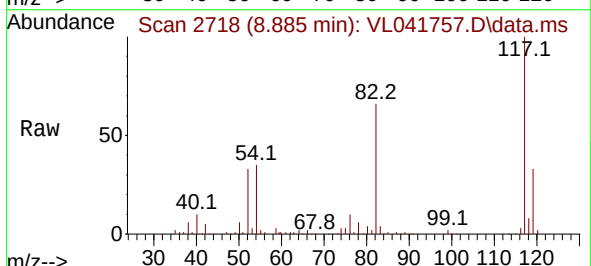
RT: 8.885 min Scan# 2718

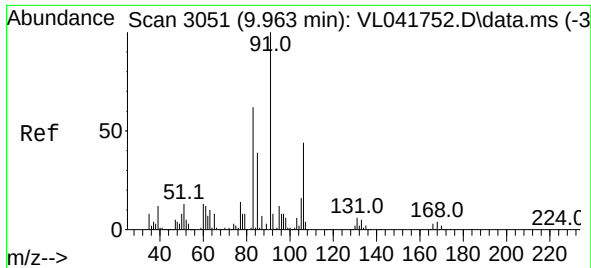
Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

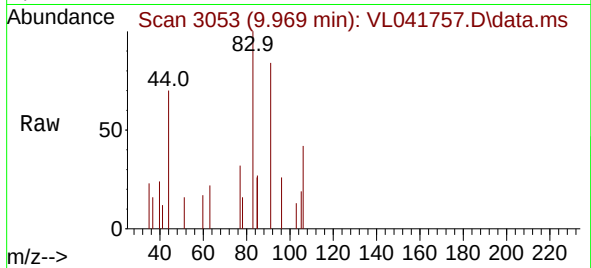
Tgt Ion:117	Resp:	154998
Ion	Ratio	Lower Upper
117	100	
82	67.6	53.8 80.8
119	32.9	26.7 40.1





#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

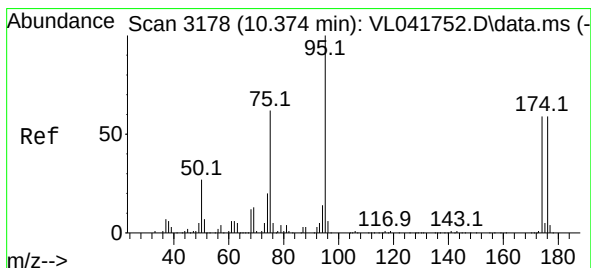
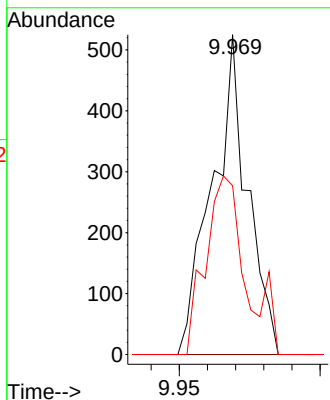
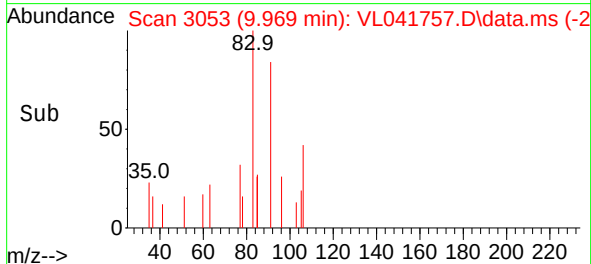
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



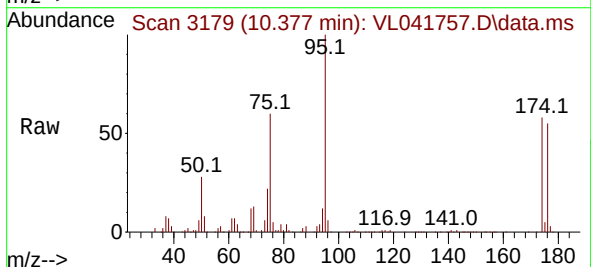
Tgt Ion: 83 Resp: 450
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7
85 63.5 32.0 96.2

Manual Integrations
APPROVED

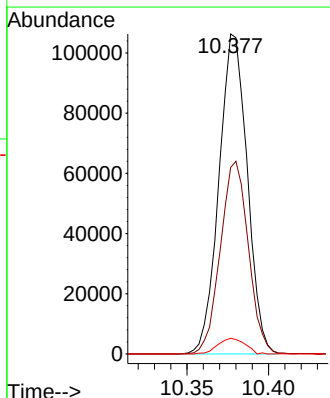
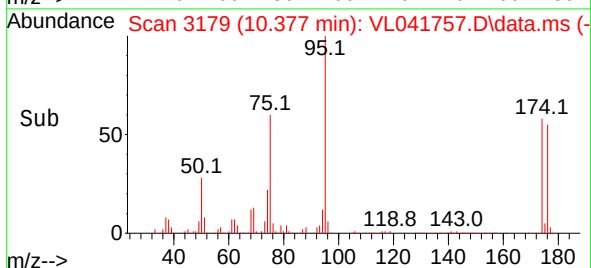
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

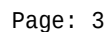
Response via : Initial Calibration

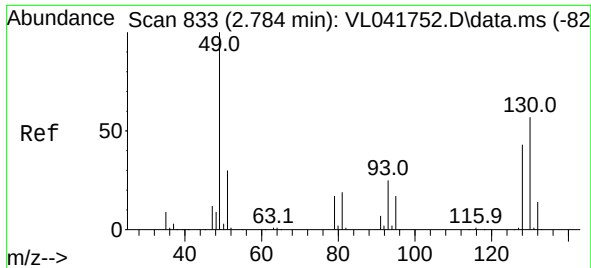
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	143172	15.643	ppbv	95
47) 1,1,2-Trichloroethane	6.580	97	98426	14.242	ppbv	94
48) Dibromochloromethane	7.386	129	161661	17.131	ppbv	100
49) Bromoform	9.484	173	137786	17.838	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	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

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





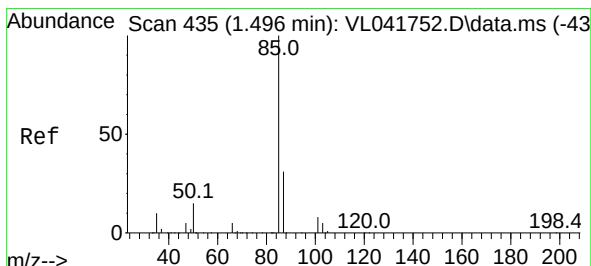
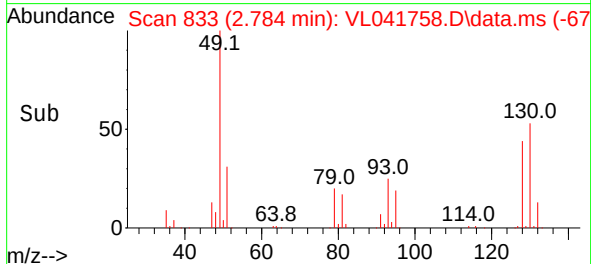
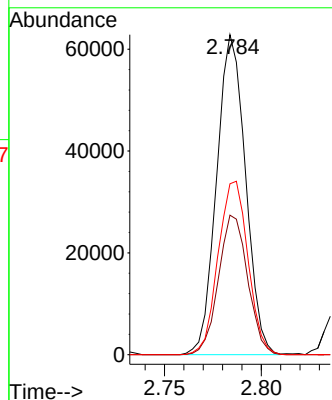
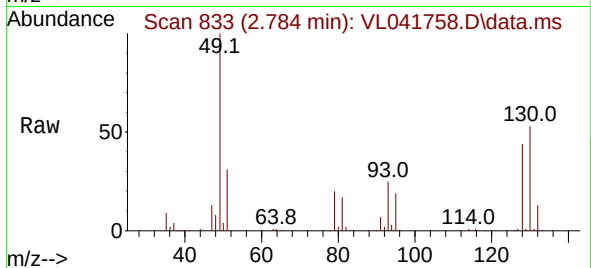
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
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

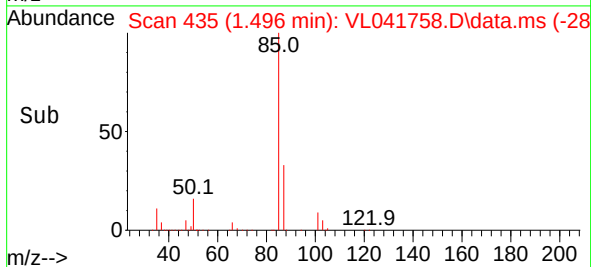
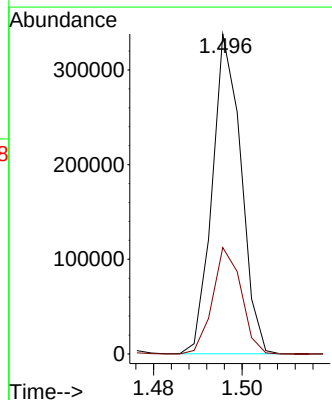
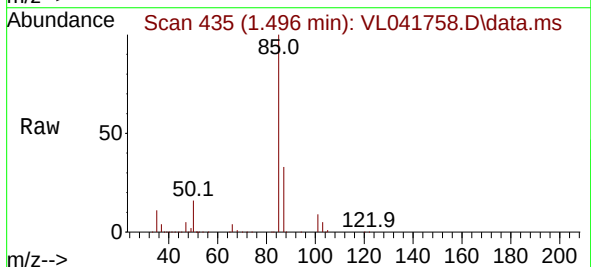
Manual Integrations
APPROVED

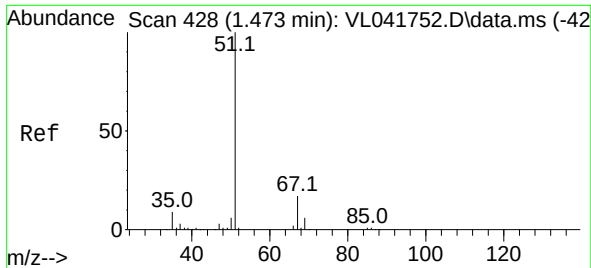
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





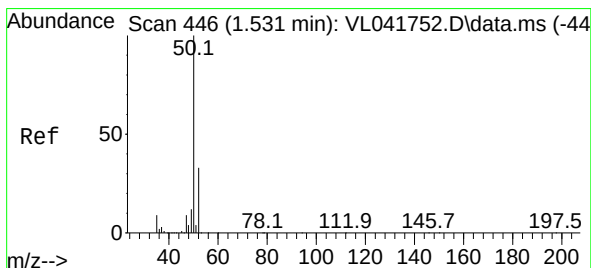
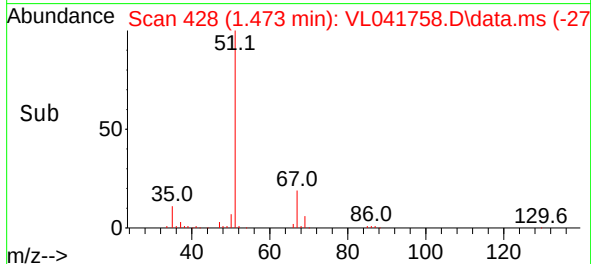
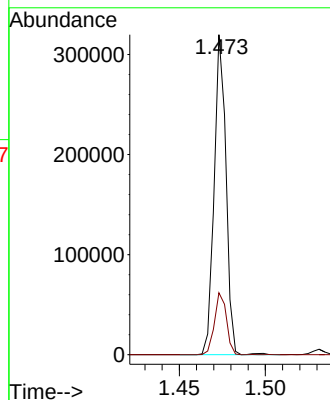
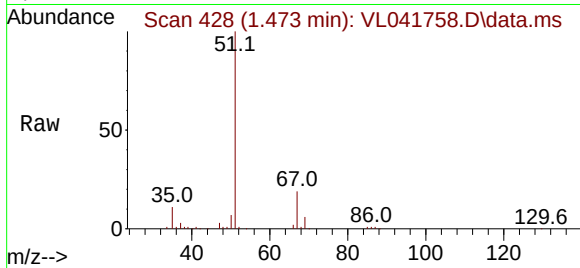
#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 15245
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.4

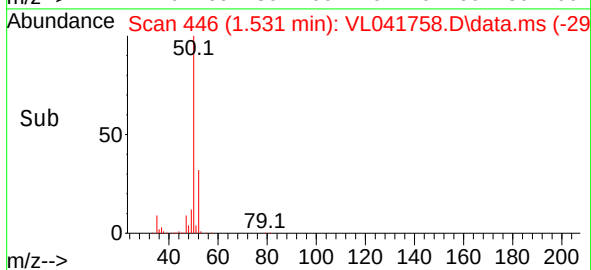
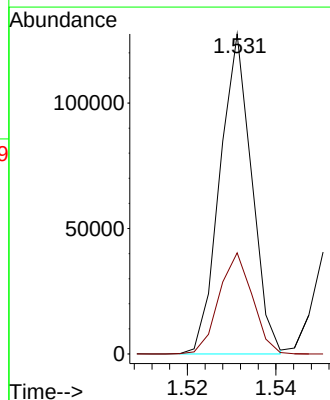
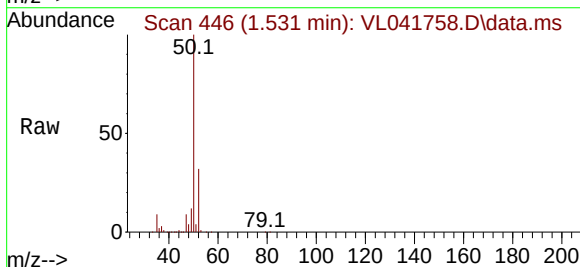
Manual Integrations
APPROVED

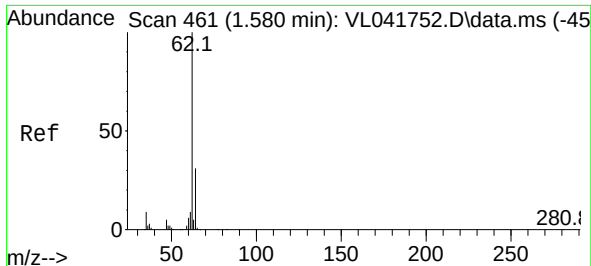
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





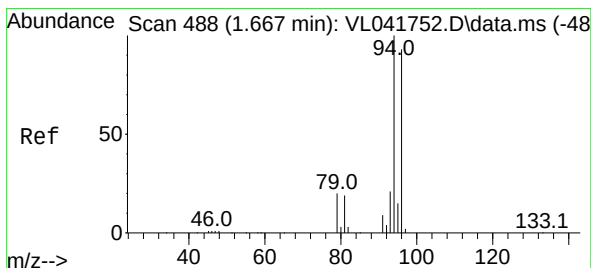
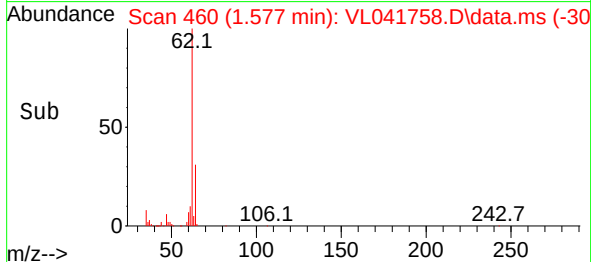
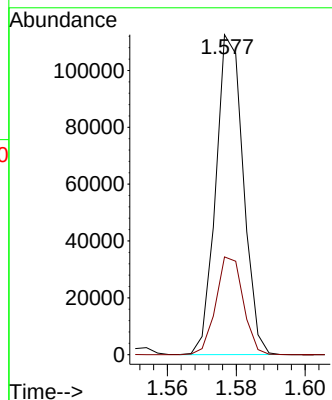
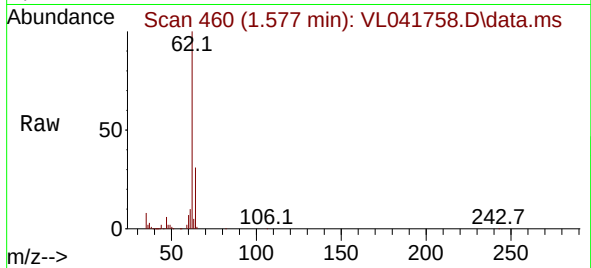
#5
 Vinyl Chloride
 Concen: 13.615 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 62250
 Ion Ratio Lower Upper
 62 100
 64 30.6 25.1 37.7

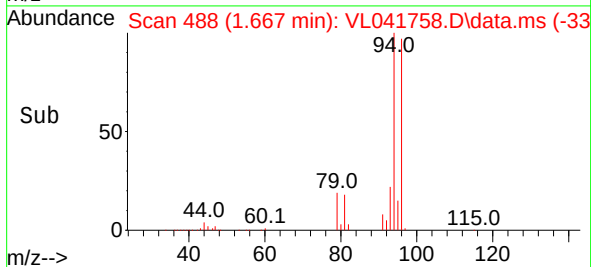
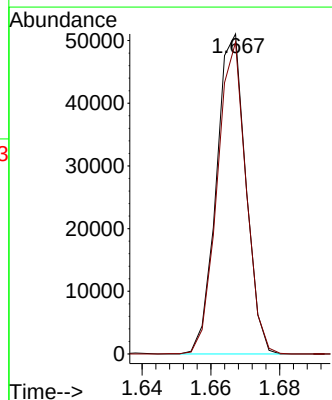
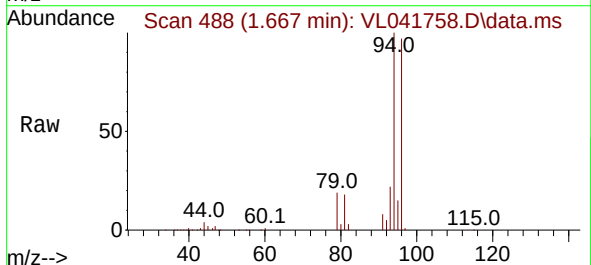
Manual Integrations
 APPROVED

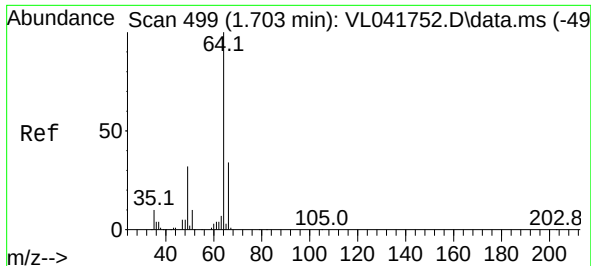
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#6
 Bromomethane
 Concen: 14.064 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

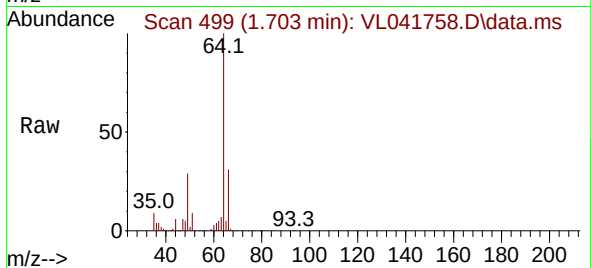
Tgt Ion: 94 Resp: 30345
 Ion Ratio Lower Upper
 94 100
 96 97.3 74.7 112.1





#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

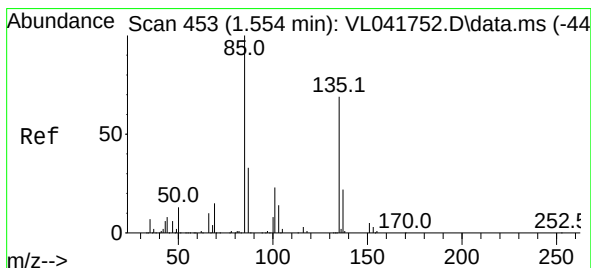
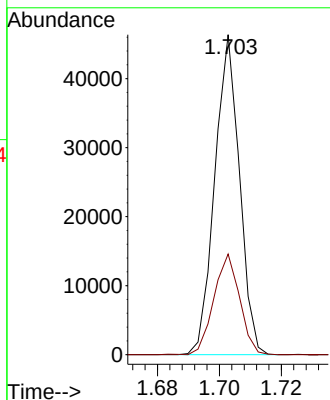
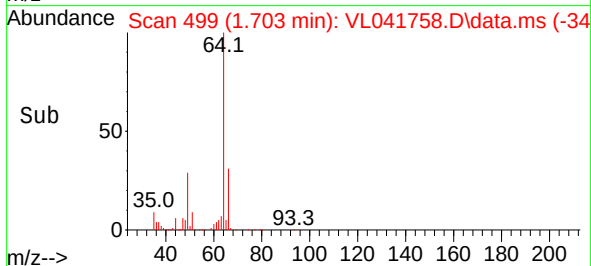
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 64 Resp: 25650
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3

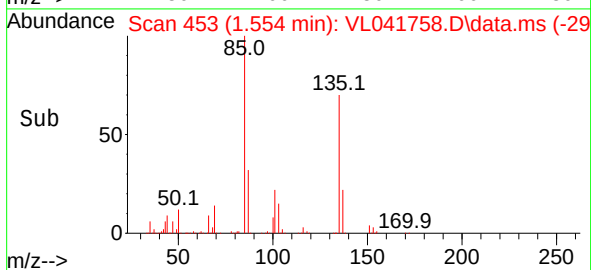
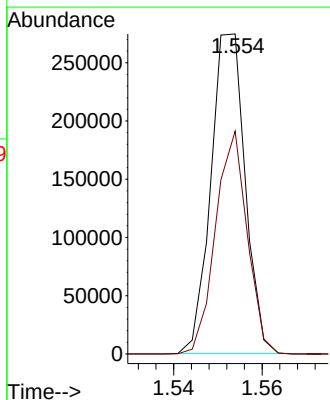
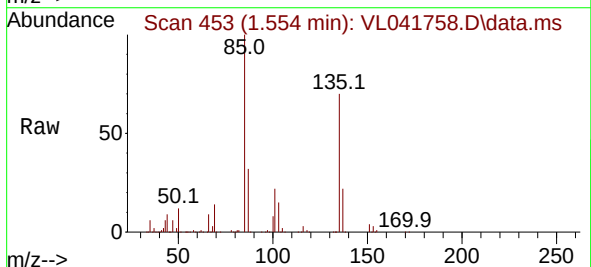
Manual Integrations
APPROVED

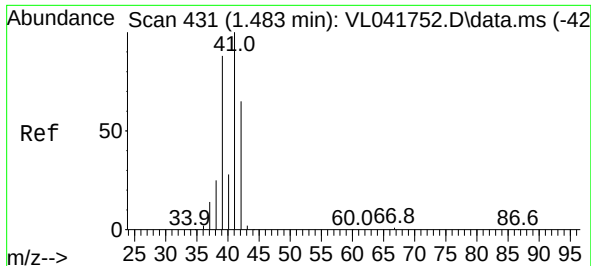
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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: 6151

Ion Ratio Lower Upper

41 100

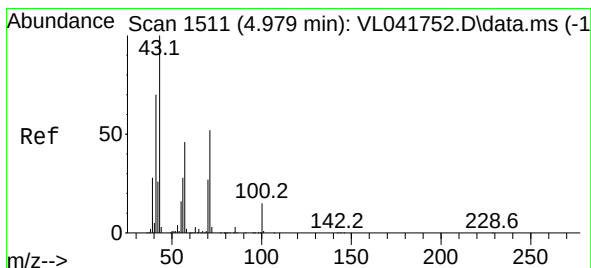
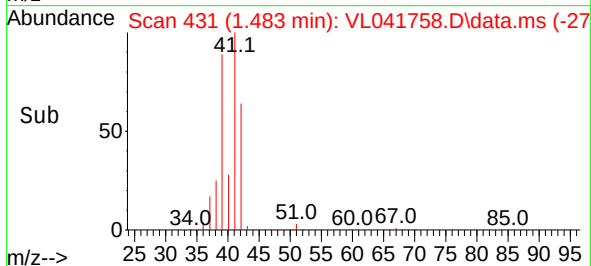
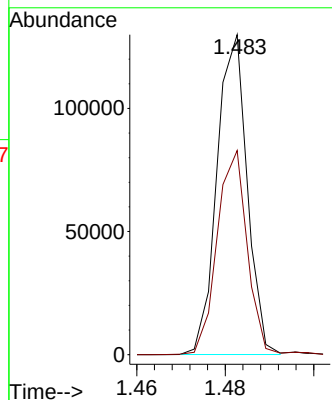
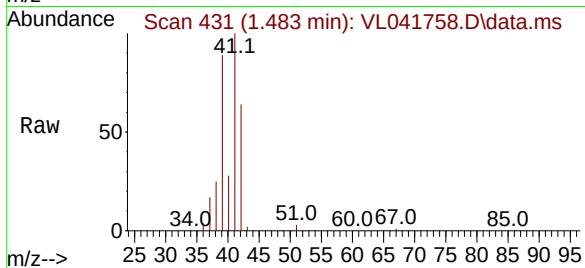
42 64.4 52.4 78.6

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

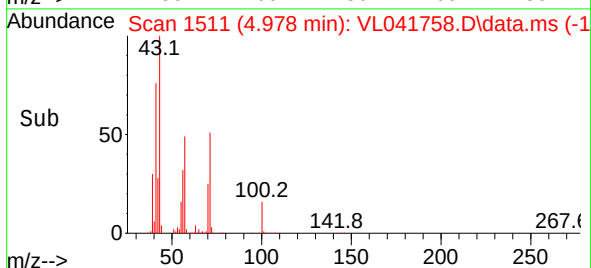
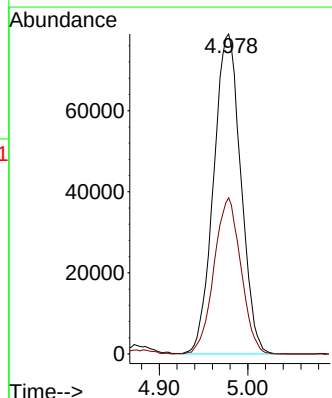
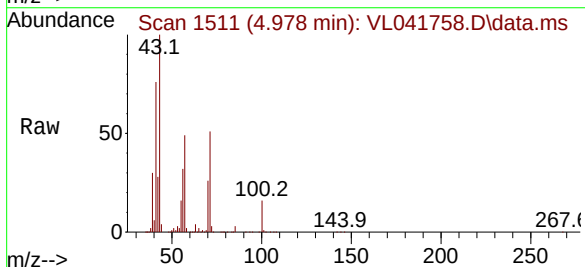
Acq: 16 Dec 2024 16:41

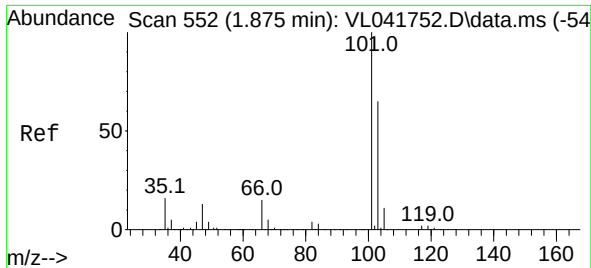
Tgt Ion: 43 Resp: 168804

Ion Ratio Lower Upper

43 100

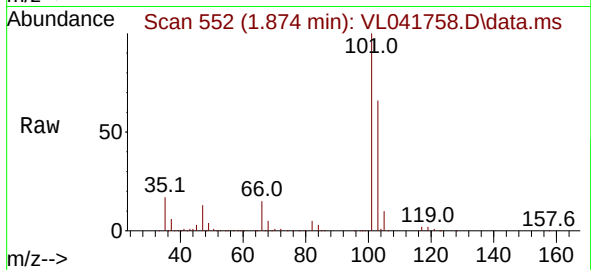
57 48.2 38.5 57.7





#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

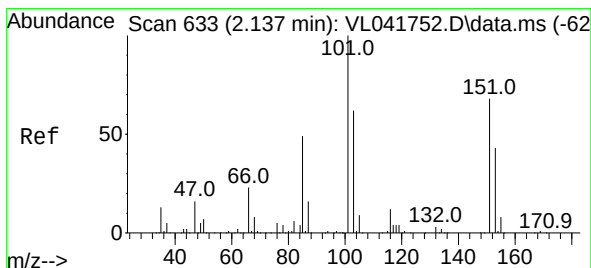
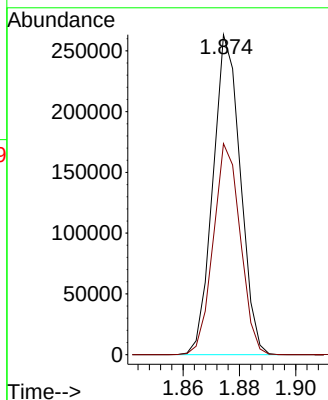
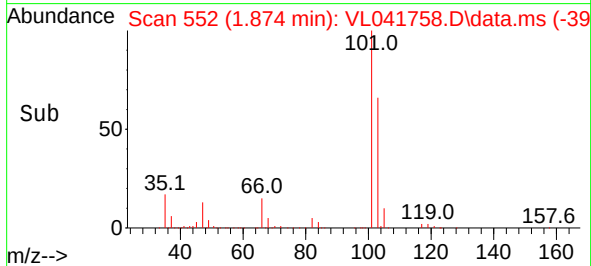
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



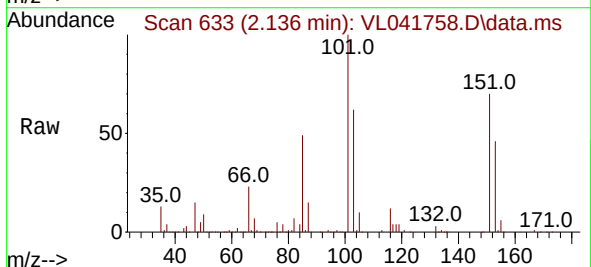
Tgt Ion:101 Resp: 177984
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.8 77.8

Manual Integrations
 APPROVED

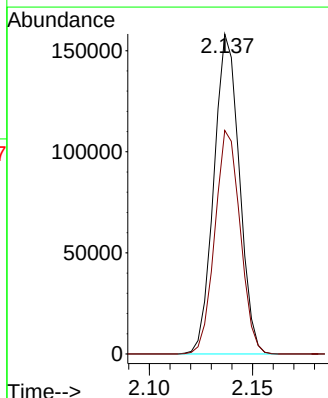
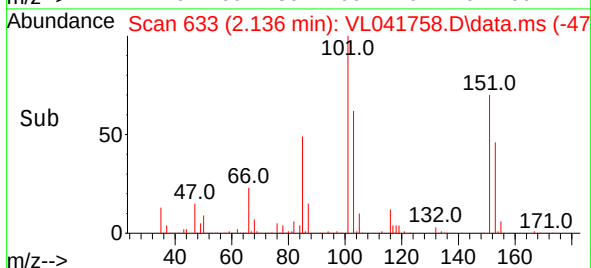
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

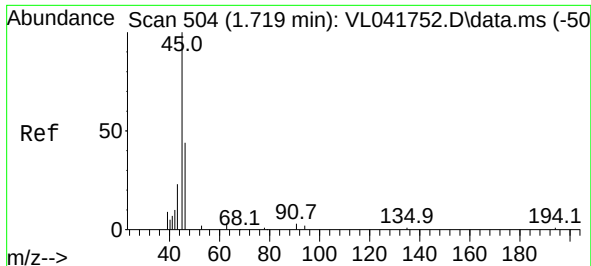


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.464 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41



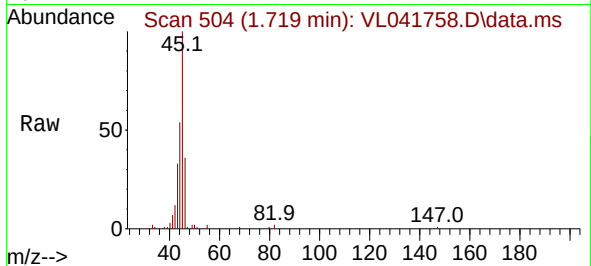
Tgt Ion:101 Resp: 135538
 Ion Ratio Lower Upper
 101 100
 151 69.6 56.8 85.2





#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

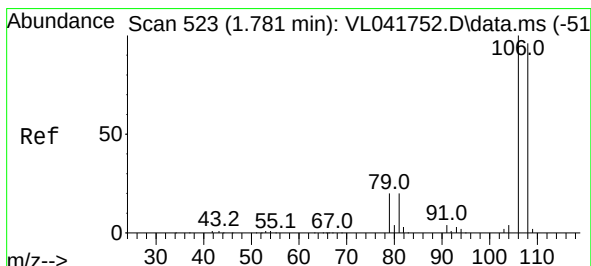
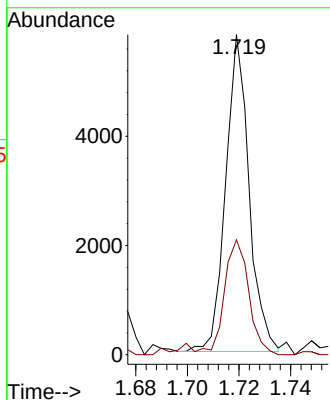
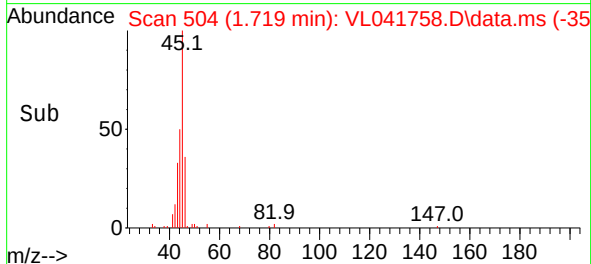
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



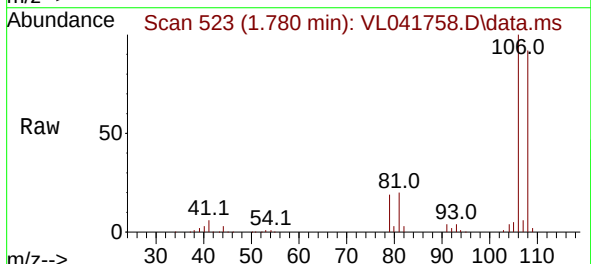
Tgt Ion: 45 Resp: 364
Ion Ratio Lower Upper
45 100
46 41.2 16.4 65.8

Manual Integrations
APPROVED

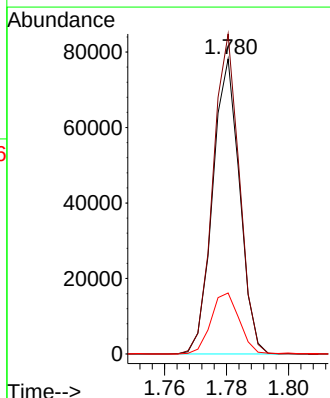
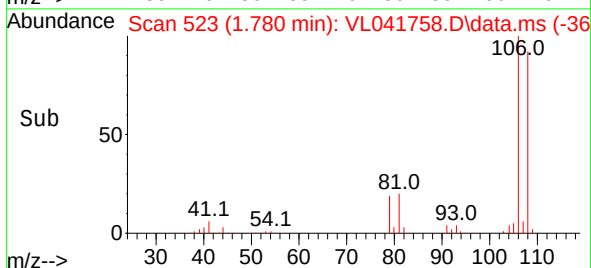
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

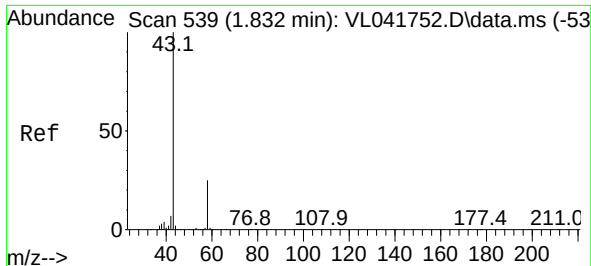


#14
Bromoethene
Concen: 14.898 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



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

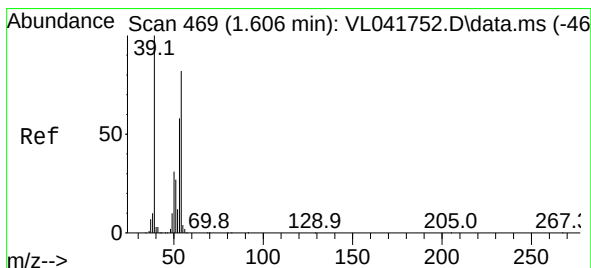
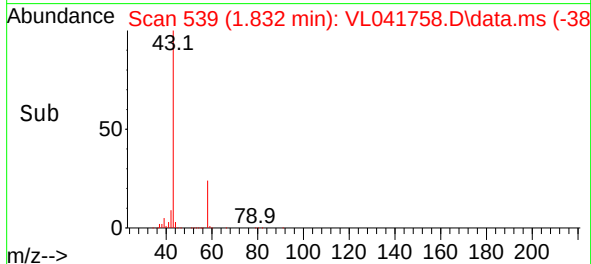
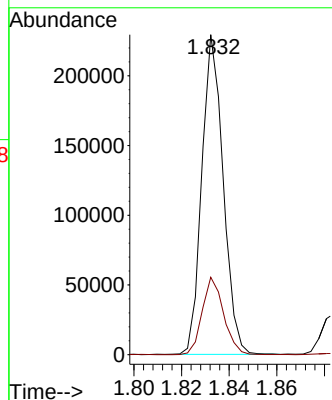
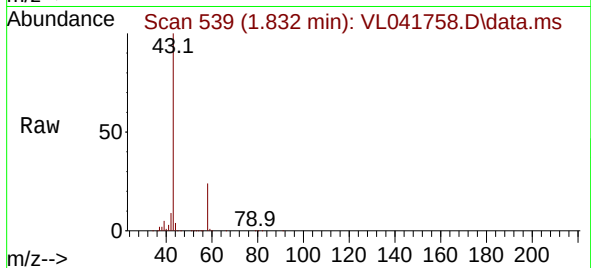
58 24.4 19.7 29.5

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

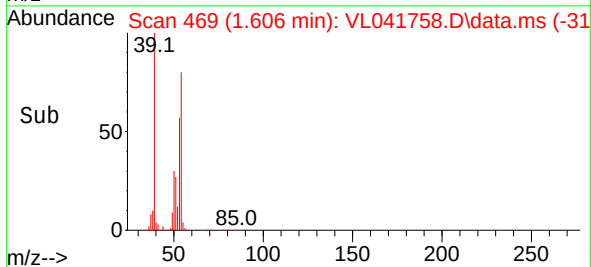
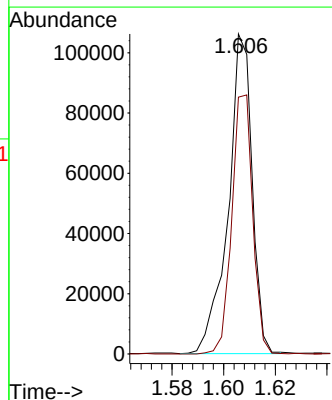
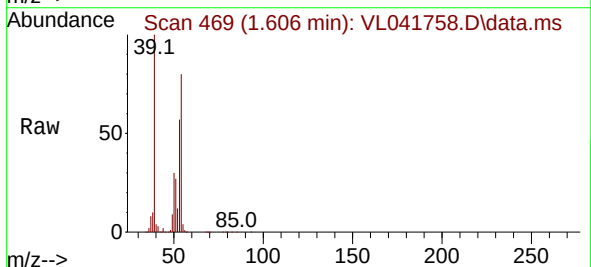
Acq: 16 Dec 2024 16:41

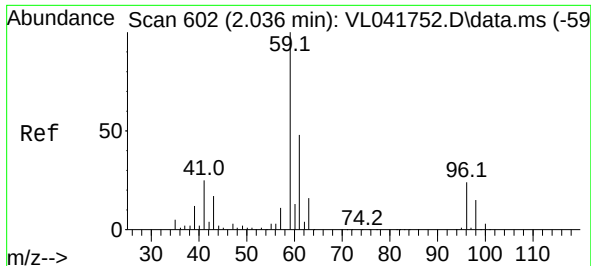
Tgt Ion: 39 Resp: 68311

Ion Ratio Lower Upper

39 100

54 71.3 58.4 87.6





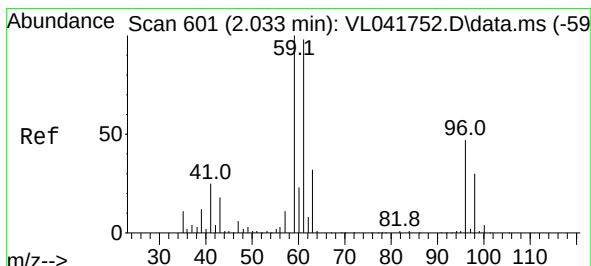
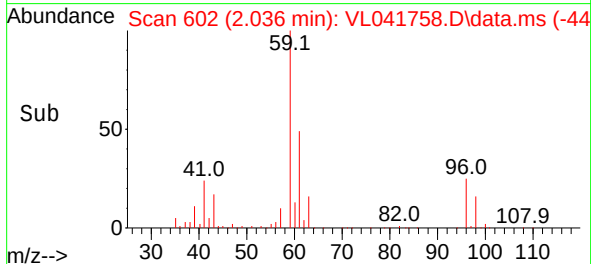
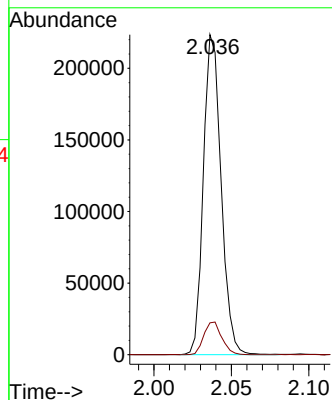
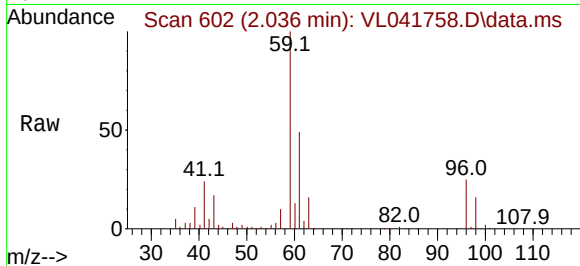
#17
tert-Butyl alcohol
Concen: 14.140 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 177908
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0

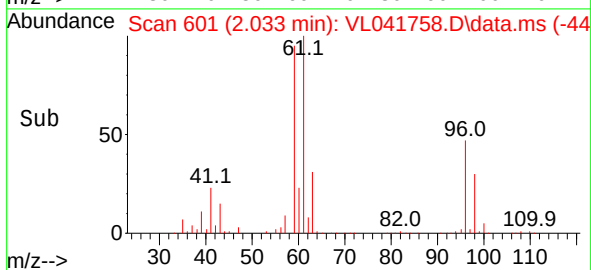
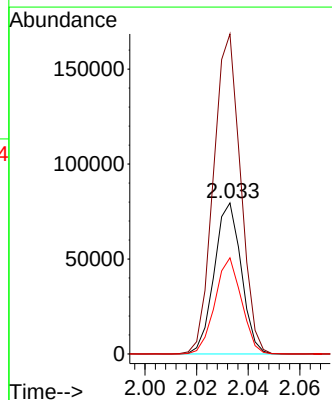
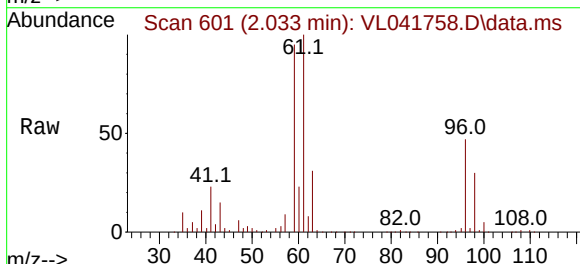
Manual Integrations
APPROVED

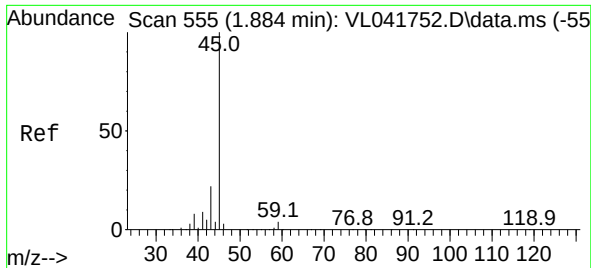
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

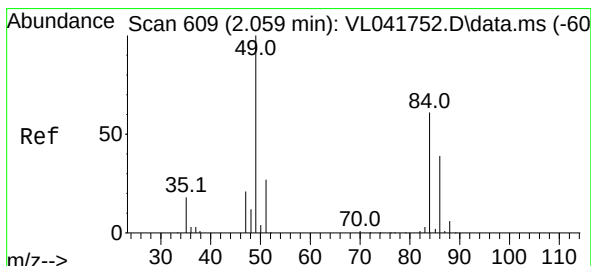
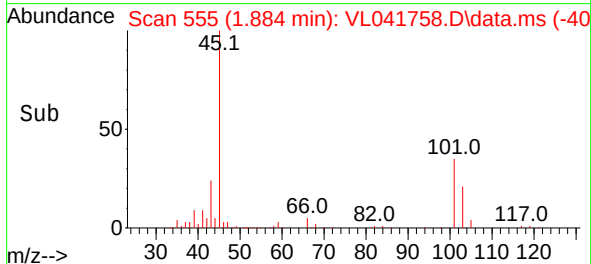
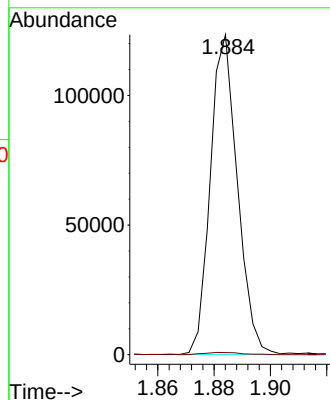
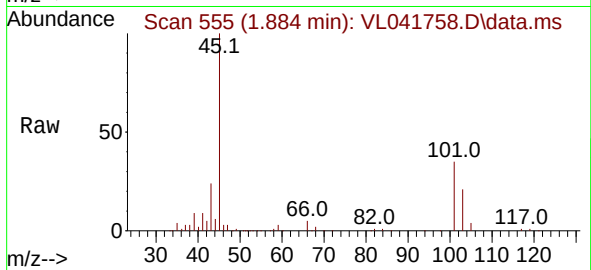
58 42.5 33.3 49.9

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

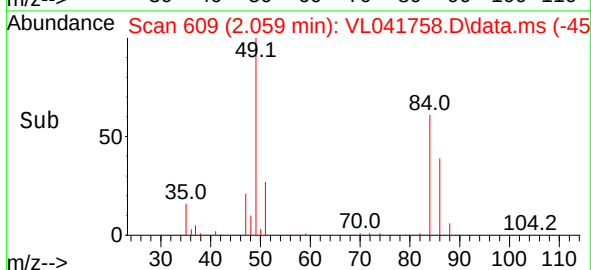
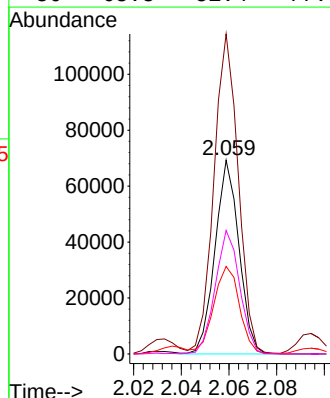
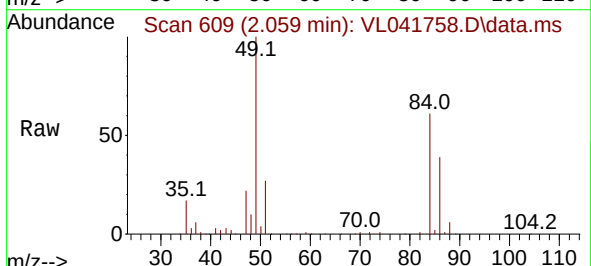
Ion Ratio Lower Upper

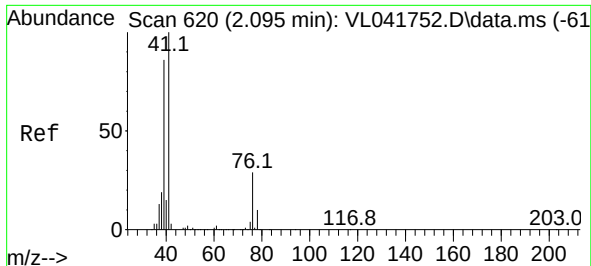
84 100

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

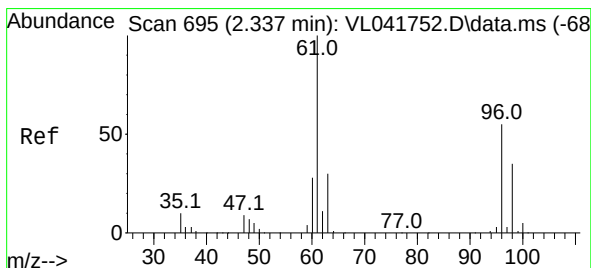
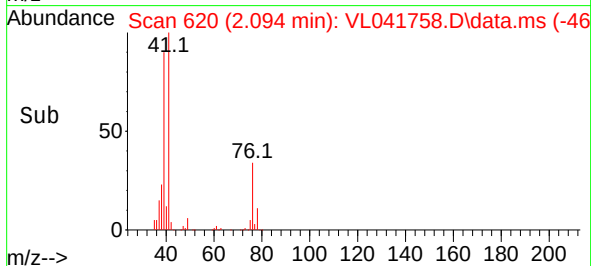
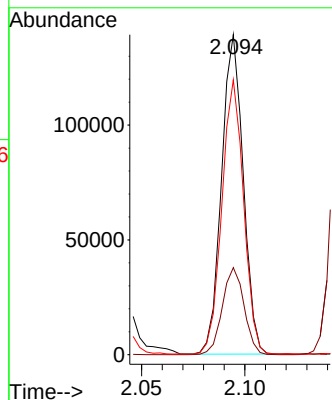
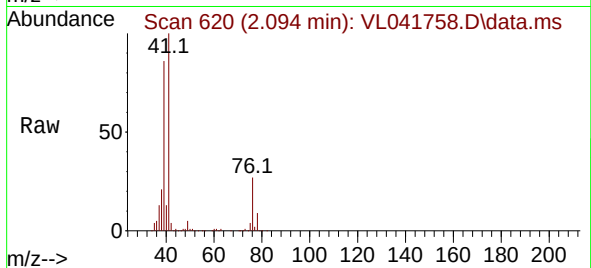
39 86.2 69.2 103.8

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

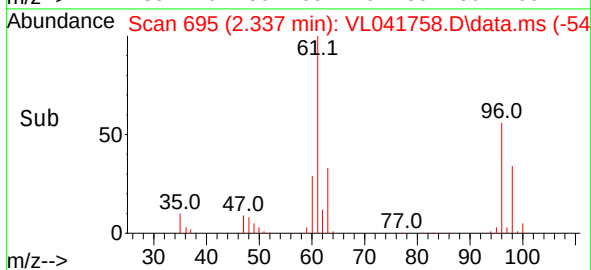
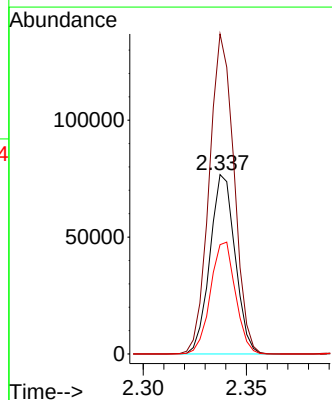
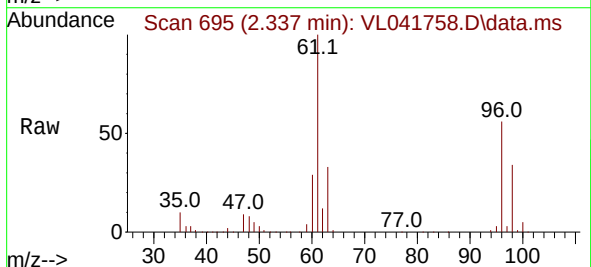
Tgt Ion: 96 Resp: 65029

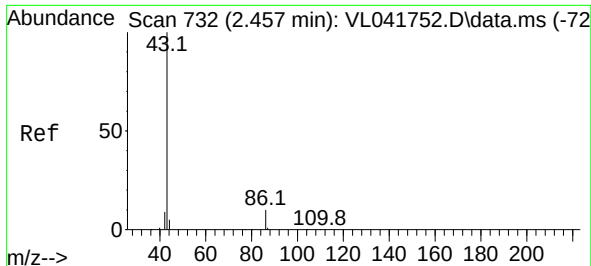
Ion Ratio Lower Upper

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 :

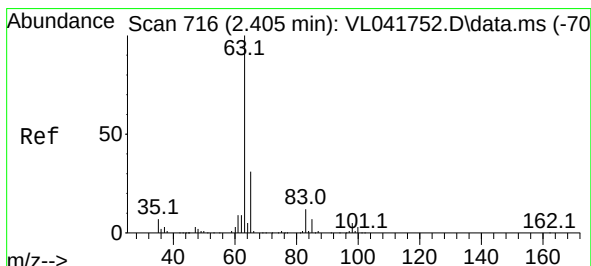
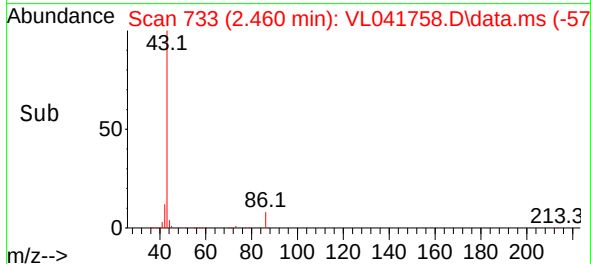
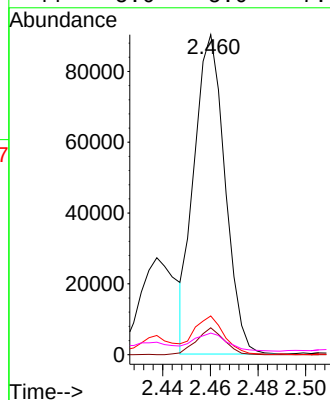
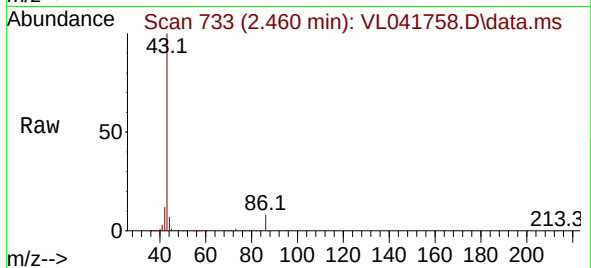
VSTDICC015

Tgt Ion: 43	Resp: 8079
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

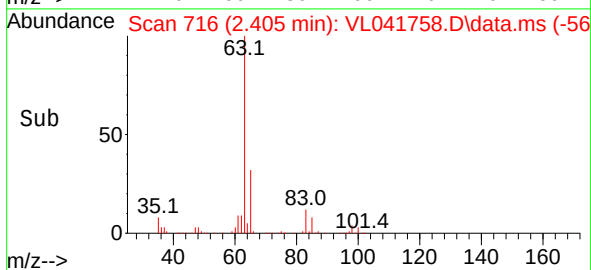
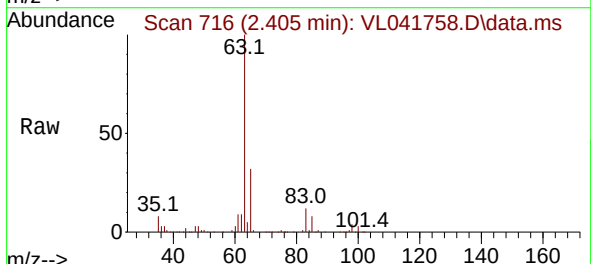
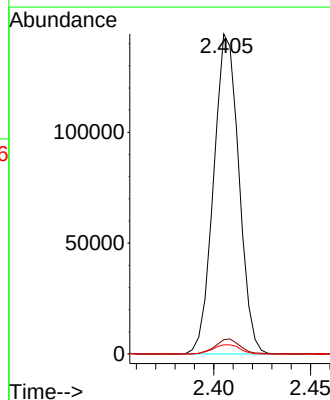
RT: 2.405 min Scan# 716

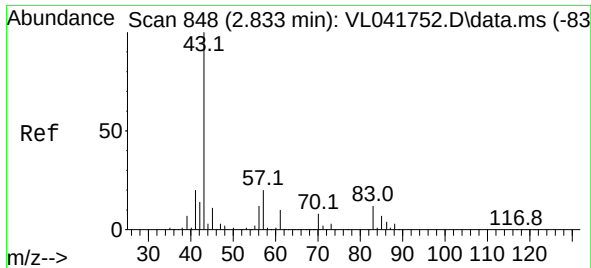
Delta R.T. -0.000 min

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 :

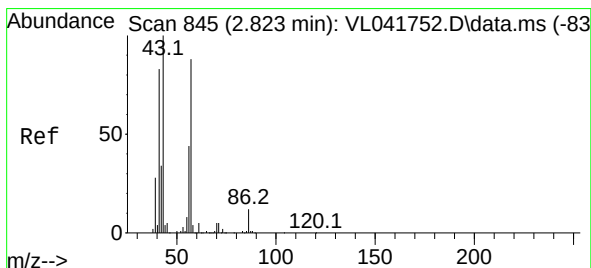
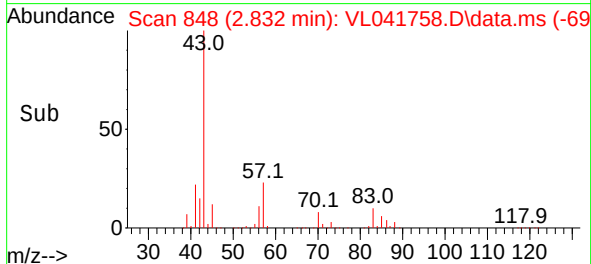
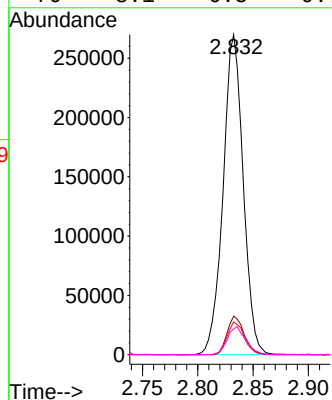
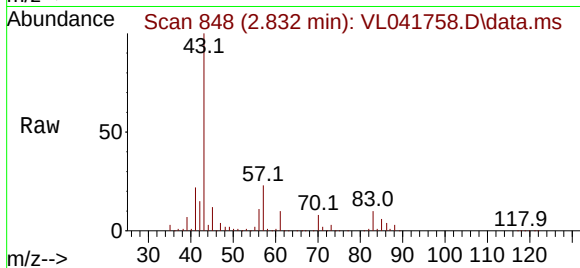
VSTDICC015

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

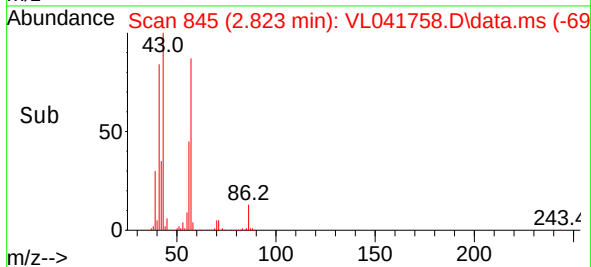
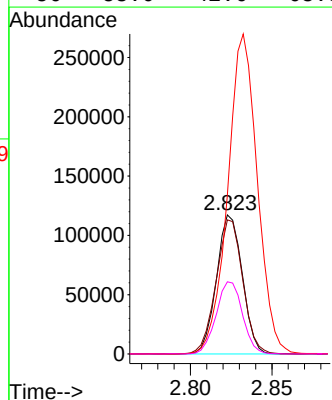
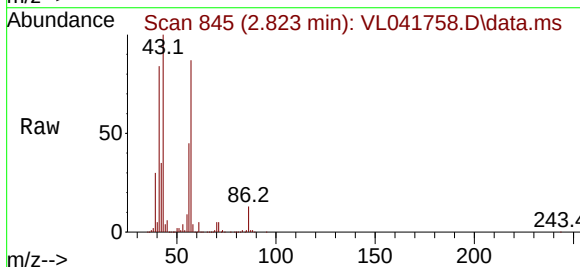
APPROVED

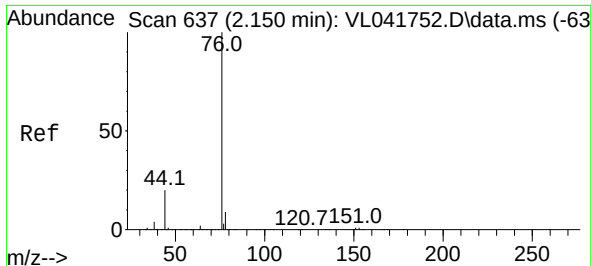
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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# 637
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

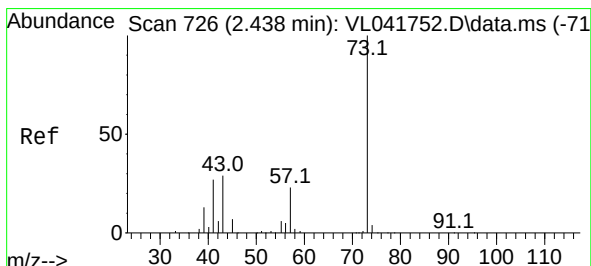
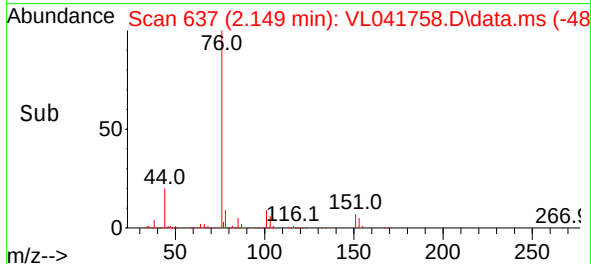
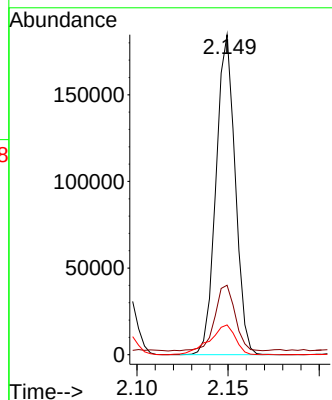
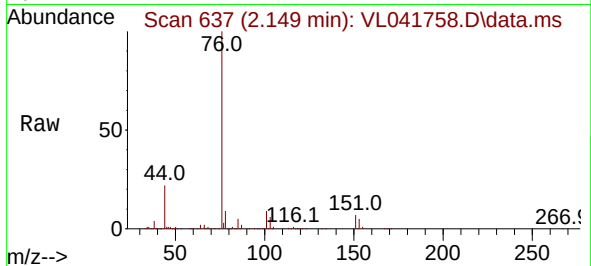
VSTDIC015

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

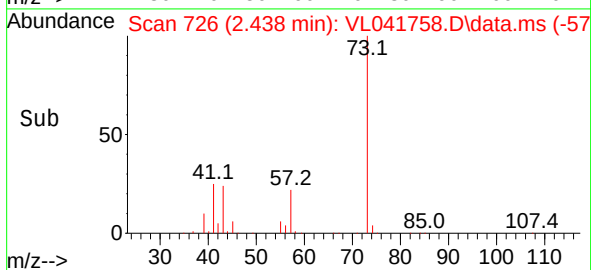
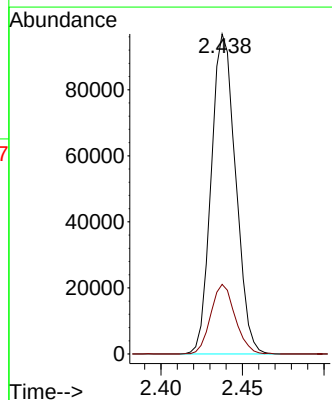
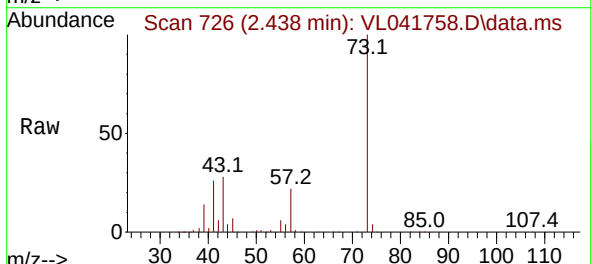
APPROVED

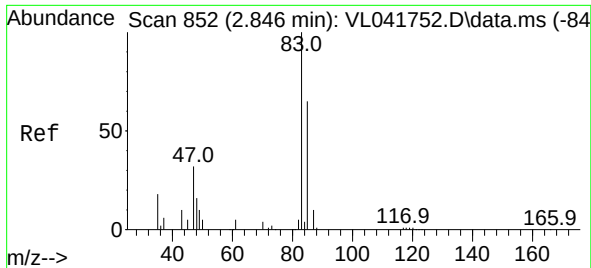
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

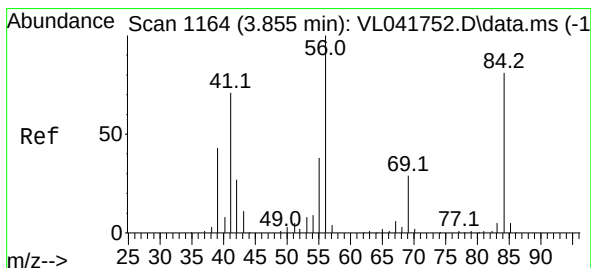
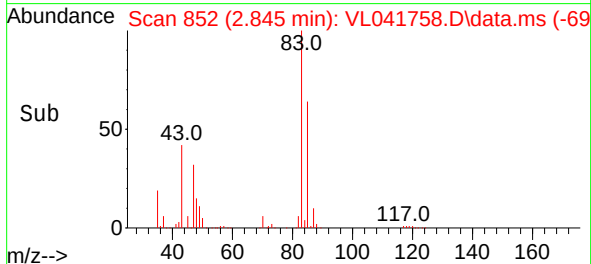
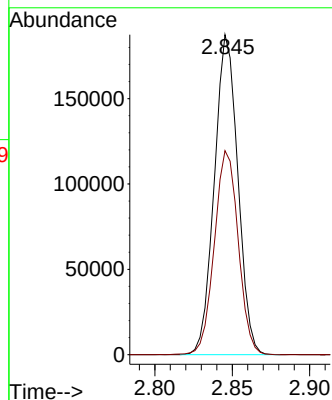
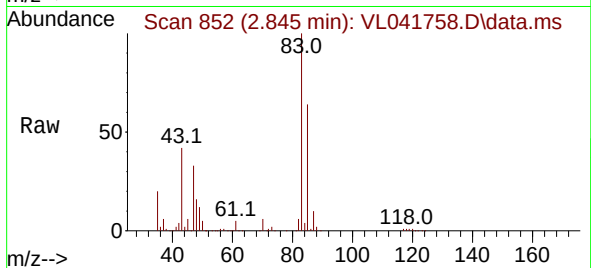
85 63.7 51.8 77.6

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

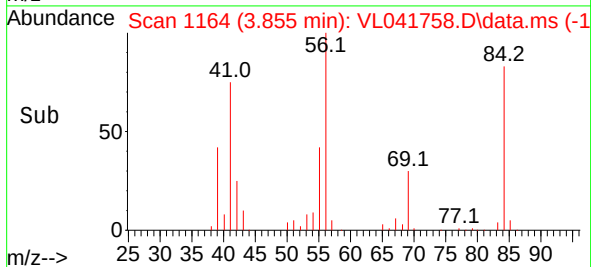
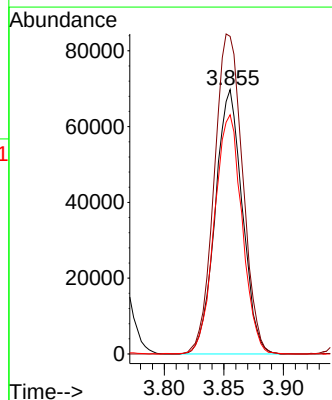
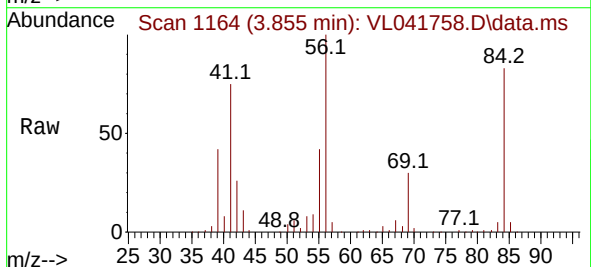
Tgt Ion: 84 Resp: 110448

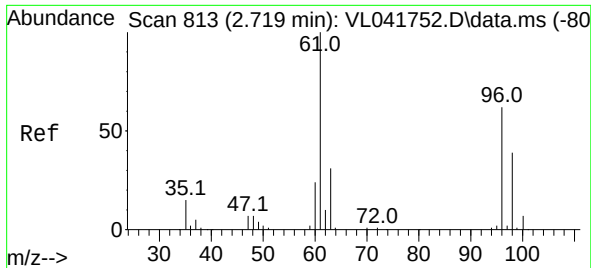
Ion Ratio Lower Upper

84 100

56 126.9 102.3 153.5

41 92.2 74.0 111.0





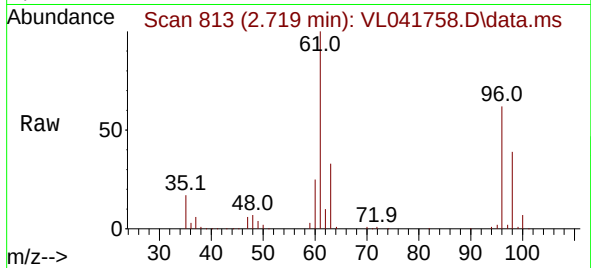
#31
 cis-1,2-Dichloroethene
 Concen: 14.355 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

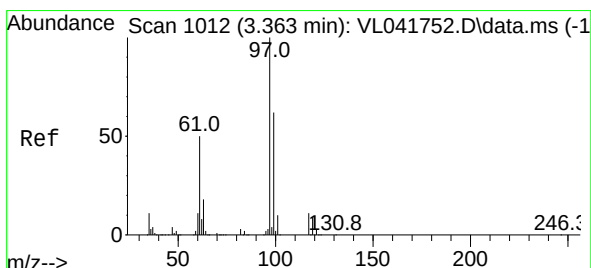
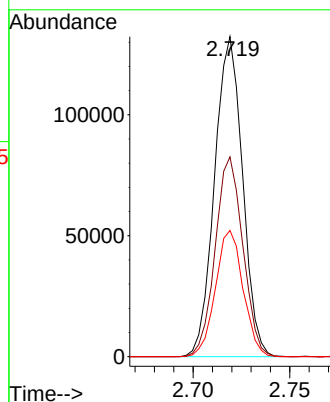
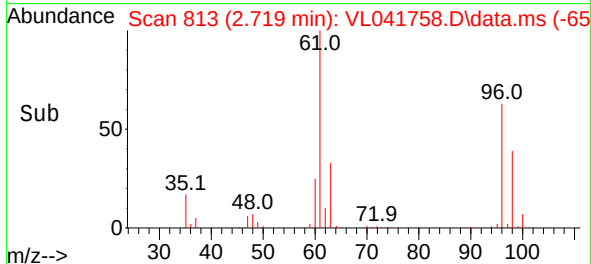


Tgt Ion: 61 Resp: 13282
 Ion Ratio Lower Upper
 61 100
 96 62.4 49.7 74.5
 98 39.4 30.8 46.2

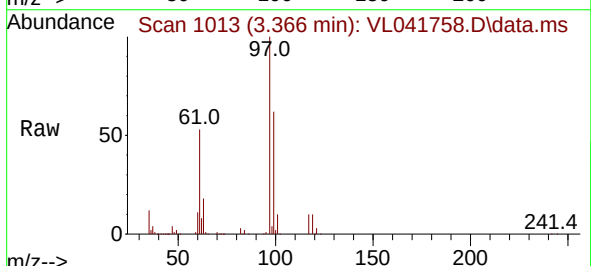
Manual Integrations

APPROVED

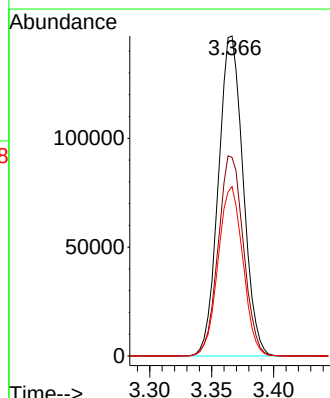
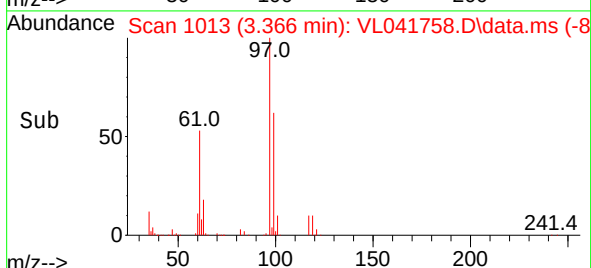
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

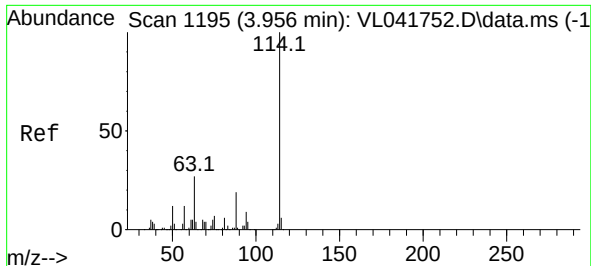


#32
 1,1,1-Trichloroethane
 Concen: 15.055 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41



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

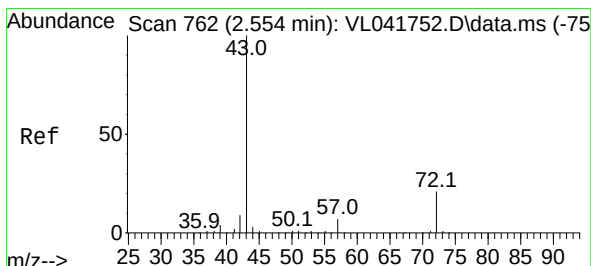
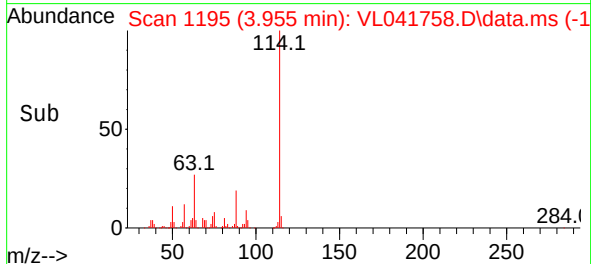
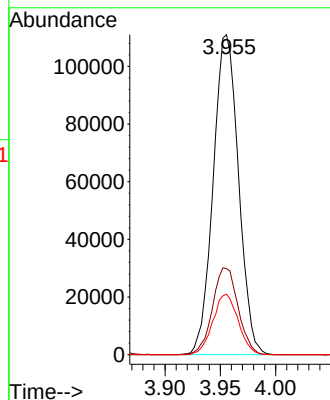
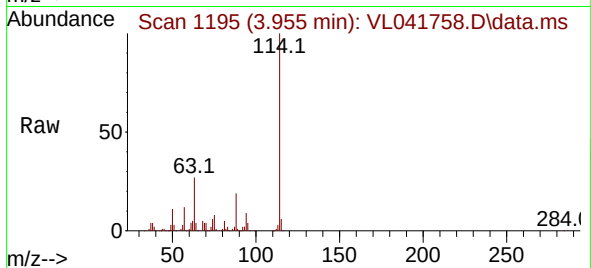
Tgt Ion:114 Resp: 176850

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

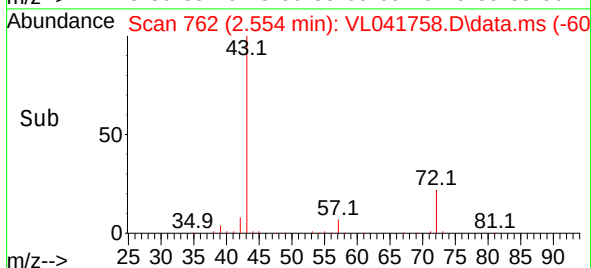
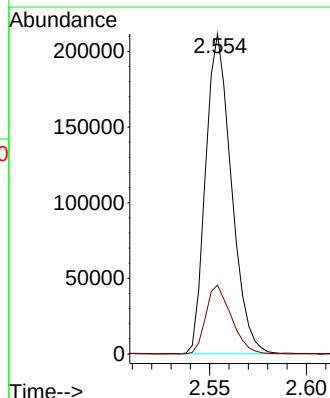
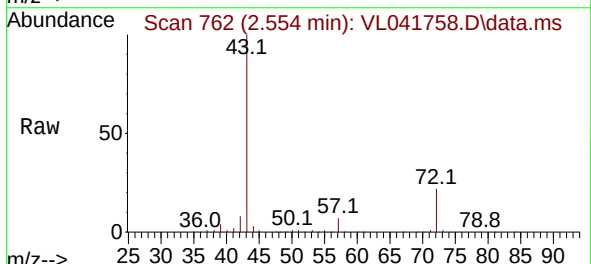
Delta R.T. -0.000 min

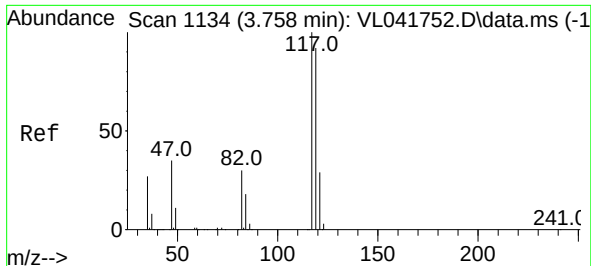
Lab File: VL041758.D

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

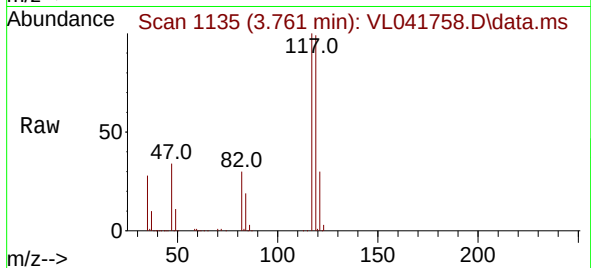
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion:117 Resp: 20625

Ion Ratio Lower Upper

117 100

119 99.2 73.7 110.5

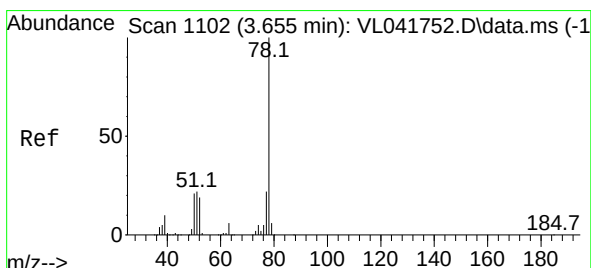
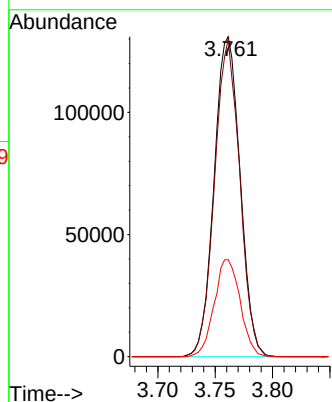
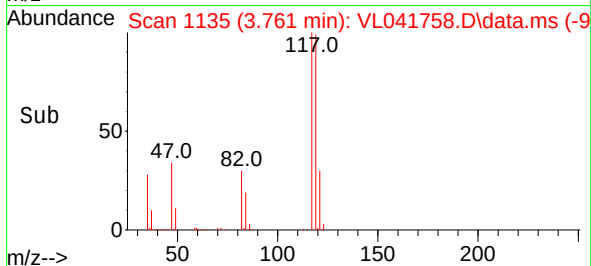
121 30.3 23.0 34.4

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

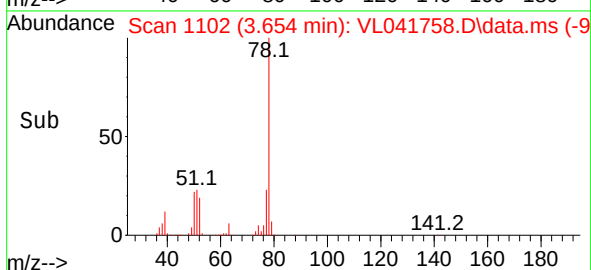
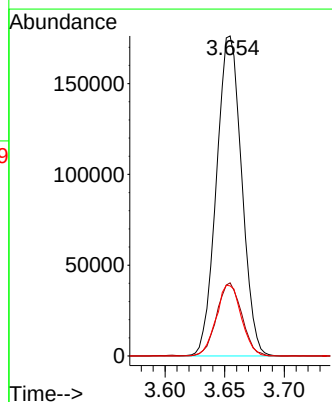
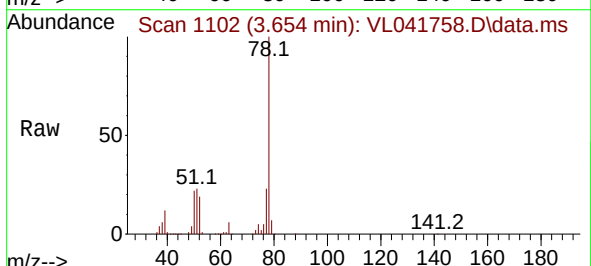
Tgt Ion: 78 Resp: 259630

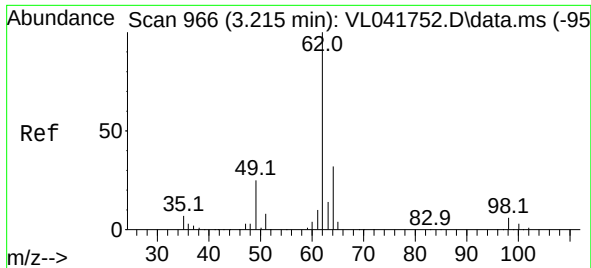
Ion Ratio Lower Upper

78 100

77 22.8 17.8 26.6

50 21.9 17.2 25.8





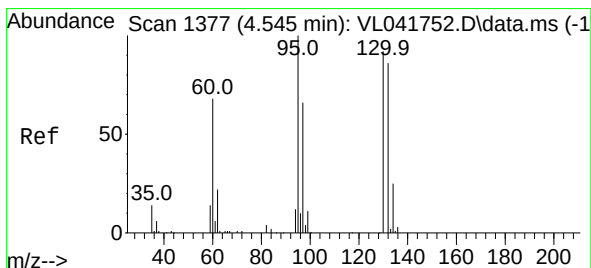
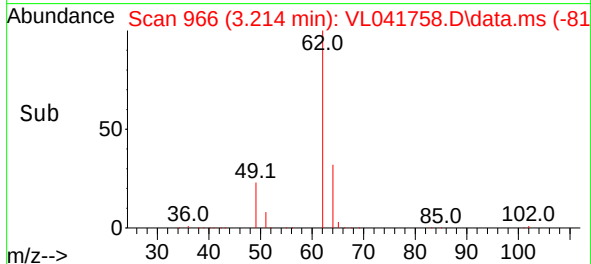
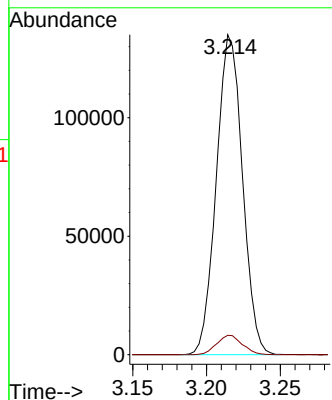
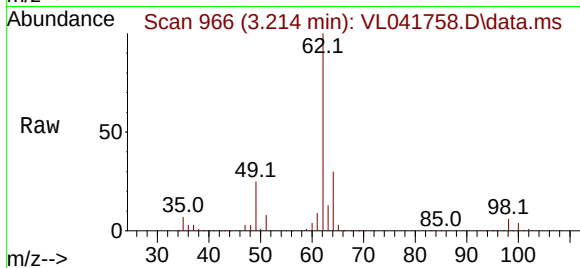
#37
1,2-Dichloroethane
Concen: 14.633 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 166570
Ion Ratio Lower Upper
62 100
98 5.9 4.7 7.1

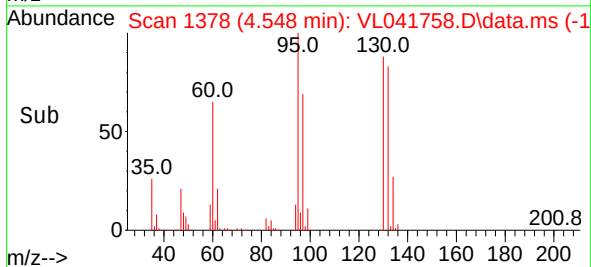
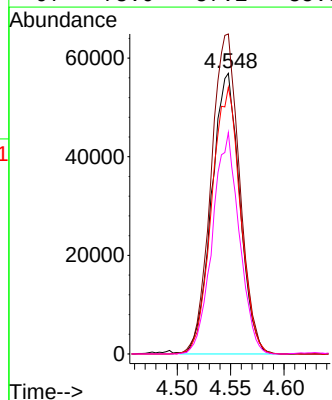
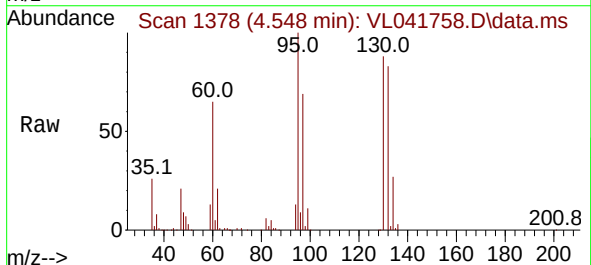
Manual Integrations
APPROVED

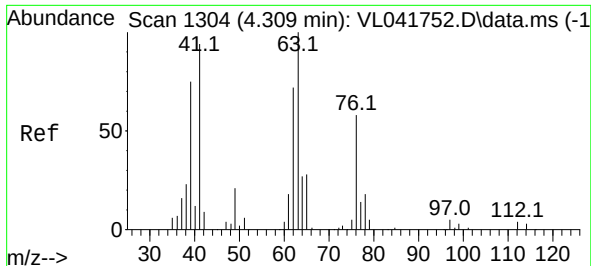
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

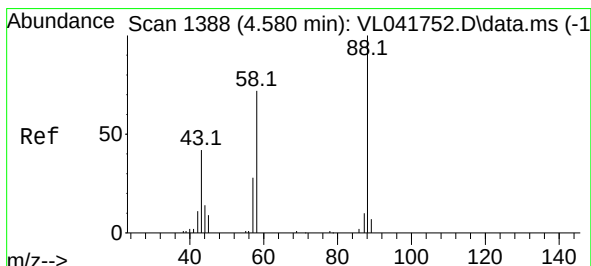
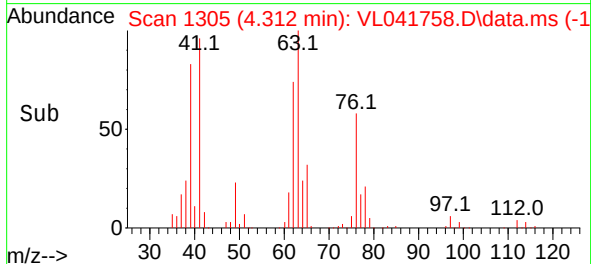
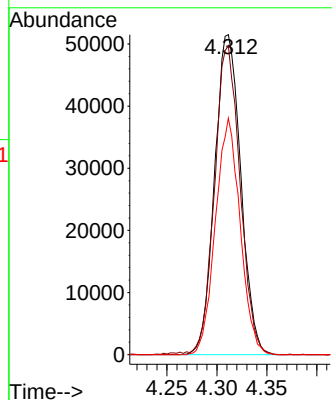
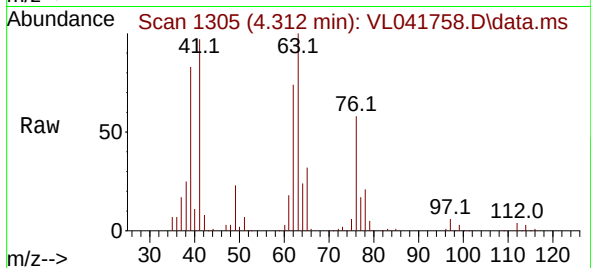
VSTDIC015

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

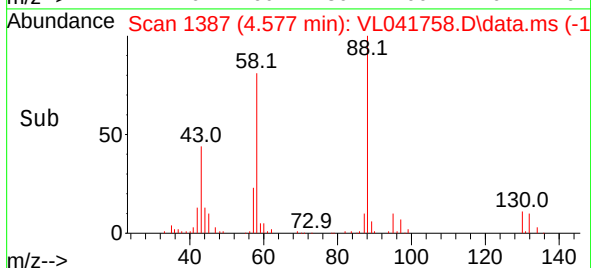
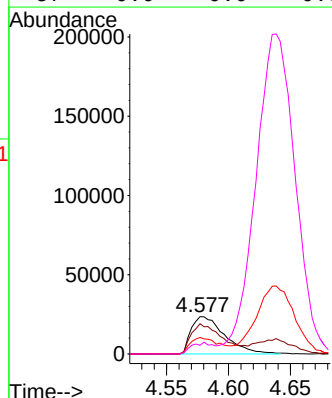
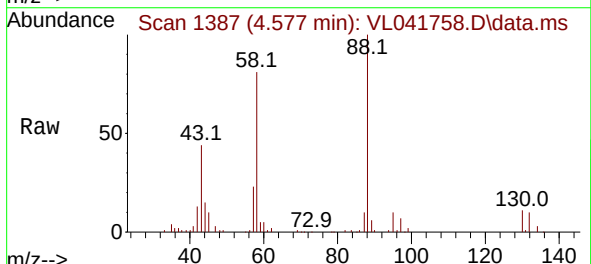
RT: 4.577 min Scan# 1387

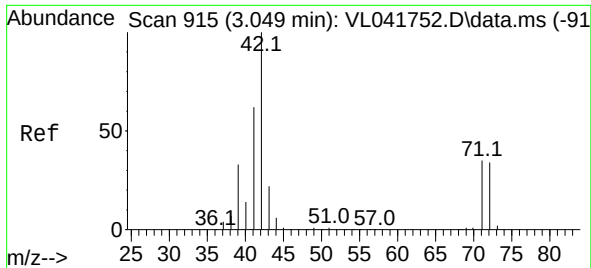
Delta R.T. -0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

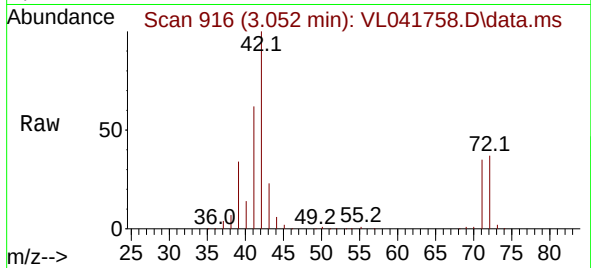
Tgt Ion:	88	Resp:	44377
Ion Ratio	Lower	Upper	
88	100		
58	77.8	61.0	91.6
43	42.4	29.4	44.0
57	0.0	0.0	0.0





#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

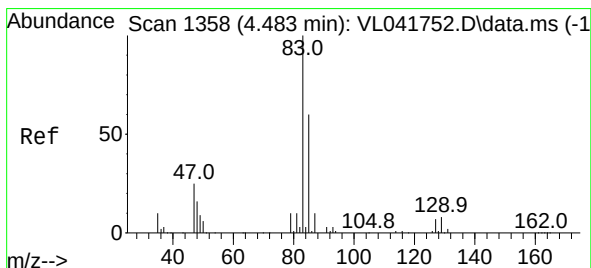
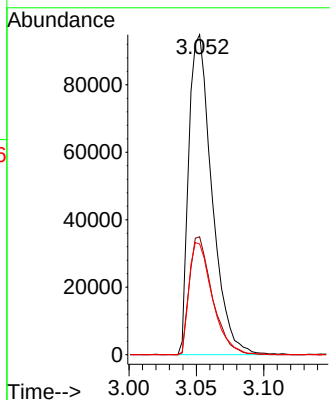
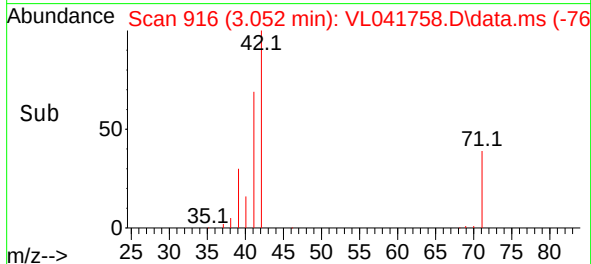
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



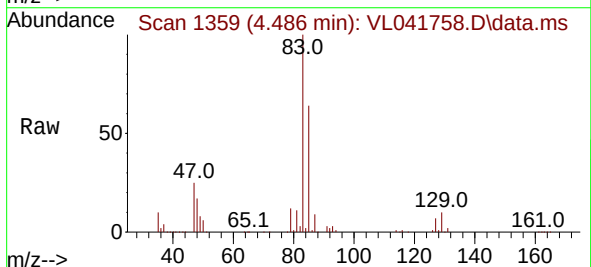
Tgt Ion: 42 Resp: 113618
Ion Ratio Lower Upper
42 100
72 36.4 29.1 43.7
71 35.3 28.4 42.6

Manual Integrations
APPROVED

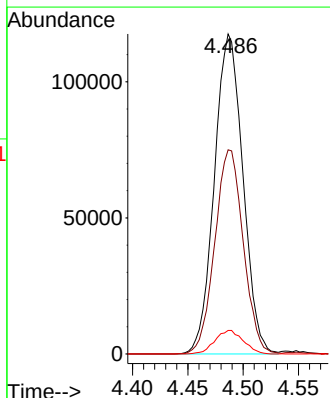
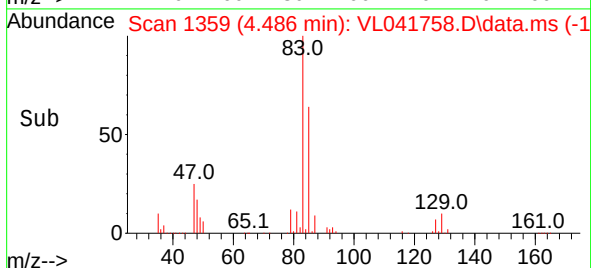
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

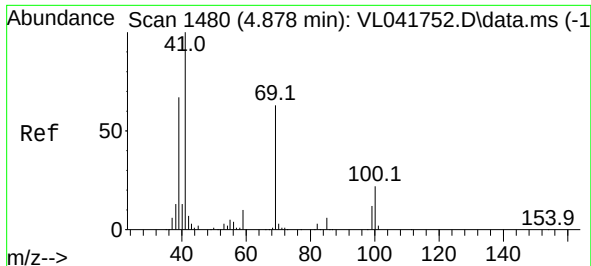


#42
Bromodichloromethane
Concen: 16.123 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



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

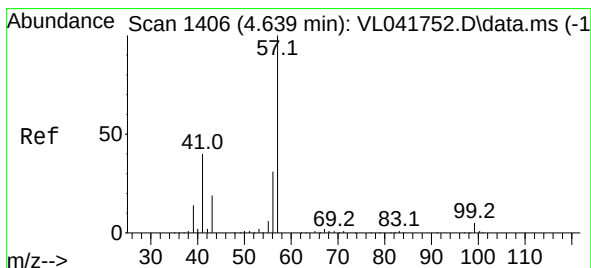
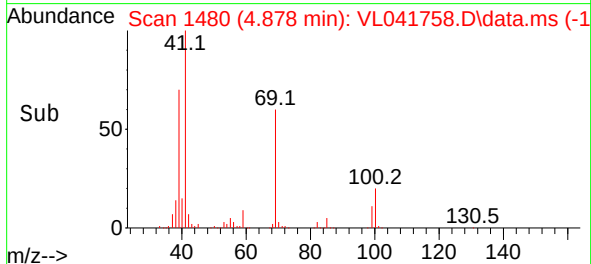
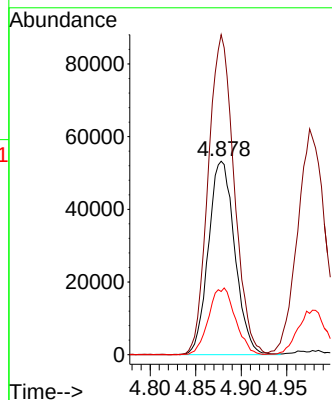
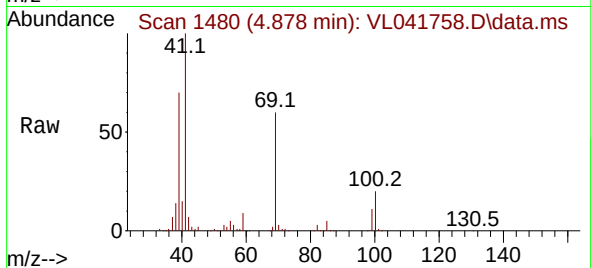
100 35.0 28.3 42.5

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

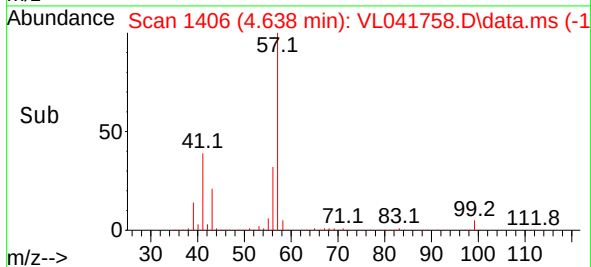
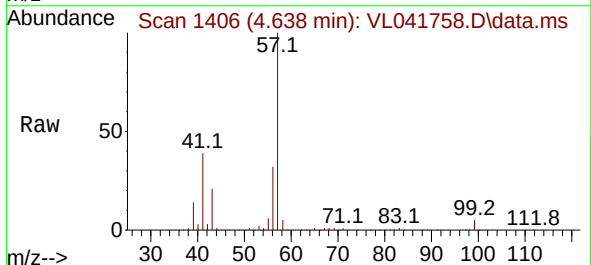
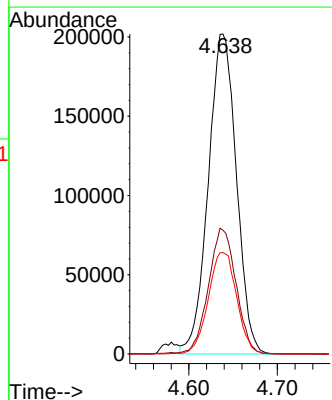
Tgt Ion: 57 Resp: 445947

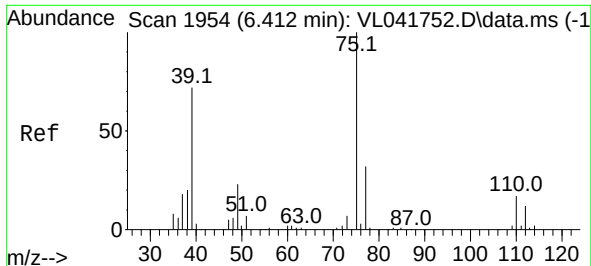
Ion Ratio Lower Upper

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# 1

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

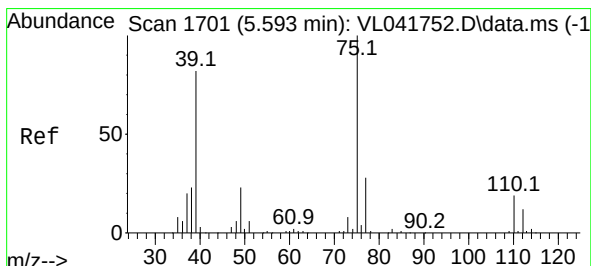
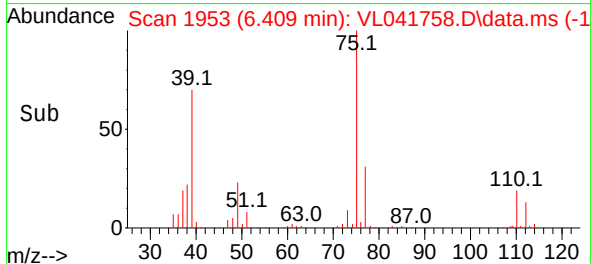
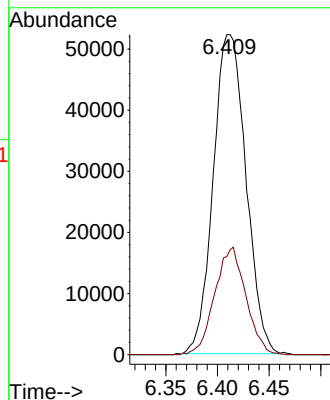
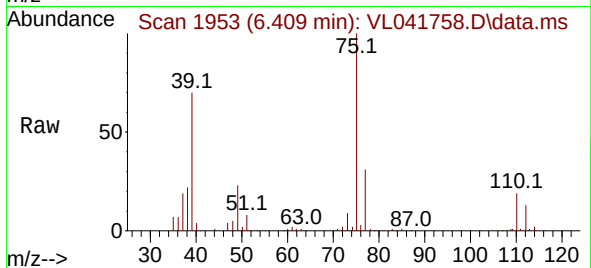
77 30.6 25.9 38.9

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

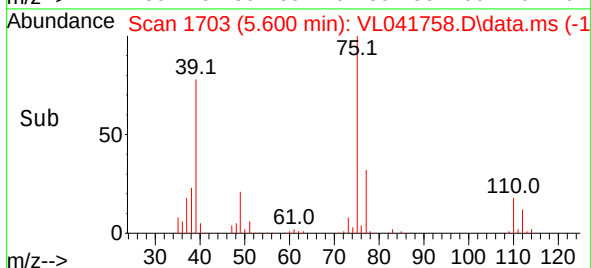
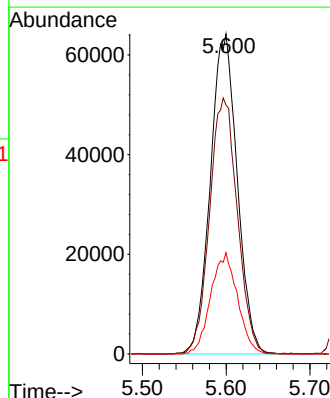
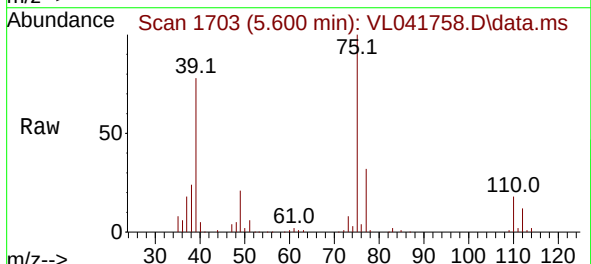
Tgt Ion: 75 Resp: 143172

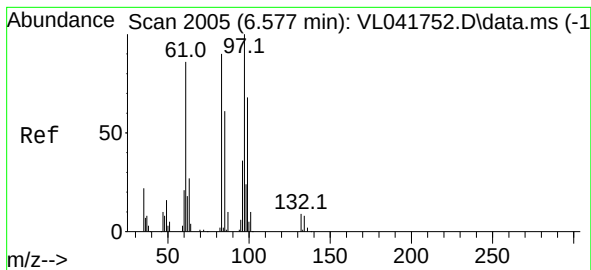
Ion Ratio Lower Upper

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

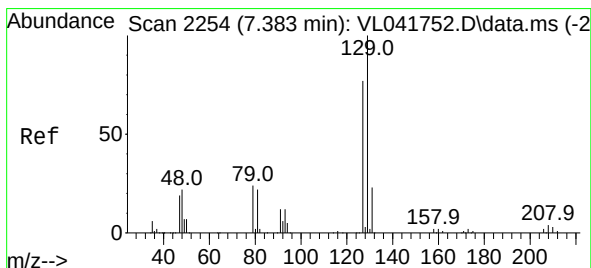
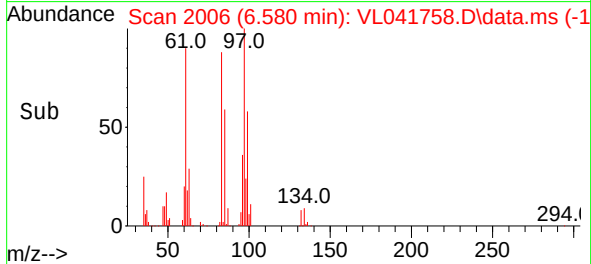
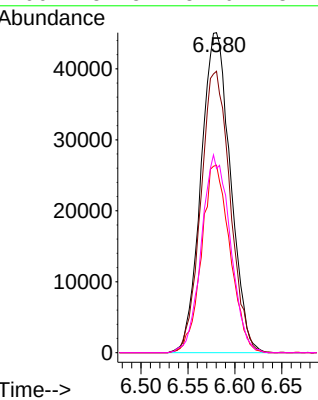
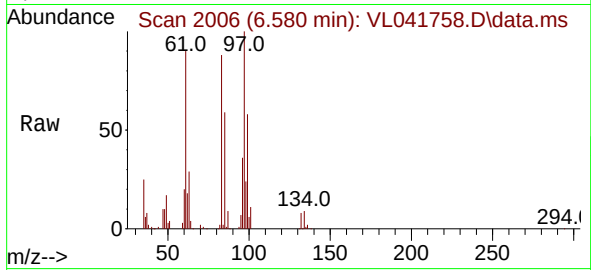
99 57.5 54.0 81.0

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

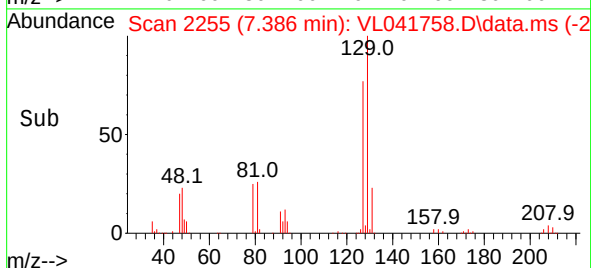
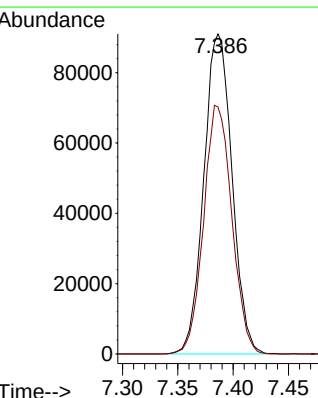
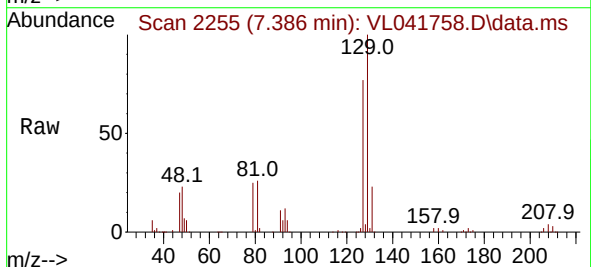
Acq: 16 Dec 2024 16:41

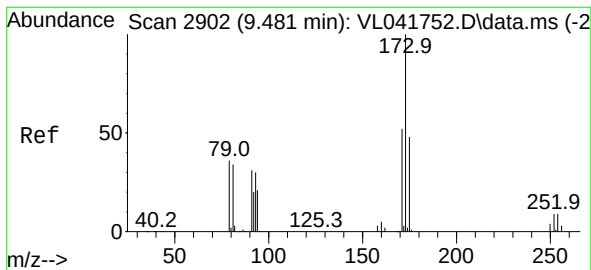
Tgt Ion:129 Resp: 161661

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 :

VSTDICC015

Tgt Ion:173 Resp: 137780

Ion Ratio Lower Upper

173 100

175 48.2 38.2 57.2

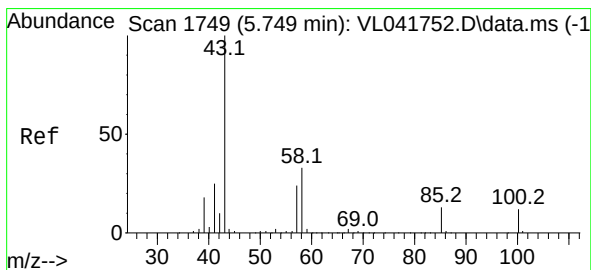
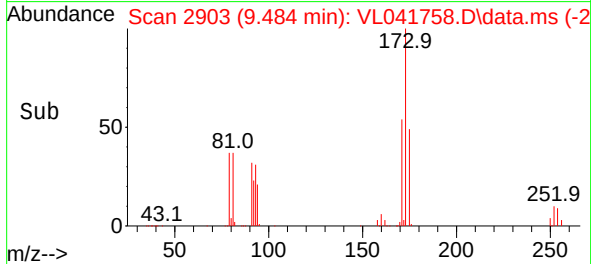
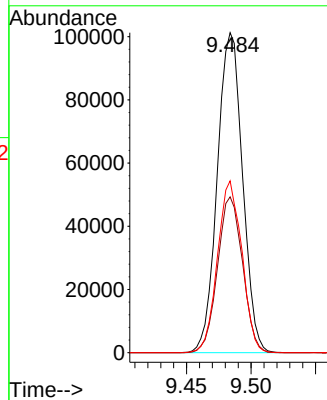
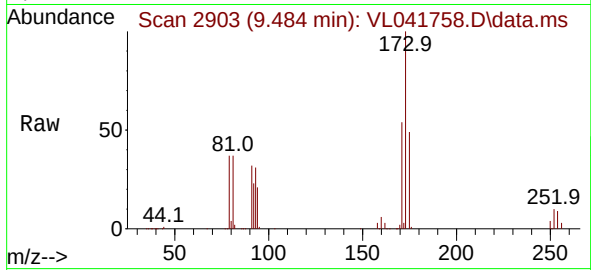
171 51.8 41.1 61.7

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

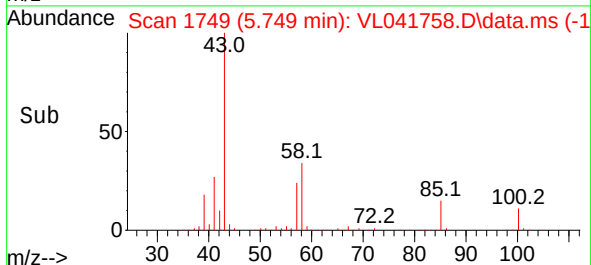
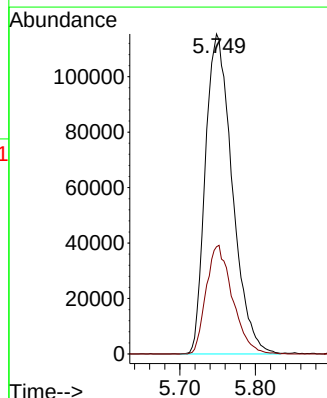
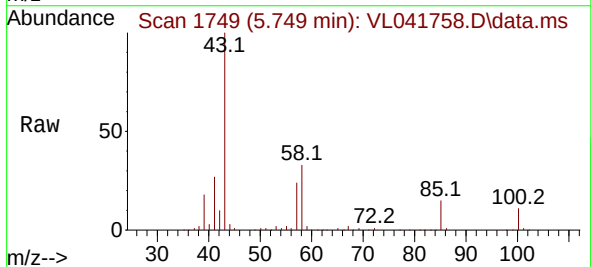
Acq: 16 Dec 2024 16:41

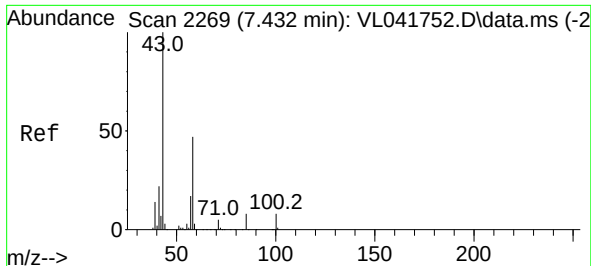
Tgt Ion: 43 Resp: 285467

Ion Ratio Lower Upper

43 100

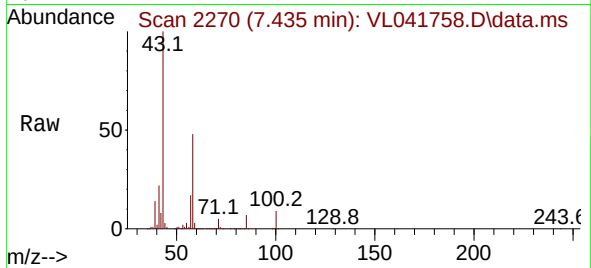
58 33.2 26.8 40.2





#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

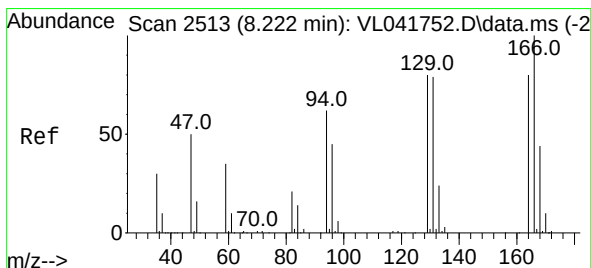
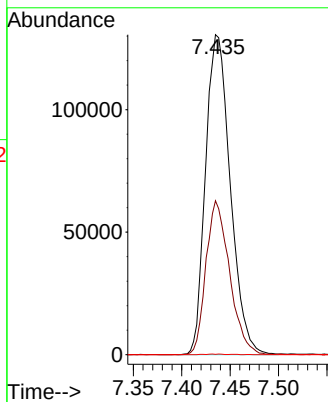
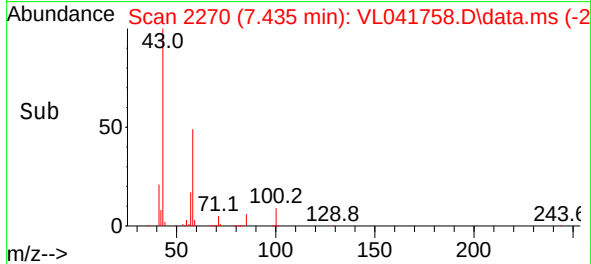
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



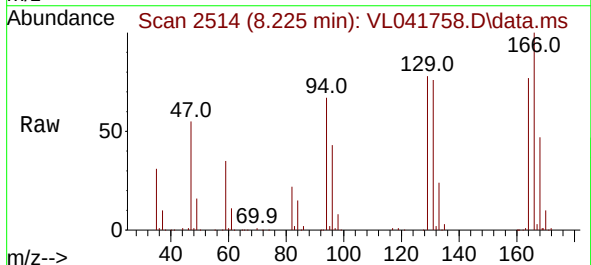
Tgt Ion: 43 Resp: 23236
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.2 0.1 0.1

Manual Integrations
APPROVED

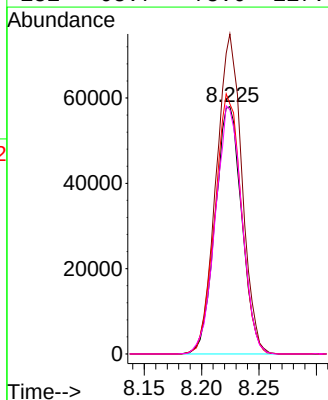
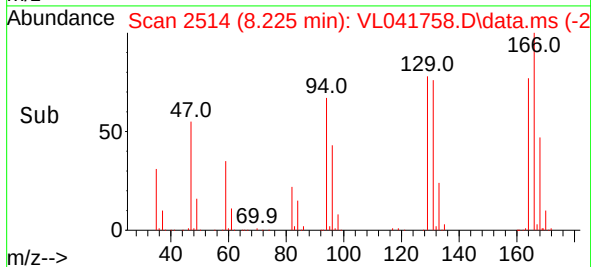
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

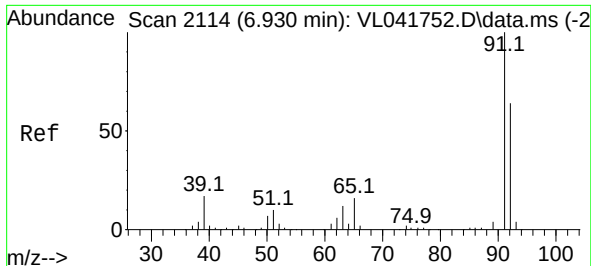


#52
Tetrachloroethene
Concen: 13.675 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



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

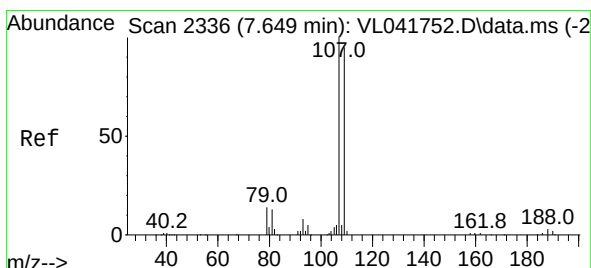
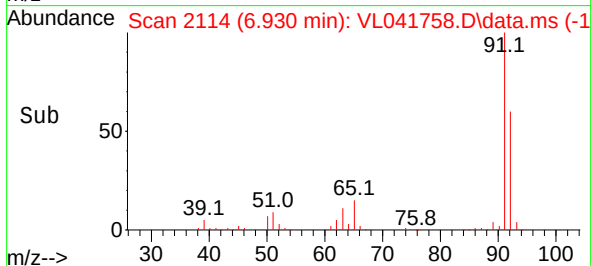
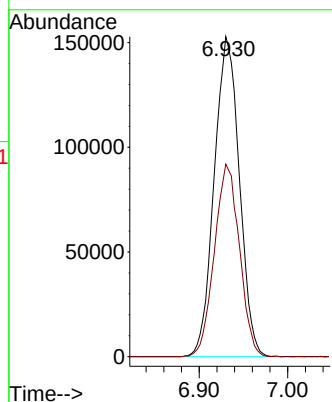
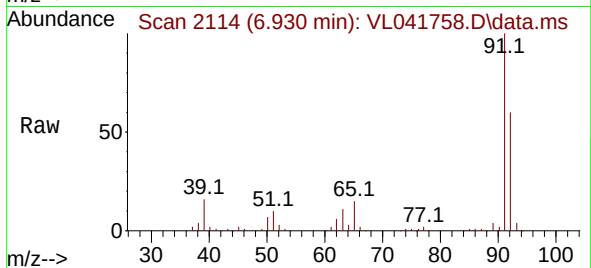
92 59.9 47.9 71.9

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

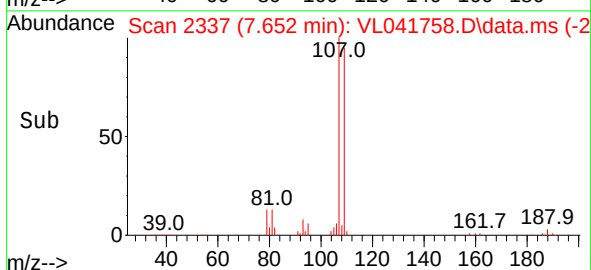
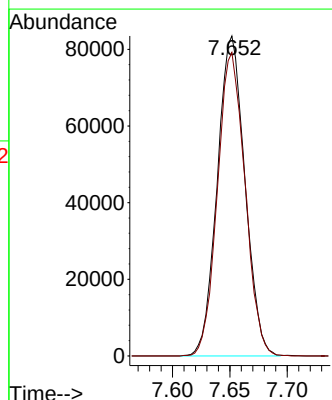
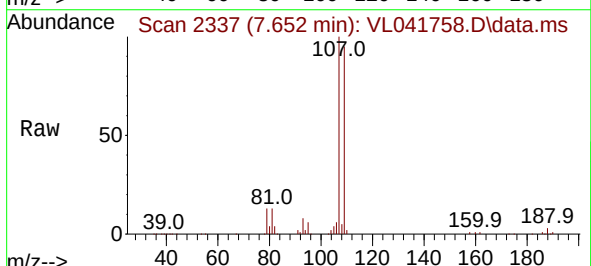
Acq: 16 Dec 2024 16:41

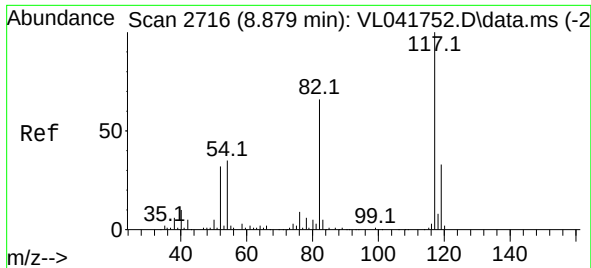
Tgt Ion:107 Resp: 139889

Ion Ratio Lower Upper

107 100

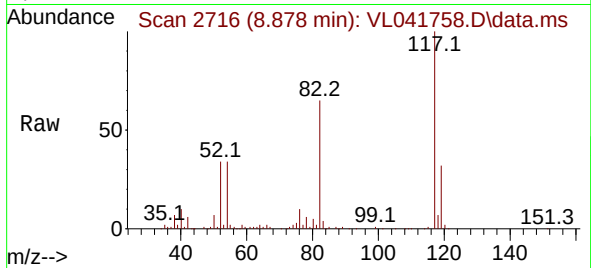
109 94.9 75.9 113.9





#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

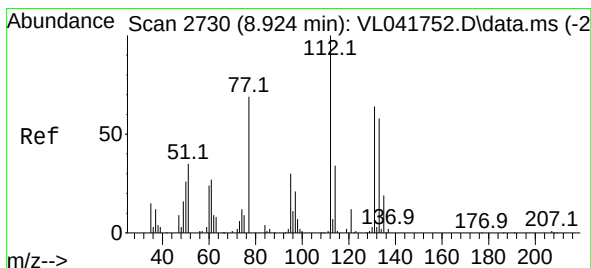
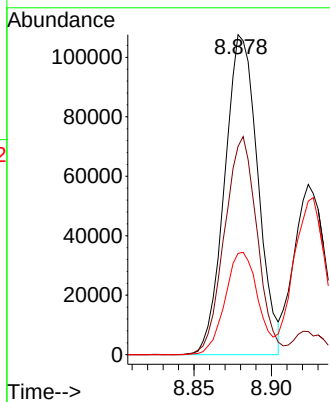
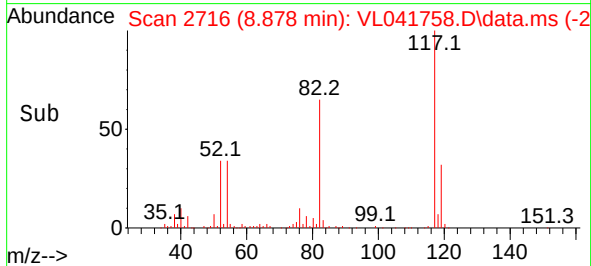
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

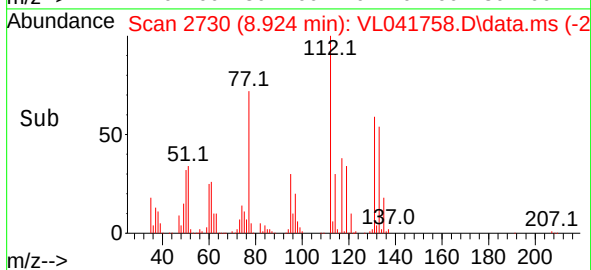
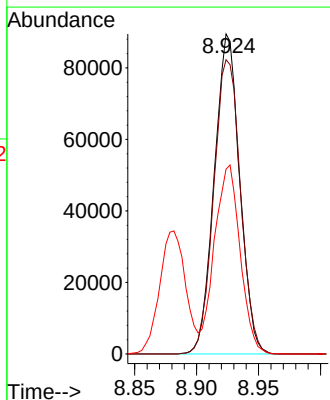
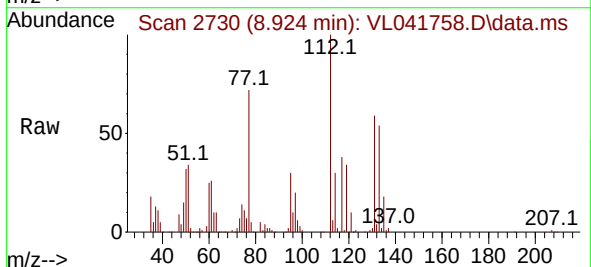
Manual Integrations
APPROVED

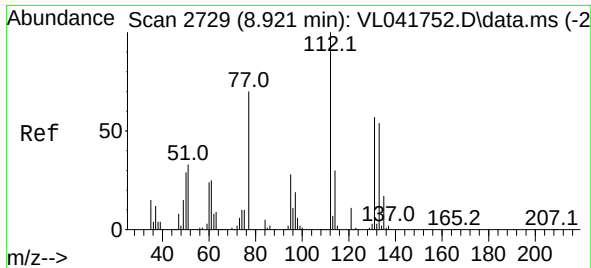
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

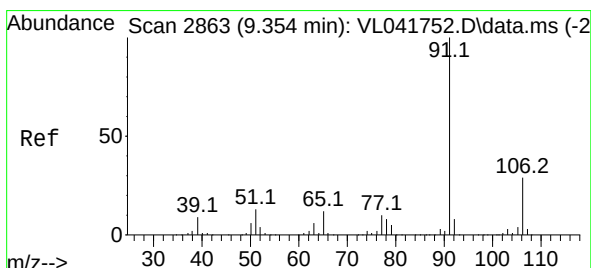
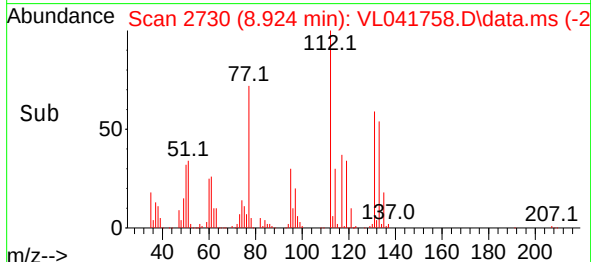
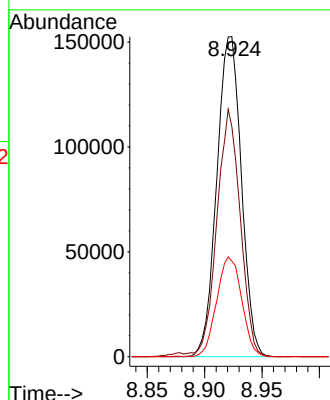
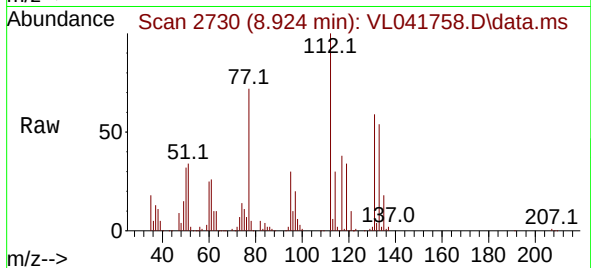
VSTDIC015

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

APPROVED

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



#58

Ethyl Benzene

Concen: 14.742 ppbv

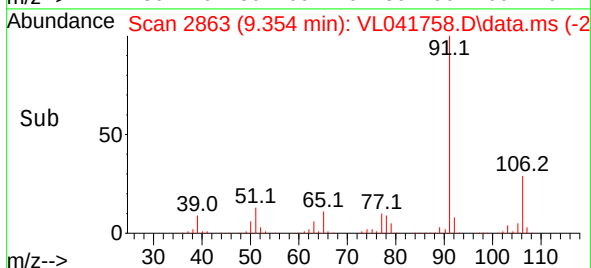
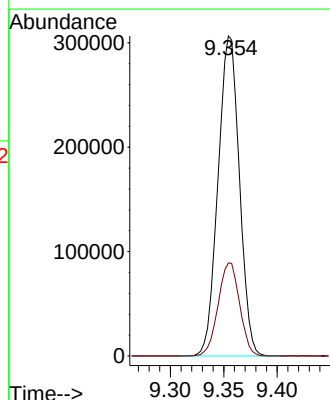
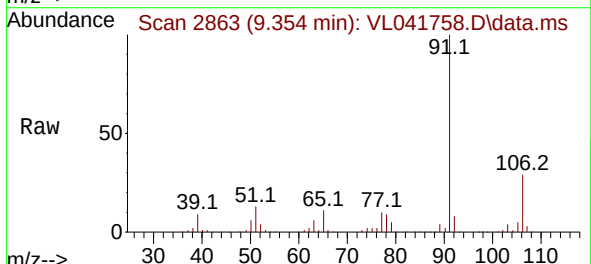
RT: 9.354 min Scan# 2863

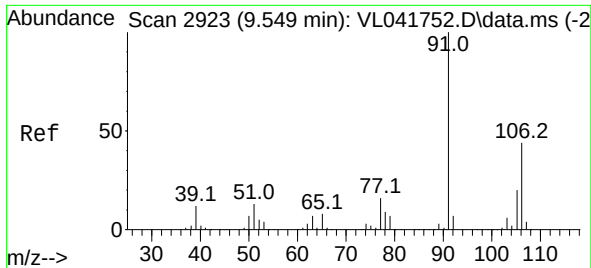
Delta R.T. -0.000 min

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

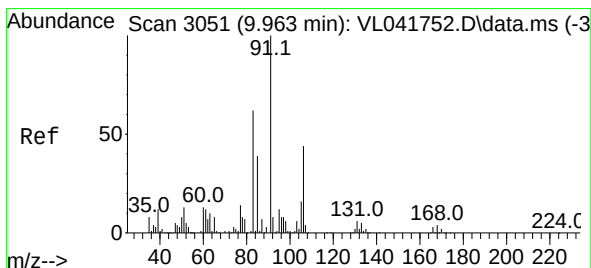
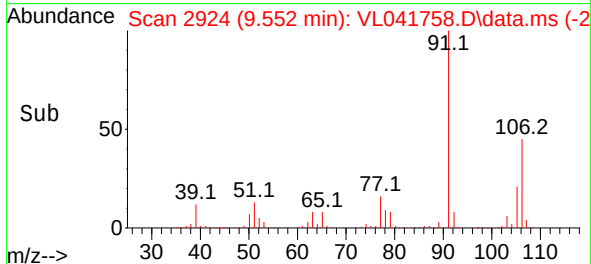
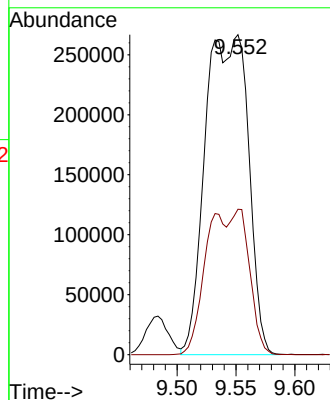
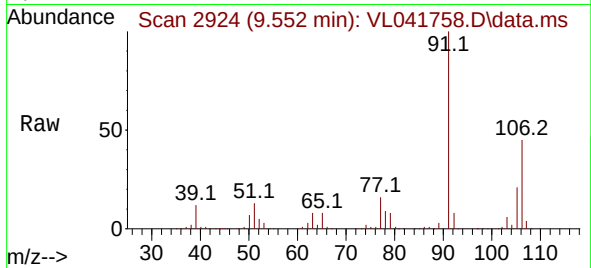
106 44.8 0.0 0.0

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

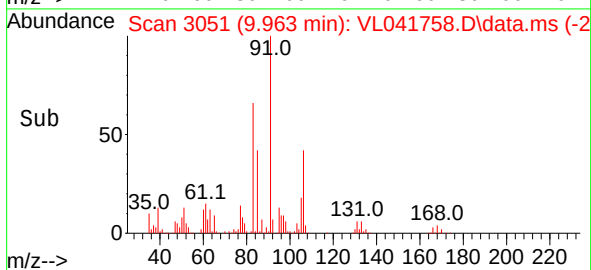
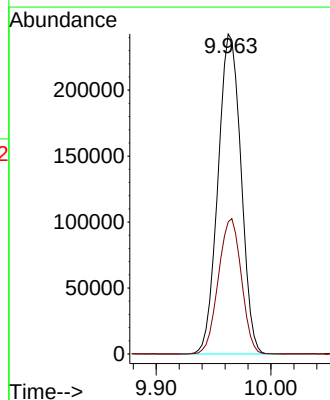
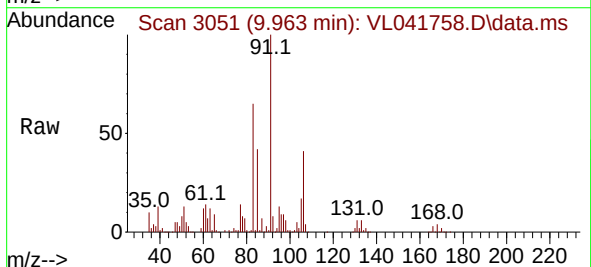
Acq: 16 Dec 2024 16:41

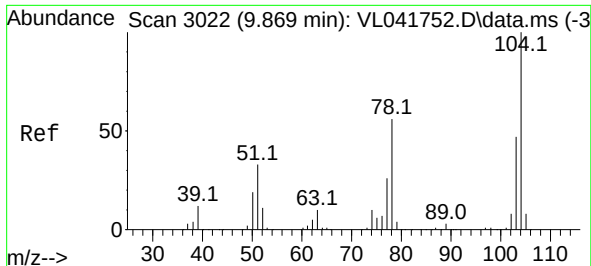
Tgt Ion: 91 Resp: 337891

Ion Ratio Lower Upper

91 100

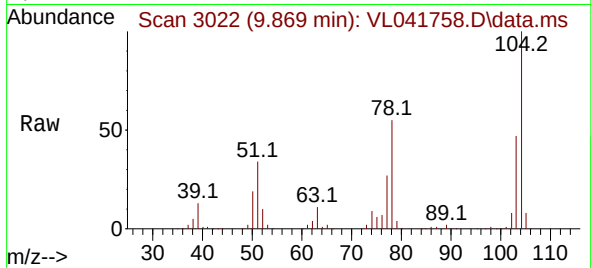
106 42.2 21.1 63.4





#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

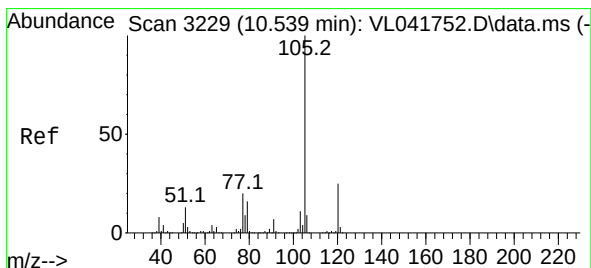
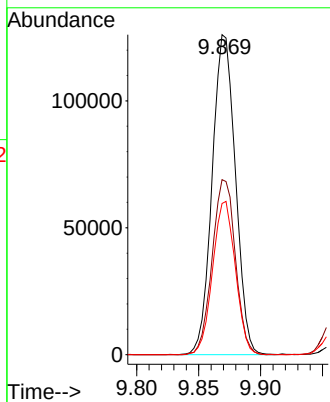
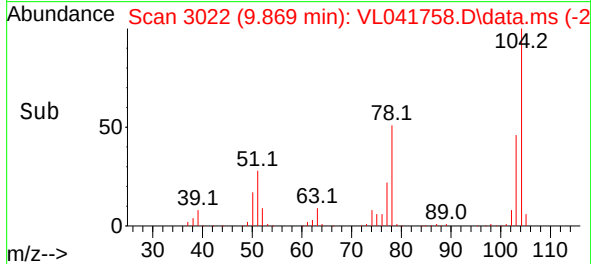
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

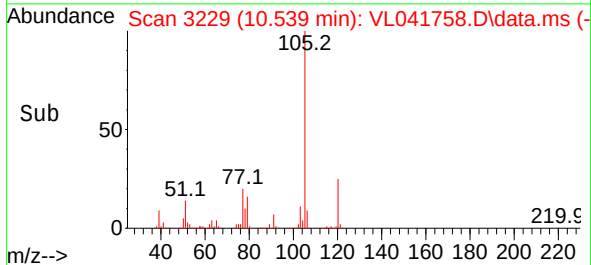
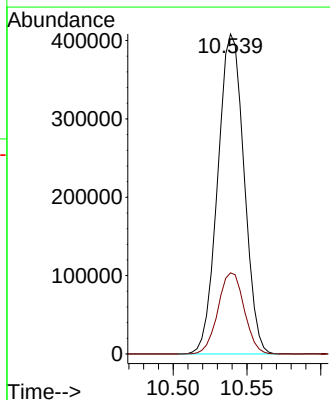
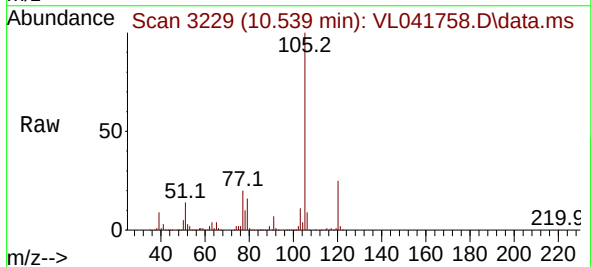
Manual Integrations
APPROVED

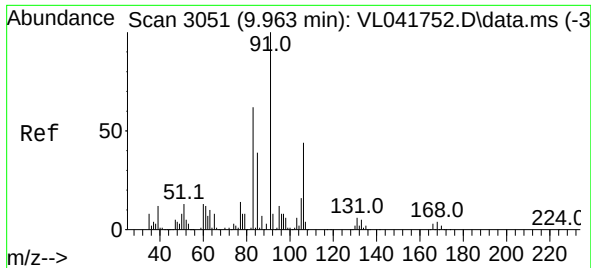
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





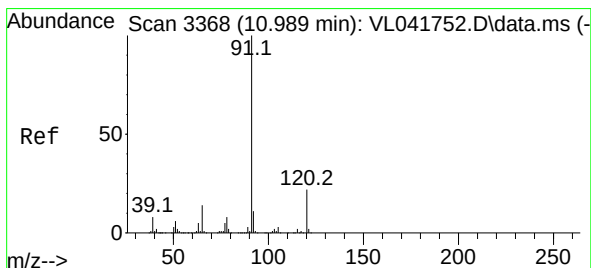
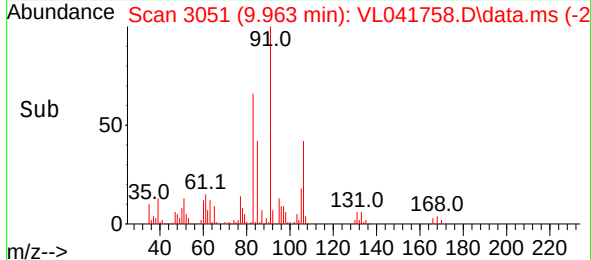
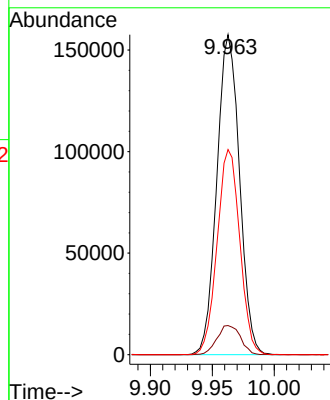
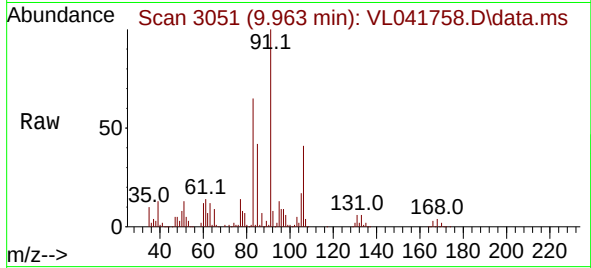
#63
1,1,2,2-Tetrachloroethane
Concen: 13.790 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

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

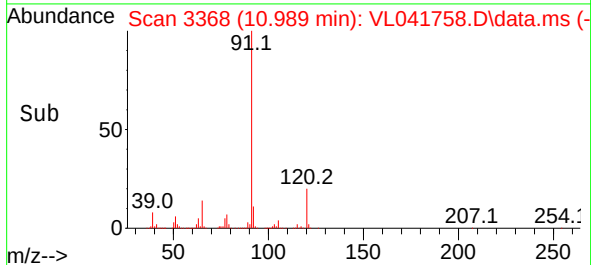
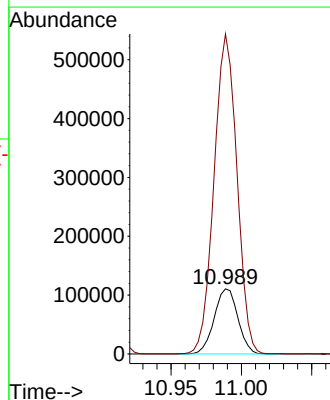
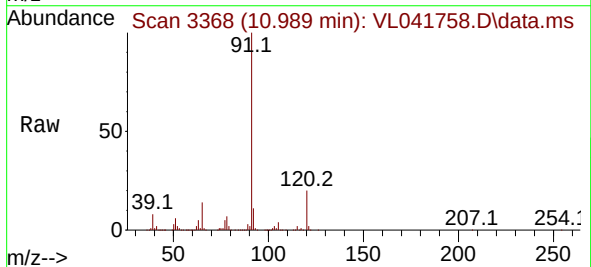
Manual Integrations
APPROVED

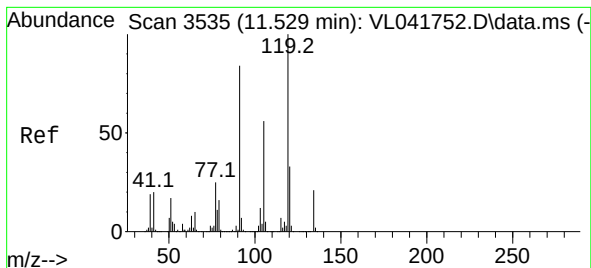
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





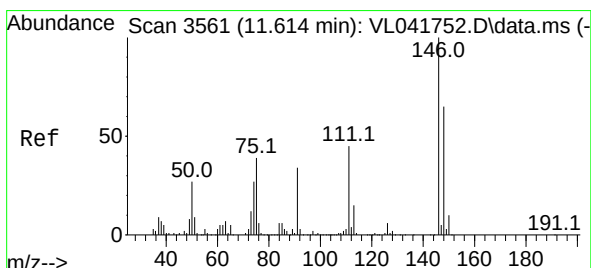
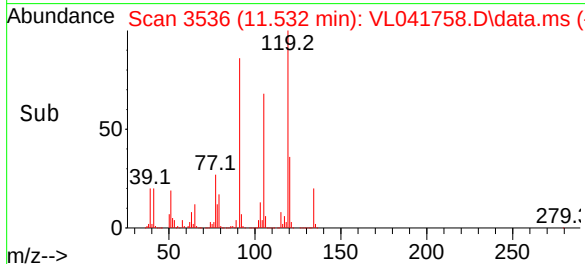
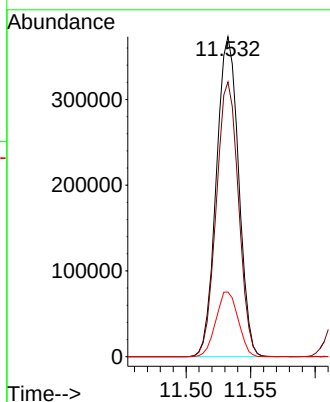
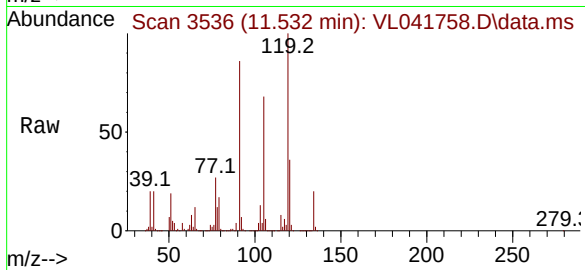
#65
tert-Butylbenzene
Concen: 14.148 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
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

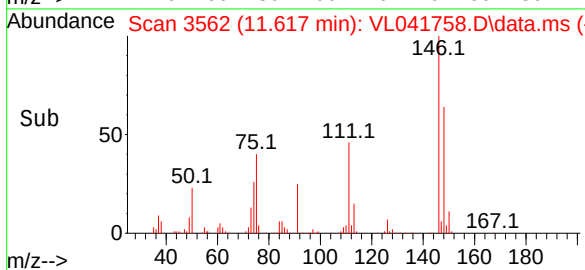
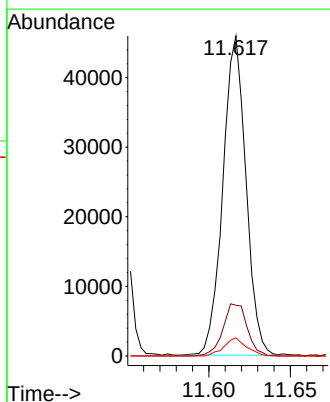
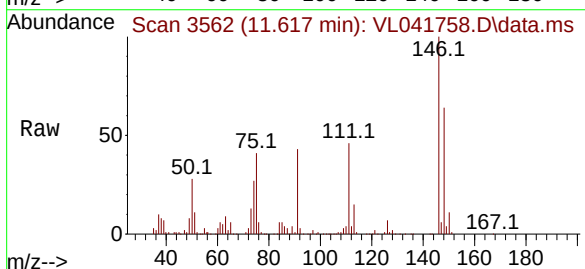
Manual Integrations
APPROVED

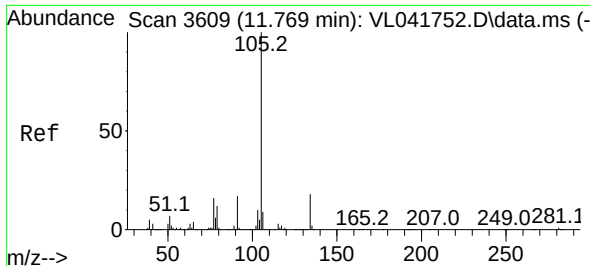
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

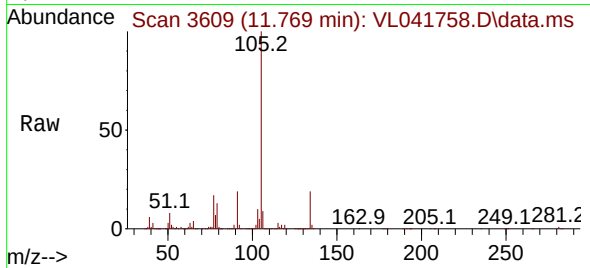
Tgt Ion: 91 Resp: 45189
Ion Ratio Lower Upper
91 100
126 17.1 13.9 20.9
128 5.5 4.4 6.6





#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

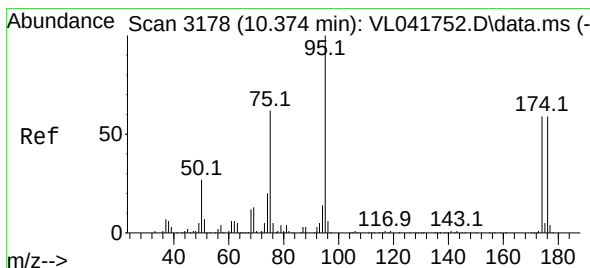
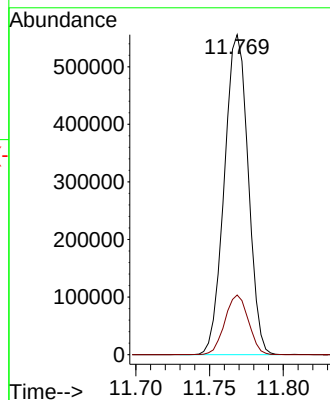
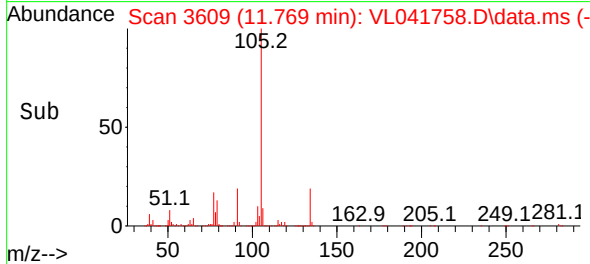
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 62456
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.5 21.7

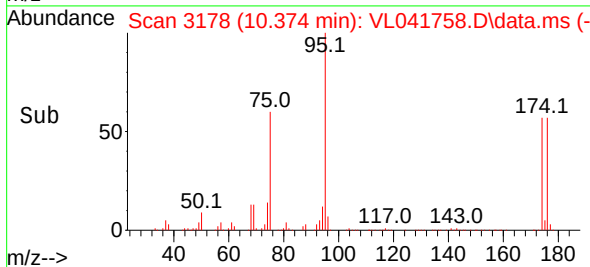
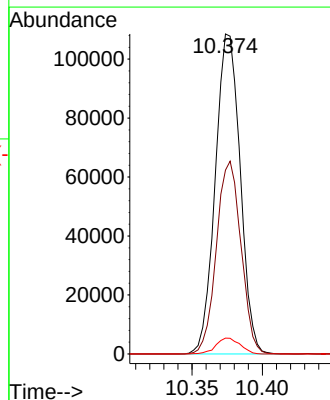
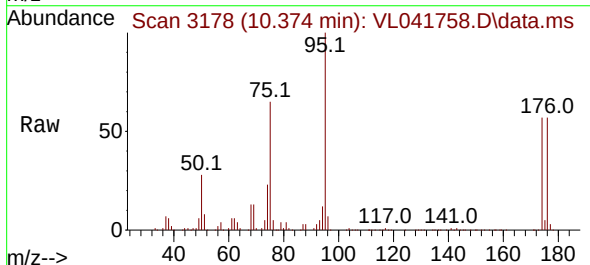
Manual Integrations
 APPROVED

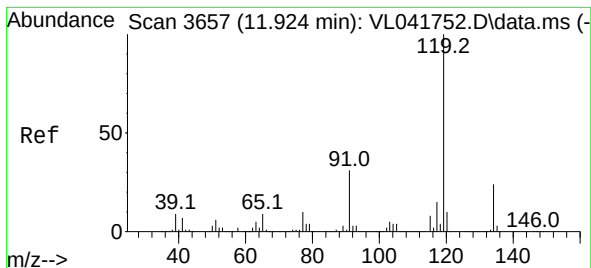
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

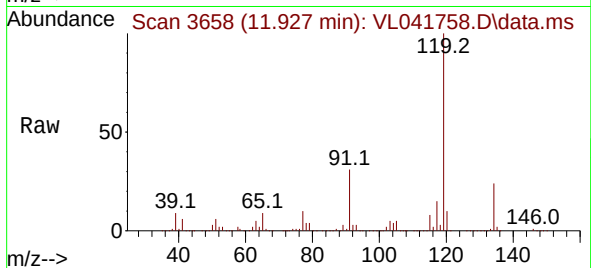
Tgt Ion: 95 Resp: 133687
 Ion Ratio Lower Upper
 95 100
 174 59.4 47.6 71.4
 175 4.8 3.7 5.5





#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

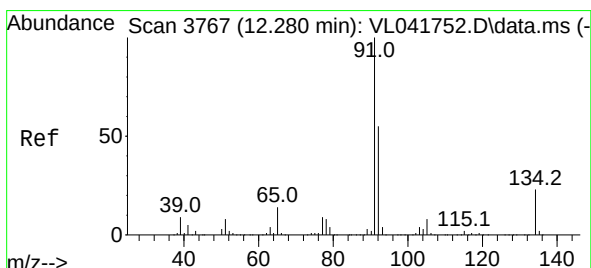
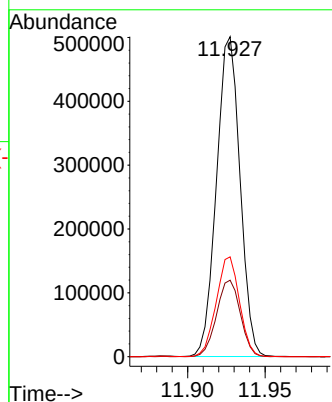
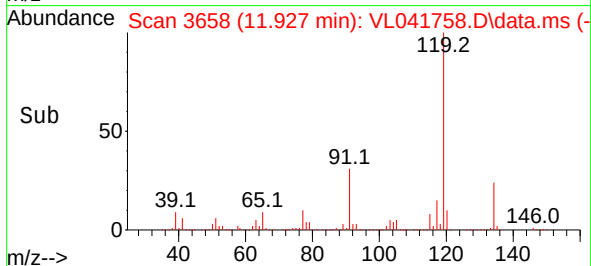
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



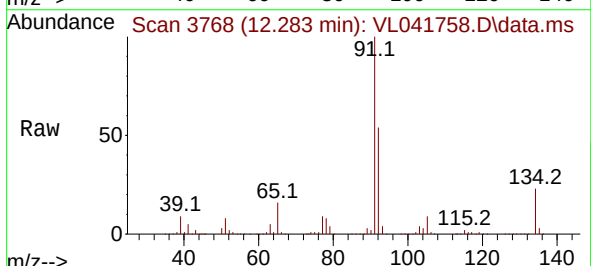
Tgt Ion:119 Resp: 52826
Ion Ratio Lower Upper
119 100
134 24.3 19.6 29.4
91 31.0 24.4 36.6

Manual Integrations
APPROVED

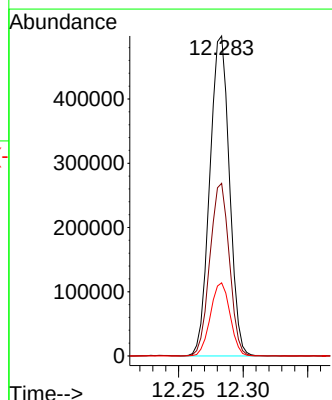
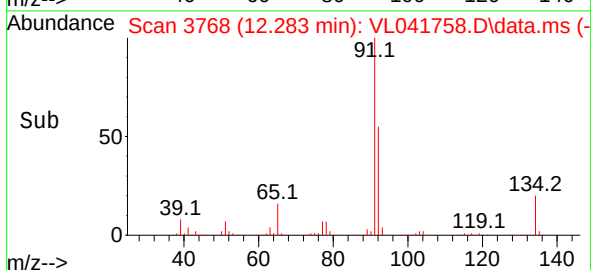
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

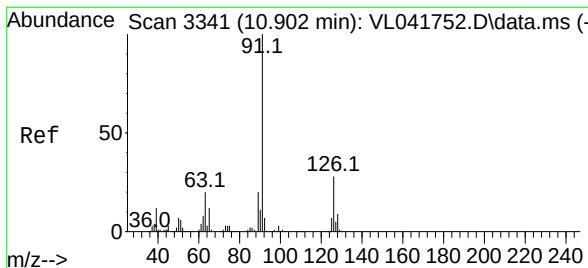


#70
n-Butylbenzene
Concen: 15.101 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



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





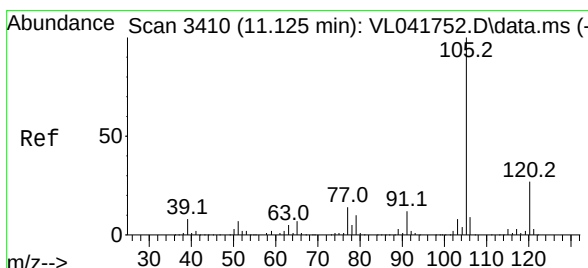
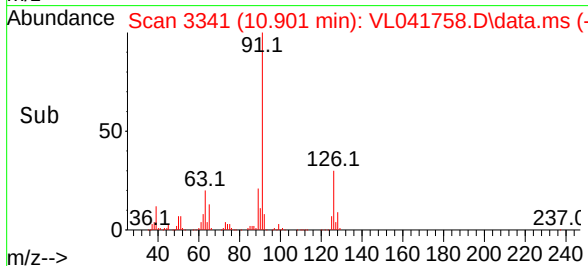
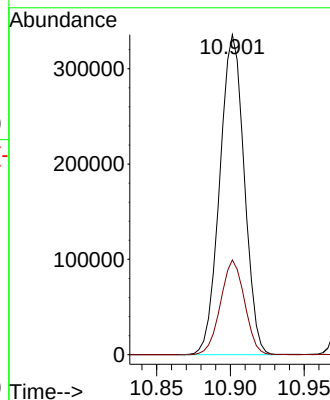
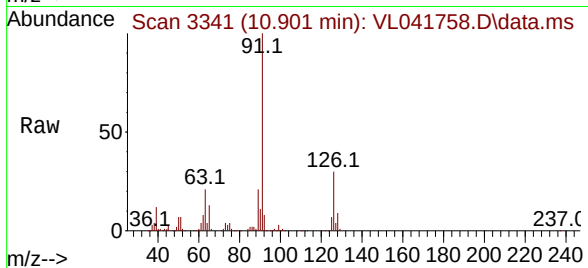
#71
2-Chlorotoluene
Concen: 14.498 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 387300
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

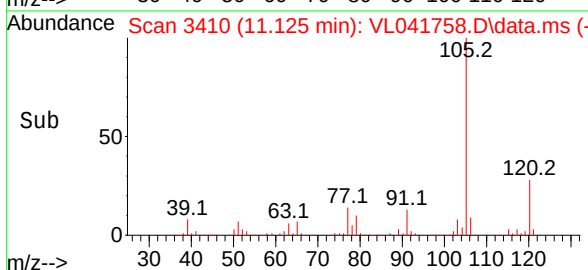
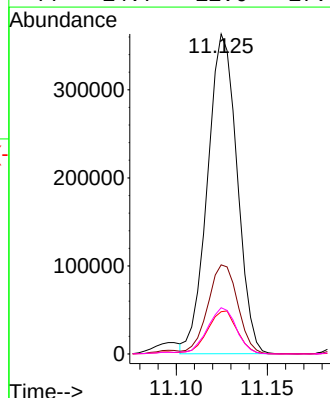
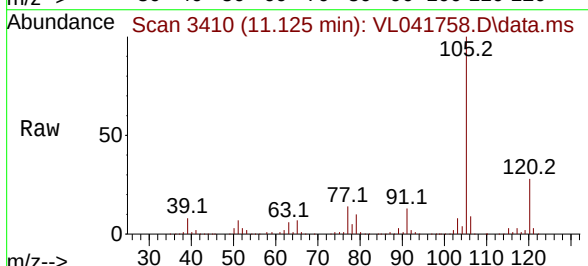
Manual Integrations
APPROVED

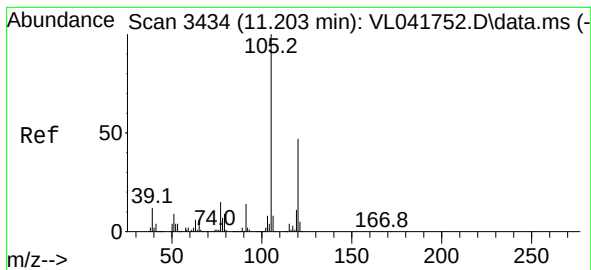
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

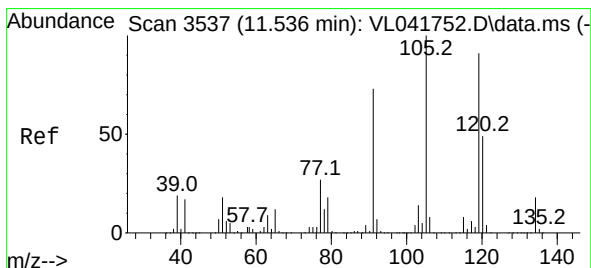
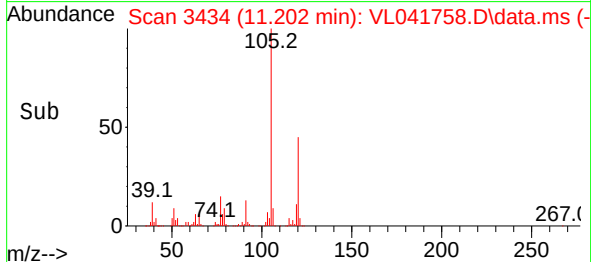
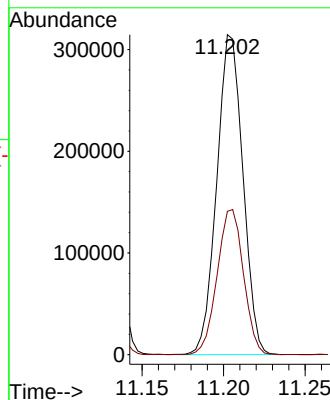
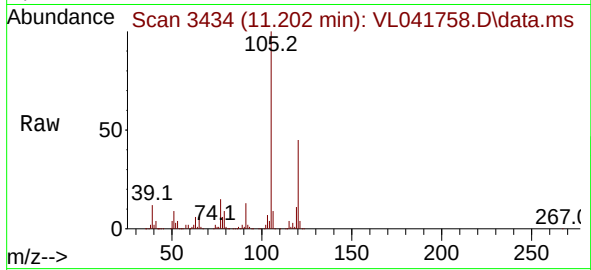
120 44.8 37.4 56.2

Manual Integrations

APPROVED

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

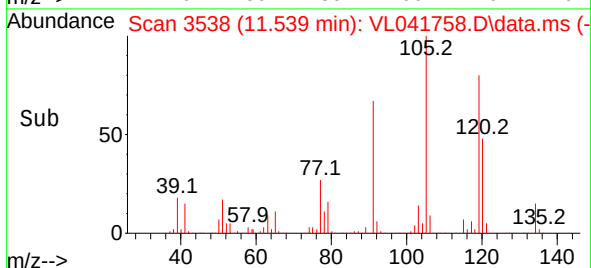
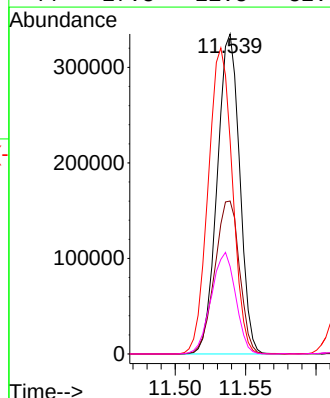
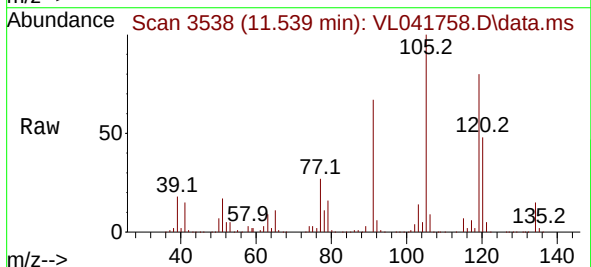
Ion Ratio Lower Upper

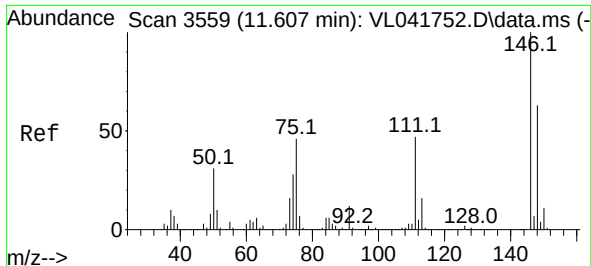
105 100

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

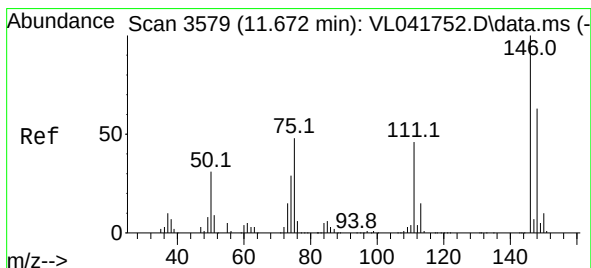
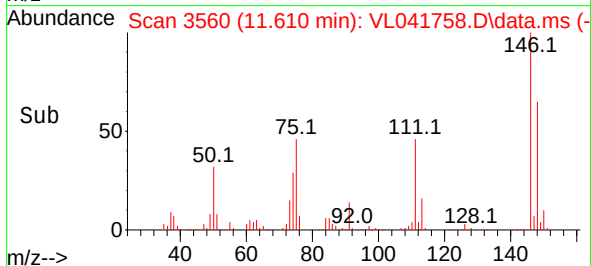
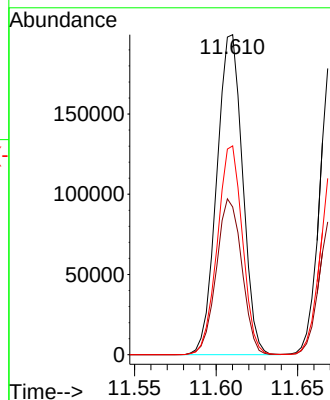
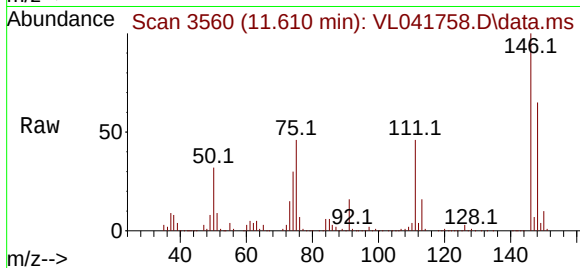
148 63.5 31.6 95.0

Manual Integrations

APPROVED

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

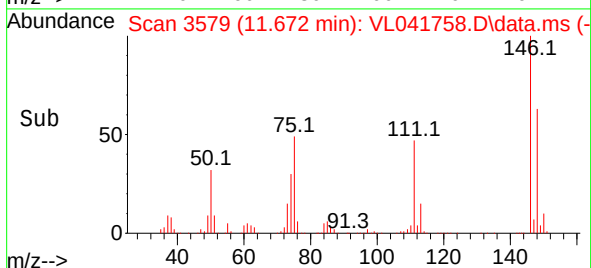
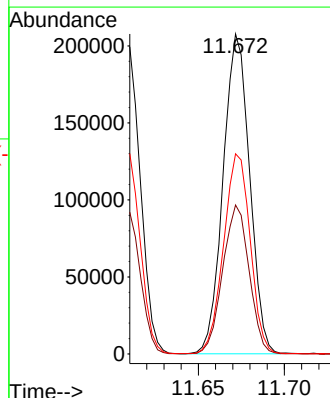
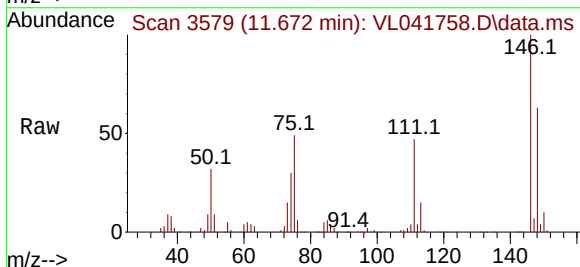
Tgt Ion:146 Resp: 222290

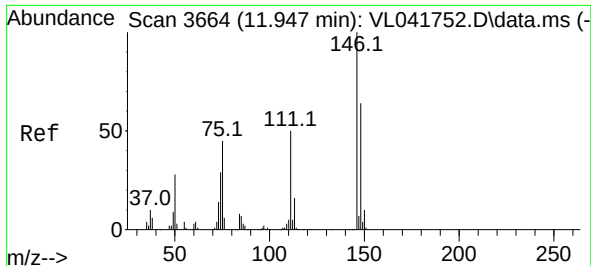
Ion Ratio Lower Upper

146 100

111 46.6 22.7 68.1

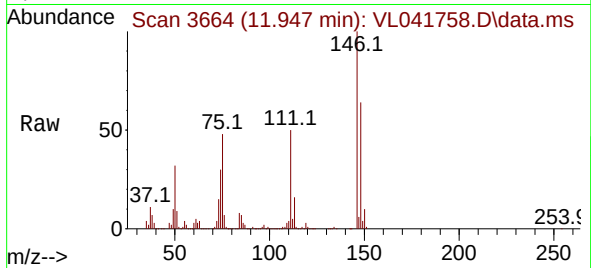
148 63.2 31.4 94.0





#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

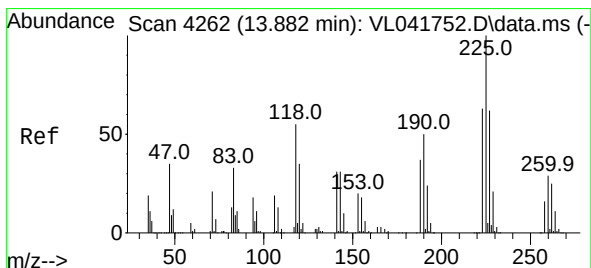
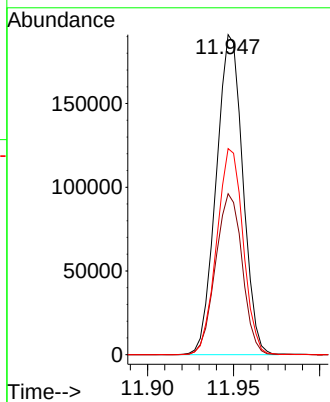
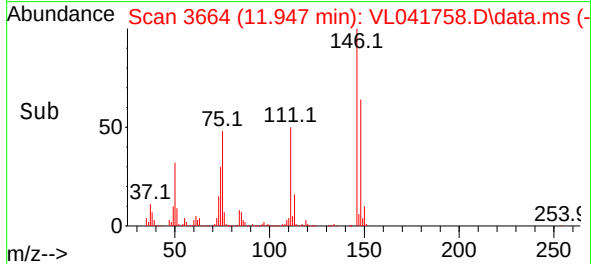
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



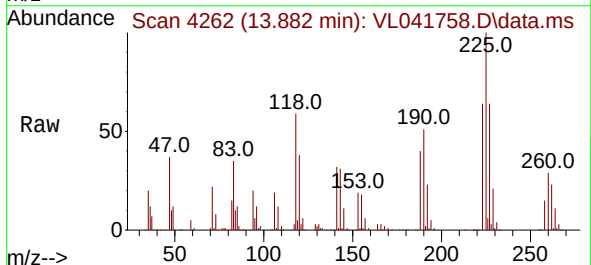
Tgt Ion:146 Resp: 20573
Ion Ratio Lower Upper
146 100
111 50.4 24.8 74.3
148 63.9 31.8 95.4

Manual Integrations
APPROVED

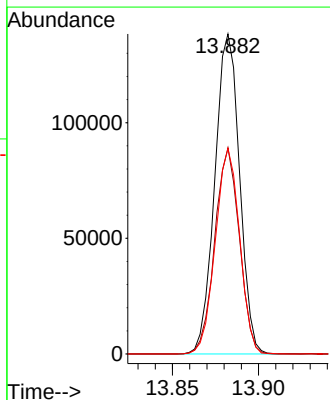
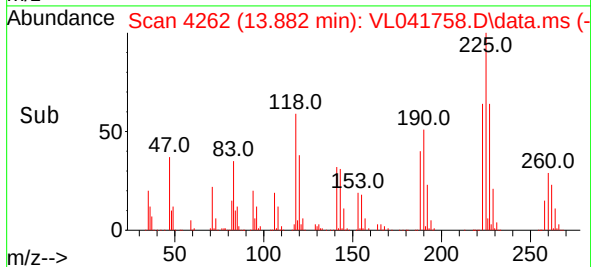
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

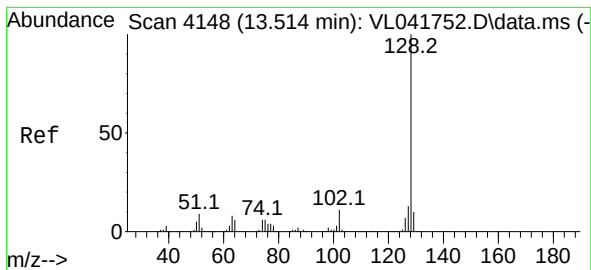


#78
Hexachloro-1,3-Butadiene
Concen: 12.412 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41



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 :

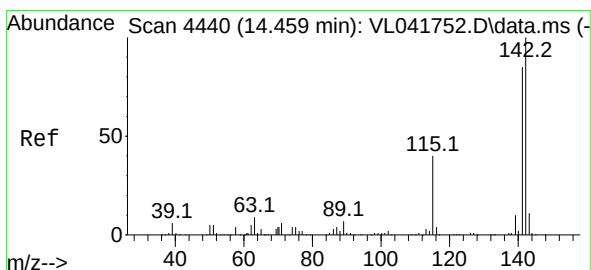
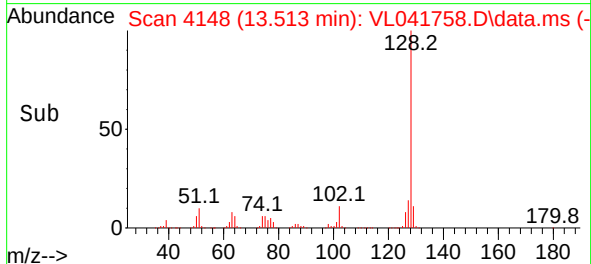
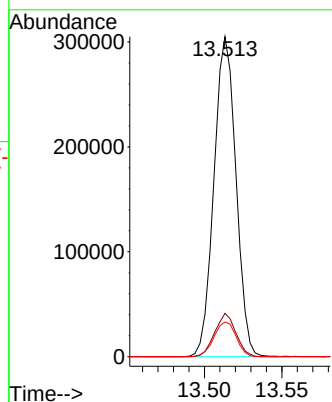
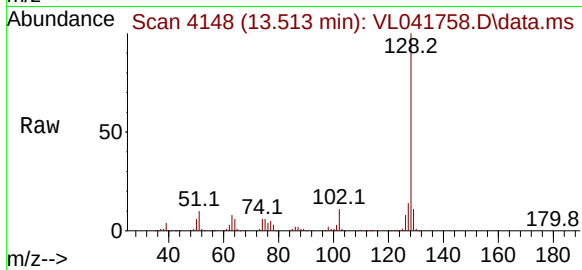
VSTDIC015

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

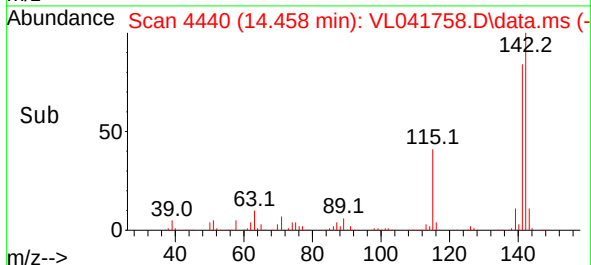
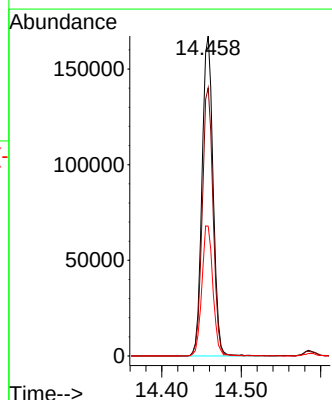
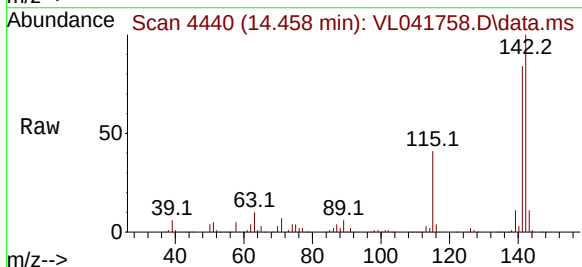
RT: 14.458 min Scan# 4440

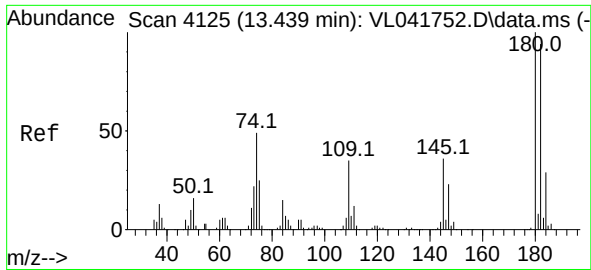
Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

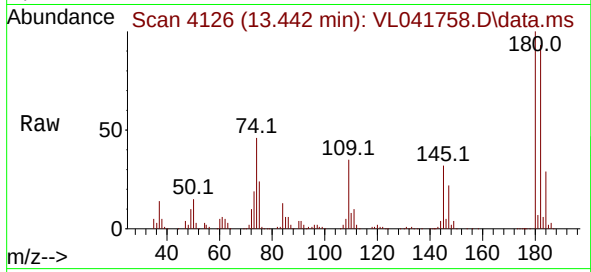
Tgt Ion:	142	Resp:	161927
Ion Ratio	Lower	Upper	
142	100		
141	82.6	68.4	102.6
115	40.9	32.5	48.7





#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

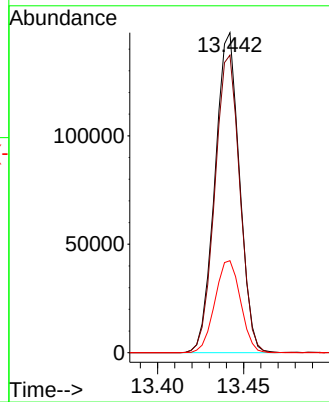
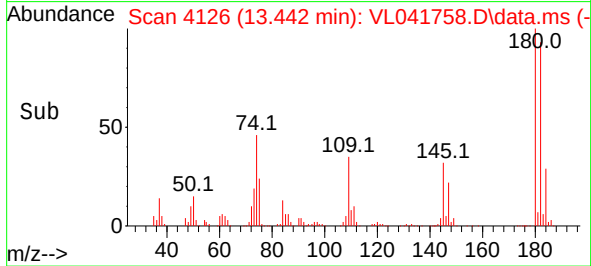
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

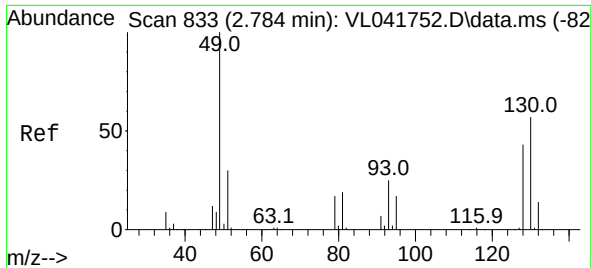
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

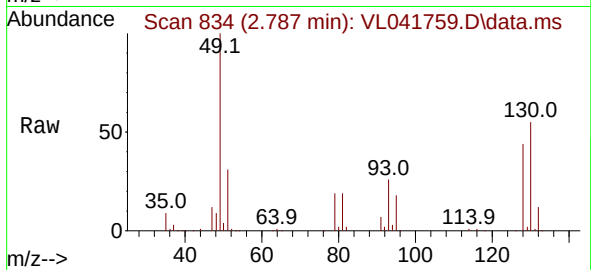
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	66169m	9.711	ppbv	
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv	100
49) Bromoform	9.487	173	88971	11.682	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	190637	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



#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

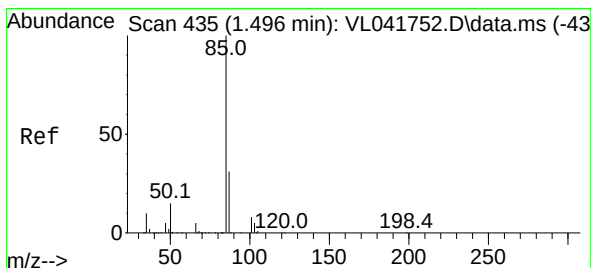
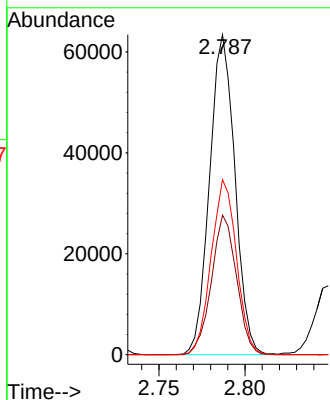
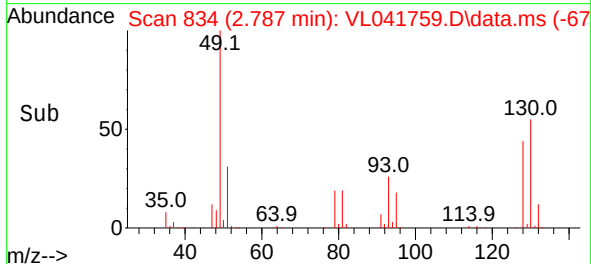
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



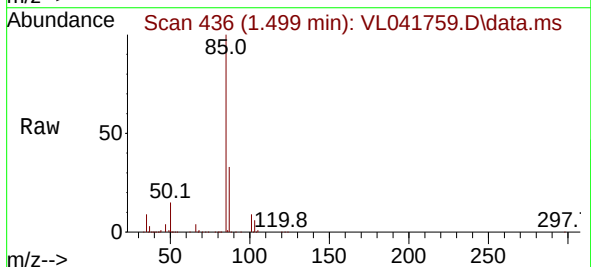
Tgt Ion: 49 Resp: 64970
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.6
130 54.5 28.3 85.0

Manual Integrations
APPROVED

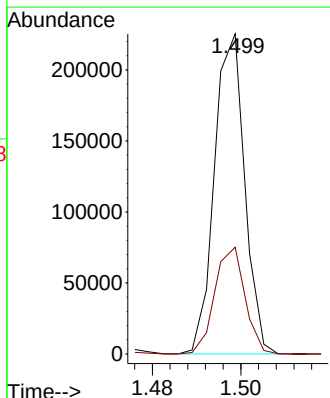
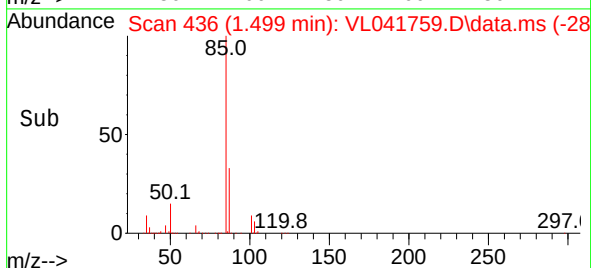
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

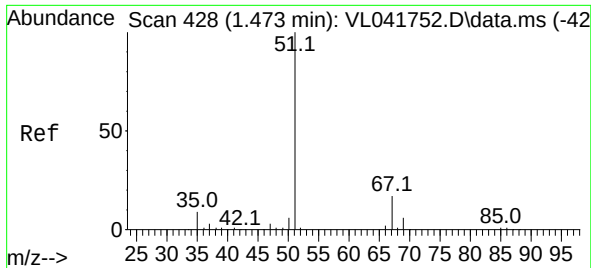


#2
Dichlorodifluoromethane
Concen: 9.236 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



Tgt Ion: 85 Resp: 106780
Ion Ratio Lower Upper
85 100
87 33.4 24.5 36.7





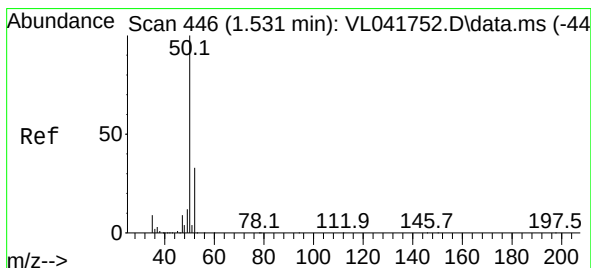
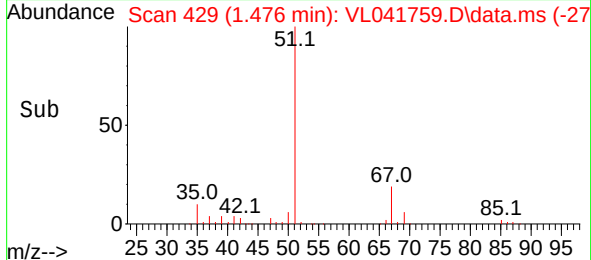
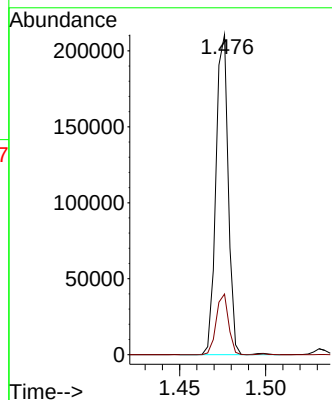
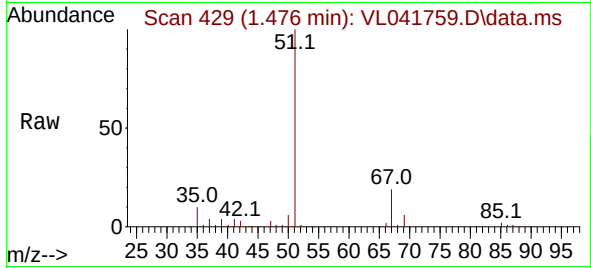
#3
Chlorodifluoromethane
Concen: 9.922 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 51 Resp: 10514
Ion Ratio Lower Upper
51 100
67 19.1 15.0 22.4

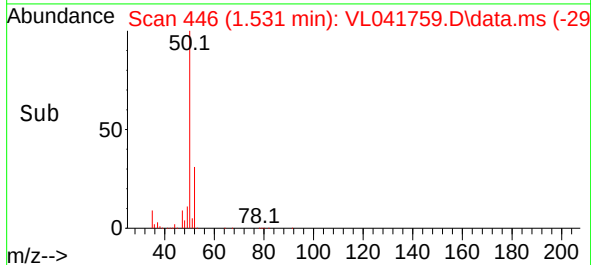
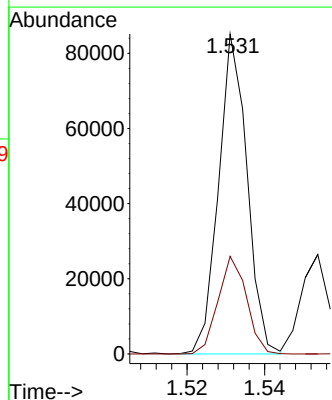
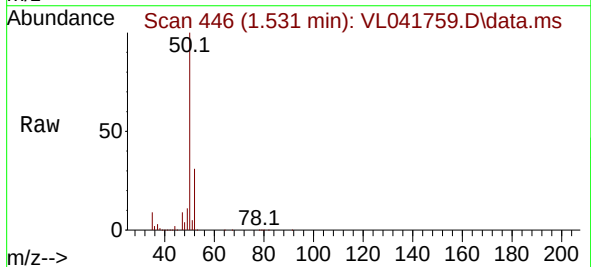
Manual Integrations
APPROVED

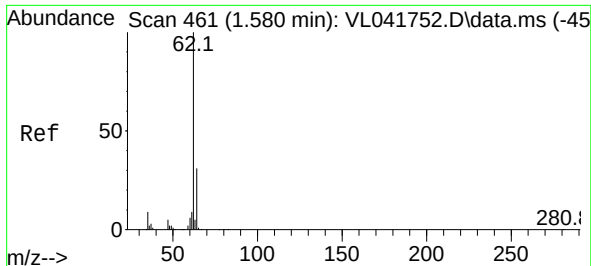
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

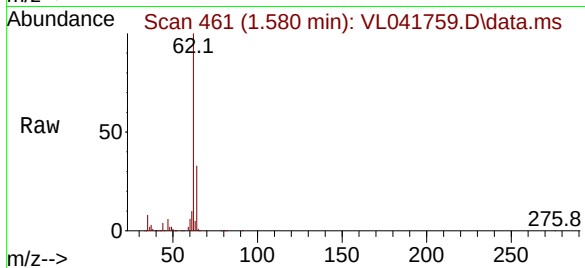
Tgt Ion: 50 Resp: 43409
Ion Ratio Lower Upper
50 100
52 30.6 26.2 39.2





#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

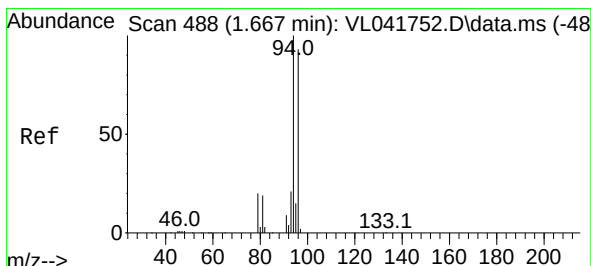
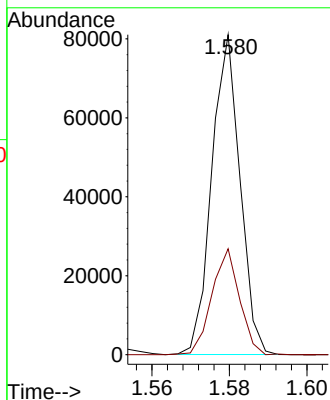
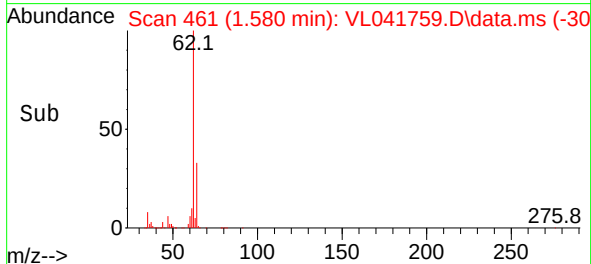
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624



Tgt Ion: 62 Resp: 40950
 Ion Ratio Lower Upper
 62 100
 64 33.0 25.1 37.7

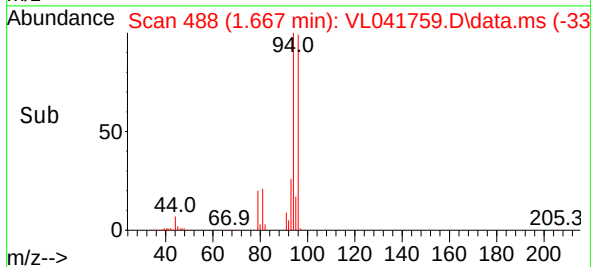
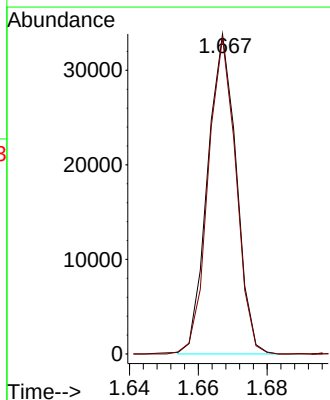
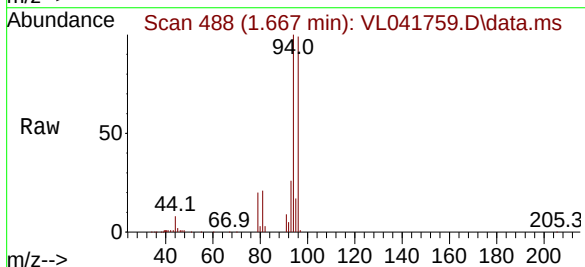
Manual Integrations
 APPROVED

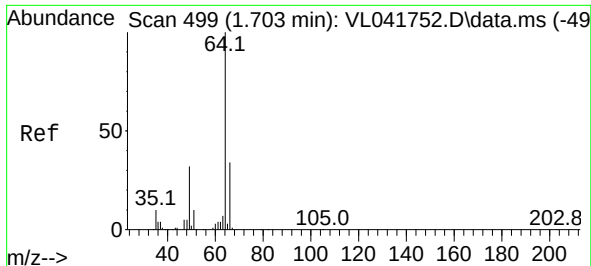
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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





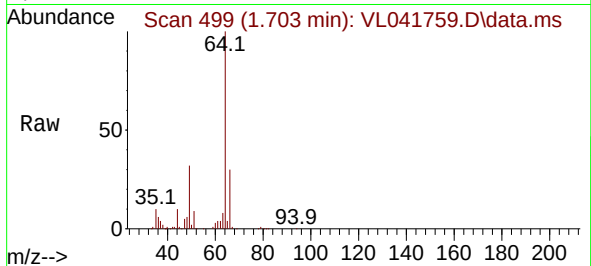
#7
Chloroethane
Concen: 9.803 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

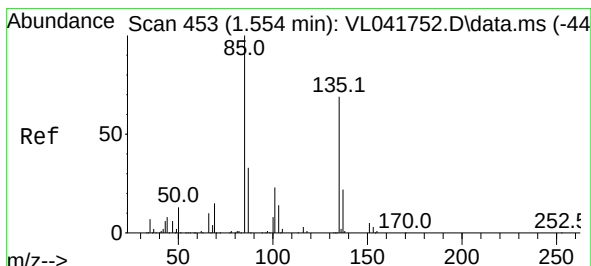
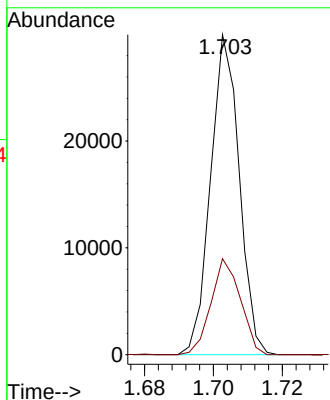
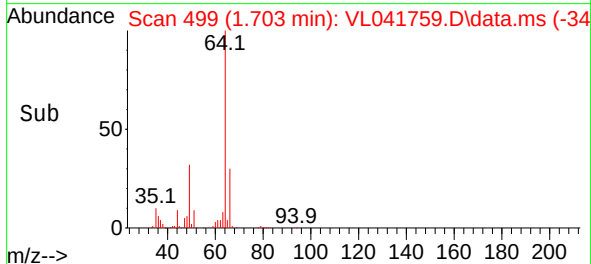


Tgt Ion: 64 Resp: 17350
Ion Ratio Lower Upper
64 100
66 30.0 27.5 41.3

Manual Integrations

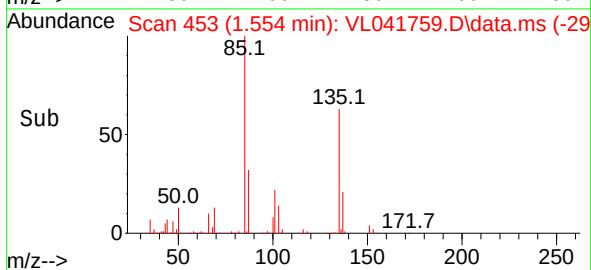
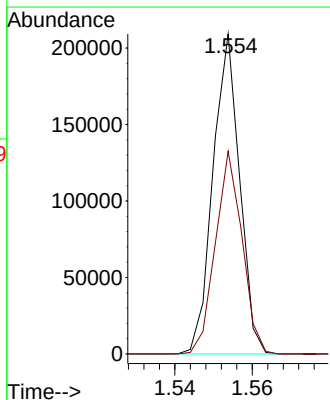
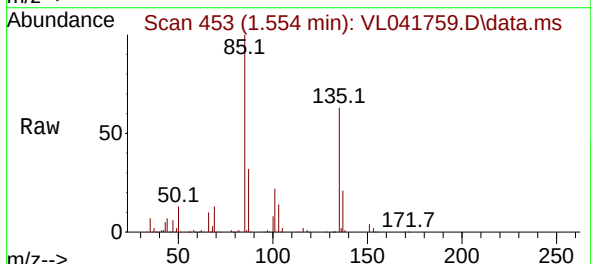
APPROVED

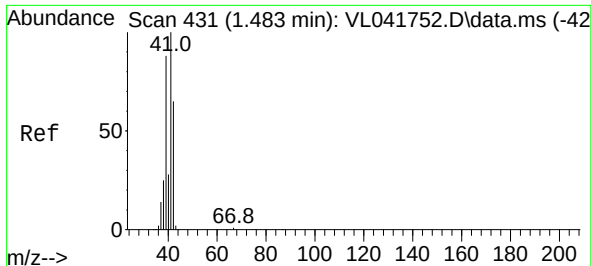
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

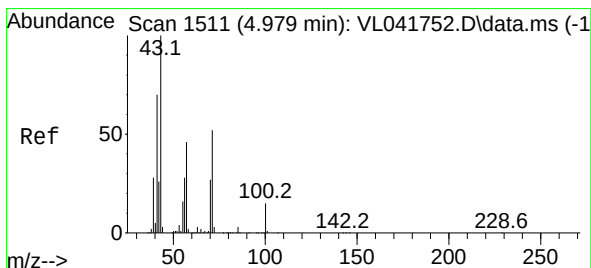
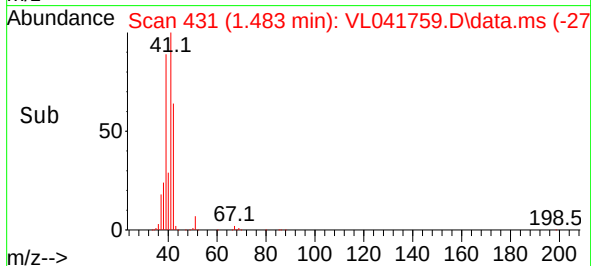
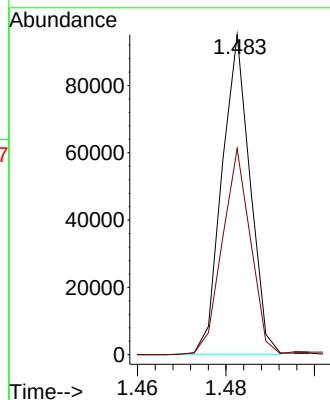
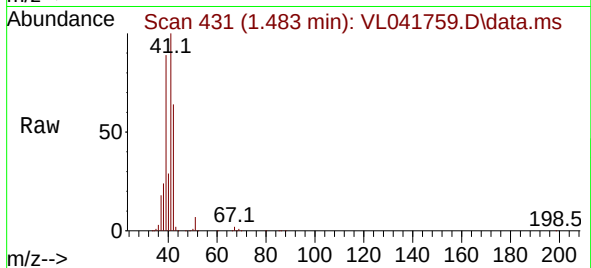
42 66.7 52.4 78.6

Manual Integrations

APPROVED

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

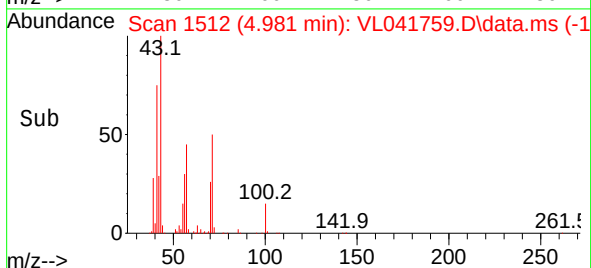
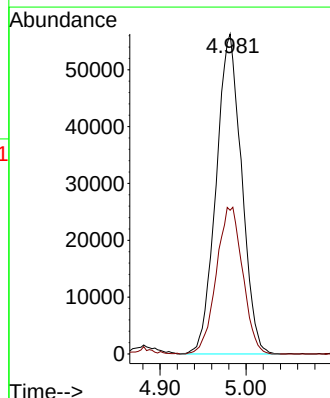
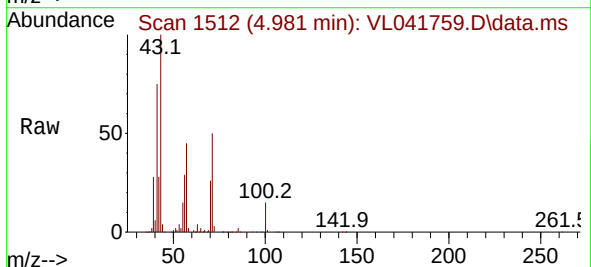
Acq: 16 Dec 2024 18:59

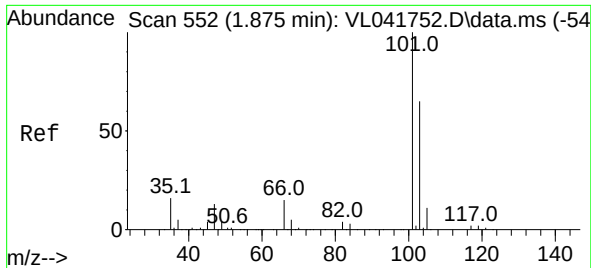
Tgt Ion: 43 Resp: 115804

Ion Ratio Lower Upper

43 100

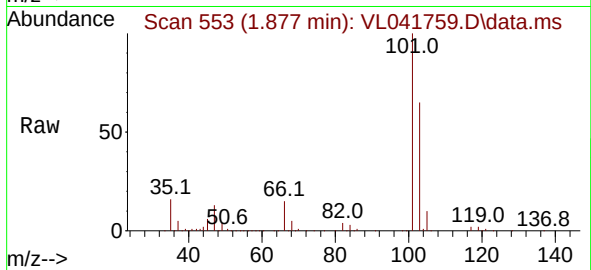
57 47.4 38.5 57.7





#11
Trichlorofluoromethane
Concen: 9.428 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

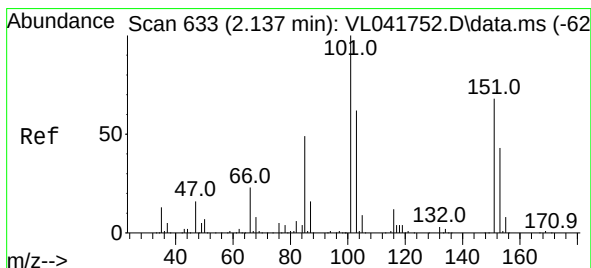
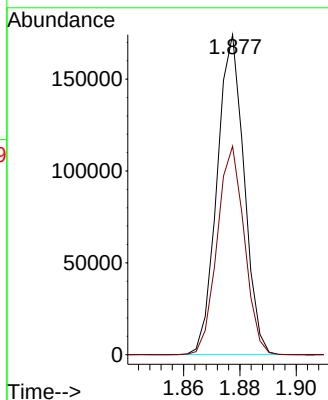
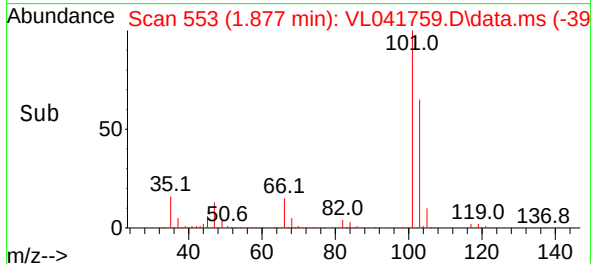
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



Tgt Ion:101 Resp: 115785
Ion Ratio Lower Upper
101 100
103 65.2 51.8 77.8

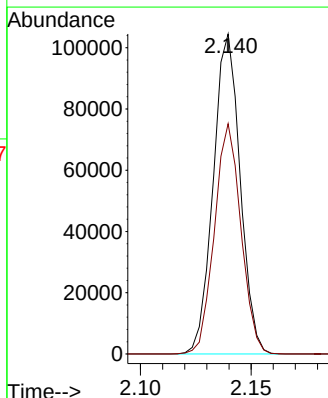
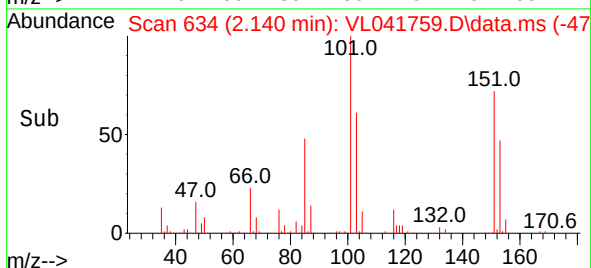
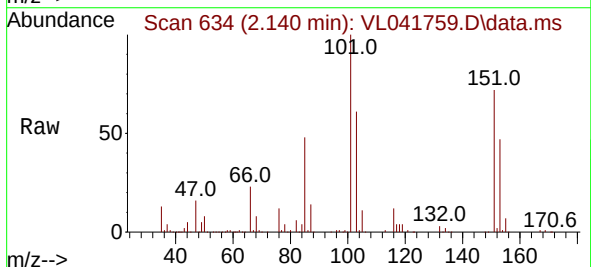
Manual Integrations
APPROVED

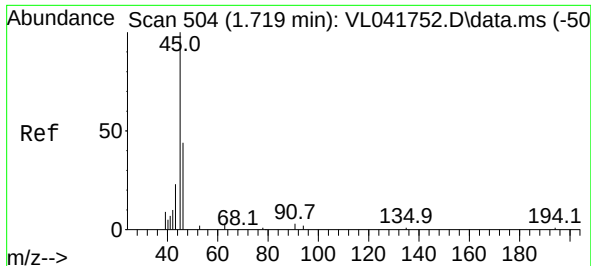
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

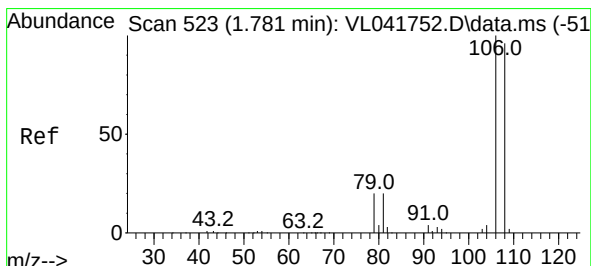
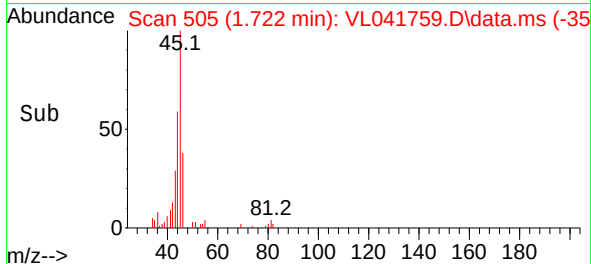
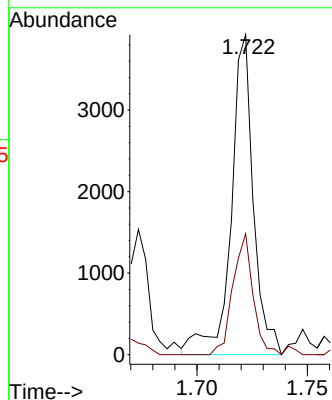
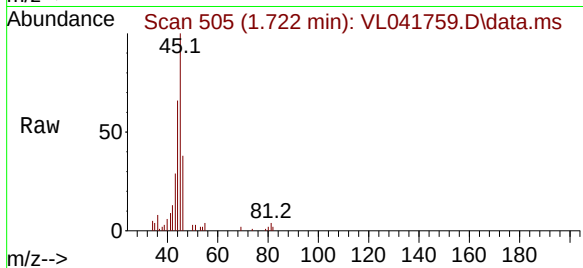
46 35.2 16.4 65.8

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

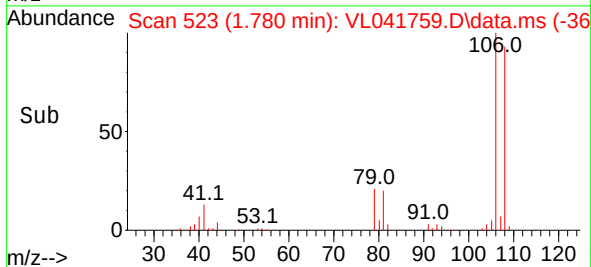
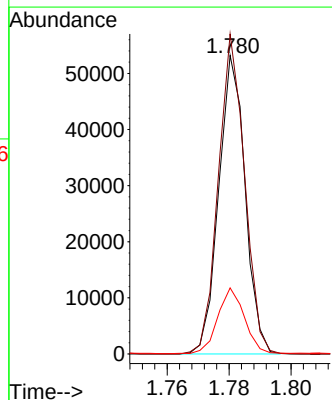
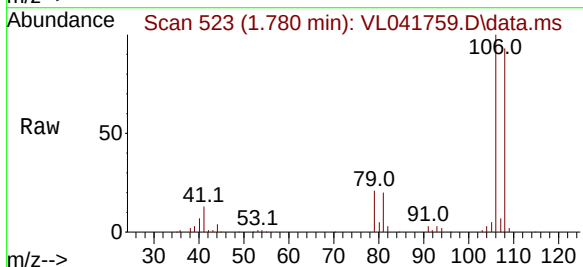
Tgt Ion:108 Resp: 31492

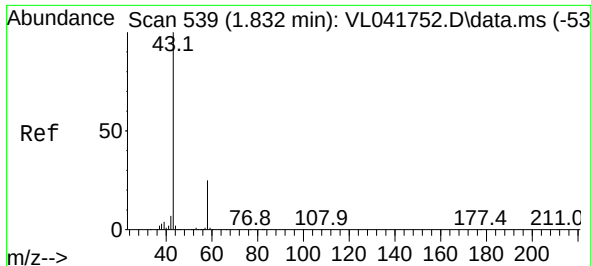
Ion Ratio Lower Upper

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

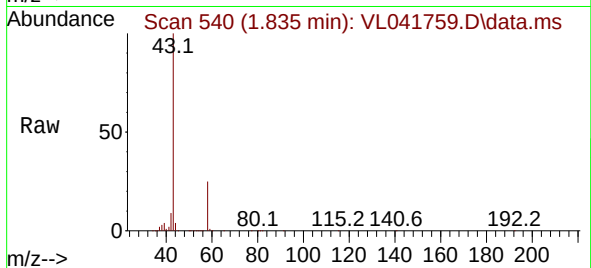
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624



Tgt Ion: 43 Resp: 94879

Ion Ratio Lower Upper

43 100

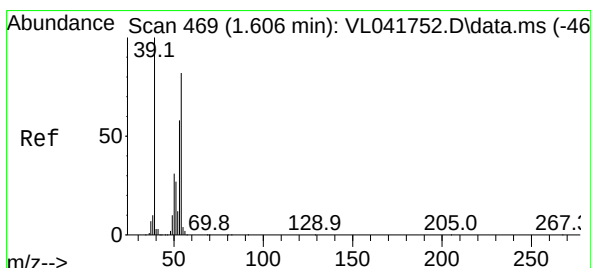
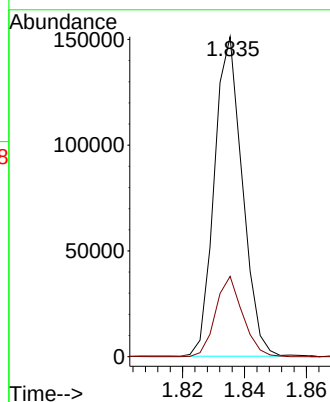
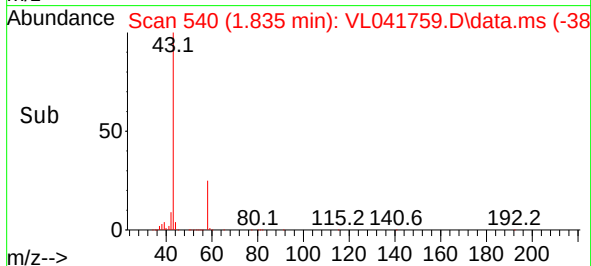
58 24.3 19.7 29.5

Manual Integrations

APPROVED

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

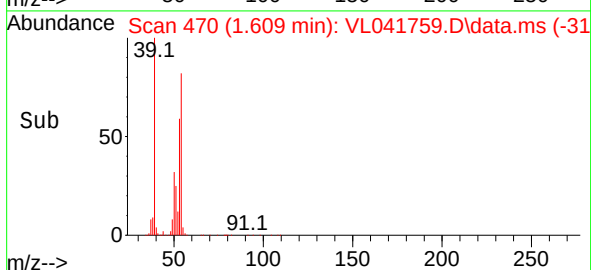
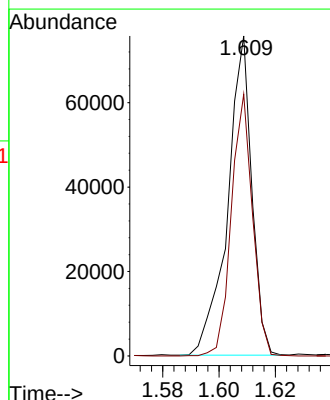
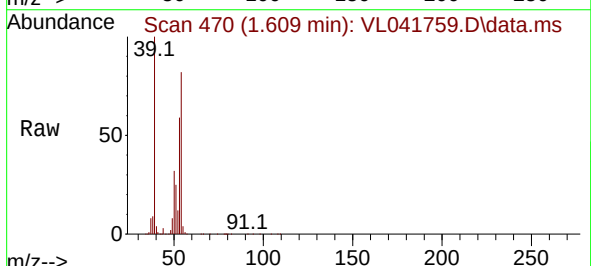
Acq: 16 Dec 2024 18:59

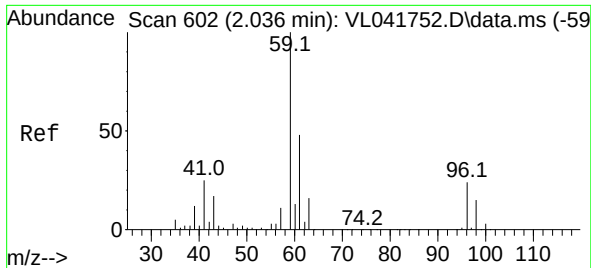
Tgt Ion: 39 Resp: 45119

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 :

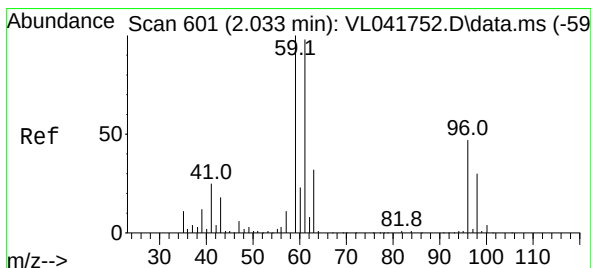
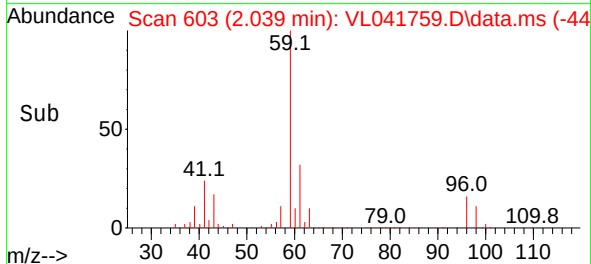
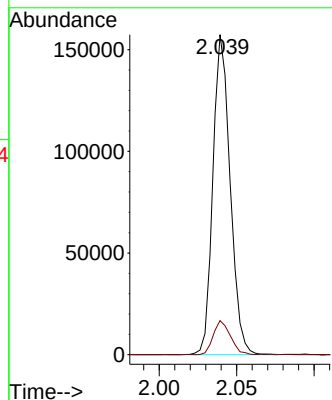
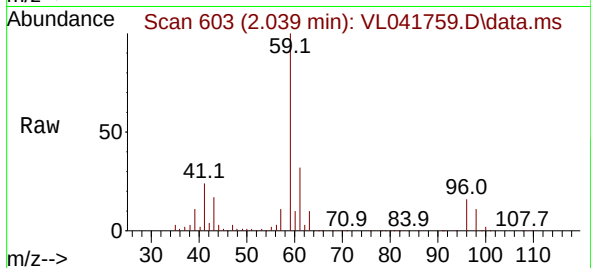
ICVVL121624

Tgt Ion: 59 Resp: 122034
Ion Ratio Lower Upper
59 100
57 10.6 8.6 13.0

Manual Integrations

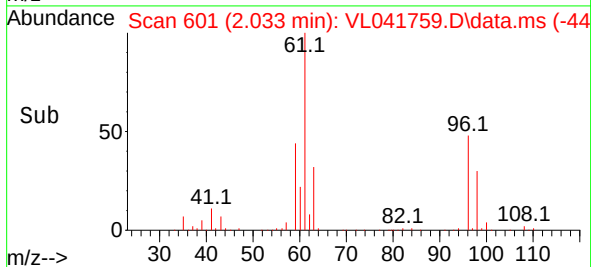
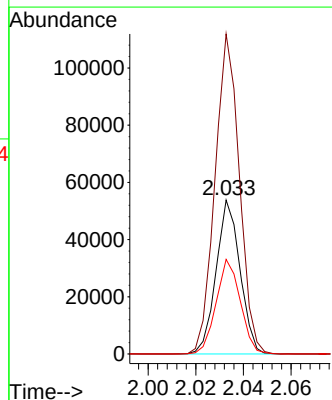
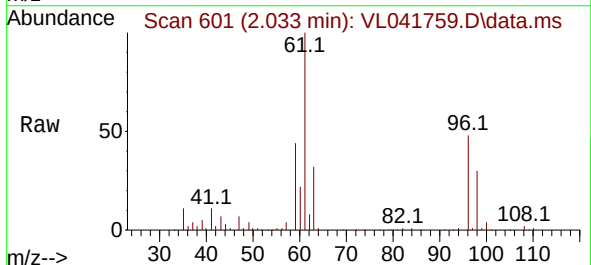
APPROVED

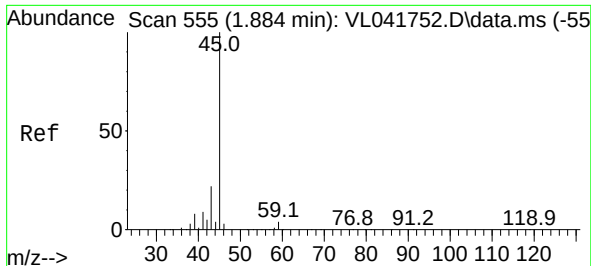
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

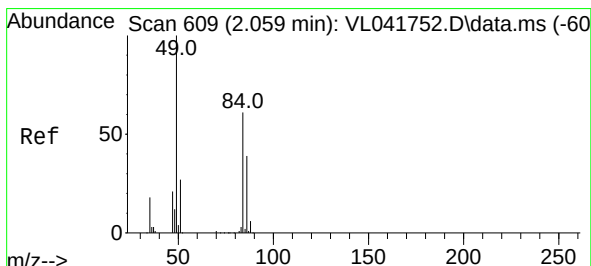
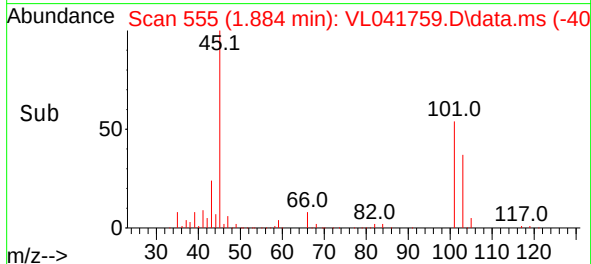
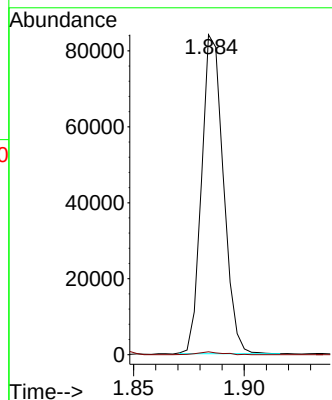
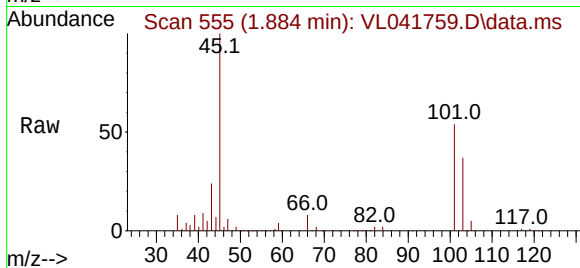
58 40.1 33.3 49.9

Manual Integrations

APPROVED

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

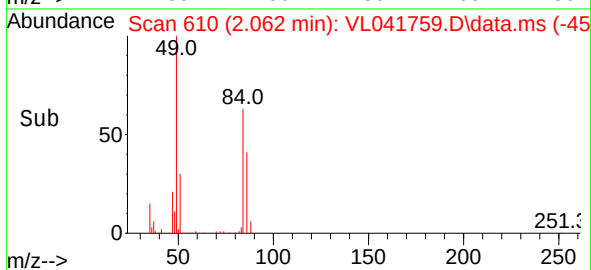
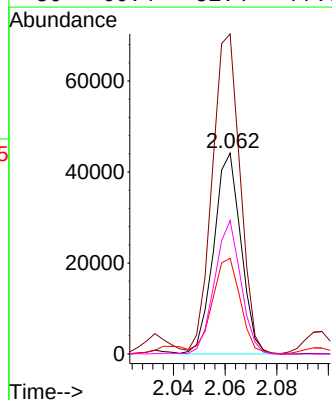
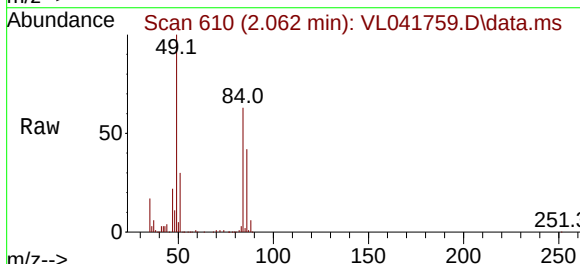
Ion Ratio Lower Upper

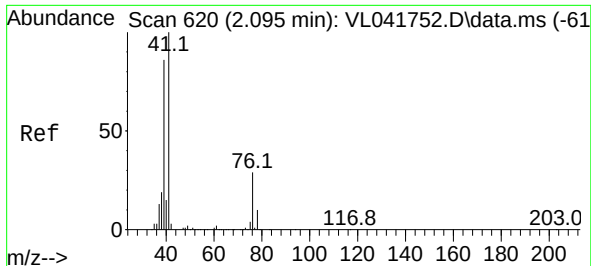
84 100

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 :

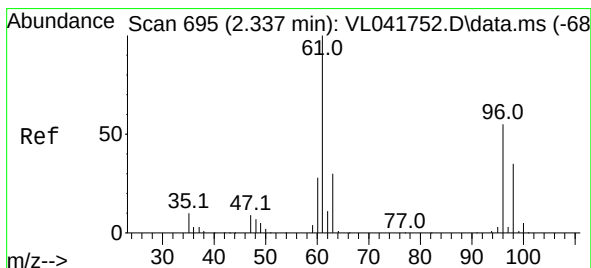
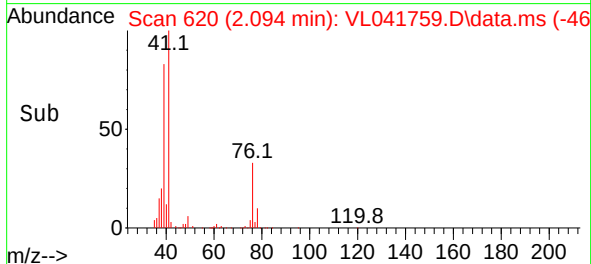
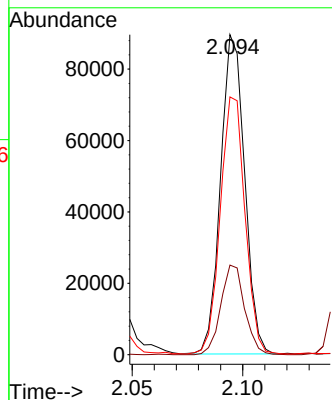
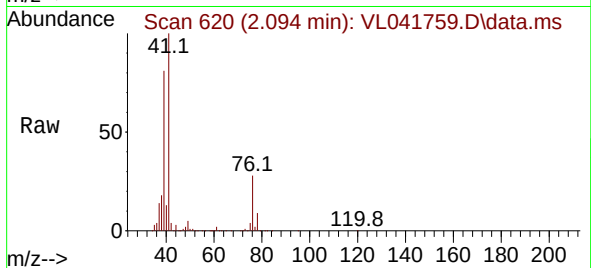
ICVVL121624

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

APPROVED

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



#22

trans-1,2-Dichloroethene

Concen: 9.515 ppbv

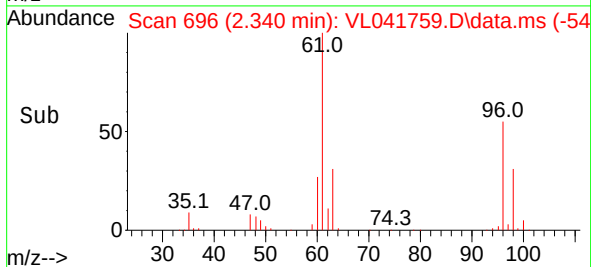
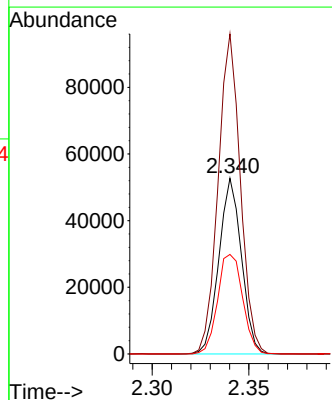
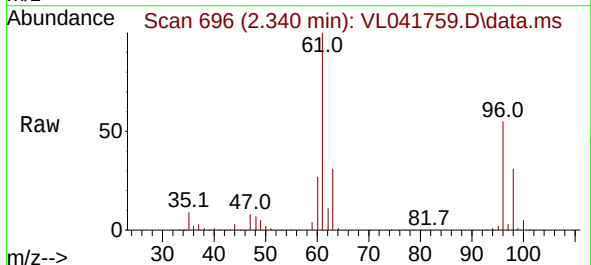
RT: 2.340 min Scan# 696

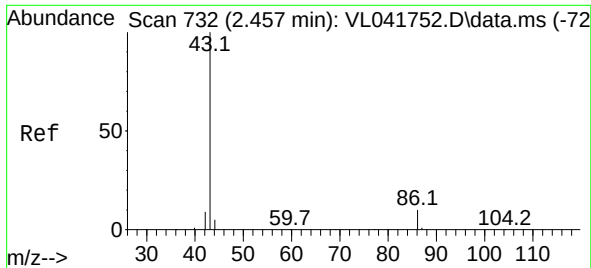
Delta R.T. 0.003 min

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

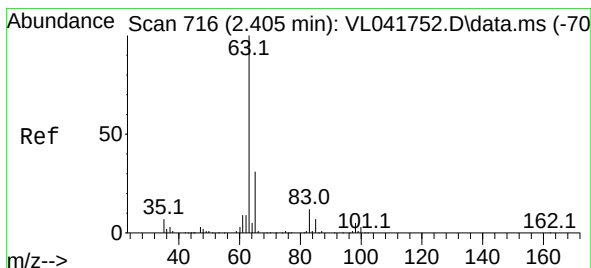
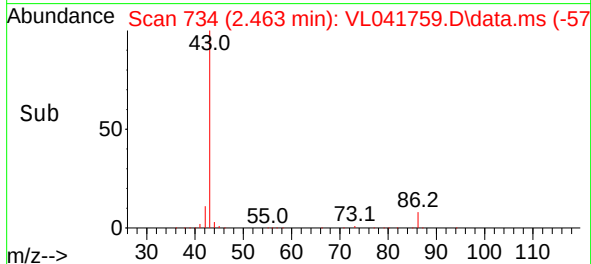
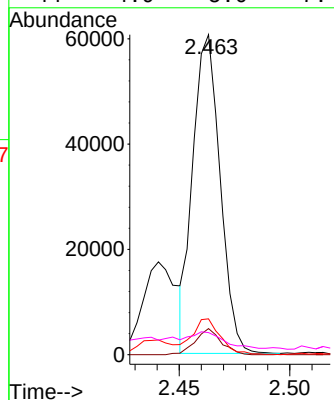
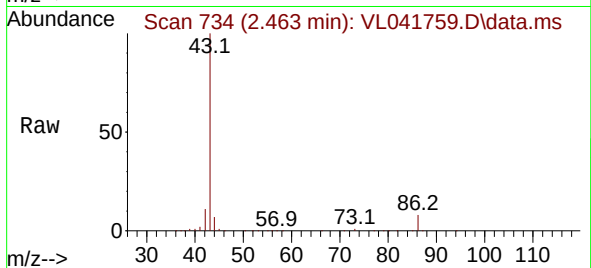
ClientSampleId :

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#

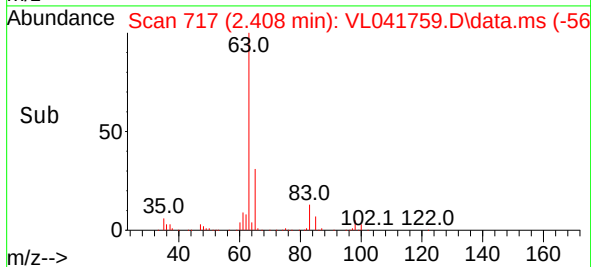
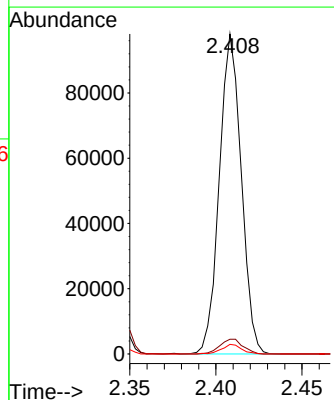
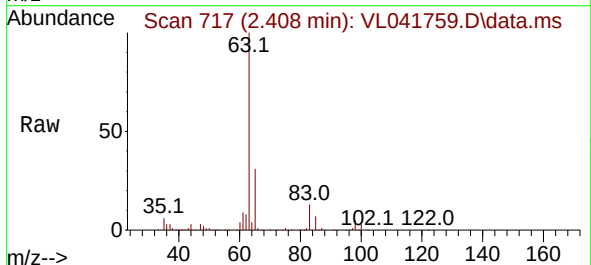
Manual Integrations
 APPROVED

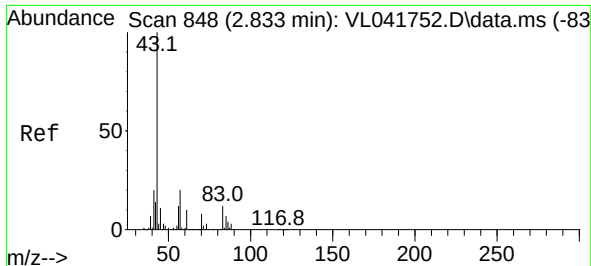
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024



#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

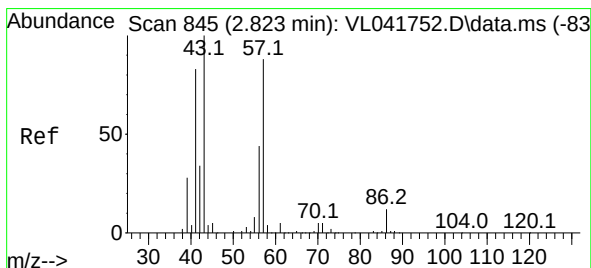
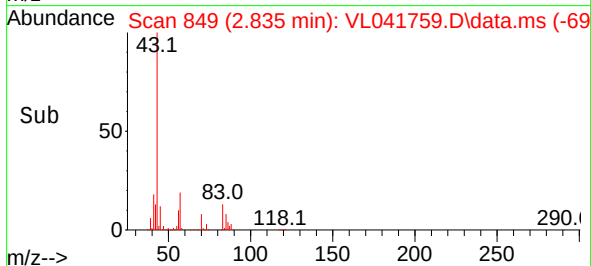
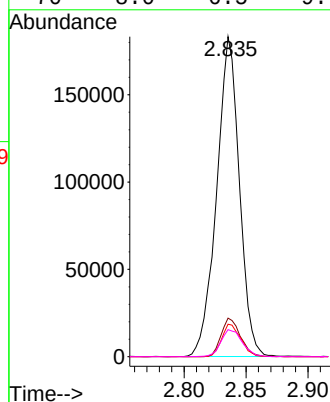
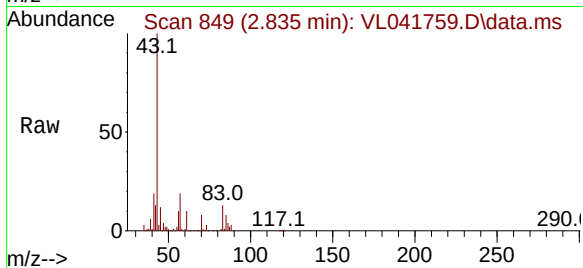
70 8.0 6.5 9.7

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

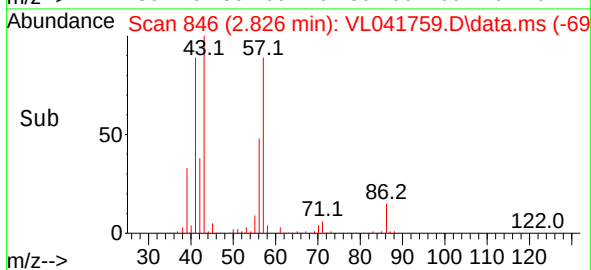
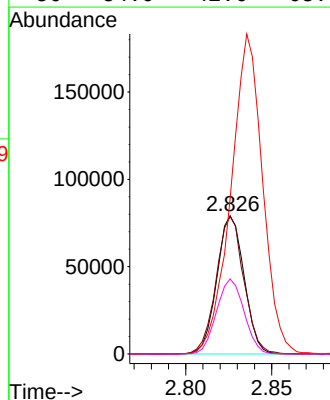
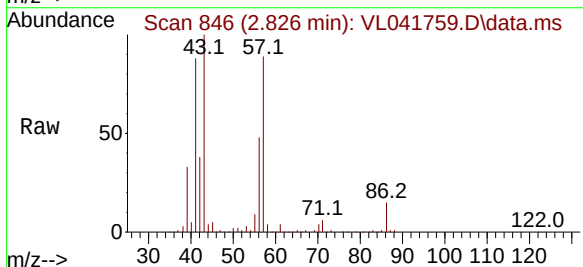
Ion Ratio Lower Upper

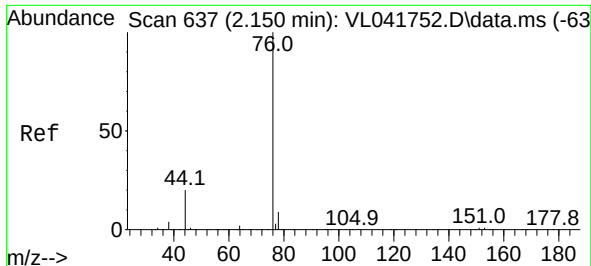
57 100

41 101.5 79.6 119.4

43 270.5 211.0 316.6

56 54.9 42.6 63.8





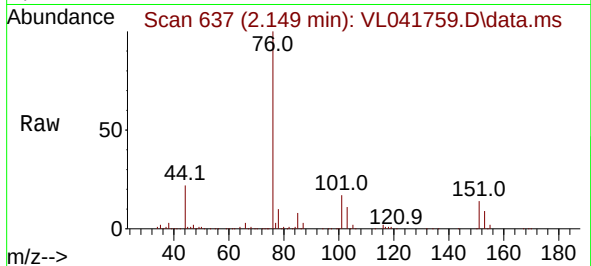
#27
Carbon Disulfide
Concen: 10.649 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

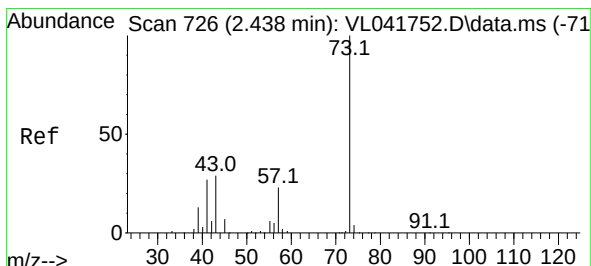
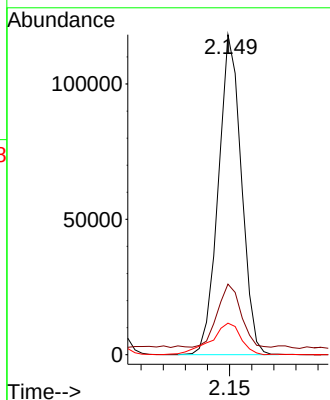
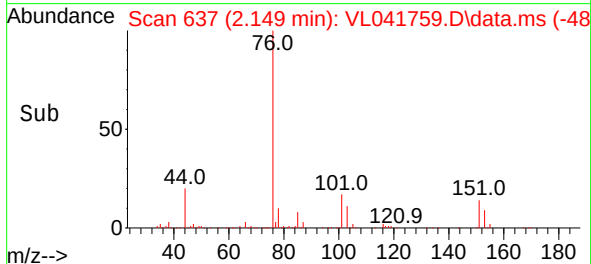


Tgt Ion: 76 Resp: 85650
Ion Ratio Lower Upper
76 100
44 22.3 17.6 26.4
78 12.9 10.2 15.4

Manual Integrations

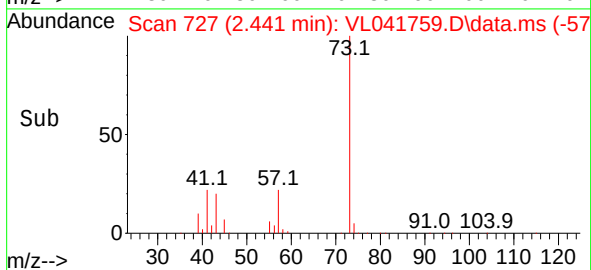
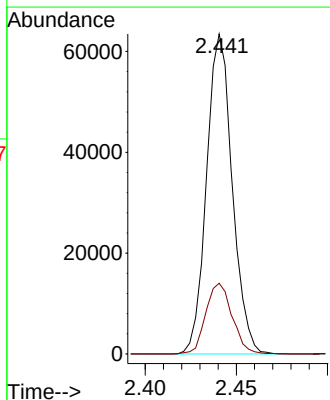
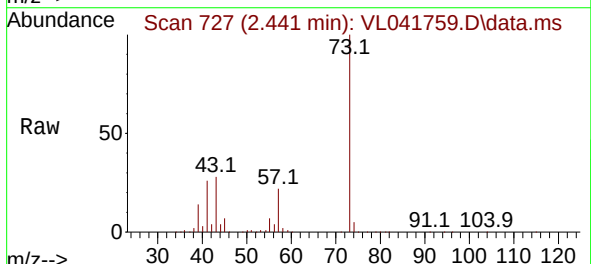
APPROVED

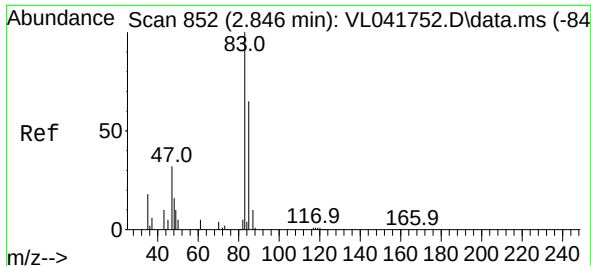
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

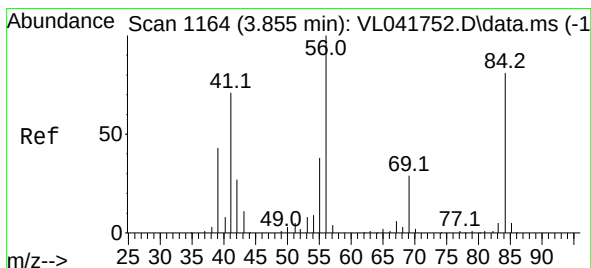
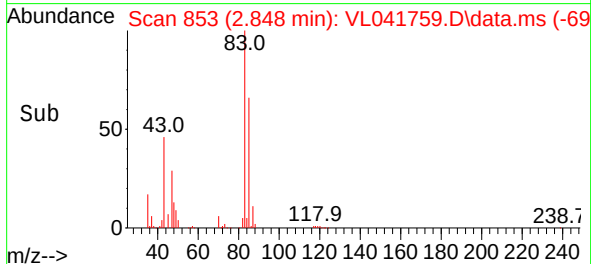
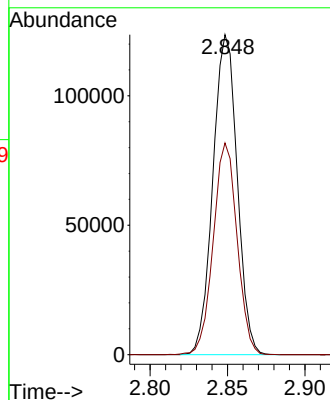
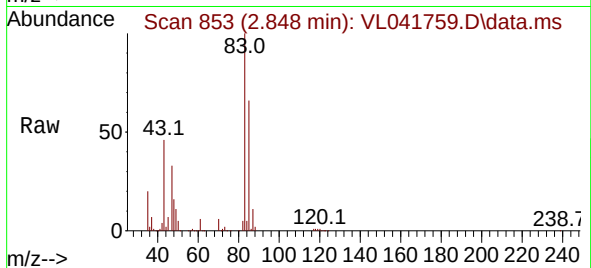
85 66.2 51.8 77.6

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

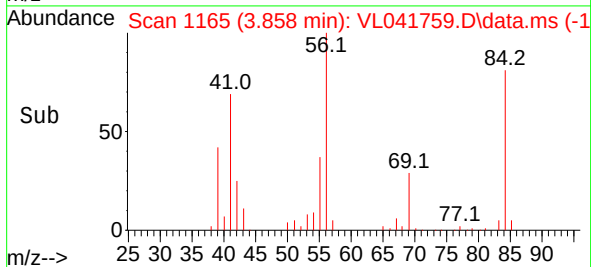
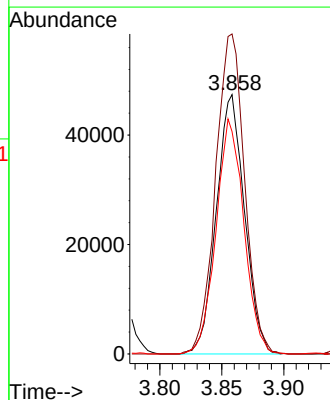
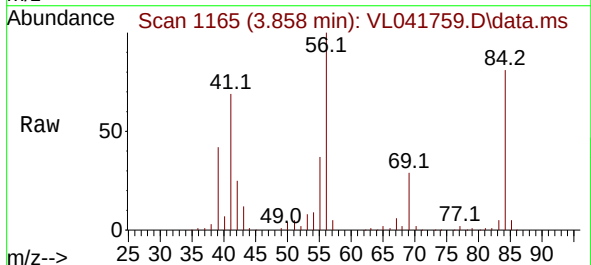
Tgt Ion: 84 Resp: 75274

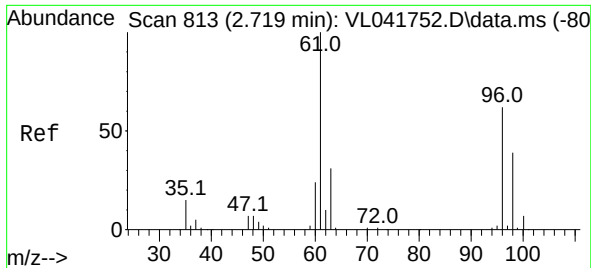
Ion Ratio Lower Upper

84 100

56 126.5 102.3 153.5

41 89.3 74.0 111.0





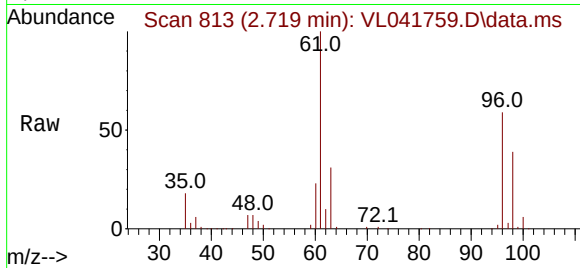
#31
 cis-1,2-Dichloroethene
 Concen: 9.935 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

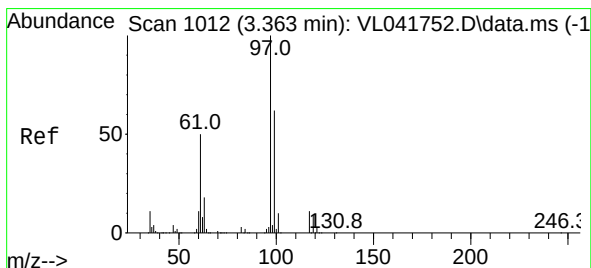
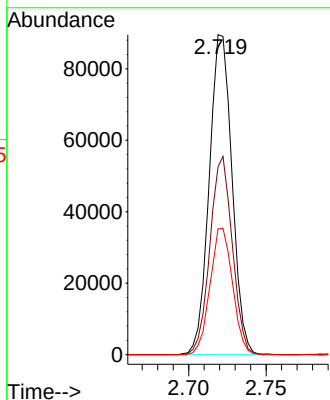
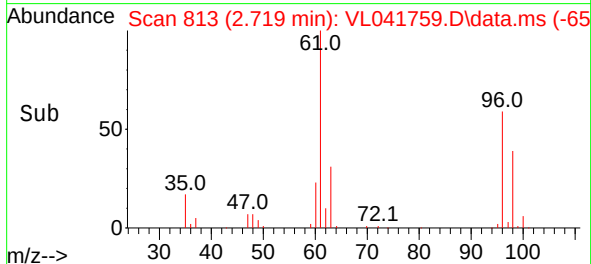


Tgt Ion: 61 Resp: 91628
 Ion Ratio Lower Upper
 61 100
 96 58.7 49.7 74.5
 98 39.3 30.8 46.2

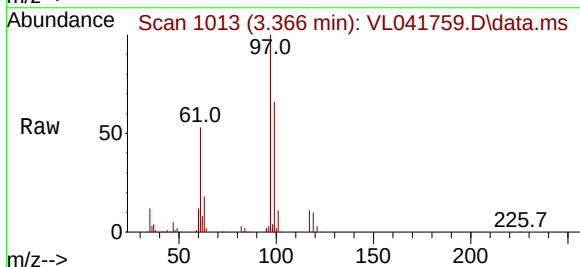
Manual Integrations

APPROVED

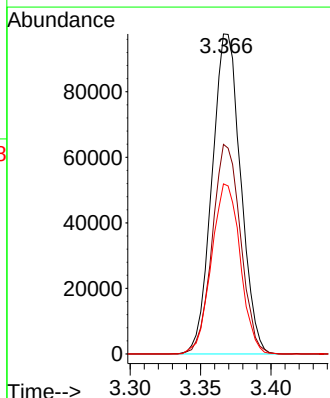
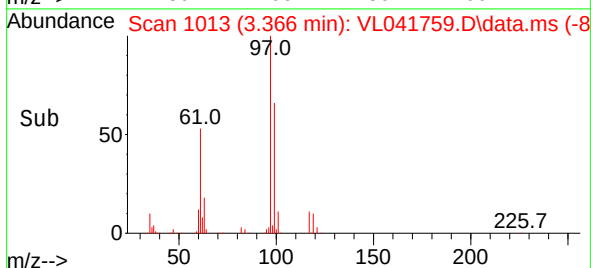
Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

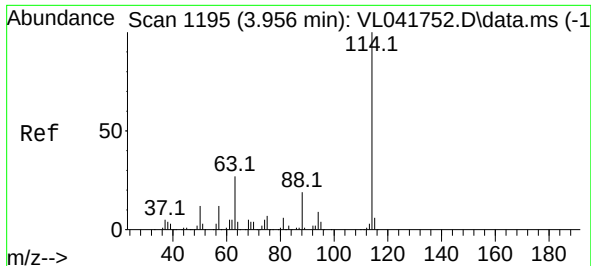


#32
 1,1,1-Trichloroethane
 Concen: 9.979 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59



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





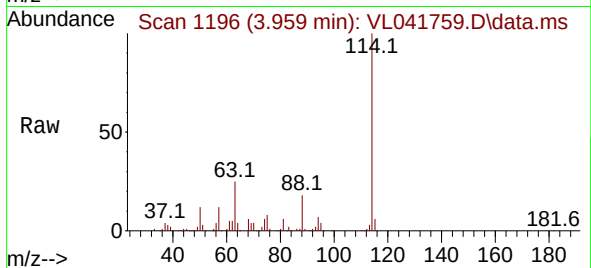
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

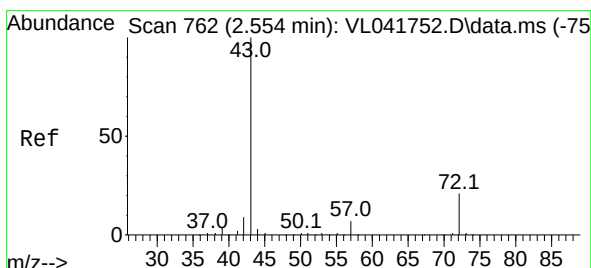
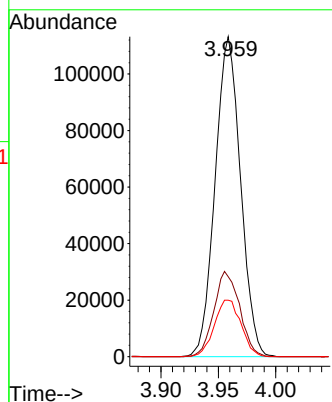
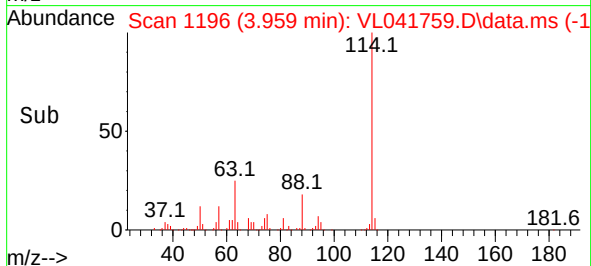


Tgt Ion:114 Resp: 174378
Ion Ratio Lower Upper
114 100
63 27.0 21.8 32.8
88 18.6 14.8 22.2

Manual Integrations

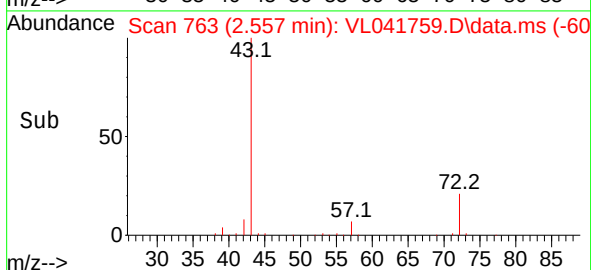
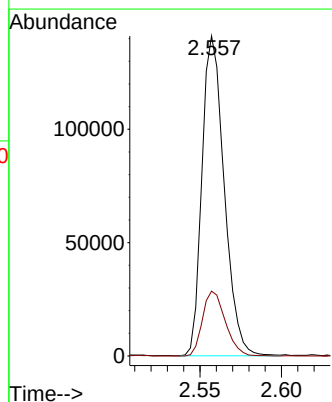
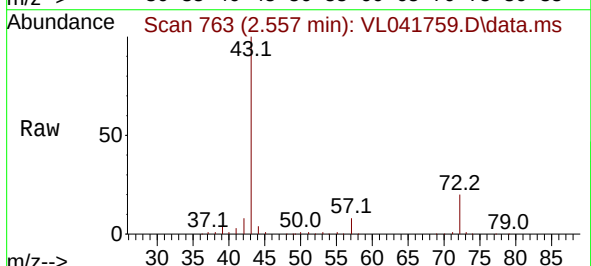
APPROVED

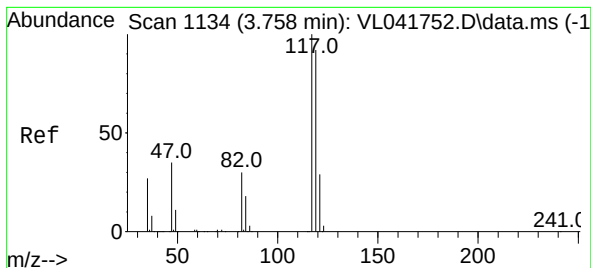
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

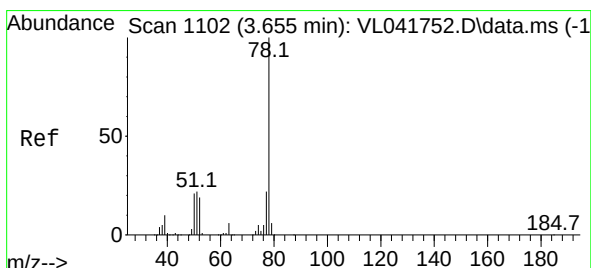
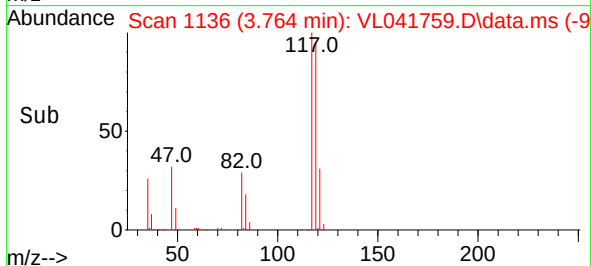
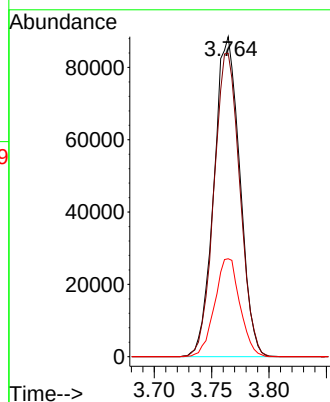
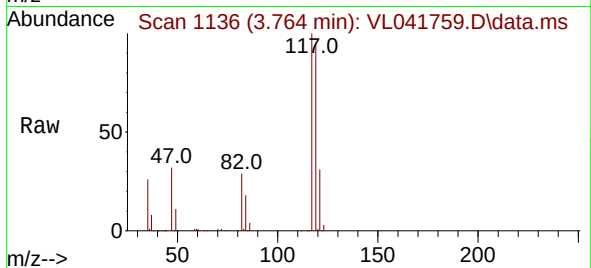
Tgt Ion:117 Resp: 13853

Ion	Ratio	Lower	Upper
117	100		
119	94.8	73.7	110.5
121	30.6	23.0	34.4

Manual Integrations

APPROVED

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

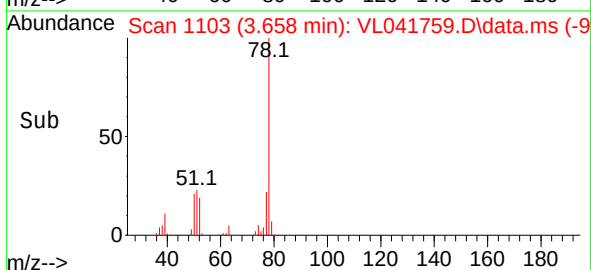
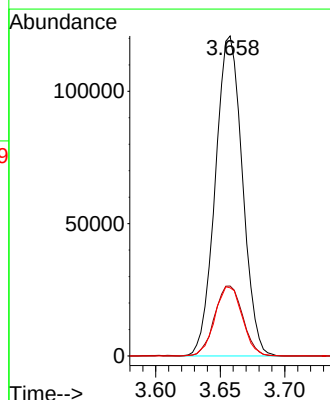
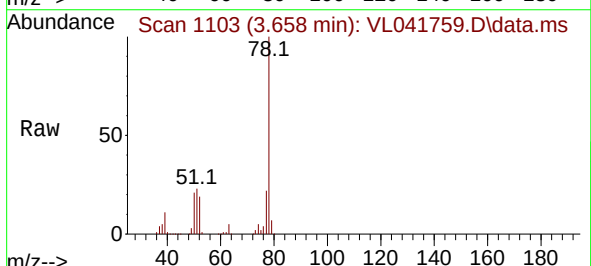
Delta R.T. 0.003 min

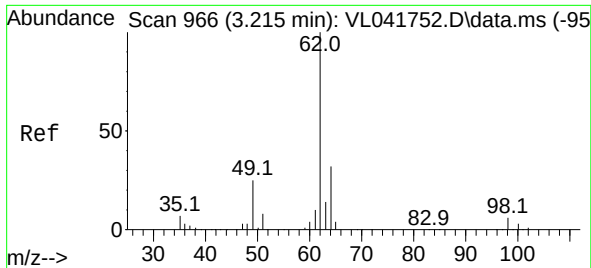
Lab File: VL041759.D

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 :

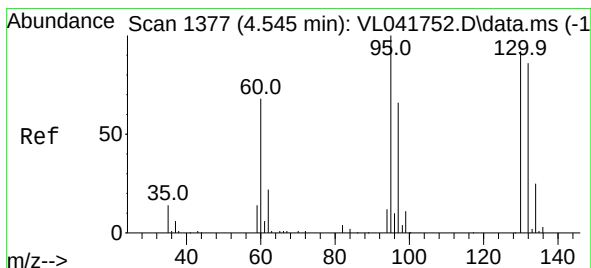
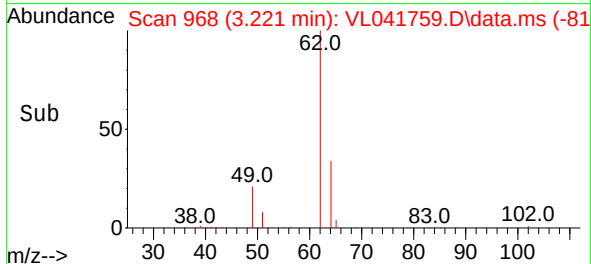
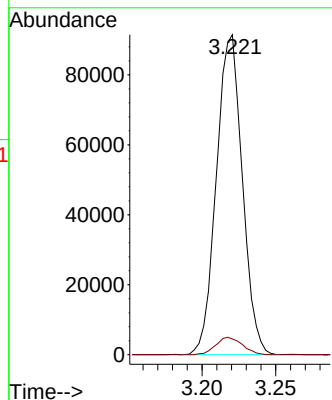
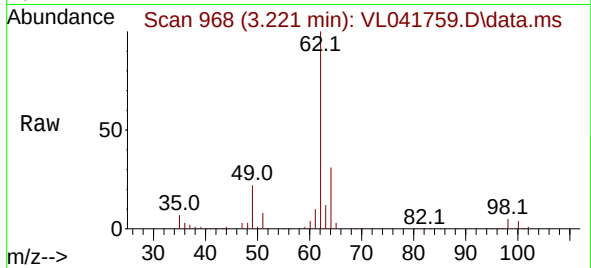
ICVVL121624

Tgt Ion: 62 Resp: 11203
Ion Ratio Lower Upper
62 100
98 5.5 4.7 7.1

Manual Integrations

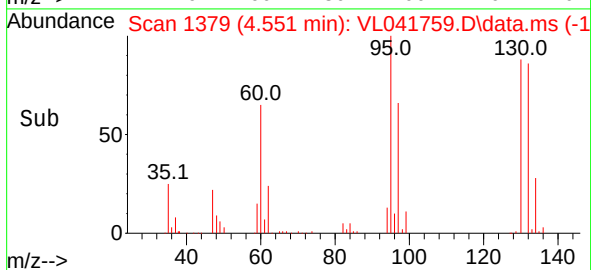
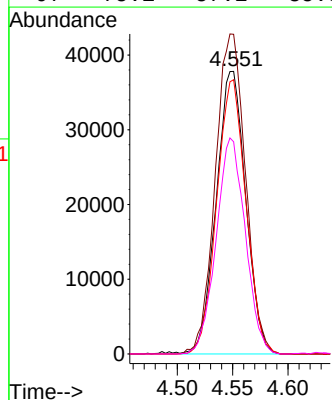
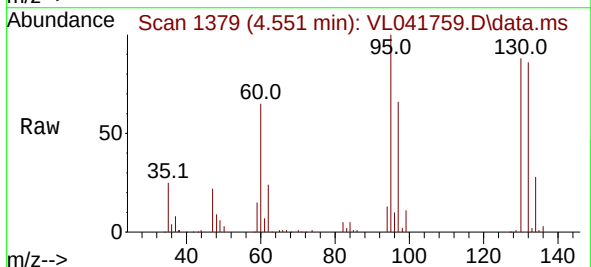
APPROVED

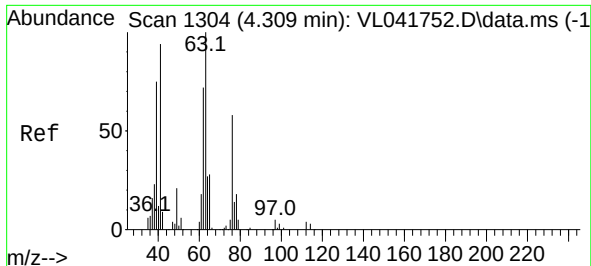
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

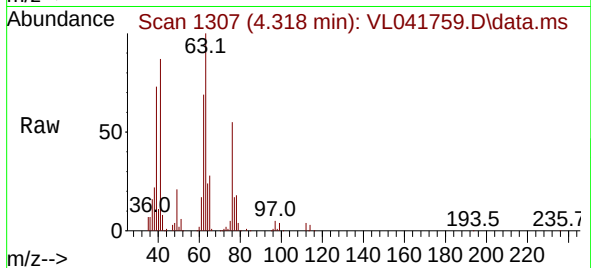
Tgt Ion:130 Resp: 70108
Ion Ratio Lower Upper
130 100
95 113.2 87.0 130.6
132 97.0 75.0 112.6
97 75.1 57.2 85.8





#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

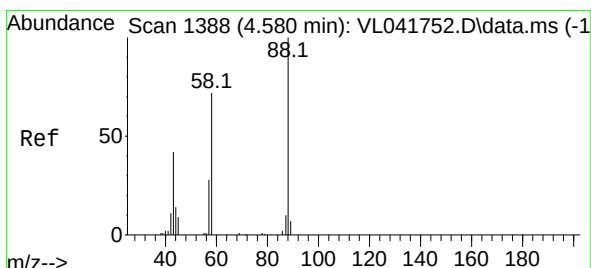
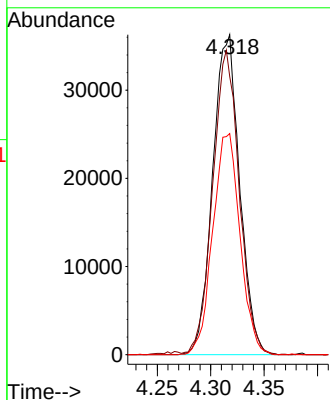
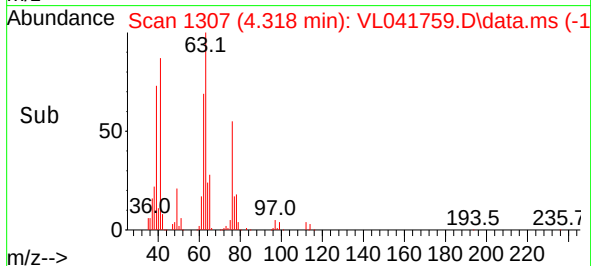
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



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

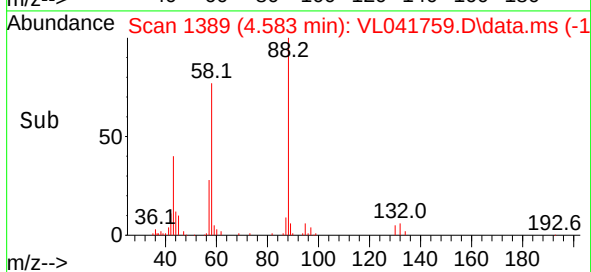
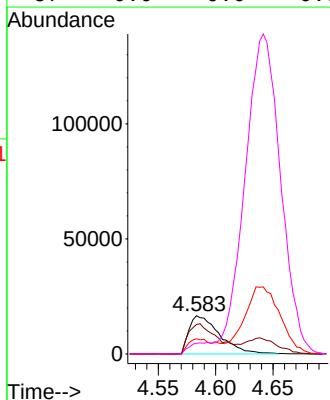
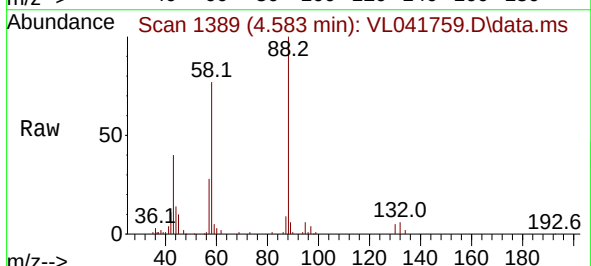
Manual Integrations
APPROVED

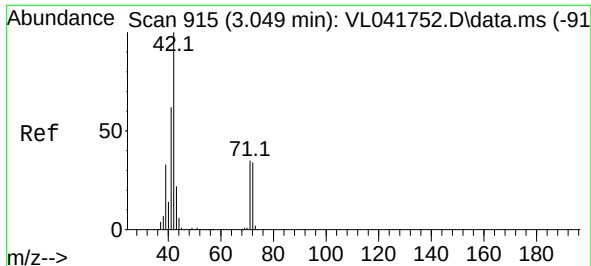
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

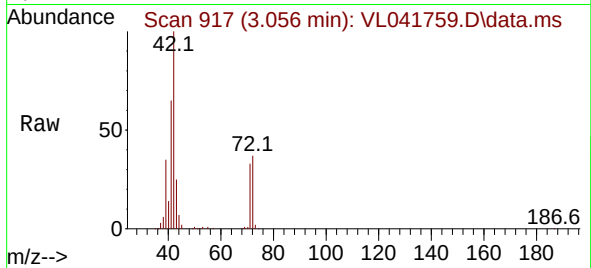
Tgt Ion: 88 Resp: 30891
Ion Ratio Lower Upper
88 100
58 76.6 61.0 91.6
43 39.2 29.4 44.0
57 0.0 0.0 0.0





#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

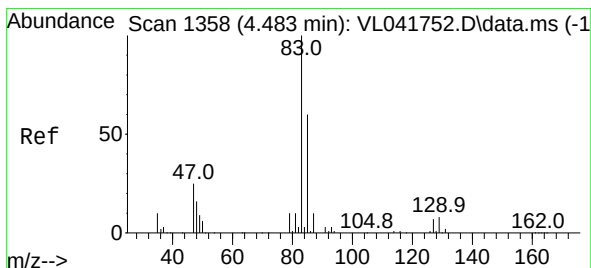
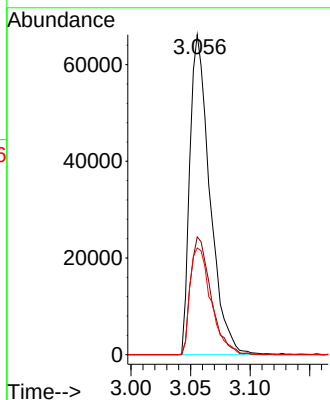
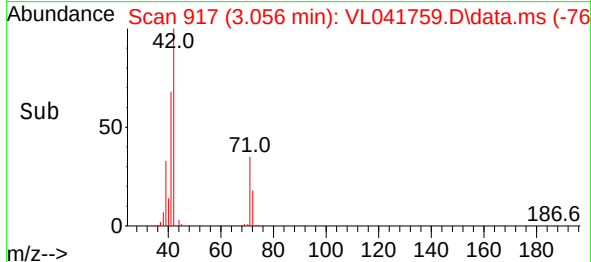
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



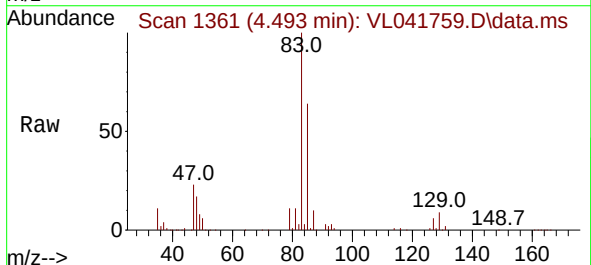
Tgt Ion: 42 Resp: 77472
Ion Ratio Lower Upper
42 100
72 37.5 29.1 43.7
71 35.4 28.4 42.6

Manual Integrations
APPROVED

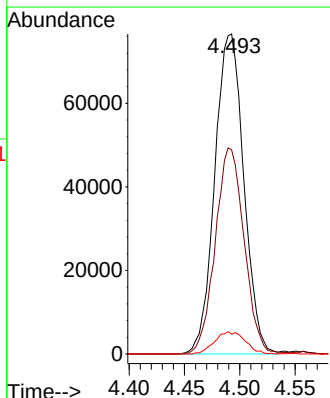
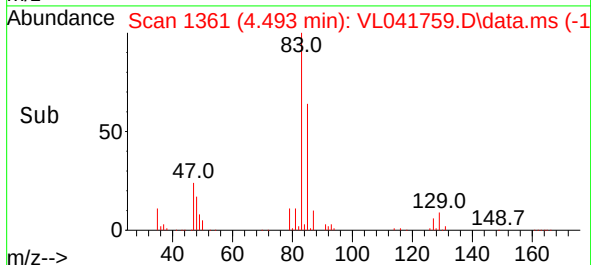
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

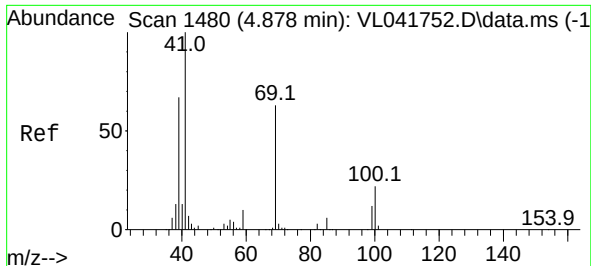


#42
Bromodichloromethane
Concen: 10.821 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



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

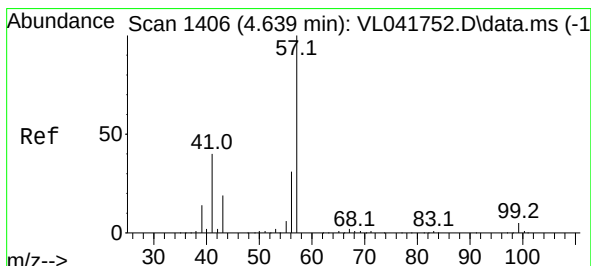
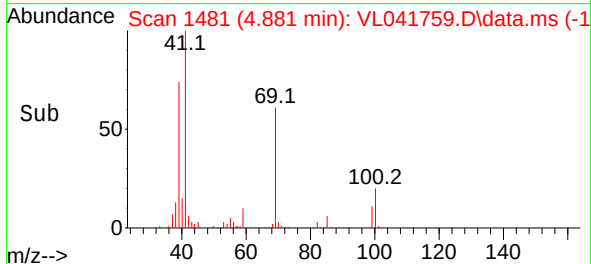
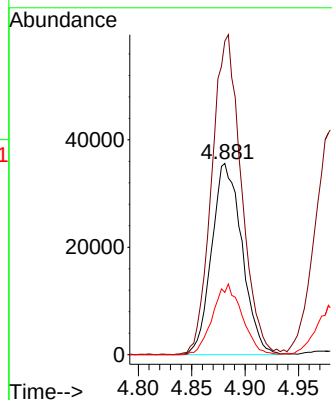
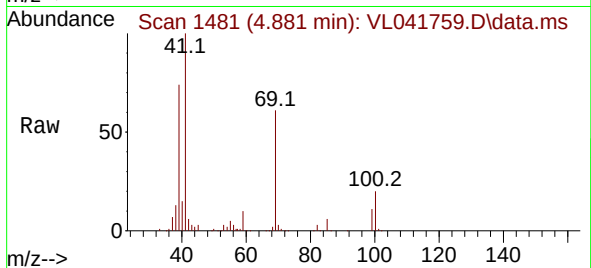
Tgt Ion: 69 Resp: 70299

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

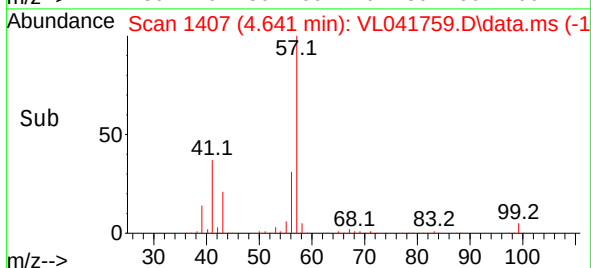
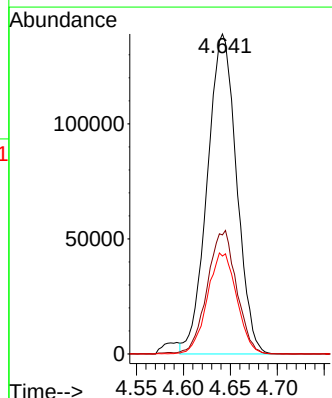
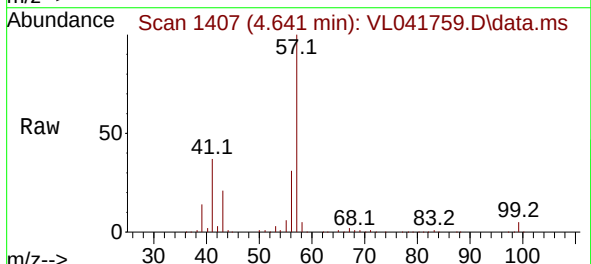
Delta R.T. 0.003 min

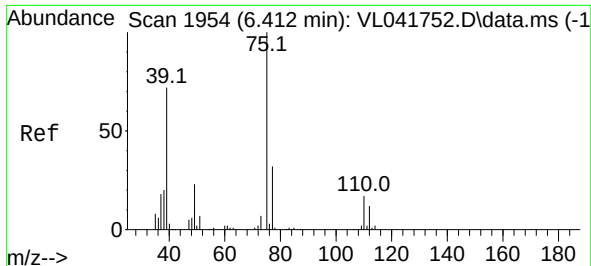
Lab File: VL041759.D

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

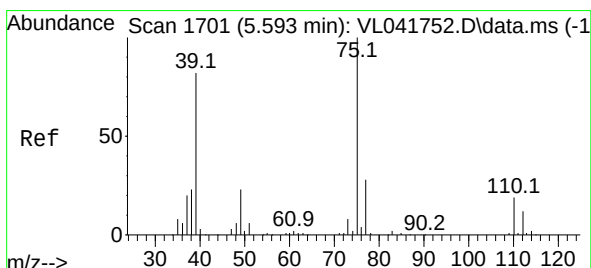
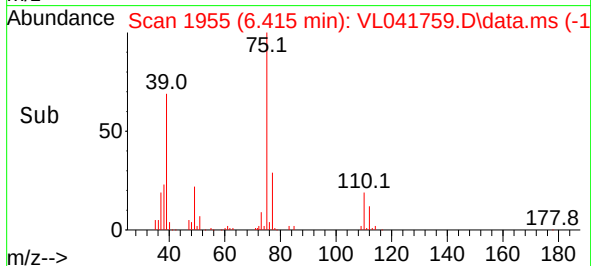
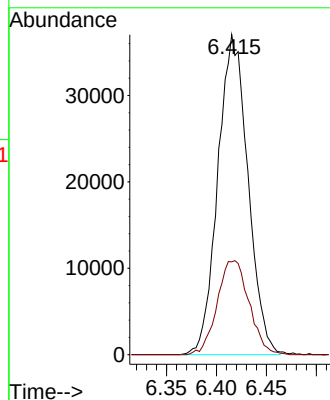
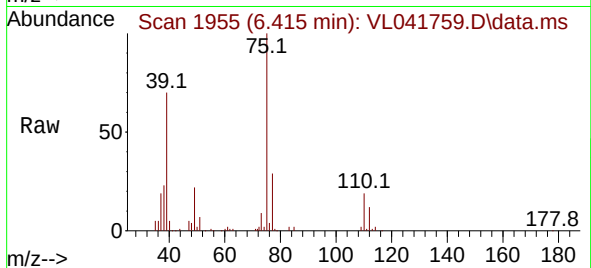
77 29.0 25.9 38.9

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

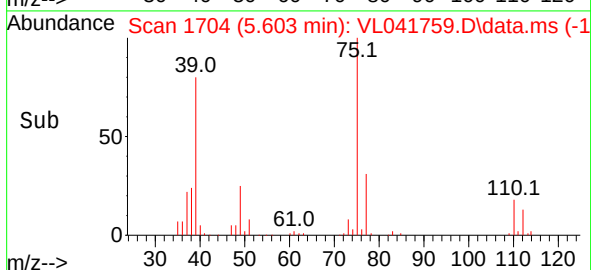
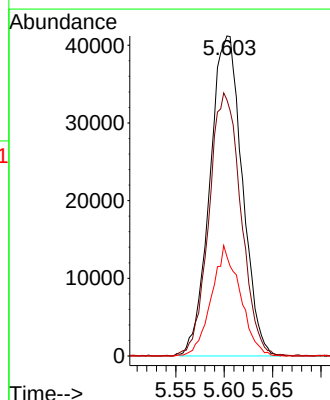
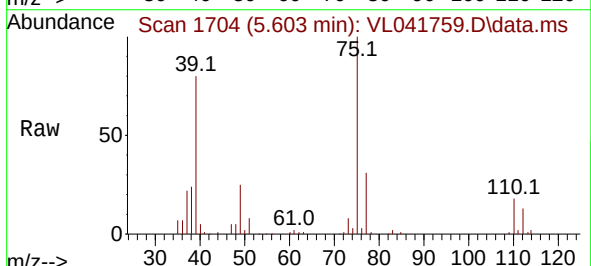
Tgt Ion: 75 Resp: 95812

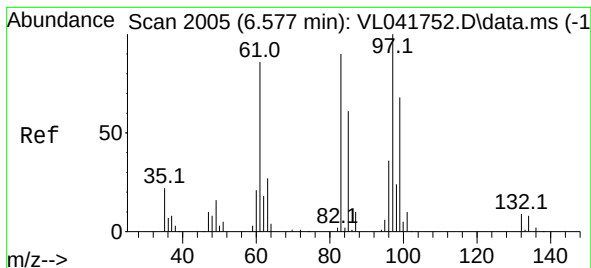
Ion Ratio Lower Upper

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

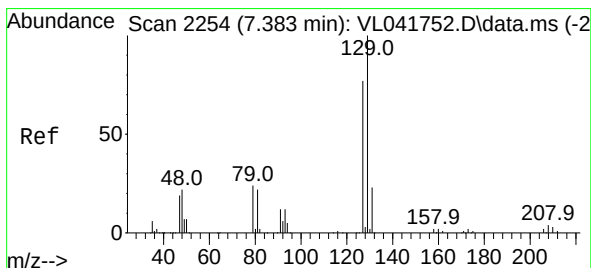
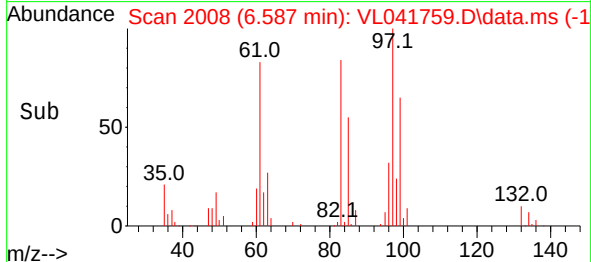
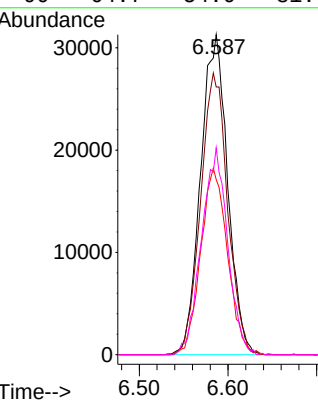
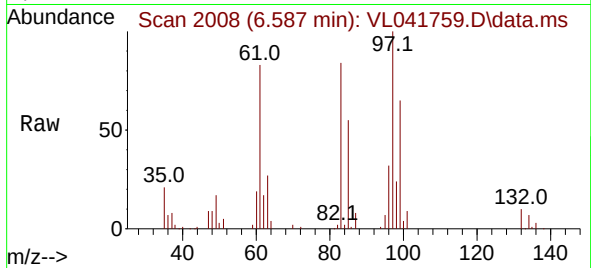
99 64.7 54.0 81.0

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

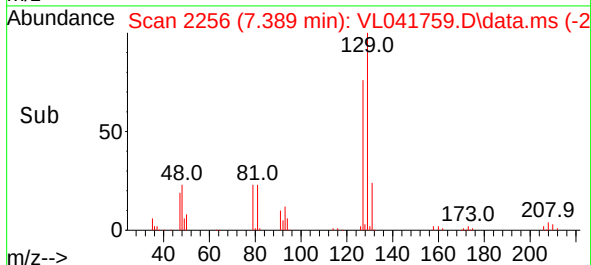
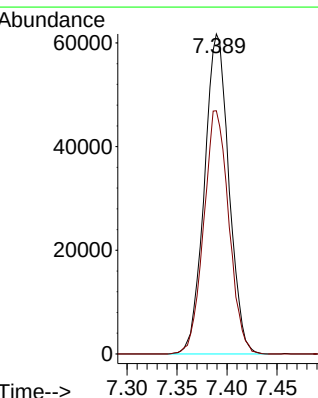
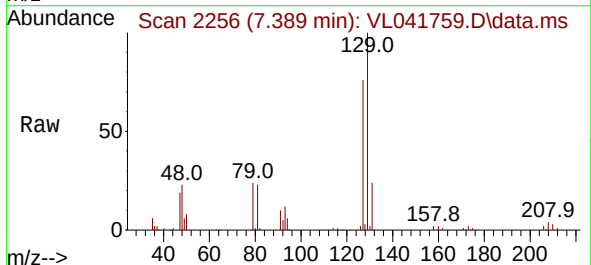
Acq: 16 Dec 2024 18:59

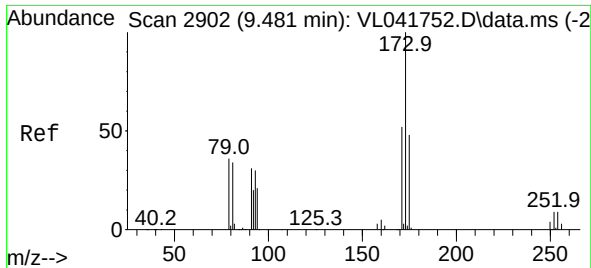
Tgt Ion:129 Resp: 105378

Ion Ratio Lower Upper

129 100

127 77.8 38.8 116.3





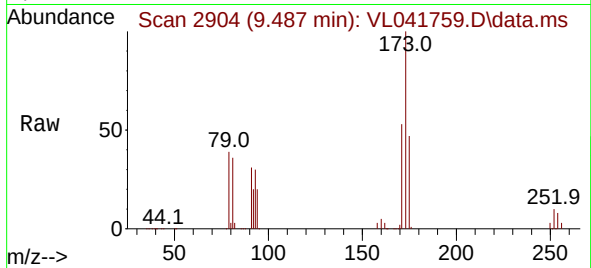
#49
Bromoform
Concen: 11.682 ppbv
RT: 9.487 min Scan# 2902
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

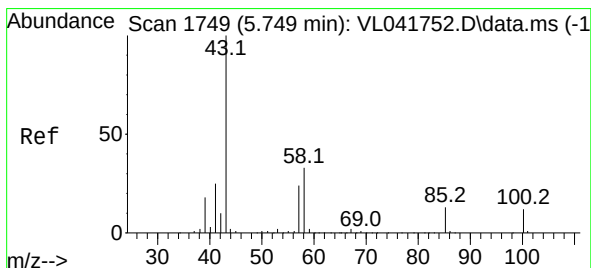
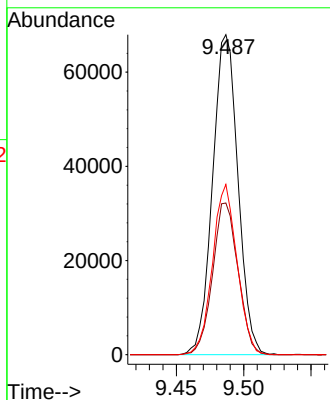
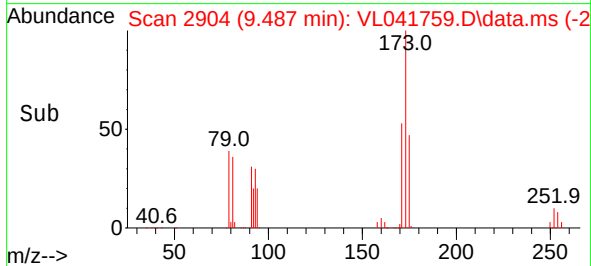


Tgt Ion:173 Resp: 8897
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 51.4 41.1 61.7

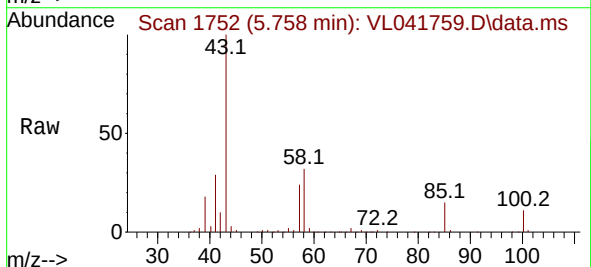
Manual Integrations

APPROVED

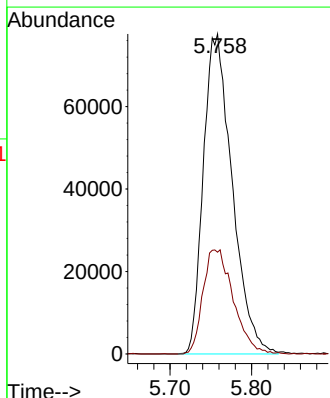
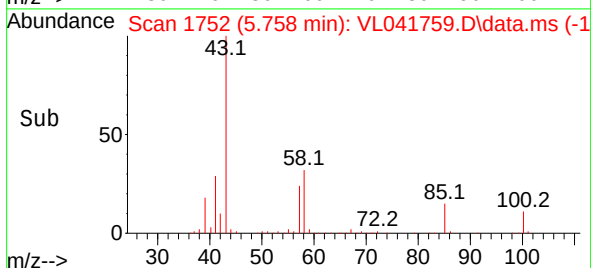
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

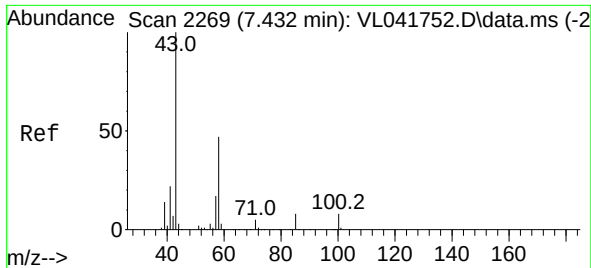


#50
4-Methyl-2-Pentanone
Concen: 9.980 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



Tgt Ion: 43 Resp: 190637
Ion Ratio Lower Upper
43 100
58 34.3 26.8 40.2





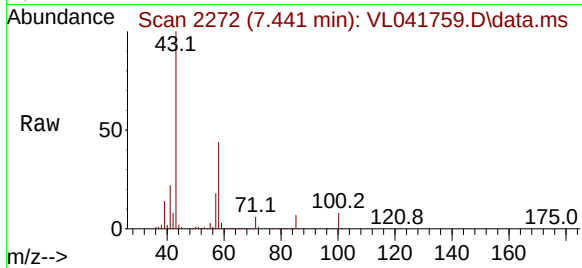
#51
2-Hexanone
Concen: 10.053 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

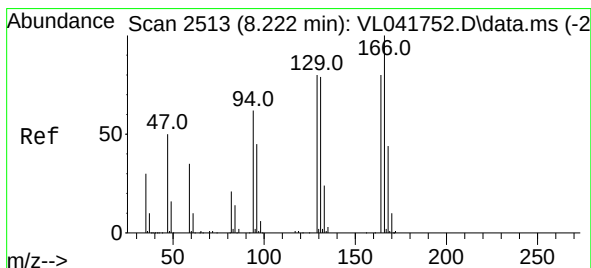
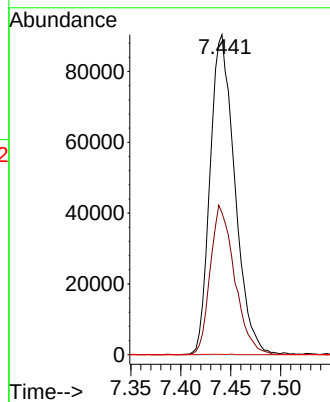
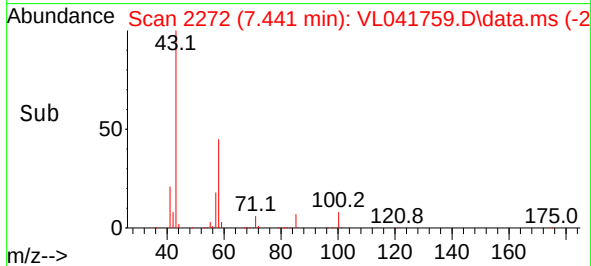


Tgt Ion: 43 Resp: 155640
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.1 0.1 0.1

Manual Integrations

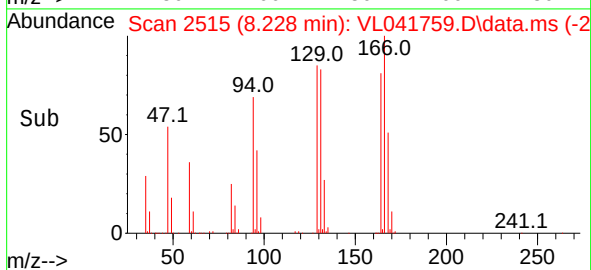
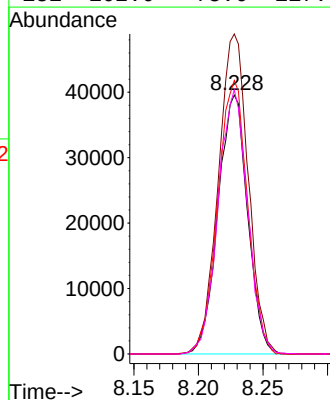
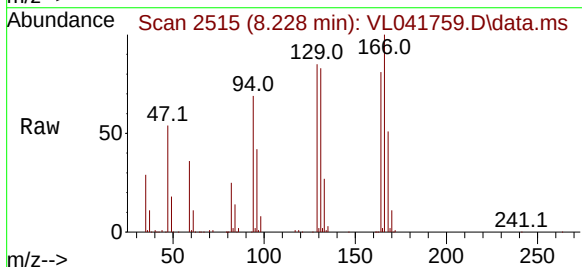
APPROVED

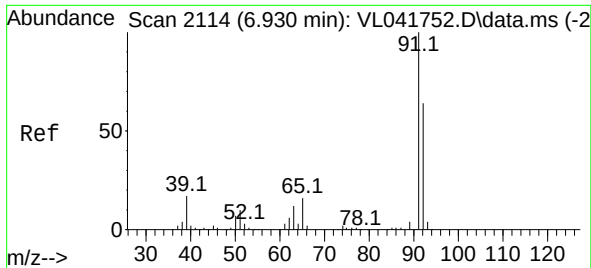
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





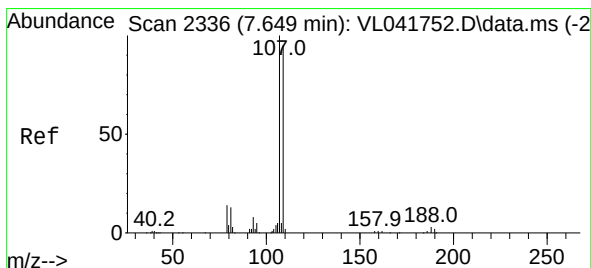
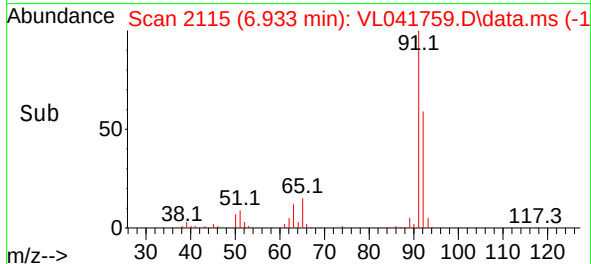
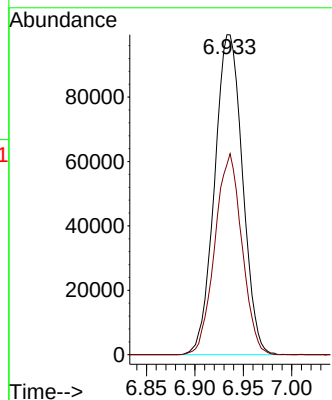
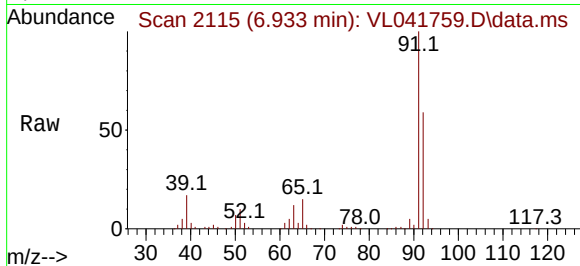
#53
Toluene
Concen: 9.768 ppbv
RT: 6.933 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 91 Resp: 199754
Ion Ratio Lower Upper
91 100
92 60.8 47.9 71.9

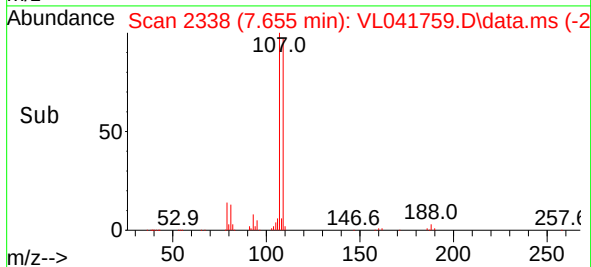
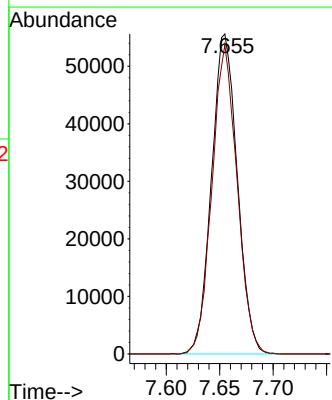
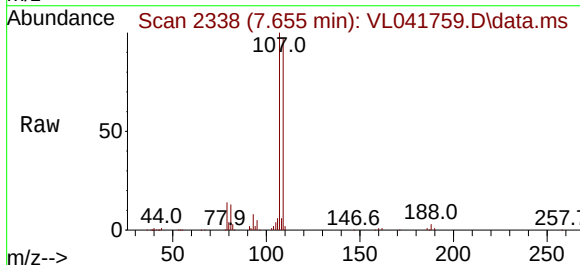
Manual Integrations
APPROVED

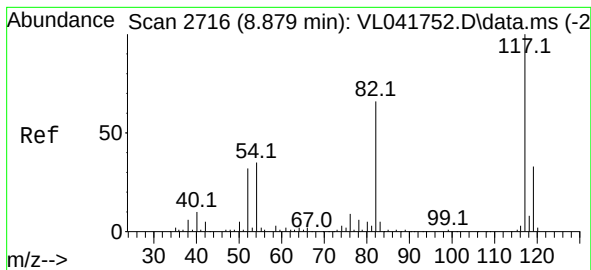
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

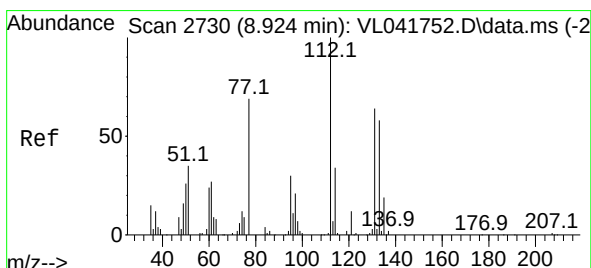
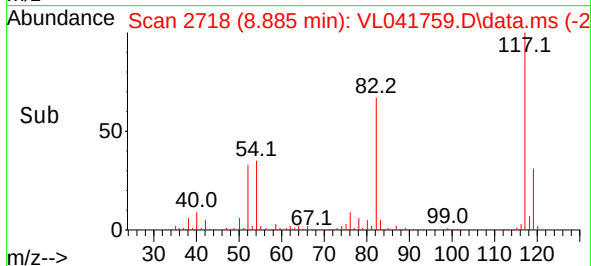
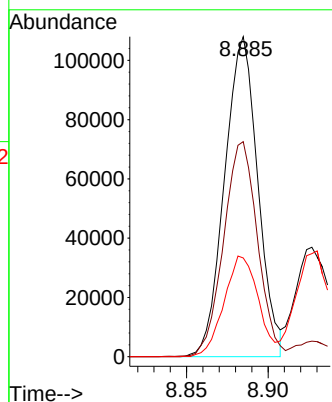
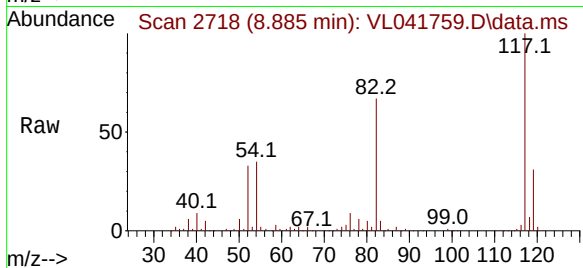
Tgt Ion:117 Resp: 15344

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

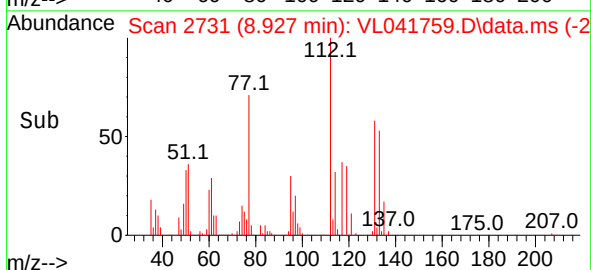
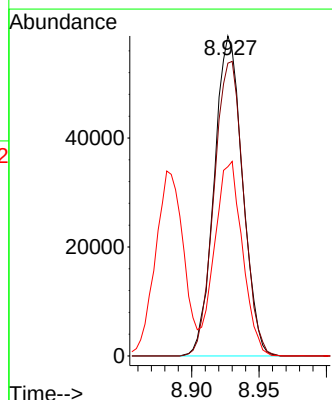
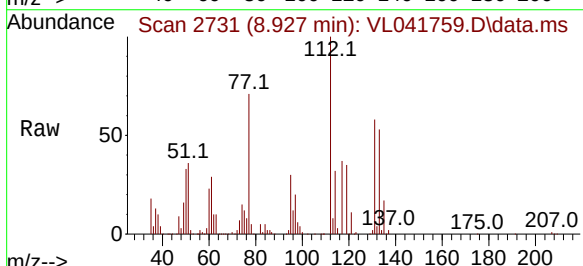
Delta R.T. 0.003 min

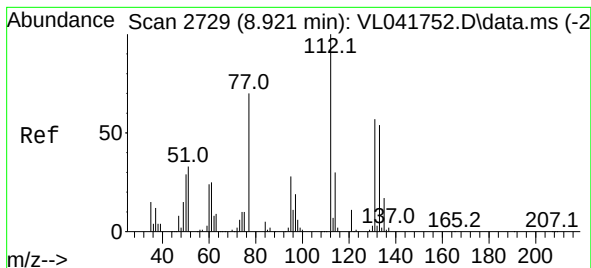
Lab File: VL041759.D

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 :

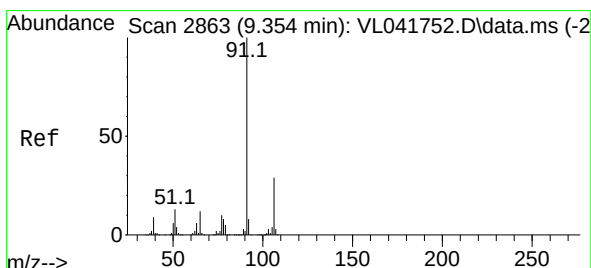
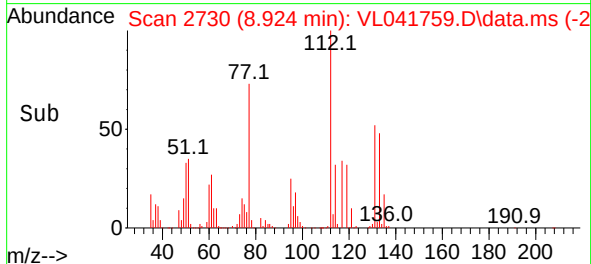
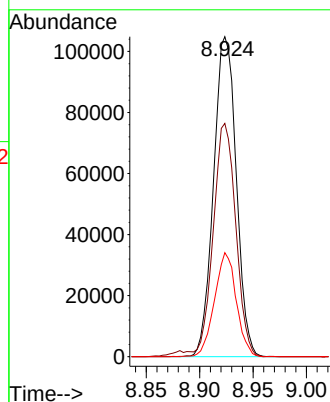
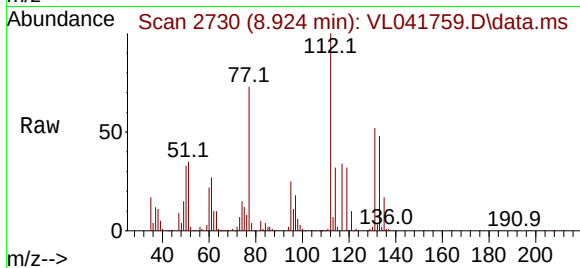
ICVVL121624

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

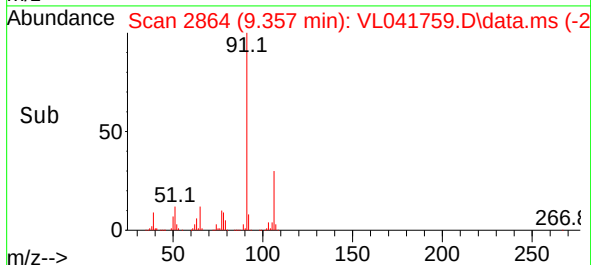
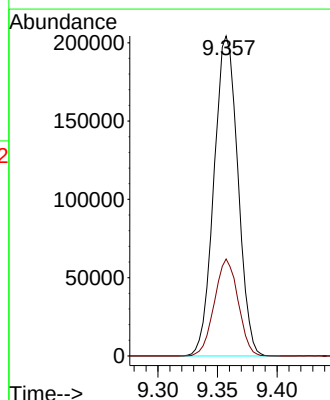
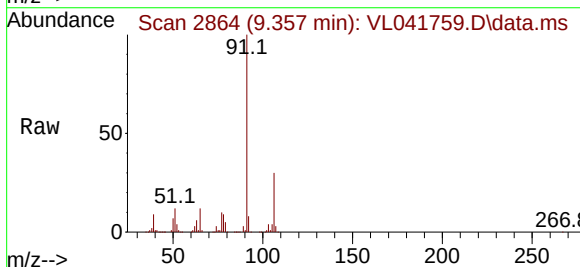
RT: 9.357 min Scan# 2864

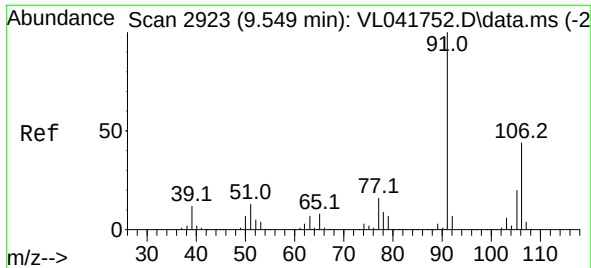
Delta R.T. 0.003 min

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 :

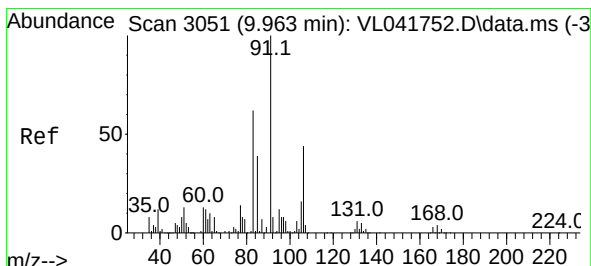
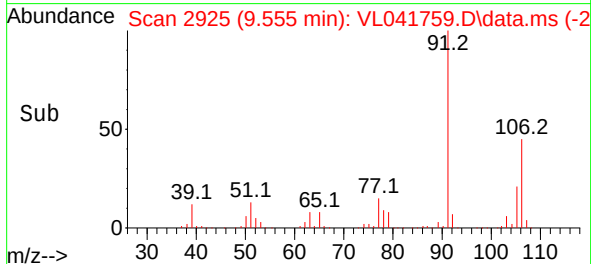
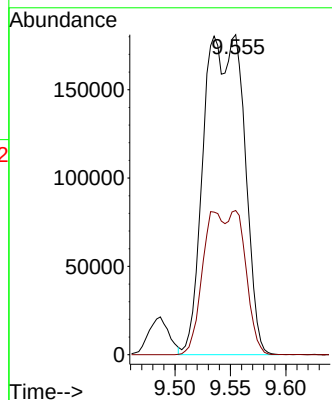
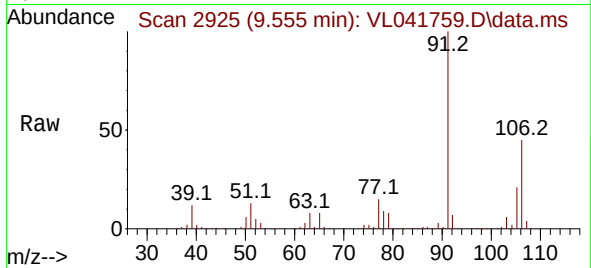
ICVVL121624

Tgt Ion: 91 Resp: 45910
Ion Ratio Lower Upper
91 100
106 45.5 0.0 0.0

Manual Integrations

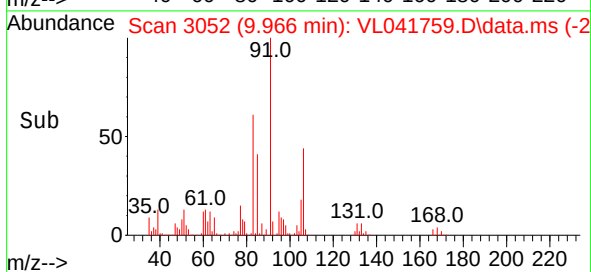
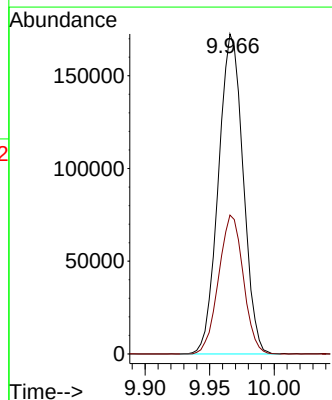
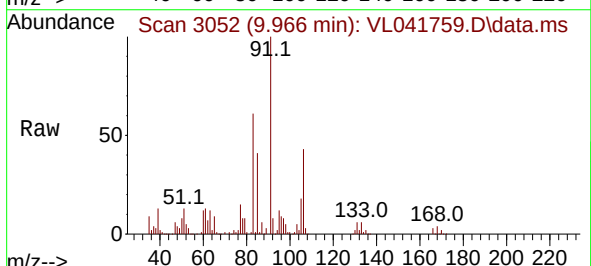
APPROVED

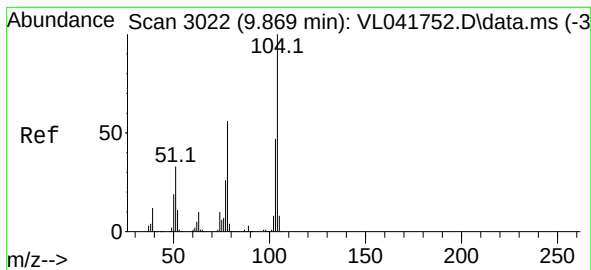
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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 :

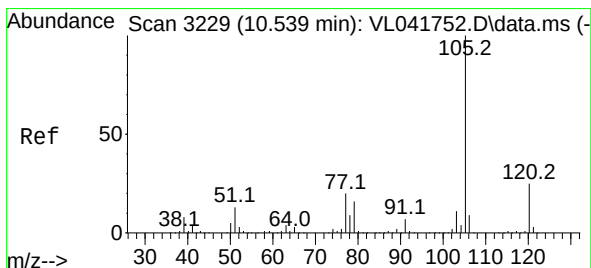
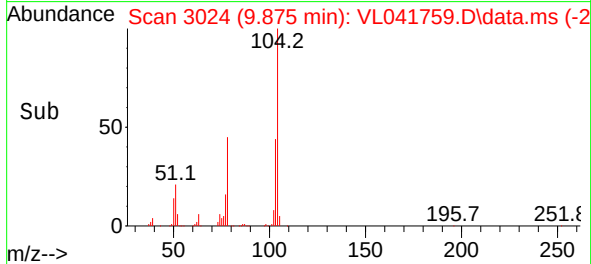
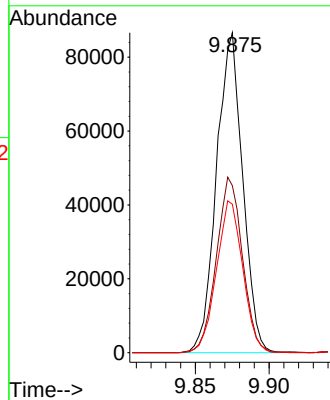
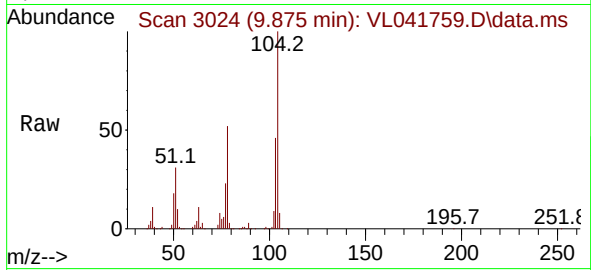
ICVVL121624

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

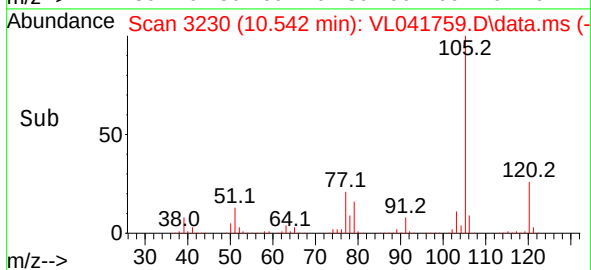
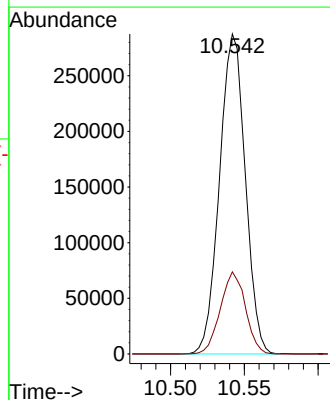
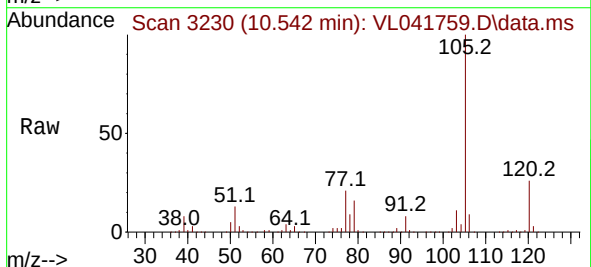
RT: 10.542 min Scan# 3230

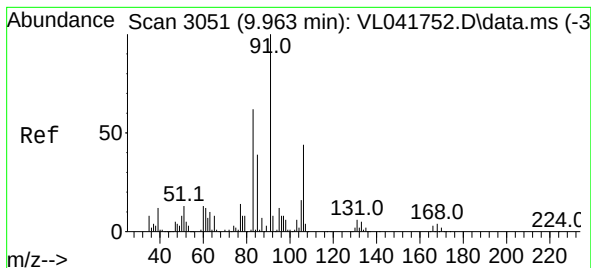
Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

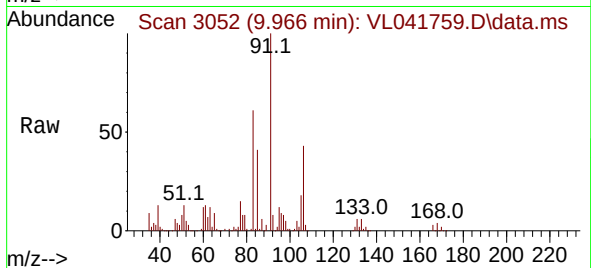
Tgt Ion:105 Resp: 348887
 Ion Ratio Lower Upper
 105 100
 120 25.0 19.8 29.8





#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

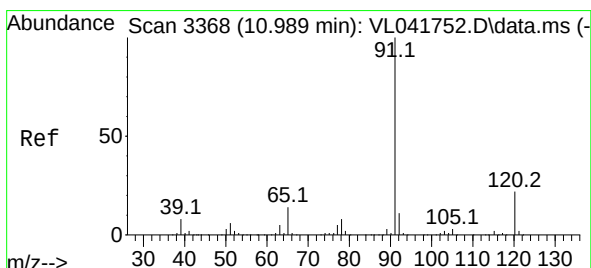
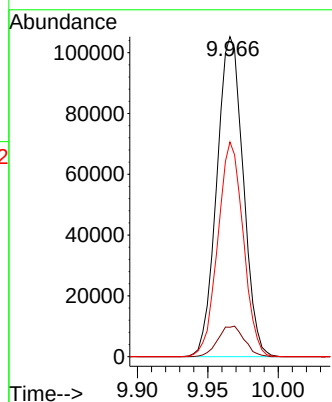
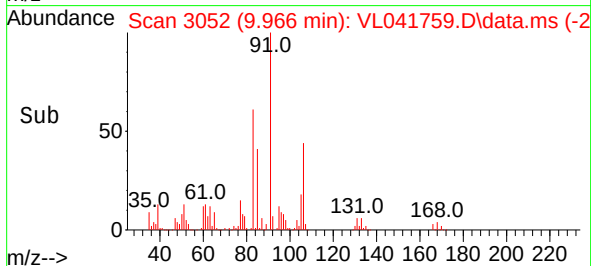
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



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

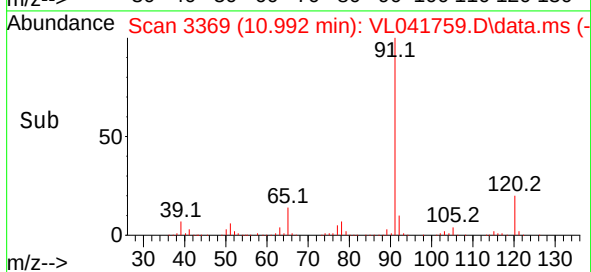
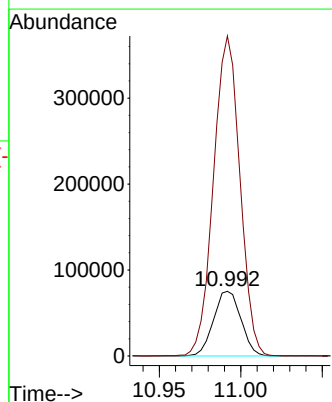
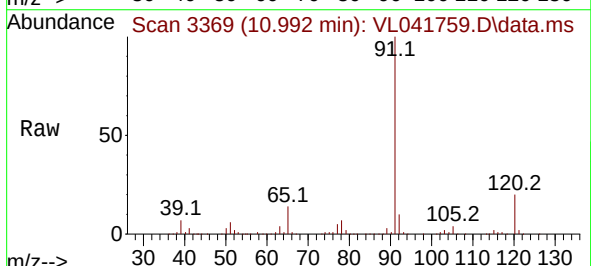
Manual Integrations
APPROVED

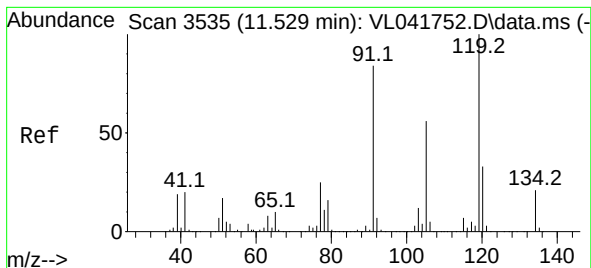
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

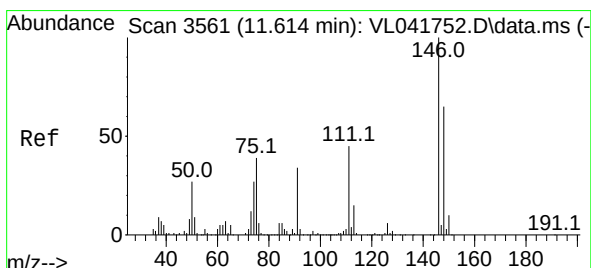
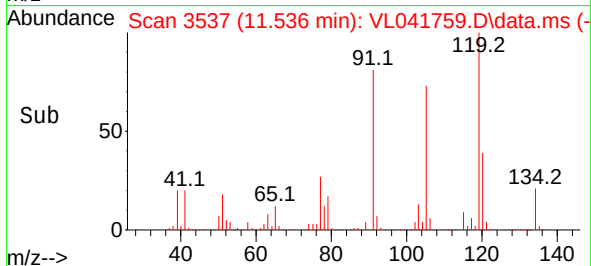
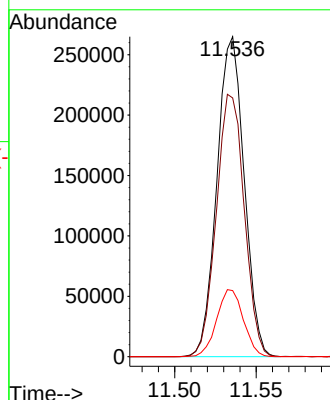
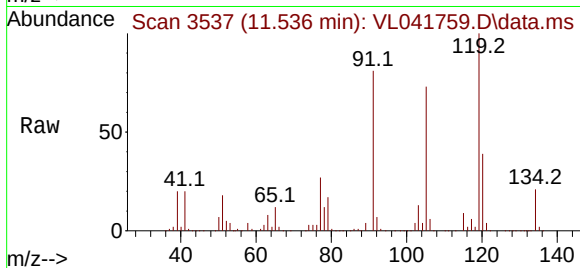
Tgt Ion:119 Resp: 307790

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

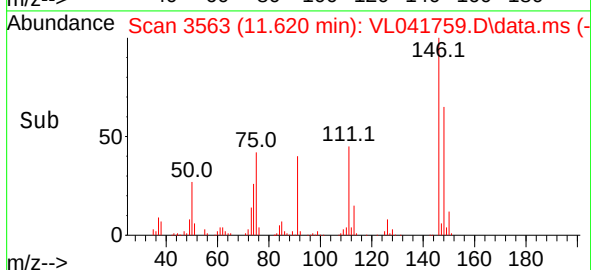
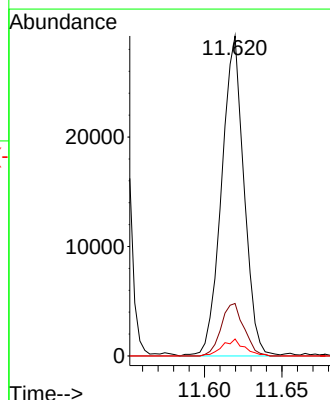
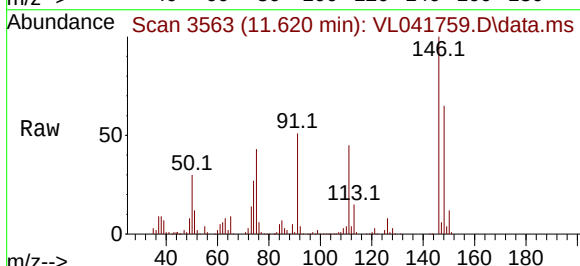
Delta R.T. 0.006 min

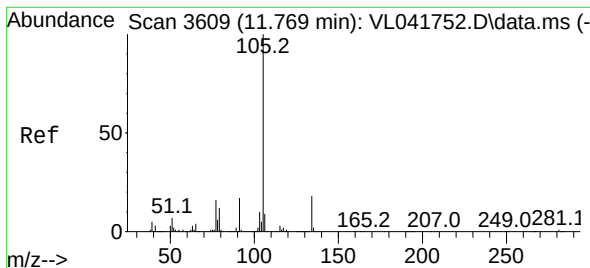
Lab File: VL041759.D

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

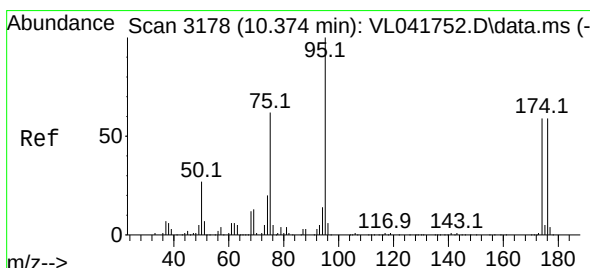
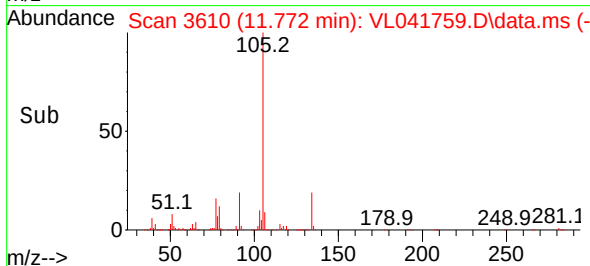
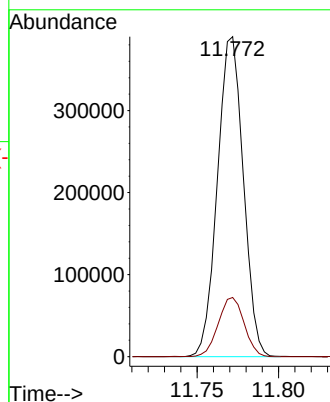
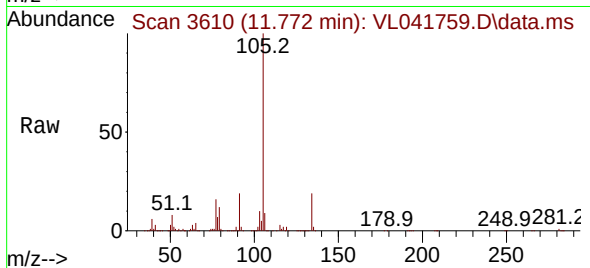
134 18.5 14.5 21.7

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

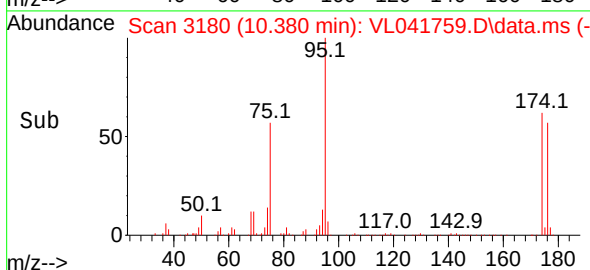
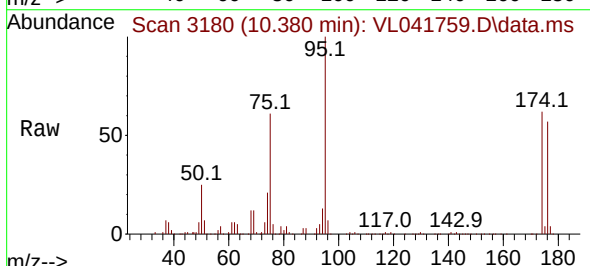
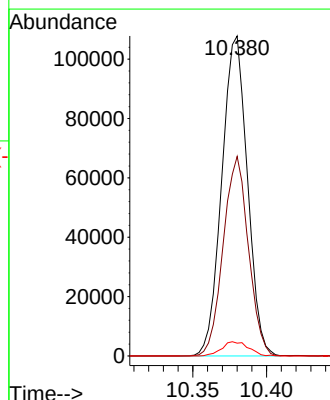
Tgt Ion: 95 Resp: 129985

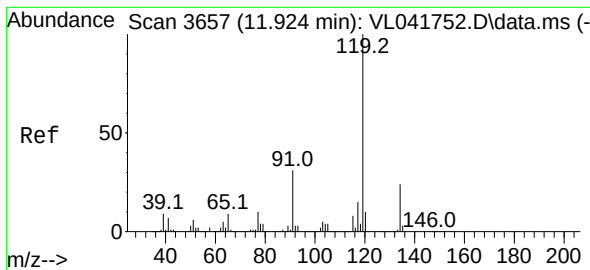
Ion Ratio Lower Upper

95 100

174 61.3 47.6 71.4

175 4.7 3.7 5.5





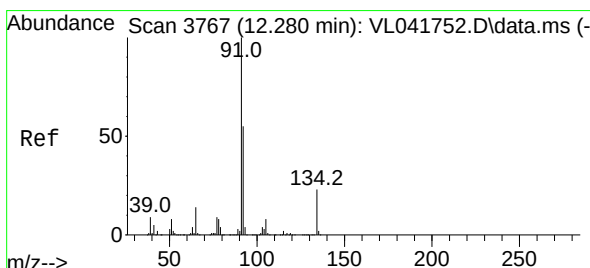
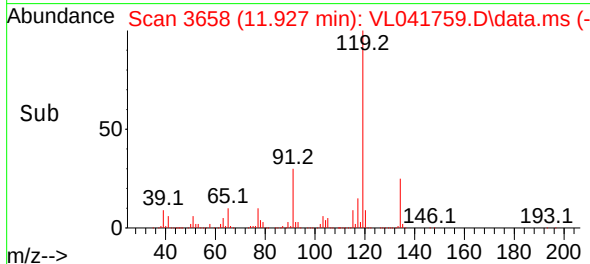
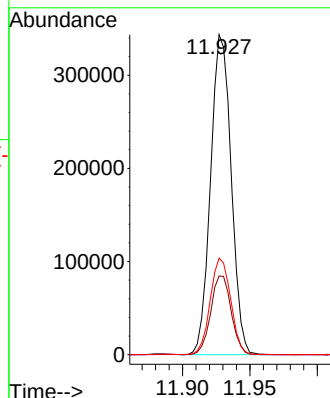
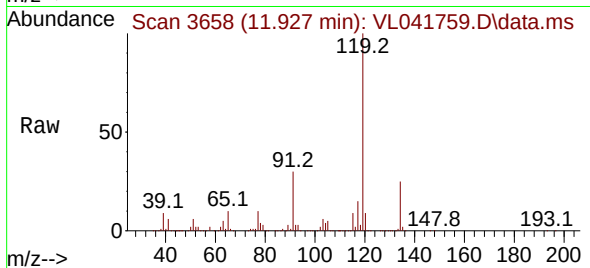
#69
p-Isopropyltoluene
Concen: 10.620 ppbv
RT: 11.927 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

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

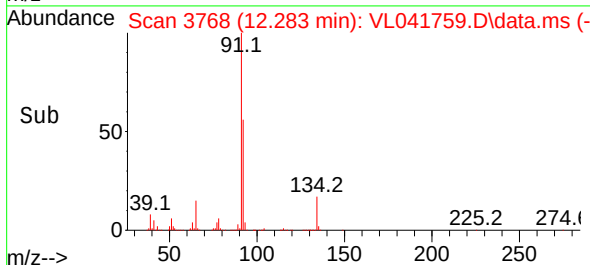
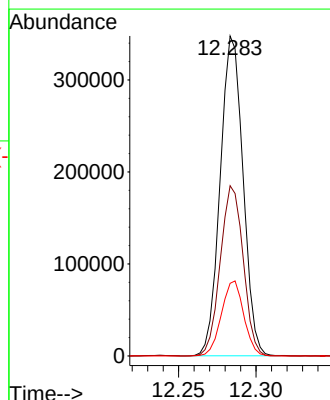
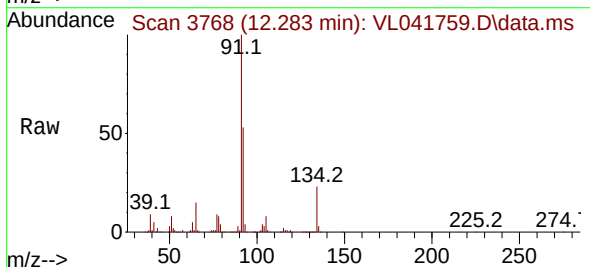
Manual Integrations
APPROVED

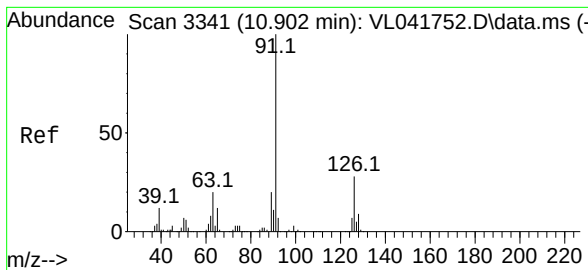
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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





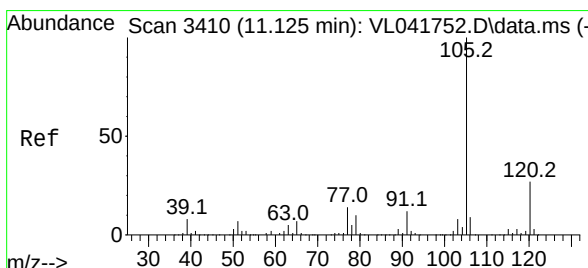
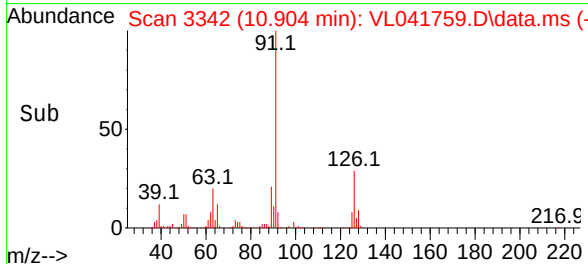
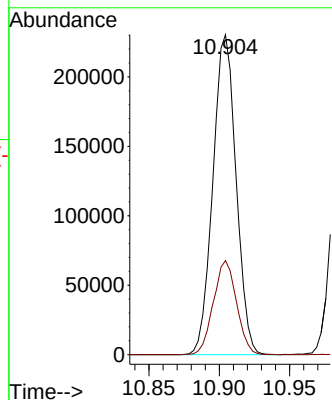
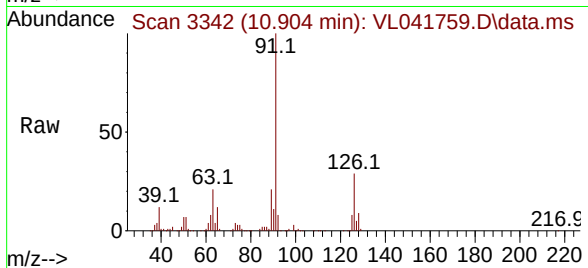
#71
2-Chlorotoluene
Concen: 10.340 ppbv
RT: 10.904 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Tgt Ion: 91 Resp: 26412
Ion Ratio Lower Upper
91 100
126 29.4 11.6 46.4

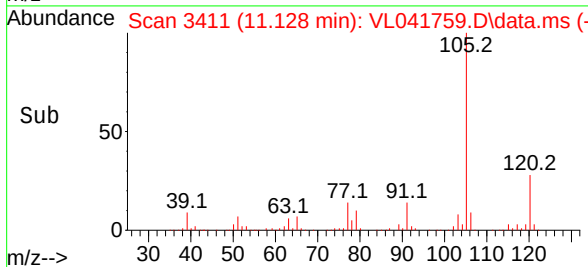
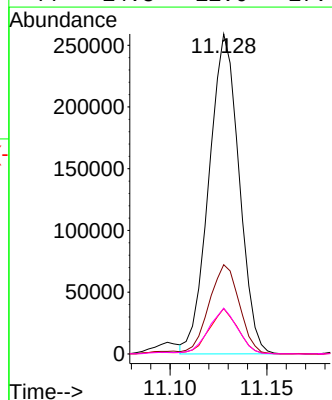
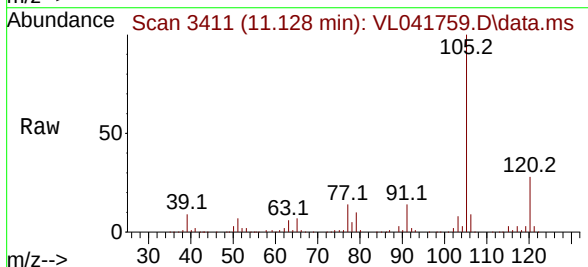
Manual Integrations
APPROVED

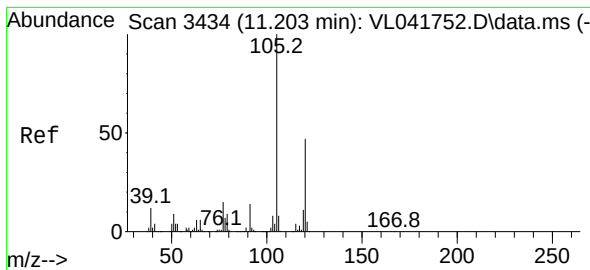
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#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

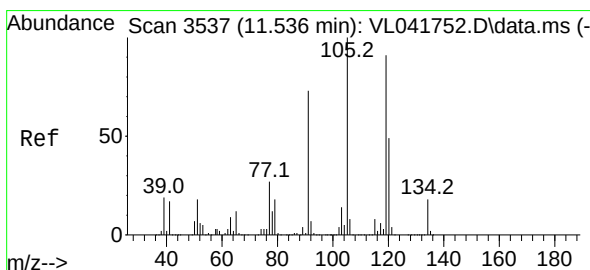
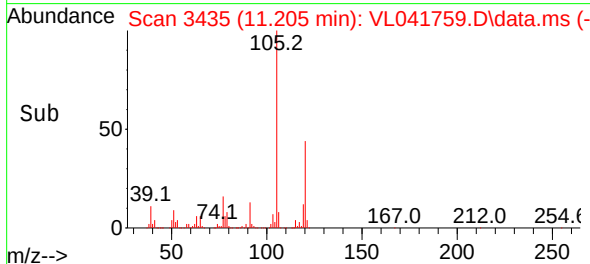
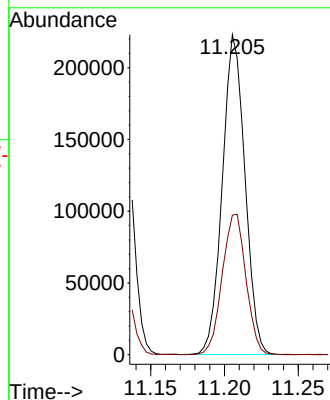
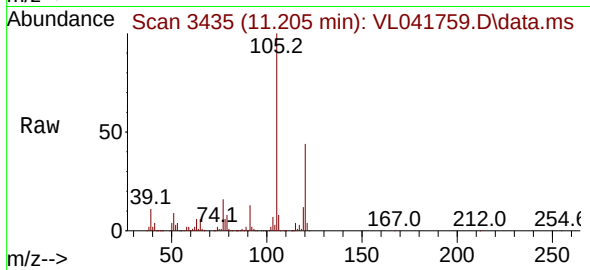
120 43.6 37.4 56.2

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

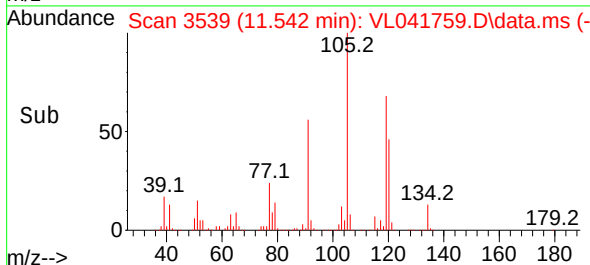
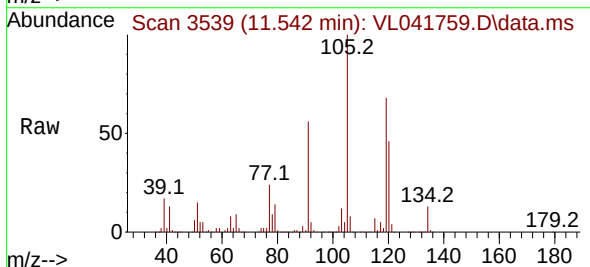
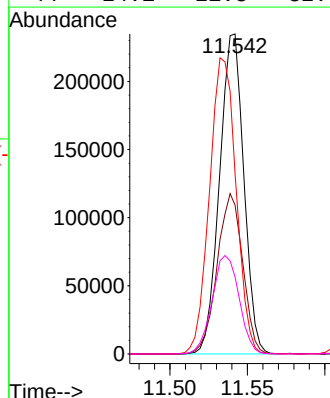
Ion Ratio Lower Upper

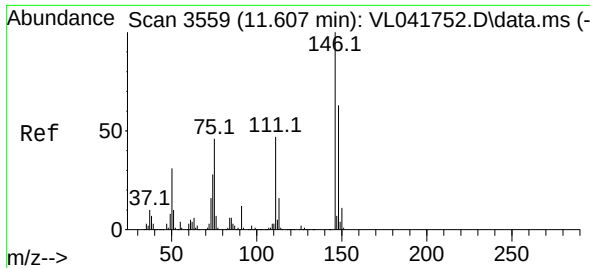
105 100

120 46.5 39.0 58.4

91 56.2 58.1 87.1#

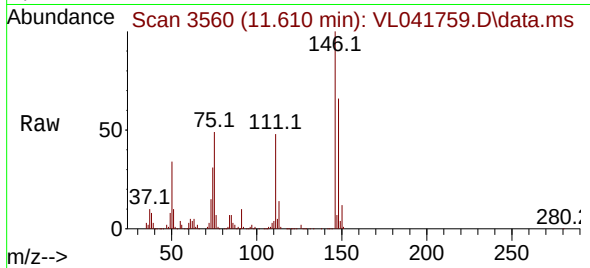
77 24.1 21.8 32.8





#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

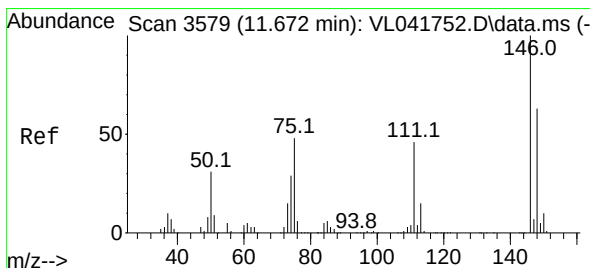
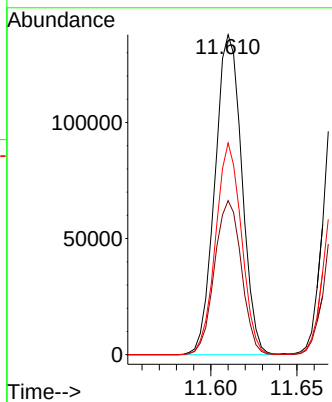
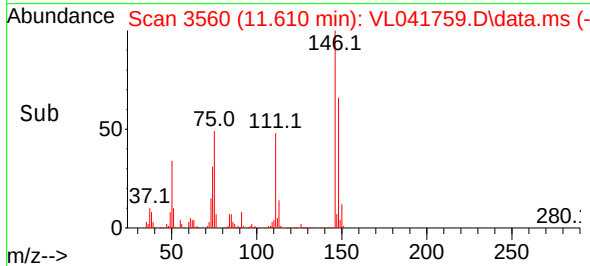
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624



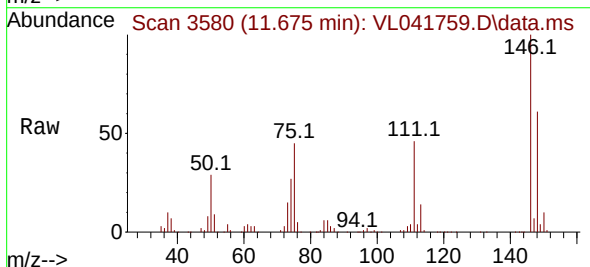
Tgt Ion:146 Resp: 14992
Ion Ratio Lower Upper
146 100
111 48.2 23.4 70.3
148 63.5 31.6 95.0

Manual Integrations
APPROVED

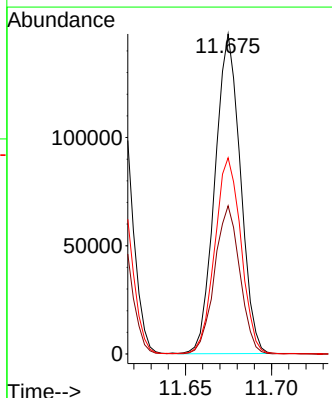
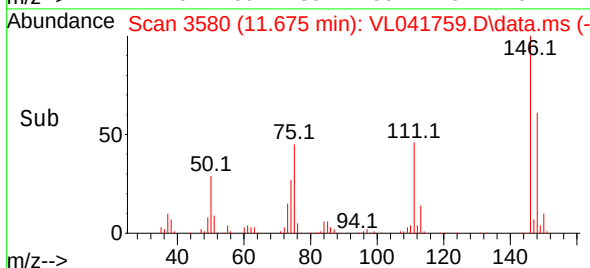
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

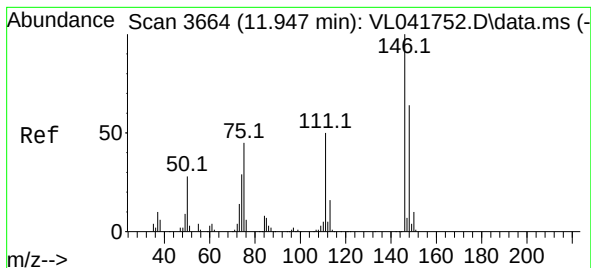


#76
1,4-Dichlorobenzene
Concen: 10.302 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59



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 :

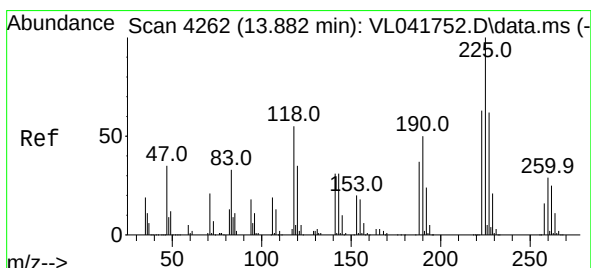
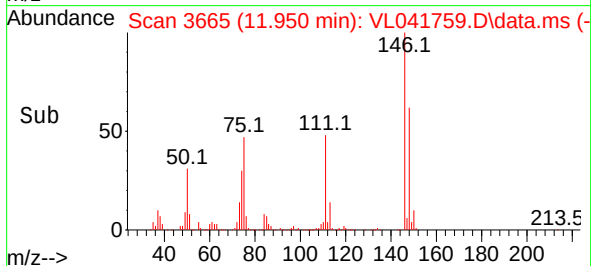
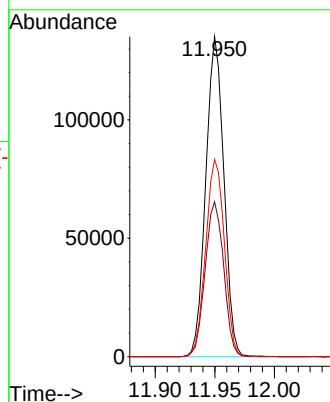
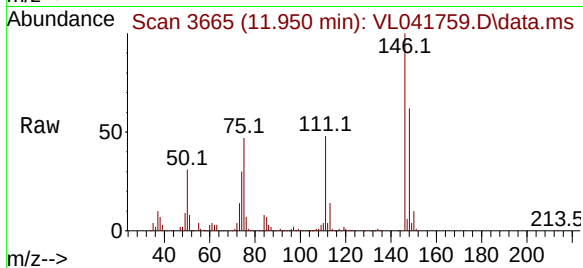
ICVVL121624

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

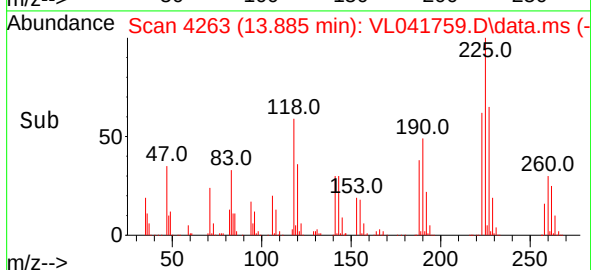
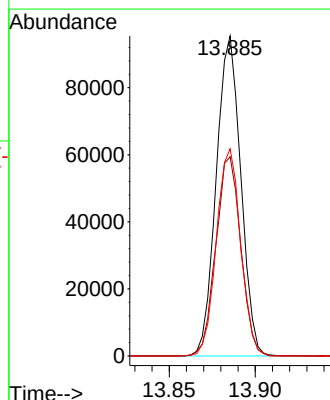
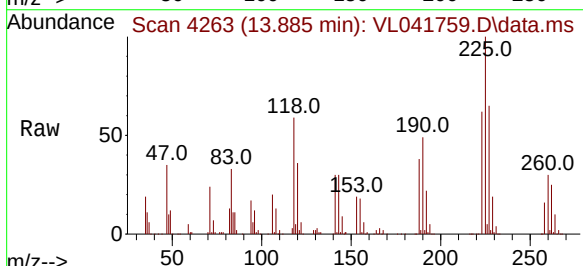
RT: 13.885 min Scan# 4263

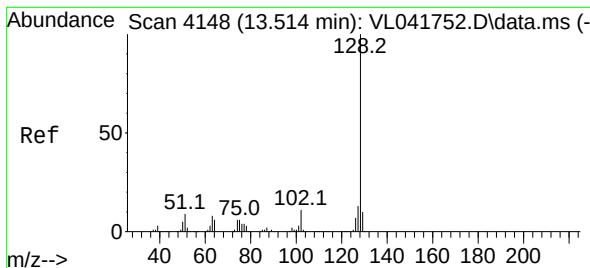
Delta R.T. 0.003 min

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

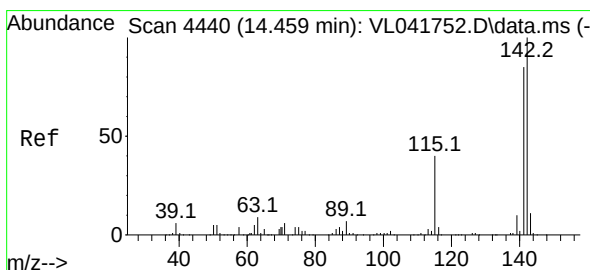
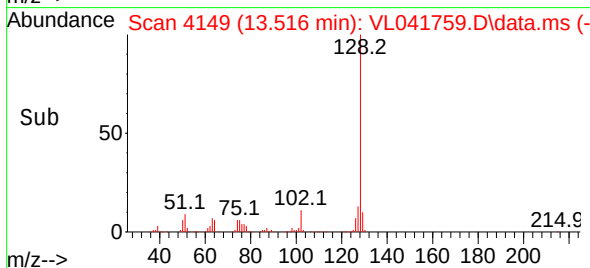
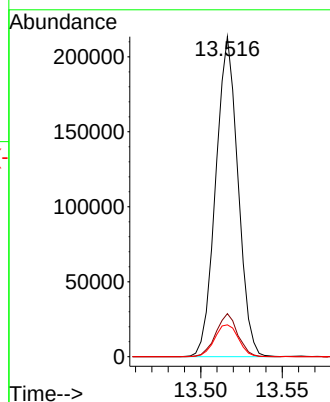
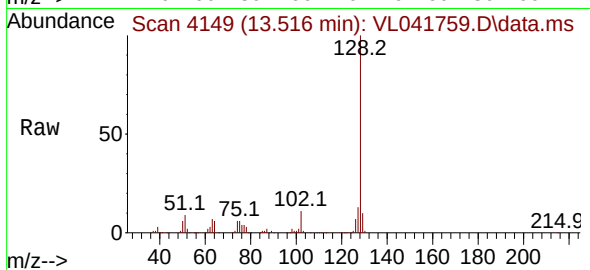
129 10.0 8.2 12.4

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

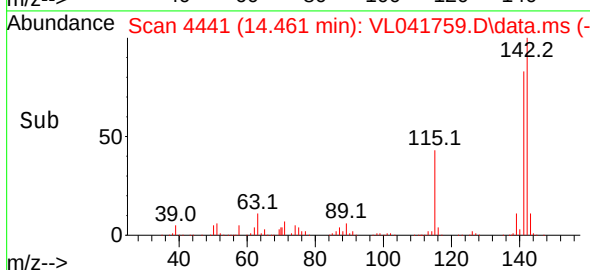
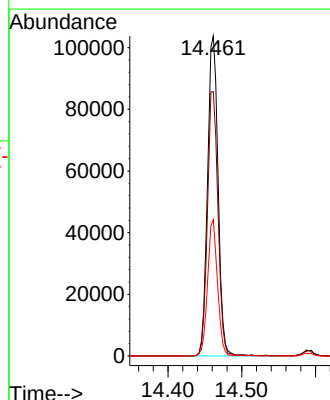
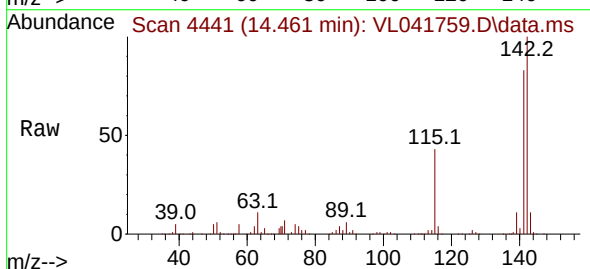
Tgt Ion:142 Resp: 102431

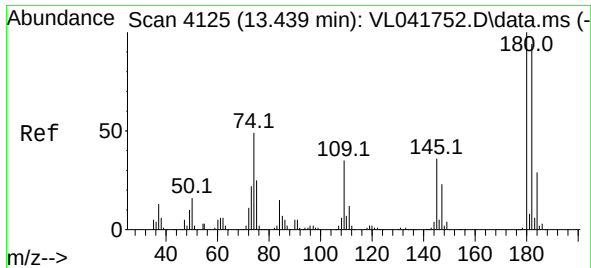
Ion Ratio Lower Upper

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

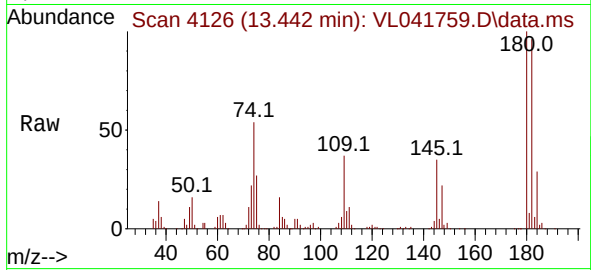
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624



Tgt Ion:180 Resp: 98468

Ion Ratio Lower Upper

180 100

182 95.3 77.0 115.6

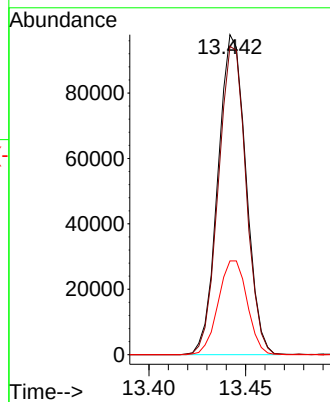
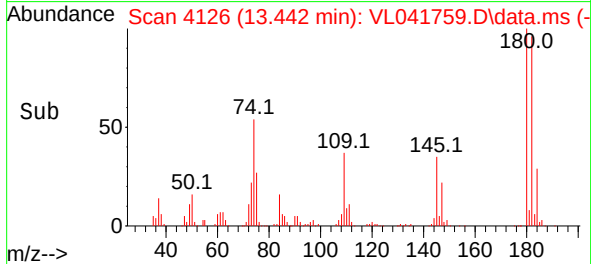
184 30.2 23.8 35.8

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

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 17 04:07:27 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 : Tue Dec 17 04:02:07 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	95	0.00
2 T	Dichlorodifluoromethane	10.000	9.236	7.6	93	0.00
3	Chlorodifluoromethane	10.000	9.922	0.8	98	0.00
4	Chloromethane	10.000	9.596	4.0	100	0.00
5 T	Vinyl Chloride	10.000	8.986	10.1	96	0.00
6 T	Bromomethane	10.000	9.109	8.9	97	0.00
7	Chloroethane	10.000	9.803	2.0	100	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.650	3.5	100	0.00
9 T	Propene	10.000	9.084	9.2	96	0.00
10 T	Heptane	10.000	9.816	1.8	99	0.00
11 T	Trichlorofluoromethane	10.000	9.428	5.7	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.450	5.5	96	0.00
13	Ethanol	10.000	7.199	28.0	111	0.00
14 T	Bromoethene	10.000	9.987	0.1	97	0.00
15 T	Acetone	10.000	7.505	24.9	95	0.00
16 T	1,3-Butadiene	10.000	9.063	9.4	96	0.00
17	tert-Butyl alcohol	10.000	9.730	2.7	97	0.00
18 T	1,1-Dichloroethene	10.000	9.568	4.3	97	0.00
19 T	Isopropyl Alcohol	10.000	7.590	24.1	98	0.00
20 T	Methylene Chloride	10.000	8.967	10.3	99	0.00
21 T	Allyl Chloride	10.000	9.859	1.4	97	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.515	4.8	97	0.00
23 T	Vinyl Acetate	10.000	9.432	5.7	96	0.00
24 T	1,1-Dichloroethane	10.000	9.589	4.1	97	0.00
25 T	Ethyl Acetate	10.000	9.816	1.8	99	0.00
26 T	Hexane	10.000	9.752	2.5	97	0.00
27 T	Carbon Disulfide	10.000	10.649	-6.5	93	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.589	14.1	83	0.00
29 T	Chloroform	10.000	9.892	1.1	100	0.00
30 T	Cyclohexane	10.000	9.912	0.9	100	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.935	0.6	100	0.00
32 T	1,1,1-Trichloroethane	10.000	10.192	-1.9	99	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	95	0.00
34 T	2-Butanone	10.000	9.547	4.5	99	0.00
35 T	Carbon Tetrachloride	10.000	11.191	-11.9	100	0.00
36 T	Benzene	10.000	9.787	2.1	99	0.00
37 T	1,2-Dichloroethane	10.000	9.982	0.2	100	0.00
38 T	Trichloroethene	10.000	9.231	7.7	98	0.00
39 T	1,2-Dichloropropane	10.000	9.761	2.4	98	0.00
40 T	1,4-Dioxane	10.000	9.693	3.1	101	0.00
41 T	Tetrahydrofuran	10.000	9.857	1.4	99	0.00
42 T	Bromodichloromethane	10.000	10.820	-8.2	98	0.00
43	Methyl Methacrylate	10.000	10.229	-2.3	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.796	2.0	98	0.00
45 T	t-1,3-Dichloropropene	10.000	10.907	-9.1	100	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.617	-6.2	98	0.00
47 T	1,1,2-Trichloroethane	10.000	9.709	2.9	98	0.00
48 T	Dibromochloromethane	10.000	11.326	-13.3	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 :
 ICSV121624

Quant Time: Dec 17 04:07:27 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 : Tue Dec 17 04:02:07 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	11.682	-16.8	97	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.980	0.2	98	0.00
51 T	2-Hexanone	10.000	10.053	-0.5	99	0.00
52 T	Tetrachloroethene	10.000	9.351	6.5	100	0.00
53 T	Toluene	10.000	9.768	2.3	97	0.00
54 T	1,2-Dibromoethane	10.000	9.952	0.5	99	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.557	-5.6	99	0.00
57 T	Chlorobenzene	10.000	9.888	1.1	100	0.00
58 T	Ethyl Benzene	10.000	10.308	-3.1	98	0.00
59 T	m/p-Xylene	20.000	20.645	-3.2	99	0.00
60 T	o-Xylene	10.000	10.304	-3.0	99	0.00
61 T	Styrene	10.000	11.093	-10.9	97	0.00
62	Isopropylbenzene	10.000	10.425	-4.3	100	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.865	1.3	100	0.00
64	n-propylbenzene	10.000	10.384	-3.8	101	0.00
65	tert-Butylbenzene	10.000	10.194	-1.9	100	0.00
66 T	Benzyl Chloride	10.000	10.340	-3.4	100	0.00
67	sec-Butylbenzene	10.000	10.304	-3.0	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.166	-1.7	94	0.00
69	p-Isopropyltoluene	10.000	10.620	-6.2	101	0.00
70	n-Butylbenzene	10.000	10.727	-7.3	99	0.00
71	2-Chlorotoluene	10.000	10.340	-3.4	100	0.00
72 T	4-Ethyltoluene	10.000	10.672	-6.7	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.902	-9.0	99	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.919	-9.2	100	0.00
75 T	1,3-Dichlorobenzene	10.000	10.025	-0.3	99	0.00
76 T	1,4-Dichlorobenzene	10.000	10.302	-3.0	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.919	0.8	101	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.873	11.3	99	0.00
79 T	Naphthalene	10.000	12.384	-23.8	98	0.00
80 T	Naphthalene,2-methyl-	10.000	20.261	-102.6#	96	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.025	-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.: P5294 SAS No.: P5294 SDG No.: P5294

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.: P5294 SAS No.: P5294 SDG No.: P5294

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
 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)
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

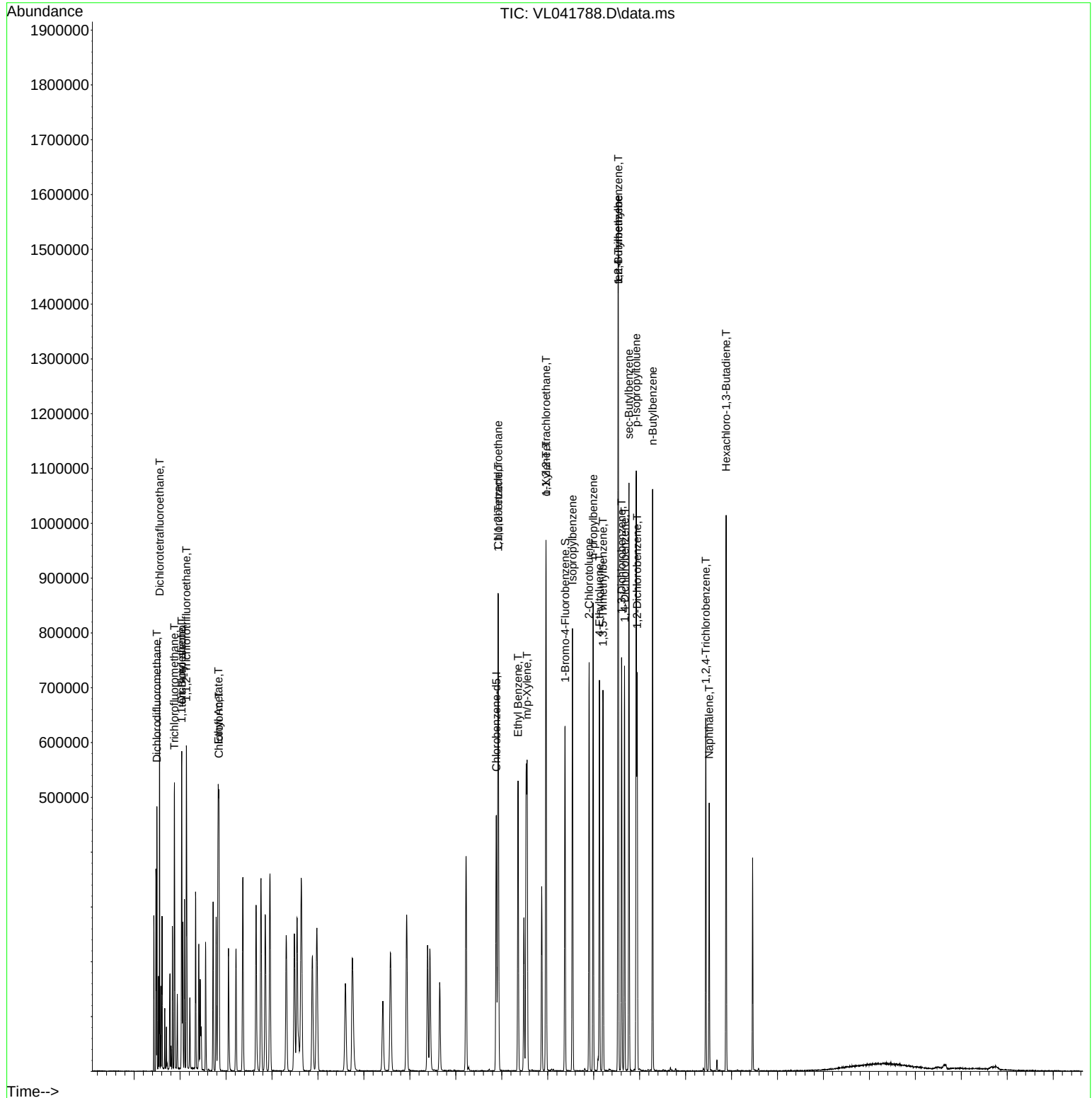
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041788.D
Acq On : 18 Dec 2024 10:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

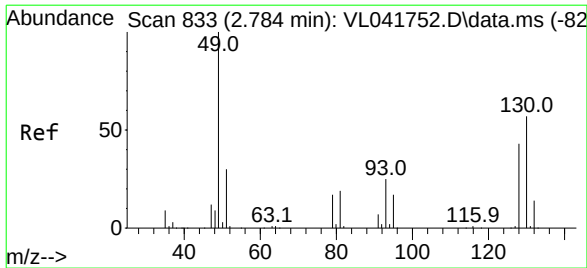
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





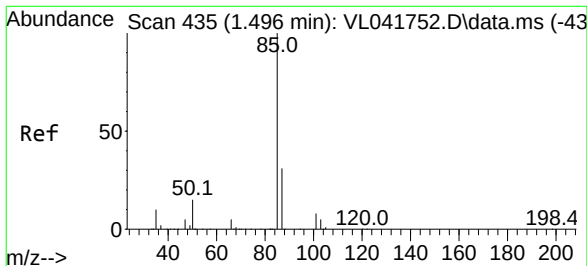
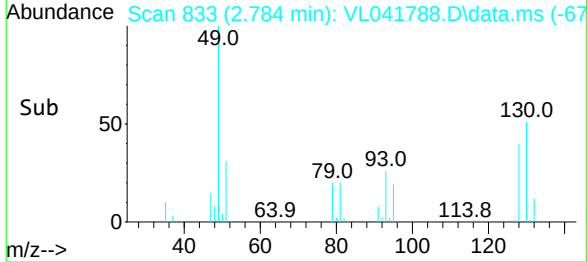
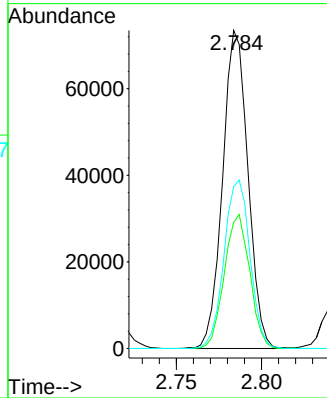
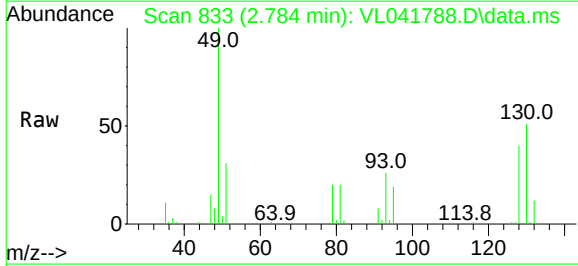
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

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

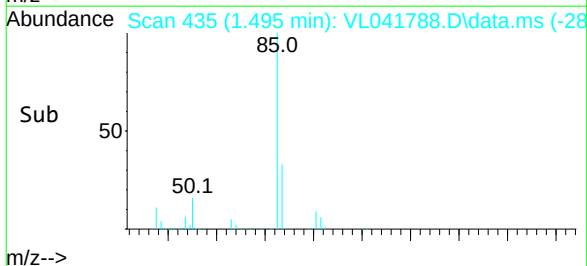
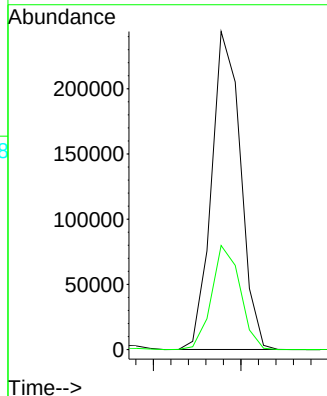
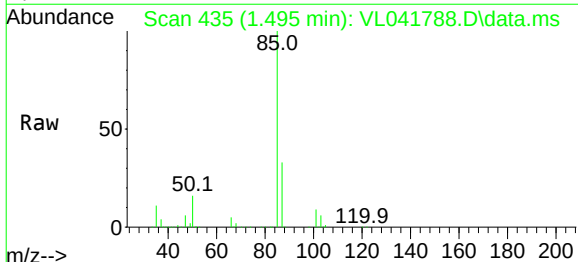
Manual Integrations
APPROVED

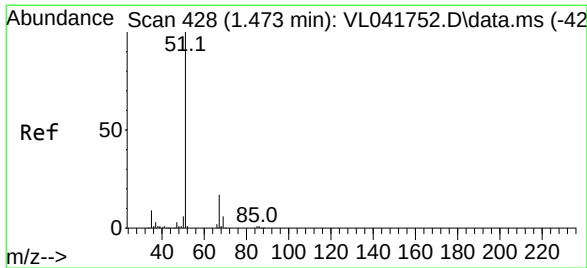
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

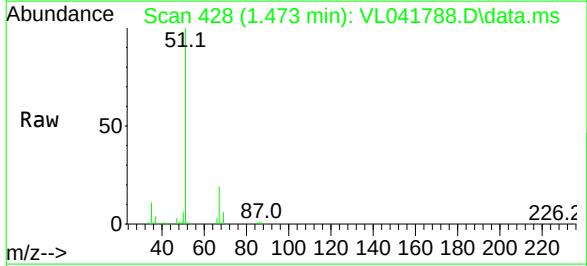
Tgt Ion: 85 Resp: 112841
Ion Ratio Lower Upper
85 100
87 32.7 24.5 36.7





#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

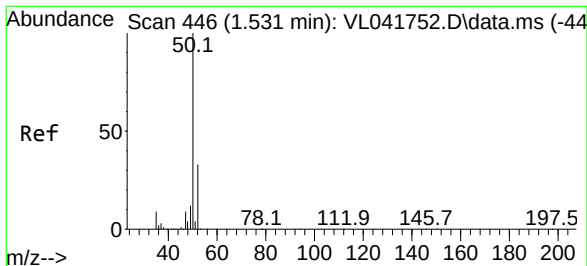
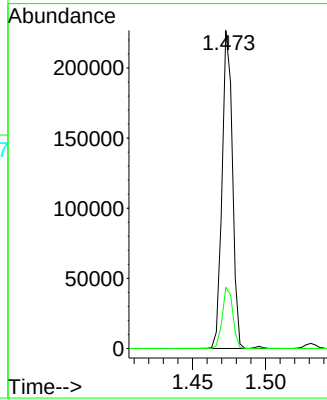
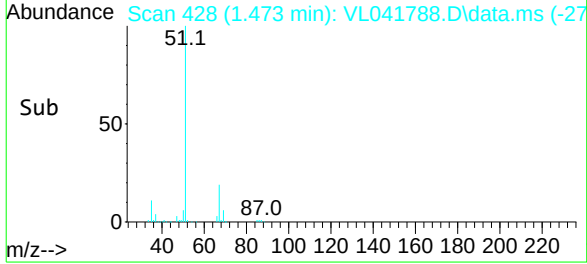
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 51 Resp: 112096
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.4

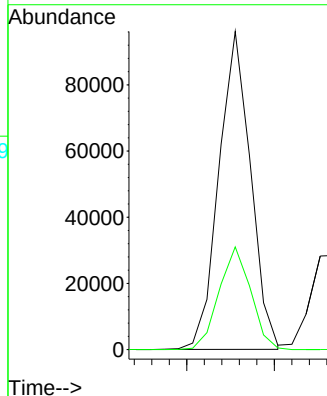
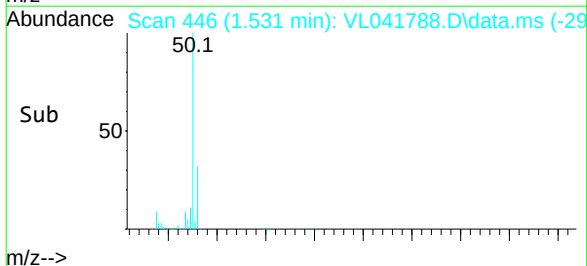
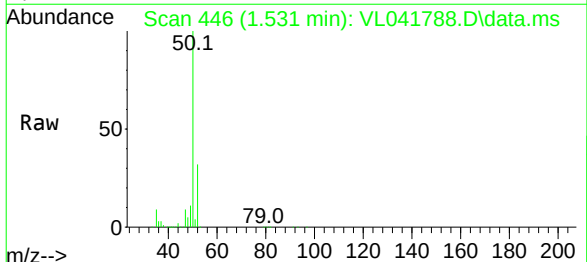
Manual Integrations
APPROVED

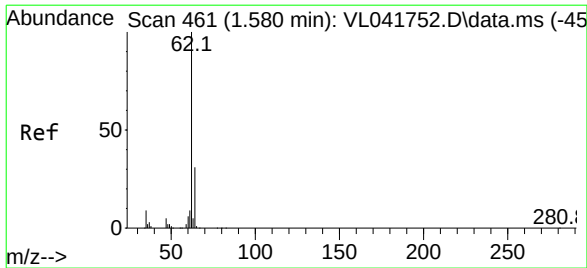
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

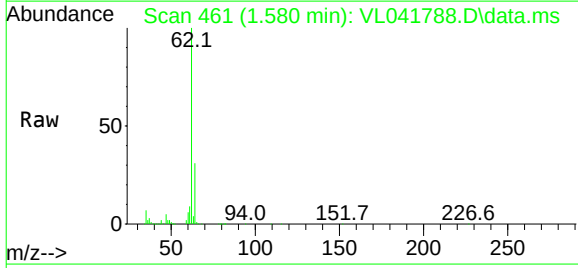
Tgt Ion: 50 Resp: 48418
Ion Ratio Lower Upper
50 100
52 32.3 26.2 39.2





#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

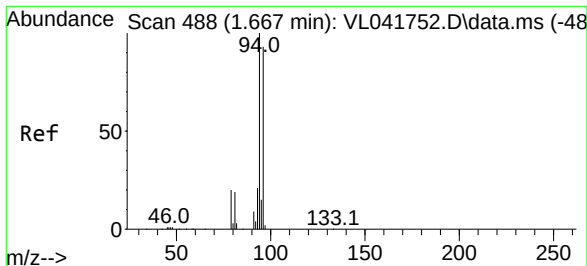
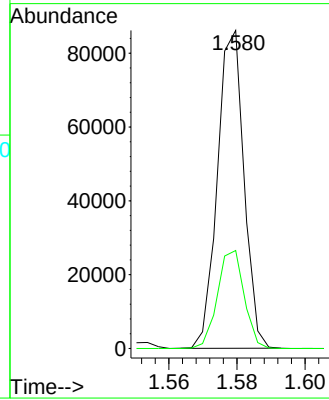
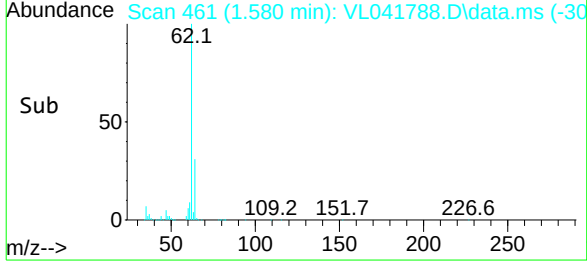
Instrument : MSVOA_1
 ClientSampleId : VSTDCCC010



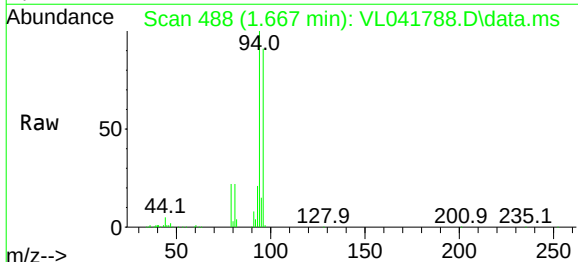
Tgt Ion: 62 Resp: 46631
 Ion Ratio Lower Upper
 62 100
 64 30.8 25.1 37.7

Manual Integrations
 APPROVED

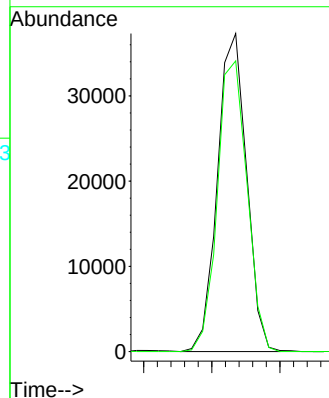
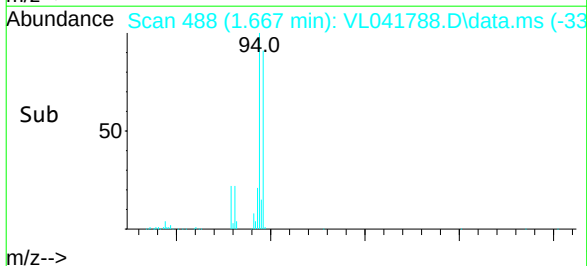
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

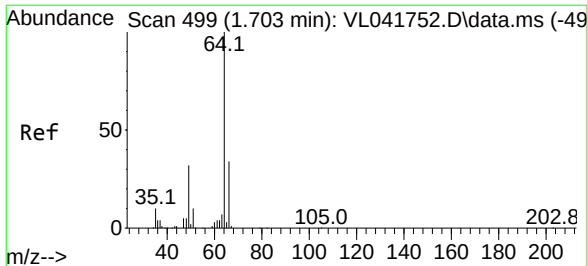


#6
 Bromomethane
 Concen: 8.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29



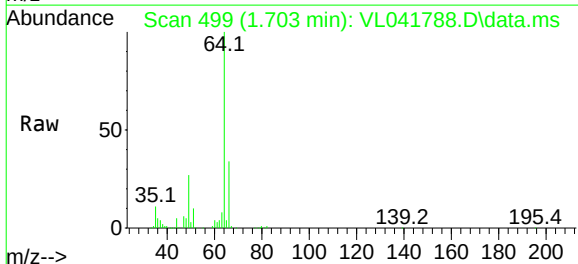
Tgt Ion: 94 Resp: 22202
 Ion Ratio Lower Upper
 94 100
 96 91.4 74.7 112.1





#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

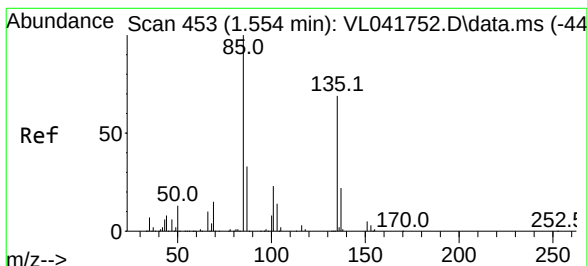
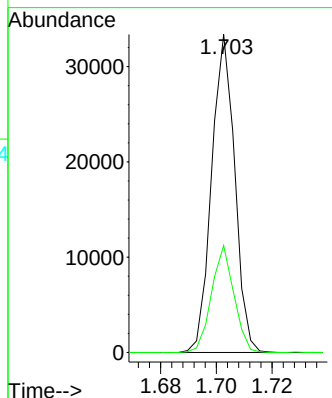
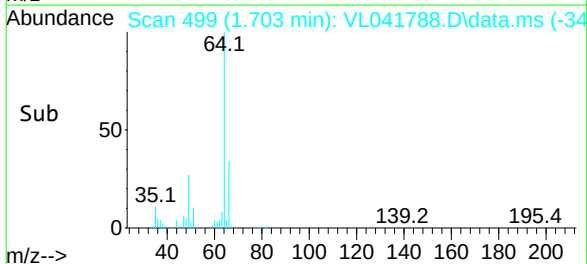
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 64 Resp: 19203
Ion Ratio Lower Upper
64 100
66 33.6 27.5 41.3

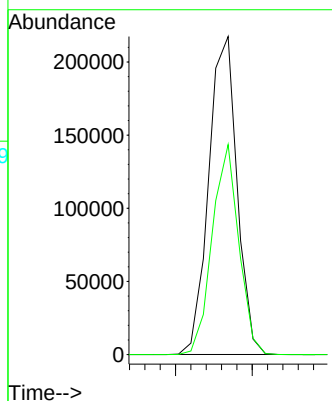
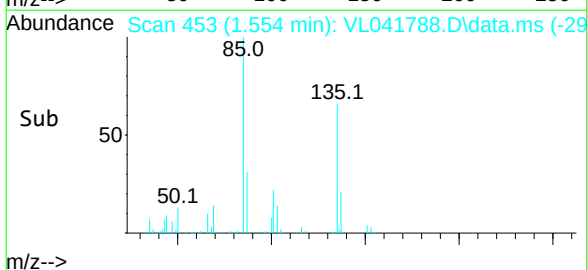
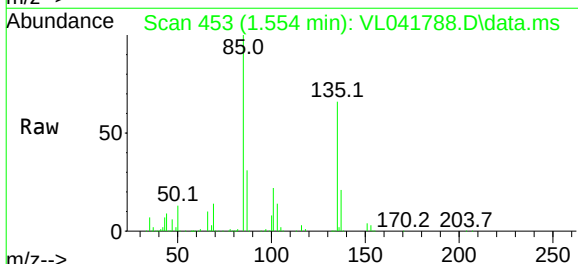
Manual Integrations
APPROVED

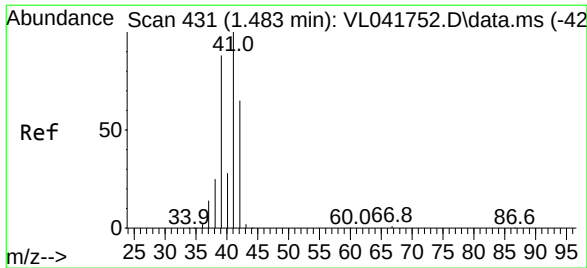
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

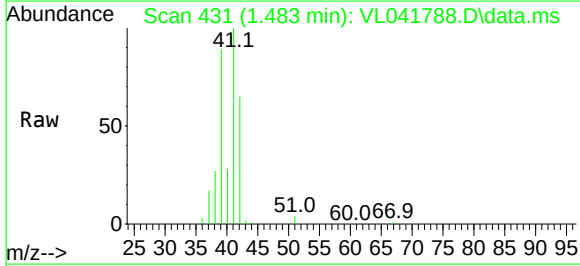
Tgt Ion: 85 Resp: 111653
Ion Ratio Lower Upper
85 100
135 62.0 51.9 77.9





#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

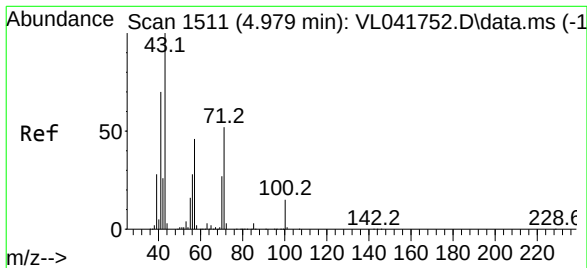
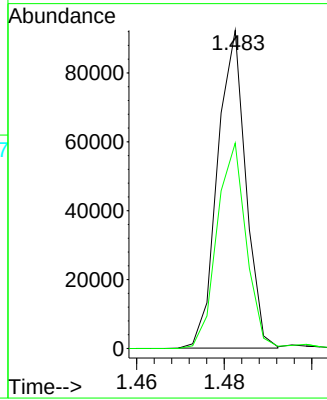
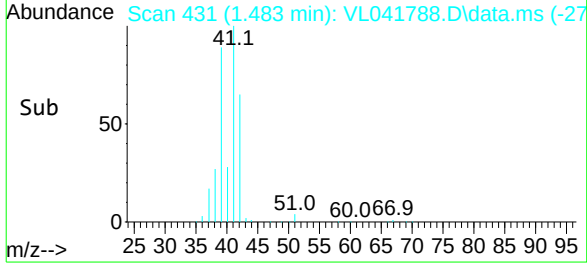
Instrument : MSVOA_L
 ClientSampleId : VSTDCCC010



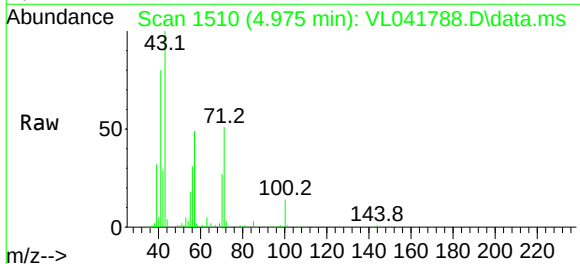
Tgt Ion: 41 Resp: 41427
 Ion Ratio Lower Upper
 41 100
 42 68.5 52.4 78.6

Manual Integrations
 APPROVED

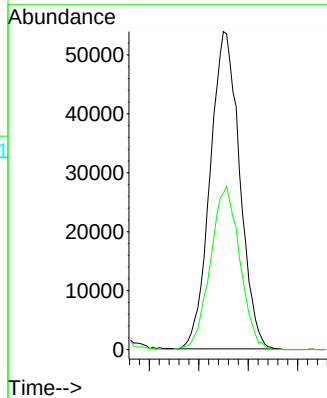
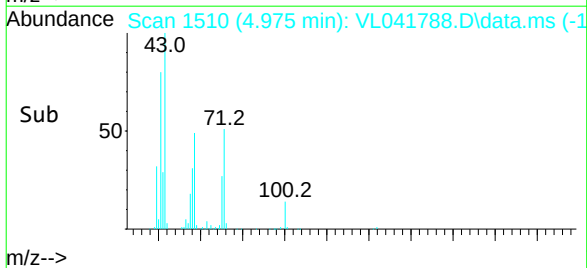
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

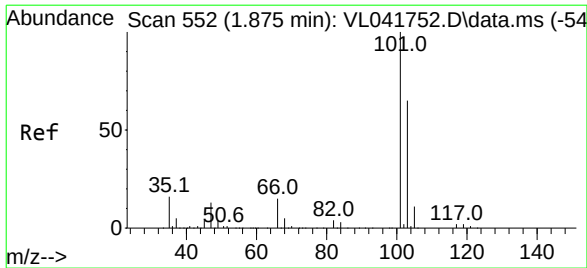


#10
 Heptane
 Concen: 8.087 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. -0.004 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29



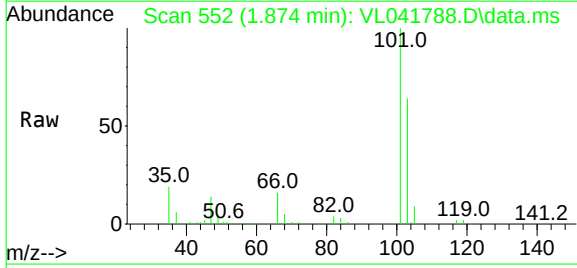
Tgt Ion: 43 Resp: 111650
 Ion Ratio Lower Upper
 43 100
 57 51.1 38.5 57.7





#11
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

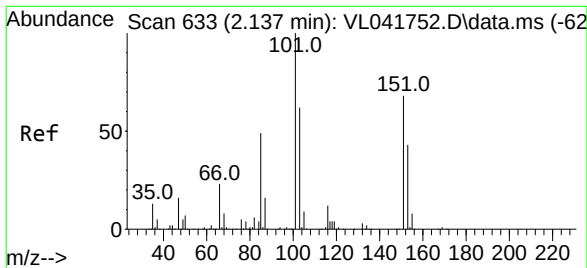
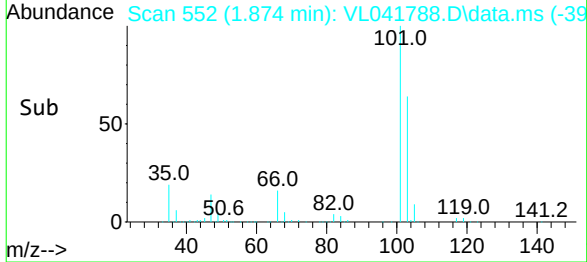
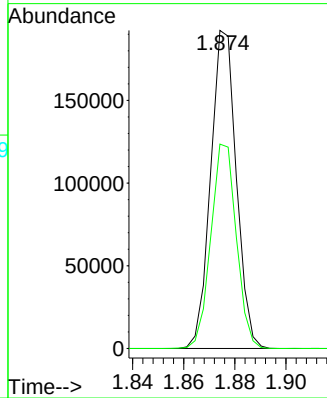
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:101 Resp: 134331
Ion Ratio Lower Upper
101 100
103 64.3 51.8 77.8

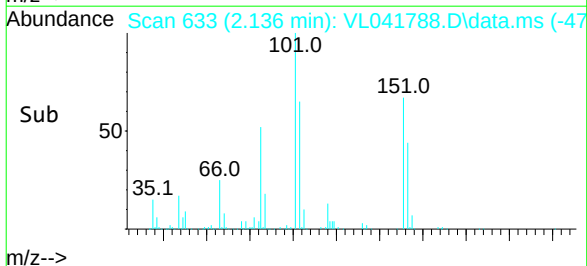
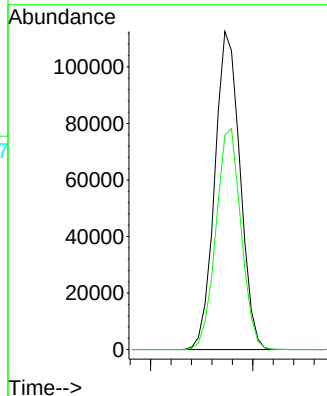
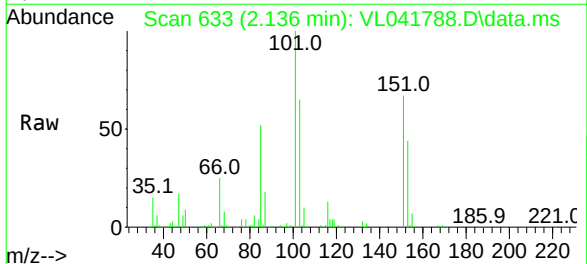
Manual Integrations
APPROVED

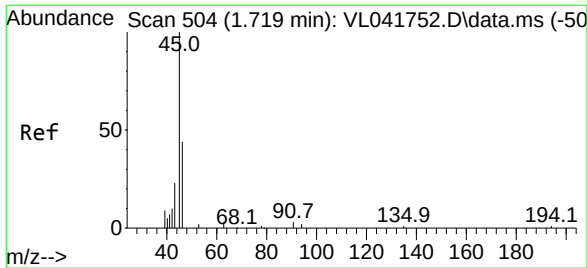
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

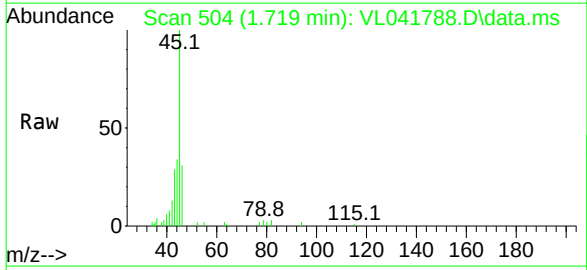
Tgt Ion:101 Resp: 96469
Ion Ratio Lower Upper
101 100
151 69.2 56.8 85.2





#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

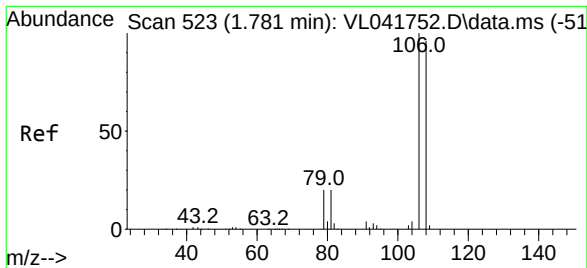
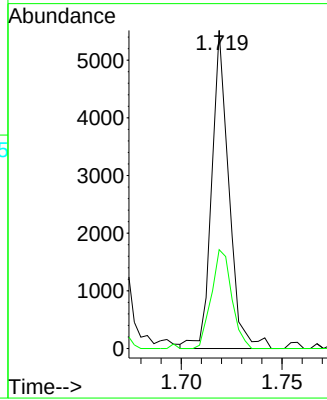
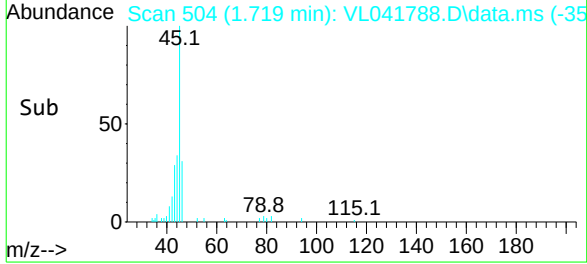
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 45 Resp: 3276
Ion Ratio Lower Upper
45 100
46 37.1 16.4 65.8

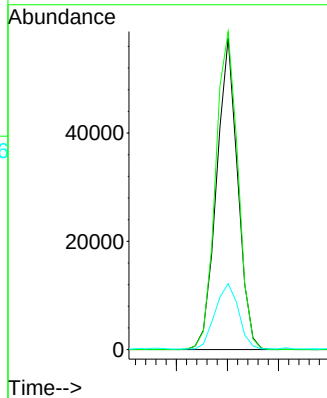
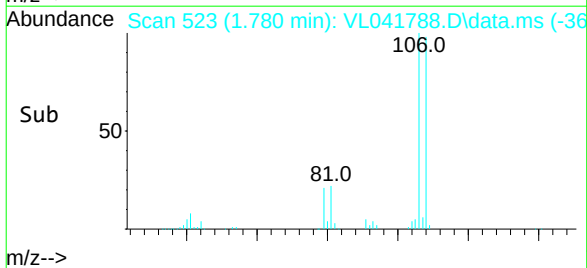
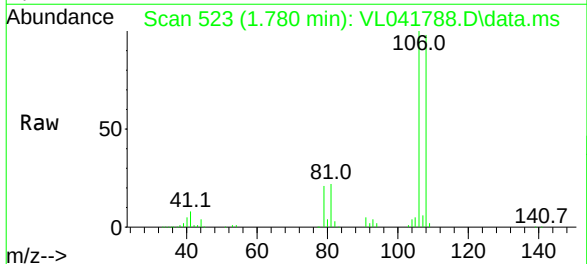
Manual Integrations
APPROVED

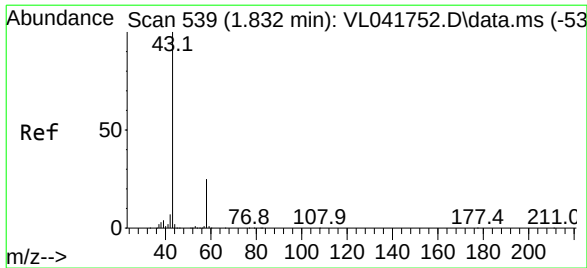
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

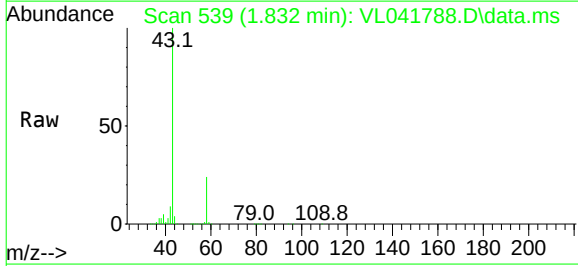
Tgt Ion:108 Resp: 33118
Ion Ratio Lower Upper
108 100
106 107.8 84.1 126.1
79 24.4 17.4 26.0





#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

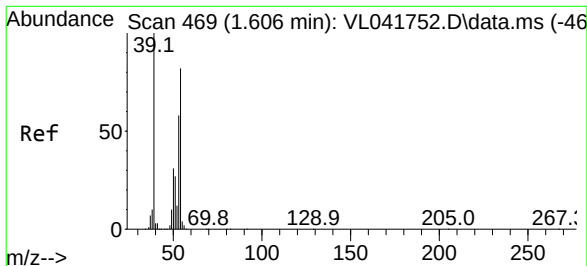
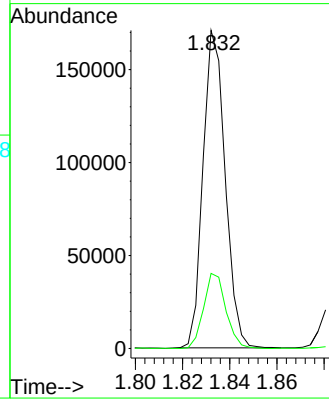
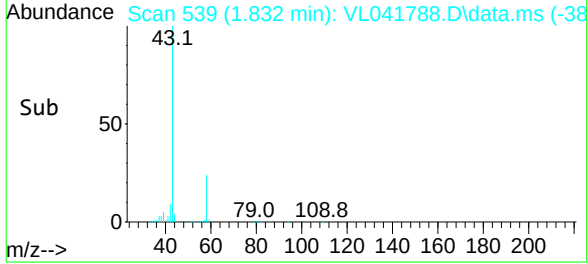
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 43 Resp: 111294
Ion Ratio Lower Upper
43 100
58 24.0 19.7 29.5

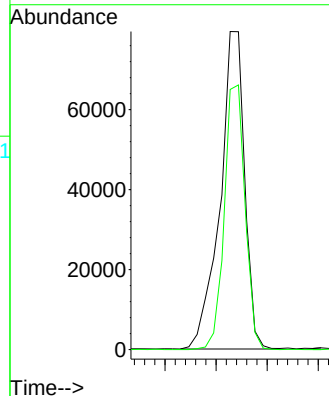
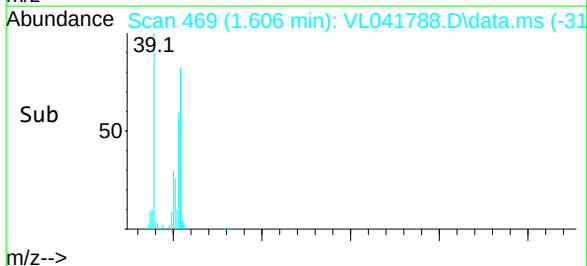
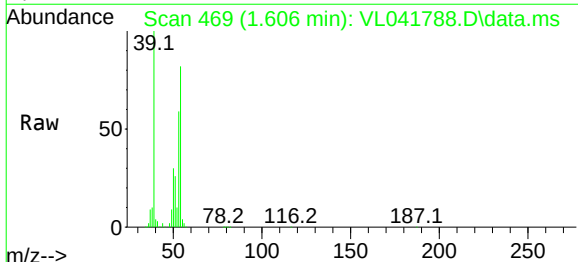
Manual Integrations
APPROVED

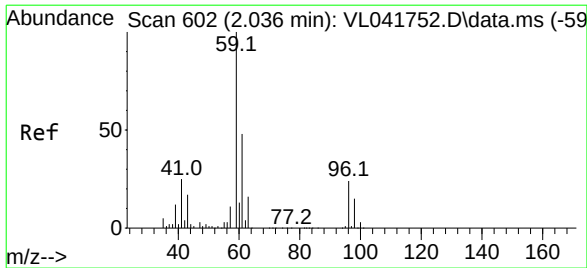
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





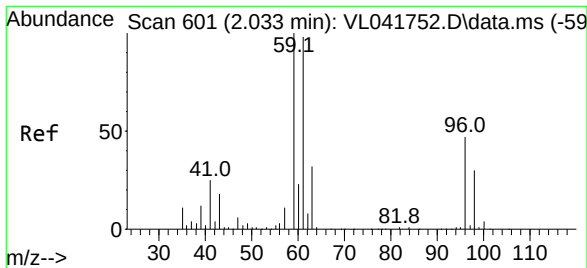
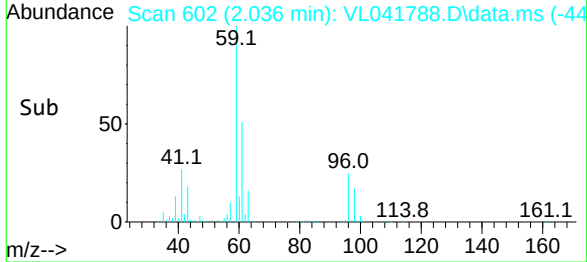
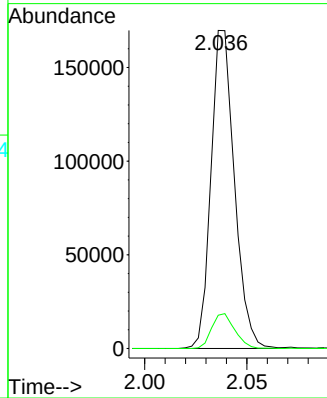
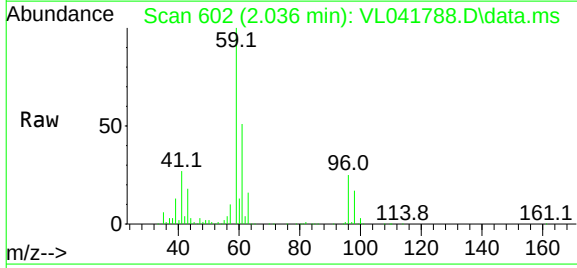
#17
tert-Butyl alcohol
Concen: 9.233 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 135516
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0

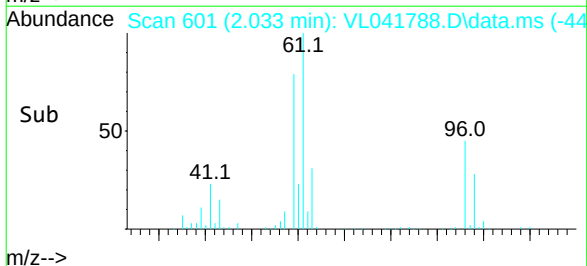
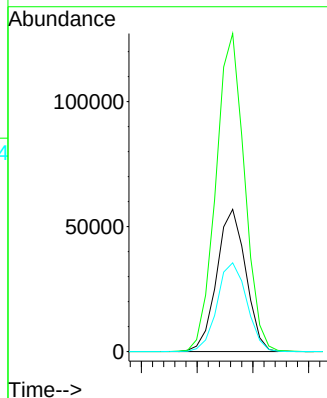
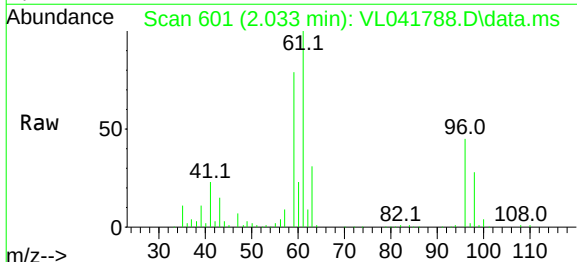
Manual Integrations
APPROVED

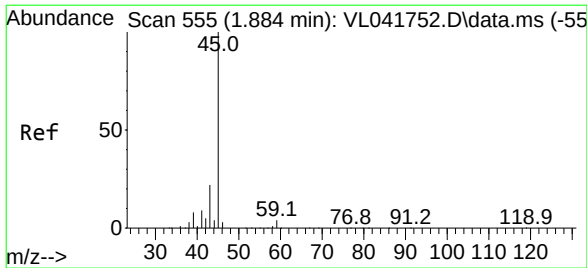
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





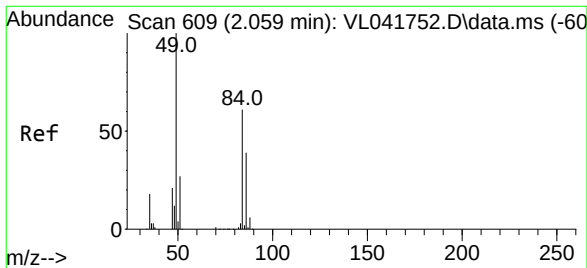
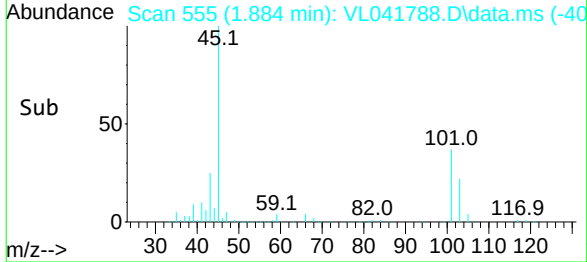
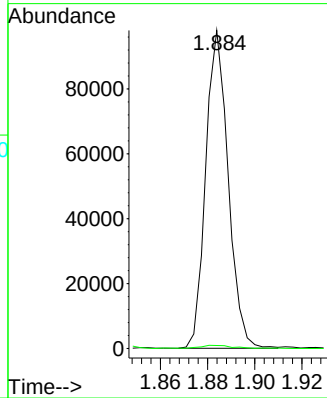
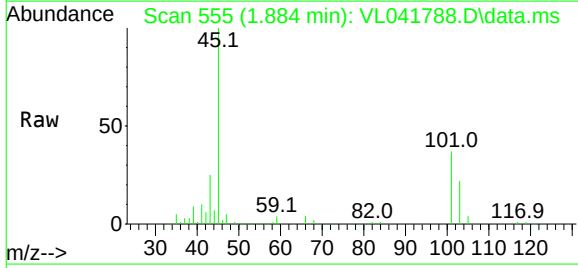
#19
Isopropyl Alcohol
Concen: 7.303 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 64831
Ion Ratio Lower Upper
45 100
58 41.3 33.3 49.9

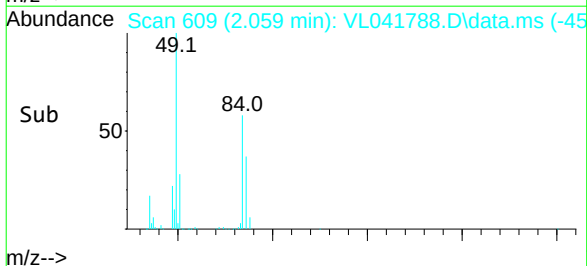
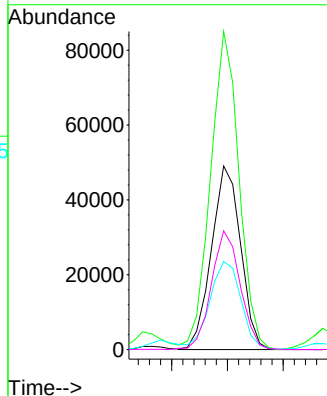
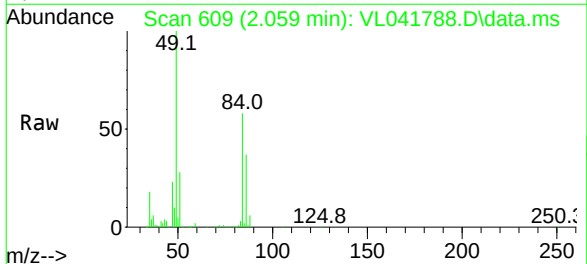
Manual Integrations
APPROVED

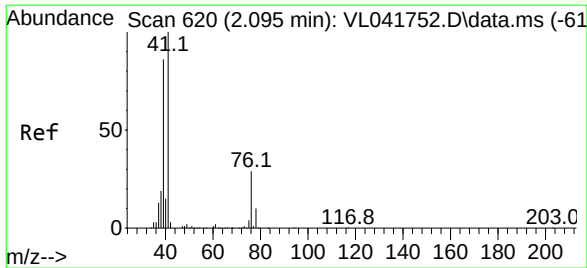
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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 :

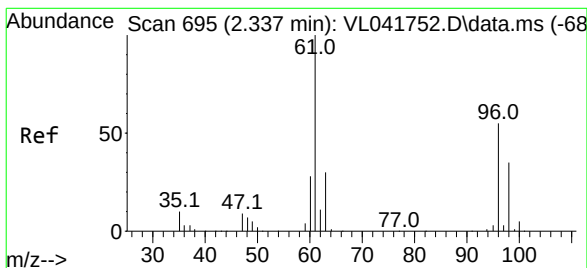
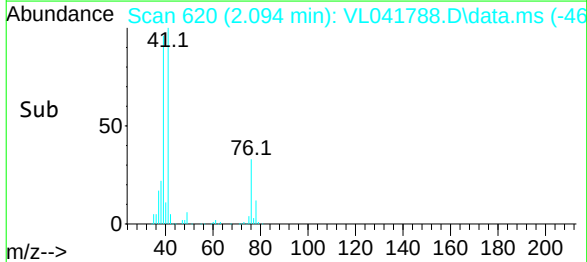
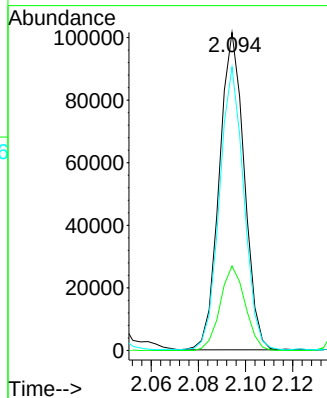
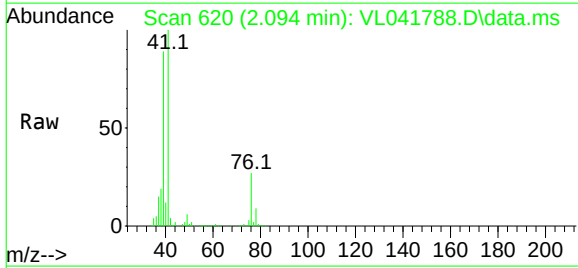
VSTDCCC010

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

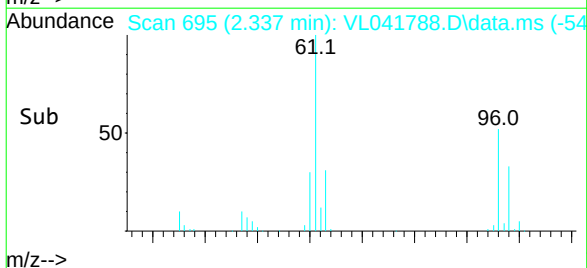
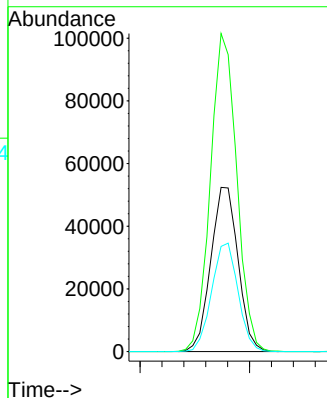
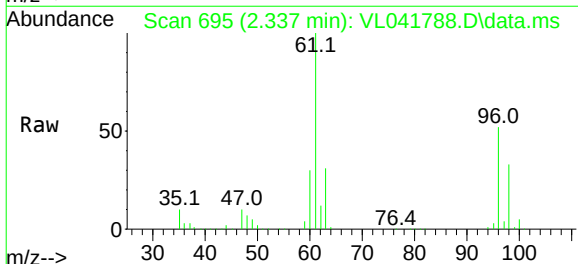
RT: 2.337 min Scan# 695

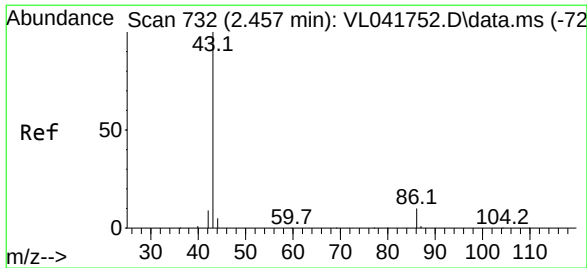
Delta R.T. -0.000 min

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





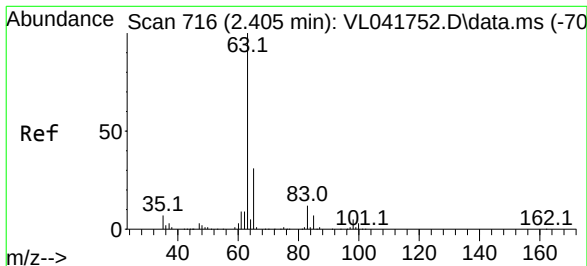
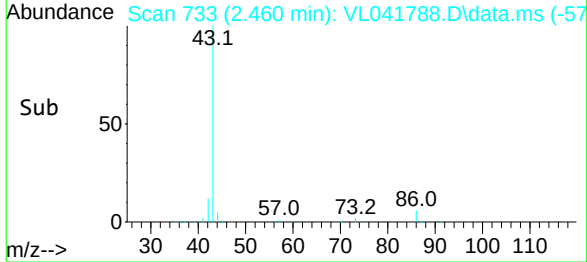
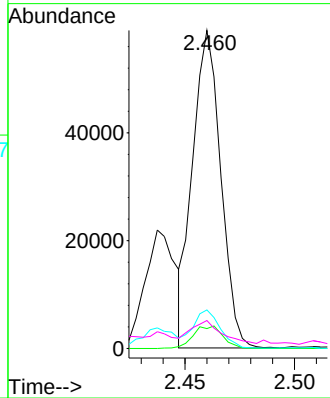
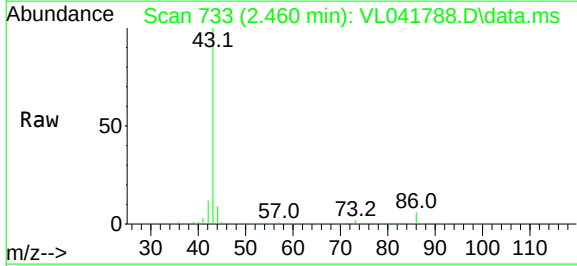
#23
 Vinyl Acetate
 Concen: 7.673 ppbv
 RT: 2.460 min Scan# 732
 Delta R.T. 0.003 min
 Lab File: VL041788.D
 Acq: 18 Dec 2024 10:29

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

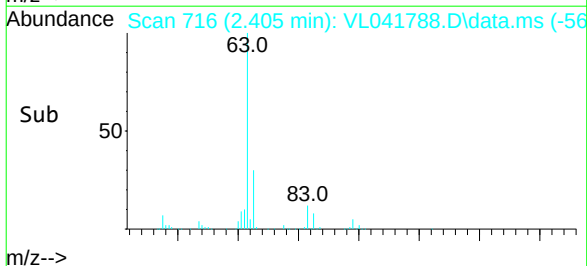
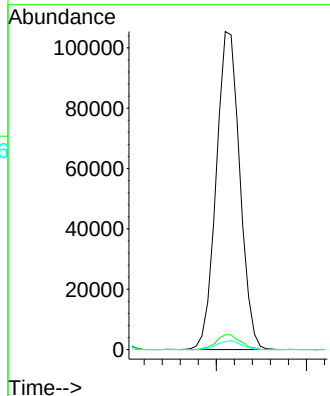
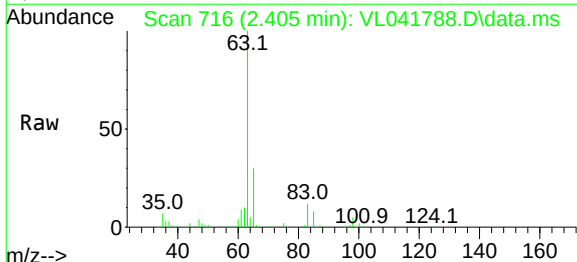
Manual Integrations
 APPROVED

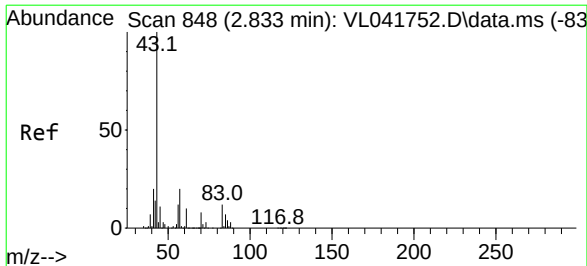
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#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

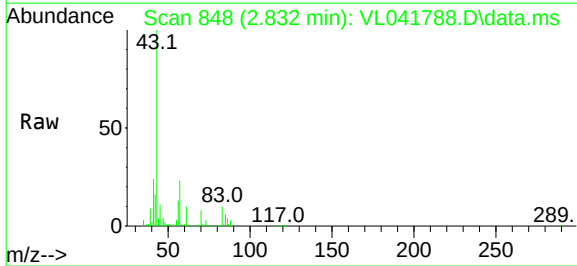
Tgt Ion:	63	Resp:	95779
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	2.5	1.4	4.2





#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

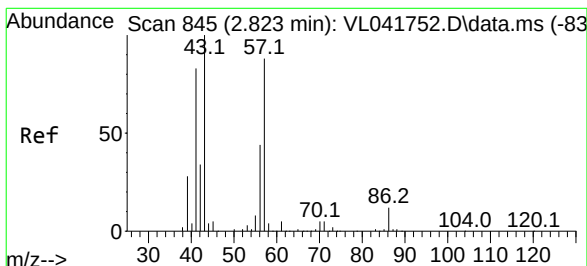
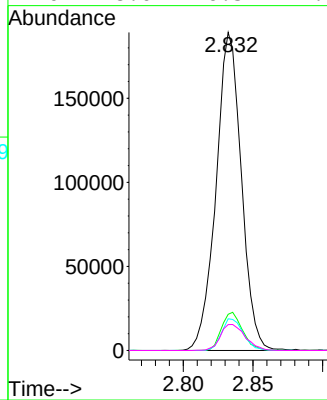
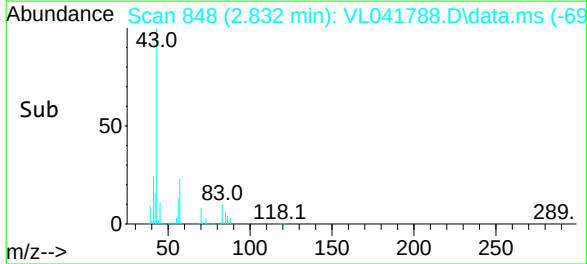
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

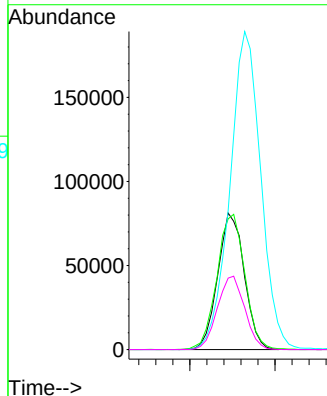
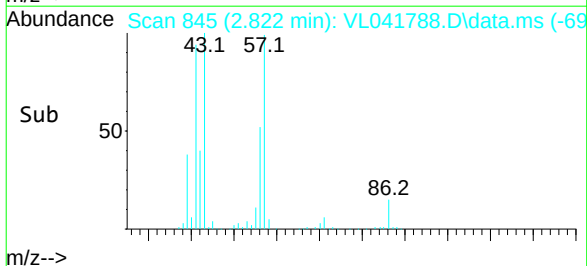
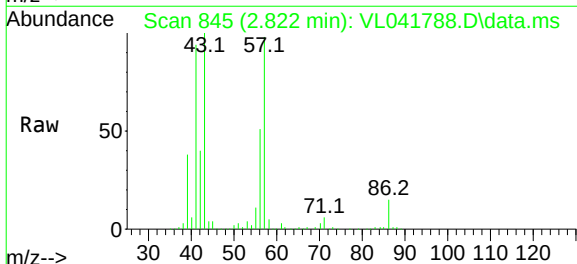
Manual Integrations
APPROVED

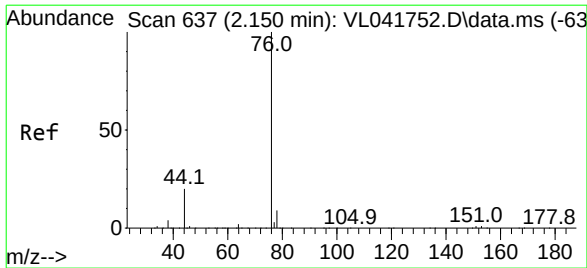
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

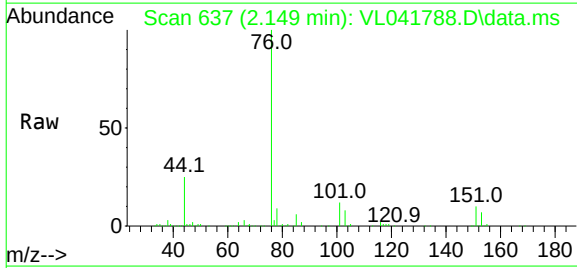
Tgt Ion	Ratio	Lower	Upper
57	100		
41	104.9	79.6	119.4
43	273.5	211.0	316.6
56	55.5	42.6	63.8





#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

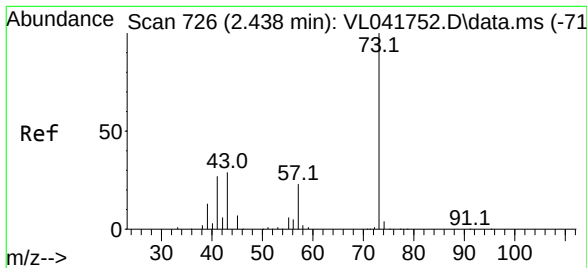
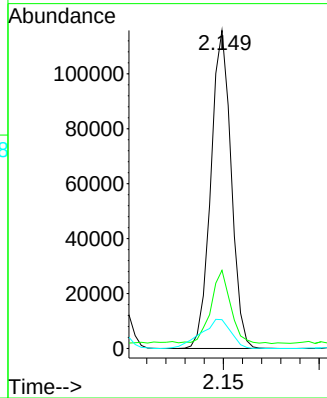
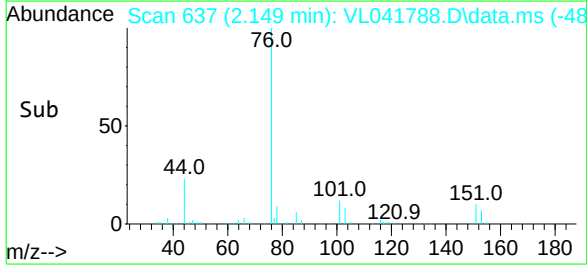
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



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

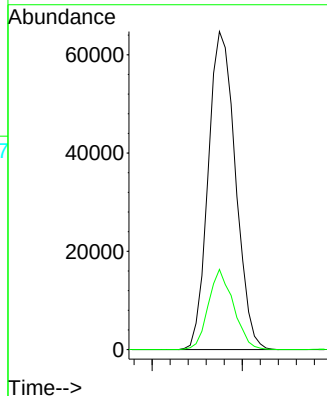
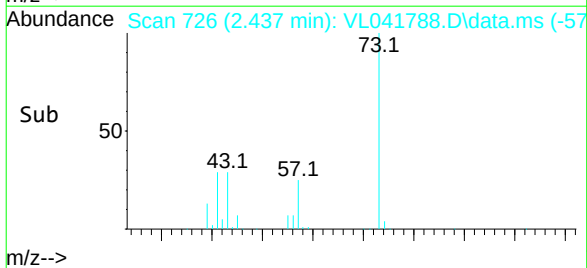
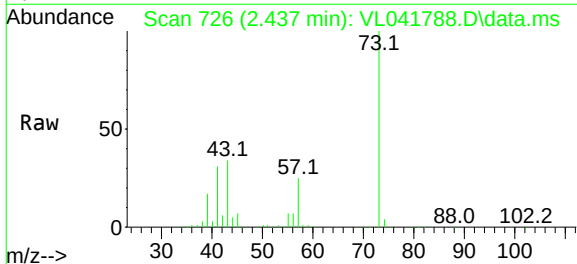
Manual Integrations
APPROVED

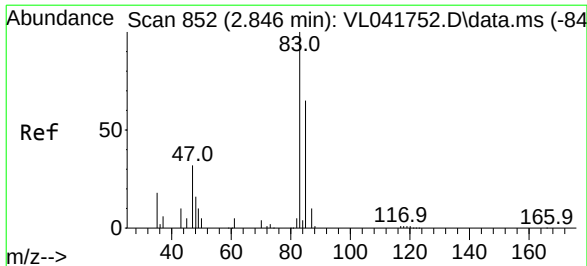
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

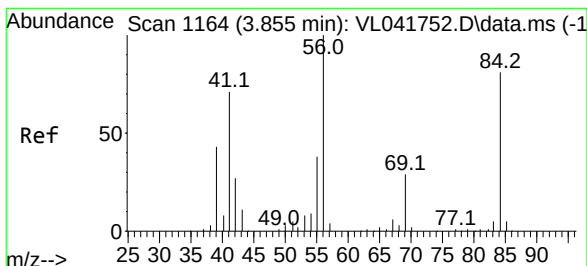
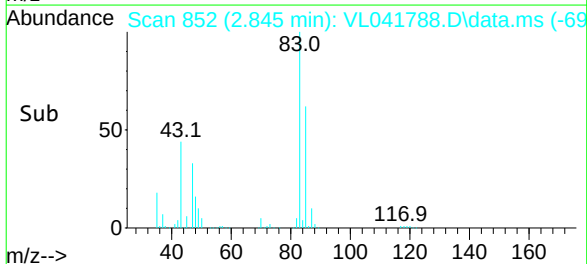
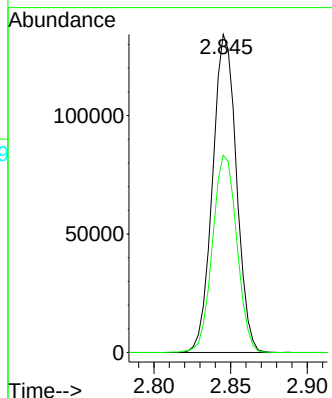
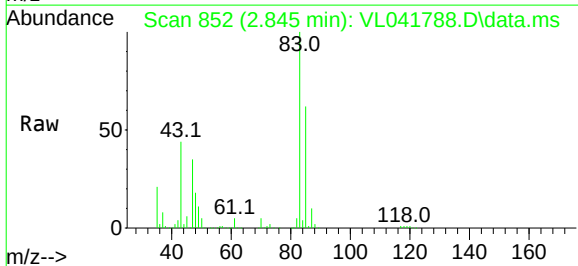
85 62.0 51.8 77.6

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

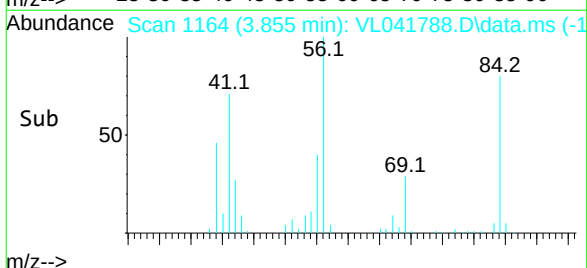
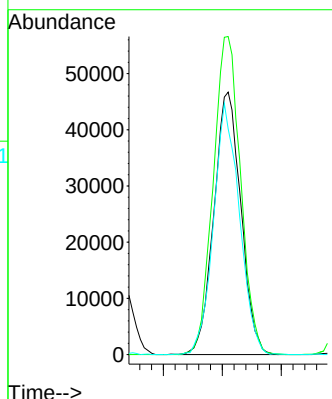
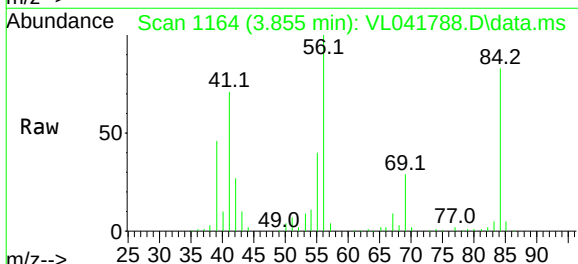
Tgt Ion: 84 Resp: 74346

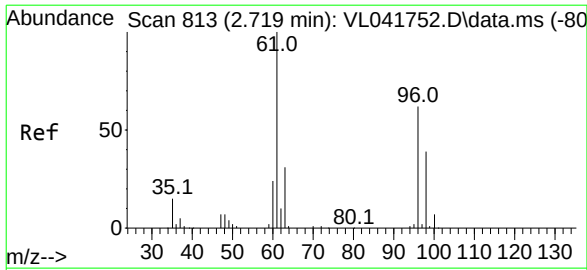
Ion Ratio Lower Upper

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

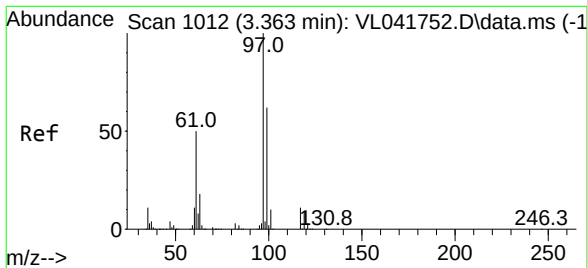
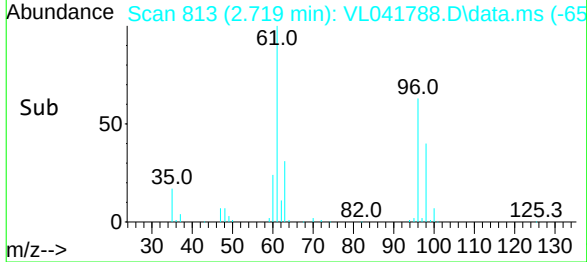
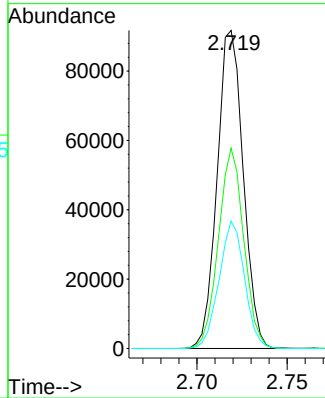
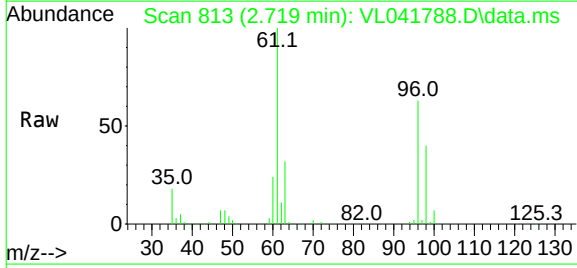
98 40.0 30.8 46.2

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

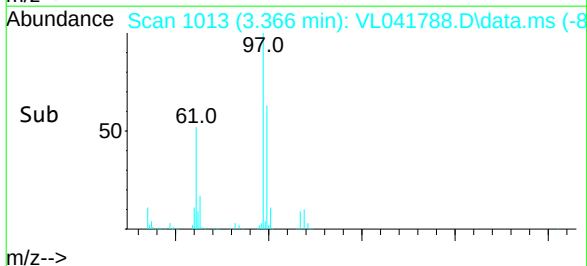
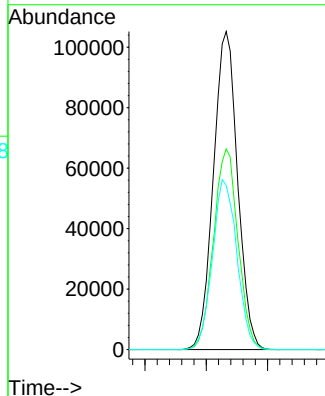
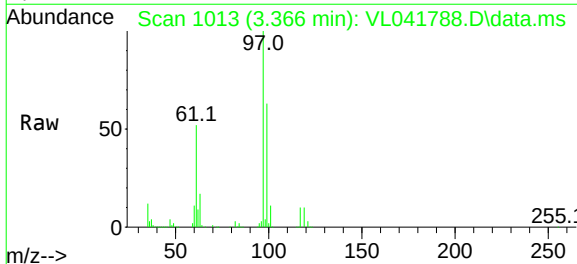
Tgt Ion: 97 Resp: 144038

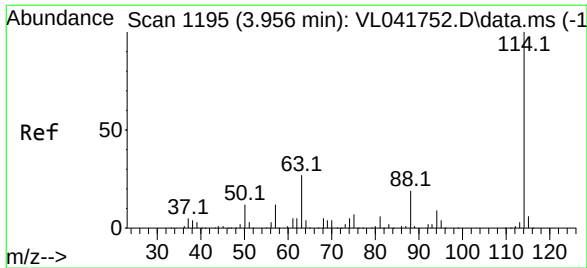
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.4

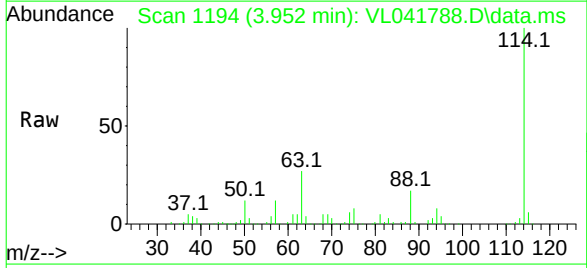
61 54.0 42.2 63.2





#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

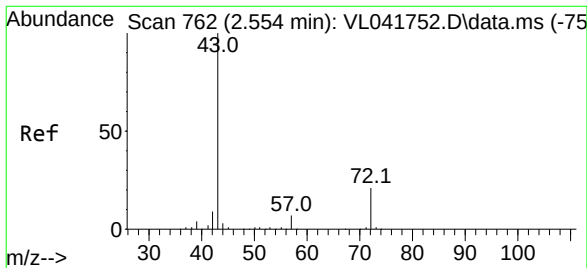
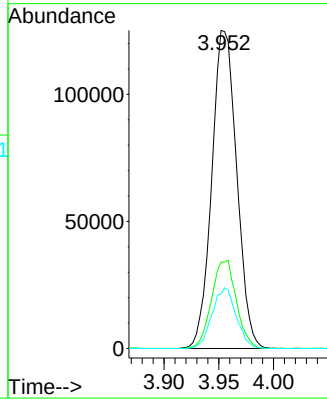
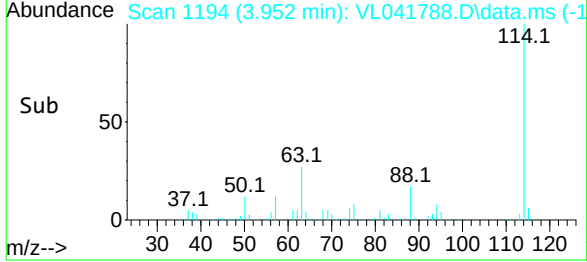
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 114 Resp: 198370
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.8
88 18.4 14.8 22.2

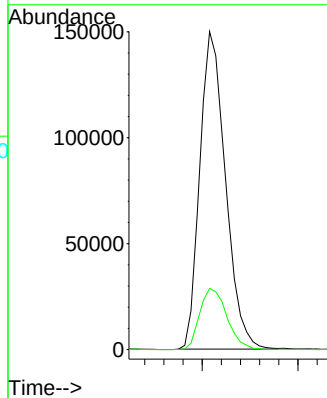
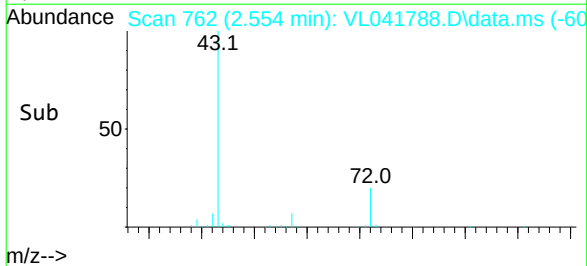
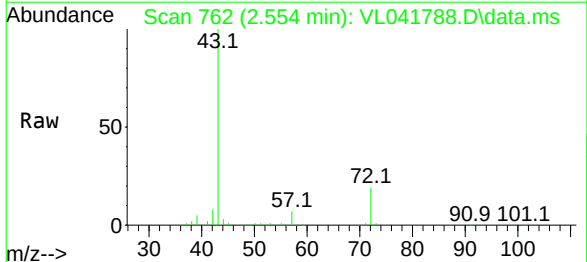
Manual Integrations
APPROVED

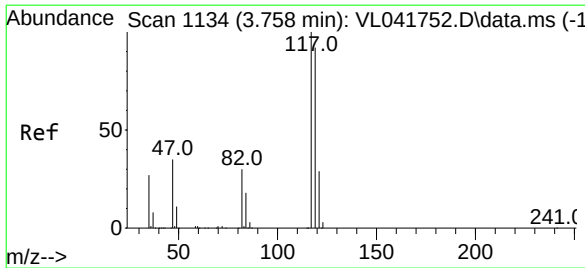
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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# 11

Delta R.T. 0.003 min

Lab File: VL041788.D

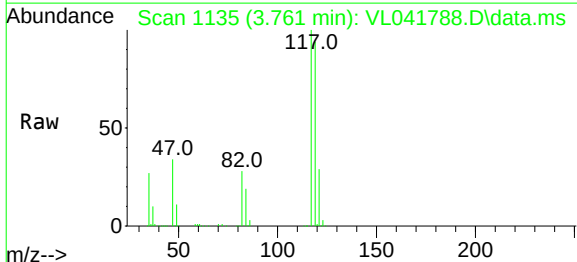
Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion:117 Resp: 147726

Ion Ratio Lower Upper

117 100

119 93.5 73.7 110.5

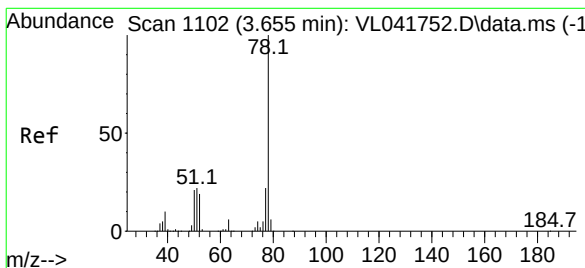
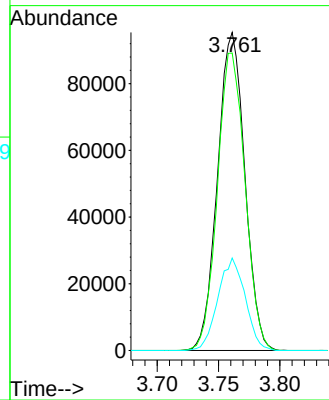
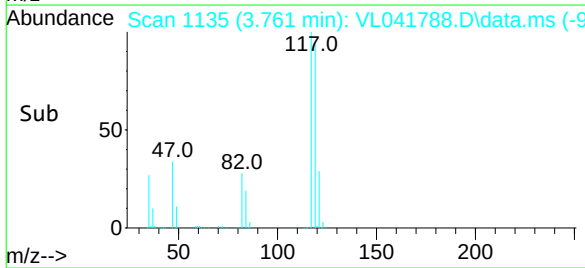
121 29.1 23.0 34.4

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

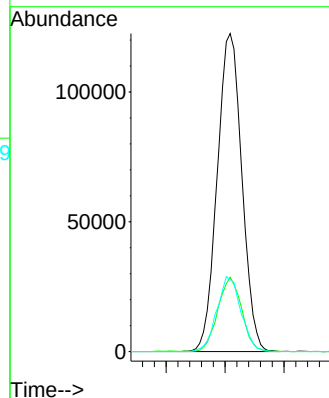
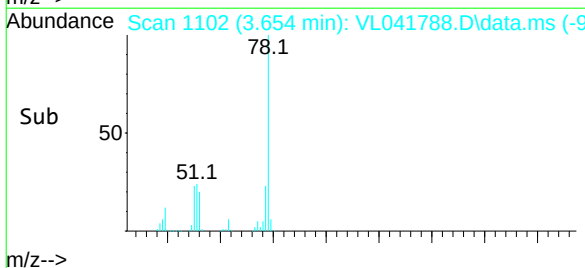
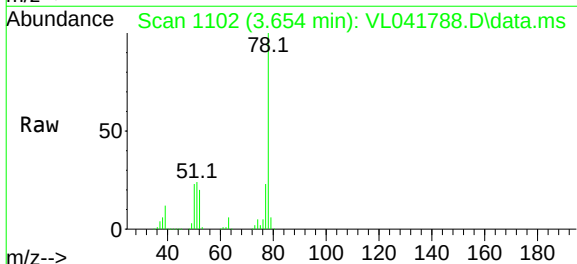
Tgt Ion: 78 Resp: 178114

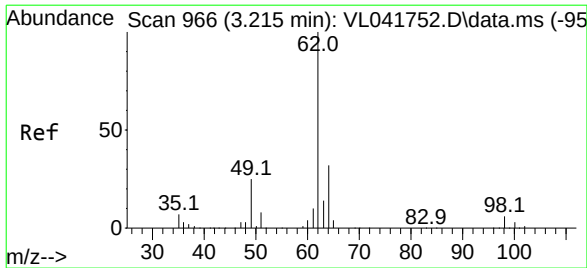
Ion Ratio Lower Upper

78 100

77 23.3 17.8 26.6

50 22.6 17.2 25.8





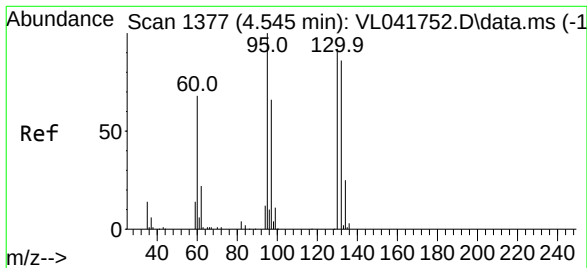
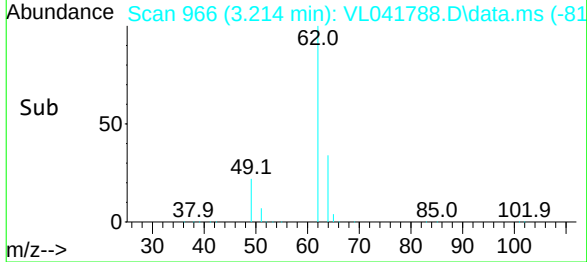
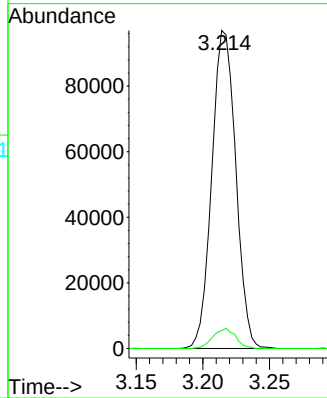
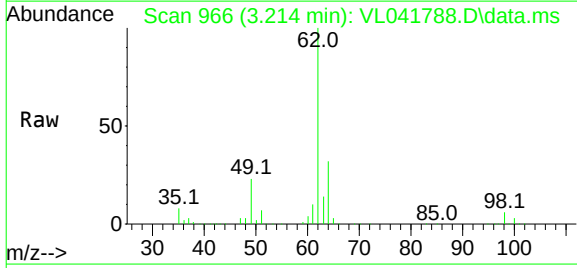
#37
1,2-Dichloroethane
Concen: 9.509 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 121412
Ion Ratio Lower Upper
62 100
98 6.0 4.7 7.1

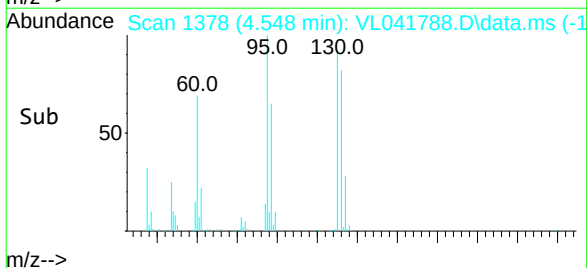
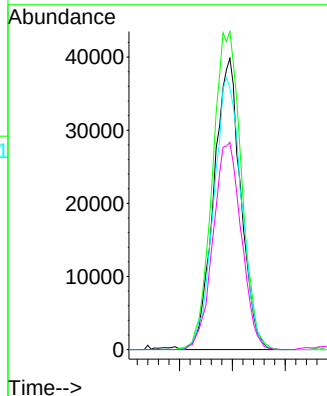
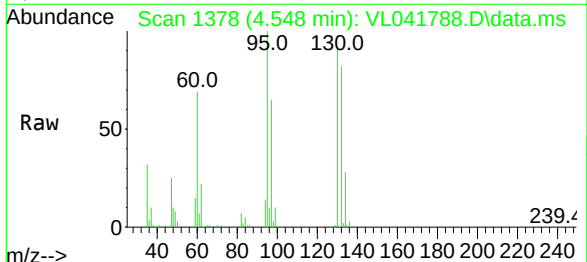
Manual Integrations
APPROVED

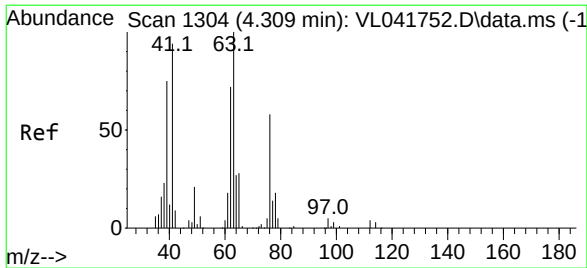
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

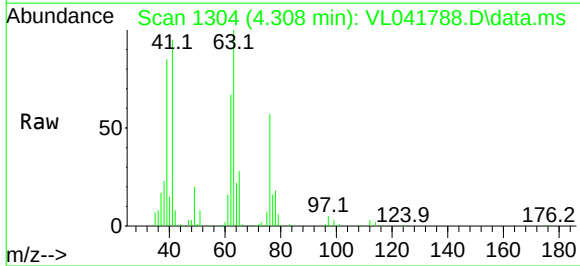
Tgt Ion:130 Resp: 70175
Ion Ratio Lower Upper
130 100
95 109.2 87.0 130.6
132 89.8 75.0 112.6
97 71.1 57.2 85.8





#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

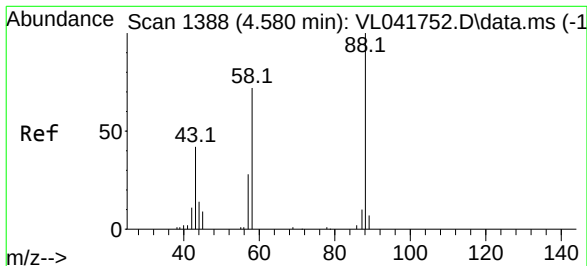
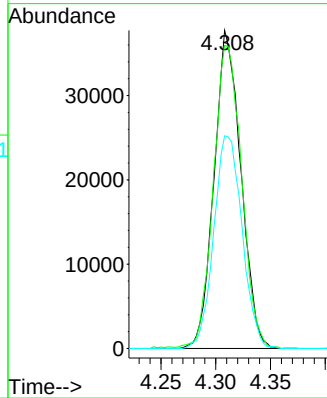
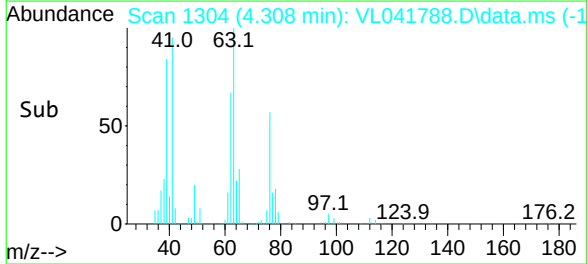
Instrument : MSVOA_1
ClientSampleId : VSTDCCC010



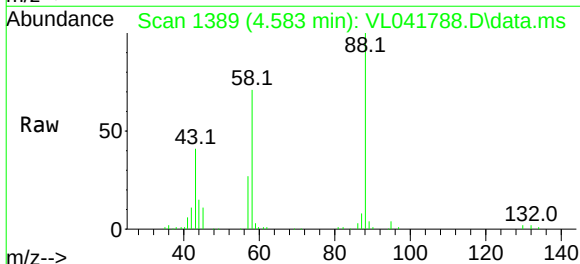
Tgt Ion: 63 Resp: 64154
Ion Ratio Lower Upper
63 100
41 94.8 75.3 112.9
62 66.9 57.3 85.9

Manual Integrations
APPROVED

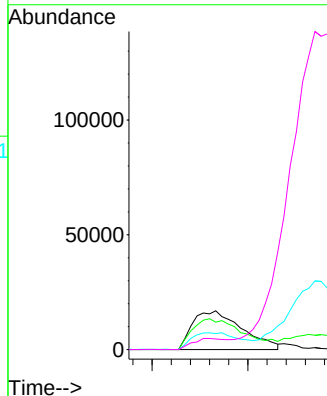
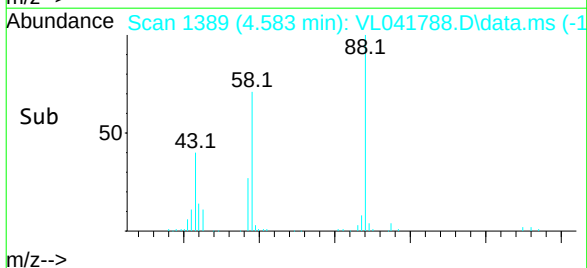
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

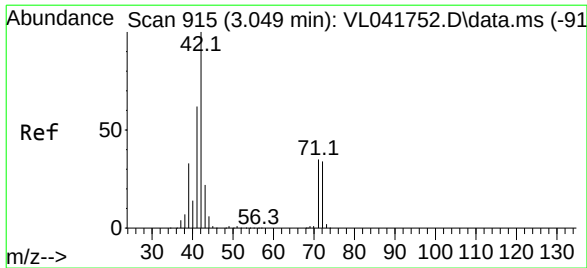


#40
1,4-Dioxane
Concen: 8.347 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



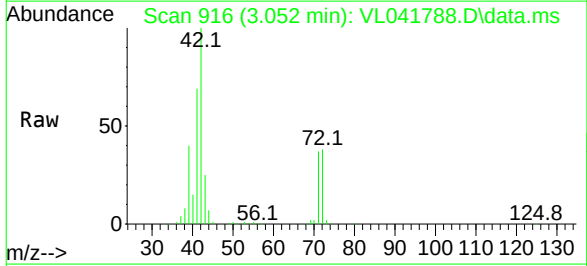
Tgt Ion: 88 Resp: 30262
Ion Ratio Lower Upper
88 100
58 79.3 61.0 91.6
43 40.5 29.4 44.0
57 0.0 0.0 0.0





#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

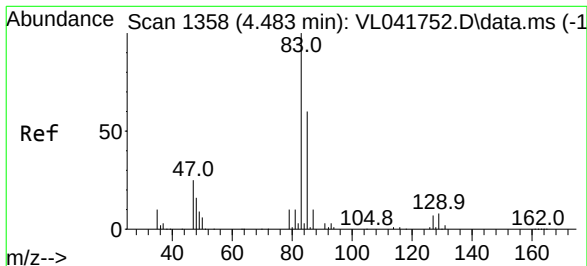
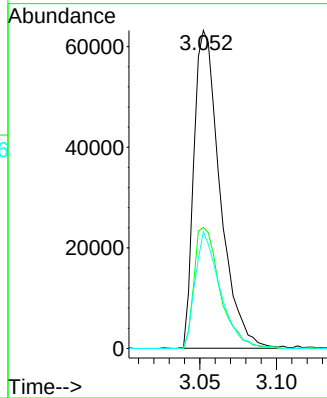
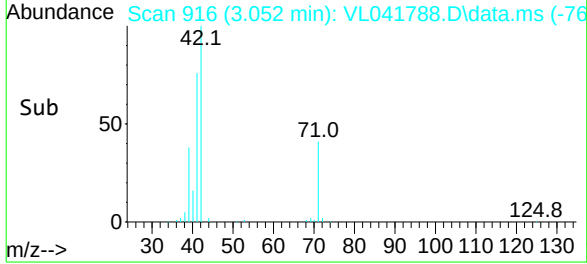
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



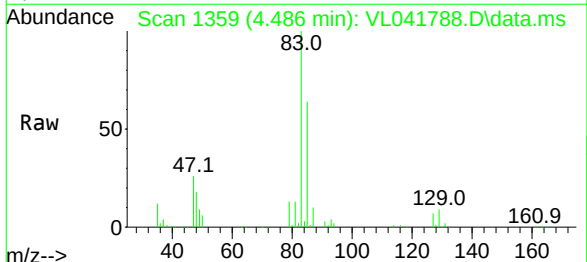
Tgt Ion: 42 Resp: 74734
Ion Ratio Lower Upper
42 100
72 38.0 29.1 43.7
71 35.3 28.4 42.6

Manual Integrations
APPROVED

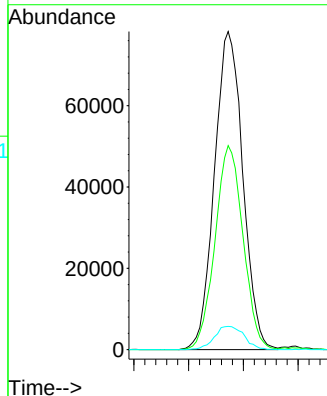
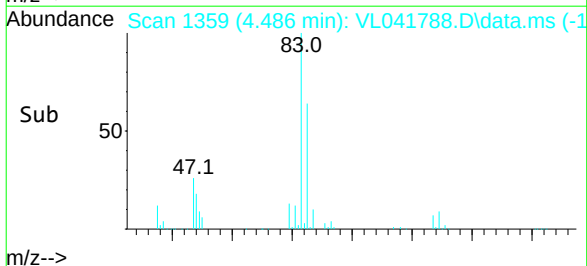
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

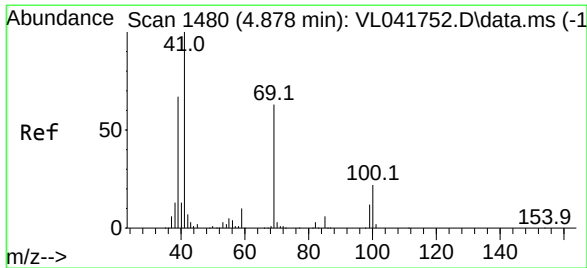


#42
Bromodichloromethane
Concen: 9.588 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



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





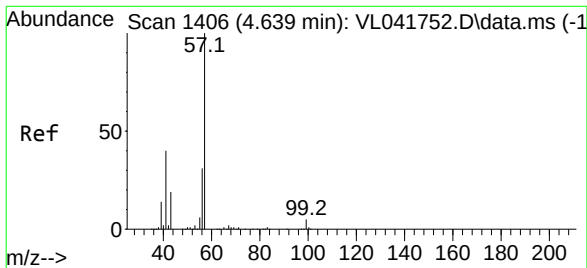
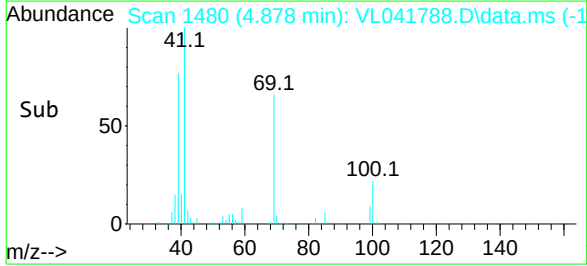
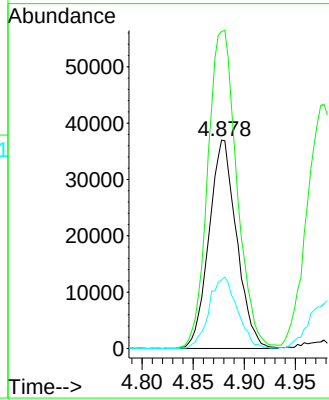
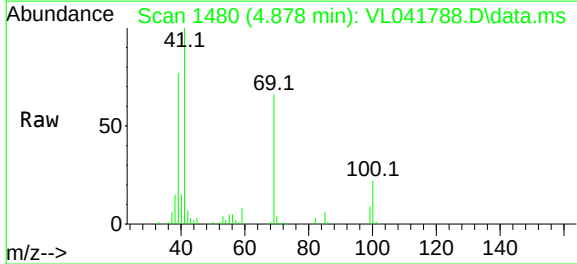
#43
Methyl Methacrylate
Concen: 8.895 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

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

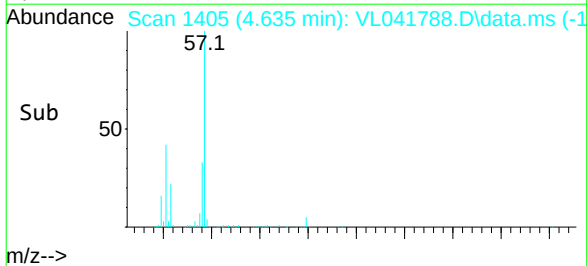
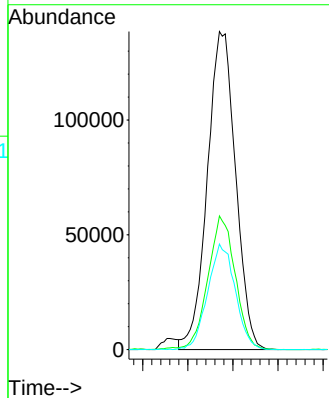
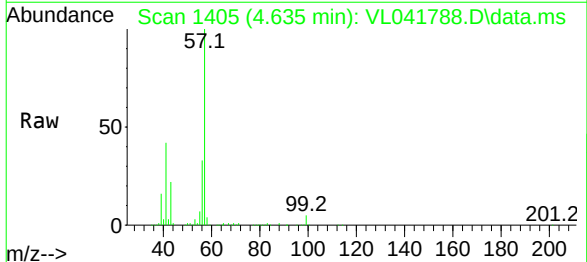
Manual Integrations
APPROVED

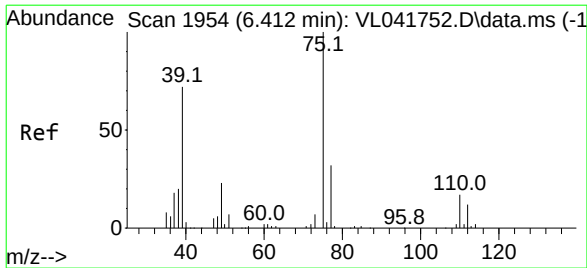
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

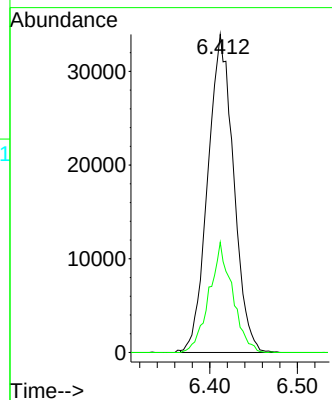
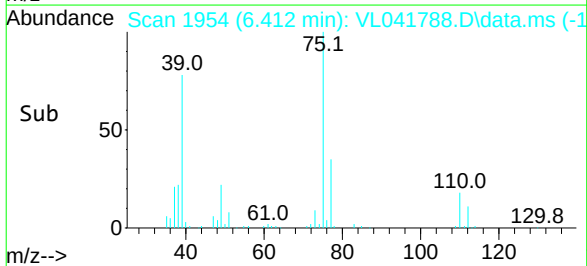
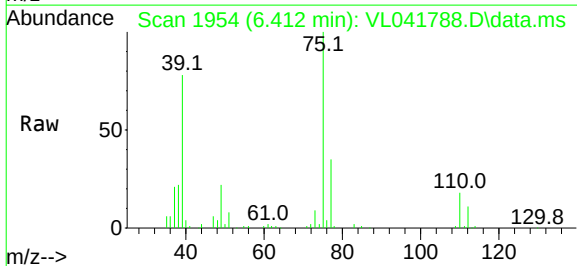
Acq: 18 Dec 2024 10:29

Tgt Ion: 75 Resp: 69601

Ion Ratio Lower Upper

75 100

77 34.6 25.9 38.9



Instrument :

MSVOA_L

ClientSampleId :

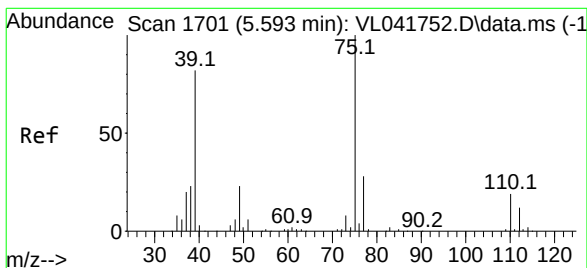
VSTDCCC010

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

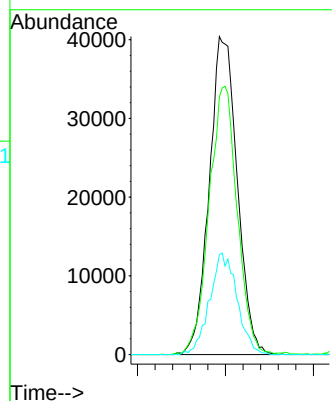
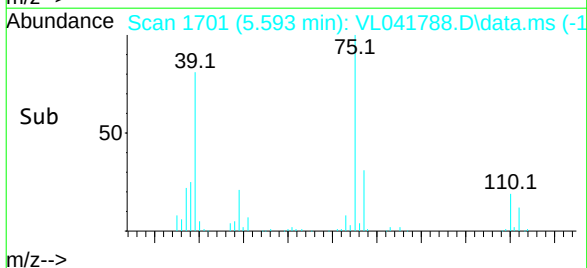
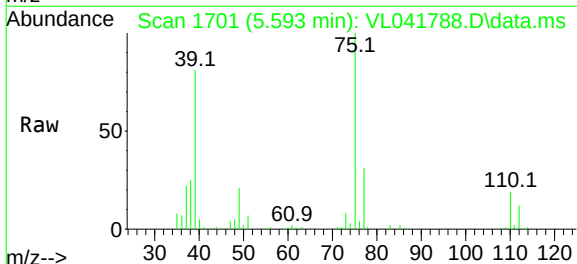
Tgt Ion: 75 Resp: 89328

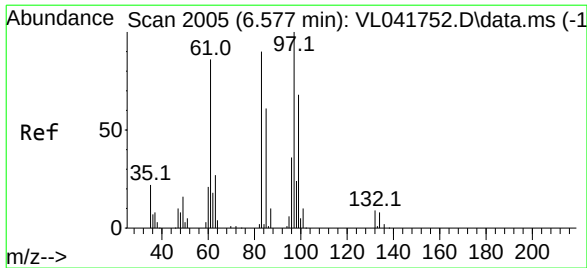
Ion Ratio Lower Upper

75 100

39 81.0 65.2 97.8

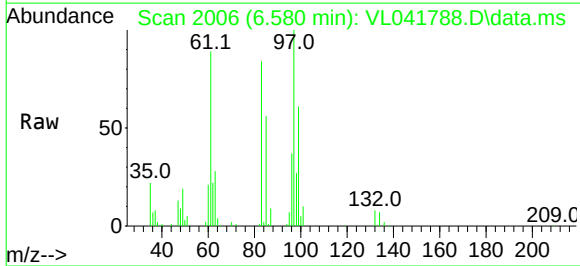
77 31.4 22.0 33.0





#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

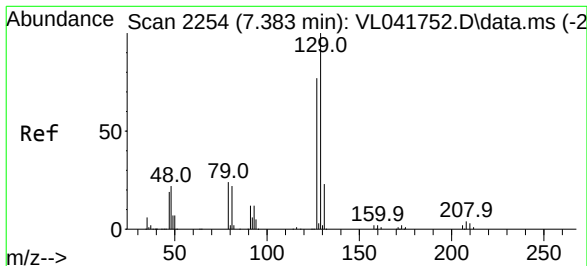
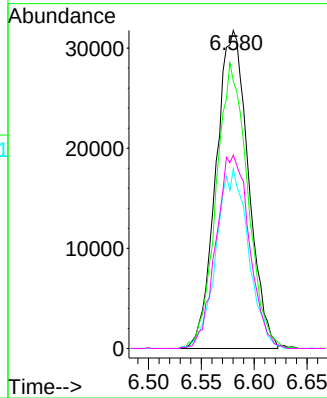
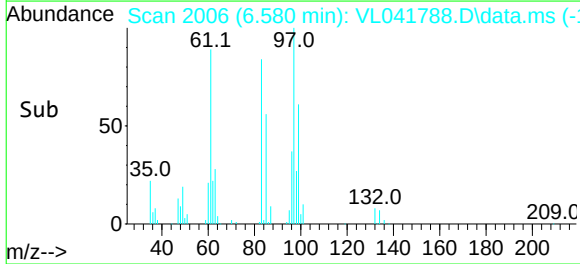
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

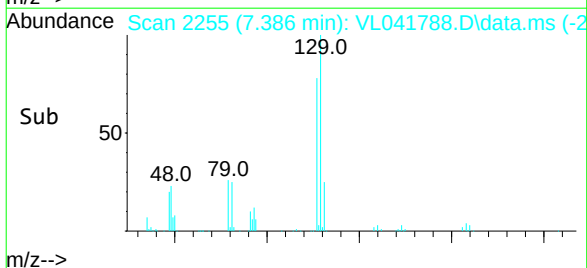
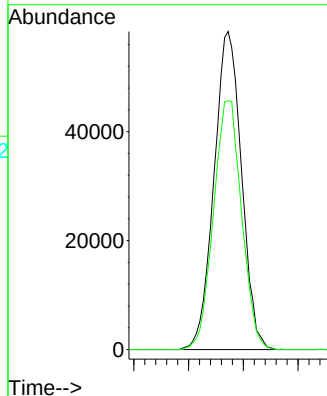
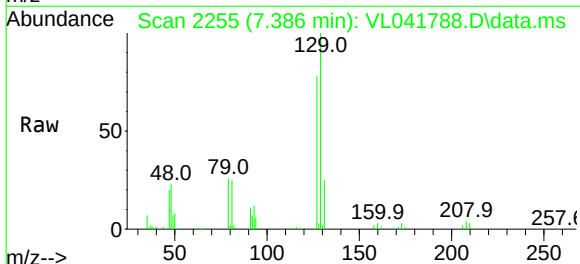
Manual Integrations
APPROVED

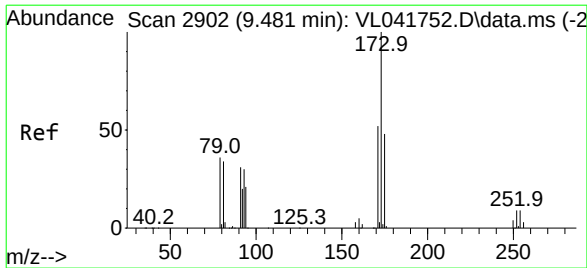
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





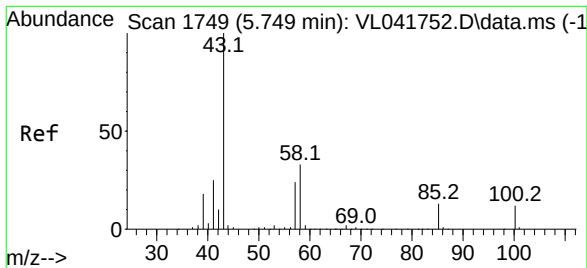
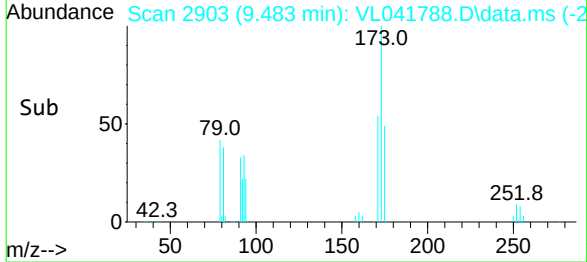
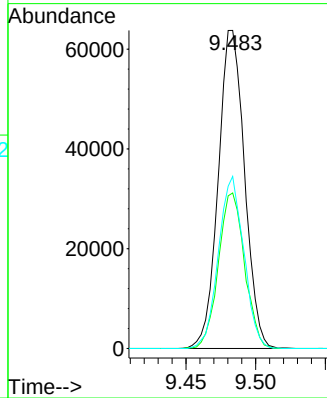
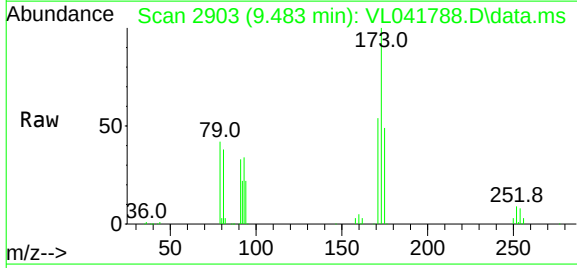
#49
Bromoform
Concen: 9.655 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.2	57.2
171	52.2	41.1	61.7

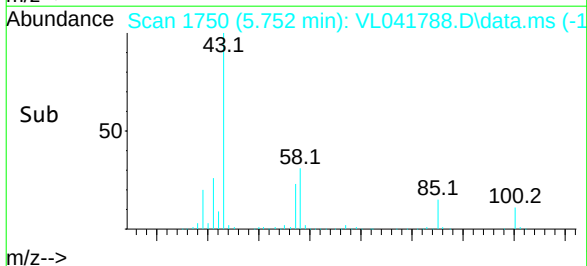
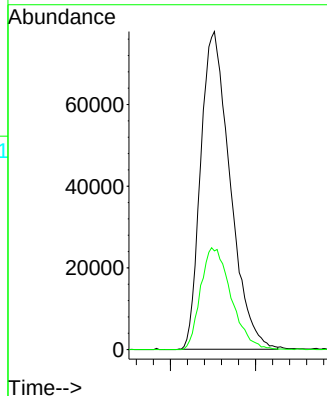
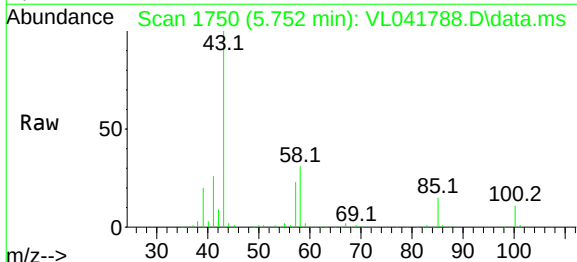
Manual Integrations
APPROVED

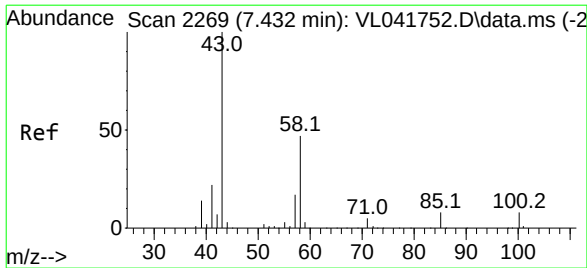
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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	Ratio	Lower	Upper
43	100		
58	33.2	26.8	40.2





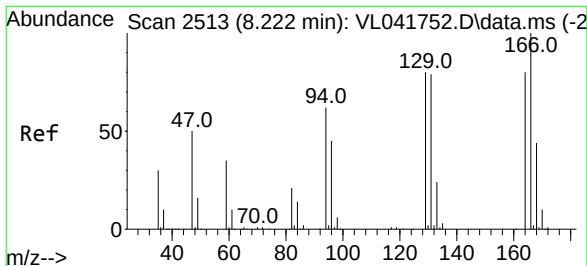
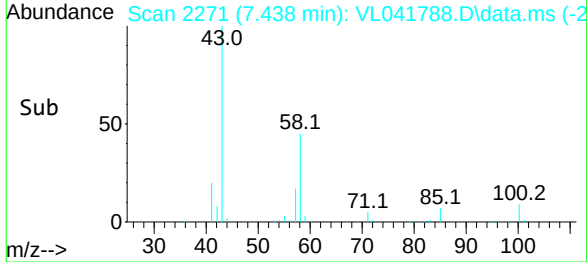
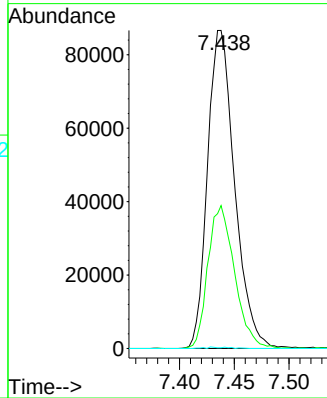
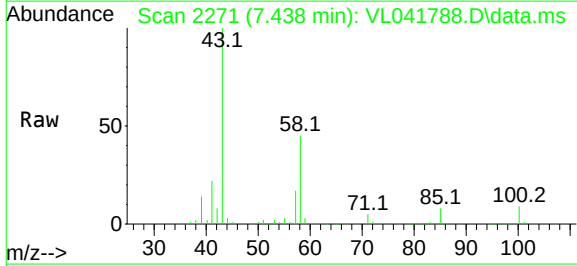
#51
2-Hexanone
Concen: 8.472 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

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

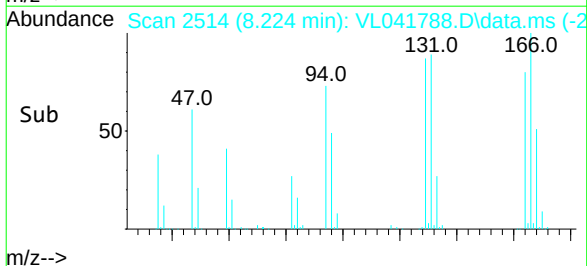
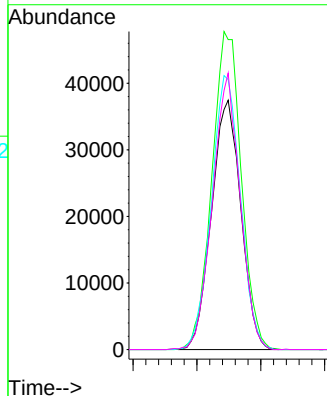
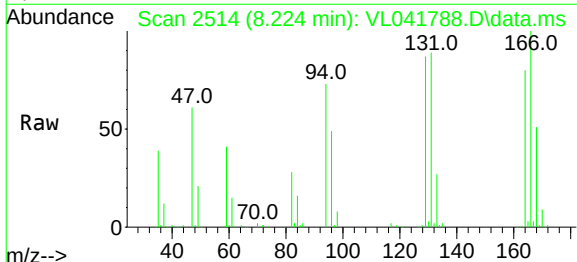
Manual Integrations
APPROVED

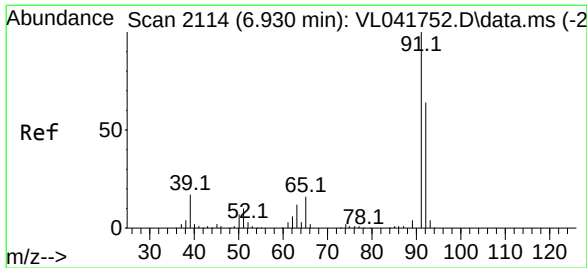
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





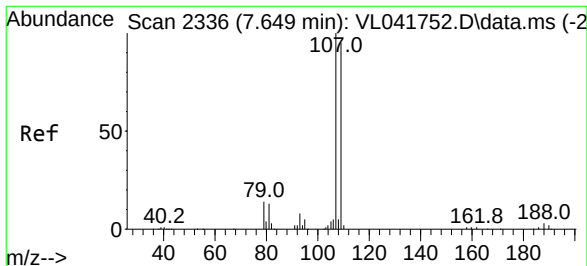
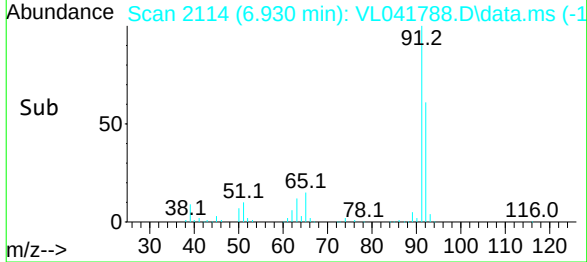
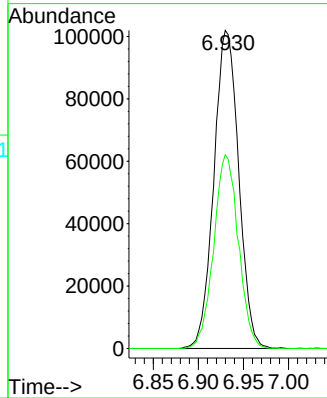
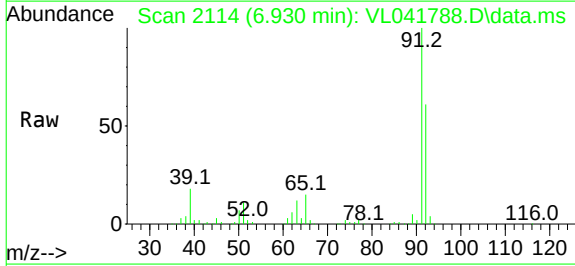
#53
Toluene
Concen: 8.389 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion: 91 Resp: 195158
Ion Ratio Lower Upper
91 100
92 60.5 47.9 71.9

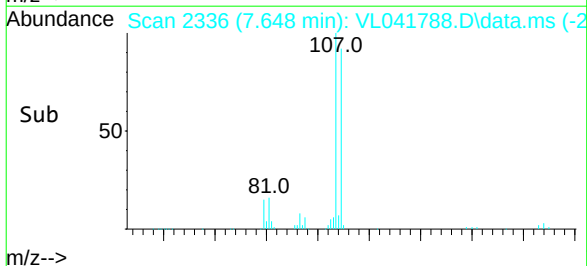
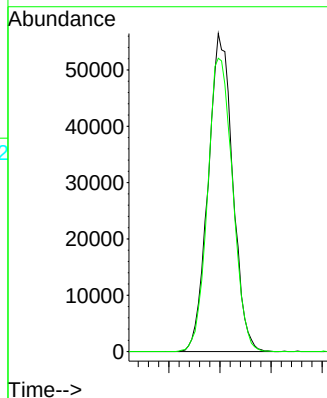
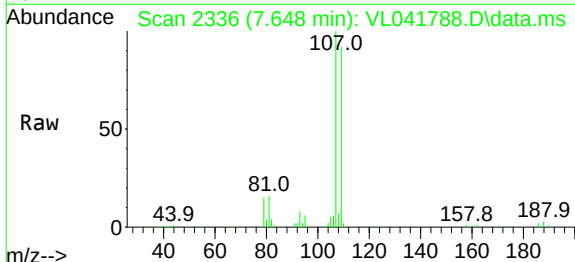
Manual Integrations
APPROVED

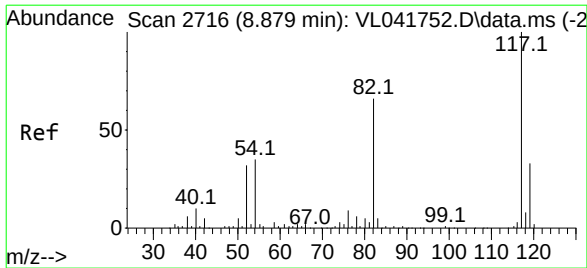
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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 :

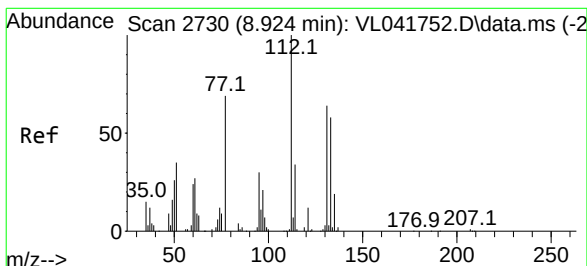
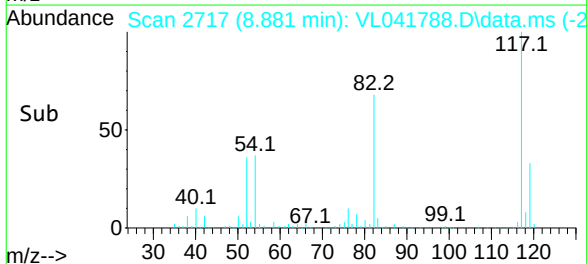
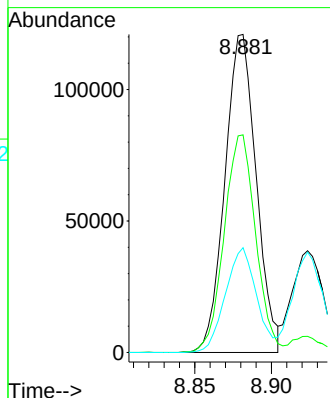
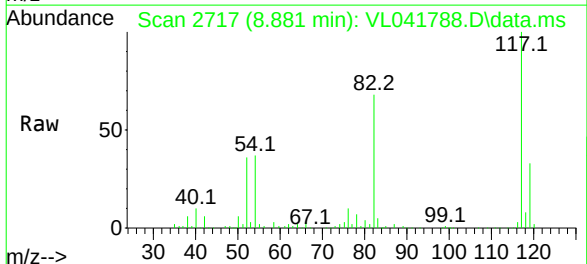
VSTDCCC010

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

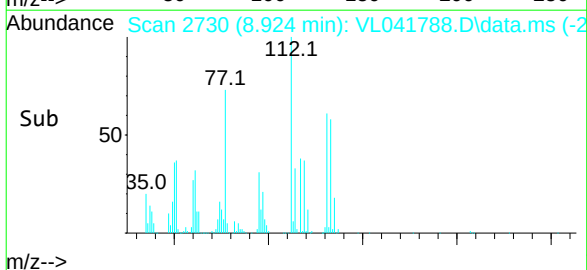
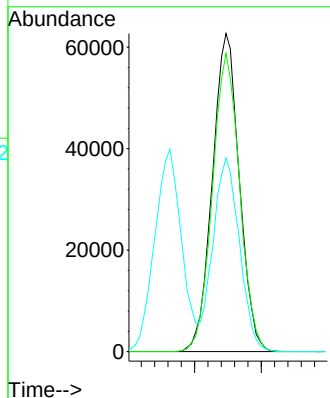
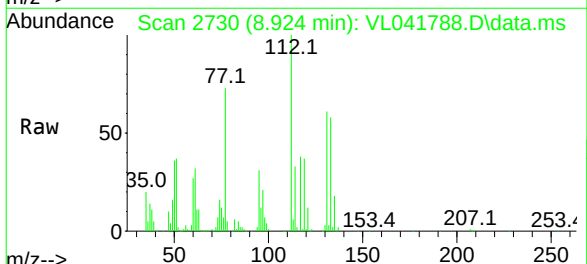
RT: 8.924 min Scan# 2730

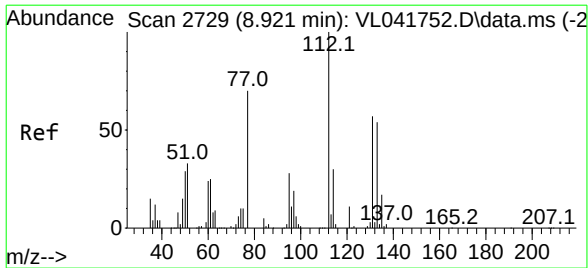
Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

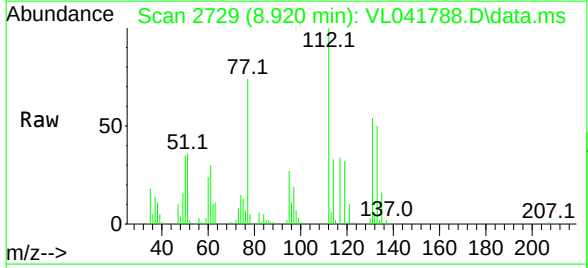
Tgt Ion:	131	Resp:	87869
Ion	Ratio	Lower	Upper
131	100		
133	94.8	76.8	115.2
119	60.8	49.0	73.6





#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

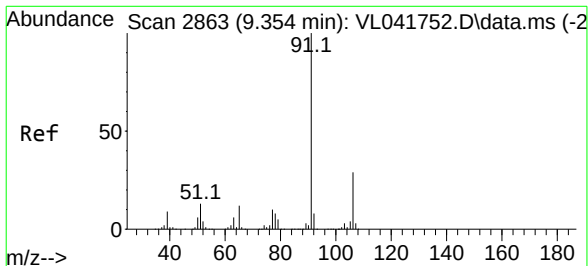
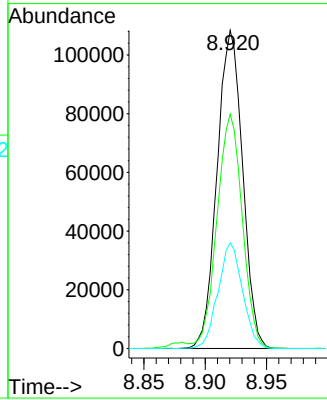
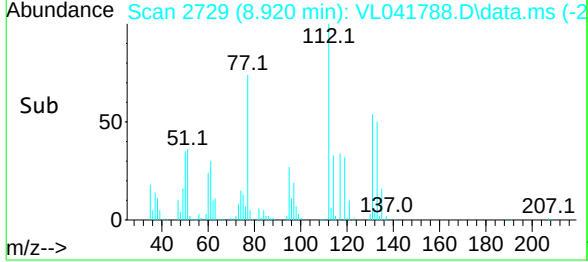
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

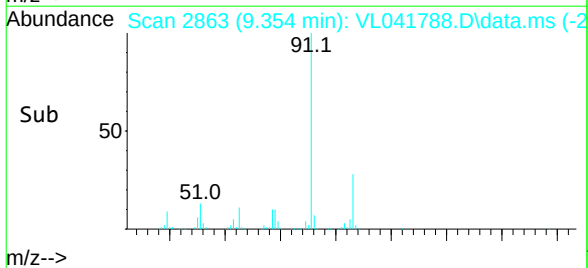
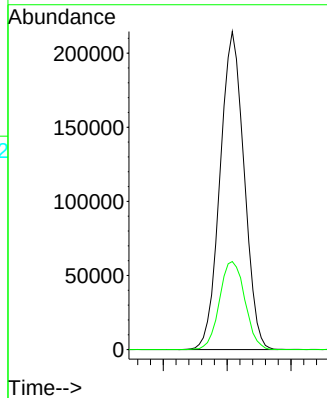
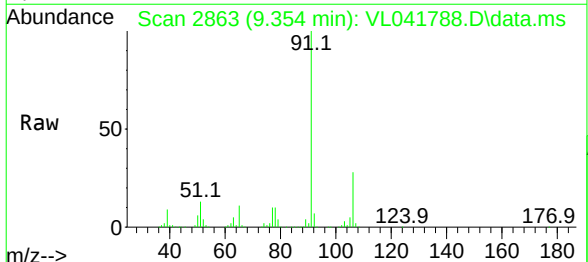
Manual Integrations
APPROVED

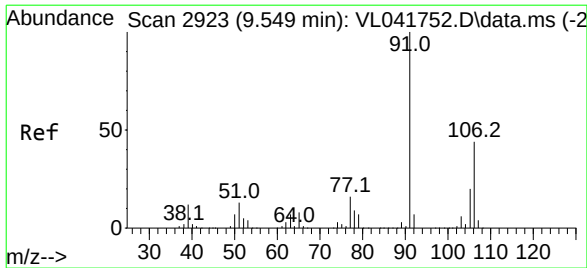
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





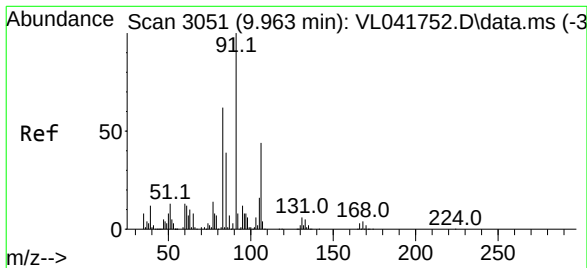
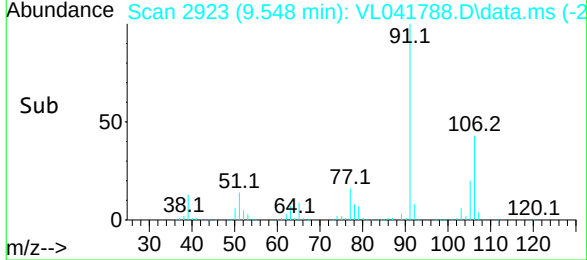
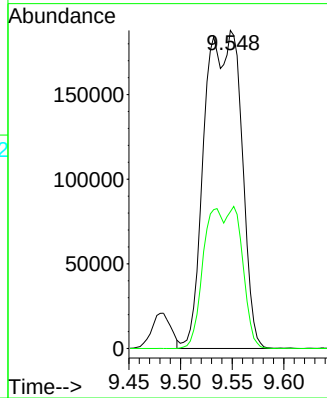
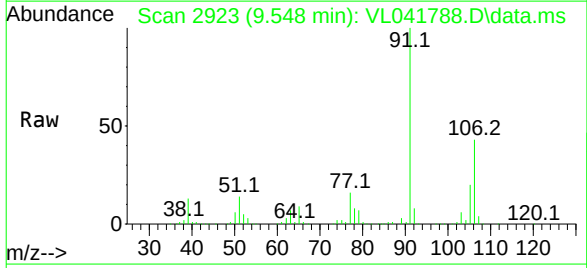
#59
m/p-Xylene
Concen: 18.725 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 466737
Ion Ratio Lower Upper
91 100
106 45.2 0.0 0.0#

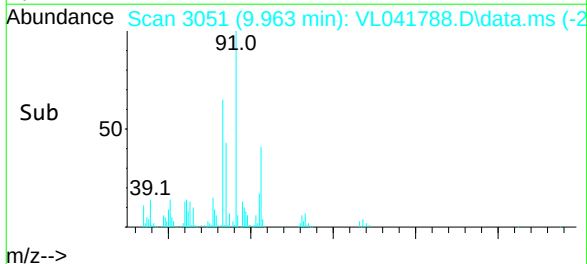
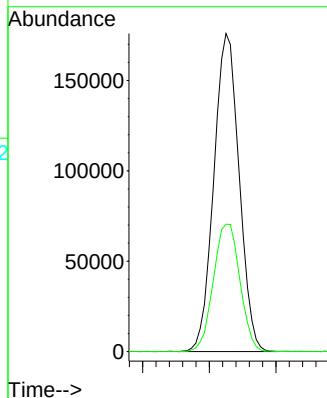
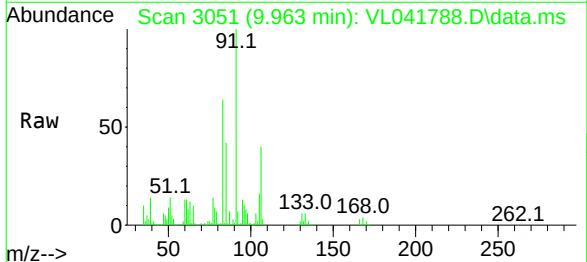
Manual Integrations
APPROVED

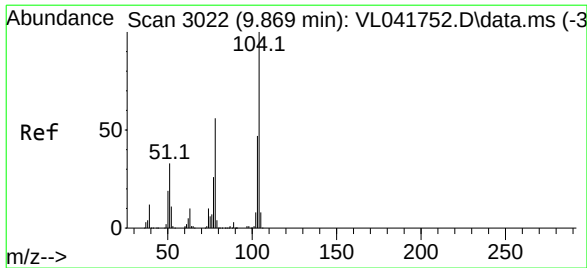
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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 :

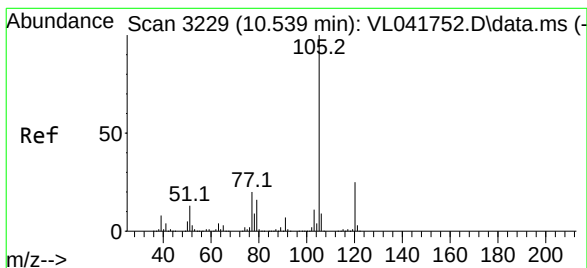
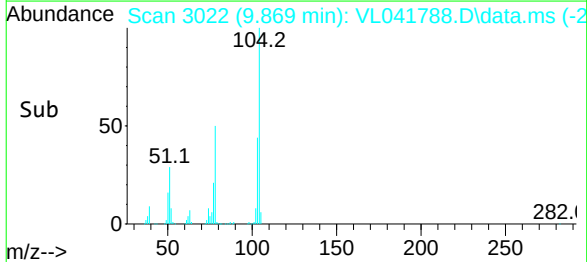
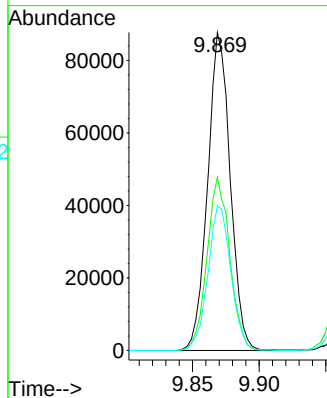
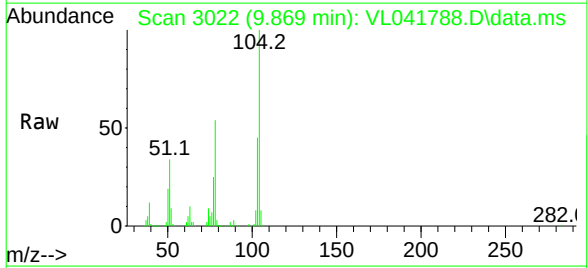
VSTDCCC010

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

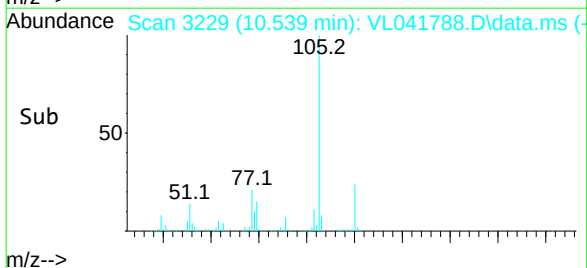
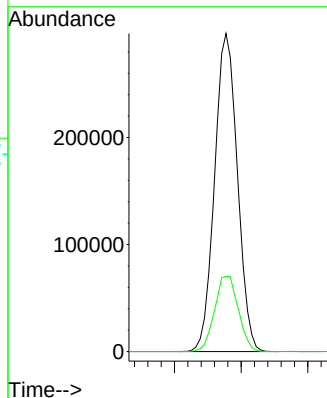
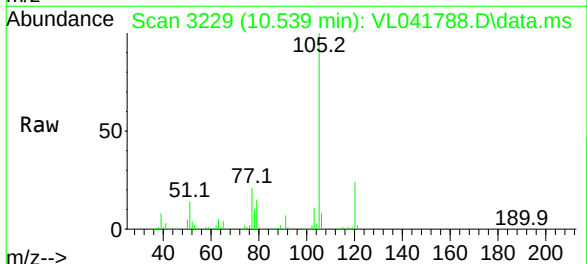
RT: 10.539 min Scan# 3229

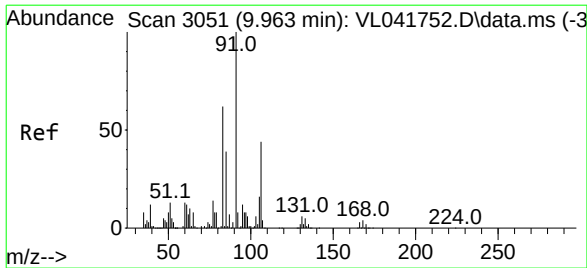
Delta R.T. -0.000 min

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





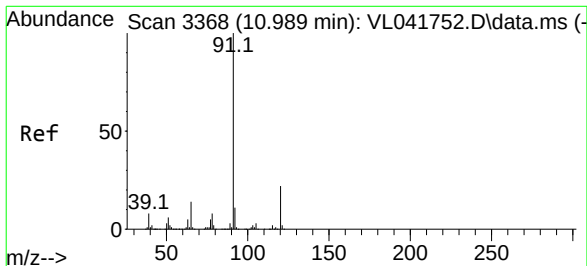
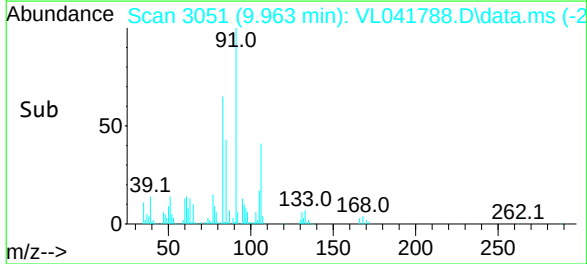
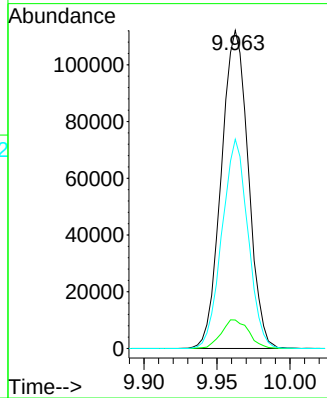
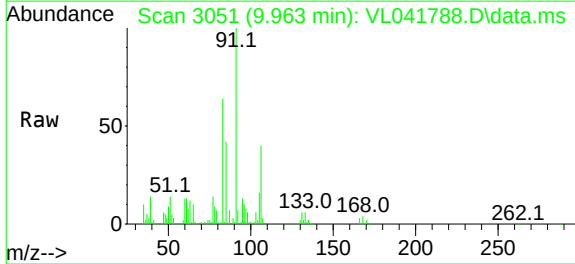
#63
1,1,2,2-Tetrachloroethane
Concen: 9.216 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument : MSVOA_L
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

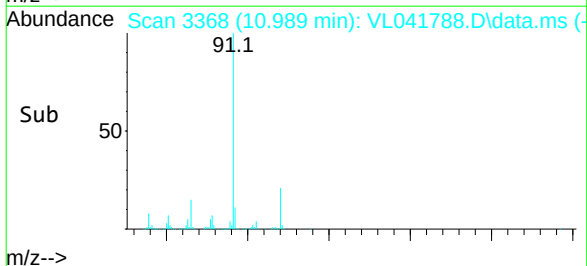
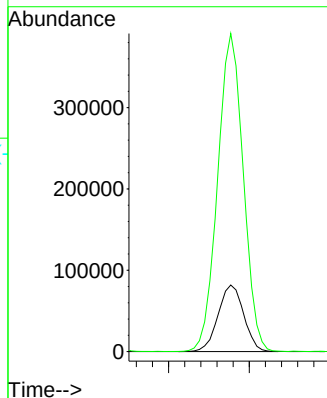
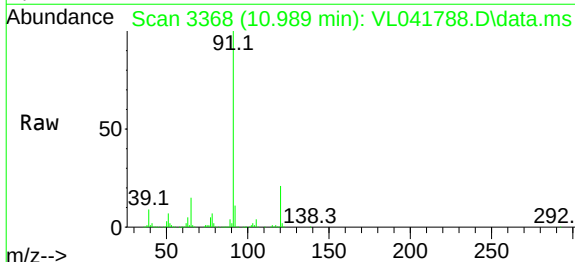
Manual Integrations
APPROVED

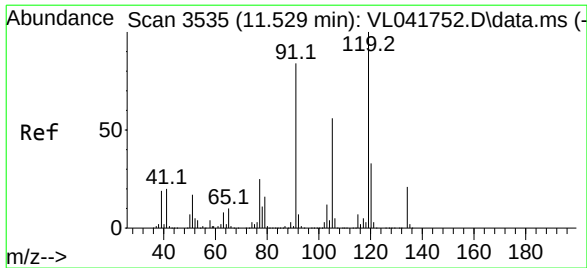
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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 :

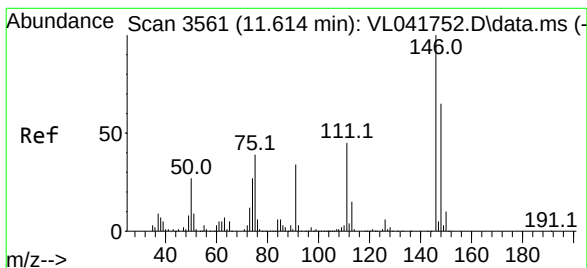
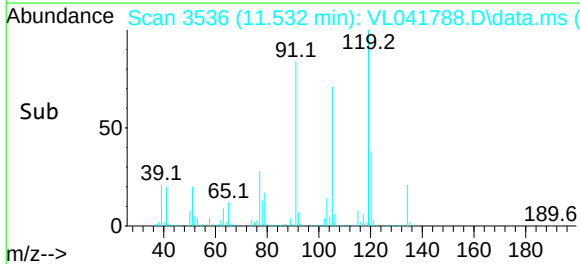
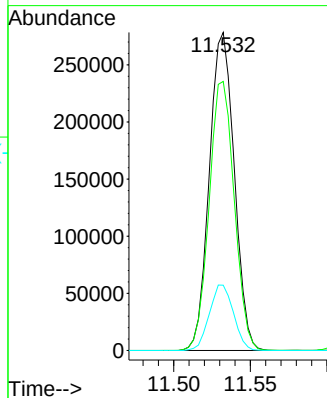
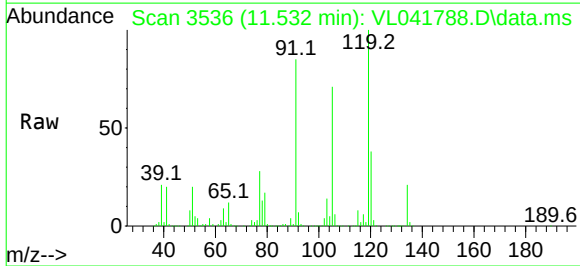
VSTDCCC010

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

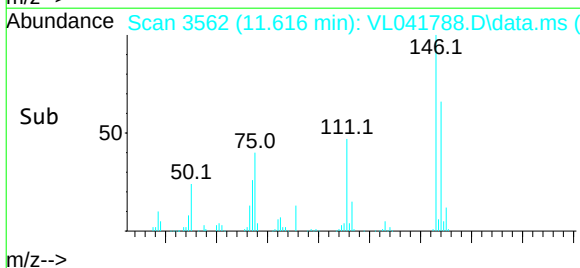
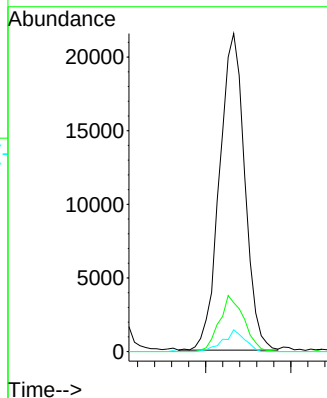
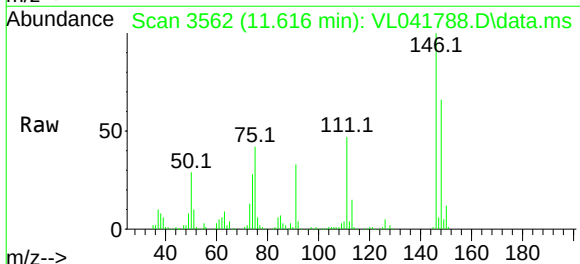
RT: 11.616 min Scan# 3562

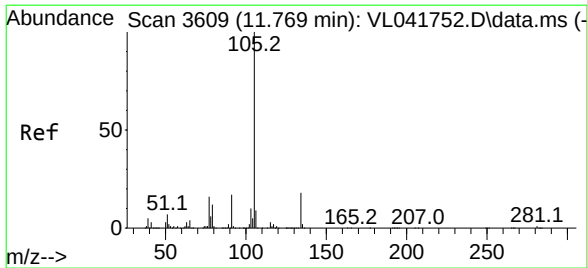
Delta R.T. 0.003 min

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

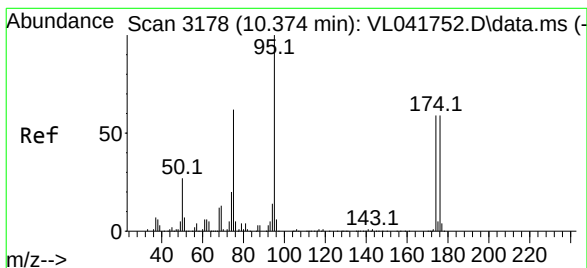
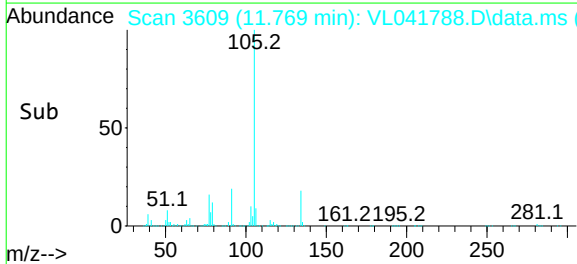
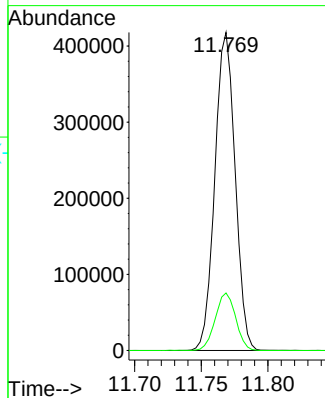
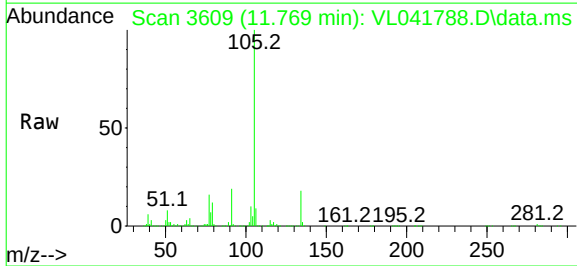
134 18.3 14.5 21.7

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

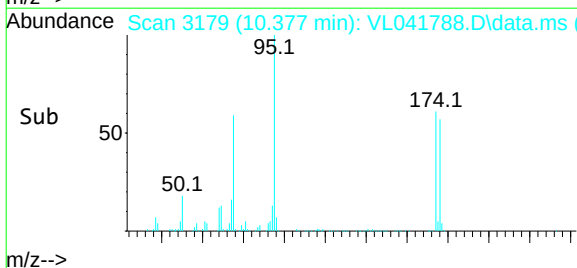
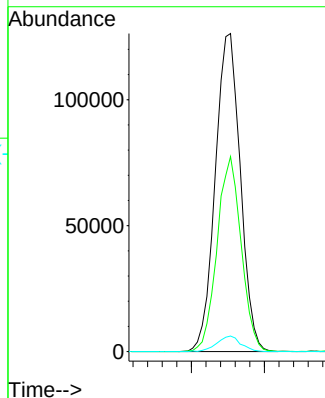
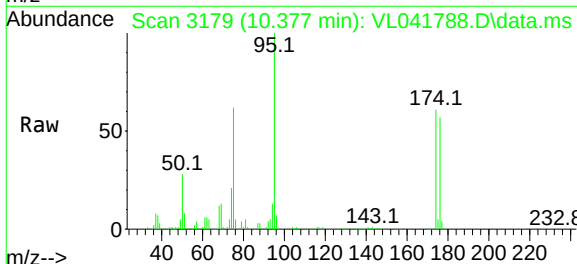
Tgt Ion: 95 Resp: 150705

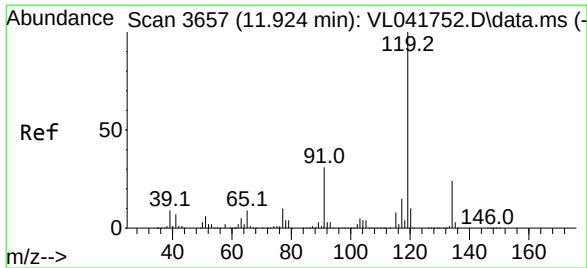
Ion Ratio Lower Upper

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 :

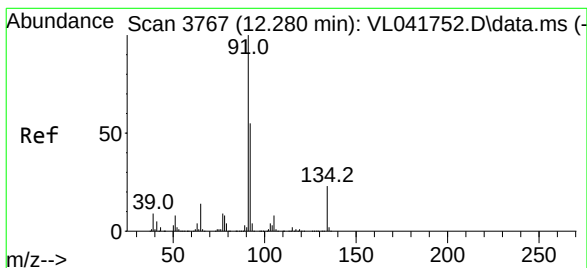
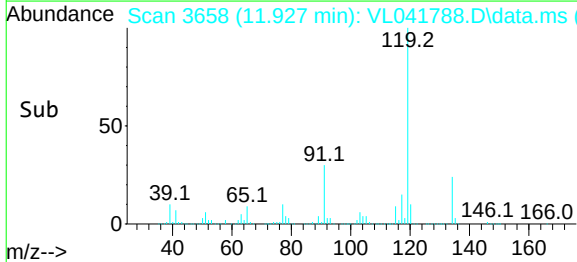
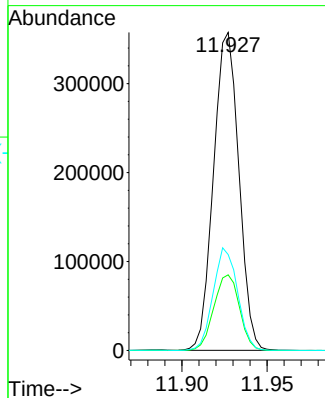
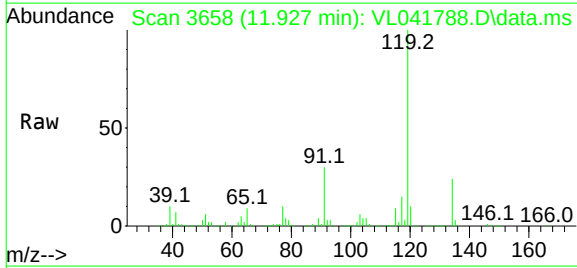
VSTDCCC010

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

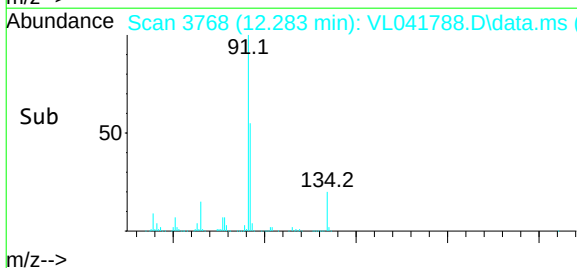
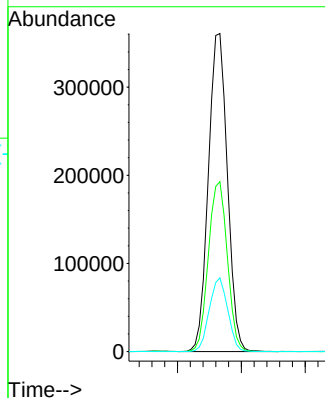
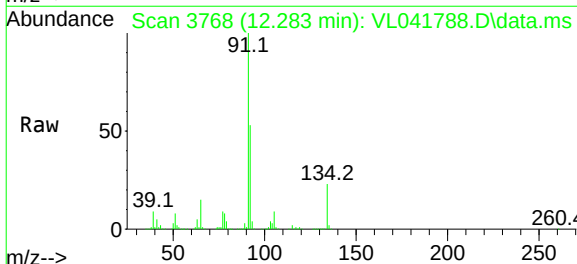
RT: 12.283 min Scan# 3768

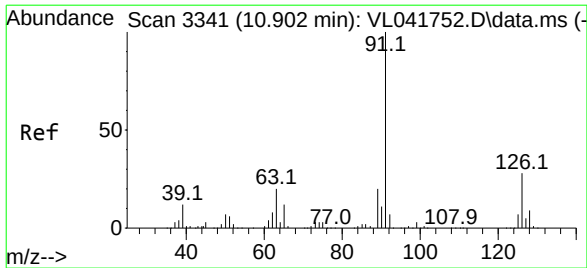
Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

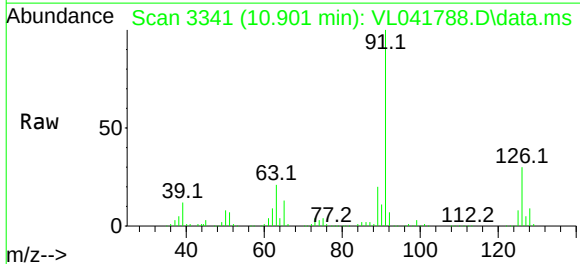
Tgt Ion:	91	Resp:	373294
Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.2	64.8
134	22.5	18.2	27.4





#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

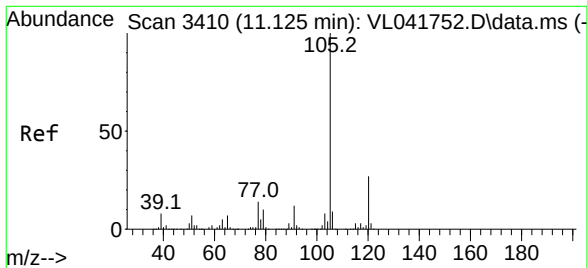
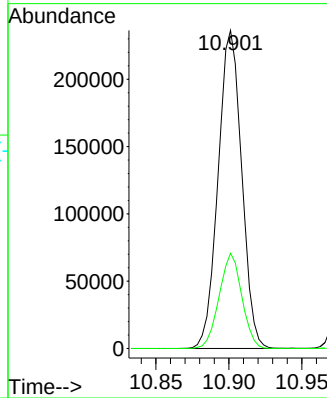
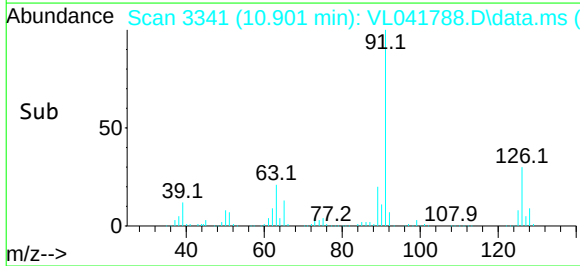
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 91 Resp: 264866
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4

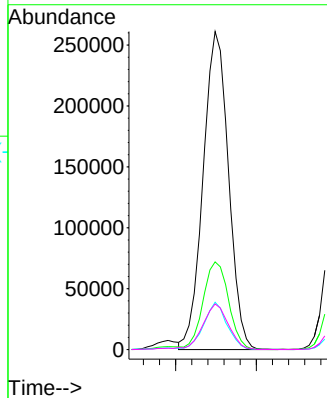
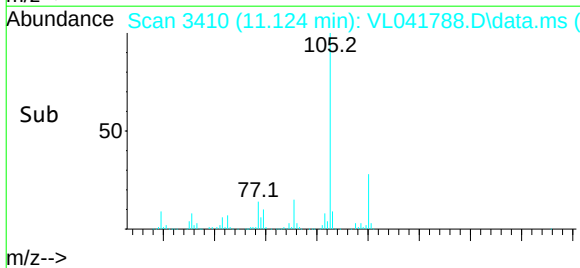
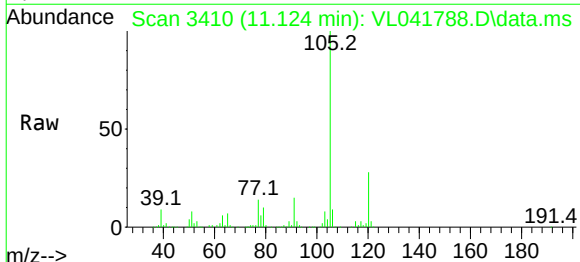
Manual Integrations
APPROVED

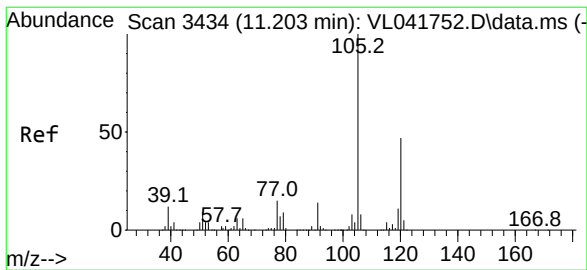
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

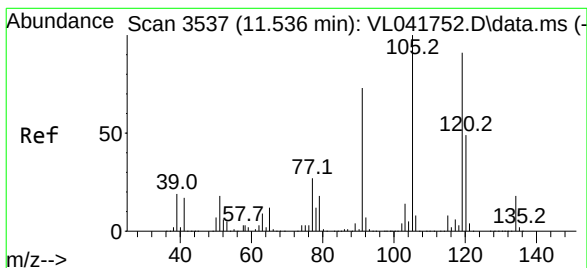
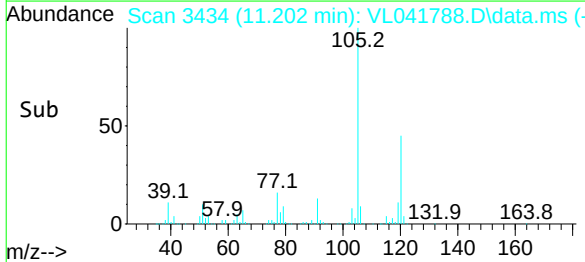
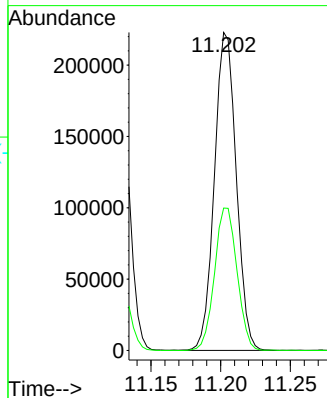
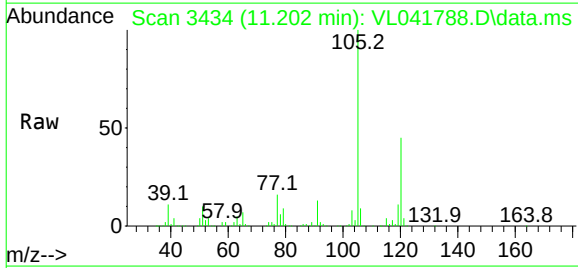
120 44.8 37.4 56.2

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

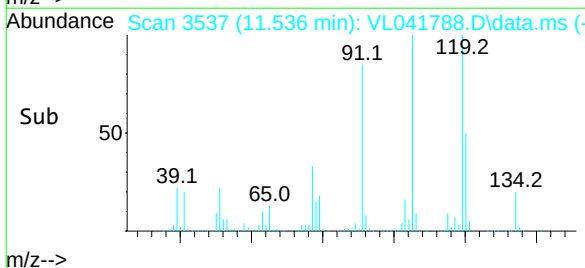
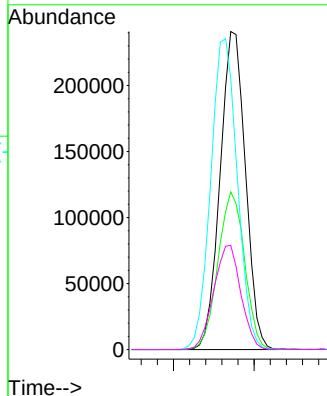
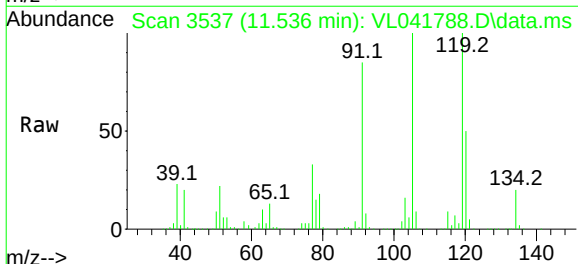
Ion Ratio Lower Upper

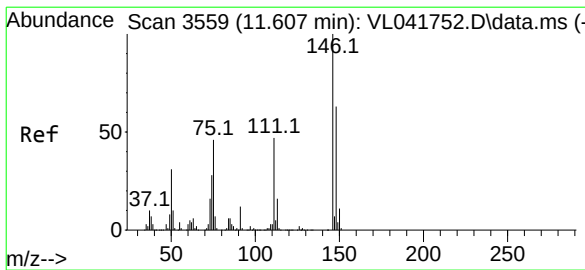
105 100

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_1

ClientSampleId :

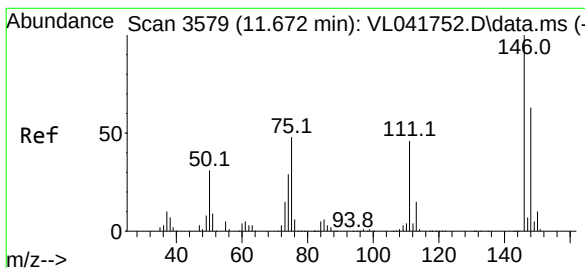
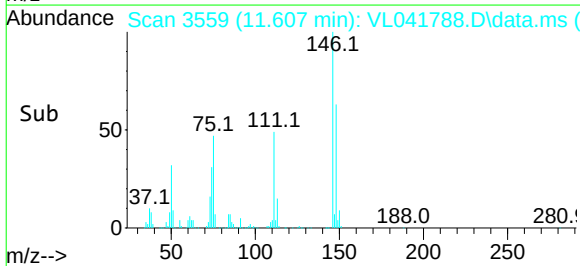
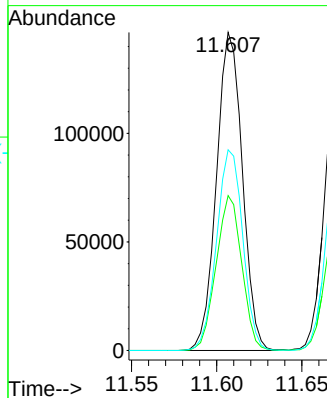
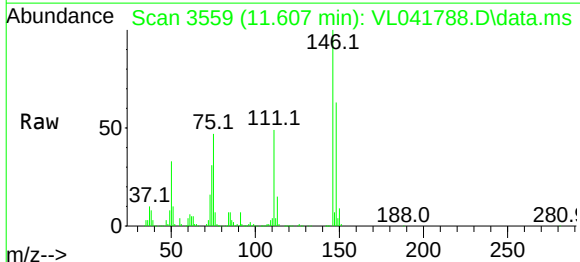
VSTDCCC010

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

Manual Integrations

APPROVED

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



#76

1,4-Dichlorobenzene

Concen: 9.296 ppbv

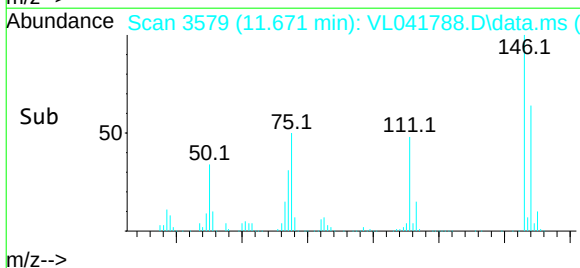
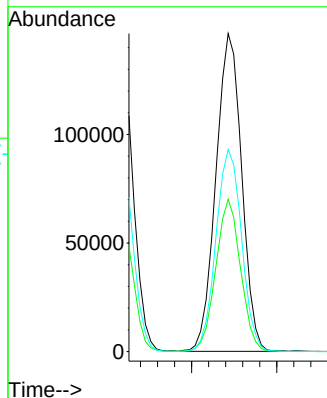
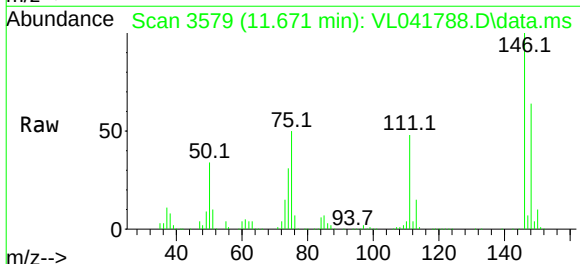
RT: 11.671 min Scan# 3579

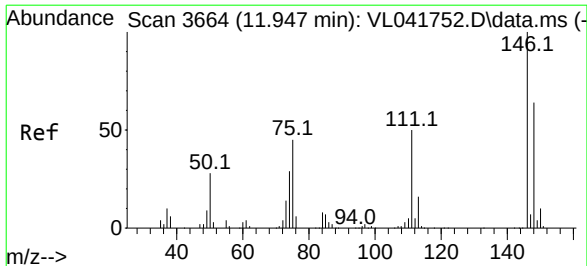
Delta R.T. -0.000 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

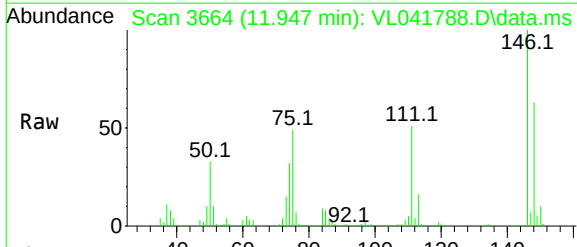
Tgt Ion:	146	Resp:	154115
Ion Ratio	Lower	Upper	
146	100		
111	46.1	22.7	68.1
148	63.5	31.4	94.0





#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

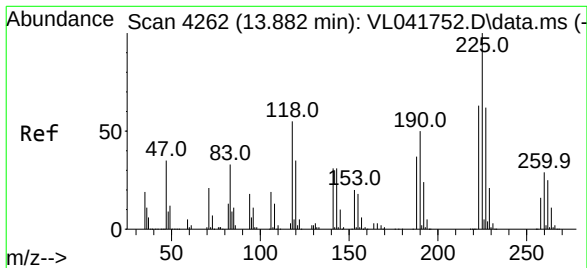
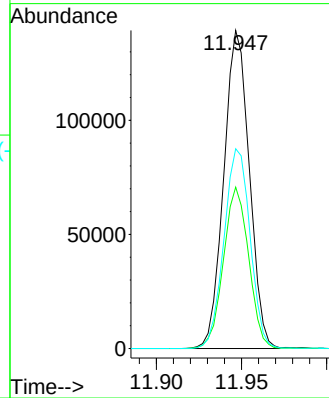
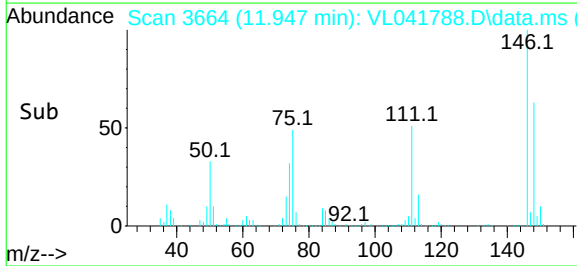
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



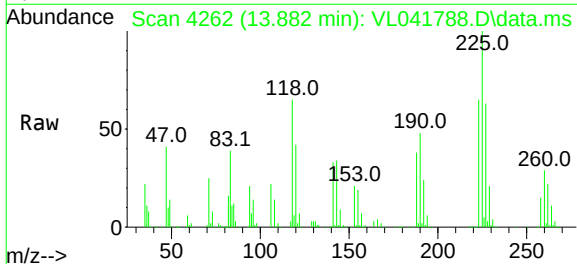
Tgt Ion:146 Resp: 145375
Ion Ratio Lower Upper
146 100
111 50.2 24.8 74.3
148 64.4 31.8 95.4

Manual Integrations
APPROVED

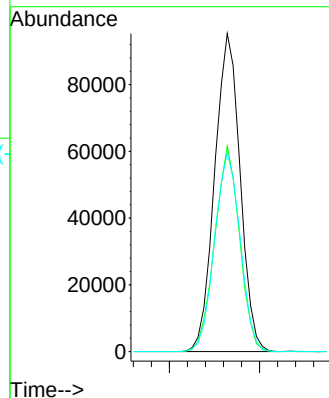
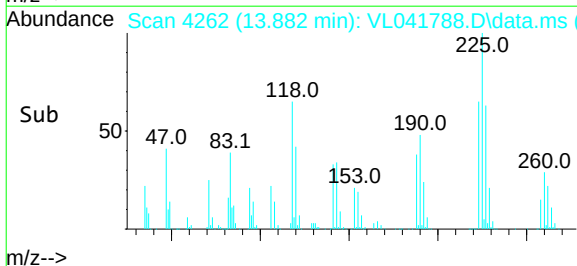
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

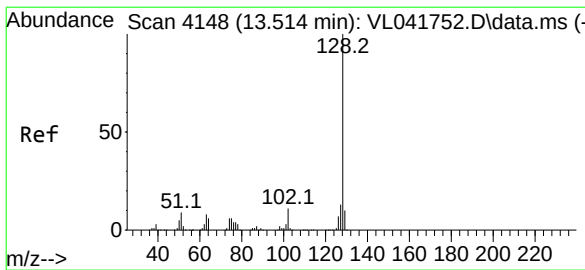


#78
Hexachloro-1,3-Butadiene
Concen: 7.804 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29



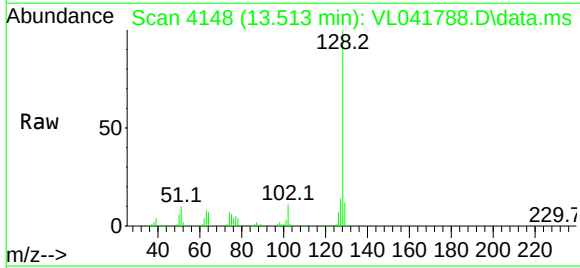
Tgt Ion:225 Resp: 93437
Ion Ratio Lower Upper
225 100
223 62.8 50.5 75.7
227 63.0 50.3 75.5





#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

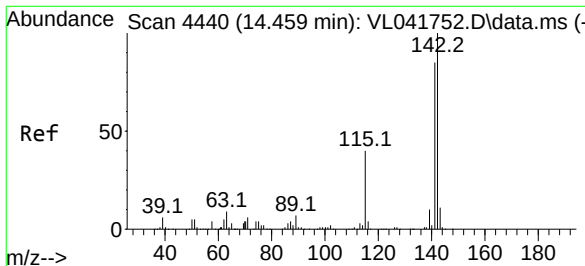
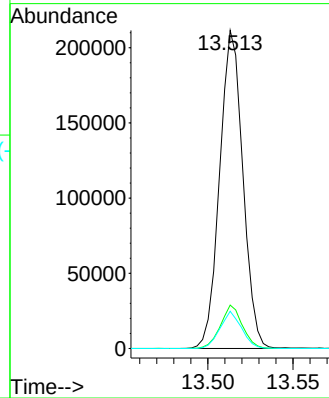
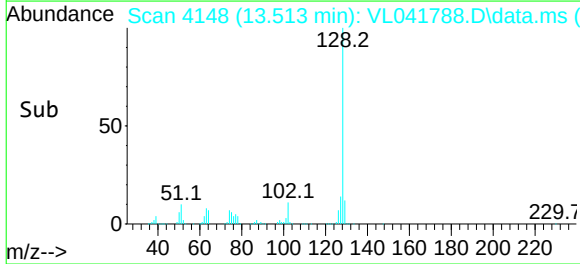
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

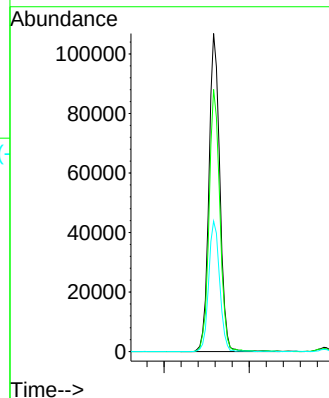
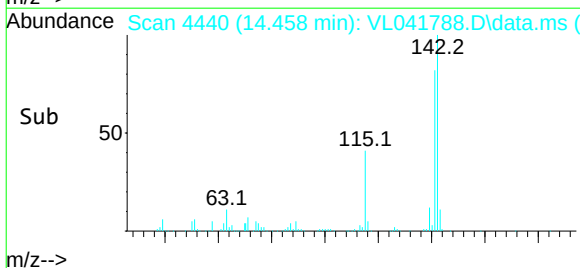
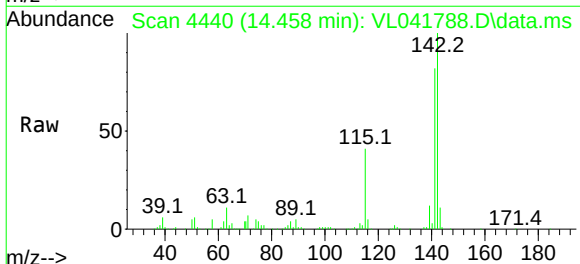
Manual Integrations
APPROVED

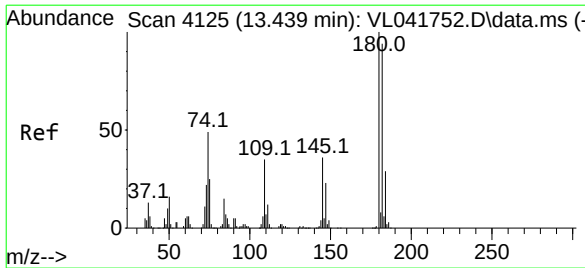
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

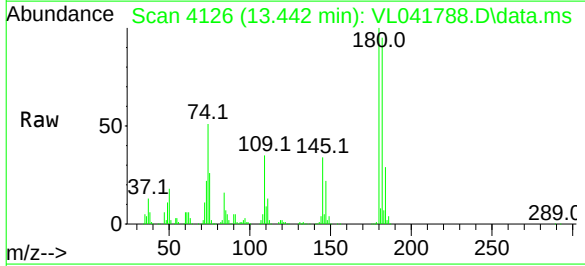
Tgt Ion:	142	Resp:	94903
Ion	Ratio	Lower	Upper
142	100		
141	81.8	68.4	102.6
115	41.3	32.5	48.7





#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

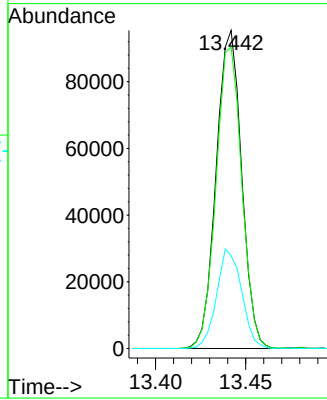
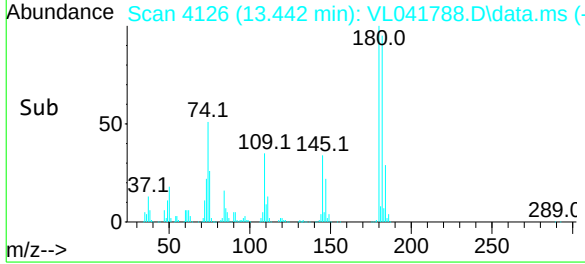
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

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	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	111	0.00
2 T	Dichlorodifluoromethane	10.000	8.340	16.6	98	0.00
3	Chlorodifluoromethane	10.000	9.040	9.6	104	0.00
4	Chloromethane	10.000	9.146	8.5	112	0.00
5 T	Vinyl Chloride	10.000	8.743	12.6	109	0.00
6 T	Bromomethane	10.000	8.821	11.8	110	0.00
7	Chloroethane	10.000	9.269	7.3	110	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.220	7.8	111	0.00
9 T	Propene	10.000	7.708	22.9	95	0.00
10 T	Heptane	10.000	8.087	19.1	95	0.00
11 T	Trichlorofluoromethane	10.000	9.347	6.5	109	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.825	11.8	105	0.00
13	Ethanol	10.000	7.361	26.4	132	0.00
14 T	Bromoethene	10.000	8.974	10.3	102	0.00
15 T	Acetone	10.000	7.522	24.8	111	0.00
16 T	1,3-Butadiene	10.000	9.149	8.5	113	0.00
17	tert-Butyl alcohol	10.000	9.233	7.7	108	0.00
18 T	1,1-Dichloroethene	10.000	8.996	10.0	106	0.00
19 T	Isopropyl Alcohol	10.000	7.303	27.0	110	0.00
20 T	Methylene Chloride	10.000	8.462	15.4	109	0.00
21 T	Allyl Chloride	10.000	9.281	7.2	107	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.641	13.6	103	0.00
23 T	Vinyl Acetate	10.000	7.673	23.3	97	0.00
24 T	1,1-Dichloroethane	10.000	9.020	9.8	107	0.00
25 T	Ethyl Acetate	10.000	8.675	13.2	101	0.00
26 T	Hexane	10.000	8.386	16.1	98	0.00
27 T	Carbon Disulfide	10.000	9.064	9.4	92	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.021	19.8	90	0.00
29 T	Chloroform	10.000	9.143	8.6	108	0.00
30 T	Cyclohexane	10.000	8.366	16.3	99	0.00
31 T	cis-1,2-Dichloroethene	10.000	8.567	14.3	101	0.00
32 T	1,1,1-Trichloroethane	10.000	8.902	11.0	104	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	108	0.00
34 T	2-Butanone	10.000	8.742	12.6	103	0.00
35 T	Carbon Tetrachloride	10.000	10.490	-4.9	106	0.00
36 T	Benzene	10.000	8.680	13.2	99	0.00
37 T	1,2-Dichloroethane	10.000	9.509	4.9	109	0.00
38 T	Trichloroethene	10.000	8.057	19.4	98	0.00
39 T	1,2-Dichloropropane	10.000	8.645	13.6	99	0.00
40 T	1,4-Dioxane	10.000	8.347	16.5	99	0.00
41 T	Tetrahydrofuran	10.000	8.359	16.4	95	0.00
42 T	Bromodichloromethane	10.000	9.588	4.1	99	0.00
43	Methyl Methacrylate	10.000	8.895	11.1	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	8.627	13.7	98	0.00
45 T	t-1,3-Dichloropropene	10.000	8.607	13.9	90	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.701	13.0	91	0.00
47 T	1,1,2-Trichloroethane	10.000	8.736	12.6	100	0.00
48 T	Dibromochloromethane	10.000	9.625	3.8	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	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	9.655	3.5	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.600	14.0	96	0.00
51 T	2-Hexanone	10.000	8.472	15.3	95	0.00
52 T	Tetrachloroethene	10.000	7.824	21.8	95	0.00
53 T	Toluene	10.000	8.389	16.1	95	0.00
54 T	1,2-Dibromoethane	10.000	8.814	11.9	100	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	105	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.626	3.7	101	0.00
57 T	Chlorobenzene	10.000	8.912	10.9	101	0.00
58 T	Ethyl Benzene	10.000	9.074	9.3	97	0.00
59 T	m/p-Xylene	20.000	18.725	6.4	101	0.00
60 T	o-Xylene	10.000	9.283	7.2	100	0.00
61 T	Styrene	10.000	9.550	4.5	94	0.00
62	Isopropylbenzene	10.000	9.397	6.0	101	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.216	7.8	105	0.00
64	n-propylbenzene	10.000	9.483	5.2	103	0.00
65	tert-Butylbenzene	10.000	9.295	7.1	102	0.00
66 T	Benzyl Chloride	10.000	7.426	25.7	71	0.00
67	sec-Butylbenzene	10.000	9.431	5.7	103	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.503	-5.0	109	0.00
69	p-Isopropyltoluene	10.000	9.569	4.3	102	0.00
70	n-Butylbenzene	10.000	9.999	0.0	104	0.00
71	2-Chlorotoluene	10.000	9.240	7.6	100	0.00
72 T	4-Ethyltoluene	10.000	9.676	3.2	101	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.918	0.8	101	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.003	-0.0	103	0.00
75 T	1,3-Dichlorobenzene	10.000	9.227	7.7	102	0.00
76 T	1,4-Dichlorobenzene	10.000	9.296	7.0	101	0.00
77 T	1,2-Dichlorobenzene	10.000	9.002	10.0	103	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.804	22.0	98	0.00
79 T	Naphthalene	10.000	10.921	-9.2	97	0.00
80 T	Naphthalene,2-methyl-	10.000	16.728	-67.3#	89	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.346	6.5	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



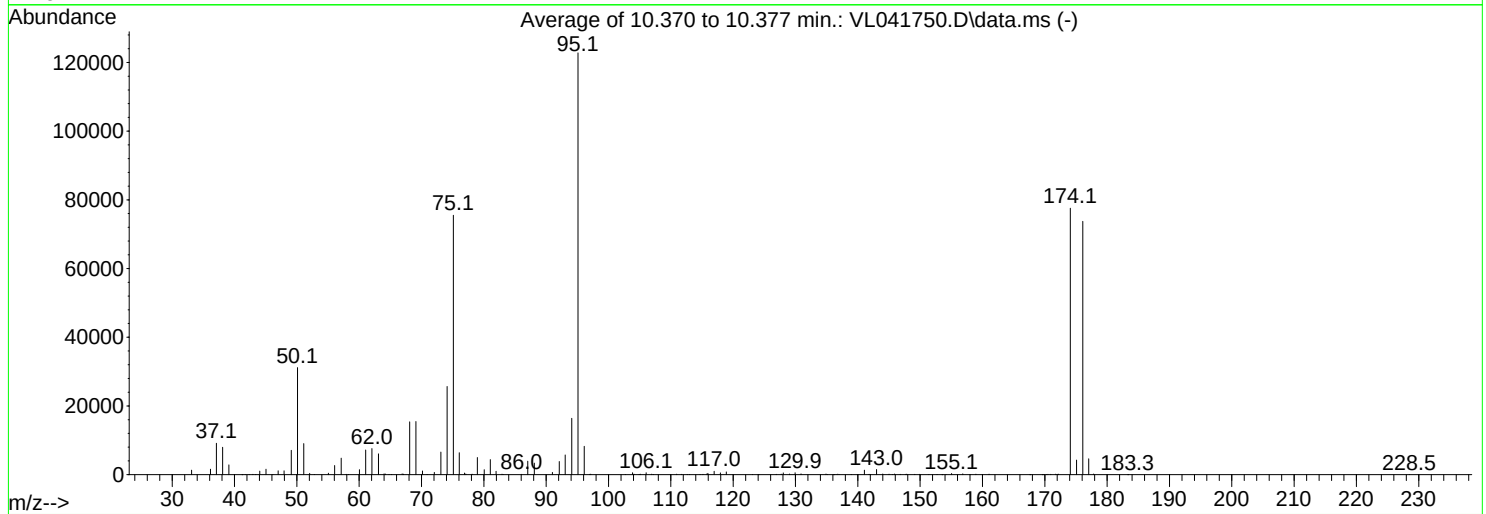
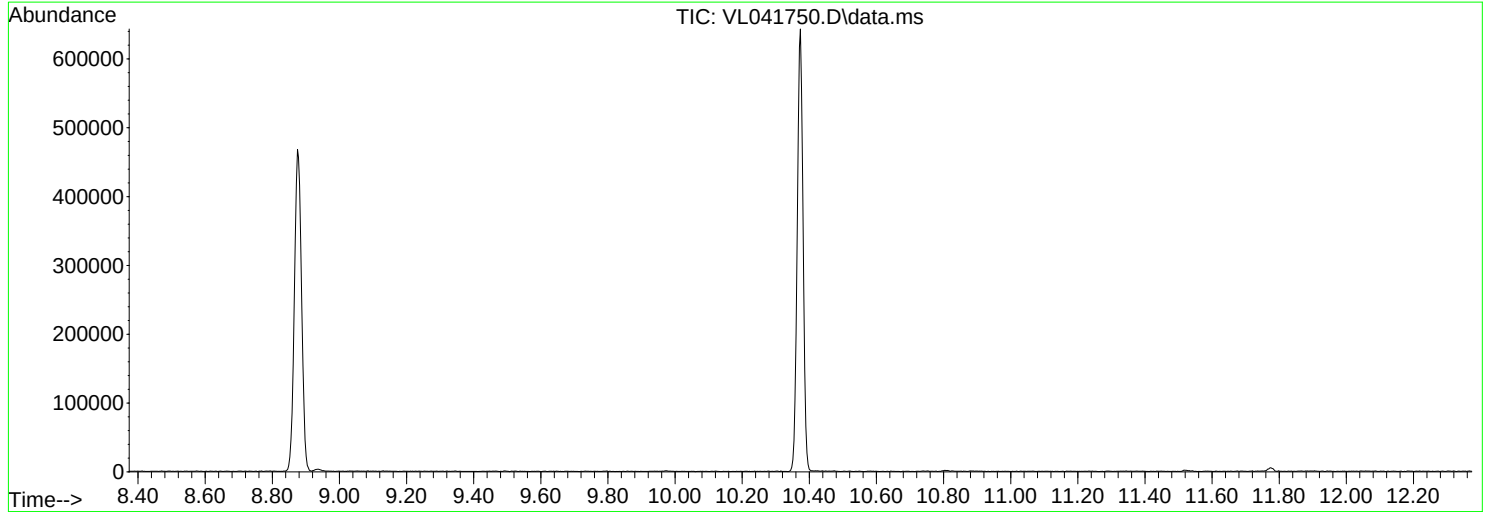
QC SAMPLE DATA

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

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1322	44.05	1016	56.05	2649	65.20	61
36.15	1587	45.05	1575	57.10	4784	66.90	24
37.10	9134	46.15	66	57.90	94	67.10	12
38.10	7991	47.00	1132	58.30	32	68.10	1535
39.10	2839	47.95	1114	60.05	1454	69.10	15463
40.00	41	49.10	7069	61.05	7192	70.15	1071
41.20	26	50.10	31157	62.05	7600	70.90	28
41.70	49	51.10	9016	63.10	6081	72.05	651
42.35	60	52.05	392	64.00	224	73.10	6573
42.95	115	52.80	56	64.20	202	74.10	25661
43.40	59	55.05	422	64.80	43	75.10	75504

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	6364	87.05	3899	103.85	544	113.00	66
76.90	489	88.10	3363	104.10	151	114.70	31
77.10	175	91.00	654	104.90	42	115.15	90
78.10	122	92.10	3845	105.10	151	115.80	221
78.95	4994	93.05	5724	106.05	566	115.95	358
80.05	1429	94.10	16382	106.95	120	116.95	974
81.05	4383	95.10	122797	107.20	40	117.95	511
81.95	969	96.10	8239	109.95	51	118.90	777
82.90	123	97.00	110	110.95	130	123.10	50
83.10	33	97.15	142	111.70	88	124.00	17
86.05	99	102.70	65	112.65	61	126.90	78

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.70	134	138.95	48	147.70	72	158.95	148
128.05	509	140.00	35	147.85	142	161.05	144
129.05	205	141.05	1317	149.15	97	167.60	18
129.95	553	141.80	73	149.90	118	169.60	17
130.90	245	142.00	67	151.40	43	169.90	39
134.90	170	143.00	1489	152.70	31	170.30	41
135.10	61	144.00	186	153.50	25	170.50	88
136.10	17	145.00	136	154.15	44	170.95	118
136.50	51	145.60	39	155.05	332	171.75	129
136.80	153	145.90	181	156.85	228	172.00	95
137.00	50	146.80	77	158.00	44	172.20	138

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.10	77565						
175.10	4234						
176.10	73717						
177.05	4630						
177.85	181						
183.30	17						
228.50	47						

Instrument :

MSVOA_L

ClientSampleId :

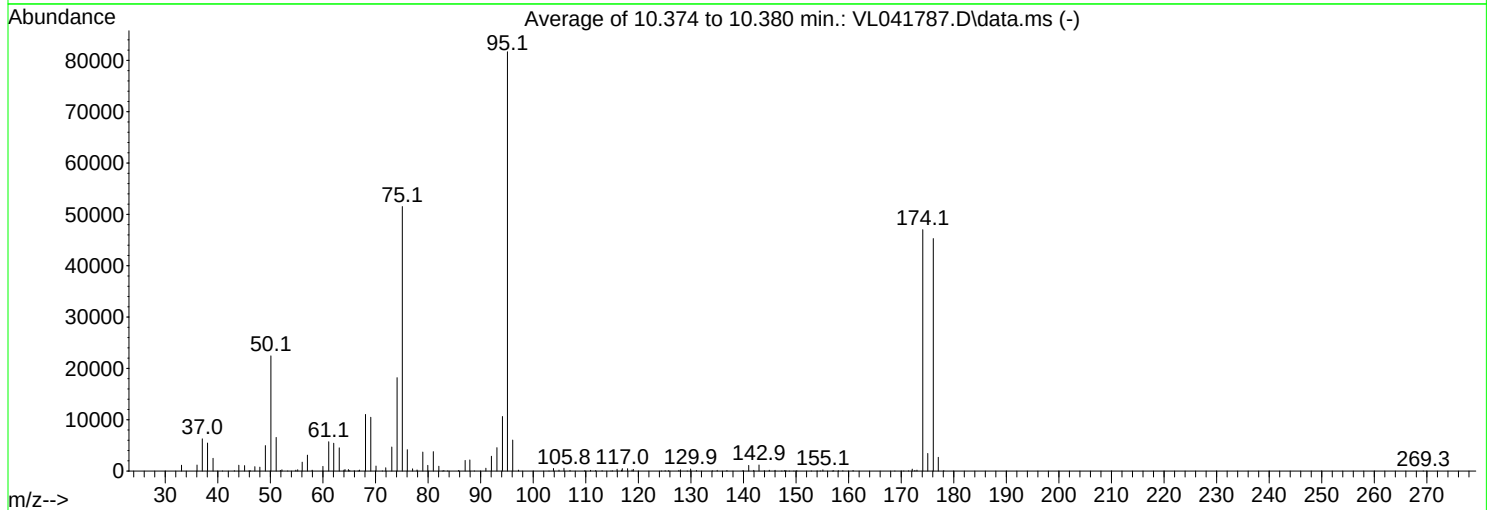
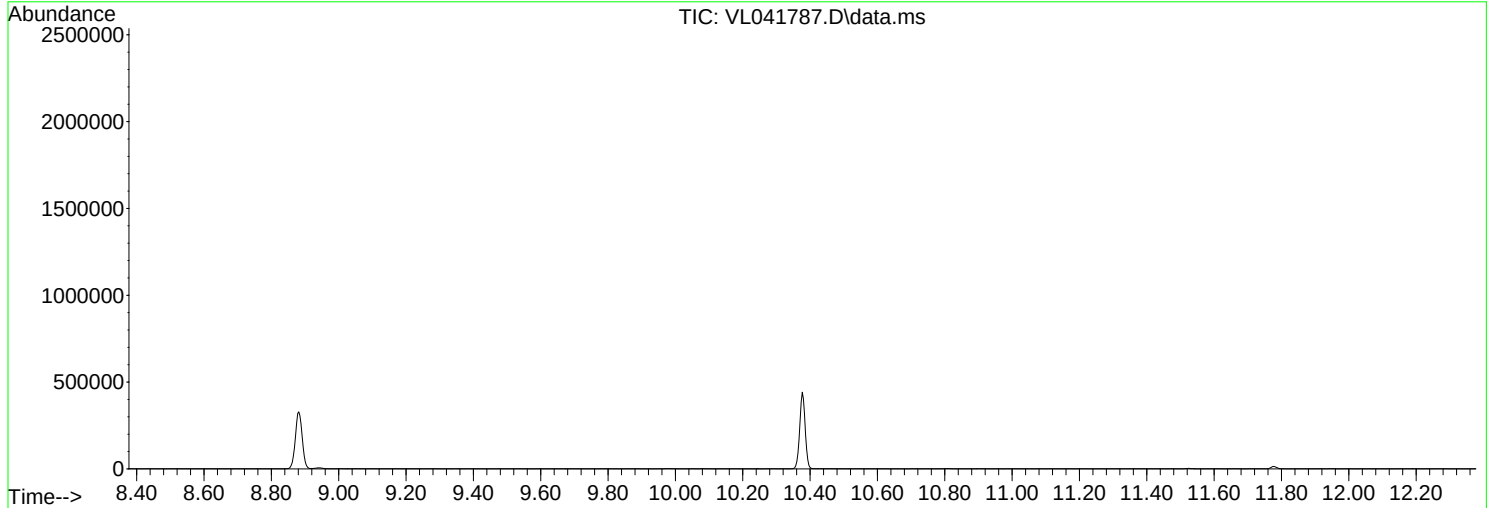
BFB

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

Average of 10.374 to 10.380 min.: VL041787.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1141	47.05	858	57.05	3102	66.70	47
36.05	1180	48.00	764	57.95	178	66.95	200
37.05	6288	49.05	4965	60.00	923	68.10	11038
38.05	5467	50.10	22445	61.10	5714	69.10	10482
39.10	2494	51.10	6553	62.05	5427	70.10	981
40.90	31	51.90	123	63.10	4527	71.30	41
43.15	73	52.20	256	64.00	189	71.95	649
44.00	1141	53.30	30	64.20	301	73.10	4685
45.10	1066	54.85	179	64.85	304	74.10	18195
45.95	73	55.20	262	65.10	104	75.10	51533
46.20	47	56.05	1736	65.95	70	76.05	4174

Average of 10.374 to 10.380 min.: VL041787.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	436	87.95	2170	104.90	187	116.95	484
77.90	224	88.80	41	105.85	548	117.95	466
79.00	3700	91.00	562	107.00	137	118.80	212
79.95	1115	92.05	2894	109.75	61	119.05	329
81.00	3787	93.10	4562	110.90	154	124.40	18
82.05	950	94.15	10629	111.85	82	125.10	79
82.70	32	95.10	81685	113.10	84	125.75	80
83.00	122	96.10	6040	114.80	31	127.70	141
83.75	45	97.20	186	115.10	55	128.00	257
85.80	123	103.00	19	115.95	361	129.30	28
87.05	2079	103.85	509	116.80	188	129.95	400

Average of 10.374 to 10.380 min.: VL041787.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.05	108	147.30	17	157.15	89	175.05	3435
134.10	38	147.85	124	158.05	61	176.10	45299
135.00	142	148.10	54	158.90	87	177.05	2683
136.85	125	148.70	21	160.85	126	178.10	67
139.90	91	149.60	20	168.80	17	269.30	24
141.00	1101	150.15	64	170.50	21		
141.95	144	152.90	26	171.40	50		
142.95	1185	154.00	17	172.10	387		
143.95	74	154.60	41	172.60	118		
144.90	164	155.10	249	173.00	189		
146.00	151	156.90	28	174.10	47024		

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36719	Date Received:	
Client Sample ID:	VL1218ABL02	SDG No.:	P5294
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.:	P5294
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.:	P5294
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%

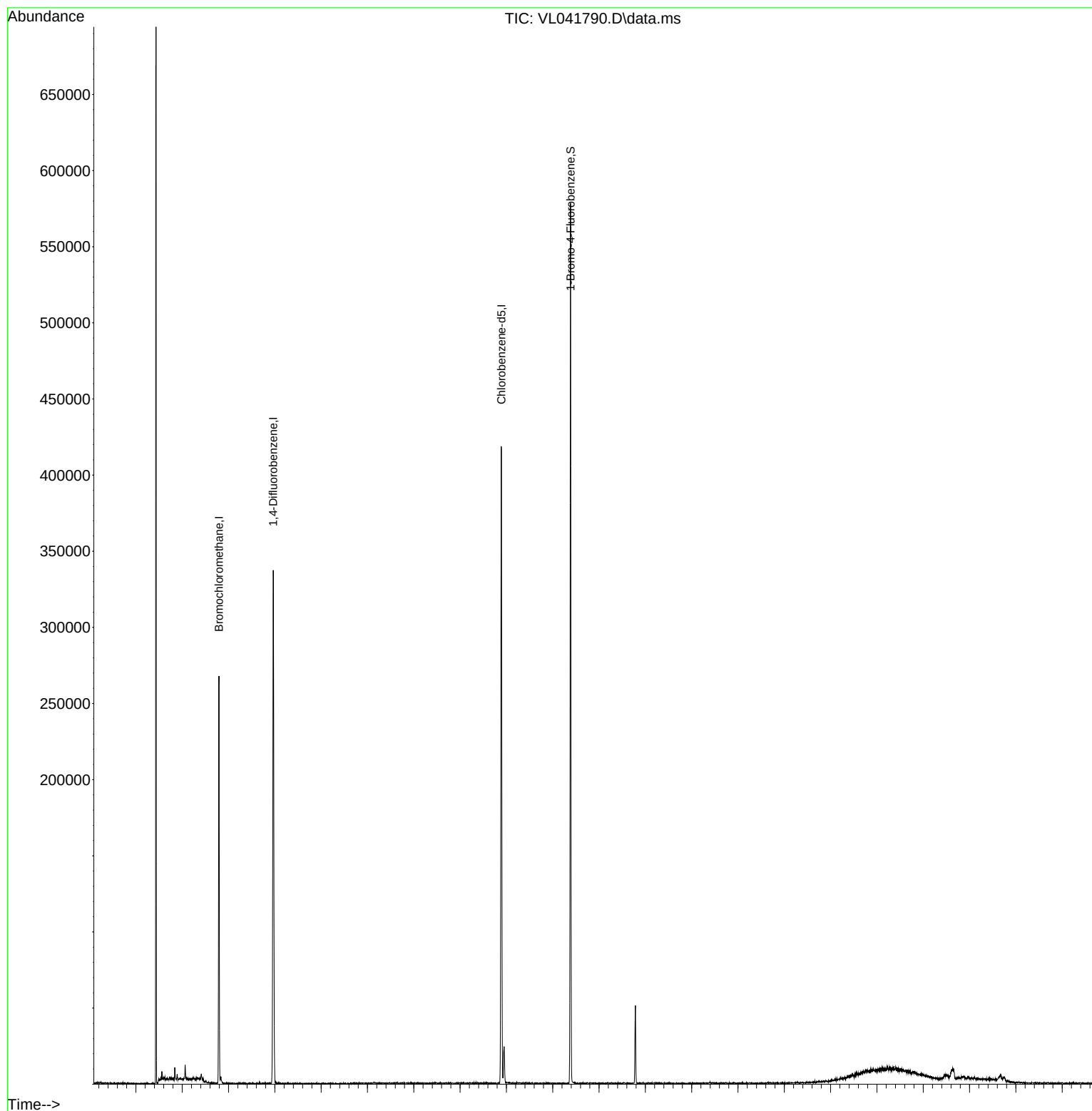
Target Compounds	Qvalue

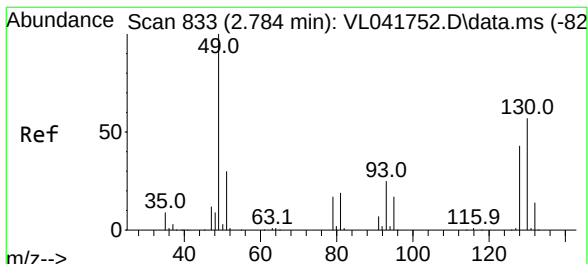
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

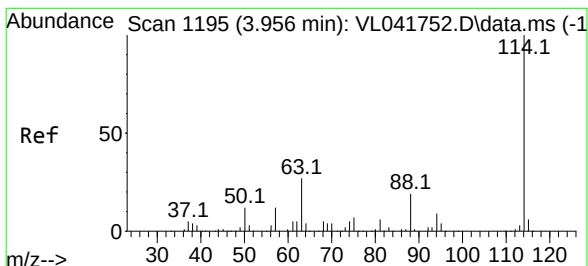
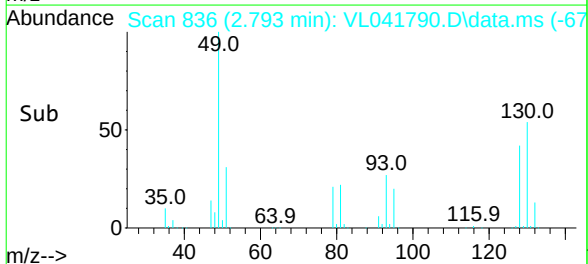
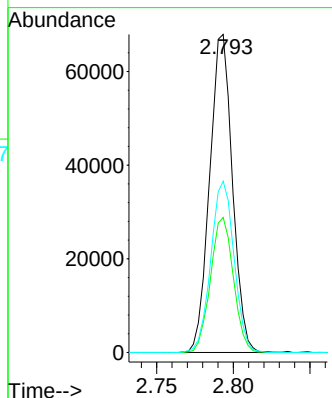
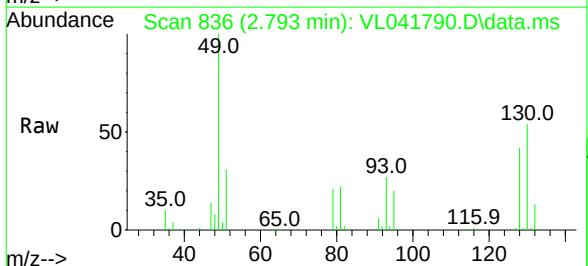




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 83
 Delta R.T. 0.009 min
 Lab File: VL041790.D
 Acq: 18 Dec 2024 12:28

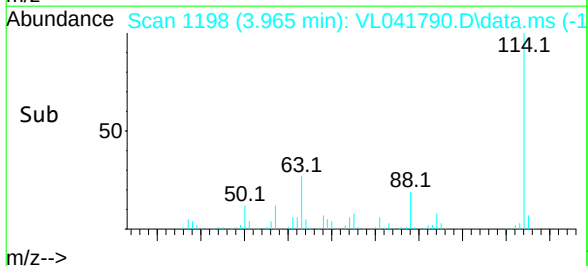
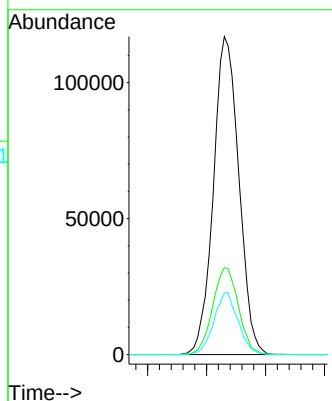
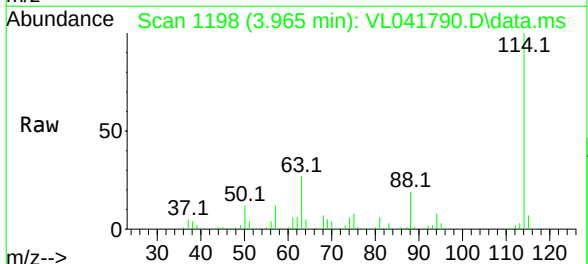
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABL02

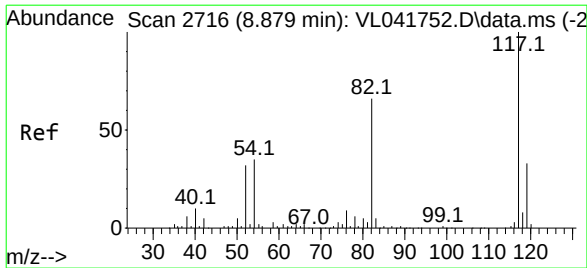
Tgt Ion:	49	Resp:	70249
Ion	Ratio	Lower	Upper
49	100		
128	42.7	21.6	64.6
130	55.0	28.3	85.0



#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

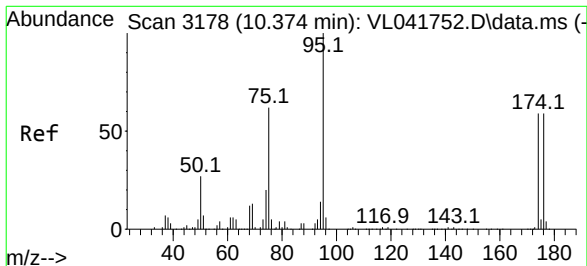
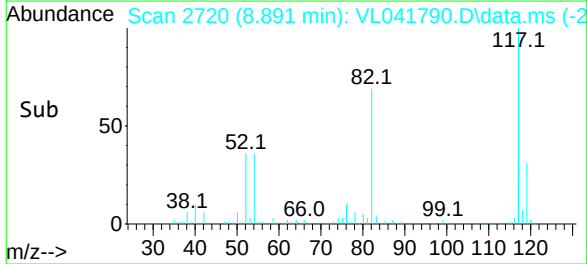
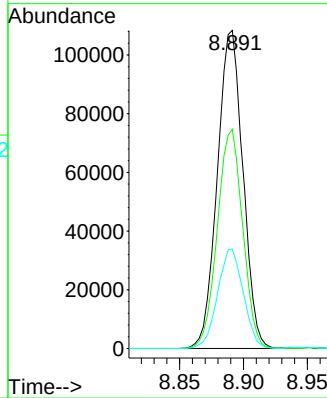
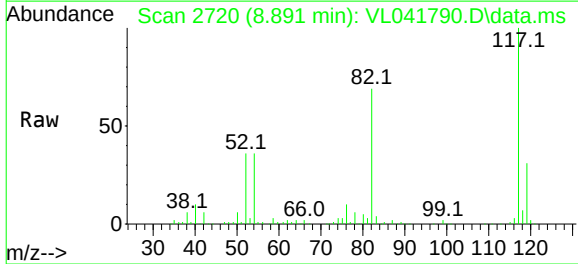




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2716
Delta R.T. 0.013 min
Lab File: VL041790.D
Acq: 18 Dec 2024 12:28

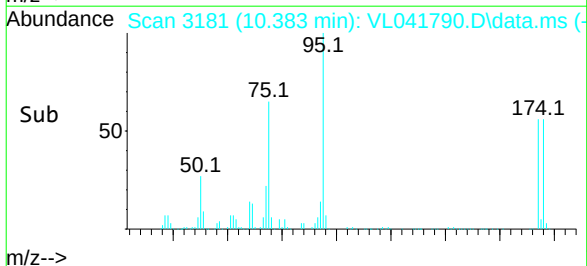
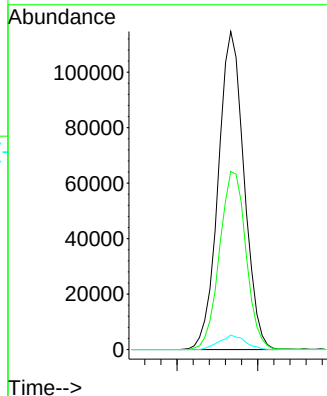
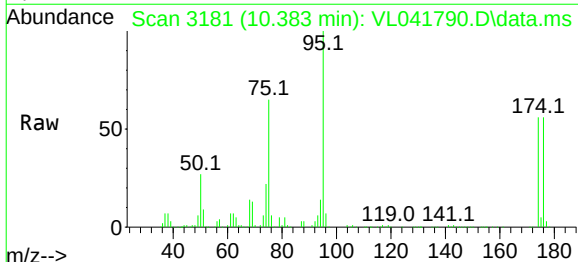
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABL02

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.:	P5294
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.:	P5294
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.:	P5294
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

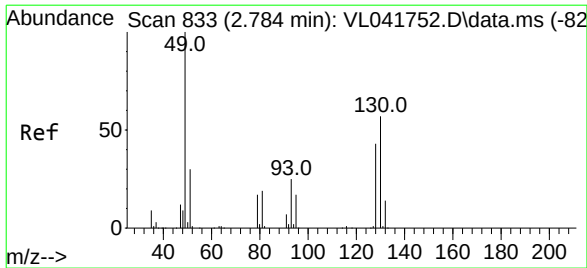
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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



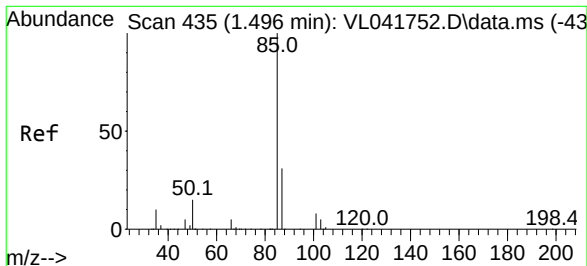
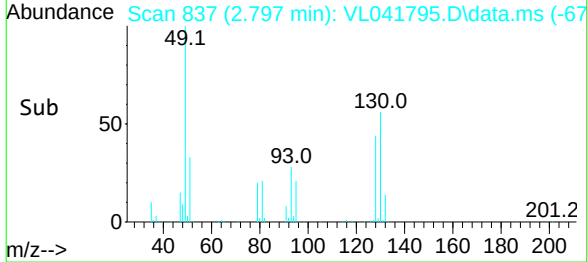
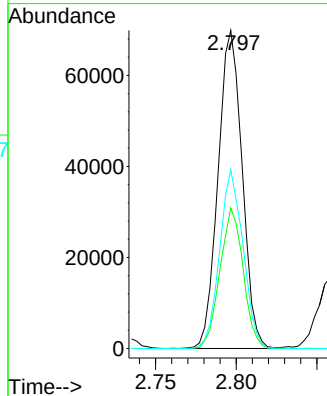
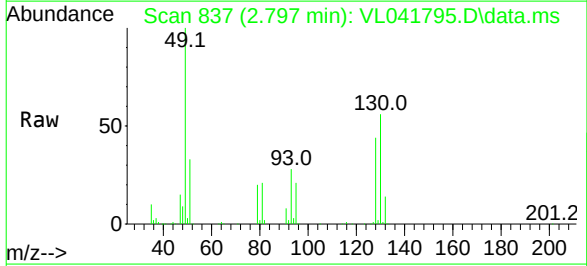
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 833
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

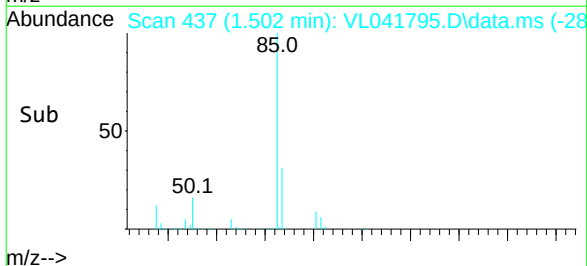
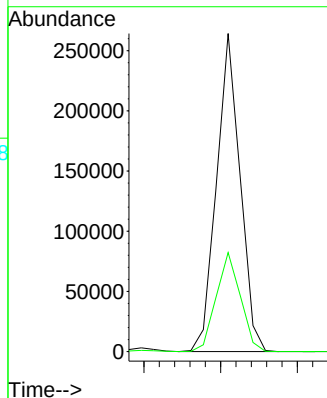
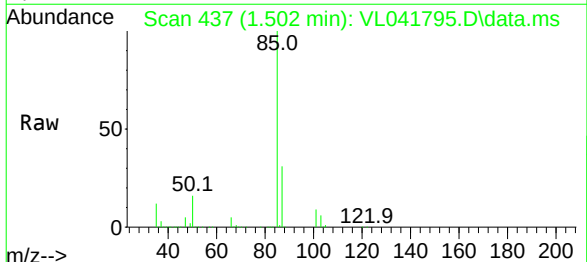
Manual Integrations
APPROVED

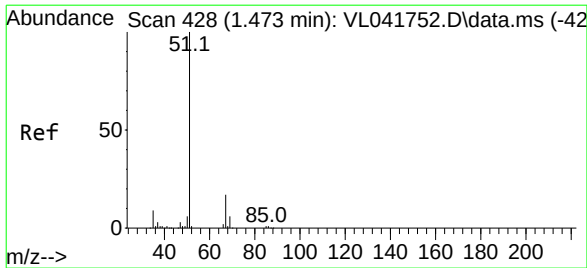
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





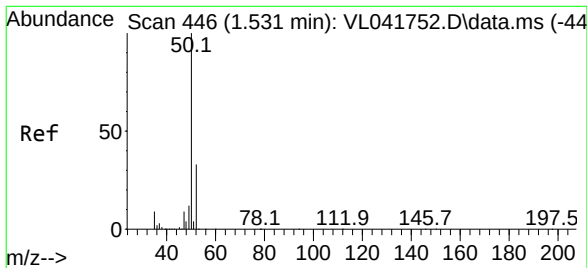
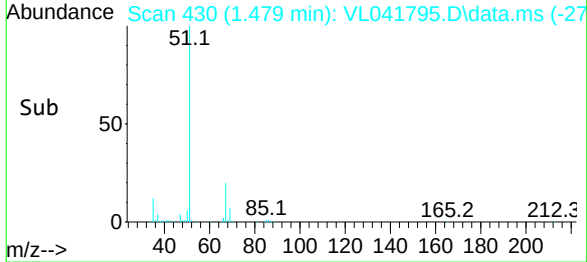
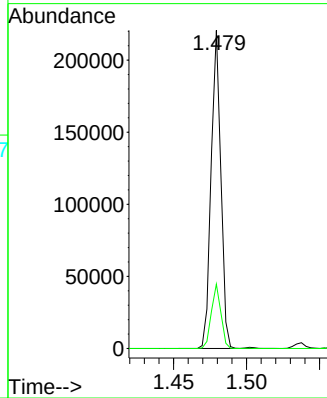
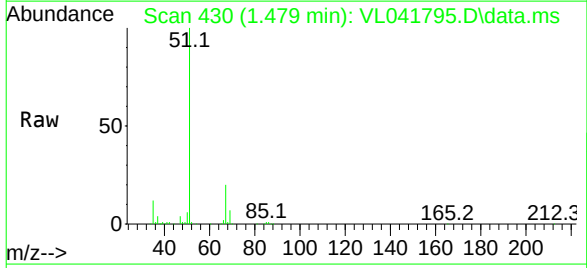
#3
Chlorodifluoromethane
Concen: 8.633 ppbv
RT: 1.479 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 51 Resp: 102210
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.4

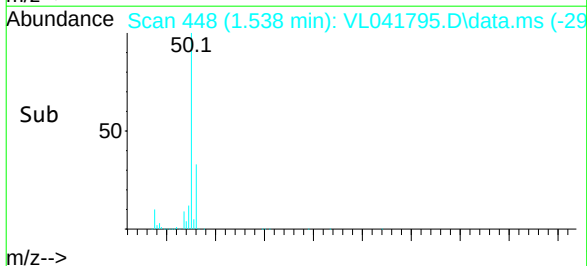
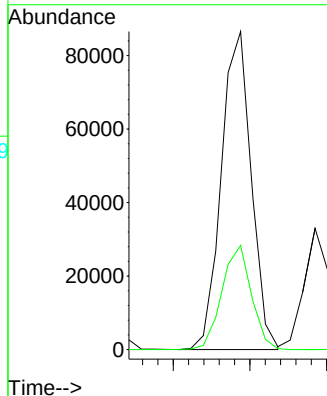
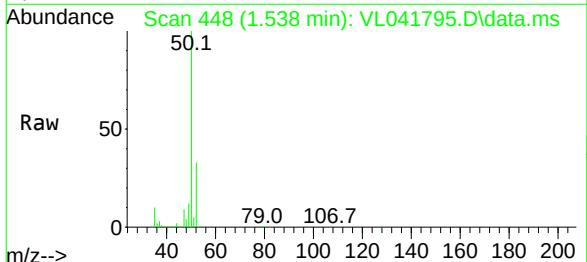
Manual Integrations
APPROVED

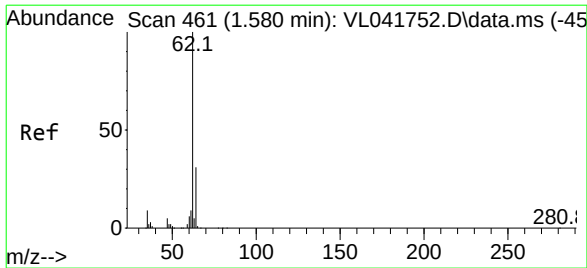
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

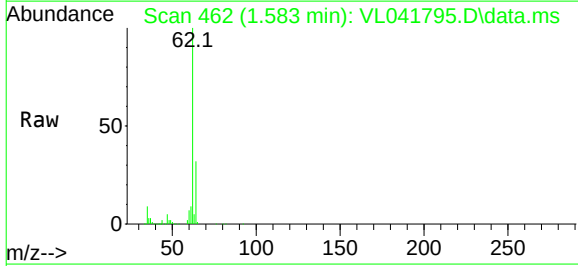
Tgt Ion: 50 Resp: 46901
Ion Ratio Lower Upper
50 100
52 32.7 26.2 39.2





#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

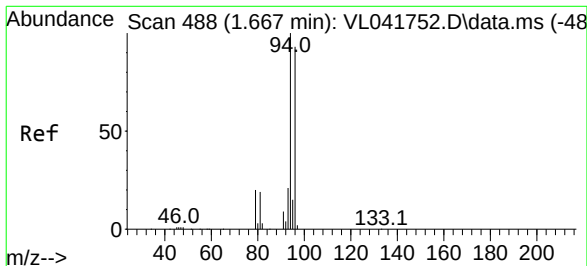
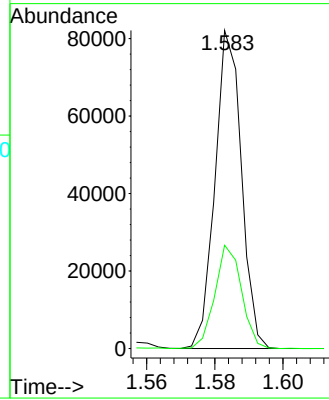
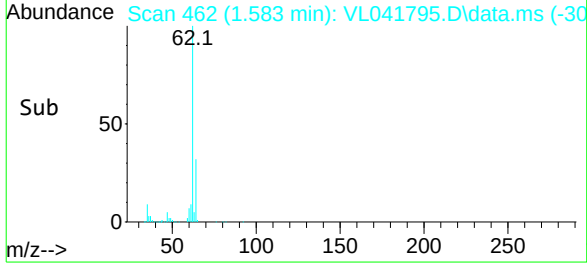
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01



Tgt Ion: 62 Resp: 44104
 Ion Ratio Lower Upper
 62 100
 64 32.5 25.1 37.7

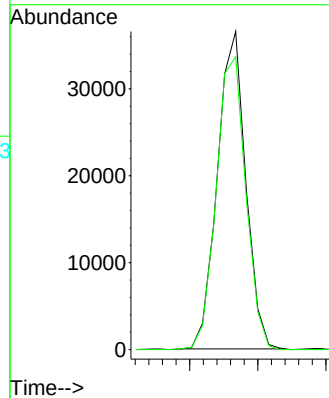
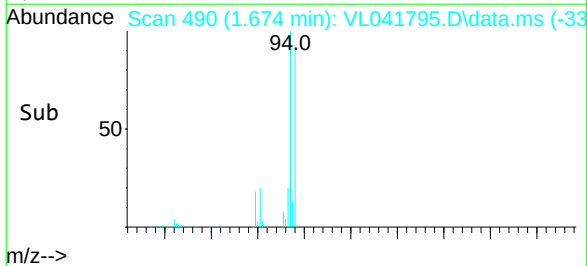
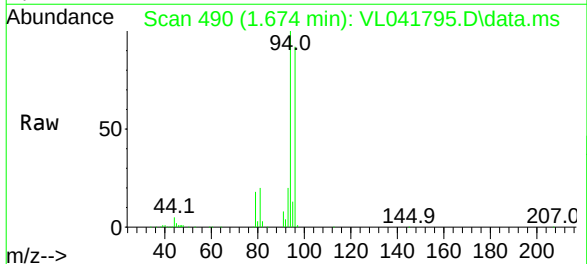
Manual Integrations
 APPROVED

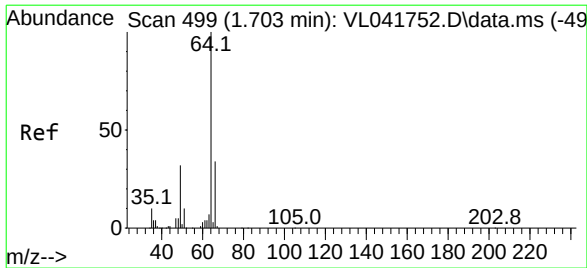
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024



#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





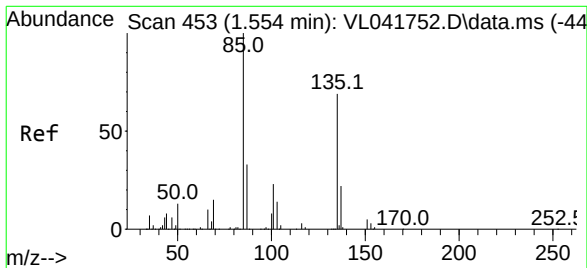
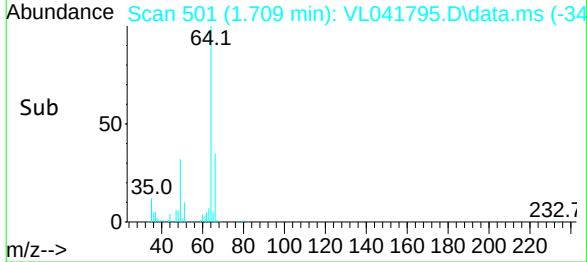
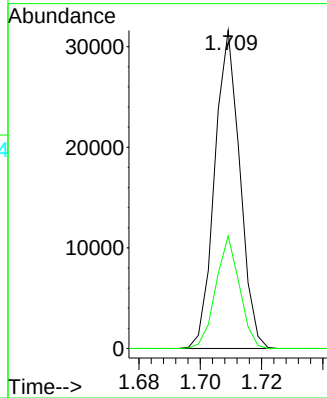
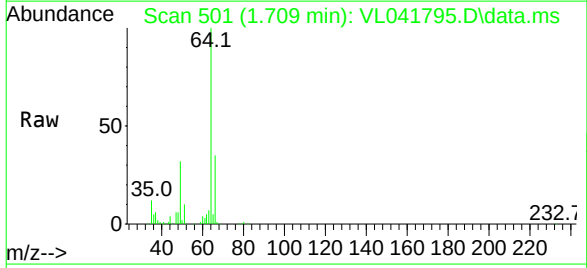
#7
Chloroethane
Concen: 9.123 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 64 Resp: 18047
Ion Ratio Lower Upper
64 100
66 35.4 27.5 41.3

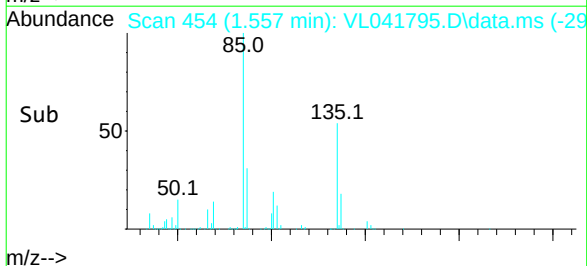
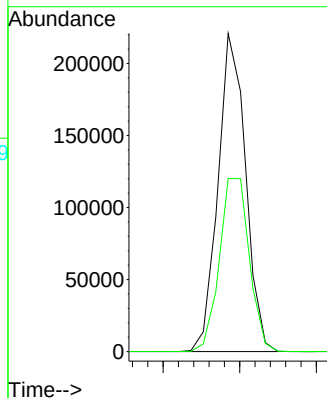
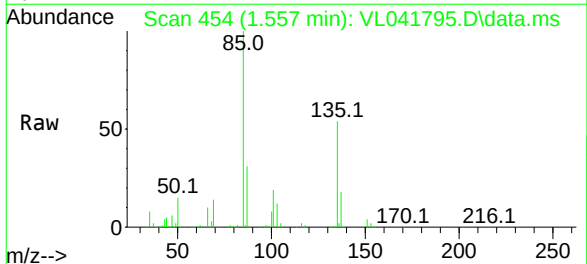
Manual Integrations
APPROVED

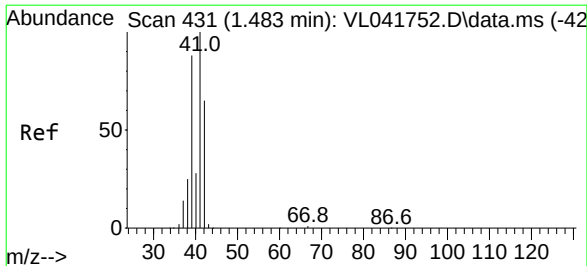
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

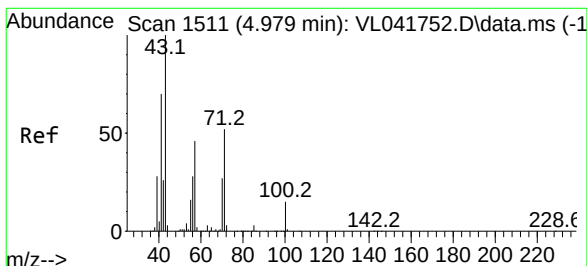
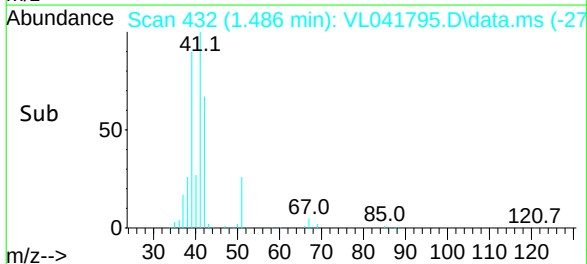
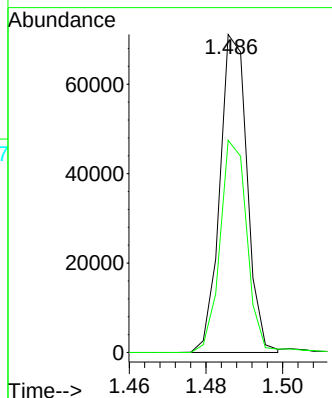
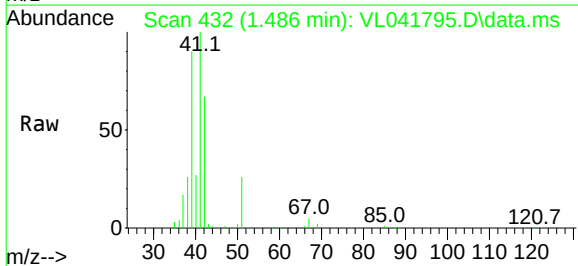
42 67.4 52.4 78.6

Manual Integrations

APPROVED

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

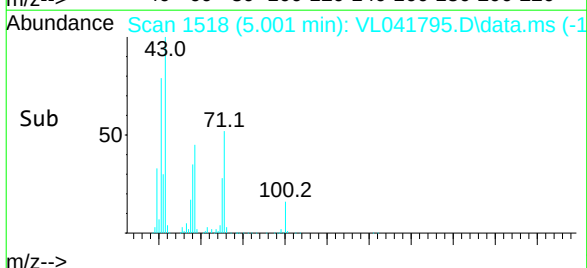
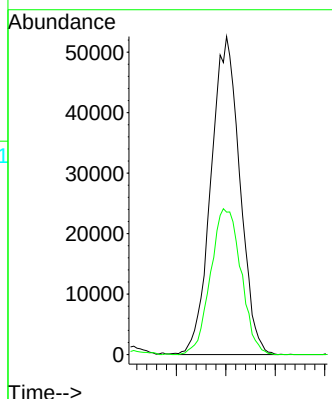
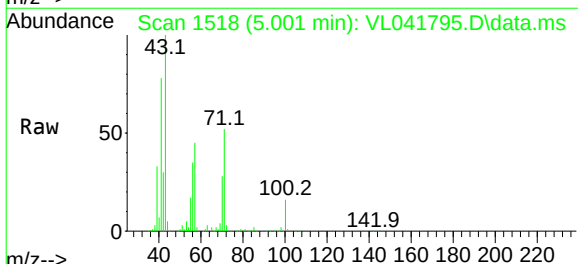
Acq: 18 Dec 2024 16:06

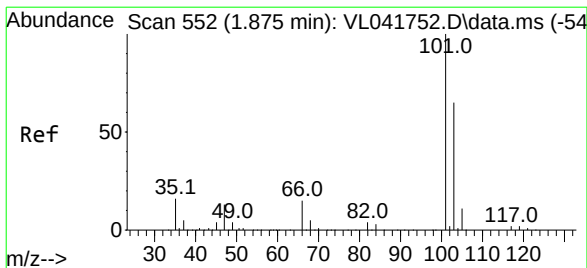
Tgt Ion: 43 Resp: 106572

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

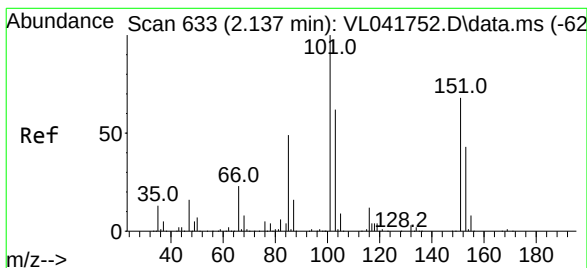
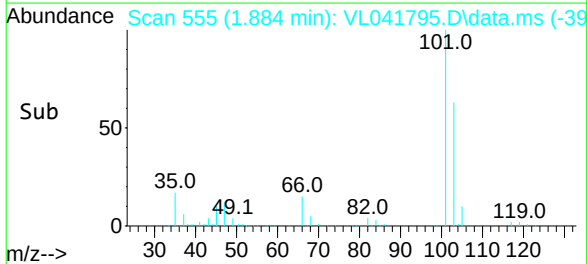
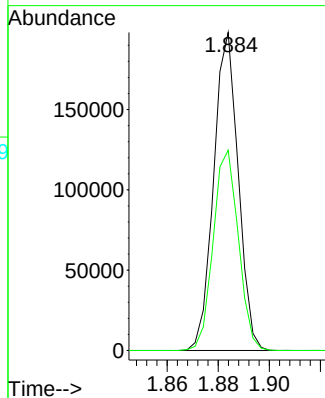
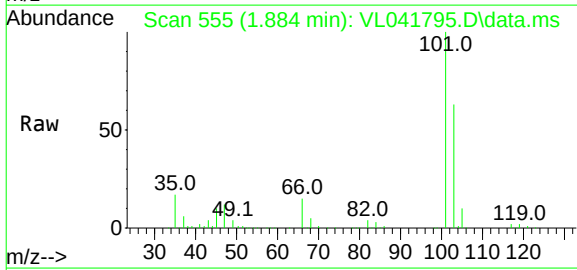
103 62.9 51.8 77.8

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

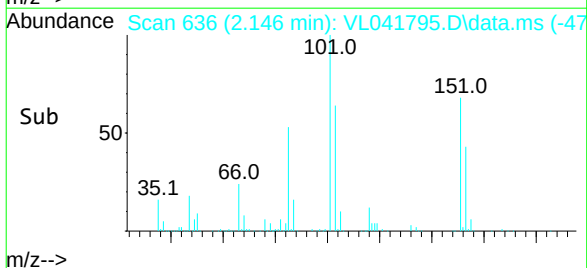
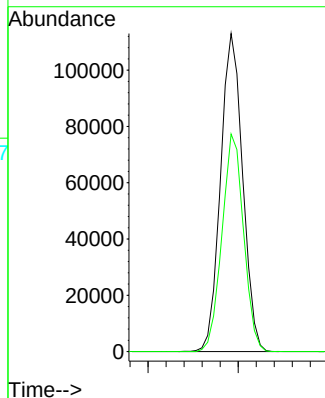
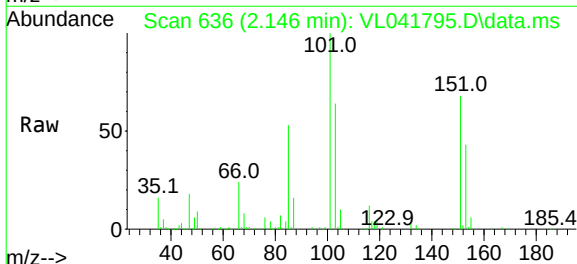
Acq: 18 Dec 2024 16:06

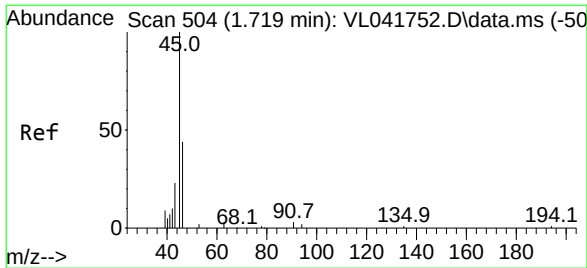
Tgt Ion:101 Resp: 96243

Ion Ratio Lower Upper

101 100

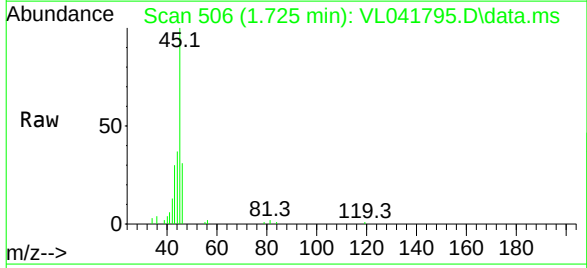
151 66.8 56.8 85.2





#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

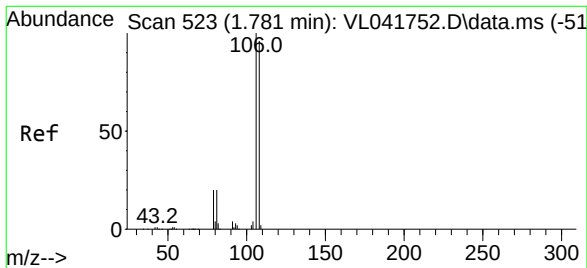
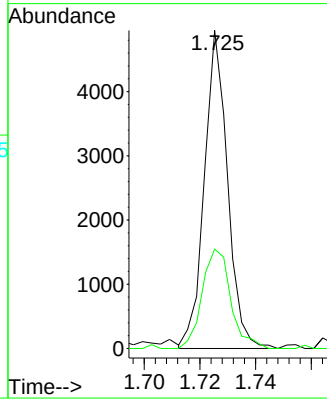
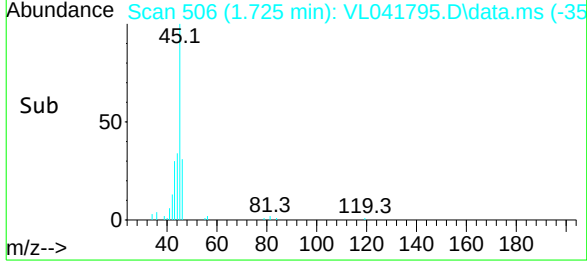
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



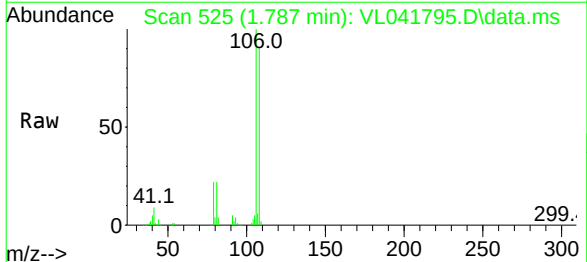
Tgt Ion: 45 Resp: 2865
Ion Ratio Lower Upper
45 100
46 39.7 16.4 65.8

Manual Integrations
APPROVED

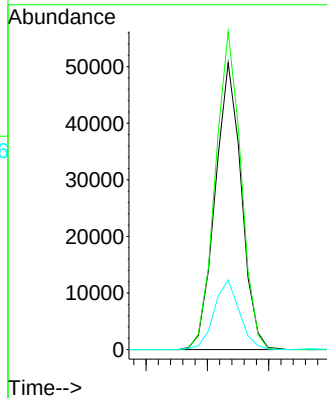
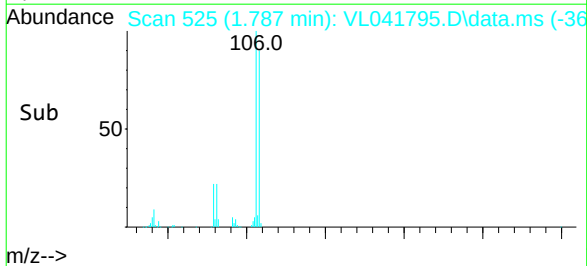
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

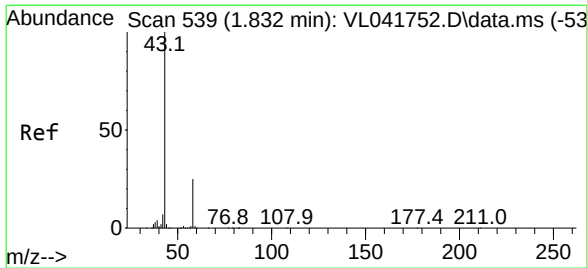


#14
Bromoethene
Concen: 8.533 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



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





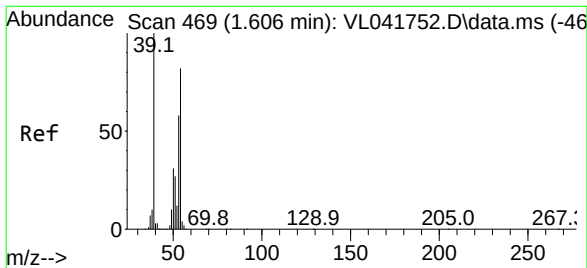
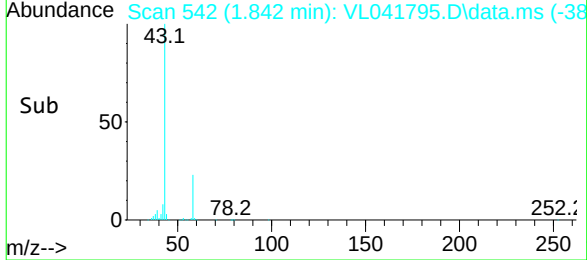
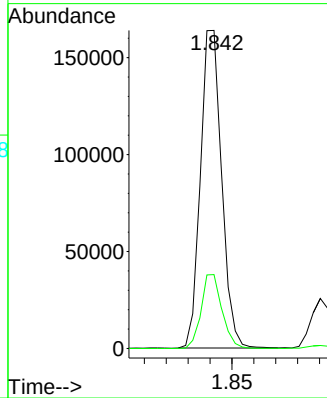
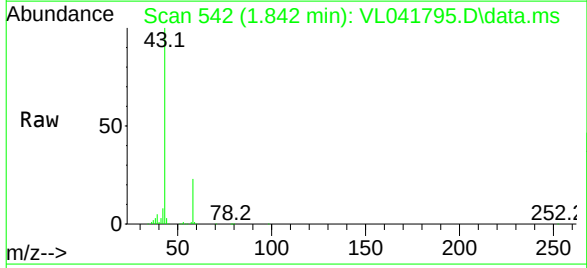
#15
Acetone
Concen: 7.807 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 43 Resp: 110277
Ion Ratio Lower Upper
43 100
58 23.0 19.7 29.5

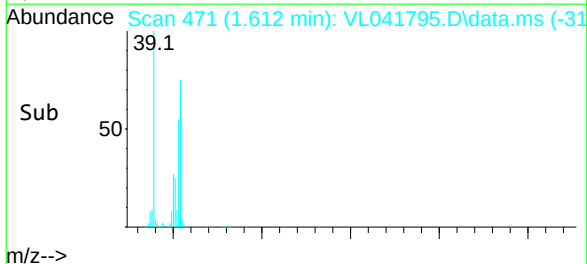
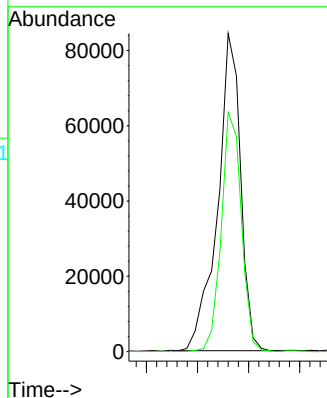
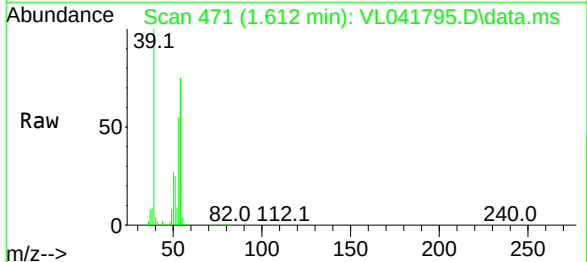
Manual Integrations
APPROVED

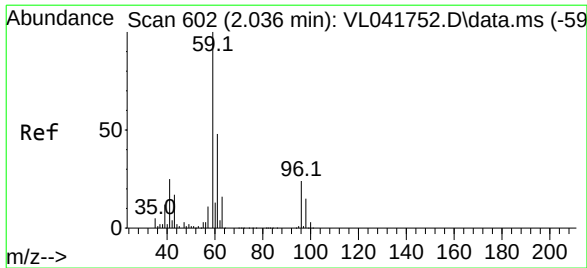
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

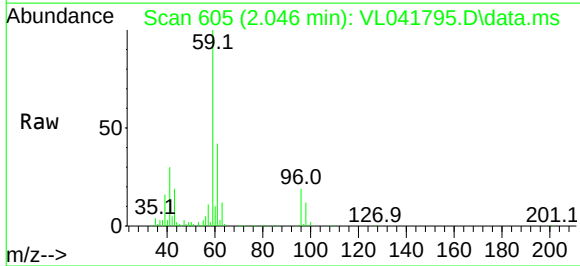
Tgt Ion: 39 Resp: 52562
Ion Ratio Lower Upper
39 100
54 66.3 58.4 87.6





#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

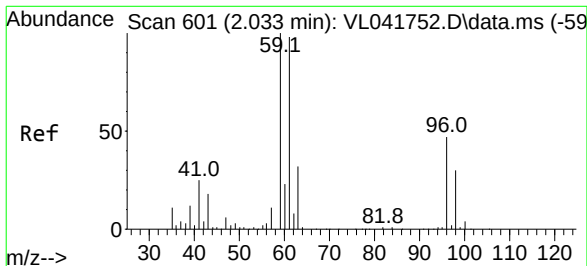
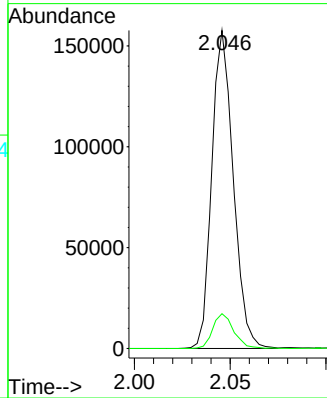
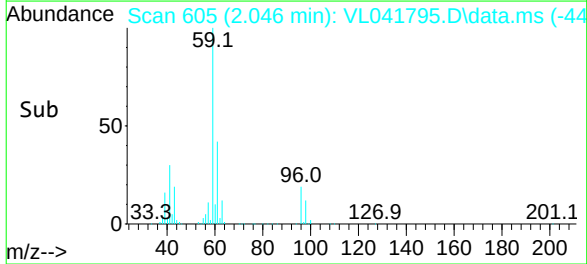
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



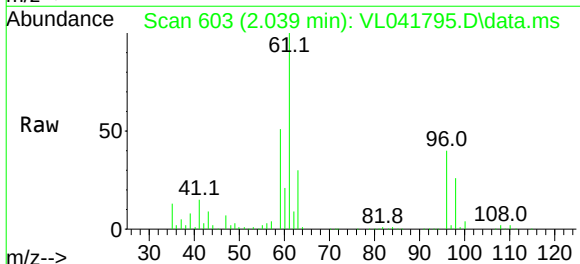
Tgt Ion: 59 Resp: 122872
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0

Manual Integrations
APPROVED

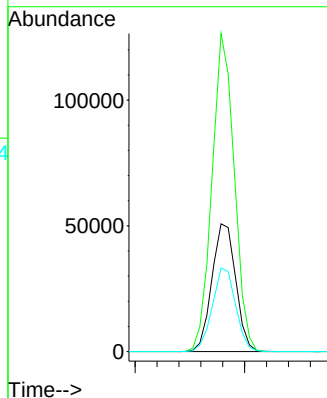
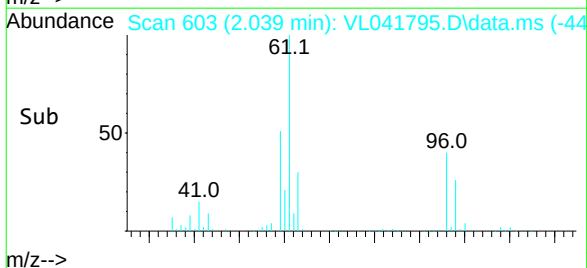
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

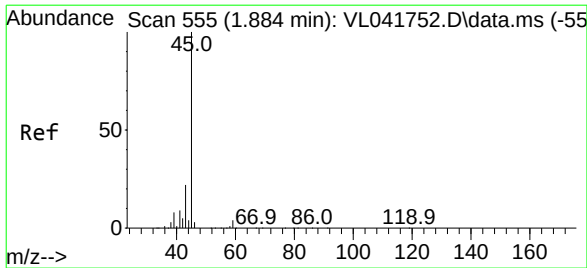


#18
1,1-Dichloroethene
Concen: 8.780 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



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

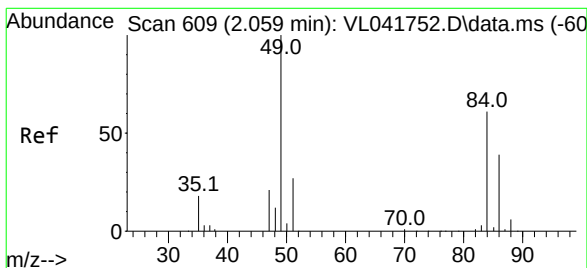
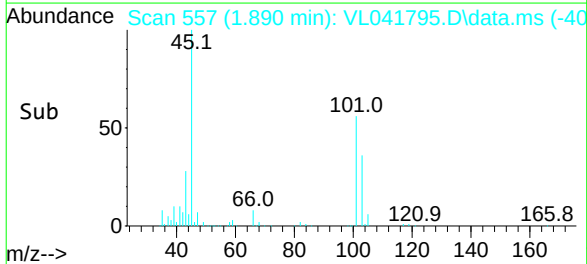
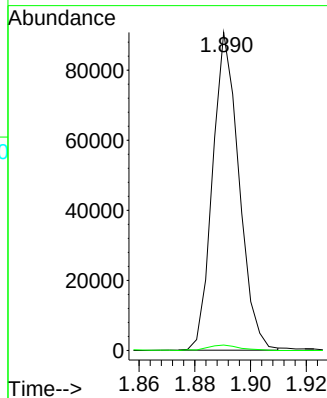
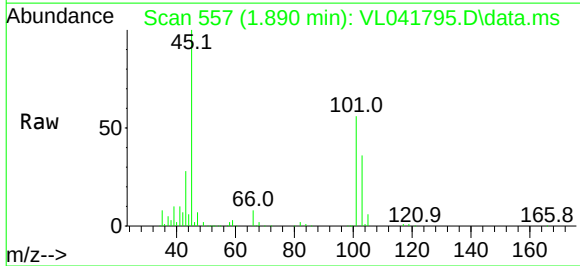
58 2.1 33.3 49.9#

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

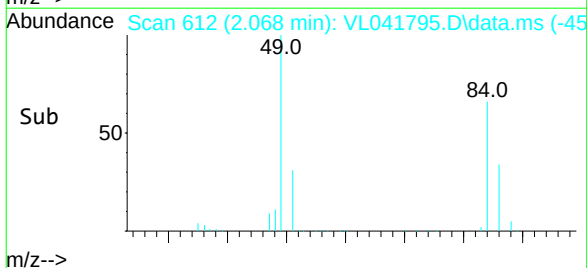
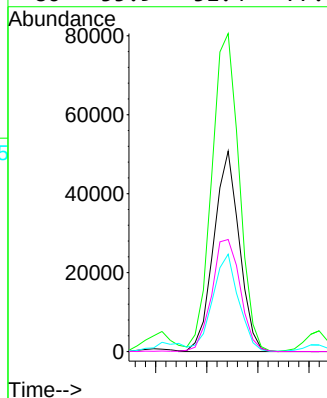
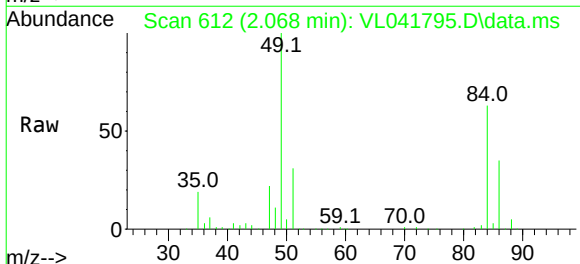
Ion Ratio Lower Upper

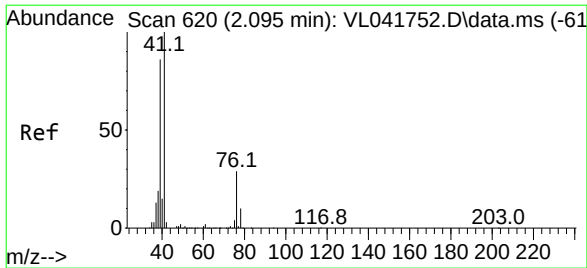
84 100

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# 62

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

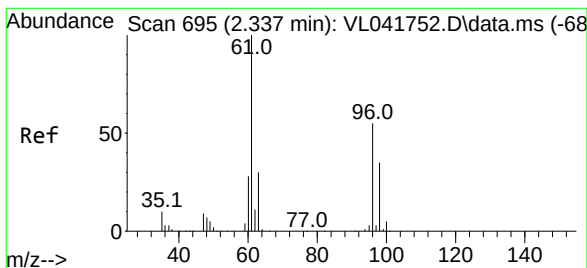
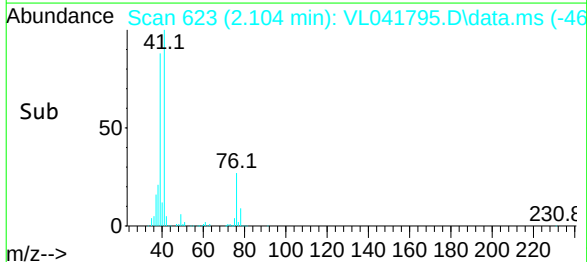
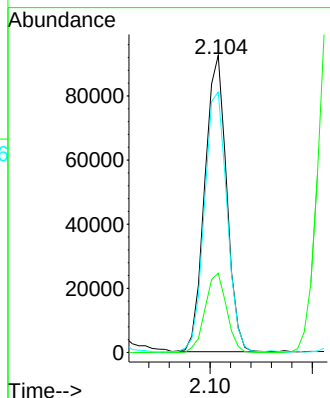
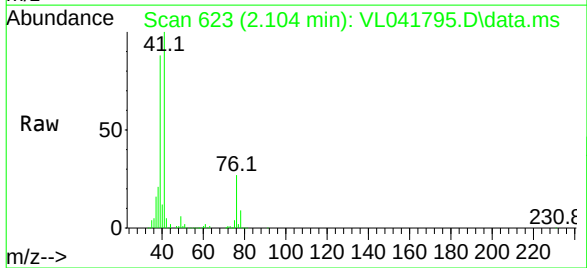
VL1218ABS01

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

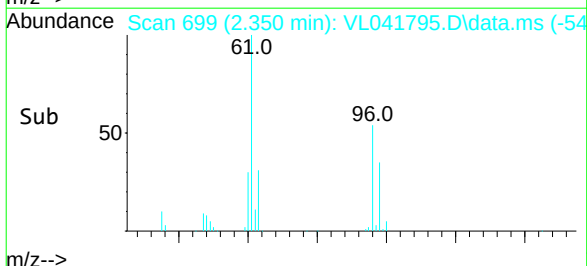
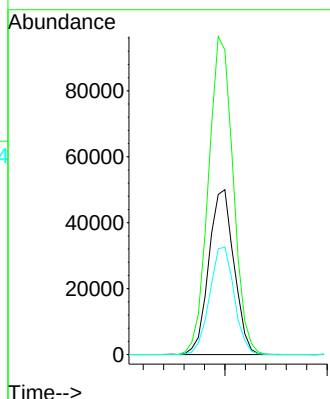
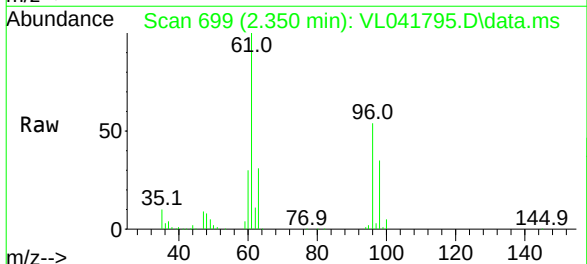
RT: 2.350 min Scan# 699

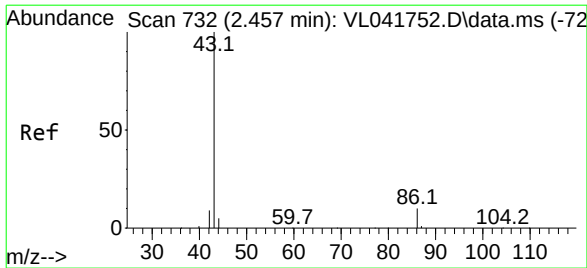
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

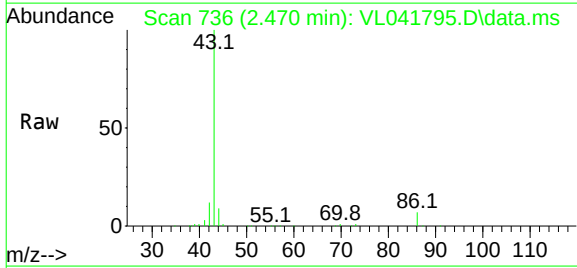
Tgt Ion:	96	Resp:	42821
Ion	Ratio	Lower	Upper
96	100		
61	184.8	146.3	219.5
98	65.2	50.8	76.2





#23
 Vinyl Acetate
 Concen: 6.627 ppbv
 RT: 2.470 min Scan# 732
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

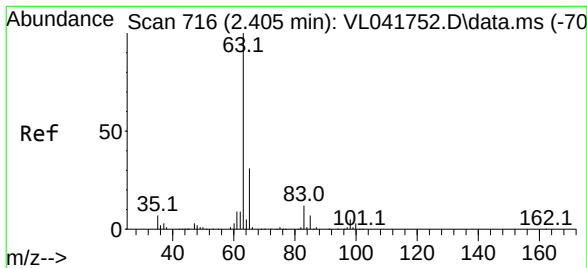
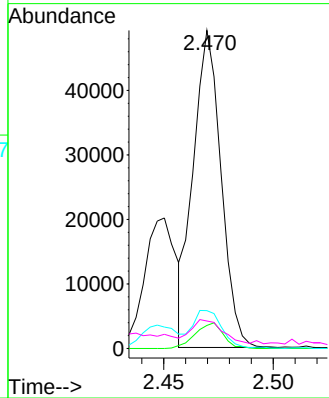
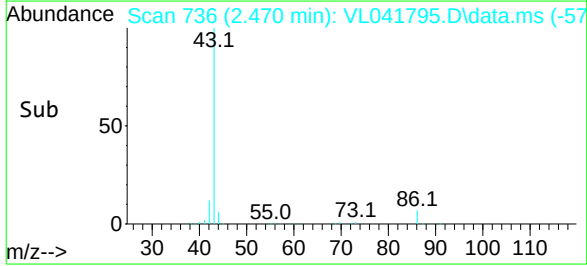
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01



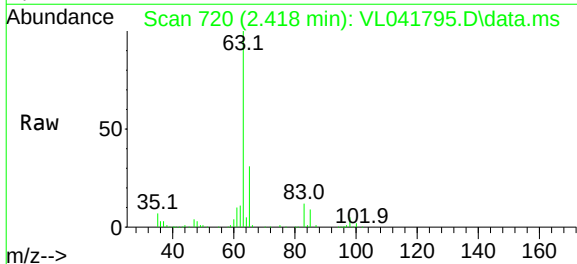
Tgt Ion:	43	Resp:	43463
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.6	10.0
42	11.5	8.2	12.2
44	6.9	5.0	7.4

Manual Integrations
 APPROVED

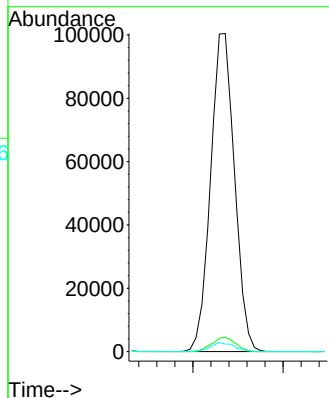
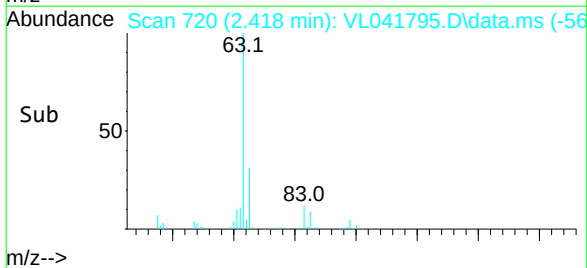
Reviewed By :Semsettin Yesilyurt 12/19/2024
 Supervised By :Mahesh Dadoda 12/19/2024

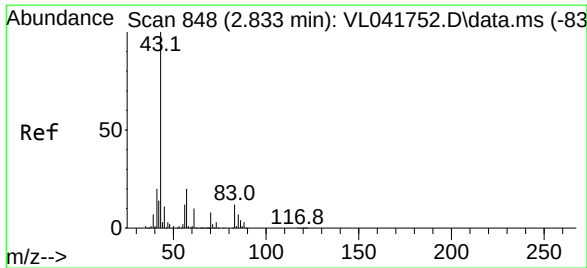


#24
 1,1-Dichloroethane
 Concen: 9.142 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06



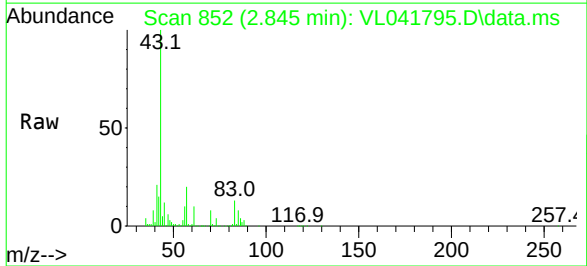
Tgt Ion:	63	Resp:	92680
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	2.4	1.4	4.2





#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

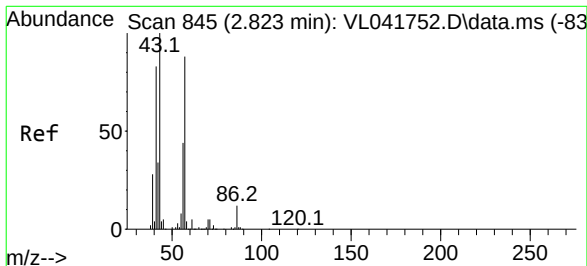
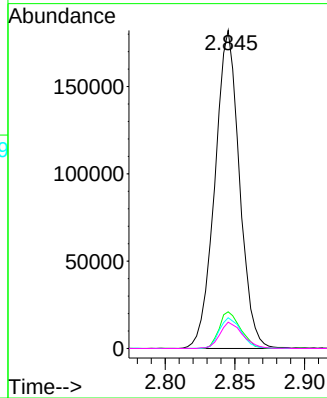
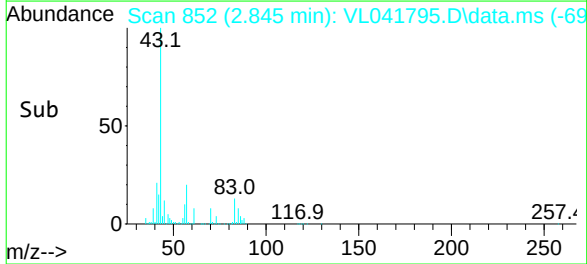
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



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

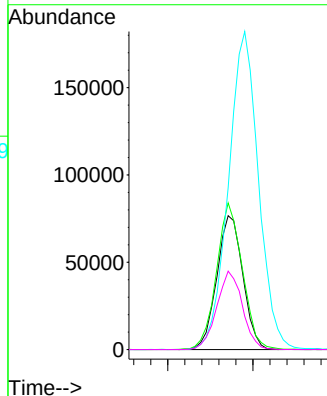
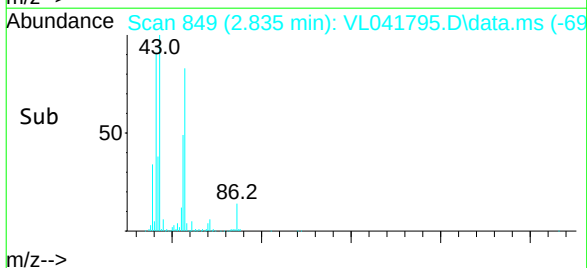
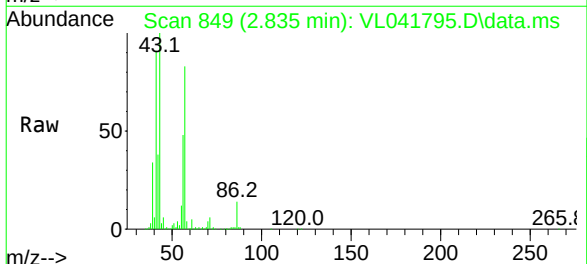
Manual Integrations
APPROVED

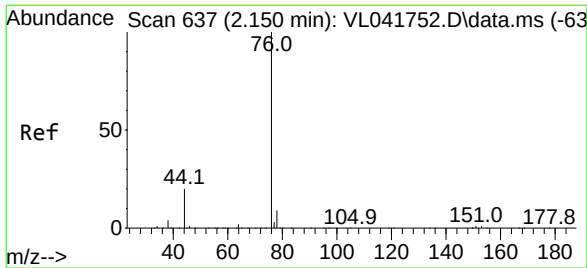
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

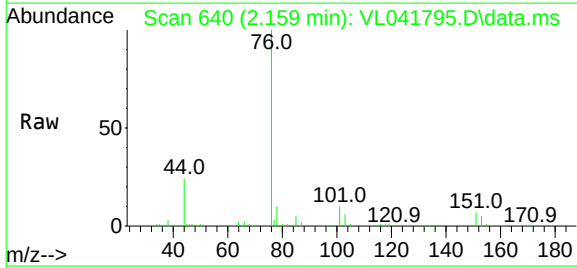
Tgt Ion:	57	Resp:	81413
Ion	Ratio	Lower	Upper
57	100		
41	109.0	79.6	119.4
43	275.9	211.0	316.6
56	57.7	42.6	63.8





#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

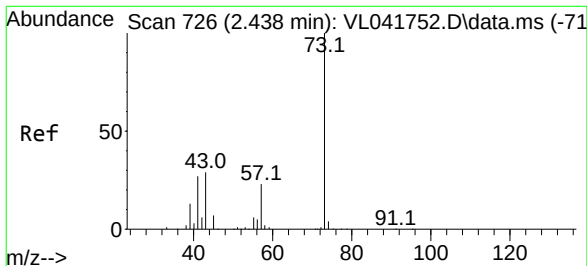
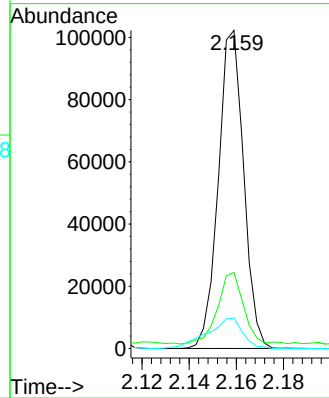
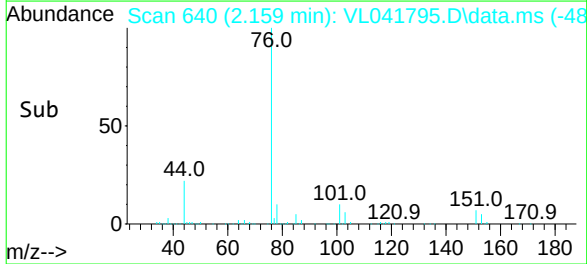
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



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

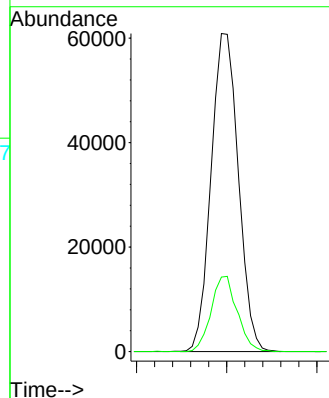
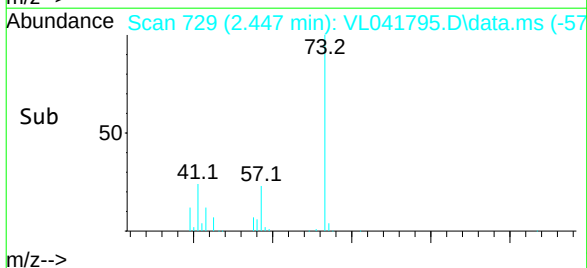
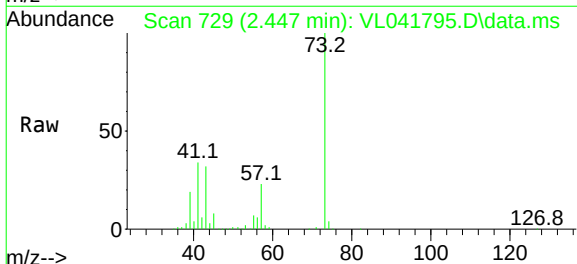
Manual Integrations
APPROVED

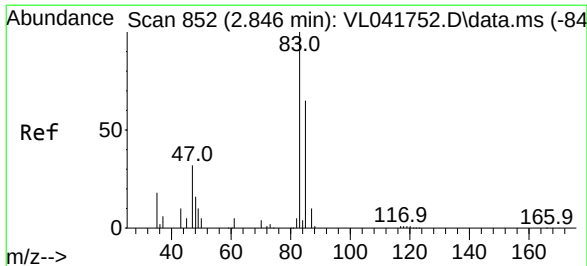
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

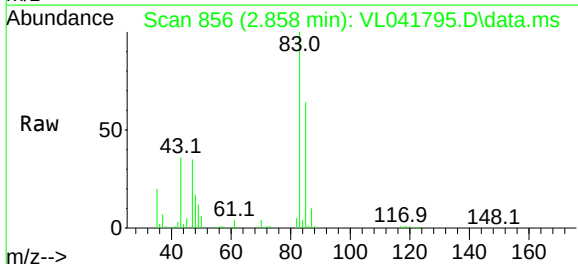
Tgt Ion: 73 Resp: 64037
Ion Ratio Lower Upper
73 100
57 22.6 17.6 26.4





#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

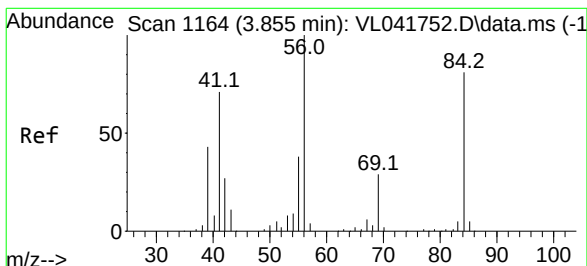
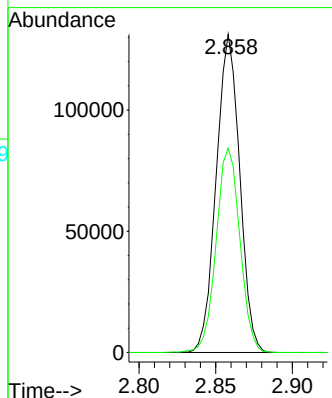
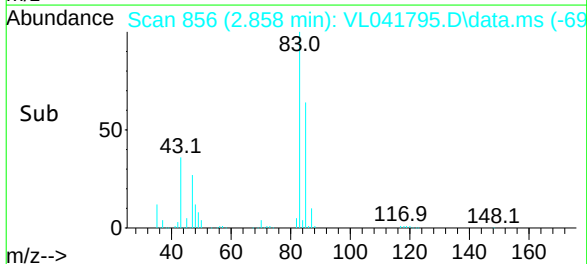
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 83 Resp: 139818
Ion Ratio Lower Upper
83 100
85 64.2 51.8 77.6

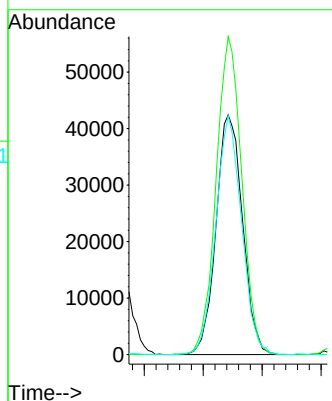
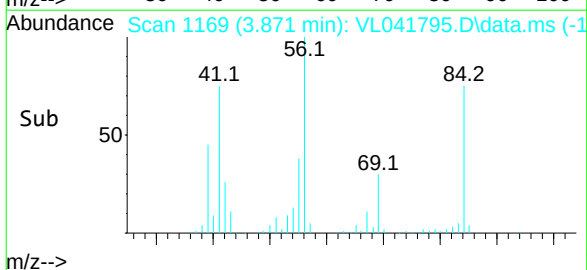
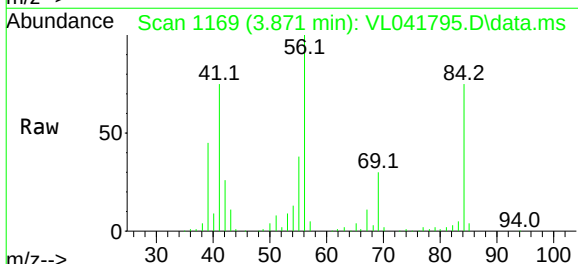
Manual Integrations
APPROVED

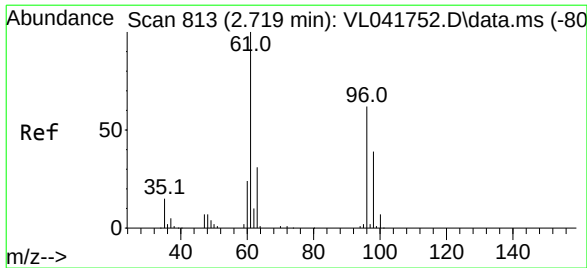
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





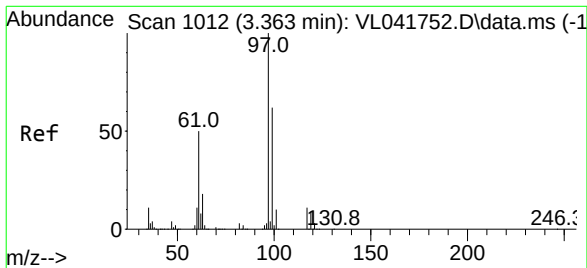
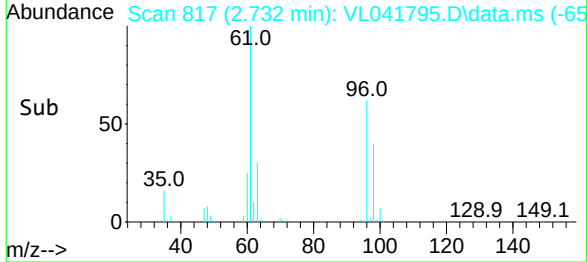
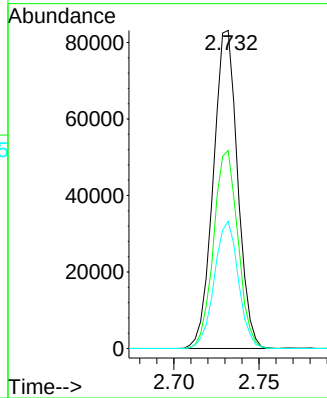
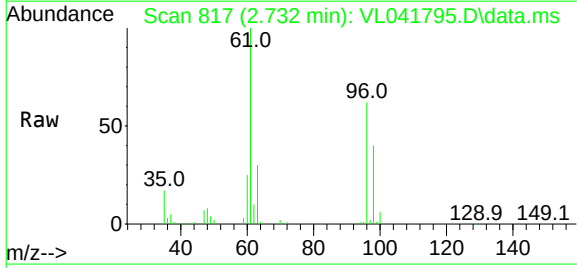
#31
cis-1,2-Dichloroethene
Concen: 8.033 ppbv
RT: 2.732 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

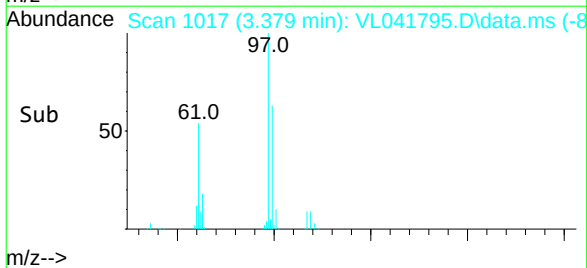
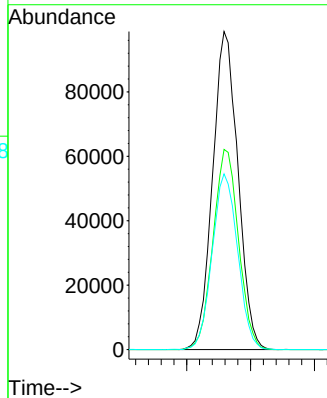
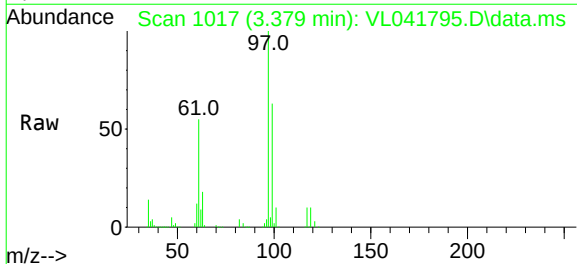
Manual Integrations
APPROVED

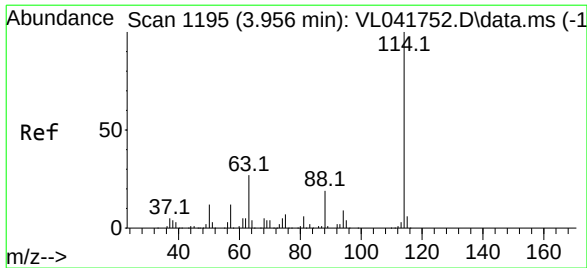
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





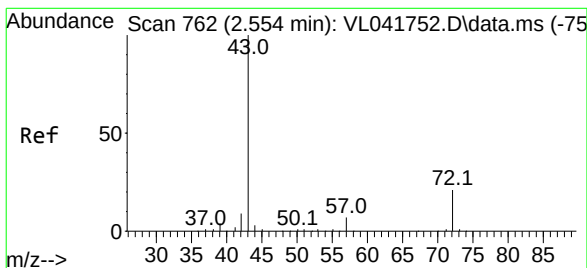
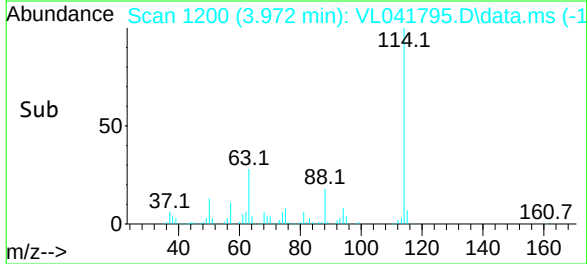
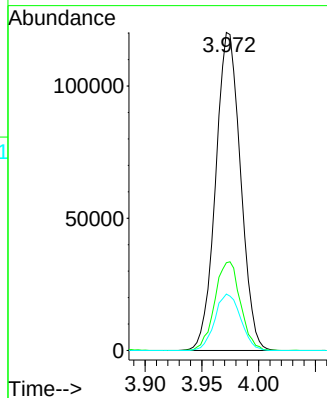
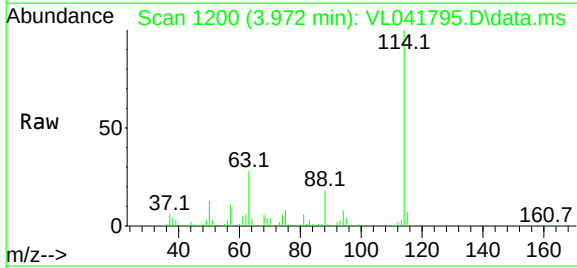
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 12
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

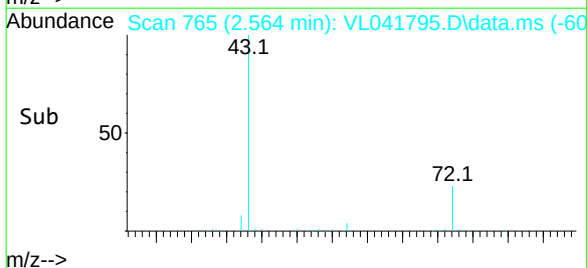
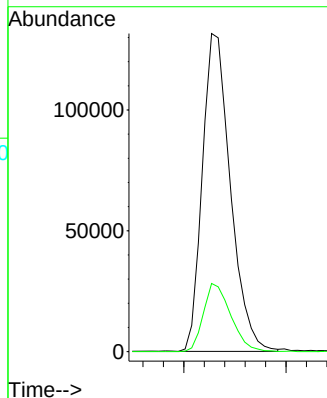
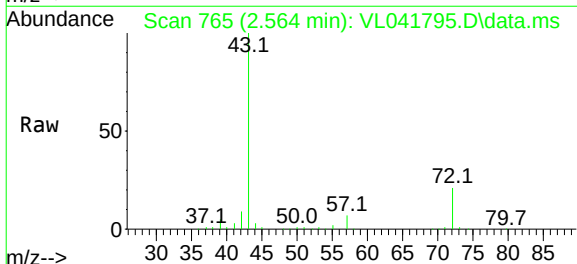
Manual Integrations
APPROVED

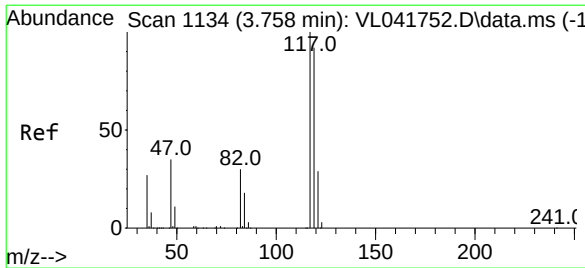
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

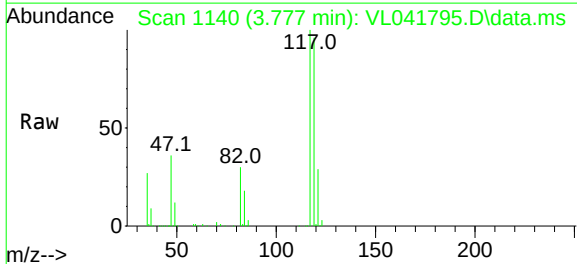
Tgt Ion: 43 Resp: 125687
Ion Ratio Lower Upper
43 100
72 20.9 16.8 25.2





#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

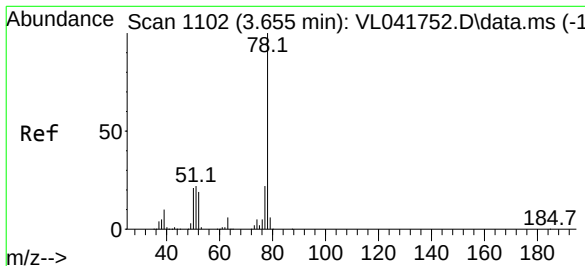
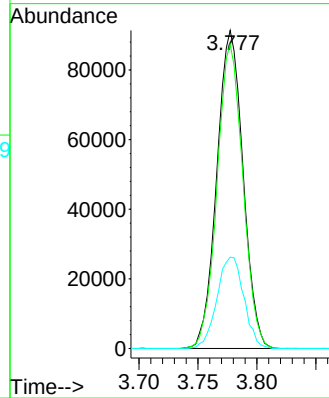
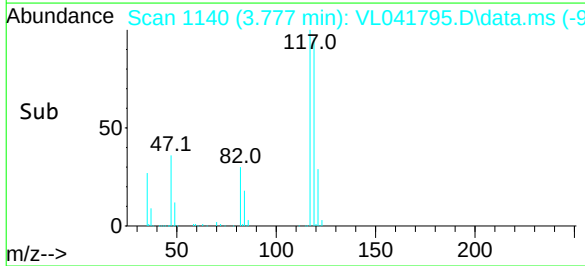
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



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

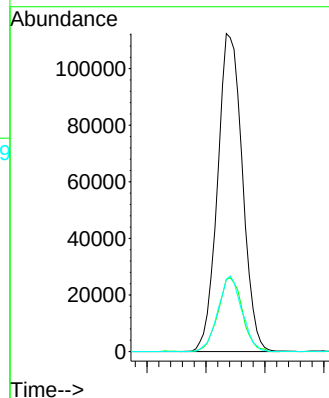
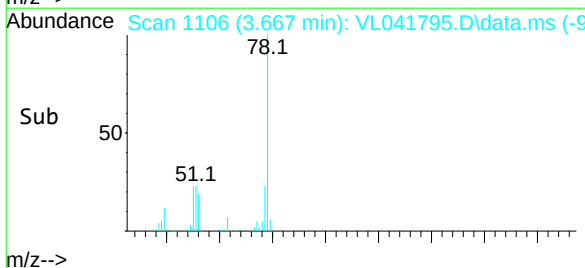
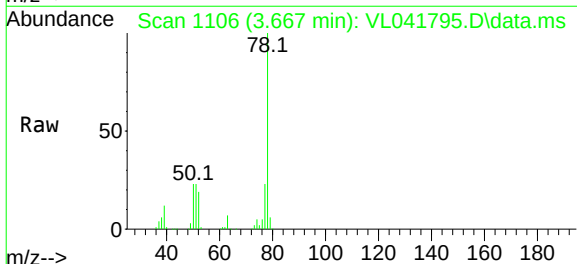
Manual Integrations
APPROVED

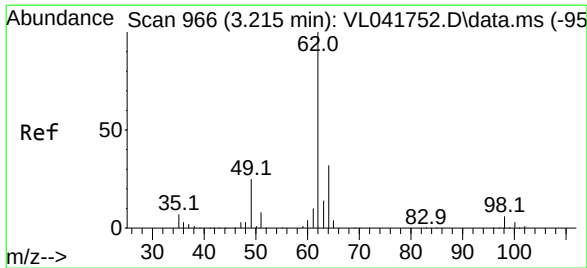
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





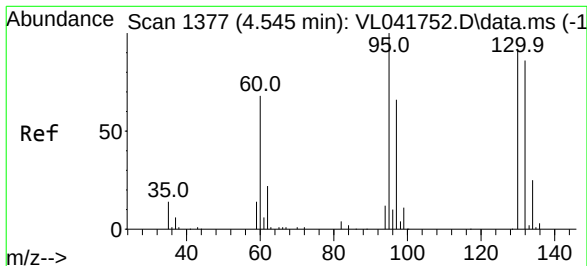
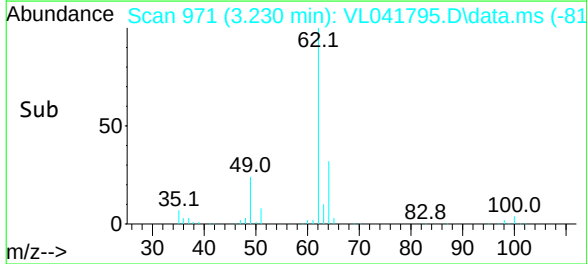
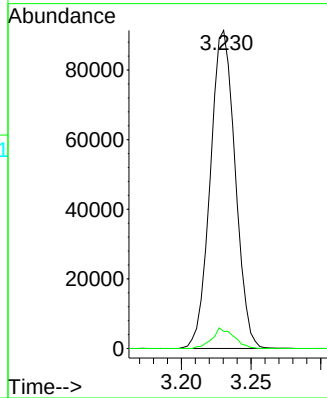
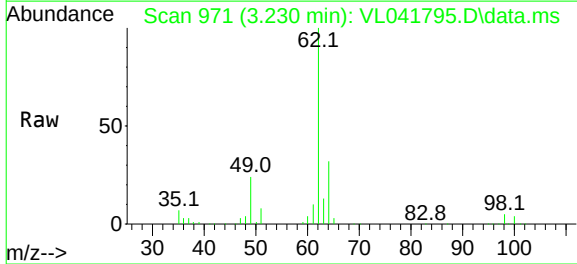
#37
1,2-Dichloroethane
Concen: 9.631 ppbv
RT: 3.230 min Scan# 971
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 62 Resp: 113600
Ion Ratio Lower Upper
62 100
98 5.7 4.7 7.1

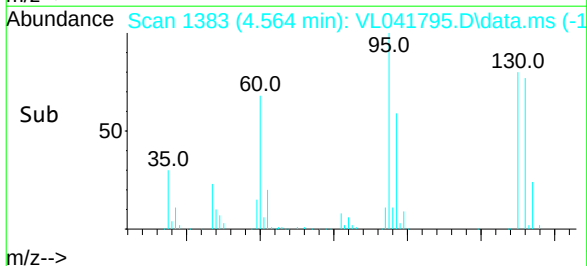
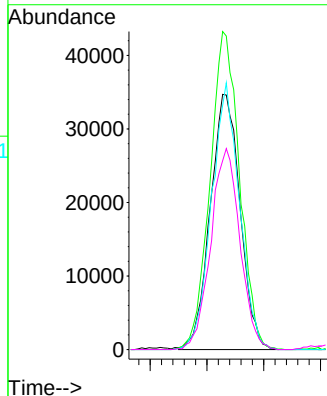
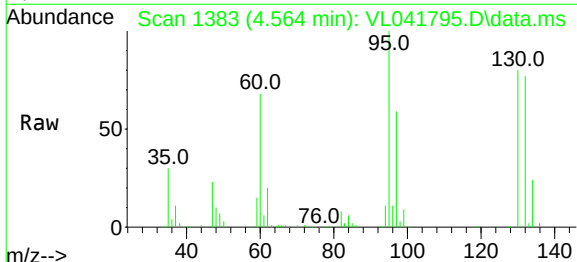
Manual Integrations
APPROVED

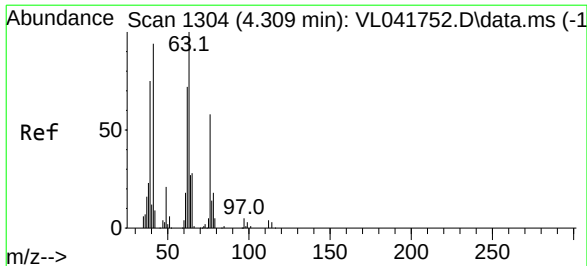
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

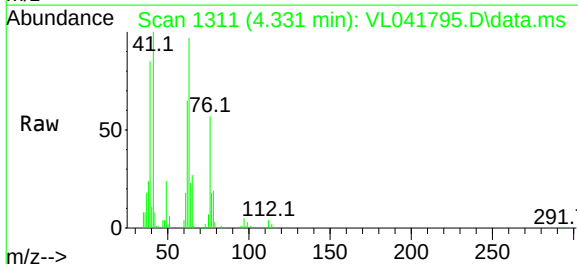
Tgt Ion:130 Resp: 63280
Ion Ratio Lower Upper
130 100
95 124.4 87.0 130.6
132 95.7 75.0 112.6
97 74.0 57.2 85.8





#39
1,2-Dichloropropane
Concen: 8.541 ppbv
RT: 4.331 min Scan# 1304
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

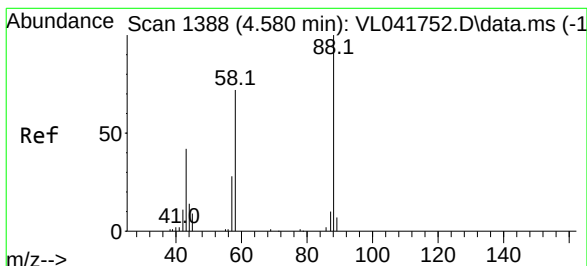
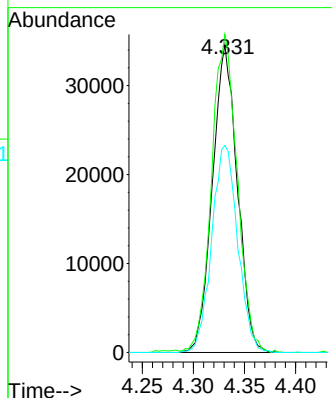
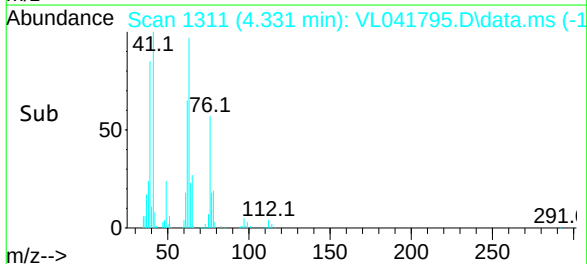
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



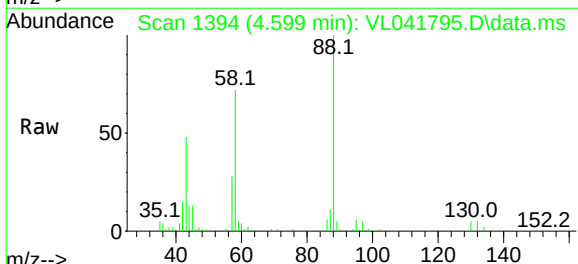
Tgt Ion: 63 Resp: 58553
Ion Ratio Lower Upper
63 100
41 103.2 75.3 112.9
62 67.3 57.3 85.9

Manual Integrations
APPROVED

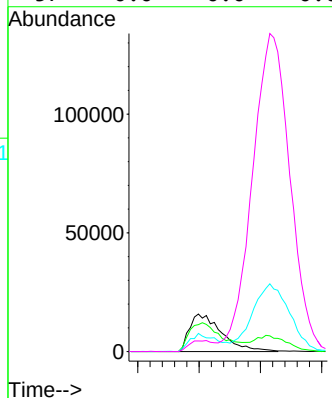
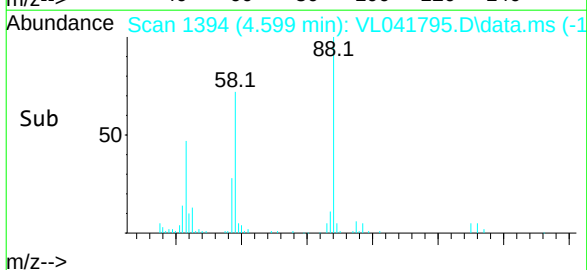
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

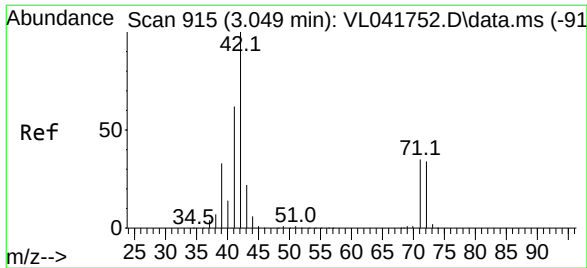


#40
1,4-Dioxane
Concen: 8.624 ppbv
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



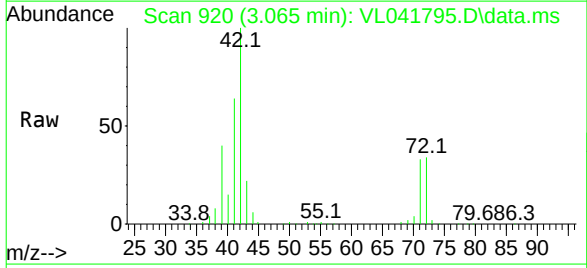
Tgt Ion: 88 Resp: 28884
Ion Ratio Lower Upper
88 100
58 83.5 61.0 91.6
43 40.2 29.4 44.0
57 0.0 0.0 0.0





#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

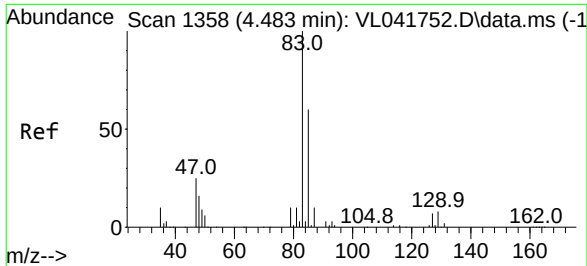
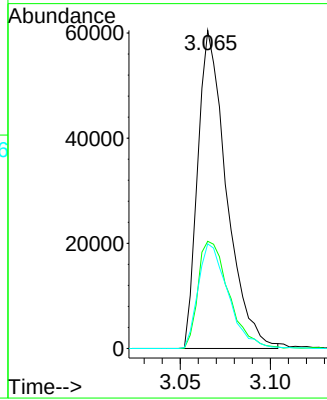
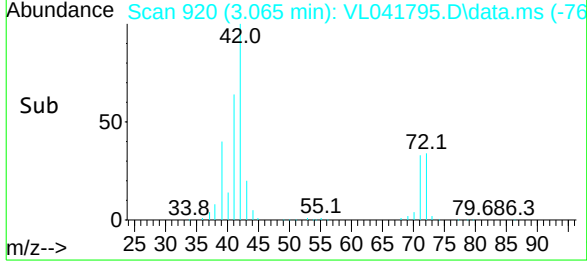
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



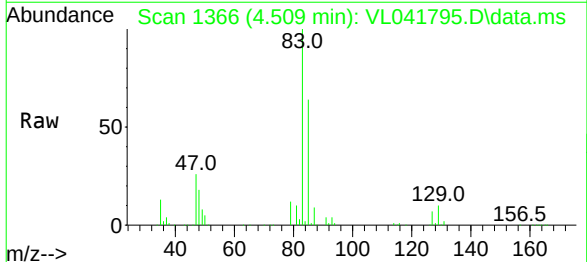
Tgt Ion: 42 Resp: 67017
Ion Ratio Lower Upper
42 100
72 36.3 29.1 43.7
71 34.4 28.4 42.6

Manual Integrations
APPROVED

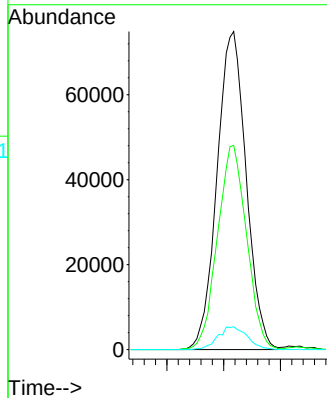
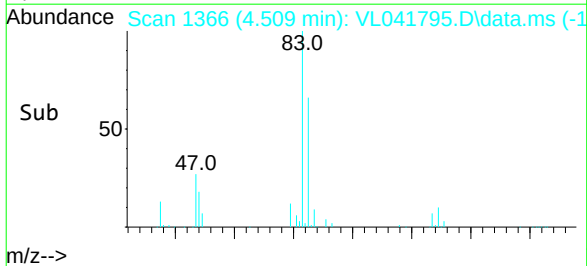
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

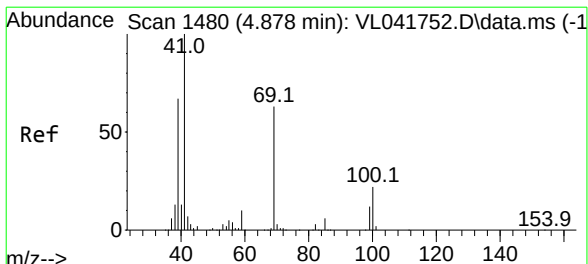


#42
Bromodichloromethane
Concen: 9.839 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.026 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



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

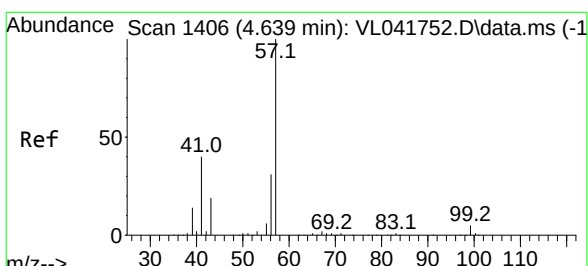
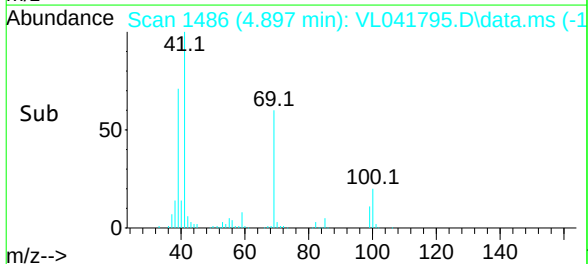
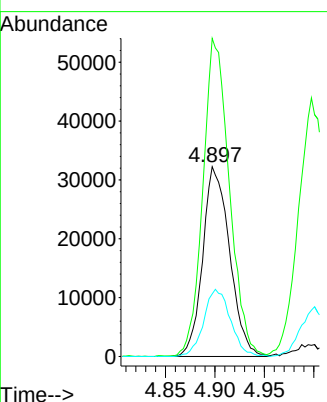
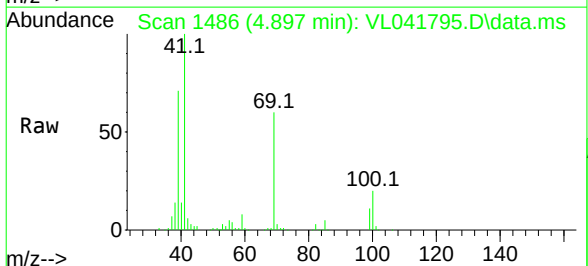
ClientSampleId :

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

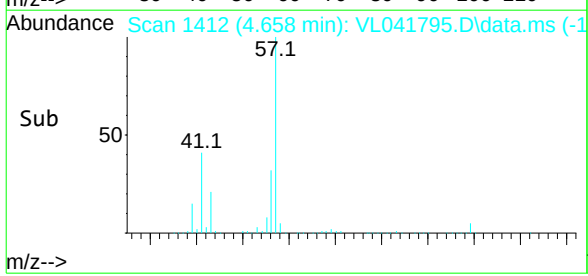
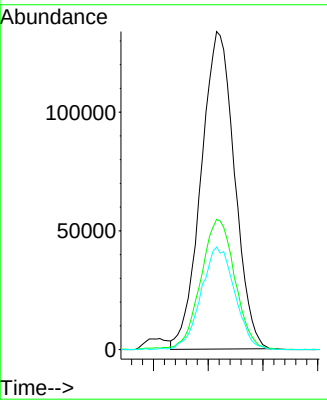
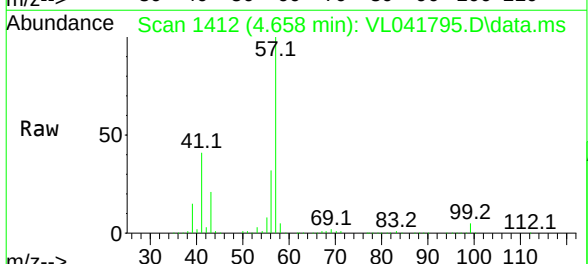
Manual Integrations
APPROVED

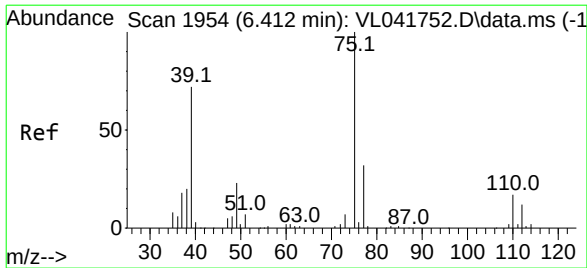
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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# 19

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

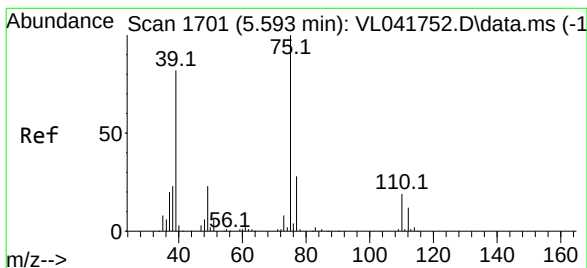
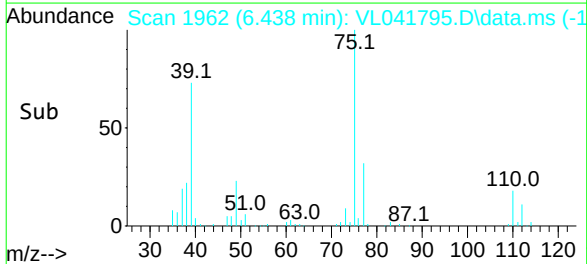
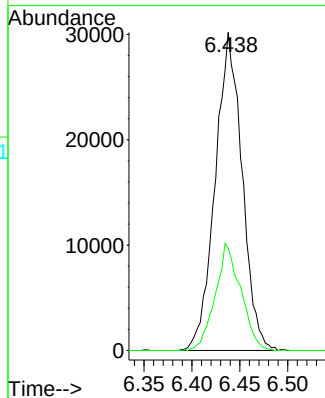
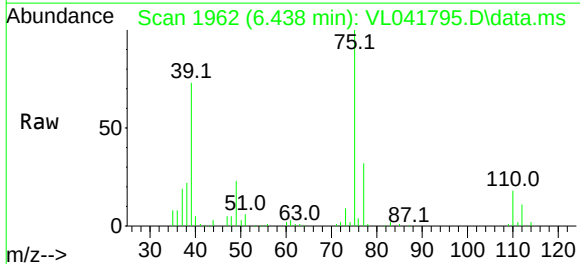
77 32.1 25.9 38.9

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

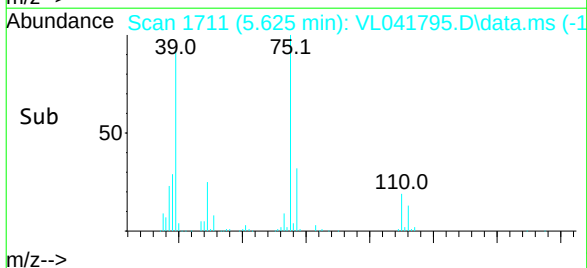
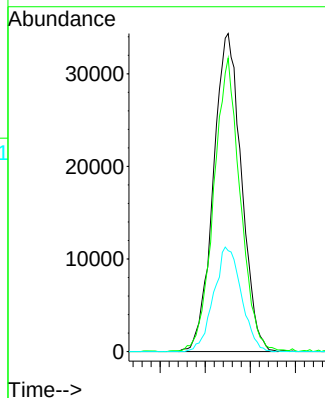
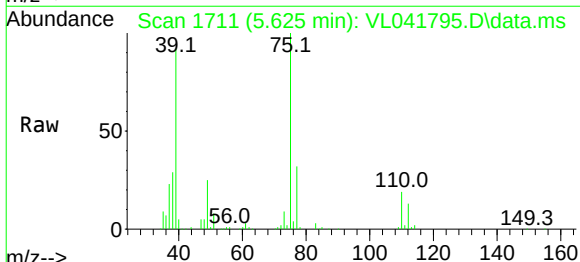
Tgt Ion: 75 Resp: 74198

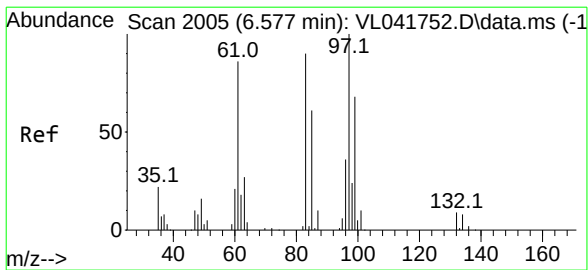
Ion Ratio Lower Upper

75 100

39 92.0 65.2 97.8

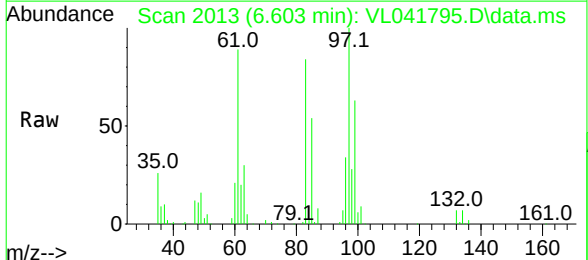
77 31.7 22.0 33.0





#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

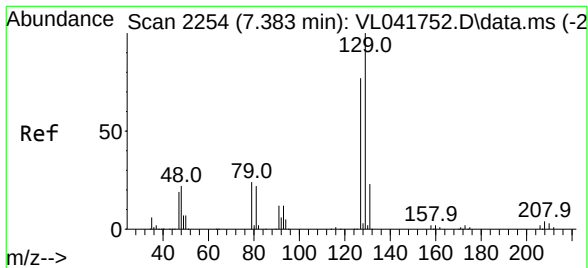
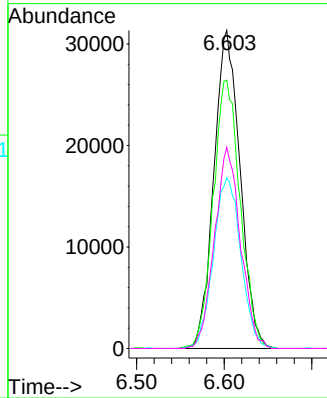
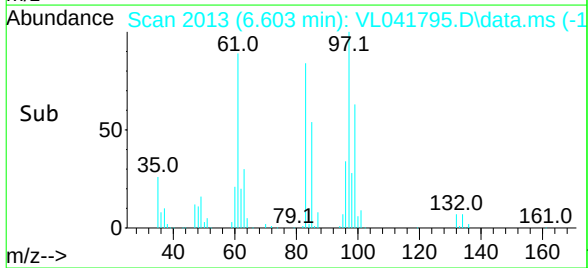
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion:	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

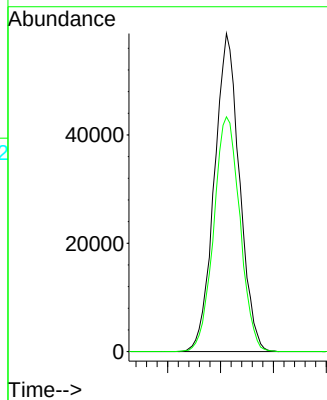
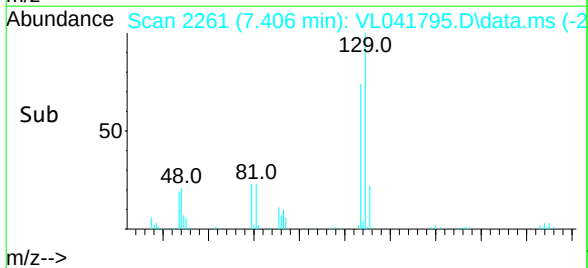
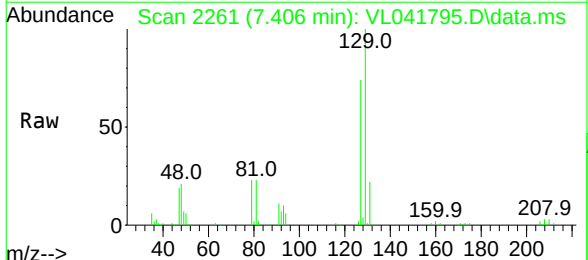
Manual Integrations
APPROVED

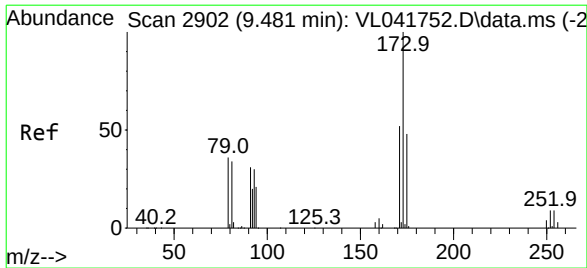
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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:	129	Resp:	96996
Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.8	116.3





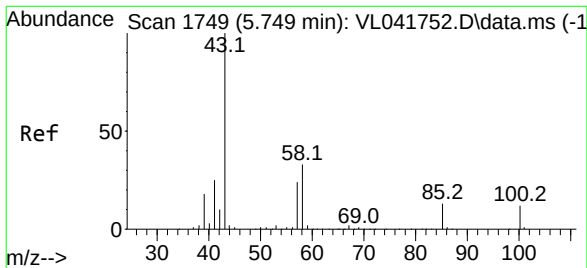
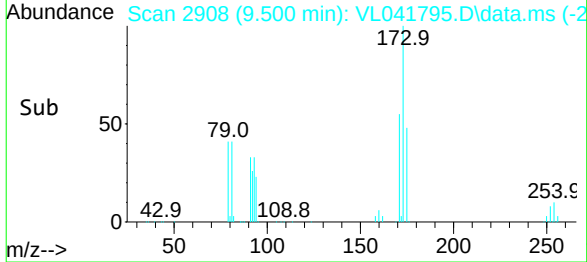
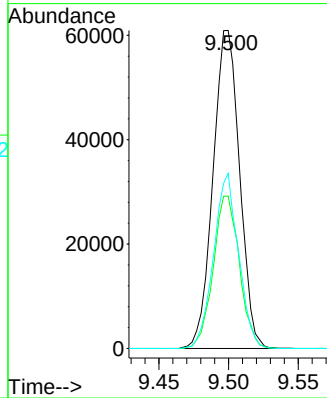
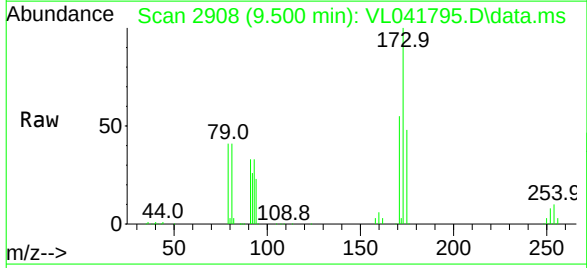
#49
Bromoform
Concen: 10.100 ppbv
RT: 9.500 min Scan# 2902
Delta R.T. 0.019 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

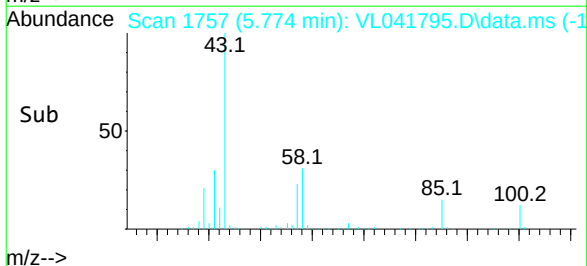
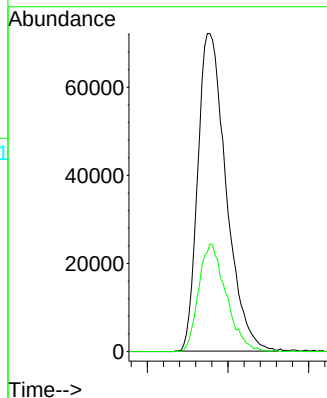
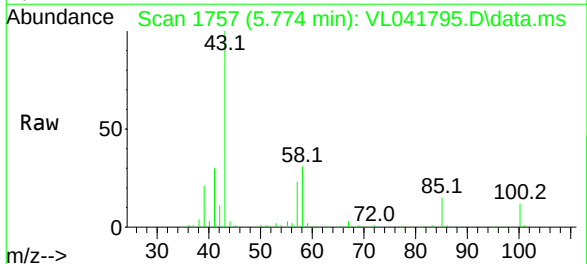
Manual Integrations
APPROVED

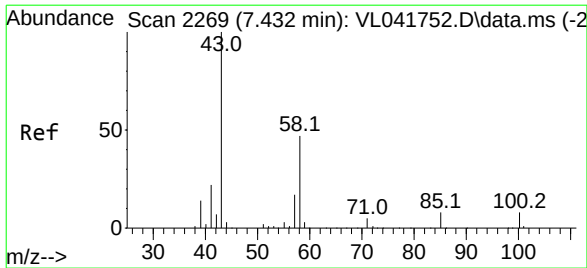
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





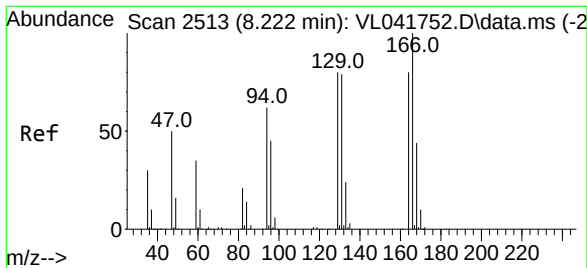
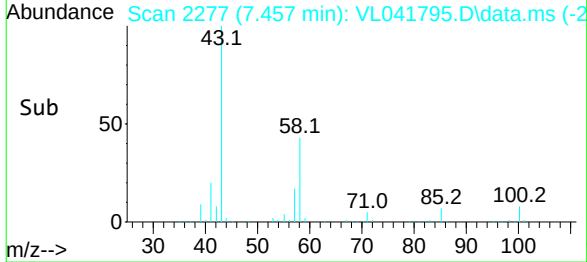
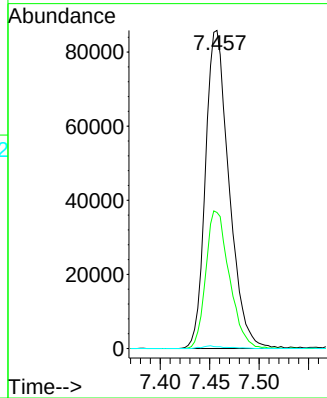
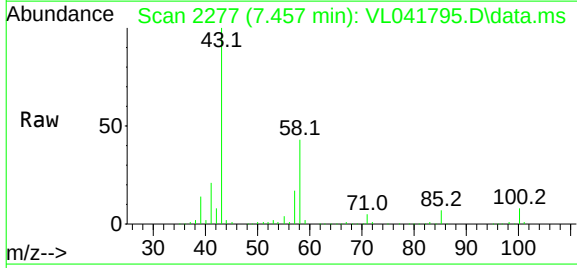
#51
2-Hexanone
Concen: 8.752 ppbv
RT: 7.457 min Scan# 2269
Delta R.T. 0.025 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

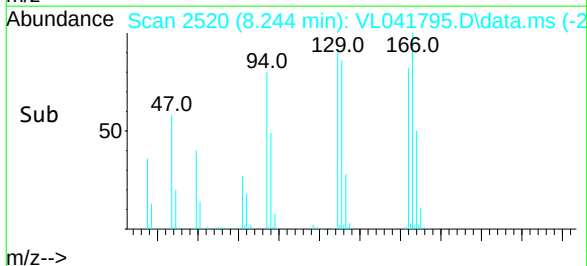
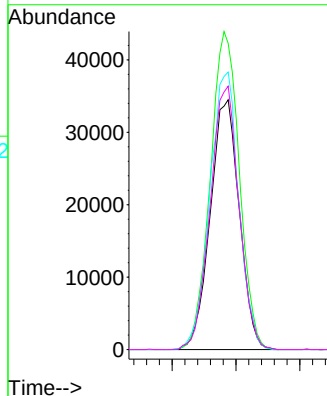
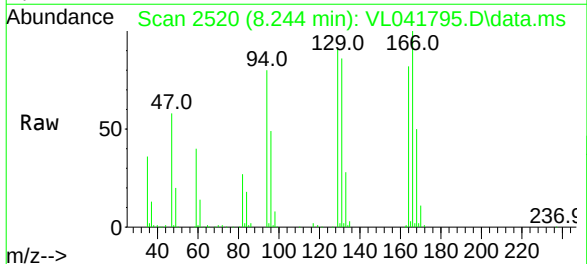
Manual Integrations
APPROVED

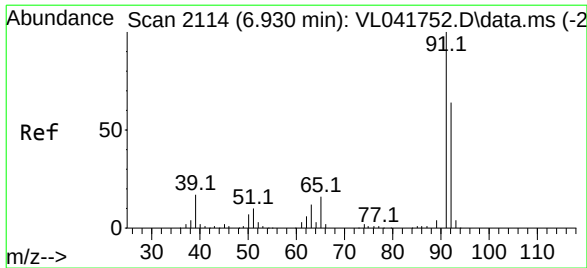
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





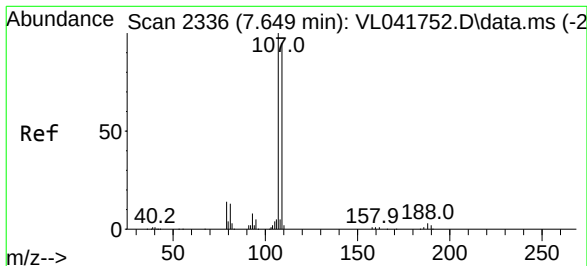
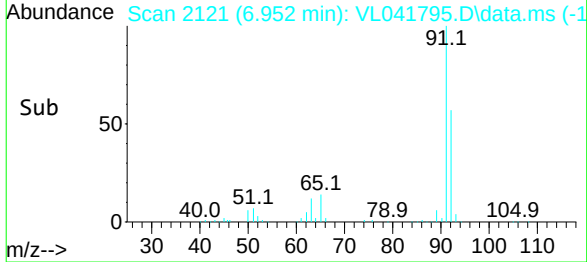
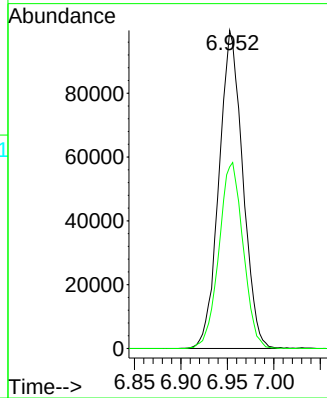
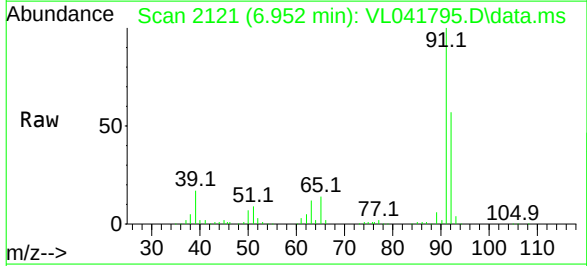
#53
Toluene
Concen: 8.265 ppbv
RT: 6.952 min Scan# 2114
Delta R.T. 0.022 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Tgt Ion: 91 Resp: 177625
Ion Ratio Lower Upper
91 100
92 59.4 47.9 71.9

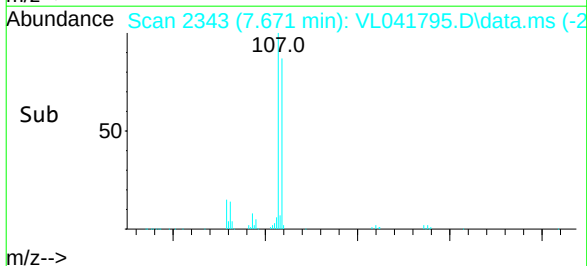
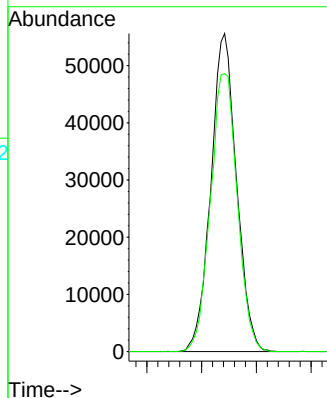
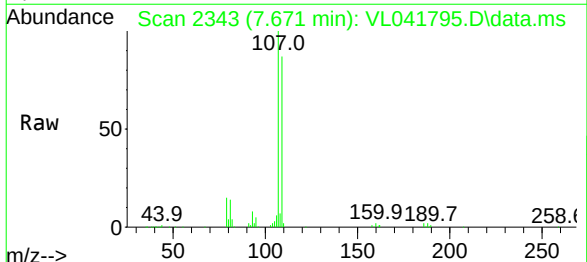
Manual Integrations
APPROVED

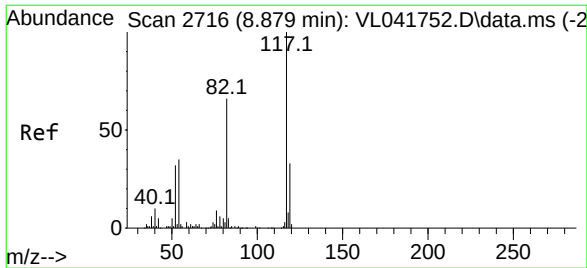
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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 :

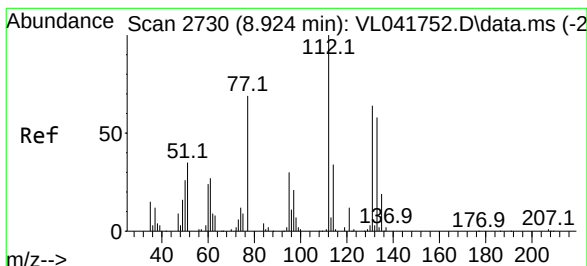
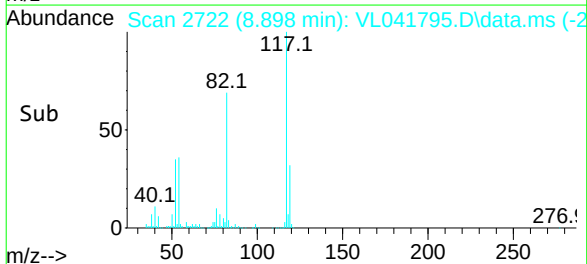
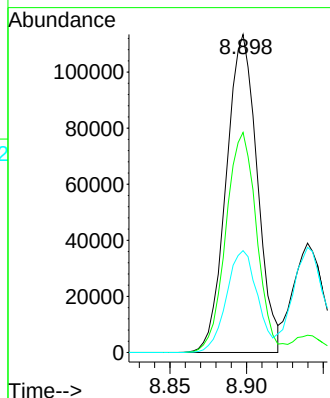
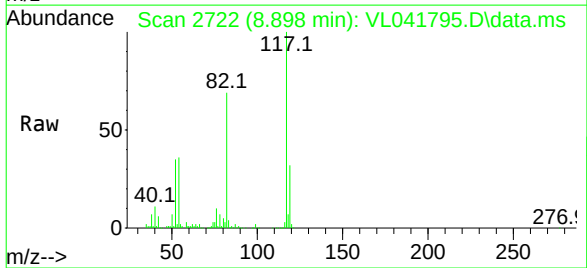
VL1218ABS01

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

APPROVED

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



#56

1,1,1,2-Tetrachloroethane

Concen: 10.202 ppbv

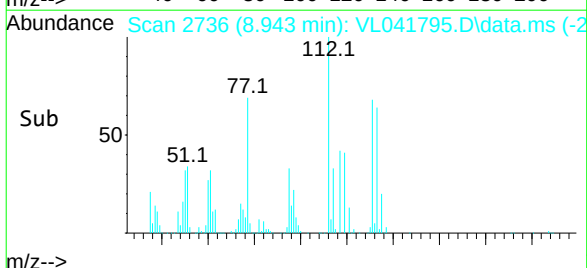
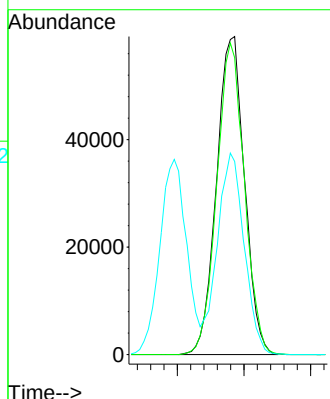
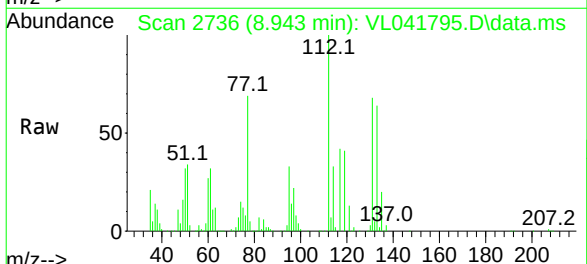
RT: 8.943 min Scan# 2736

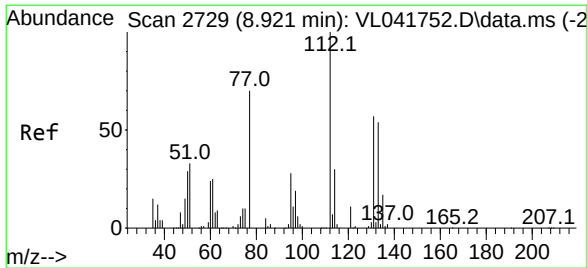
Delta R.T. 0.019 min

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





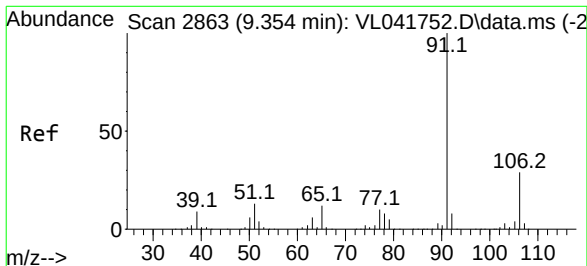
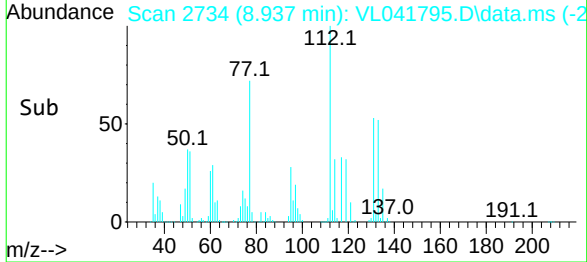
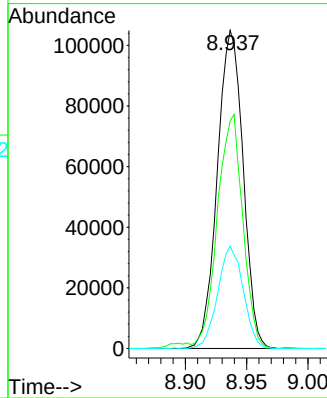
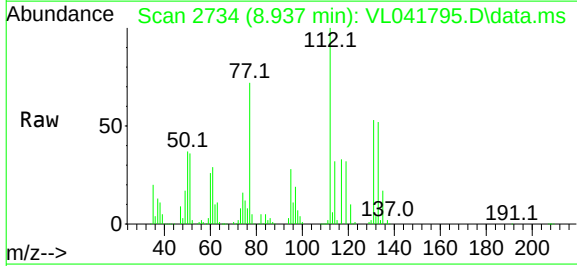
#57
Chlorobenzene
Concen: 9.415 ppbv
RT: 8.937 min Scan# 2729
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

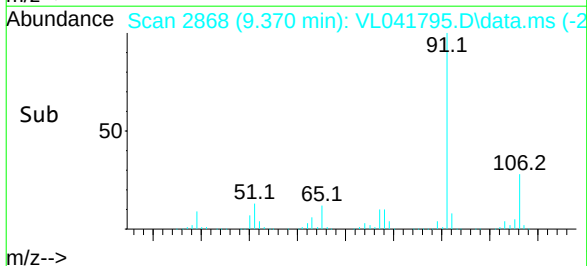
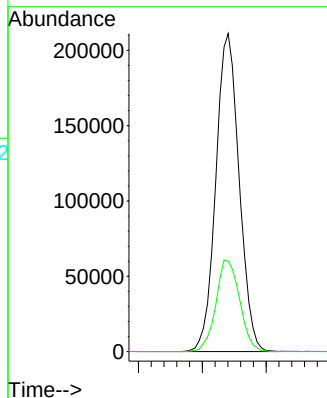
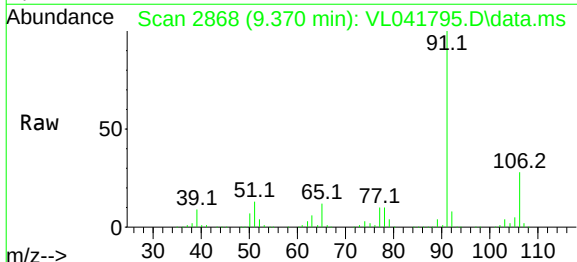
Manual Integrations
APPROVED

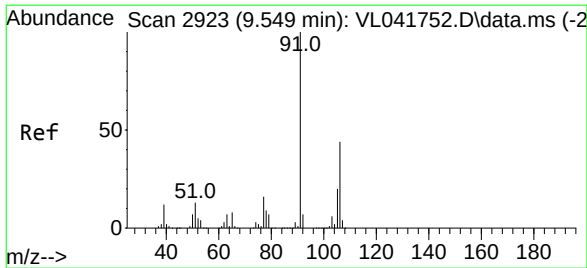
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

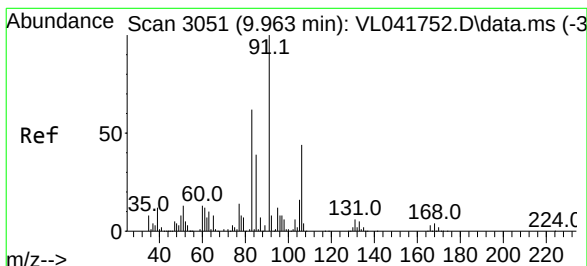
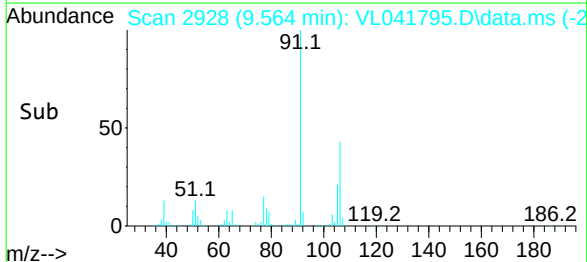
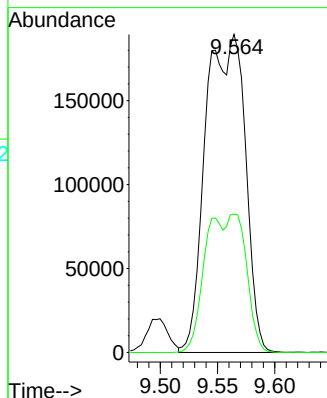
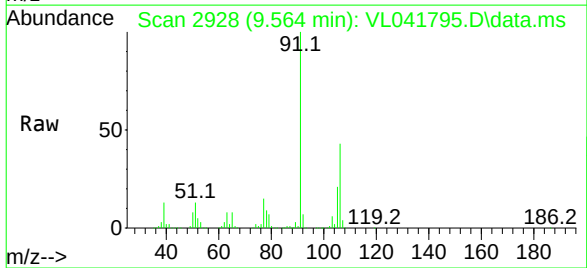
106 45.0 0.0 0.0#

Manual Integrations

APPROVED

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

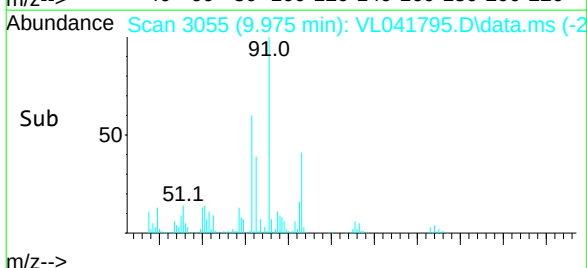
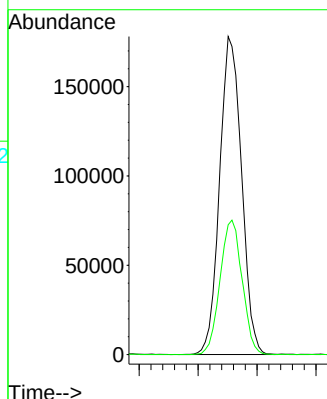
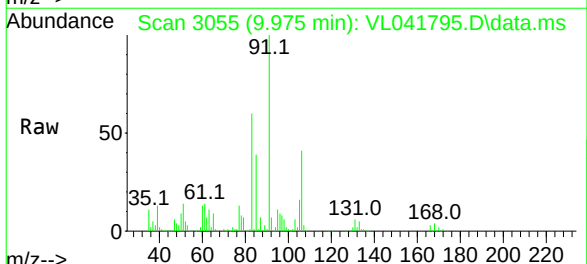
Acq: 18 Dec 2024 16:06

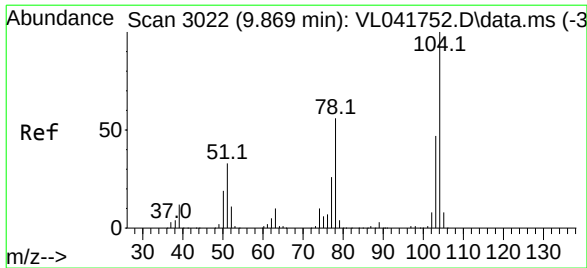
Tgt Ion: 91 Resp: 229919

Ion Ratio Lower Upper

91 100

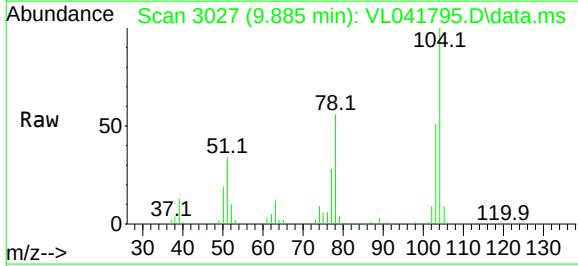
106 42.5 21.1 63.4





#61
Styrene
Concen: 9.543 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

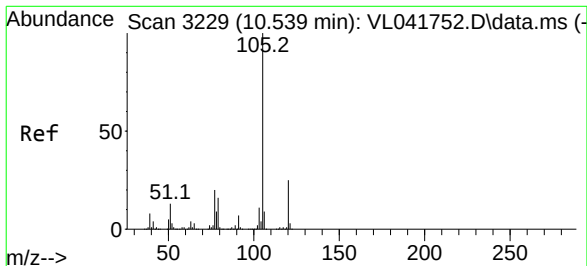
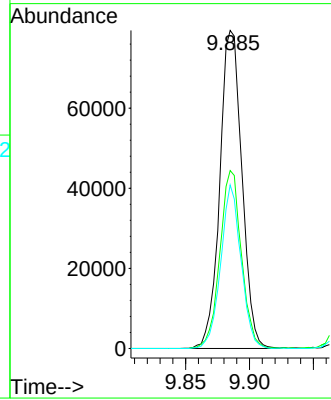
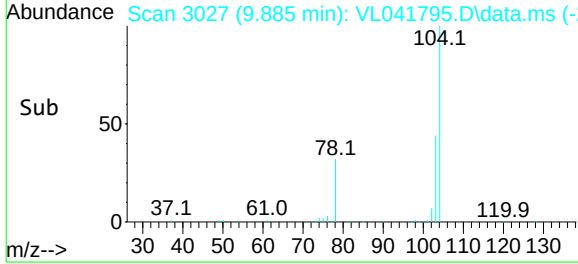
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



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

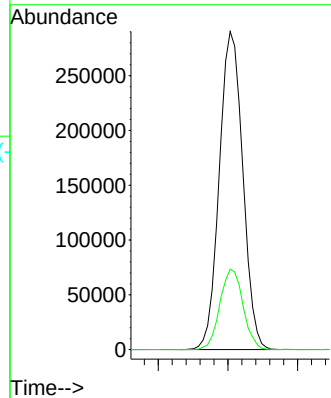
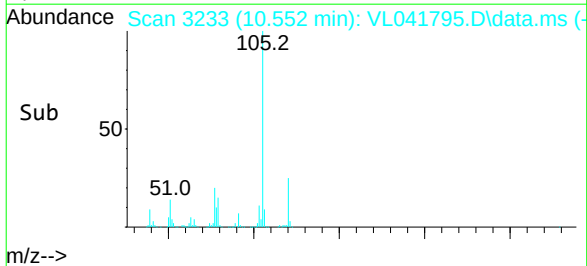
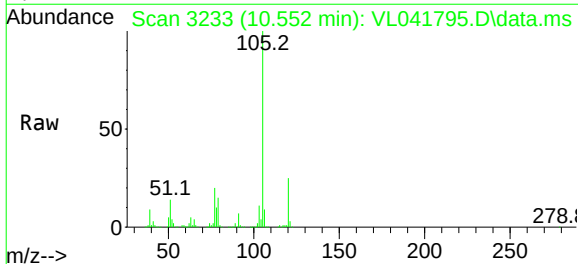
Manual Integrations
APPROVED

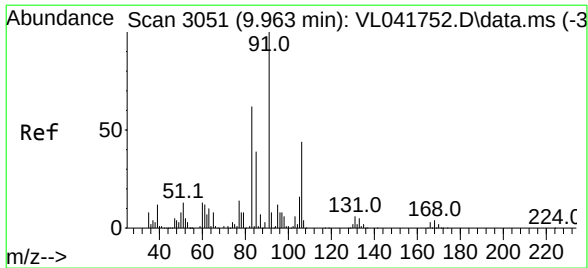
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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





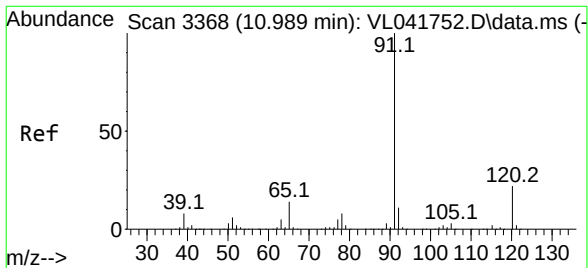
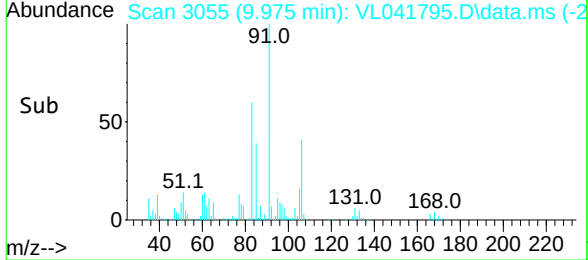
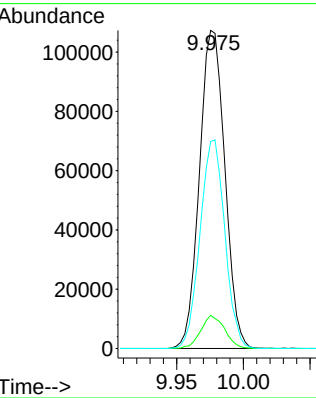
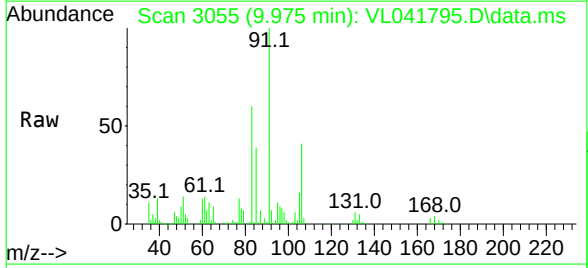
#63
1,1,2,2-Tetrachloroethane
Concen: 9.817 ppbv
RT: 9.975 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

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

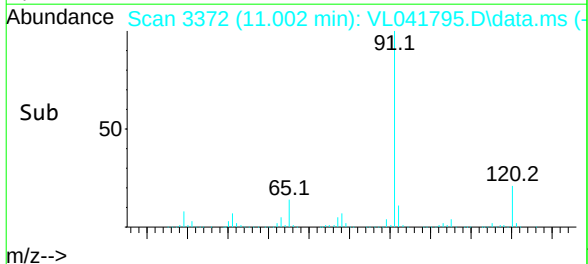
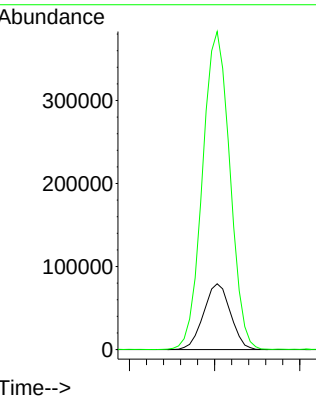
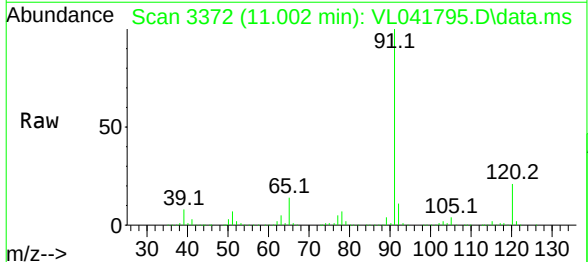
Manual Integrations
APPROVED

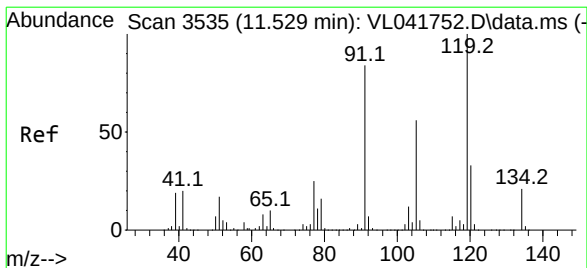
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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

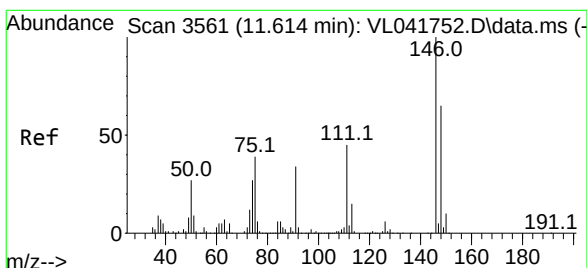
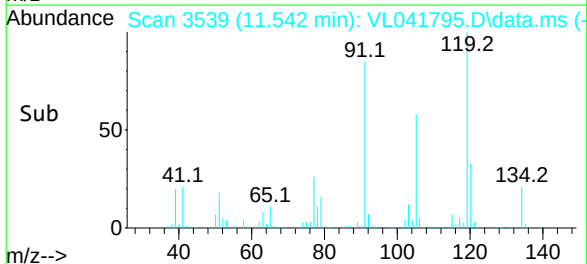
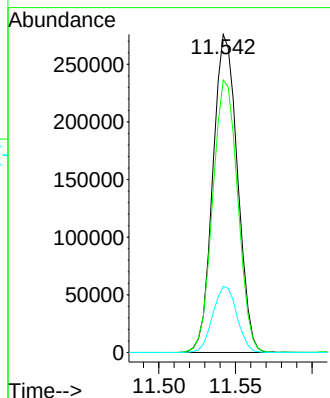
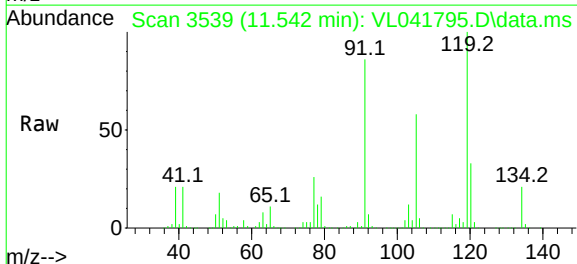
ClientSampleId :

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
APPROVED

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



#66

Benzyl Chloride

Concen: 7.936 ppbv

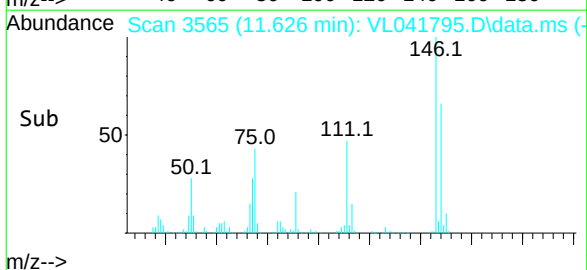
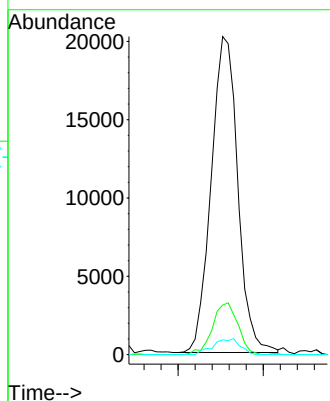
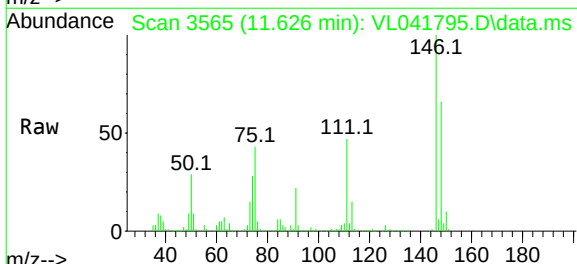
RT: 11.626 min Scan# 3565

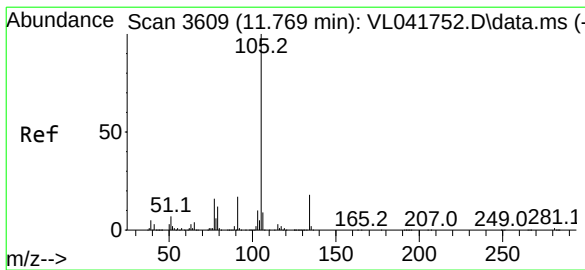
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

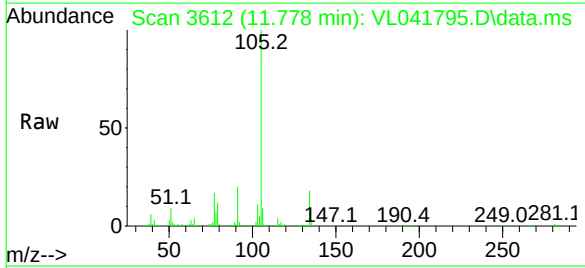
Tgt Ion:	91	Resp:	21939
Ion Ratio	Lower	Upper	
91	100		
126	15.7	13.9	20.9
128	5.1	4.4	6.6





#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

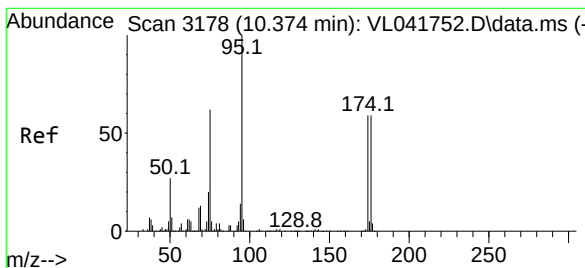
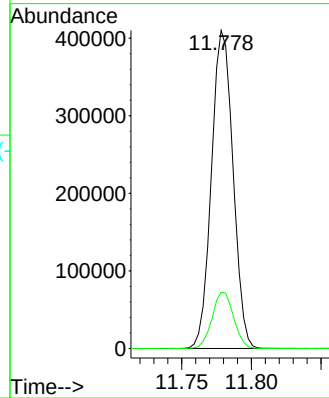
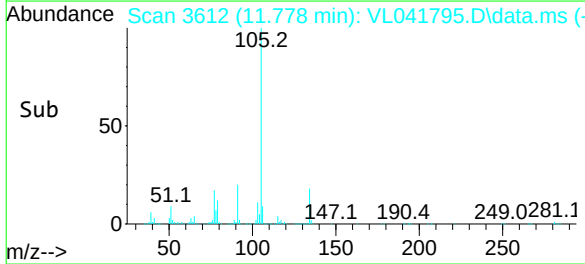
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



Tgt Ion: 105 Resp: 441578
Ion Ratio Lower Upper
105 100
134 17.6 14.5 21.7

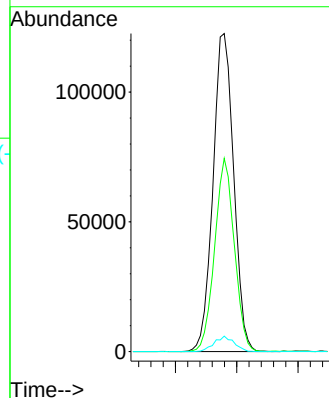
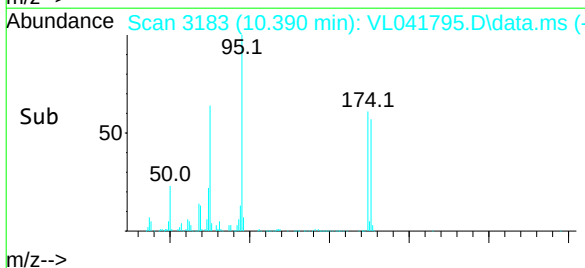
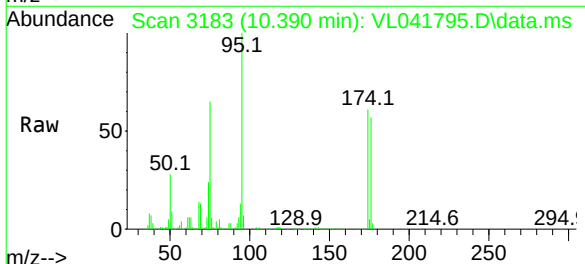
Manual Integrations
APPROVED

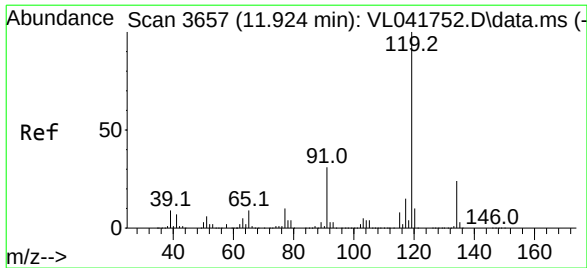
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



#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 :

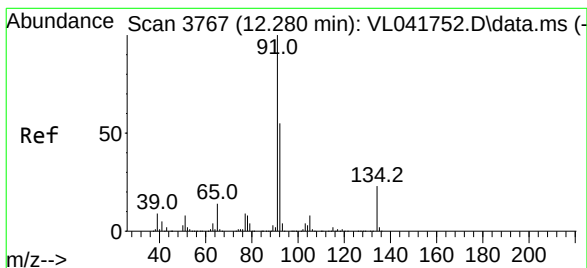
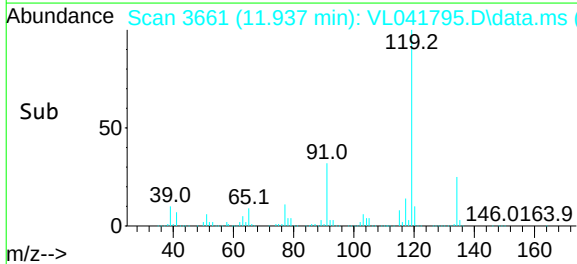
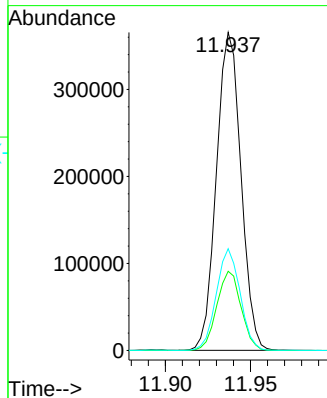
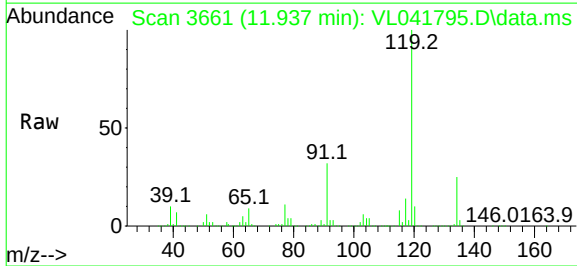
VL1218ABS01

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

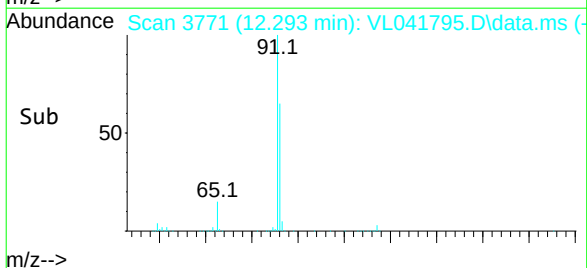
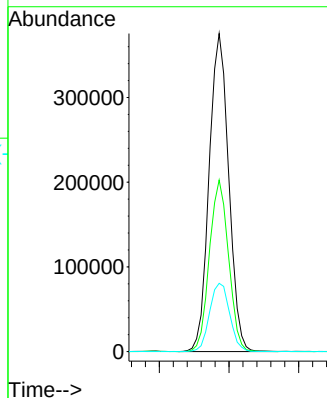
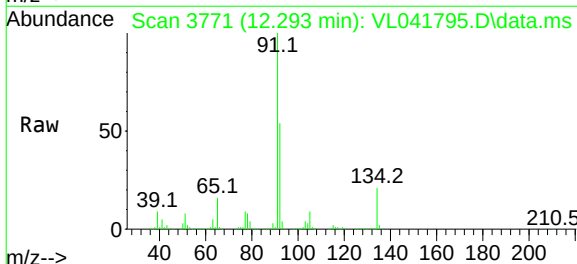
RT: 12.293 min Scan# 3771

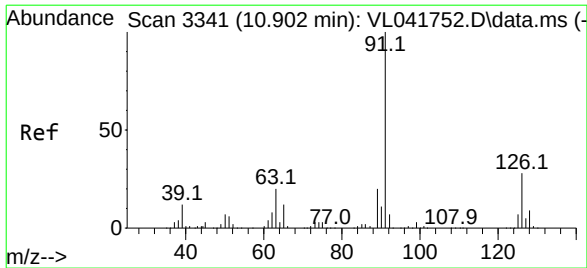
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

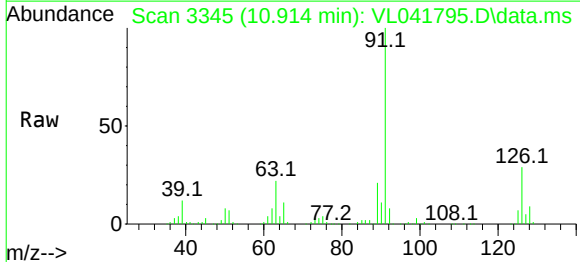
Tgt Ion:	91	Resp:	366451
Ion	Ratio	Lower	Upper
91	100		
92	52.8	43.2	64.8
134	22.0	18.2	27.4





#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

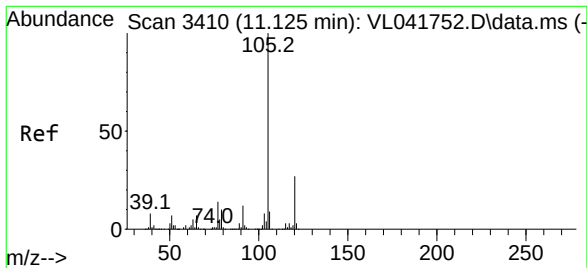
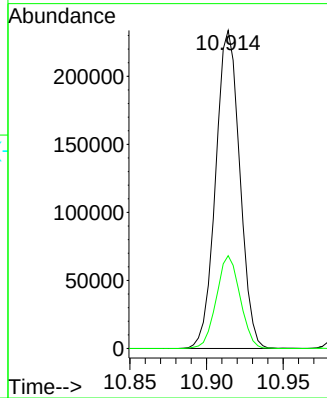
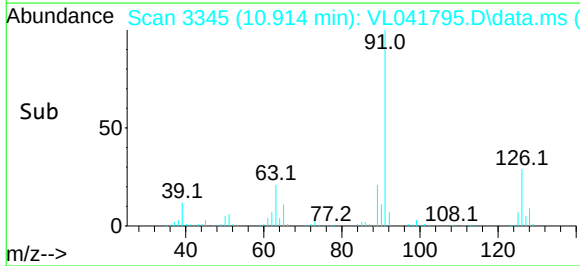
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



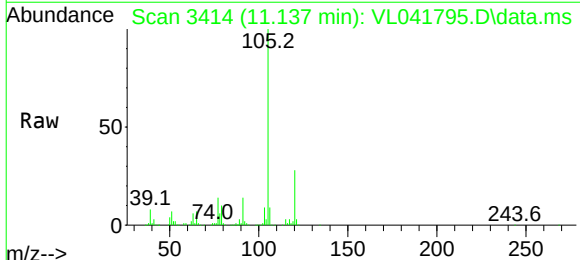
Tgt Ion: 91 Resp: 255496
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4

Manual Integrations
APPROVED

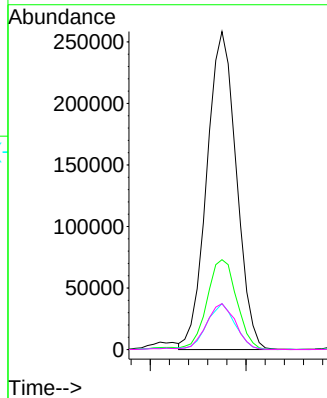
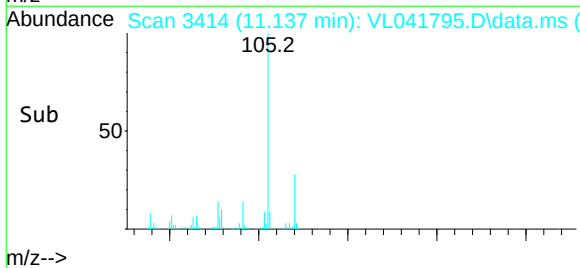
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

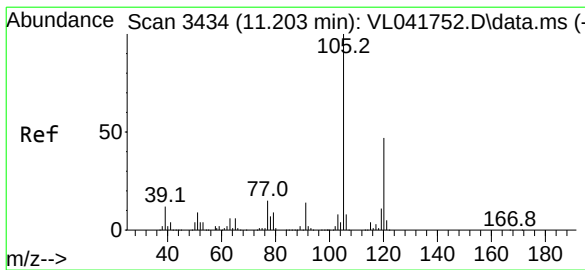


#72
4-Ethyltoluene
Concen: 10.137 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



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

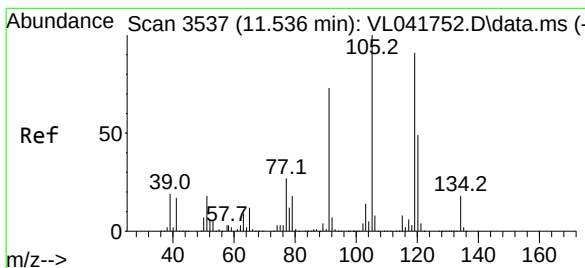
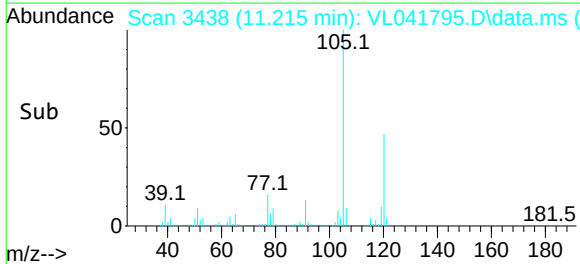
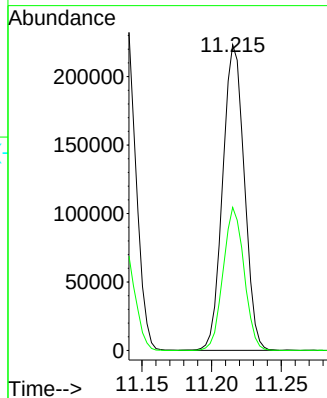
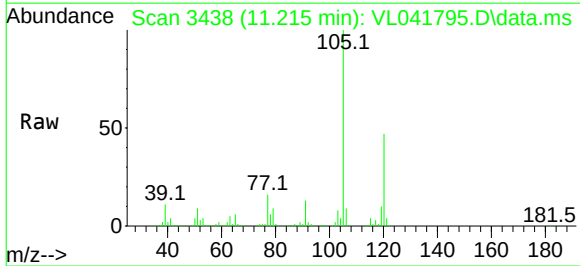
120 46.8 37.4 56.2

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

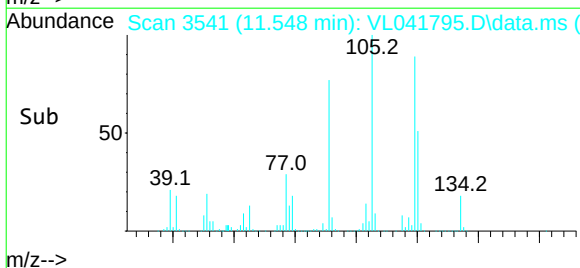
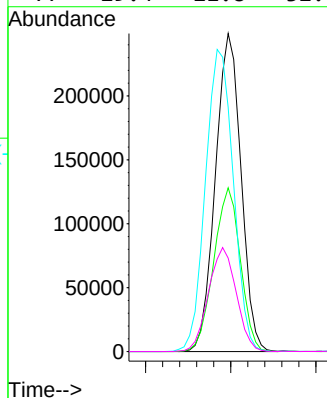
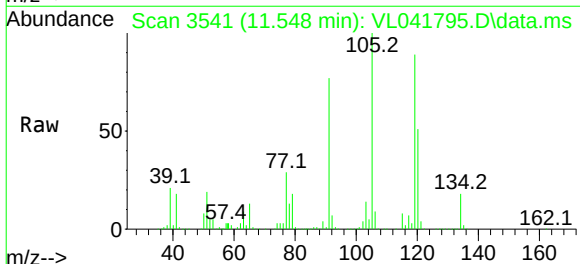
Ion Ratio Lower Upper

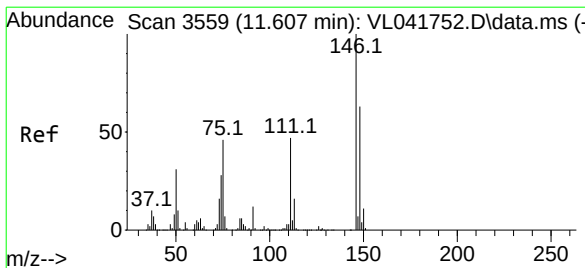
105 100

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 :

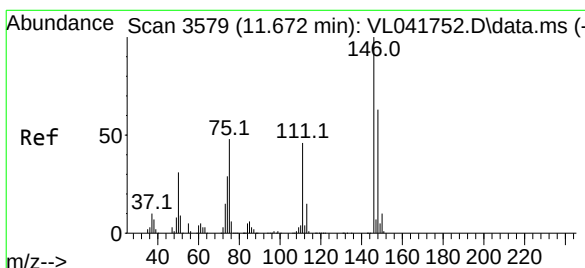
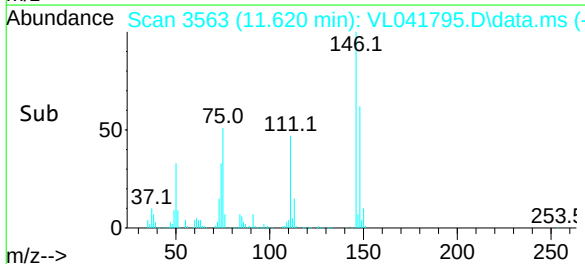
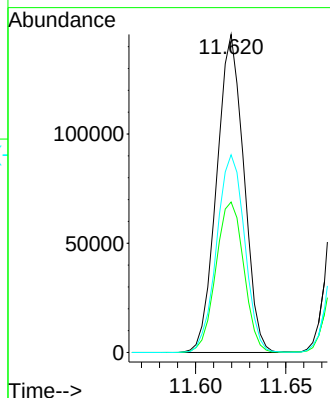
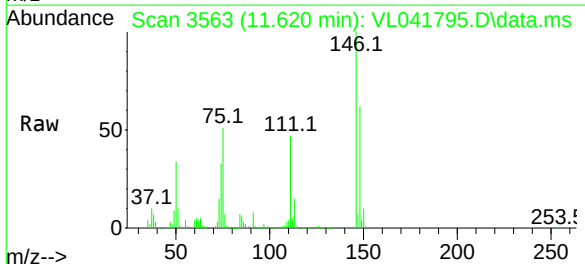
VL1218ABS01

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

APPROVED

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



#76

1,4-Dichlorobenzene

Concen: 9.926 ppbv

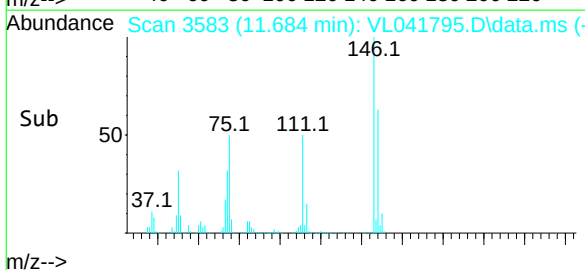
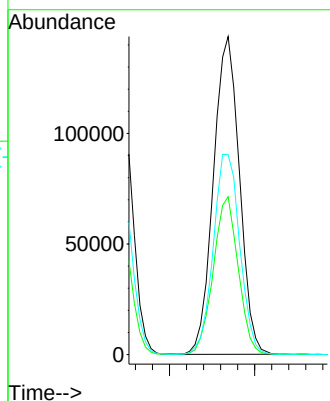
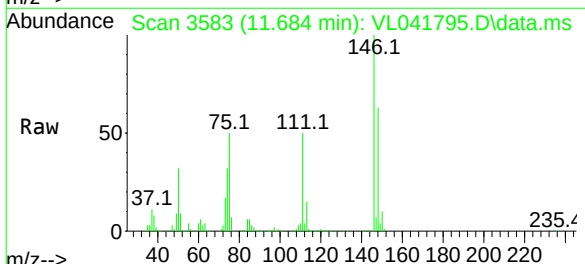
RT: 11.684 min Scan# 3583

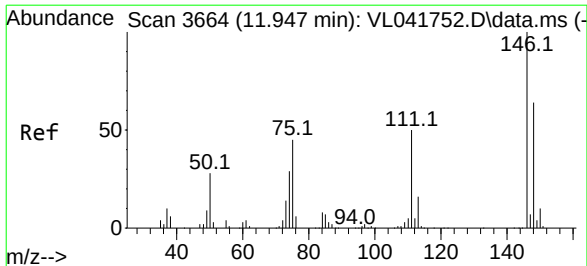
Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

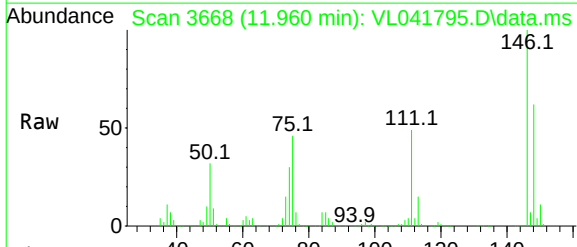
Tgt Ion:	146	Resp:	152432
Ion Ratio	Lower	Upper	
146	100		
111	47.8	22.7	68.1
148	64.5	31.4	94.0





#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

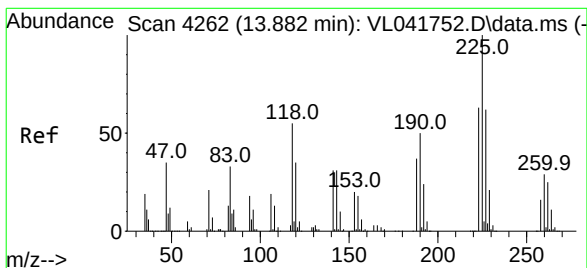
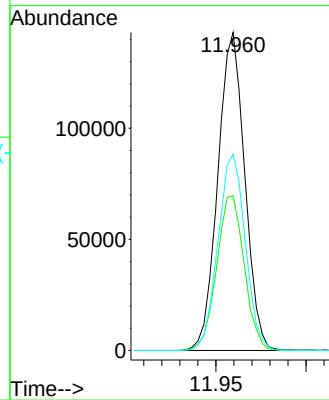
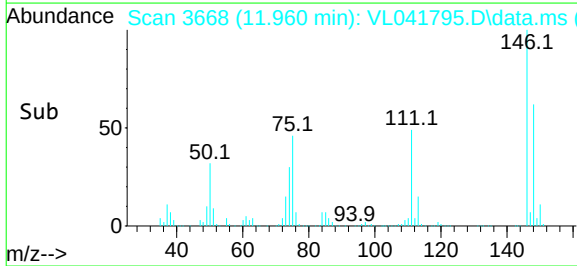
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01



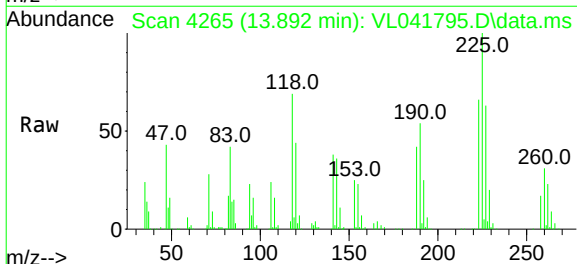
Tgt Ion:146 Resp: 148412
Ion Ratio Lower Upper
146 100
111 50.0 24.8 74.3
148 62.8 31.8 95.4

Manual Integrations
APPROVED

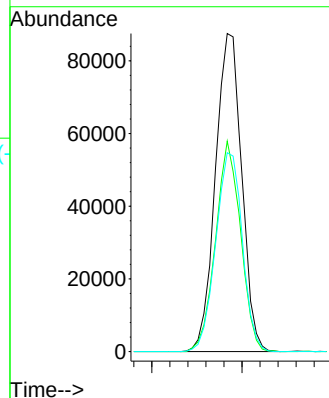
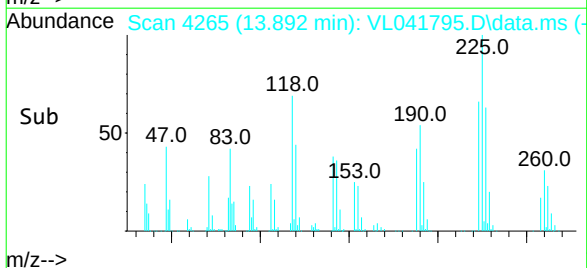
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

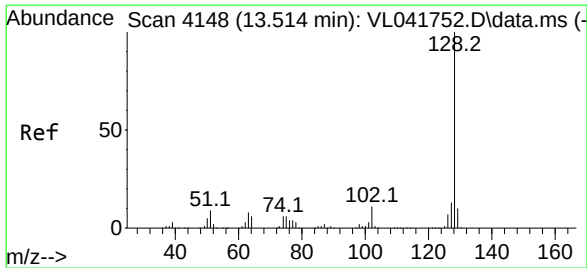


#78
Hexachloro-1,3-Butadiene
Concen: 7.987 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06



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# 41

Delta R.T. 0.009 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

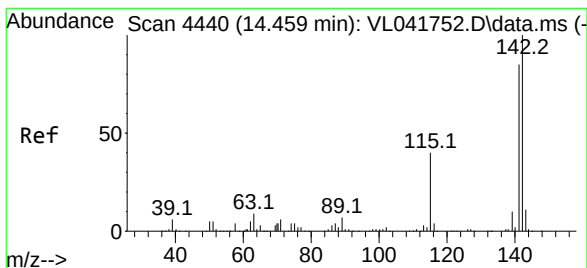
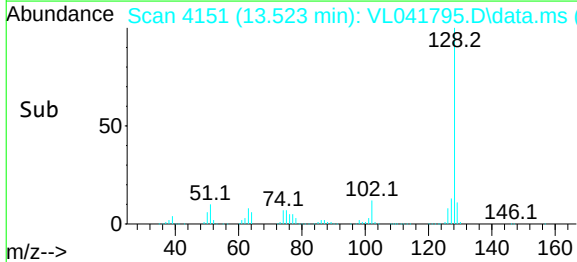
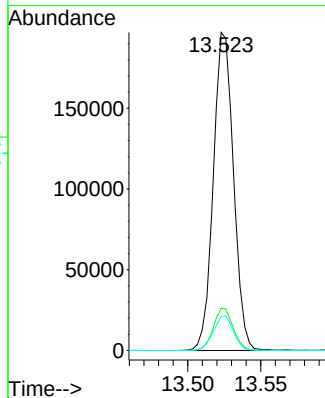
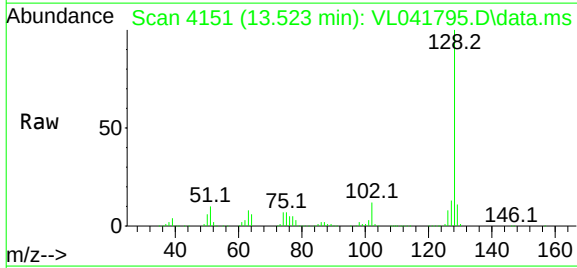
VL1218ABS01

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

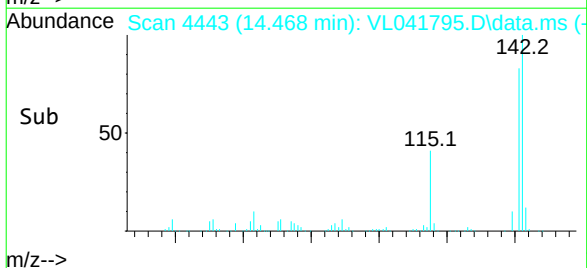
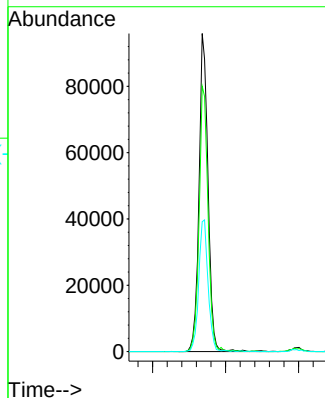
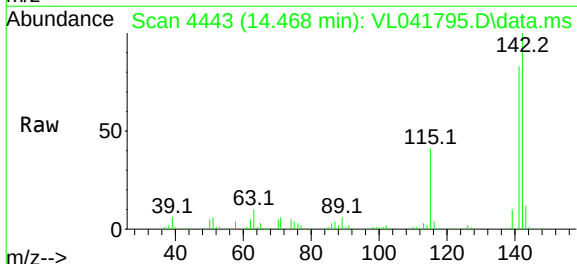
RT: 14.468 min Scan# 4443

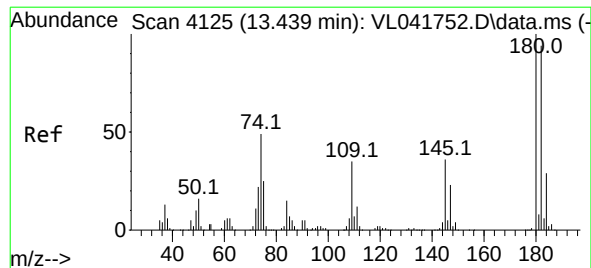
Delta R.T. 0.009 min

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

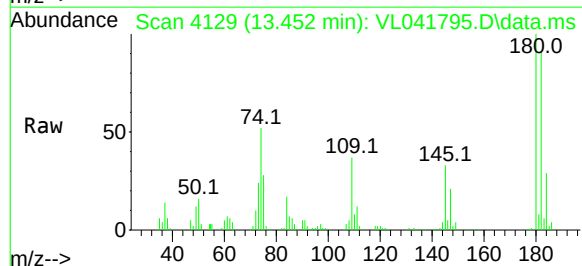
Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01



Tgt Ion:180 Resp: 89052

Ion Ratio Lower Upper

180 100

182 95.5 77.0 115.6

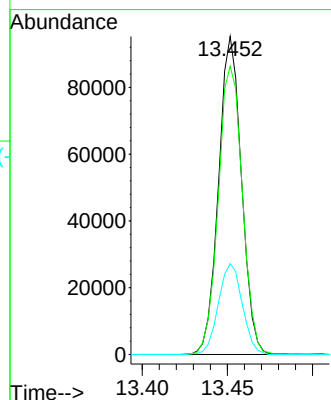
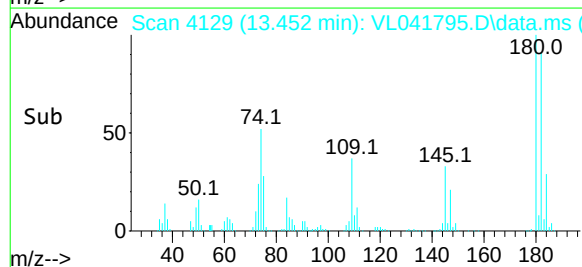
184 29.8 23.8 35.8

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
P5293-01DUP	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
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
P5294-01	VL041802.D	2,2,4-Trimethylpentane	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	4-Methyl-2-Pentanone	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	Carbon Tetrachloride	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	Chlorobenzene	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 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
P5294-01	VL041802.D	Chlorodifluoromethane	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	Cyclohexane	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	Heptane	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	m/p-Xylene	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-01	VL041802.D	Propene	SAM	12/19/2024 12:19:34 PM	MMDadoda	12/19/2024 2:45:38 PM	Peak Integrated by Software
P5294-02	VL041803.D	2,2,4-Trimethylpentane	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	Benzene	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	Carbon Tetrachloride	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	Chlorodifluoromethane	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	Cyclohexane	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	Ethyl Acetate	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	Heptane	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-02	VL041803.D	m/p-Xylene	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 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
P5294-02	VL041803.D	Propene	SAM	12/19/2024 12:18:36 PM	MMDadoda	12/19/2024 2:45:39 PM	Peak Integrated by Software
P5294-03	VL041811.D	2,2,4-Trimethylpentane	SAM	12/23/2024 5:30:45 AM	MMDadoda	12/23/2024 5:32:43 AM	Peak Integrated by Software
P5294-03	VL041811.D	Carbon Tetrachloride	SAM	12/23/2024 5:30:45 AM	MMDadoda	12/23/2024 5:32:43 AM	Peak Integrated by Software
P5294-03	VL041811.D	Chlorodifluoromethane	SAM	12/23/2024 5:30:45 AM	MMDadoda	12/23/2024 5:32:43 AM	Peak Integrated by Software
P5294-03	VL041811.D	m/p-Xylene	SAM	12/23/2024 5:30:45 AM	MMDadoda	12/23/2024 5:32:43 AM	Peak Integrated by Software
P5294-03	VL041811.D	o-Xylene	SAM	12/23/2024 5:30:45 AM	MMDadoda	12/23/2024 5:32:43 AM	Peak Integrated by Software
P5294-03	VL041811.D	Propene	SAM	12/23/2024 5:30:45 AM	MMDadoda	12/23/2024 5:32:43 AM	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	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	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,M
6	MDL 0.4	VL041792.D	18 Dec 2024 13:30	SY/MD	Ok,M
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	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					

22	P5295-02DL	VL041808.D	18 Dec 2024 23:08	SY/MD	Ok,M
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,M
25	P5294-03	VL041811.D	19 Dec 2024 00:44	SY/MD	Ok,M
26	P5292-01	VL041812.D	19 Dec 2024 01:18	SY/MD	Ok,M
27	P5292-02	VL041813.D	19 Dec 2024 01:55	SY/MD	Ok,M
28	P5295-01DL	VL041814.D	19 Dec 2024 02:26	SY/MD	Ok,M
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	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					

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,M
6	MDL 0.4	MDL 0.4	VL041792.D	18 Dec 2024 13:30		SY/MD	Ok,M
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	P5295-02DL	C0AC9DL	VL041808.D	18 Dec 2024 23:08		SY/MD	Ok,M
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,M
25	P5294-03	C0AB8	VL041811.D	19 Dec 2024 00:44		SY/MD	Ok,M
26	P5292-01	C0AC5	VL041812.D	19 Dec 2024 01:18		SY/MD	Ok,M
27	P5292-02	C0AC6	VL041813.D	19 Dec 2024 01:55		SY/MD	Ok,M
28	P5295-01DL	C0AC8DL	VL041814.D	19 Dec 2024 02:26		SY/MD	Ok,M
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

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

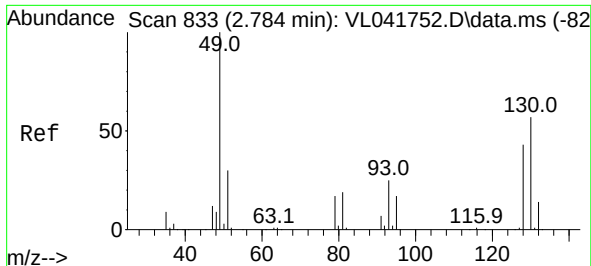
Quant Time: Dec 19 06:11:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

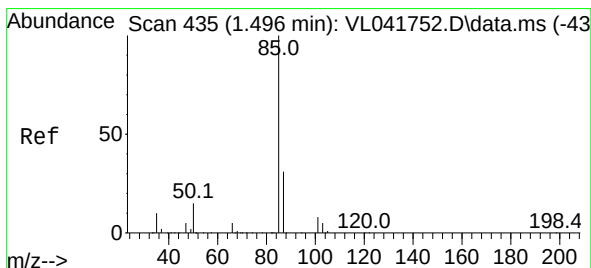
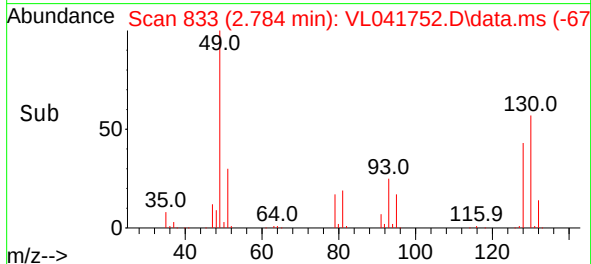
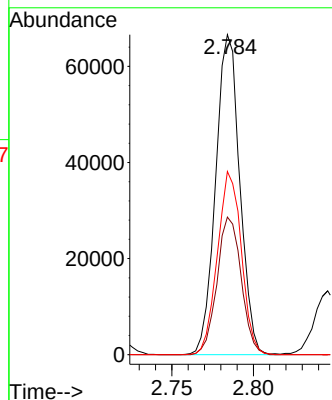
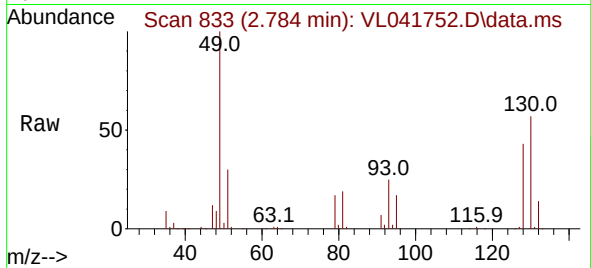




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

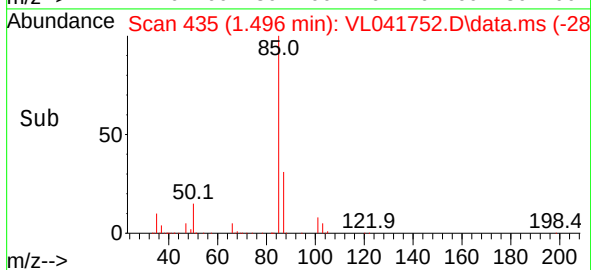
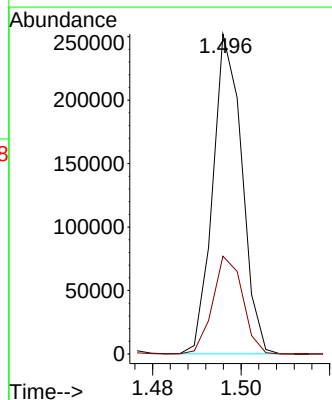
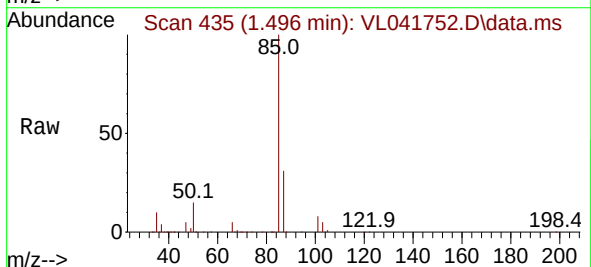
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

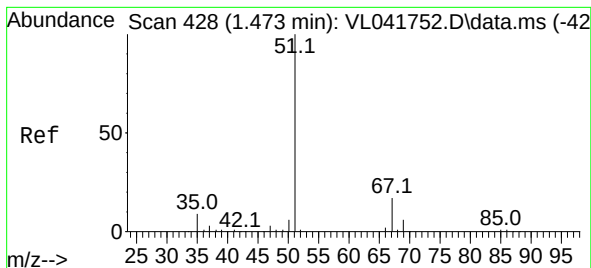
Tgt Ion: 49 Resp: 68599
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.6
130 56.7 28.3 85.0



#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 :

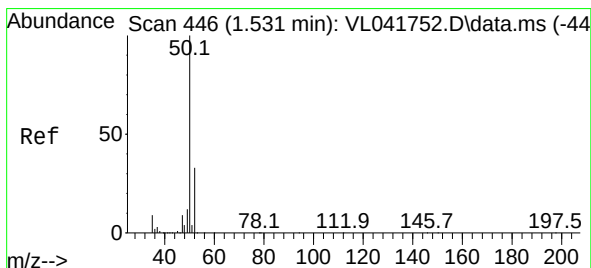
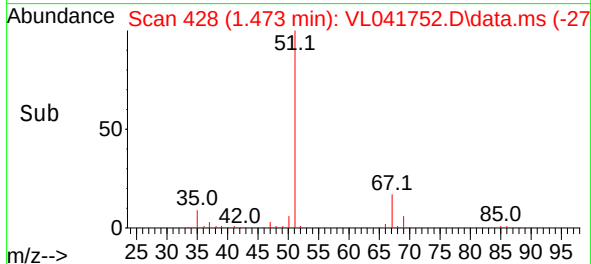
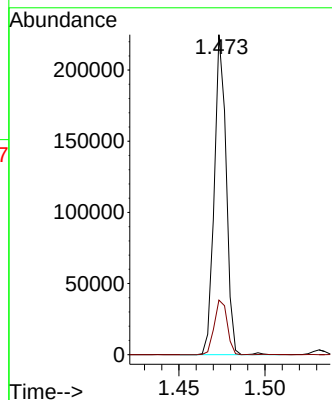
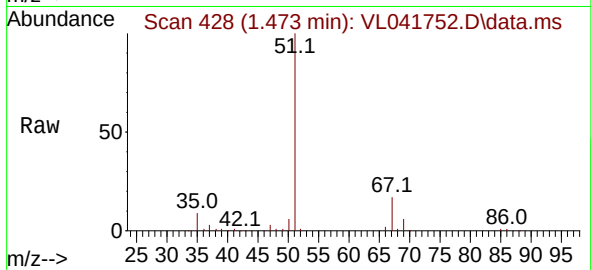
VSTDICCC010

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

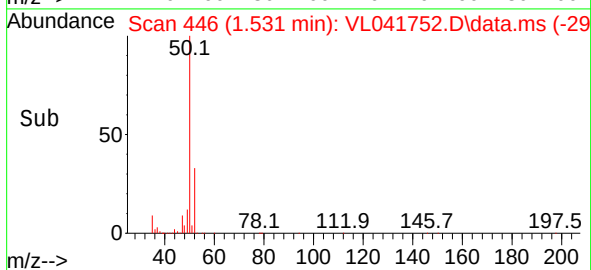
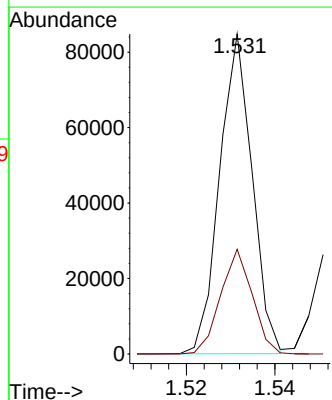
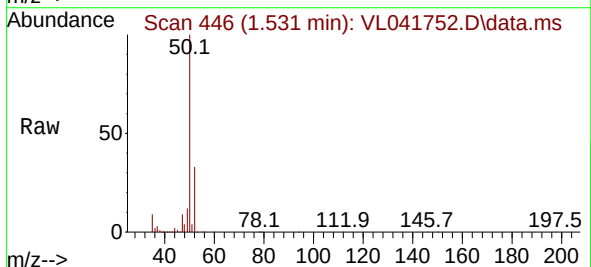
Acq: 16 Dec 2024 13:30

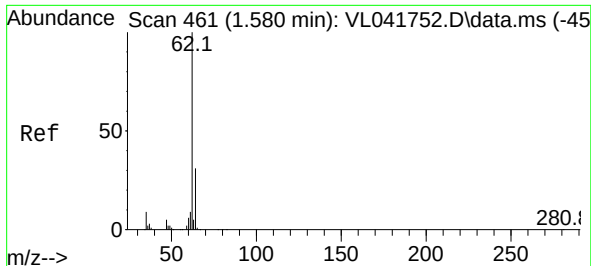
Tgt Ion: 50 Resp: 43215

Ion Ratio Lower Upper

50 100

52 32.7 26.2 39.2

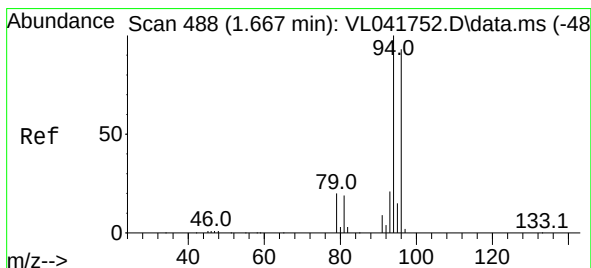
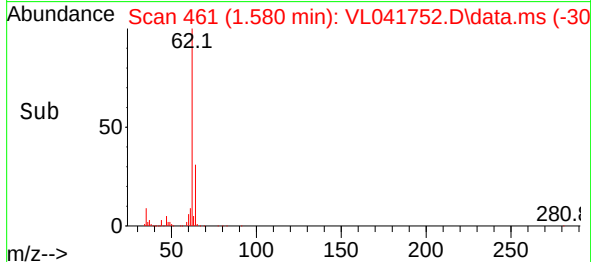
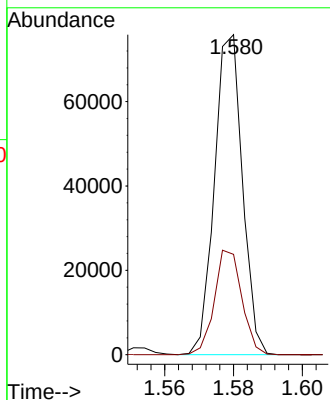
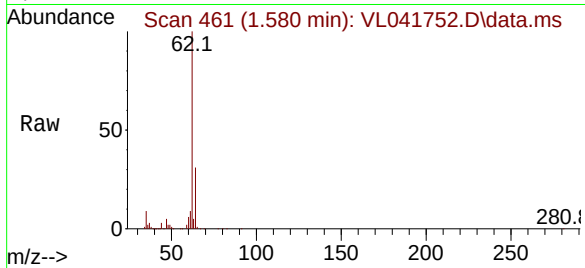




#5
 Vinyl Chloride
 Concen: 8.905 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

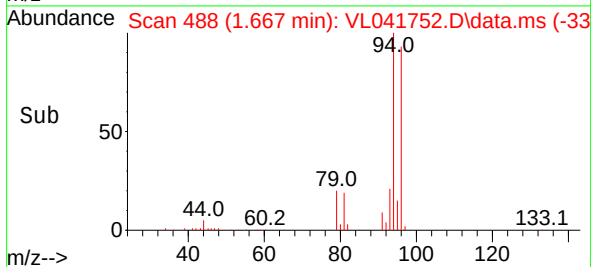
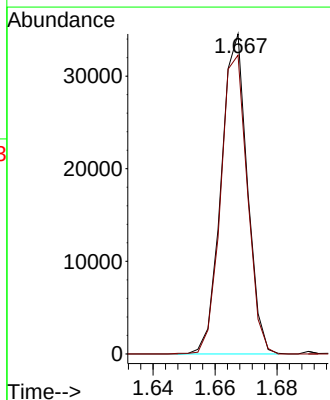
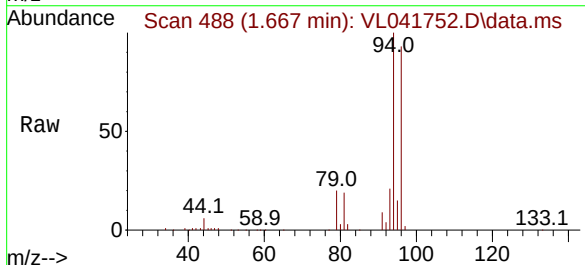
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

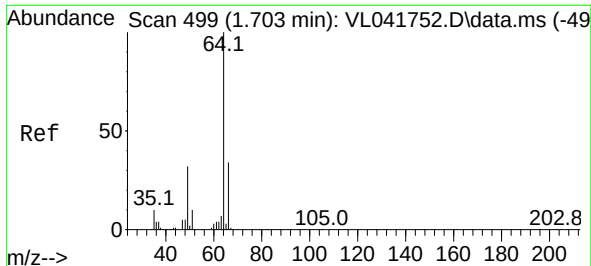
Tgt Ion: 62 Resp: 42849
 Ion Ratio Lower Upper
 62 100
 64 31.4 25.1 37.7



#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

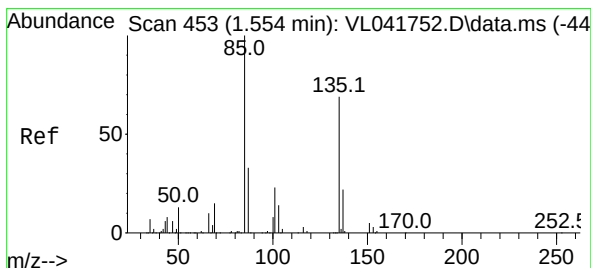
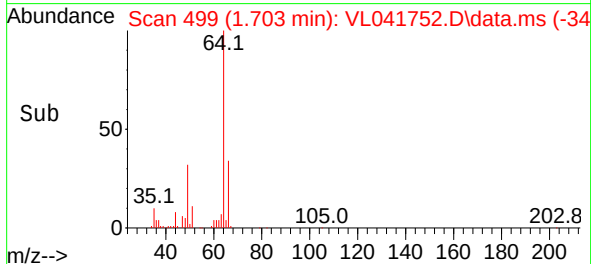
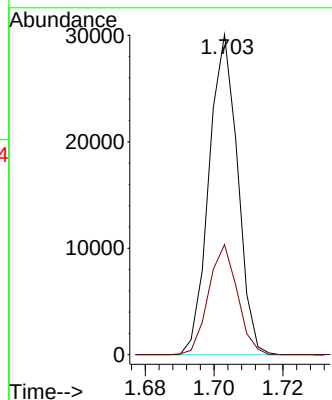
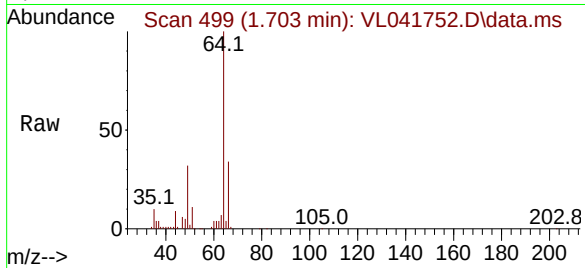




#7
Chloroethane
Concen: 9.311 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

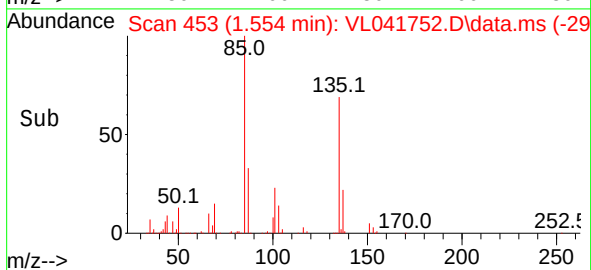
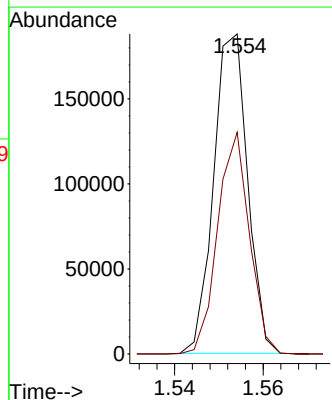
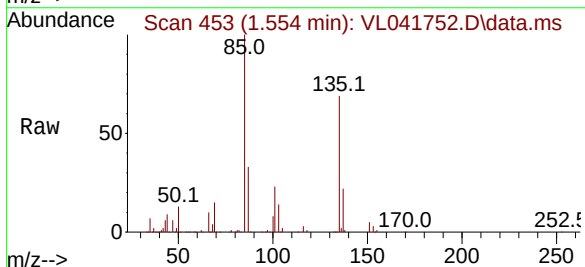
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

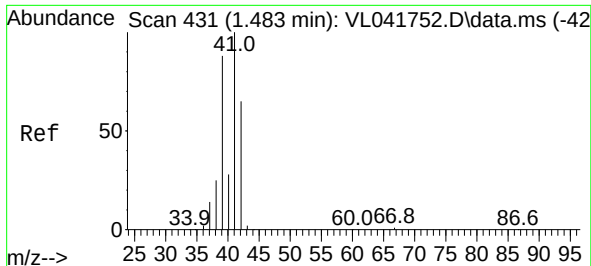
Tgt Ion: 64 Resp: 17403
Ion Ratio Lower Upper
64 100
66 34.4 27.5 41.3



#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# 431

Delta R.T. 0.000 min

Lab File: VL041752.D

Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_1

ClientSampleId :

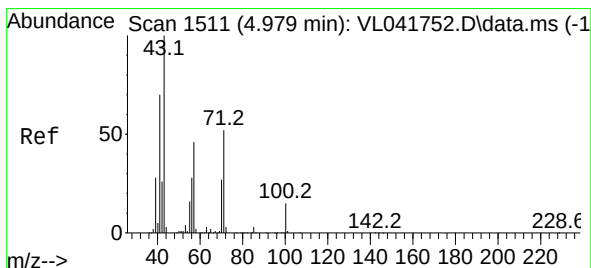
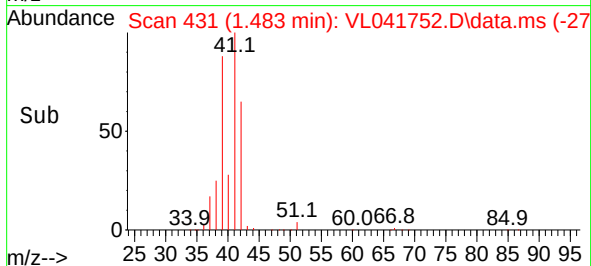
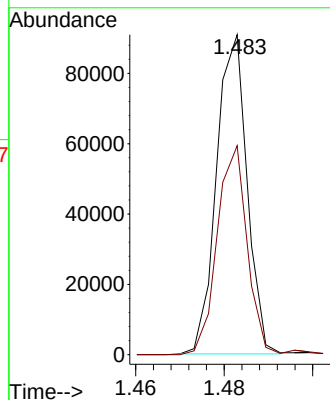
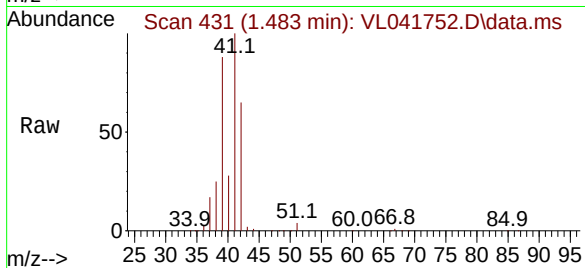
VSTDICCC010

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

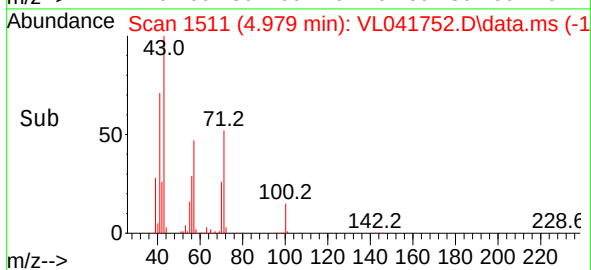
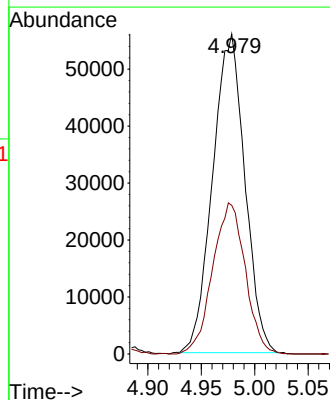
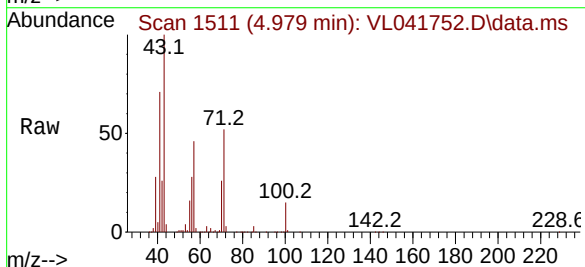
Acq: 16 Dec 2024 13:30

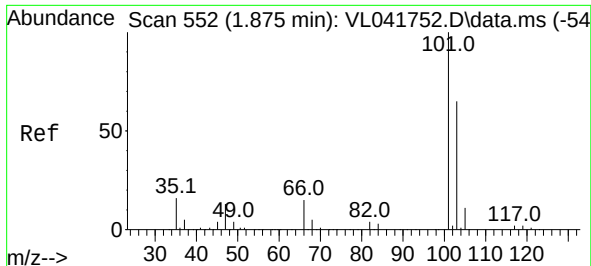
Tgt Ion: 43 Resp: 116969

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 :

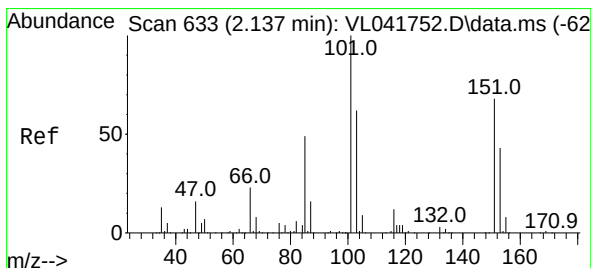
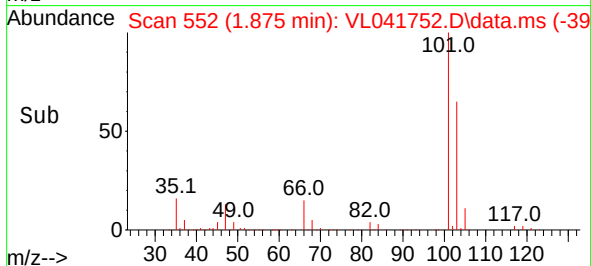
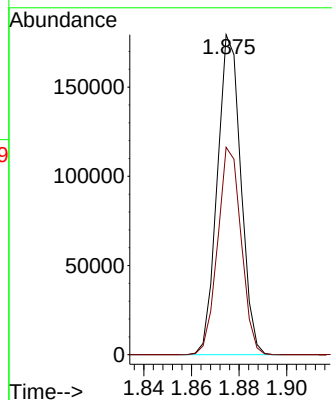
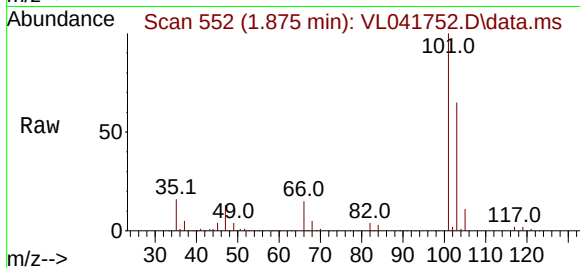
VSTDICCC010

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

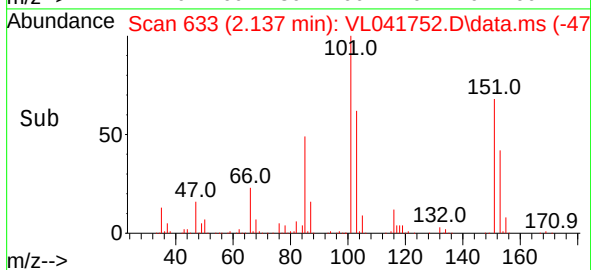
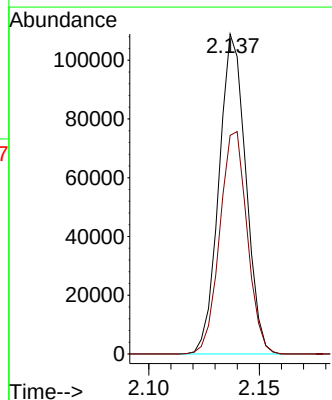
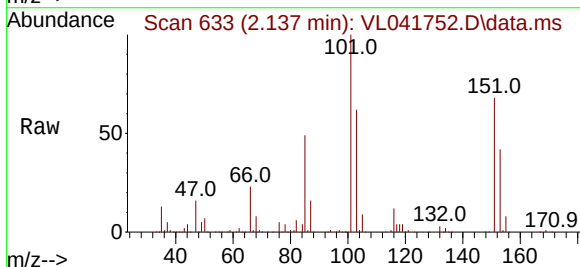
Acq: 16 Dec 2024 13:30

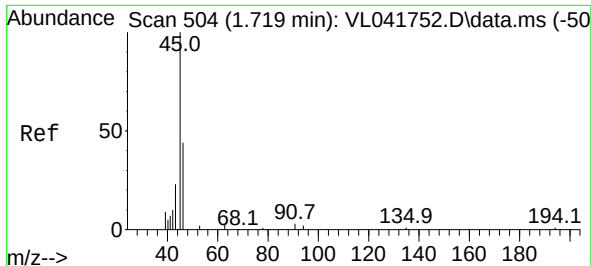
Tgt Ion:101 Resp: 91977

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 :

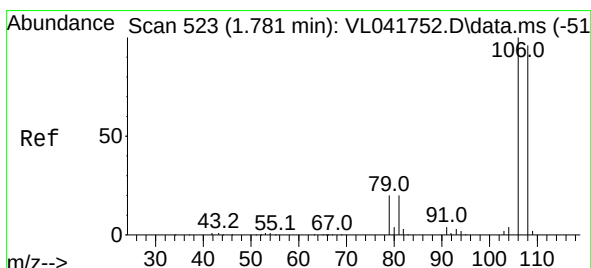
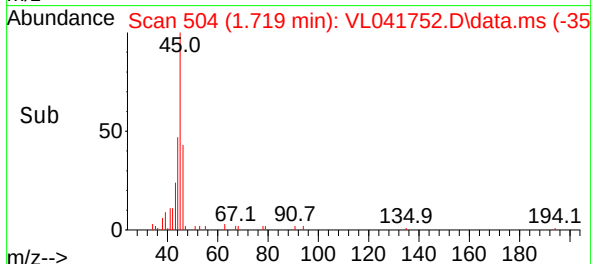
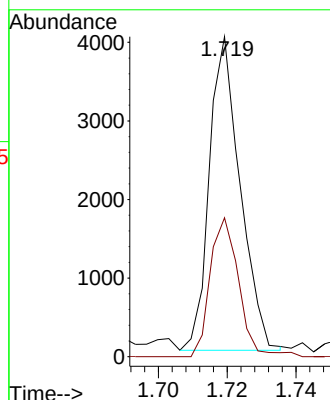
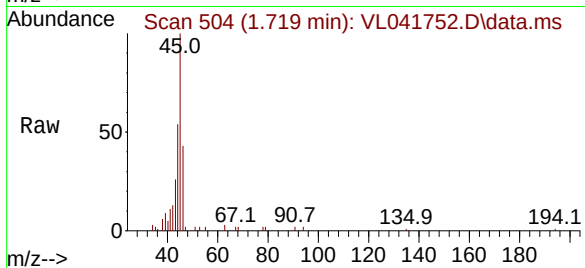
VSTDICCC010

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

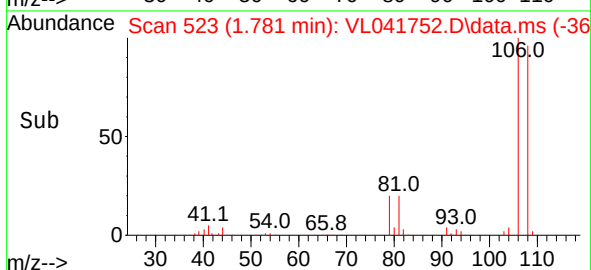
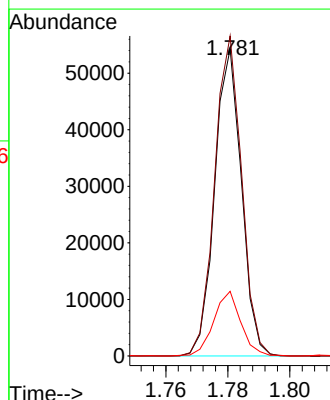
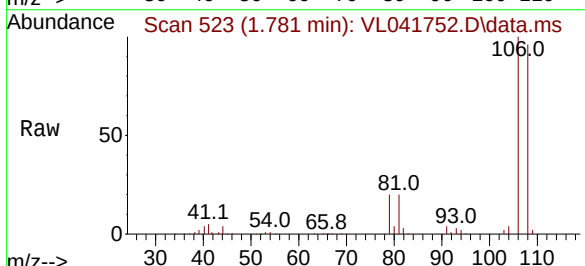
Tgt Ion: 108 Resp: 32528

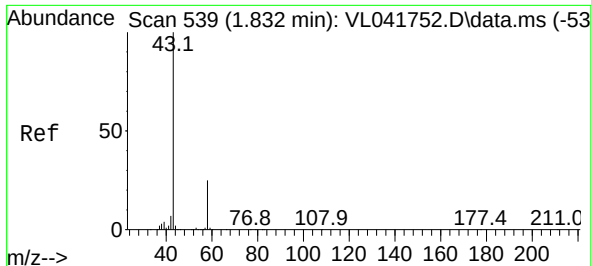
Ion Ratio Lower Upper

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 :

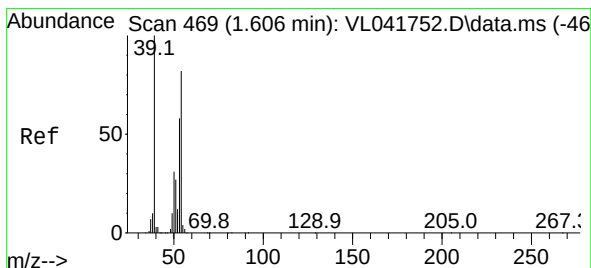
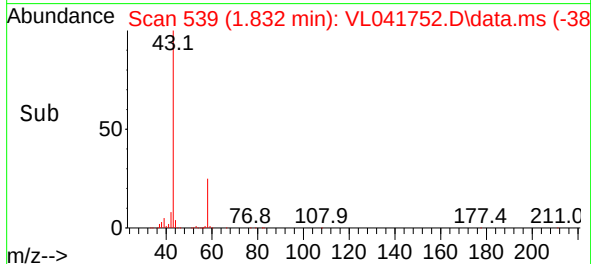
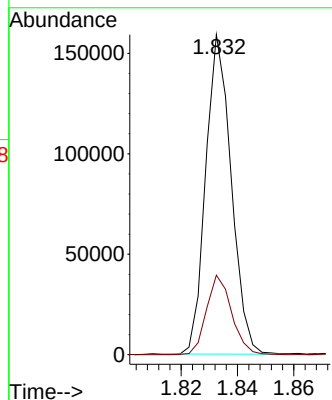
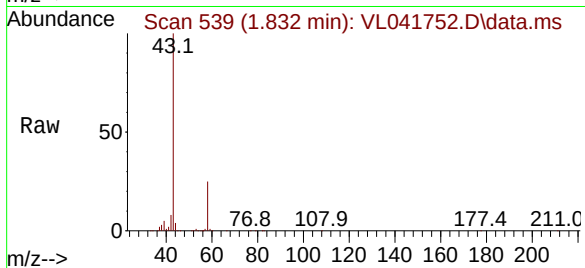
VSTDICCC010

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

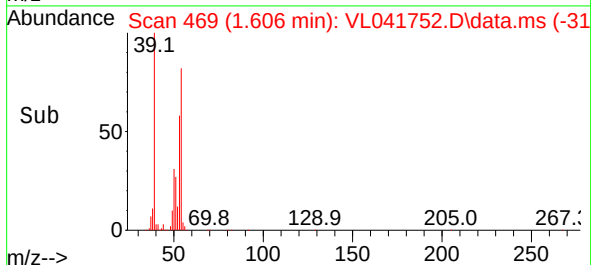
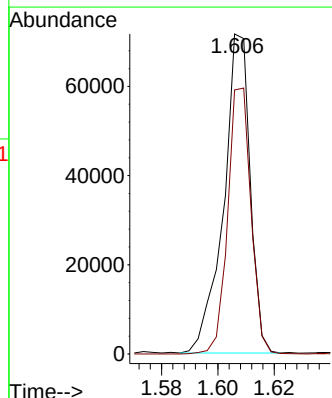
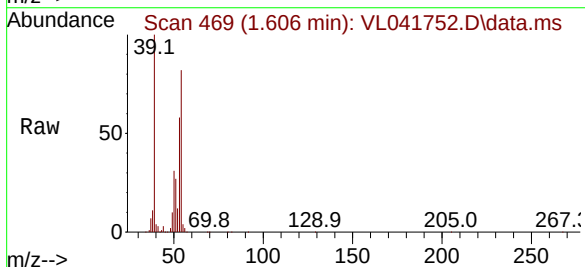
Acq: 16 Dec 2024 13:30

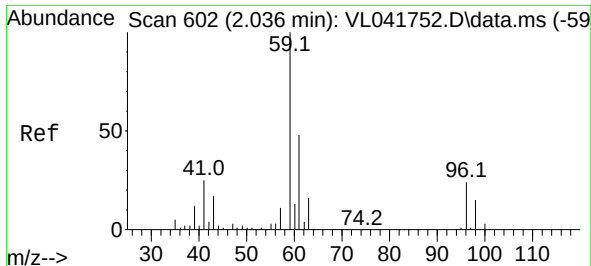
Tgt Ion: 39 Resp: 46989

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 :

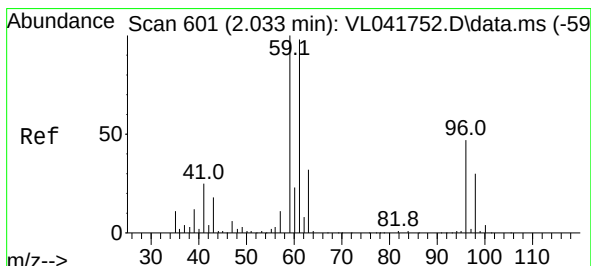
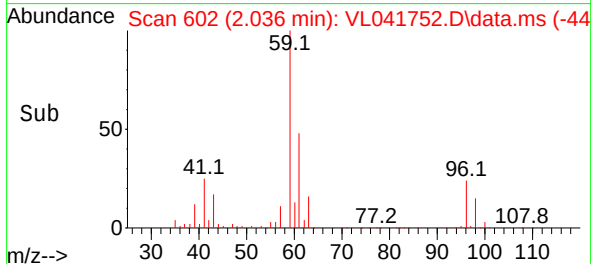
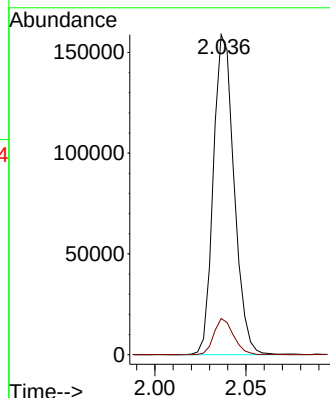
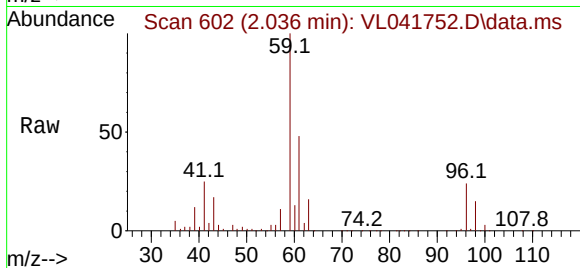
VSTDICCC010

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

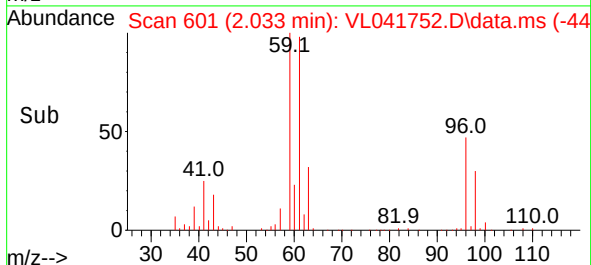
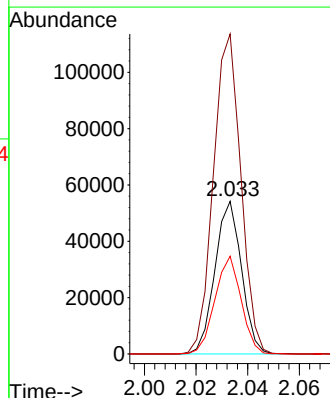
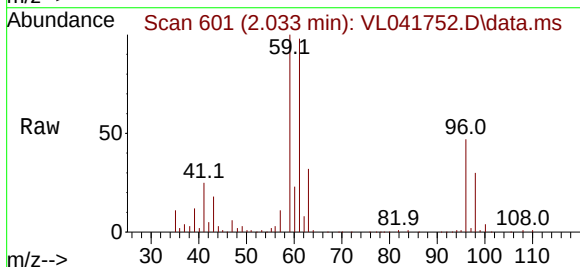
Tgt Ion: 96 Resp: 38775

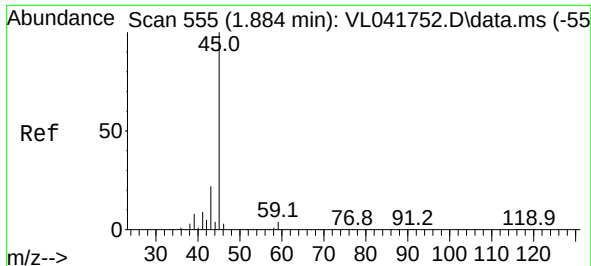
Ion Ratio Lower Upper

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_L

ClientSampleId :

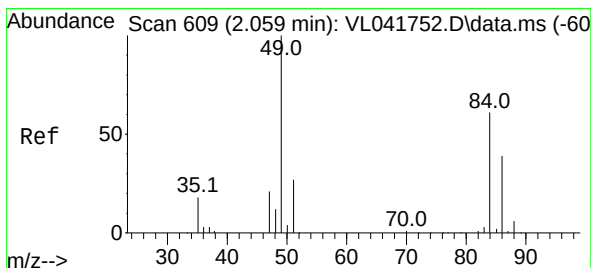
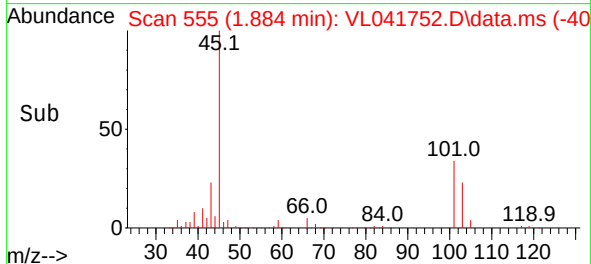
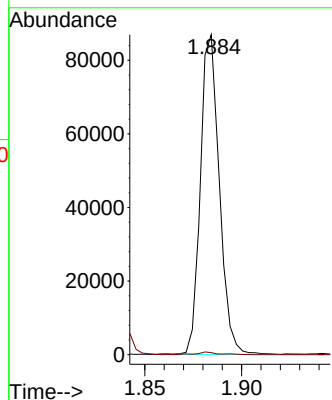
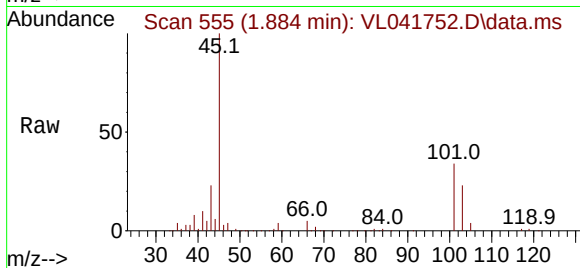
VSTDICCC010

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

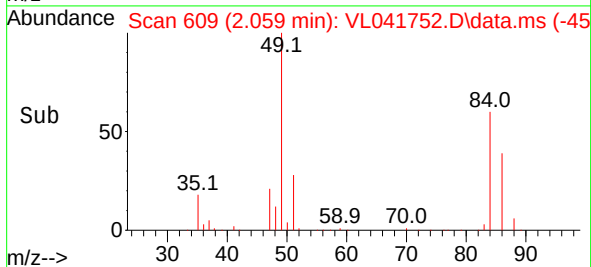
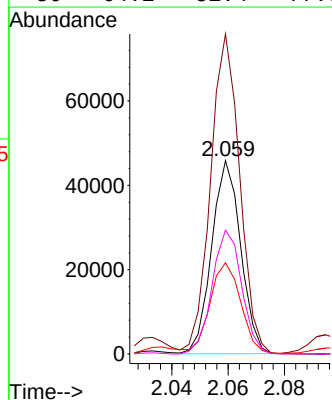
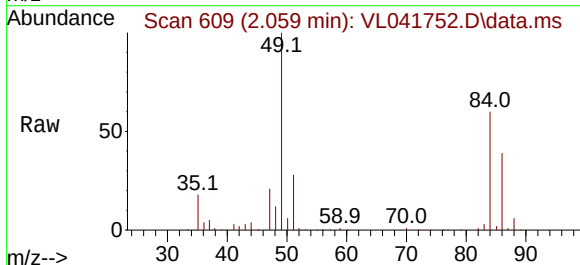
Ion Ratio Lower Upper

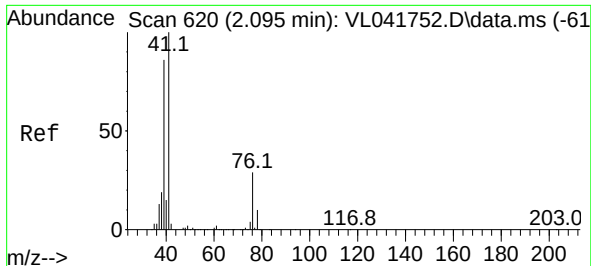
84 100

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

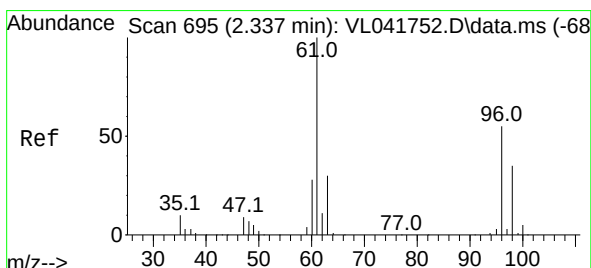
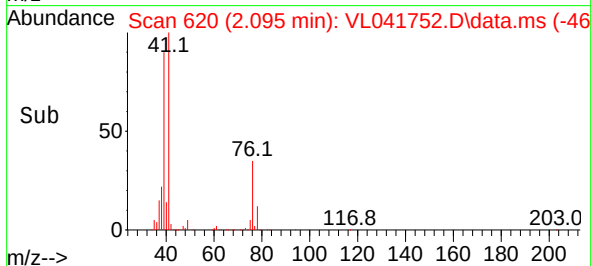
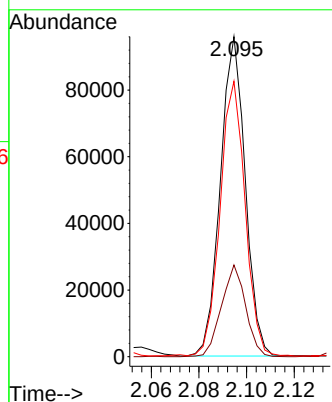
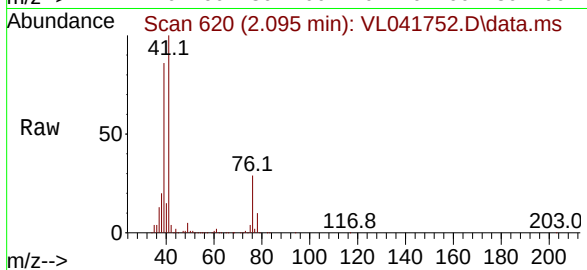
Tgt Ion: 41 Resp: 69406

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

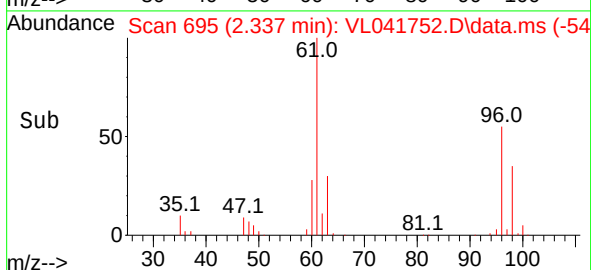
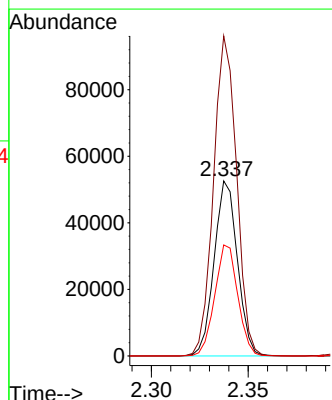
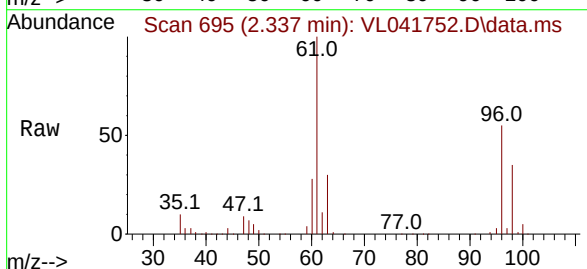
Tgt Ion: 96 Resp: 43898

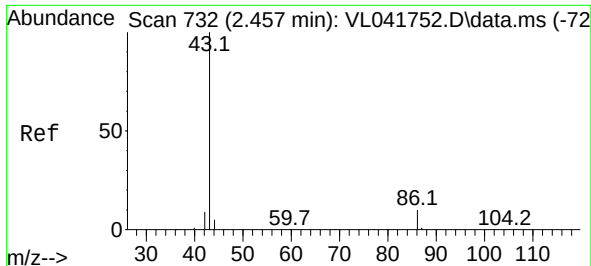
Ion Ratio Lower Upper

96 100

61 182.9 146.3 219.5

98 63.5 50.8 76.2

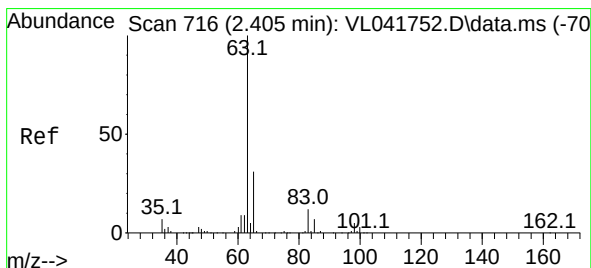
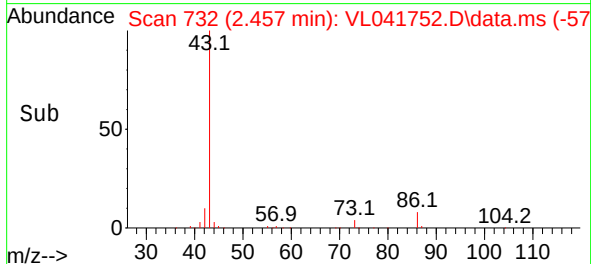
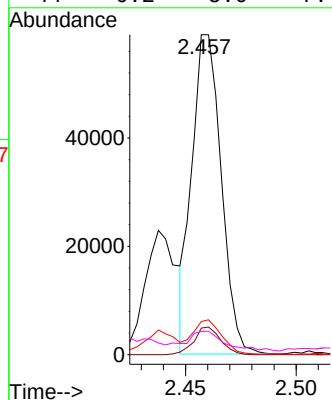
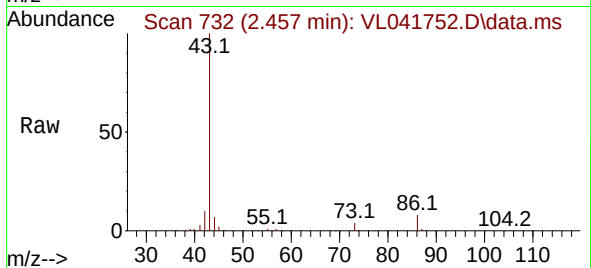




#23
 Vinyl Acetate
 Concen: 9.350 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

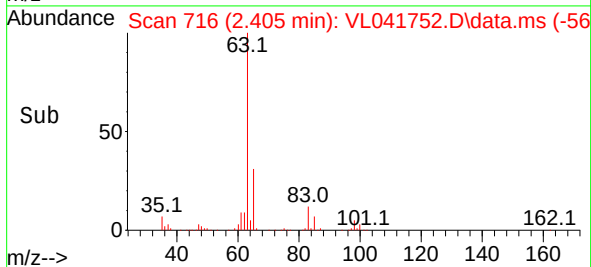
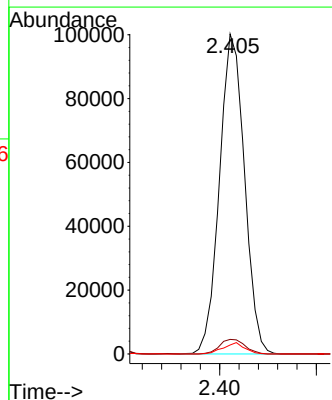
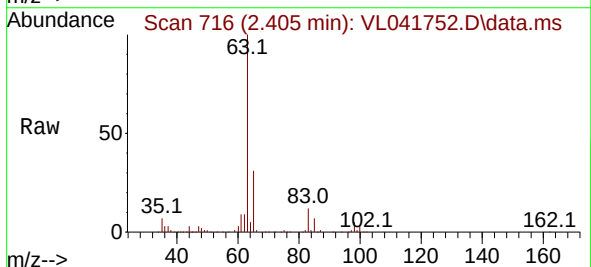
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

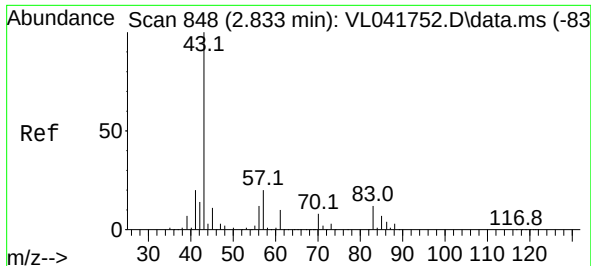
Tgt Ion:	43	Resp:	54227
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.6	10.0
42	10.2	8.2	12.2
44	6.2	5.0	7.4



#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

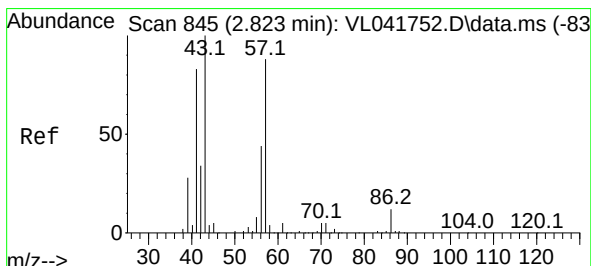
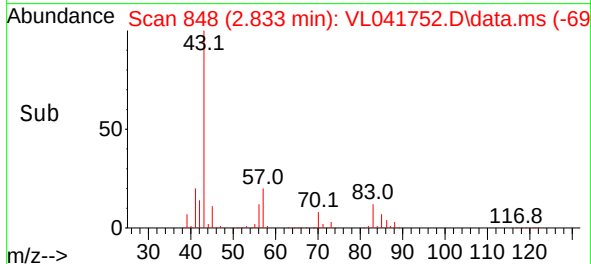
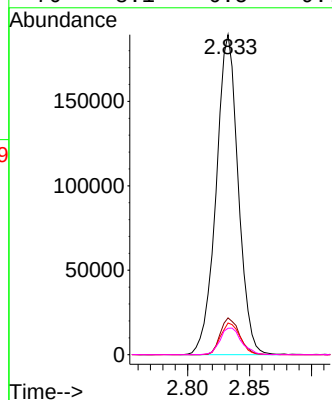
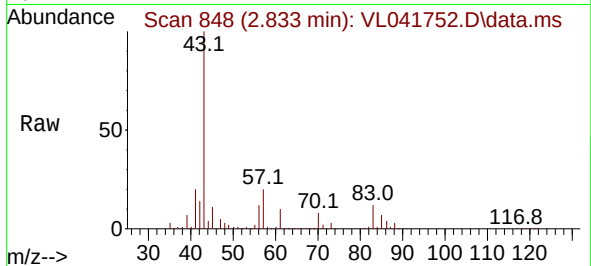




#25
Ethyl Acetate
Concen: 9.432 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

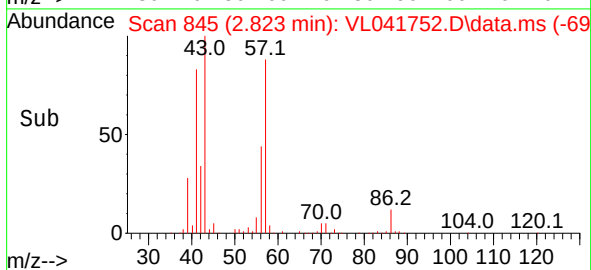
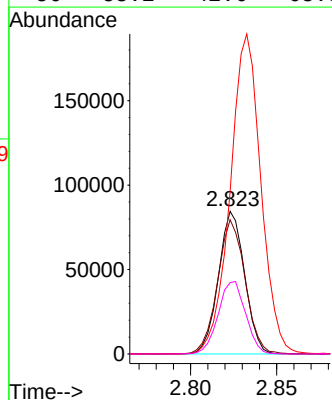
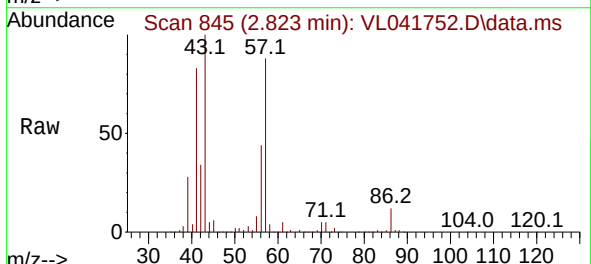
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

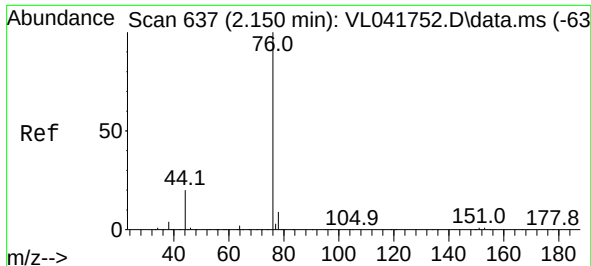
Tgt Ion:	43	Resp:	235305
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	8.8	7.0	10.6
70	8.1	6.5	9.7



#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

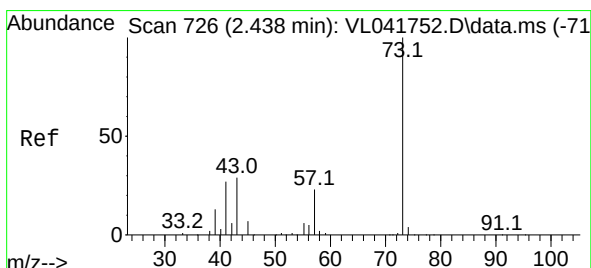
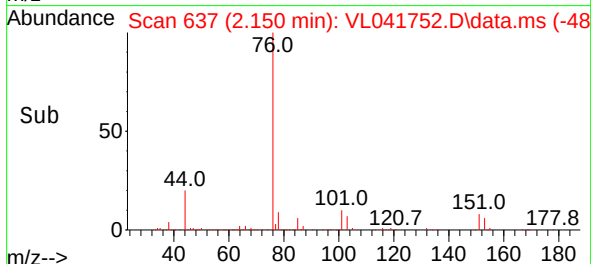
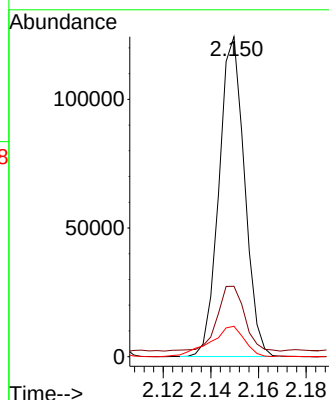
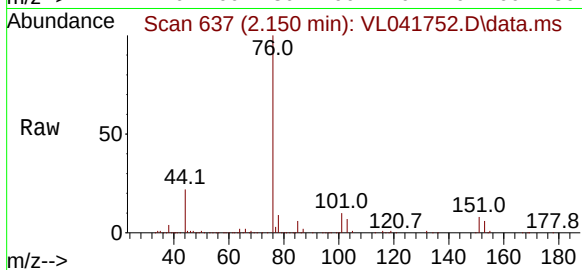
Tgt Ion: 76 Resp: 92329

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

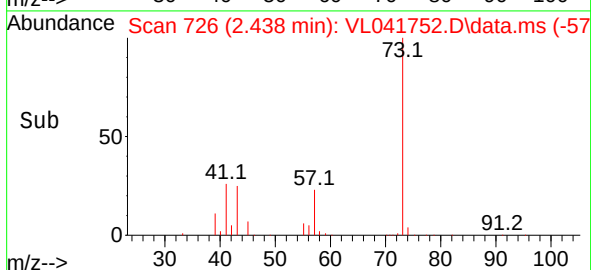
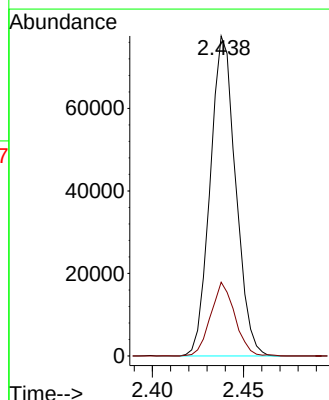
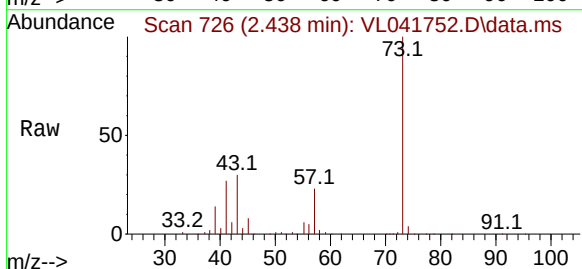
Acq: 16 Dec 2024 13:30

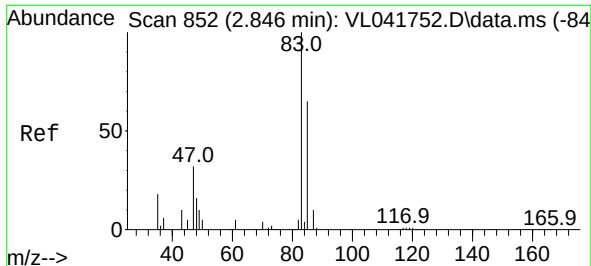
Tgt Ion: 73 Resp: 75330

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 :

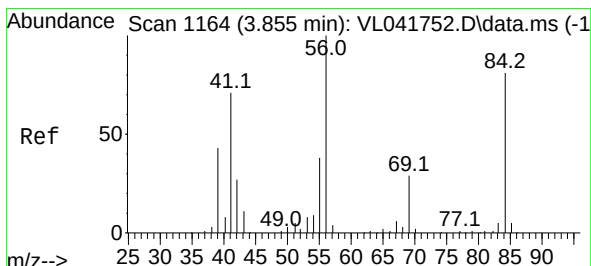
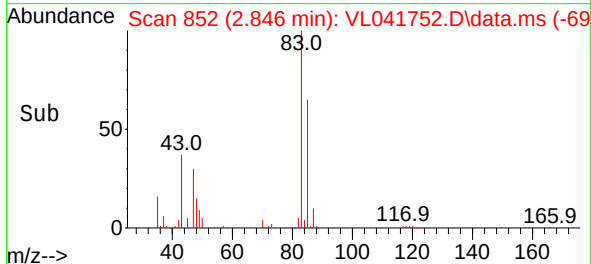
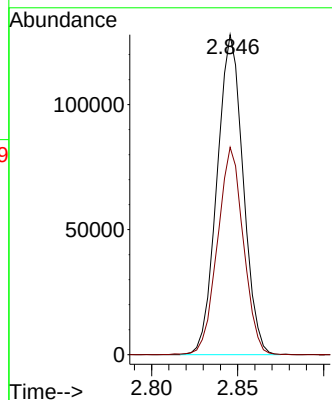
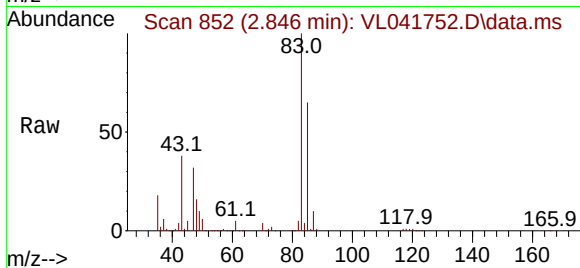
VSTDICCC010

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

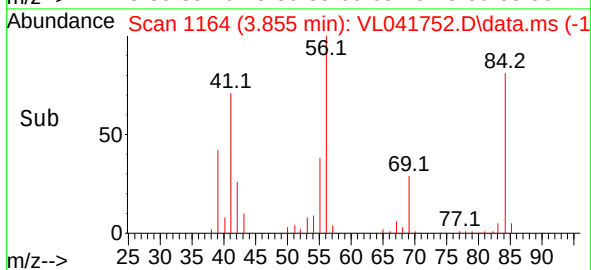
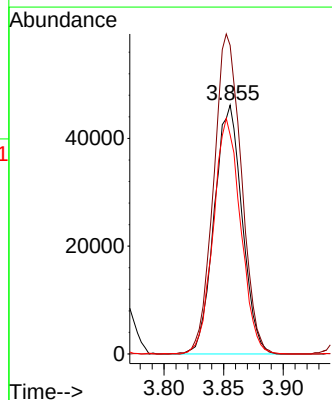
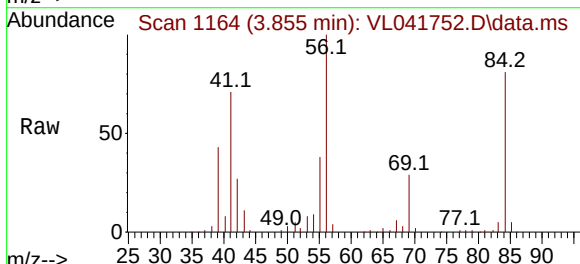
Tgt Ion: 84 Resp: 75156

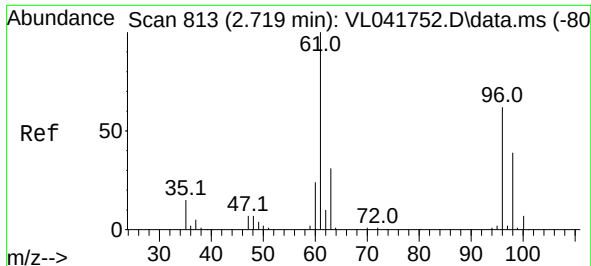
Ion Ratio Lower Upper

84 100

56 127.9 102.3 153.5

41 92.5 74.0 111.0

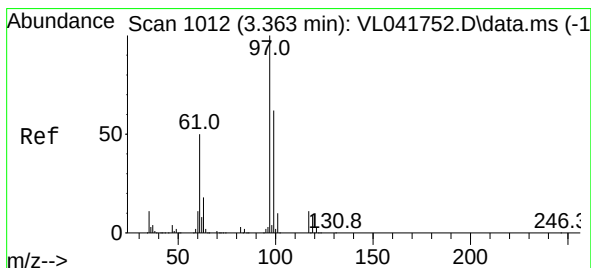
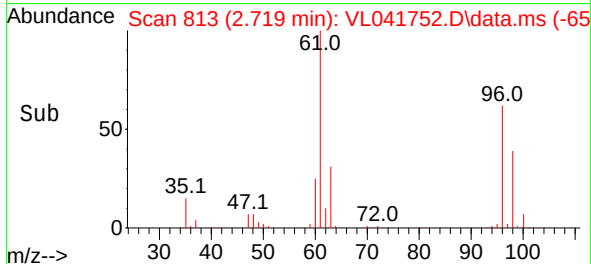
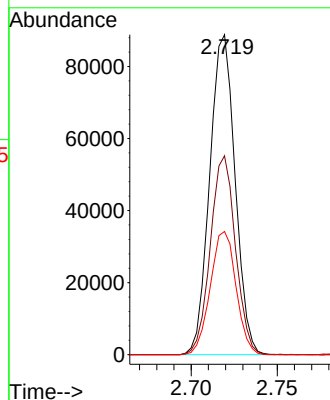
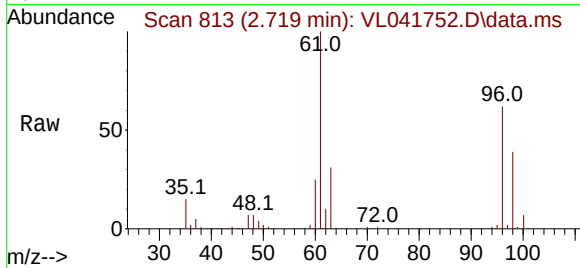




#31
 cis-1,2-Dichloroethene
 Concen: 9.374 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL041752.D
 Acq: 16 Dec 2024 13:30

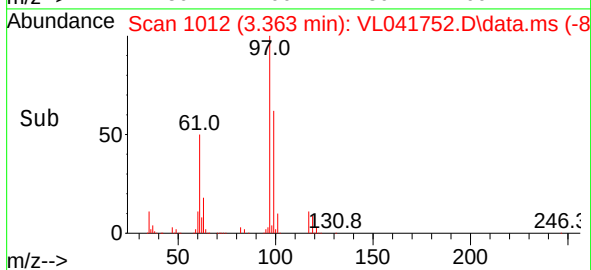
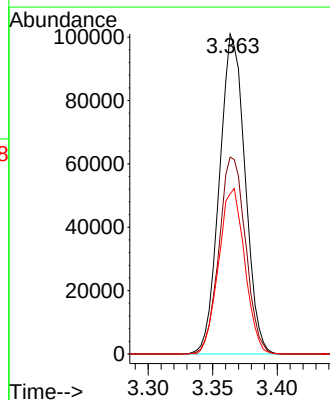
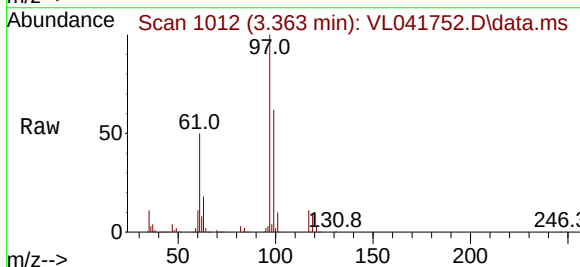
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

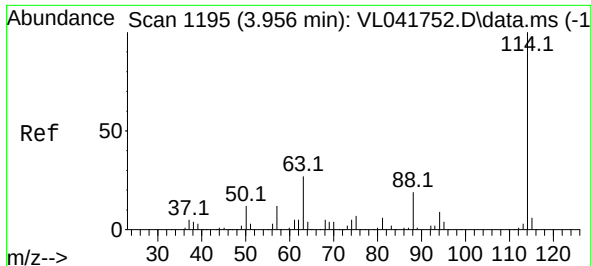
Tgt Ion: 61 Resp: 91276
 Ion Ratio Lower Upper
 61 100
 96 62.1 49.7 74.5
 98 38.5 30.8 46.2



#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

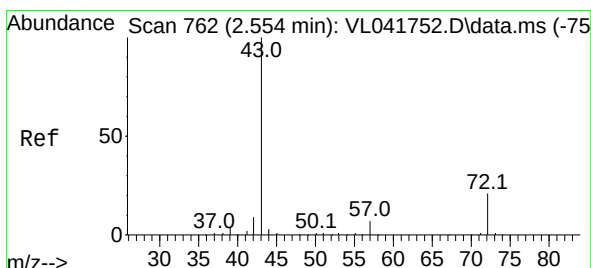
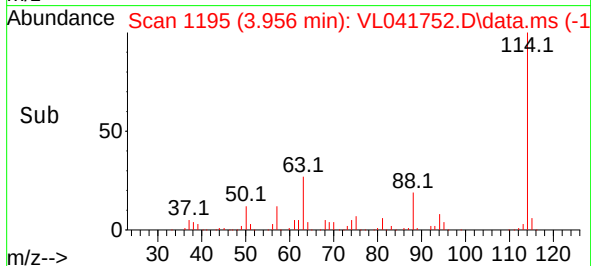
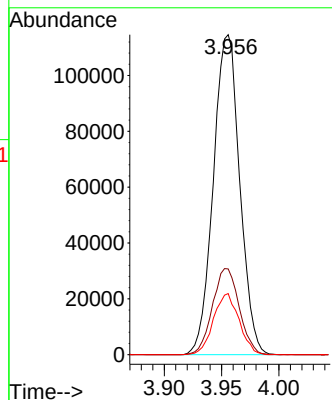
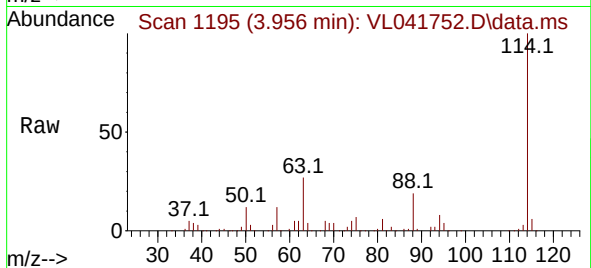
Tgt Ion:114 Resp: 183786

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

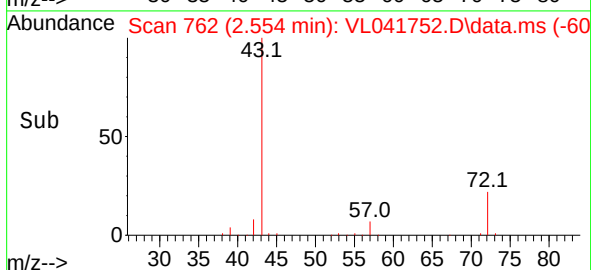
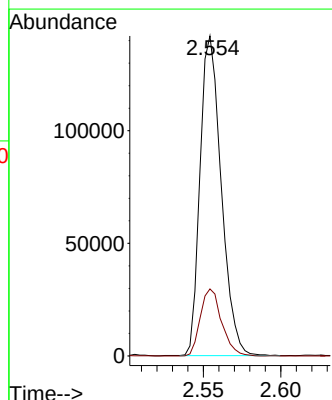
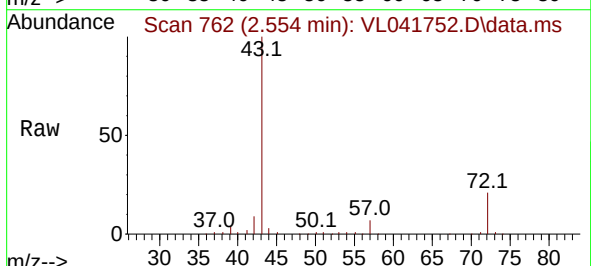
Acq: 16 Dec 2024 13:30

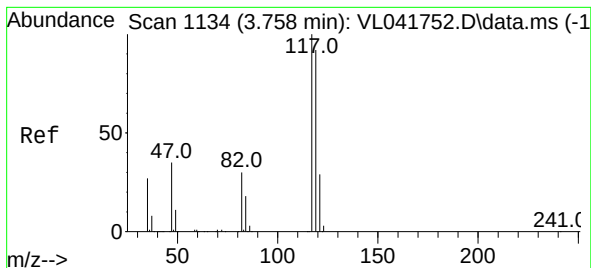
Tgt Ion: 43 Resp: 135331

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

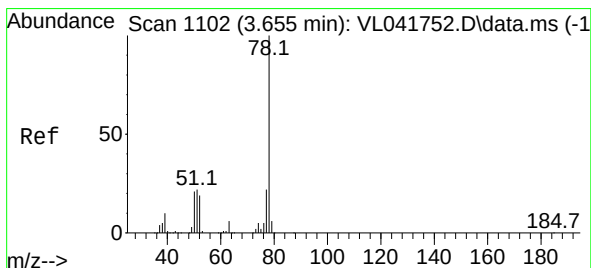
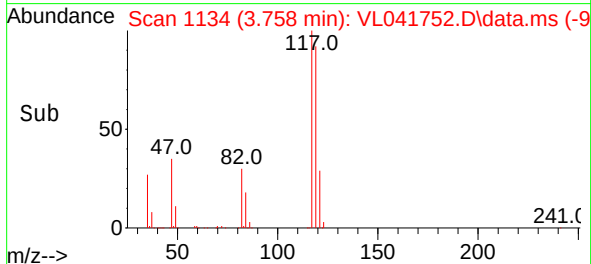
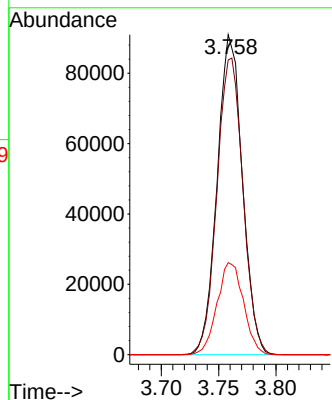
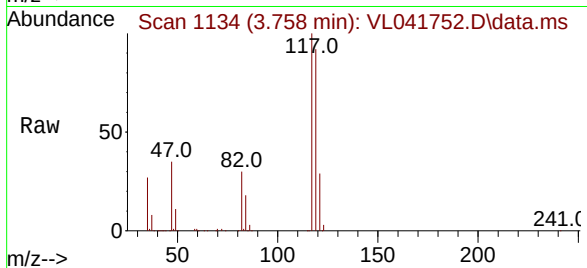
Tgt Ion:117 Resp: 138952

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

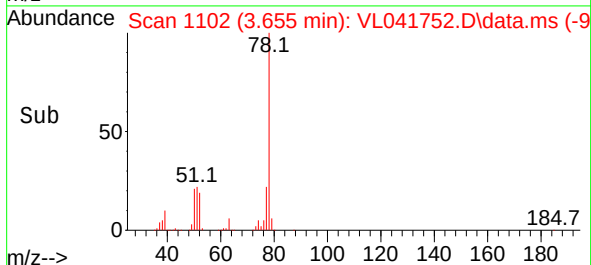
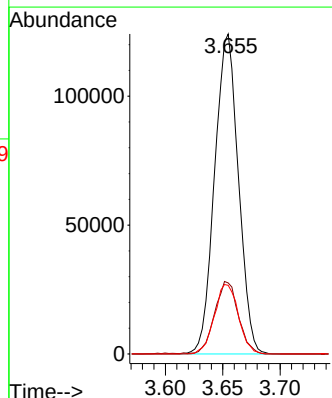
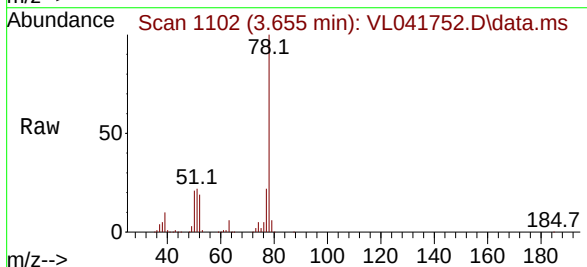
Tgt Ion: 78 Resp: 179134

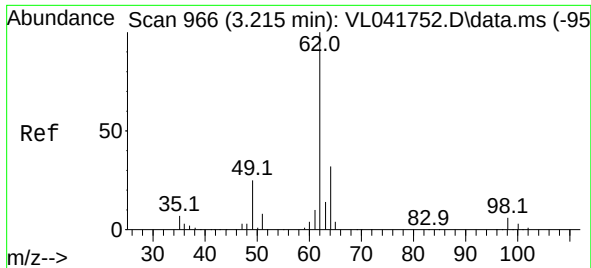
Ion Ratio Lower Upper

78 100

77 22.2 17.8 26.6

50 21.5 17.2 25.8

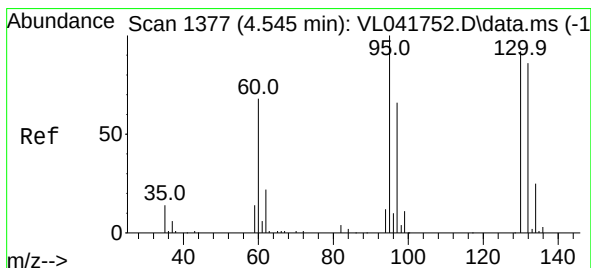
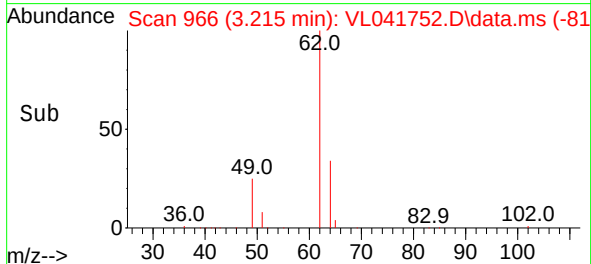
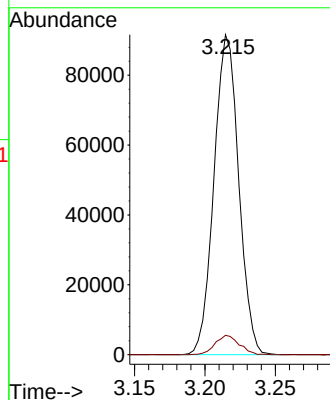
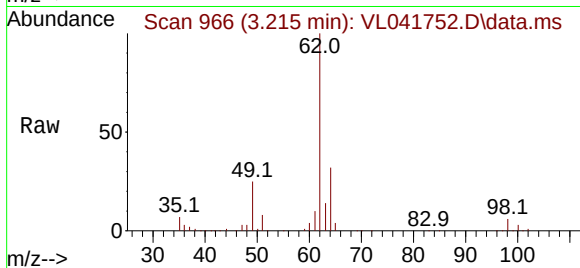




#37
1,2-Dichloroethane
Concen: 9.449 ppbv
RT: 3.215 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

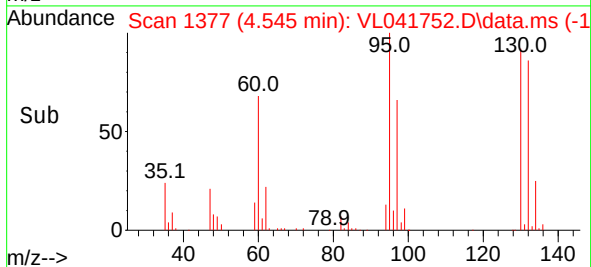
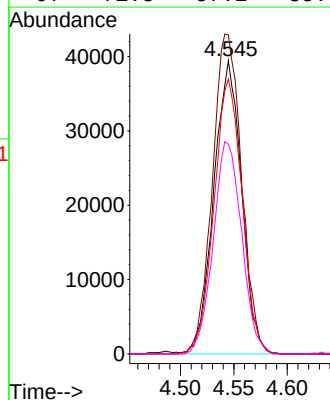
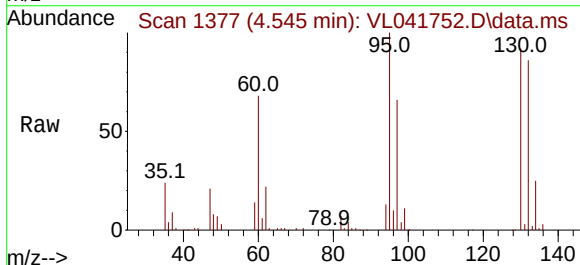
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

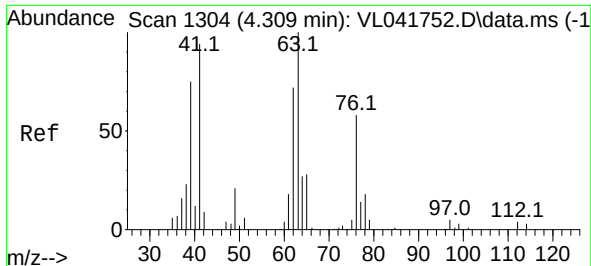
Tgt Ion: 62 Resp: 111770
Ion Ratio Lower Upper
62 100
98 5.9 4.7 7.1



#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

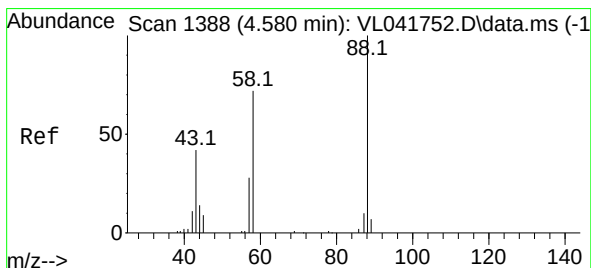
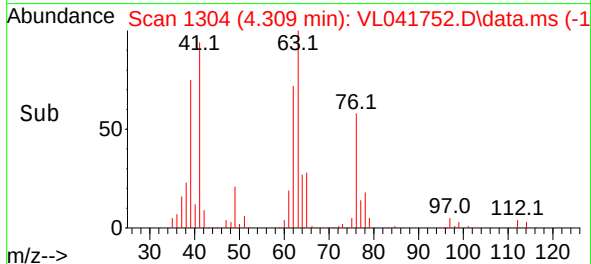
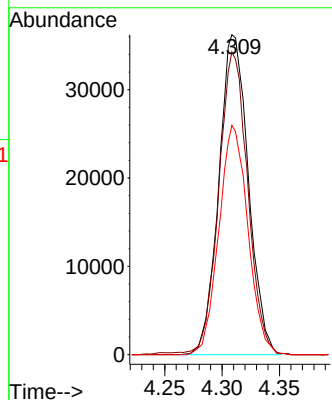
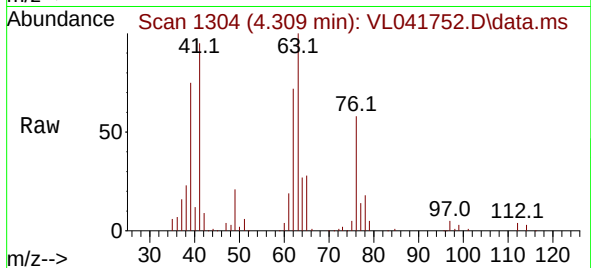
Tgt Ion: 63 Resp: 64789

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

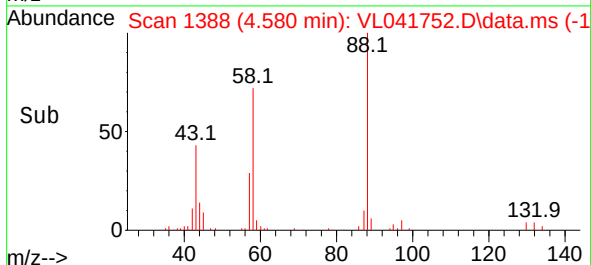
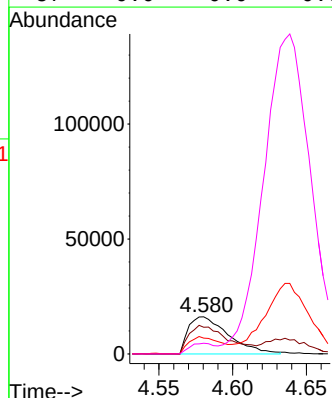
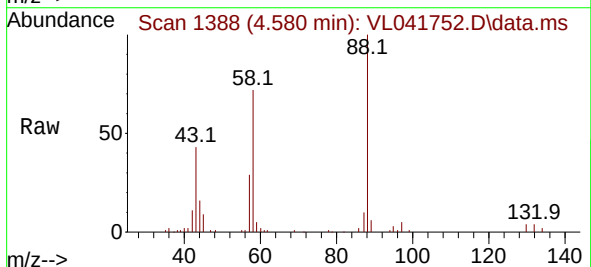
Ion Ratio Lower Upper

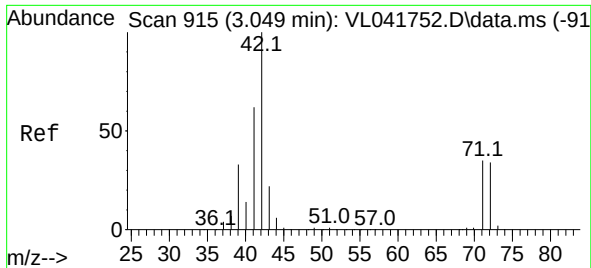
88 100

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

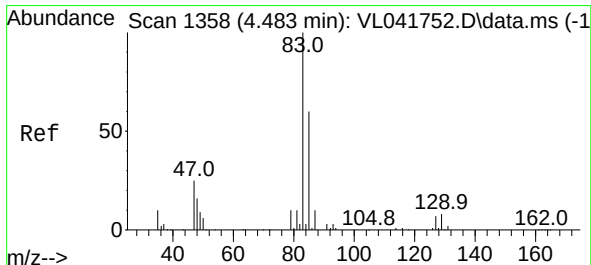
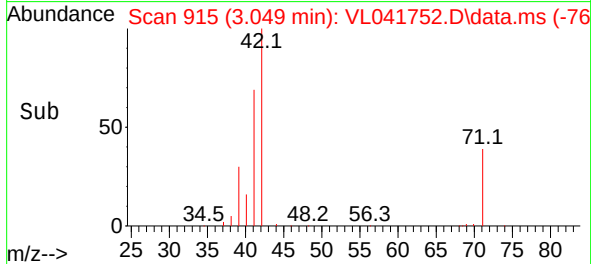
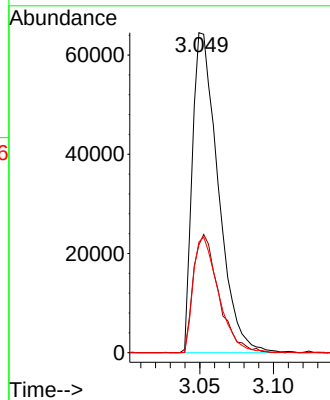
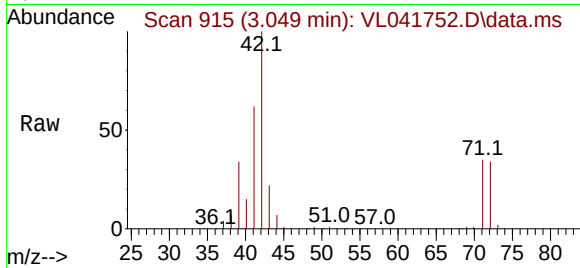
Tgt Ion: 42 Resp: 78480

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

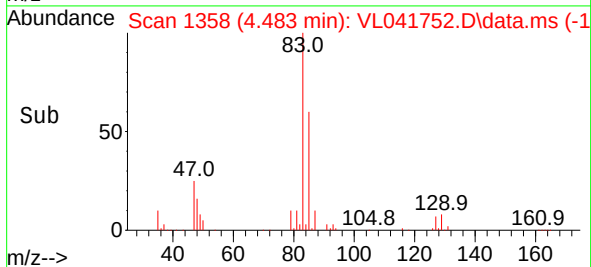
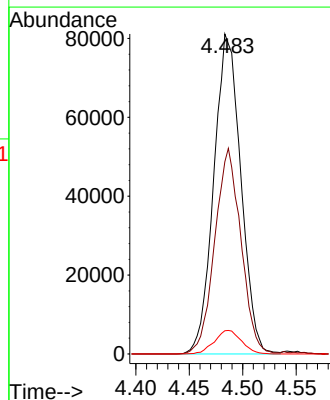
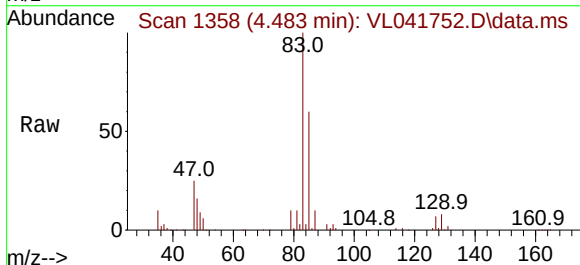
Tgt Ion: 83 Resp: 142819

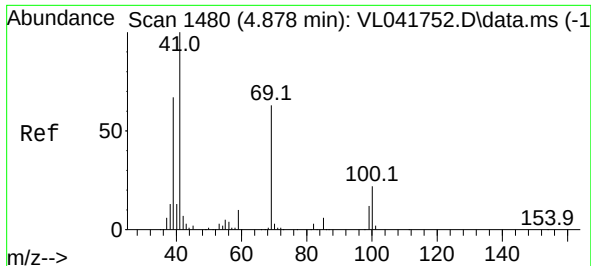
Ion Ratio Lower Upper

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

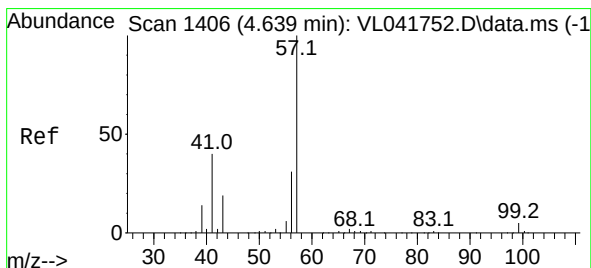
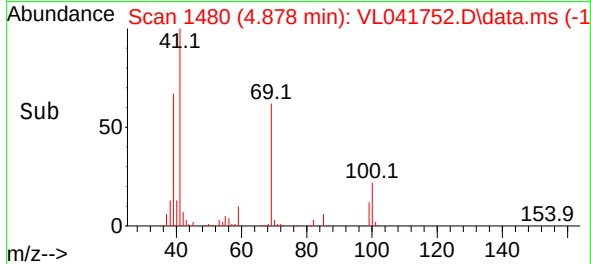
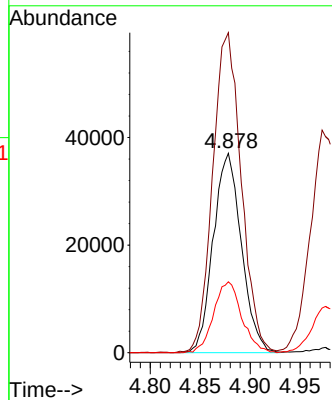
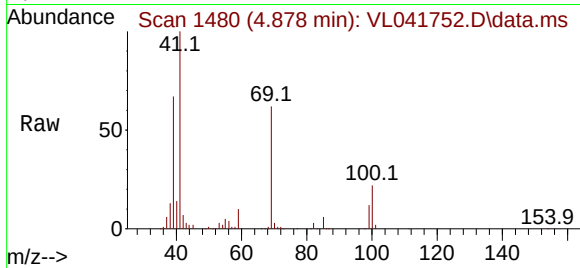
Tgt Ion: 69 Resp: 72578

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

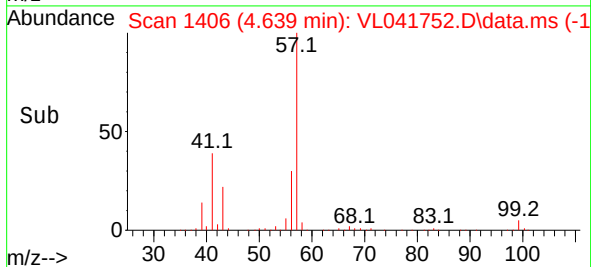
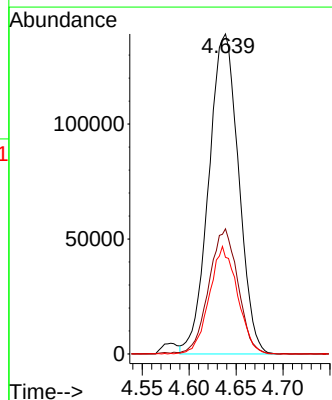
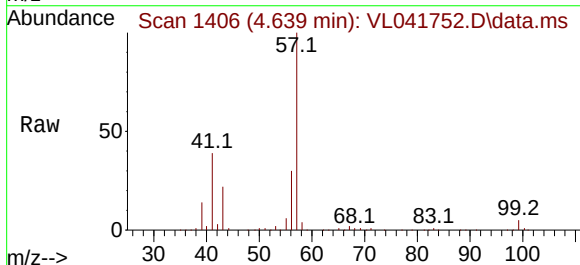
Tgt Ion: 57 Resp: 307748

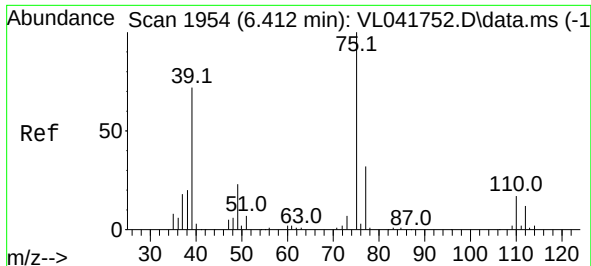
Ion Ratio Lower Upper

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 :

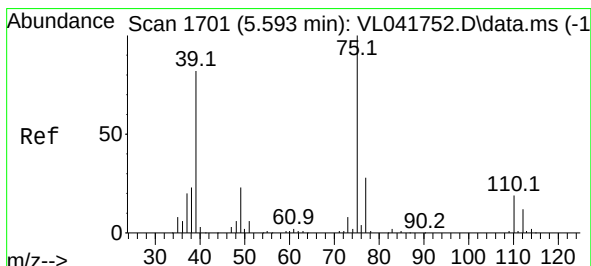
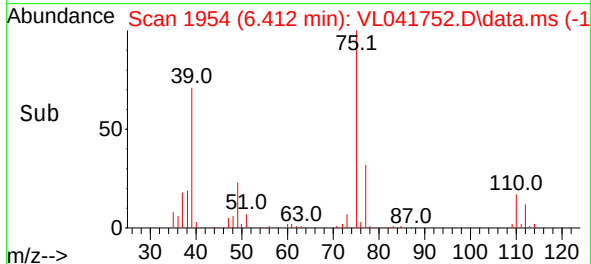
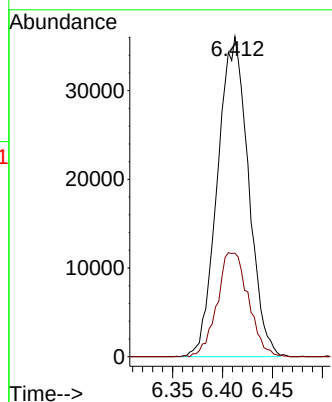
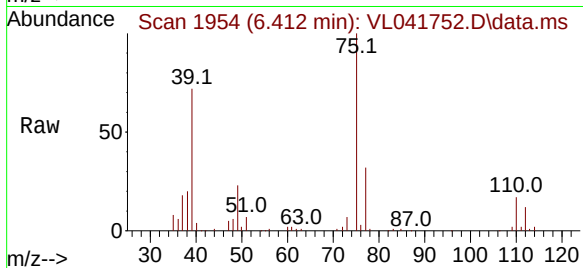
VSTDICCC010

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

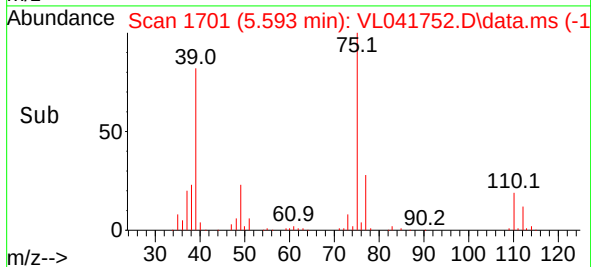
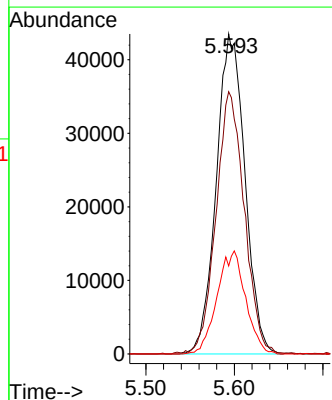
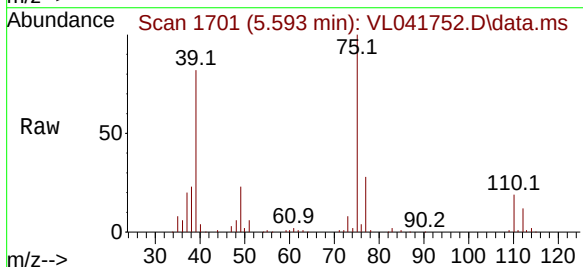
Tgt Ion: 75 Resp: 97992

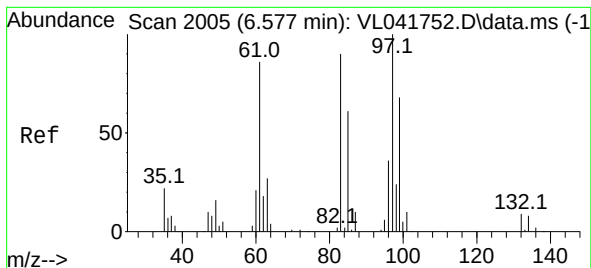
Ion Ratio Lower Upper

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

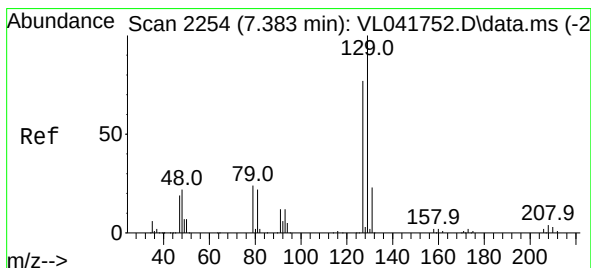
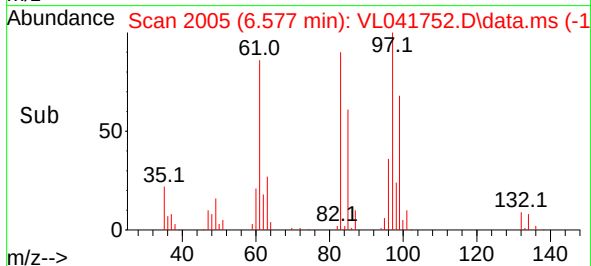
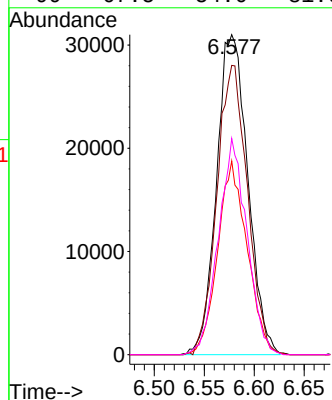
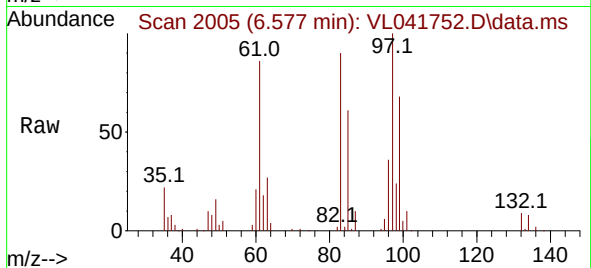
Ion Ratio Lower Upper

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

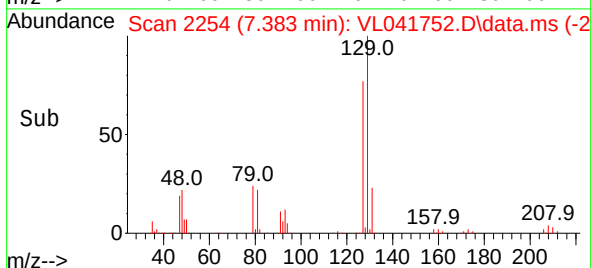
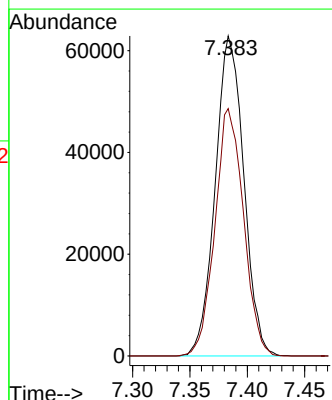
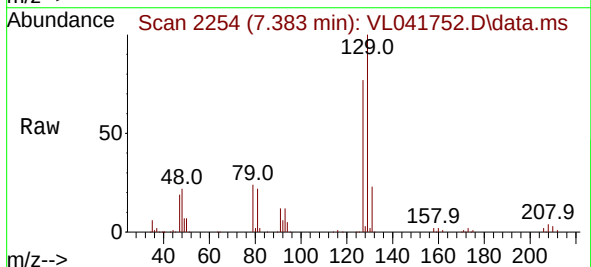
Acq: 16 Dec 2024 13:30

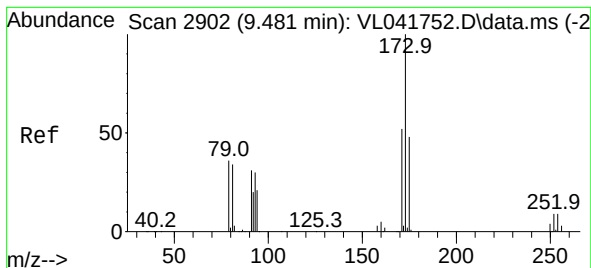
Tgt Ion: 129 Resp: 108899

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

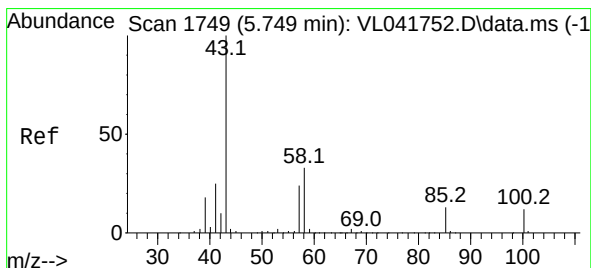
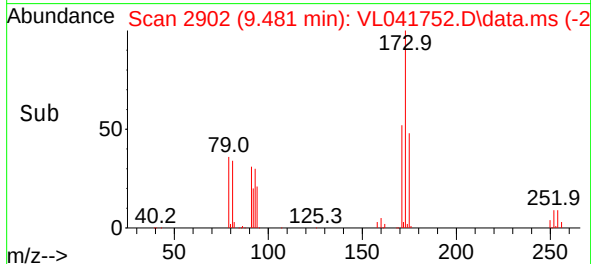
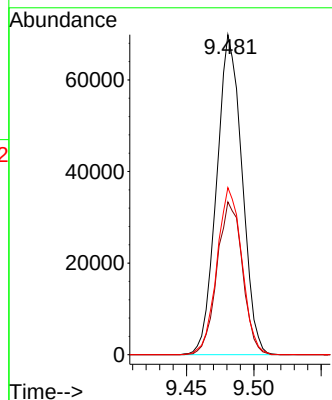
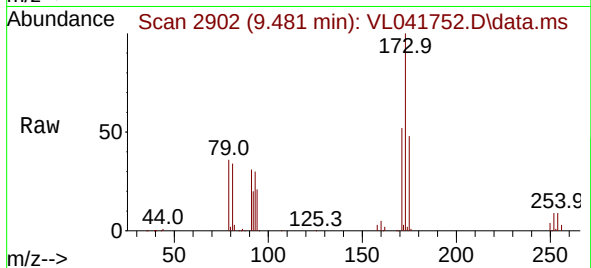
Tgt Ion:173 Resp: 91587

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

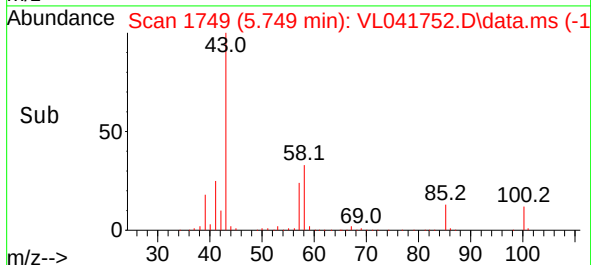
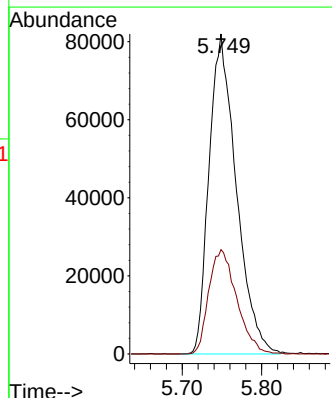
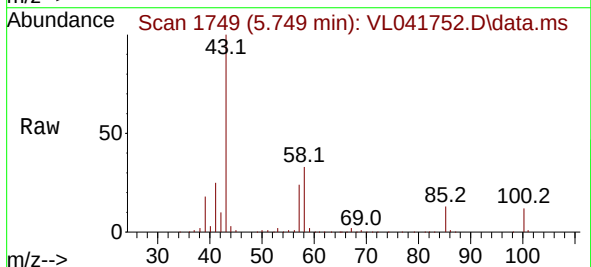
Acq: 16 Dec 2024 13:30

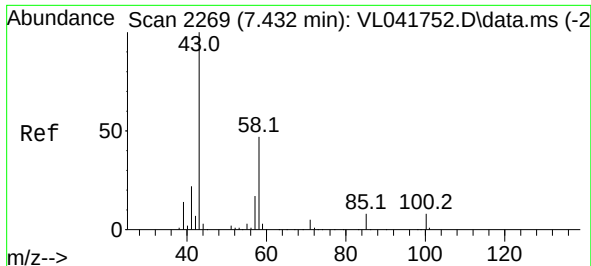
Tgt Ion: 43 Resp: 194838

Ion Ratio Lower Upper

43 100

58 33.5 26.8 40.2

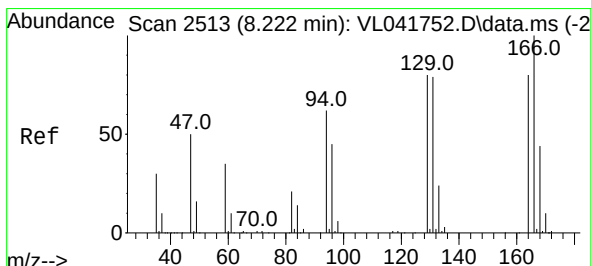
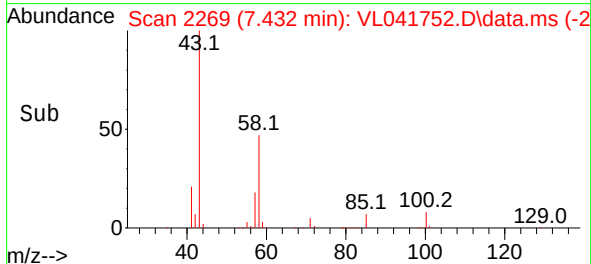
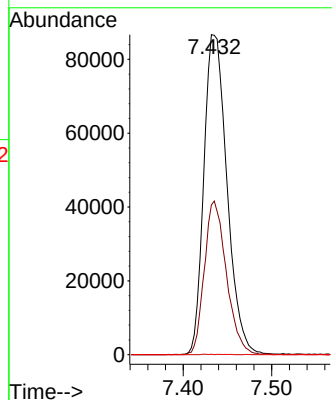
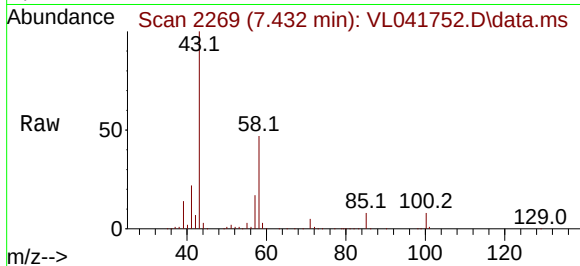




#51
2-Hexanone
Concen: 9.650 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

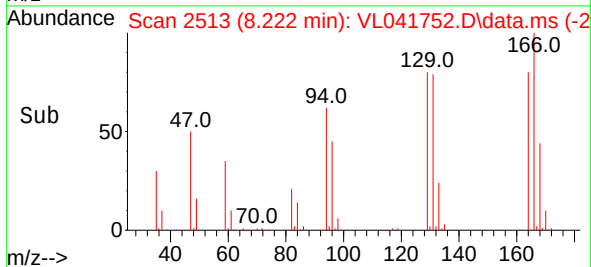
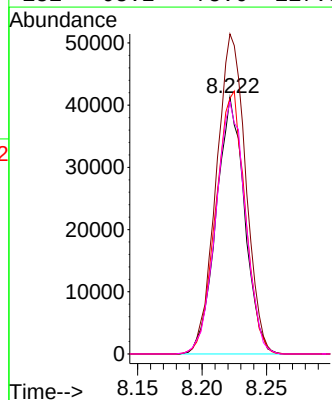
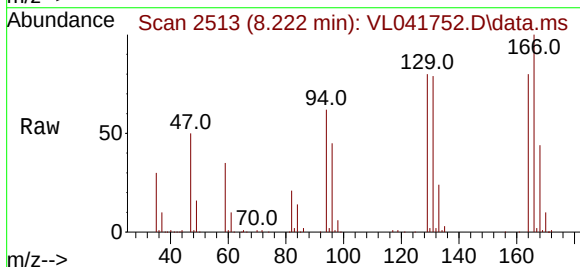
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

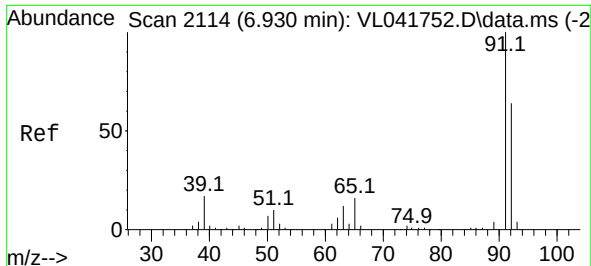
Tgt Ion: 43 Resp: 157473
Ion Ratio Lower Upper
43 100
58 45.8 36.6 55.0
98 0.1 0.1 0.1



#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 :

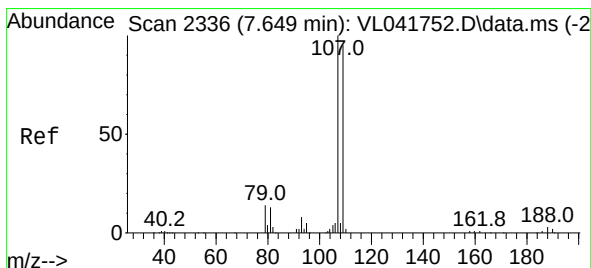
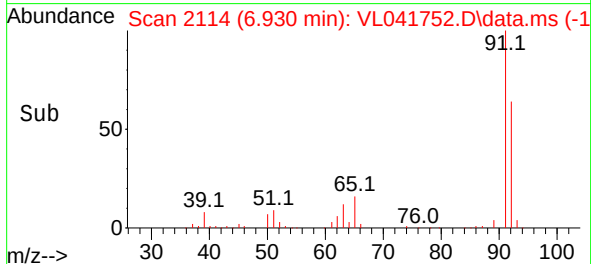
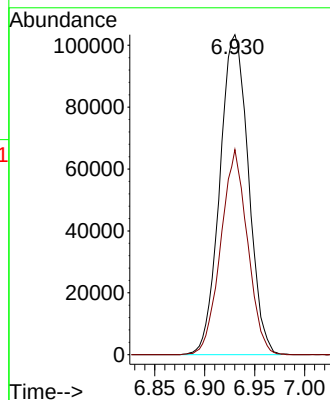
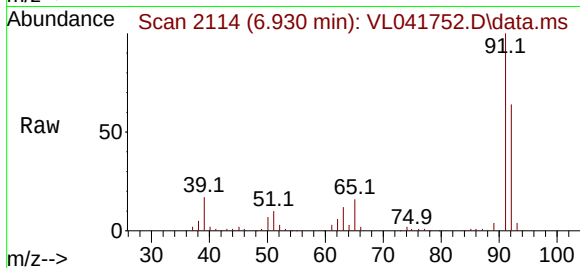
VSTDICCC010

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

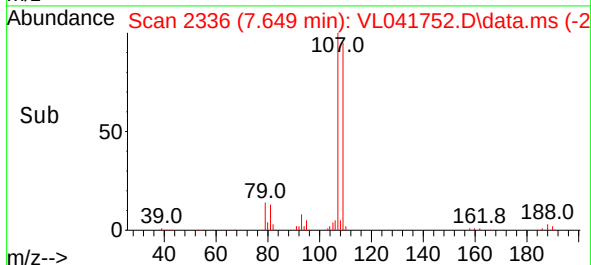
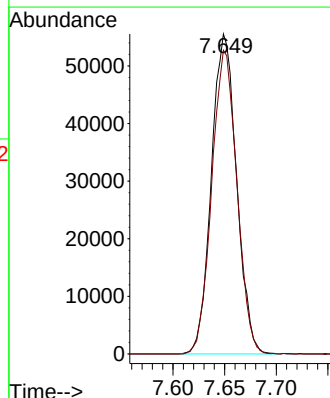
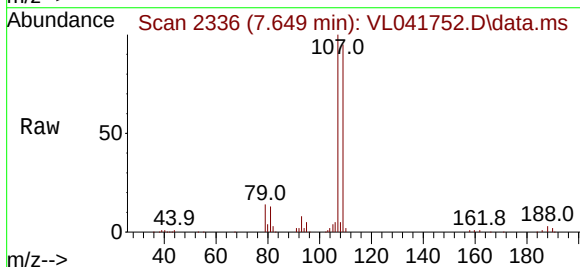
Acq: 16 Dec 2024 13:30

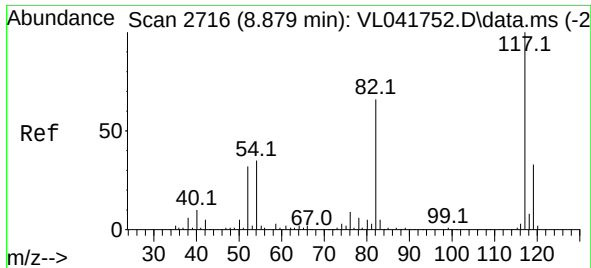
Tgt Ion:107 Resp: 94016

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

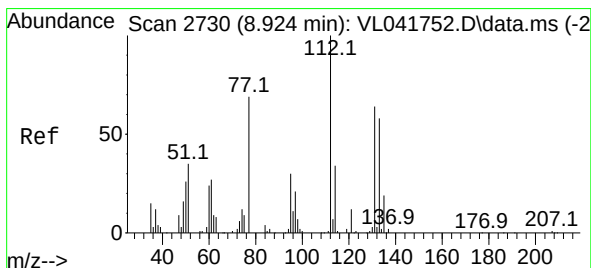
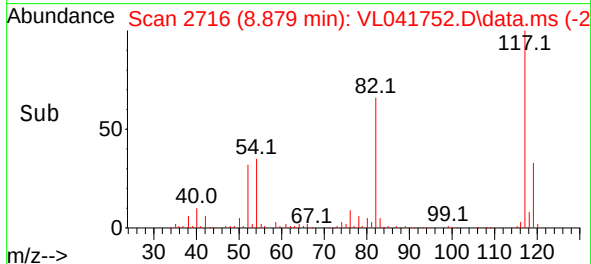
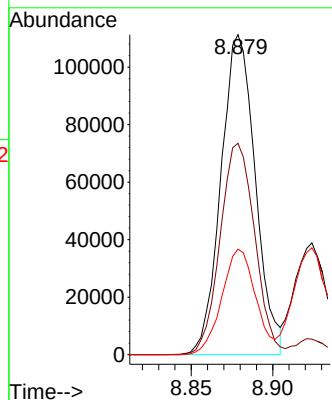
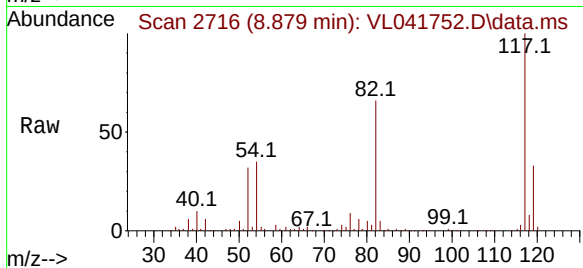
Tgt Ion:117 Resp: 163333

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

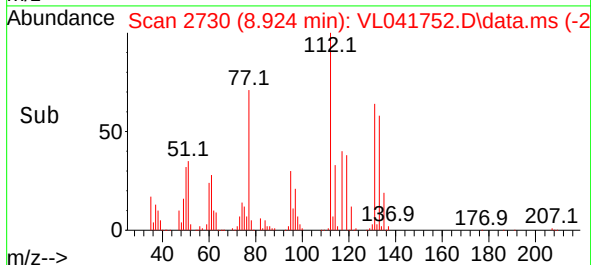
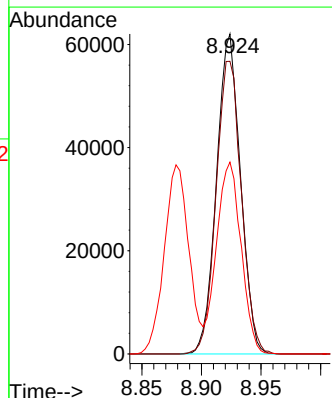
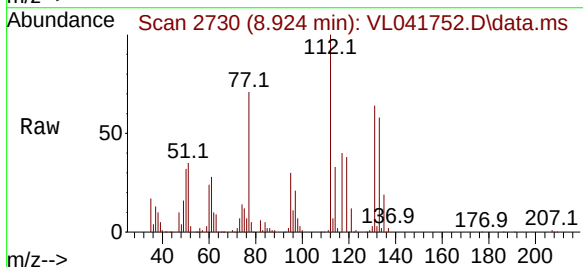
Tgt Ion:131 Resp: 86831

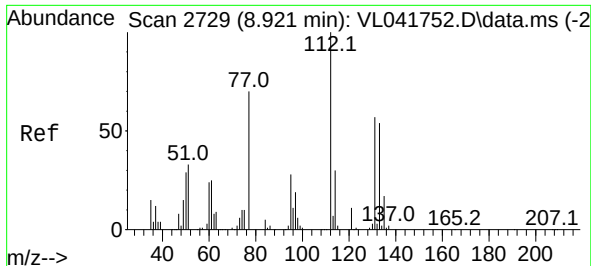
Ion Ratio Lower Upper

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

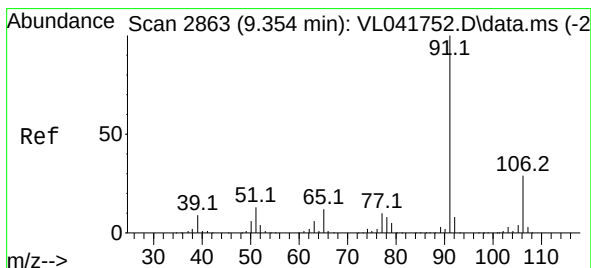
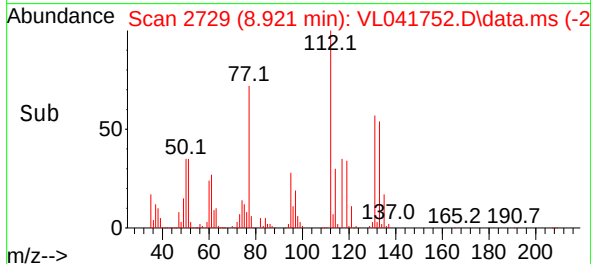
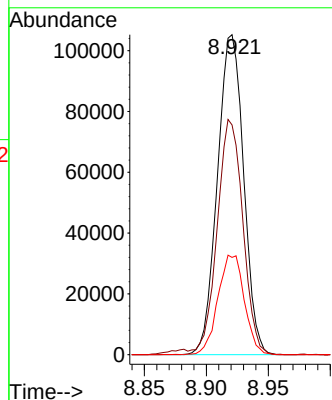
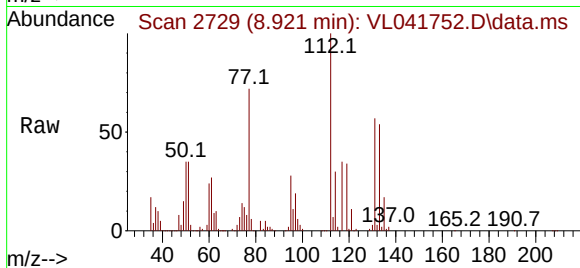
Tgt Ion:112 Resp: 155349

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

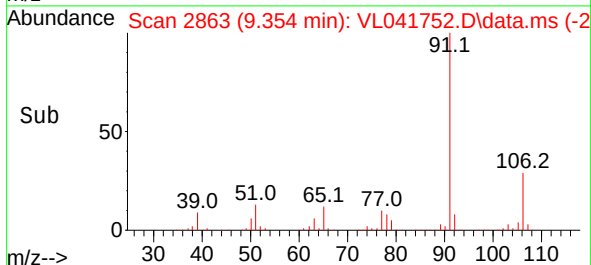
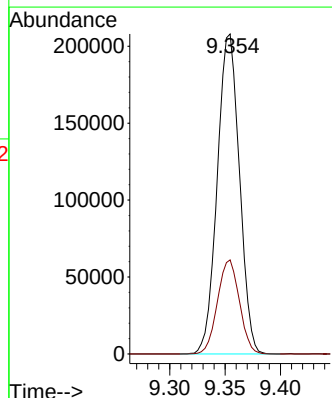
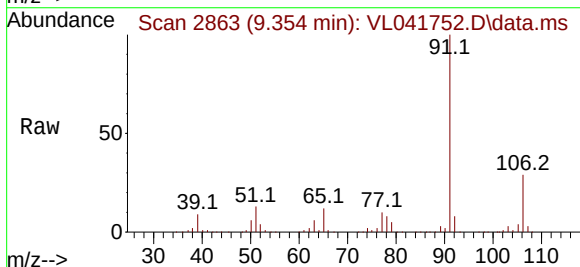
Acq: 16 Dec 2024 13:30

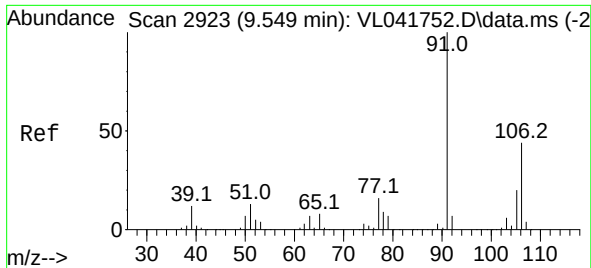
Tgt Ion: 91 Resp: 289734

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 :

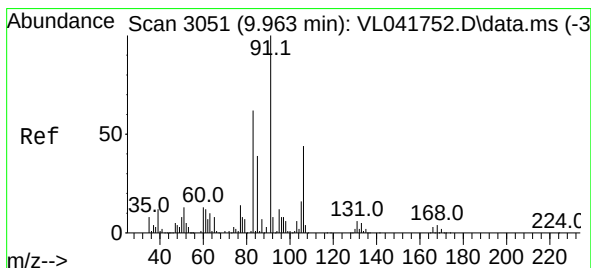
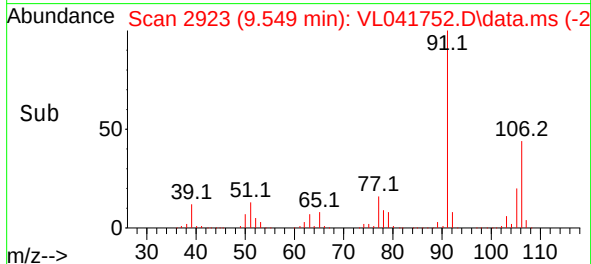
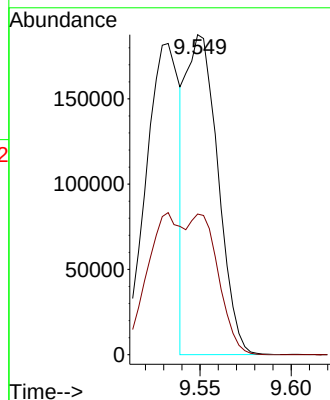
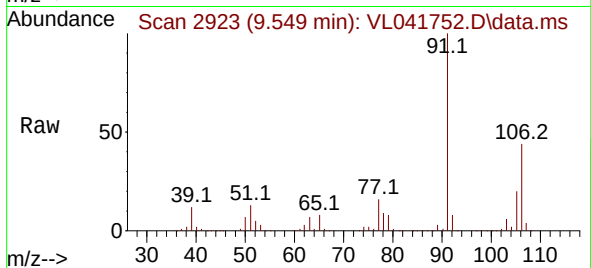
VSTDICCC010

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

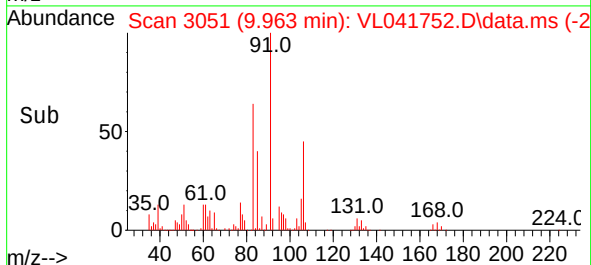
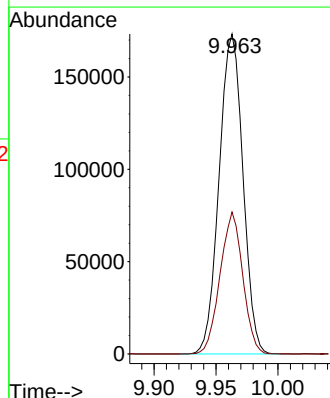
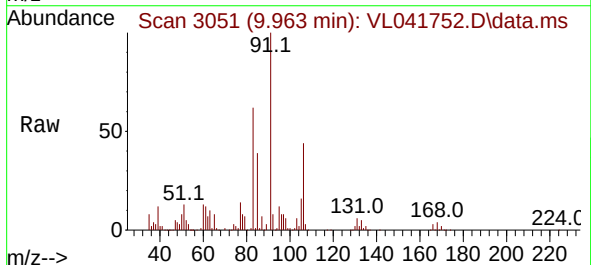
Acq: 16 Dec 2024 13:30

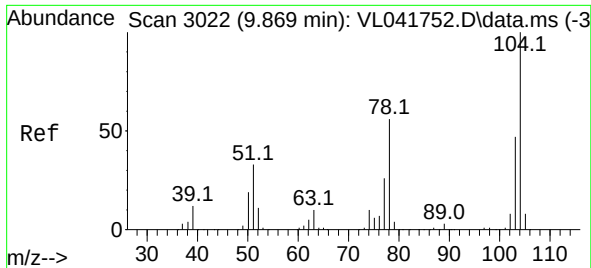
Tgt Ion: 91 Resp: 232101

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4

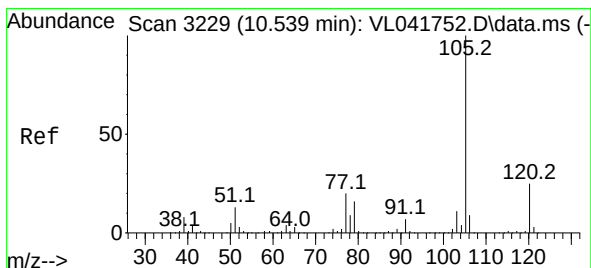
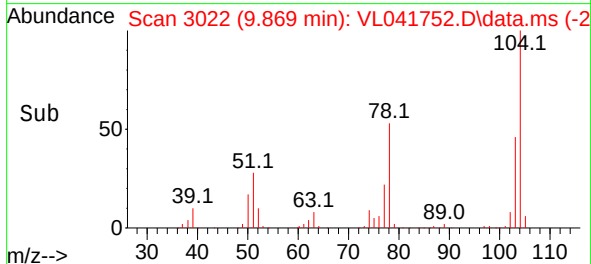
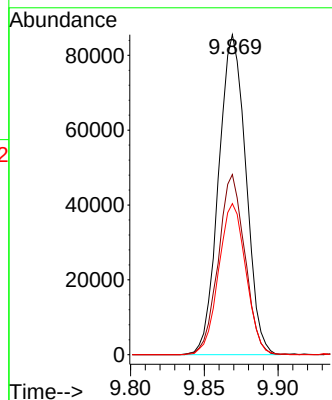
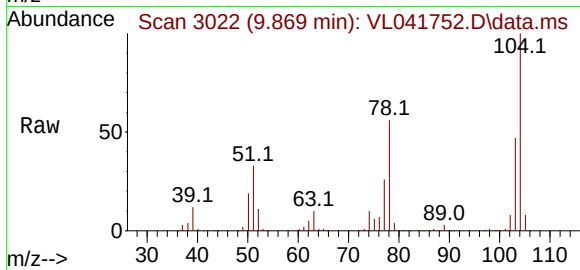




#61
Styrene
Concen: 10.733 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

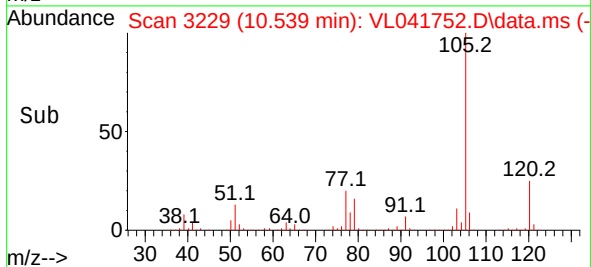
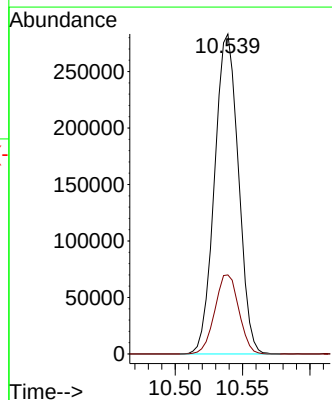
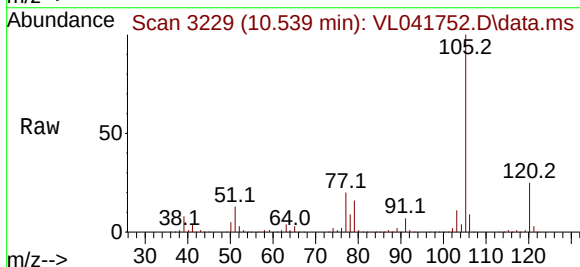
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

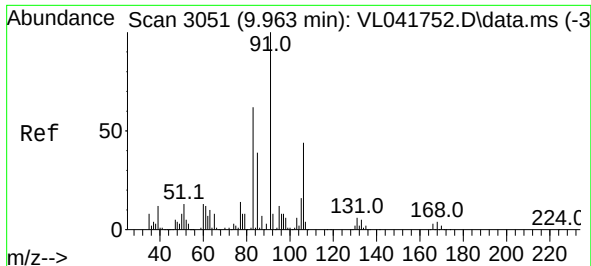
Tgt Ion:104 Resp: 110041
Ion Ratio Lower Upper
104 100
78 54.7 43.8 65.6
103 47.2 37.8 56.6



#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

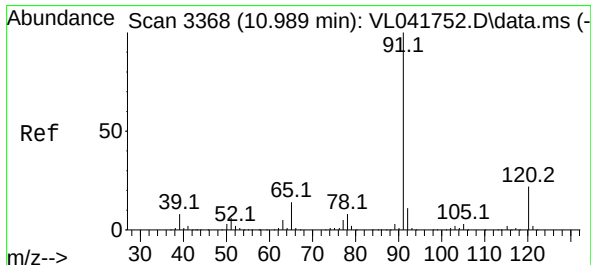
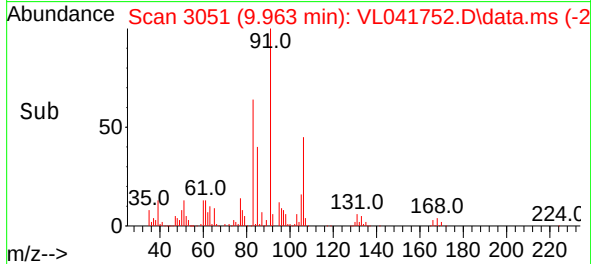
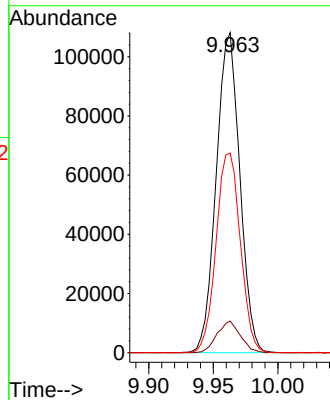
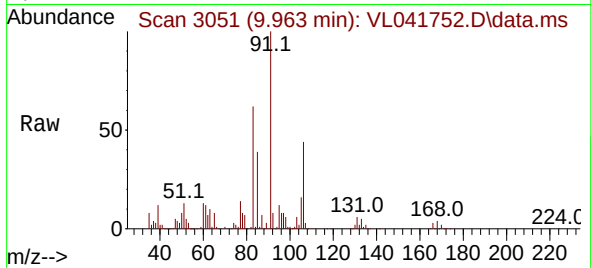
Tgt Ion: 83 Resp: 137363

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

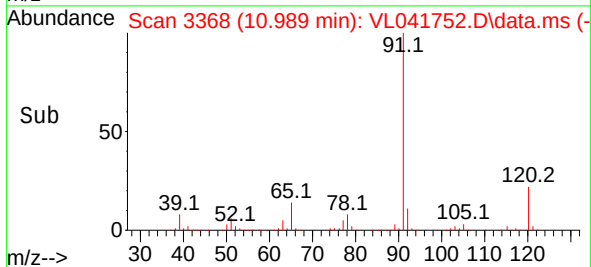
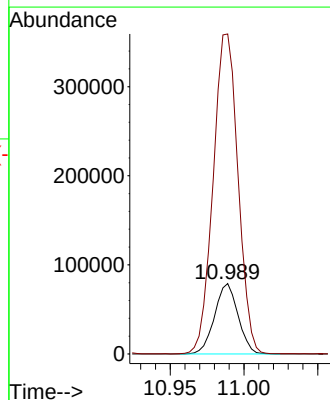
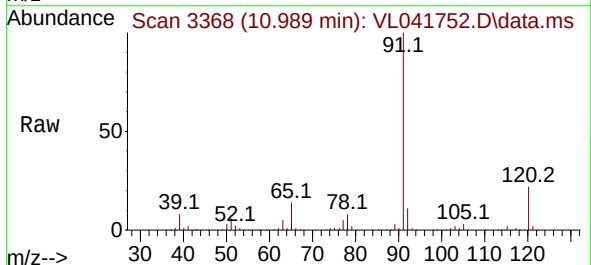
Acq: 16 Dec 2024 13:30

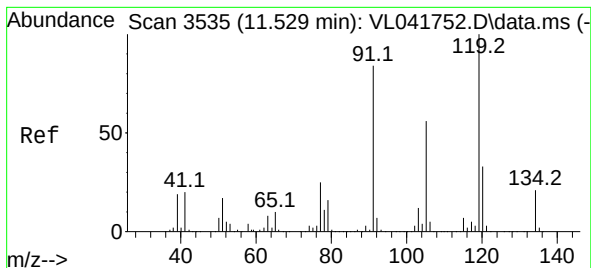
Tgt Ion: 120 Resp: 87360

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_1

ClientSampleId :

VSTDICCC010

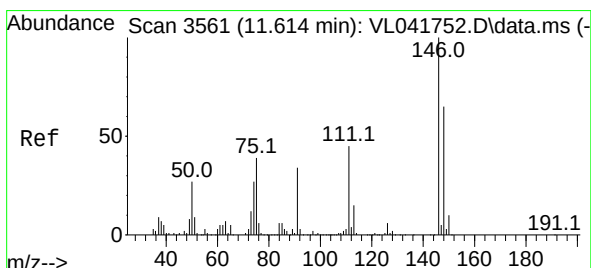
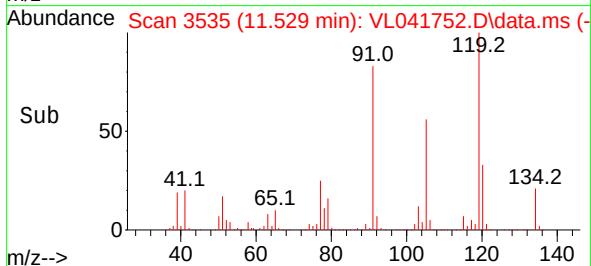
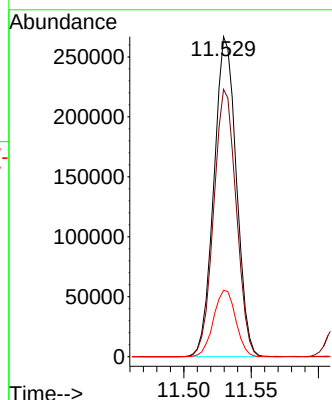
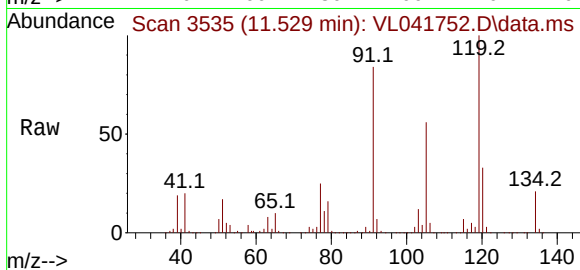
Tgt Ion:119 Resp: 309036

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

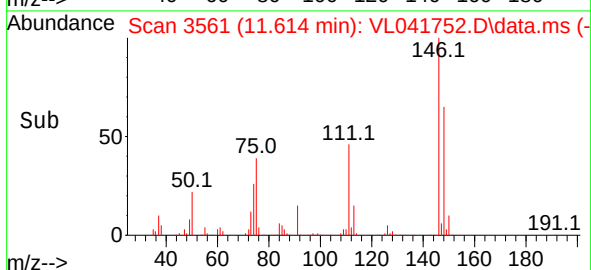
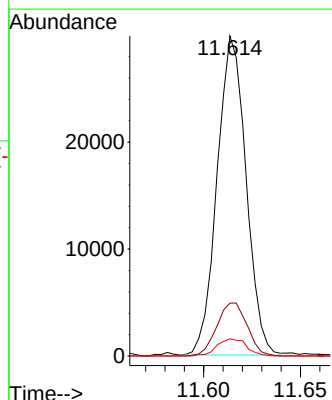
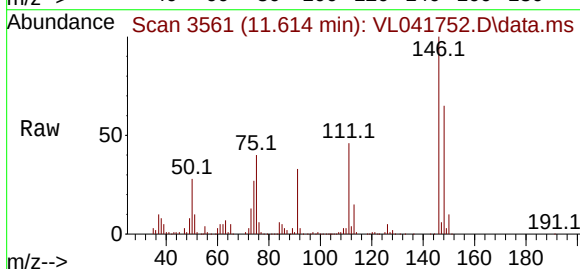
Tgt Ion: 91 Resp: 31039

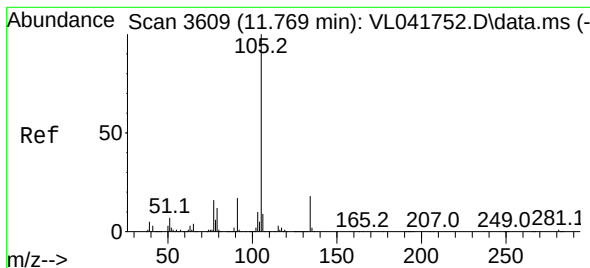
Ion Ratio Lower Upper

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 :

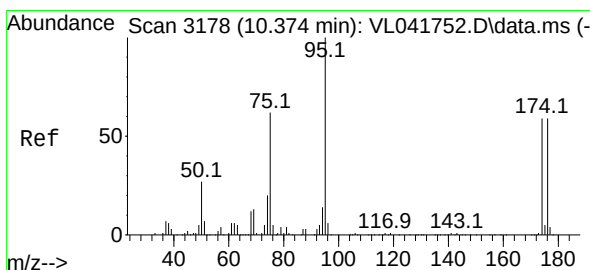
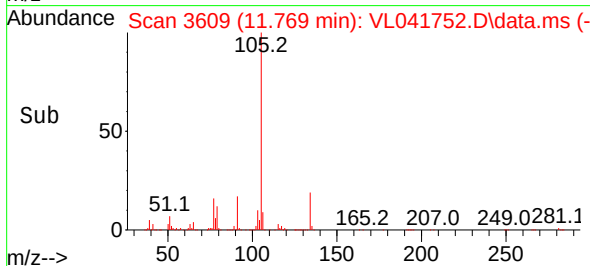
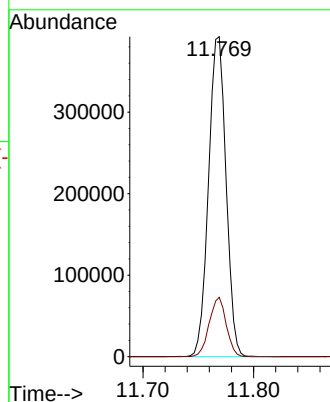
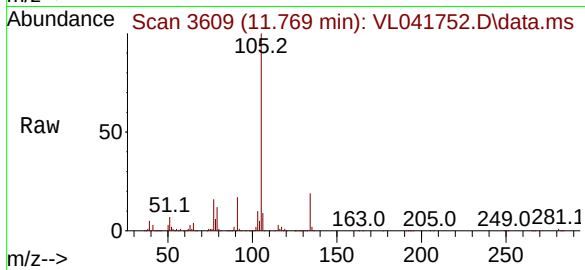
VSTDICCC010

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

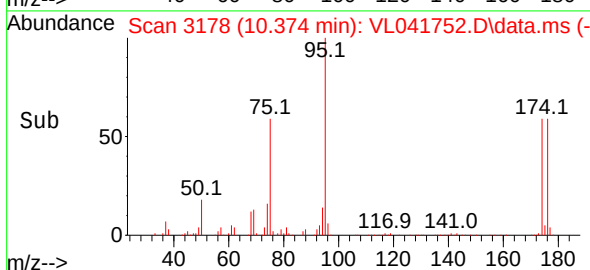
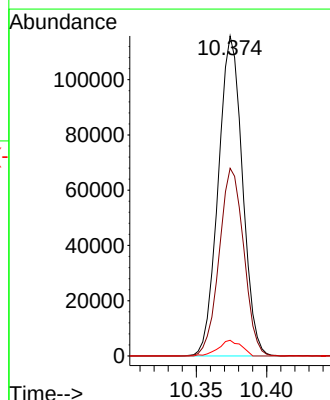
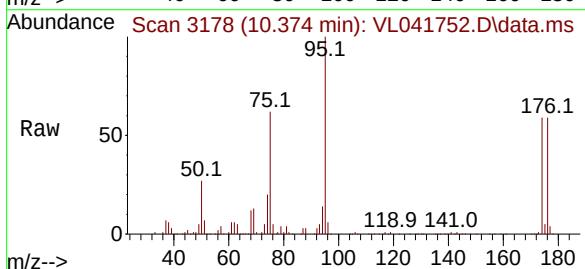
Tgt Ion: 95 Resp: 138451

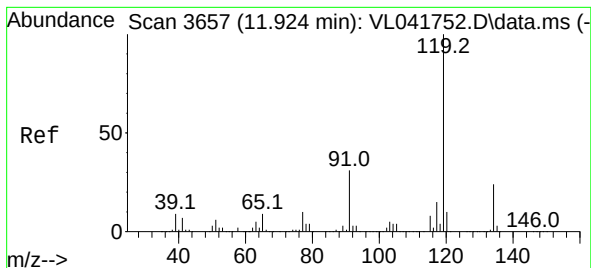
Ion Ratio Lower Upper

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

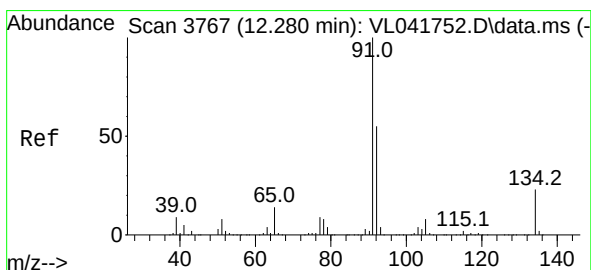
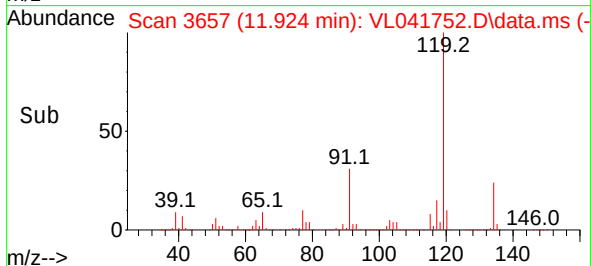
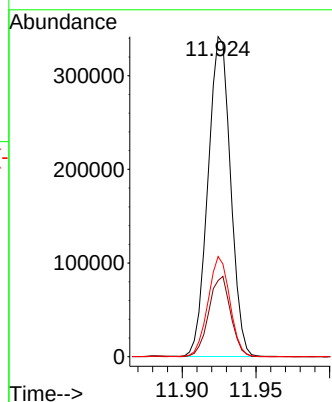
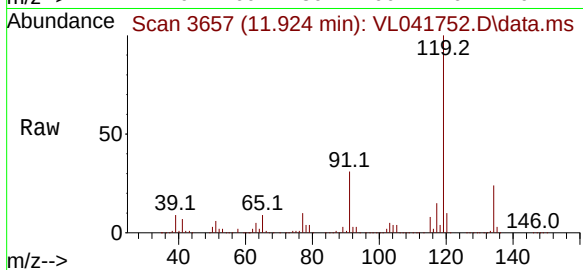
Tgt Ion:119 Resp: 363072

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

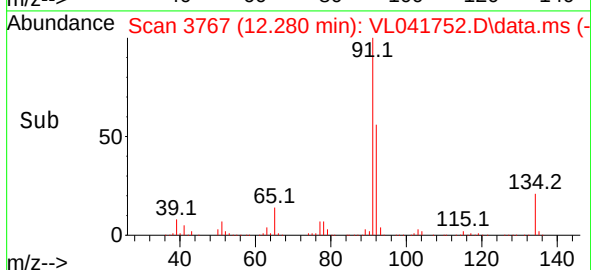
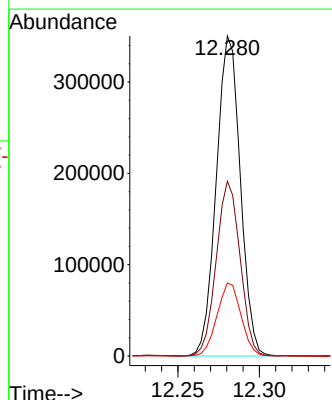
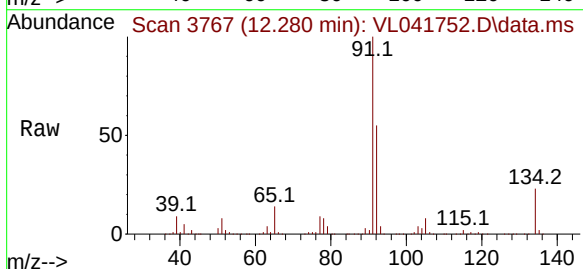
Tgt Ion: 91 Resp: 358993

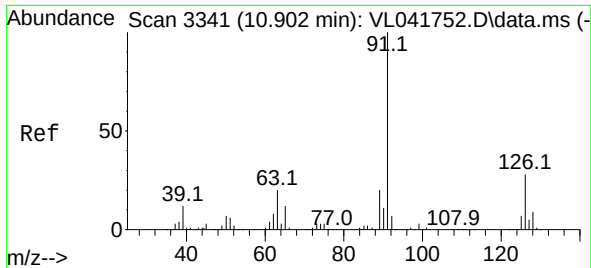
Ion Ratio Lower Upper

91 100

92 54.0 43.2 64.8

134 22.8 18.2 27.4

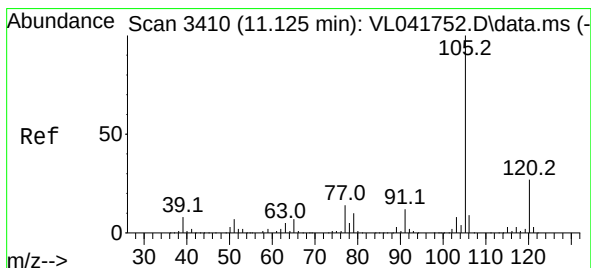
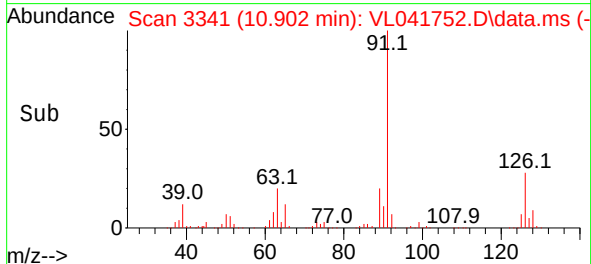
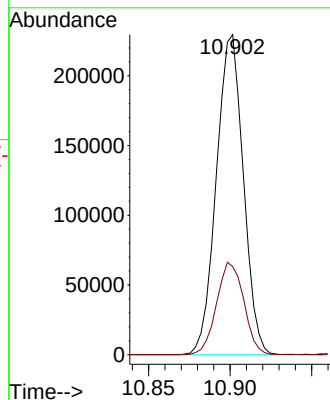
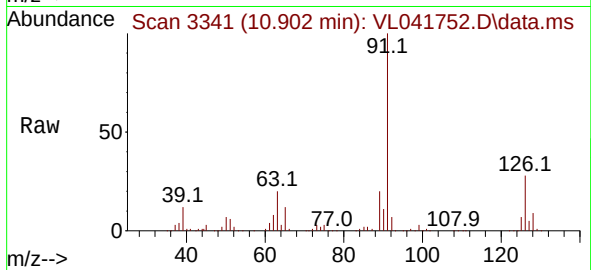




#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

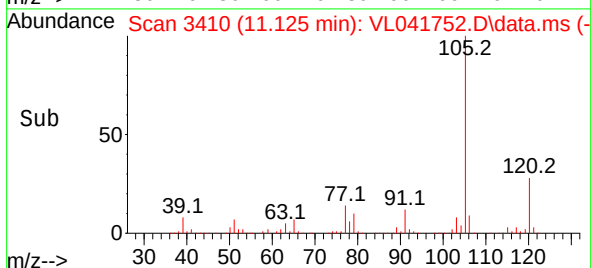
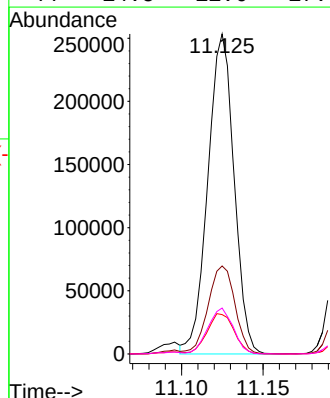
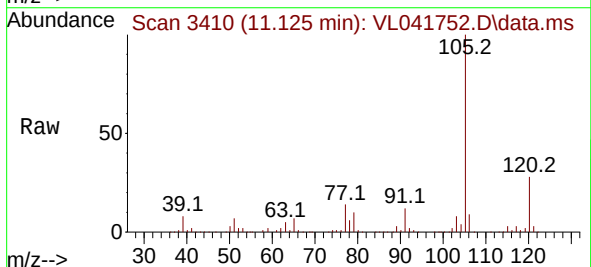
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

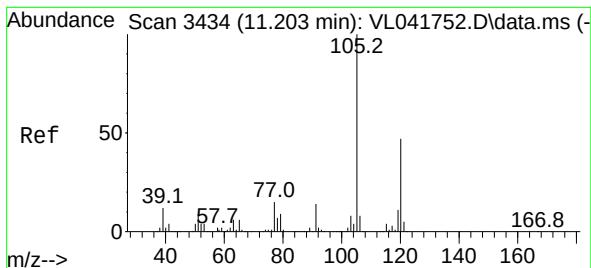
Tgt Ion: 91 Resp: 264002
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#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 :

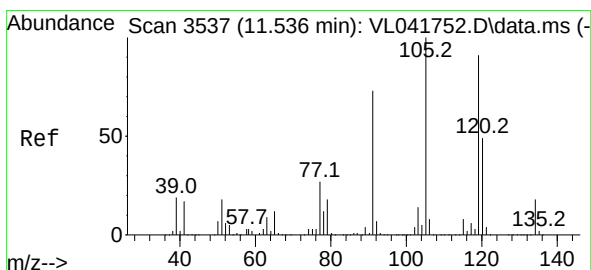
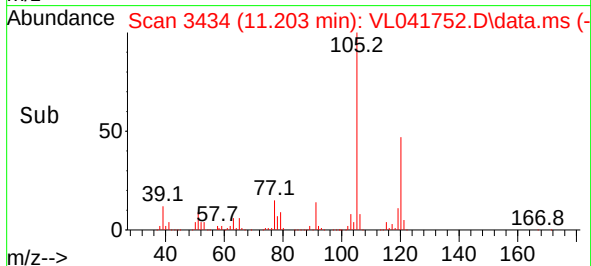
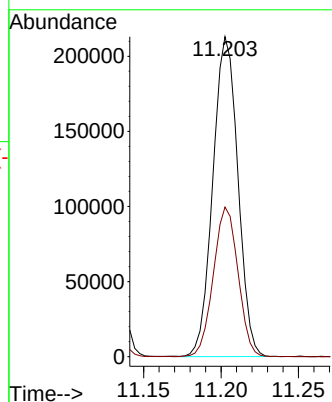
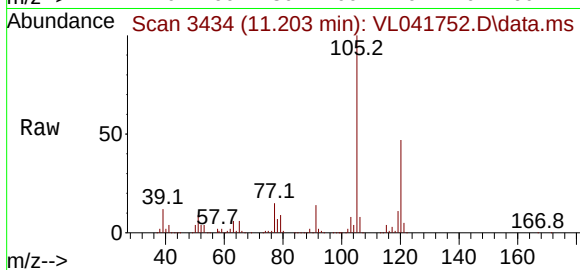
VSTDICCC010

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

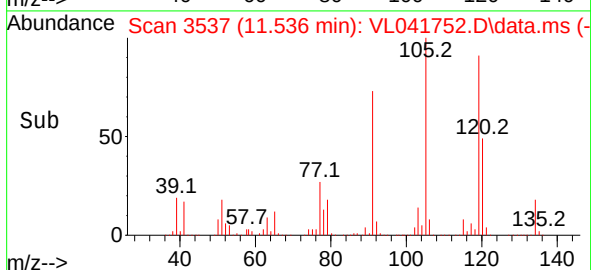
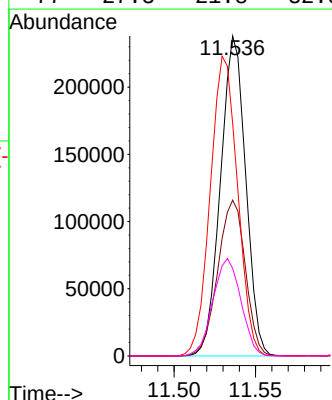
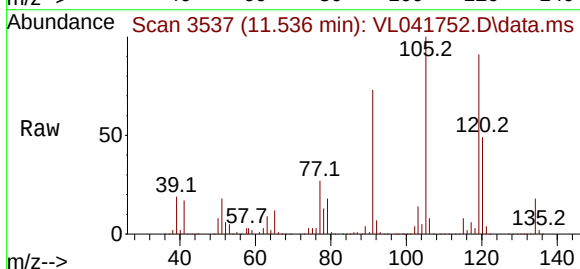
Ion Ratio Lower Upper

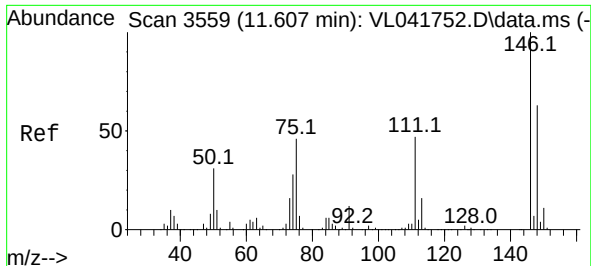
105 100

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

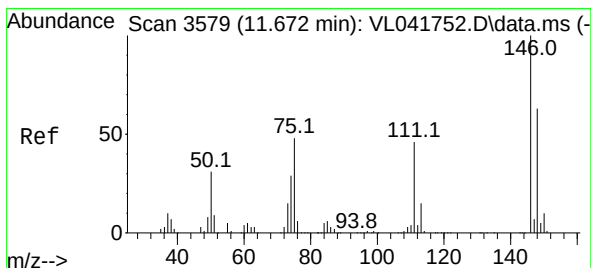
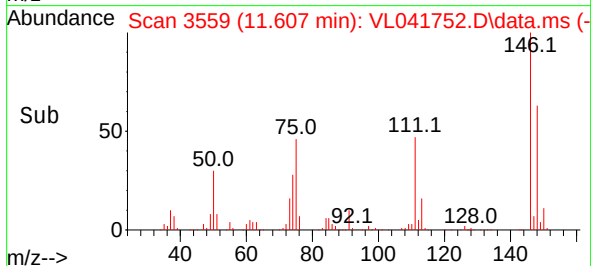
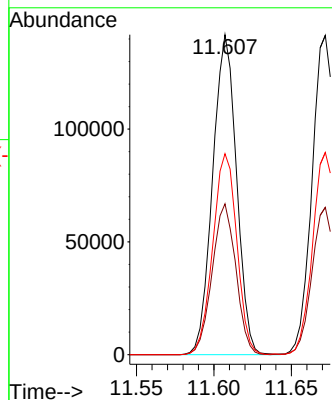
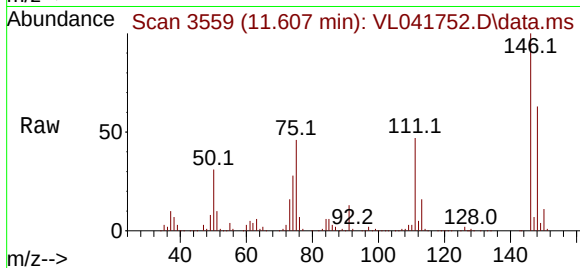
Tgt Ion:146 Resp: 151752

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

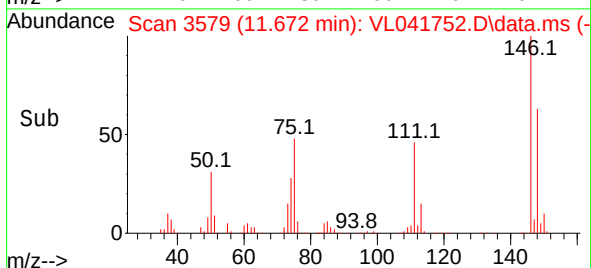
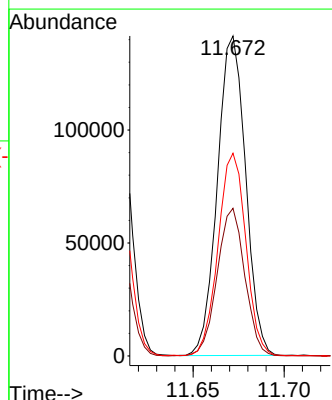
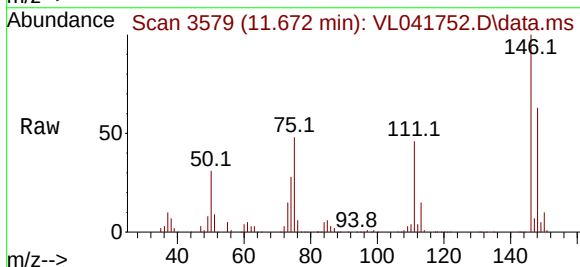
Tgt Ion:146 Resp: 152099

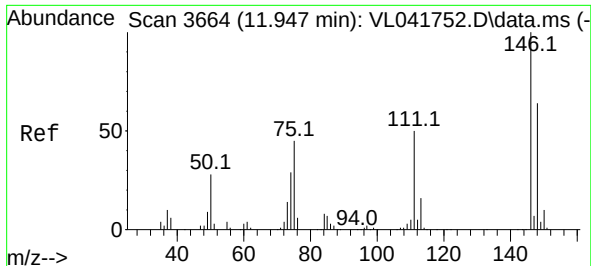
Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

148 62.7 31.4 94.0

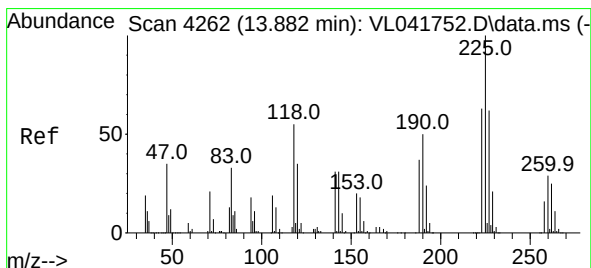
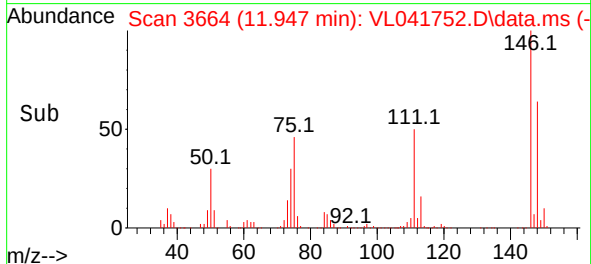
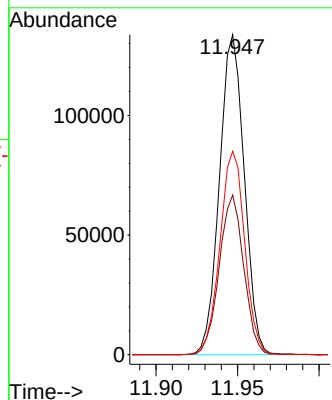
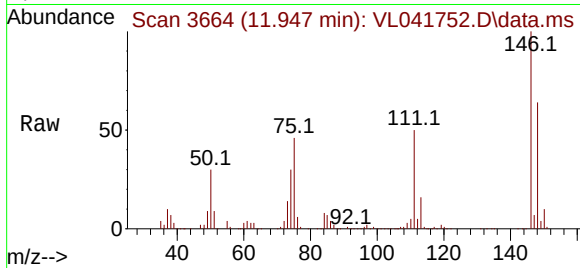




#77
1,2-Dichlorobenzene
Concen: 9.227 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL041752.D
Acq: 16 Dec 2024 13:30

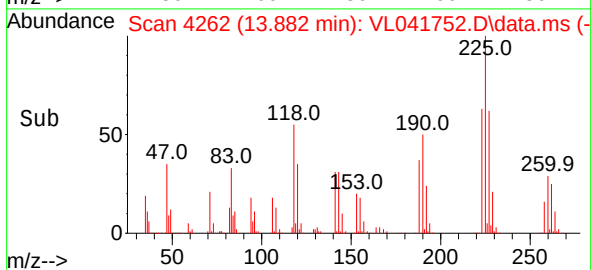
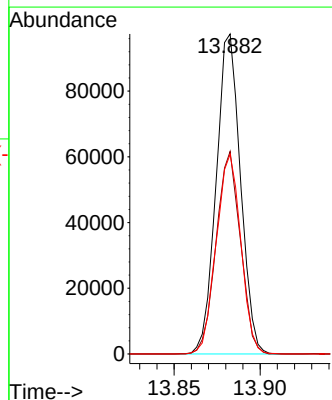
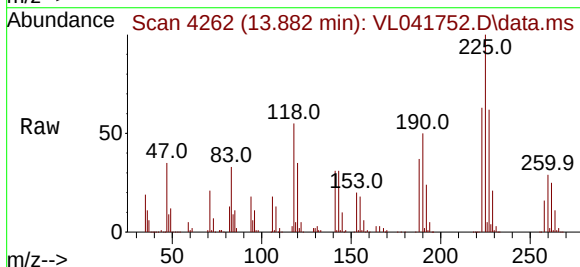
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

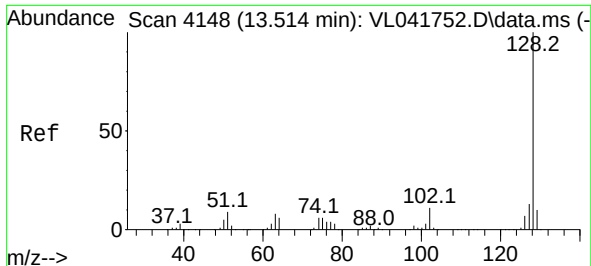
Tgt Ion:146 Resp: 141338
Ion Ratio Lower Upper
146 100
111 49.5 24.8 74.3
148 63.6 31.8 95.4



#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_1

ClientSampleId :

VSTDICCC010

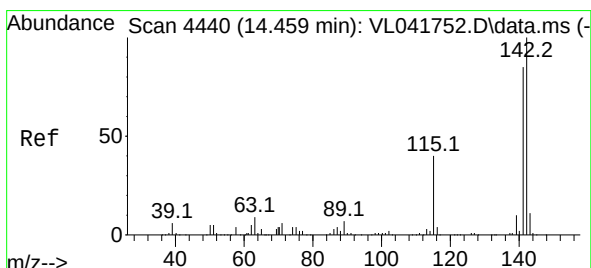
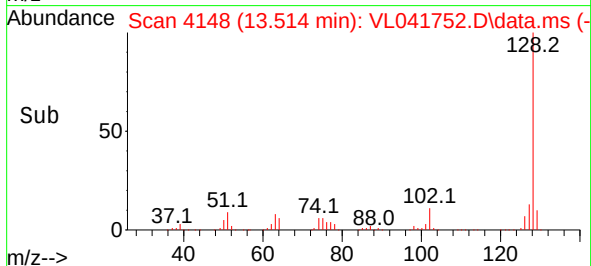
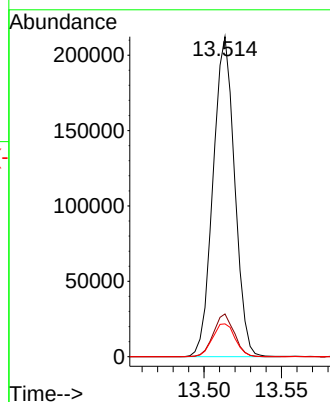
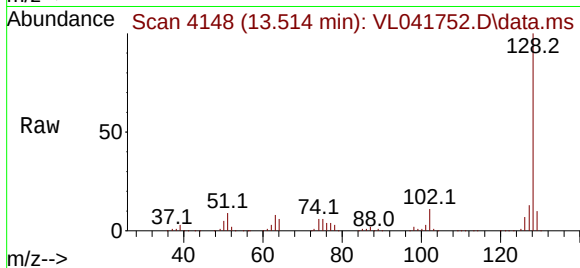
Tgt Ion:128 Resp: 205511

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

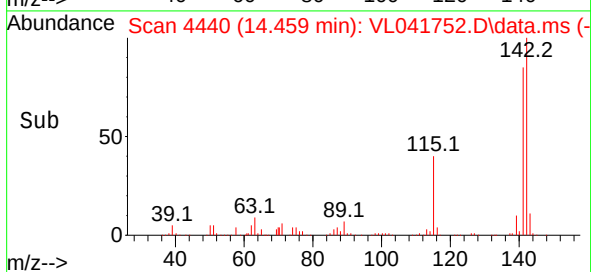
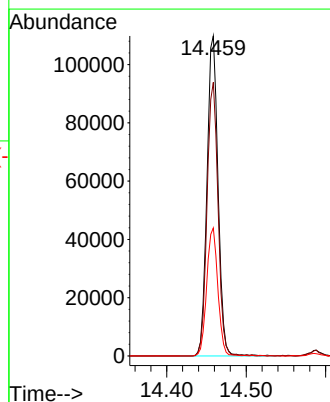
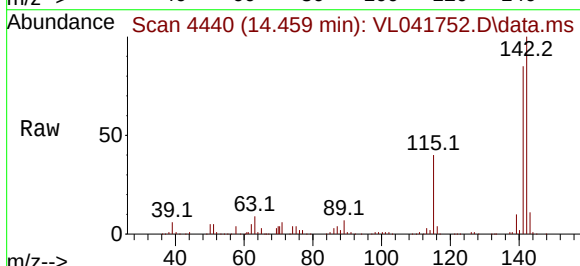
Tgt Ion:142 Resp: 106311

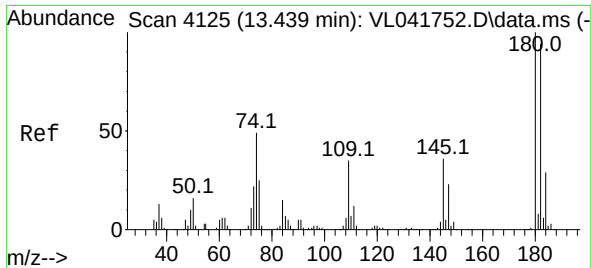
Ion Ratio Lower Upper

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

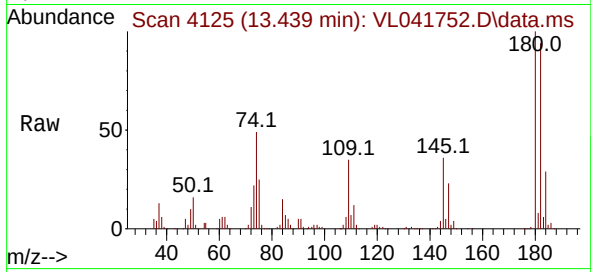
Acq: 16 Dec 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



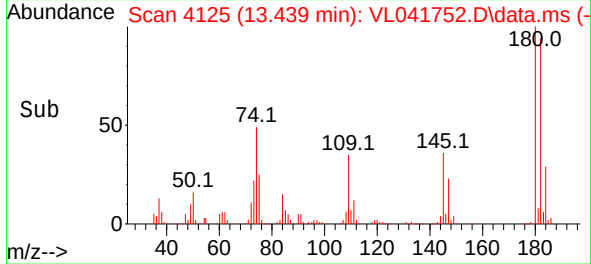
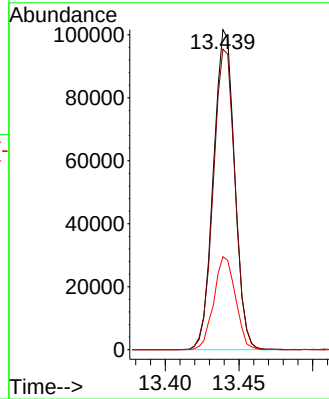
Tgt Ion:180 Resp: 101461

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

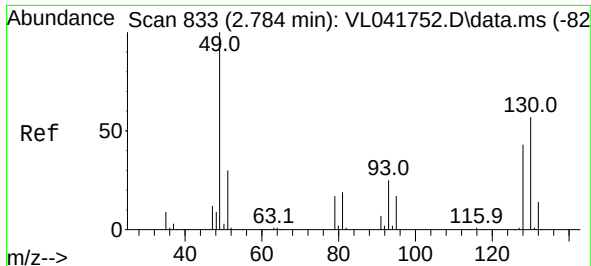
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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)
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

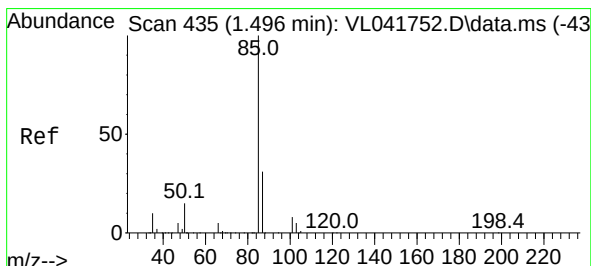
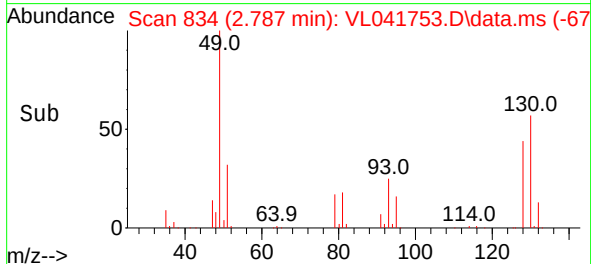
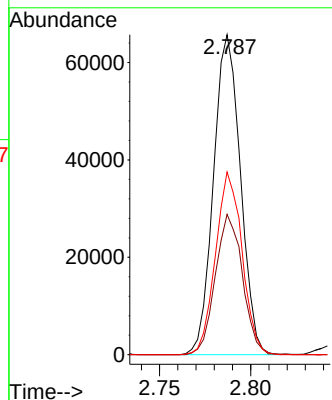
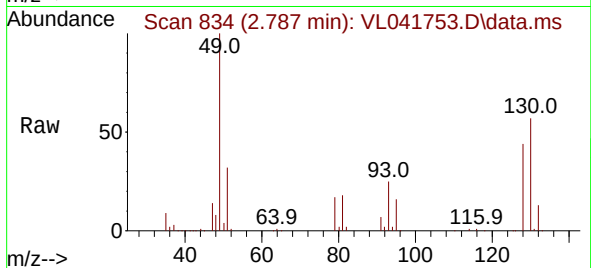
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

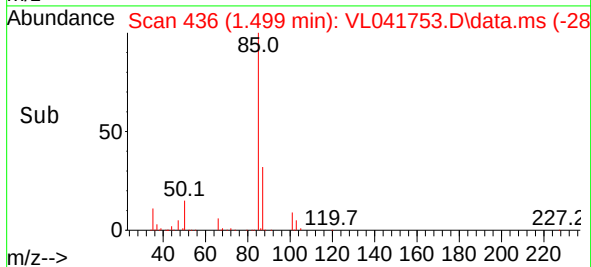
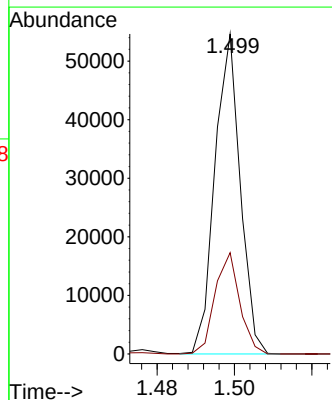
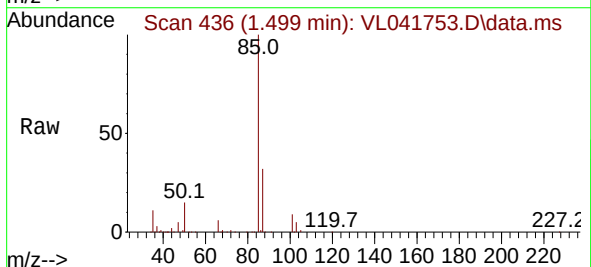
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

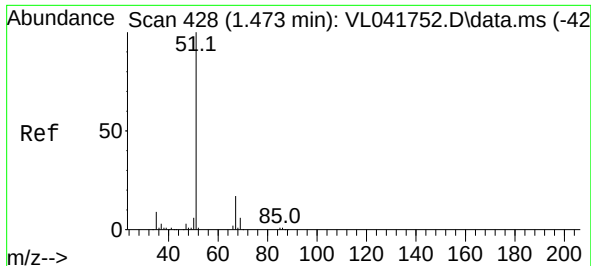
Tgt Ion: 49 Resp: 67443
Ion Ratio Lower Upper
49 100
128 44.1 21.6 64.6
130 56.3 28.3 85.0



#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

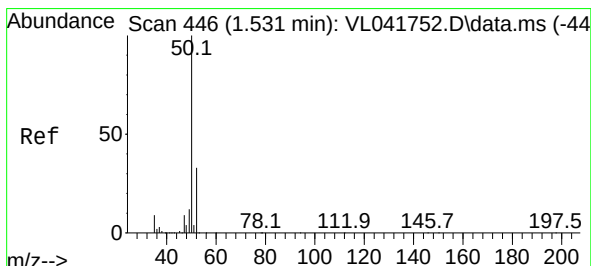
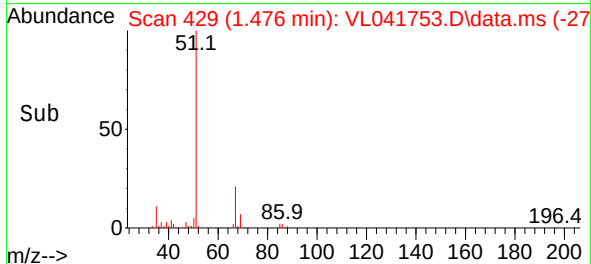
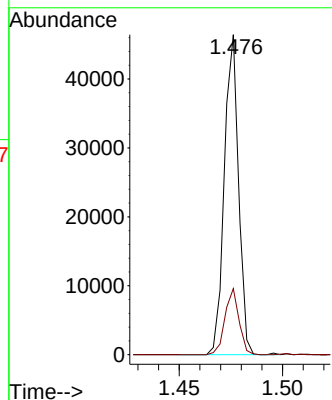
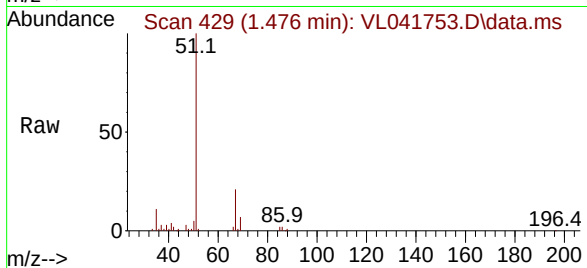




#3
Chlorodifluoromethane
Concen: 2.027 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

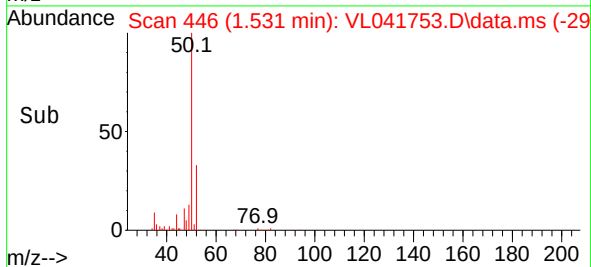
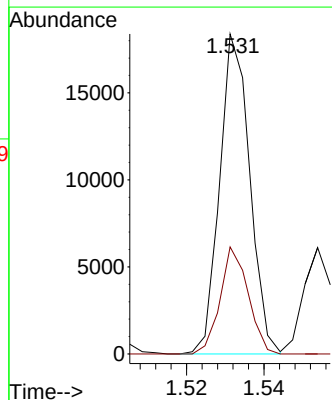
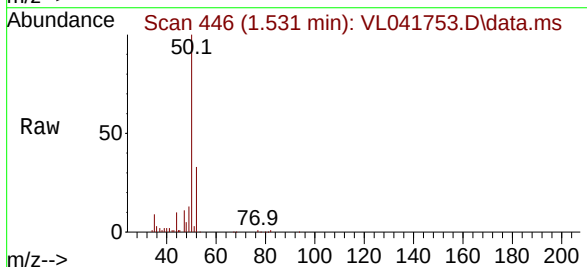
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

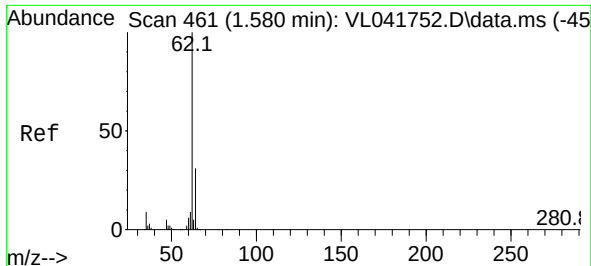
Tgt Ion: 51 Resp: 22299
Ion Ratio Lower Upper
51 100
67 20.5 15.0 22.4



#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

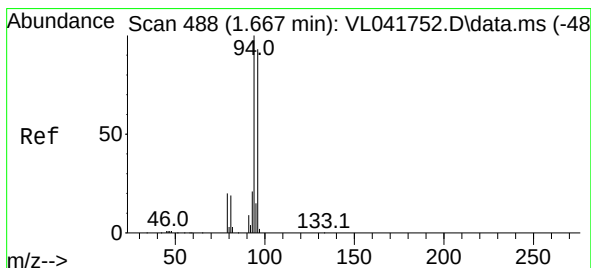
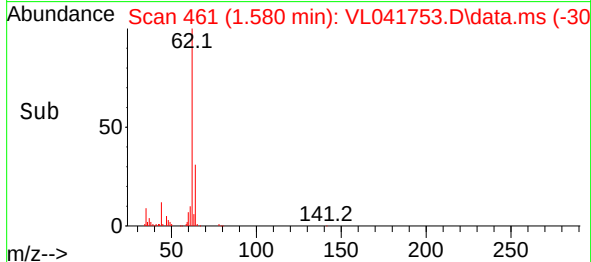
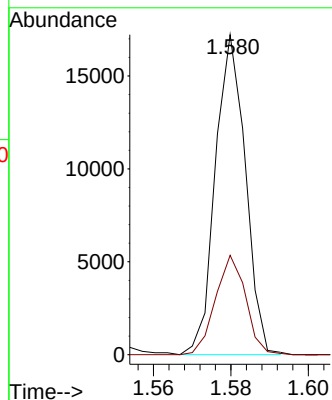
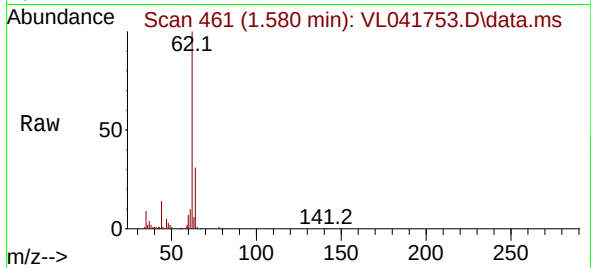




#5
 Vinyl Chloride
 Concen: 1.966 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

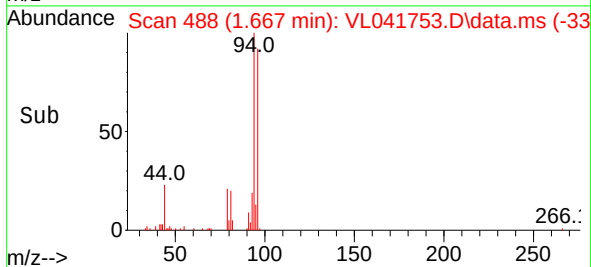
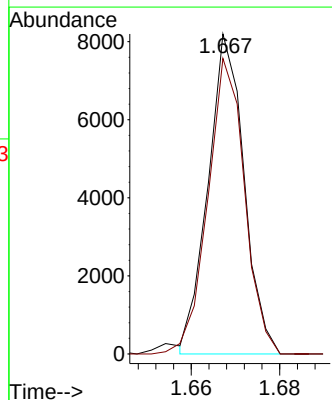
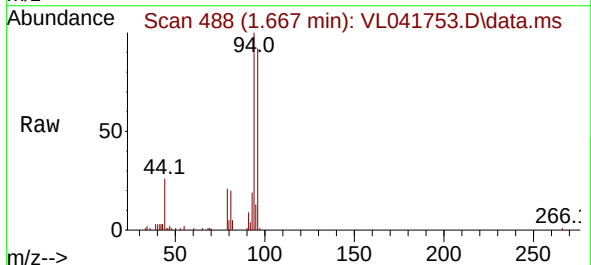
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

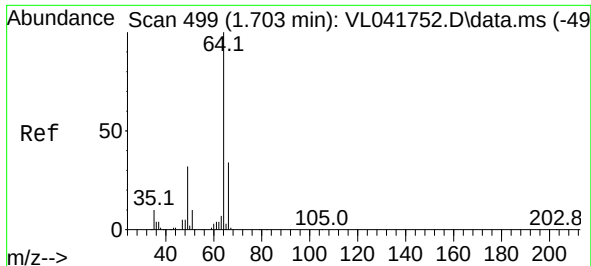
Tgt Ion: 62 Resp: 9300
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.1 37.7



#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

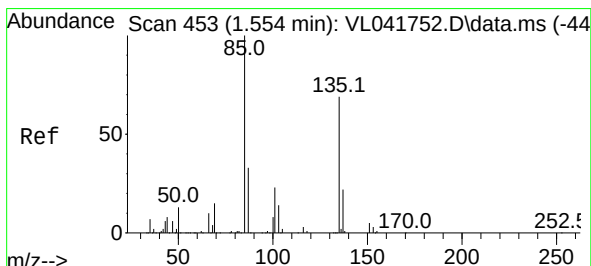
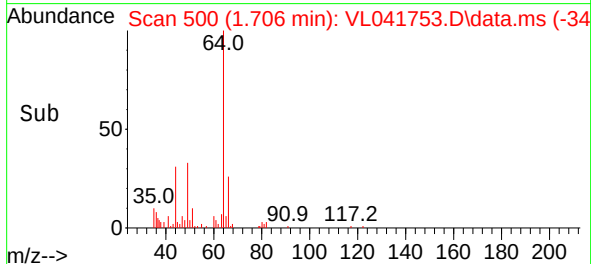
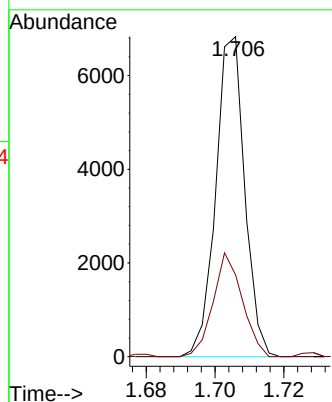
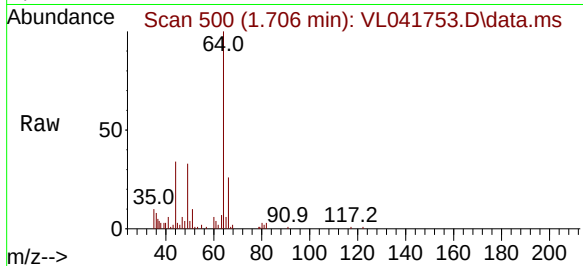




#7
Chloroethane
Concen: 2.178 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

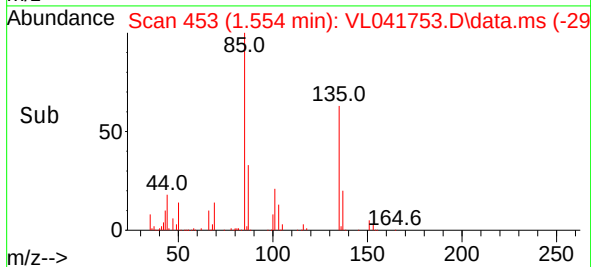
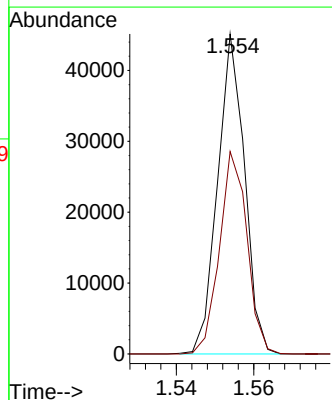
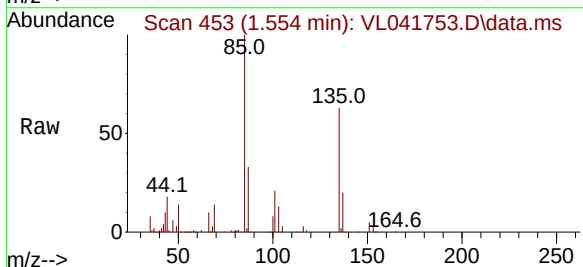
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

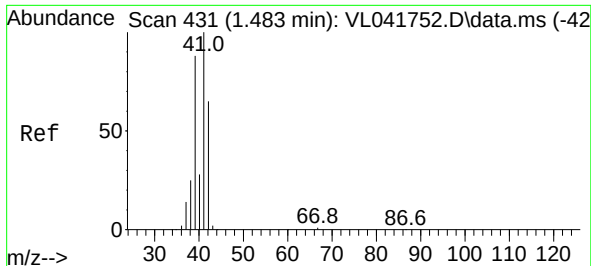
Tgt Ion: 64 Resp: 4003
Ion Ratio Lower Upper
64 100
66 25.6 27.5 41.3#



#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_1

ClientSampleId :

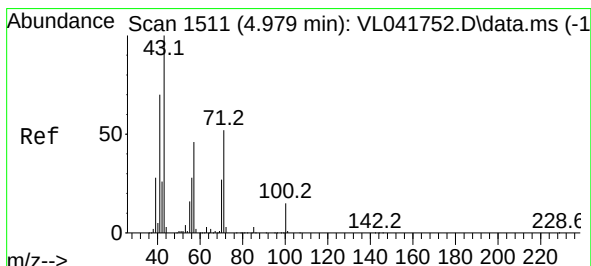
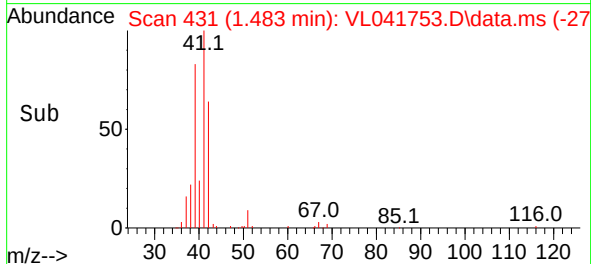
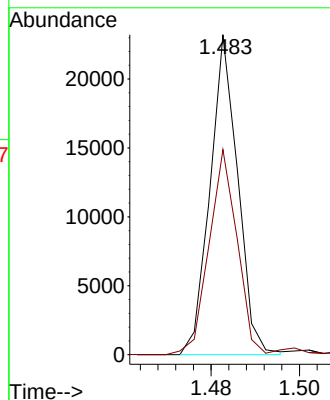
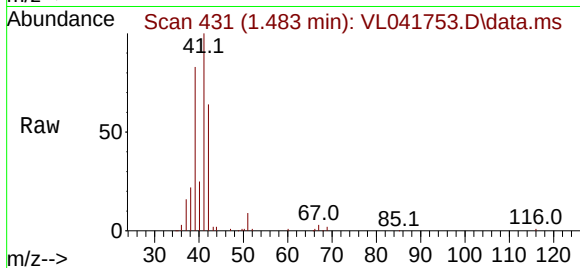
VSTDICC002

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

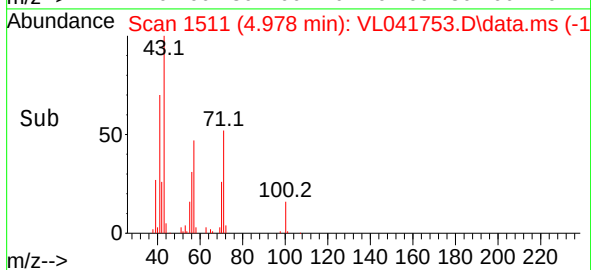
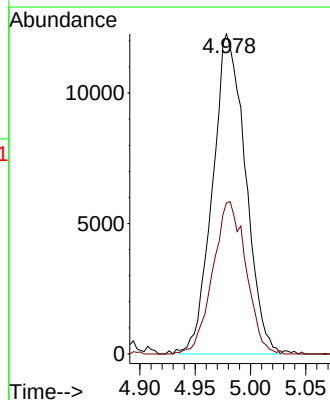
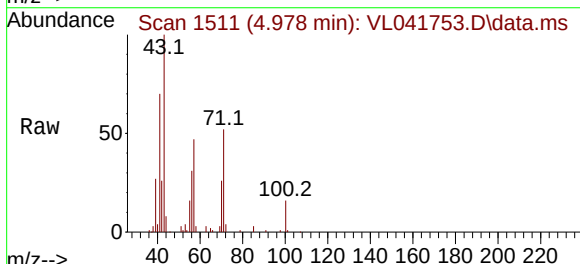
Acq: 16 Dec 2024 14:03

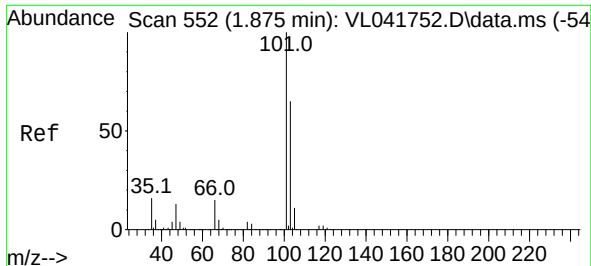
Tgt Ion: 43 Resp: 25297

Ion Ratio Lower Upper

43 100

57 48.1 38.5 57.7





#11

Trichlorofluoromethane

Concen: 2.056 ppbv

RT: 1.878 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

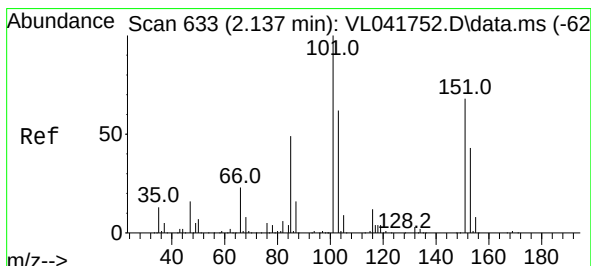
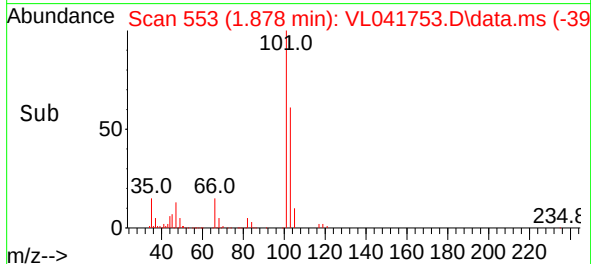
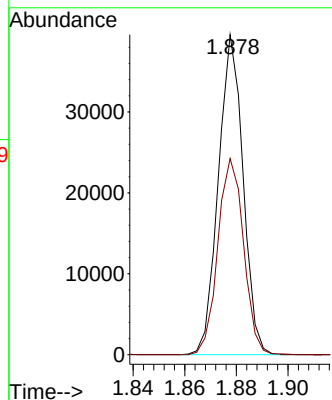
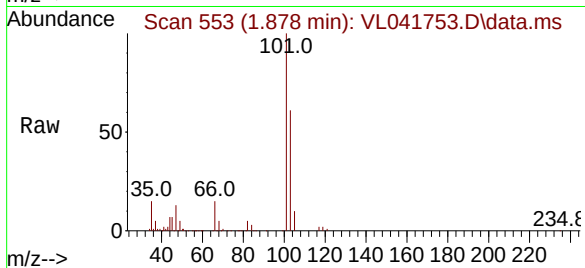
VSTDIC002

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

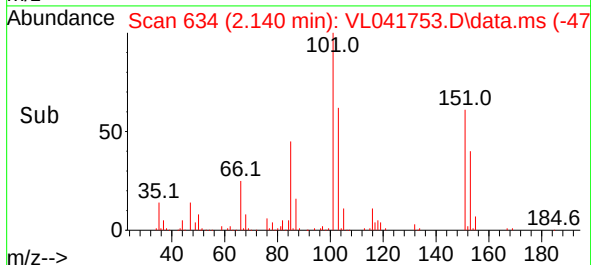
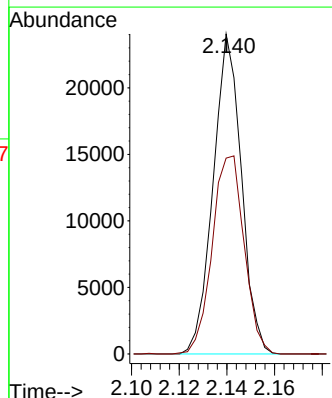
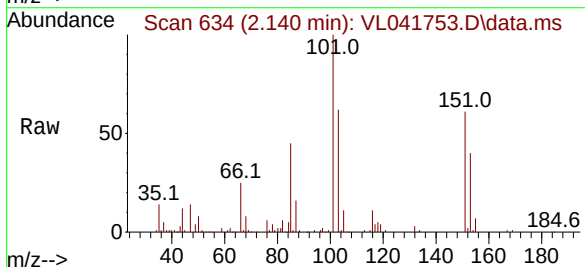
Acq: 16 Dec 2024 14:03

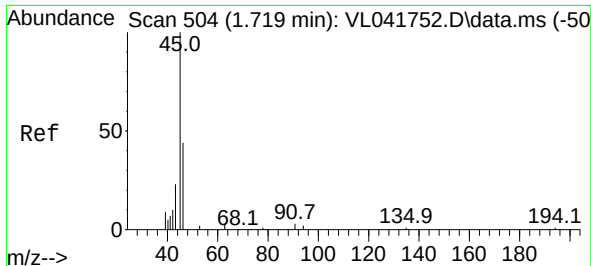
Tgt Ion:101 Resp: 19770

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 :

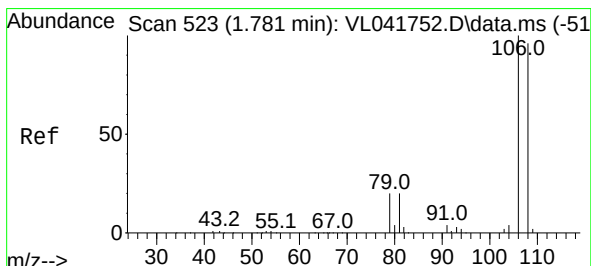
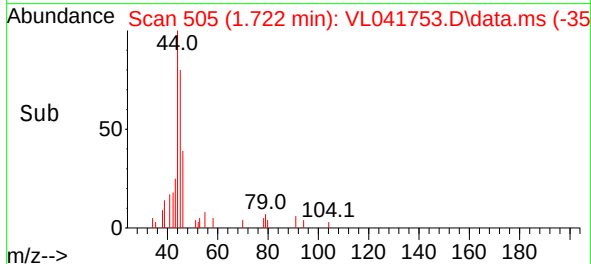
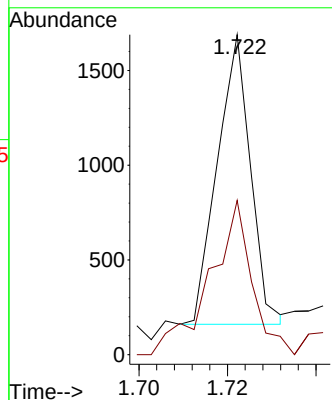
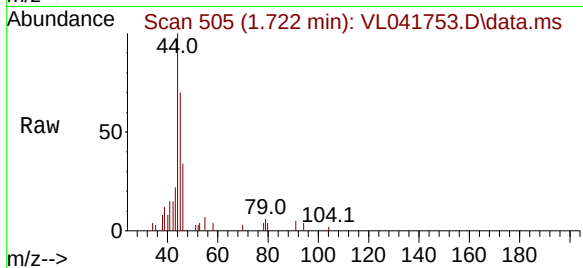
VSTDIC002

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

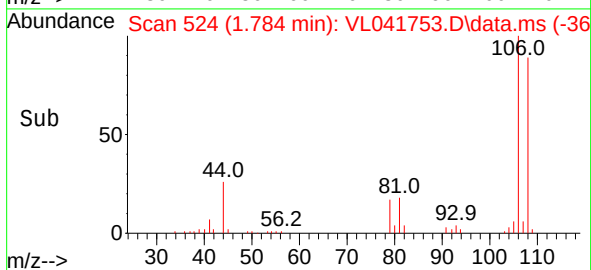
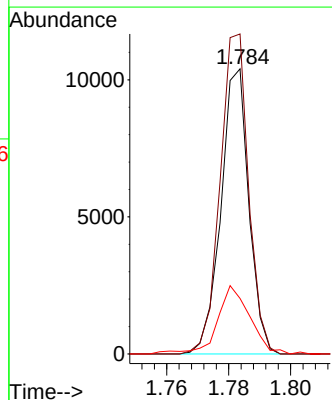
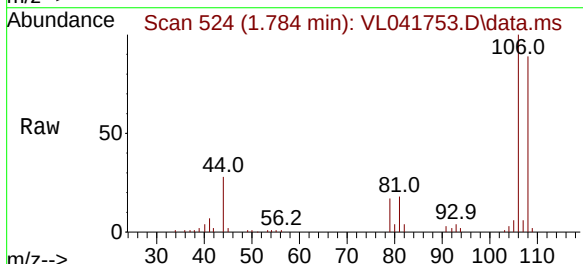
Tgt Ion: 108 Resp: 6527

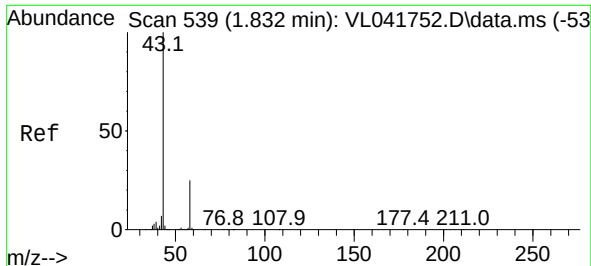
Ion Ratio Lower Upper

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 :

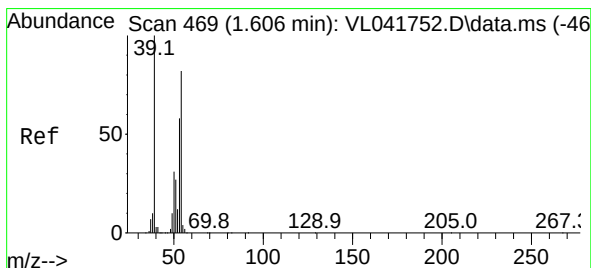
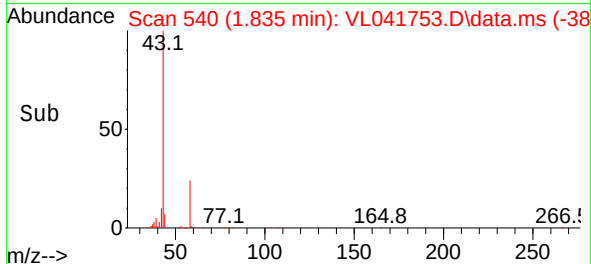
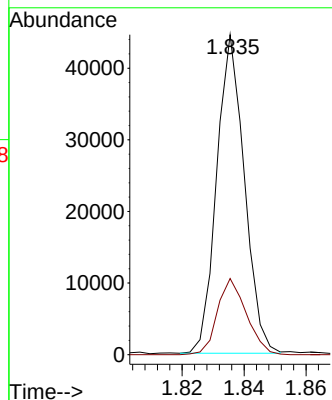
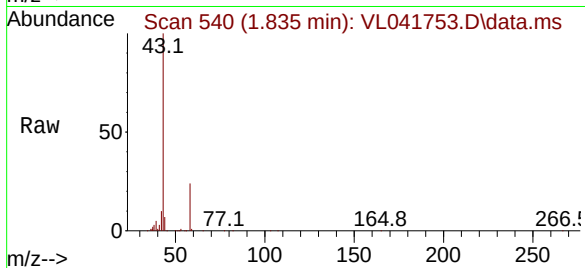
VSTDIC002

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

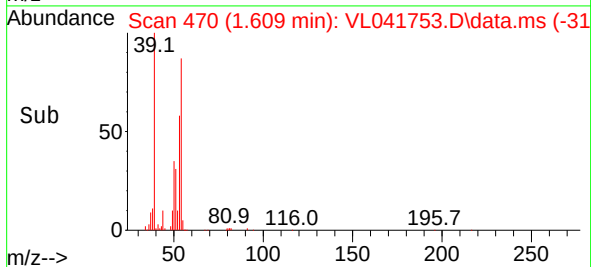
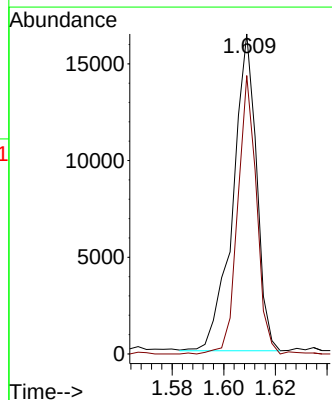
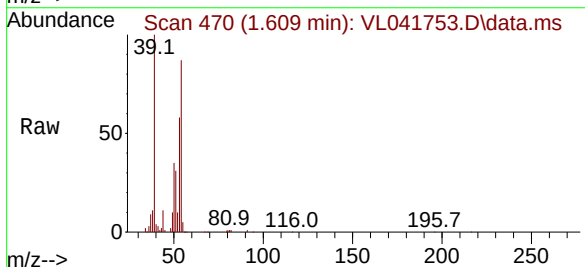
Acq: 16 Dec 2024 14:03

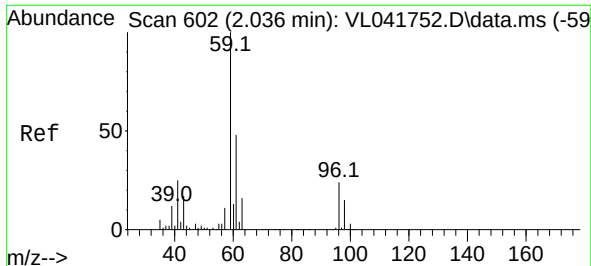
Tgt Ion: 39 Resp: 10478

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_L

ClientSampleId :

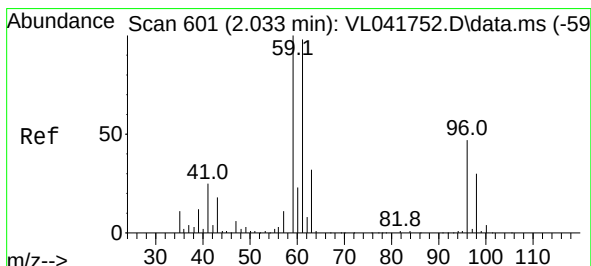
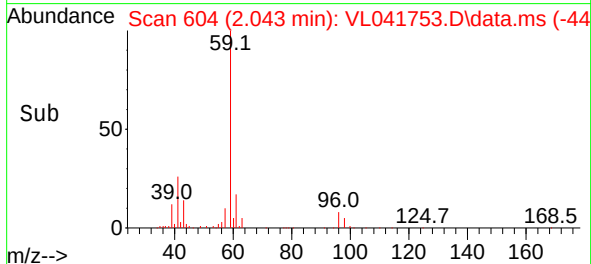
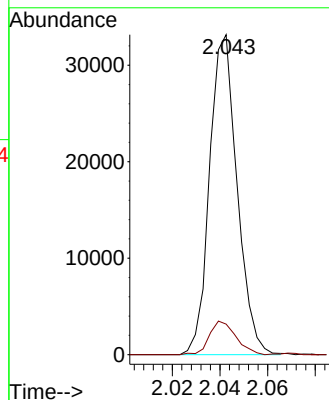
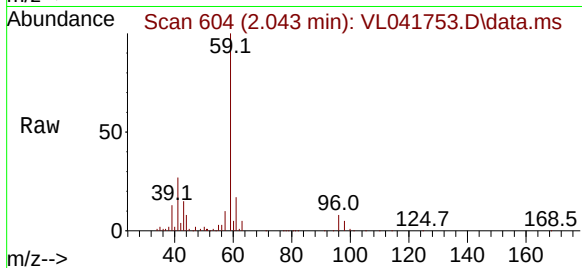
VSTDICC002

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

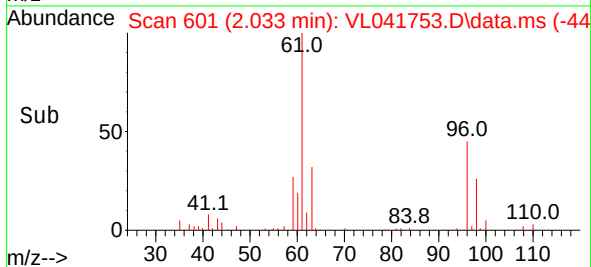
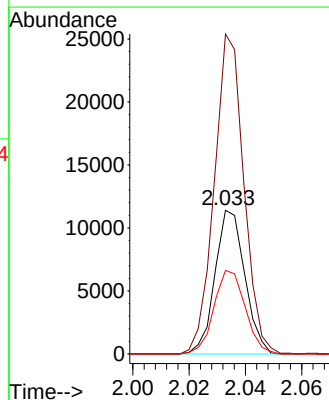
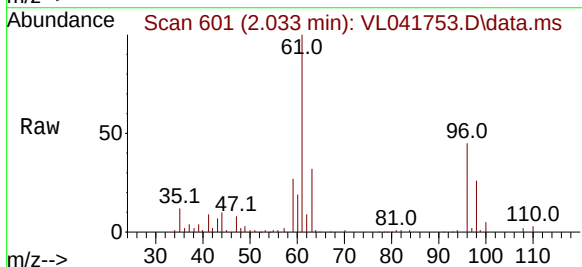
Tgt Ion: 96 Resp: 8389

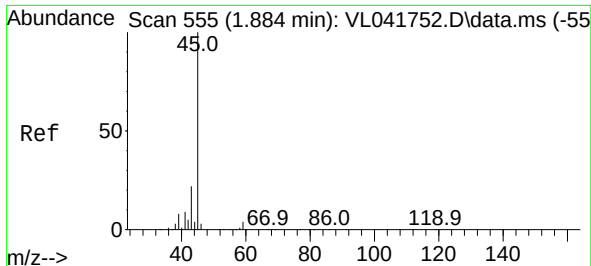
Ion Ratio Lower Upper

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 :

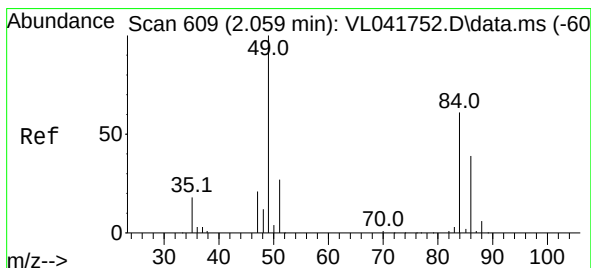
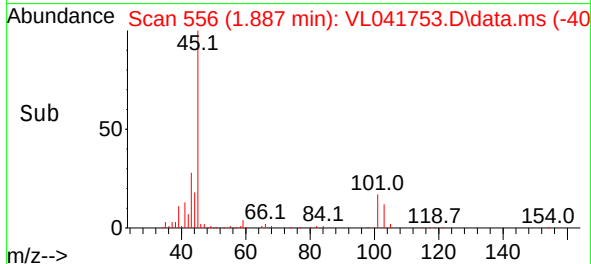
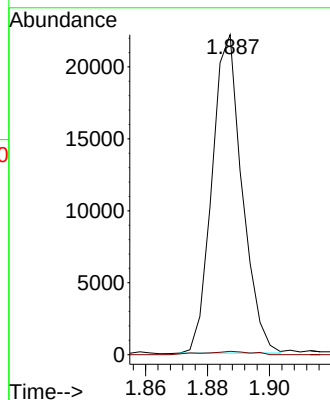
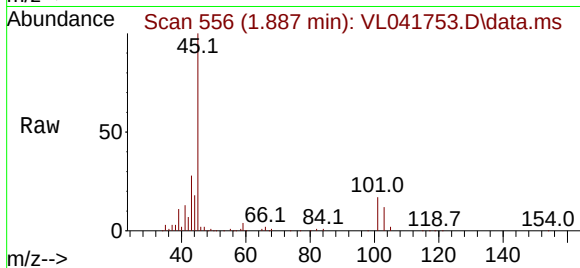
VSTDIC002

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

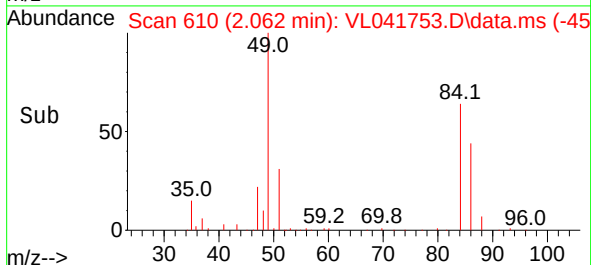
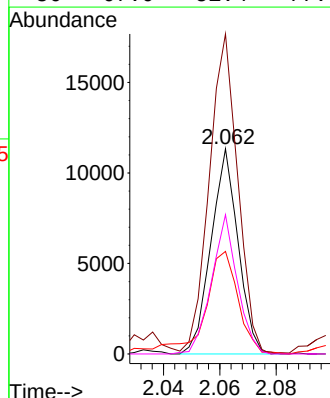
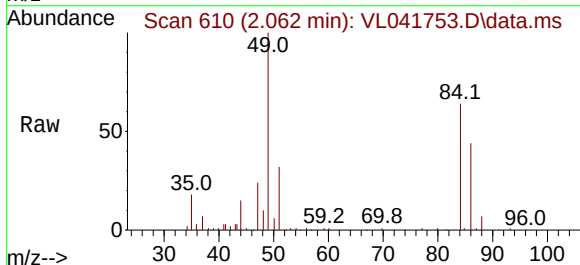
Ion Ratio Lower Upper

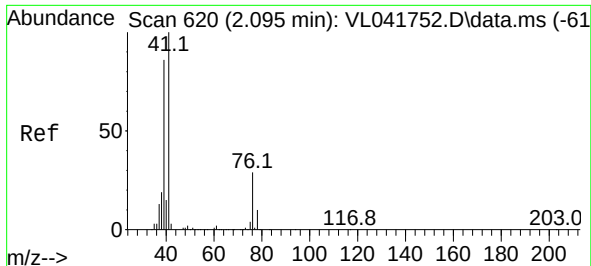
84 100

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

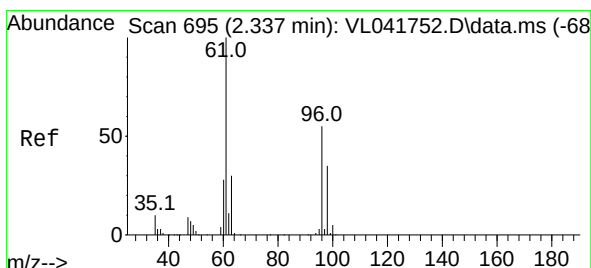
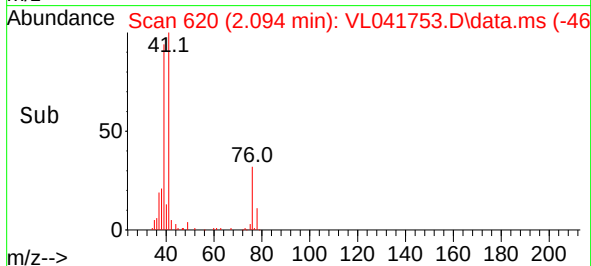
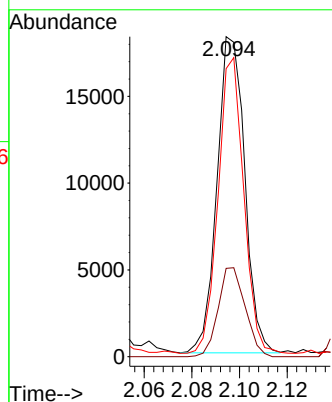
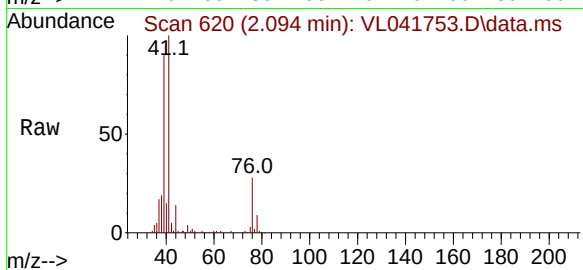
Tgt Ion: 41 Resp: 14731

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

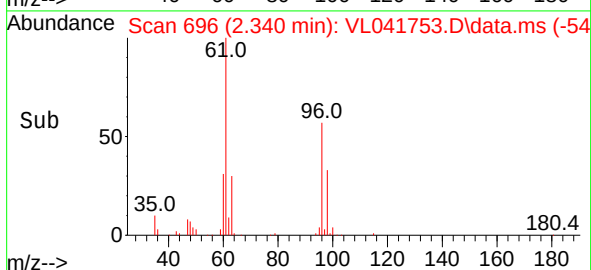
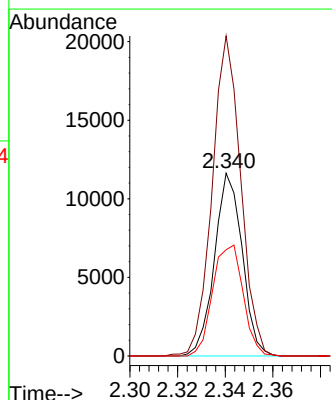
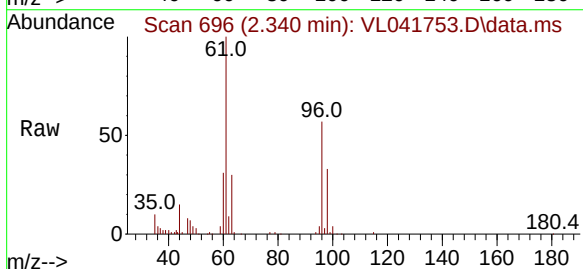
Tgt Ion: 96 Resp: 9407

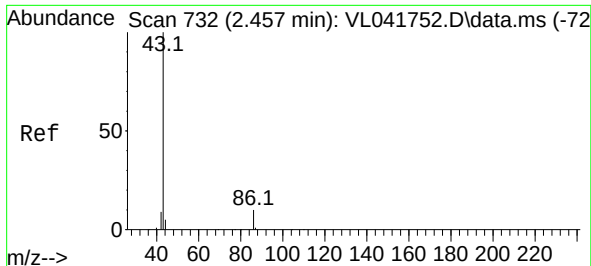
Ion Ratio Lower Upper

96 100

61 175.1 146.3 219.5

98 58.2 50.8 76.2

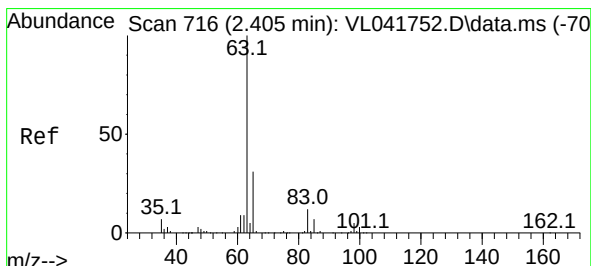
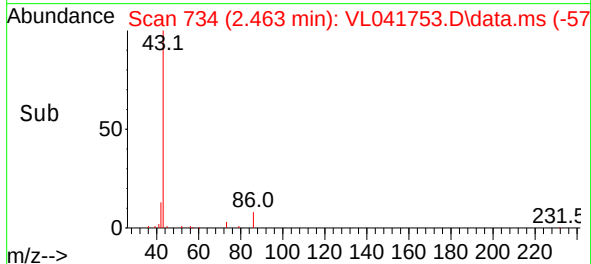
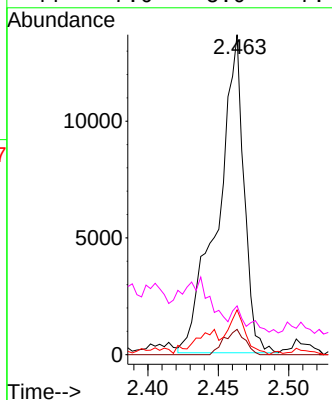
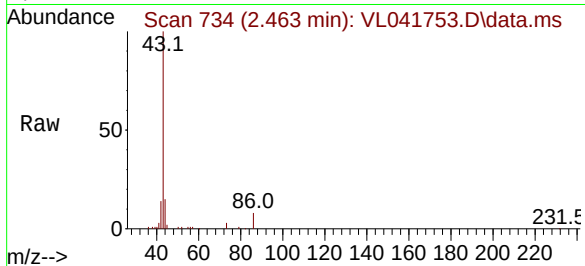




#23
 Vinyl Acetate
 Concen: 3.096 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

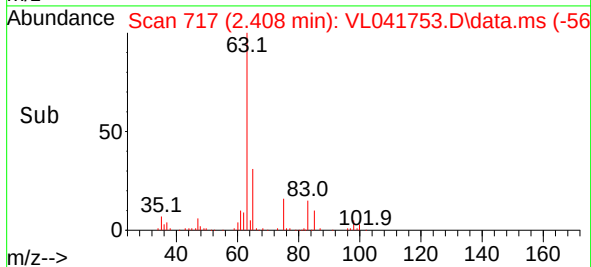
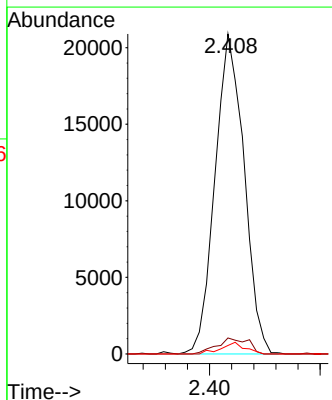
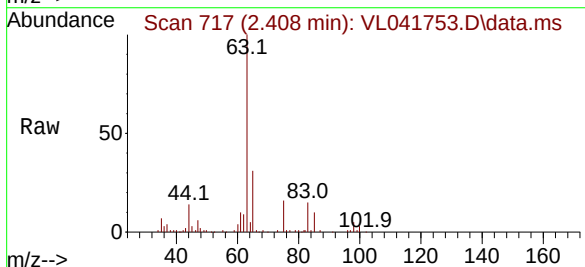
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

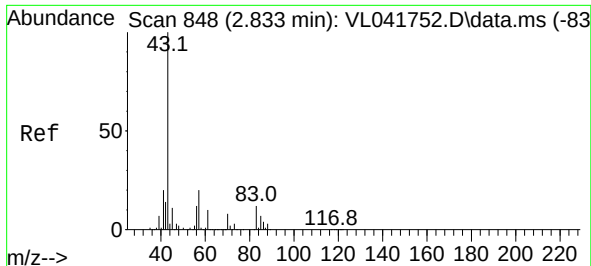
Tgt Ion:	43	Resp:	17652
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.6	10.0
42	13.0	8.2	12.2#
44	7.6	5.0	7.4#



#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

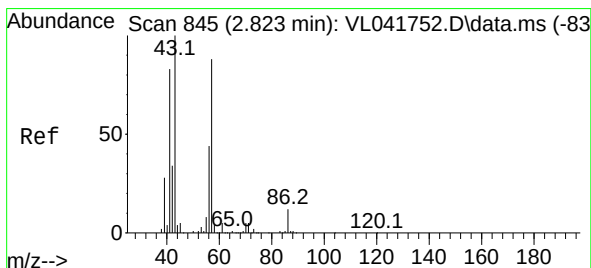
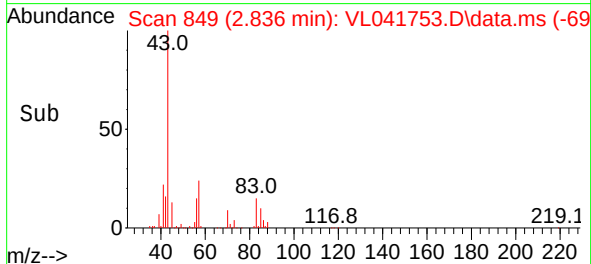
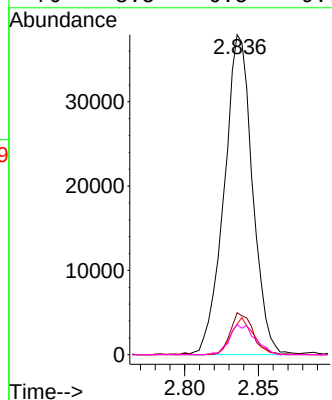
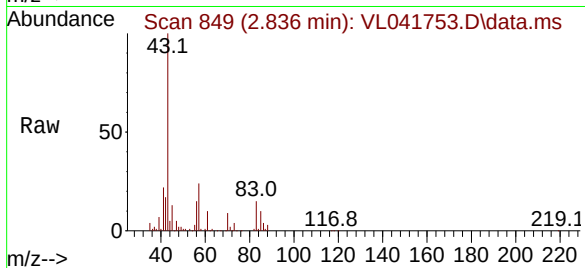
Ion Ratio Lower Upper

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

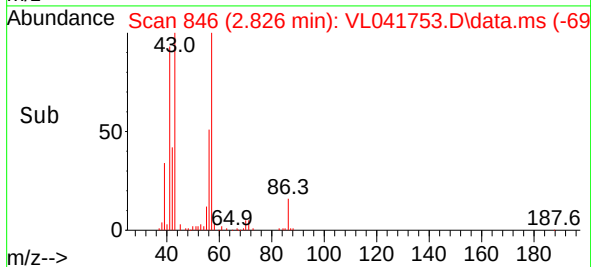
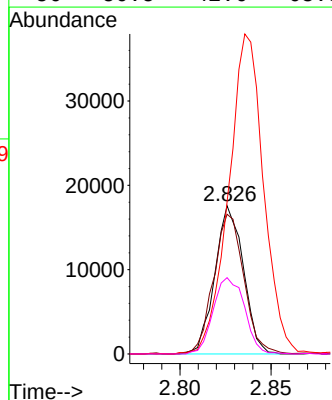
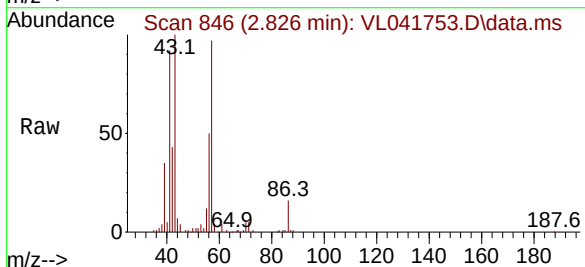
Ion Ratio Lower Upper

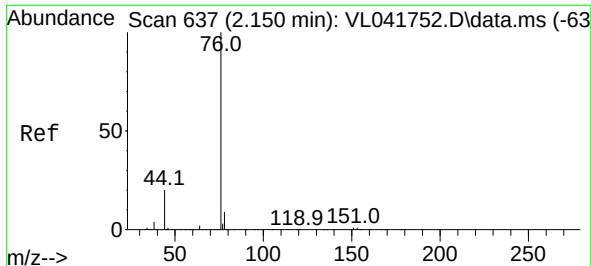
57 100

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

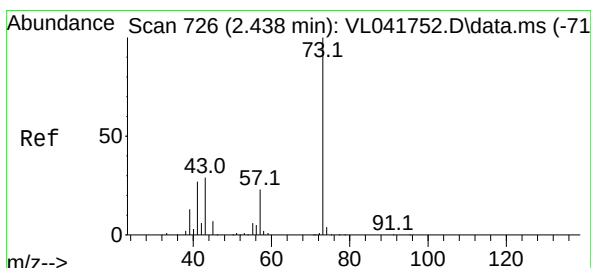
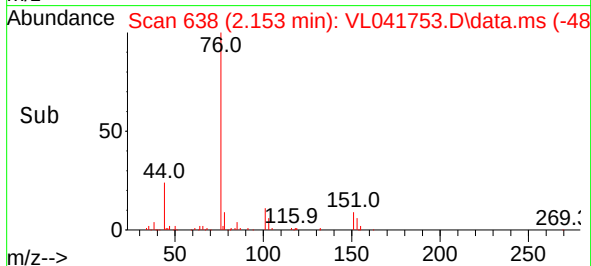
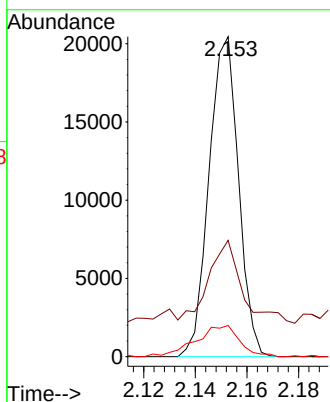
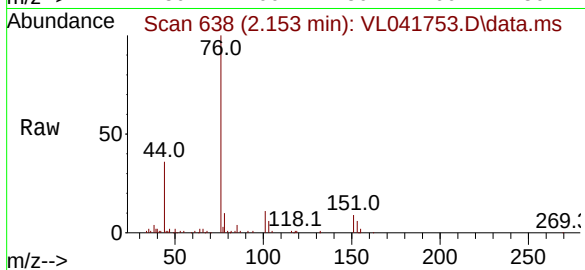
Tgt Ion: 76 Resp: 16214

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

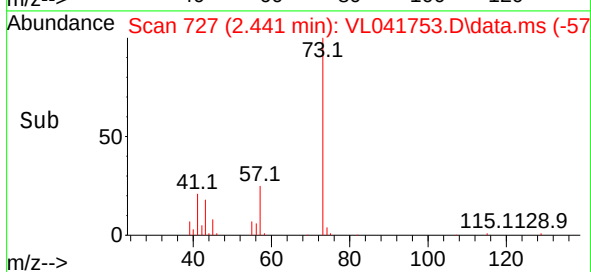
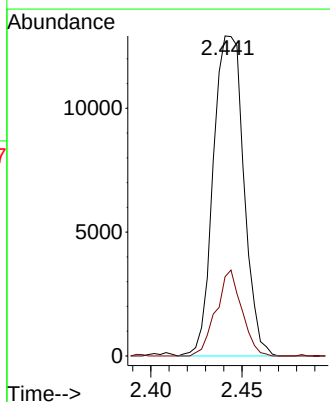
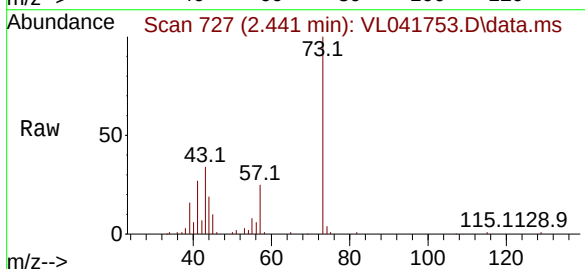
Acq: 16 Dec 2024 14:03

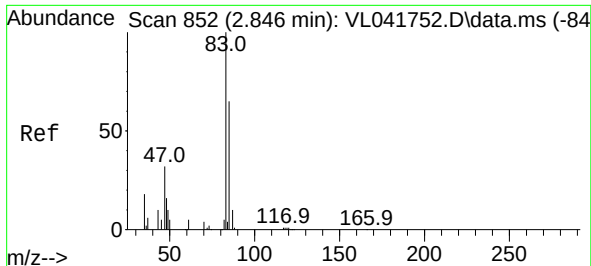
Tgt Ion: 73 Resp: 15039

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 :

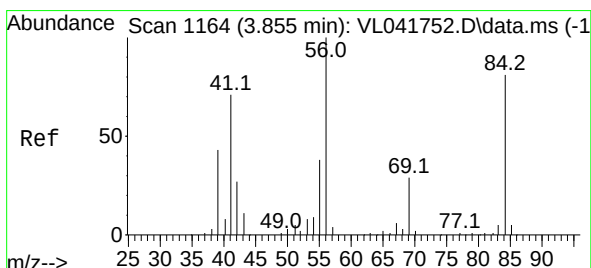
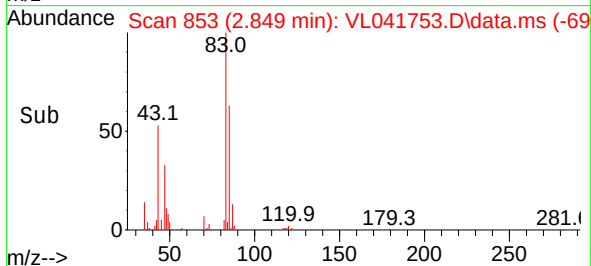
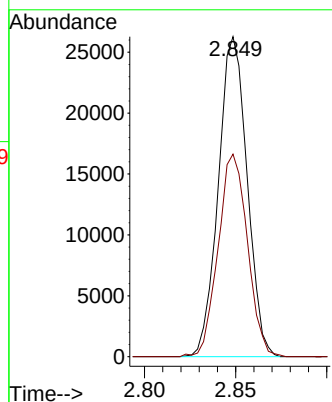
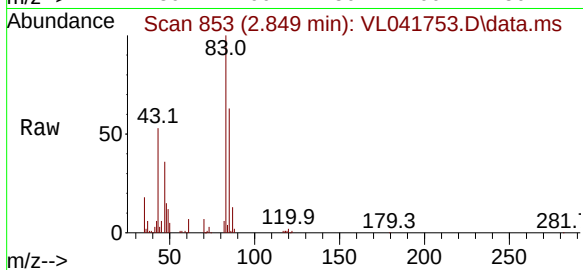
VSTDICC002

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

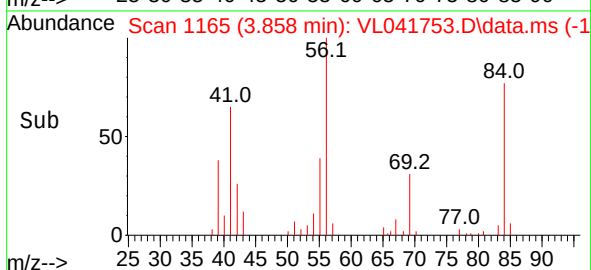
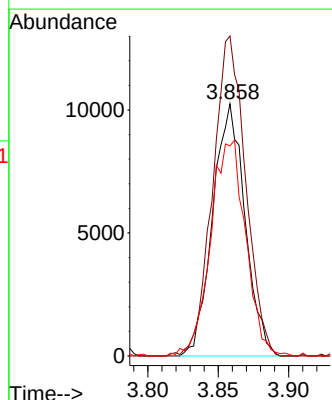
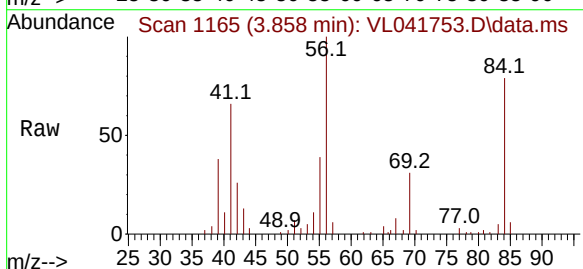
Tgt Ion: 84 Resp: 16384

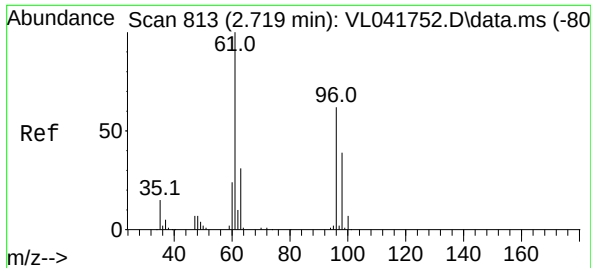
Ion Ratio Lower Upper

84 100

56 129.2 102.3 153.5

41 92.9 74.0 111.0

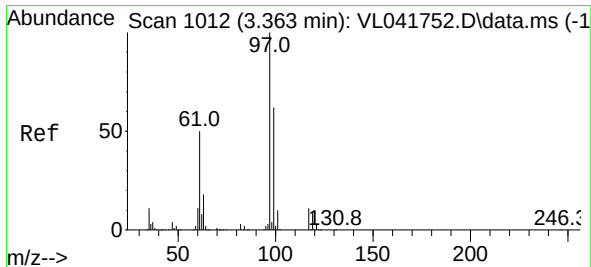
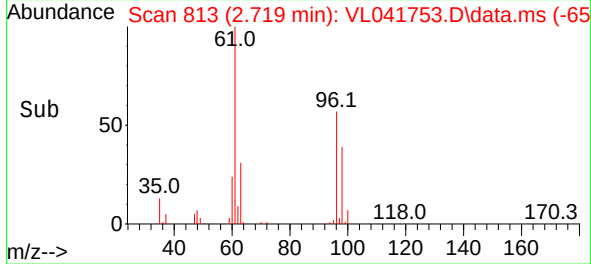
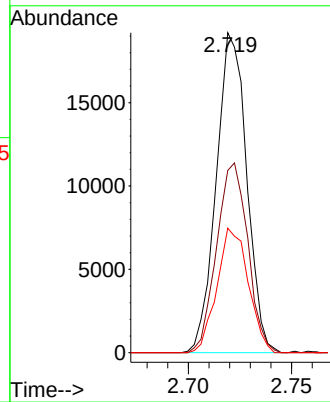
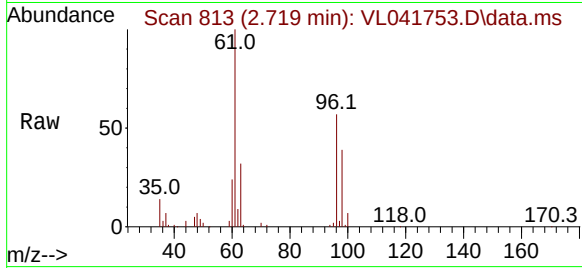




#31
 cis-1,2-Dichloroethene
 Concen: 2.057 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

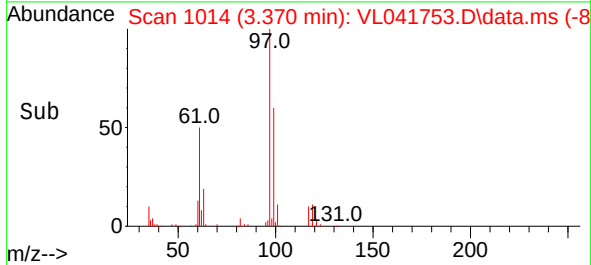
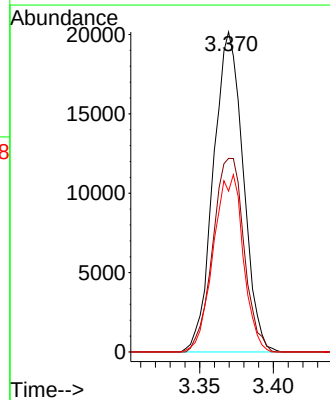
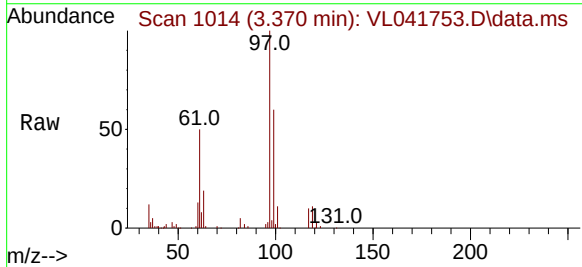
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

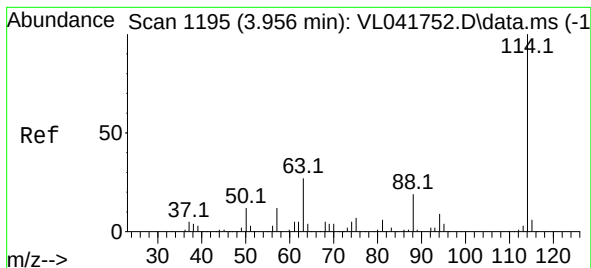
Tgt Ion: 61 Resp: 19688
 Ion Ratio Lower Upper
 61 100
 96 56.9 49.7 74.5
 98 38.9 30.8 46.2



#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

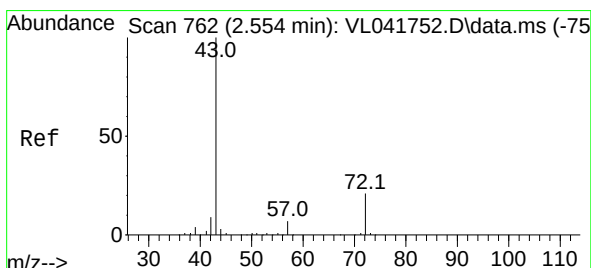
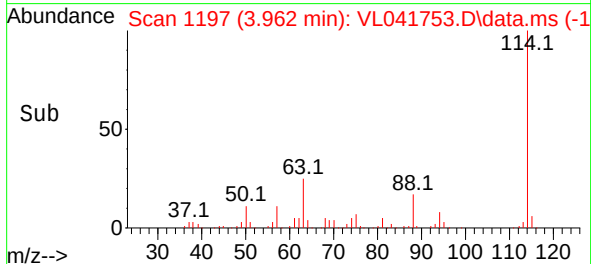
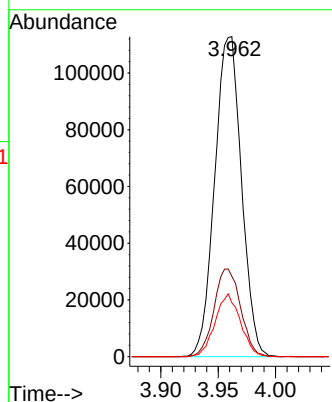
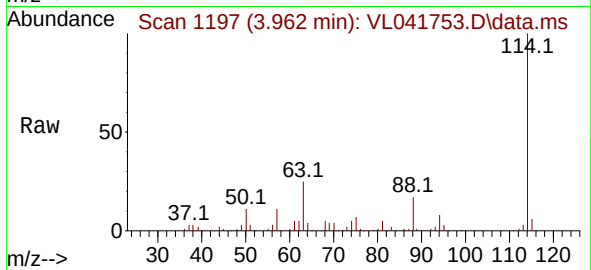
Tgt Ion:114 Resp: 182992

Ion Ratio Lower Upper

114 100

63 27.3 21.8 32.8

88 18.5 14.8 22.2



#34

2-Butanone

Concen: 2.138 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL041753.D

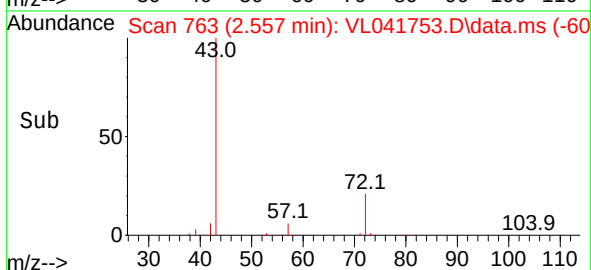
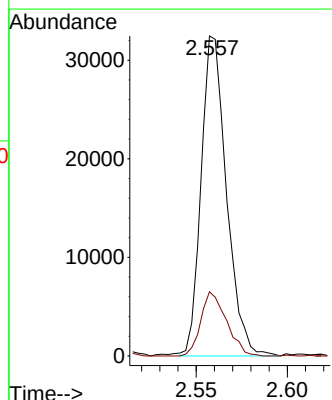
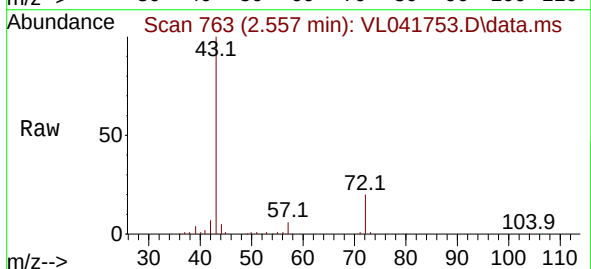
Acq: 16 Dec 2024 14:03

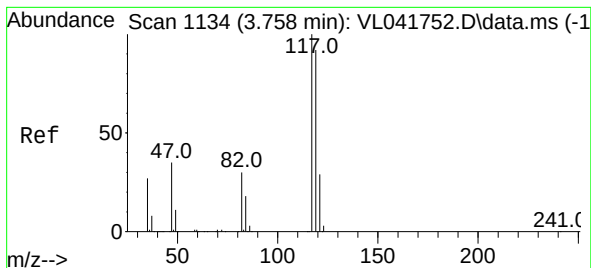
Tgt Ion: 43 Resp: 31483

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_1

ClientSampleId :

VSTDIC002

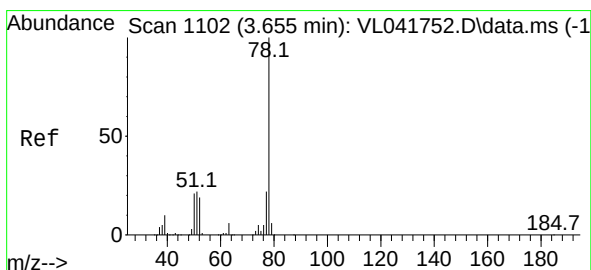
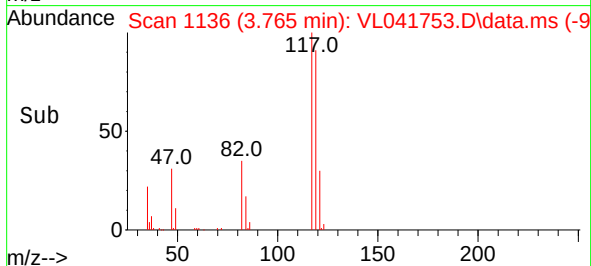
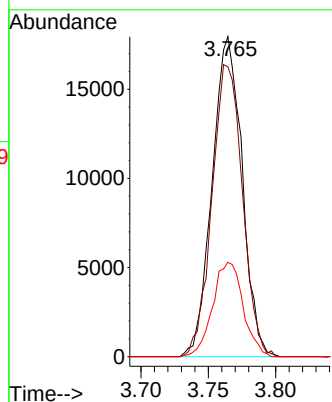
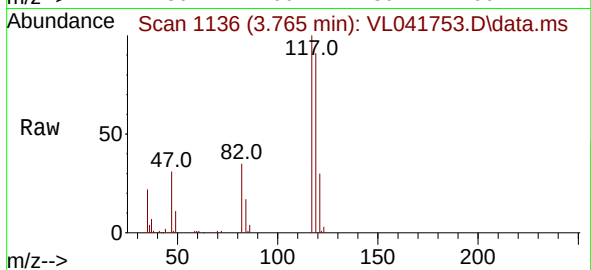
Tgt Ion:117 Resp: 27727

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

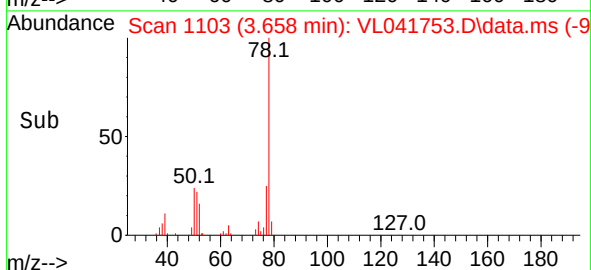
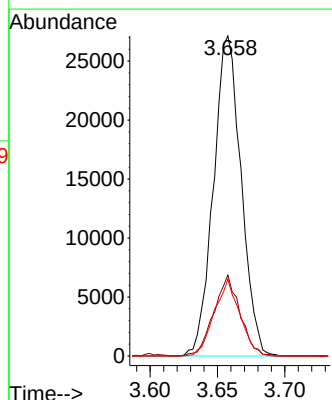
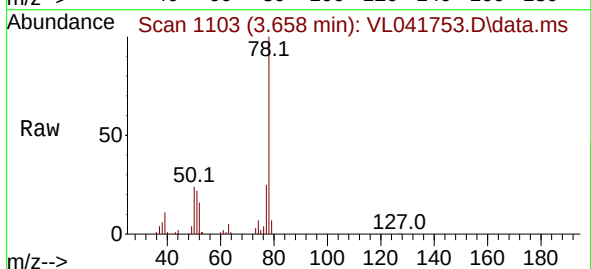
Tgt Ion: 78 Resp: 38759

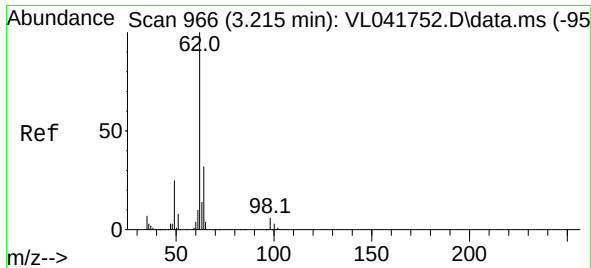
Ion Ratio Lower Upper

78 100

77 25.3 17.8 26.6

50 24.0 17.2 25.8

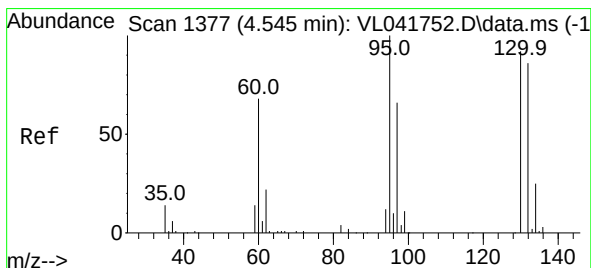
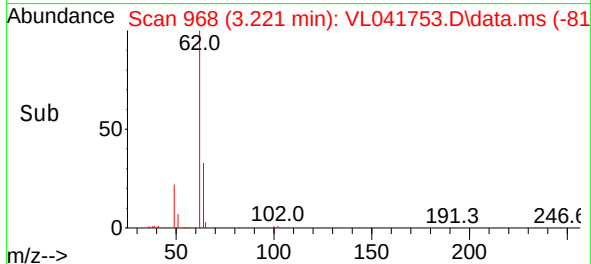
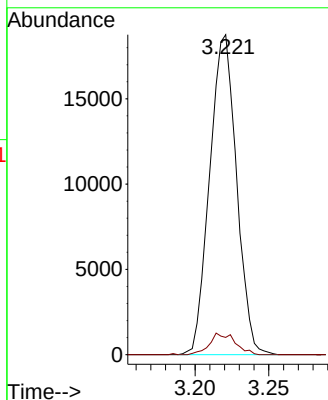
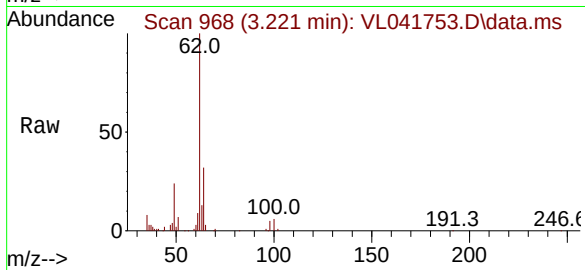




#37
1,2-Dichloroethane
Concen: 2.021 ppbv
RT: 3.221 min Scan# 966
Delta R.T. 0.006 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

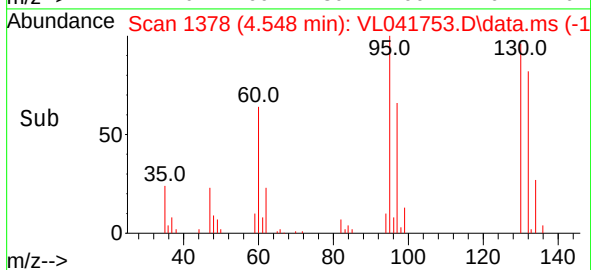
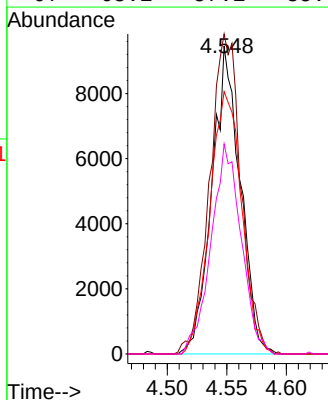
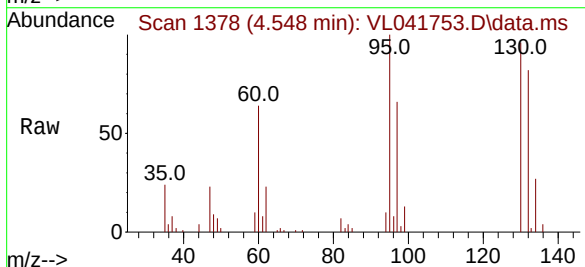
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

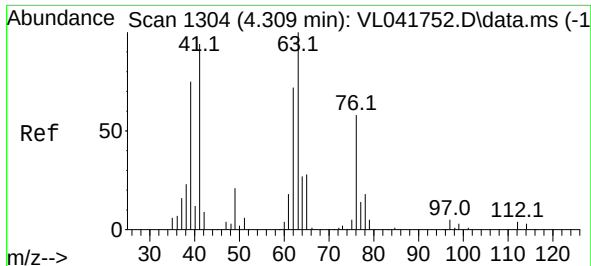
Tgt Ion: 62 Resp: 23800
Ion Ratio Lower Upper
62 100
98 6.4 4.7 7.1



#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

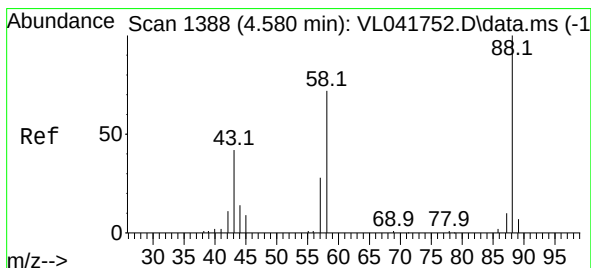
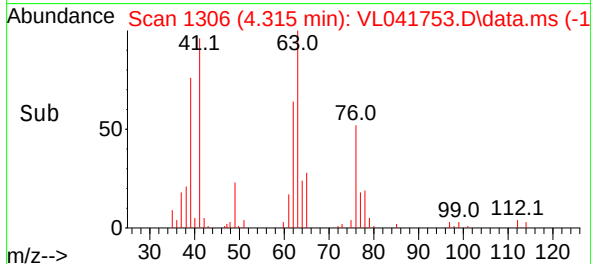
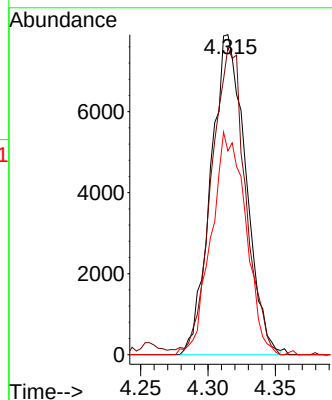
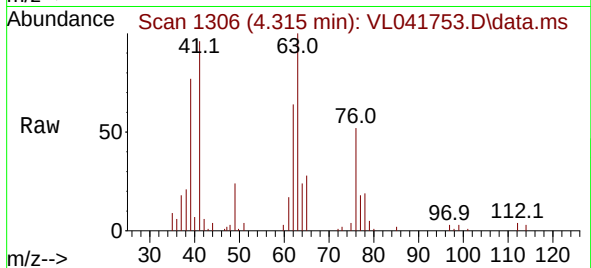
Tgt Ion: 63 Resp: 14197

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

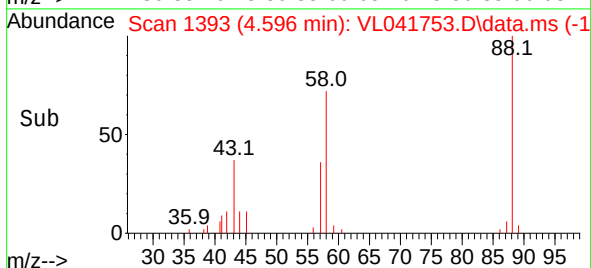
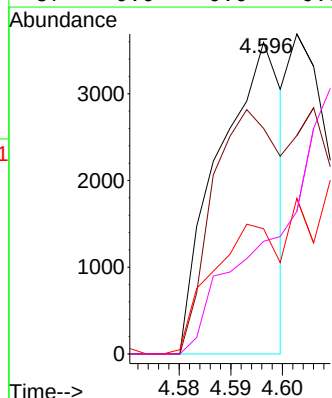
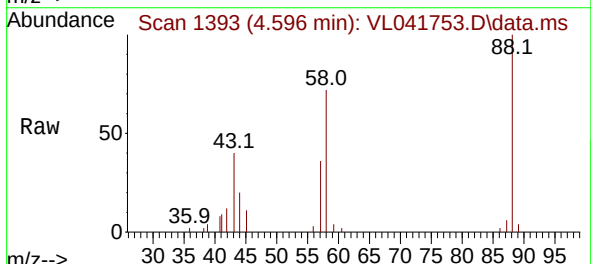
Ion Ratio Lower Upper

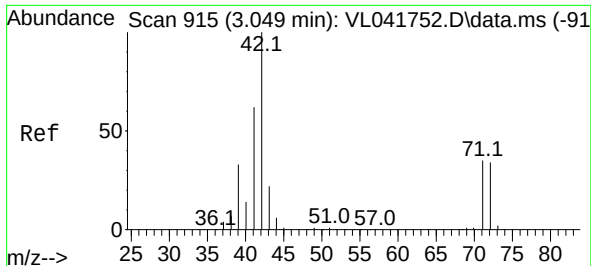
88 100

58 0.0 61.0 91.6#

43 0.0 29.4 44.0#

57 0.0 0.0 0.0

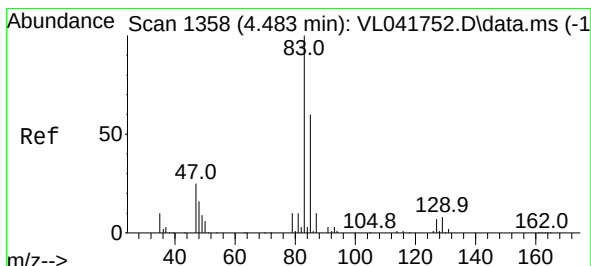
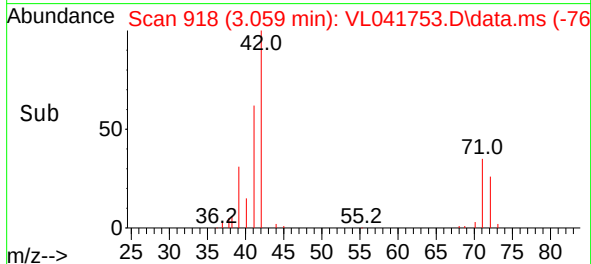
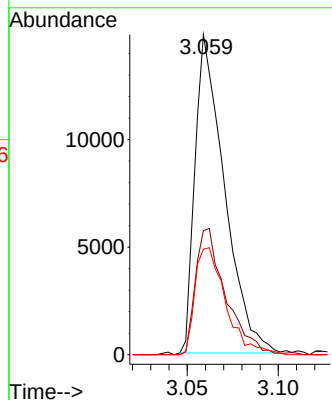
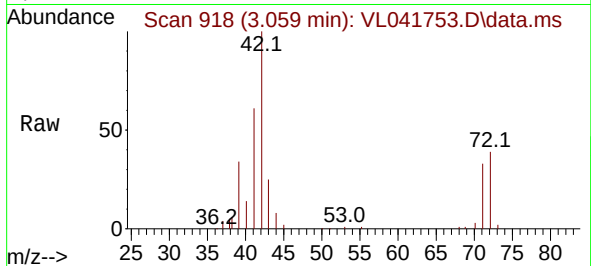




#41
Tetrahydrofuran
Concen: 2.021 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.009 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

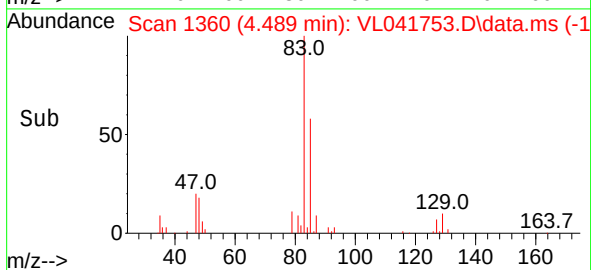
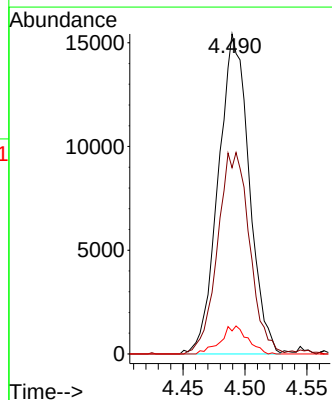
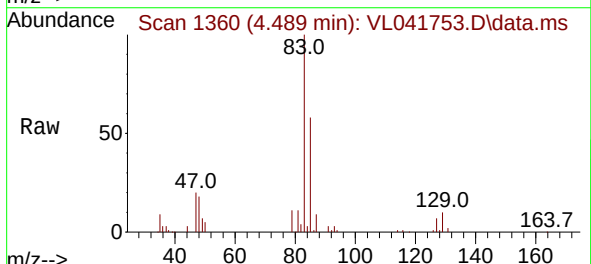
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

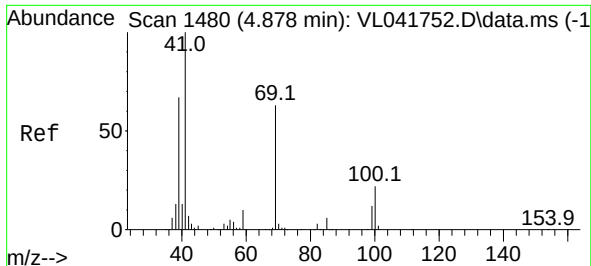
Tgt Ion: 42 Resp: 16665
Ion Ratio Lower Upper
42 100
72 40.7 29.1 43.7
71 34.9 28.4 42.6



#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# 1482

Delta R.T. 0.006 min

Lab File: VL041753.D

Acq: 16 Dec 2024 14:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

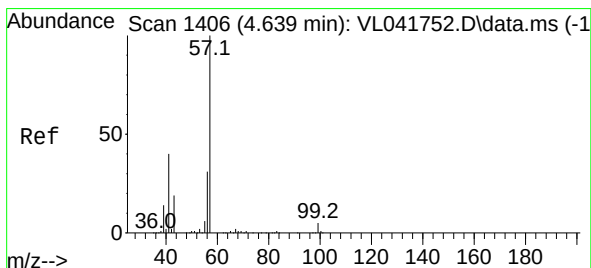
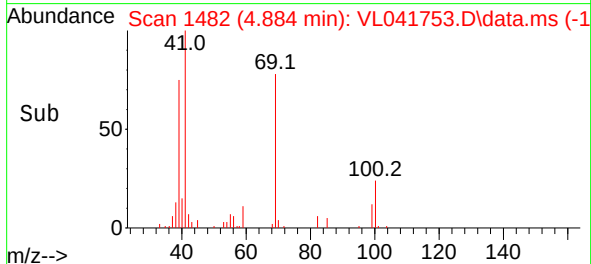
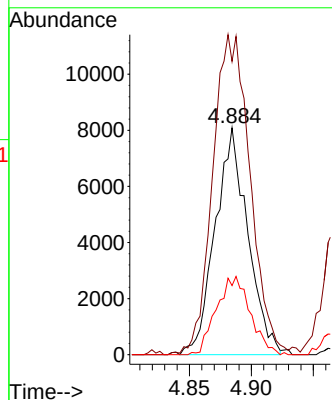
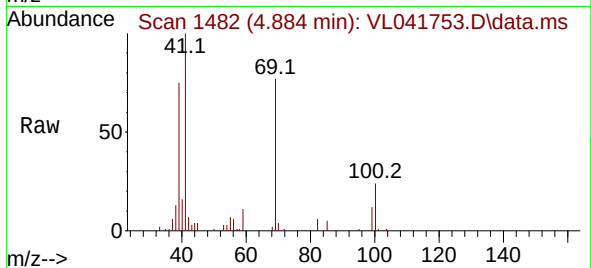
Tgt Ion: 69 Resp: 14849

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

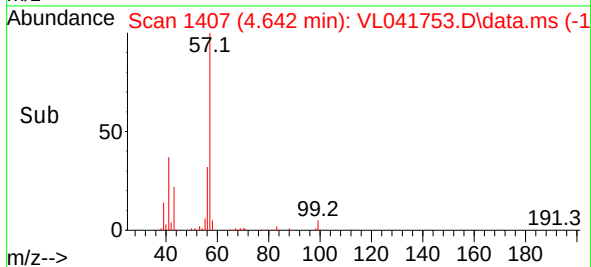
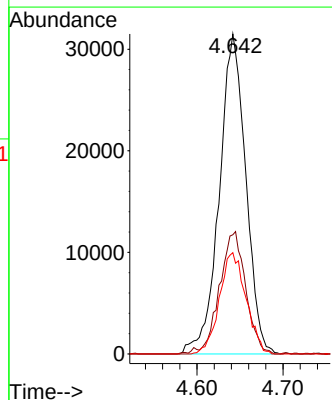
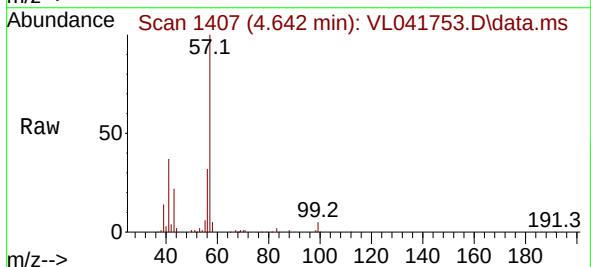
Tgt Ion: 57 Resp: 67432

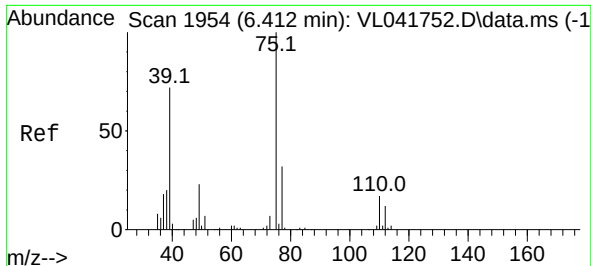
Ion Ratio Lower Upper

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 :

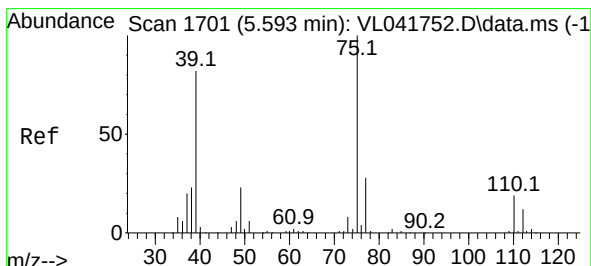
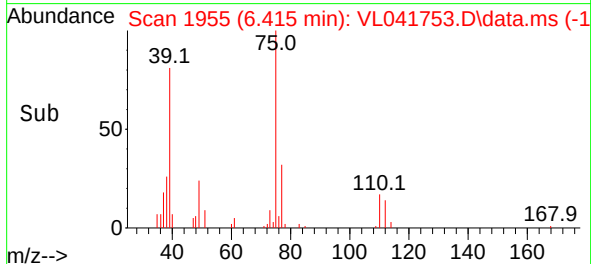
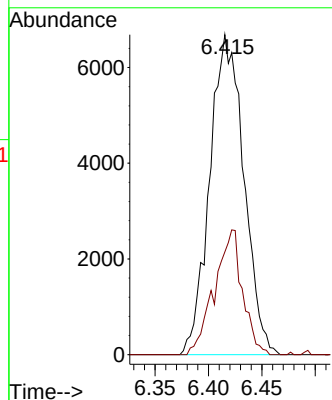
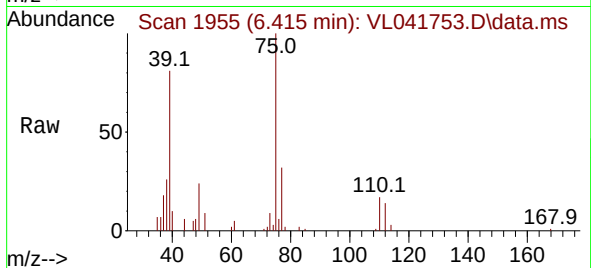
VSTDIC002

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

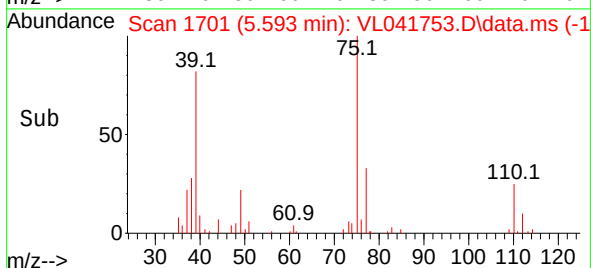
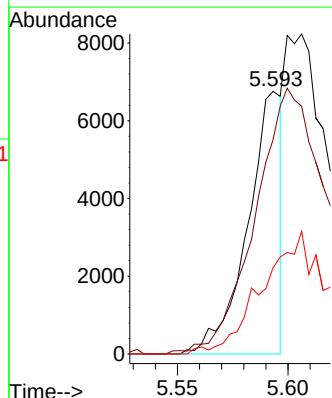
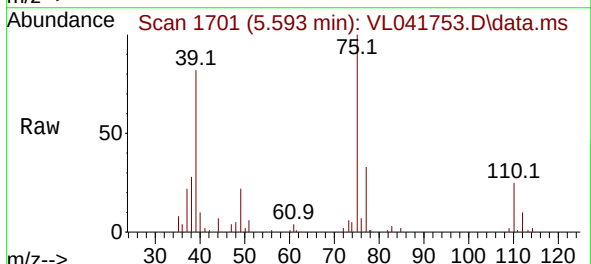
Tgt Ion: 75 Resp: 7224

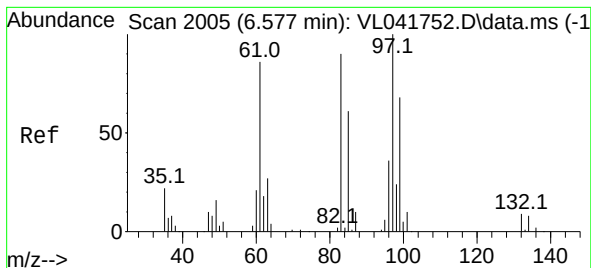
Ion Ratio Lower Upper

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 :

VSTDIC002

Tgt Ion: 97 Resp: 14858

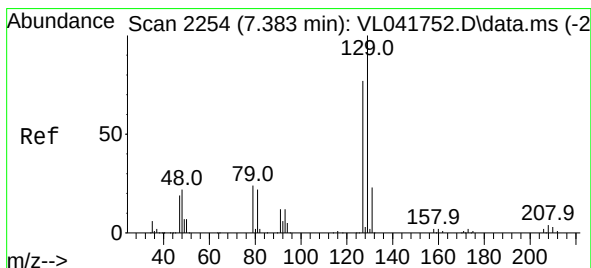
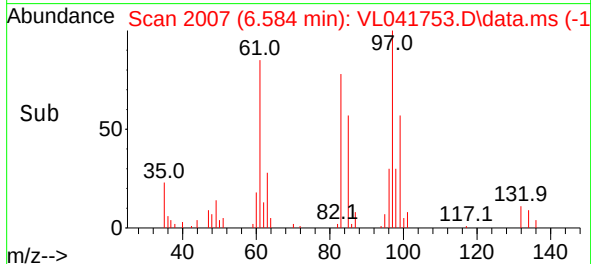
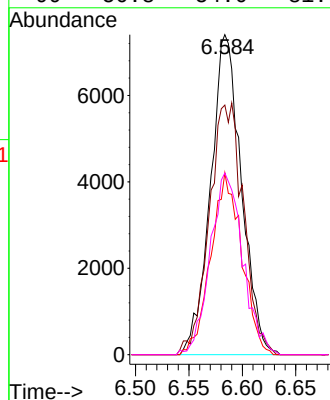
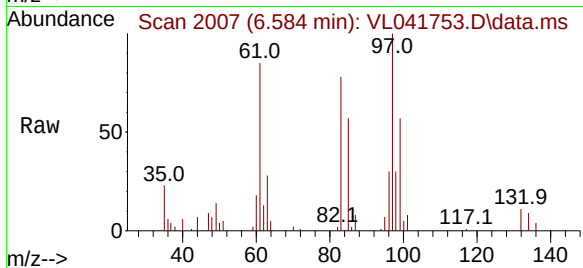
Ion Ratio Lower Upper

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

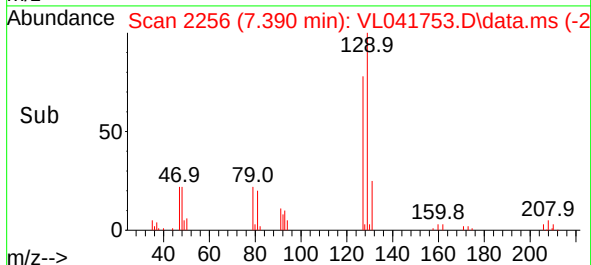
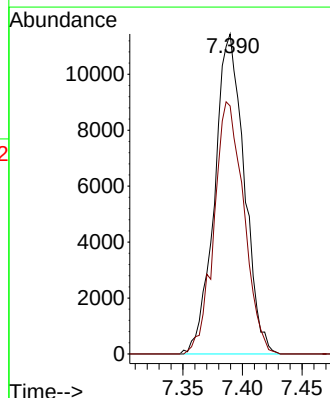
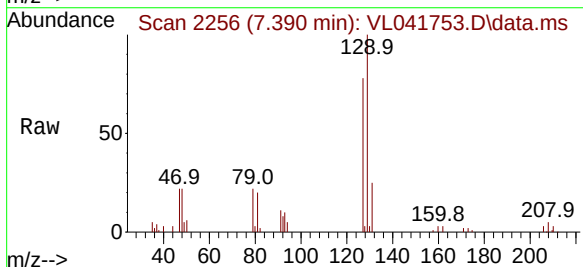
Acq: 16 Dec 2024 14:03

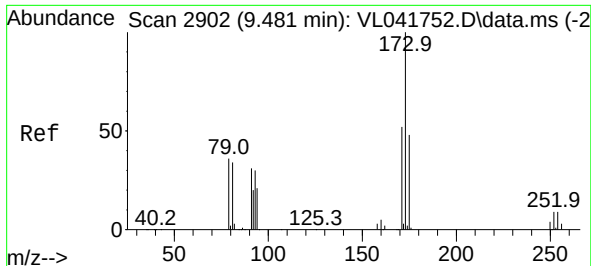
Tgt Ion: 129 Resp: 19764

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

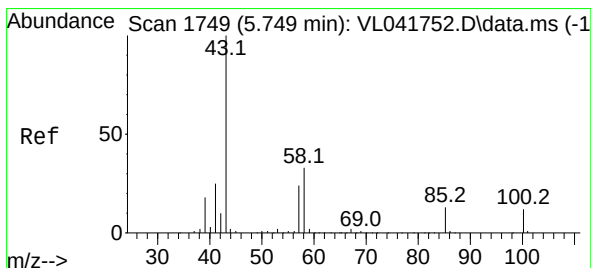
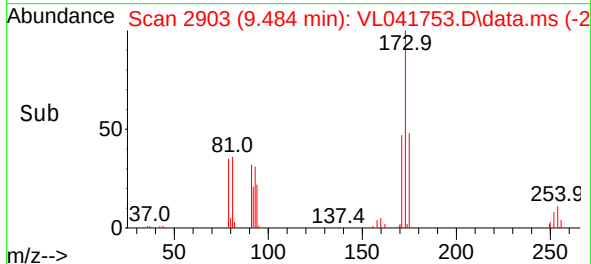
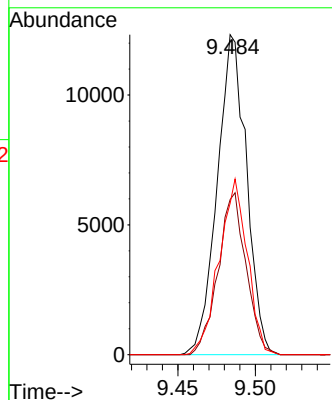
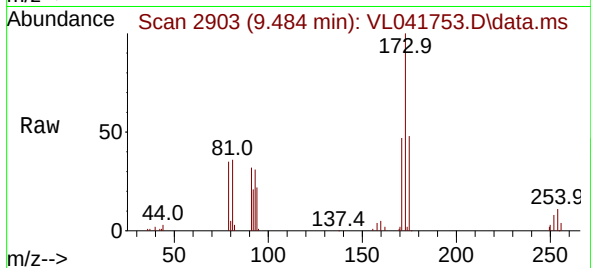
Tgt Ion:173 Resp: 16200

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

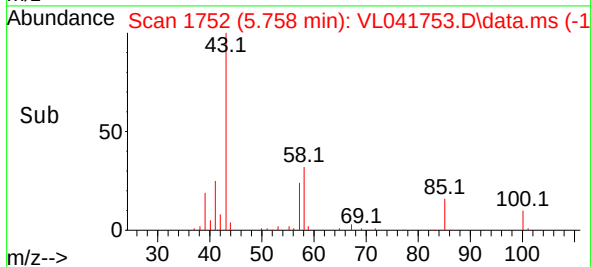
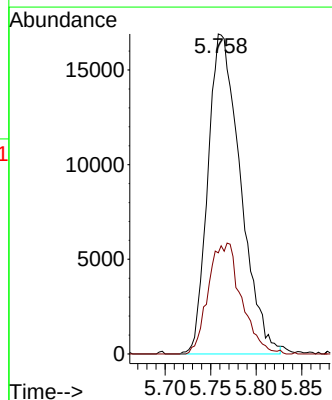
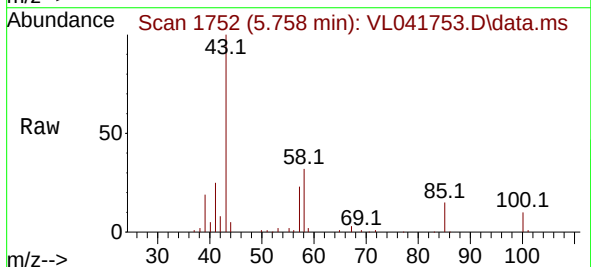
Acq: 16 Dec 2024 14:03

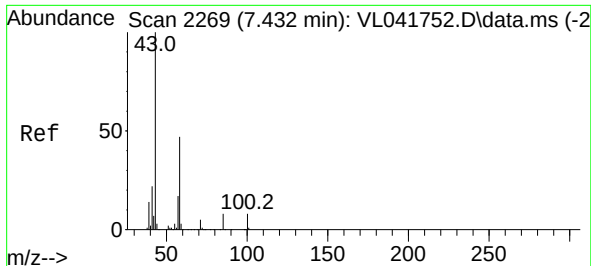
Tgt Ion: 43 Resp: 42045

Ion Ratio Lower Upper

43 100

58 35.1 26.8 40.2

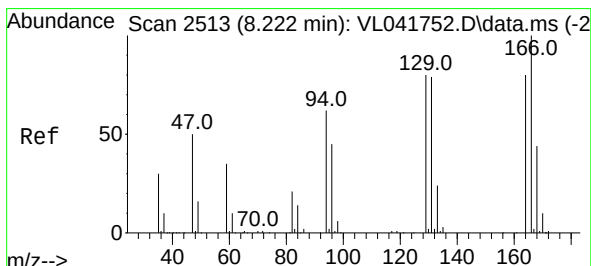
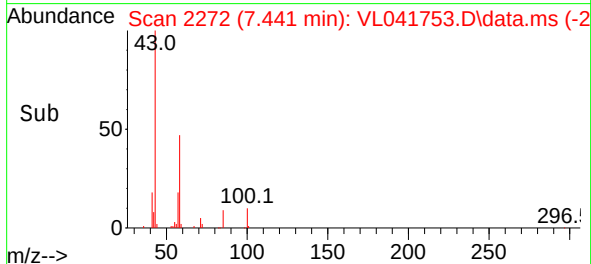
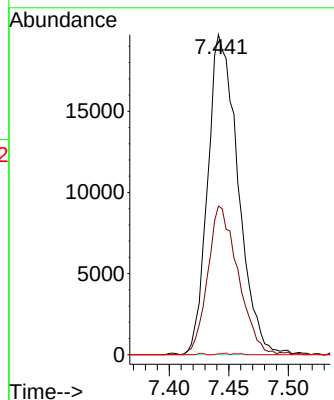
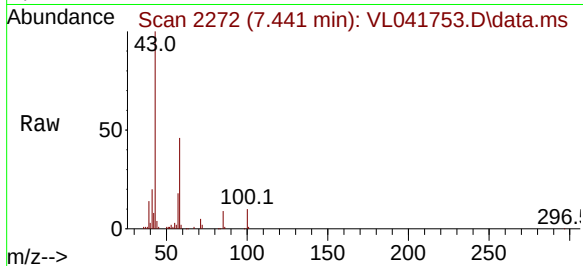




#51
2-Hexanone
Concen: 2.147 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

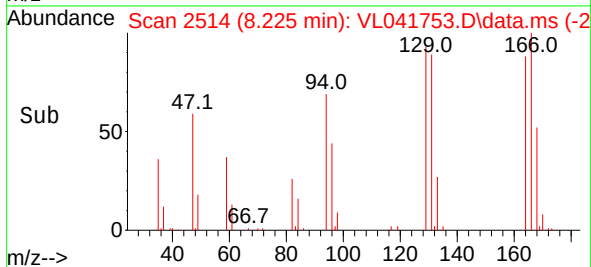
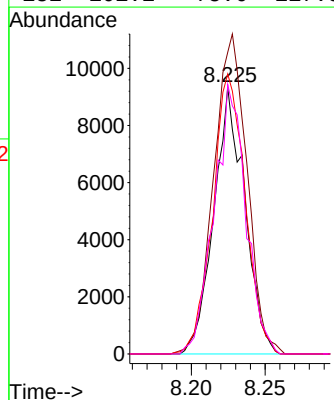
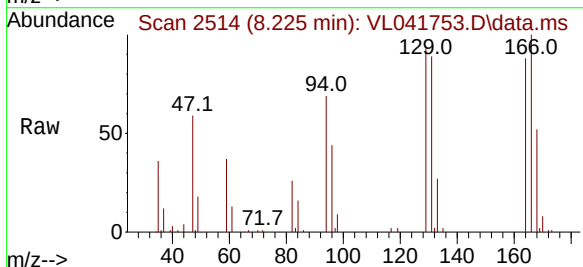
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

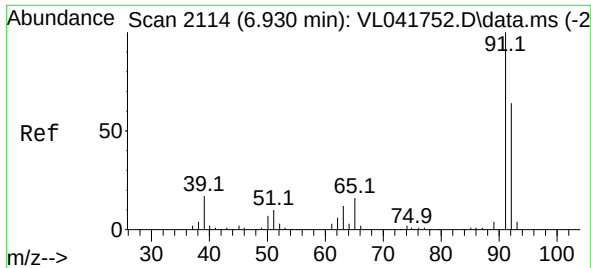
Tgt Ion: 43 Resp: 34878
Ion Ratio Lower Upper
43 100
58 46.8 36.6 55.0
98 0.3 0.1 0.1#



#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 :

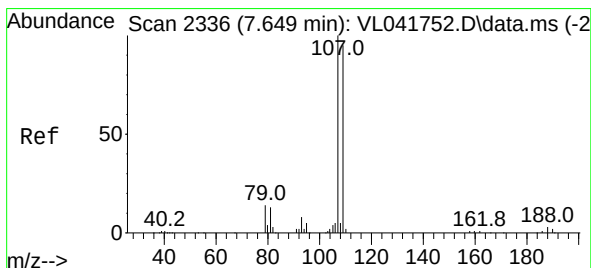
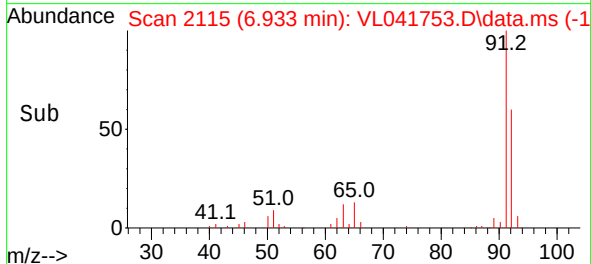
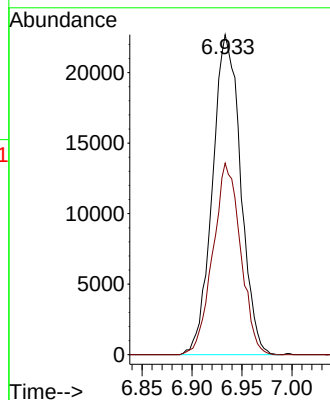
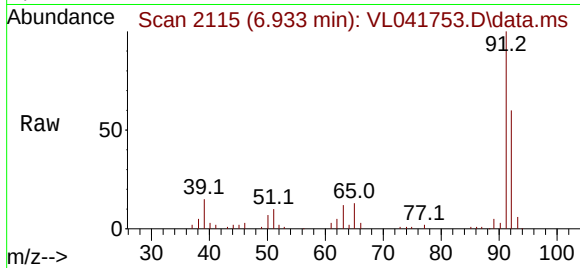
VSTDIC002

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

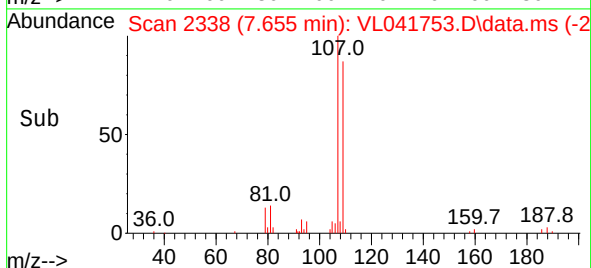
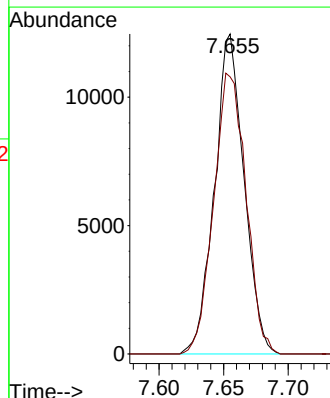
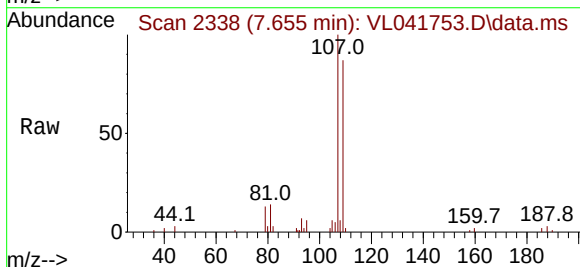
Acq: 16 Dec 2024 14:03

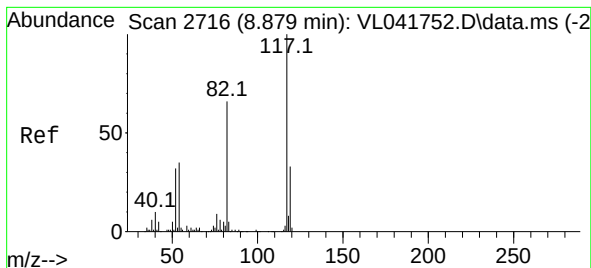
Tgt Ion:107 Resp: 19820

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_L

ClientSampleId :

VSTDICC002

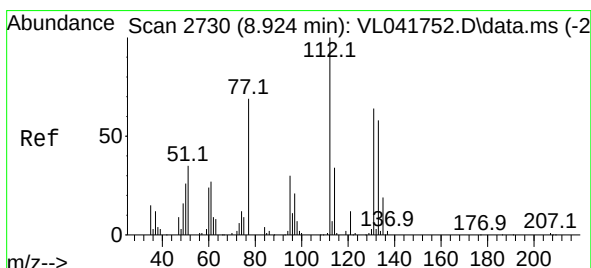
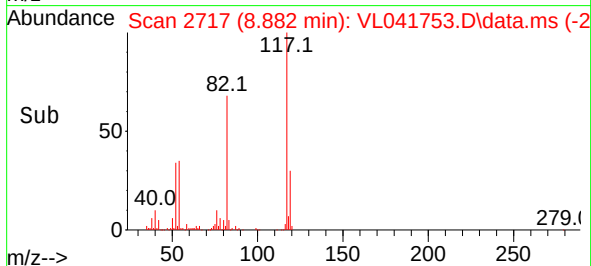
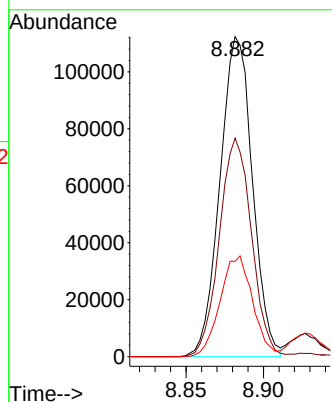
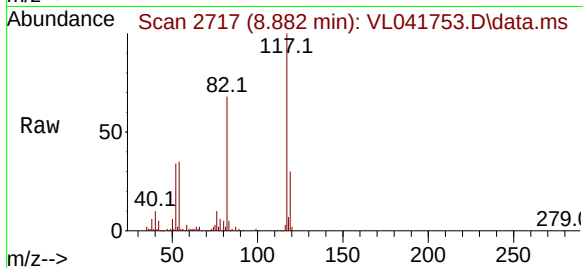
Tgt Ion:117 Resp: 163971

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

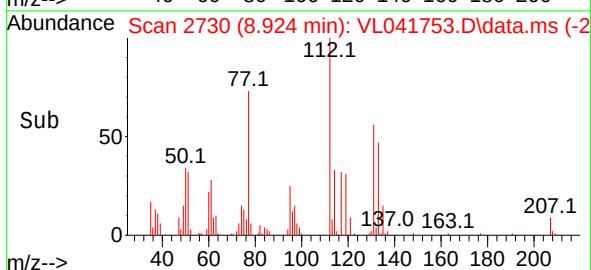
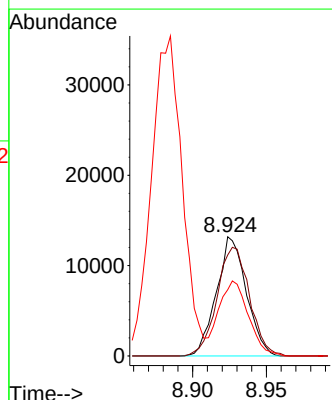
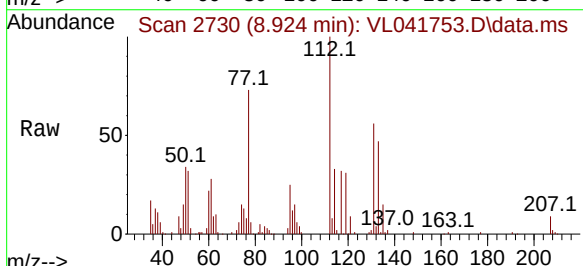
Tgt Ion:131 Resp: 18613

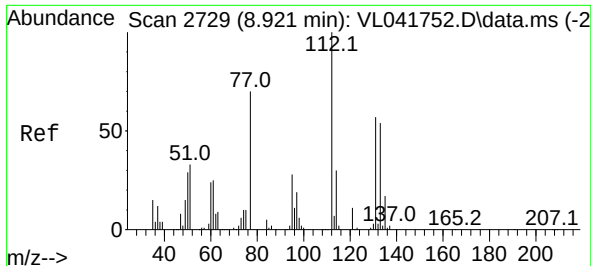
Ion Ratio Lower Upper

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

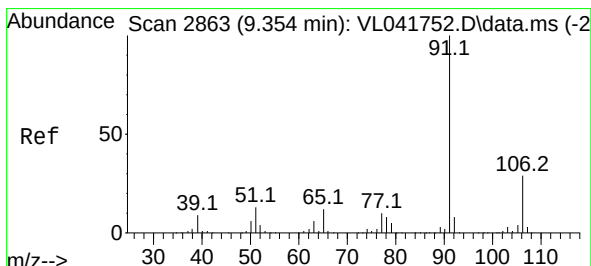
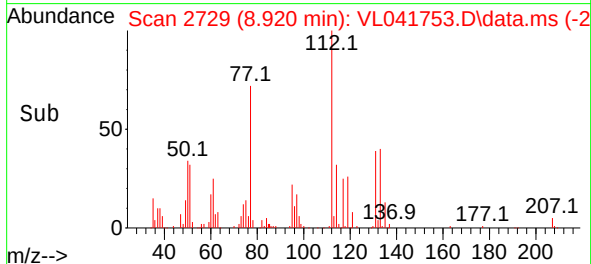
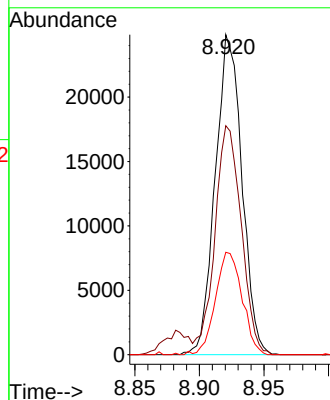
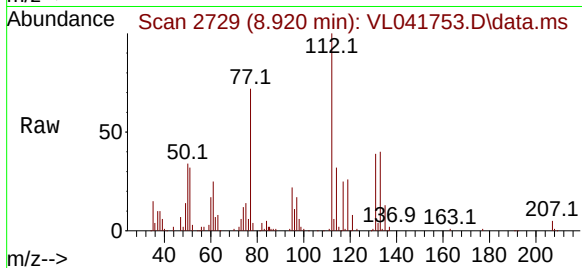
Tgt Ion:112 Resp: 35685

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

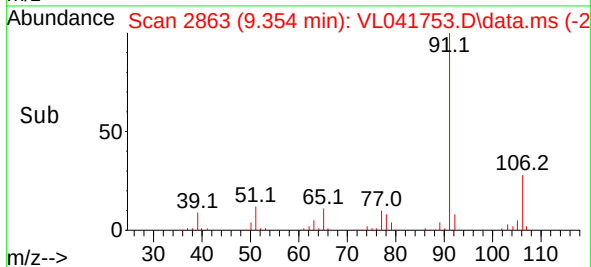
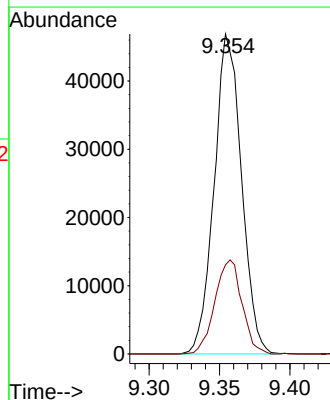
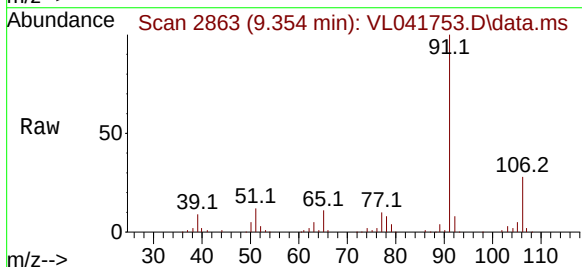
Acq: 16 Dec 2024 14:03

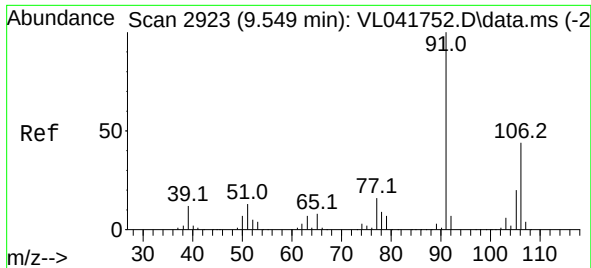
Tgt Ion: 91 Resp: 63316

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 :

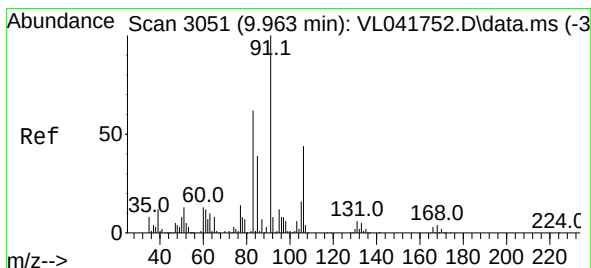
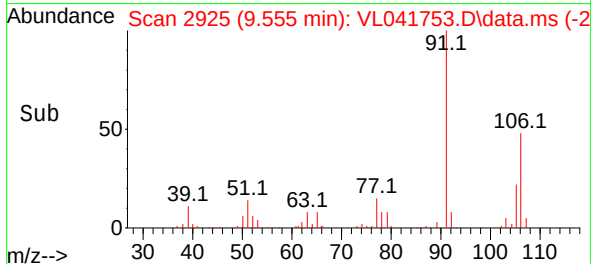
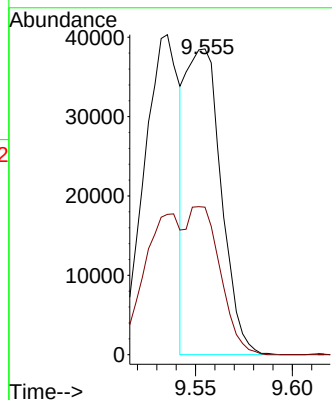
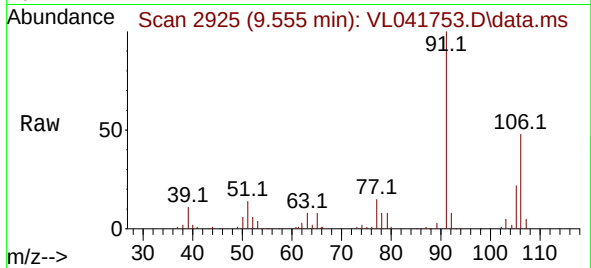
VSTDIC002

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

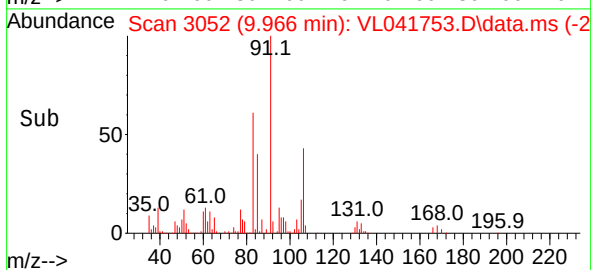
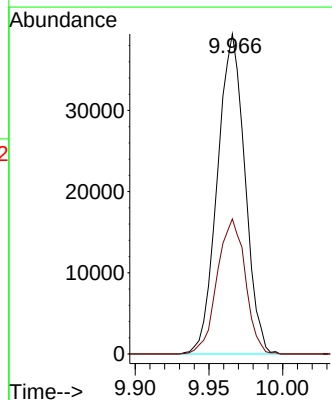
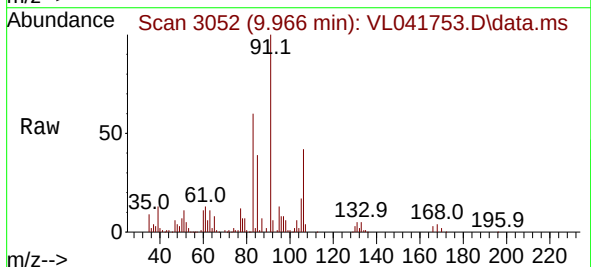
Acq: 16 Dec 2024 14:03

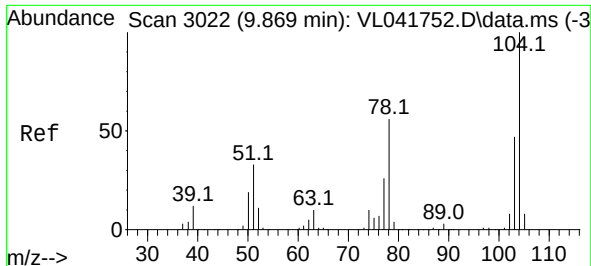
Tgt Ion: 91 Resp: 51152

Ion Ratio Lower Upper

91 100

106 43.1 21.1 63.4

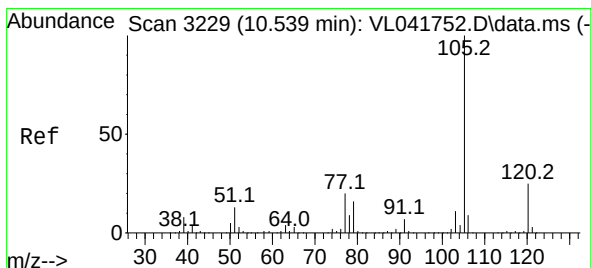
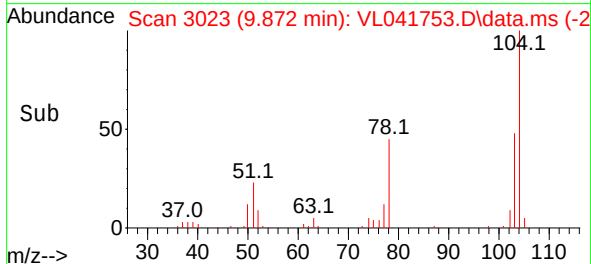
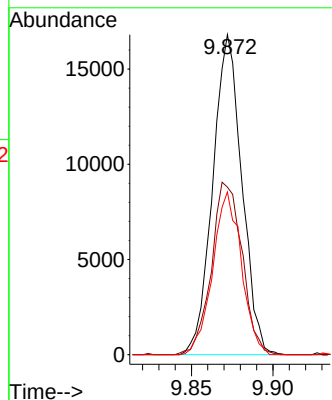
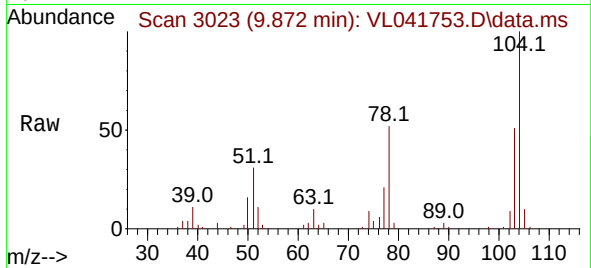




#61
Styrene
Concen: 2.025 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

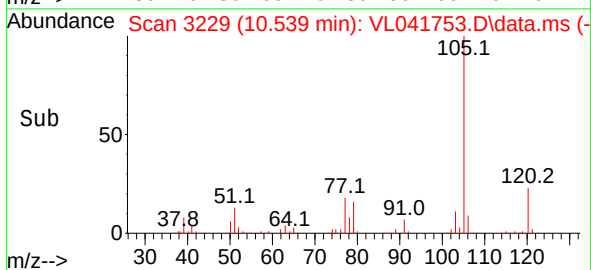
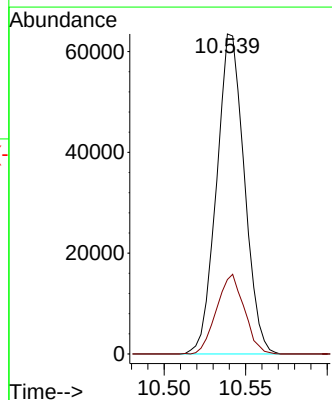
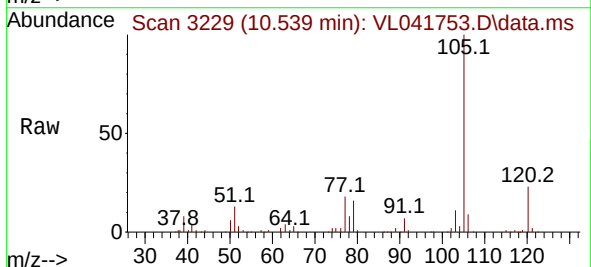
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

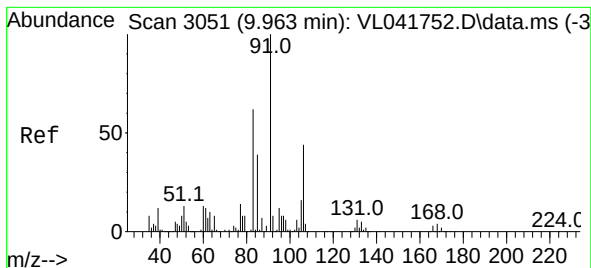
Tgt Ion:104 Resp: 20842
Ion Ratio Lower Upper
104 100
78 56.9 43.8 65.6
103 50.2 37.8 56.6



#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 :

VSTDIC002

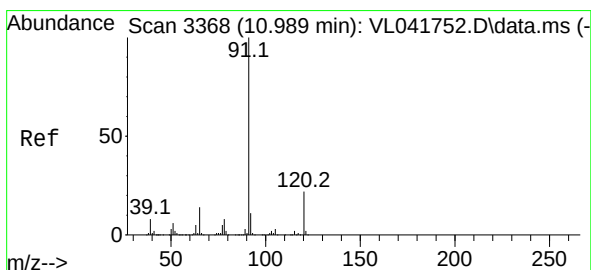
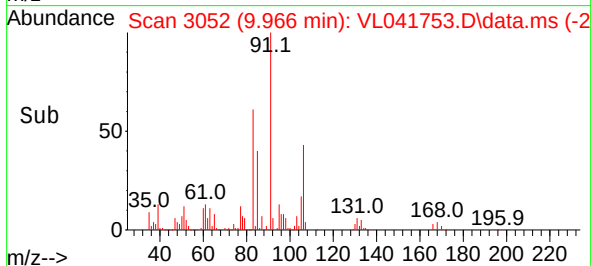
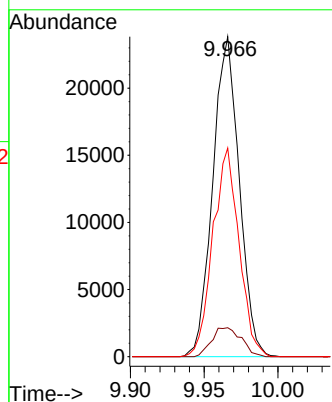
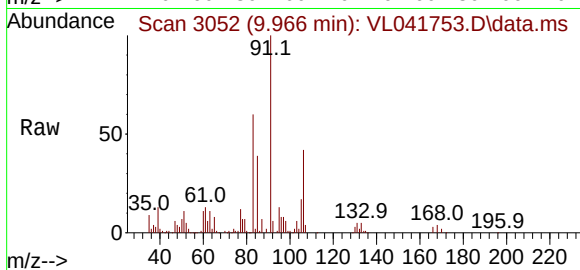
Tgt Ion: 83 Resp: 29751

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

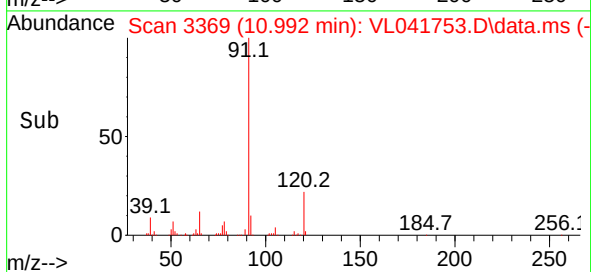
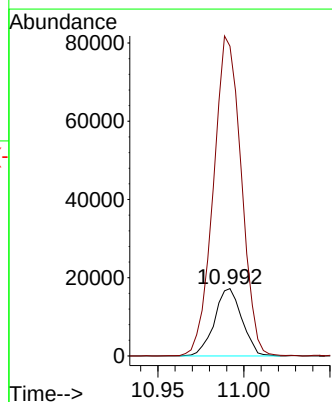
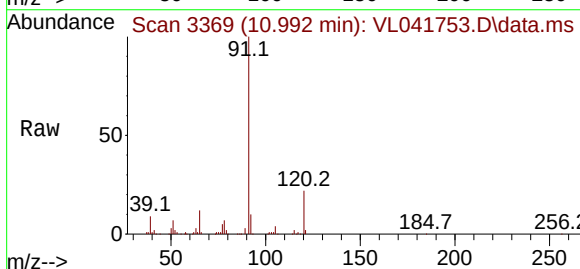
Acq: 16 Dec 2024 14:03

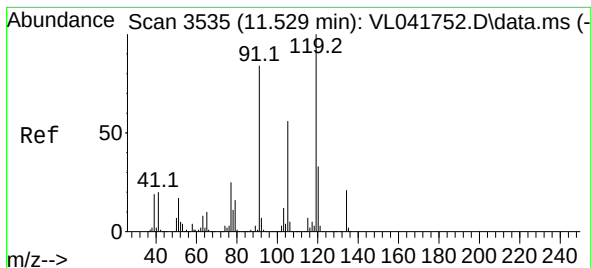
Tgt Ion:120 Resp: 19146

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

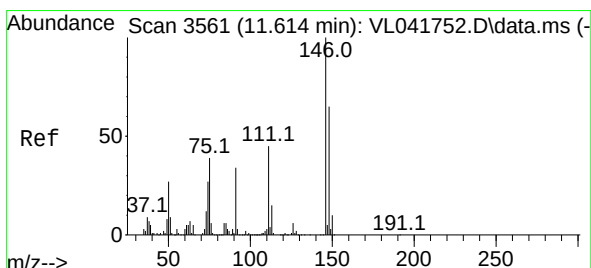
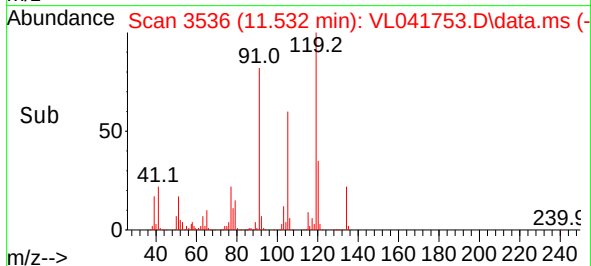
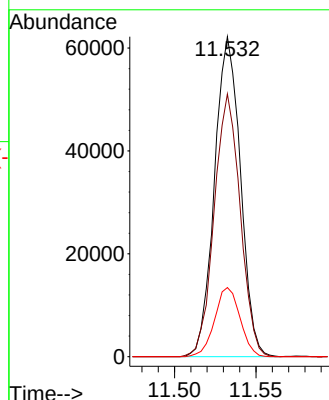
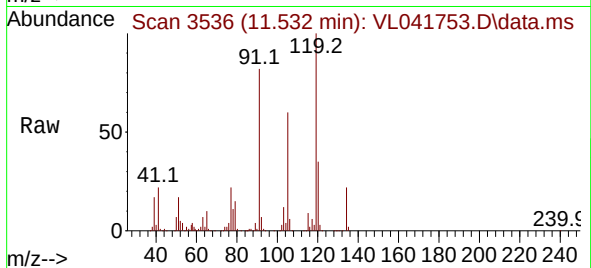
Tgt Ion:119 Resp: 68879

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

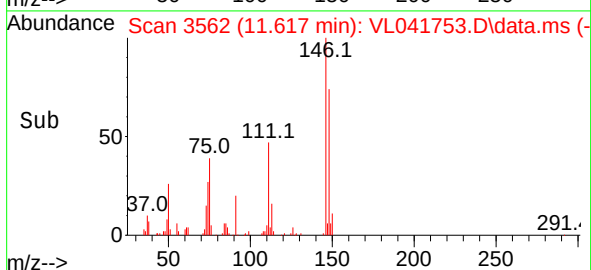
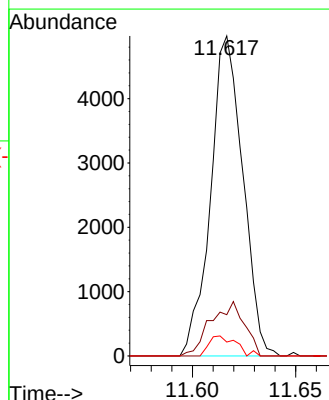
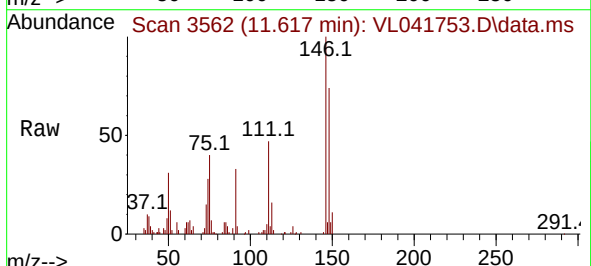
Tgt Ion: 91 Resp: 5400

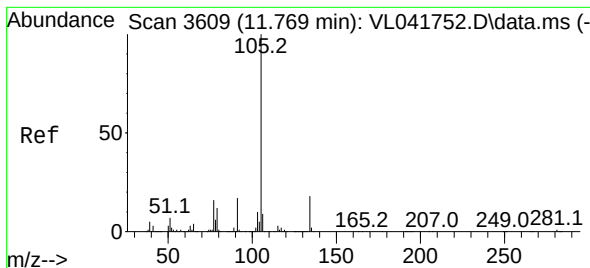
Ion Ratio Lower Upper

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 :

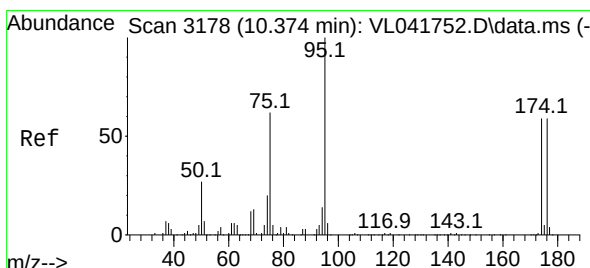
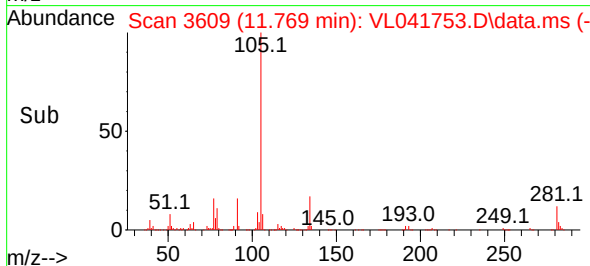
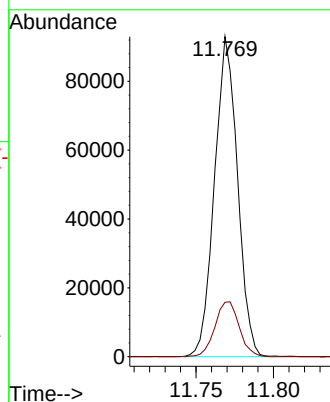
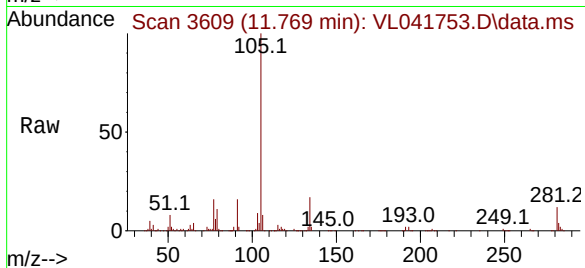
VSTDICC002

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

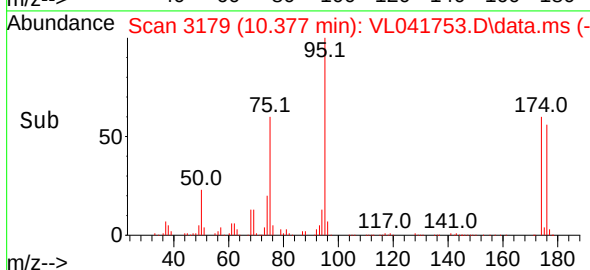
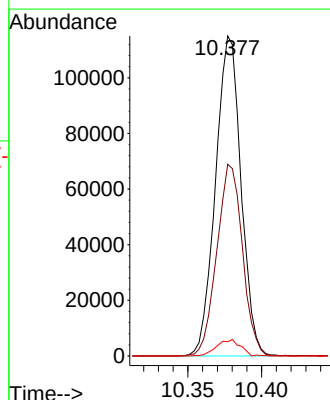
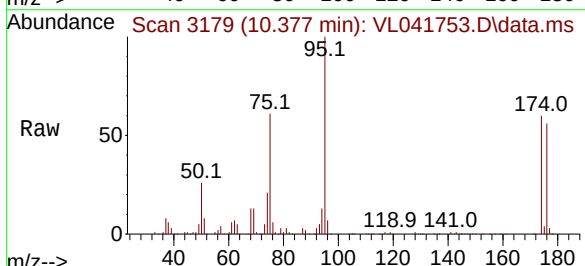
Tgt Ion: 95 Resp: 138312

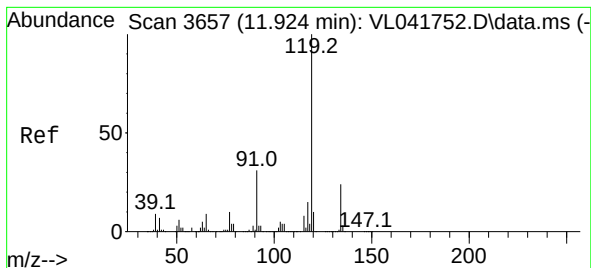
Ion Ratio Lower Upper

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

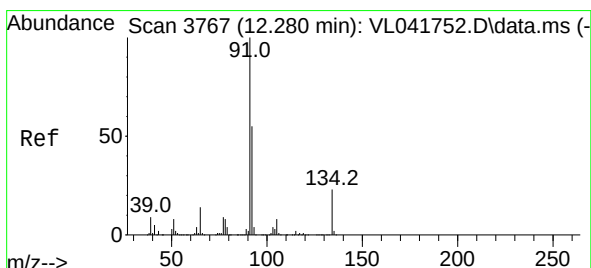
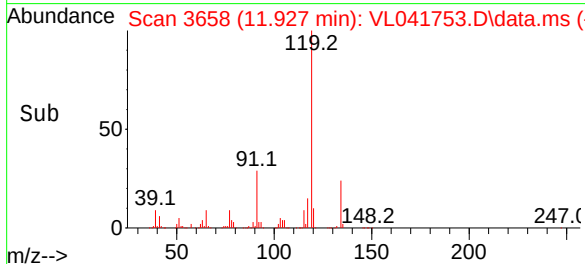
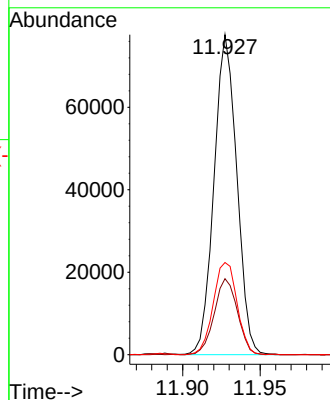
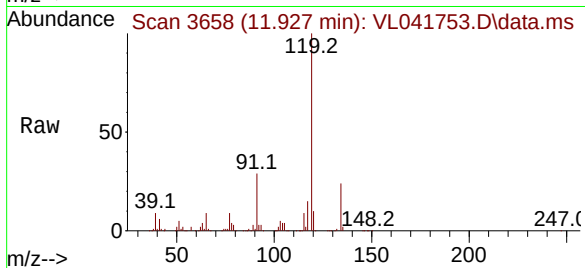
Tgt Ion:119 Resp: 79236

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

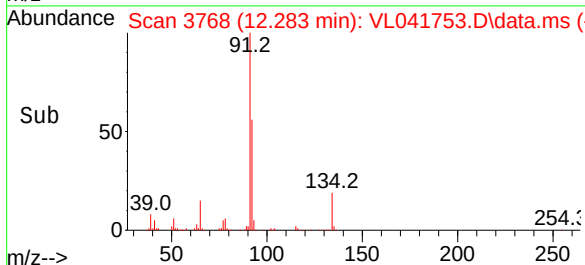
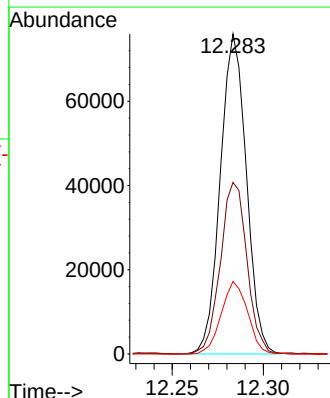
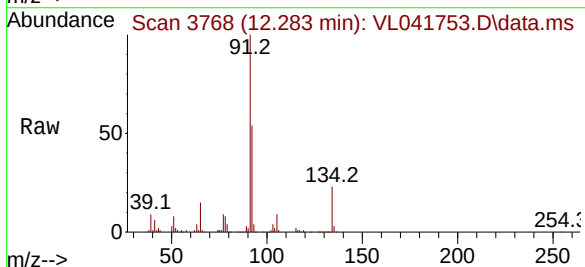
Tgt Ion: 91 Resp: 75430

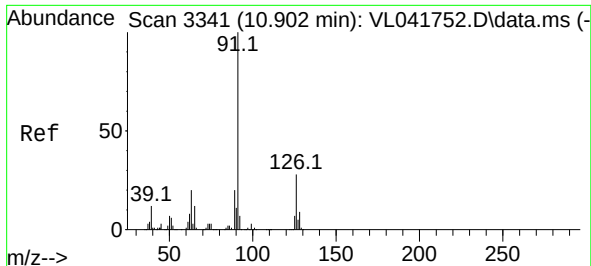
Ion Ratio Lower Upper

91 100

92 54.7 43.2 64.8

134 23.0 18.2 27.4

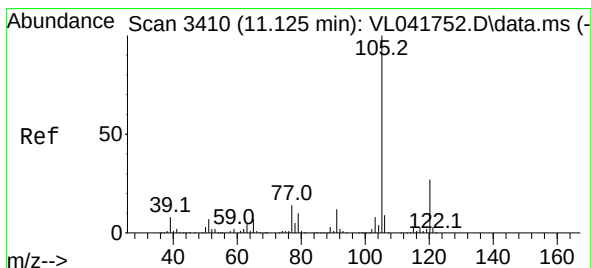
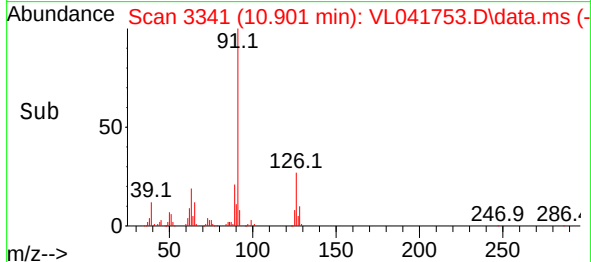
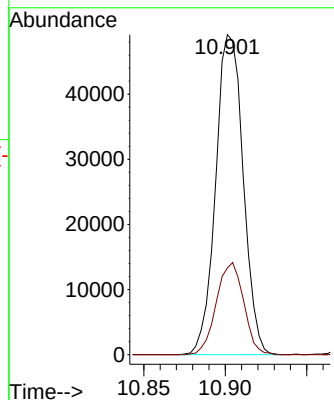
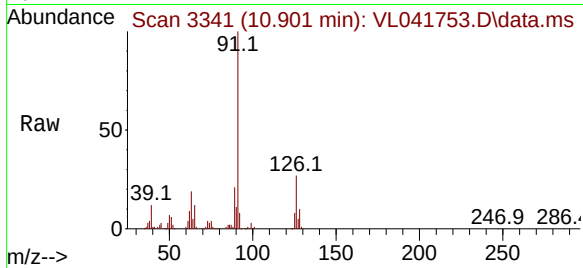




#71
2-Chlorotoluene
Concen: 2.114 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

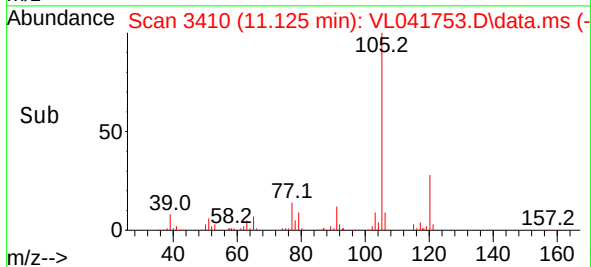
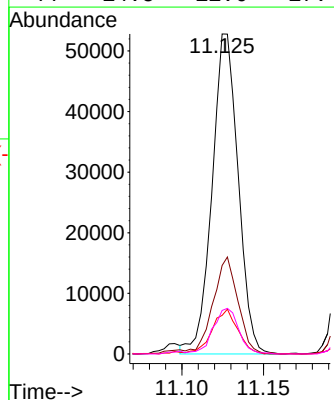
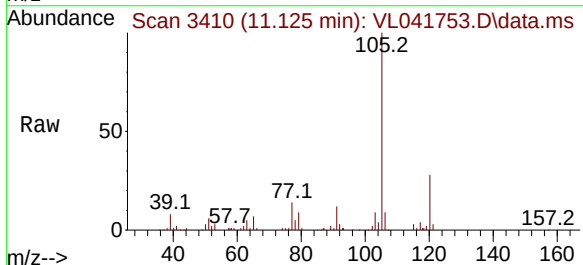
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

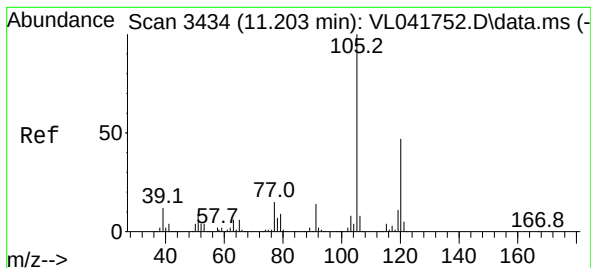
Tgt Ion: 91 Resp: 57724
Ion Ratio Lower Upper
91 100
126 28.5 11.6 46.4



#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 :

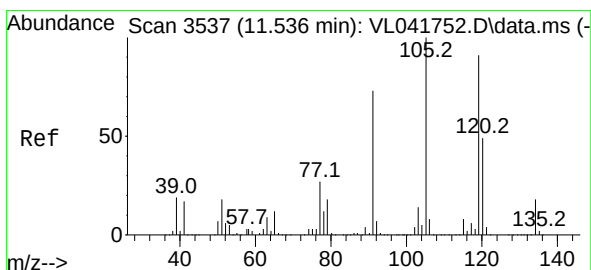
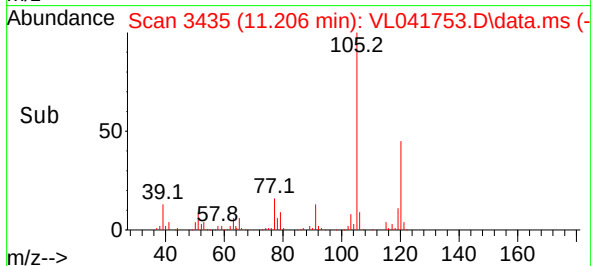
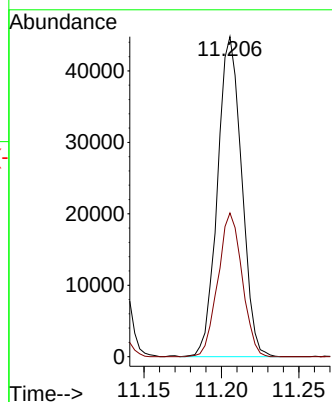
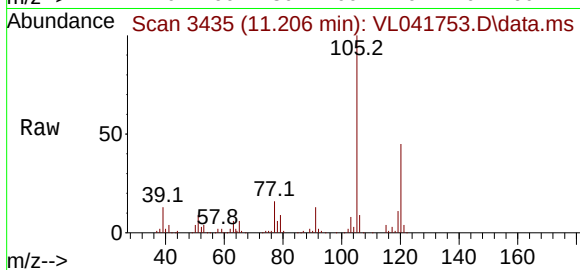
VSTDIC002

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

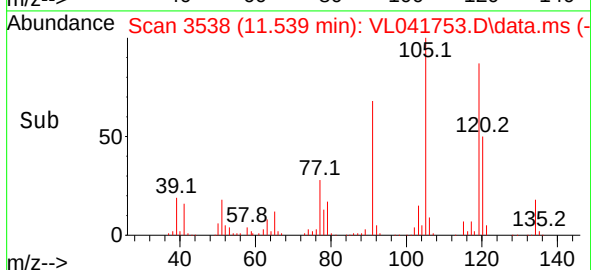
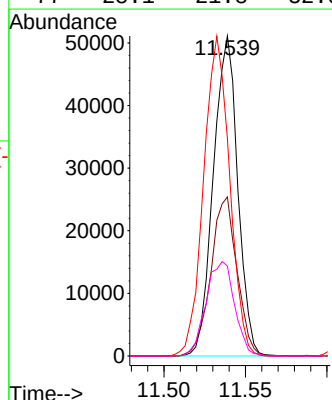
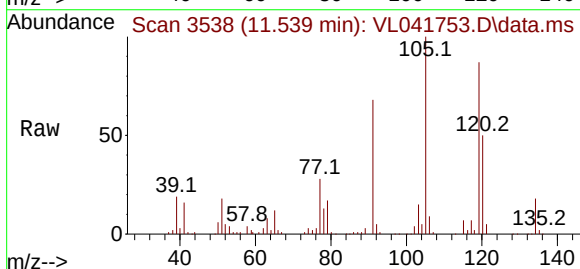
Ion Ratio Lower Upper

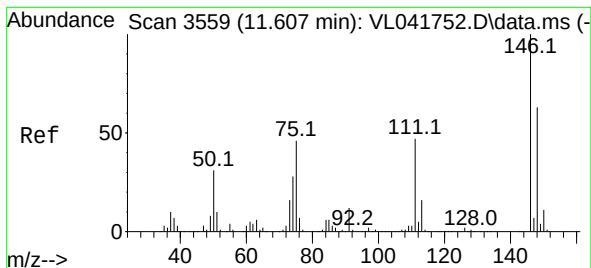
105 100

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

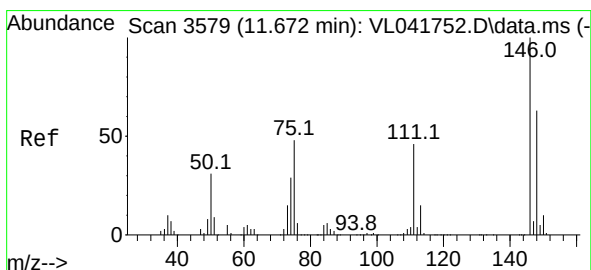
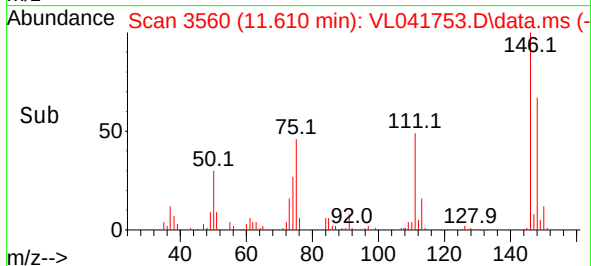
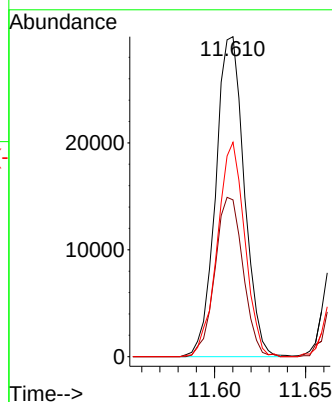
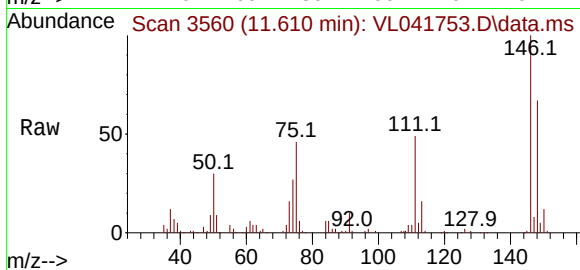
Tgt Ion:146 Resp: 32609

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

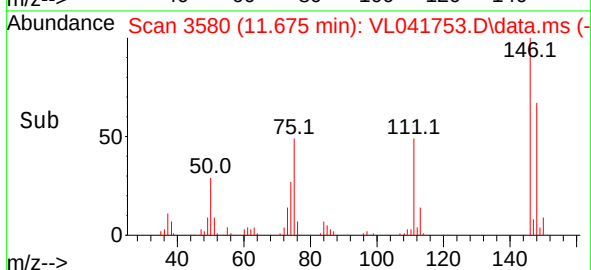
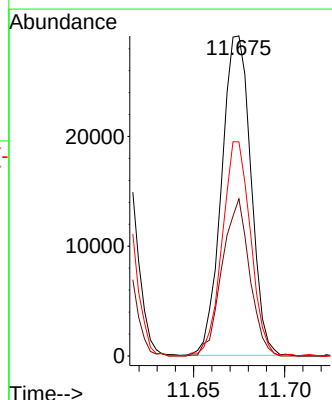
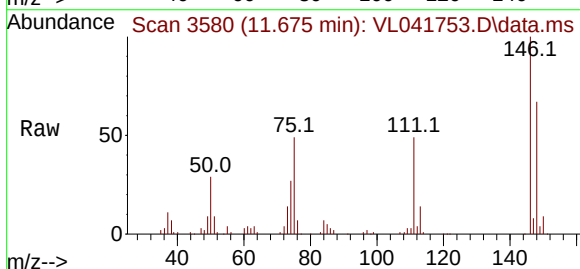
Tgt Ion:146 Resp: 32527

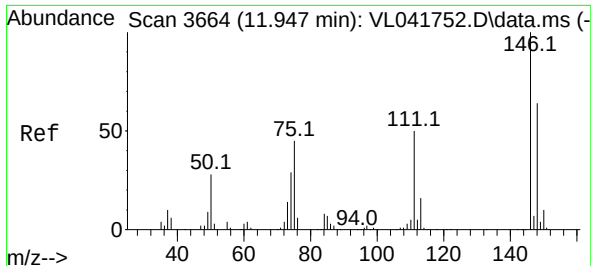
Ion Ratio Lower Upper

146 100

111 46.1 22.7 68.1

148 65.1 31.4 94.0

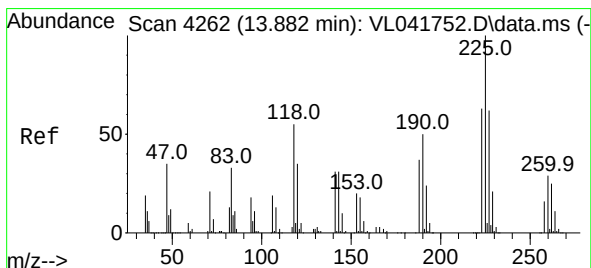
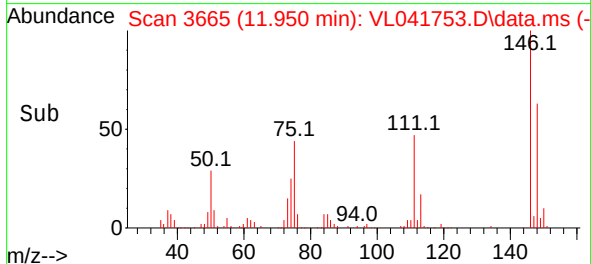
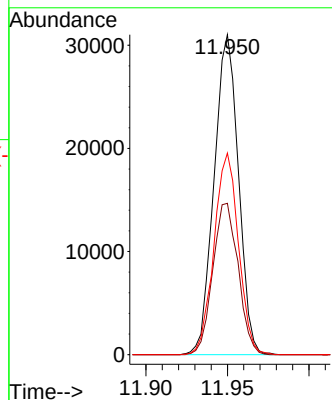
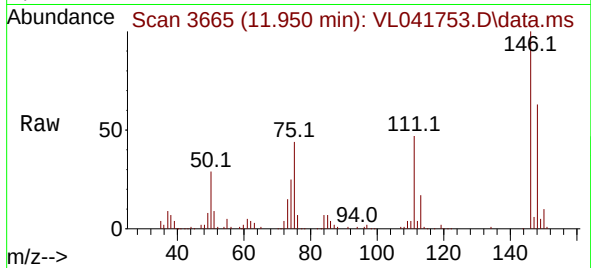




#77
1,2-Dichlorobenzene
Concen: 2.095 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041753.D
Acq: 16 Dec 2024 14:03

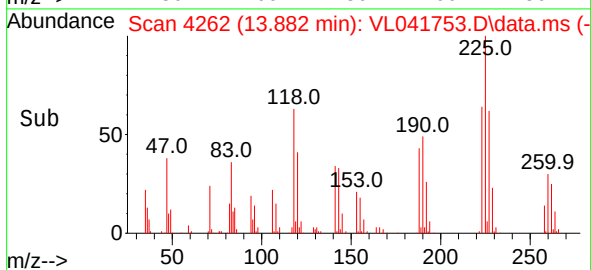
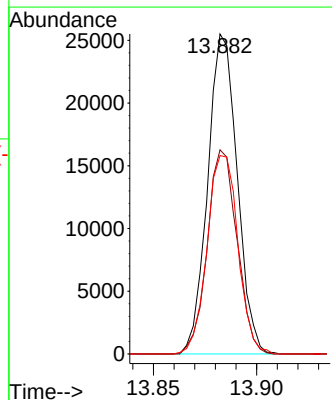
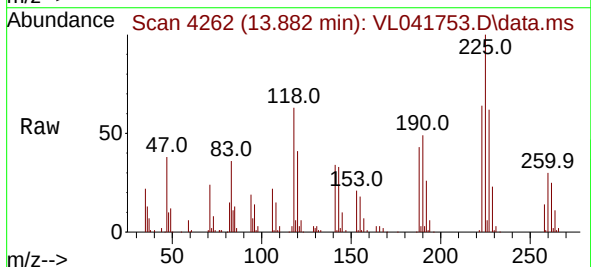
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

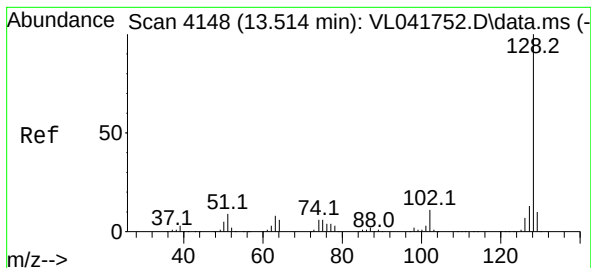
Tgt Ion:146 Resp: 32223
Ion Ratio Lower Upper
146 100
111 49.2 24.8 74.3
148 63.3 31.8 95.4



#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 :

VSTDICC002

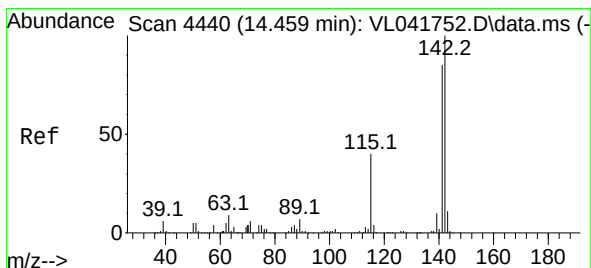
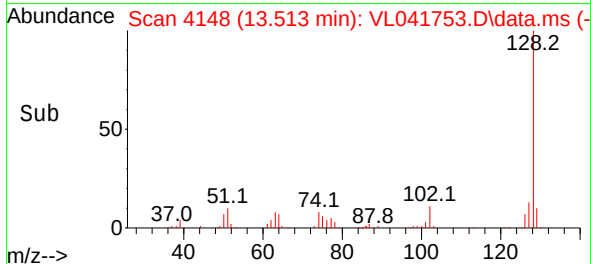
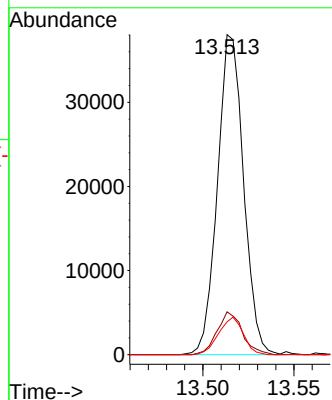
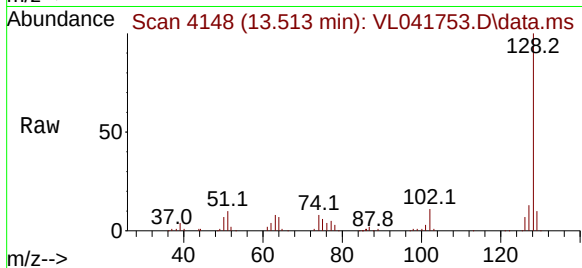
Tgt Ion:128 Resp: 37855

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

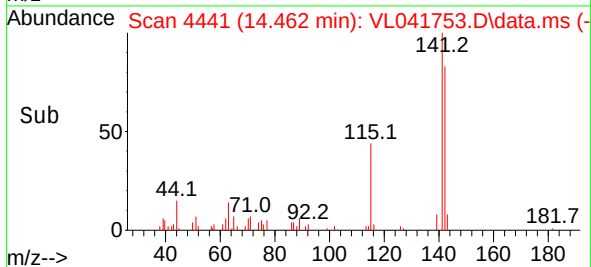
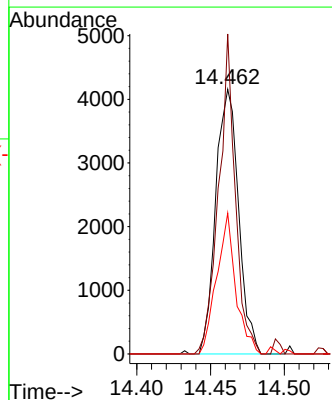
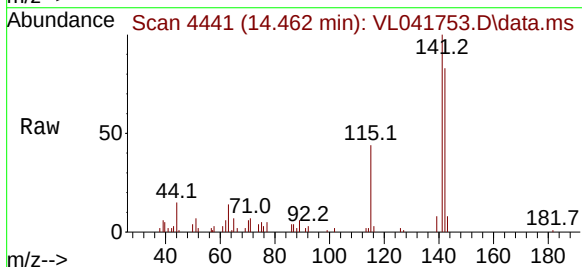
Tgt Ion:142 Resp: 4482

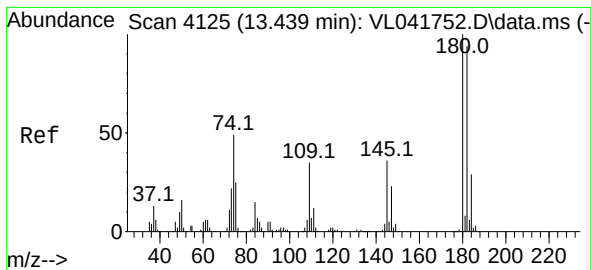
Ion Ratio Lower Upper

142 100

141 90.1 68.4 102.6

115 45.4 32.5 48.7

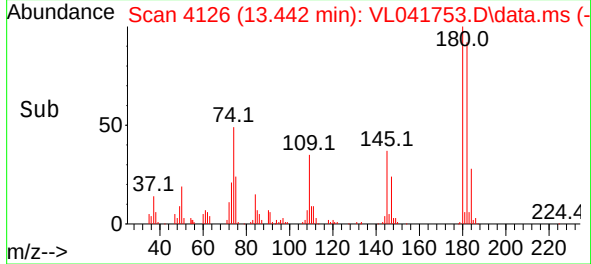
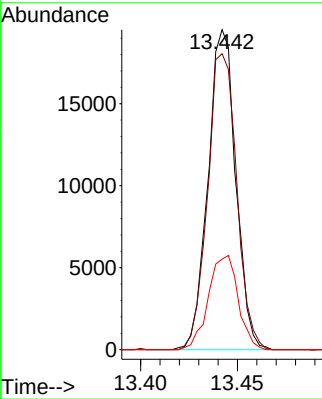
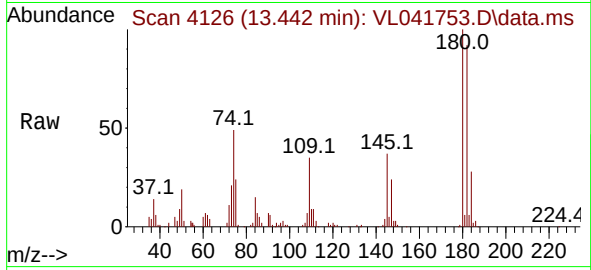




#81
 1,2,4-Trichlorobenzene
 Concen: 2.035 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041753.D
 Acq: 16 Dec 2024 14:03

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

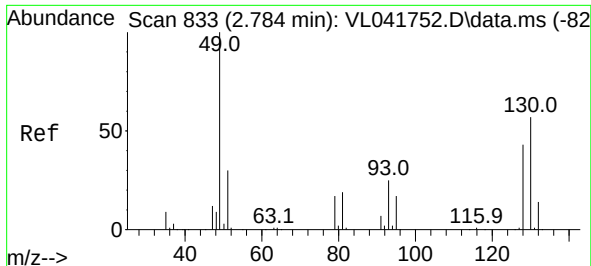
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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 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

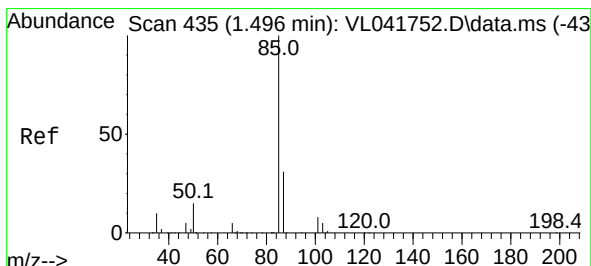
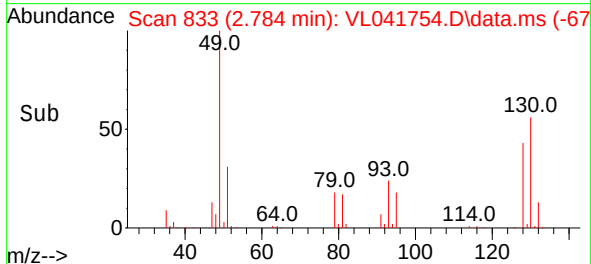
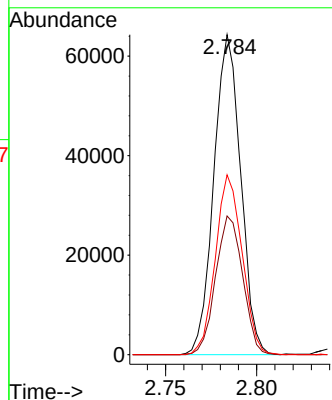
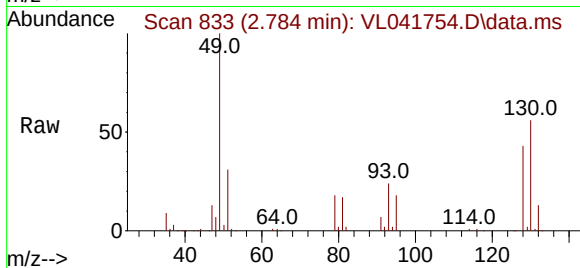
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

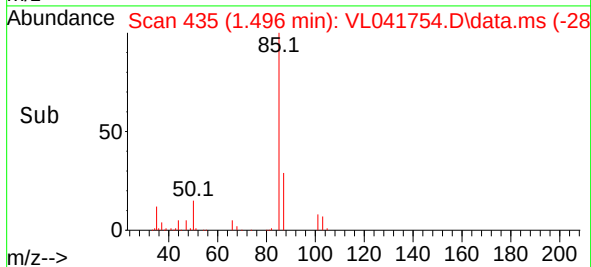
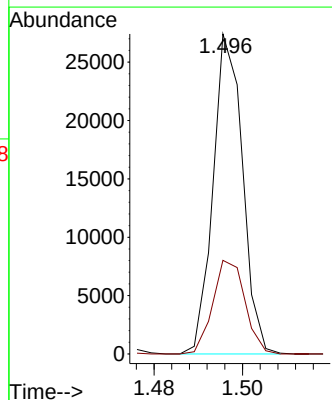
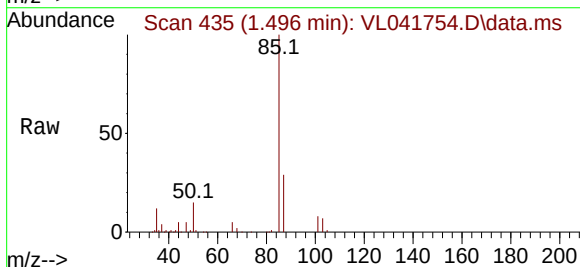
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

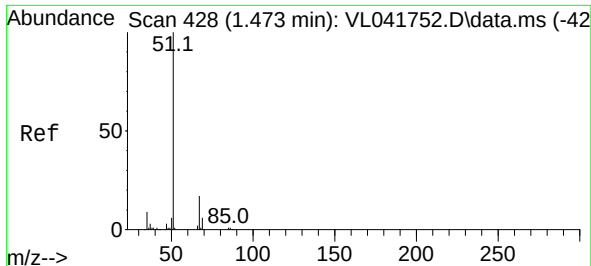
Tgt Ion: 49 Resp: 65928
Ion Ratio Lower Upper
49 100
128 43.6 21.6 64.6
130 56.0 28.3 85.0



#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

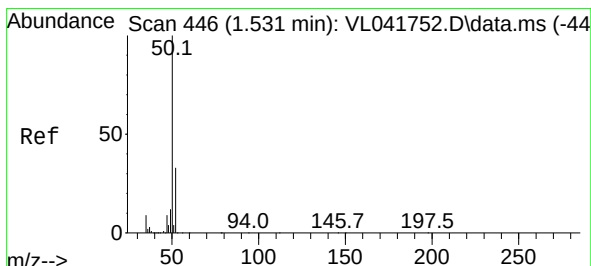
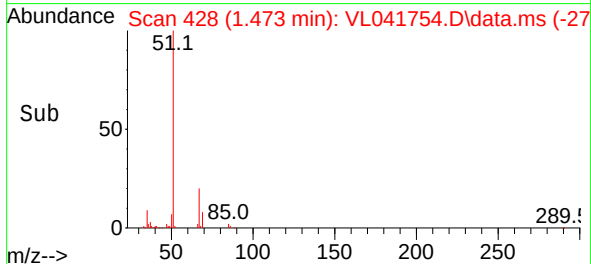
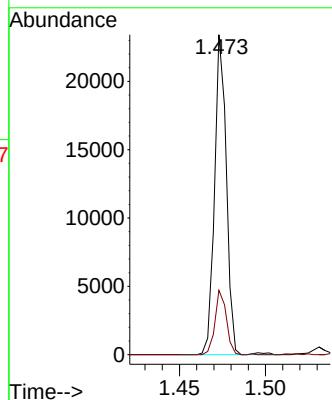
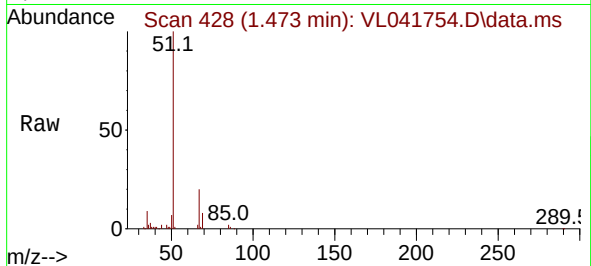




#3
Chlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

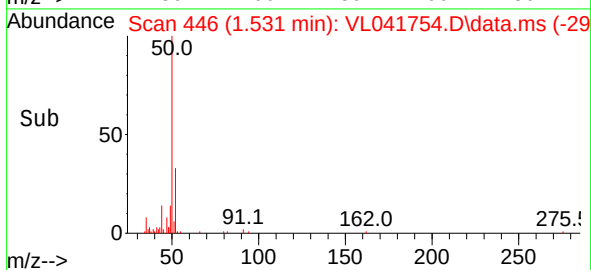
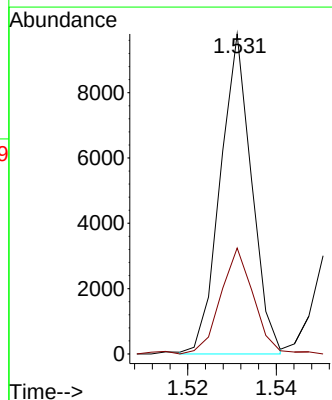
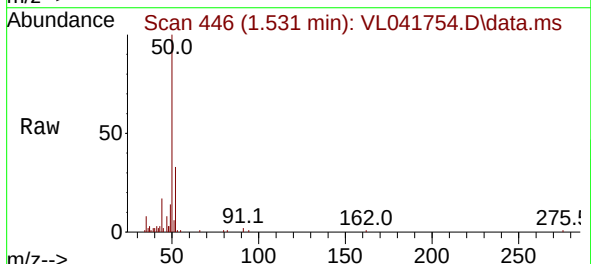
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

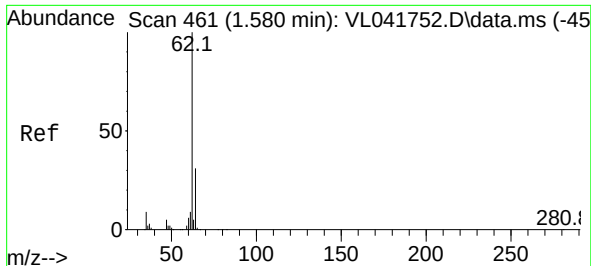
Tgt Ion: 51 Resp: 11187
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.4



#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

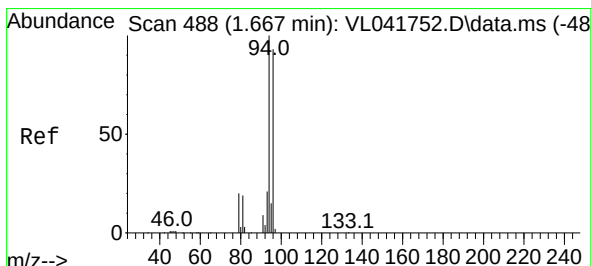
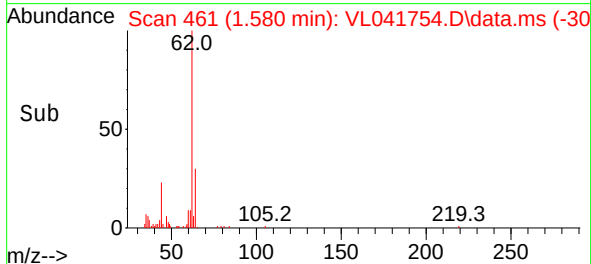
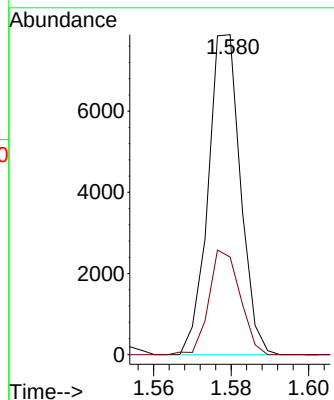
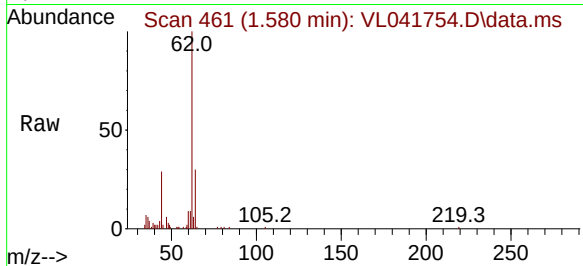




#5
 Vinyl Chloride
 Concen: 0.990 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

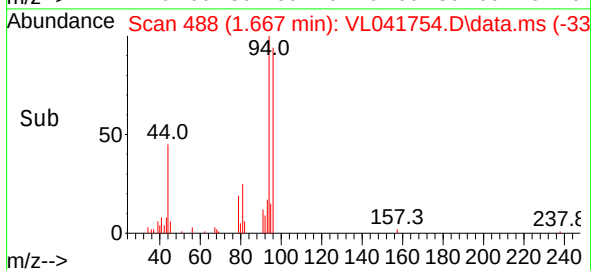
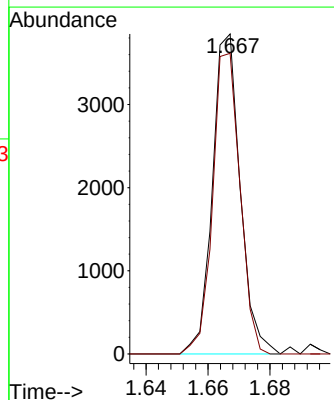
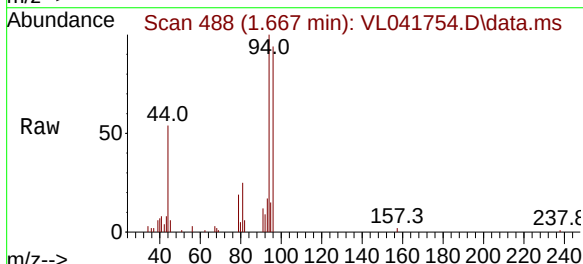
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

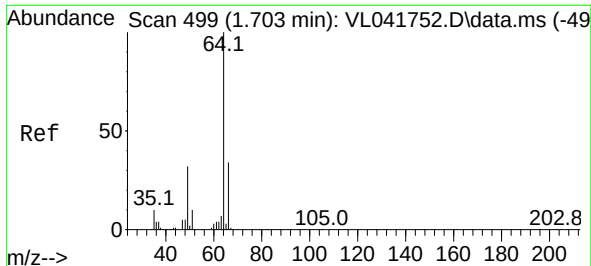
Tgt Ion: 62 Resp: 4580
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.1 37.7



#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

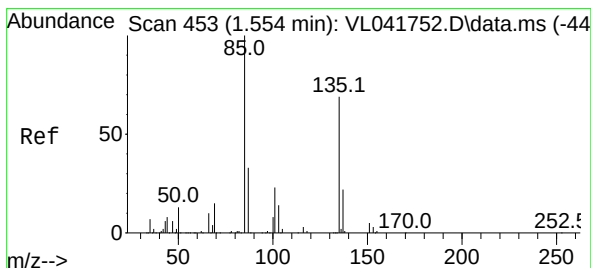
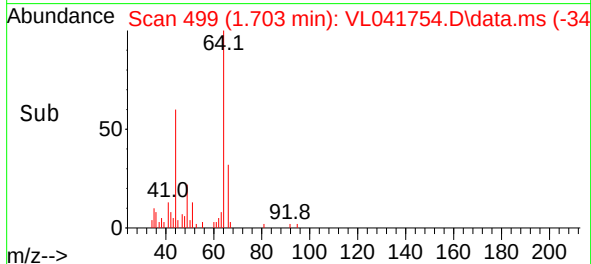
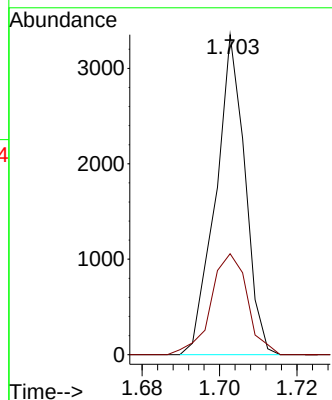
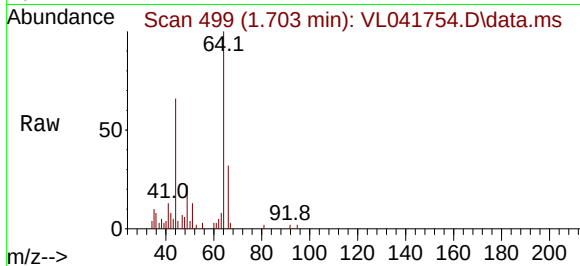




#7
Chloroethane
Concen: 0.981 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

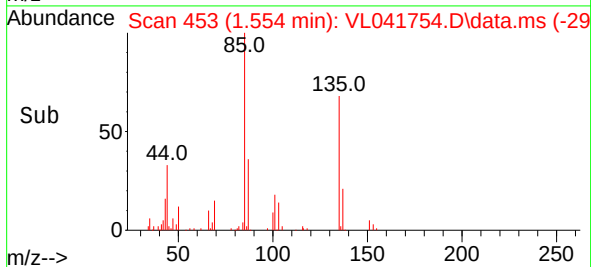
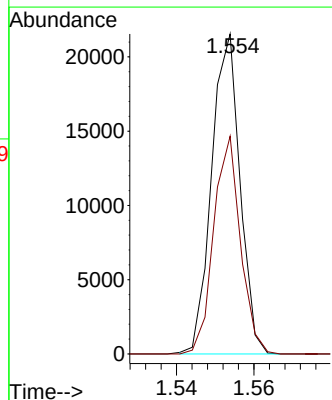
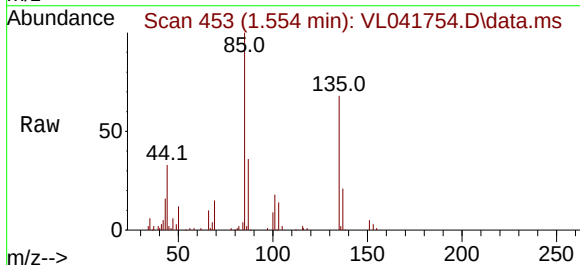
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

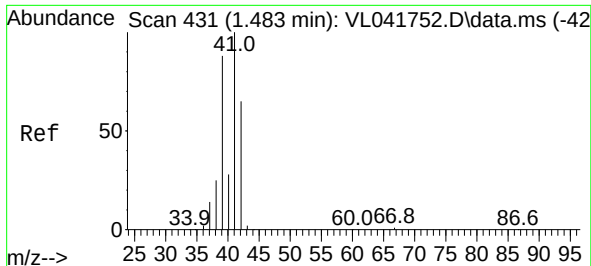
Tgt Ion: 64 Resp: 1763
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3



#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_L

ClientSampleId :

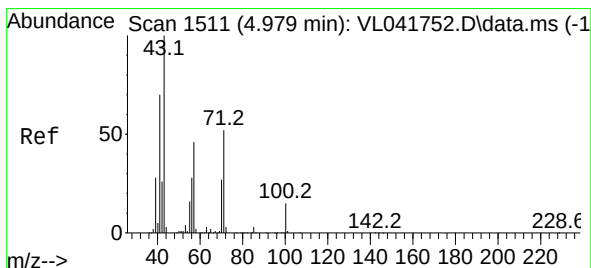
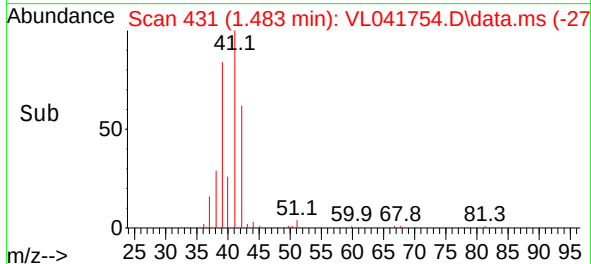
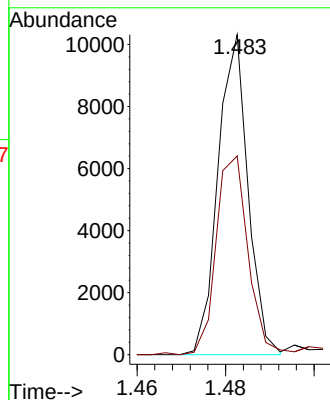
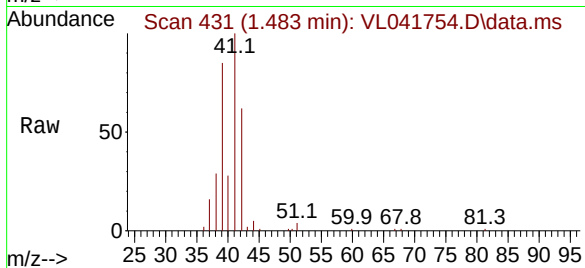
VSTDIC001

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

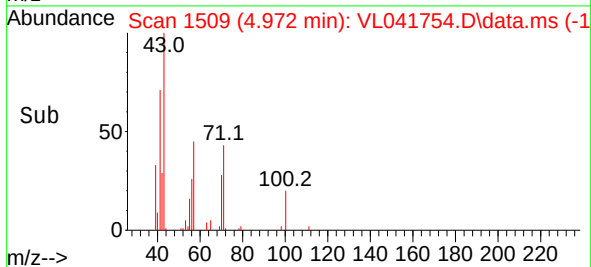
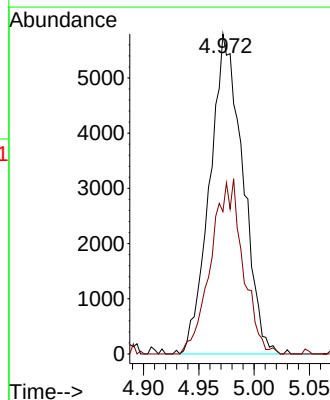
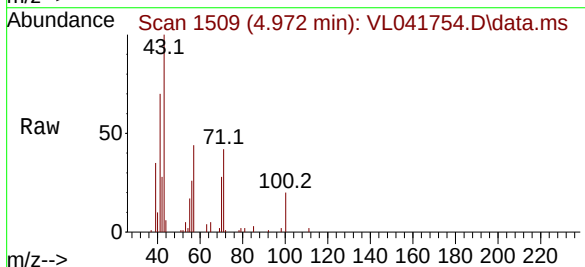
Acq: 16 Dec 2024 14:34

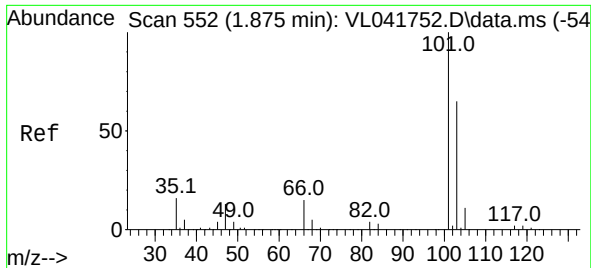
Tgt Ion: 43 Resp: 12004

Ion Ratio Lower Upper

43 100

57 53.0 38.5 57.7

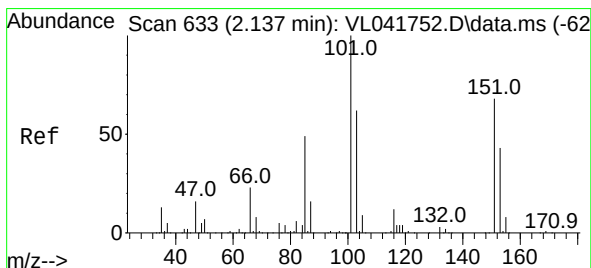
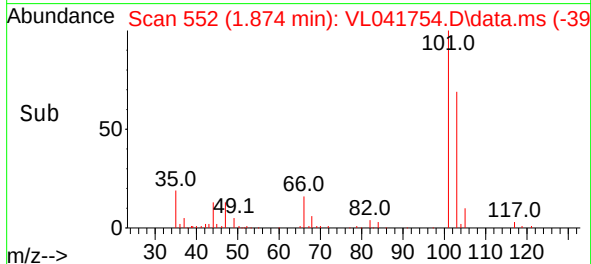
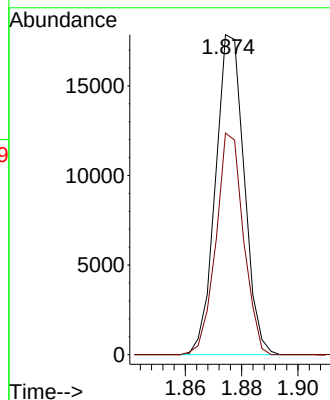
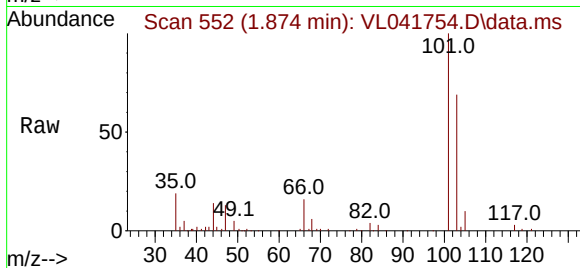




#11
 Trichlorofluoromethane
 Concen: 1.013 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

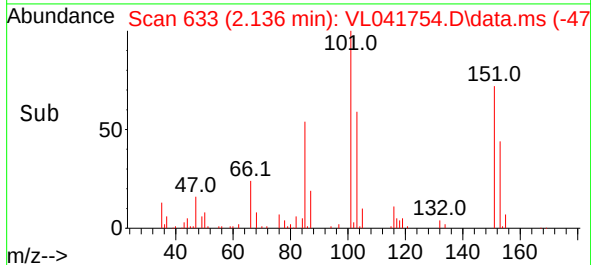
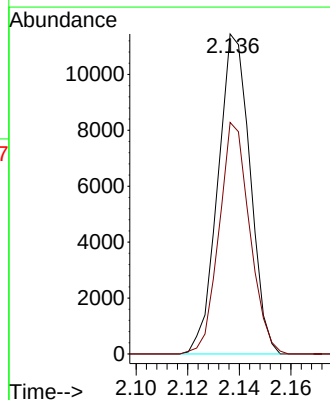
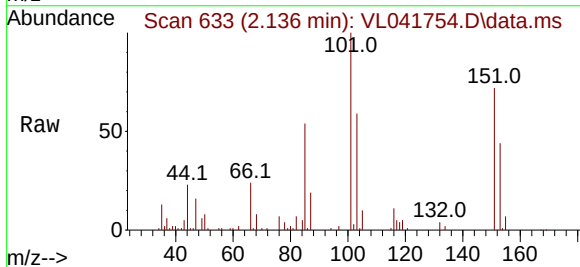
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

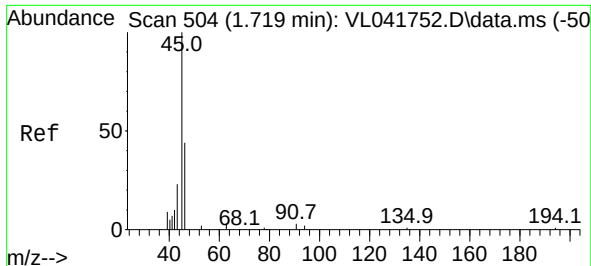
Tgt Ion:101 Resp: 12625
 Ion Ratio Lower Upper
 101 100
 103 69.3 51.8 77.8



#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 :

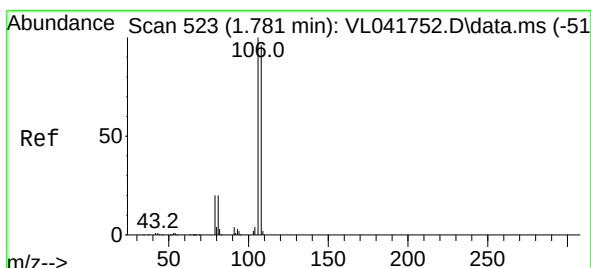
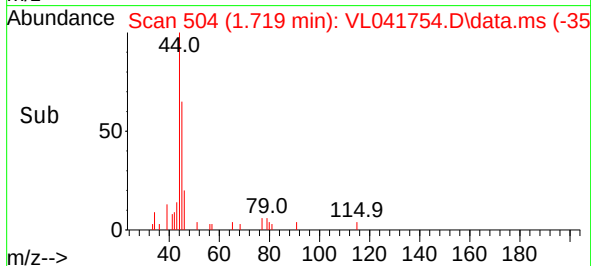
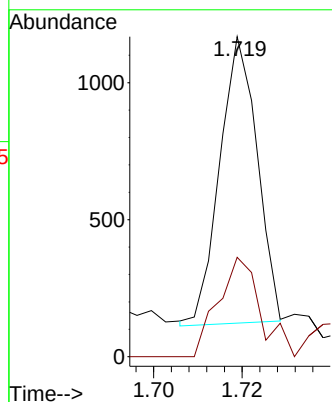
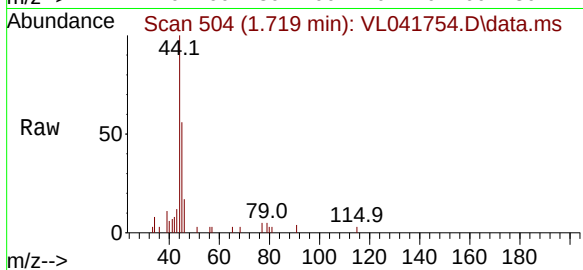
VSTDIC001

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

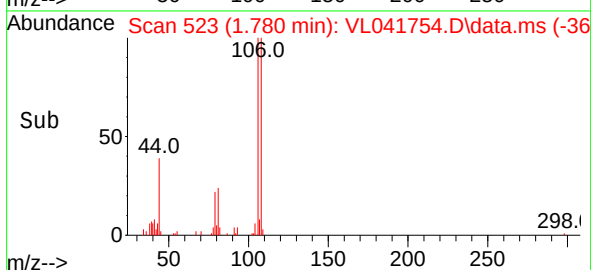
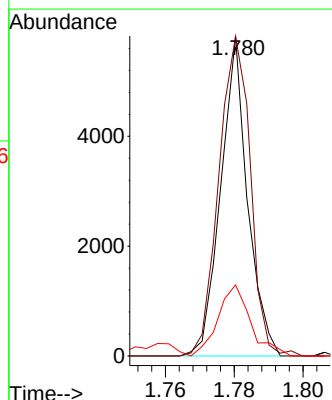
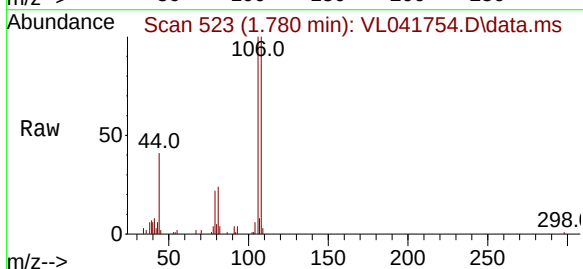
Tgt Ion: 108 Resp: 3148

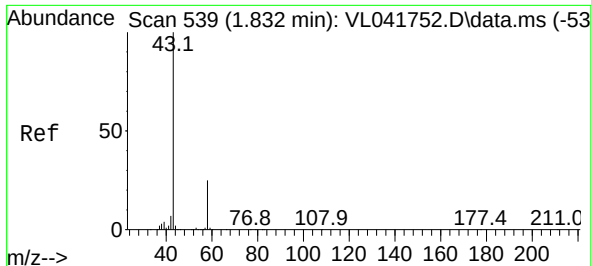
Ion Ratio Lower Upper

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 :

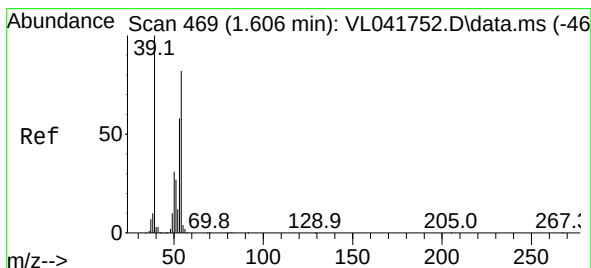
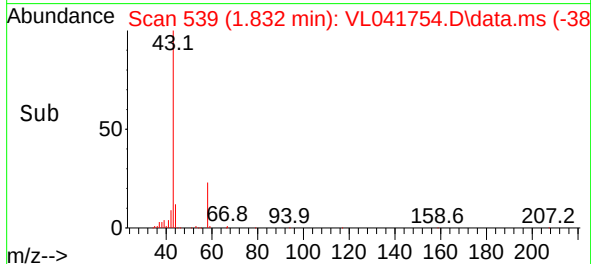
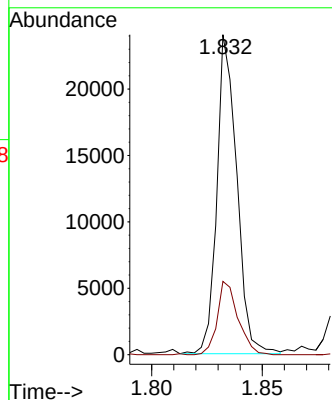
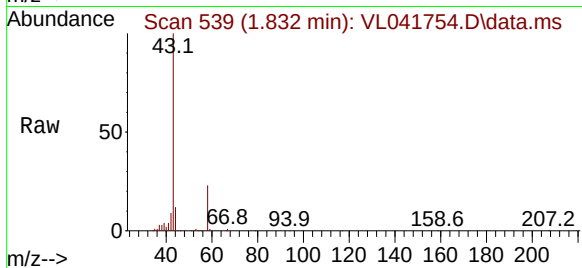
VSTDICC001

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

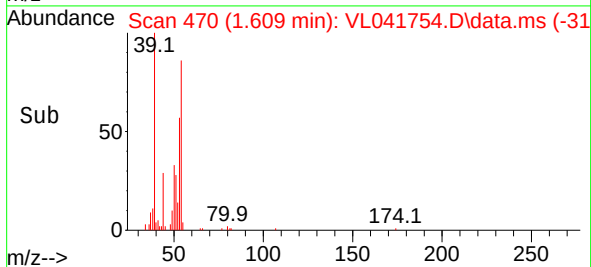
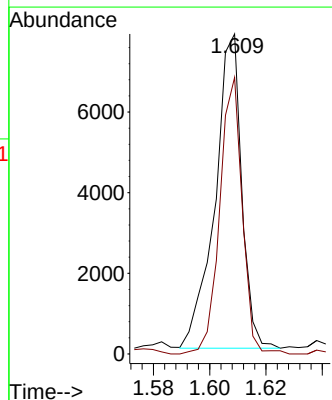
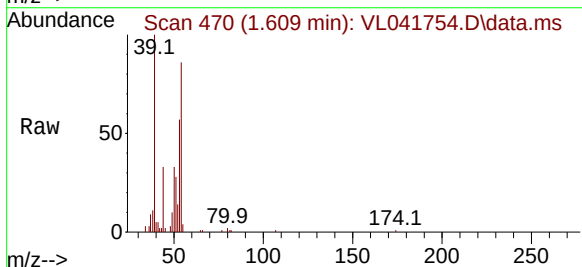
Acq: 16 Dec 2024 14:34

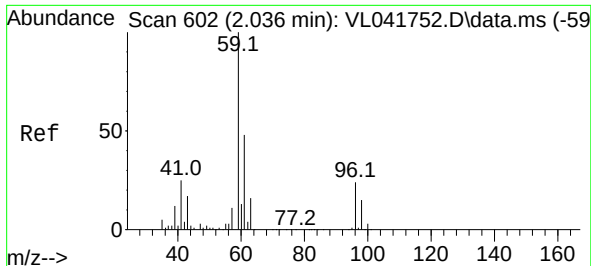
Tgt Ion: 39 Resp: 5137

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 :

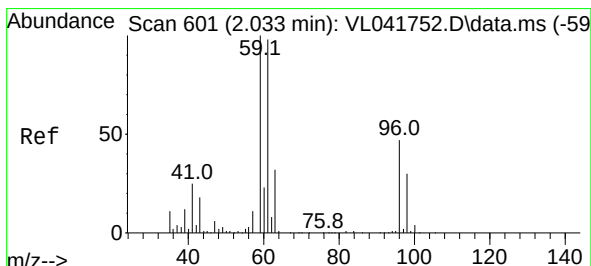
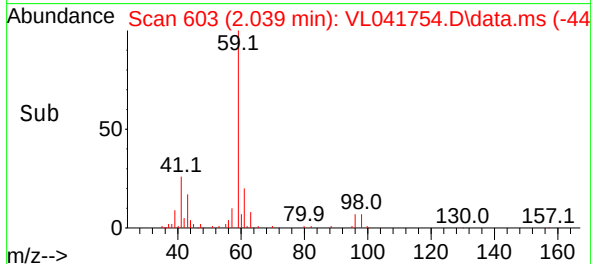
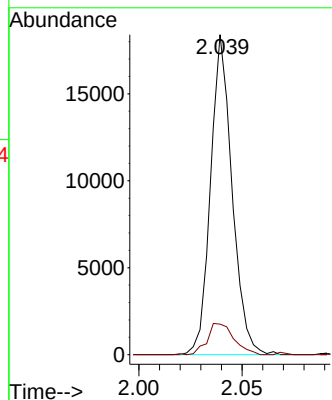
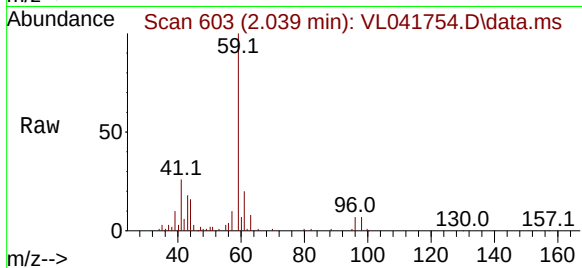
VSTDIC001

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

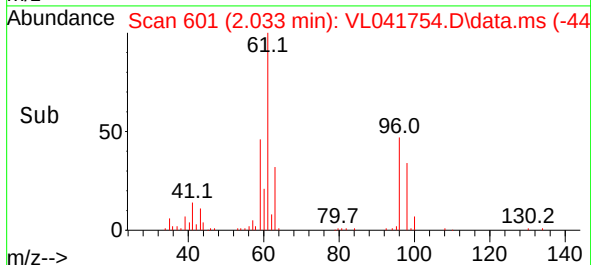
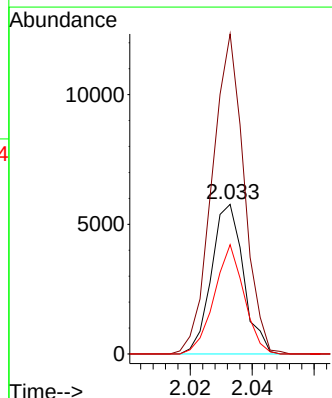
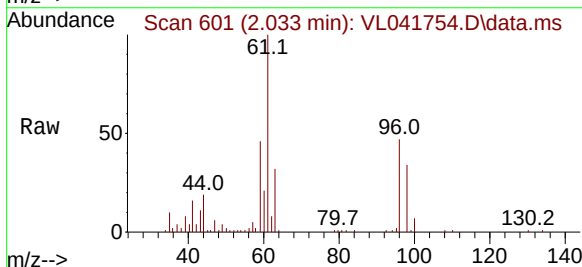
Tgt Ion: 96 Resp: 4139

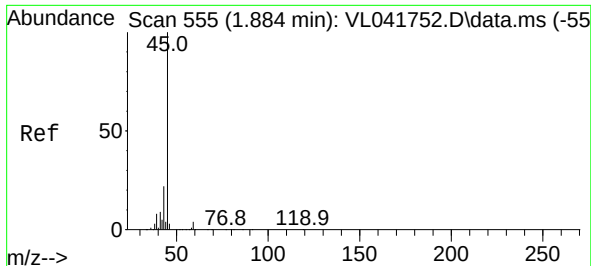
Ion Ratio Lower Upper

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 :

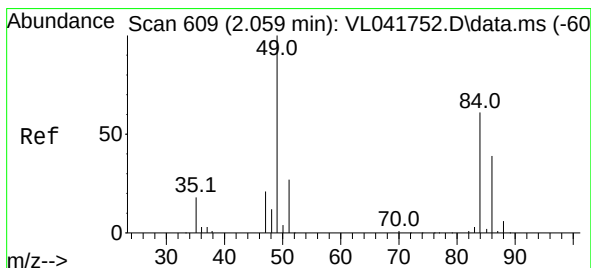
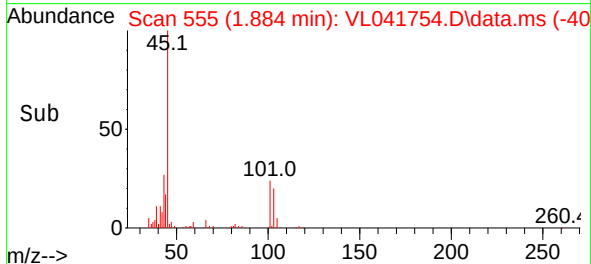
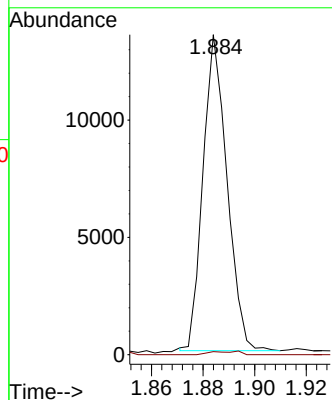
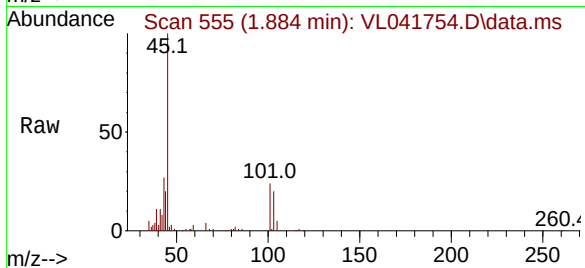
VSTDIC001

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

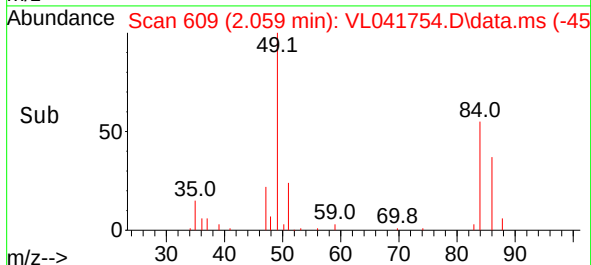
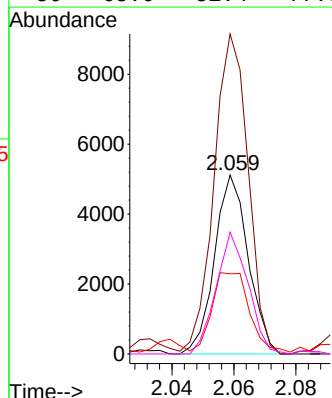
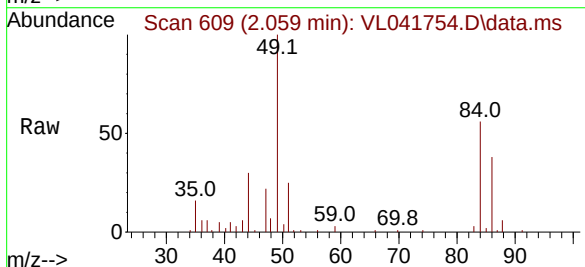
Ion Ratio Lower Upper

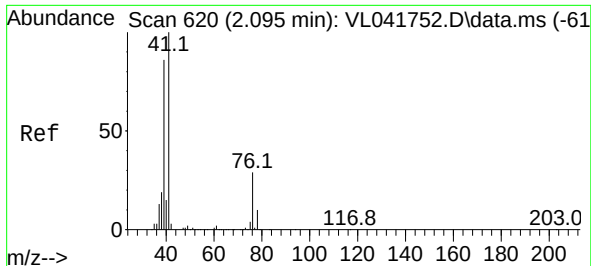
84 100

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

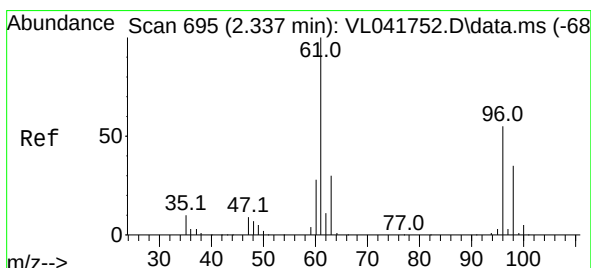
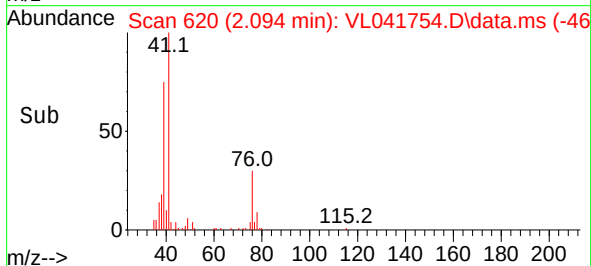
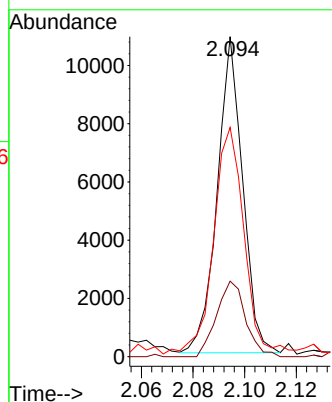
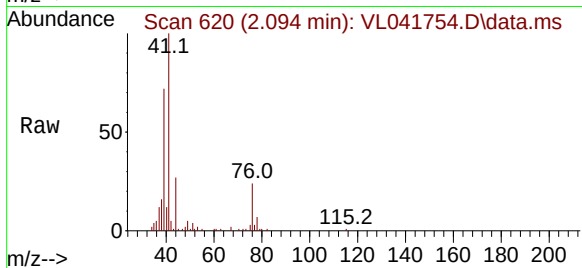
Tgt Ion: 41 Resp: 7425

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

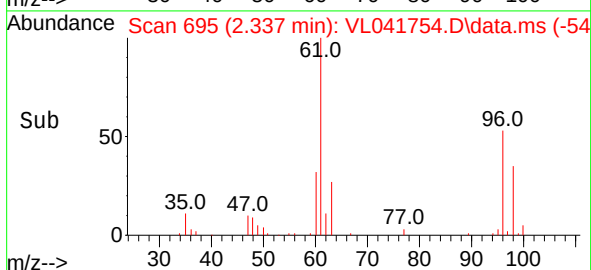
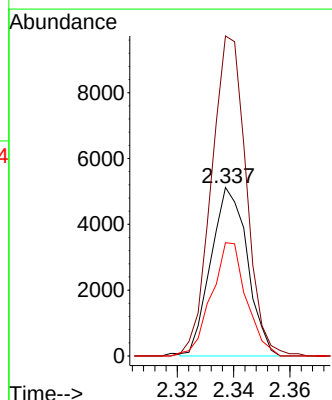
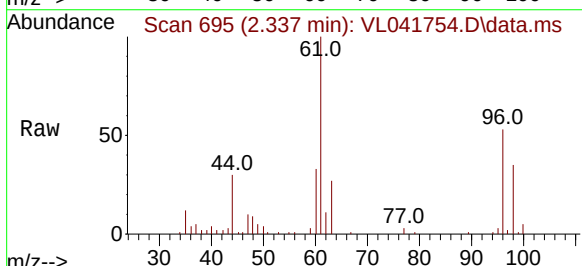
Tgt Ion: 96 Resp: 4599

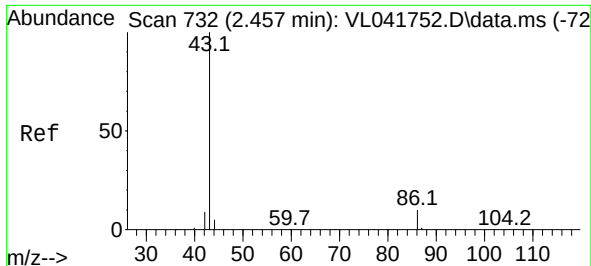
Ion Ratio Lower Upper

96 100

61 188.9 146.3 219.5

98 67.3 50.8 76.2

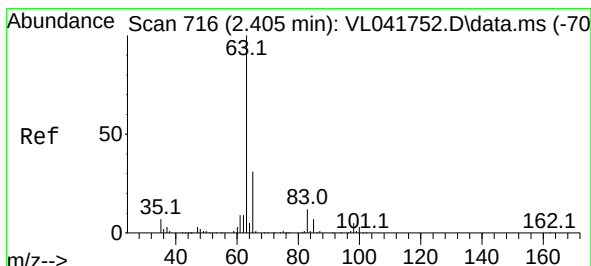
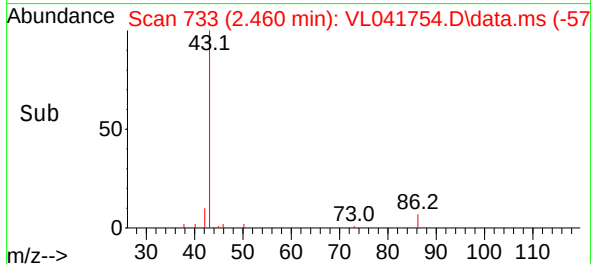
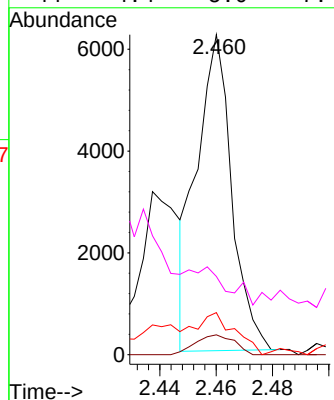
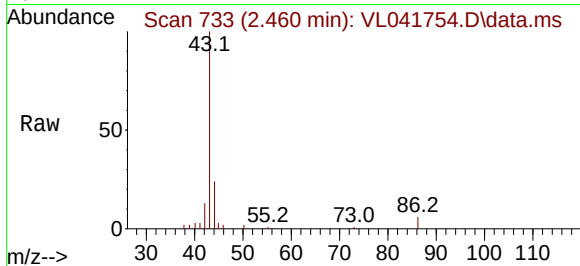




#23
 Vinyl Acetate
 Concen: 0.959 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

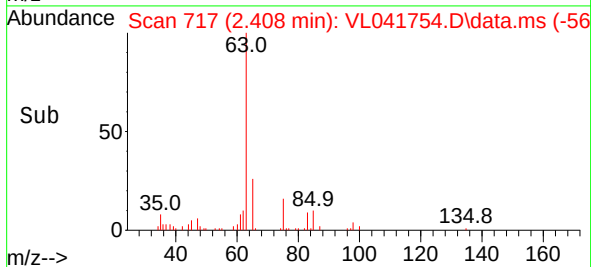
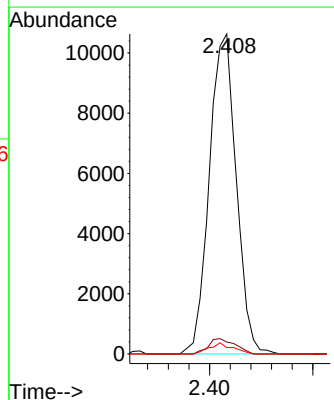
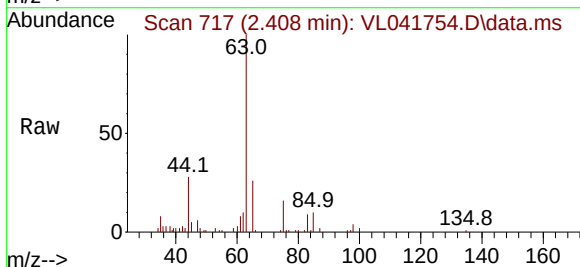
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

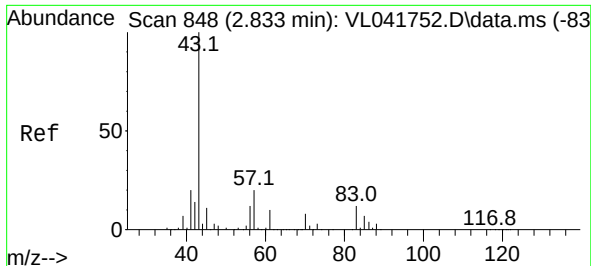
Tgt Ion: 43	Resp: 5345
Ion Ratio	Lower Upper
43 100	
86 6.3	6.6 10.0#
42 11.4	8.2 12.2
44 4.4	5.0 7.4#



#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

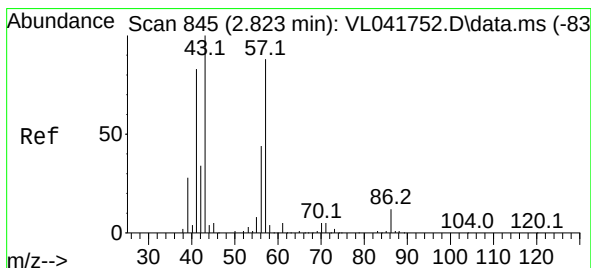
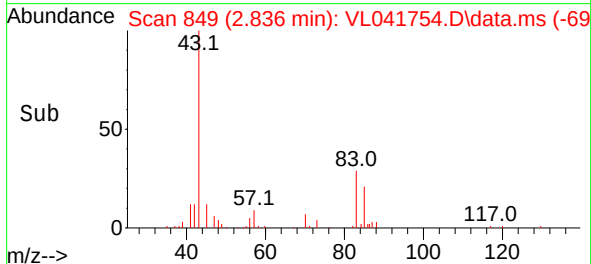
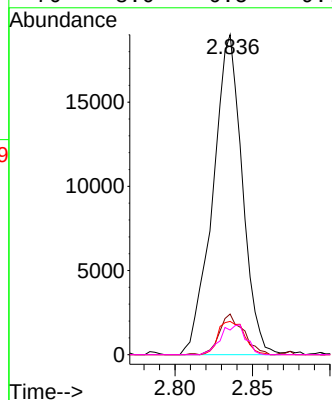
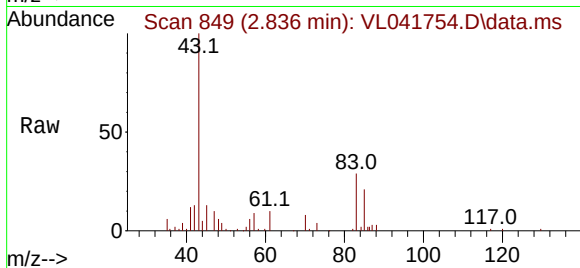
Ion Ratio Lower Upper

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

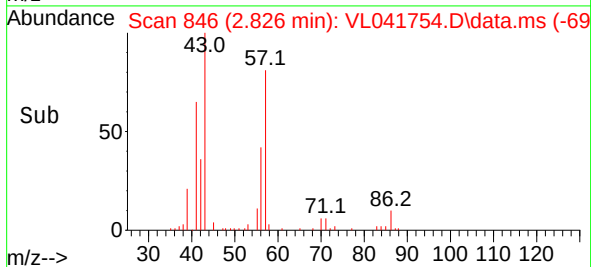
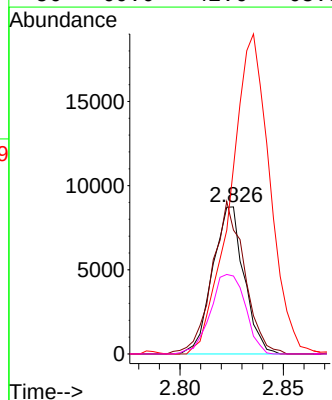
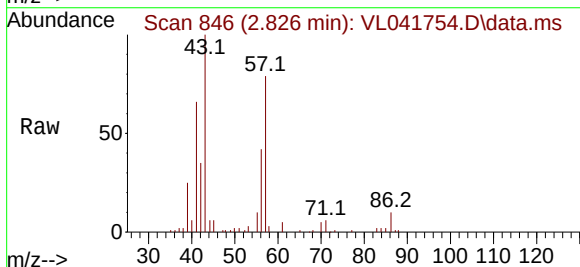
Ion Ratio Lower Upper

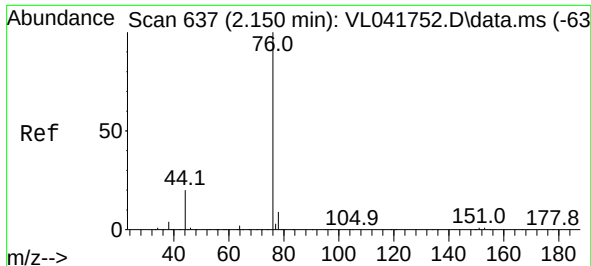
57 100

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

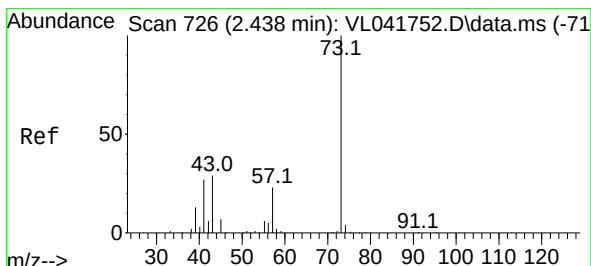
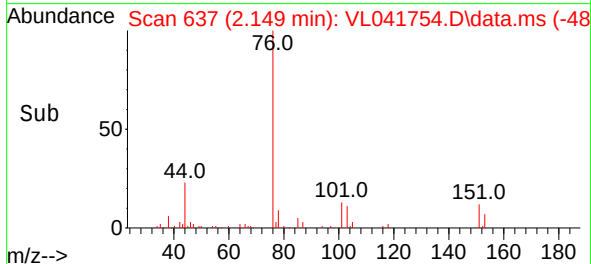
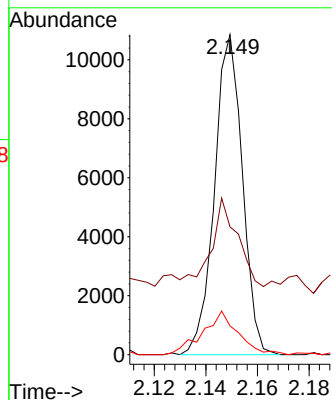
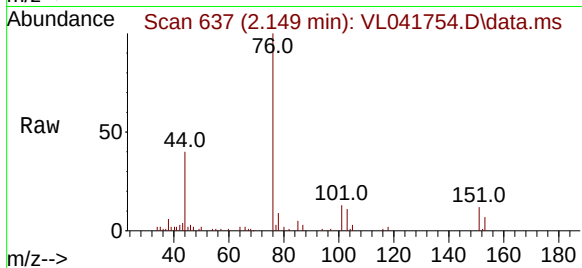
Tgt Ion: 76 Resp: 8152

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

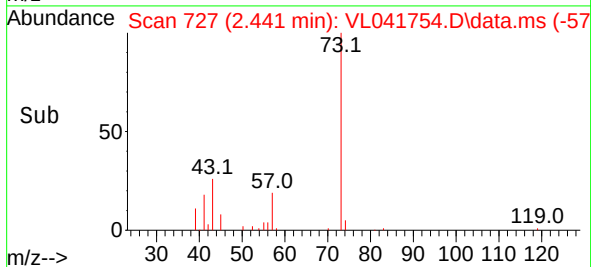
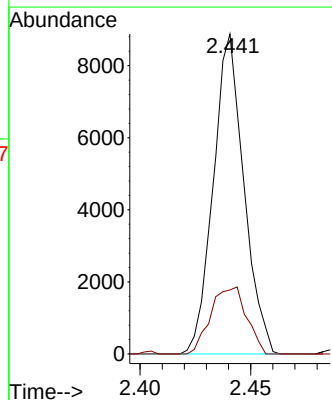
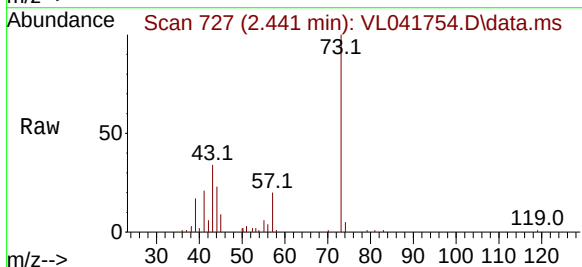
Acq: 16 Dec 2024 14:34

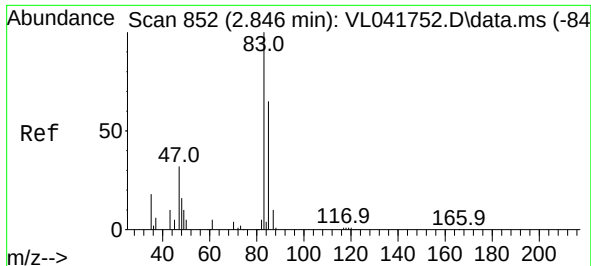
Tgt Ion: 73 Resp: 8539

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 :

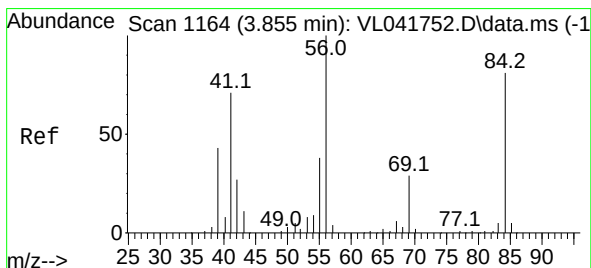
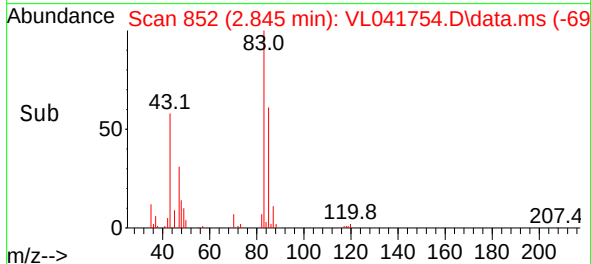
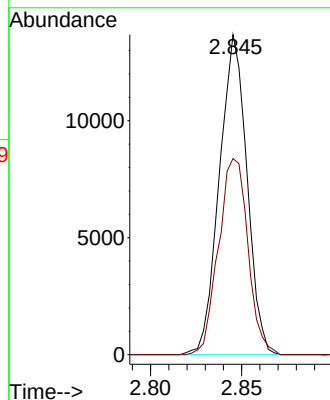
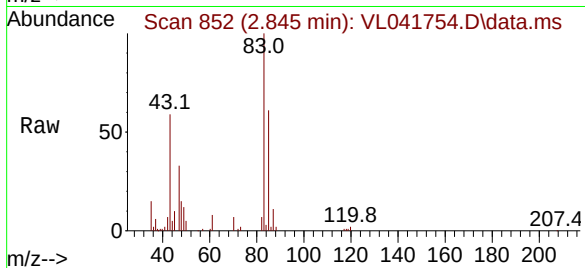
VSTDICC001

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

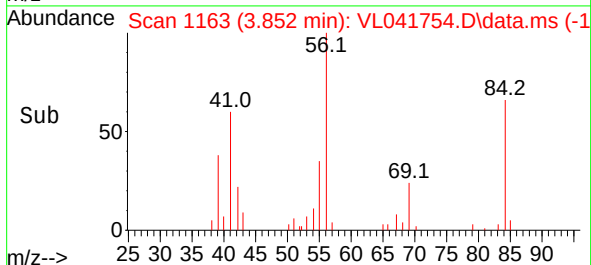
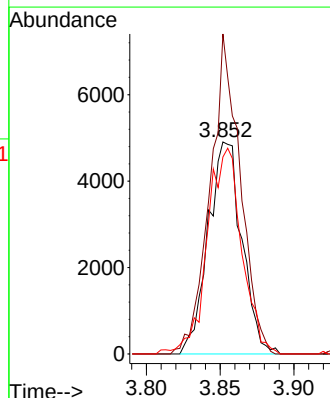
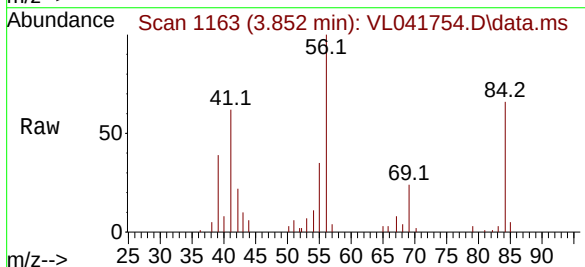
Tgt Ion: 84 Resp: 7824

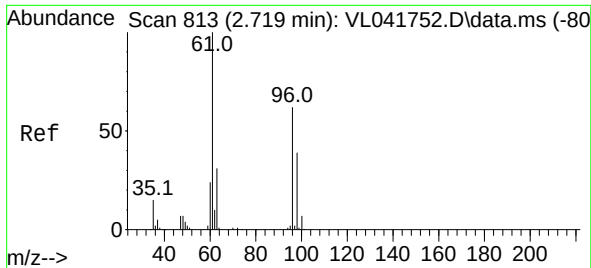
Ion Ratio Lower Upper

84 100

56 134.4 102.3 153.5

41 99.6 74.0 111.0

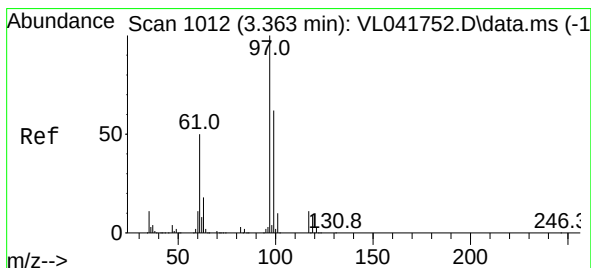
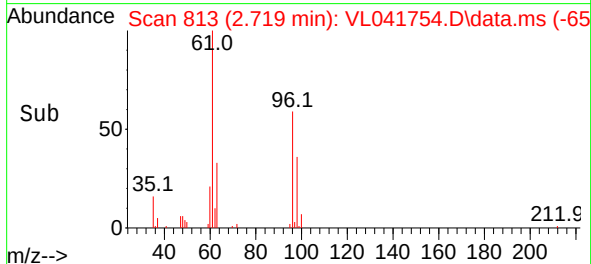
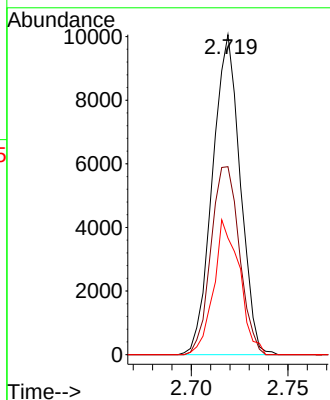
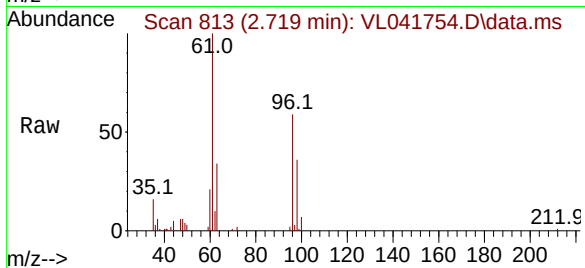




#31
 cis-1,2-Dichloroethene
 Concen: 1.070 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

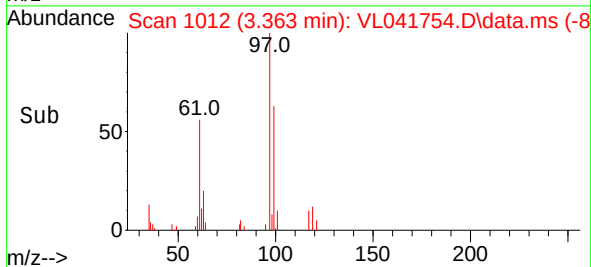
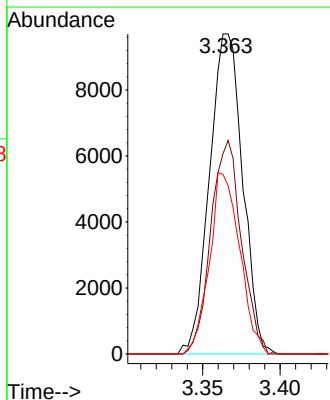
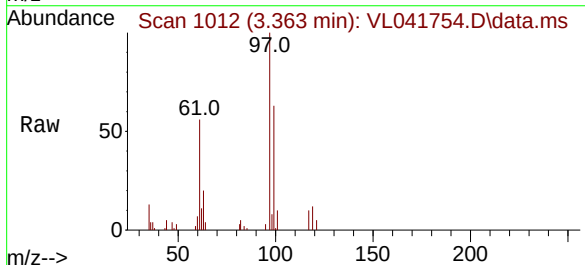
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

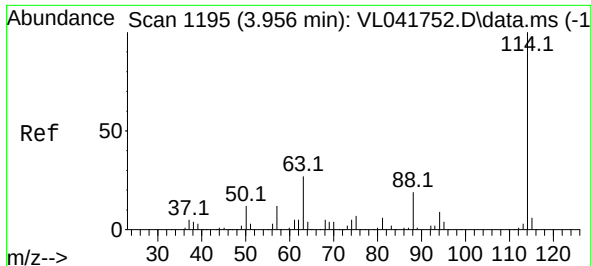
Tgt Ion: 61 Resp: 10013
 Ion Ratio Lower Upper
 61 100
 96 58.7 49.7 74.5
 98 36.5 30.8 46.2



#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

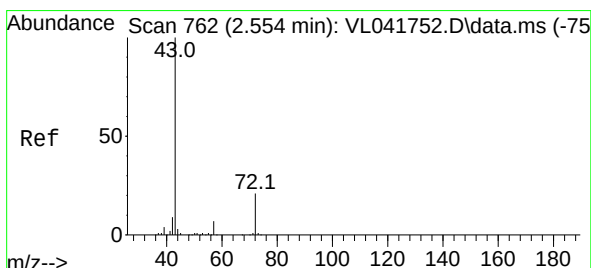
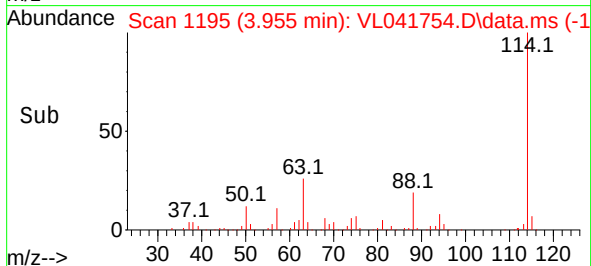
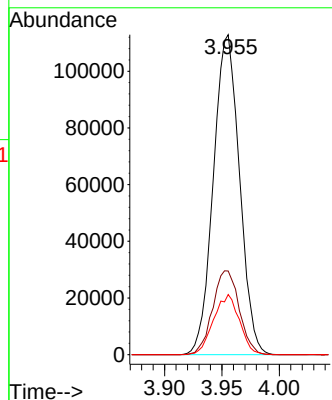
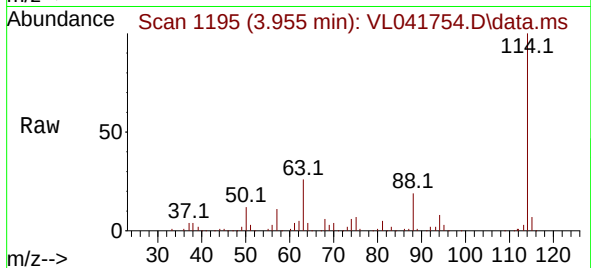
Tgt Ion:114 Resp: 178926

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

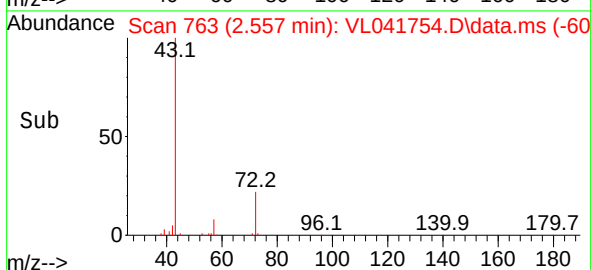
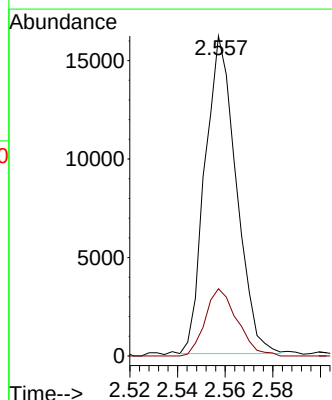
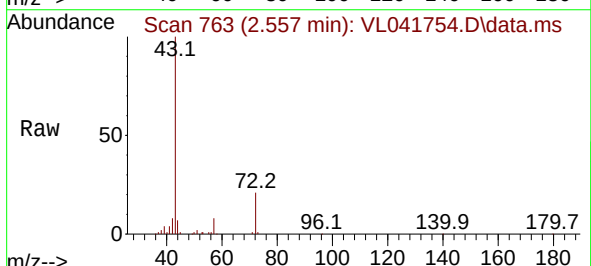
Acq: 16 Dec 2024 14:34

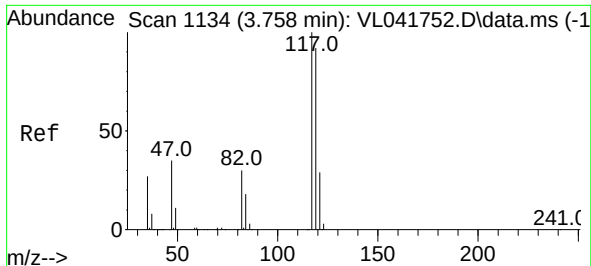
Tgt Ion: 43 Resp: 14673

Ion Ratio Lower Upper

43 100

72 21.7 16.8 25.2

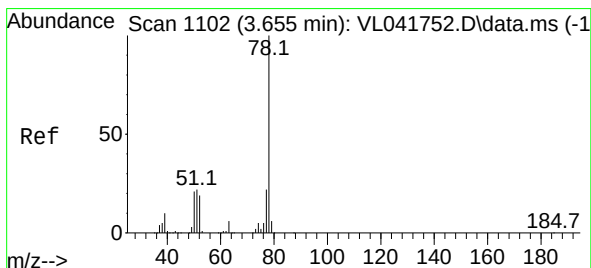
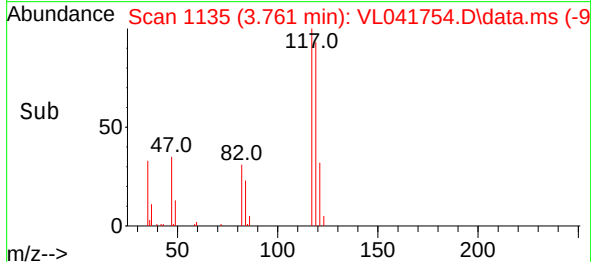
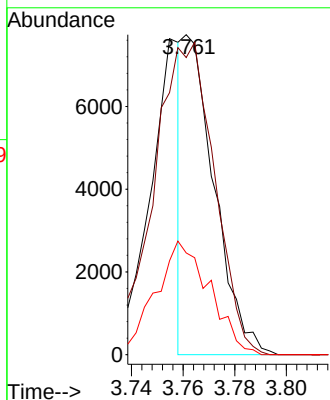
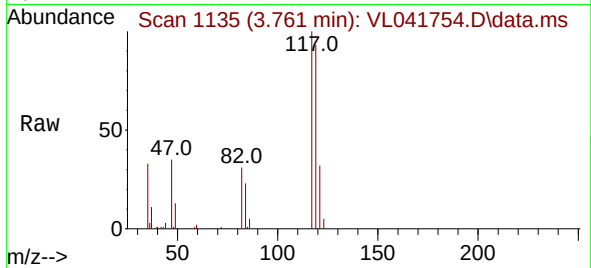




#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

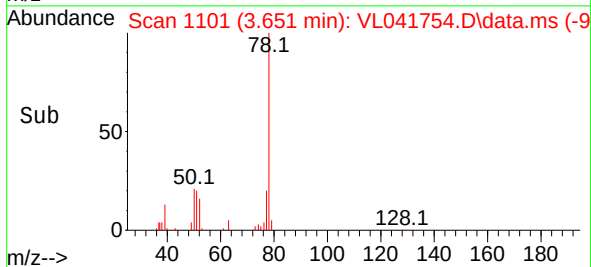
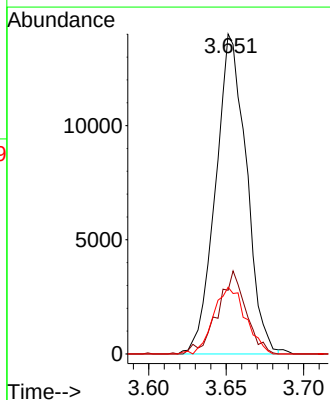
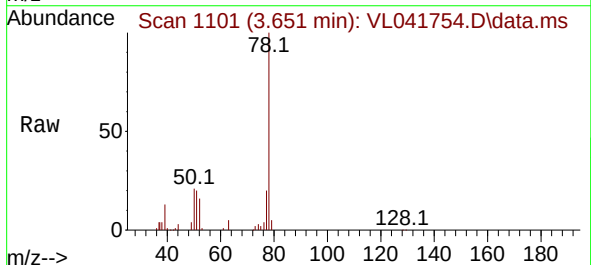
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

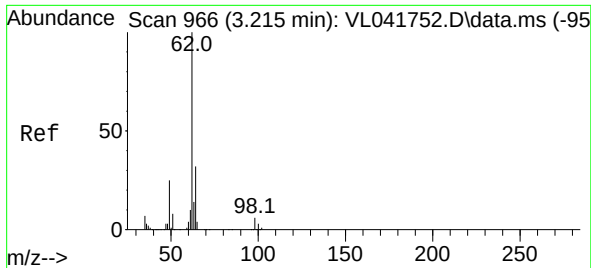
Tgt Ion:117 Resp: 6520
Ion Ratio Lower Upper
117 100
119 92.9 73.7 110.5
121 31.8 23.0 34.4



#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

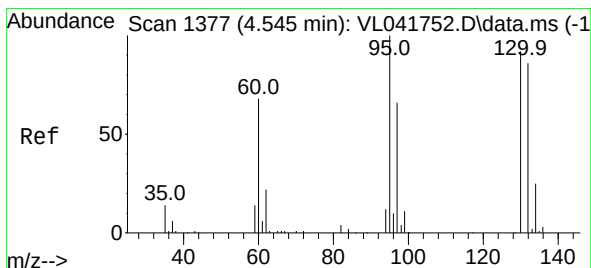
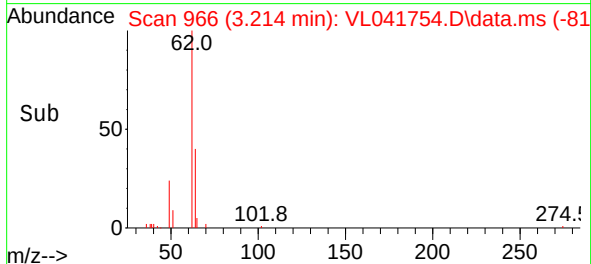
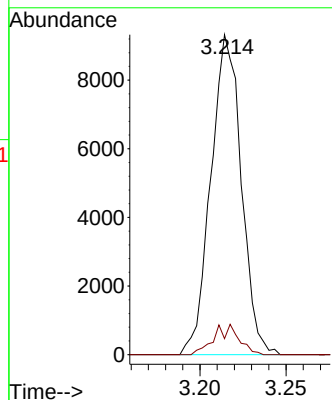
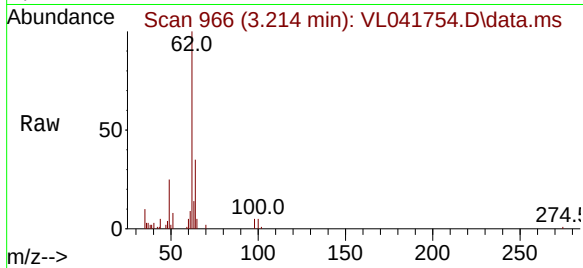




#37
1,2-Dichloroethane
Concen: 0.998 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

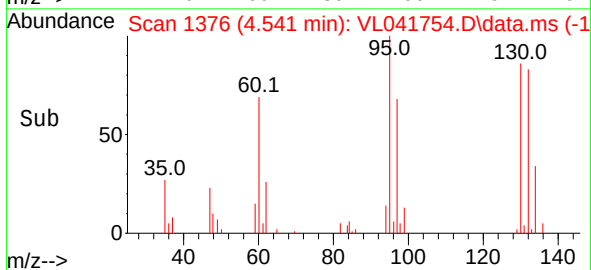
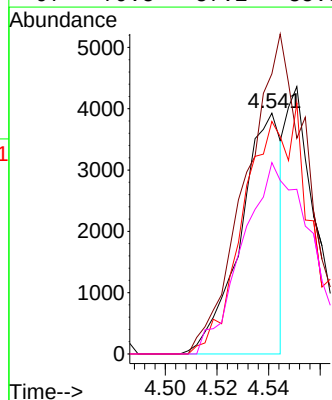
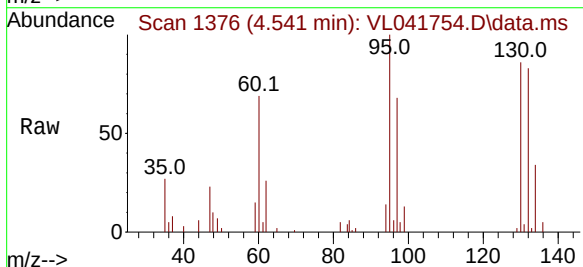
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

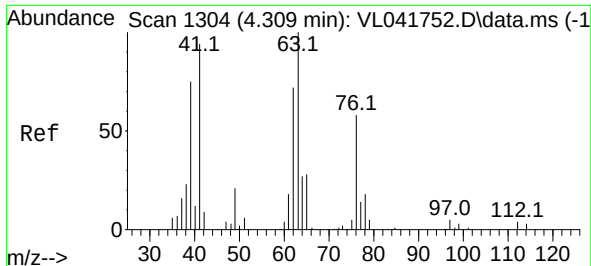
Tgt Ion: 62 Resp: 11490
Ion Ratio Lower Upper
62 100
98 7.8 4.7 7.1#



#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

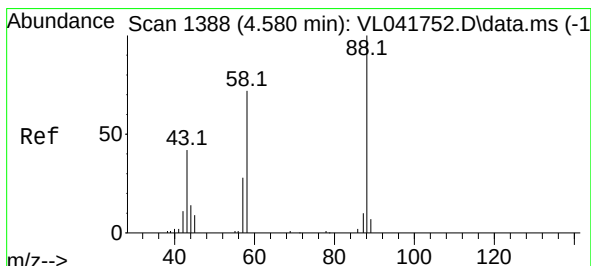
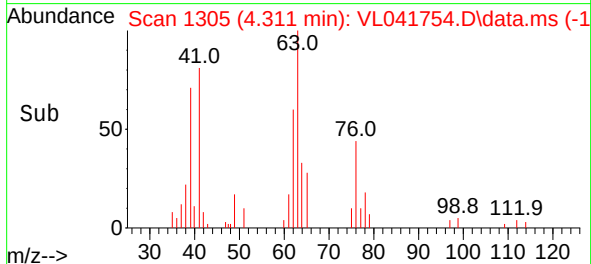
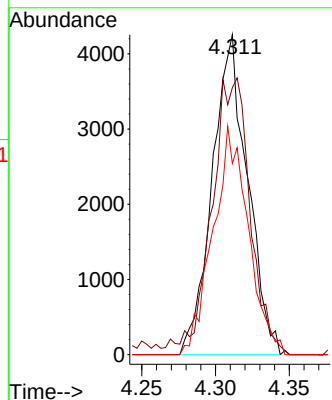
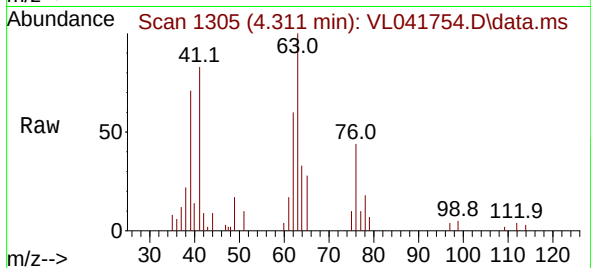
Tgt Ion: 63 Resp: 7068

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

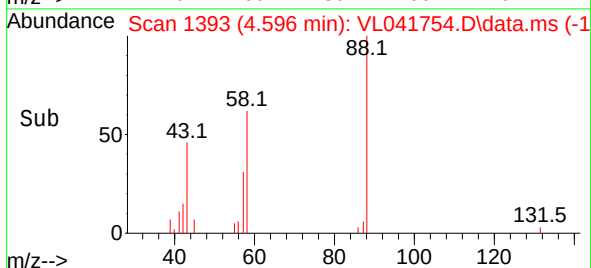
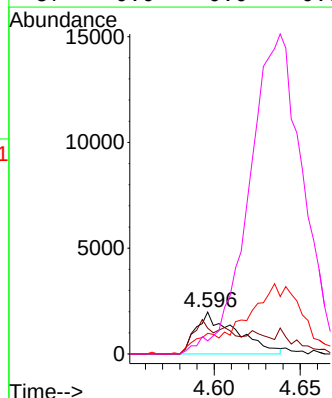
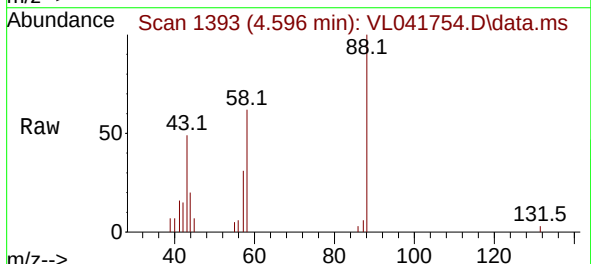
Ion Ratio Lower Upper

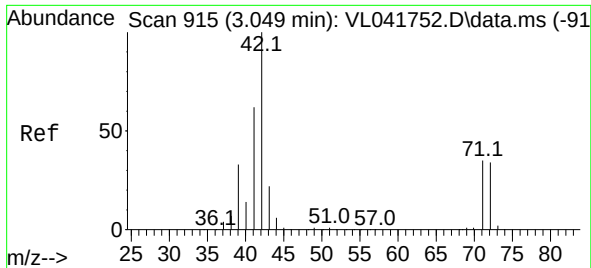
88 100

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

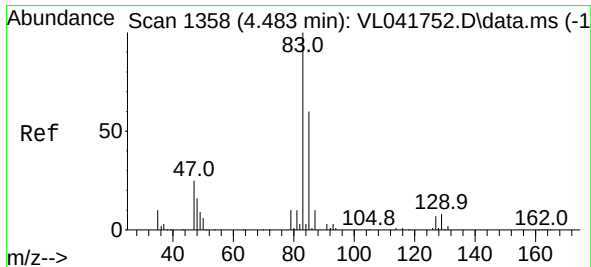
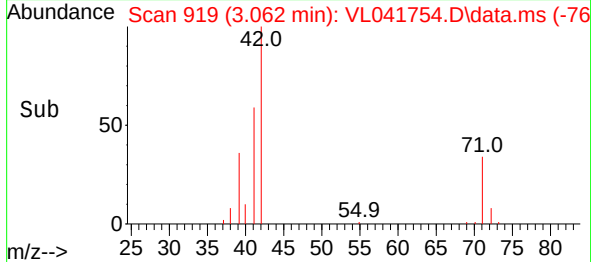
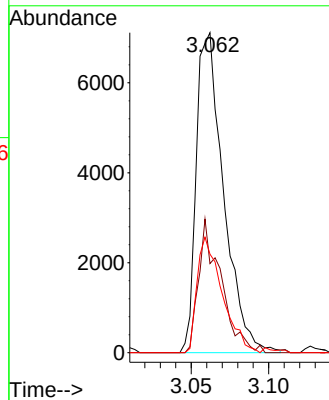
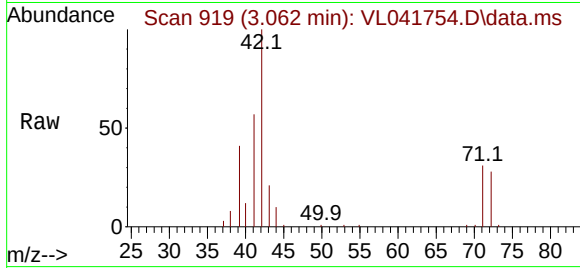
Tgt Ion: 42 Resp: 8727

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

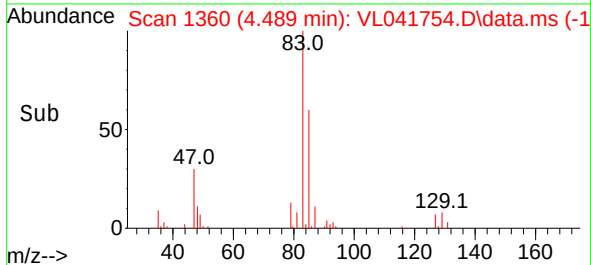
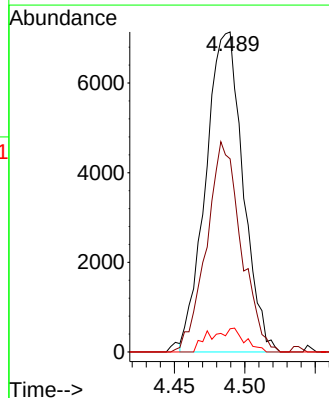
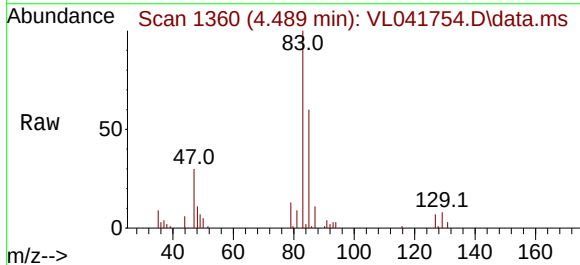
Tgt Ion: 83 Resp: 13154

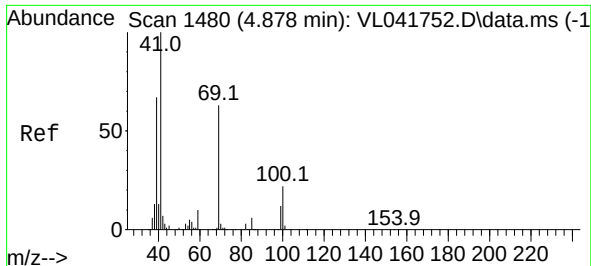
Ion Ratio Lower Upper

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

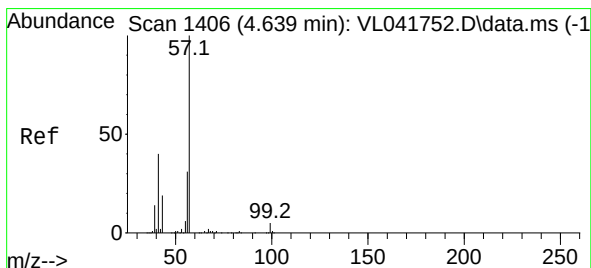
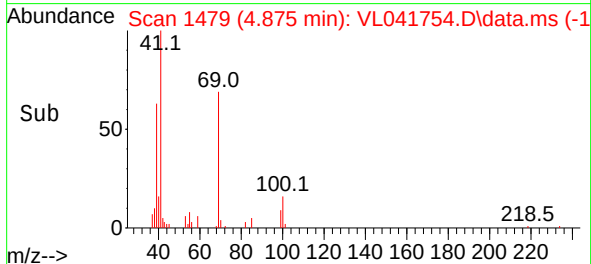
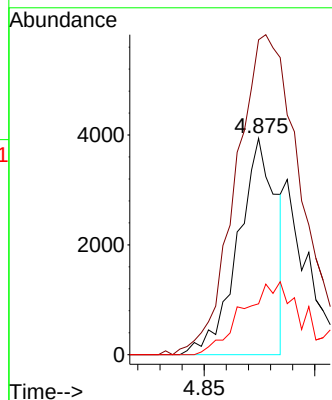
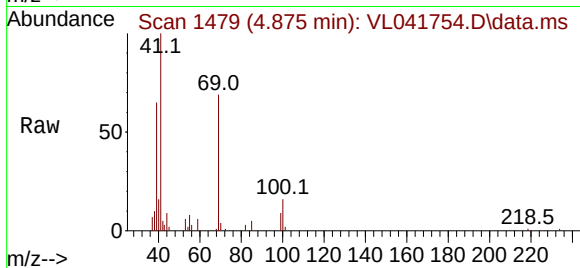
Tgt Ion: 69 Resp: 4727

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

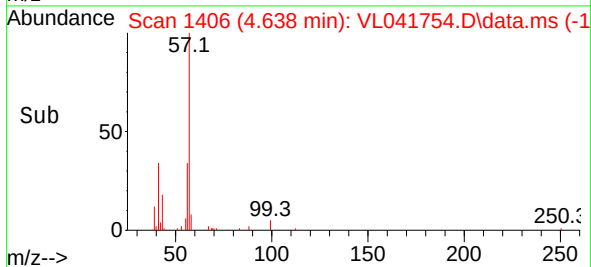
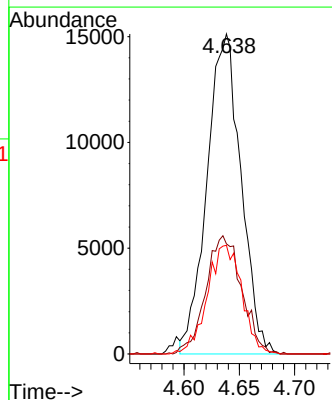
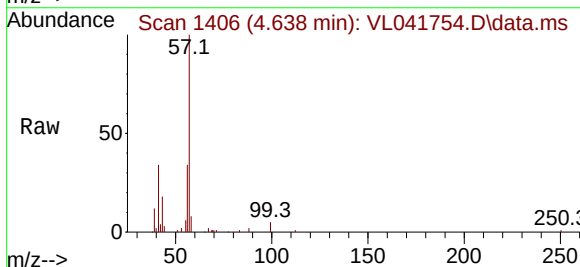
Tgt Ion: 57 Resp: 32361

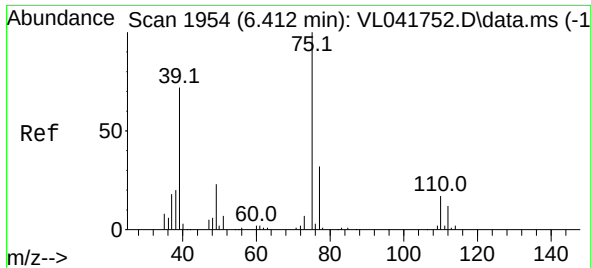
Ion Ratio Lower Upper

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 :

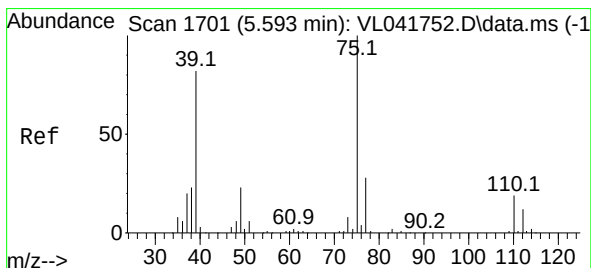
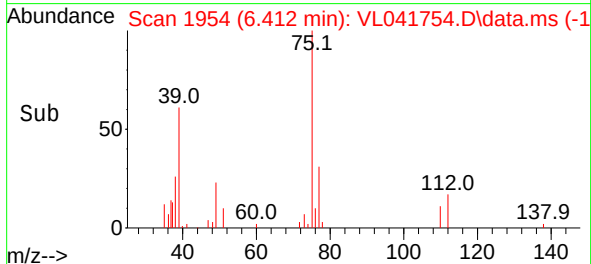
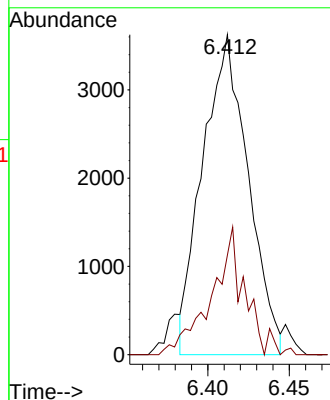
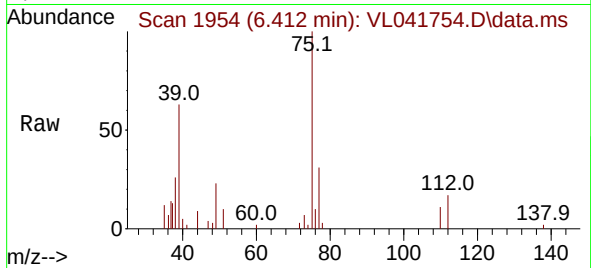
VSTDIC001

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

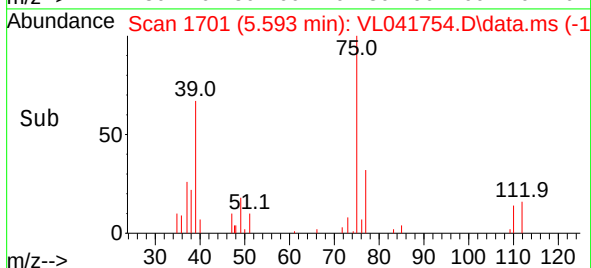
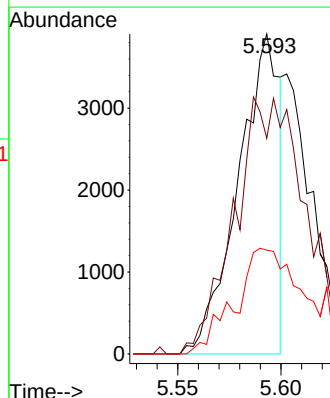
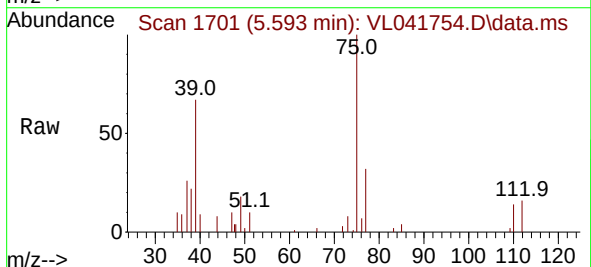
Tgt Ion: 75 Resp: 5402

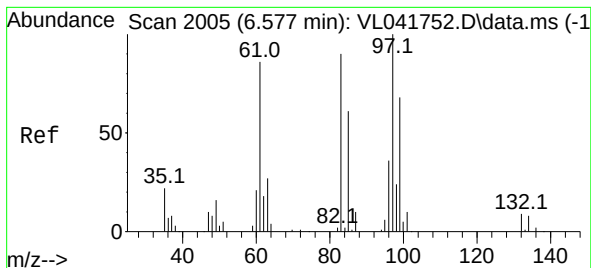
Ion Ratio Lower Upper

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

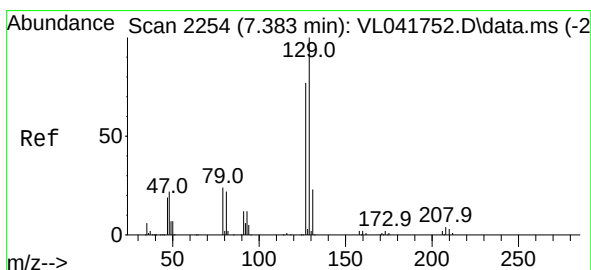
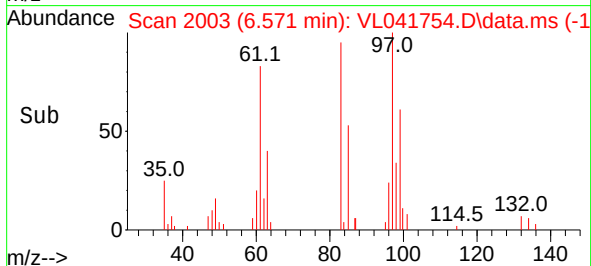
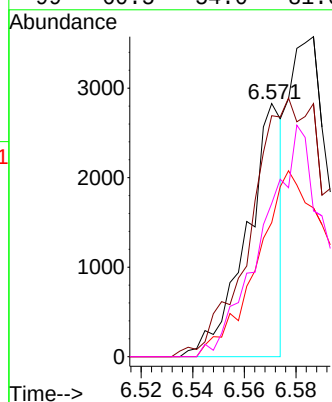
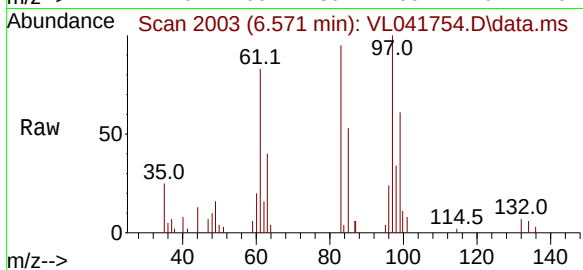
Ion Ratio Lower Upper

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

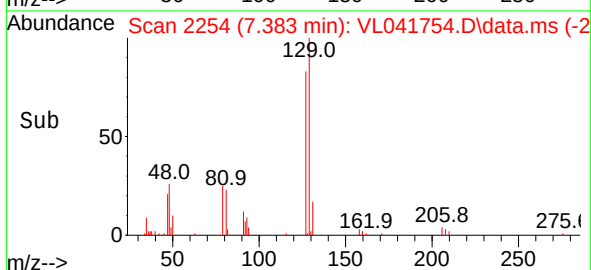
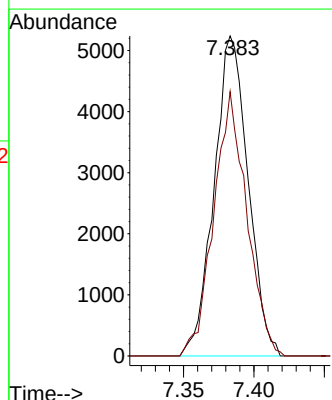
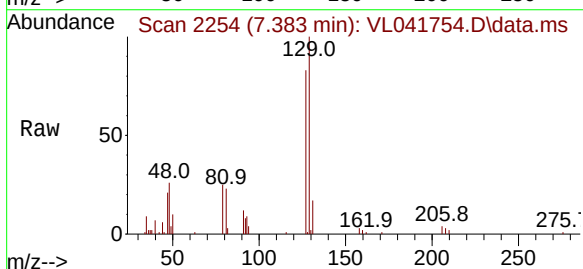
Acq: 16 Dec 2024 14:34

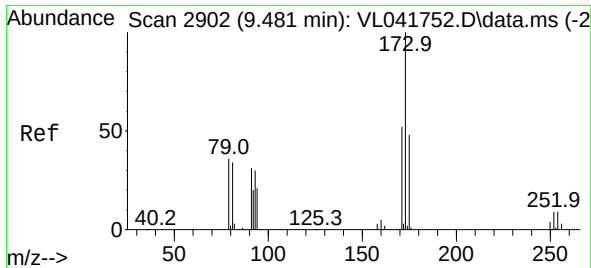
Tgt Ion: 129 Resp: 8817

Ion Ratio Lower Upper

129 100

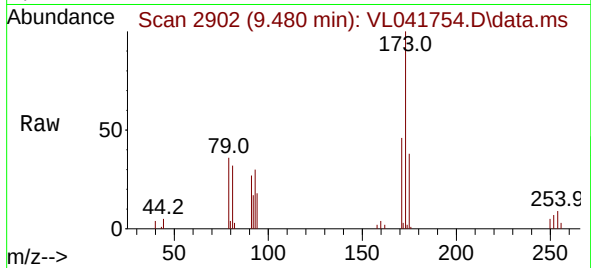
127 80.2 38.8 116.3



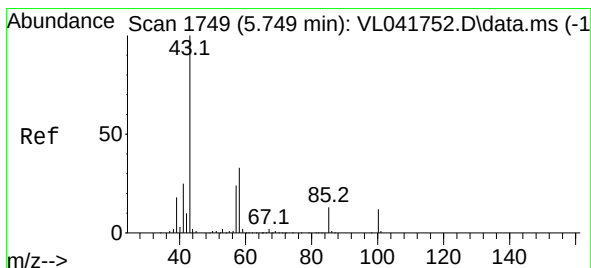
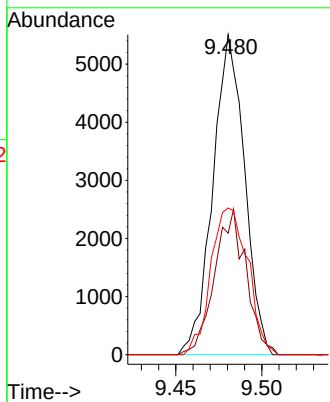
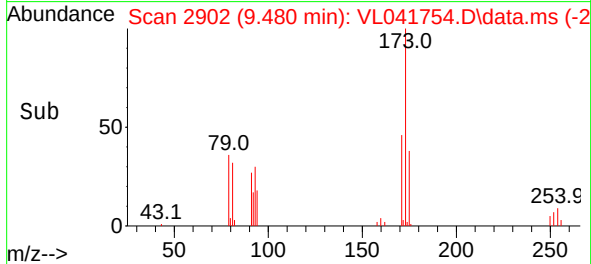


#49
Bromoform
Concen: 0.905 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

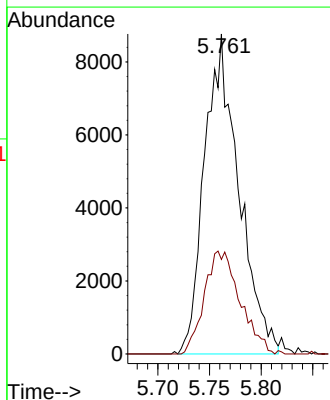
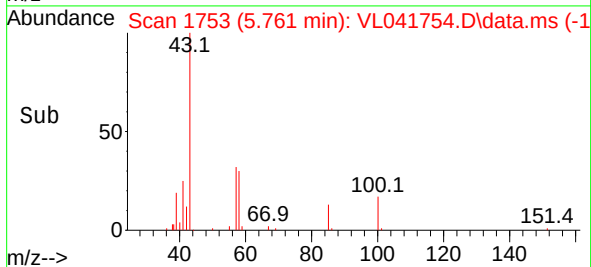
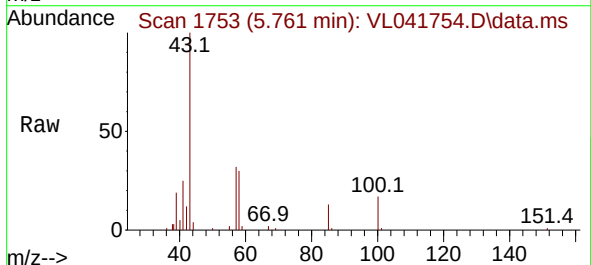


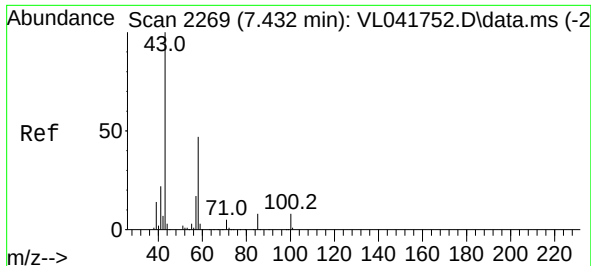
Tgt Ion:173 Resp: 7073
Ion Ratio Lower Upper
173 100
175 44.7 38.2 57.2
171 53.3 41.1 61.7



#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

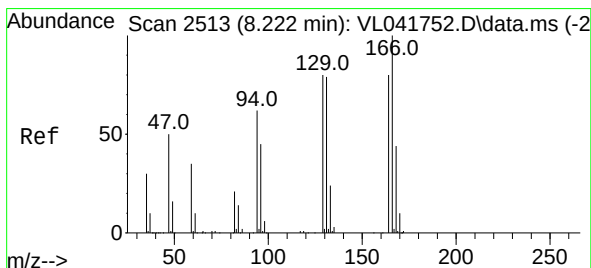
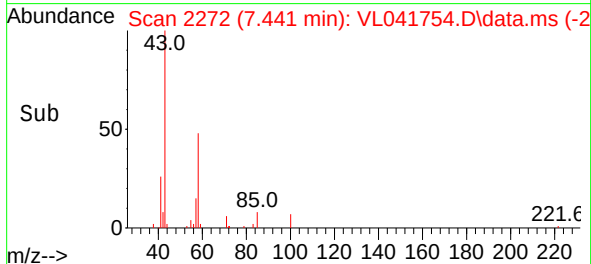
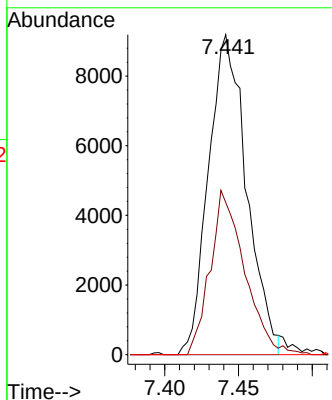
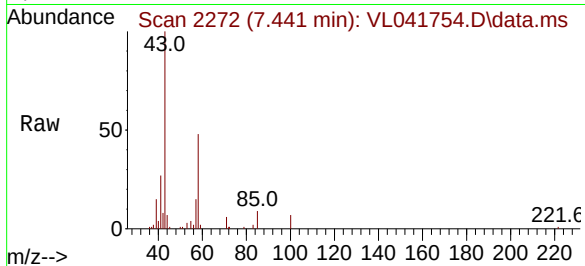




#51
 2-Hexanone
 Concen: 1.040 ppbv
 RT: 7.441 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: VL041754.D
 Acq: 16 Dec 2024 14:34

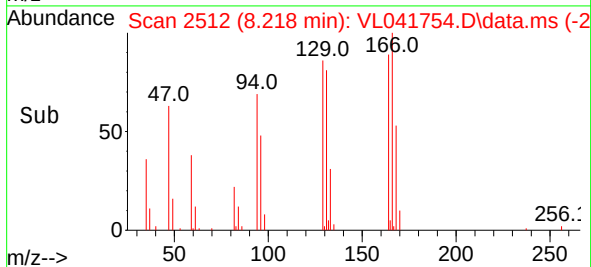
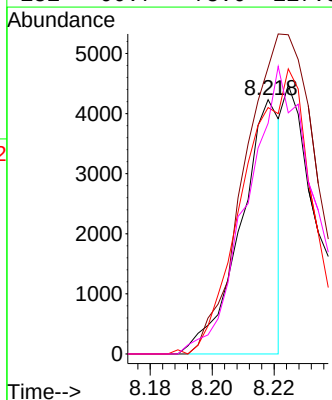
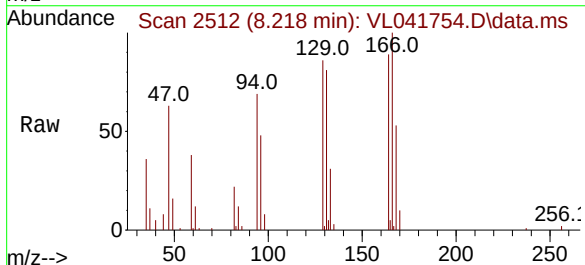
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

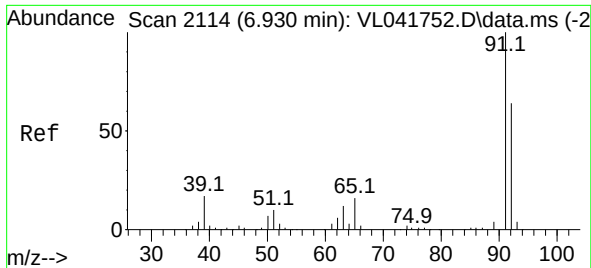
Tgt Ion: 43 Resp: 16514
 Ion Ratio Lower Upper
 43 100
 58 46.5 36.6 55.0
 98 0.2 0.1 0.1#



#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 :

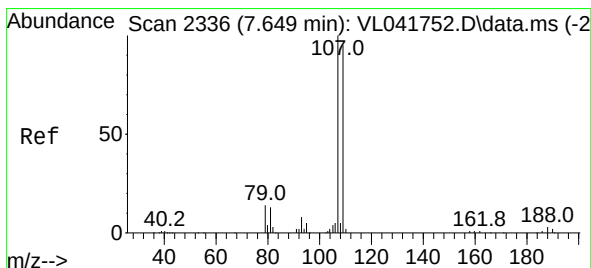
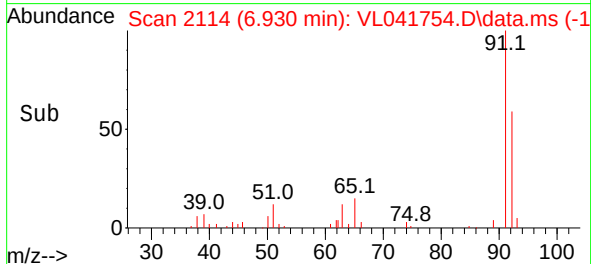
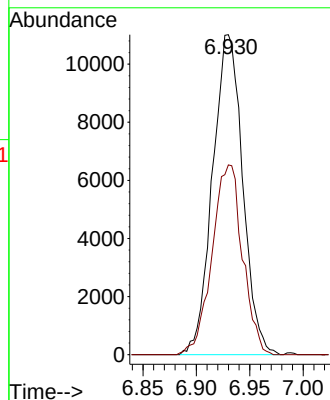
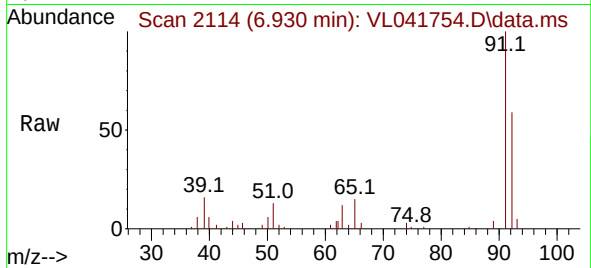
VSTDIC001

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

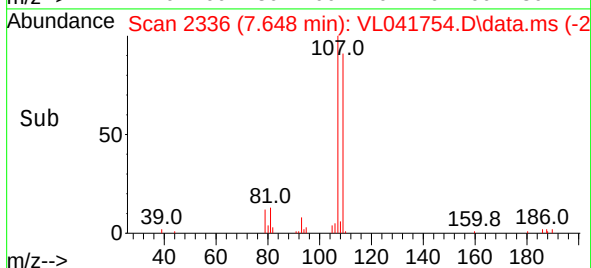
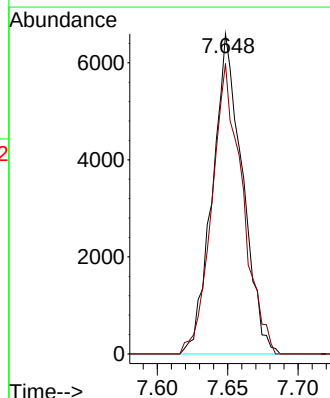
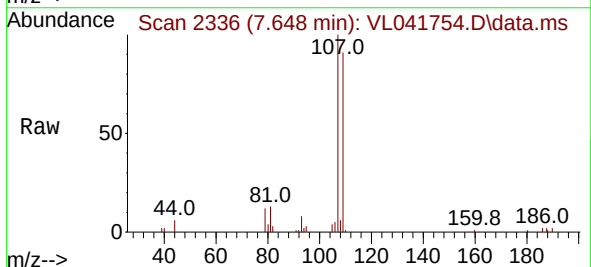
Acq: 16 Dec 2024 14:34

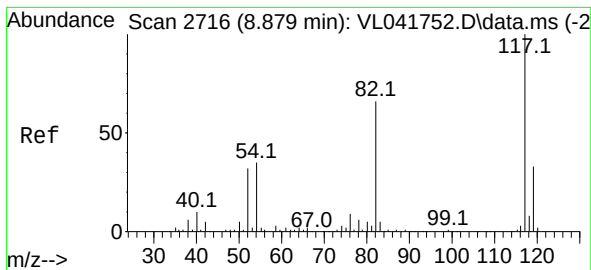
Tgt Ion:107 Resp: 9758

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

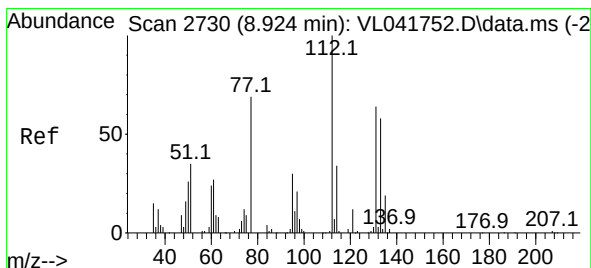
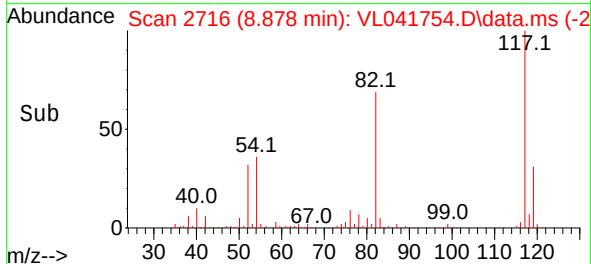
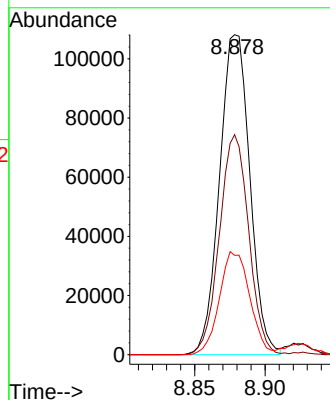
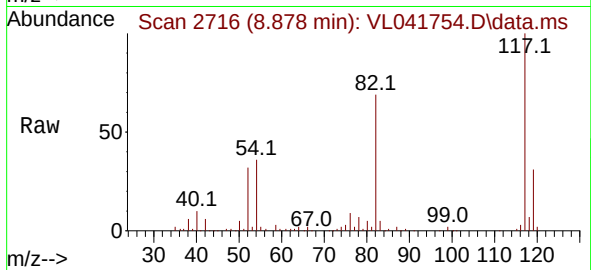
Tgt Ion:117 Resp: 162267

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

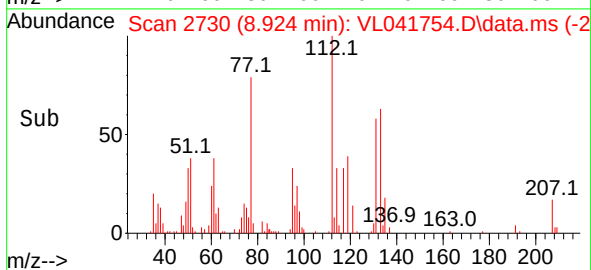
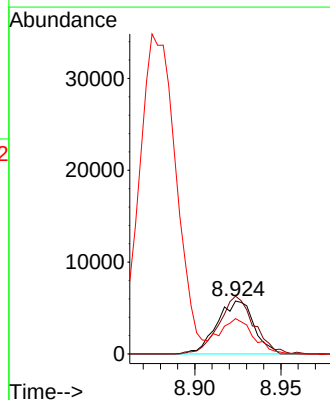
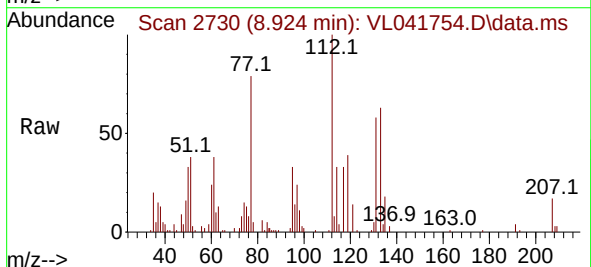
Tgt Ion:131 Resp: 8643

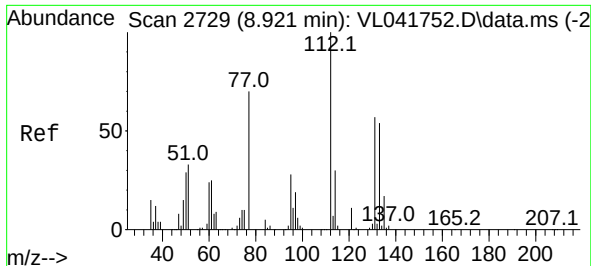
Ion Ratio Lower Upper

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

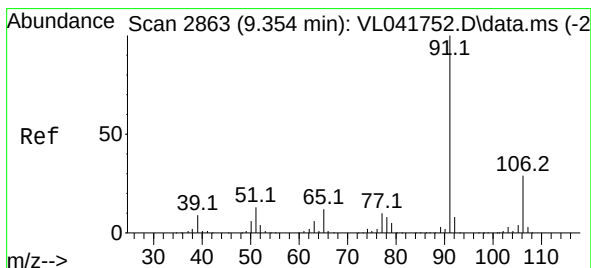
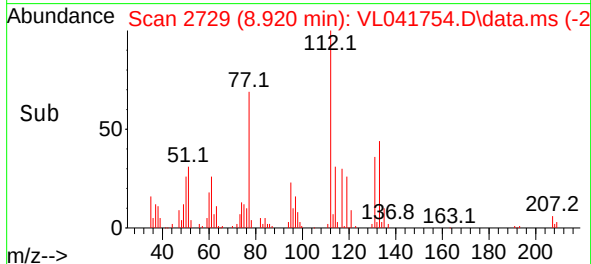
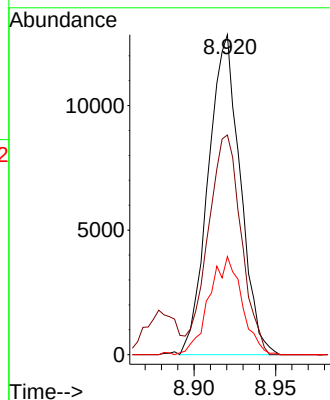
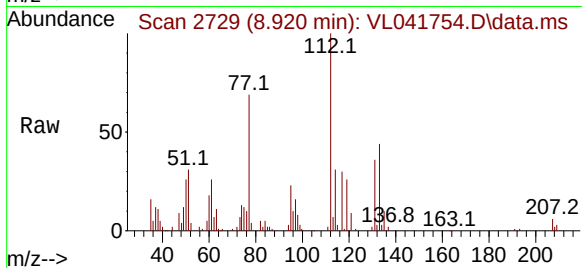
Tgt Ion:112 Resp: 17500

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

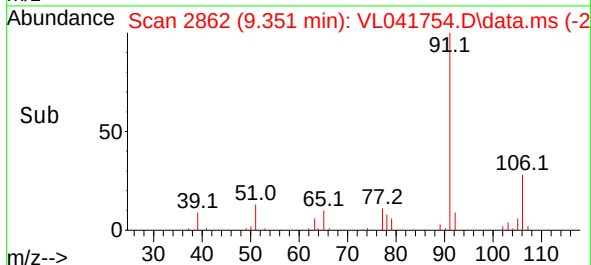
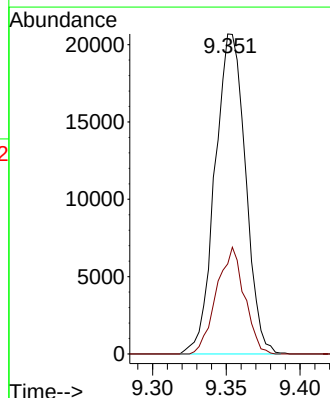
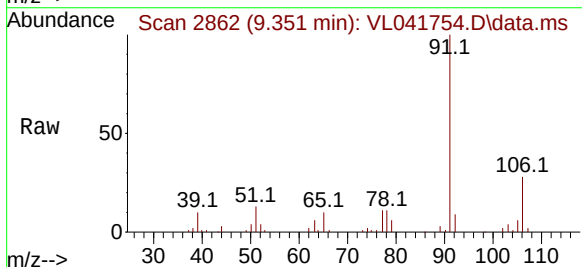
Acq: 16 Dec 2024 14:34

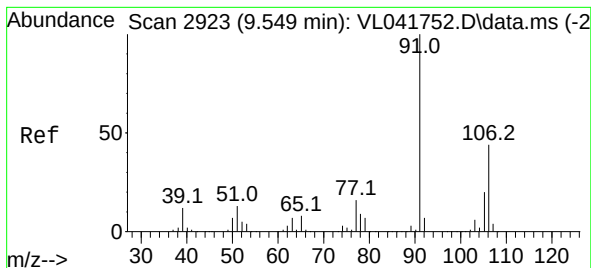
Tgt Ion: 91 Resp: 29762

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 :

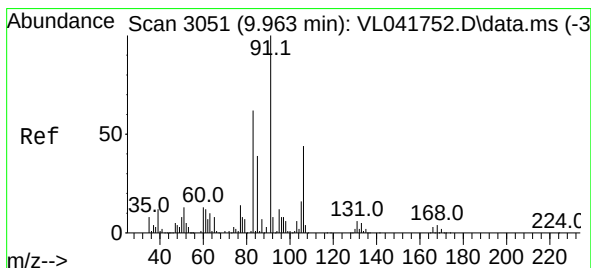
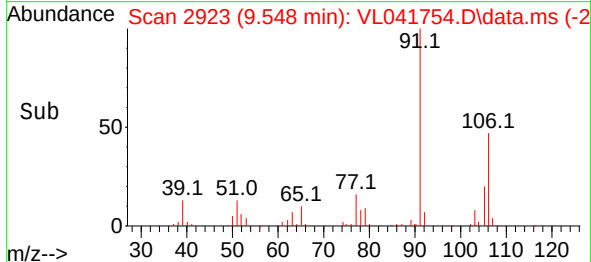
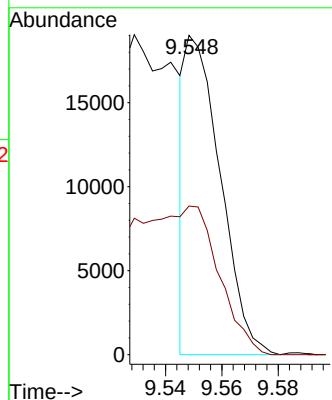
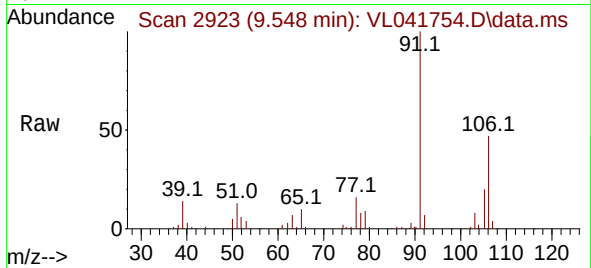
VSTDIC001

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

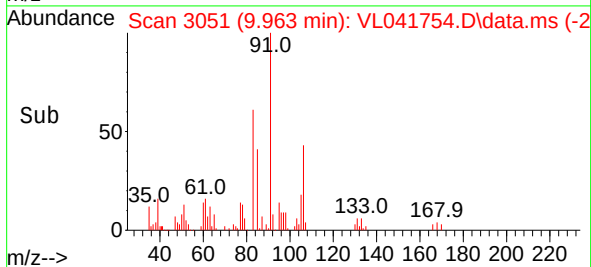
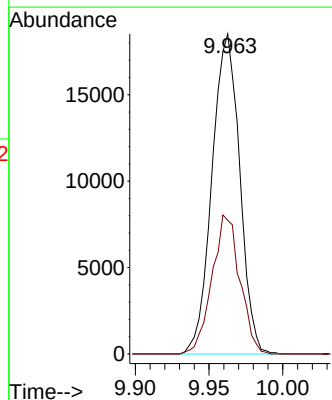
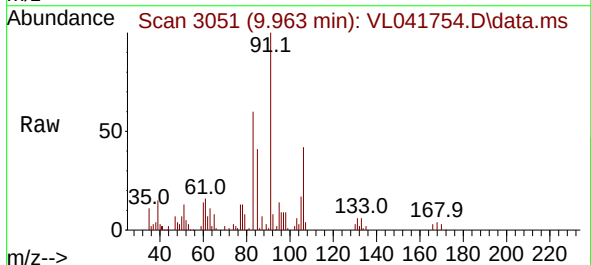
Acq: 16 Dec 2024 14:34

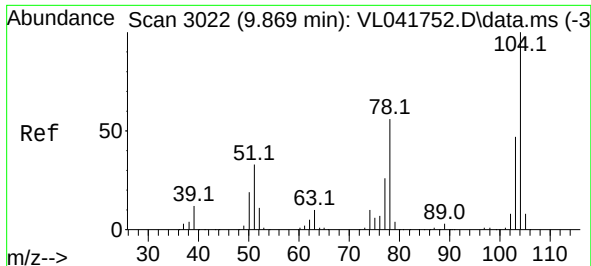
Tgt Ion: 91 Resp: 24210

Ion Ratio Lower Upper

91 100

106 43.6 21.1 63.4

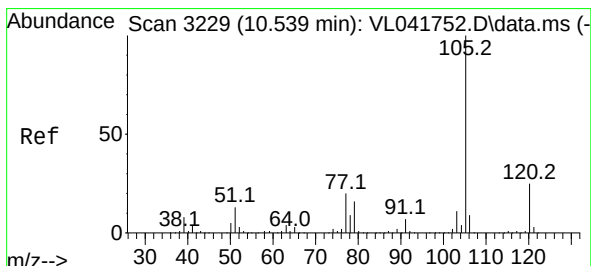
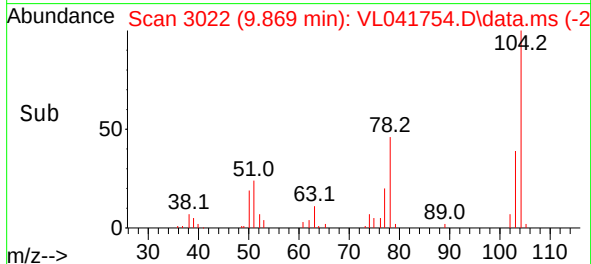
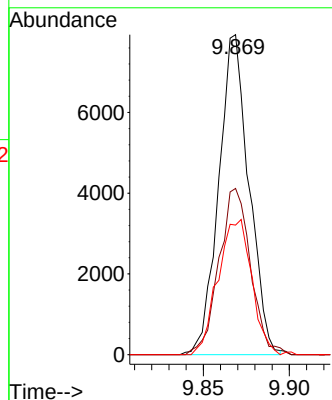
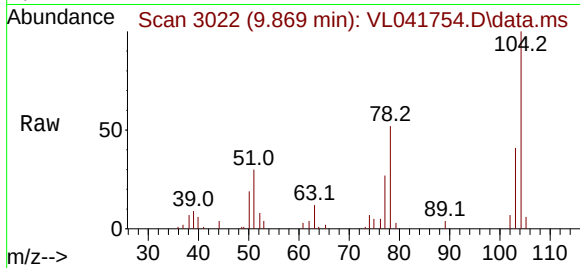




#61
Styrene
Concen: 0.953 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

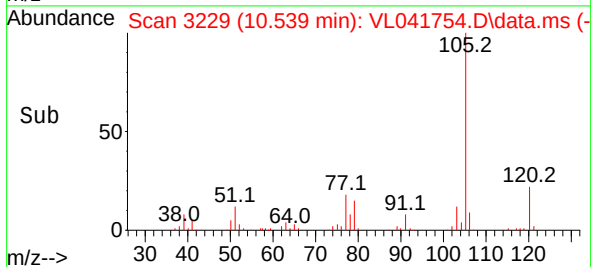
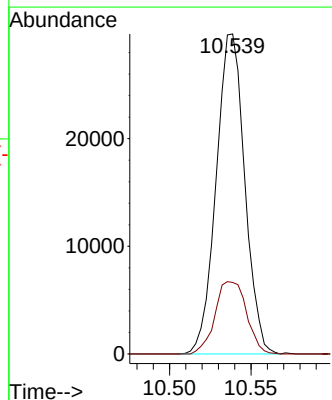
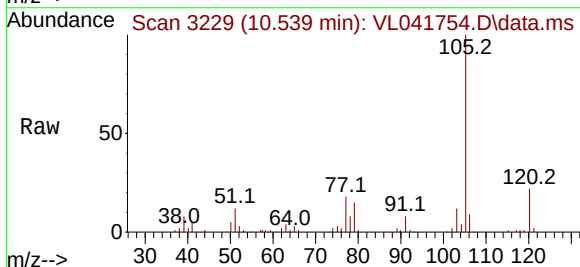
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

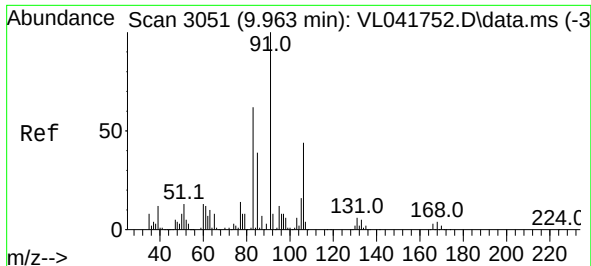
Tgt Ion:104 Resp: 9707
Ion Ratio Lower Upper
104 100
78 54.3 43.8 65.6
103 47.2 37.8 56.6



#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

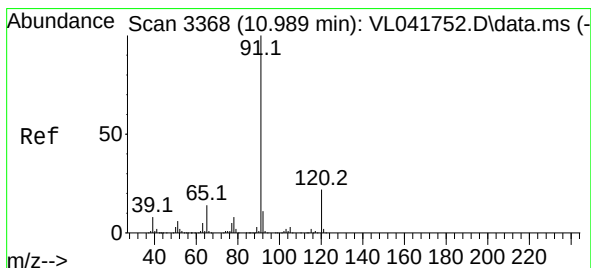
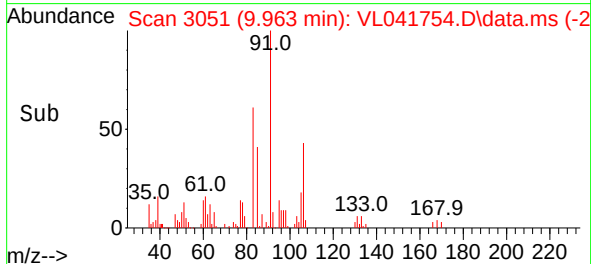
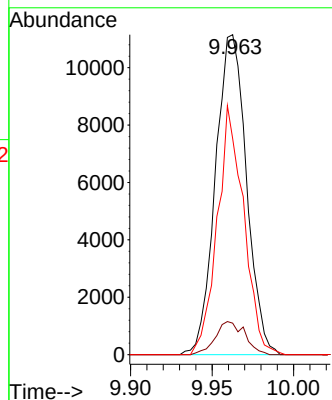
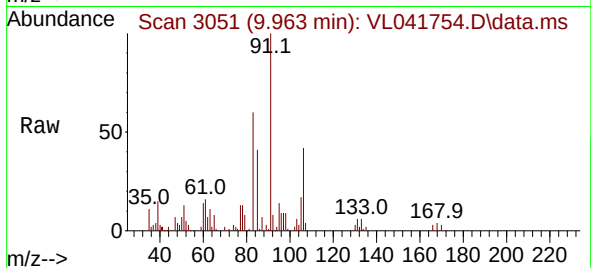
Tgt Ion: 83 Resp: 14752

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

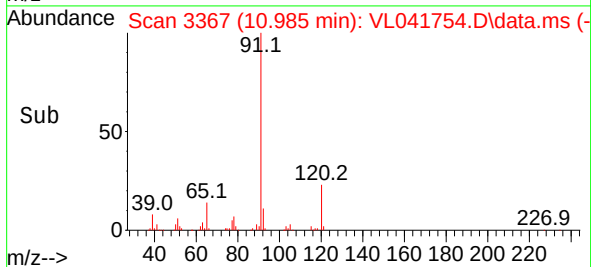
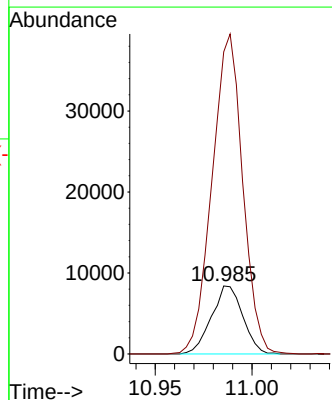
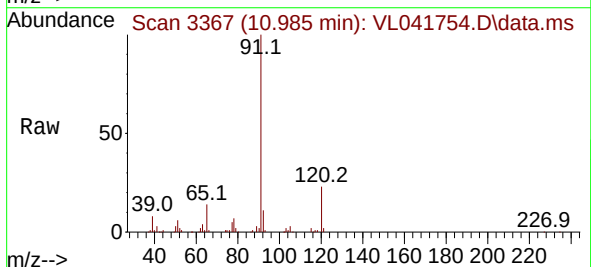
Acq: 16 Dec 2024 14:34

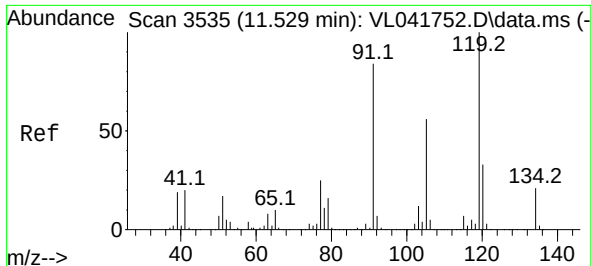
Tgt Ion:120 Resp: 9432

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

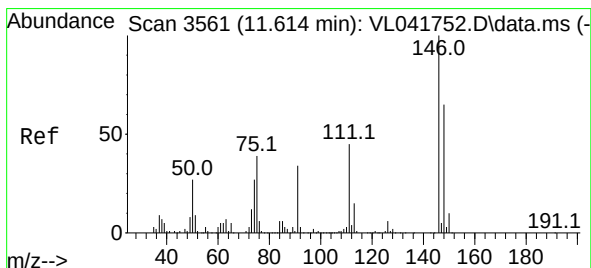
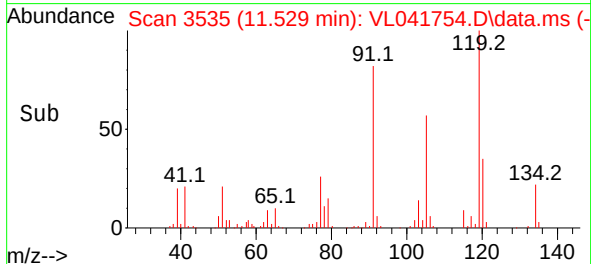
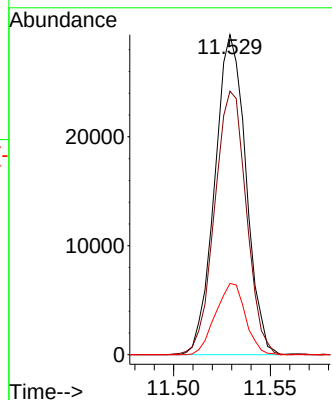
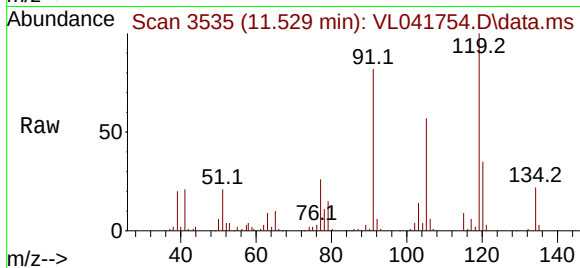
Tgt Ion:119 Resp: 32887

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

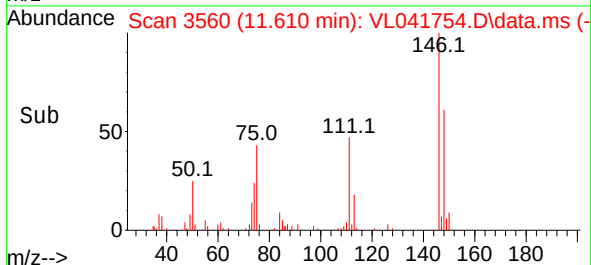
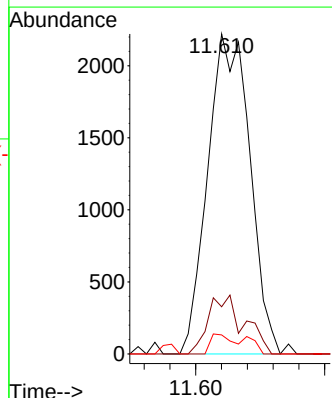
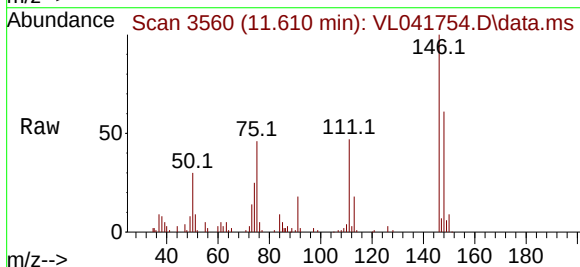
Tgt Ion: 91 Resp: 2518

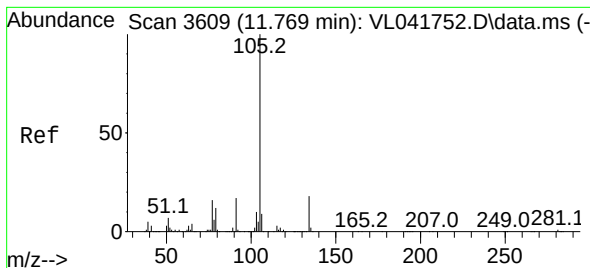
Ion Ratio Lower Upper

91 100

126 15.6 13.9 20.9

128 5.9 4.4 6.6

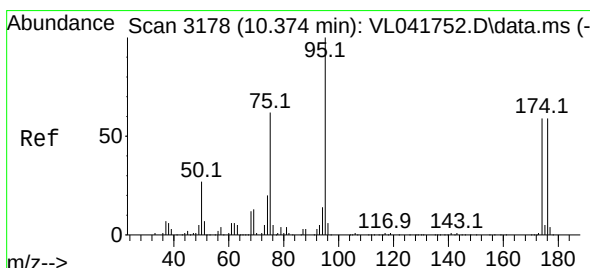
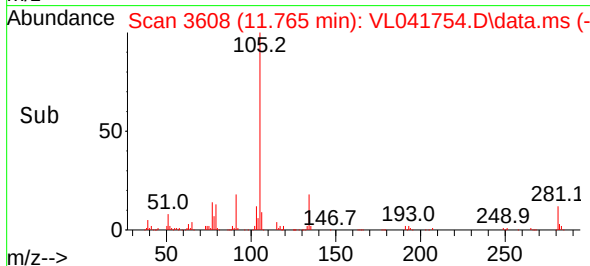
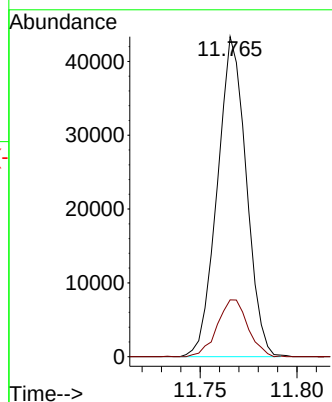
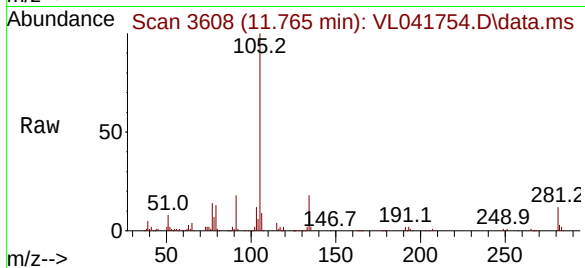




#67
sec-Butylbenzene
Concen: 1.019 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.004 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

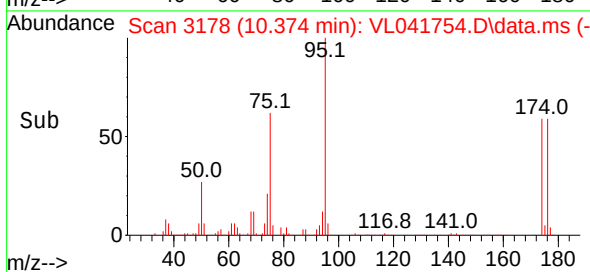
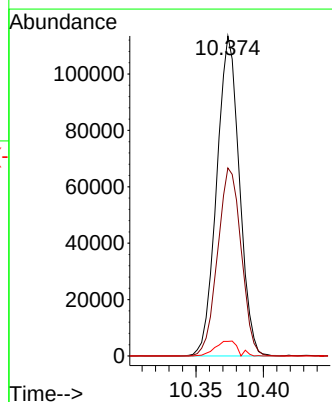
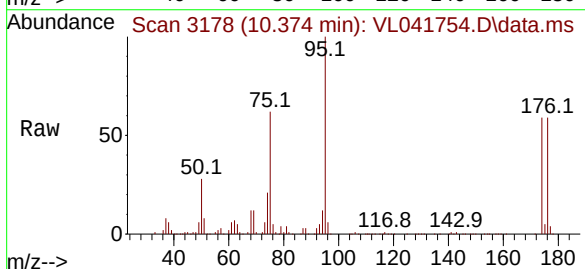
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

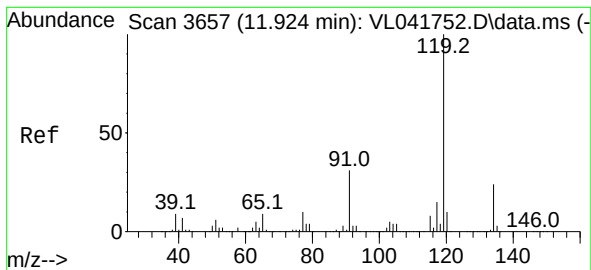
Tgt Ion:105 Resp: 45015
Ion Ratio Lower Upper
105 100
134 18.8 14.5 21.7



#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

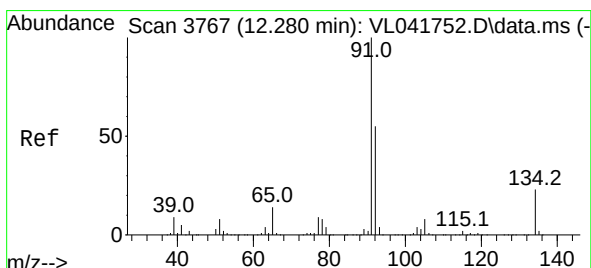
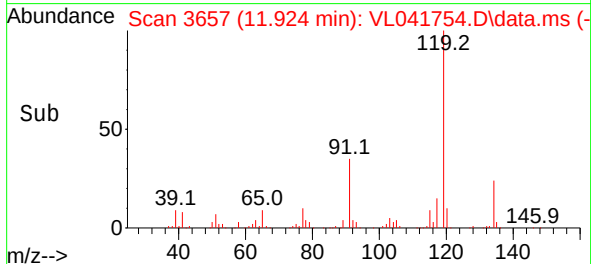
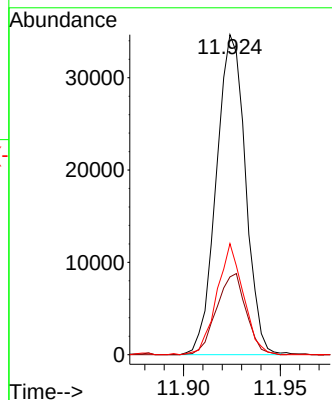
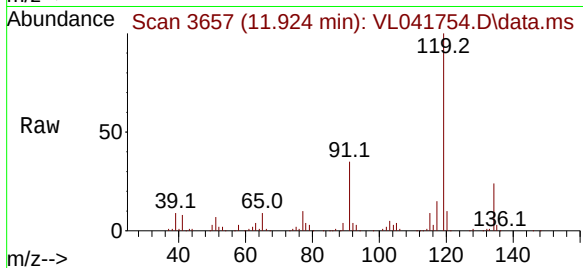
Tgt Ion:119 Resp: 36298

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

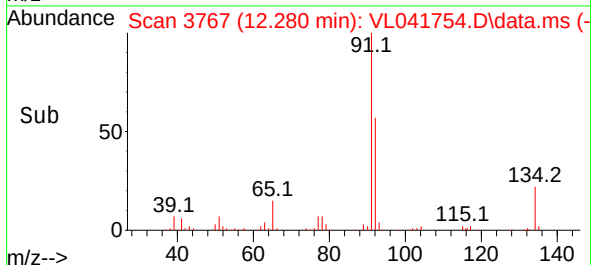
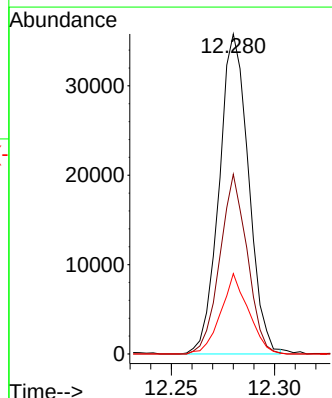
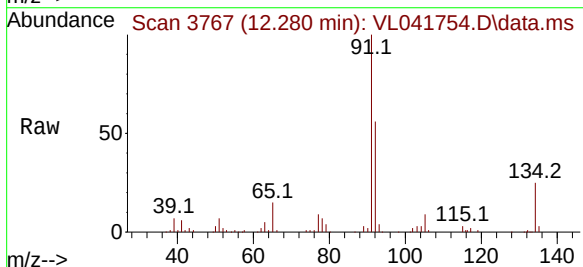
Tgt Ion: 91 Resp: 35432

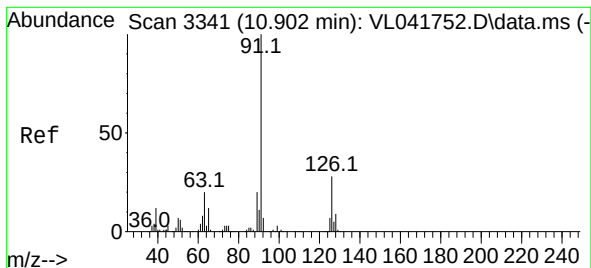
Ion Ratio Lower Upper

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 :

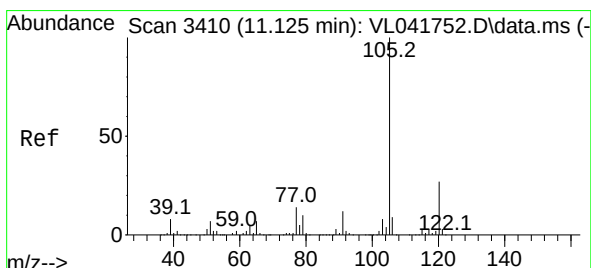
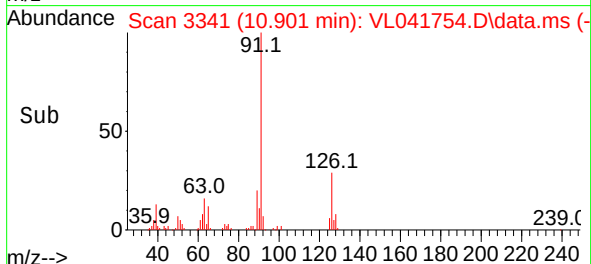
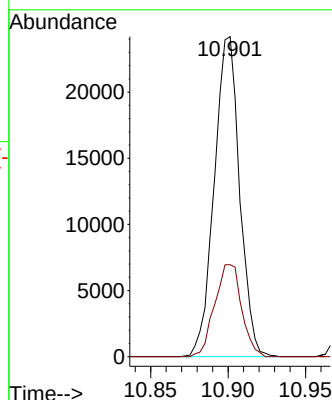
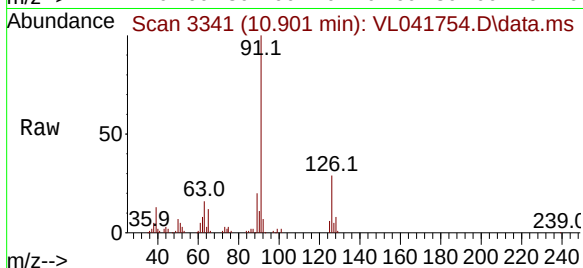
VSTDIC001

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

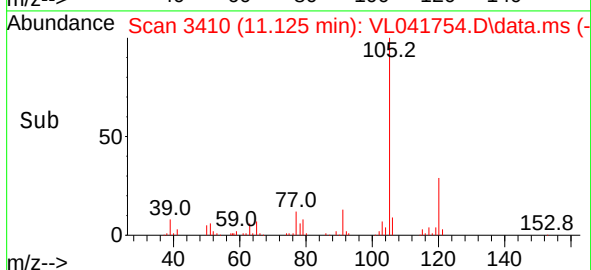
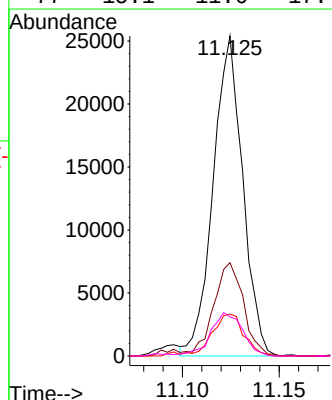
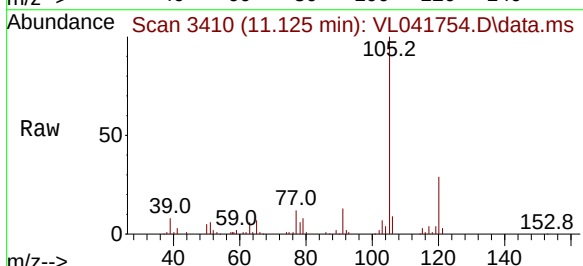
Ion Ratio Lower Upper

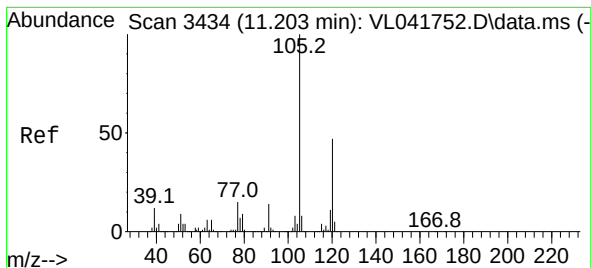
105 100

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_1

ClientSampleId :

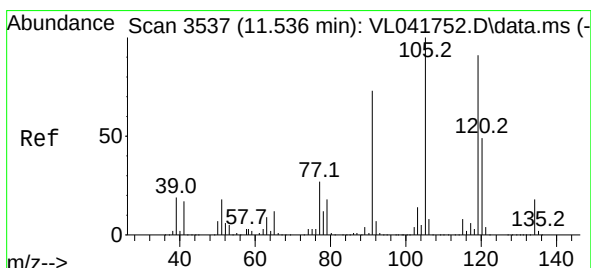
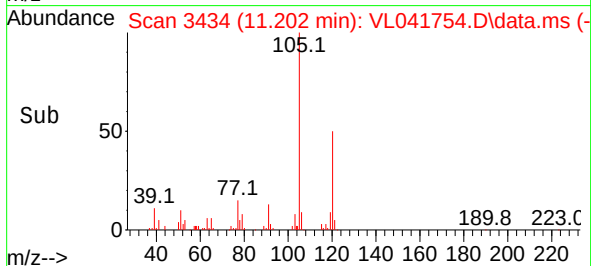
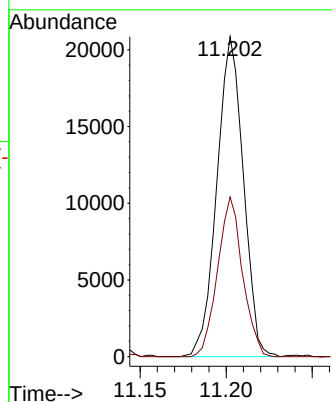
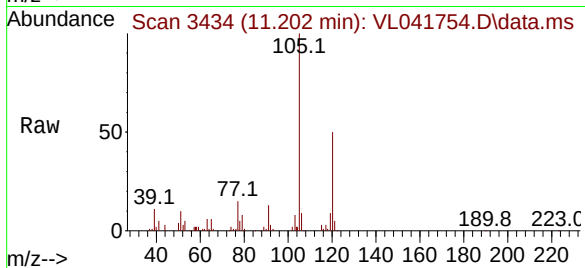
VSTDIC001

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

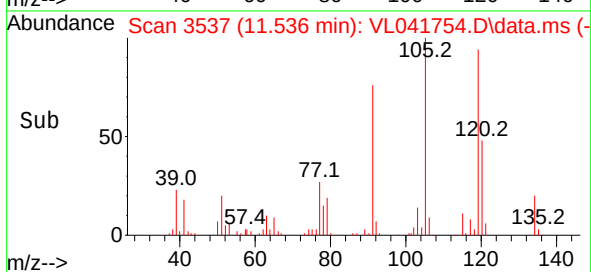
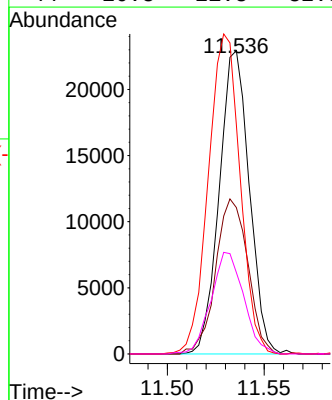
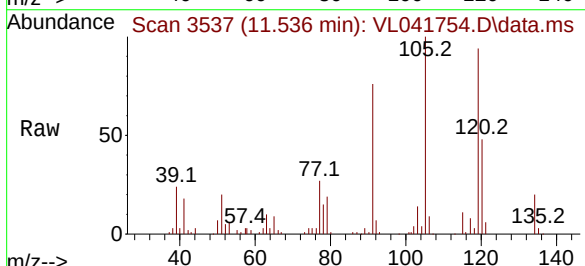
Ion Ratio Lower Upper

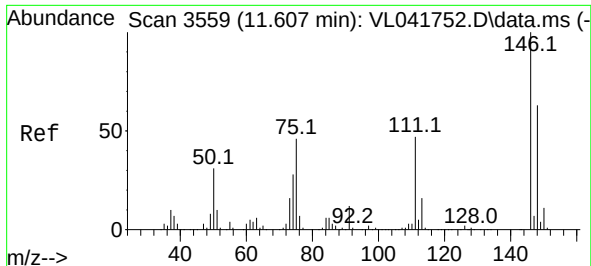
105 100

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# 3559

Delta R.T. -0.004 min

Lab File: VL041754.D

Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

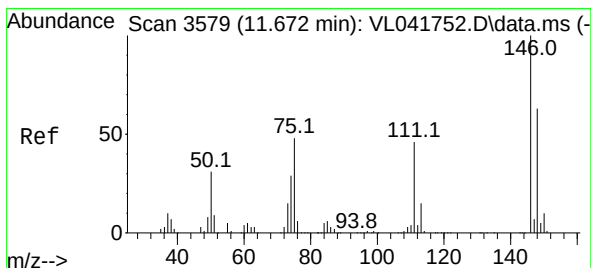
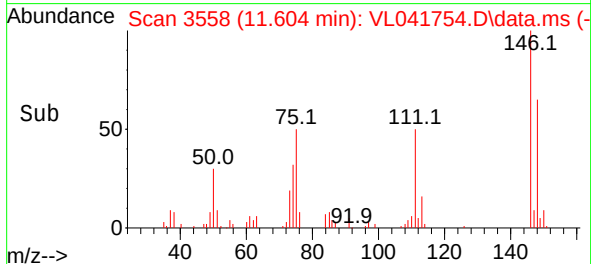
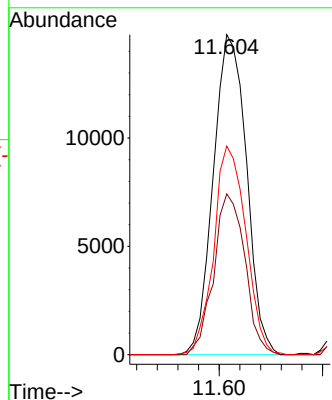
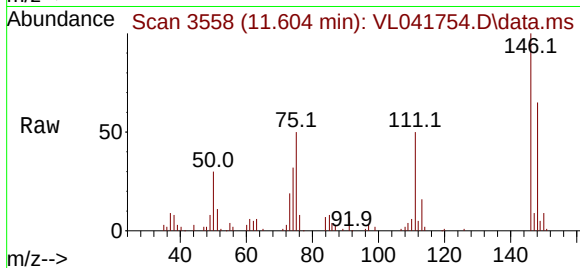
Tgt Ion:146 Resp: 16476

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

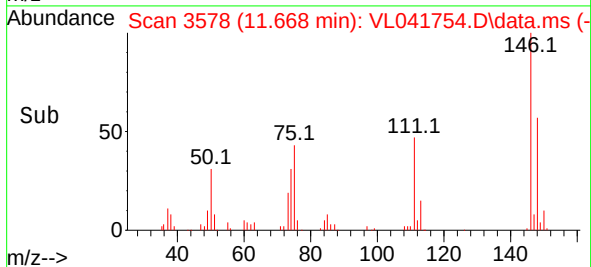
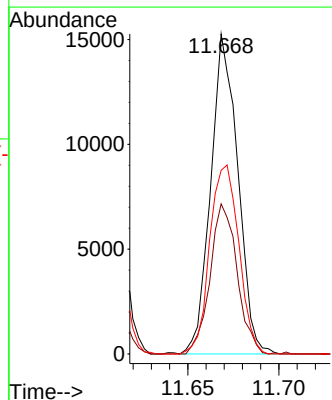
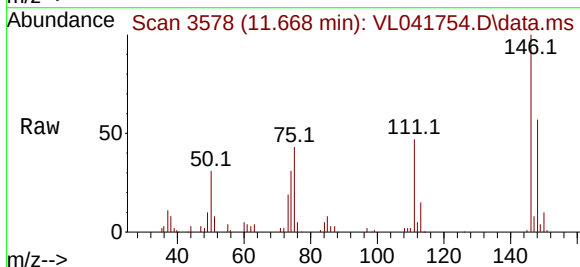
Tgt Ion:146 Resp: 15774

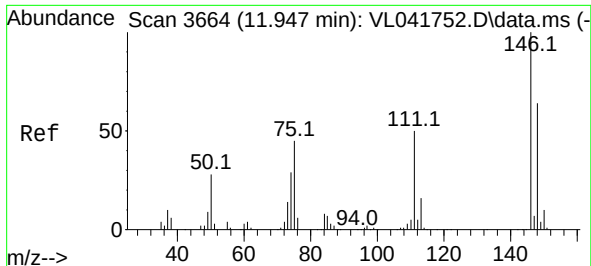
Ion Ratio Lower Upper

146 100

111 47.0 22.7 68.1

148 63.4 31.4 94.0

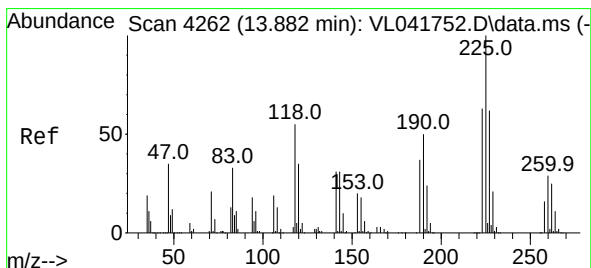
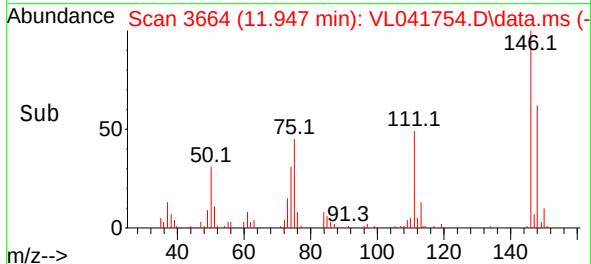
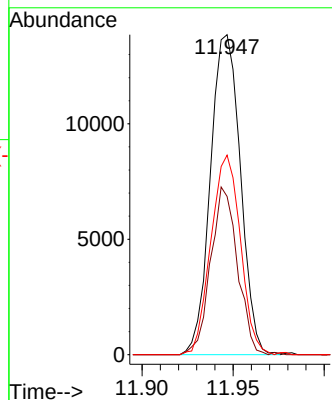
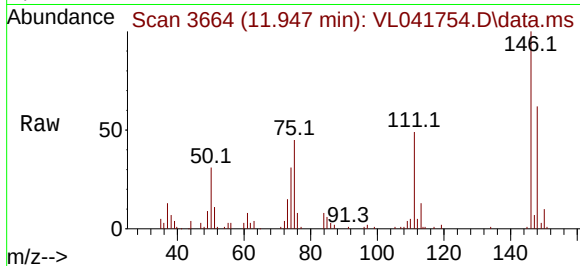




#77
1,2-Dichlorobenzene
Concen: 1.043 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041754.D
Acq: 16 Dec 2024 14:34

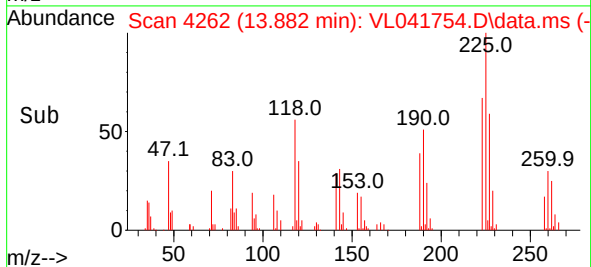
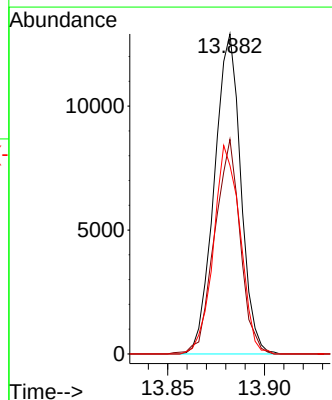
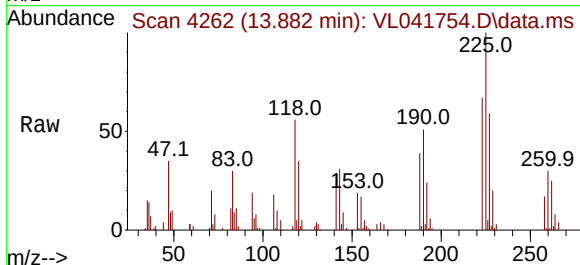
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

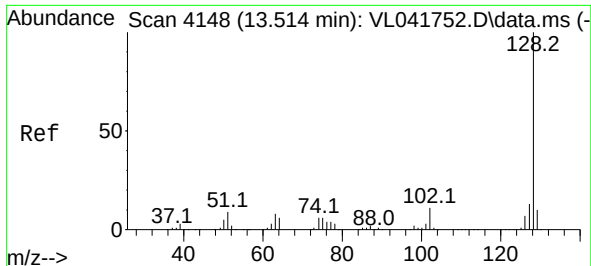
Tgt Ion:146 Resp: 15866
Ion Ratio Lower Upper
146 100
111 47.0 24.8 74.3
148 61.6 31.8 95.4



#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

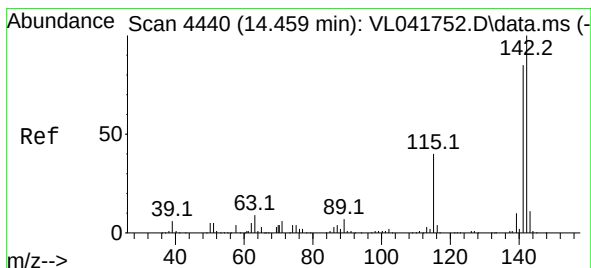
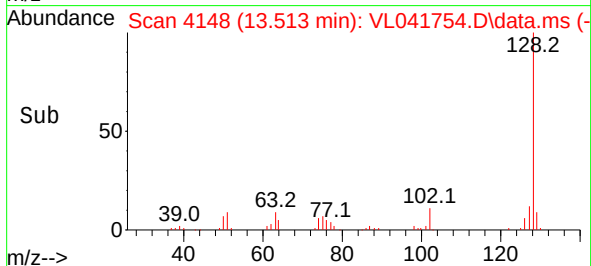
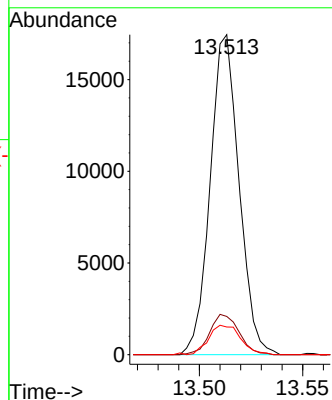
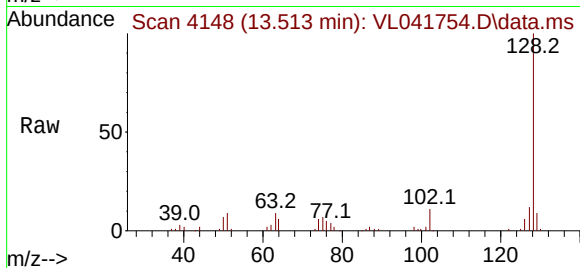
Tgt Ion:128 Resp: 16971

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

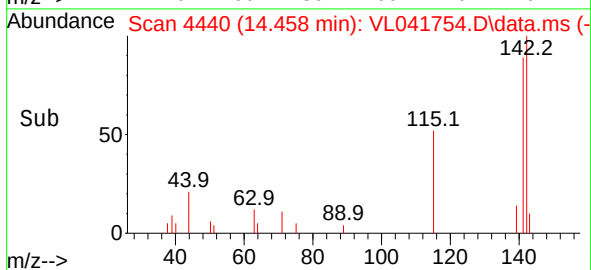
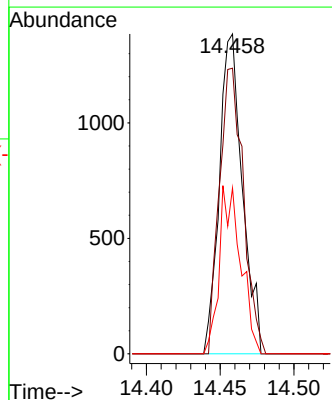
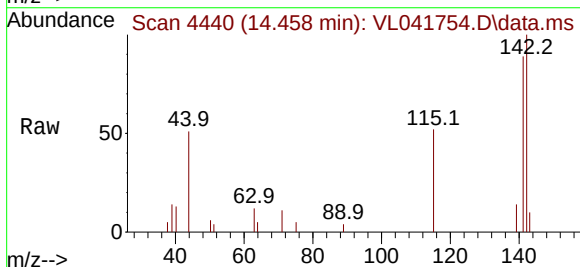
Tgt Ion:142 Resp: 1504

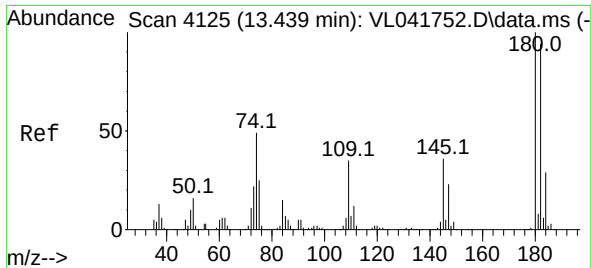
Ion Ratio Lower Upper

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

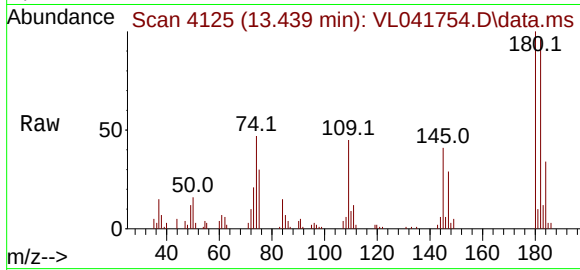
Acq: 16 Dec 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



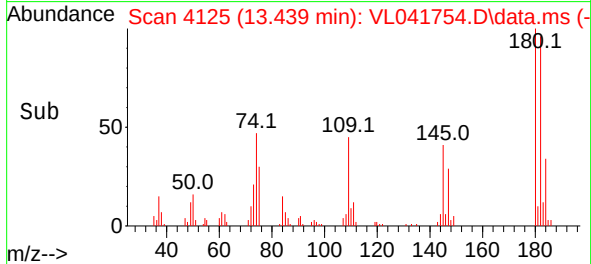
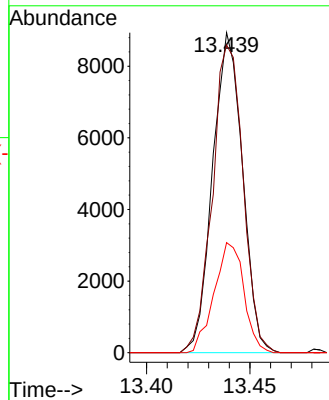
Tgt Ion:180 Resp: 8973

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 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	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

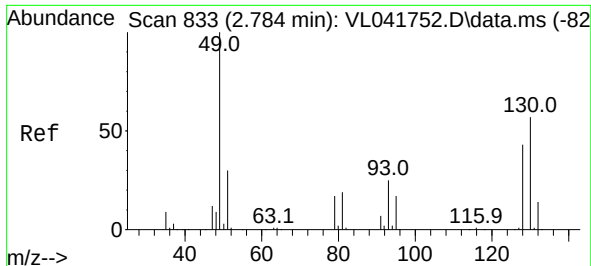
Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

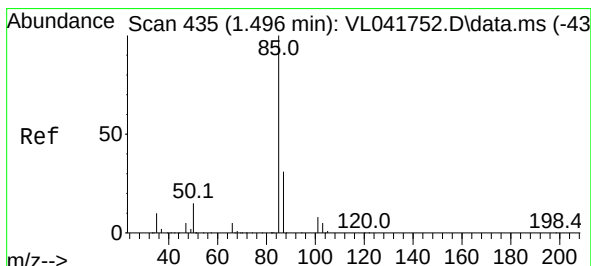
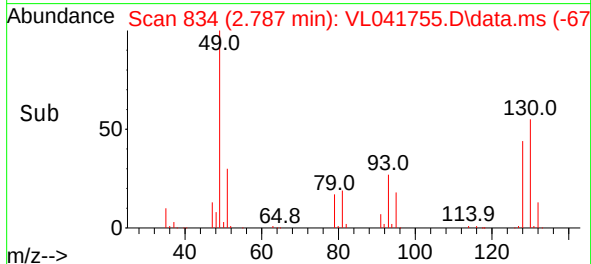
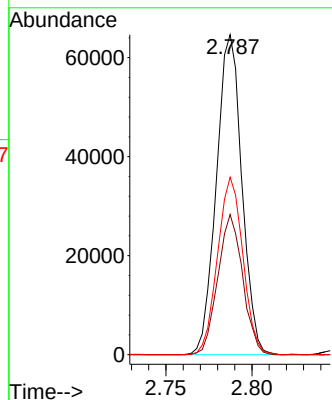
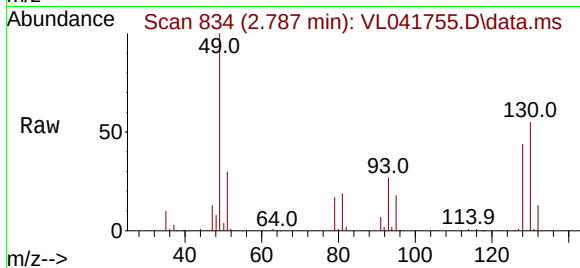




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

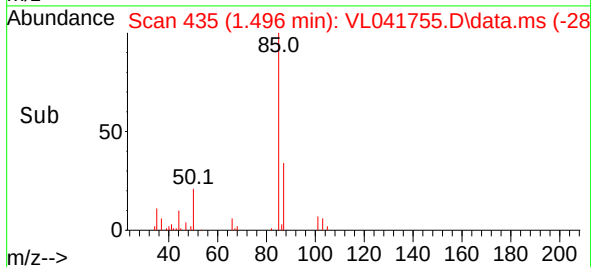
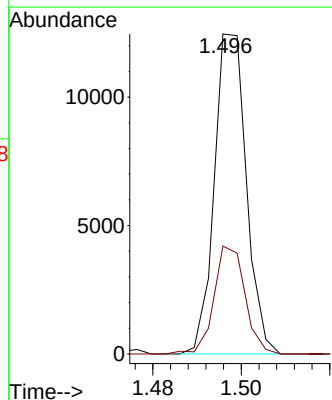
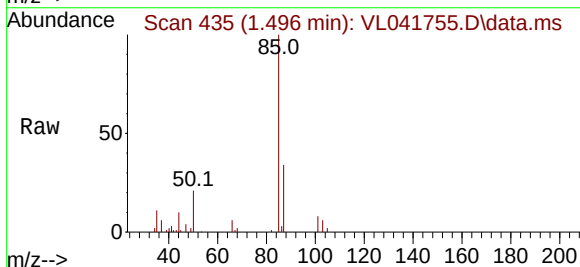
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

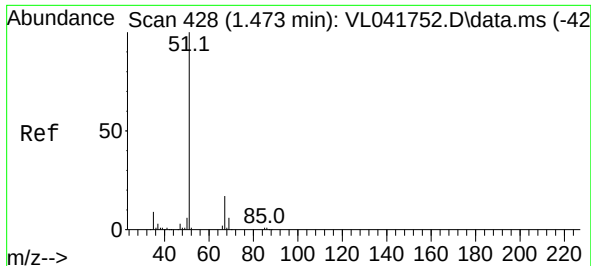
Tgt Ion: 49 Resp: 66562
Ion Ratio Lower Upper
49 100
128 42.6 21.6 64.6
130 55.1 28.3 85.0



#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

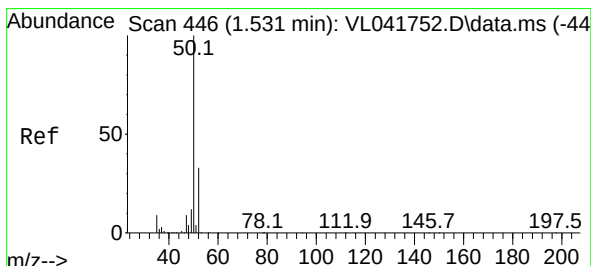
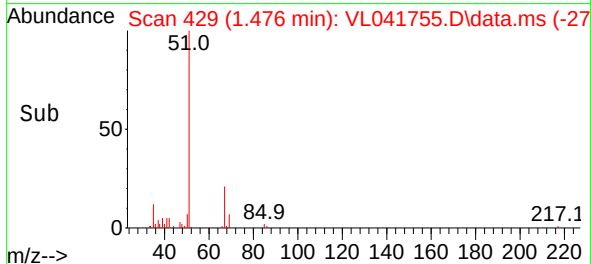
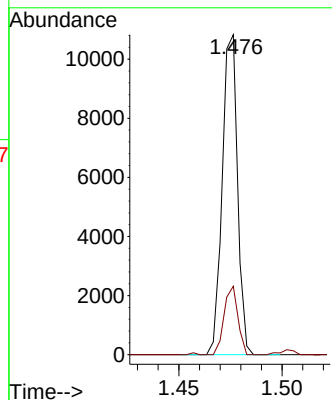
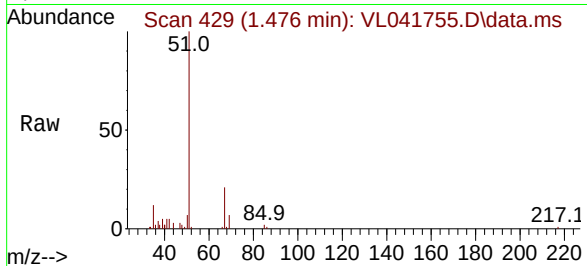




#3
Chlorodifluoromethane
Concen: 0.515 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

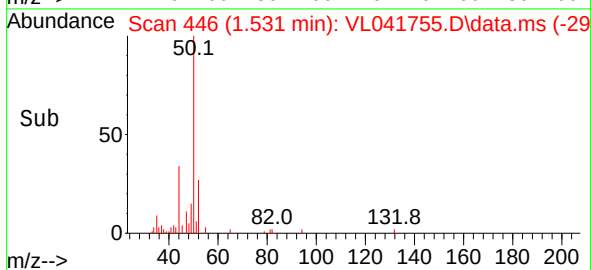
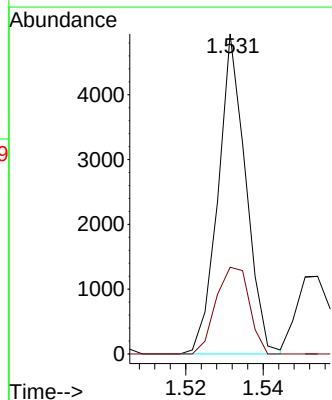
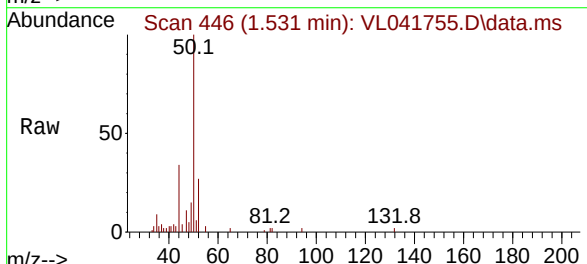
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

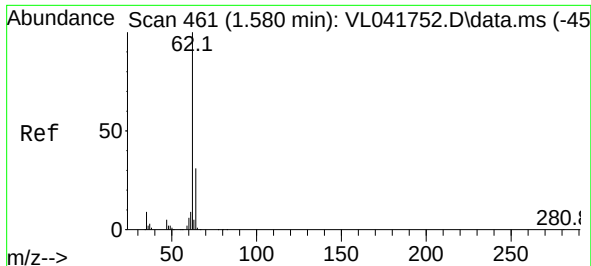
Tgt Ion: 51 Resp: 5587
Ion Ratio Lower Upper
51 100
67 21.0 15.0 22.4



#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

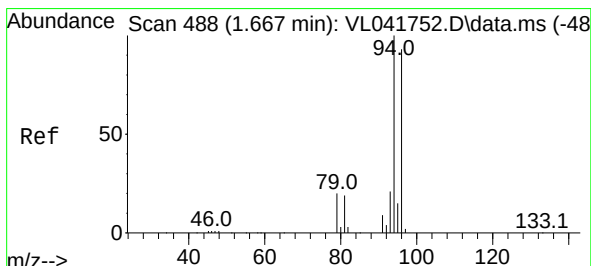
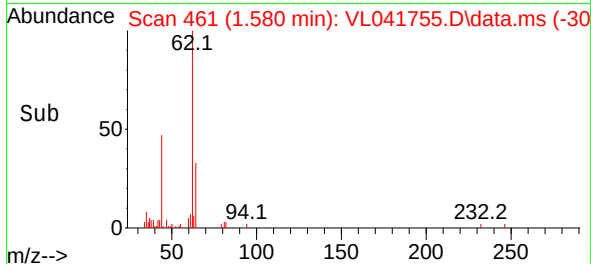
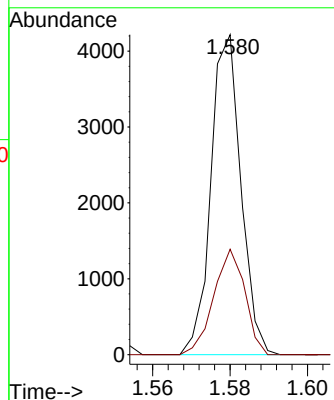
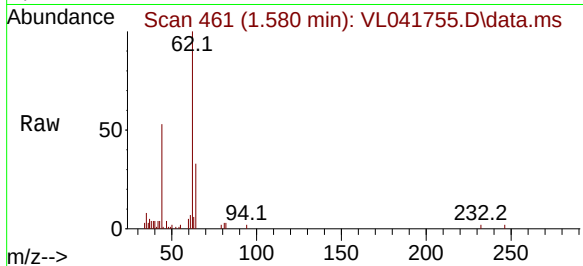




#5
 Vinyl Chloride
 Concen: 0.486 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

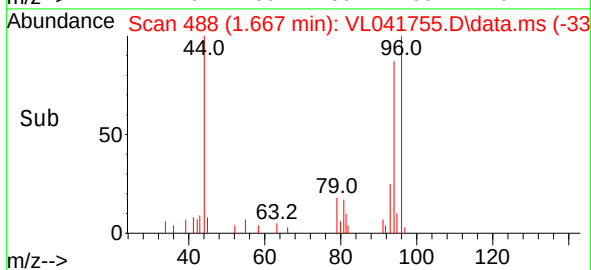
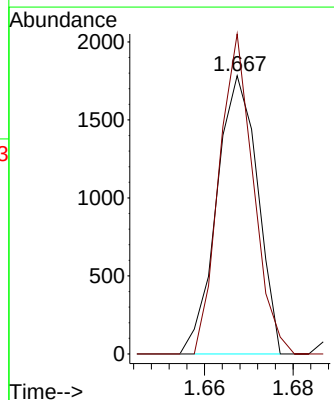
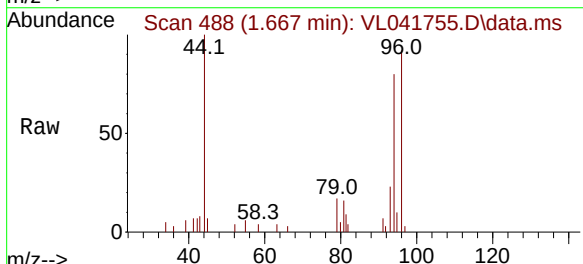
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

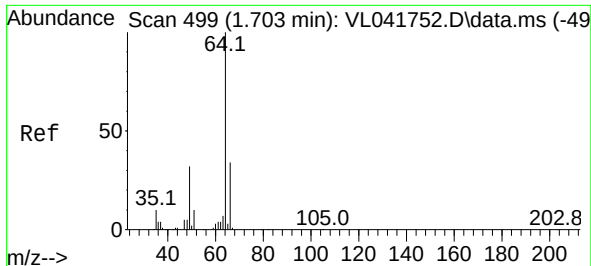
Tgt Ion: 62 Resp: 2269
 Ion Ratio Lower Upper
 62 100
 64 32.9 25.1 37.7



#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#

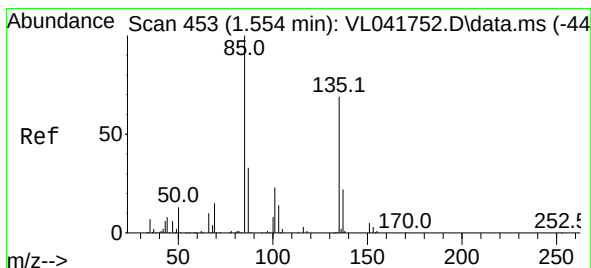
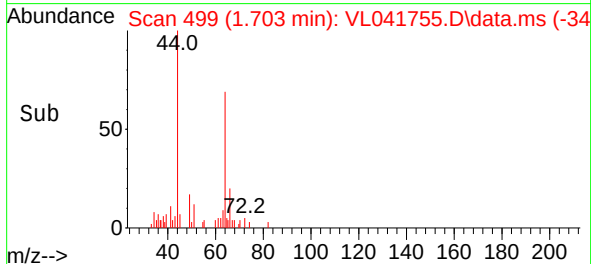
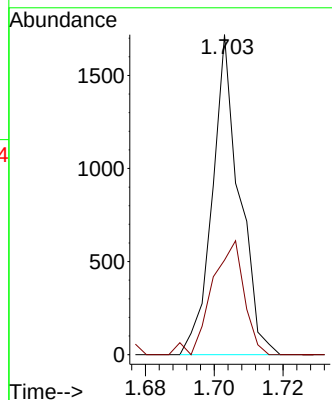
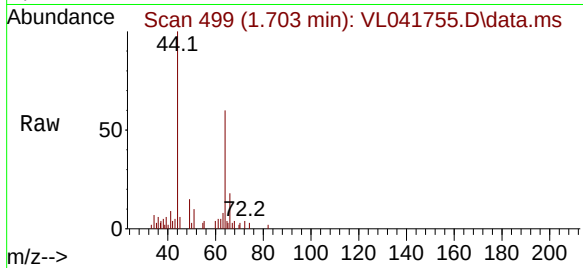




#7
Chloroethane
Concen: 0.518 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

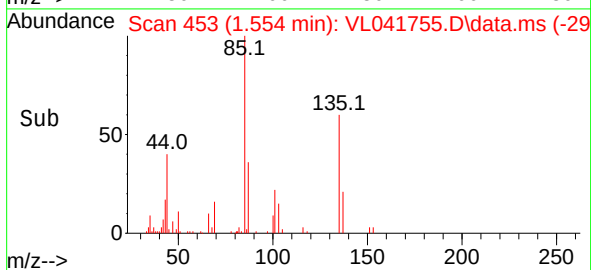
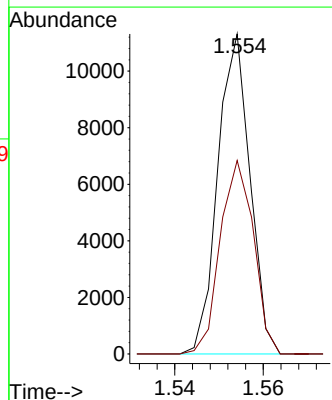
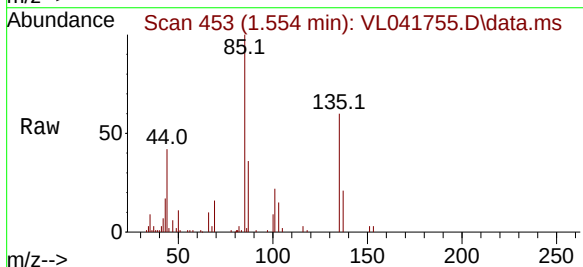
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

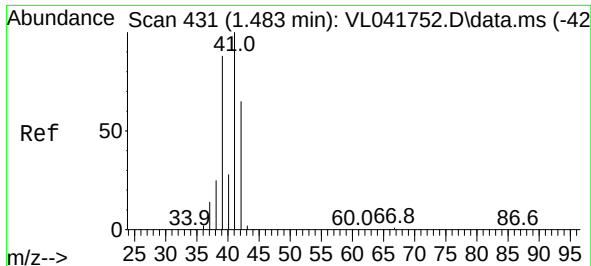
Tgt Ion: 64 Resp: 939
Ion Ratio Lower Upper
64 100
66 27.6 27.5 41.3



#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 :

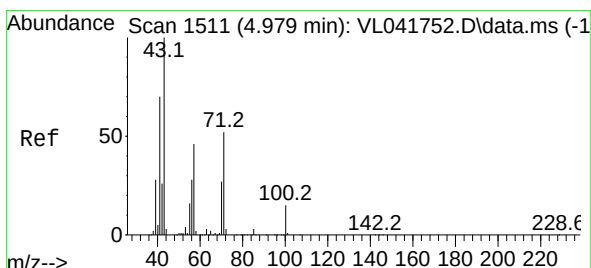
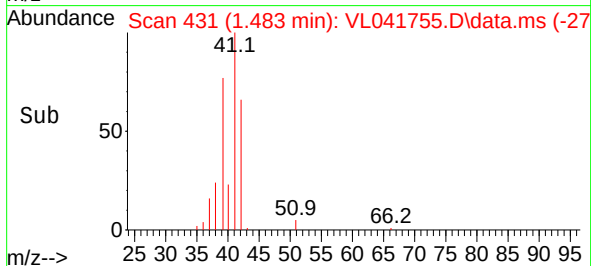
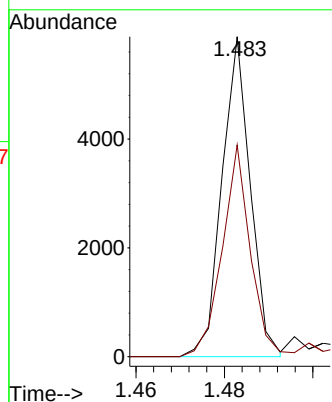
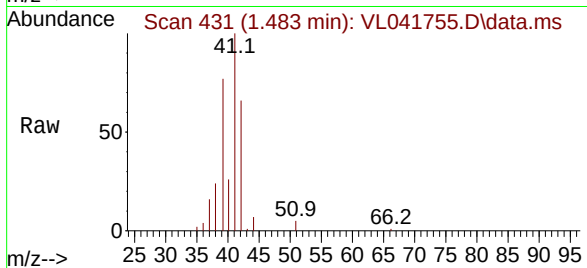
VSTDIC0.5

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

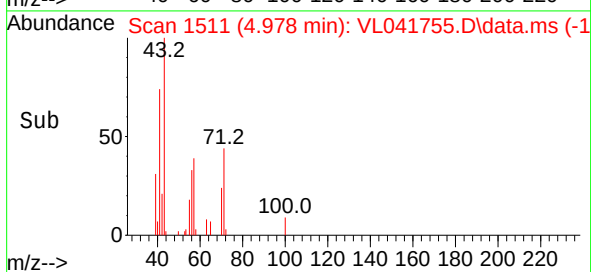
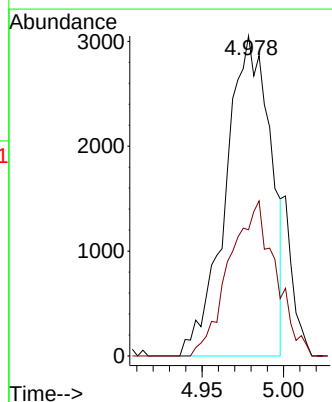
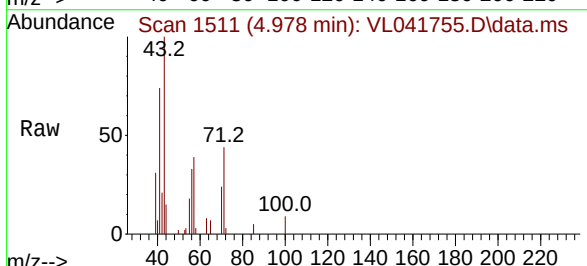
Acq: 16 Dec 2024 15:05

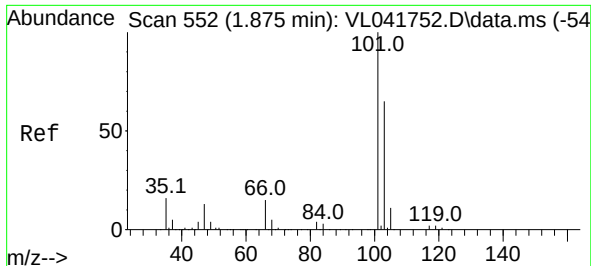
Tgt Ion: 43 Resp: 5865

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 :

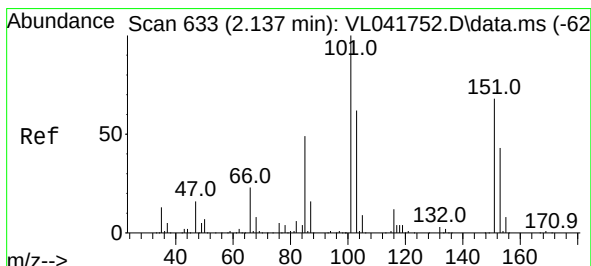
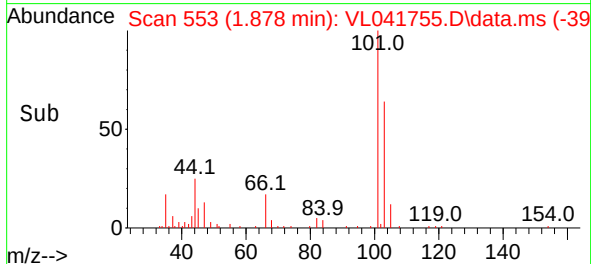
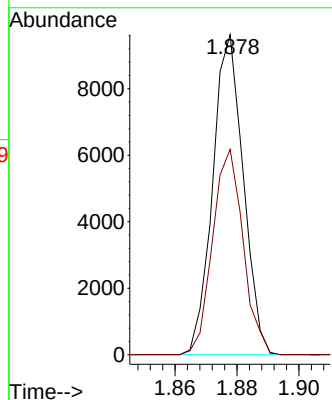
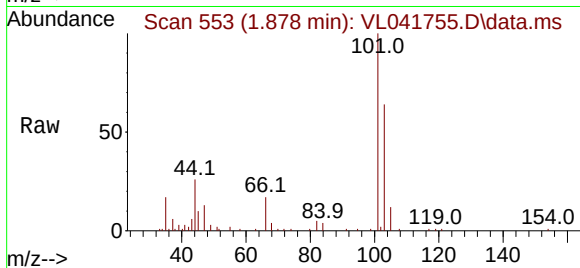
VSTDIC0.5

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

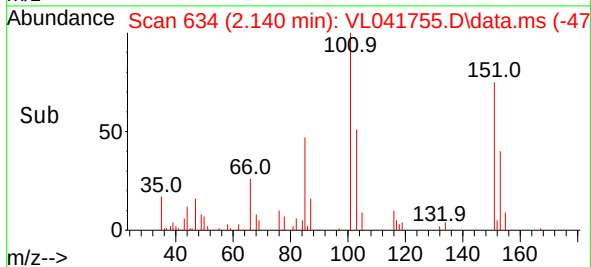
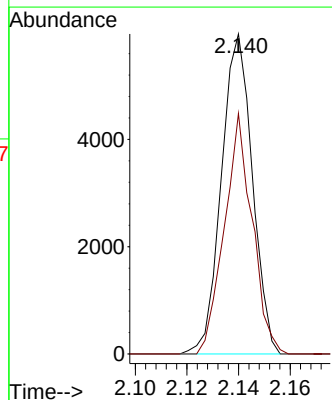
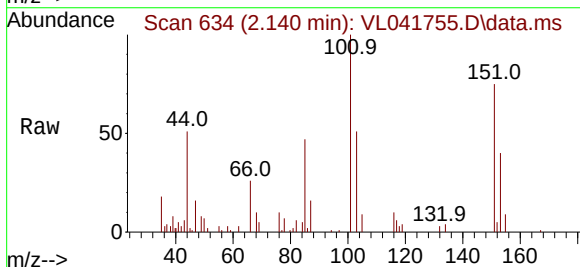
Acq: 16 Dec 2024 15:05

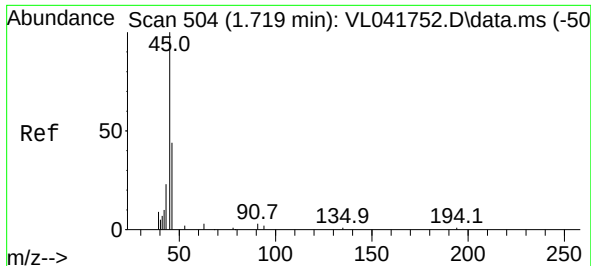
Tgt Ion:101 Resp: 4962

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 :

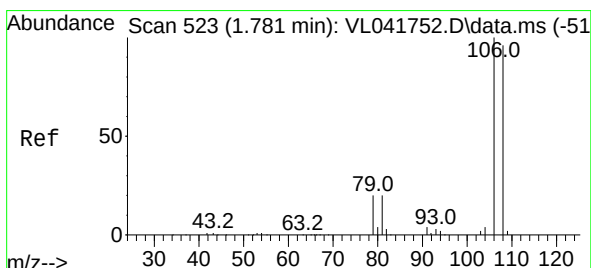
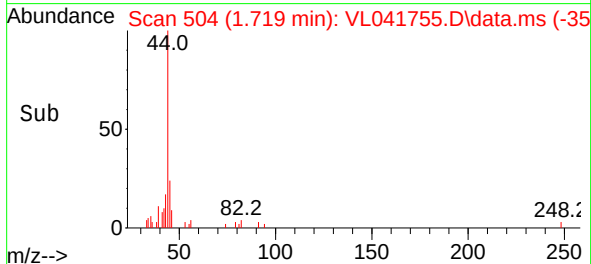
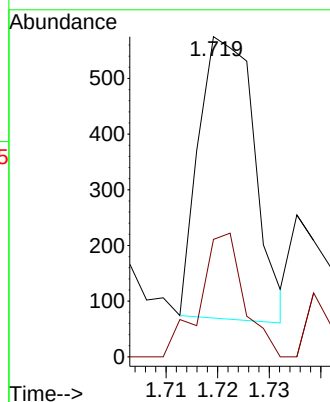
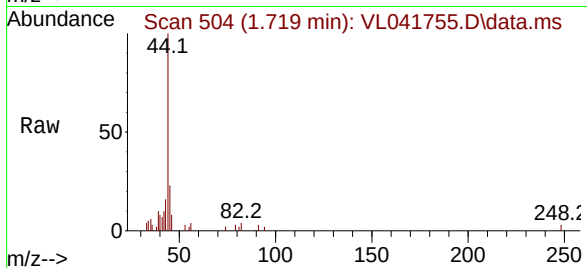
VSTDIC0.5

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

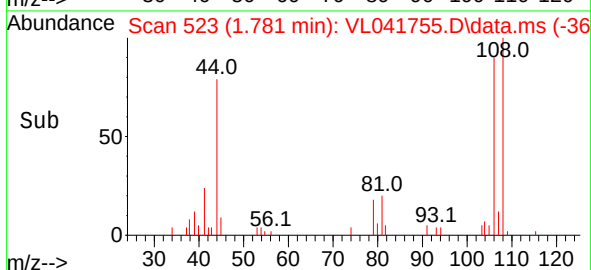
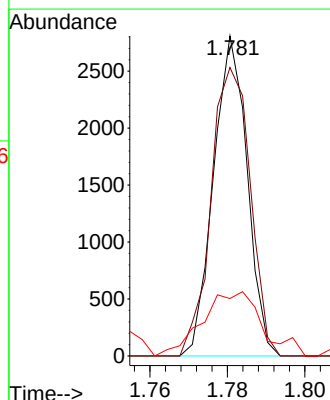
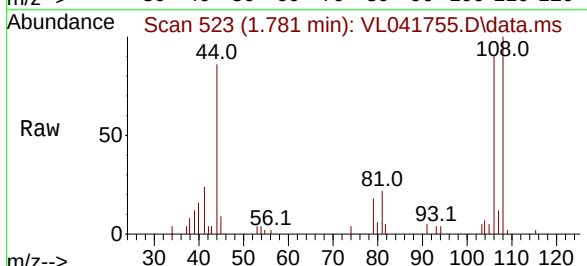
Tgt Ion:108 Resp: 1694

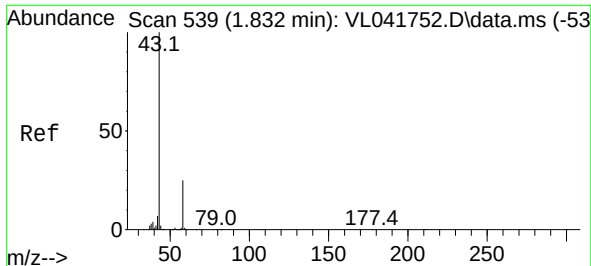
Ion Ratio Lower Upper

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 :

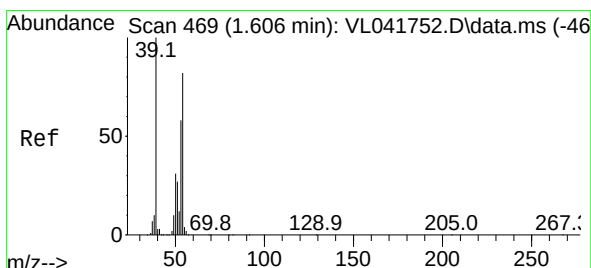
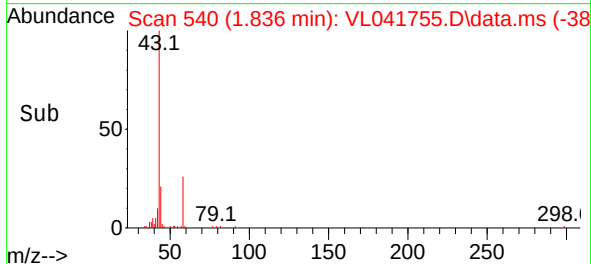
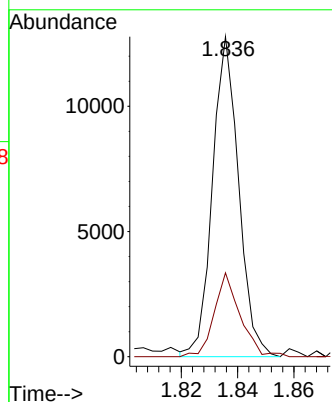
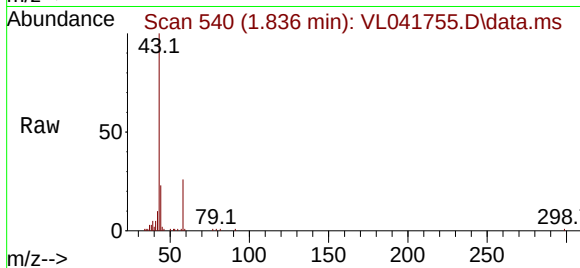
VSTDIC0.5

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

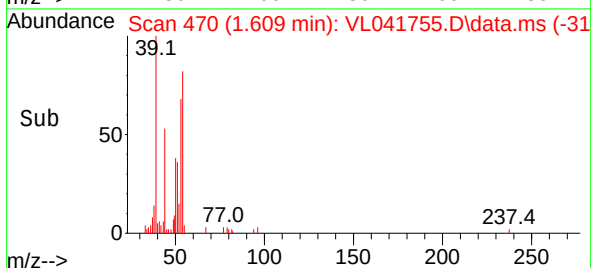
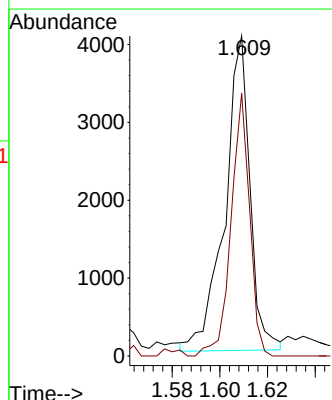
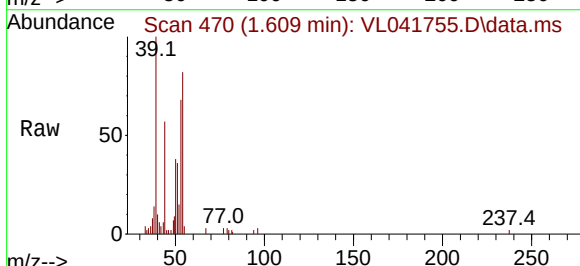
Acq: 16 Dec 2024 15:05

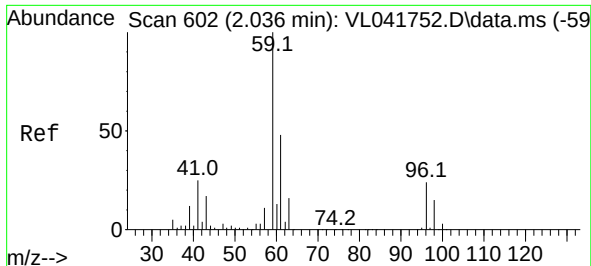
Tgt Ion: 39 Resp: 2966

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# 602

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

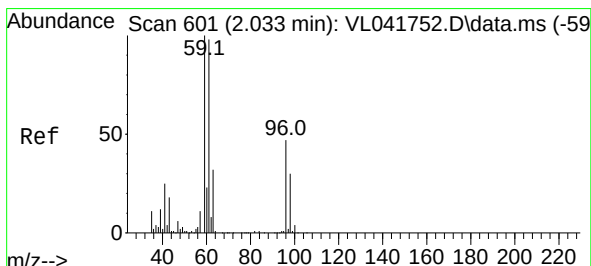
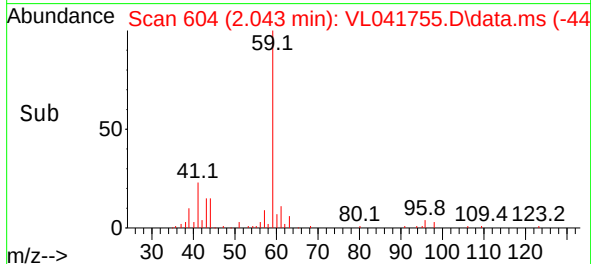
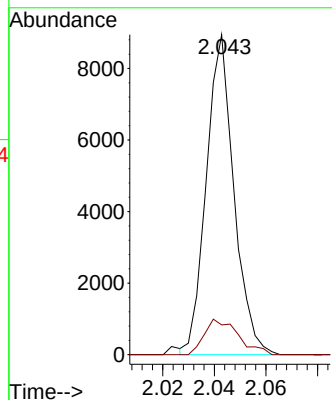
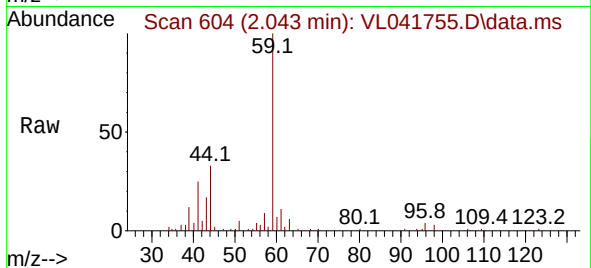
VSTDICC0.5

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

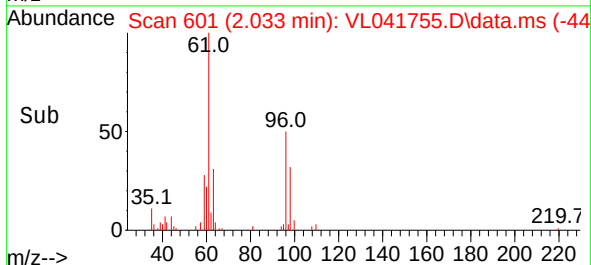
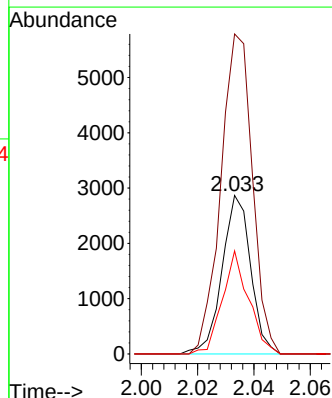
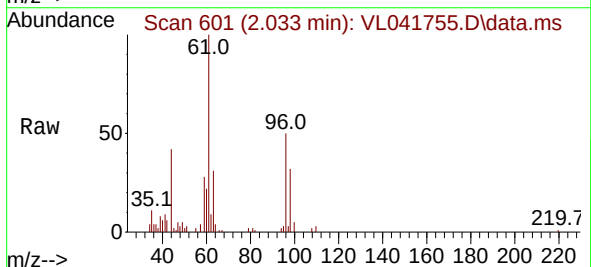
Tgt Ion: 96 Resp: 2022

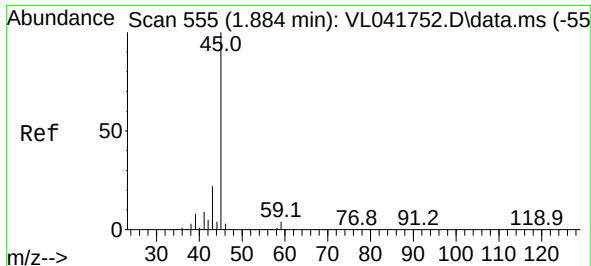
Ion Ratio Lower Upper

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 :

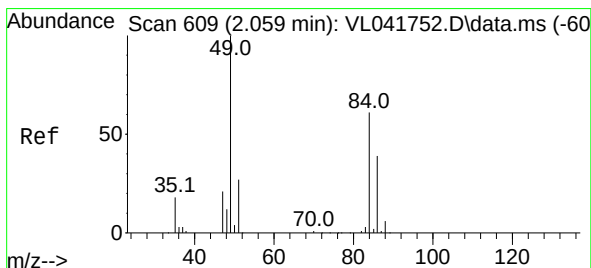
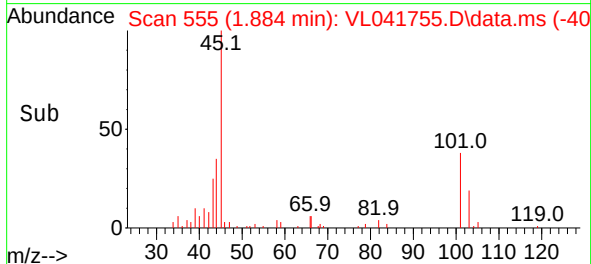
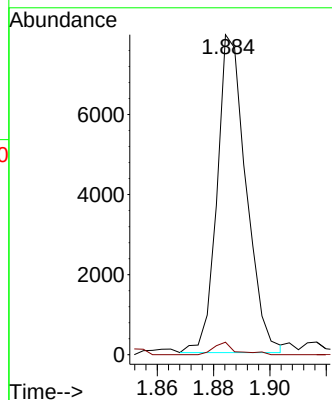
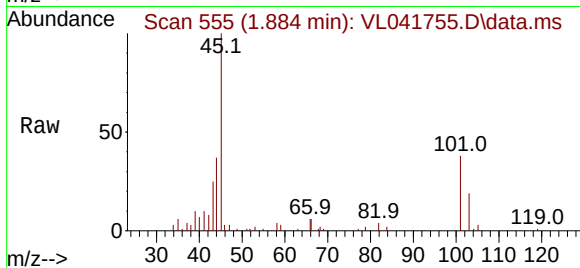
VSTDIC0.5

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

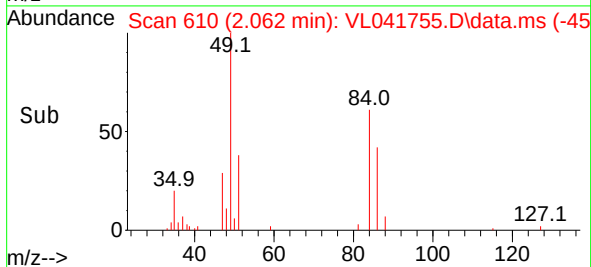
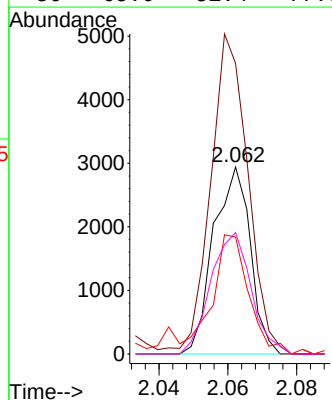
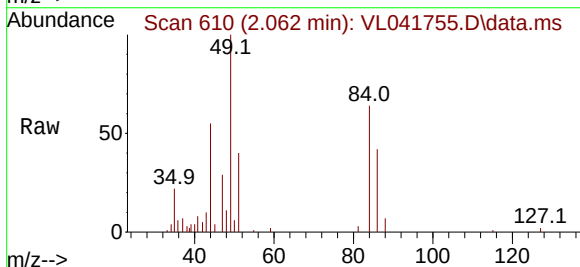
Ion Ratio Lower Upper

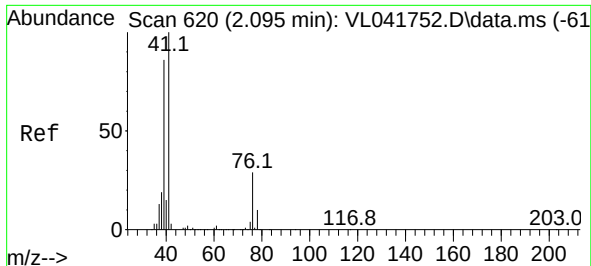
84 100

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

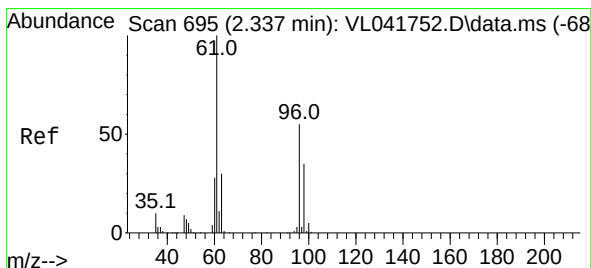
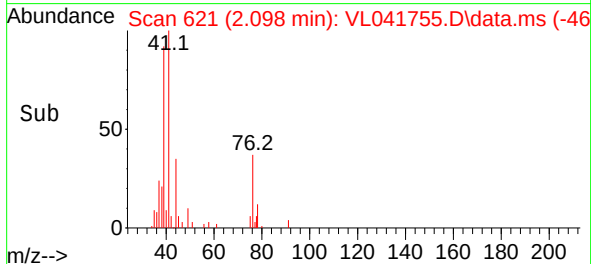
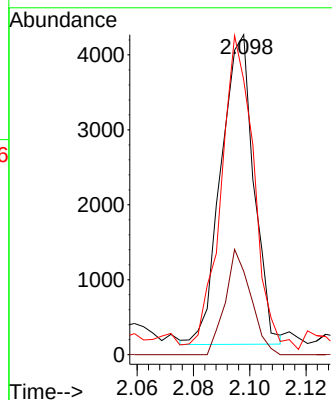
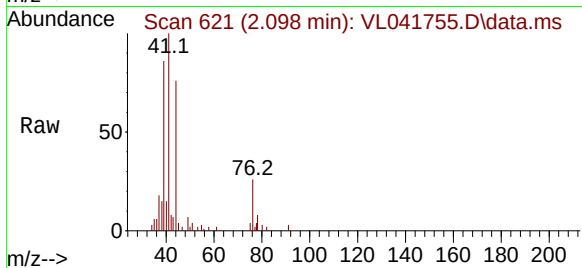
Tgt Ion: 41 Resp: 3354

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

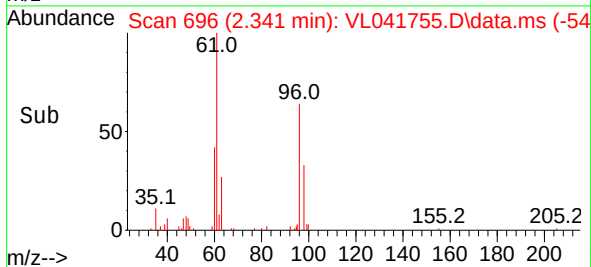
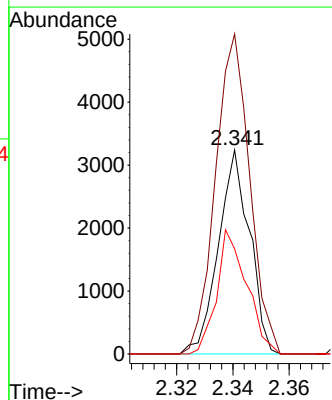
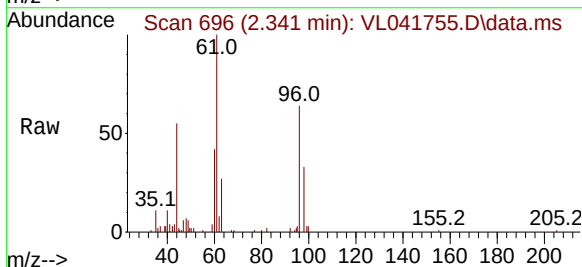
Tgt Ion: 96 Resp: 2494

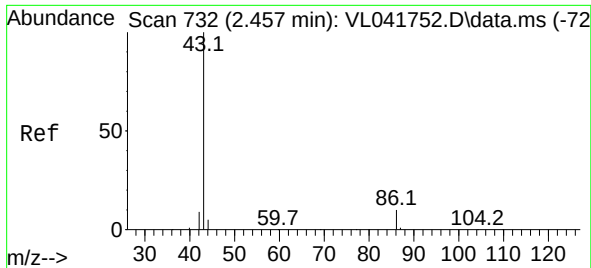
Ion Ratio Lower Upper

96 100

61 156.8 146.3 219.5

98 51.6 50.8 76.2

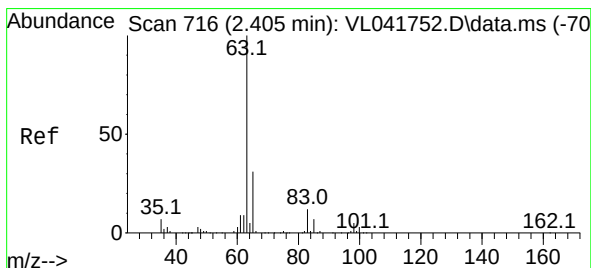
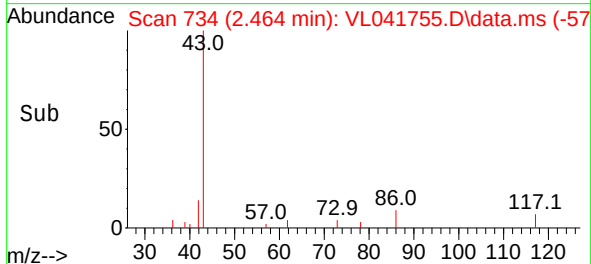
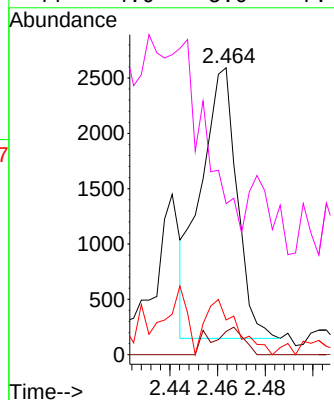
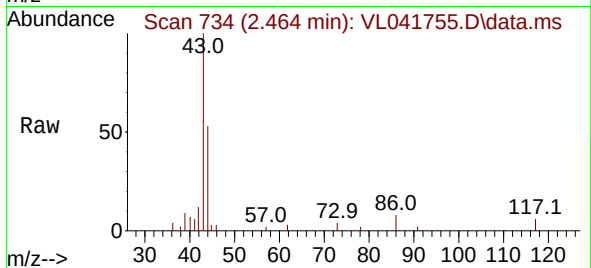




#23
 Vinyl Acetate
 Concen: 0.462 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

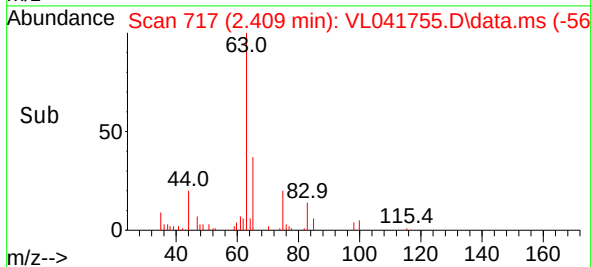
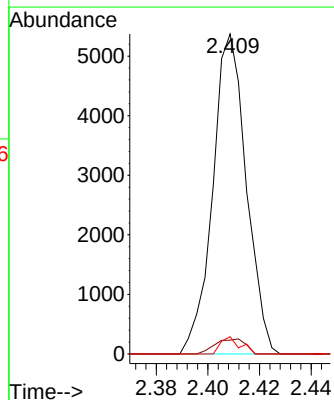
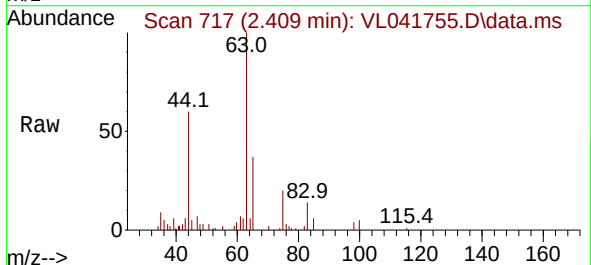
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

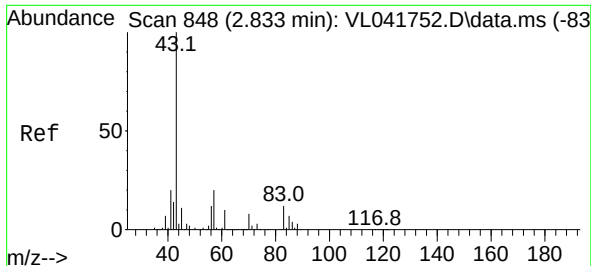
Tgt Ion: 43	Resp: 2599
Ion Ratio	Lower Upper
43 100	
86 8.6	6.6 10.0
42 10.2	8.2 12.2
44 4.0	5.0 7.4#



#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

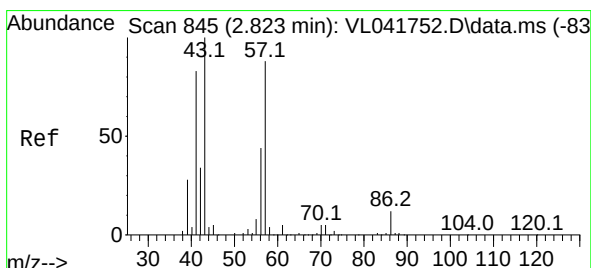
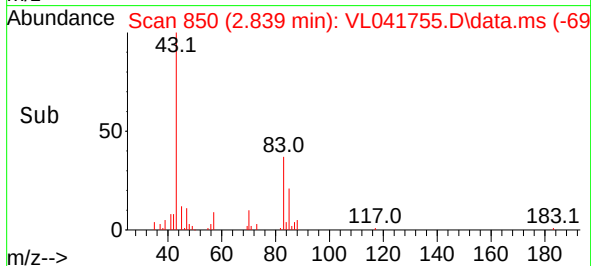
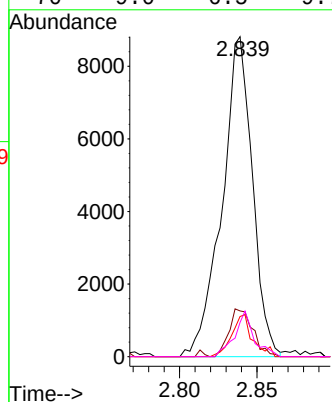
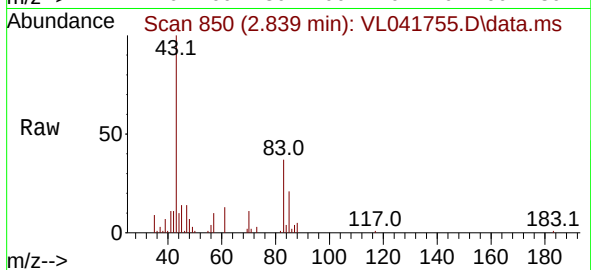
Ion Ratio Lower Upper

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

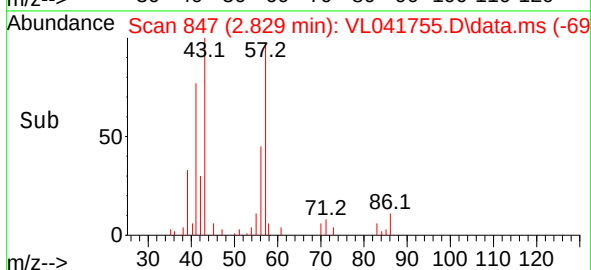
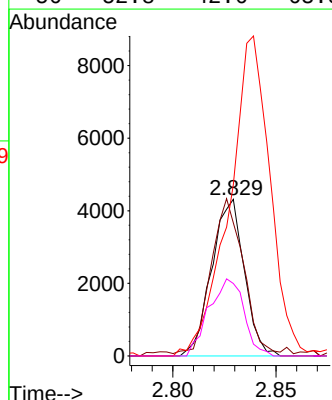
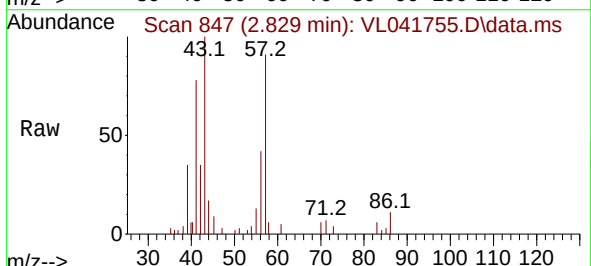
Ion Ratio Lower Upper

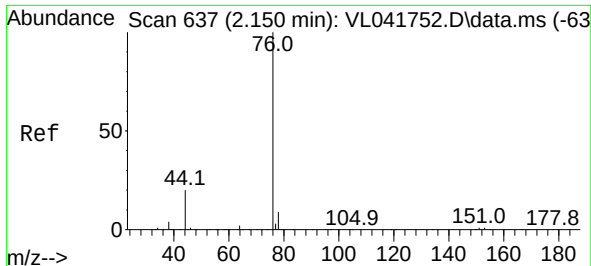
57 100

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

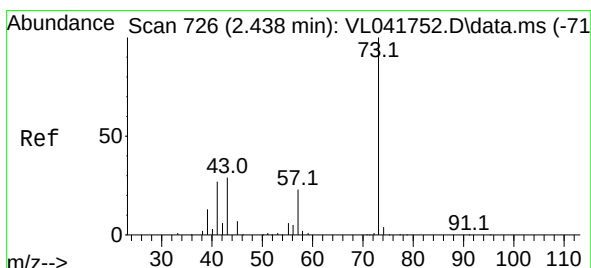
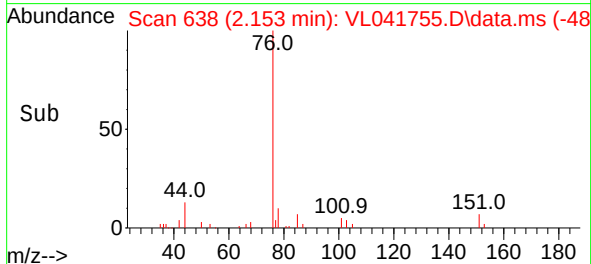
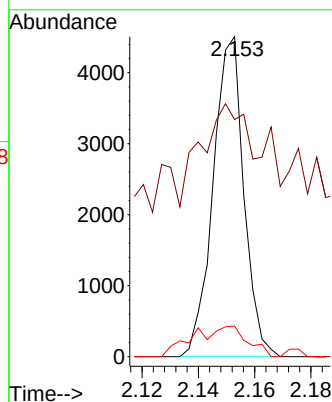
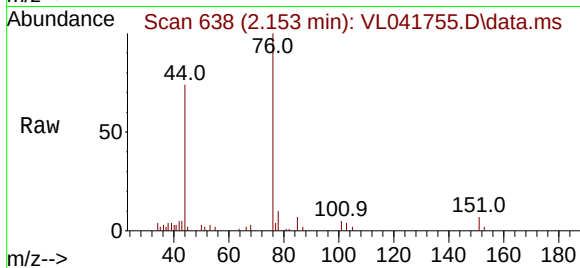
Tgt Ion: 76 Resp: 3409

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

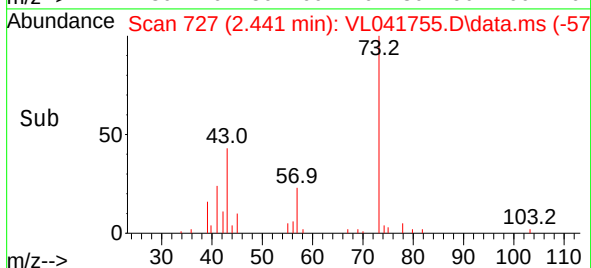
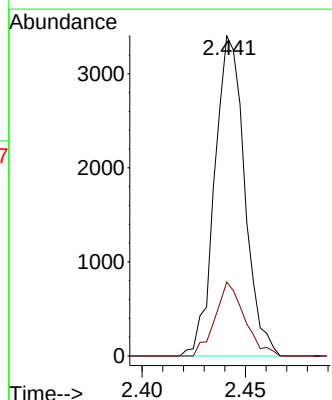
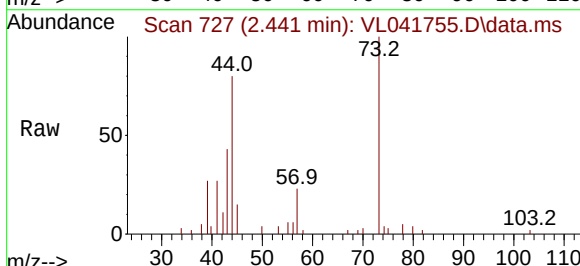
Acq: 16 Dec 2024 15:05

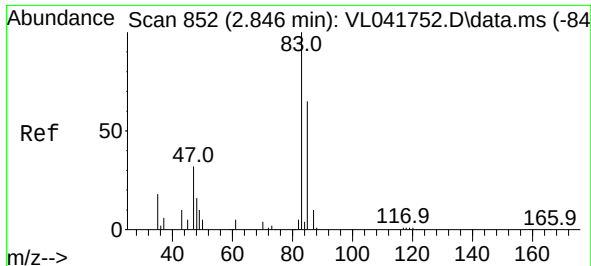
Tgt Ion: 73 Resp: 3438

Ion Ratio Lower Upper

73 100

57 22.6 17.6 26.4





#29

Chloroform

Concen: 0.515 ppbv

RT: 2.849 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

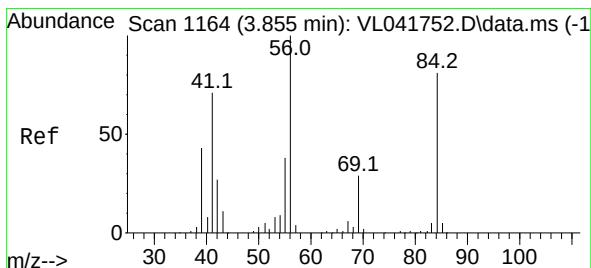
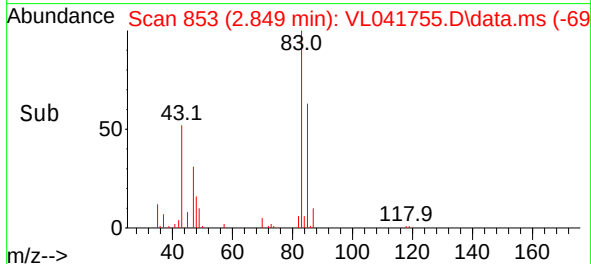
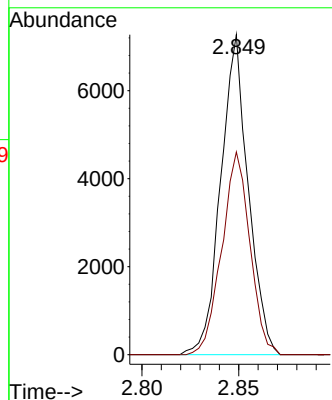
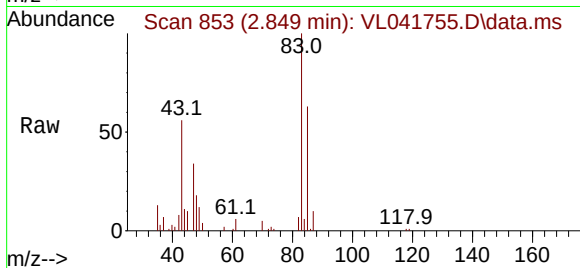
VSTDIC0.5

Tgt Ion: 83 Resp: 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

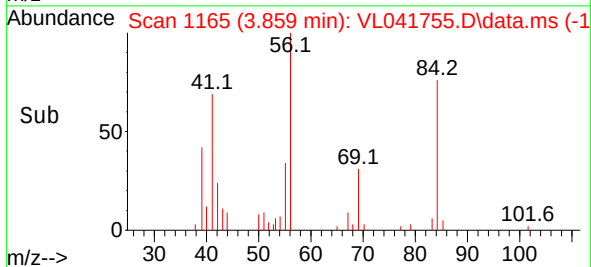
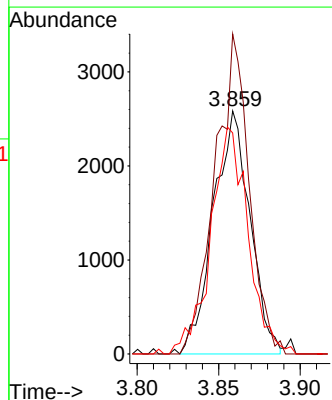
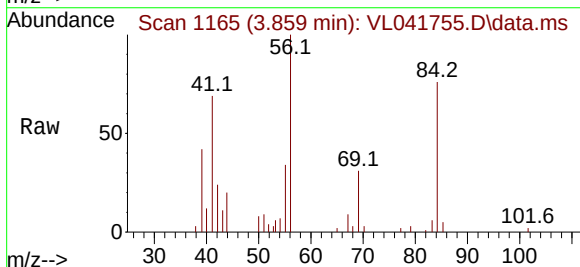
Tgt Ion: 84 Resp: 4051

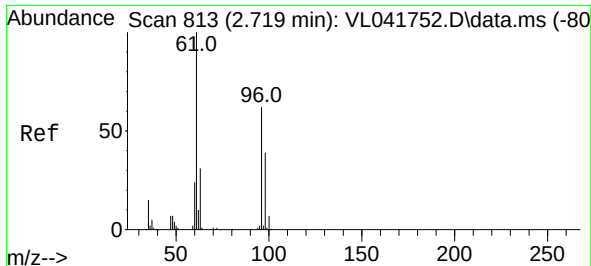
Ion Ratio Lower Upper

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

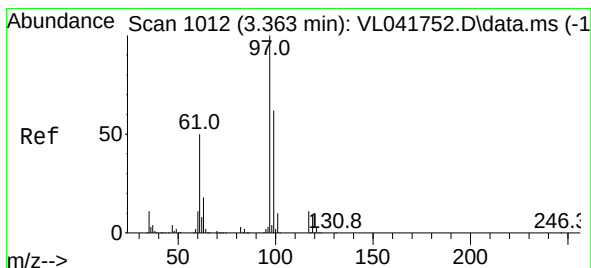
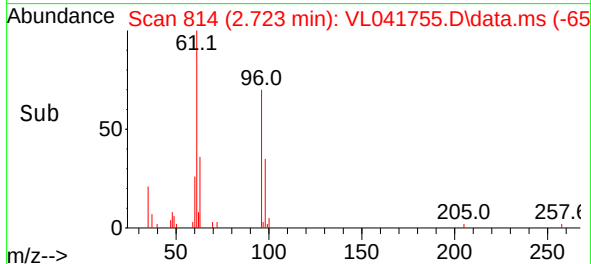
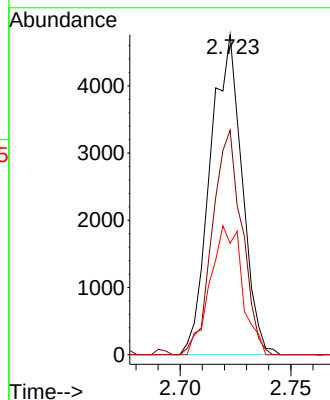
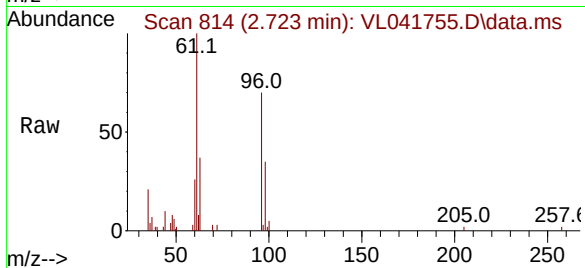
Tgt Ion: 61 Resp: 4758

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

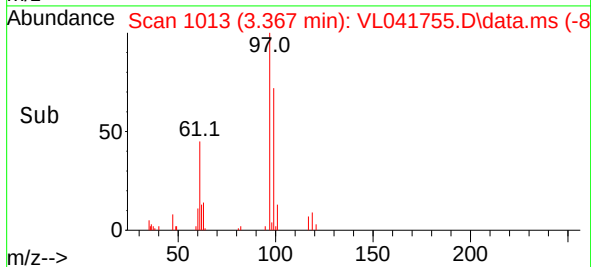
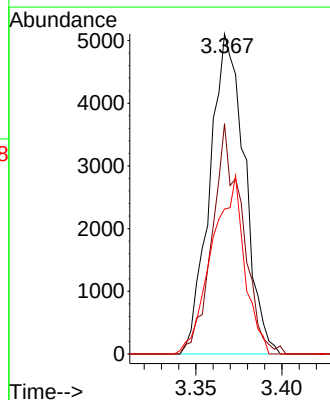
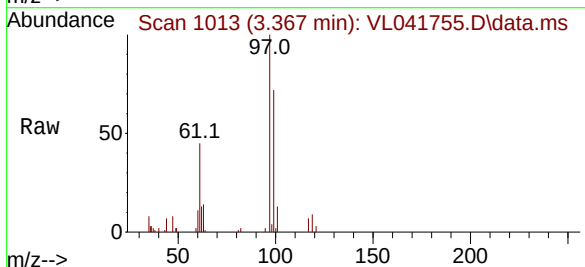
Tgt Ion: 97 Resp: 7182

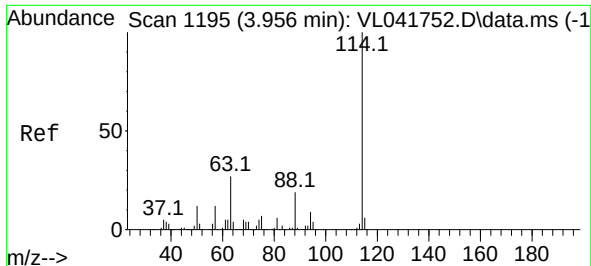
Ion Ratio Lower Upper

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_1

ClientSampleId :

VSTDICC0.5

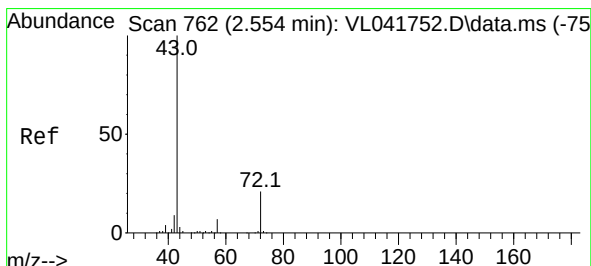
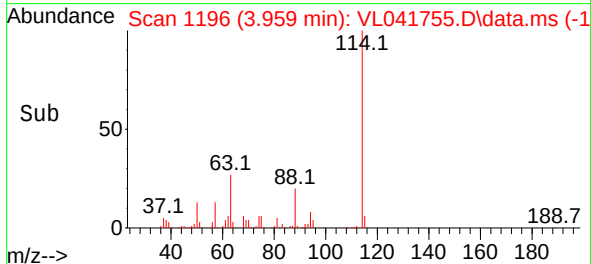
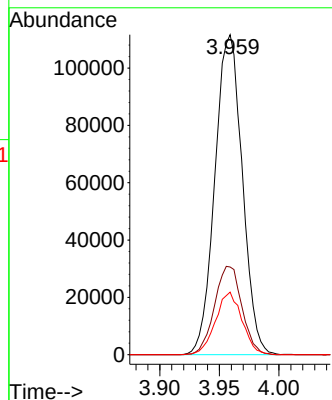
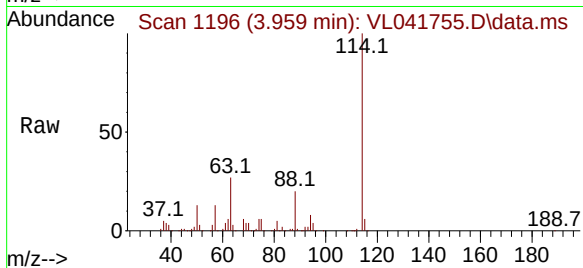
Tgt Ion:114 Resp: 178453

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

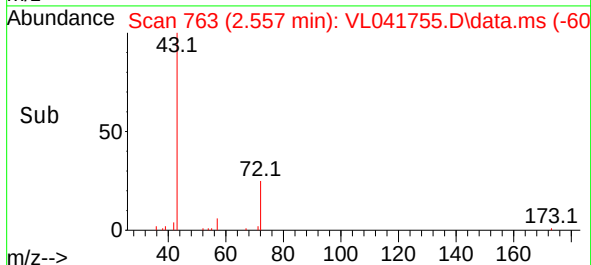
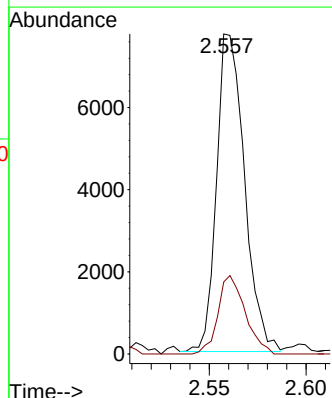
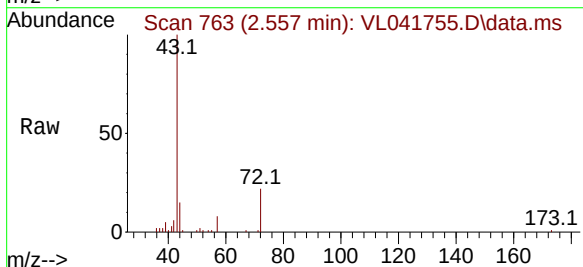
Acq: 16 Dec 2024 15:05

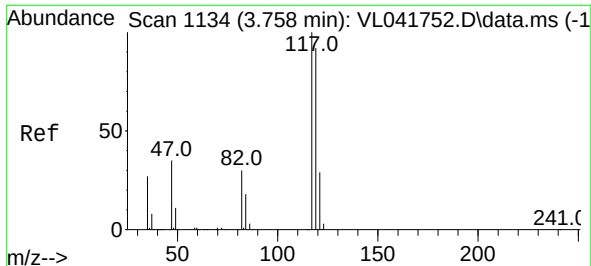
Tgt Ion: 43 Resp: 7756

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# 1136

Delta R.T. 0.006 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

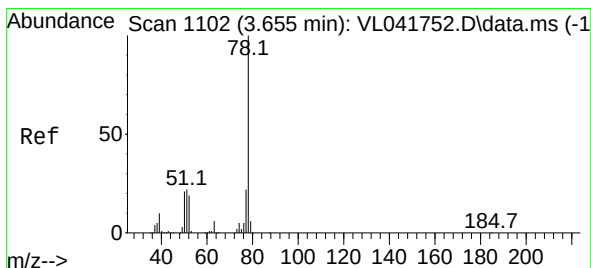
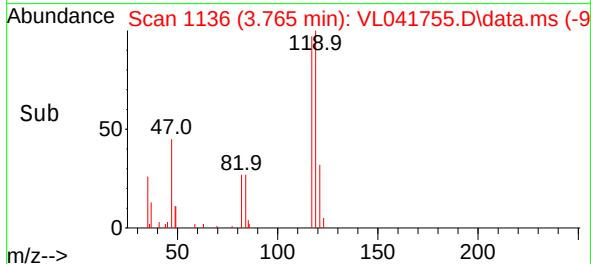
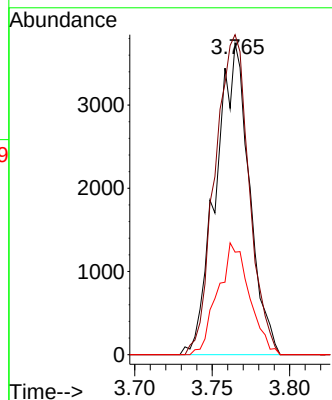
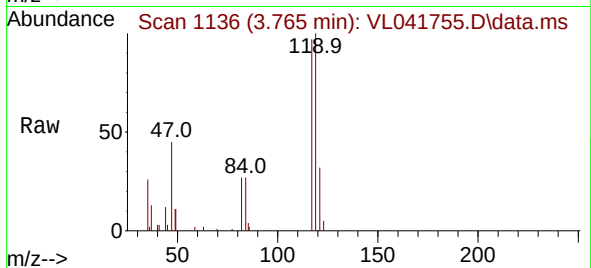
Tgt Ion:117 Resp: 5655

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

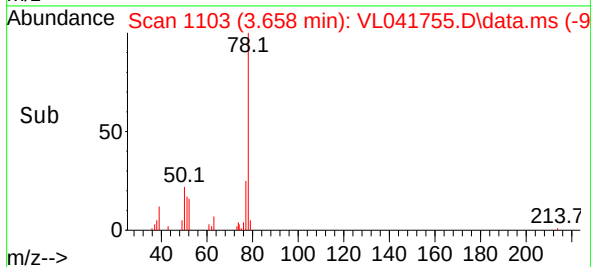
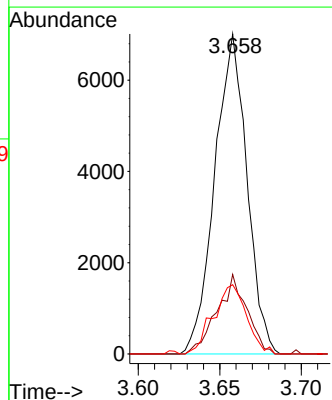
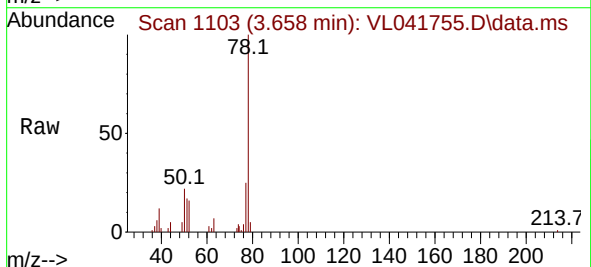
Tgt Ion: 78 Resp: 9629

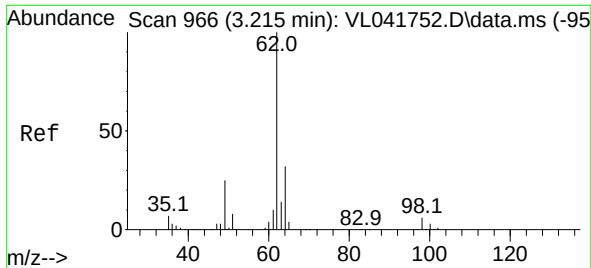
Ion Ratio Lower Upper

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 :

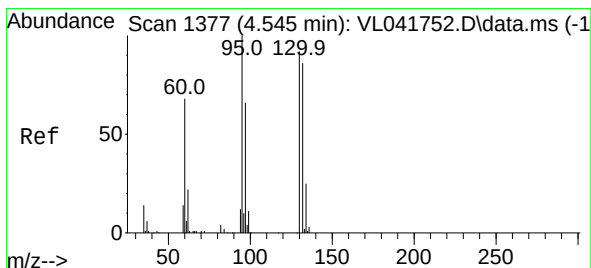
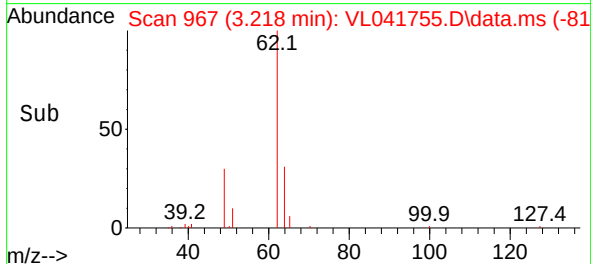
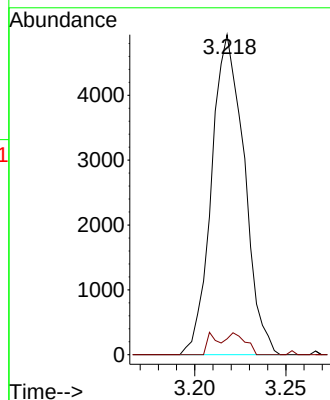
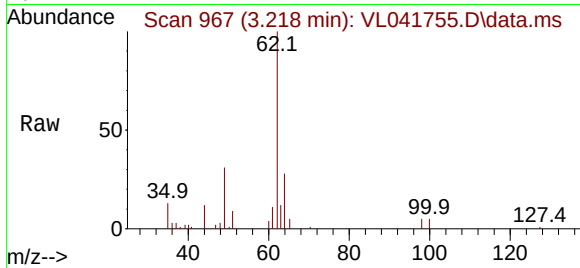
VSTDIC0.5

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

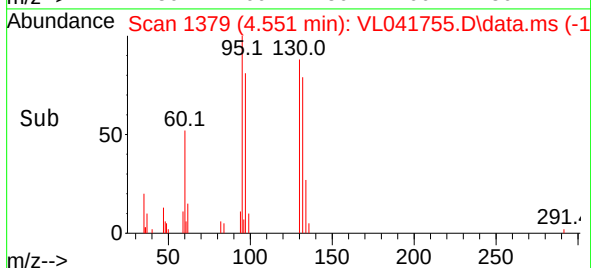
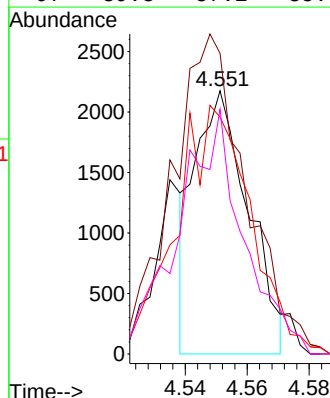
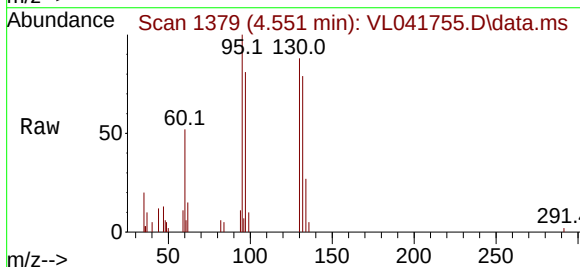
Ion Ratio Lower Upper

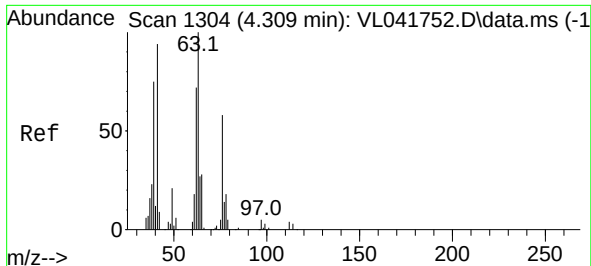
130 100

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

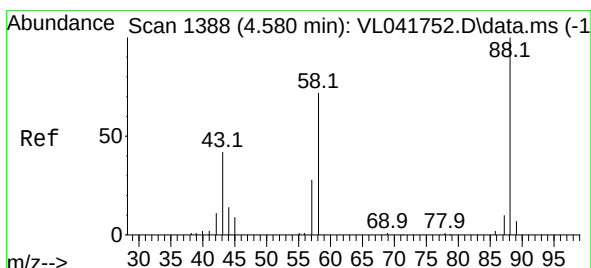
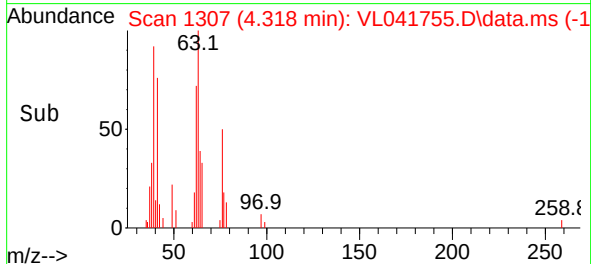
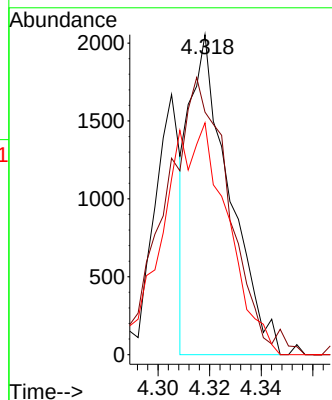
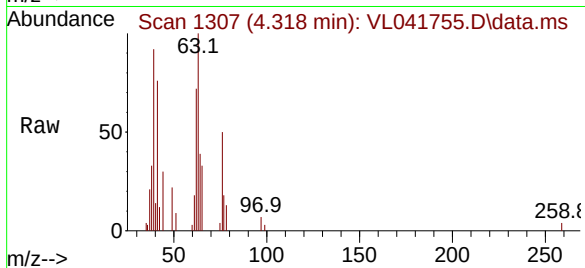
Tgt Ion: 63 Resp: 2224

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

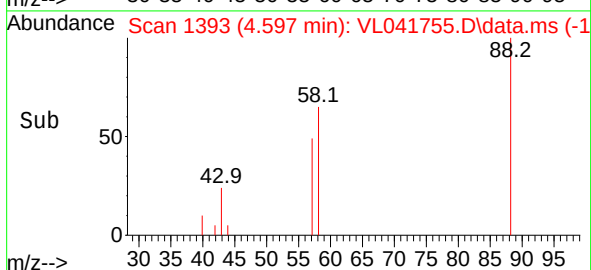
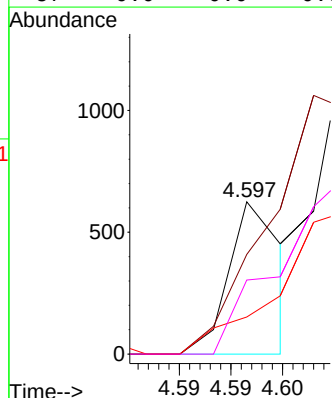
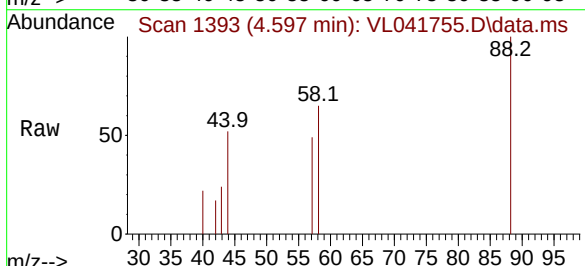
Ion Ratio Lower Upper

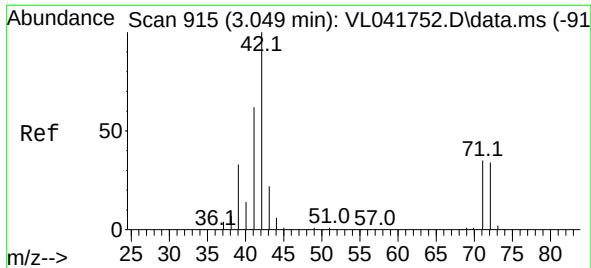
88 100

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# 91

Delta R.T. 0.016 min

Lab File: VL041755.D

Acq: 16 Dec 2024 15:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

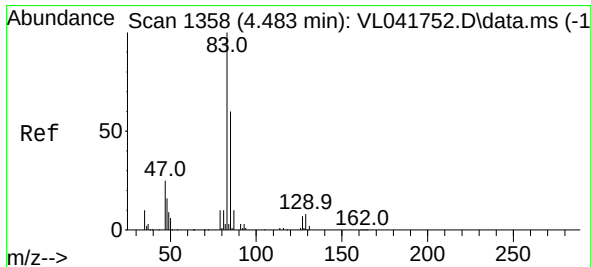
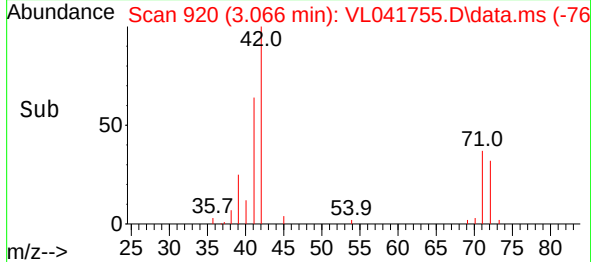
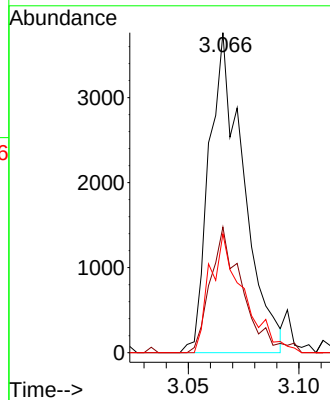
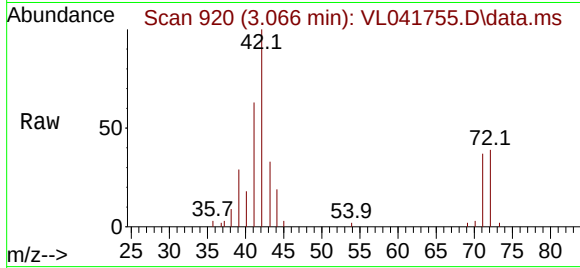
Tgt Ion: 42 Resp: 4061

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

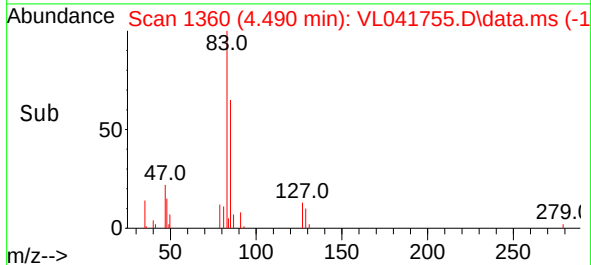
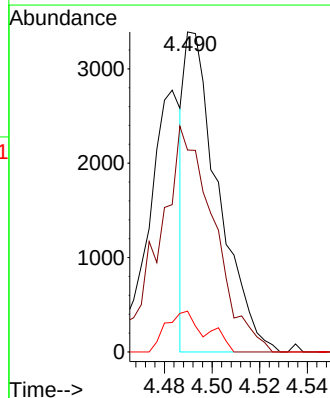
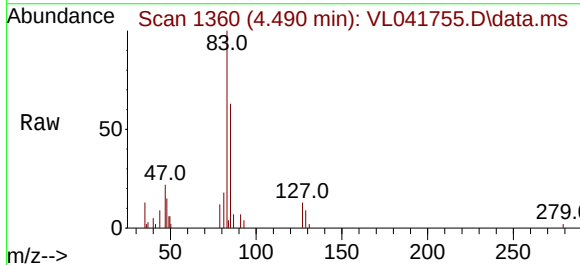
Tgt Ion: 83 Resp: 3315

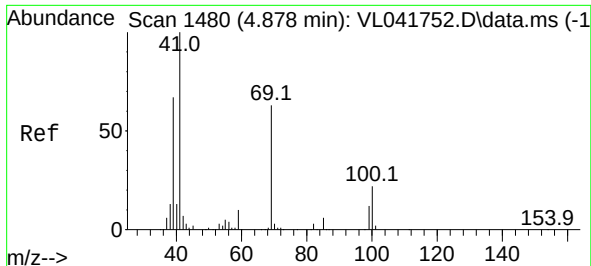
Ion Ratio Lower Upper

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

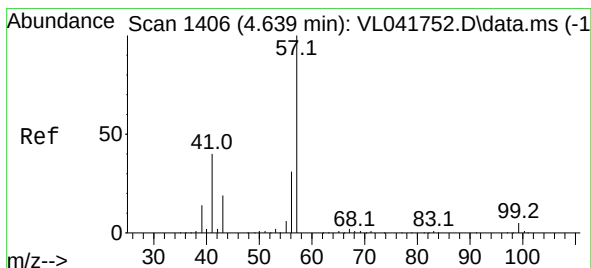
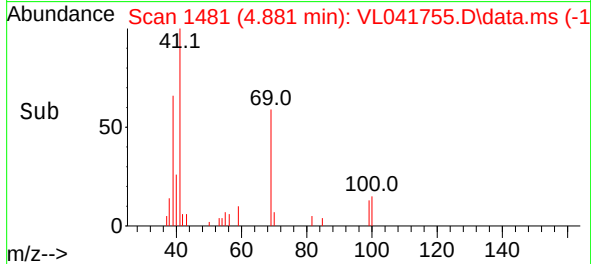
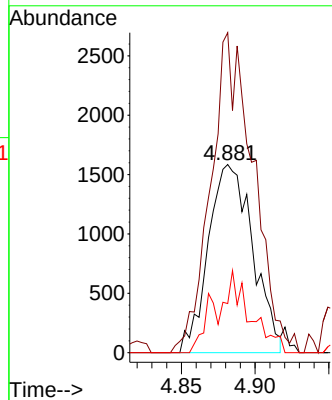
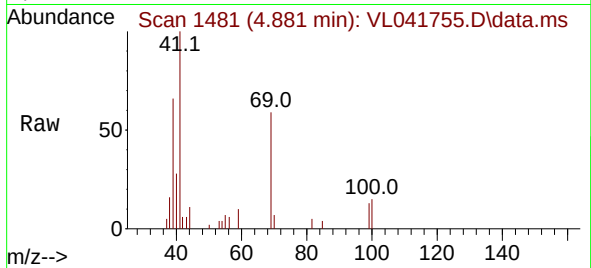
Tgt Ion: 69 Resp: 3322

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

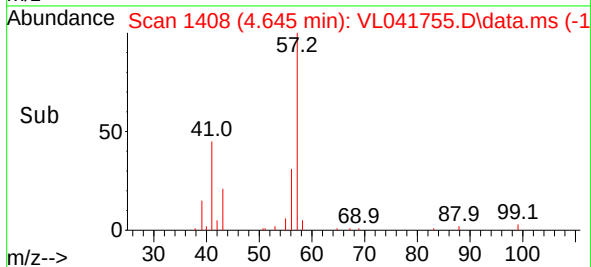
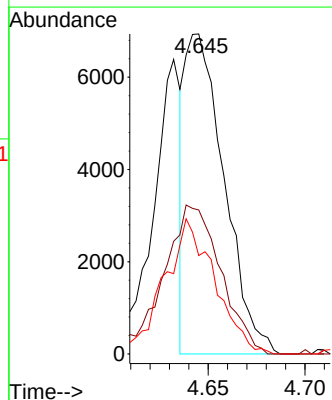
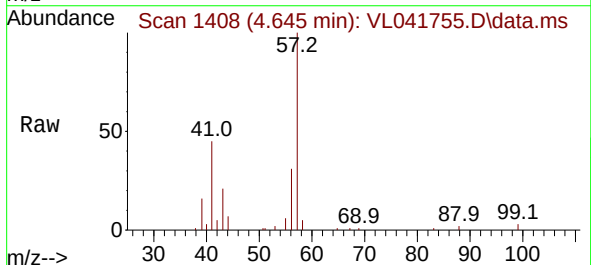
Tgt Ion: 57 Resp: 9729

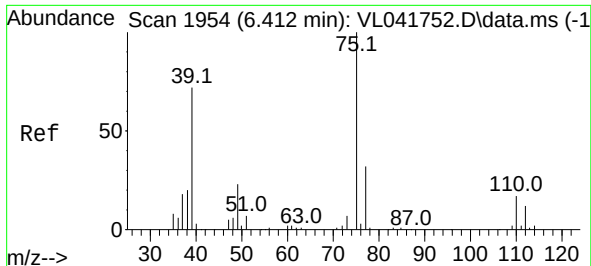
Ion Ratio Lower Upper

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 :

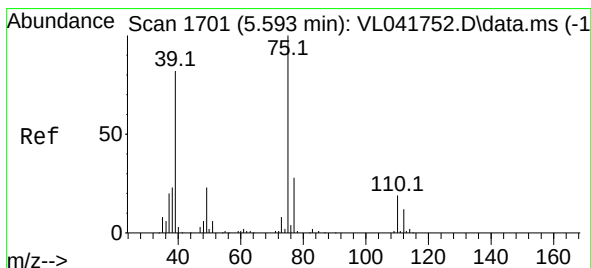
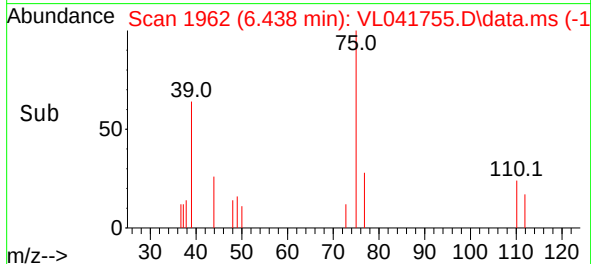
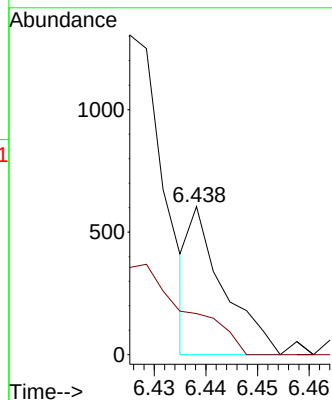
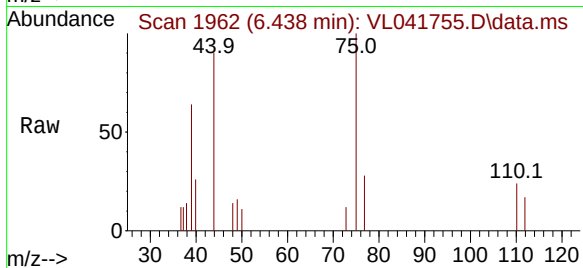
VSTDIC0.5

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

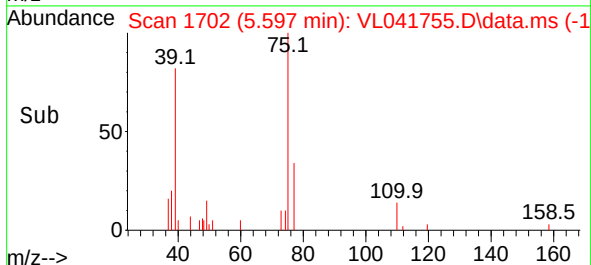
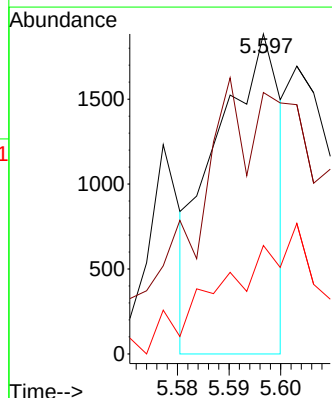
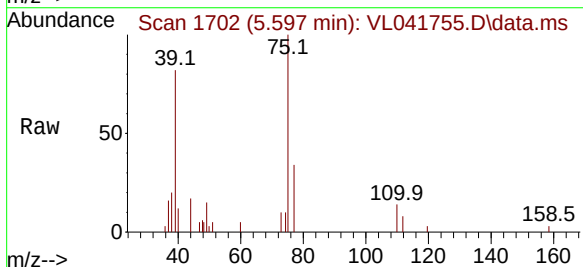
Tgt Ion: 75 Resp: 1656

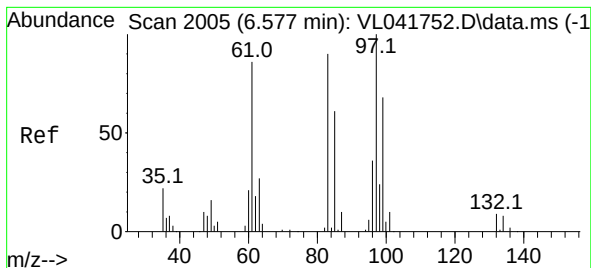
Ion Ratio Lower Upper

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_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 2388

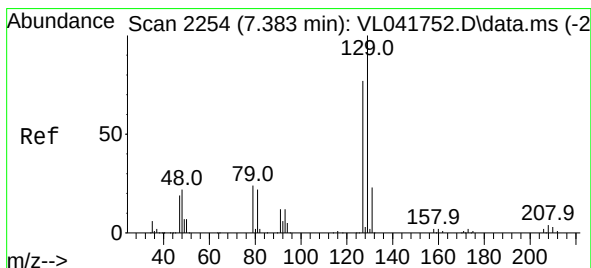
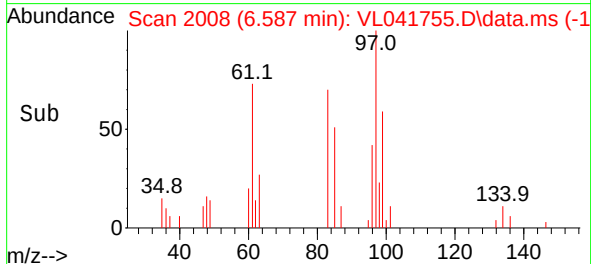
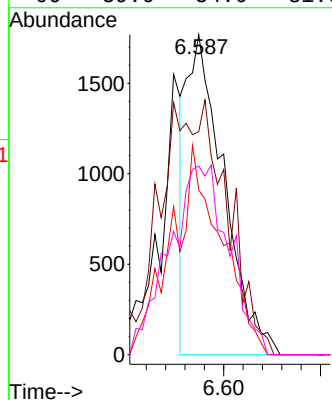
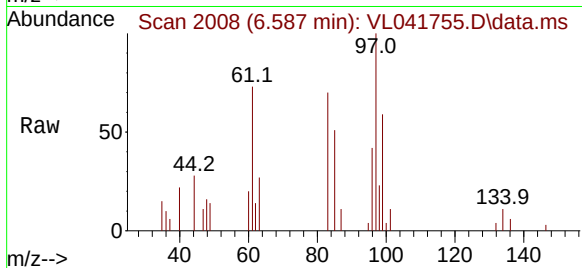
Ion Ratio Lower Upper

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

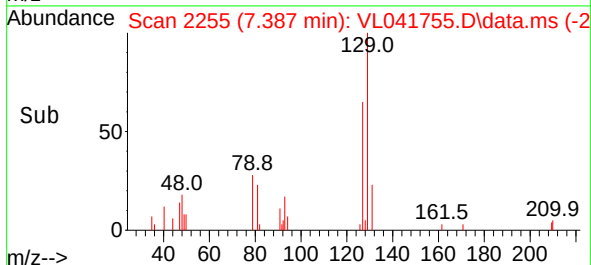
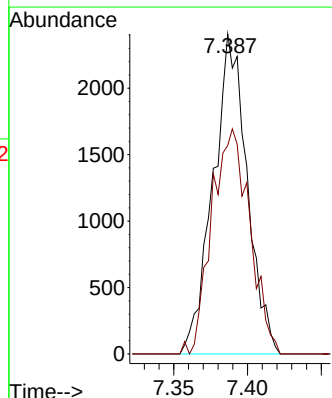
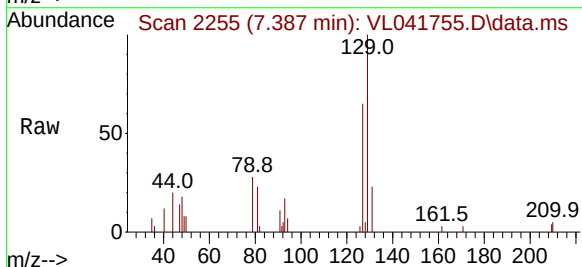
Acq: 16 Dec 2024 15:05

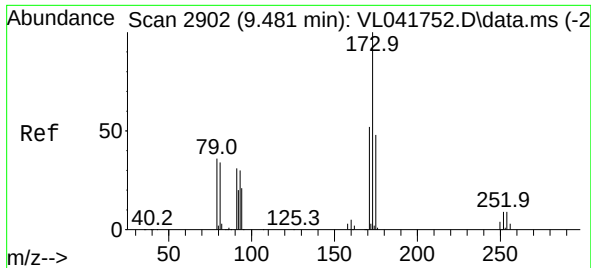
Tgt Ion: 129 Resp: 3865

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

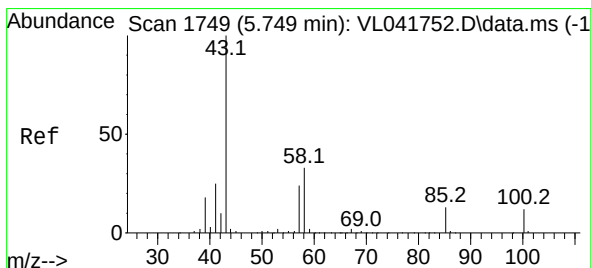
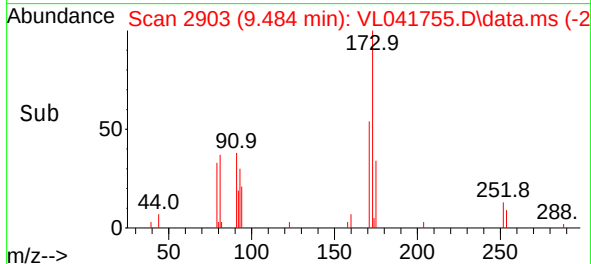
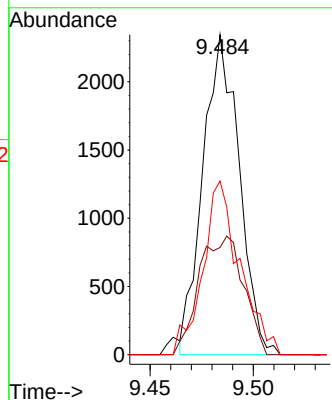
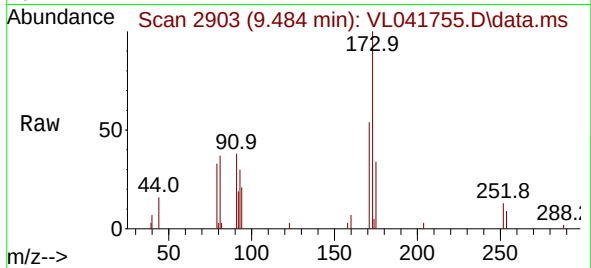
Tgt Ion:173 Resp: 2869

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

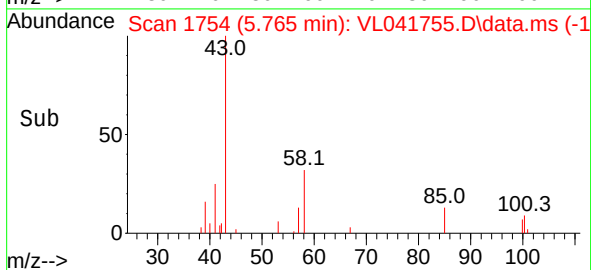
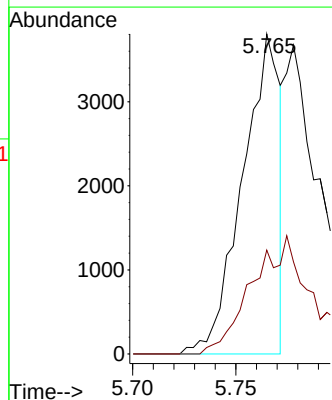
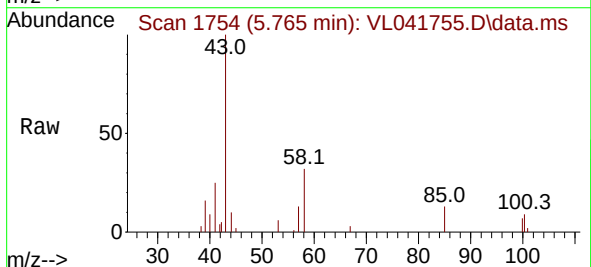
Acq: 16 Dec 2024 15:05

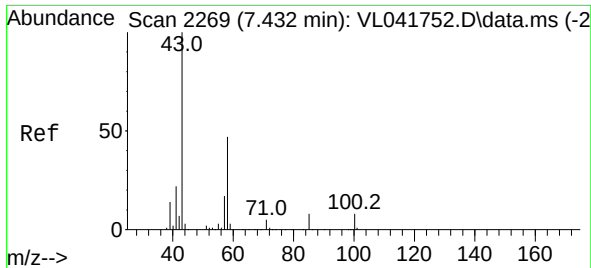
Tgt Ion: 43 Resp: 4771

Ion Ratio Lower Upper

43 100

58 0.0 26.8 40.2#

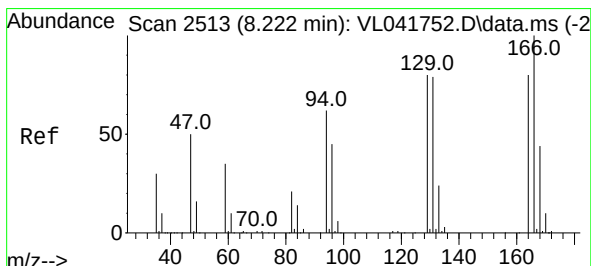
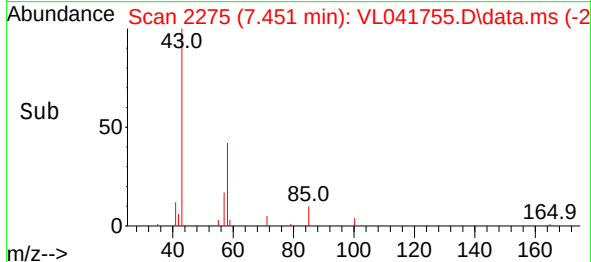
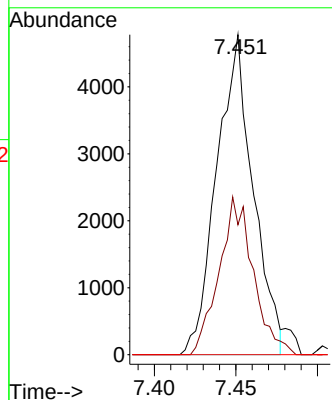
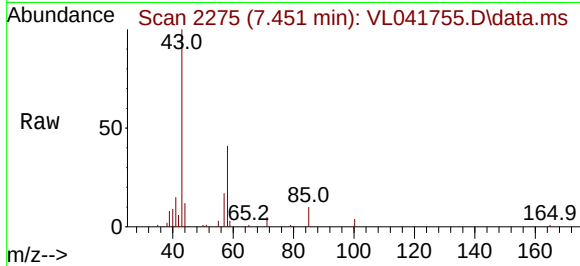




#51
2-Hexanone
Concen: 0.468 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

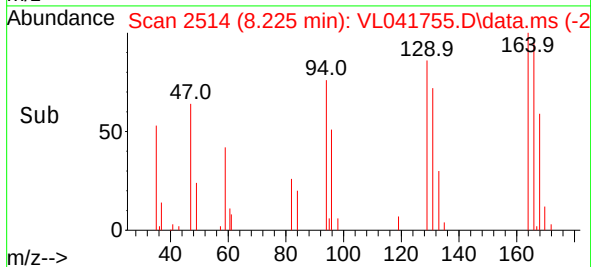
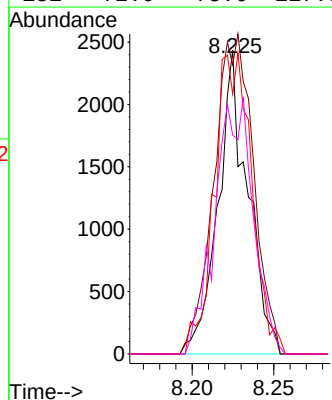
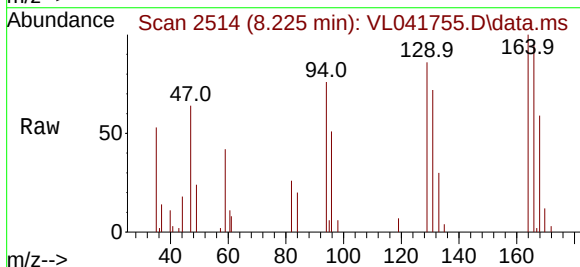
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

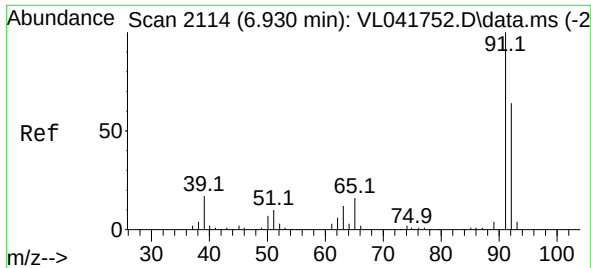
Tgt Ion: 43 Resp: 7412
Ion Ratio Lower Upper
43 100
58 46.2 36.6 55.0
98 0.0 0.1 0.1#



#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 :

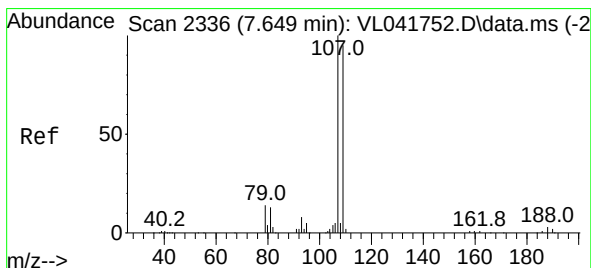
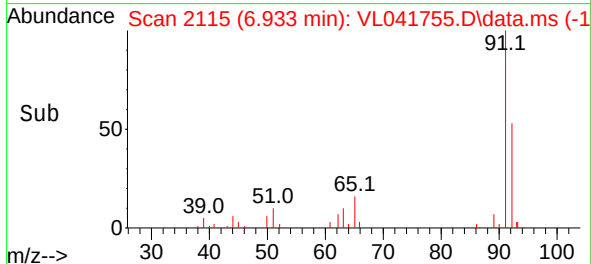
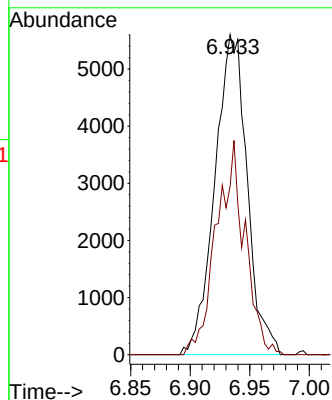
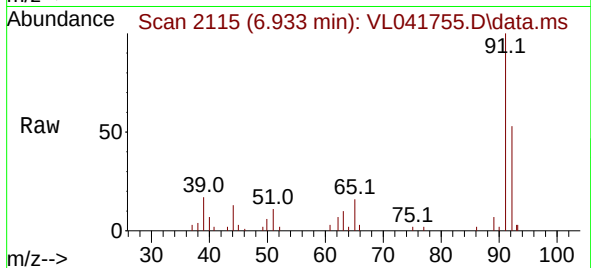
VSTDICC0.5

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

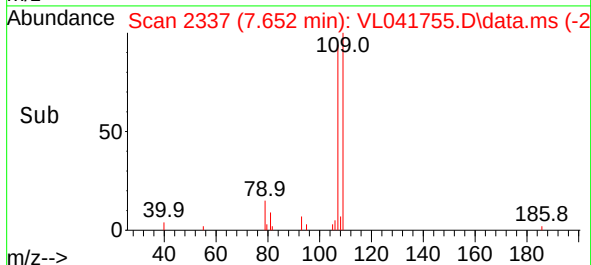
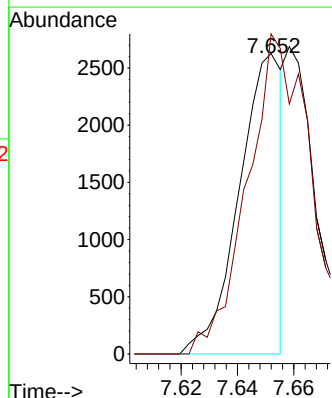
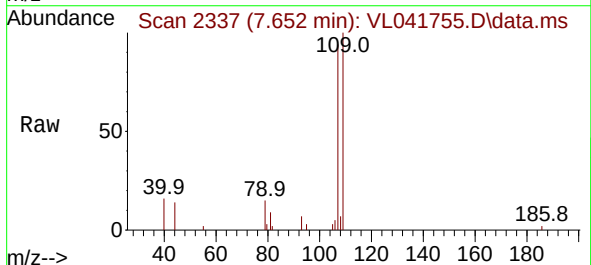
Acq: 16 Dec 2024 15:05

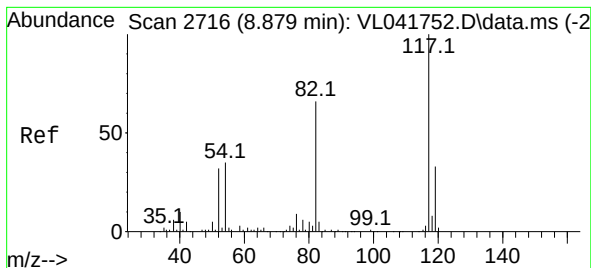
Tgt Ion: 107 Resp: 2762

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

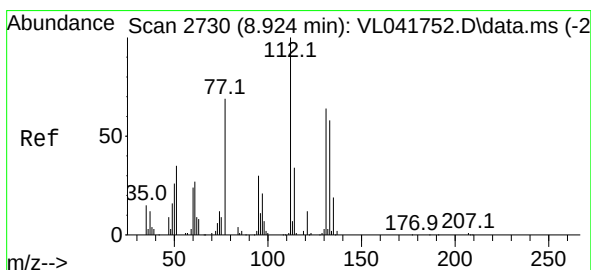
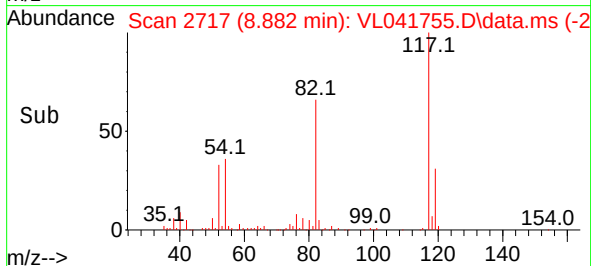
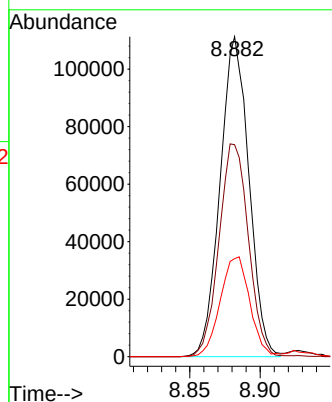
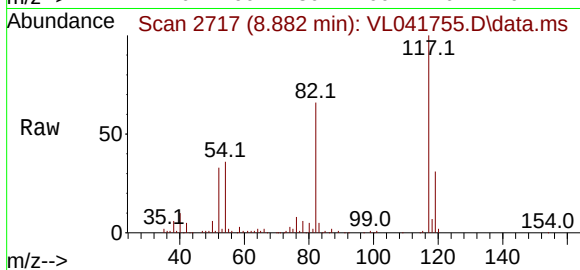
Tgt Ion:117 Resp: 158571

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

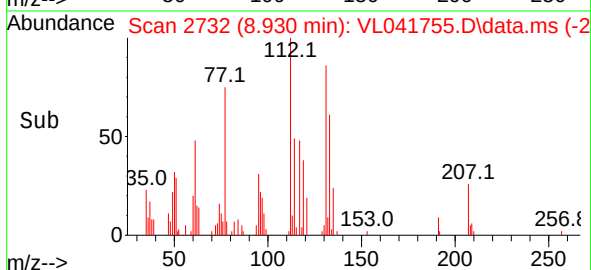
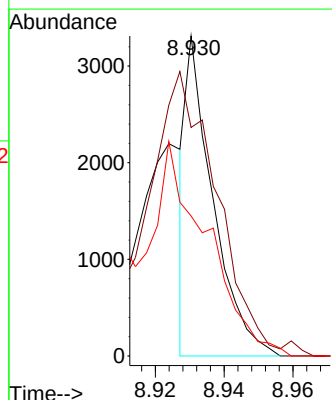
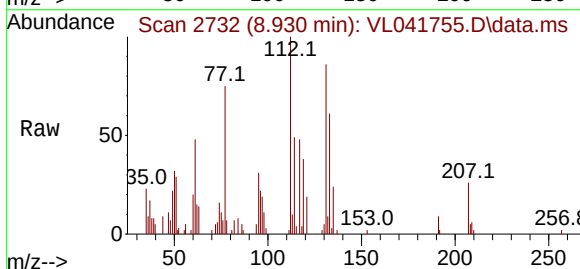
Tgt Ion:131 Resp: 1785

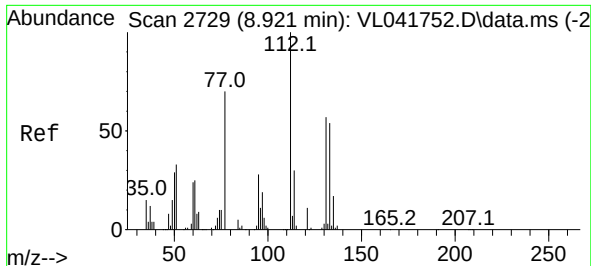
Ion Ratio Lower Upper

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_1

ClientSampleId :

VSTDIC0.5

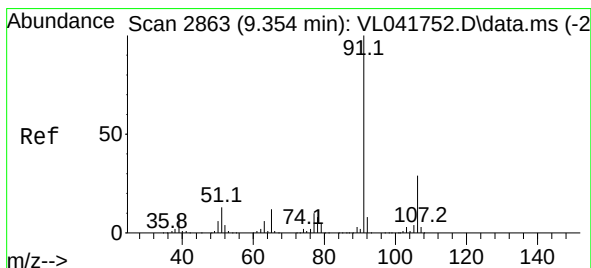
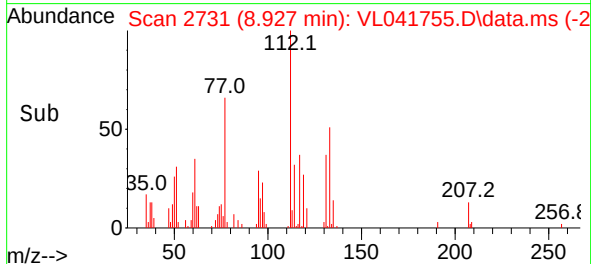
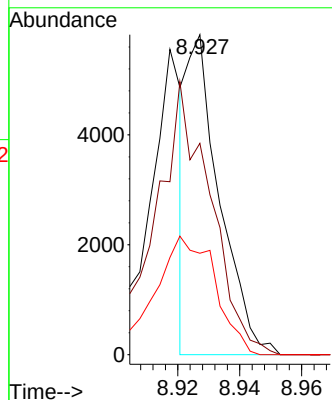
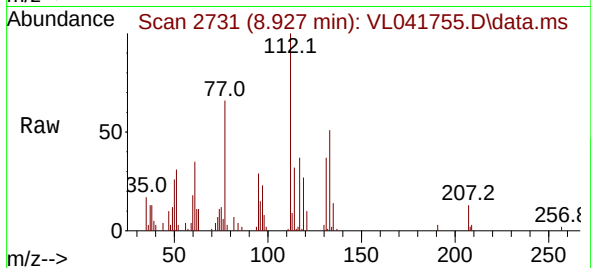
Tgt Ion:112 Resp: 4266

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

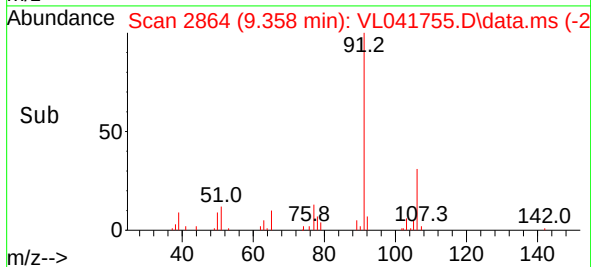
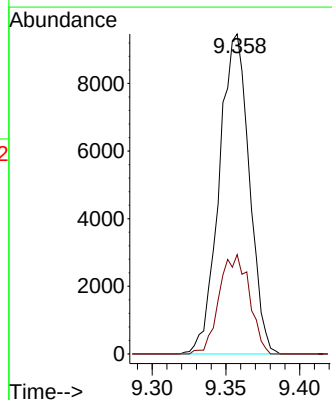
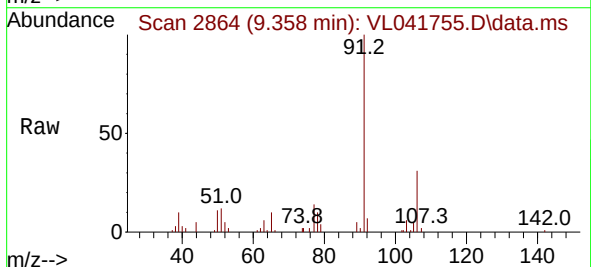
Acq: 16 Dec 2024 15:05

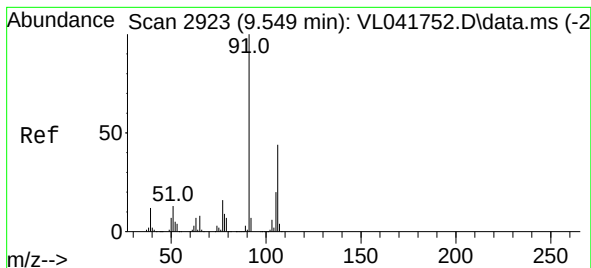
Tgt Ion: 91 Resp: 13428

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_L

ClientSampleId :

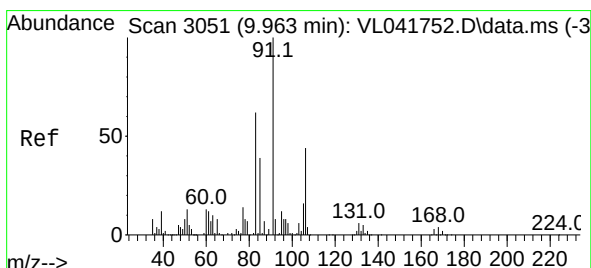
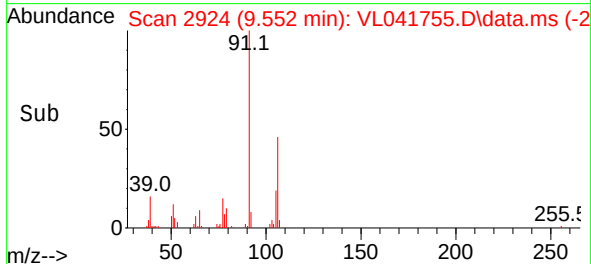
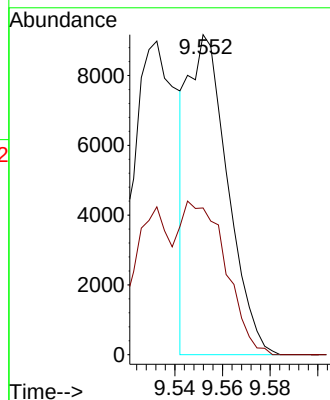
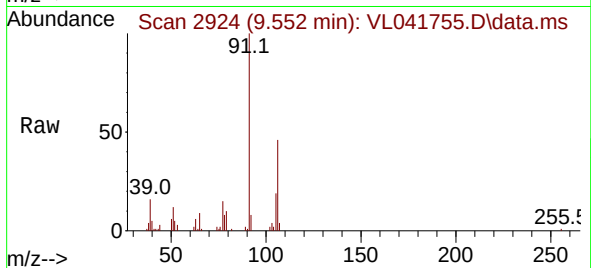
VSTDIC0.5

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

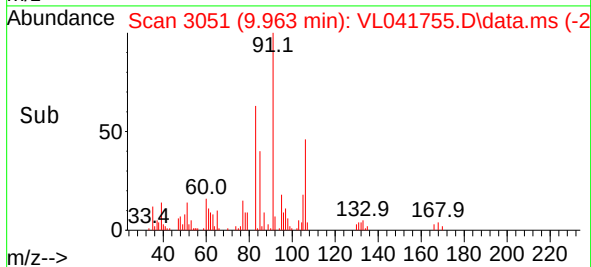
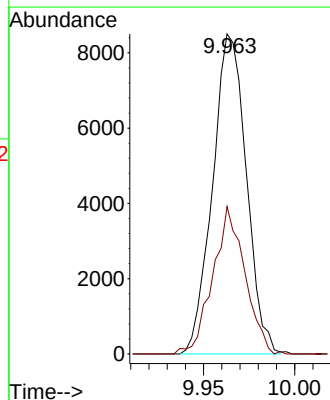
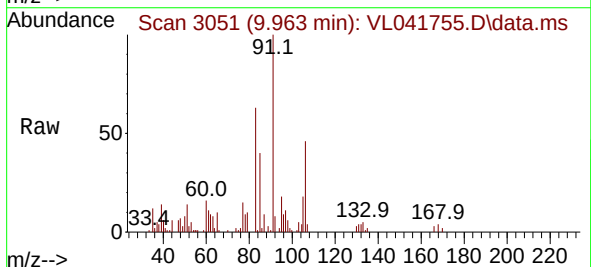
Acq: 16 Dec 2024 15:05

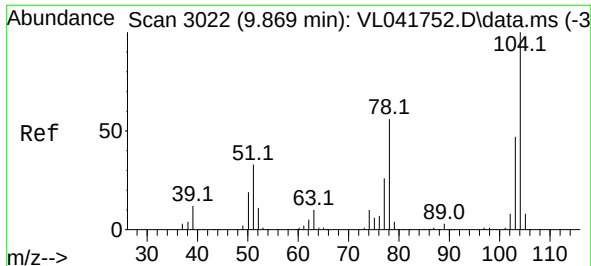
Tgt Ion: 91 Resp: 10954

Ion Ratio Lower Upper

91 100

106 43.7 21.1 63.4

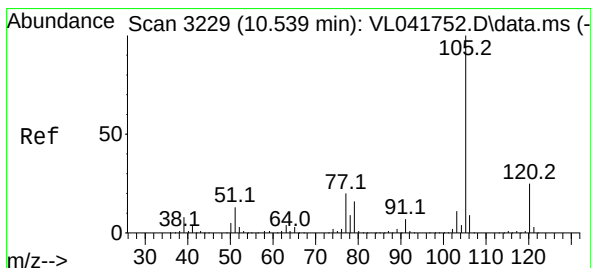
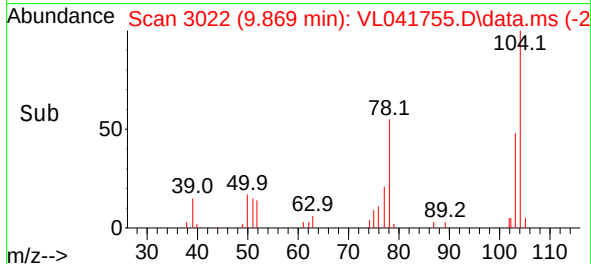
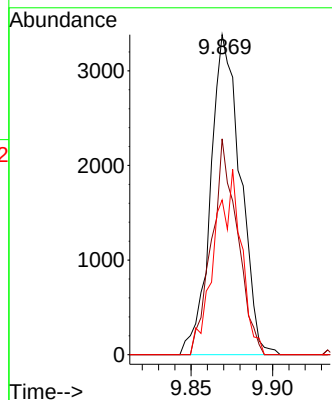
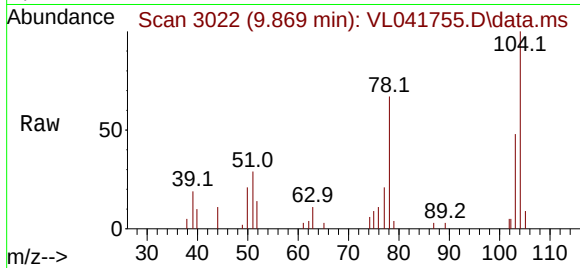




#61
Styrene
Concen: 0.433 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

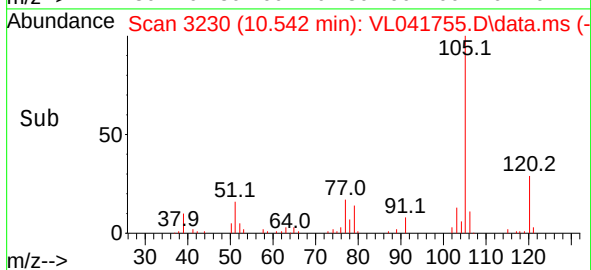
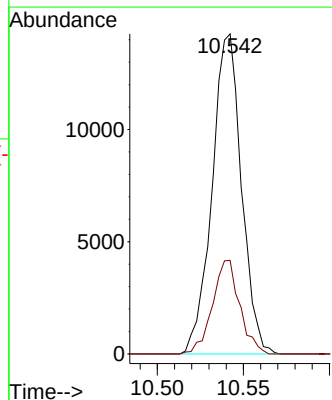
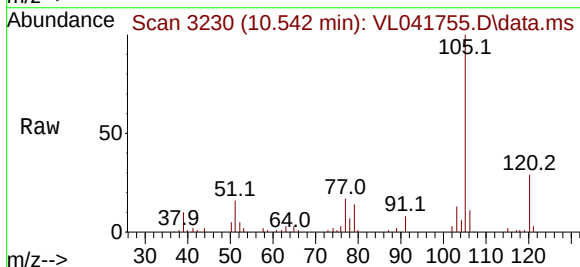
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

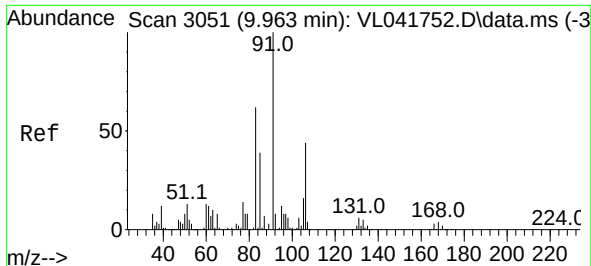
Tgt Ion:104 Resp: 4314
Ion Ratio Lower Upper
104 100
78 58.1 43.8 65.6
103 51.9 37.8 56.6



#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

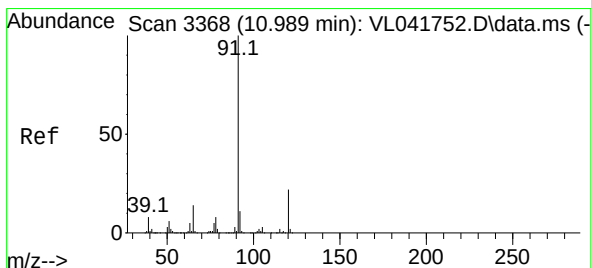
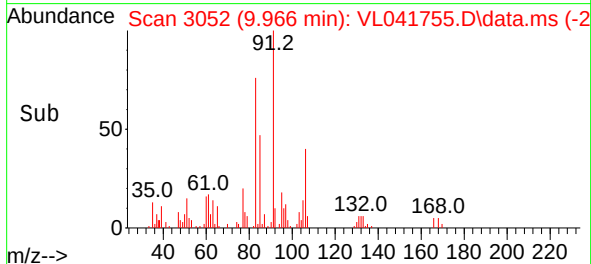
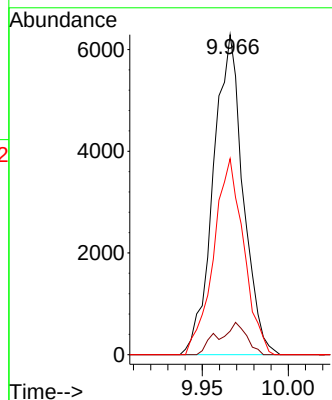
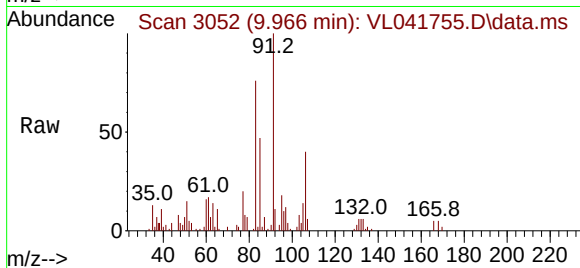
Tgt Ion: 83 Resp: 7559

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

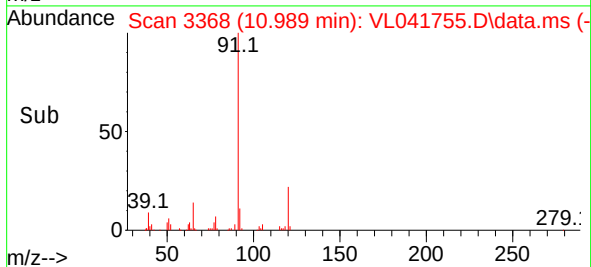
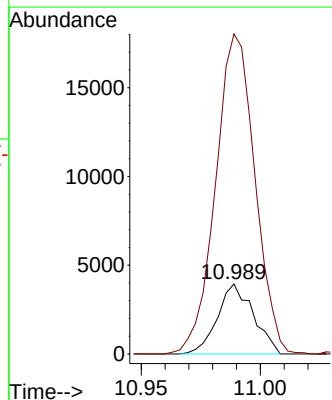
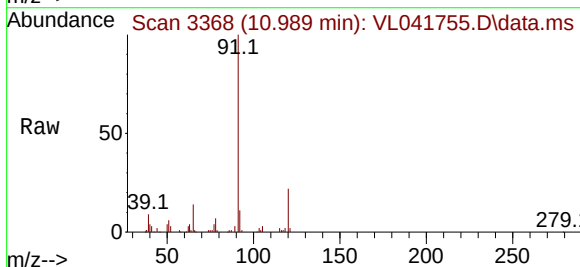
Acq: 16 Dec 2024 15:05

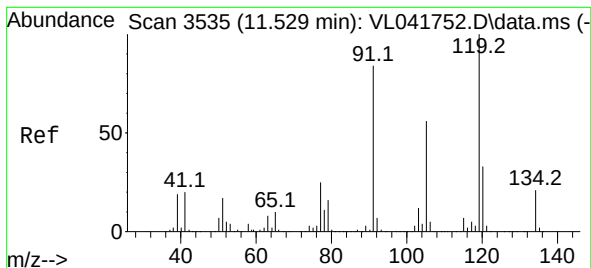
Tgt Ion:120 Resp: 4126

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

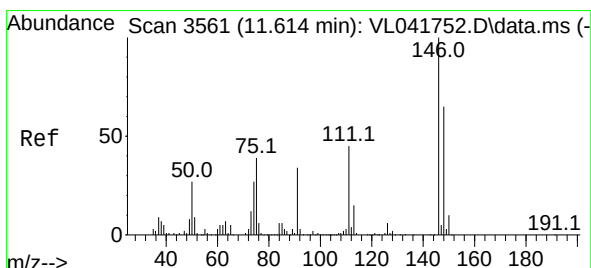
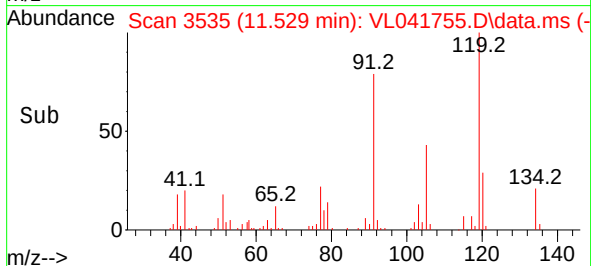
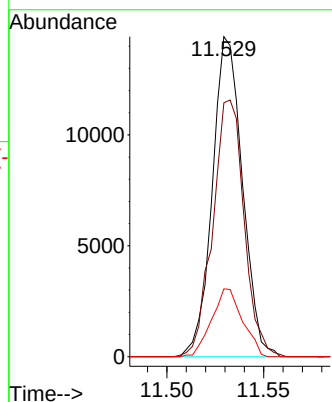
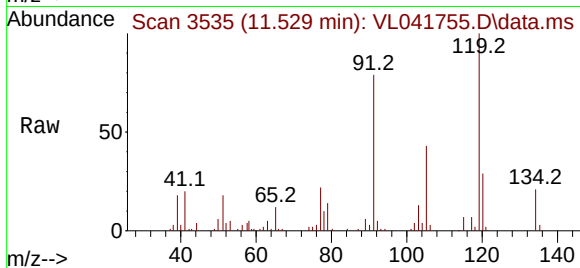
Tgt Ion:119 Resp: 15569

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

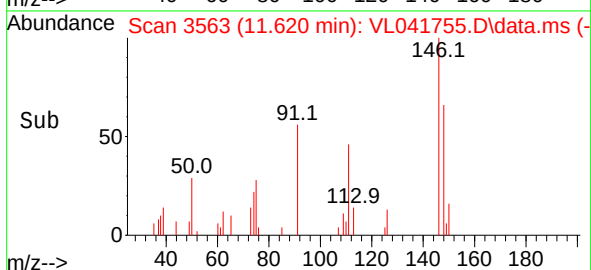
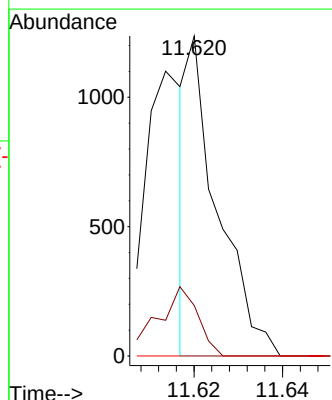
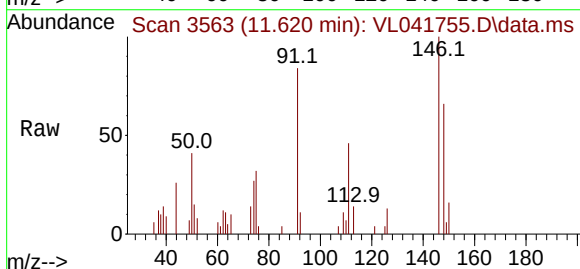
Tgt Ion: 91 Resp: 580

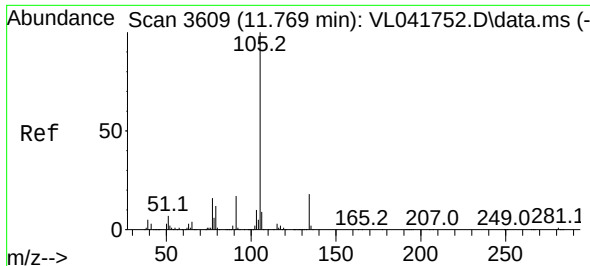
Ion Ratio Lower Upper

91 100

126 29.1 13.9 20.9#

128 0.0 4.4 6.6#

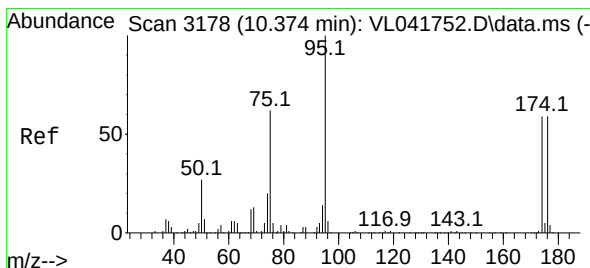
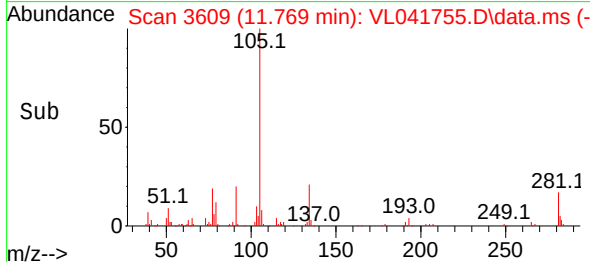
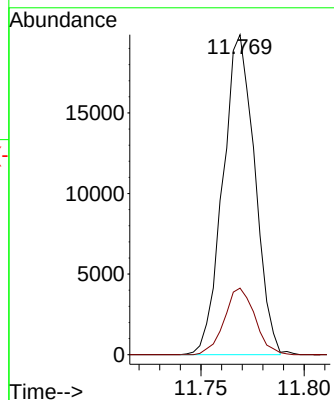
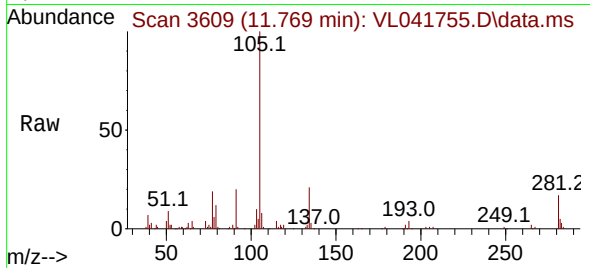




#67
 sec-Butylbenzene
 Concen: 0.492 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

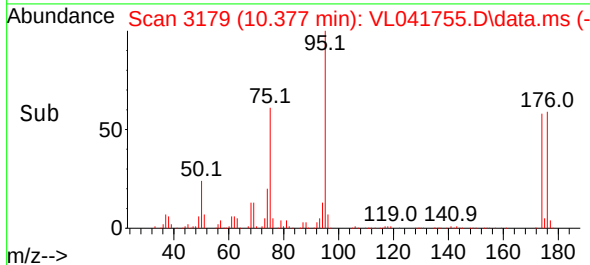
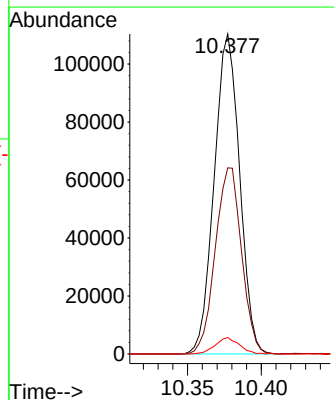
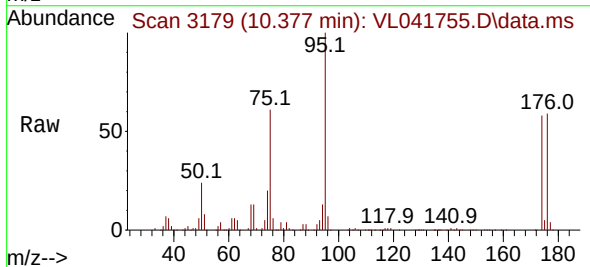
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

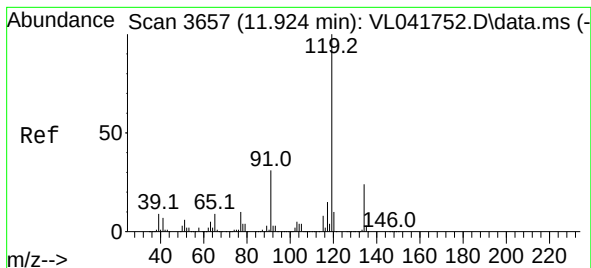
Tgt Ion:105 Resp: 21263
 Ion Ratio Lower Upper
 105 100
 134 20.1 14.5 21.7



#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_L

ClientSampleId :

VSTDIC0.5

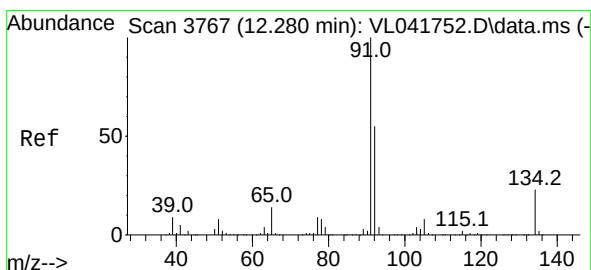
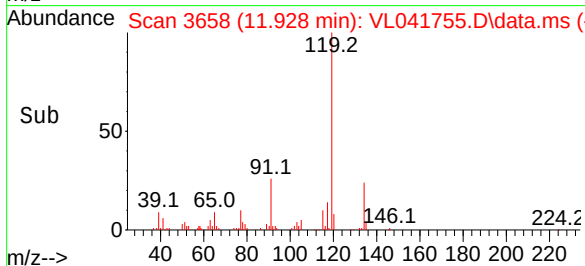
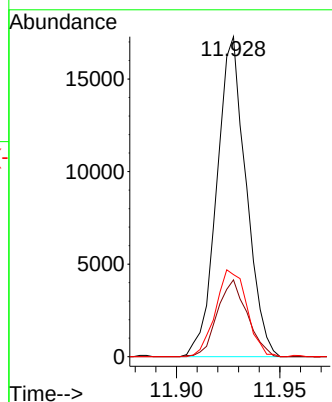
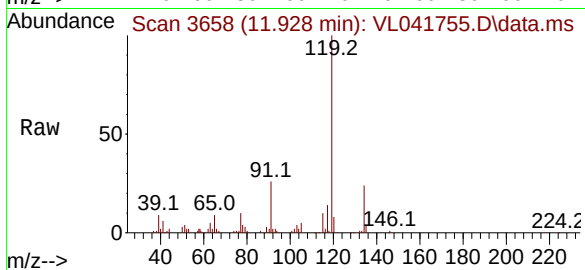
Tgt Ion:119 Resp: 17041

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

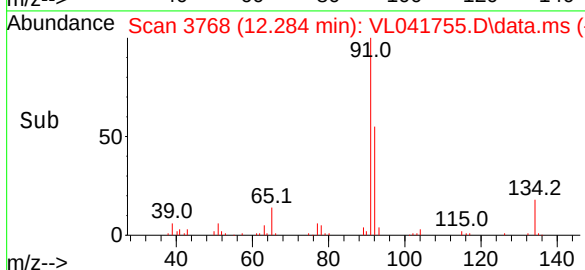
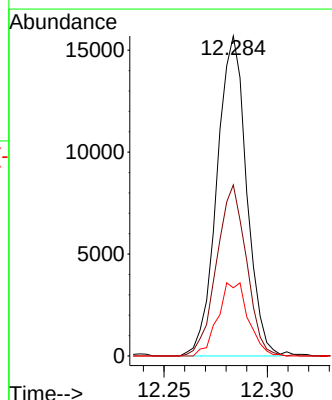
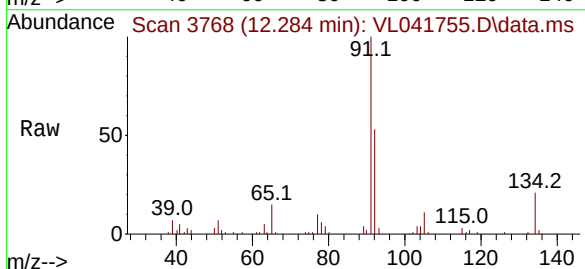
Tgt Ion: 91 Resp: 15671

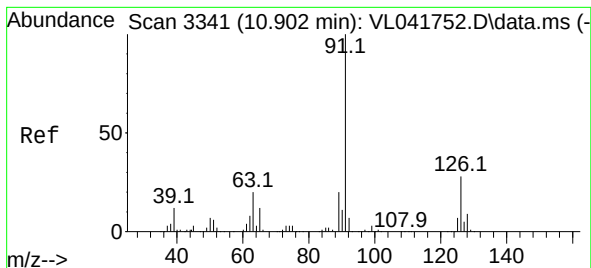
Ion Ratio Lower Upper

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 :

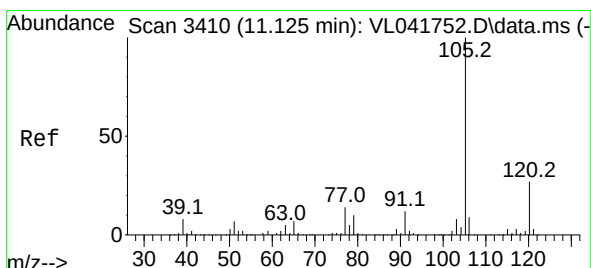
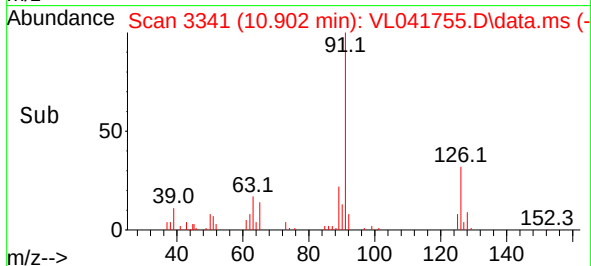
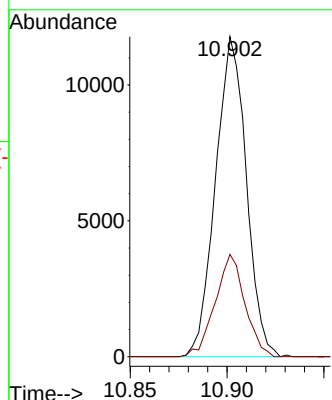
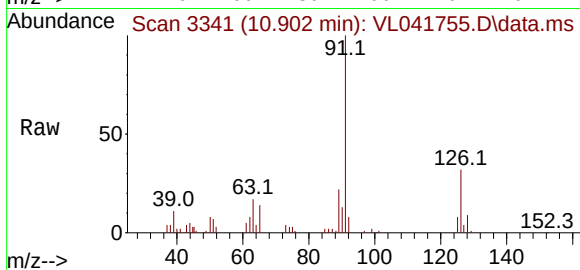
VSTDICC0.5

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

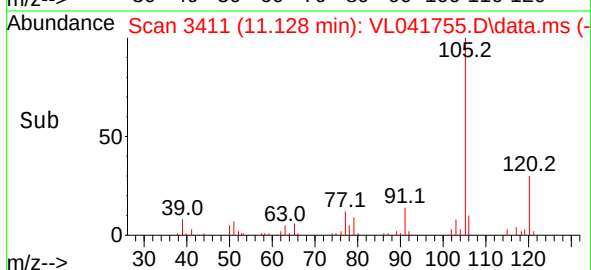
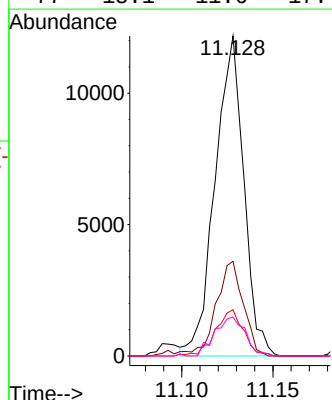
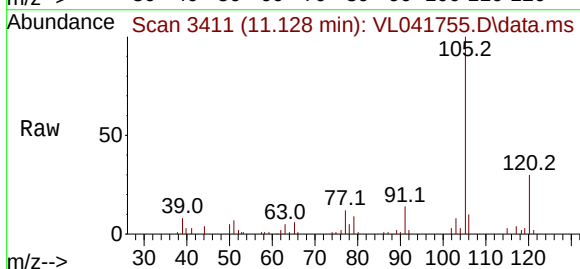
Ion Ratio Lower Upper

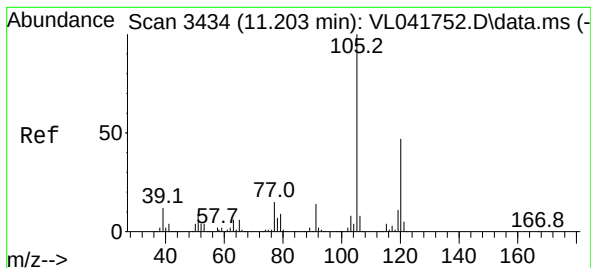
105 100

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 :

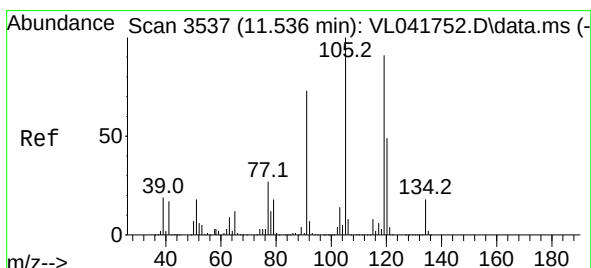
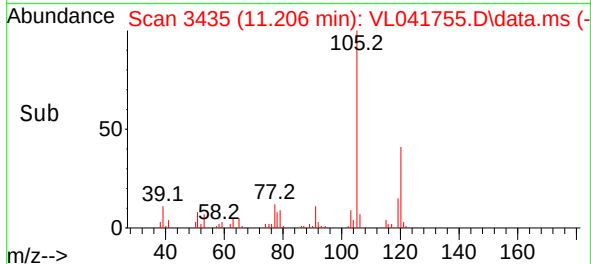
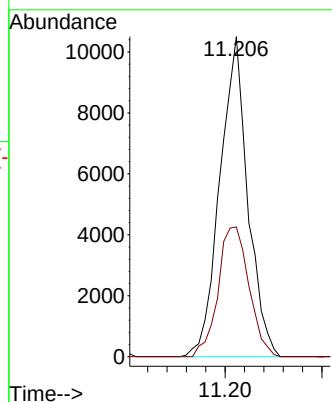
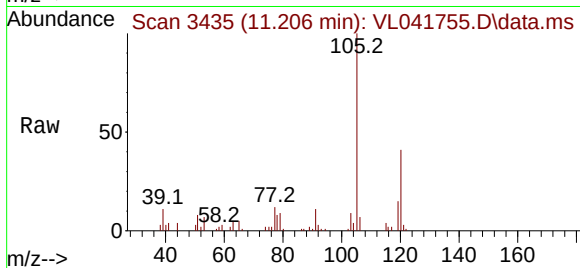
VSTDIC0.5

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

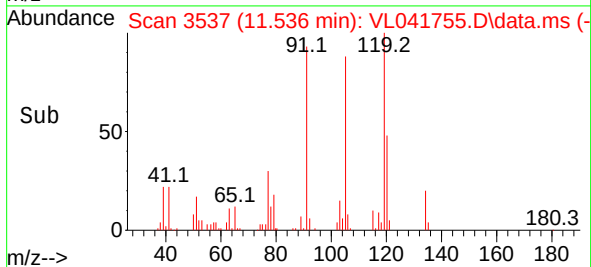
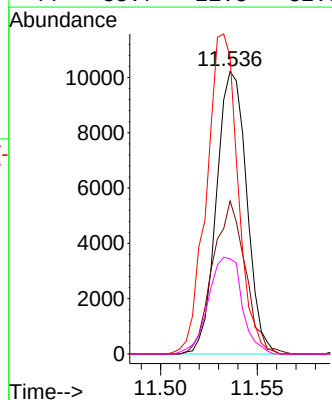
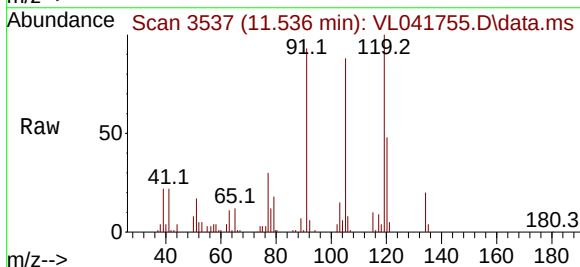
Ion Ratio Lower Upper

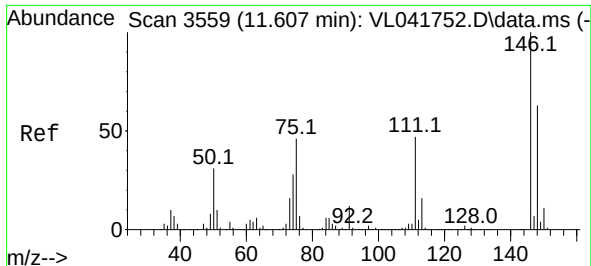
105 100

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

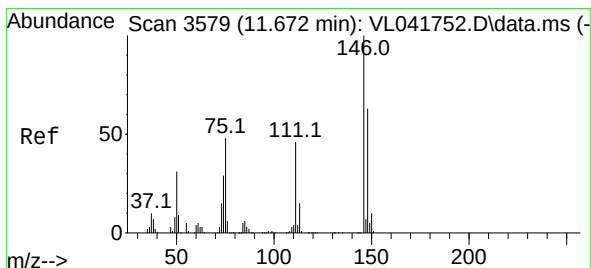
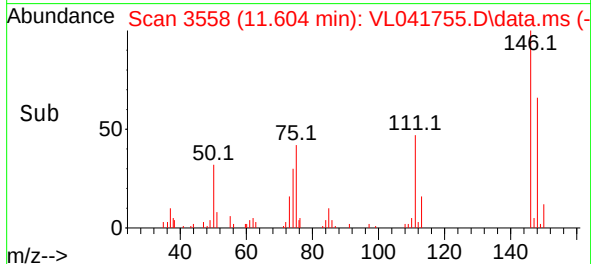
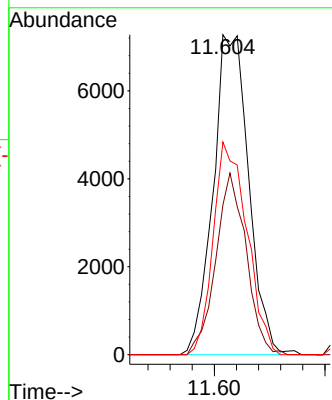
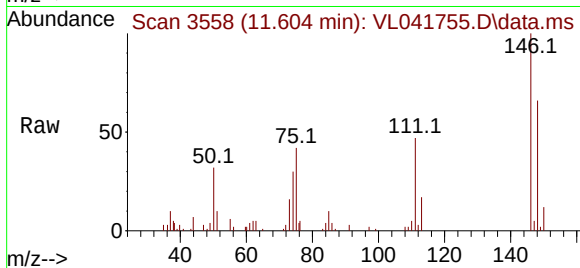
Tgt Ion:146 Resp: 8107

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

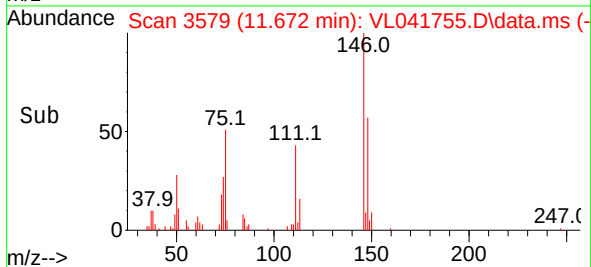
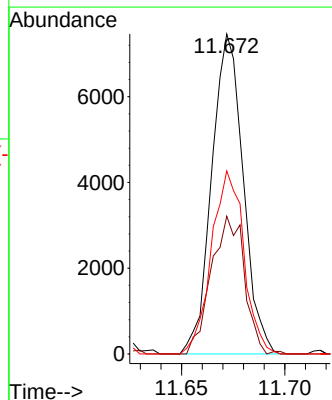
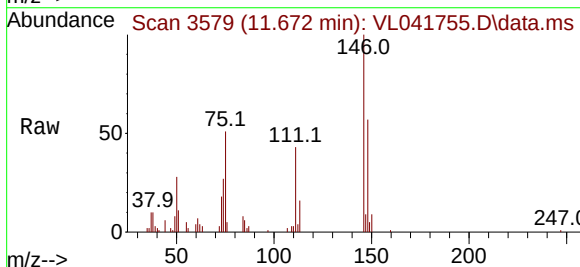
Tgt Ion:146 Resp: 7893

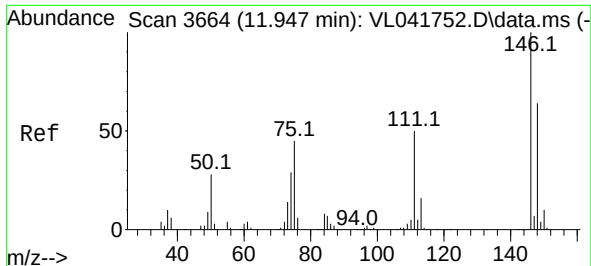
Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

148 58.9 31.4 94.0

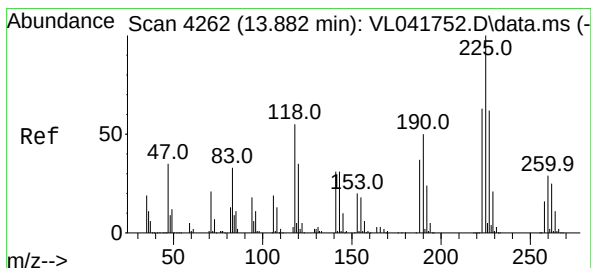
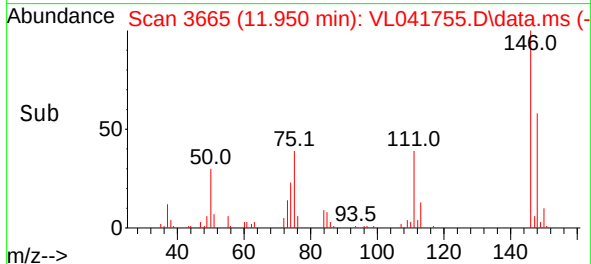
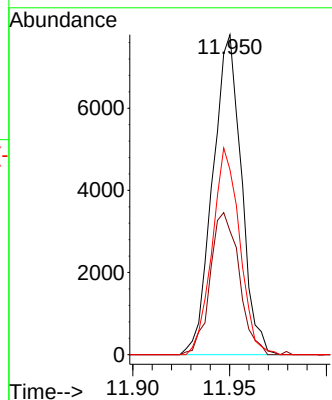
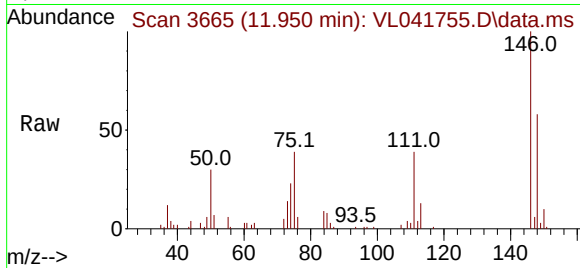




#77
1,2-Dichlorobenzene
Concen: 0.538 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041755.D
Acq: 16 Dec 2024 15:05

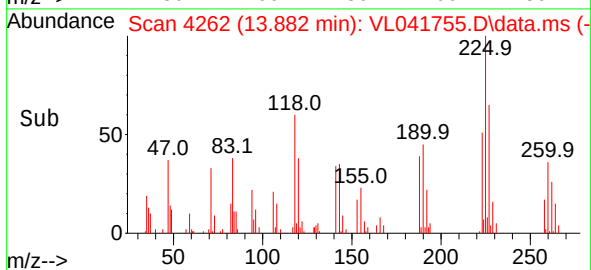
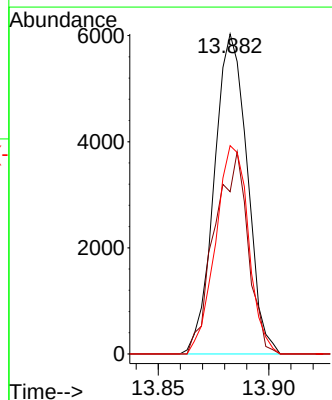
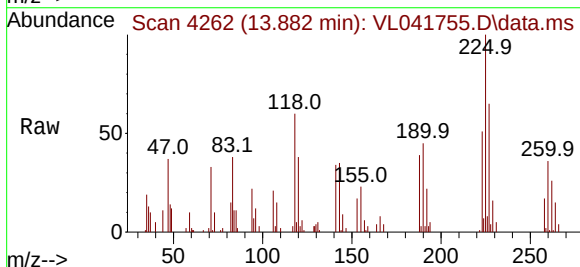
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

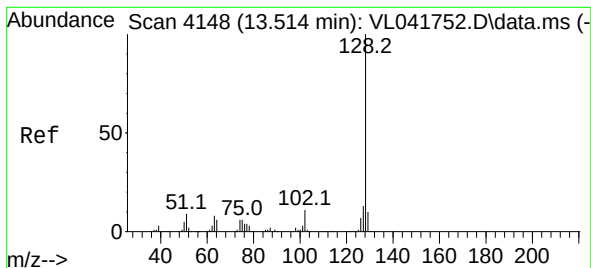
Tgt Ion:146 Resp: 7997
Ion Ratio Lower Upper
146 100
111 45.2 24.8 74.3
148 62.0 31.8 95.4



#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 :

VSTDICC0.5

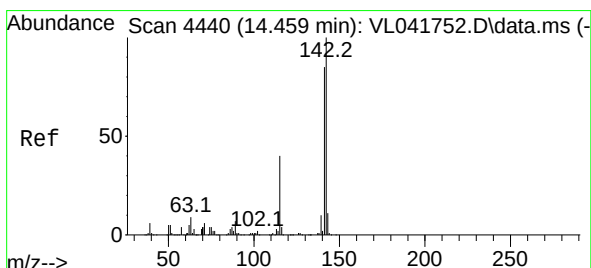
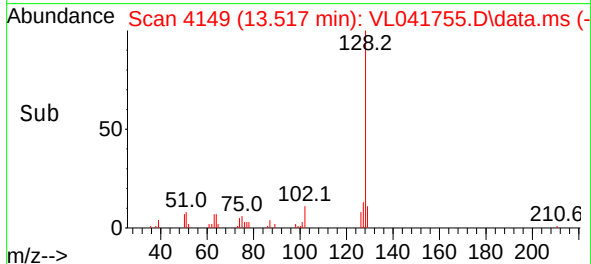
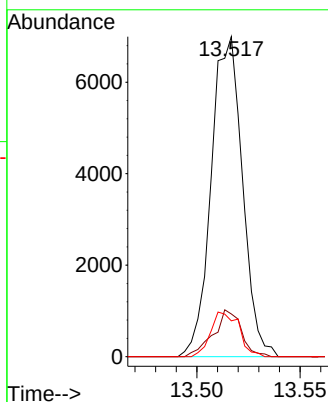
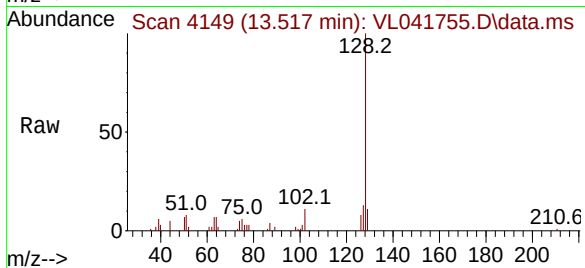
Tgt Ion:128 Resp: 7360

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

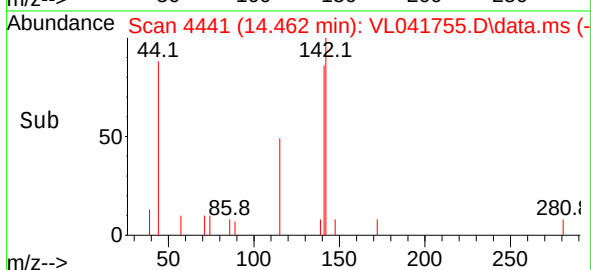
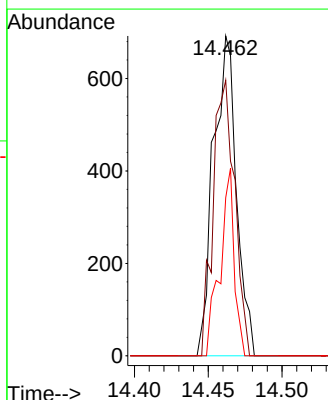
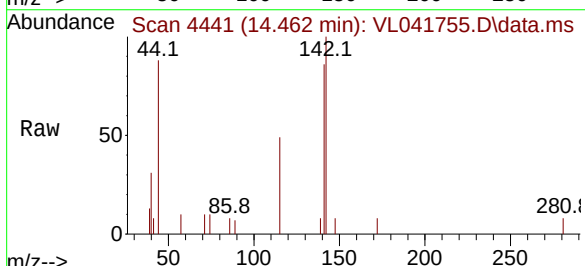
Tgt Ion:142 Resp: 748

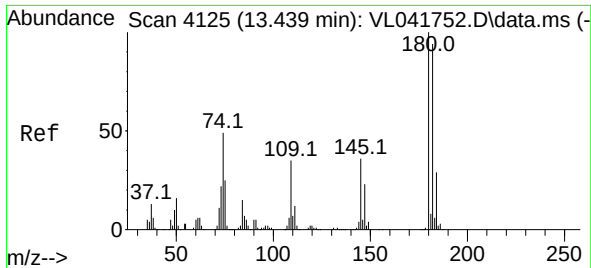
Ion Ratio Lower Upper

142 100

141 80.9 68.4 102.6

115 36.4 32.5 48.7

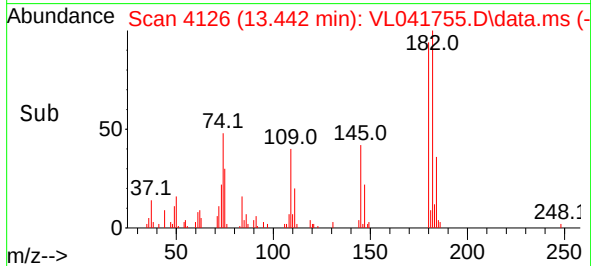
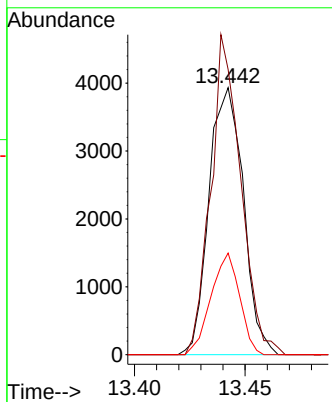
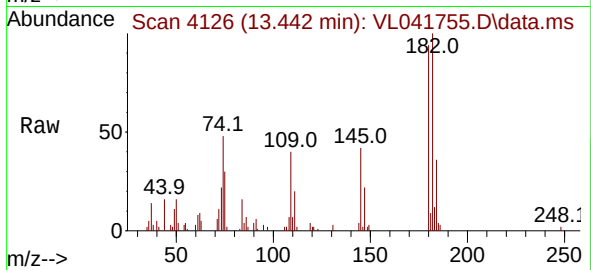




#81
 1,2,4-Trichlorobenzene
 Concen: 0.460 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041755.D
 Acq: 16 Dec 2024 15:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	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

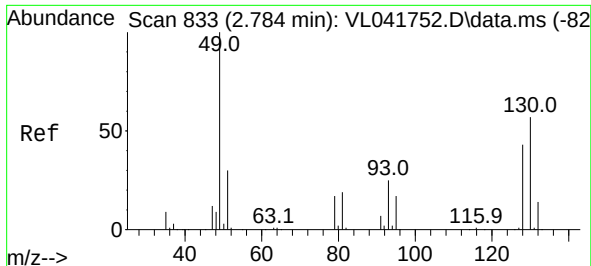
Quant Time: Dec 19 06:15:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

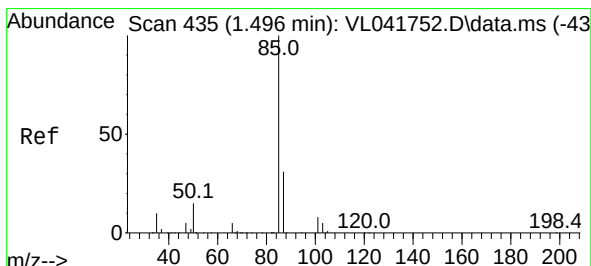
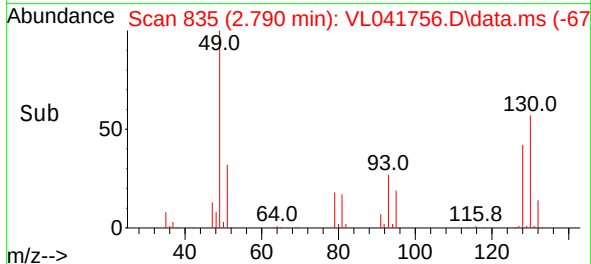
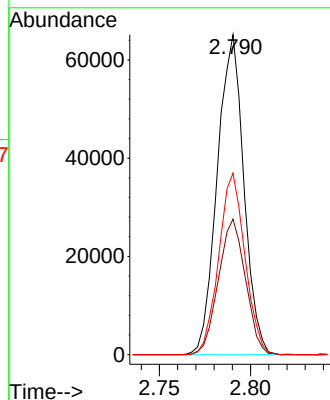
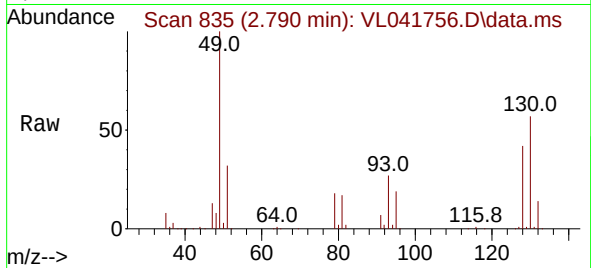




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

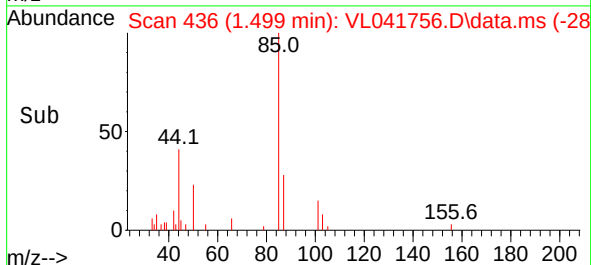
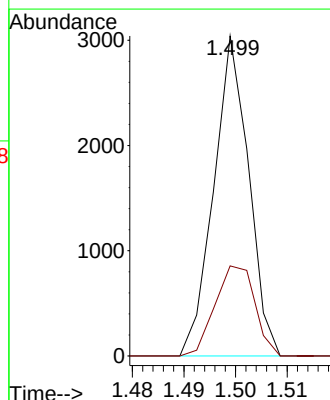
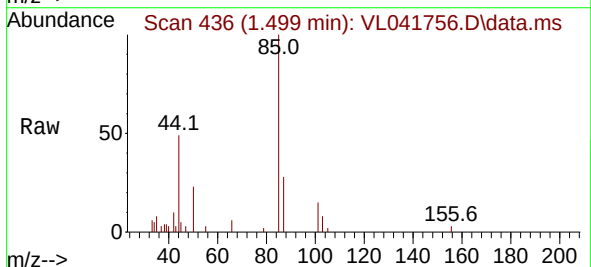
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

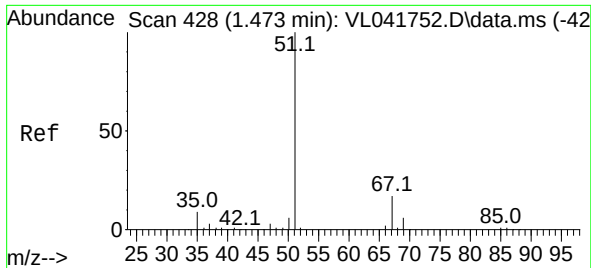
Tgt Ion: 49 Resp: 65926
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.6
130 55.9 28.3 85.0



#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

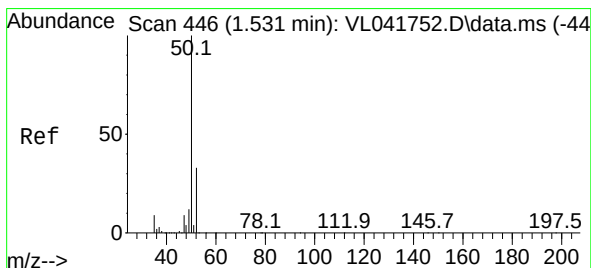
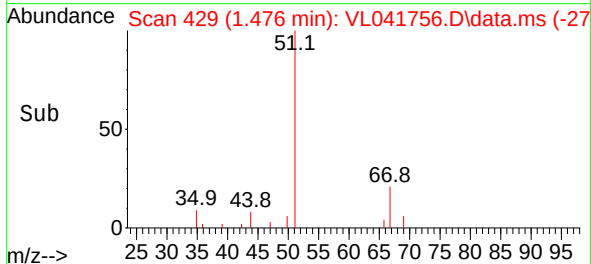
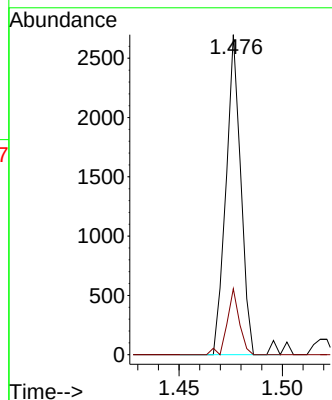
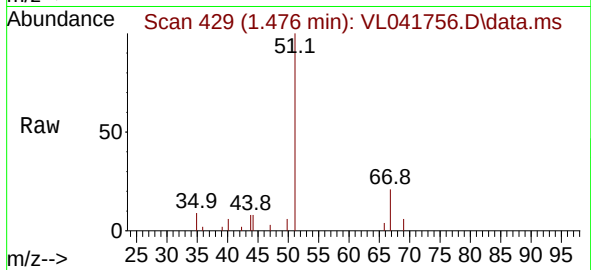




#3
Chlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

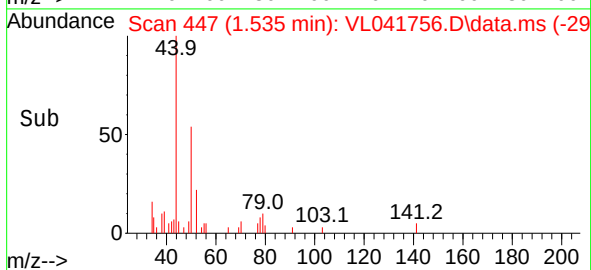
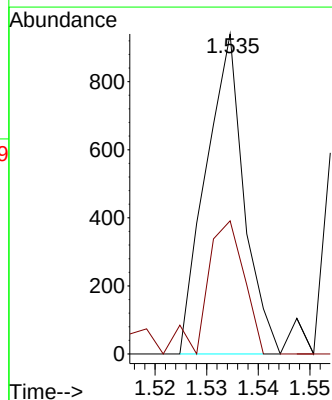
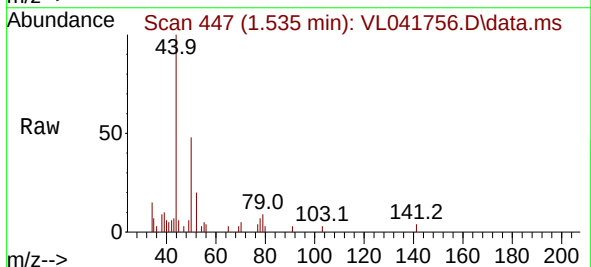
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

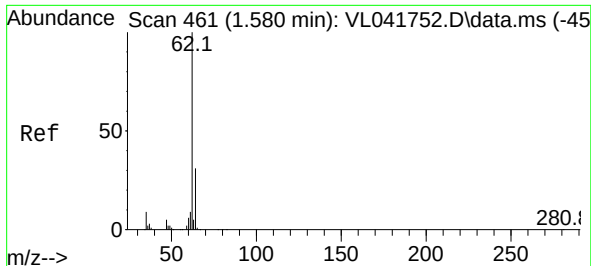
Tgt Ion: 51 Resp: 1363
Ion Ratio Lower Upper
51 100
67 16.6 15.0 22.4



#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#

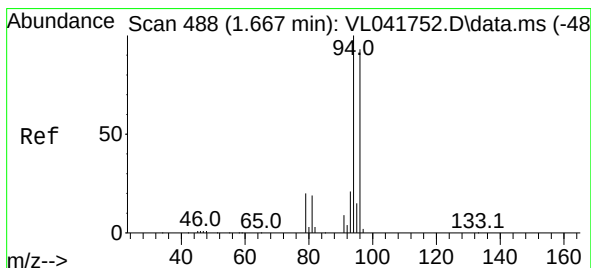
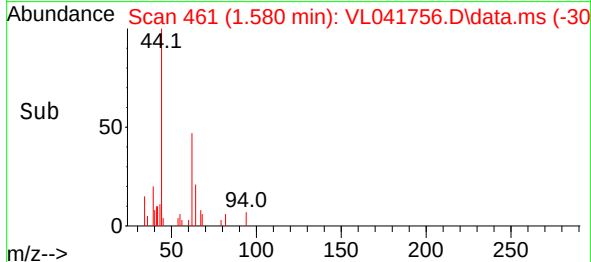
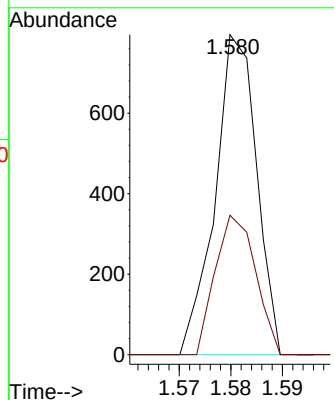
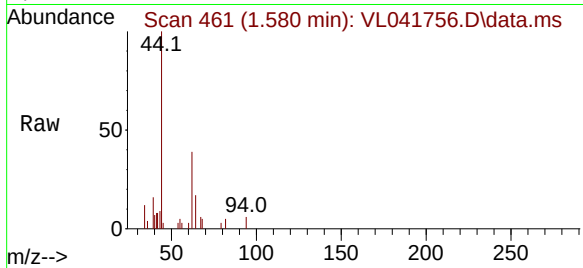




#5
 Vinyl Chloride
 Concen: 0.096 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

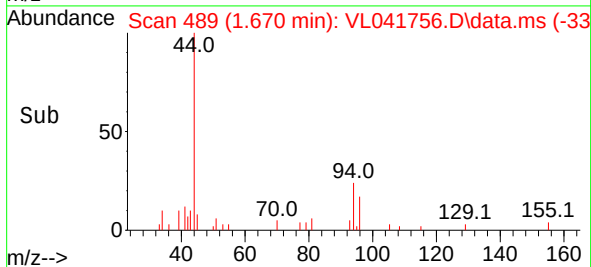
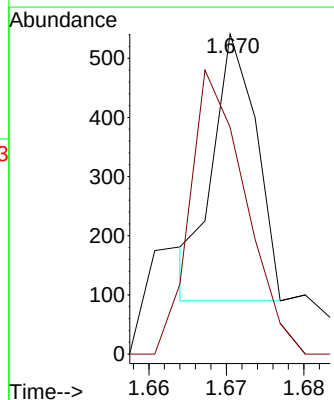
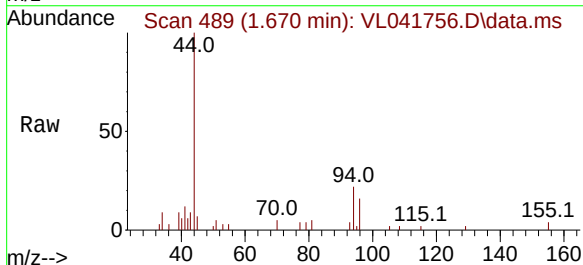
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

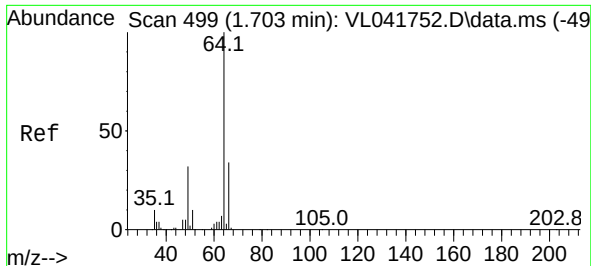
Tgt Ion: 62 Resp: 444
 Ion Ratio Lower Upper
 62 100
 64 43.5 25.1 37.7#



#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#

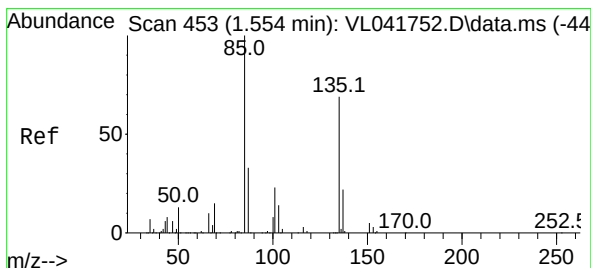
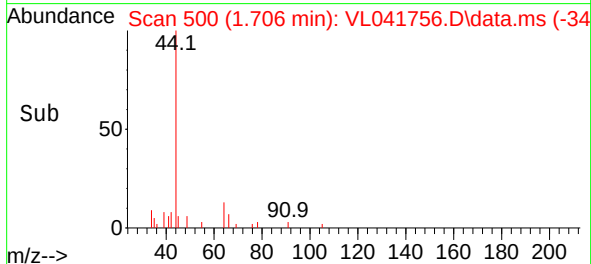
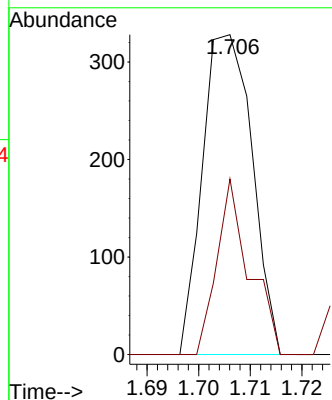
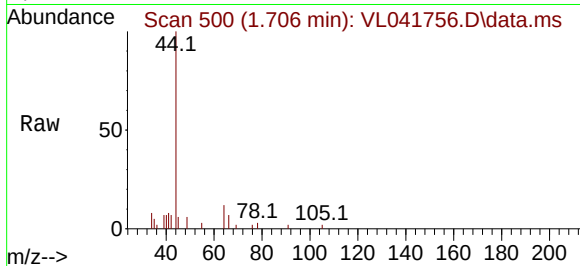




#7
Chloroethane
Concen: 0.122 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

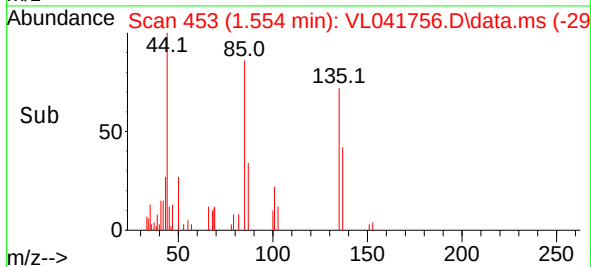
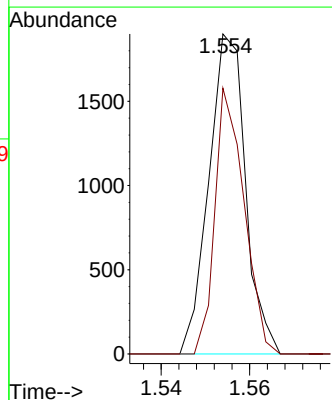
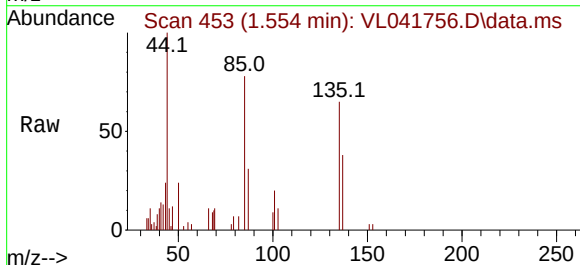
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

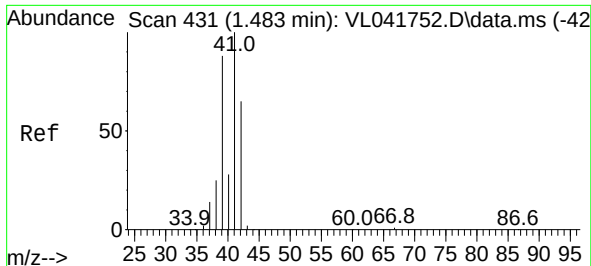
Tgt Ion: 64 Resp: 220
Ion Ratio Lower Upper
64 100
66 54.9 27.5 41.3#



#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 :

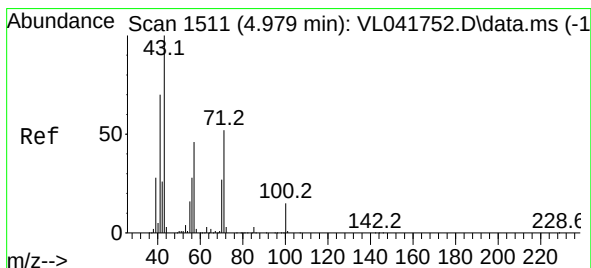
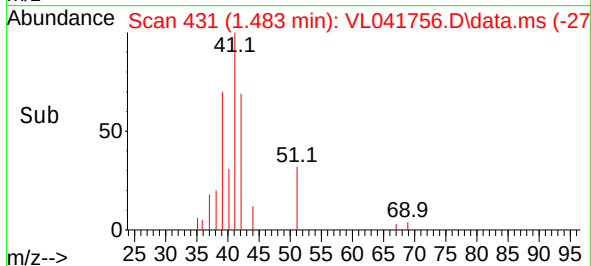
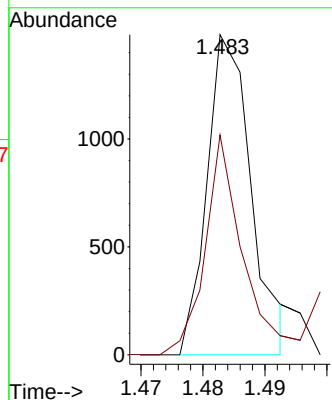
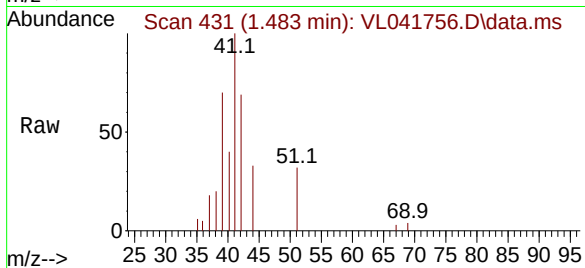
VSTDIC0.1

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

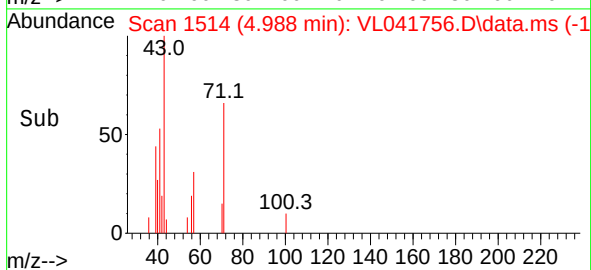
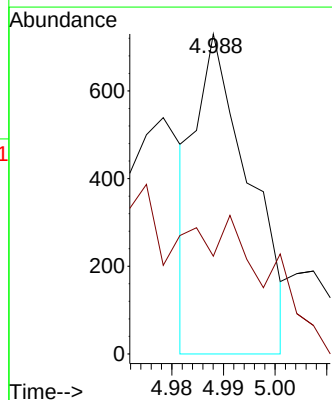
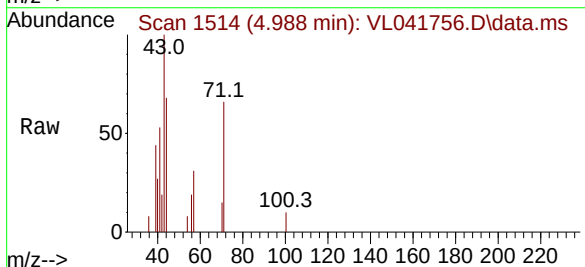
Acq: 16 Dec 2024 15:37

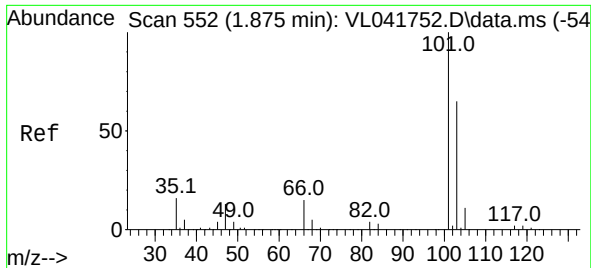
Tgt Ion: 43 Resp: 527

Ion Ratio Lower Upper

43 100

57 0.0 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.108 ppbv

RT: 1.878 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

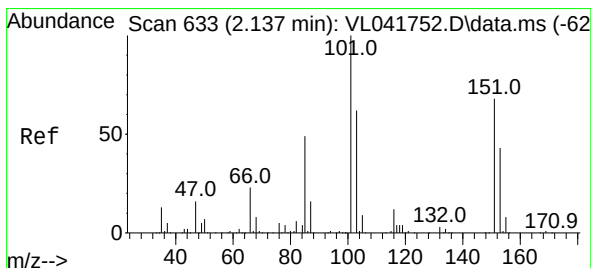
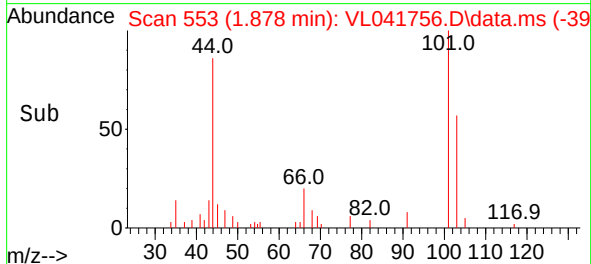
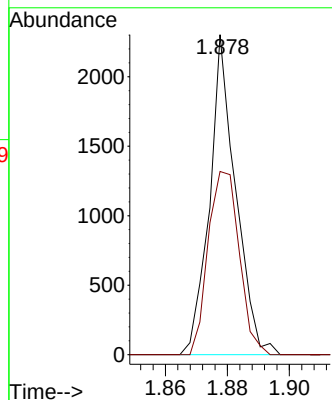
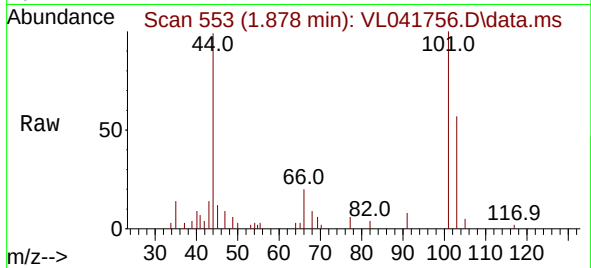
VSTDIC0.1

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

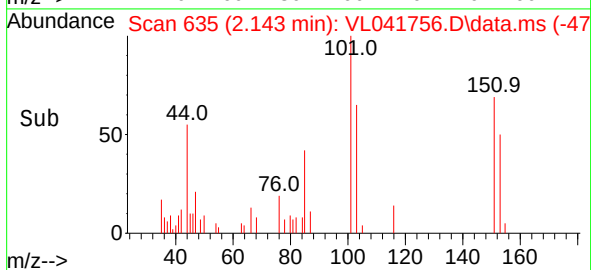
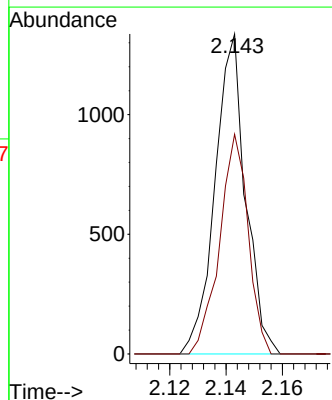
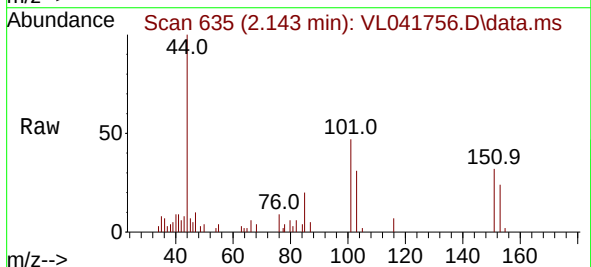
Acq: 16 Dec 2024 15:37

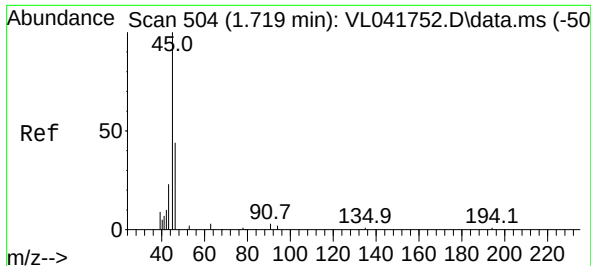
Tgt Ion:101 Resp: 1007

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 :

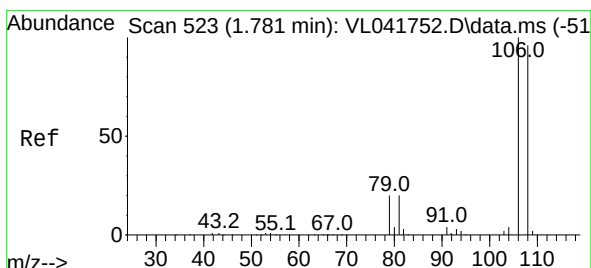
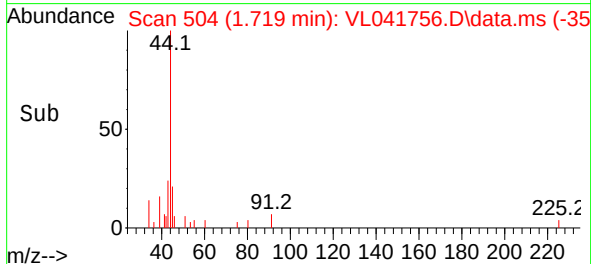
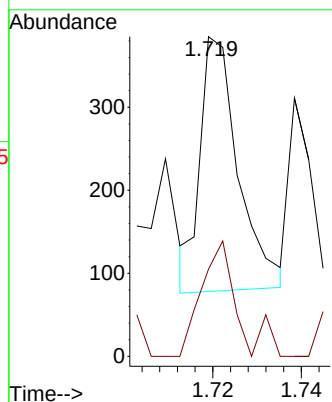
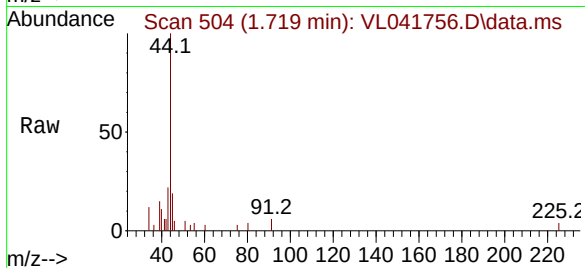
VSTDIC0.1

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

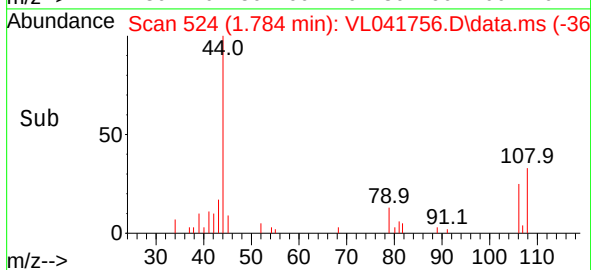
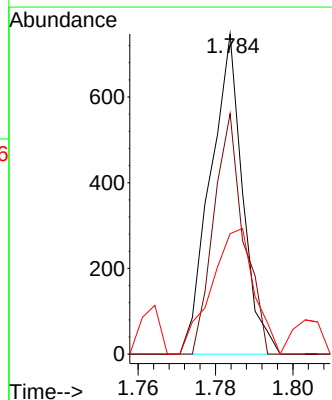
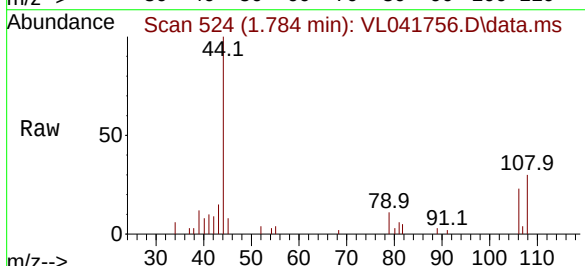
Tgt Ion: 108 Resp: 432

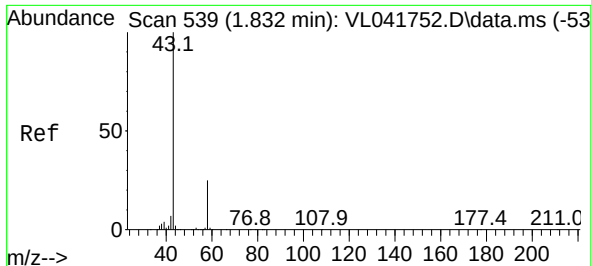
Ion Ratio Lower Upper

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 :

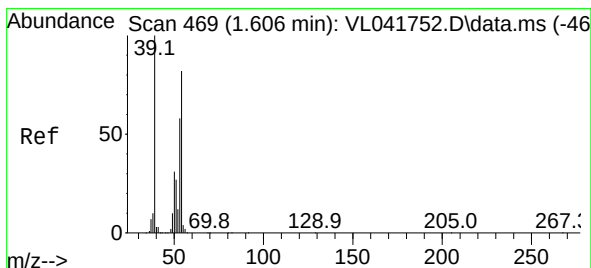
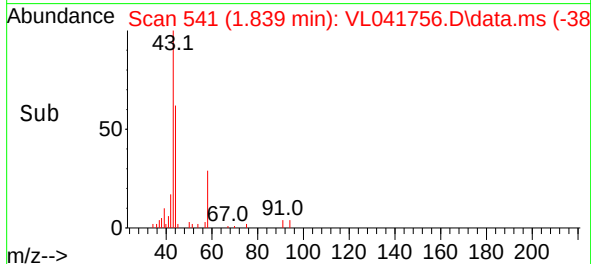
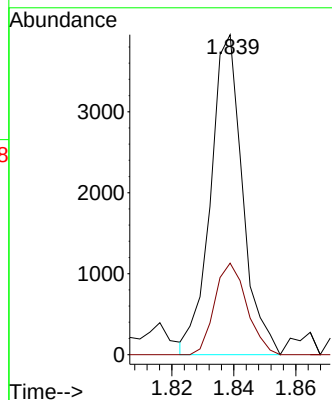
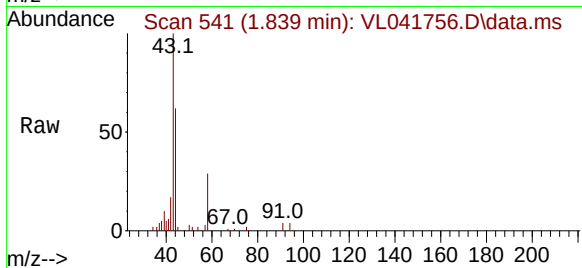
VSTDICC0.1

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

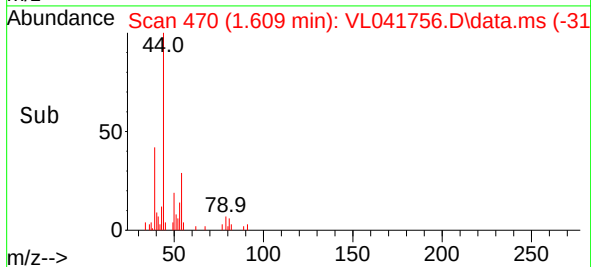
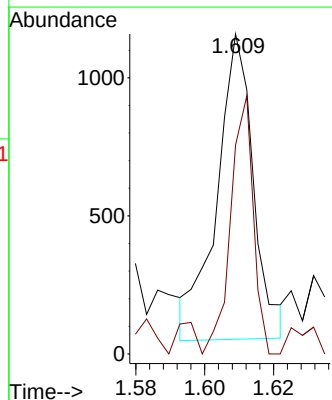
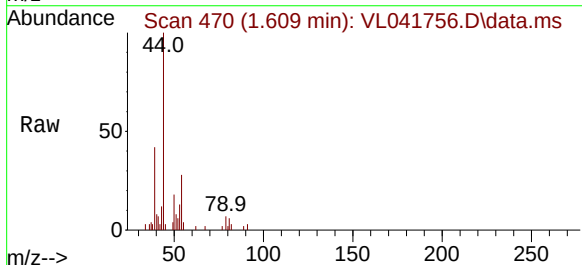
Acq: 16 Dec 2024 15:37

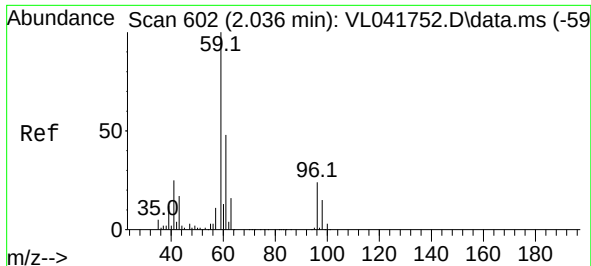
Tgt Ion: 39 Resp: 815

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 :

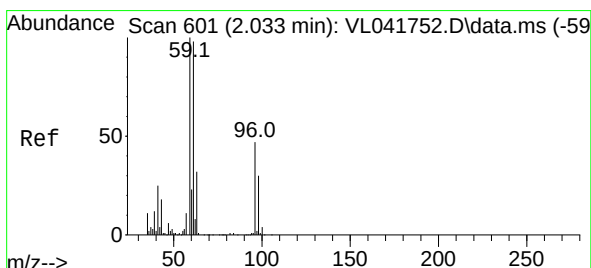
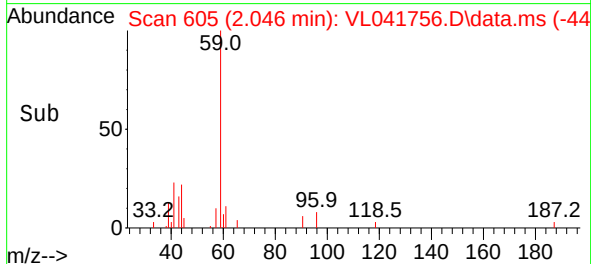
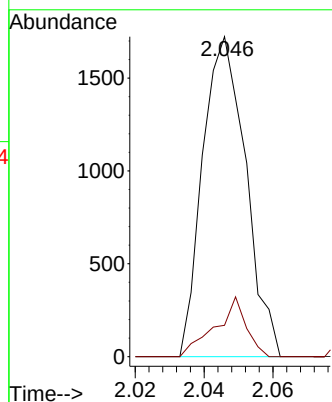
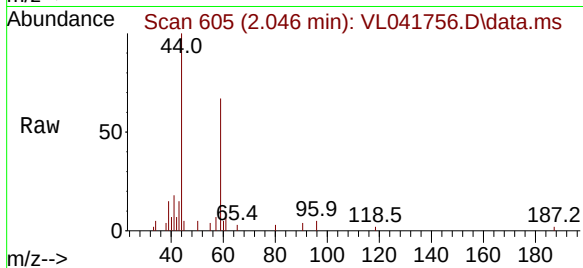
VSTDIC0.1

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

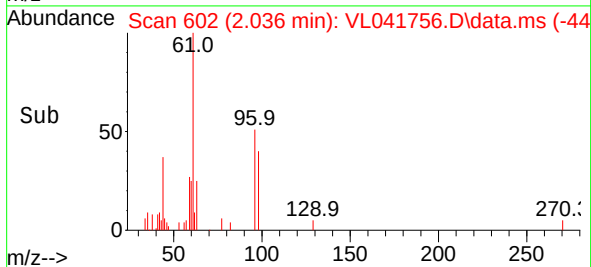
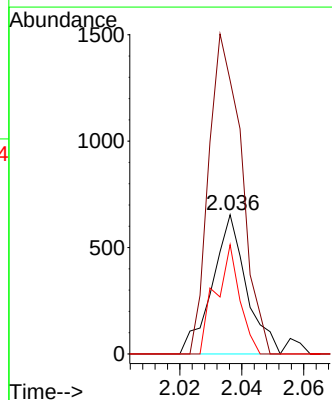
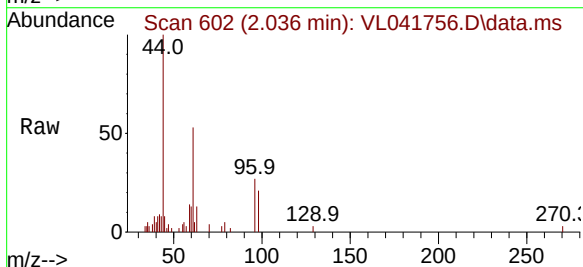
Tgt Ion: 96 Resp: 498

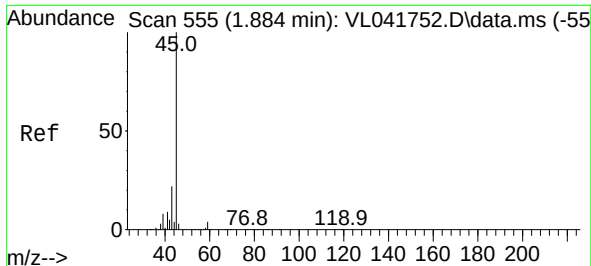
Ion Ratio Lower Upper

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 :

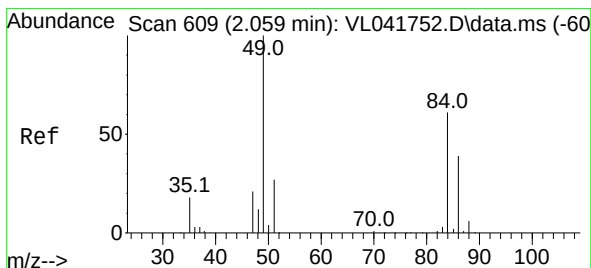
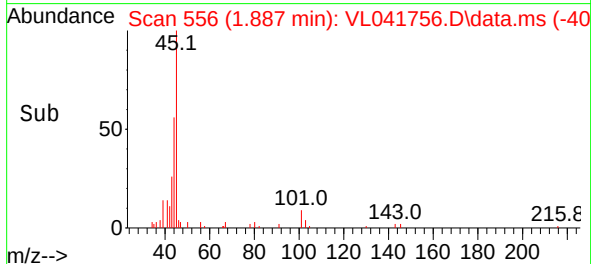
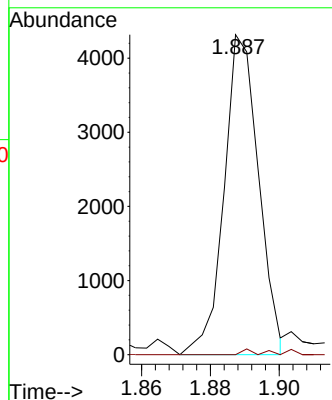
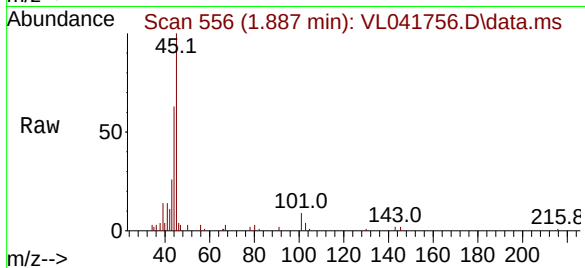
VSTDIC0.1

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

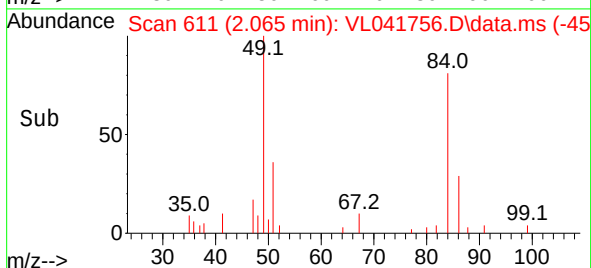
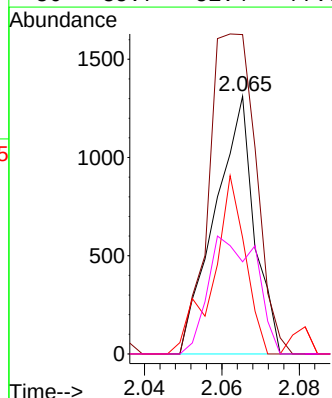
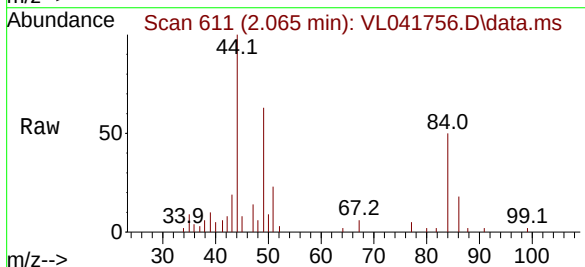
Ion Ratio Lower Upper

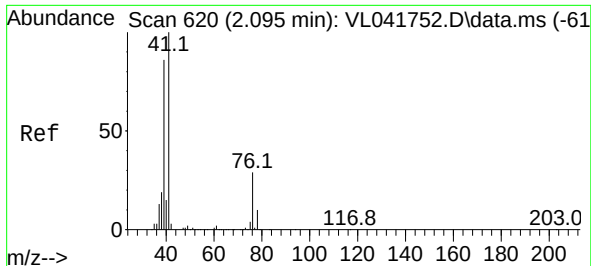
84 100

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

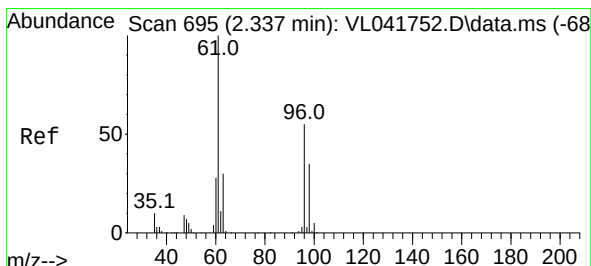
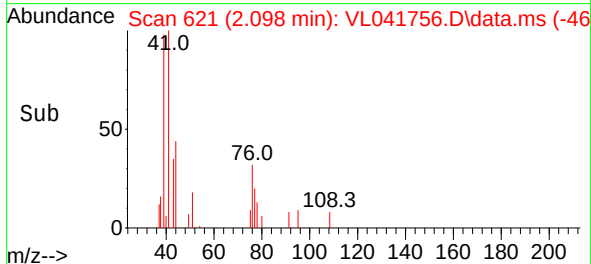
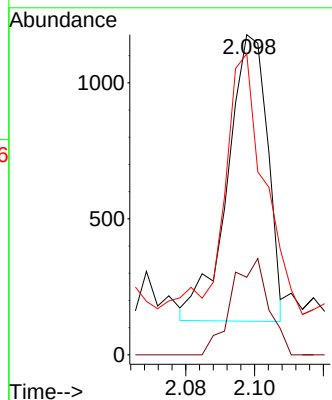
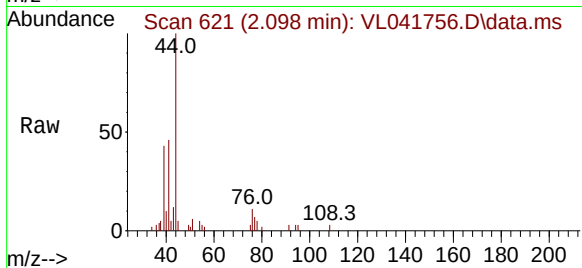
Tgt Ion: 41 Resp: 854

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

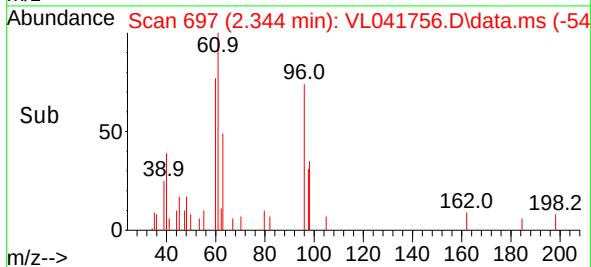
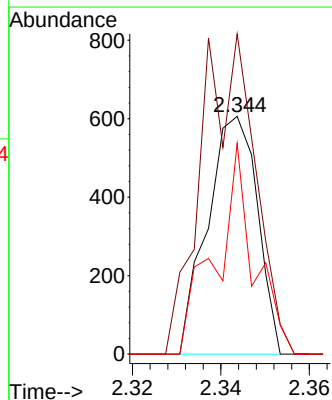
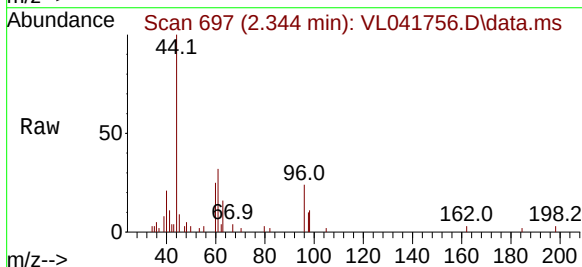
Tgt Ion: 96 Resp: 476

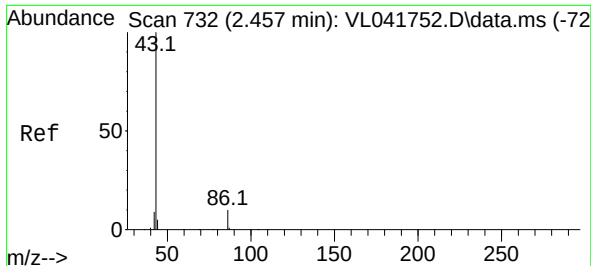
Ion Ratio Lower Upper

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

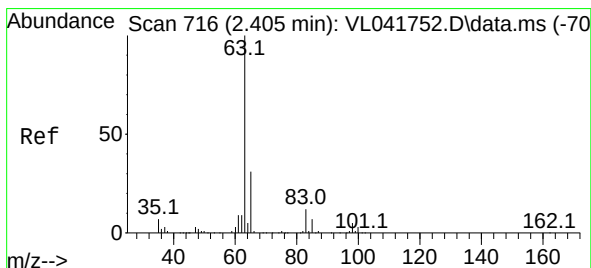
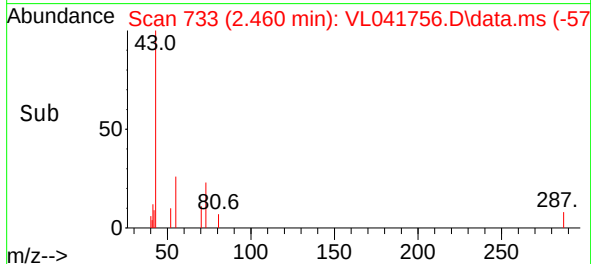
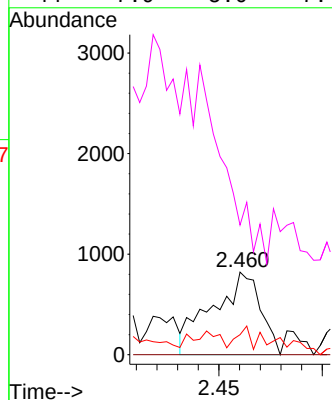
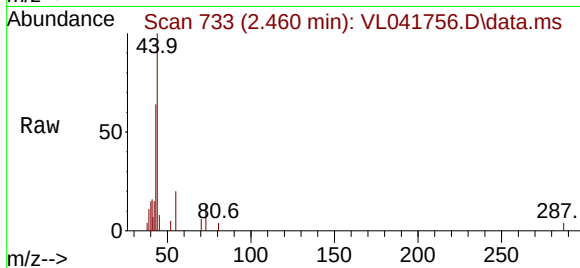
Ion Ratio Lower Upper

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

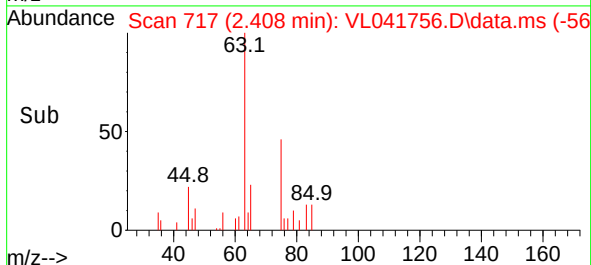
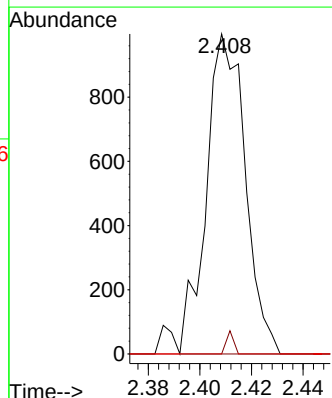
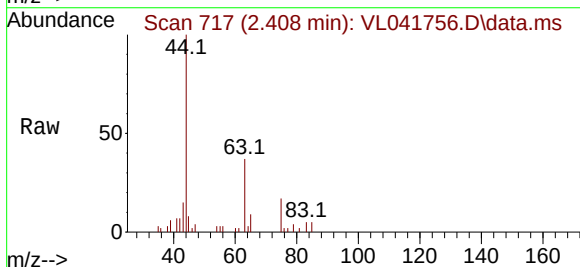
Tgt Ion: 63 Resp: 1044

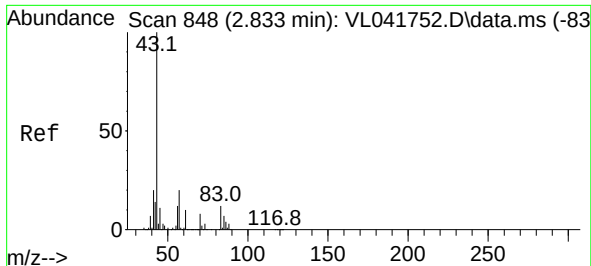
Ion Ratio Lower Upper

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

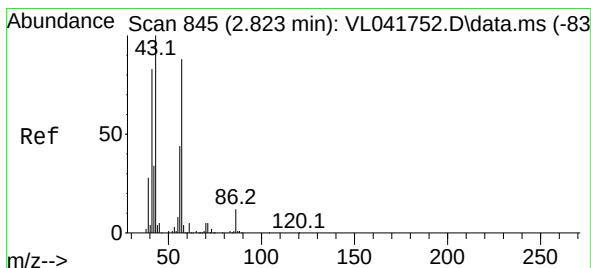
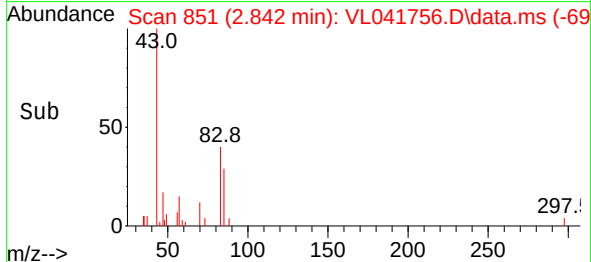
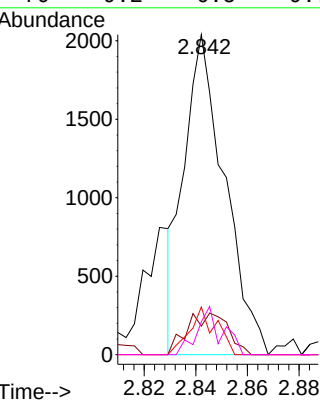
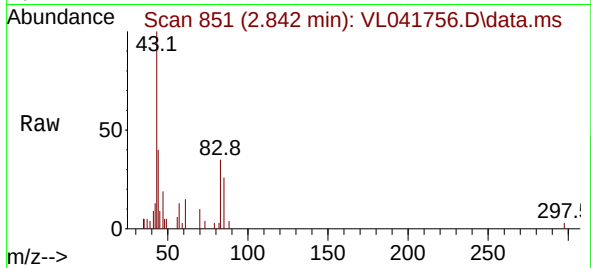
Ion Ratio Lower Upper

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

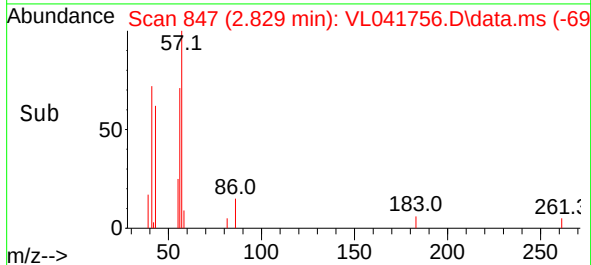
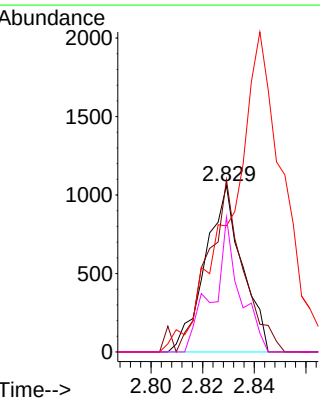
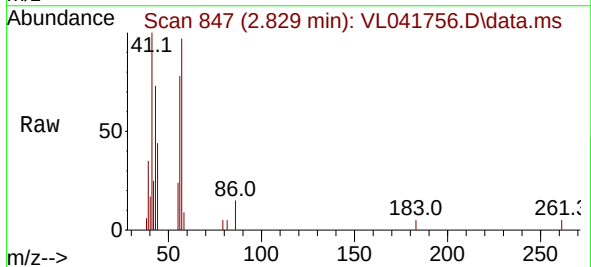
Ion Ratio Lower Upper

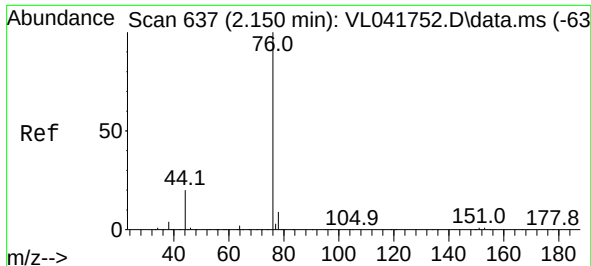
57 100

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

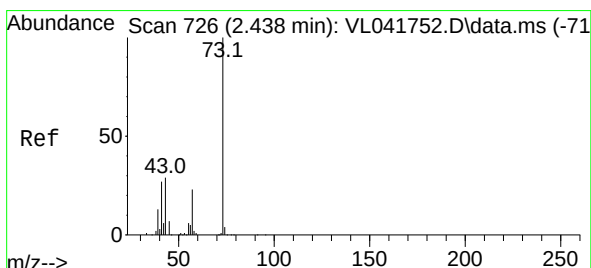
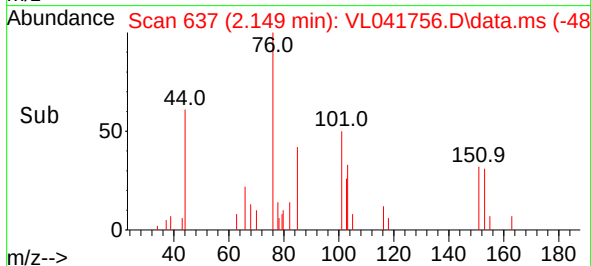
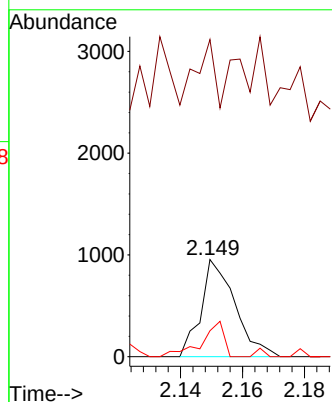
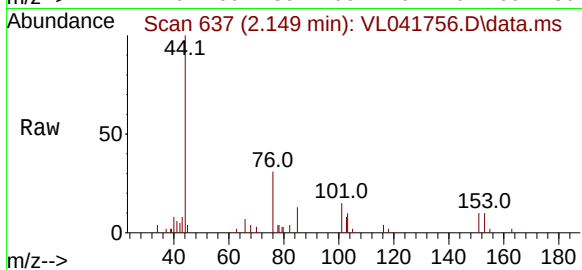
Tgt Ion: 76 Resp: 729

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

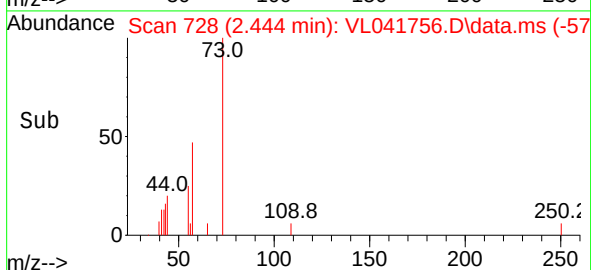
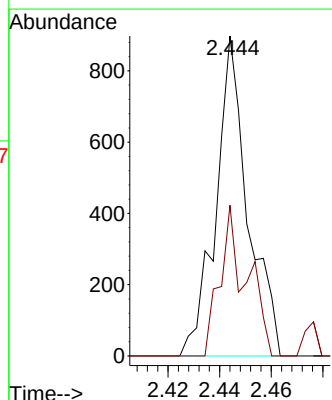
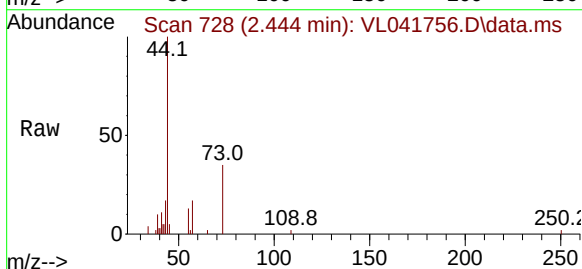
Acq: 16 Dec 2024 15:37

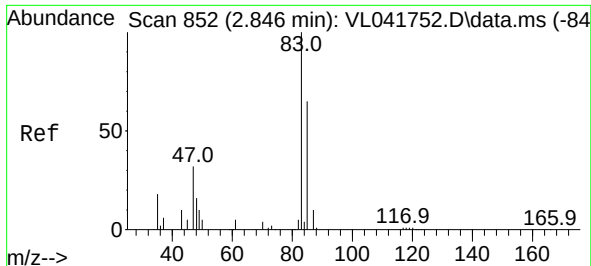
Tgt Ion: 73 Resp: 774

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 :

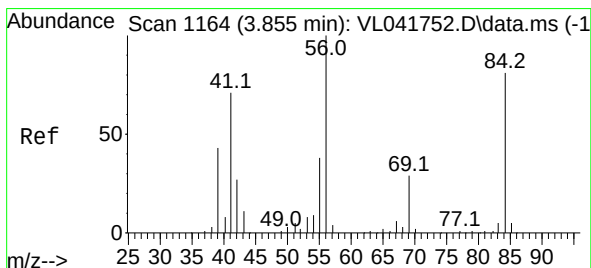
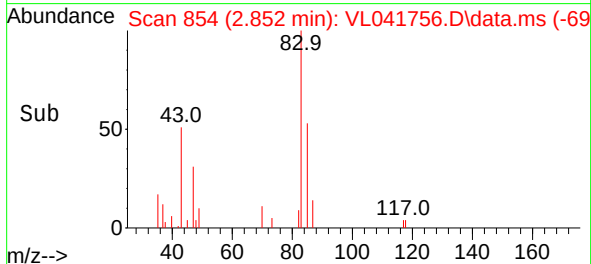
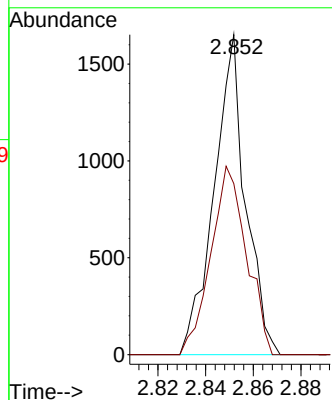
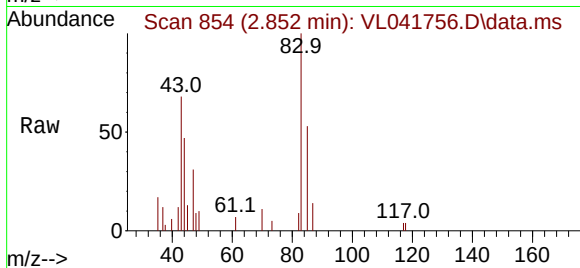
VSTDIC0.1

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

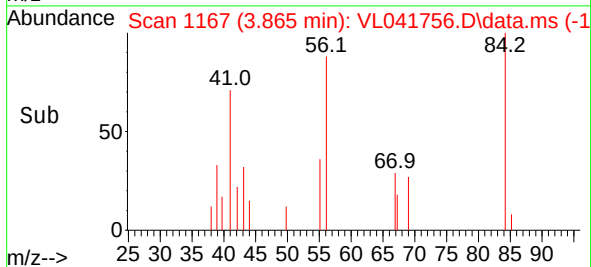
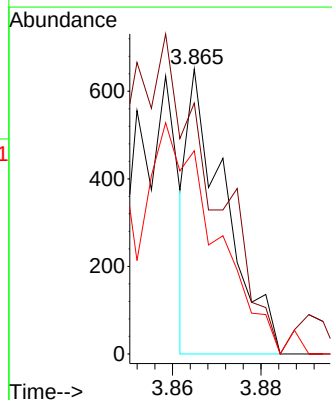
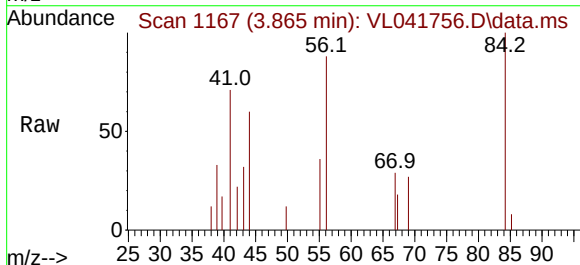
Tgt Ion: 84 Resp: 377

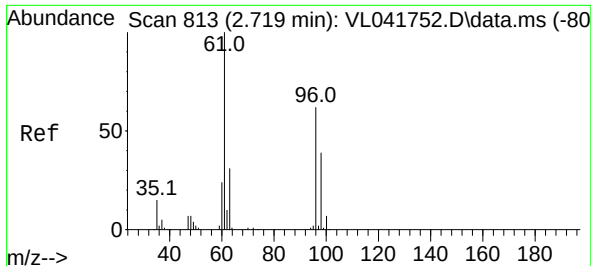
Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 0.0 74.0 111.0#

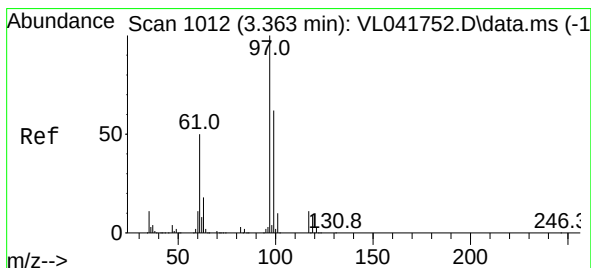
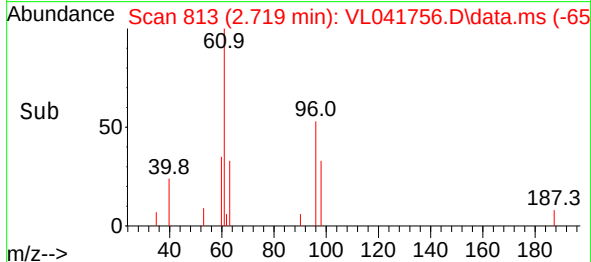
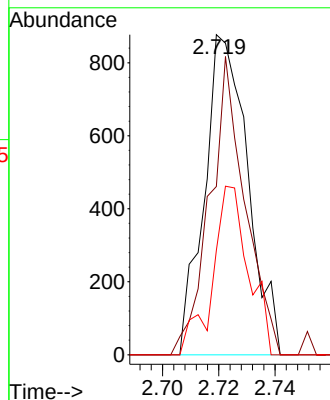
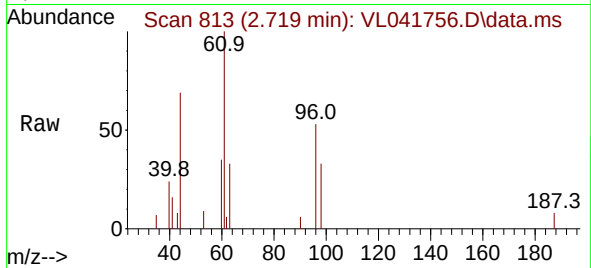




#31
 cis-1,2-Dichloroethene
 Concen: 0.100 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041756.D
 Acq: 16 Dec 2024 15:37

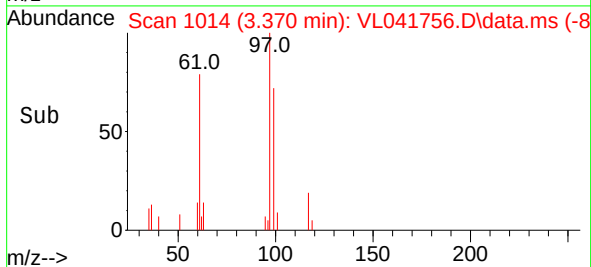
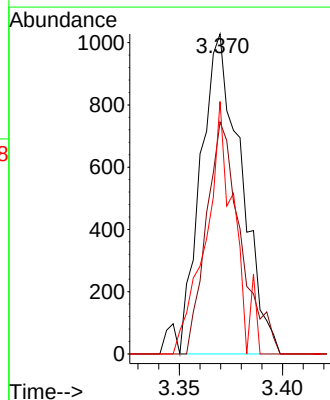
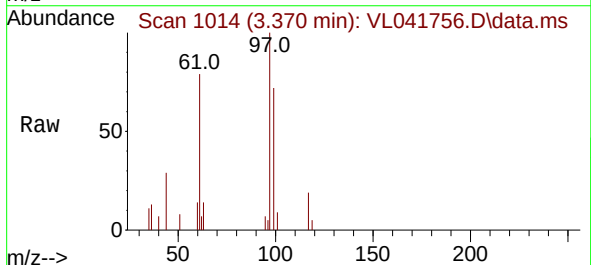
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

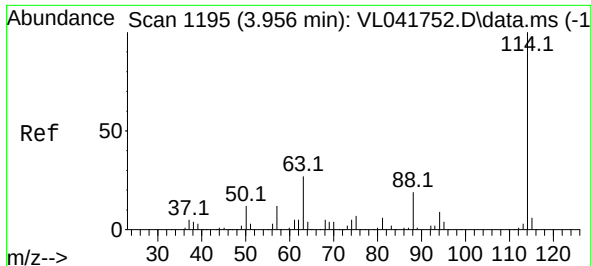
Tgt Ion: 61 Resp: 940
 Ion Ratio Lower Upper
 61 100
 96 49.7 49.7 74.5
 98 30.9 30.8 46.2



#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

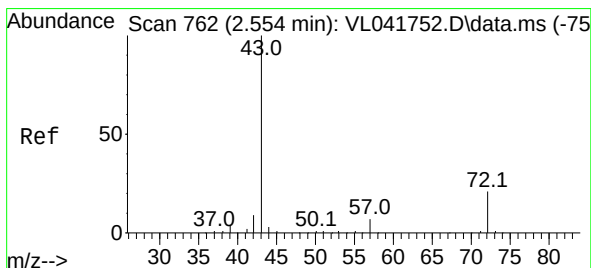
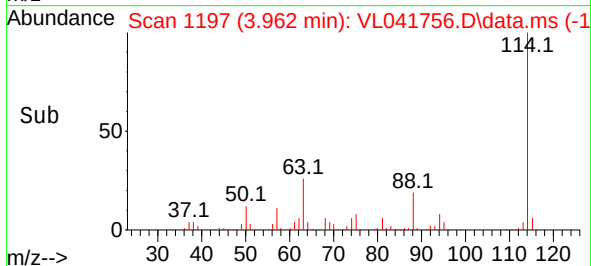
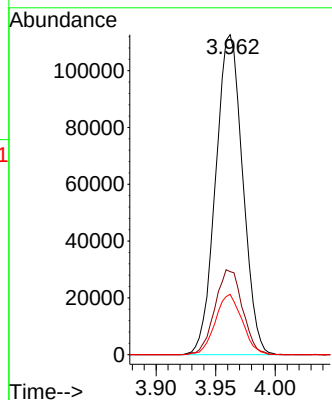
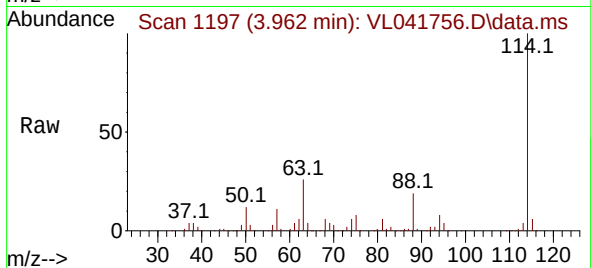
Tgt Ion:114 Resp: 177964

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

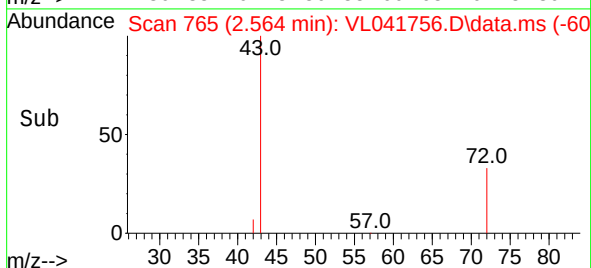
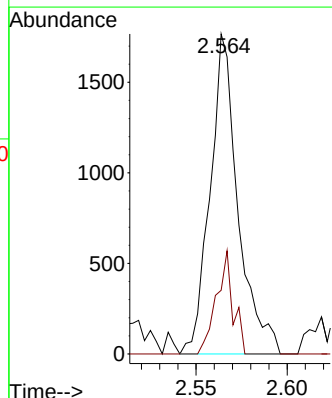
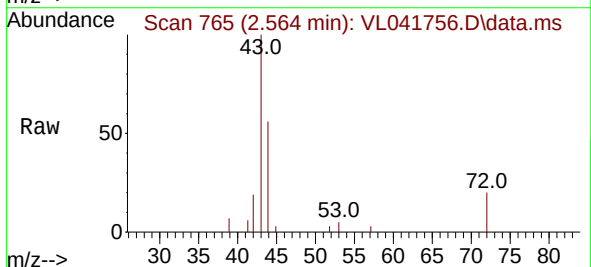
Acq: 16 Dec 2024 15:37

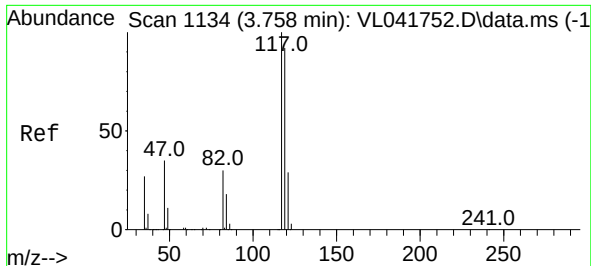
Tgt Ion: 43 Resp: 1888

Ion Ratio Lower Upper

43 100

72 19.2 16.8 25.2

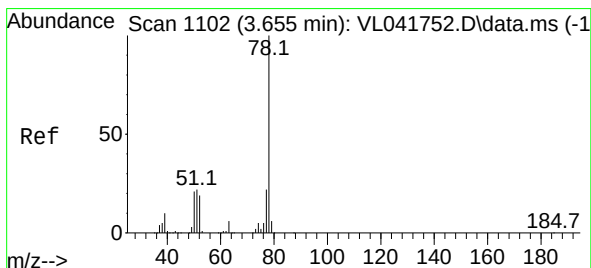
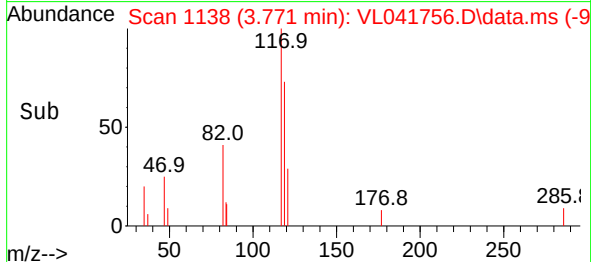
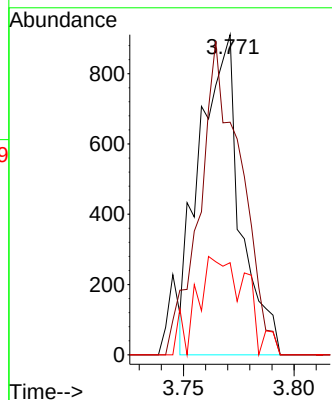
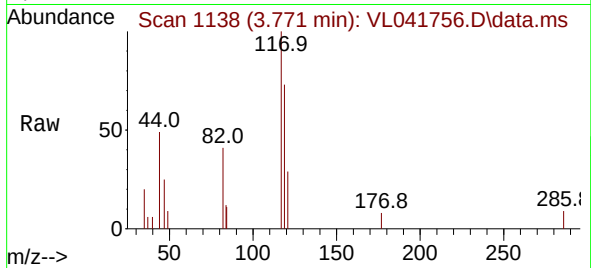




#35
Carbon Tetrachloride
Concen: 0.093 ppbv
RT: 3.771 min Scan# 1134
Delta R.T. 0.013 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

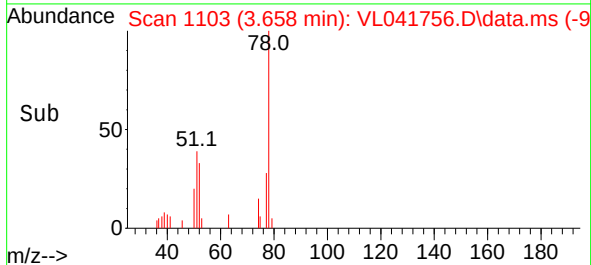
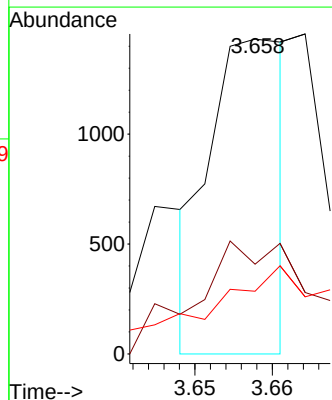
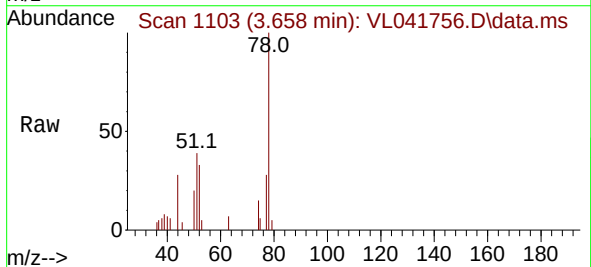
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

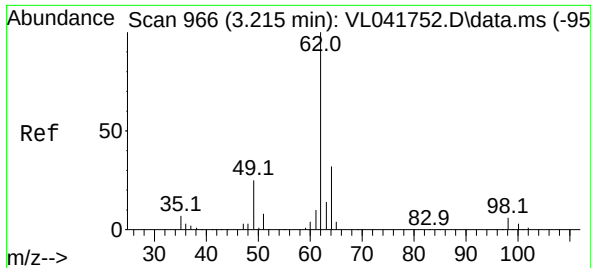
Tgt Ion:117 Resp: 1170
Ion Ratio Lower Upper
117 100
119 72.7 73.7 110.5#
121 28.8 23.0 34.4



#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 :

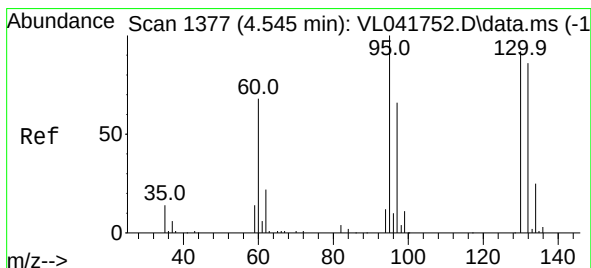
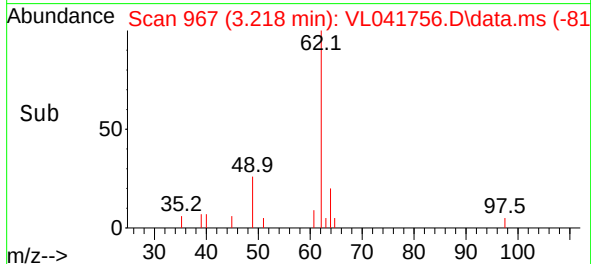
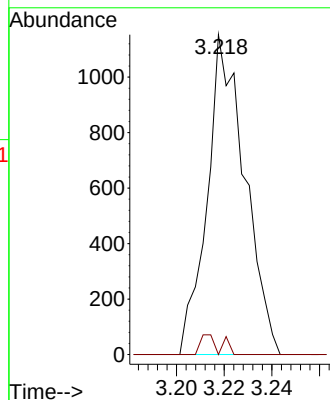
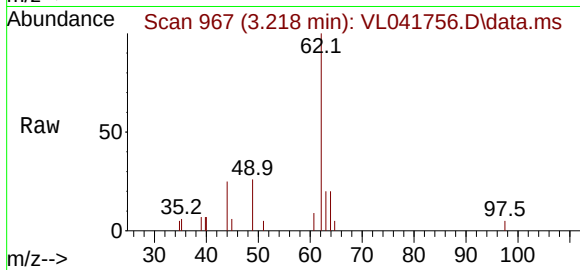
VSTDIC0.1

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

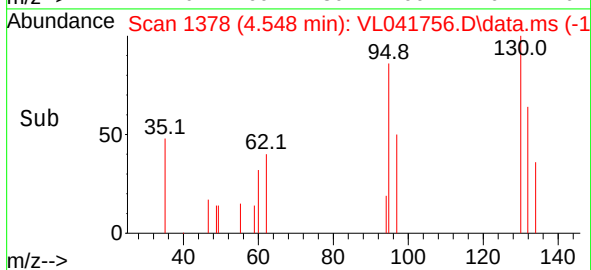
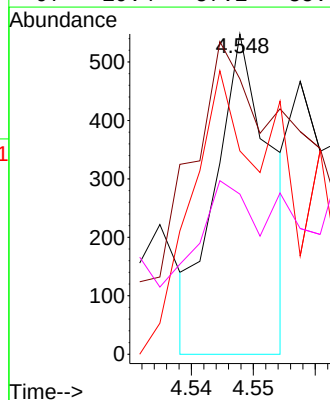
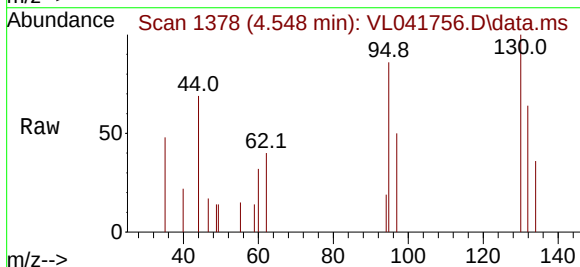
Ion Ratio Lower Upper

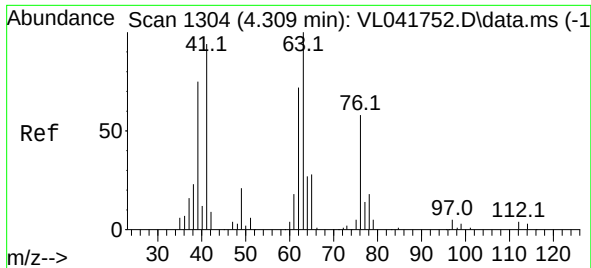
130 100

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

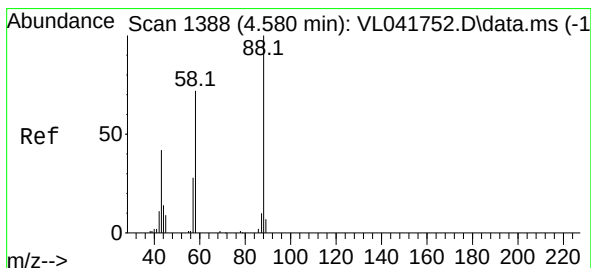
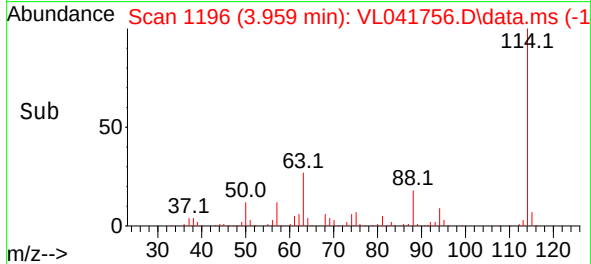
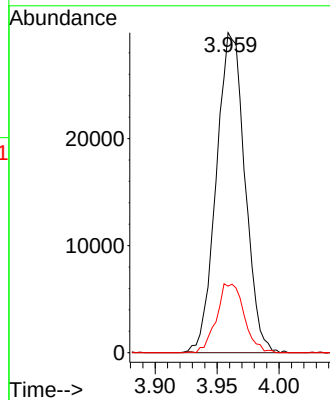
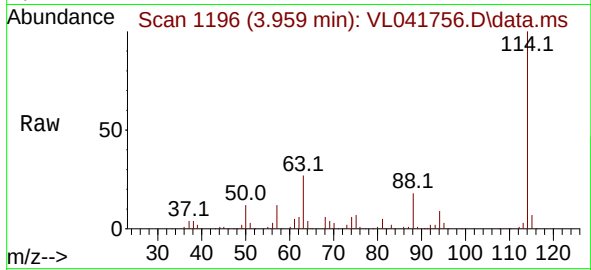
Tgt Ion: 63 Resp: 48044

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

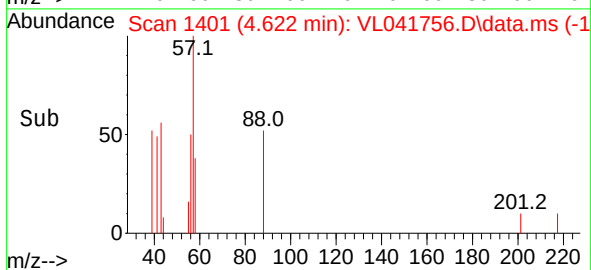
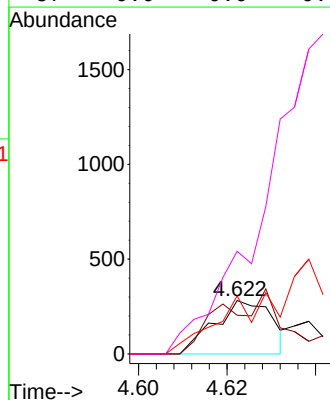
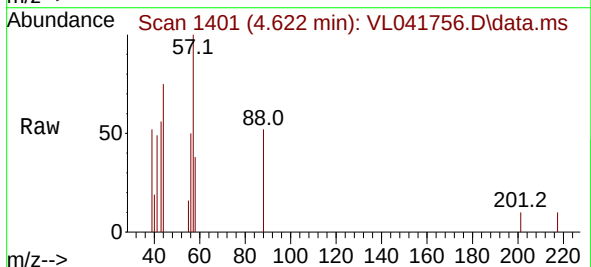
Ion Ratio Lower Upper

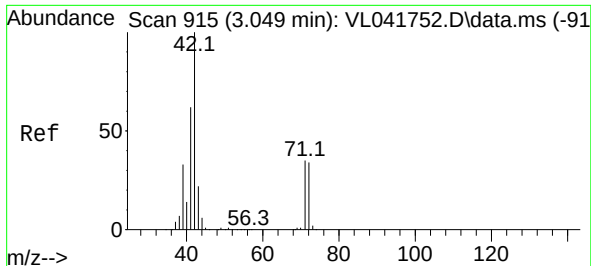
88 100

58 175.2 61.0 91.6#

43 0.0 29.4 44.0#

57 0.0 0.0 0.0

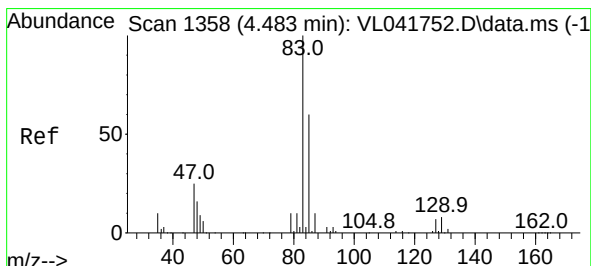
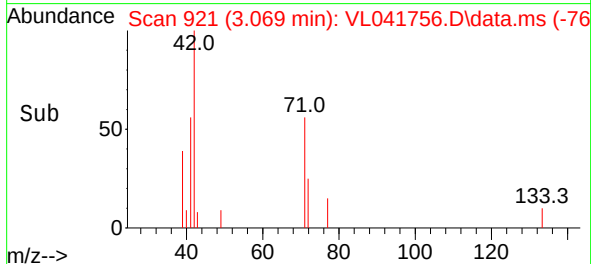
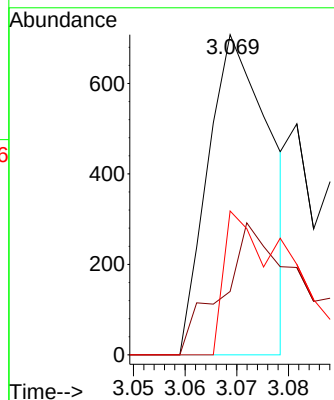
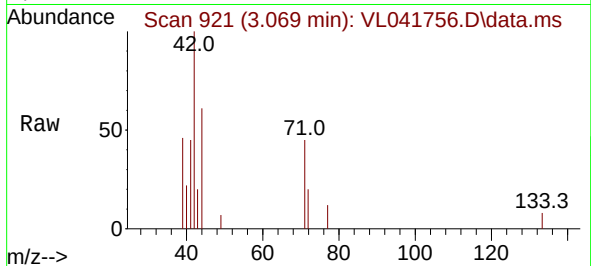




#41
Tetrahydrofuran
Concen: 0.074 ppbv
RT: 3.069 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

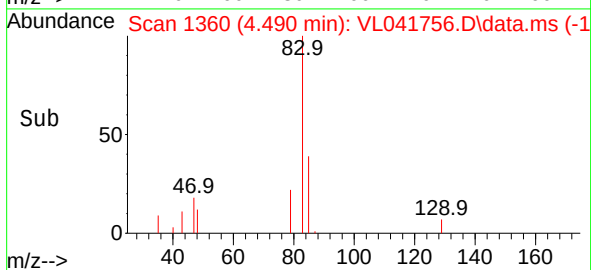
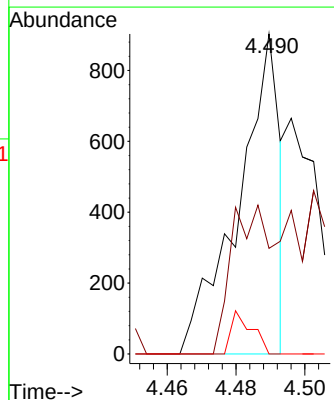
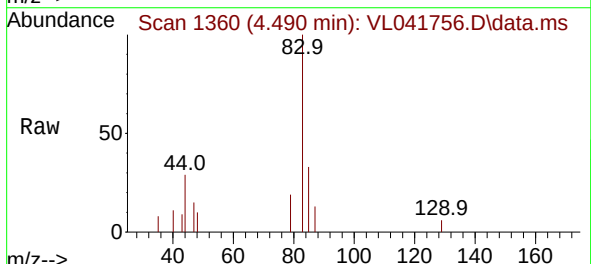
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

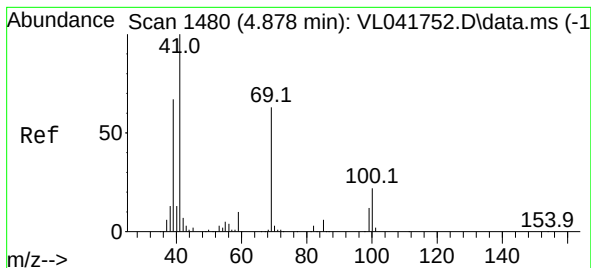
Tgt Ion:	42	Resp:	593
Ion	Ratio	Lower	Upper
42	100		
72	52.3	29.1	43.7#
71	47.6	28.4	42.6#



#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

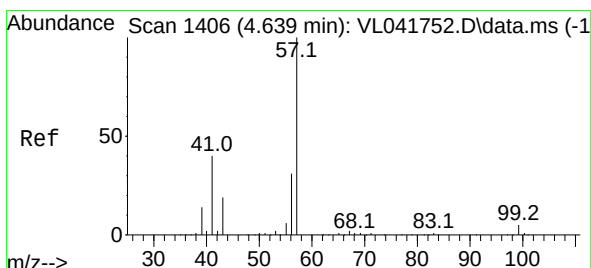
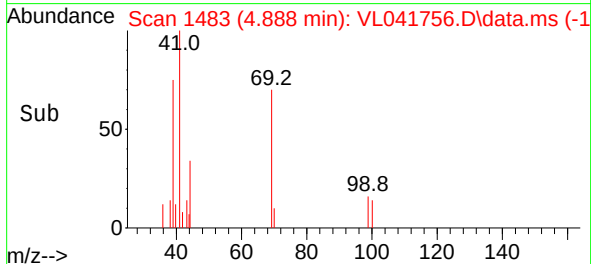
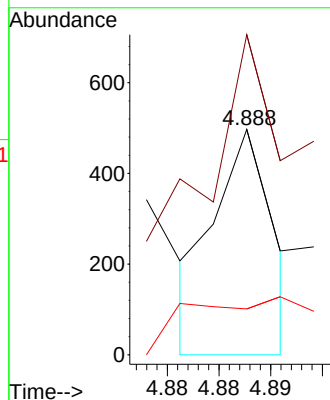
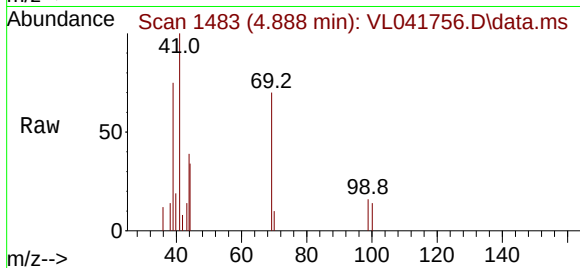
Tgt Ion: 69 Resp: 197

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

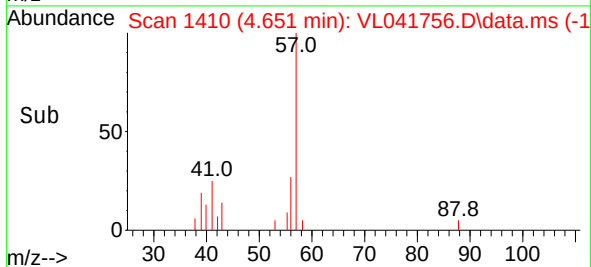
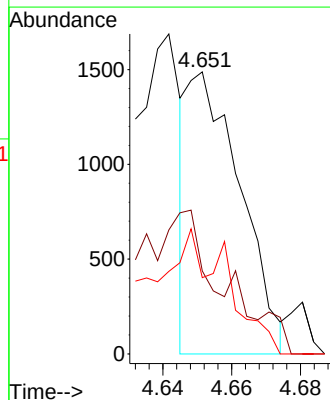
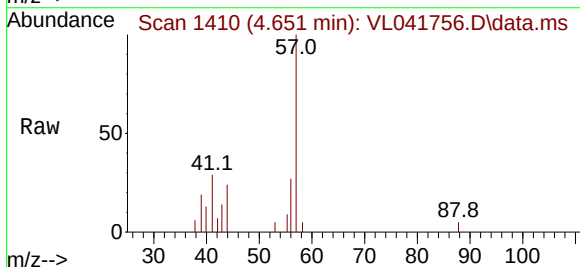
Tgt Ion: 57 Resp: 1584

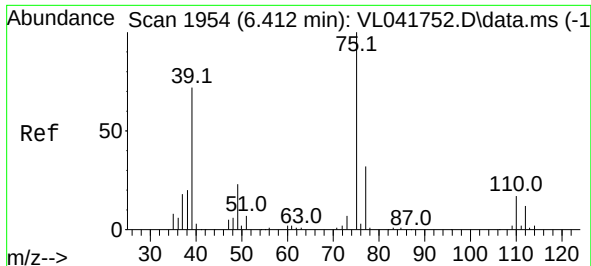
Ion Ratio Lower Upper

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 :

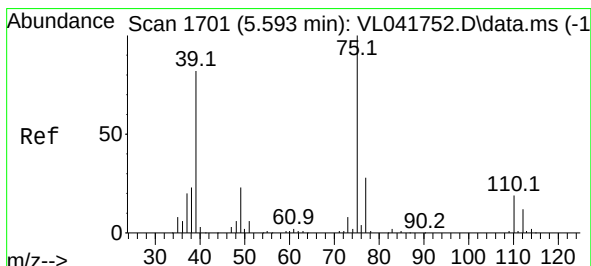
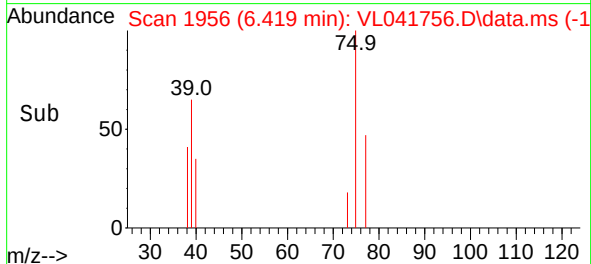
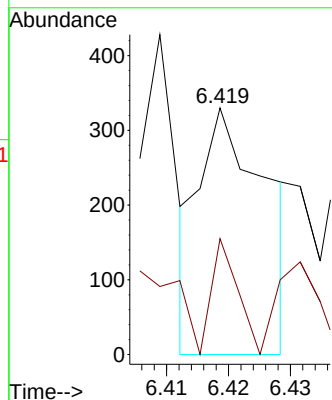
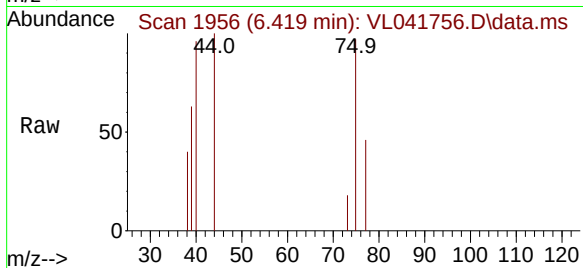
VSTDIC0.1

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

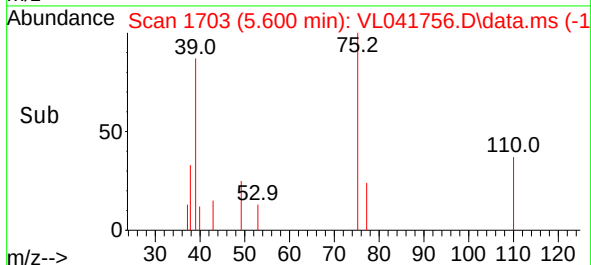
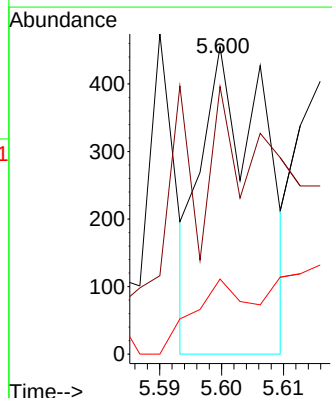
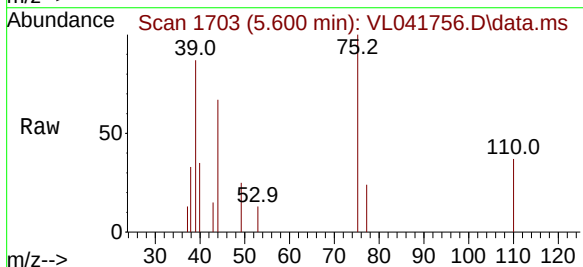
Tgt Ion: 75 Resp: 315

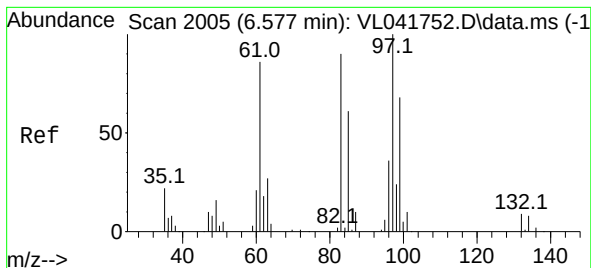
Ion Ratio Lower Upper

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

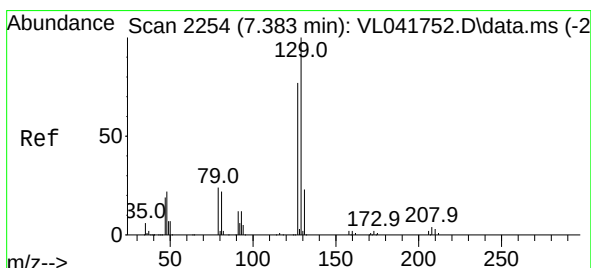
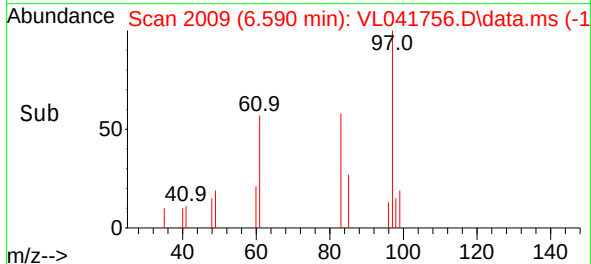
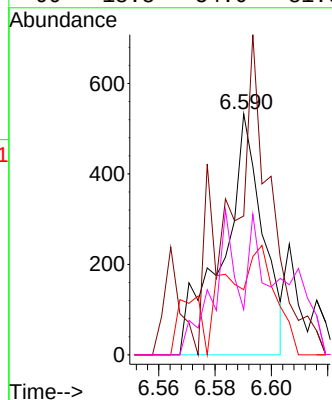
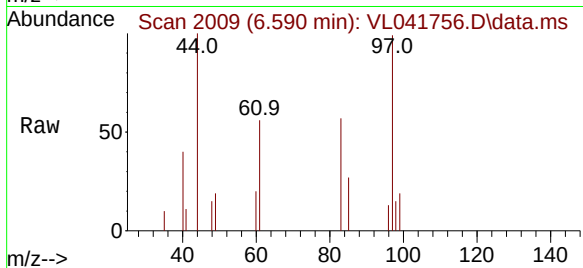
Ion Ratio Lower Upper

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

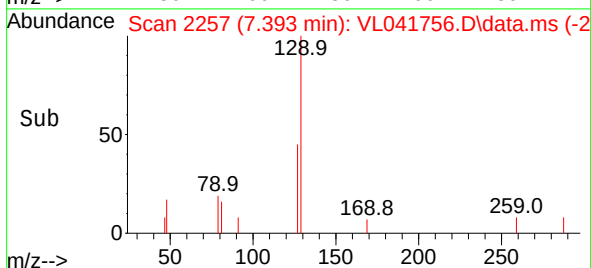
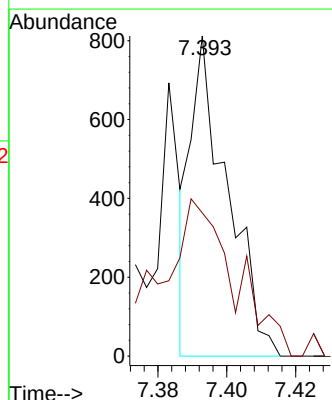
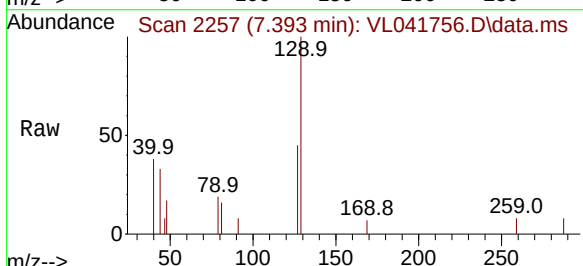
Acq: 16 Dec 2024 15:37

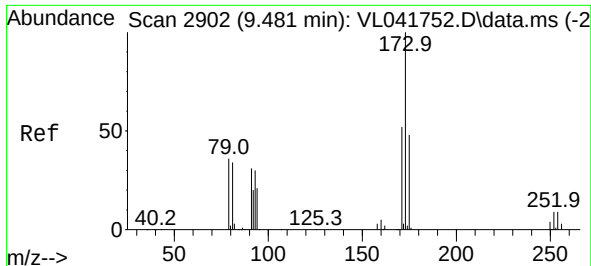
Tgt Ion: 129 Resp: 599

Ion Ratio Lower Upper

129 100

127 102.2 38.8 116.3





#49

Bromoform

Concen: 0.022 ppbv

RT: 9.493 min Scan# 2902

Delta R.T. 0.013 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

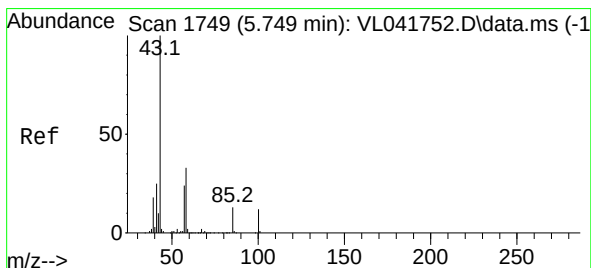
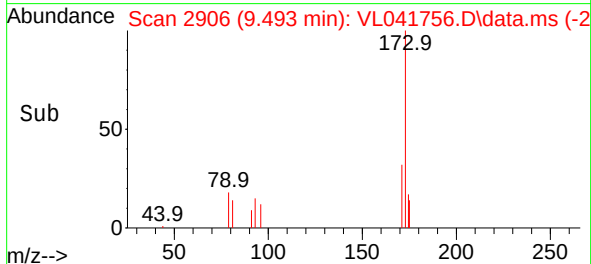
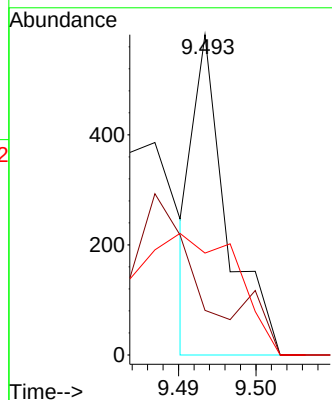
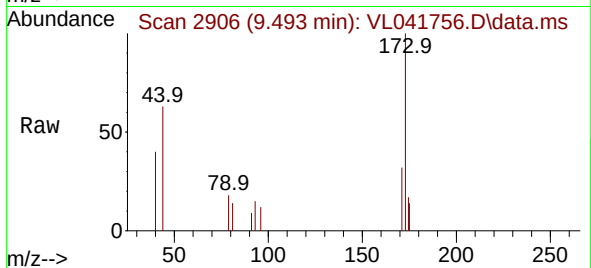
MSVOA_1

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

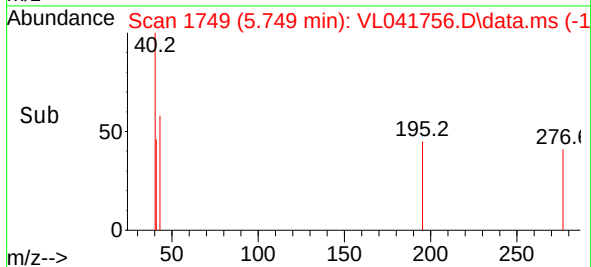
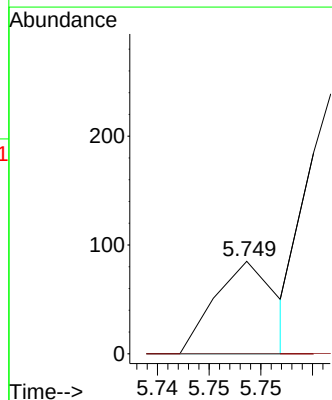
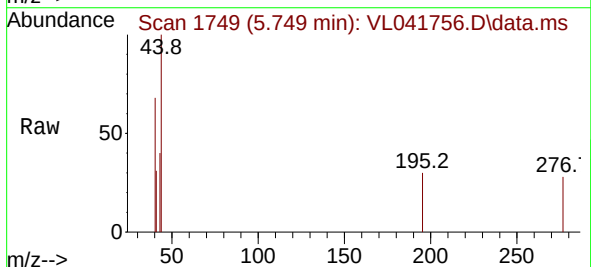
Delta R.T. -0.000 min

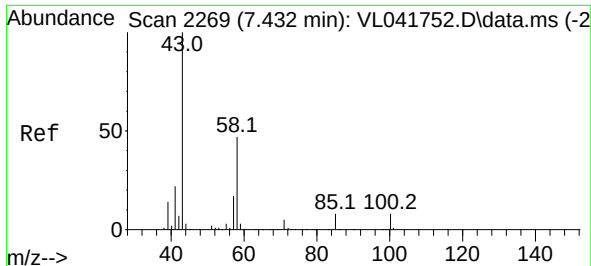
Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Tgt Ion: 43 Resp: 36

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.8	40.2#

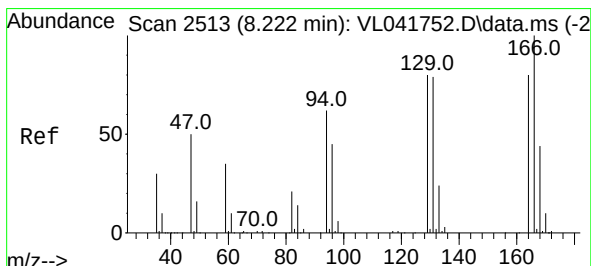
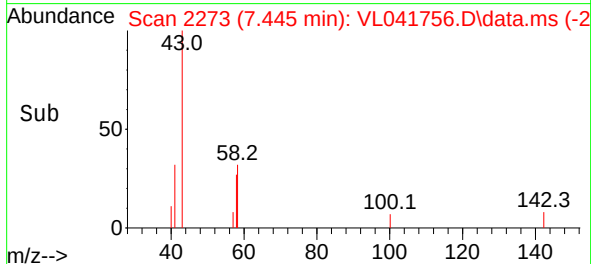
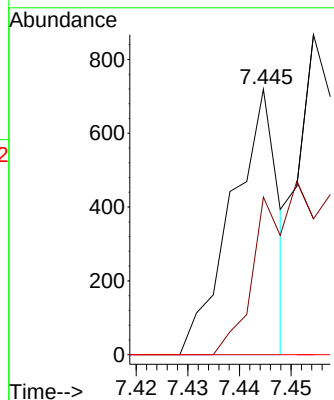
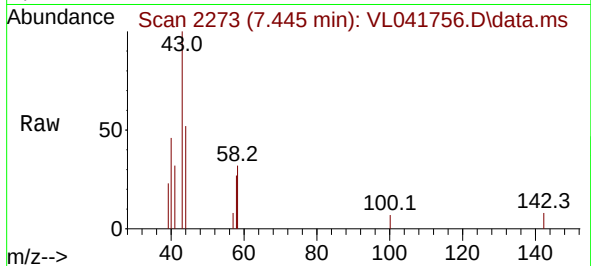




#51
2-Hexanone
Concen: 0.028 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

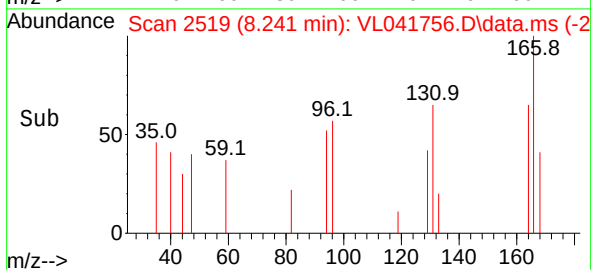
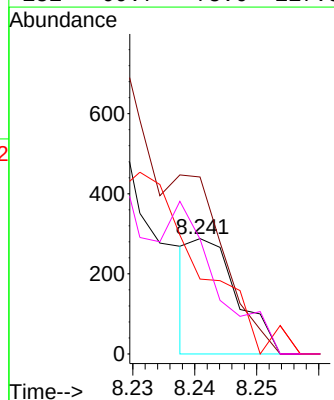
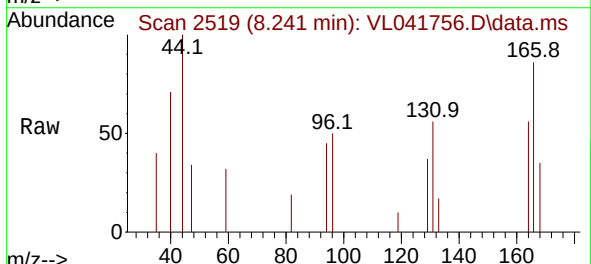
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

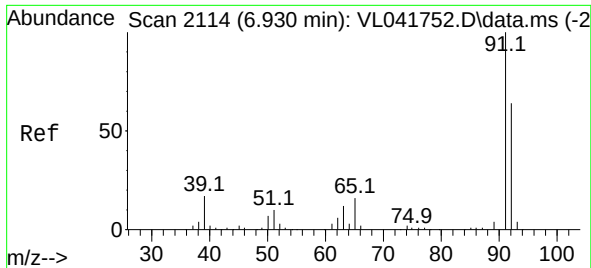
Tgt Ion: 43 Resp: 446
Ion Ratio Lower Upper
43 100
58 176.7 36.6 55.0#
98 0.0 0.1 0.1#



#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 :

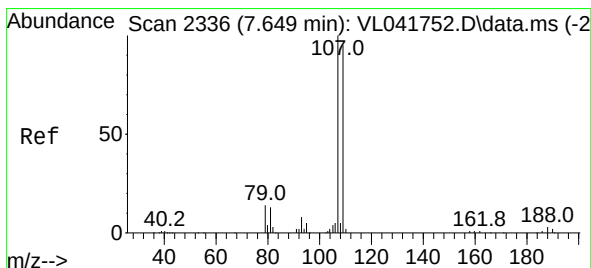
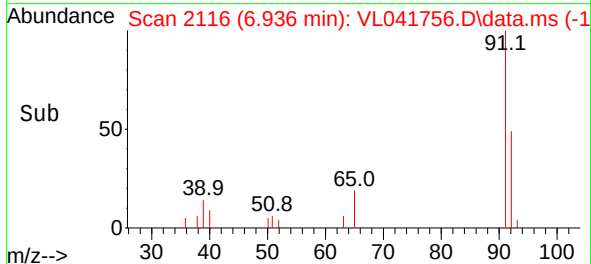
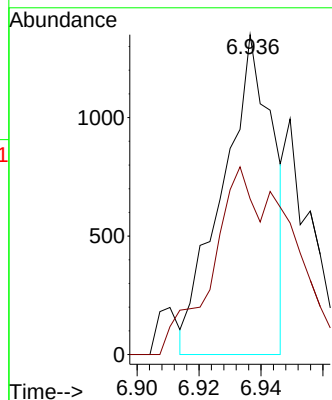
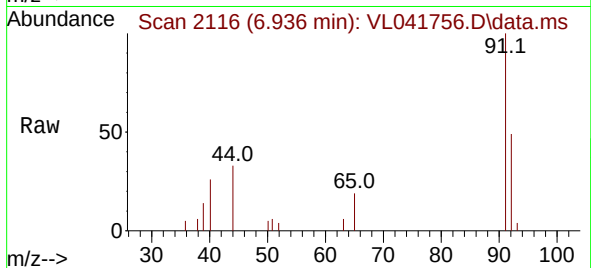
VSTDIC0.1

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

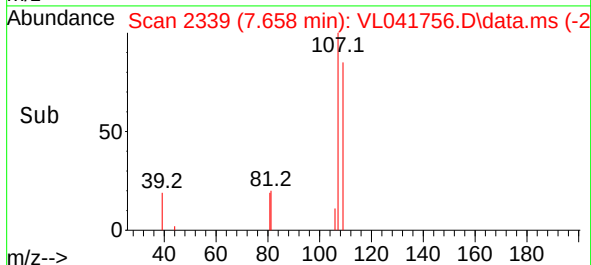
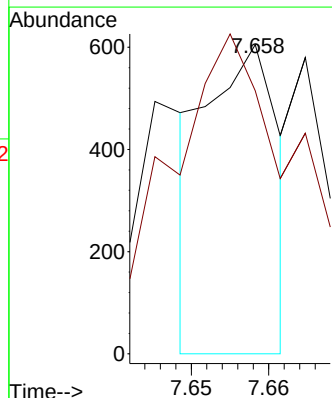
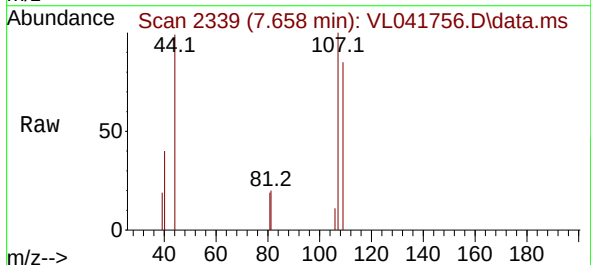
Acq: 16 Dec 2024 15:37

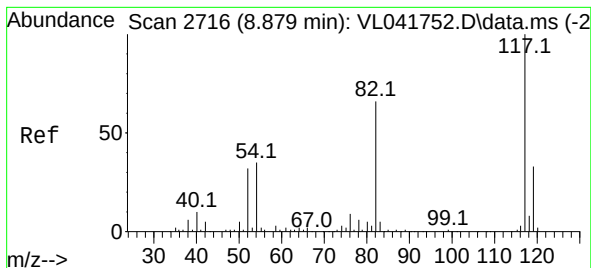
Tgt Ion: 107 Resp: 396

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# 2718

Delta R.T. 0.006 min

Lab File: VL041756.D

Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

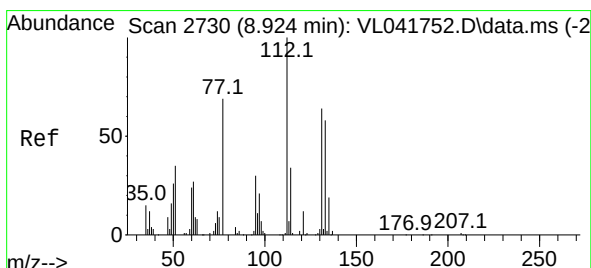
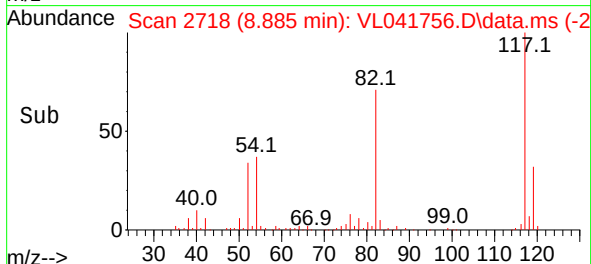
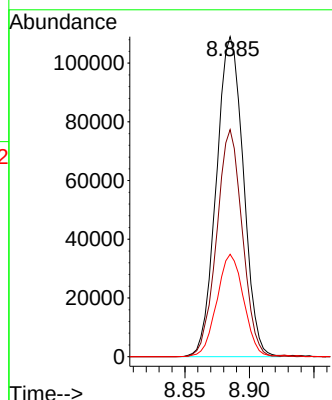
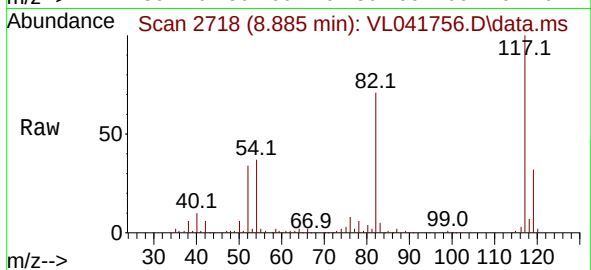
Tgt Ion:117 Resp: 158649

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

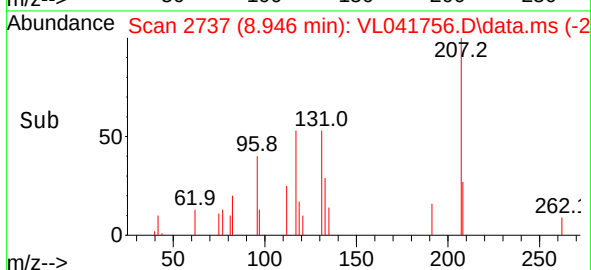
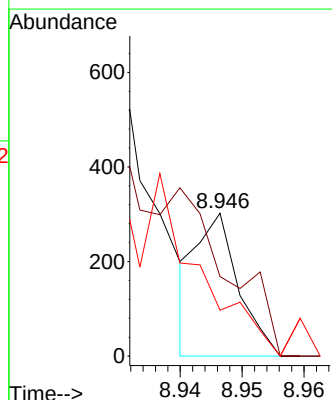
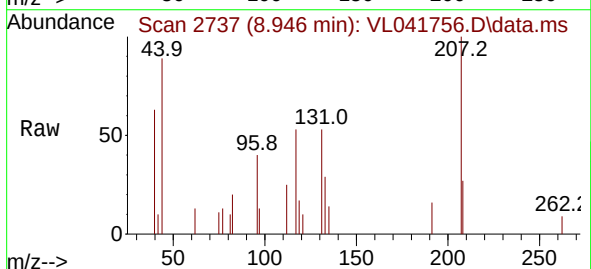
Tgt Ion:131 Resp: 142

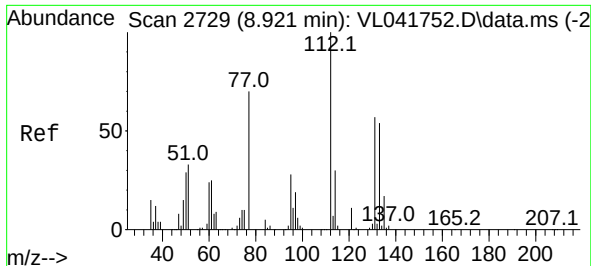
Ion Ratio Lower Upper

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

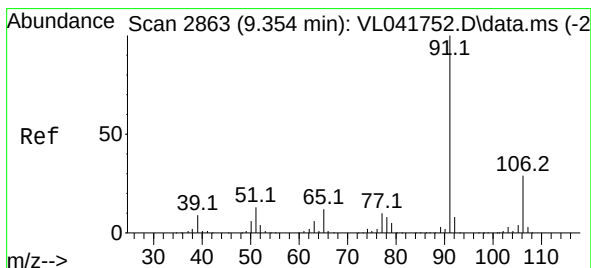
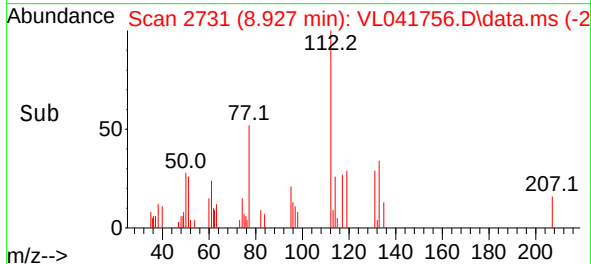
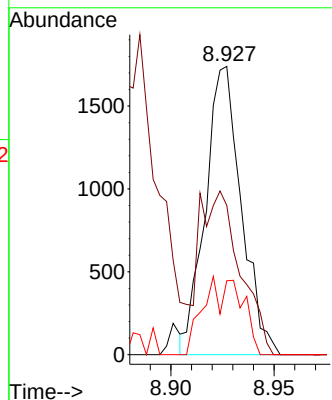
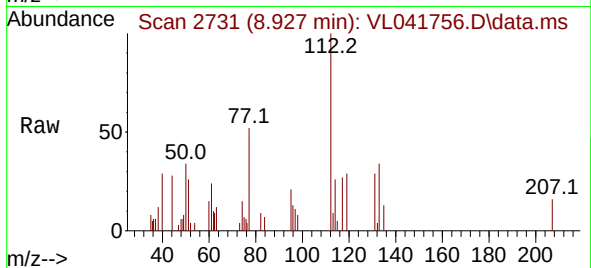
Tgt Ion:112 Resp: 2102

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

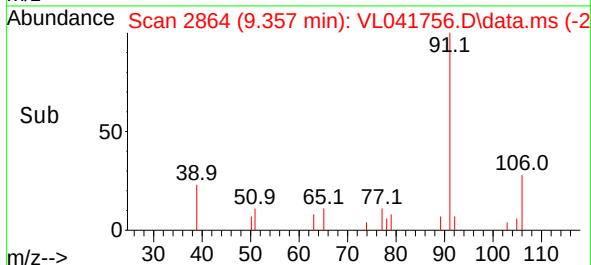
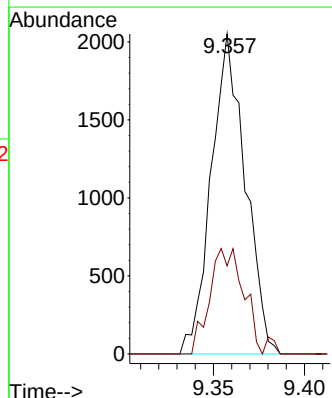
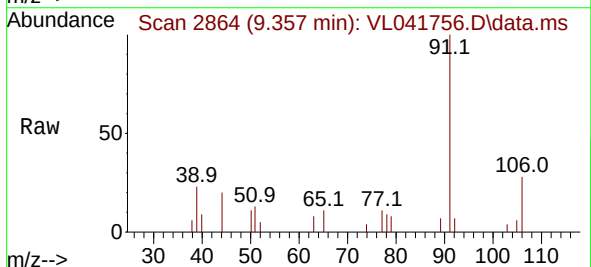
Acq: 16 Dec 2024 15:37

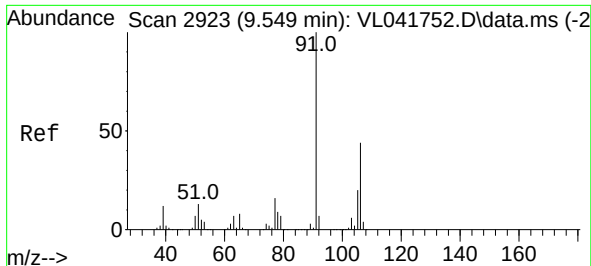
Tgt Ion: 91 Resp: 2667

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 :

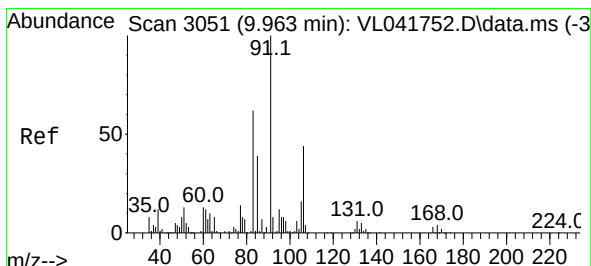
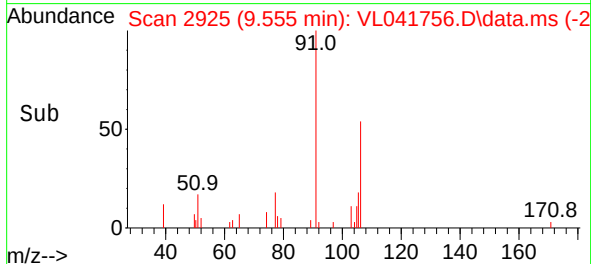
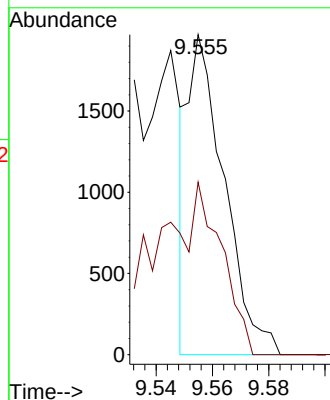
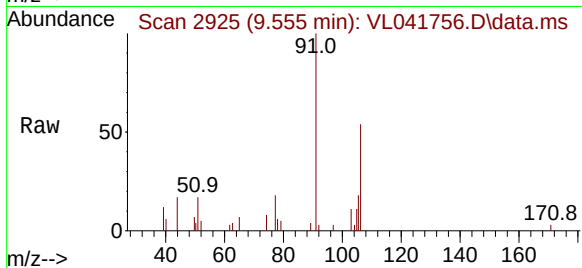
VSTDIC0.1

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

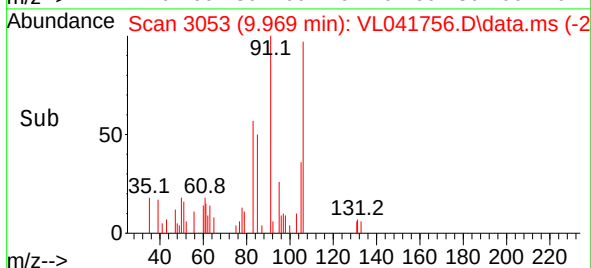
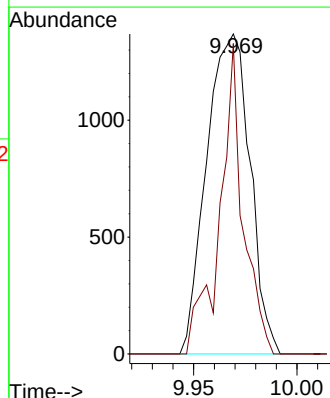
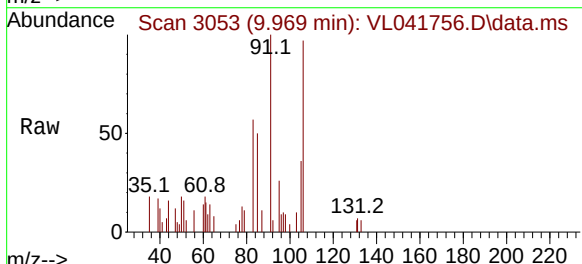
Acq: 16 Dec 2024 15:37

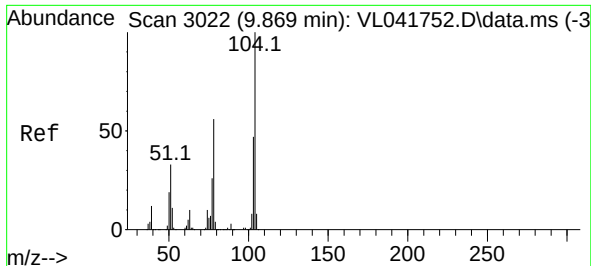
Tgt Ion: 91 Resp: 1998

Ion Ratio Lower Upper

91 100

106 52.4 21.1 63.4

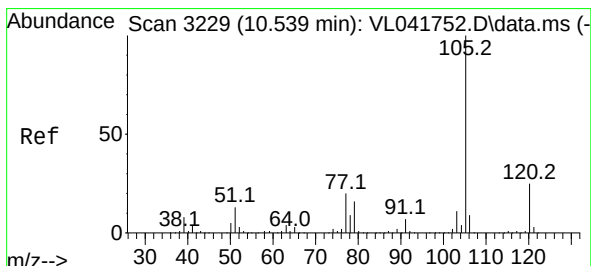
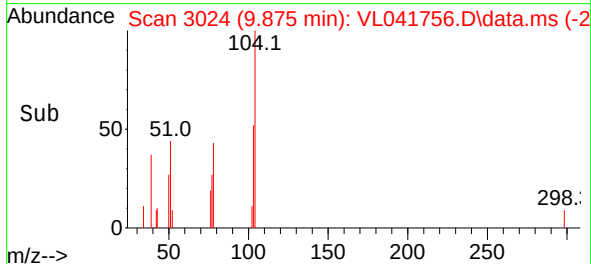
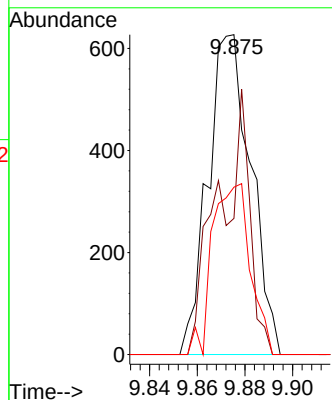
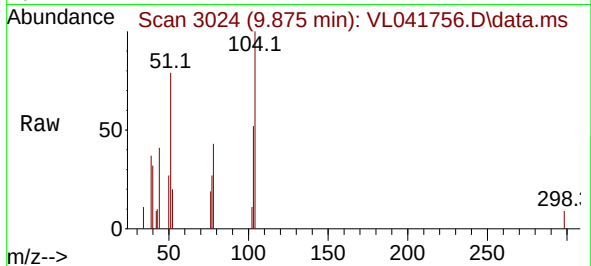




#61
Styrene
Concen: 0.079 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

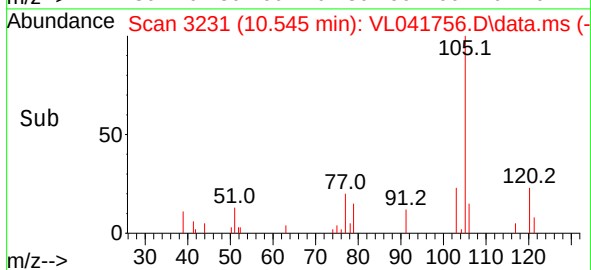
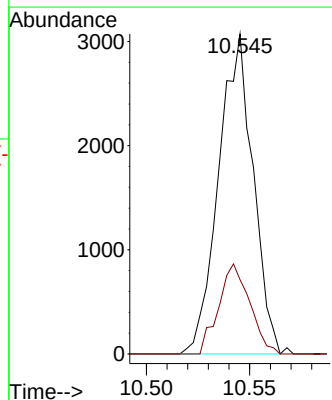
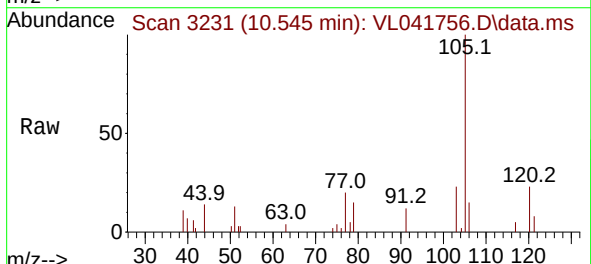
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

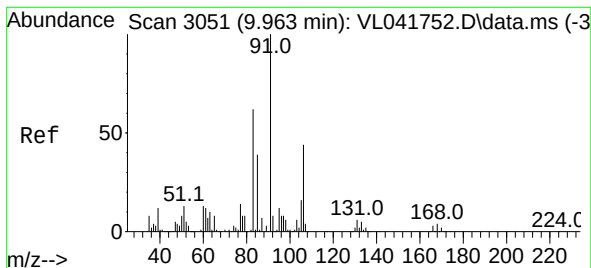
Tgt Ion:104	Resp:	785	
Ion	Ratio	Lower	Upper
104	100		
78	59.5	43.8	65.6
103	47.1	37.8	56.6



#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

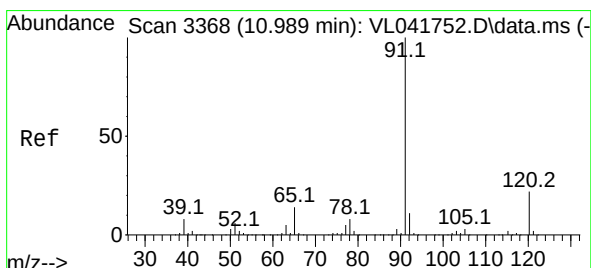
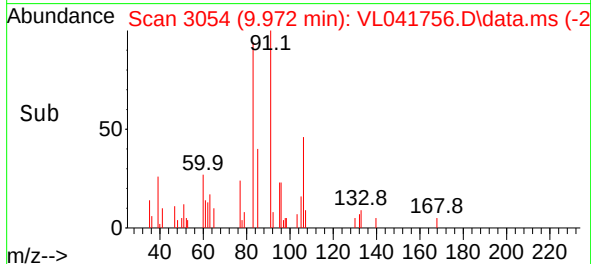
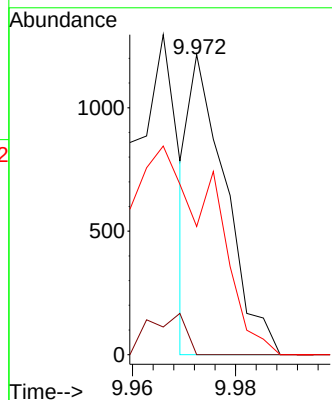
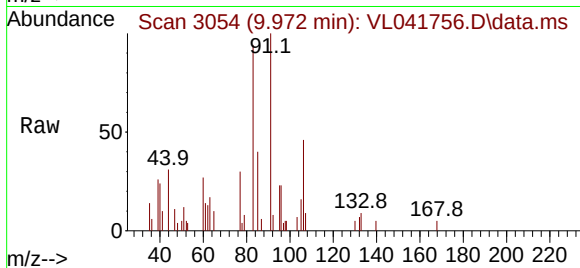
Tgt Ion: 83 Resp: 592

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

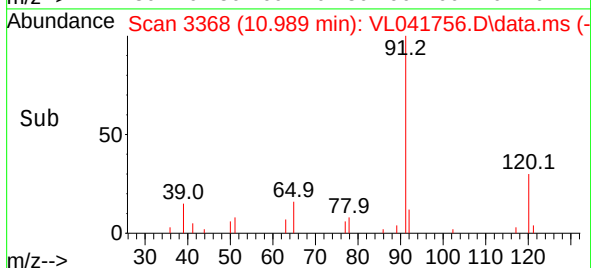
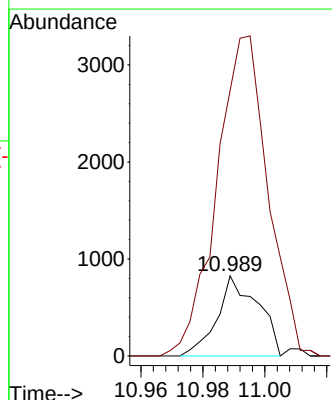
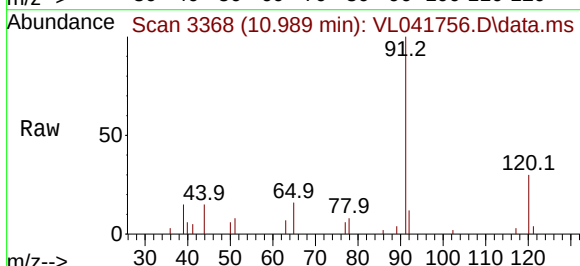
Acq: 16 Dec 2024 15:37

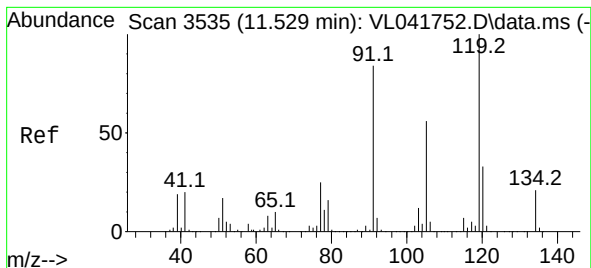
Tgt Ion:120 Resp: 754

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

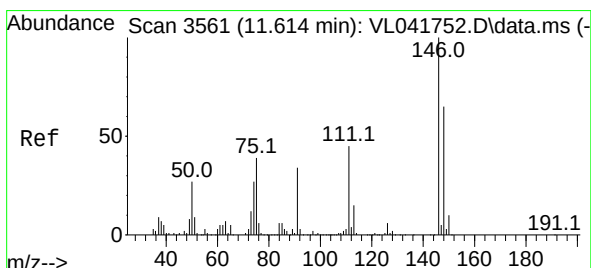
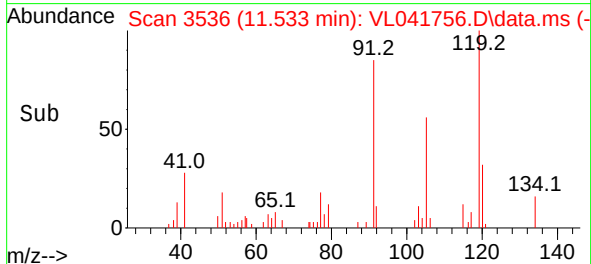
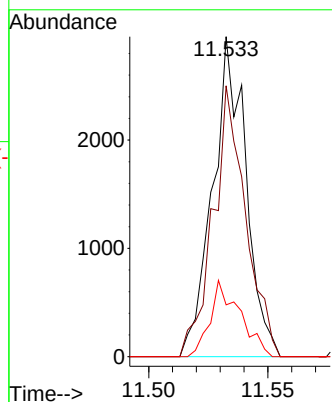
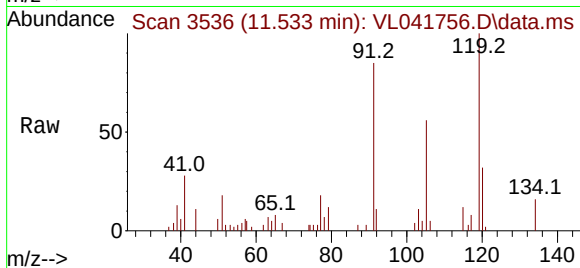
Tgt Ion:119 Resp: 2861

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

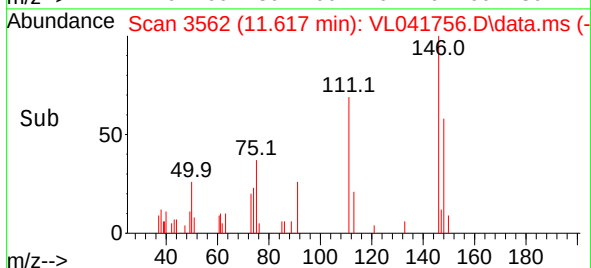
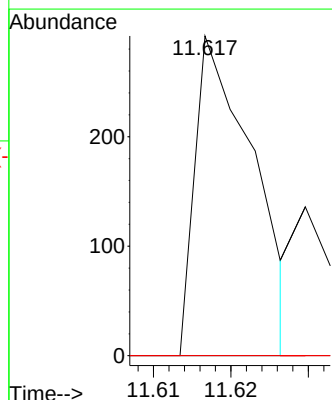
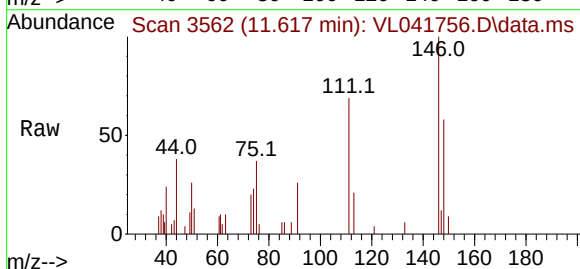
Tgt Ion: 91 Resp: 154

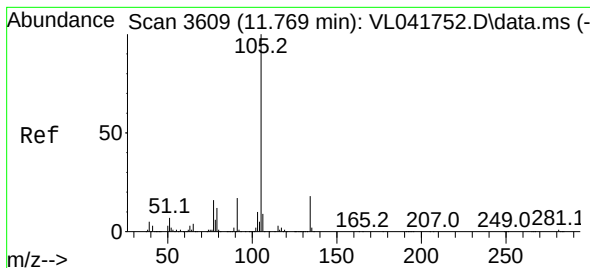
Ion Ratio Lower Upper

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 :

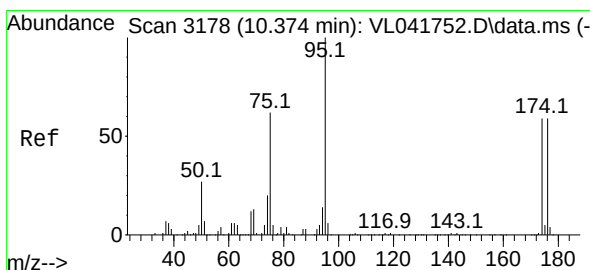
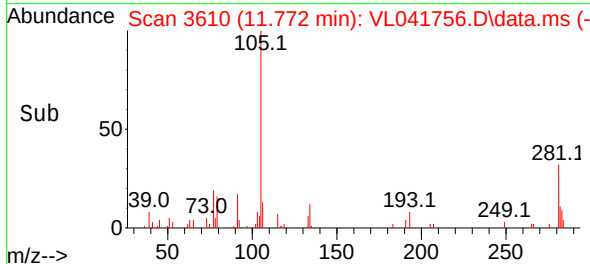
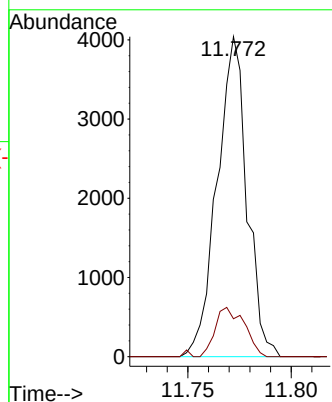
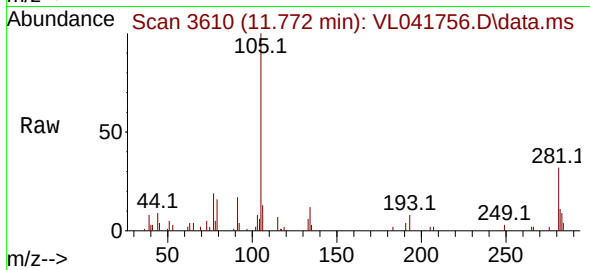
VSTDIC0.1

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

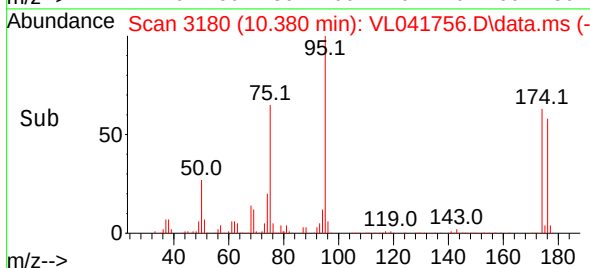
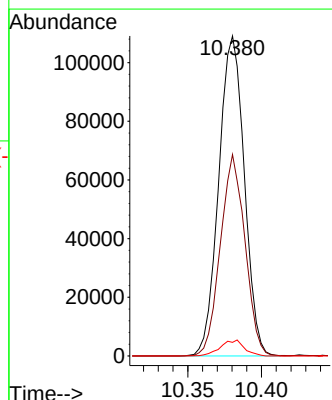
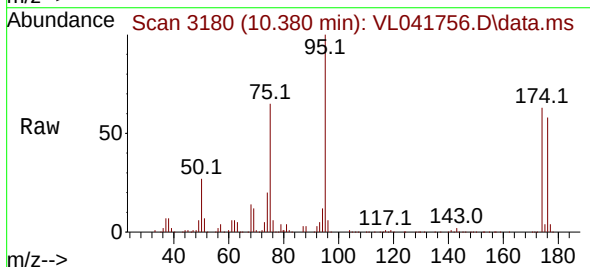
Tgt Ion: 95 Resp: 131540

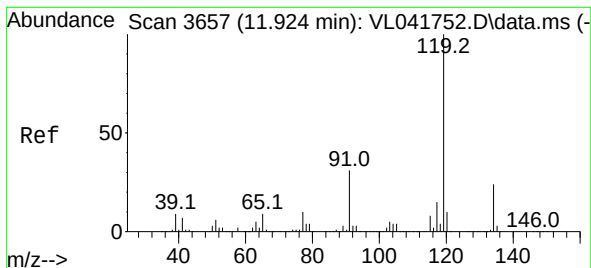
Ion Ratio Lower Upper

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_L

ClientSampleId :

VSTDIC0.1

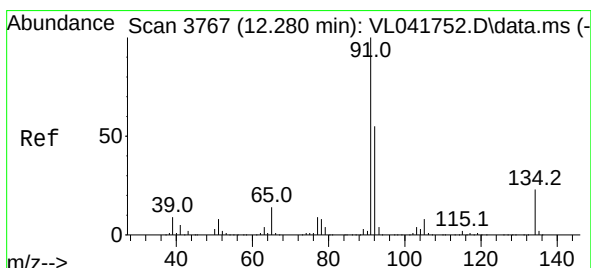
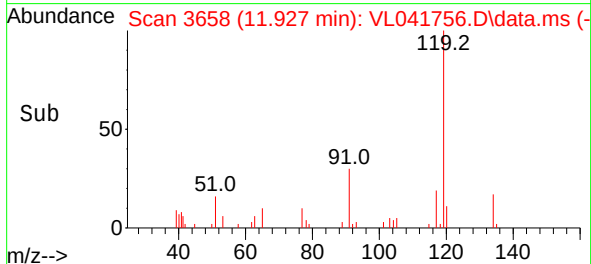
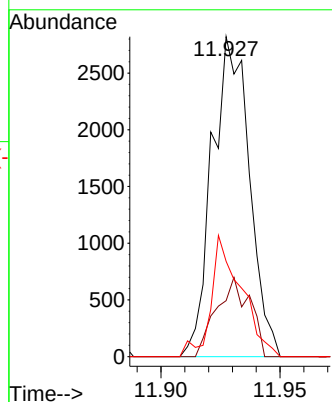
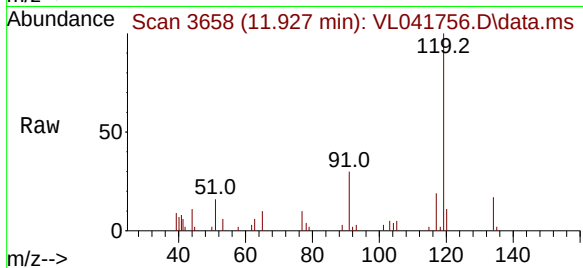
Tgt Ion:119 Resp: 3070

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

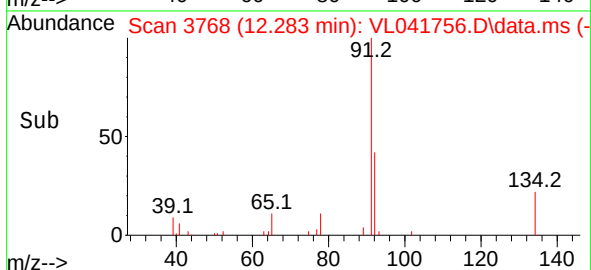
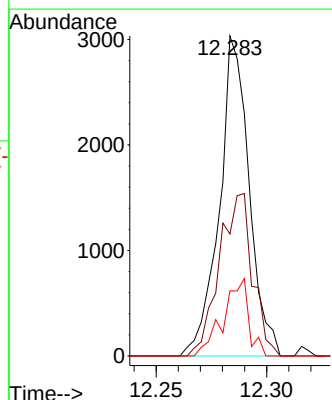
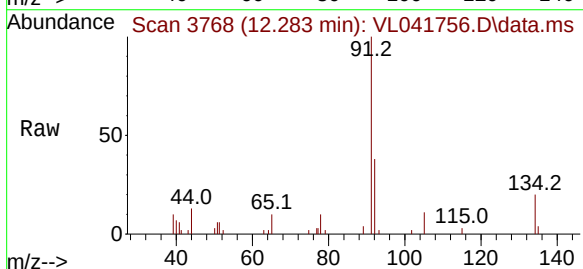
Tgt Ion: 91 Resp: 2829

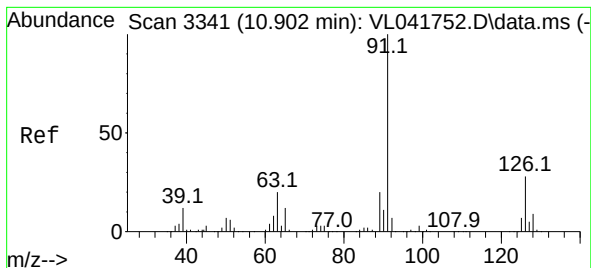
Ion Ratio Lower Upper

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 :

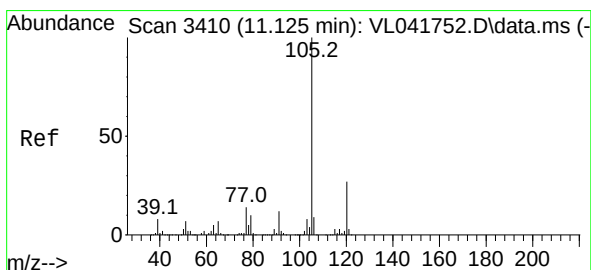
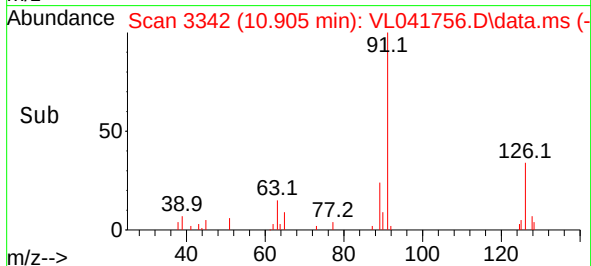
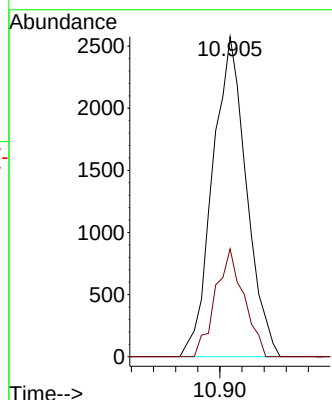
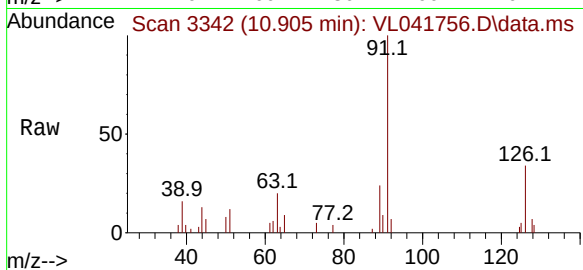
VSTDIC0.1

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

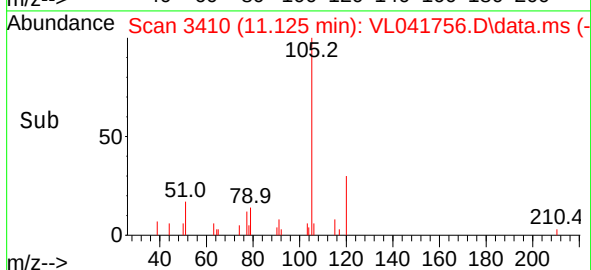
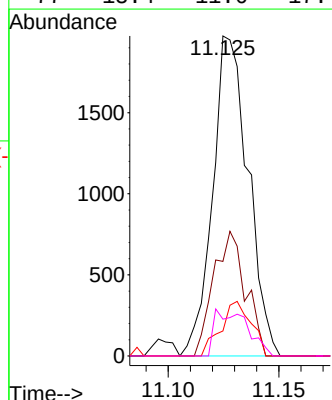
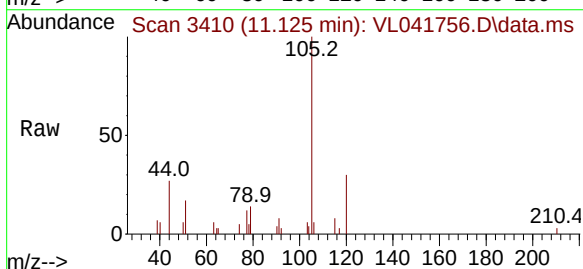
Ion Ratio Lower Upper

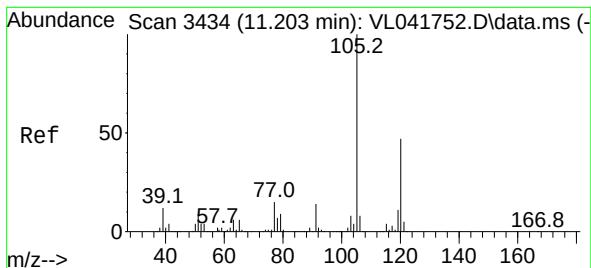
105 100

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 :

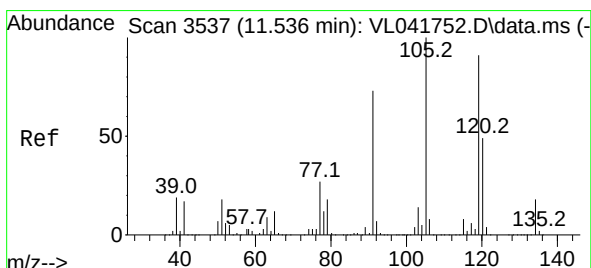
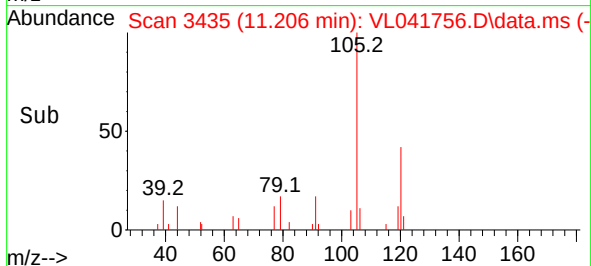
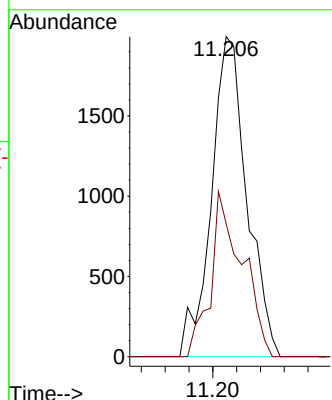
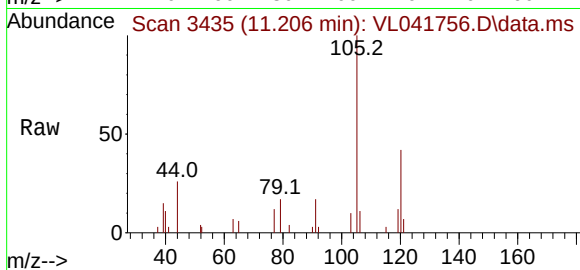
VSTDIC0.1

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

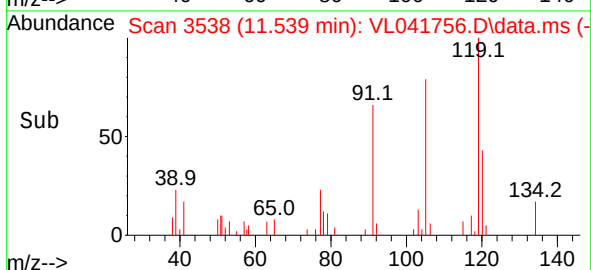
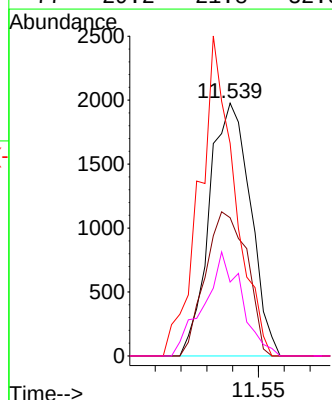
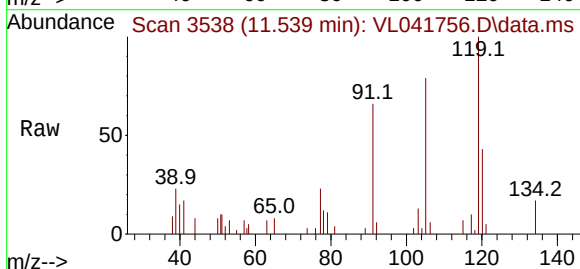
Ion Ratio Lower Upper

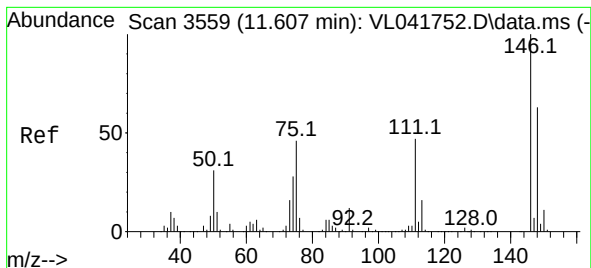
105 100

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

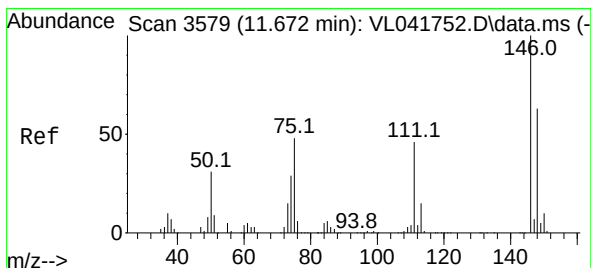
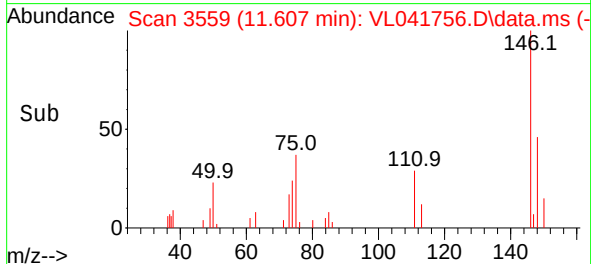
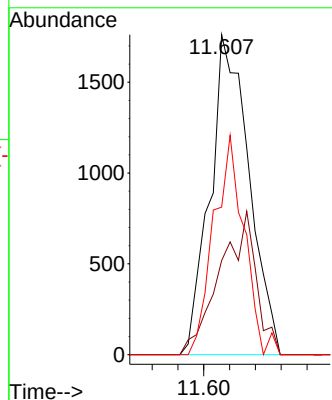
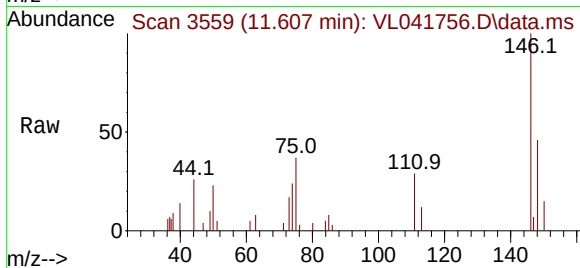
Tgt Ion:146 Resp: 1843

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

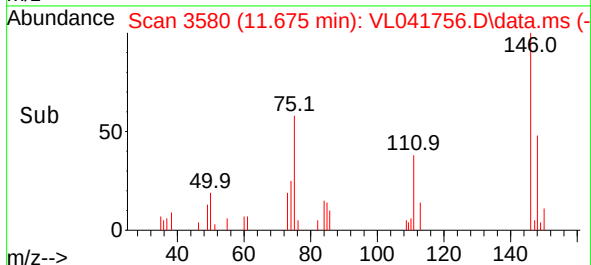
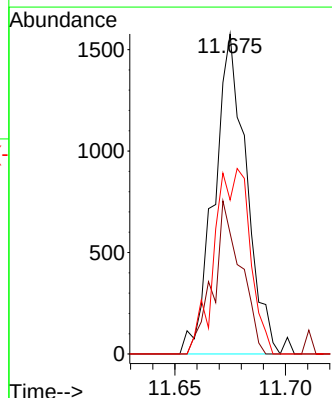
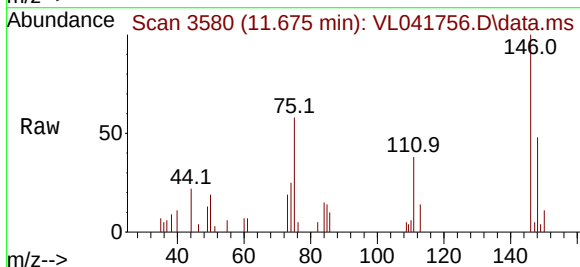
Tgt Ion:146 Resp: 1590

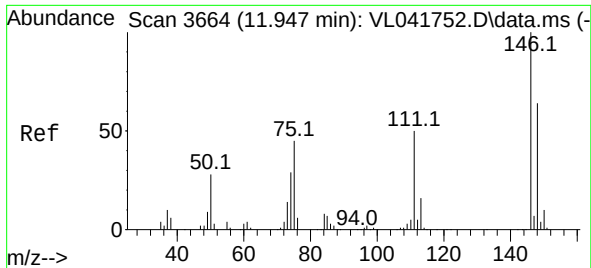
Ion Ratio Lower Upper

146 100

111 41.1 22.7 68.1

148 64.4 31.4 94.0

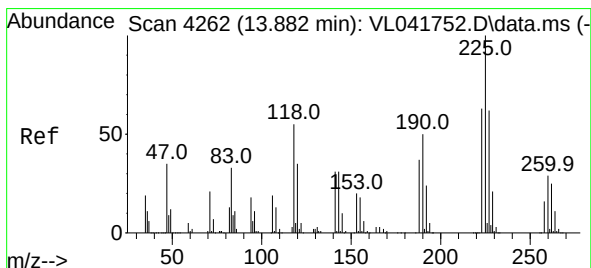
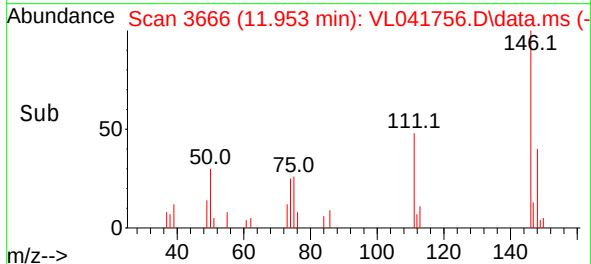
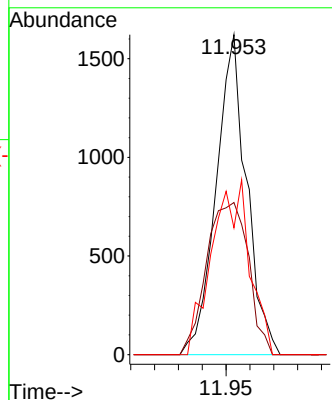
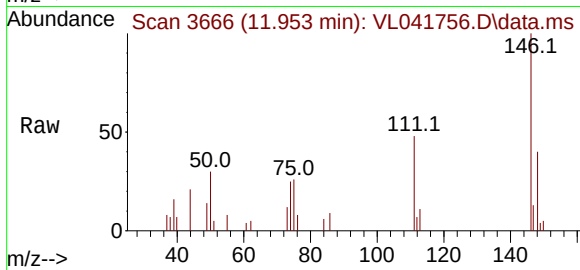




#77
1,2-Dichlorobenzene
Concen: 0.097 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

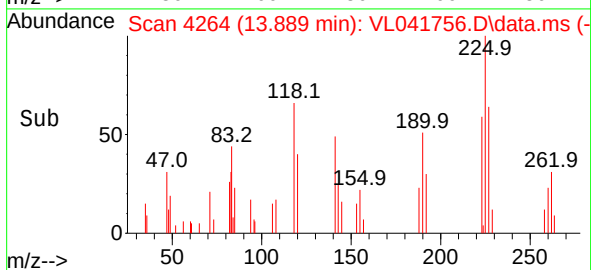
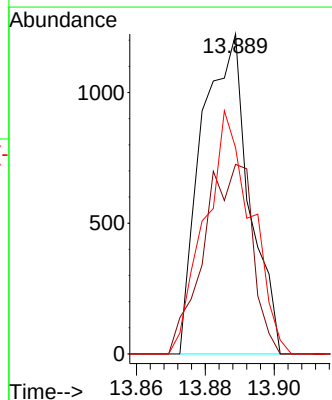
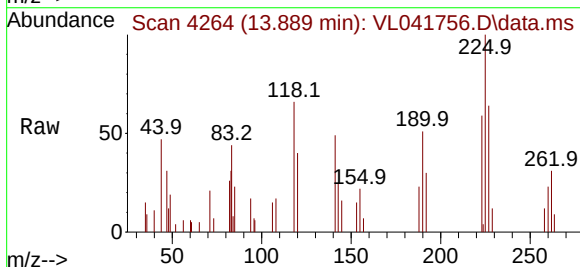
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

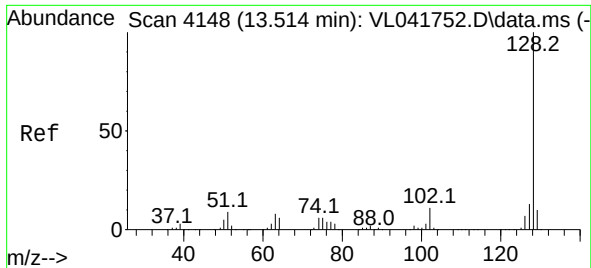
Tgt Ion:146 Resp: 1439
Ion Ratio Lower Upper
146 100
111 65.5 24.8 74.3
148 67.1 31.8 95.4



#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

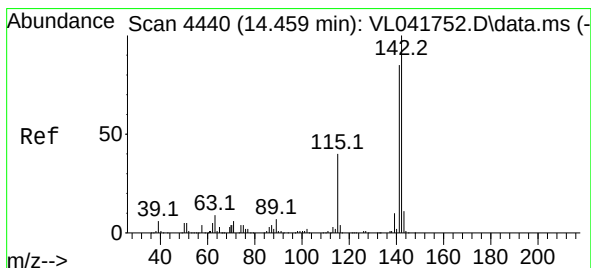
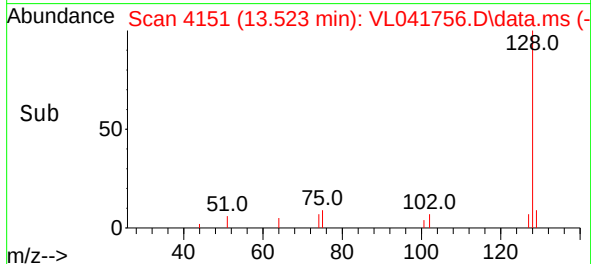
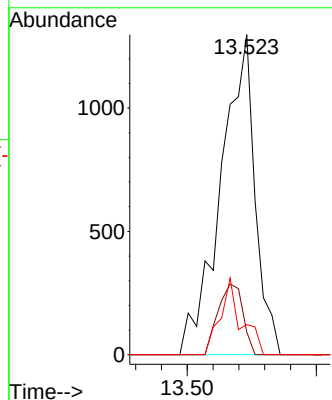
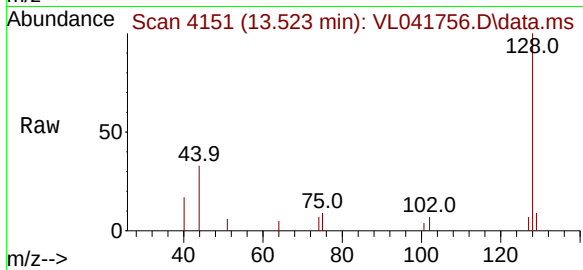




#79
Naphthalene
Concen: 0.071 ppbv
RT: 13.523 min Scan# 4148
Delta R.T. 0.010 min
Lab File: VL041756.D
Acq: 16 Dec 2024 15:37

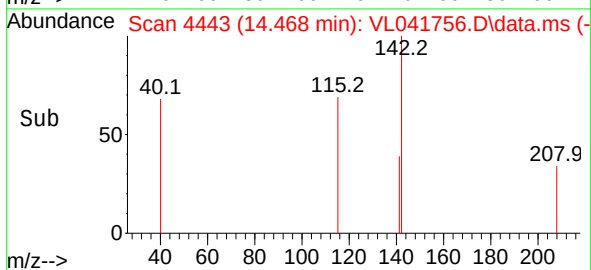
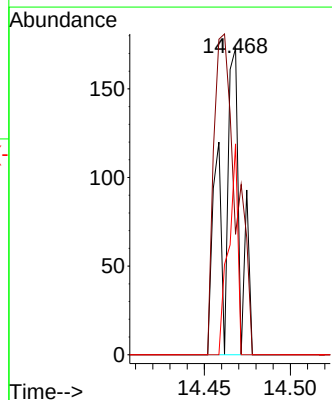
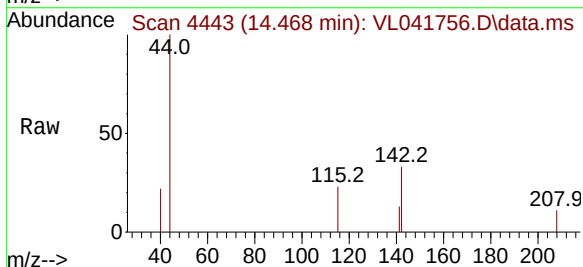
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

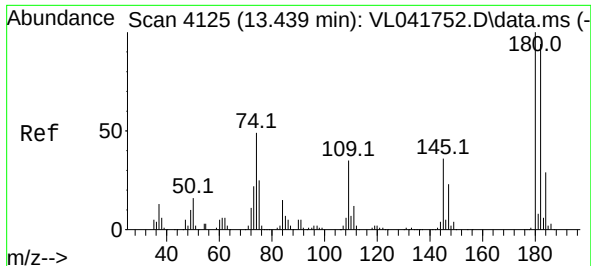
Tgt Ion:128 Resp: 1196
Ion Ratio Lower Upper
128 100
127 7.1 10.7 16.1#
129 9.4 8.2 12.4



#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

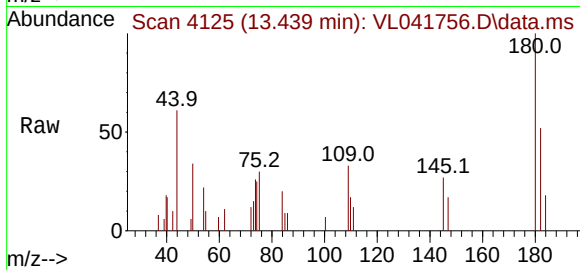
Acq: 16 Dec 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



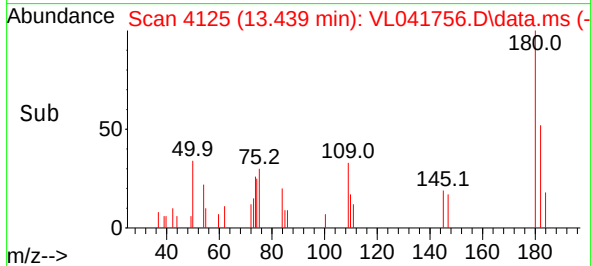
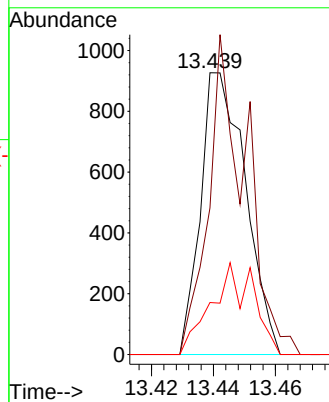
Tgt Ion:180 Resp: 931

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

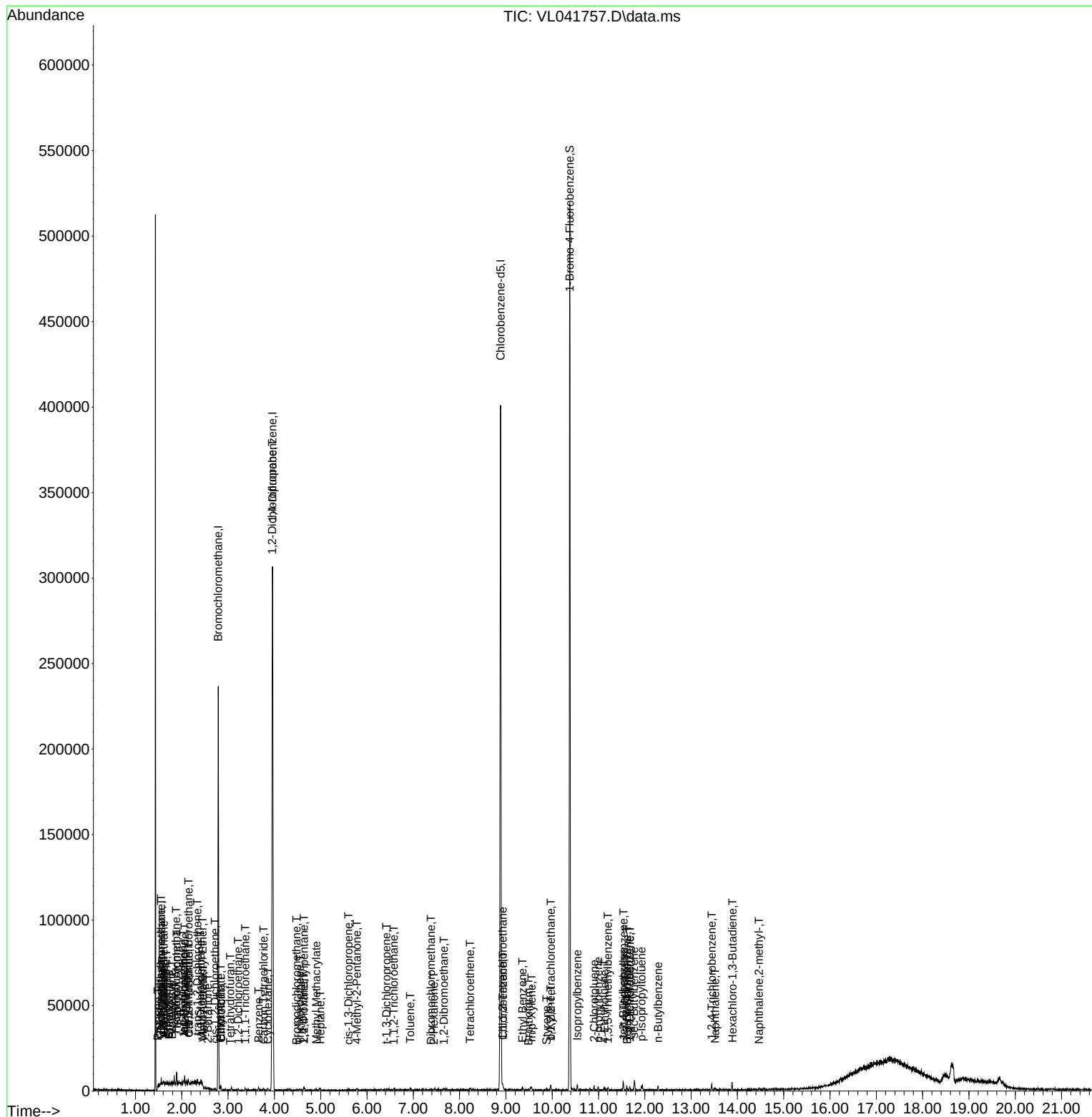
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	67	0.007	ppbv #	67
47) 1,1,2-Trichloroethane	6.580	97	59	0.009	ppbv #	50
48) Dibromochloromethane	7.383	129	117	0.013	ppbv	85
49) Bromoform	9.487	173	118	0.015	ppbv	92
50) 4-Methyl-2-Pentanone	5.777	43	350	0.018	ppbv #	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

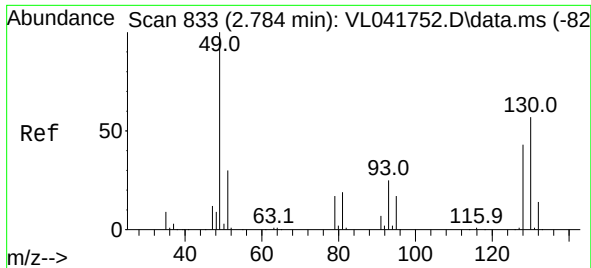
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

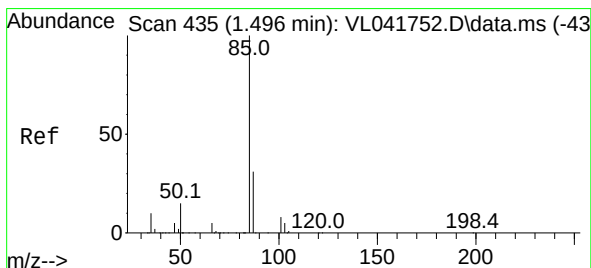
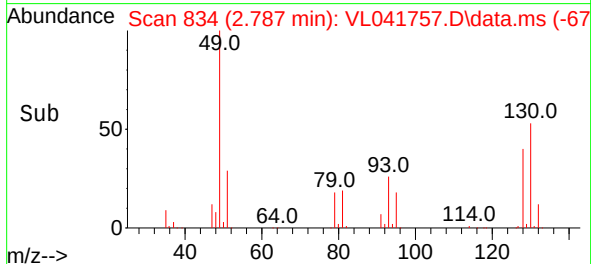
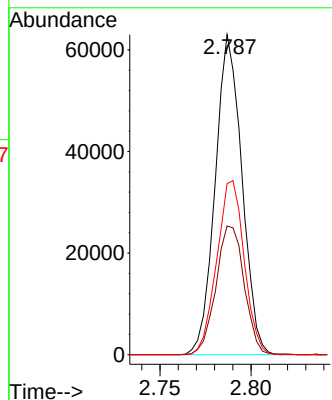
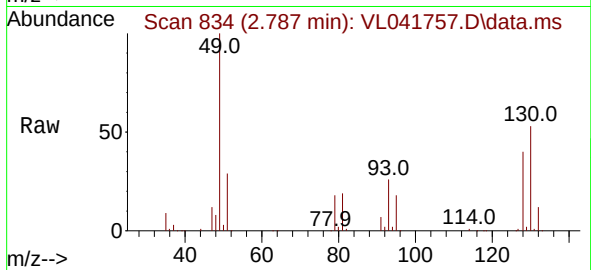




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

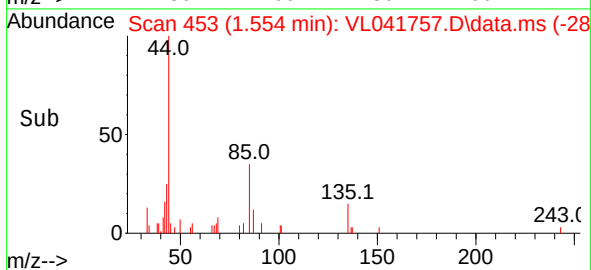
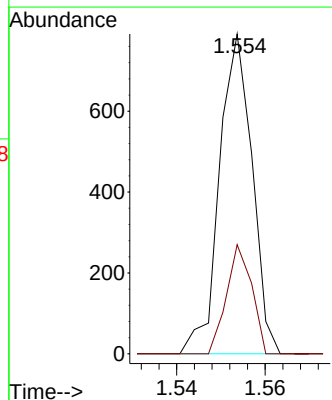
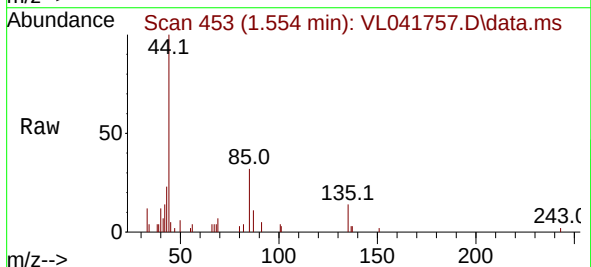
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

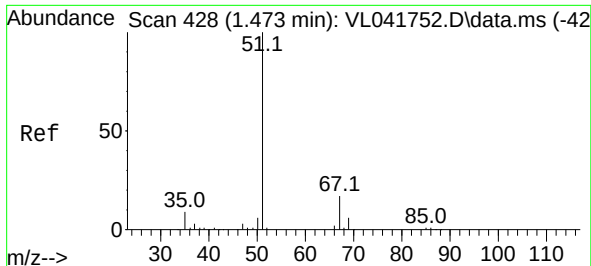
Tgt Ion: 49 Resp: 64158
Ion Ratio Lower Upper
49 100
128 42.4 21.6 64.6
130 56.0 28.3 85.0



#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

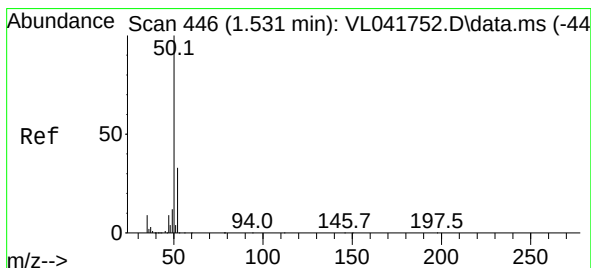
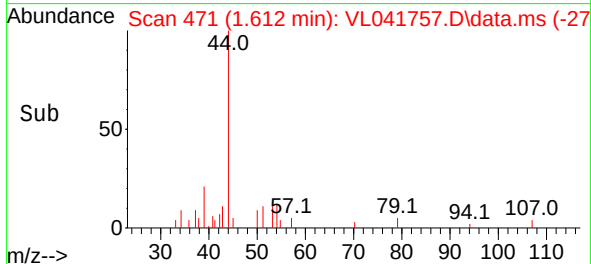
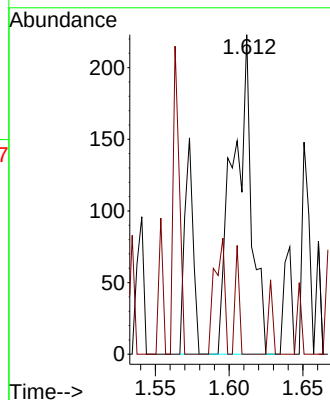
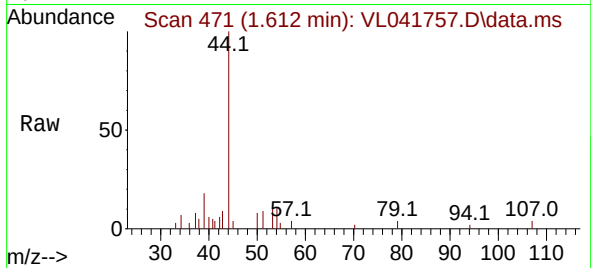




#3
Chlorodifluoromethane
Concen: 0.024 ppbv
RT: 1.612 min Scan# 41
Delta R.T. 0.139 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

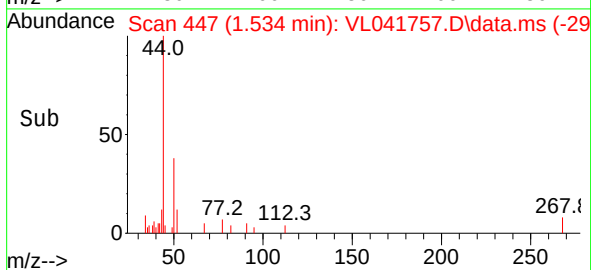
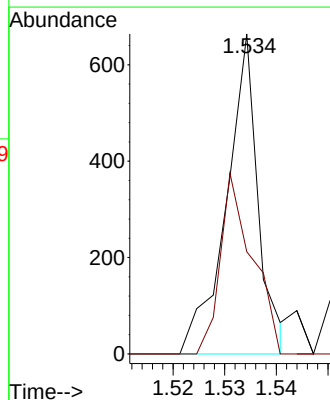
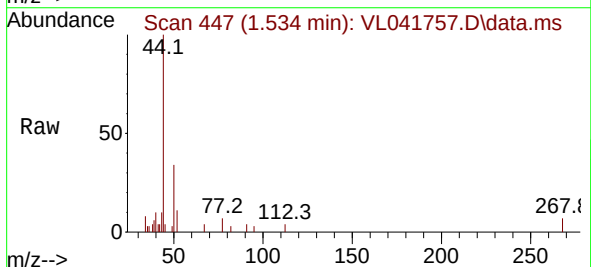
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

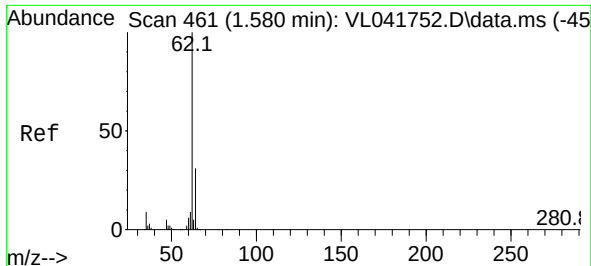
Tgt Ion: 51 Resp: 255
Ion Ratio Lower Upper
51 100
67 20.8 15.0 22.4



#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

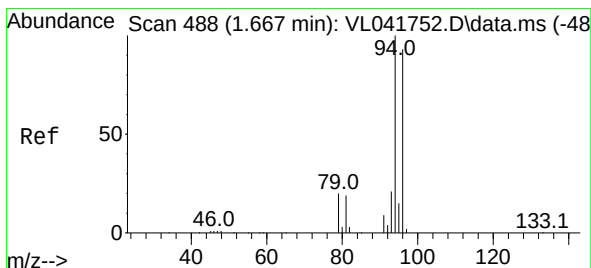
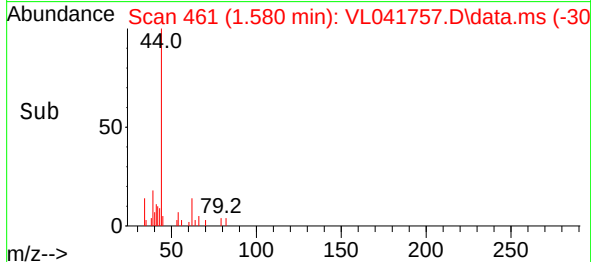
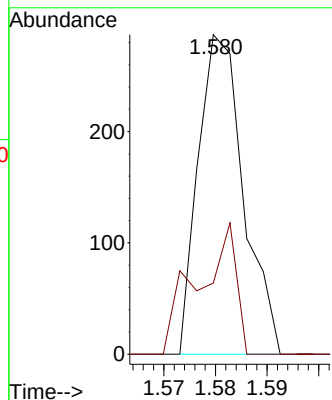
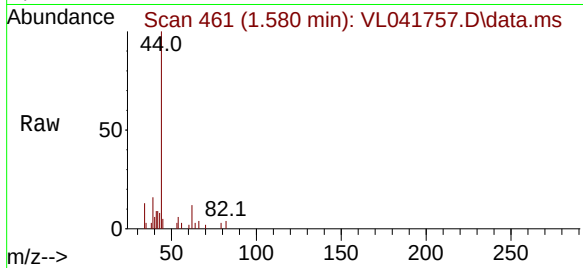




#5
 Vinyl Chloride
 Concen: 0.039 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

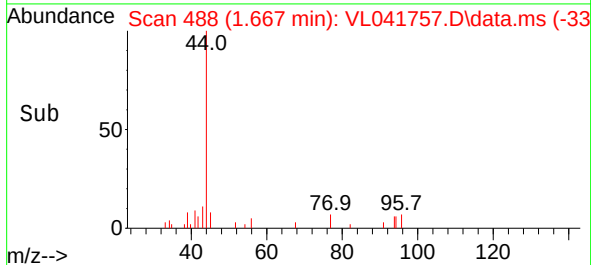
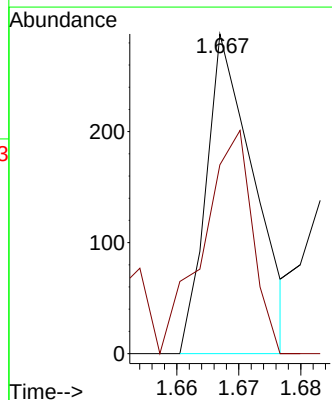
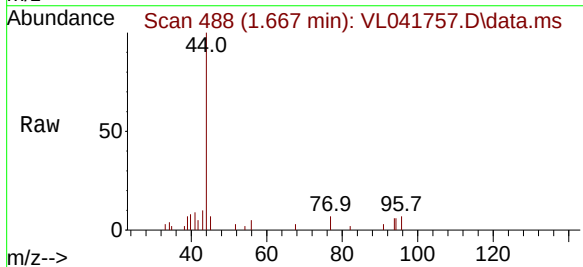
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

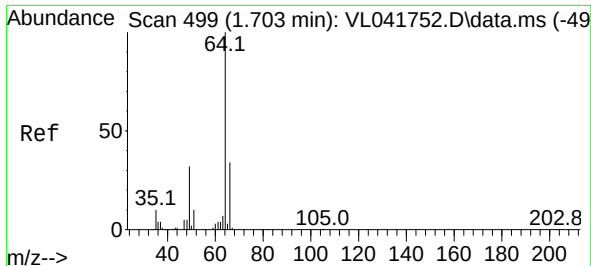
Tgt Ion: 62 Resp: 175
 Ion Ratio Lower Upper
 62 100
 64 22.3 25.1 37.7#



#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#

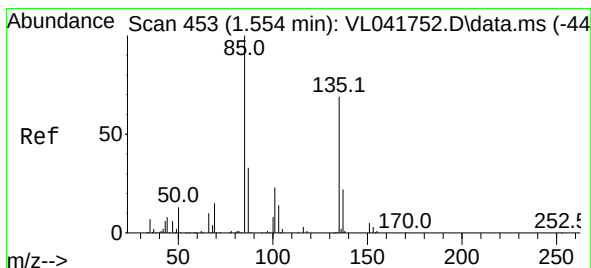
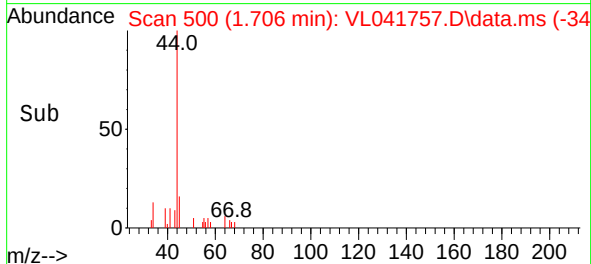
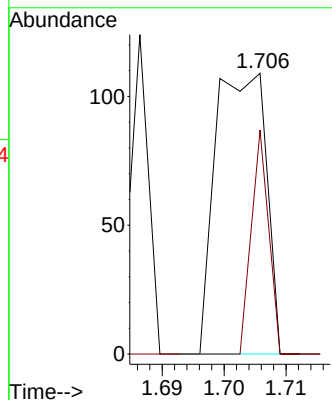
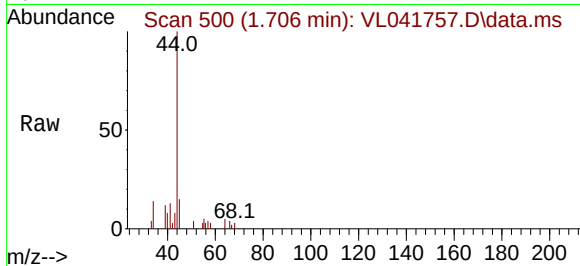




#7
Chloroethane
Concen: 0.035 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

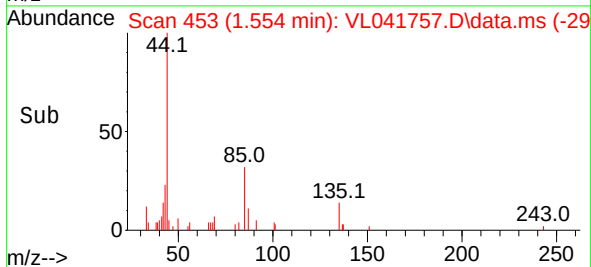
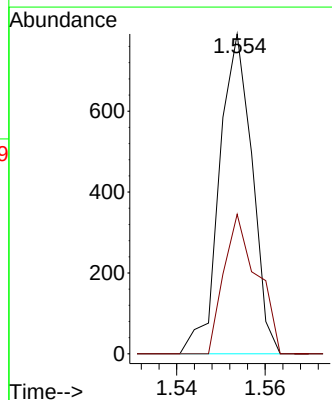
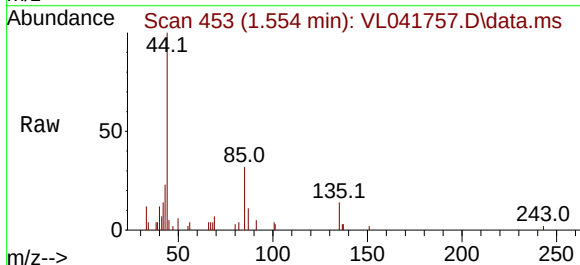
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

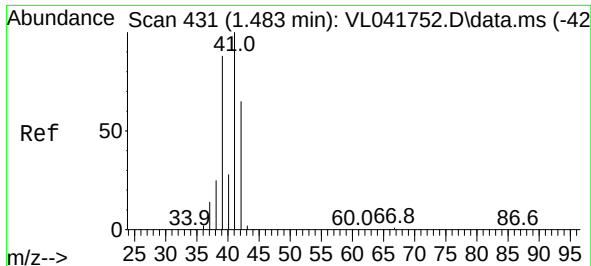
Tgt Ion: 64 Resp: 62
Ion Ratio Lower Upper
64 100
66 127.5 27.5 41.3#



#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 :

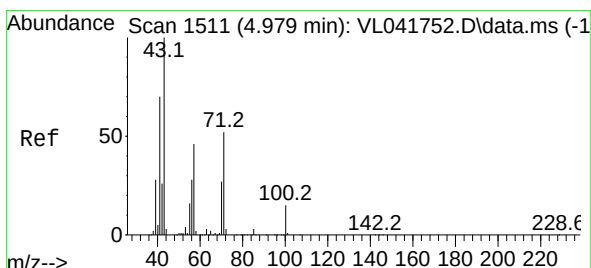
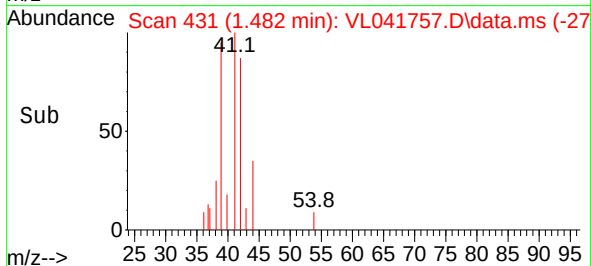
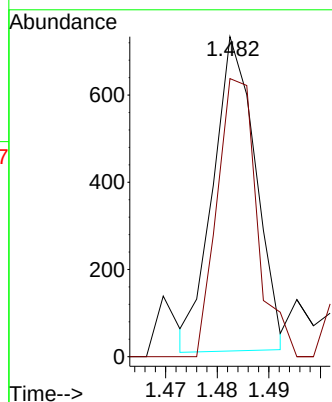
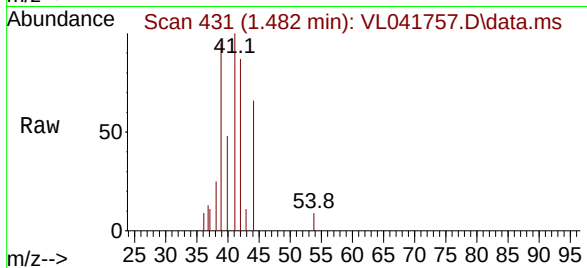
VSTDICC0.03

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

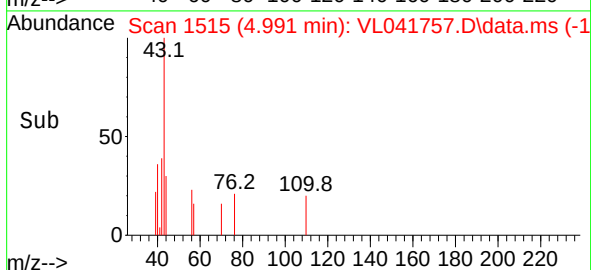
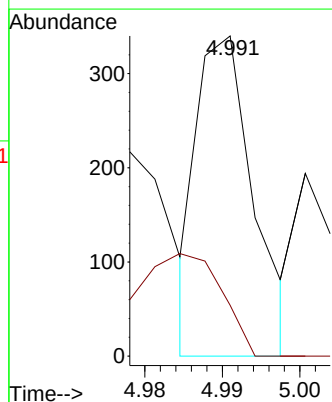
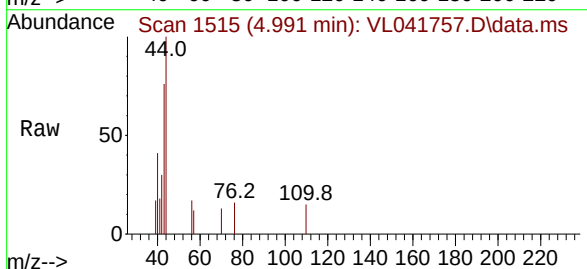
Acq: 16 Dec 2024 16:08

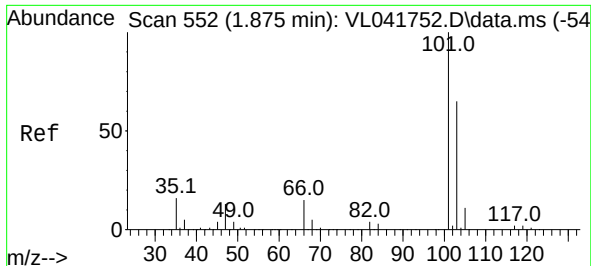
Tgt Ion: 43 Resp: 172

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 :

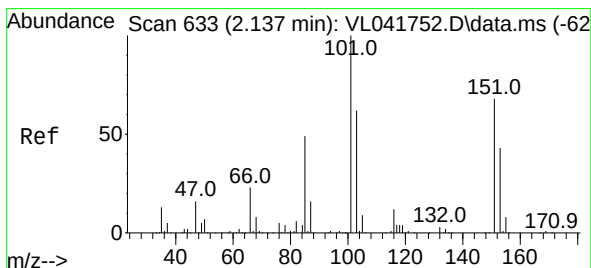
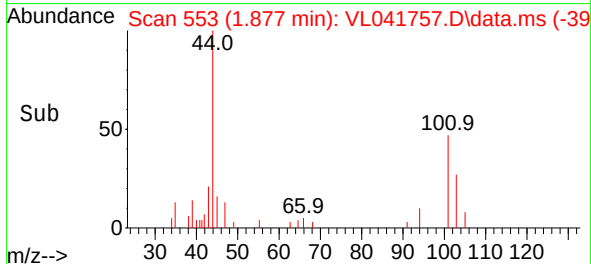
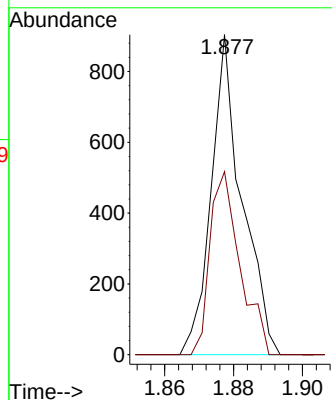
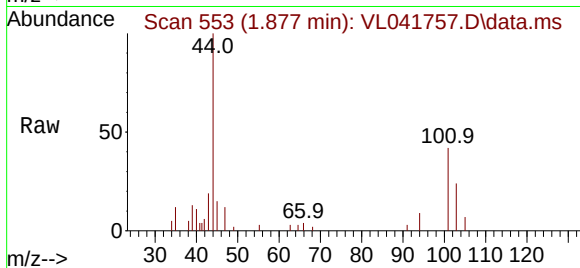
VSTDIC0.03

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

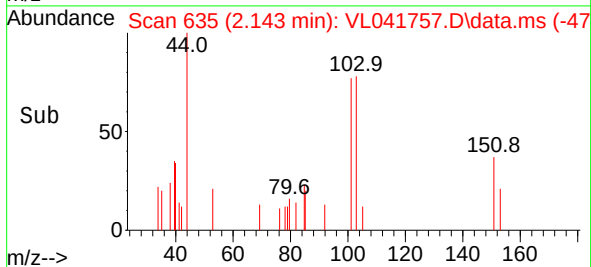
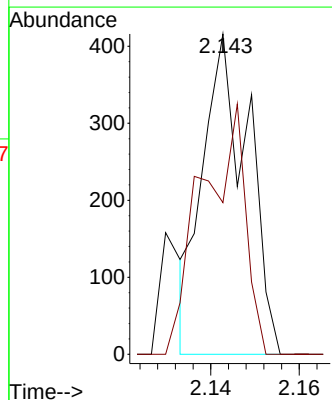
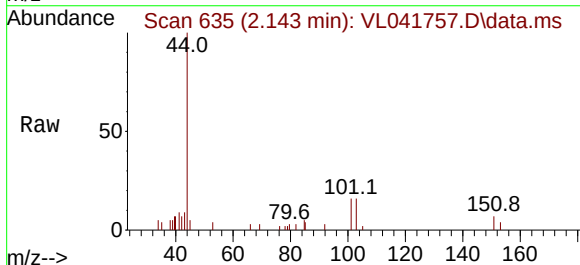
Acq: 16 Dec 2024 16:08

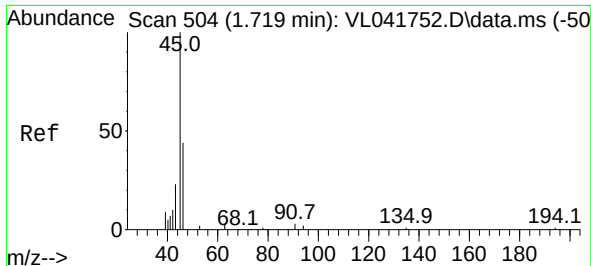
Tgt Ion:101 Resp: 293

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 :

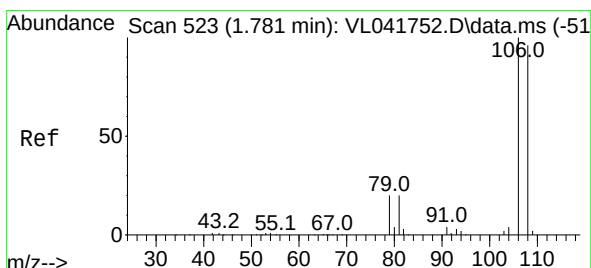
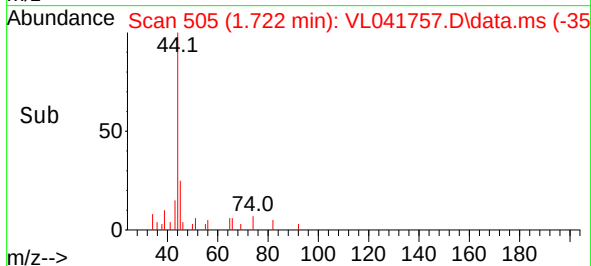
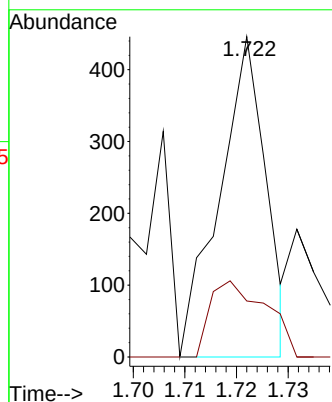
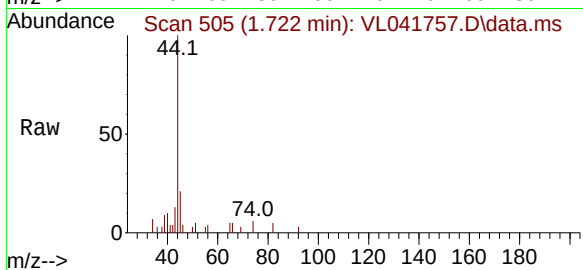
VSTDIC0.03

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

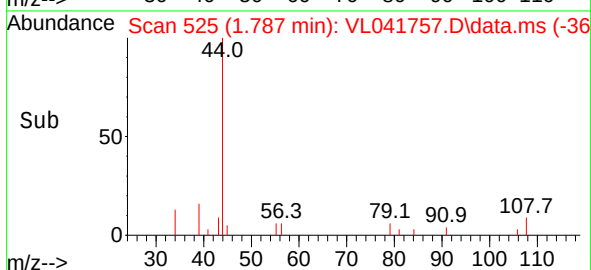
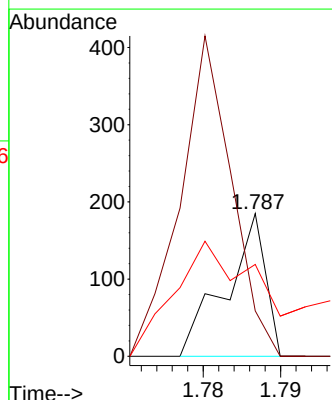
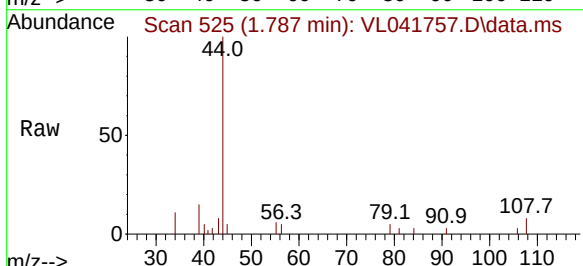
Tgt Ion: 108 Resp: 66

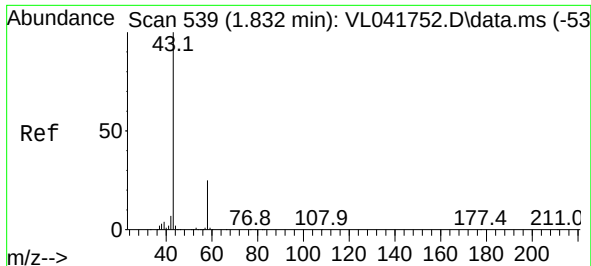
Ion Ratio Lower Upper

108 100

106 290.9 84.1 126.1#

79 374.2 17.4 26.0#

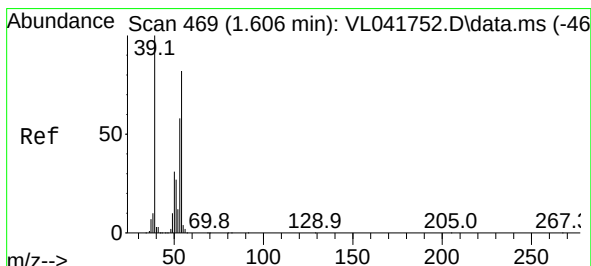
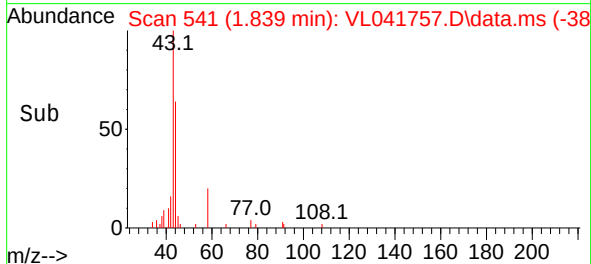
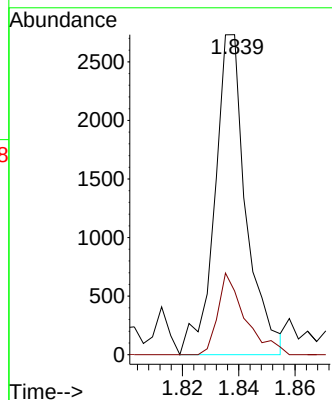
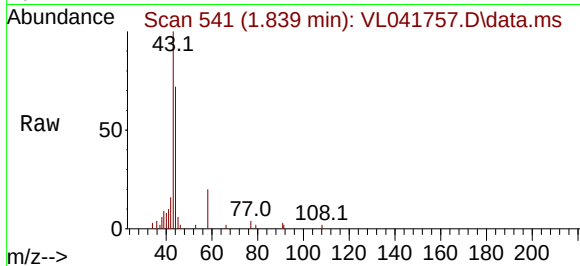




#15
Acetone
Concen: 0.169 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

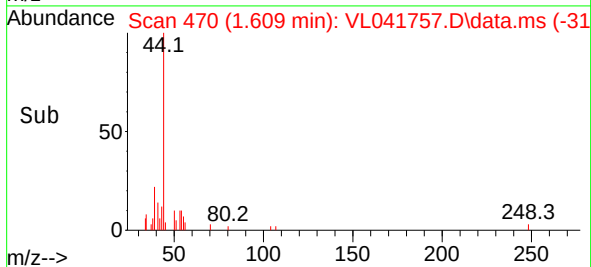
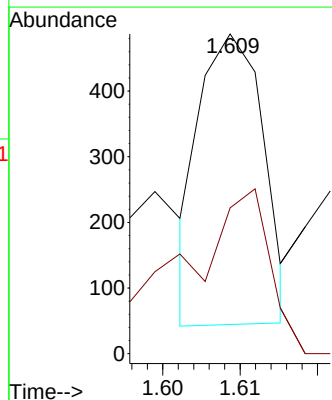
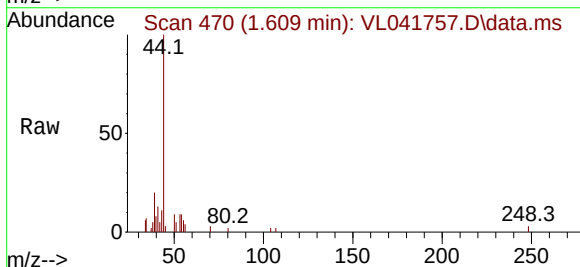
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

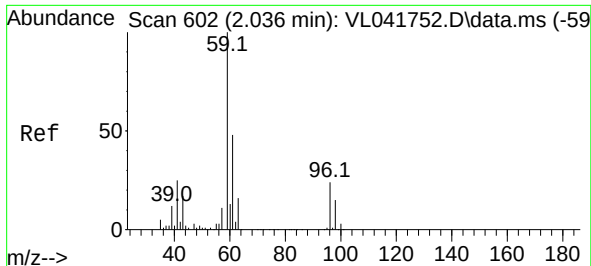
Tgt Ion: 43 Resp: 2113
Ion Ratio Lower Upper
43 100
58 22.1 19.7 29.5



#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#

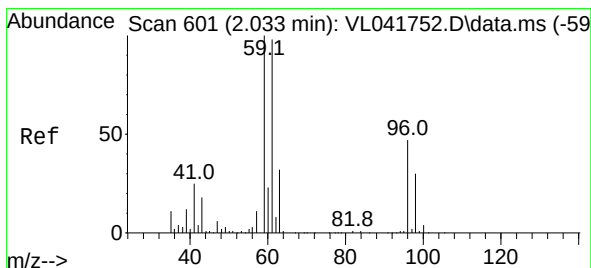
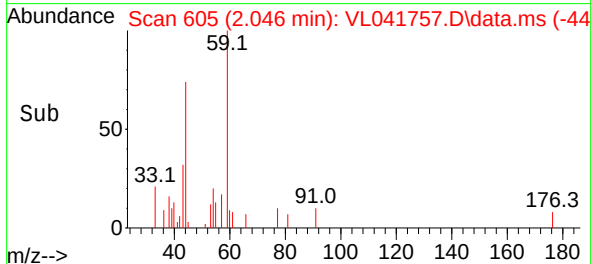
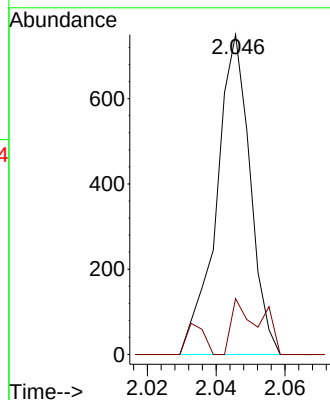
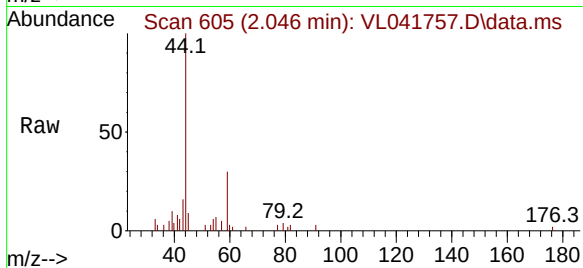




#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

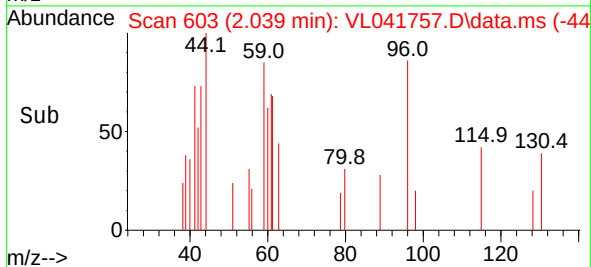
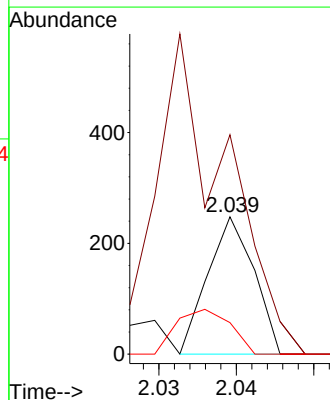
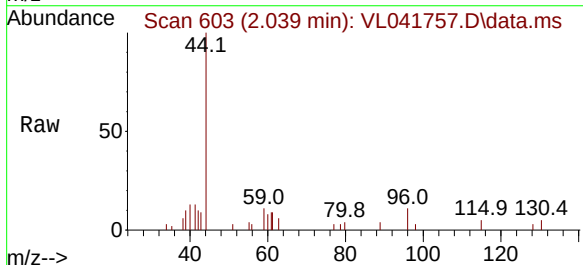
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

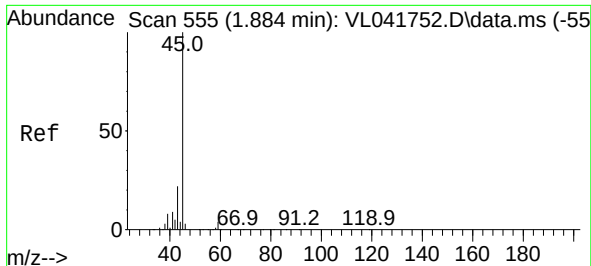
Tgt Ion: 59 Resp: 509
Ion Ratio Lower Upper
59 100
57 19.8 8.6 13.0#



#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 :

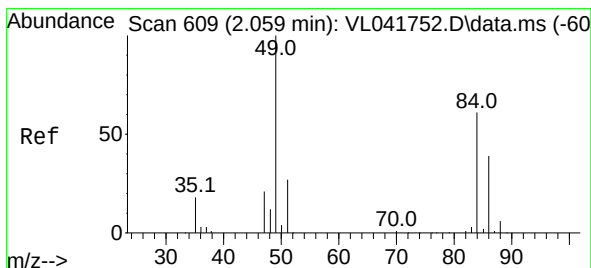
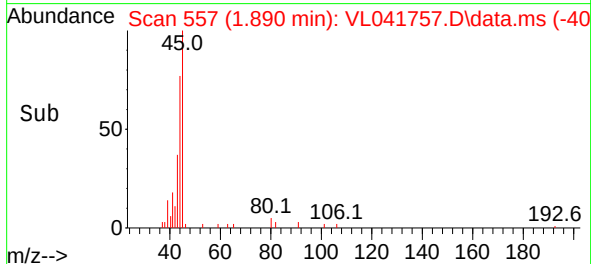
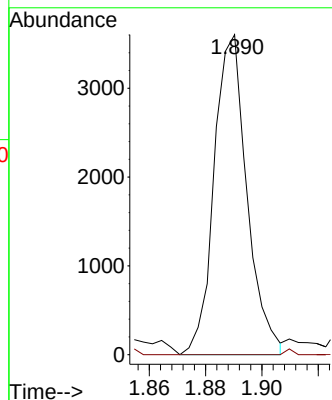
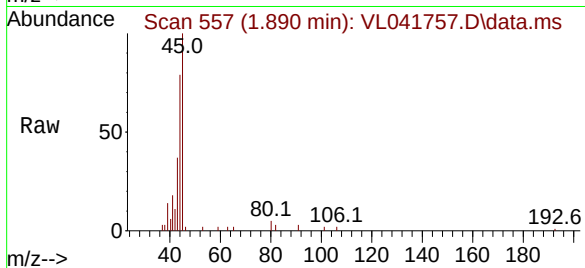
VSTDIC0.03

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

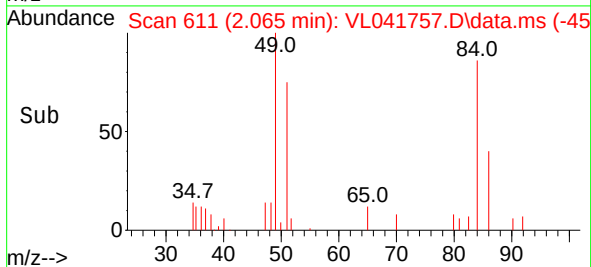
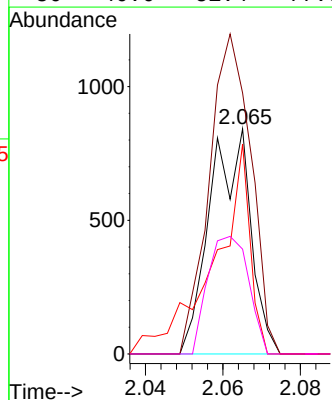
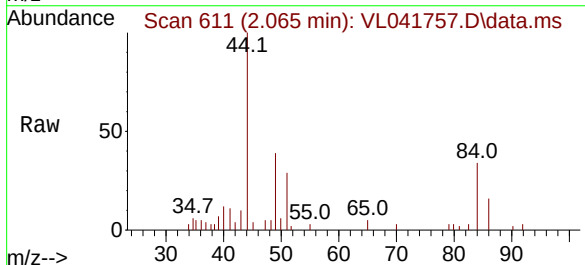
Ion Ratio Lower Upper

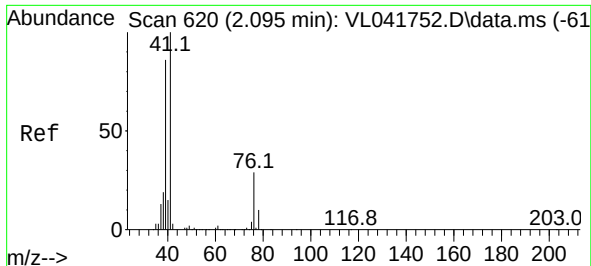
84 100

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

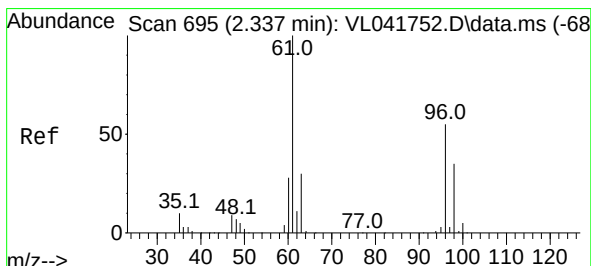
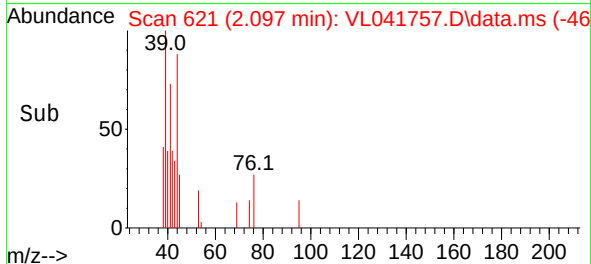
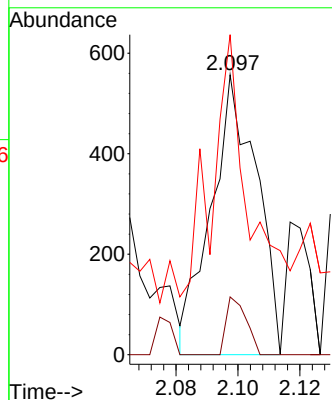
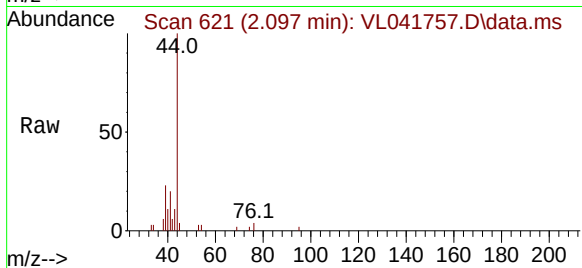
Tgt Ion: 41 Resp: 566

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

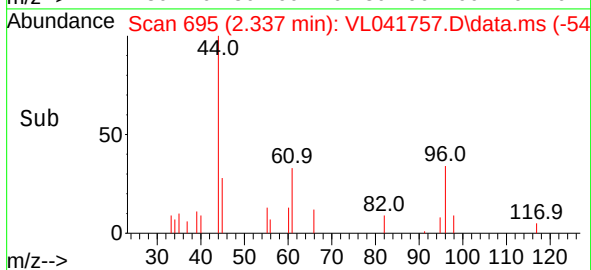
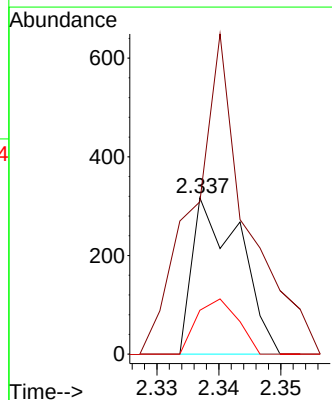
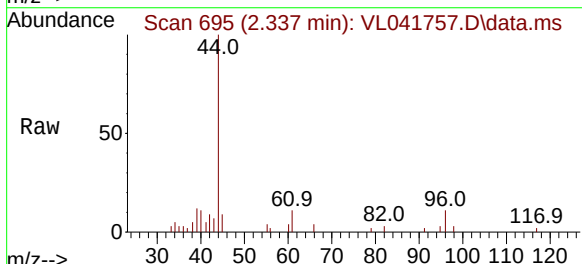
Tgt Ion: 96 Resp: 170

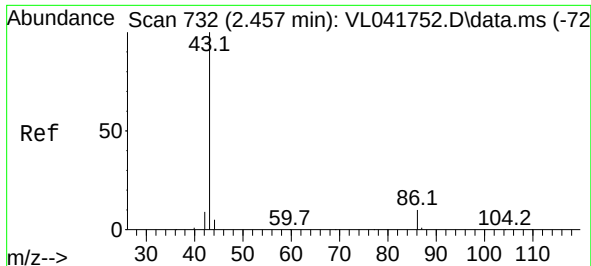
Ion Ratio Lower Upper

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

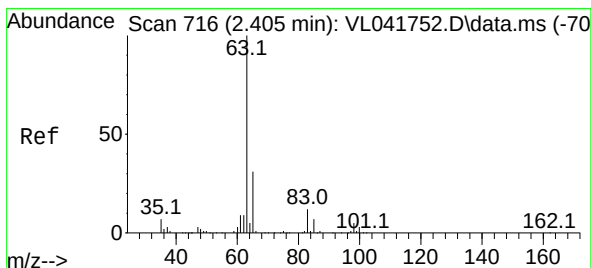
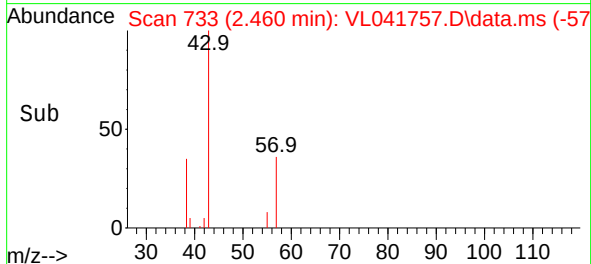
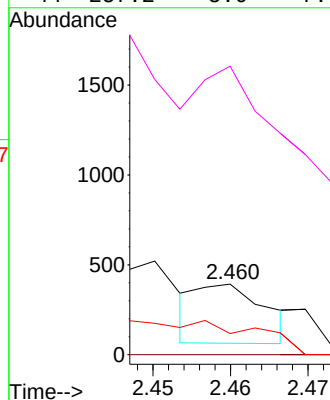
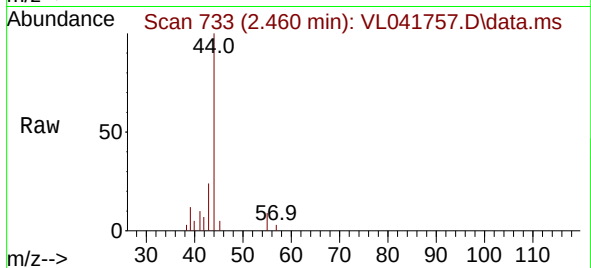
Ion Ratio Lower Upper

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

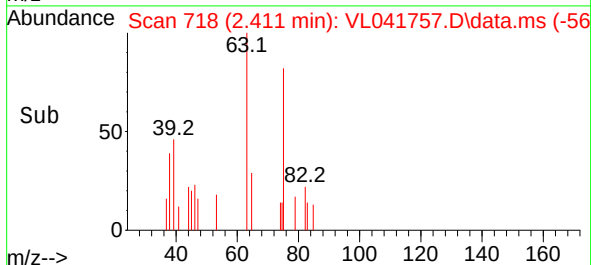
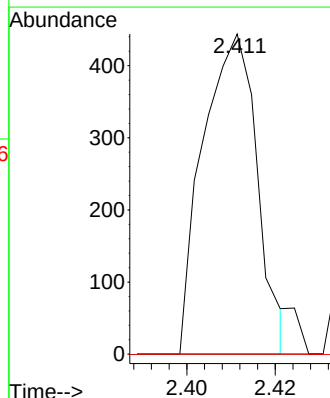
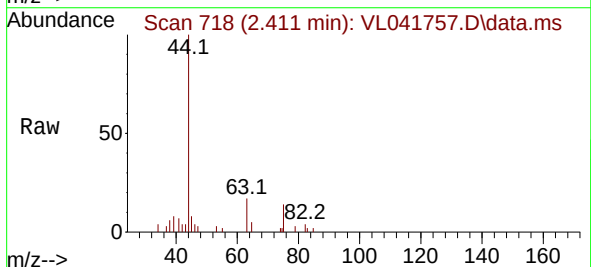
Tgt Ion: 63 Resp: 378

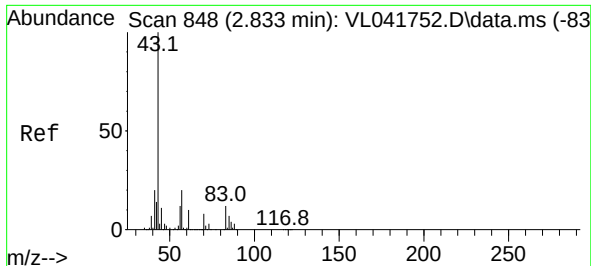
Ion Ratio Lower Upper

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

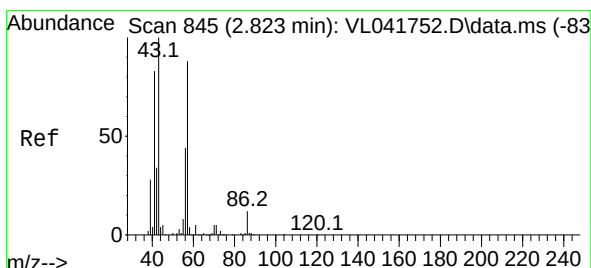
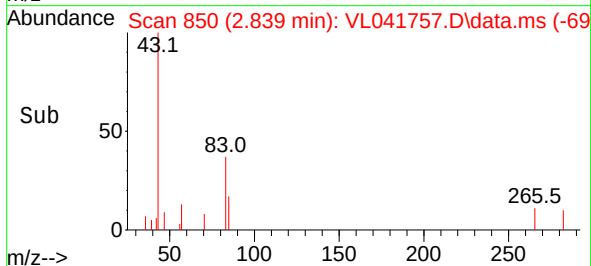
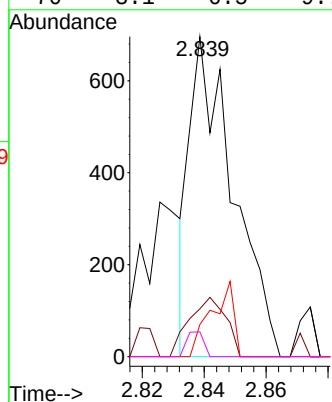
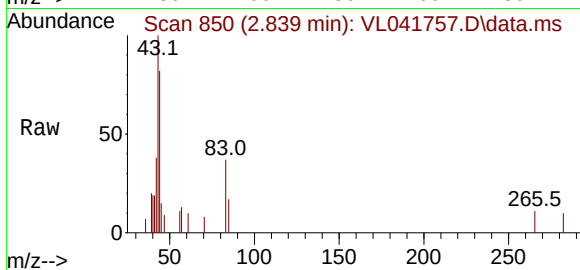
Ion Ratio Lower Upper

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

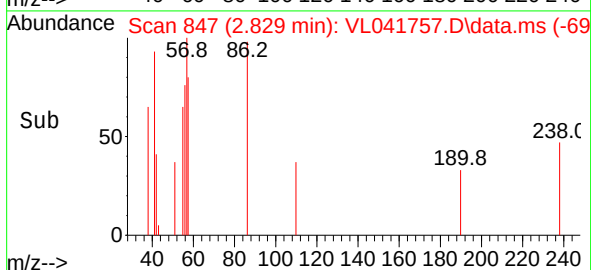
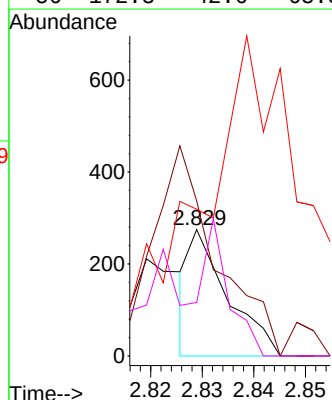
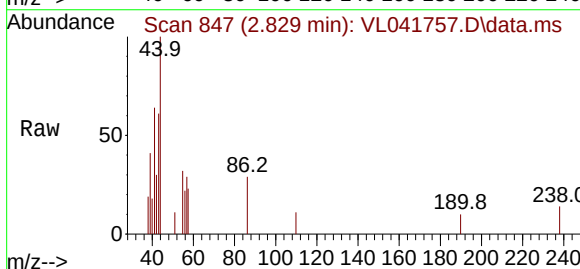
Ion Ratio Lower Upper

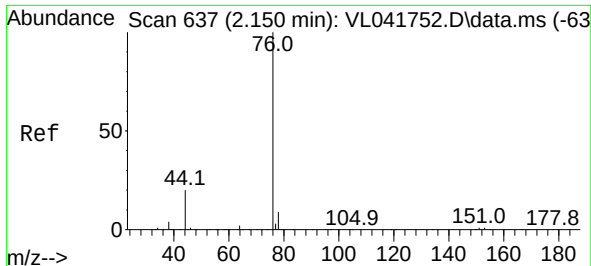
57 100

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_1

ClientSampleId :

VSTDIC0.03

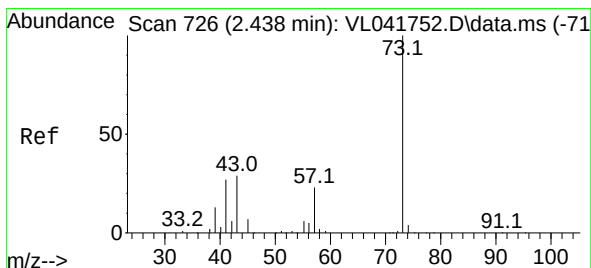
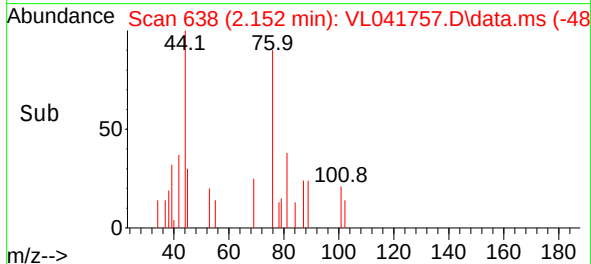
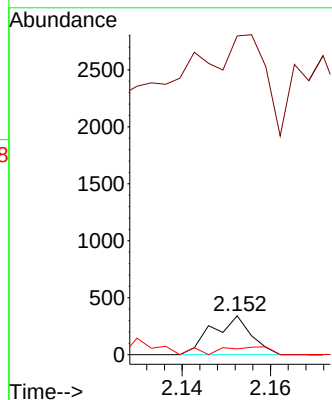
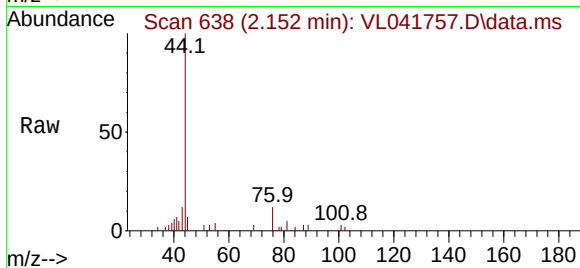
Tgt Ion: 76 Resp: 210

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

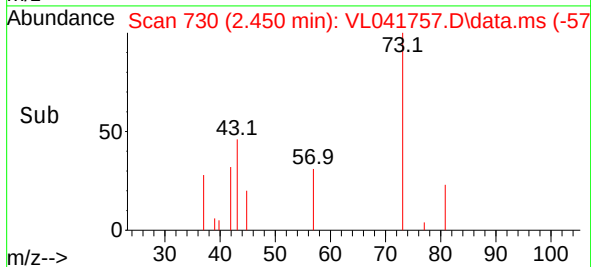
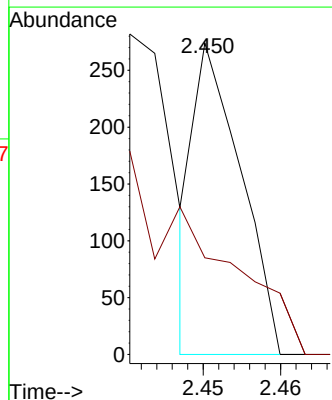
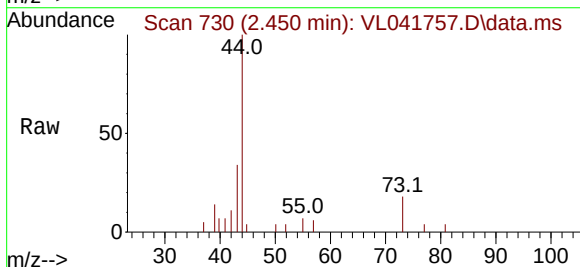
Acq: 16 Dec 2024 16:08

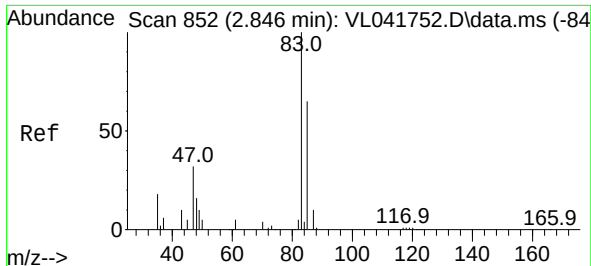
Tgt Ion: 73 Resp: 114

Ion Ratio Lower Upper

73 100

57 21.1 17.6 26.4





#29

Chloroform

Concen: 0.033 ppbv

RT: 2.852 min Scan# 85

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

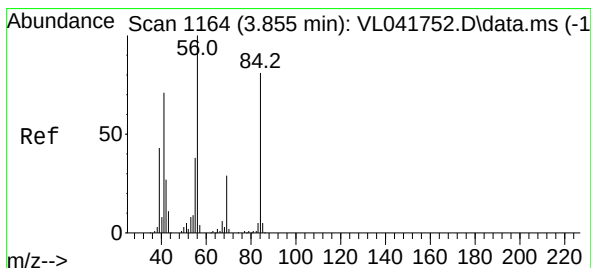
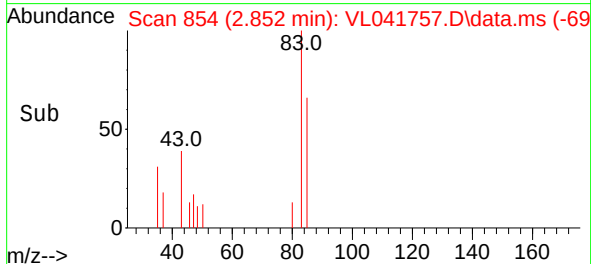
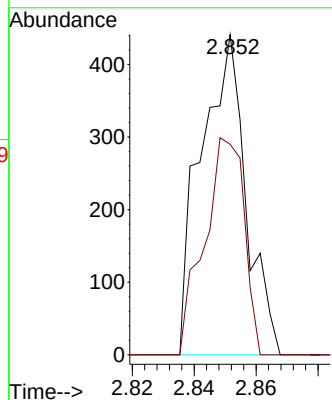
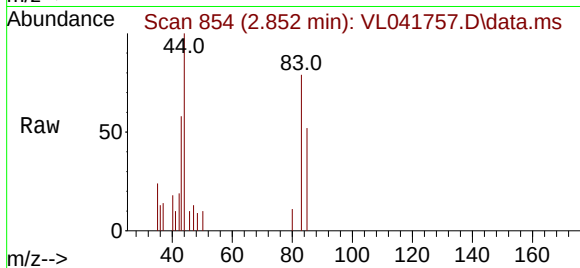
VSTDICC0.03

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

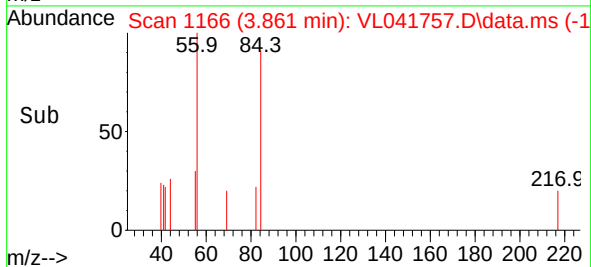
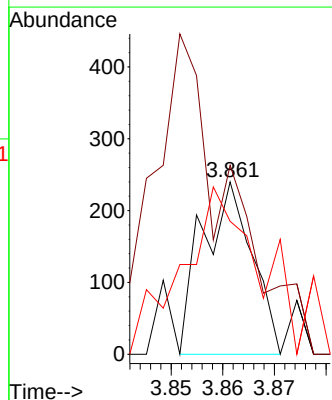
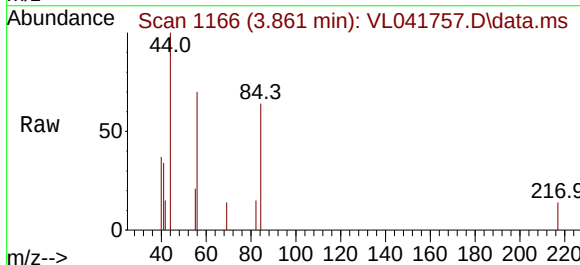
Tgt Ion: 84 Resp: 161

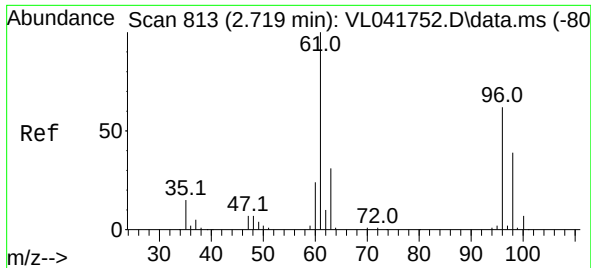
Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 170.8 74.0 111.0#

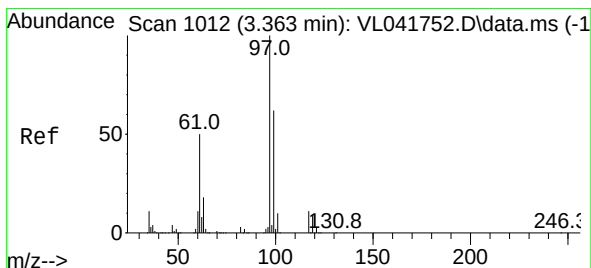
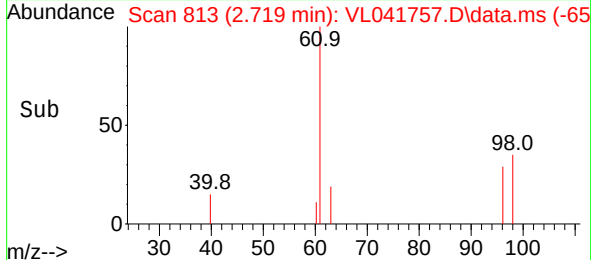
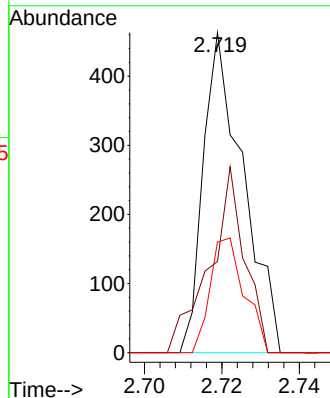
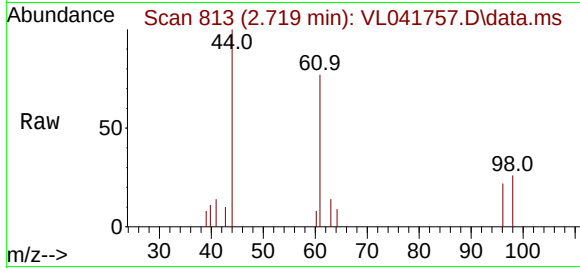




#31
 cis-1,2-Dichloroethene
 Concen: 0.036 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

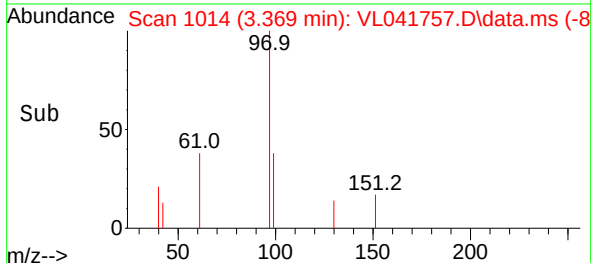
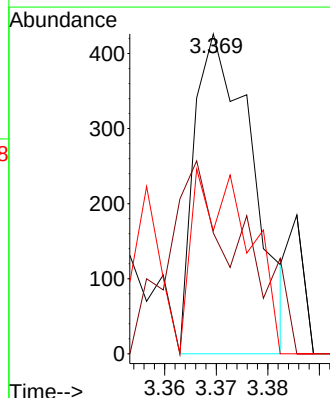
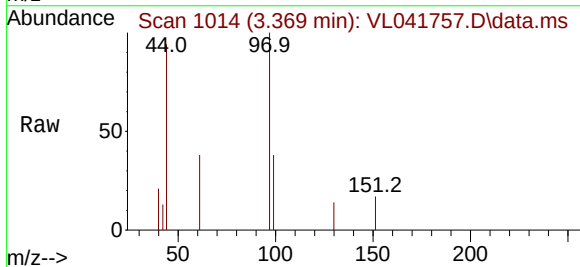
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

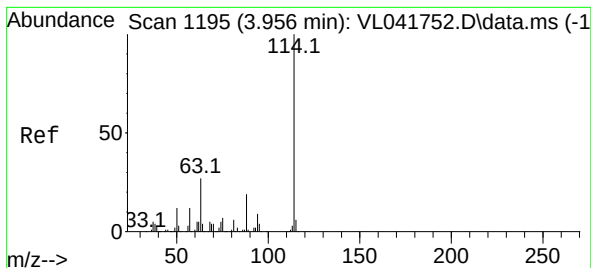
Tgt Ion: 61 Resp: 330
 Ion Ratio Lower Upper
 61 100
 96 28.5 49.7 74.5#
 98 34.6 30.8 46.2



#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

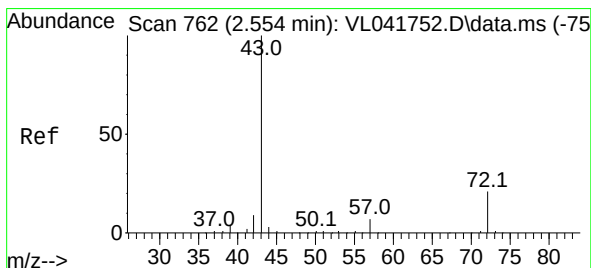
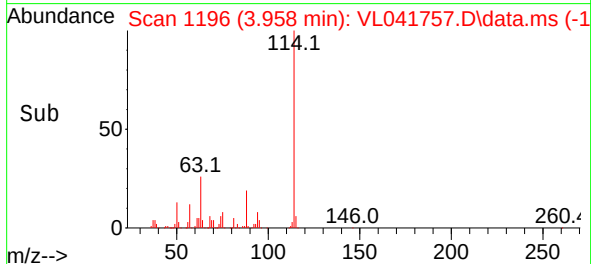
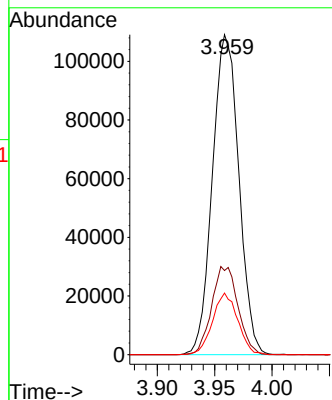
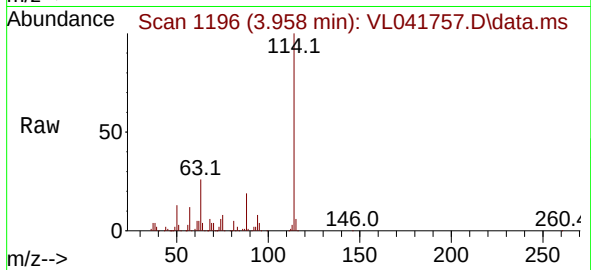
Tgt Ion:114 Resp: 174825

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

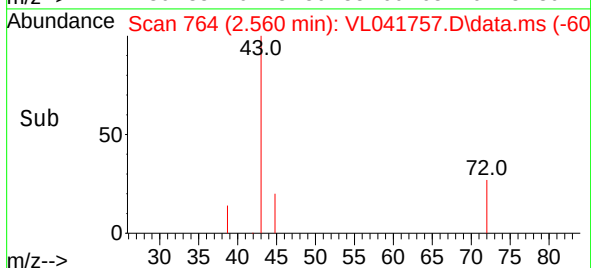
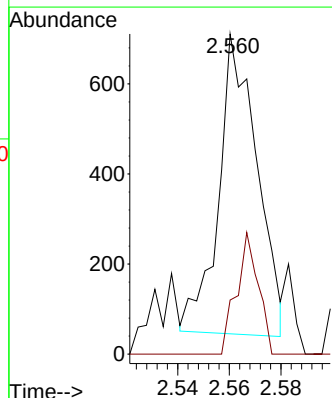
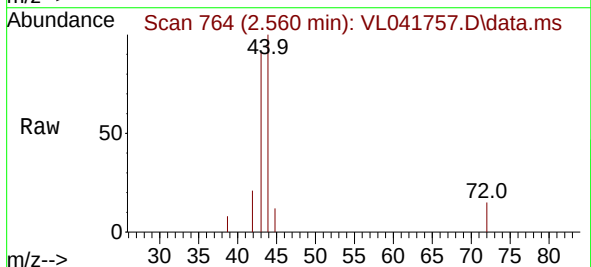
Acq: 16 Dec 2024 16:08

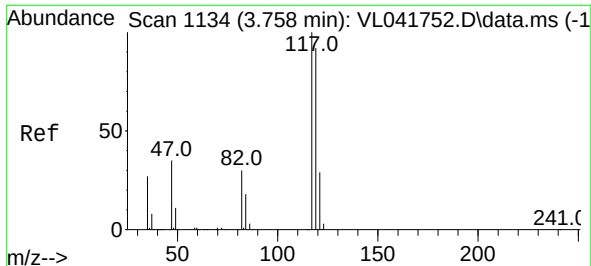
Tgt Ion: 43 Resp: 686

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

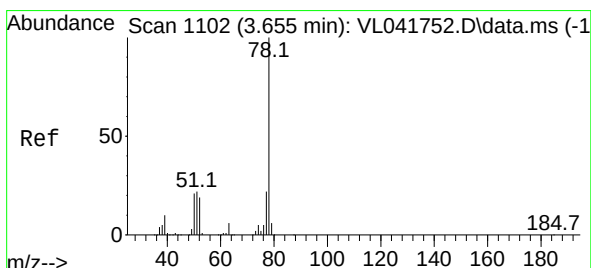
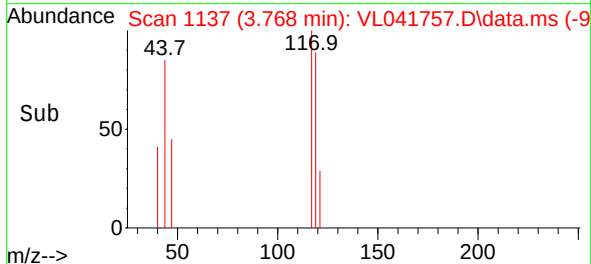
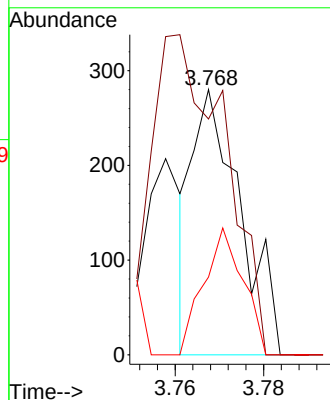
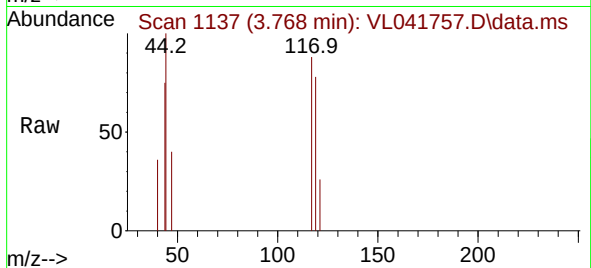
Tgt Ion:117 Resp: 209

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

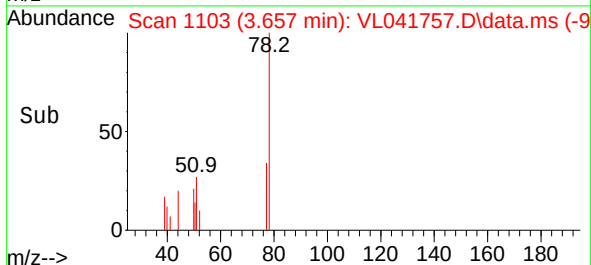
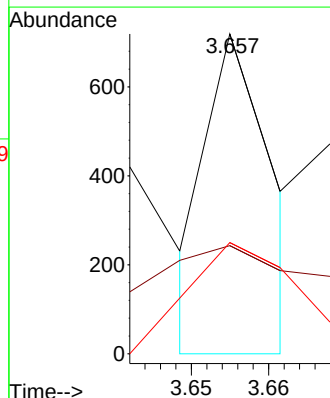
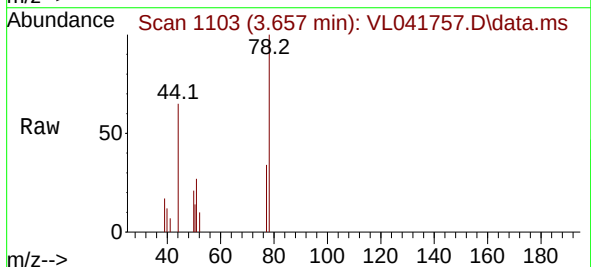
Tgt Ion: 78 Resp: 211

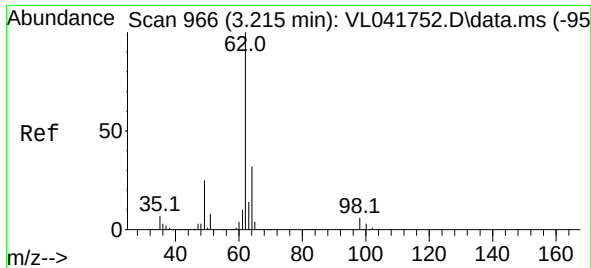
Ion Ratio Lower Upper

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 :

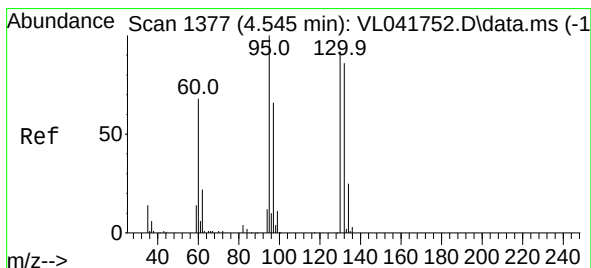
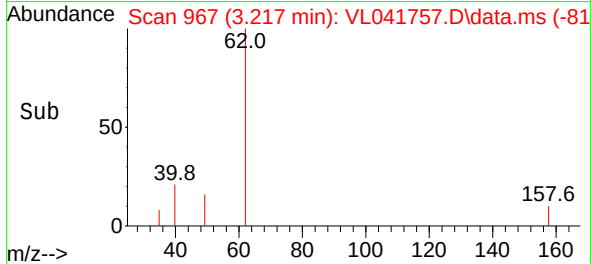
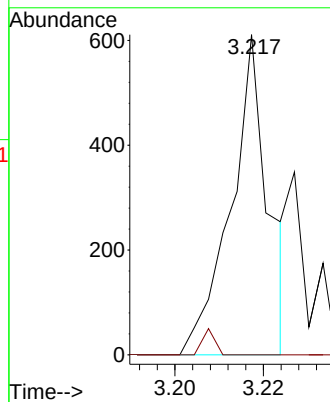
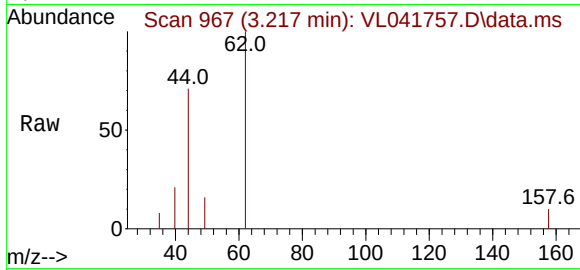
VSTDICC0.03

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

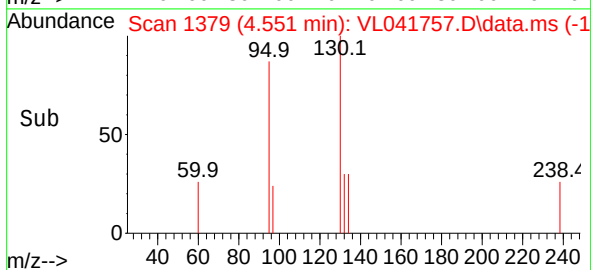
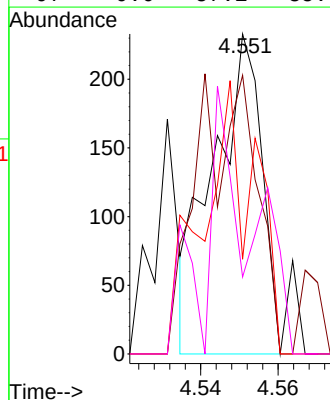
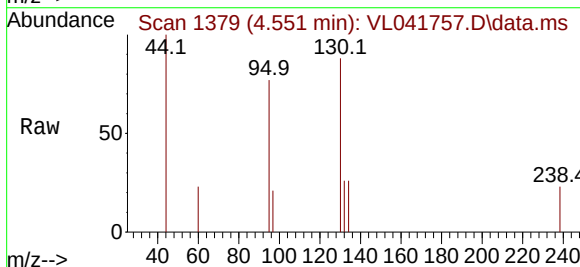
Ion Ratio Lower Upper

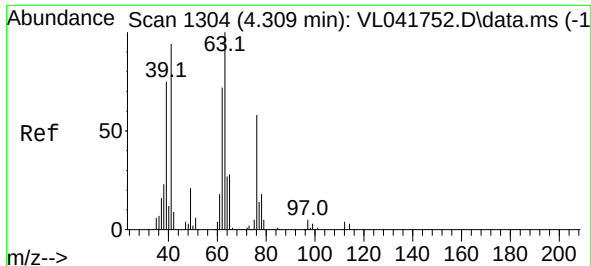
130 100

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_L

ClientSampleId :

VSTDIC0.03

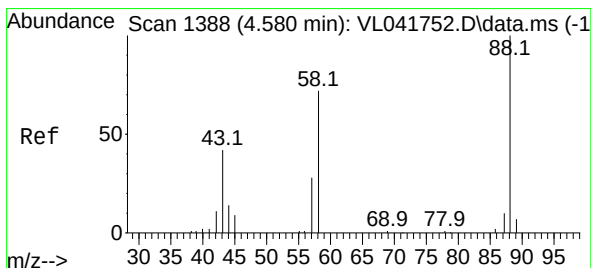
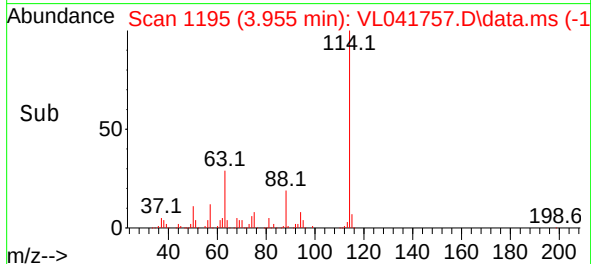
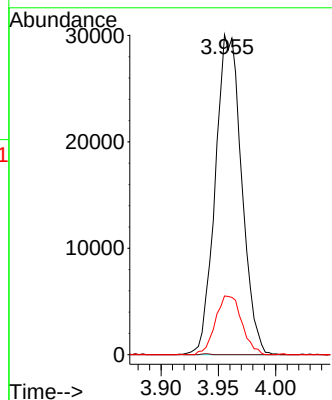
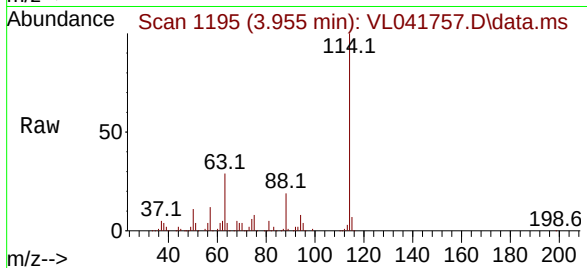
Tgt Ion: 63 Resp: 48113

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

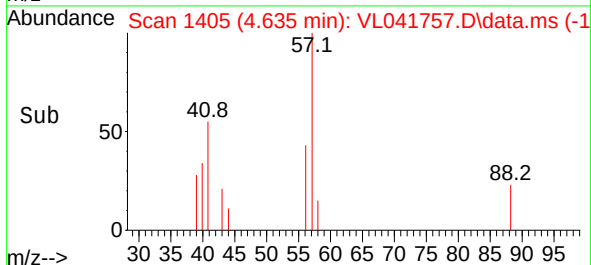
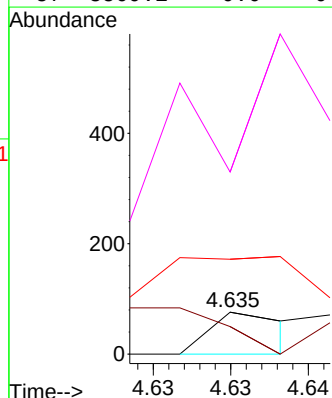
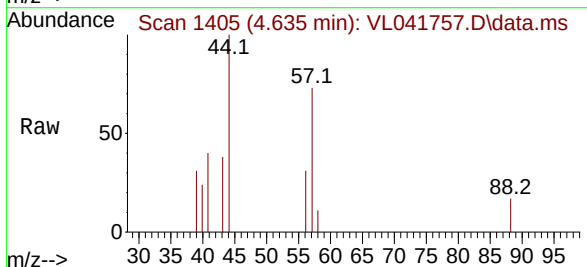
Ion Ratio Lower Upper

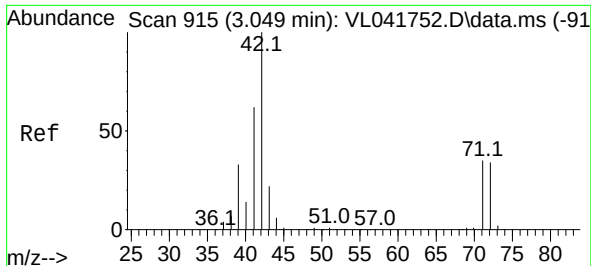
88 100

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

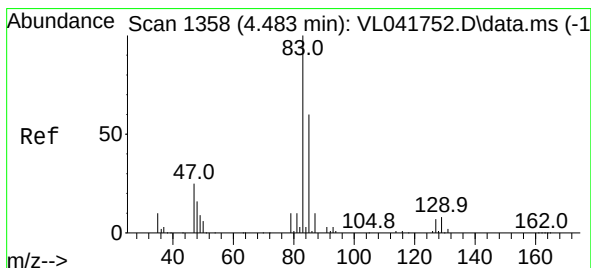
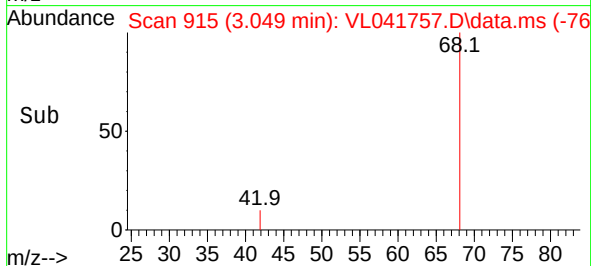
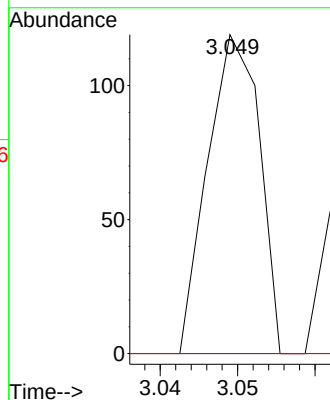
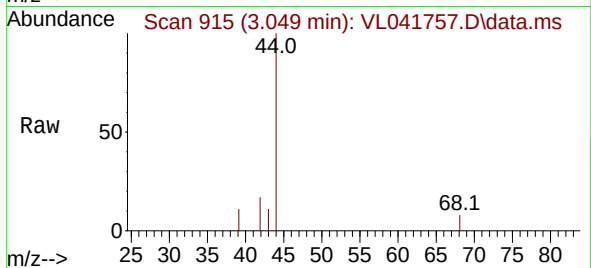
Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

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

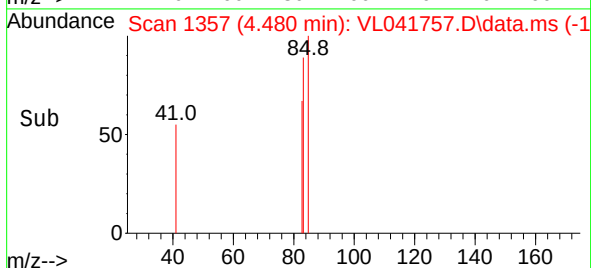
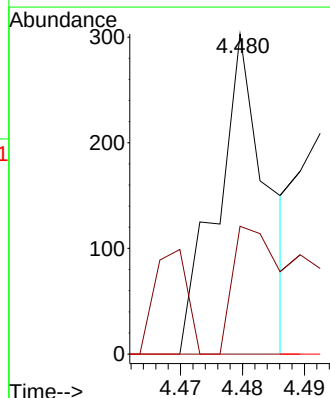
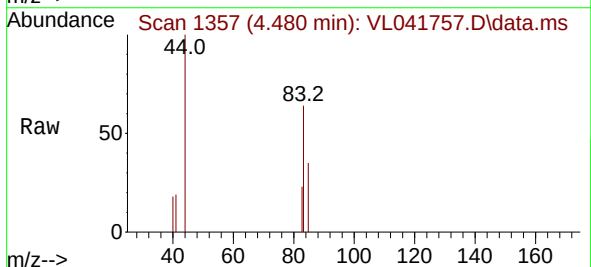
RT: 4.480 min Scan# 1357

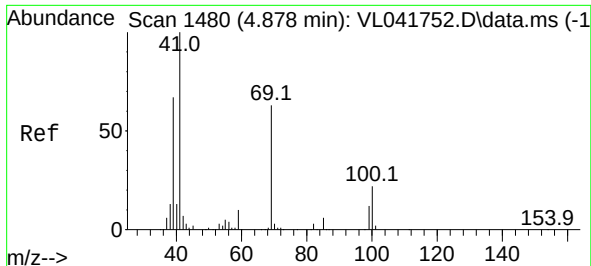
Delta R.T. -0.004 min

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 :

VSTDICC0.03

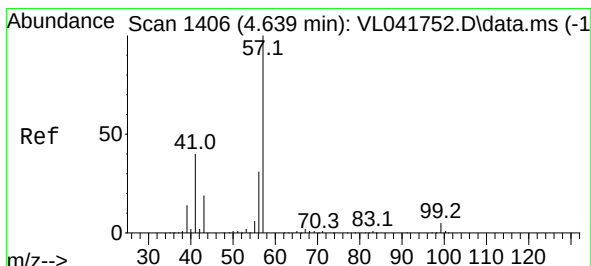
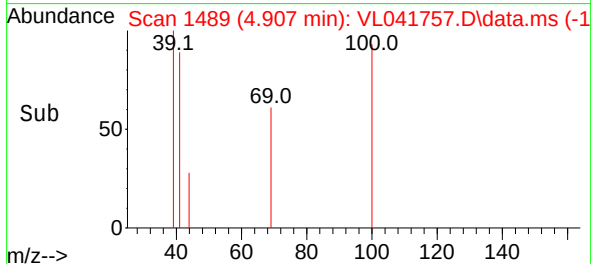
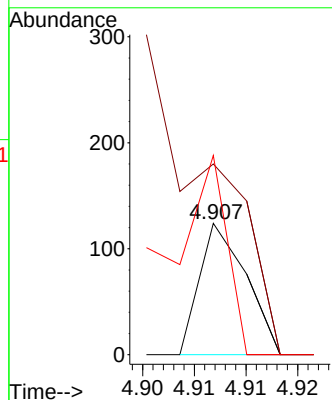
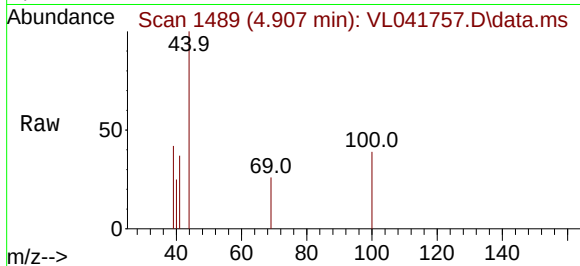
Tgt Ion: 69 Resp: 39

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

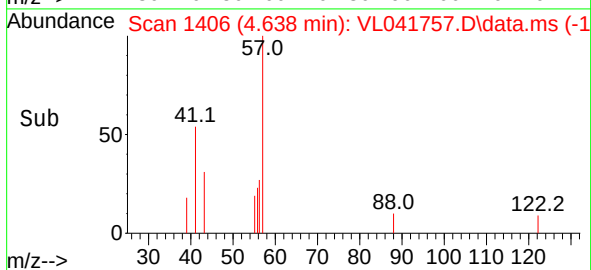
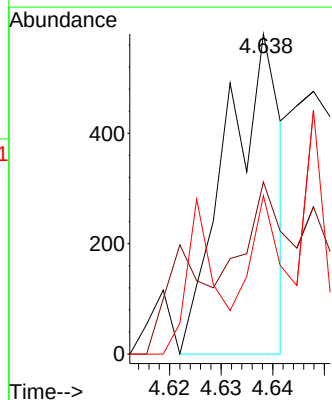
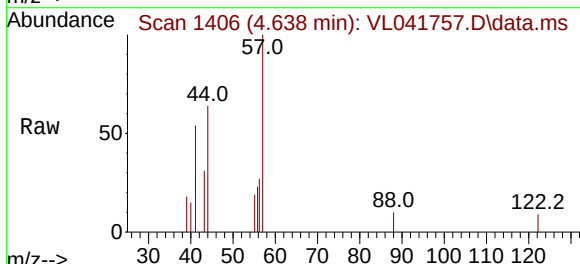
Tgt Ion: 57 Resp: 425

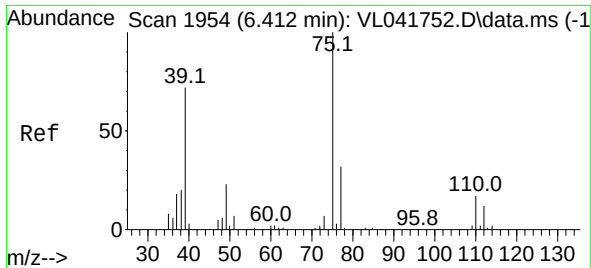
Ion Ratio Lower Upper

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 :

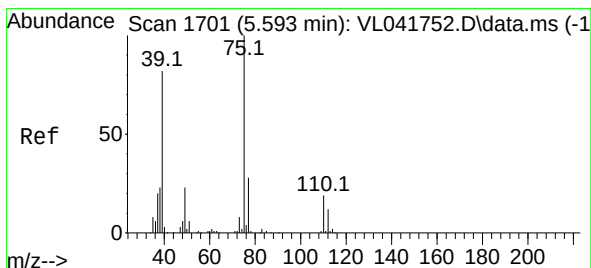
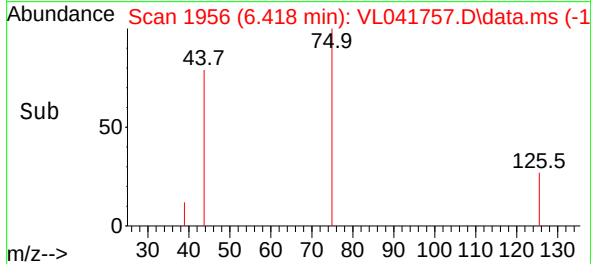
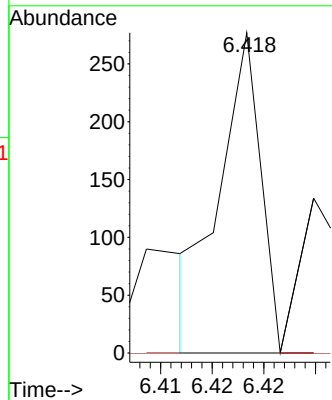
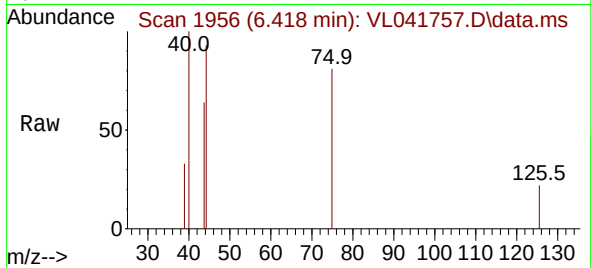
VSTDIC0.03

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

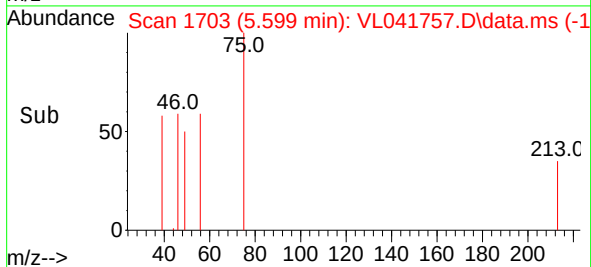
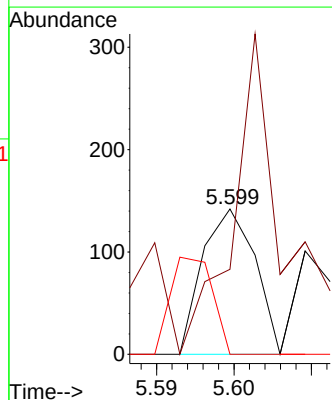
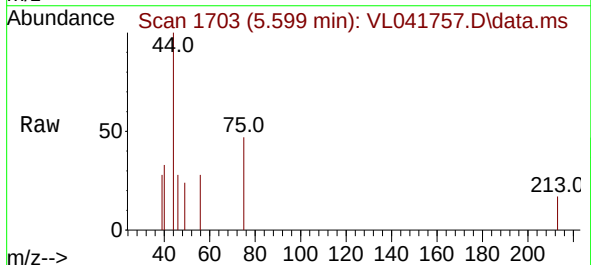
Tgt Ion: 75 Resp: 67

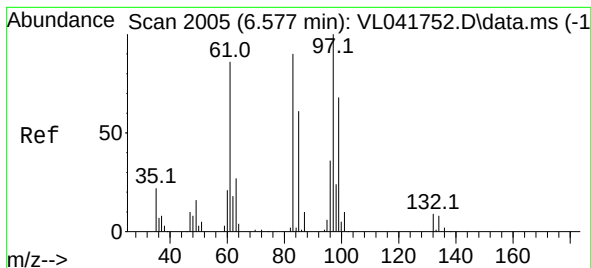
Ion Ratio Lower Upper

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 :

VSTDIC0.03

Tgt Ion: 97 Resp: 59

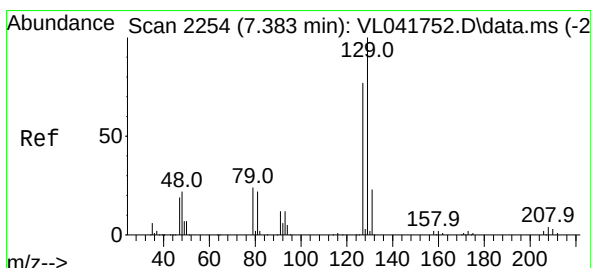
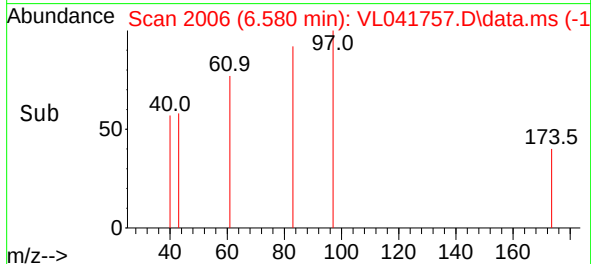
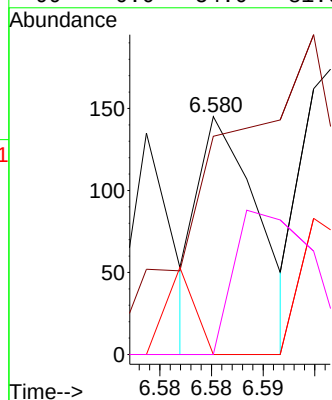
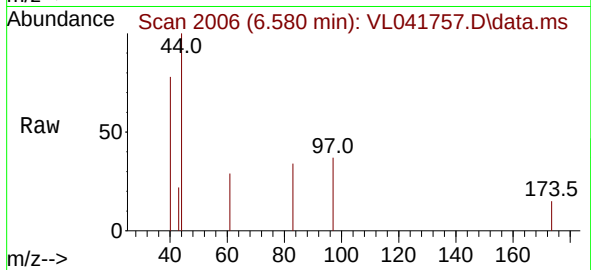
Ion Ratio Lower Upper

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

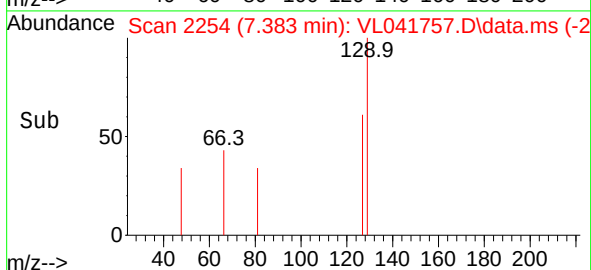
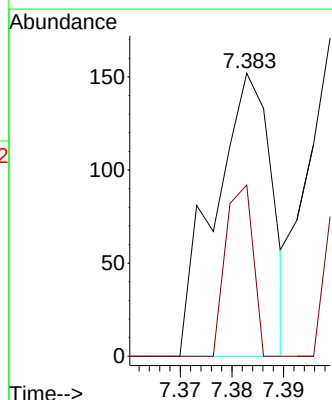
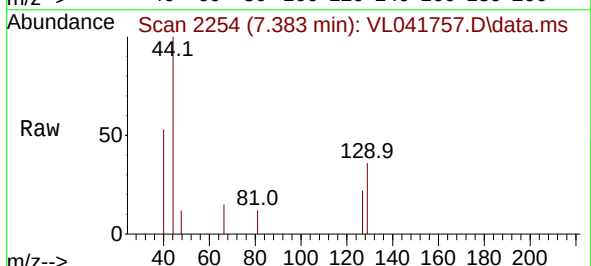
Acq: 16 Dec 2024 16:08

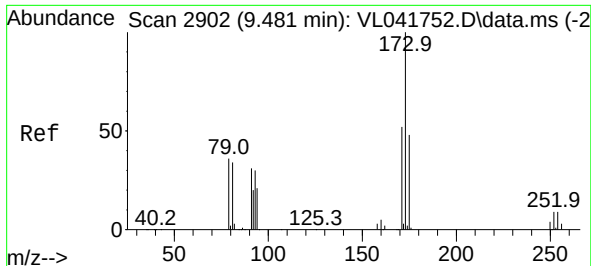
Tgt Ion:129 Resp: 117

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 :

VSTDIC0.03

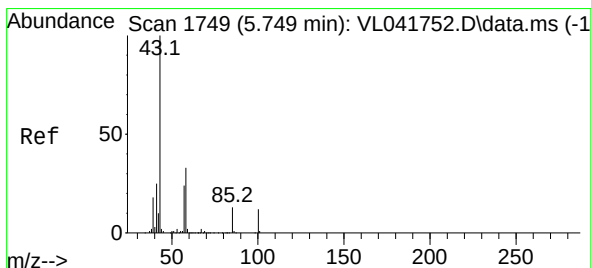
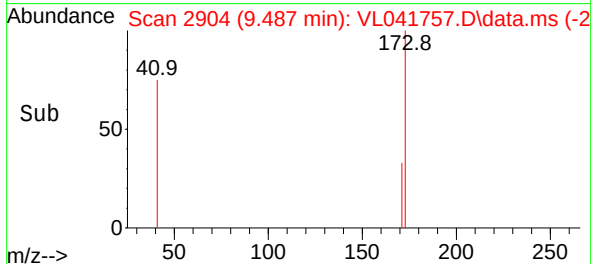
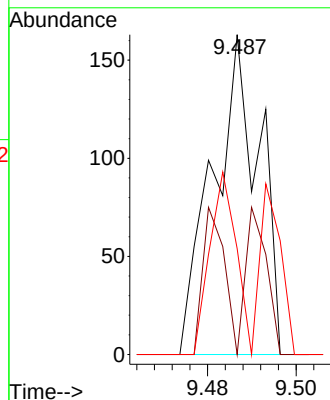
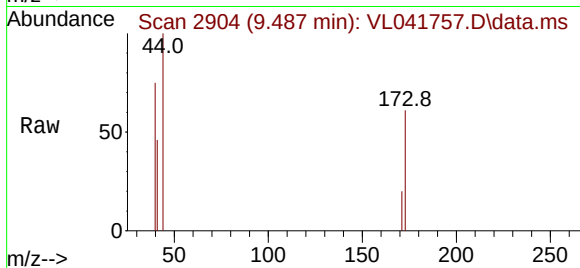
Tgt Ion:173 Resp: 118

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

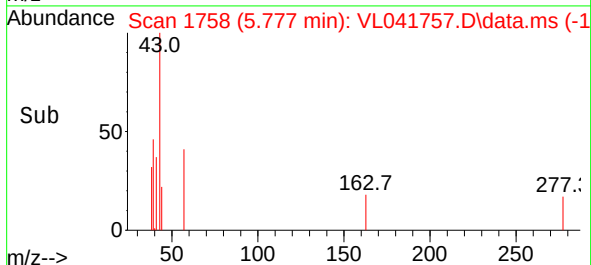
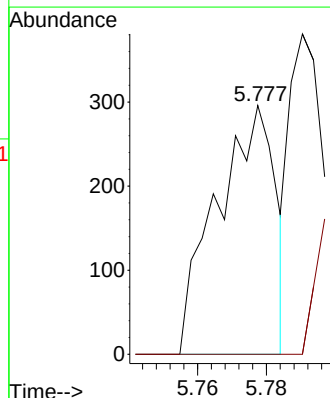
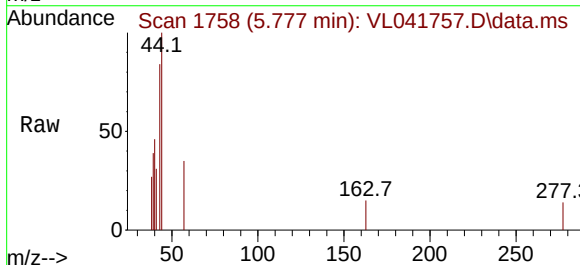
Acq: 16 Dec 2024 16:08

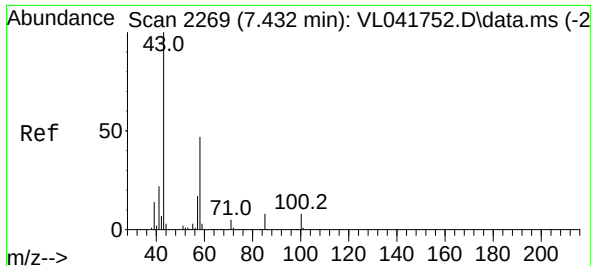
Tgt Ion: 43 Resp: 350

Ion Ratio Lower Upper

43 100

58 0.0 26.8 40.2#

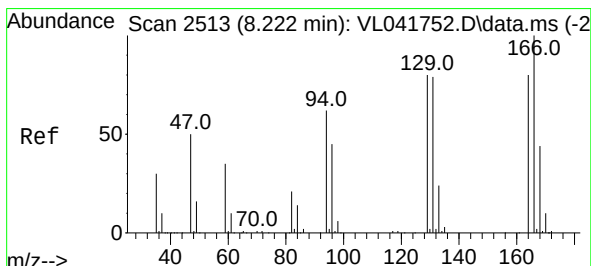
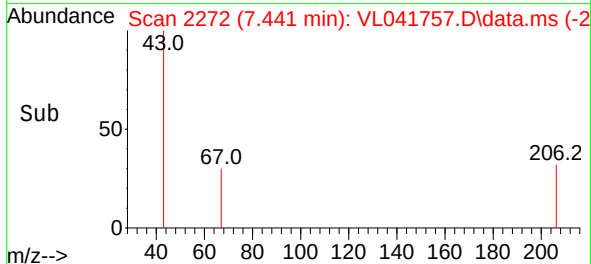
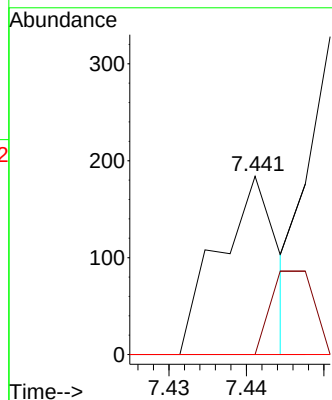
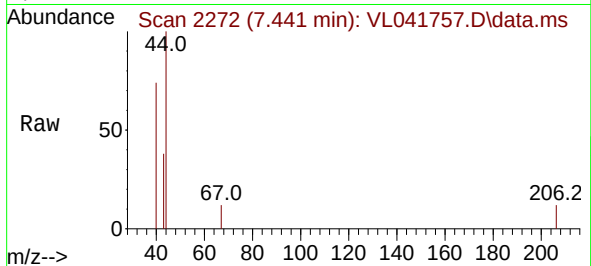




#51
2-Hexanone
Concen: 0.006 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

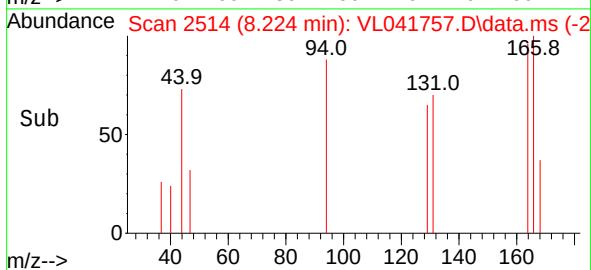
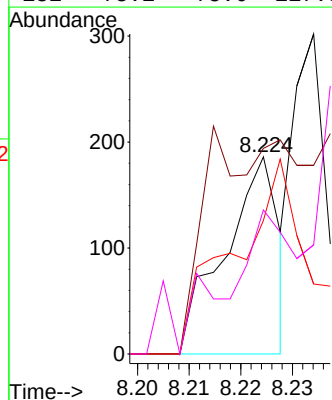
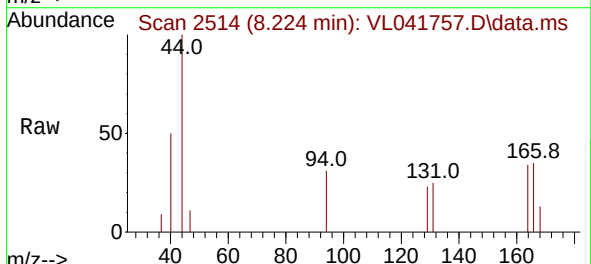
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

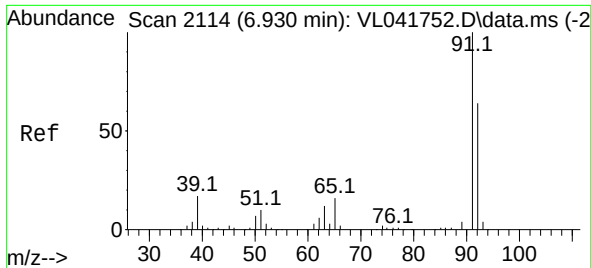
Tgt Ion: 43 Resp: 97
Ion Ratio Lower Upper
43 100
58 0.0 36.6 55.0#
98 0.0 0.1 0.1#



#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 :

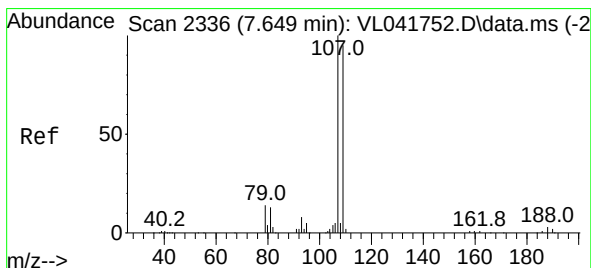
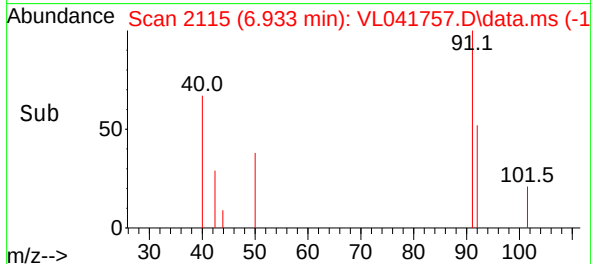
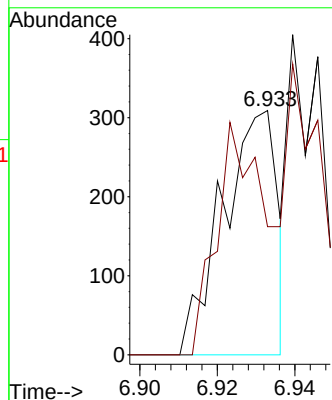
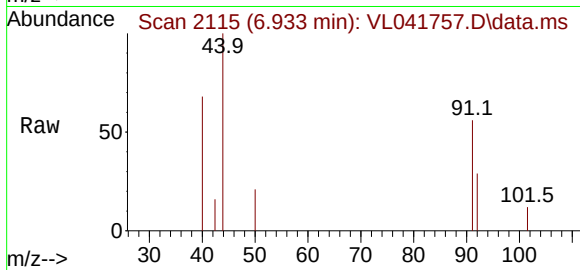
VSTDICC0.03

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

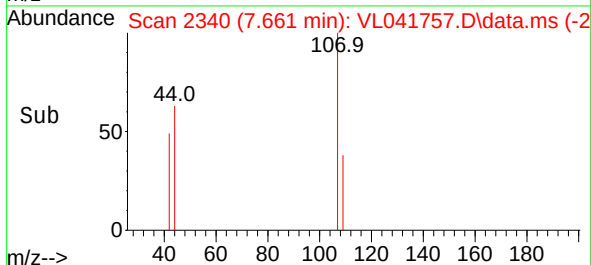
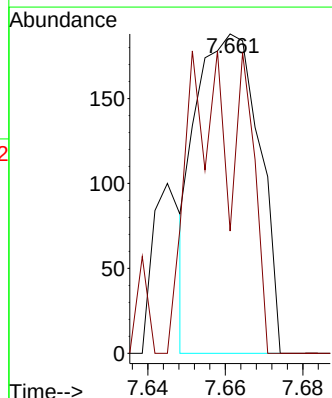
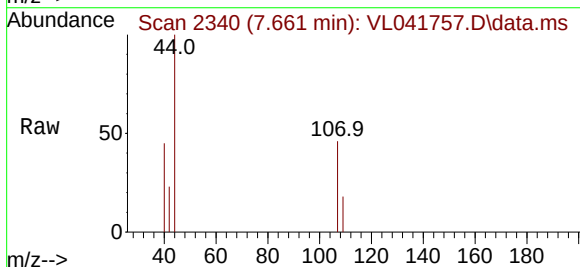
Acq: 16 Dec 2024 16:08

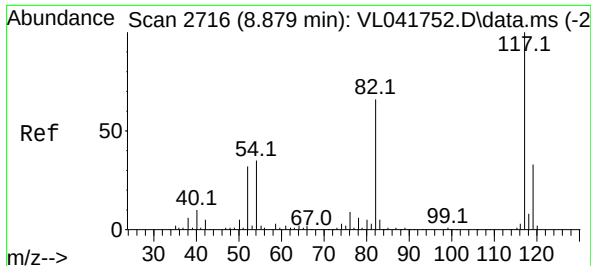
Tgt Ion: 107 Resp: 213

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

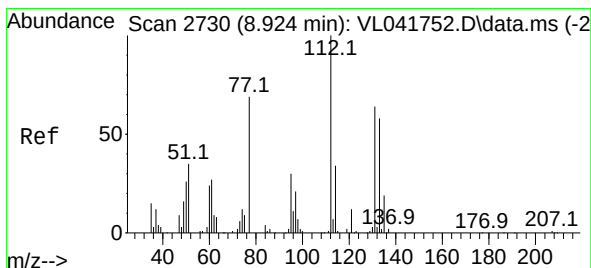
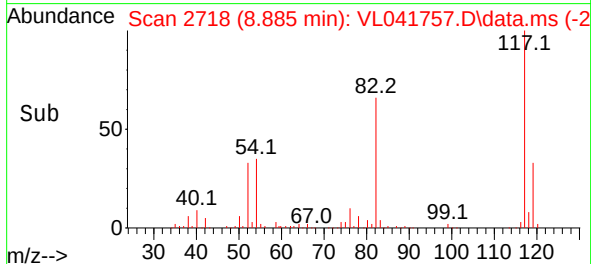
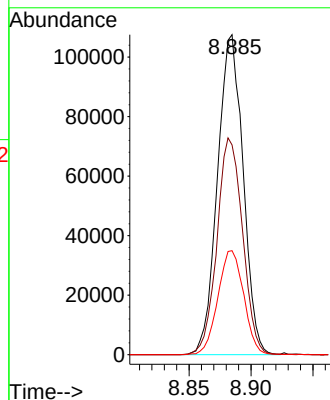
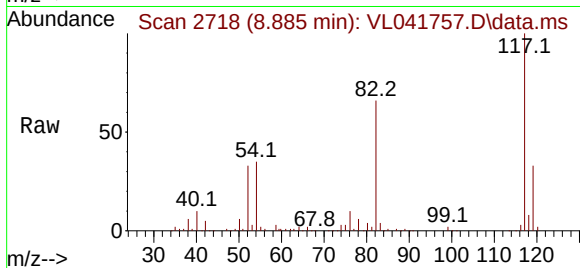
Tgt Ion:117 Resp: 154998

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

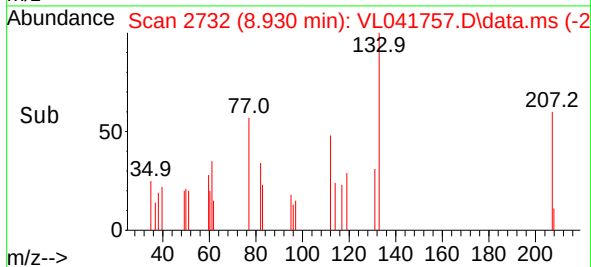
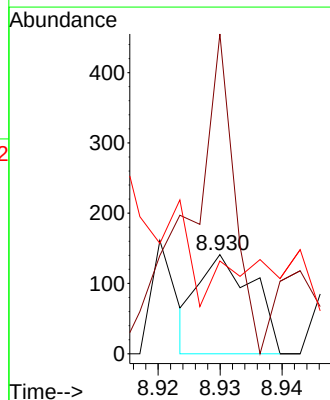
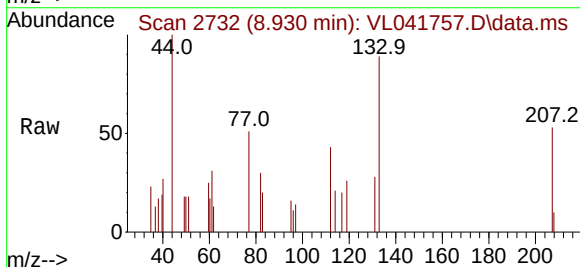
Tgt Ion:131 Resp: 86

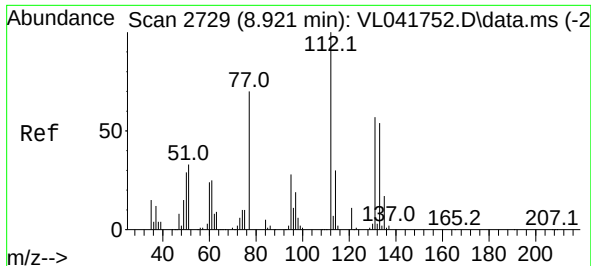
Ion Ratio Lower Upper

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

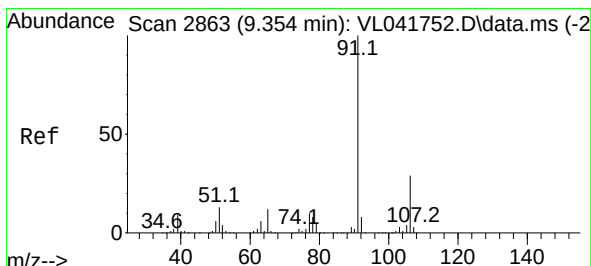
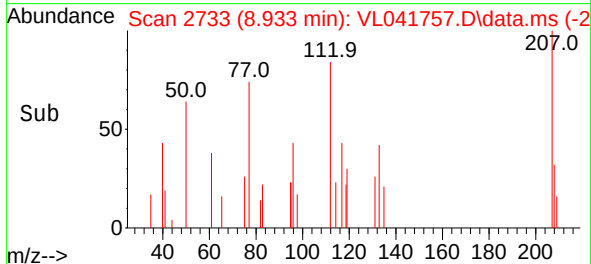
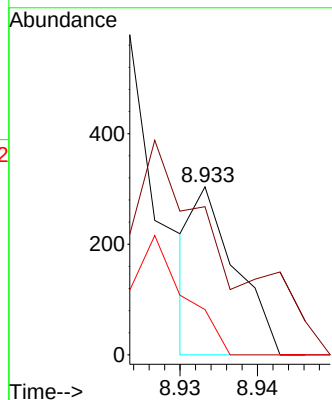
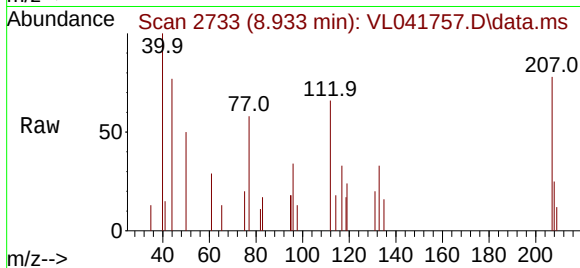
Tgt Ion:112 Resp: 114

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

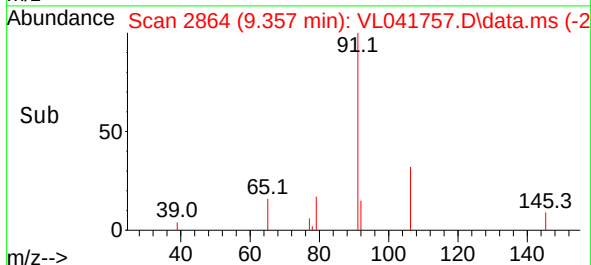
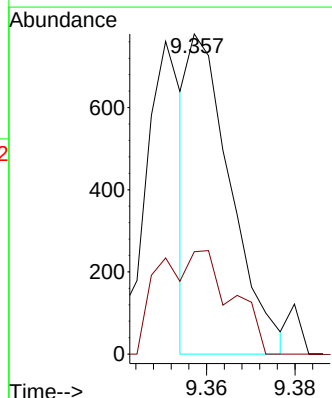
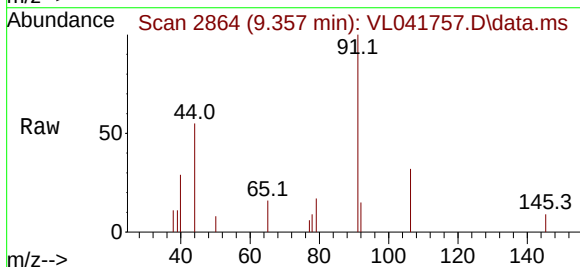
Acq: 16 Dec 2024 16:08

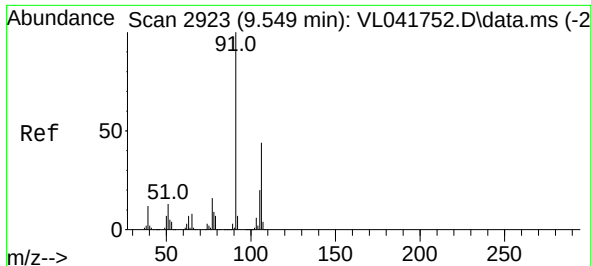
Tgt Ion: 91 Resp: 516

Ion Ratio Lower Upper

91 100

106 34.3 23.5 35.3

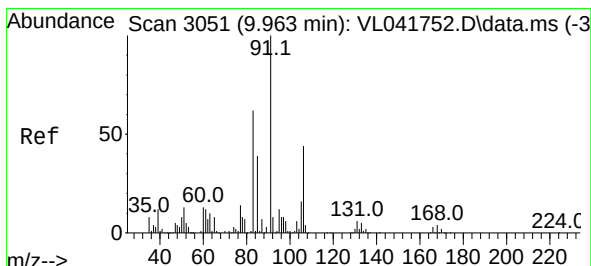
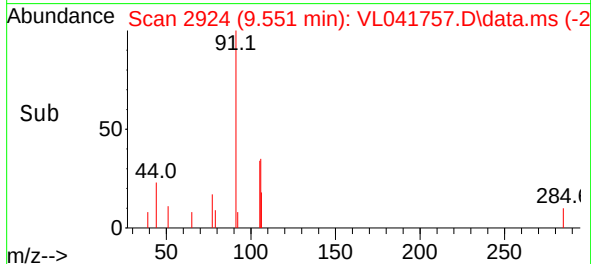
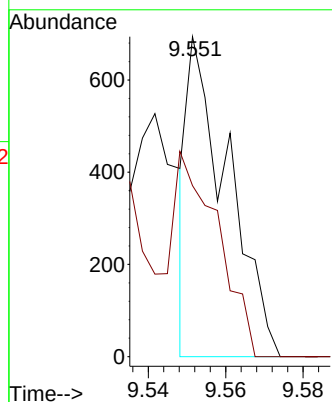
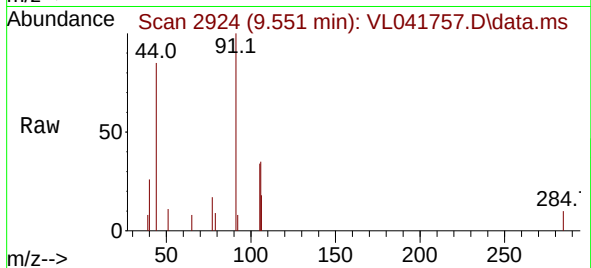




#59
m/p-Xylene
Concen: 0.022 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

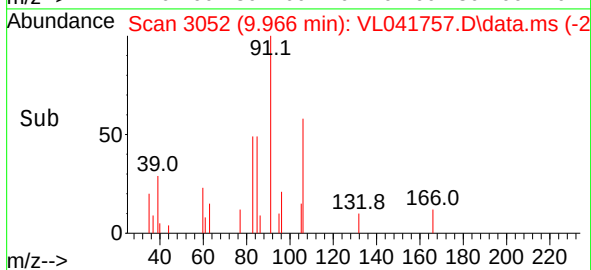
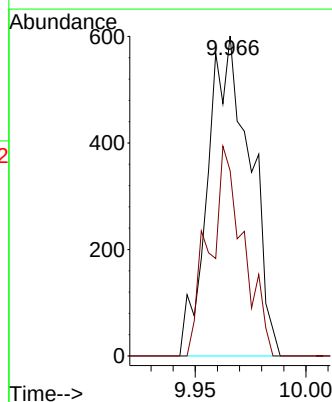
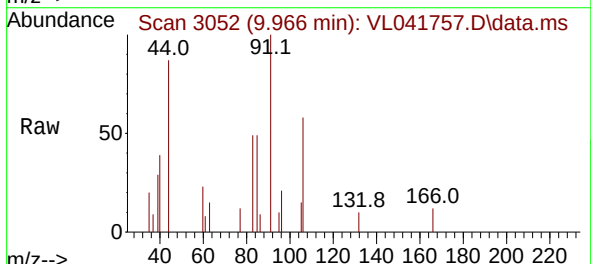
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

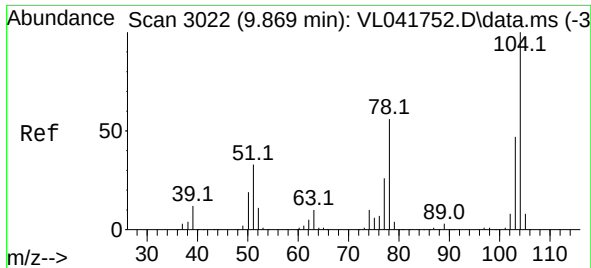
Tgt Ion: 91 Resp: 500
Ion Ratio Lower Upper
91 100
106 135.6 0.0 0.0#



#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

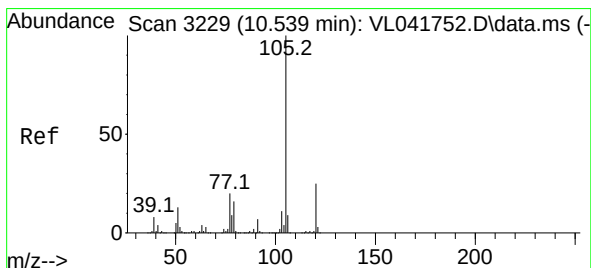
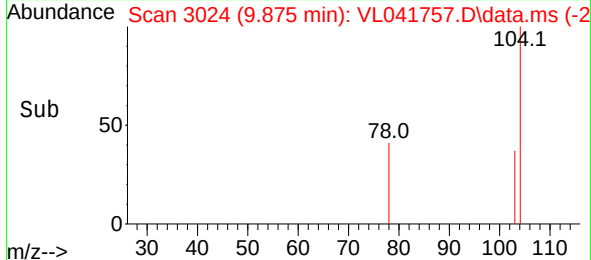
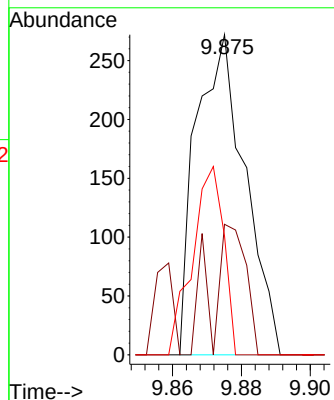
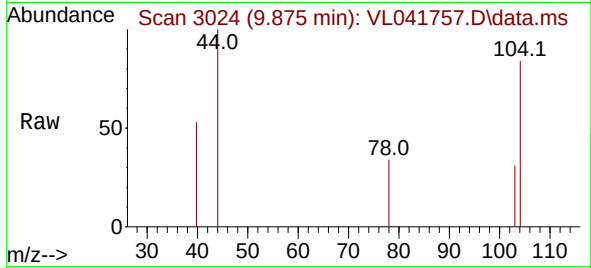




#61
Styrene
Concen: 0.027 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

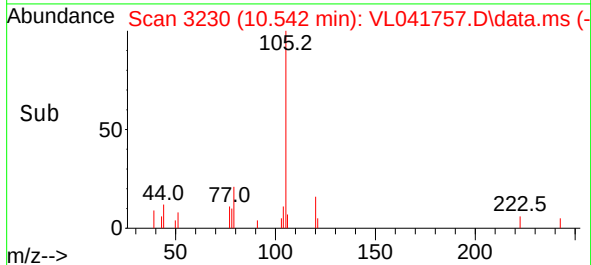
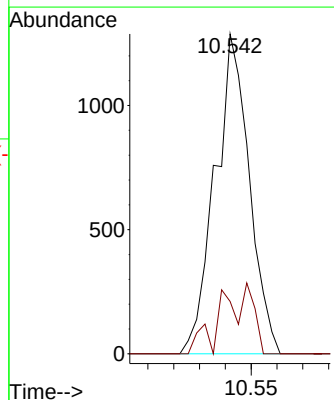
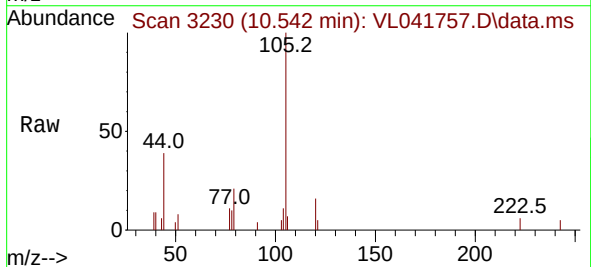
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

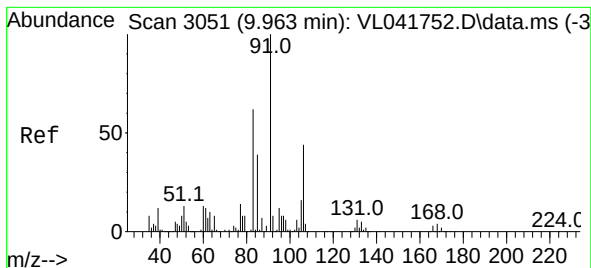
Tgt Ion:104 Resp: 267
Ion Ratio Lower Upper
104 100
78 28.8 43.8 65.6#
103 37.8 37.8 56.6



#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

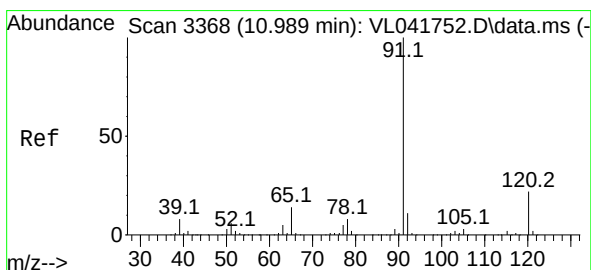
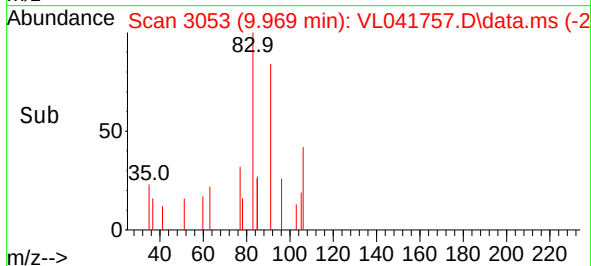
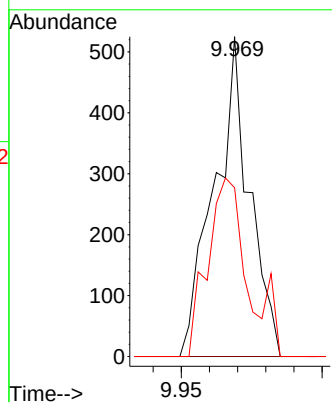
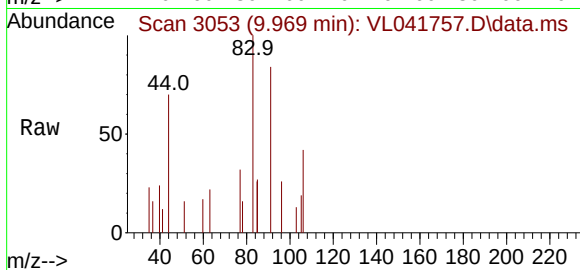
Tgt Ion: 83 Resp: 455

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

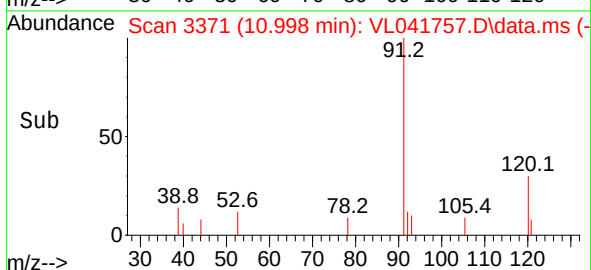
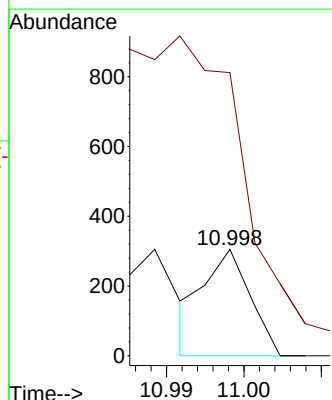
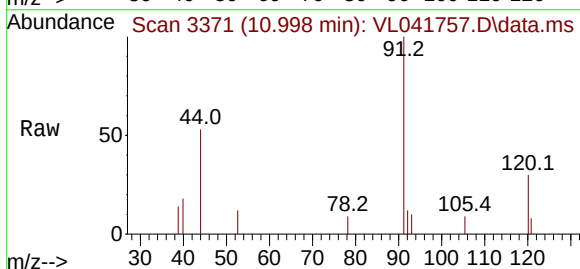
Acq: 16 Dec 2024 16:08

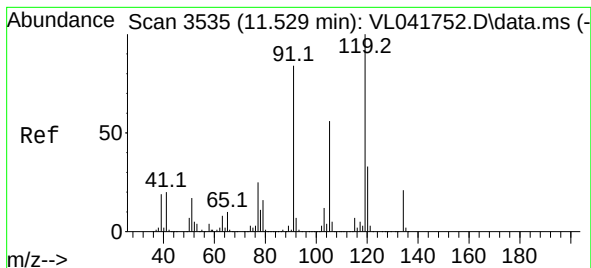
Tgt Ion:120 Resp: 126

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# 3535

Delta R.T. 0.006 min

Lab File: VL041757.D

Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

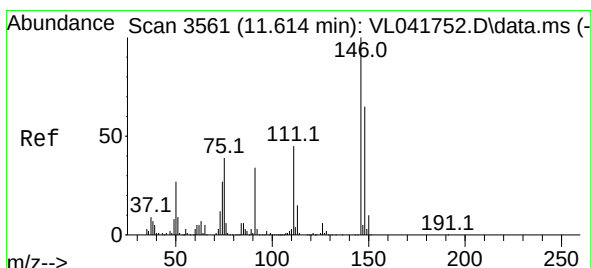
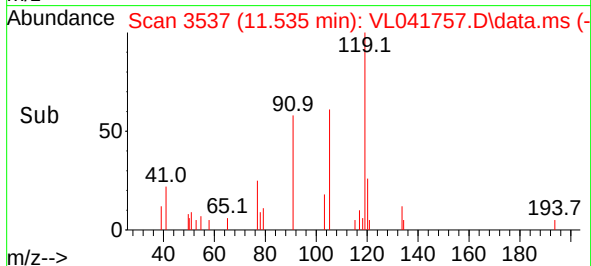
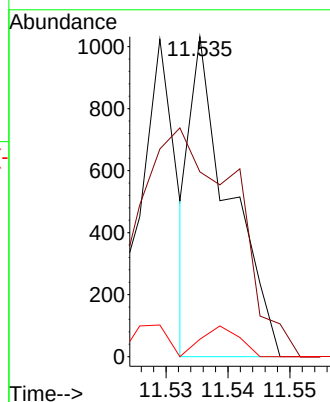
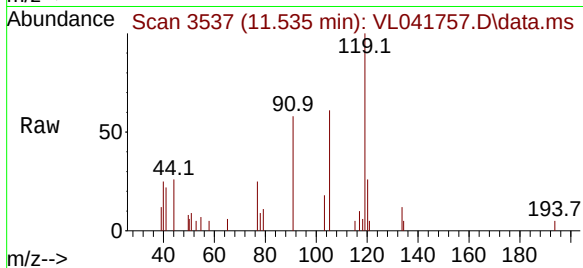
Tgt Ion:119 Resp: 444

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

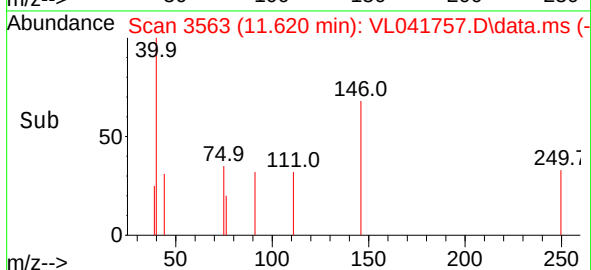
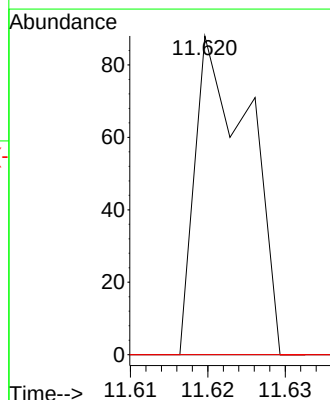
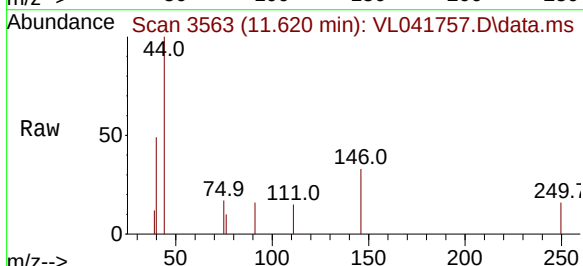
Tgt Ion: 91 Resp: 43

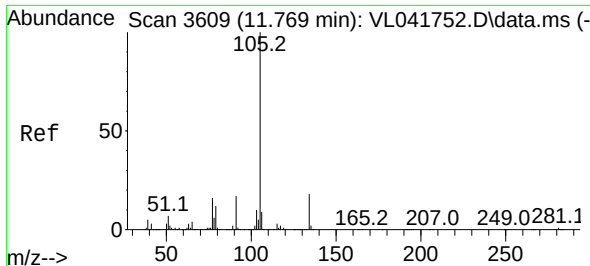
Ion Ratio Lower Upper

91 100

126 0.0 13.9 20.9#

128 0.0 4.4 6.6#

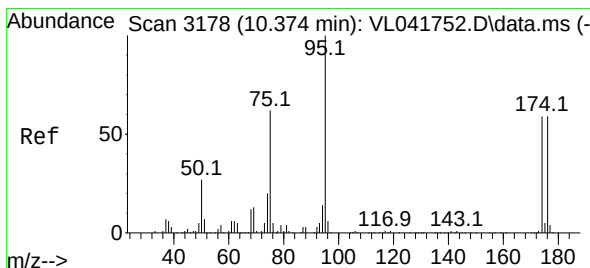
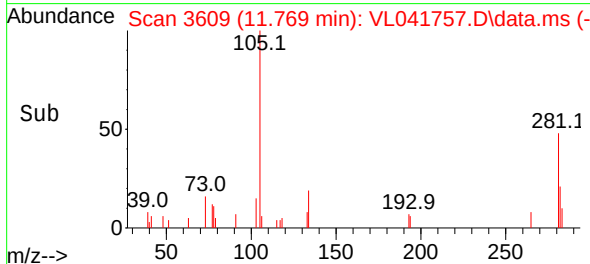
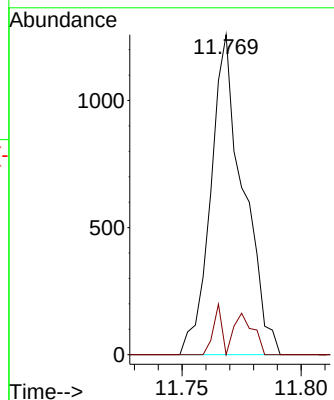
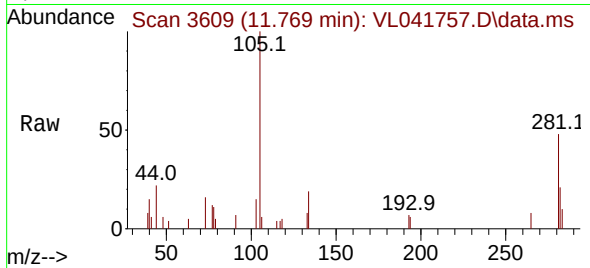




#67
 sec-Butylbenzene
 Concen: 0.028 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL041757.D
 Acq: 16 Dec 2024 16:08

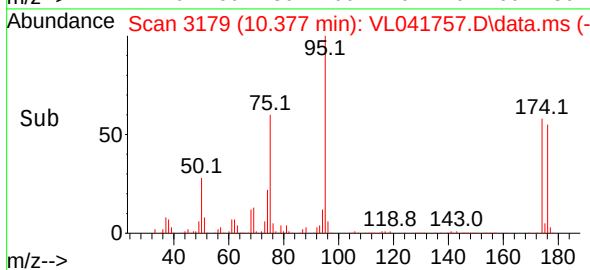
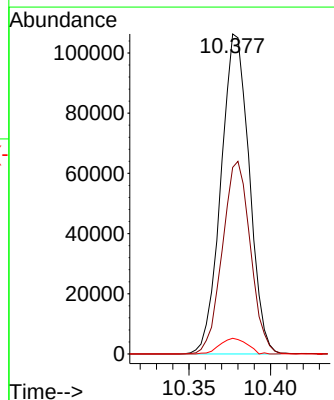
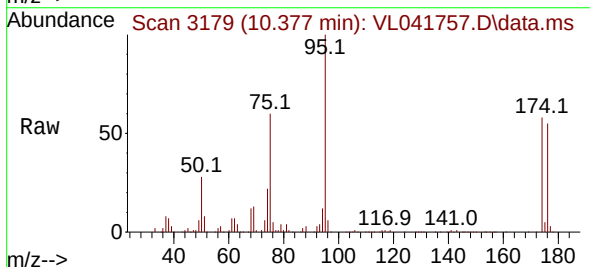
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

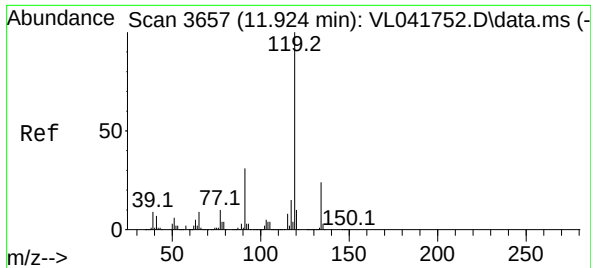
Tgt Ion:105 Resp: 1194
 Ion Ratio Lower Upper
 105 100
 134 11.9 14.5 21.7#



#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

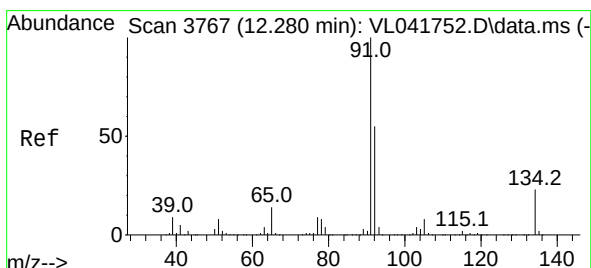
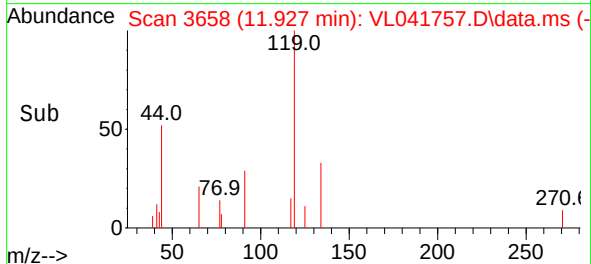
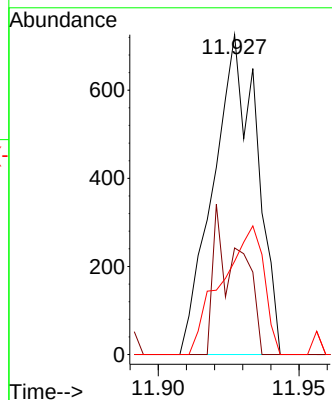
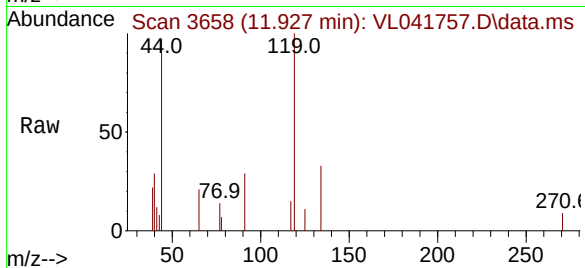
Tgt Ion:119 Resp: 781

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

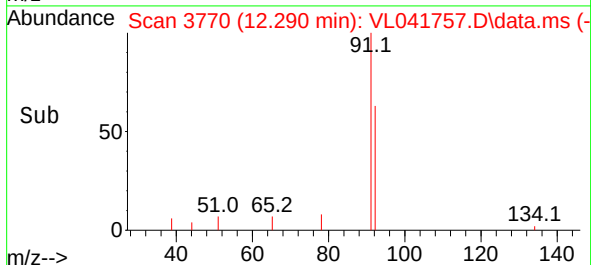
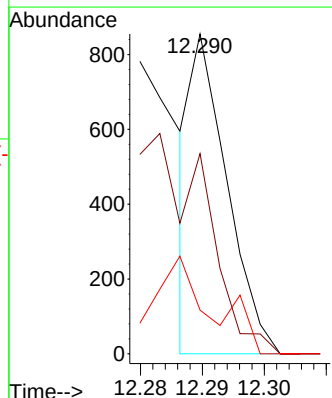
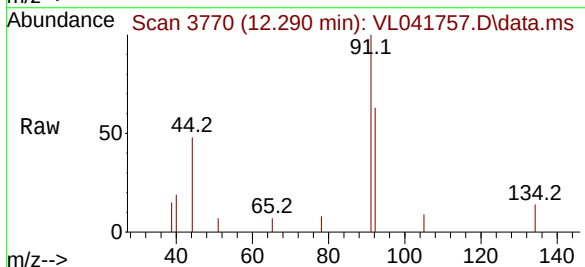
Tgt Ion: 91 Resp: 344

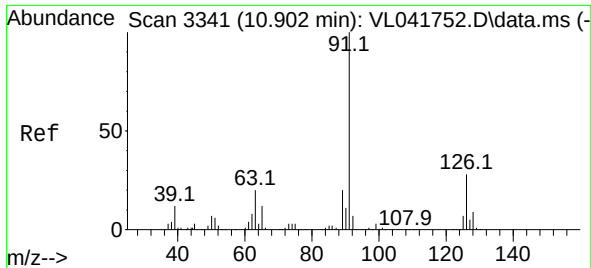
Ion Ratio Lower Upper

91 100

92 159.0 43.2 64.8#

134 61.0 18.2 27.4#

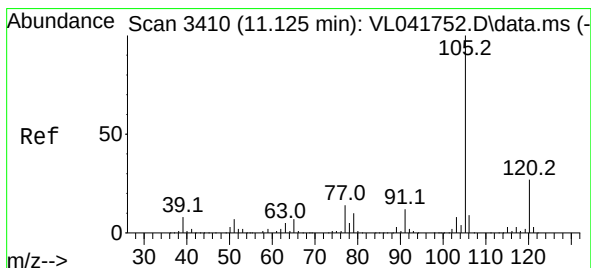
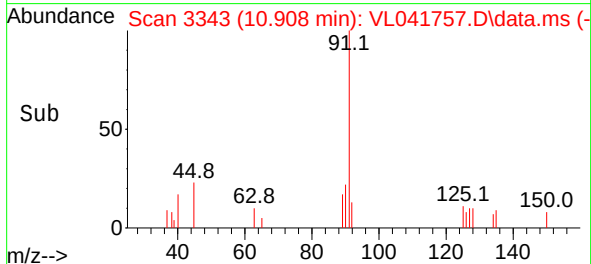
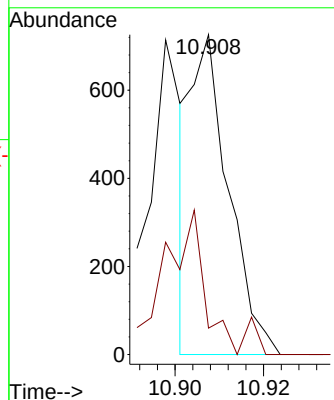
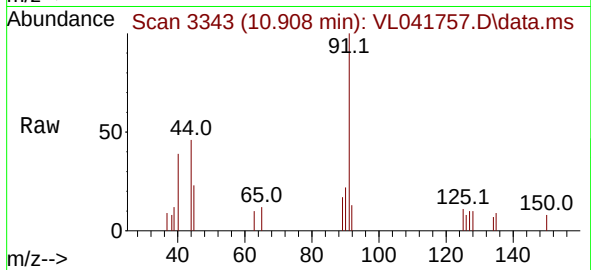




#71
2-Chlorotoluene
Concen: 0.017 ppbv
RT: 10.908 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

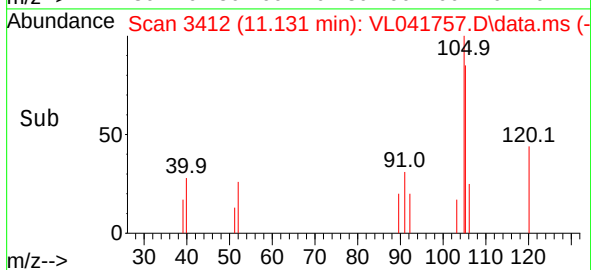
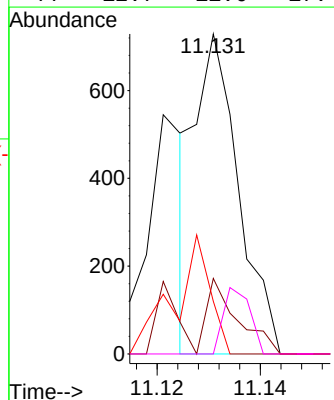
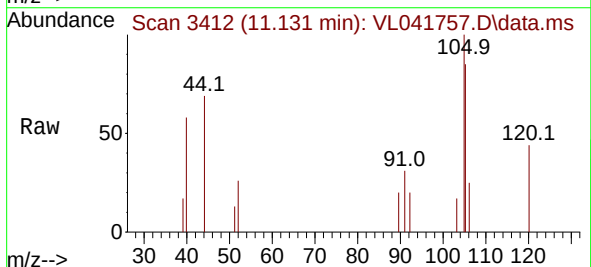
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

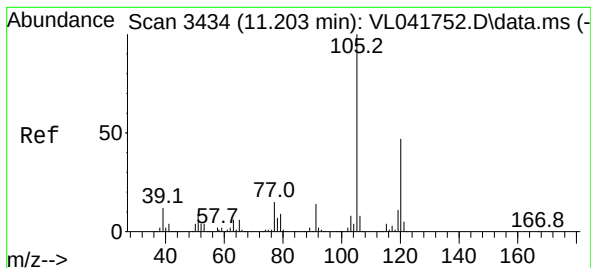
Tgt Ion: 91 Resp: 428
Ion Ratio Lower Upper
91 100
126 51.9 11.6 46.4#



#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 :

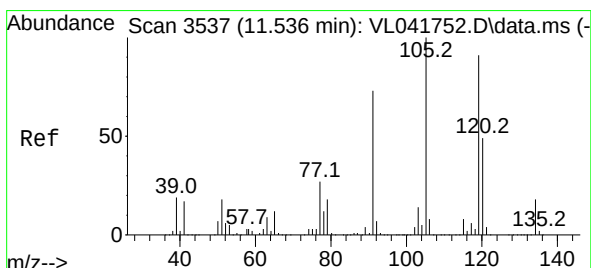
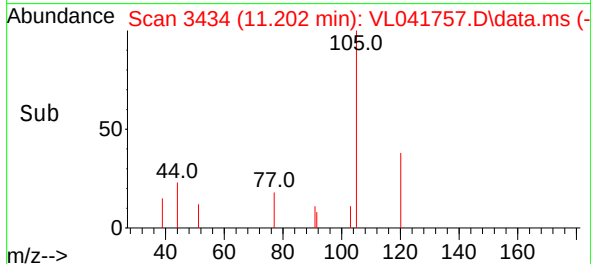
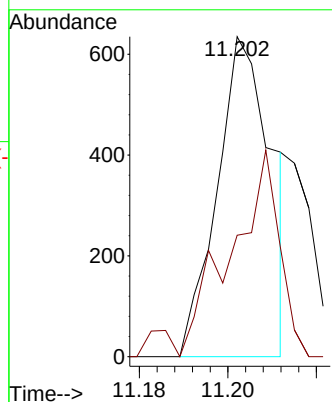
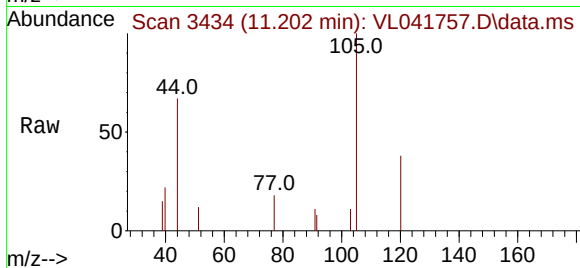
VSTDIC0.03

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

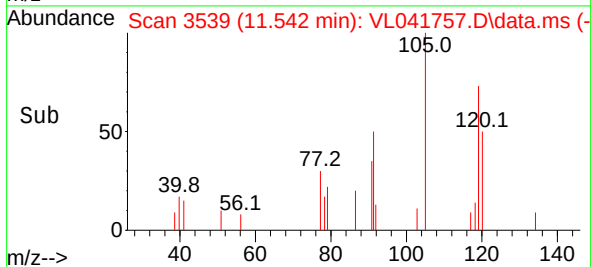
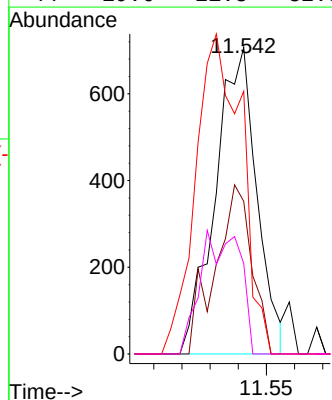
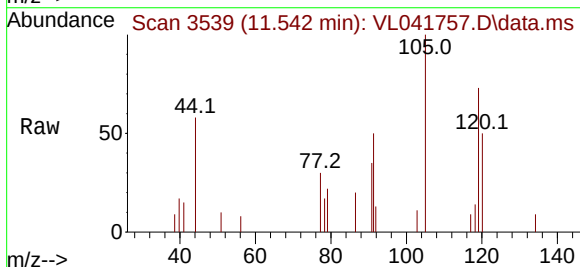
Ion Ratio Lower Upper

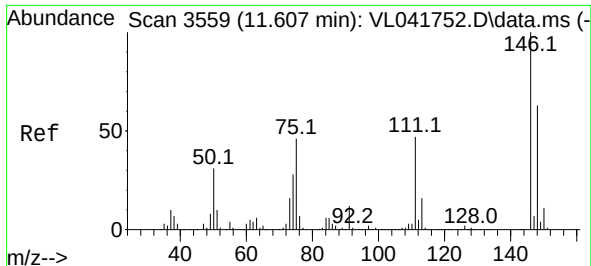
105 100

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

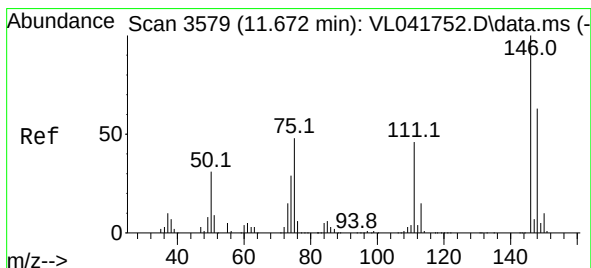
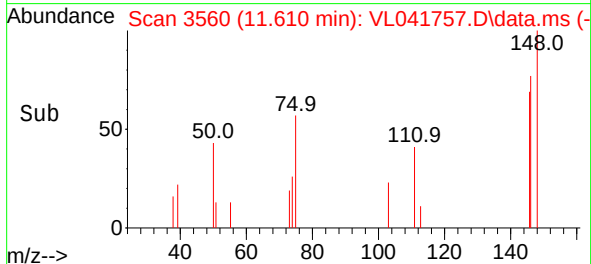
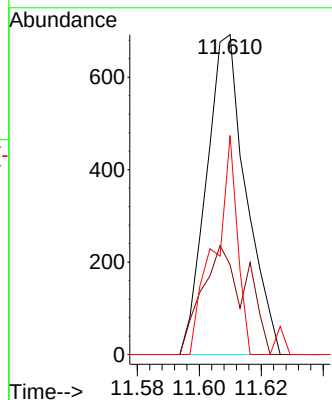
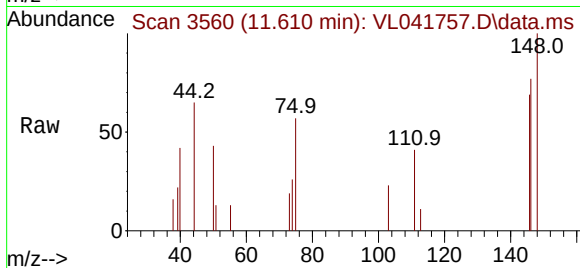
Tgt Ion:146 Resp: 613

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

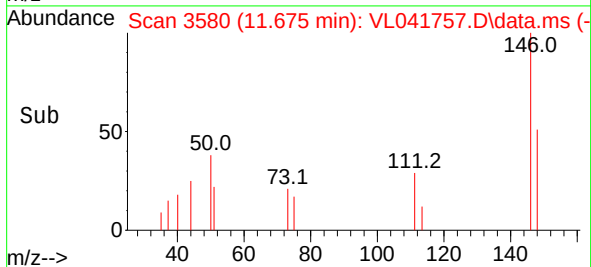
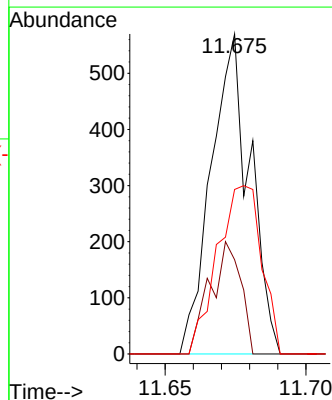
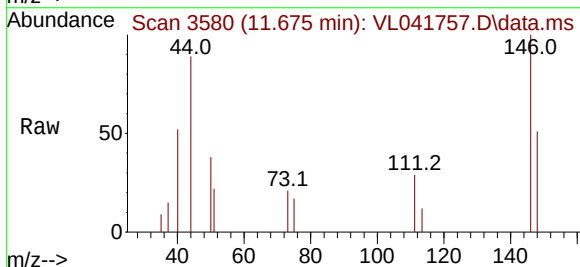
Tgt Ion:146 Resp: 547

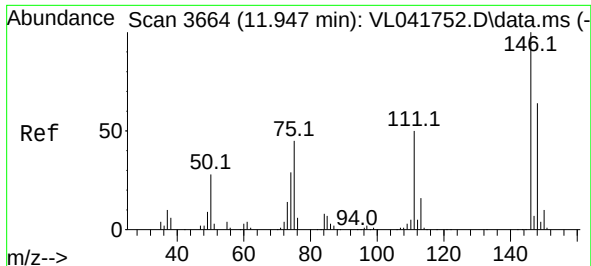
Ion Ratio Lower Upper

146 100

111 27.6 22.7 68.1

148 59.8 31.4 94.0

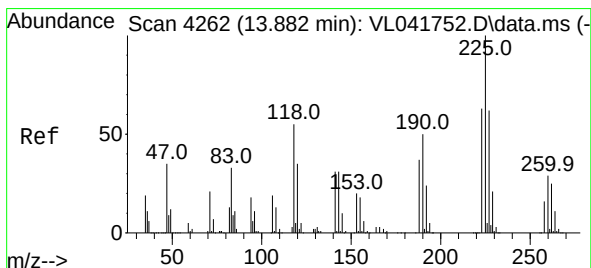
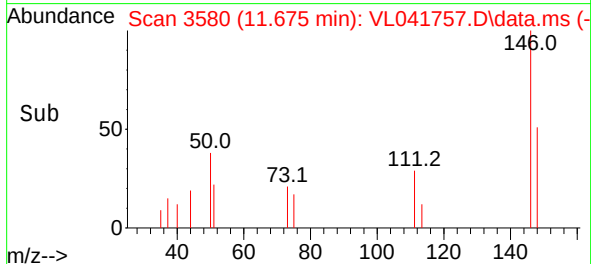
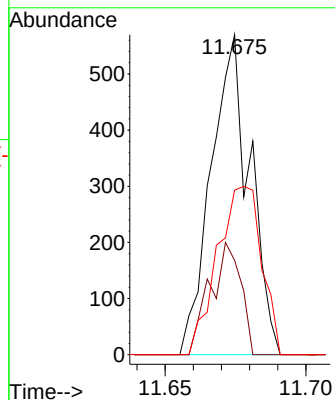
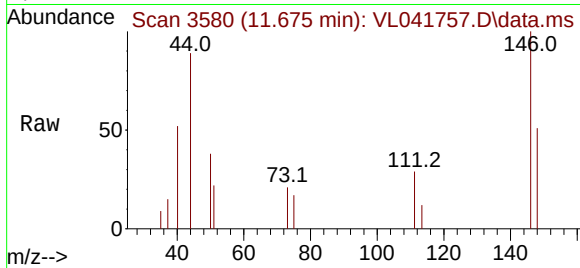




#77
1,2-Dichlorobenzene
Concen: 0.038 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.272 min
Lab File: VL041757.D
Acq: 16 Dec 2024 16:08

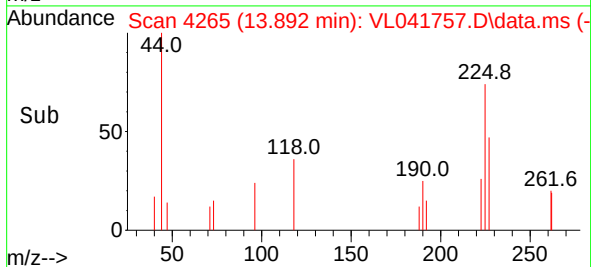
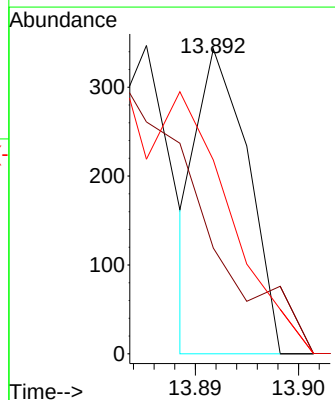
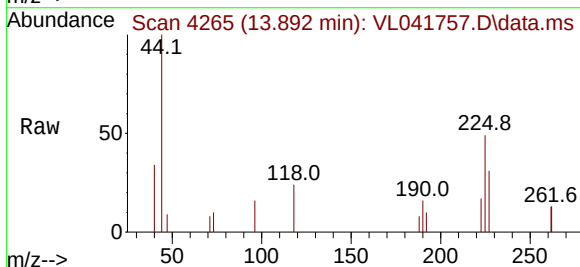
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

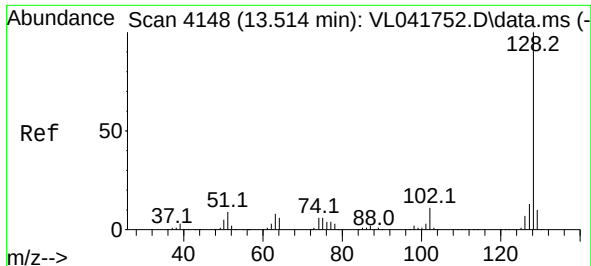
Tgt Ion:146 Resp: 547
Ion Ratio Lower Upper
146 100
111 27.6 24.8 74.3
148 59.8 31.8 95.4



#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

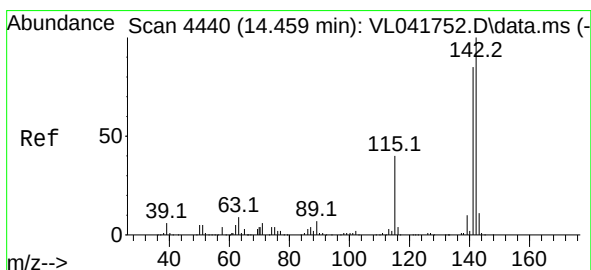
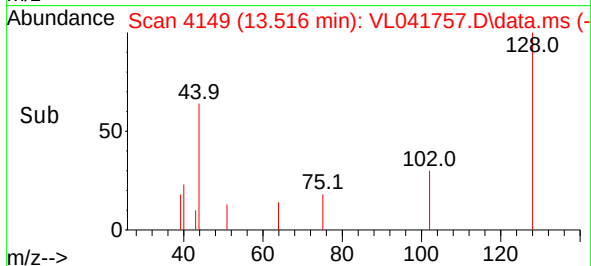
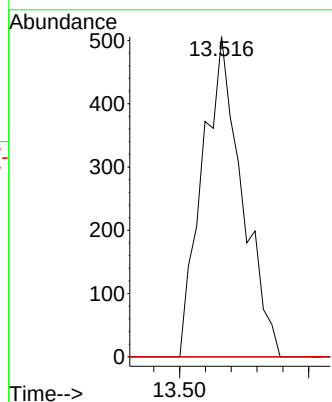
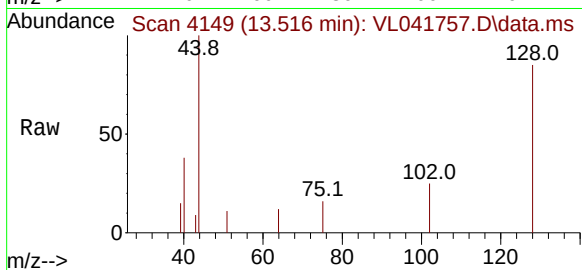
Tgt Ion:128 Resp: 540

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

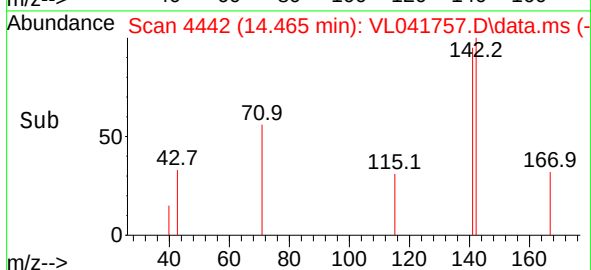
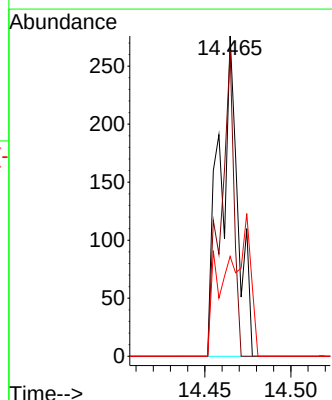
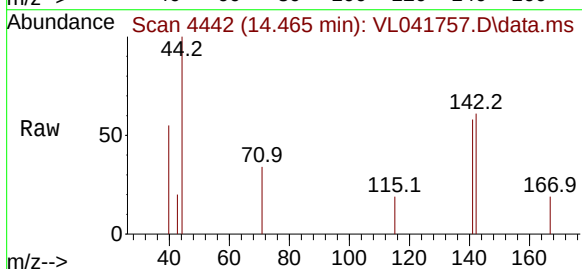
Tgt Ion:142 Resp: 206

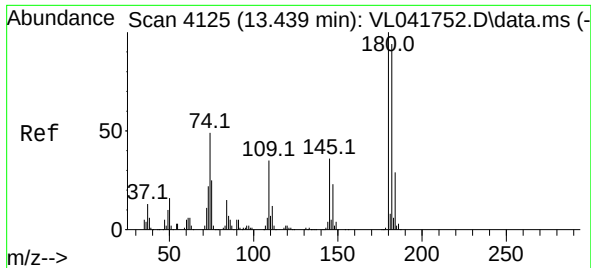
Ion Ratio Lower Upper

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

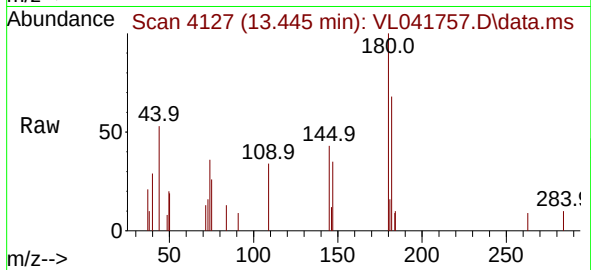
Acq: 16 Dec 2024 16:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



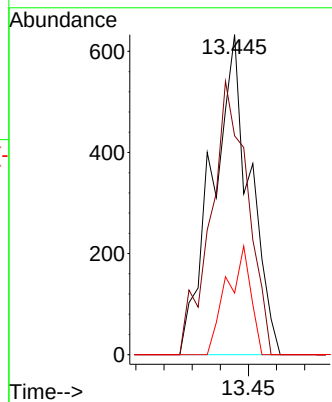
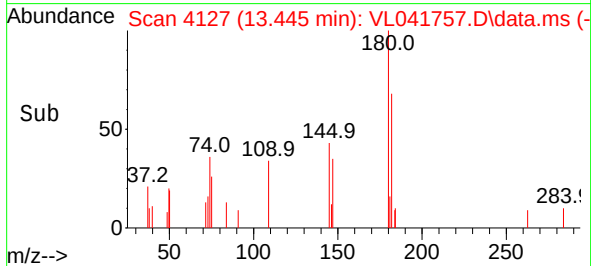
Tgt Ion:180 Resp: 586

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

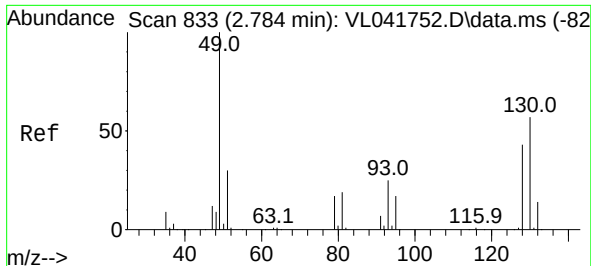
Quant Time: Dec 19 06:16:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

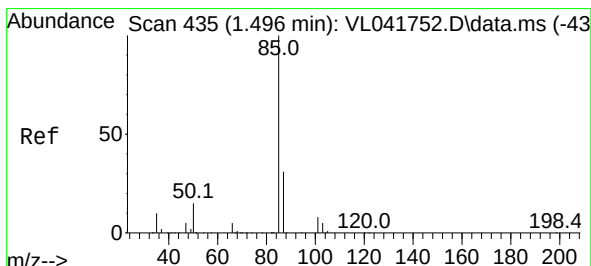
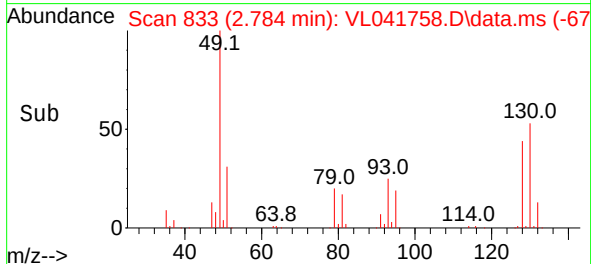
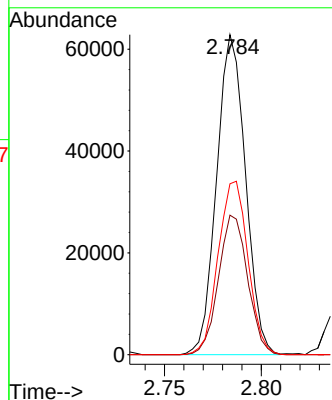
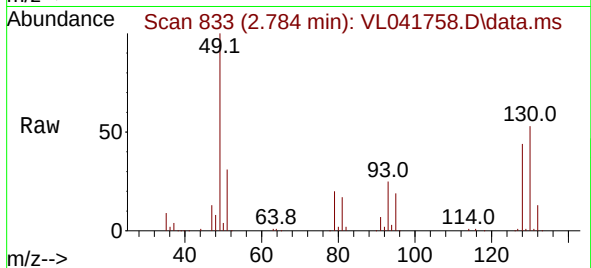




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

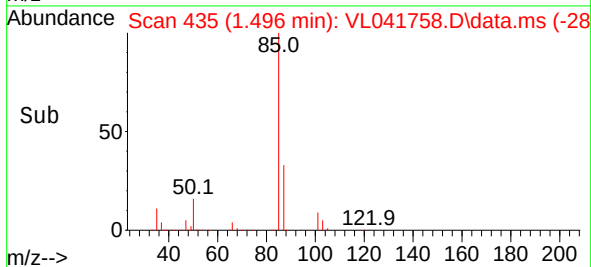
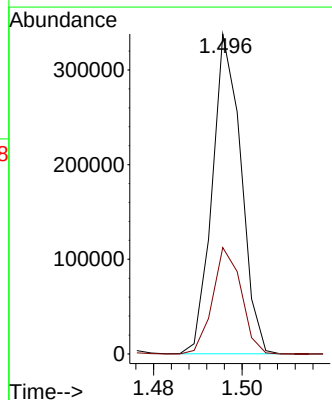
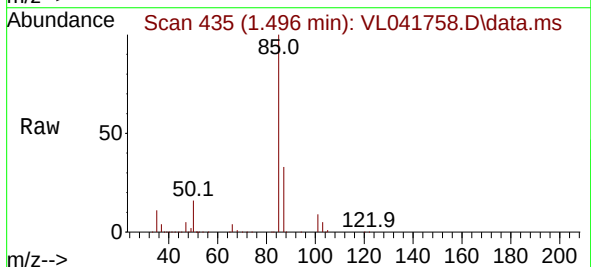
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

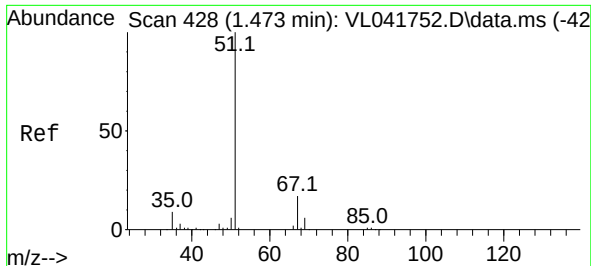
Tgt Ion: 49 Resp: 65186
 Ion Ratio Lower Upper
 49 100
 128 44.0 21.6 64.6
 130 56.0 28.3 85.0



#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

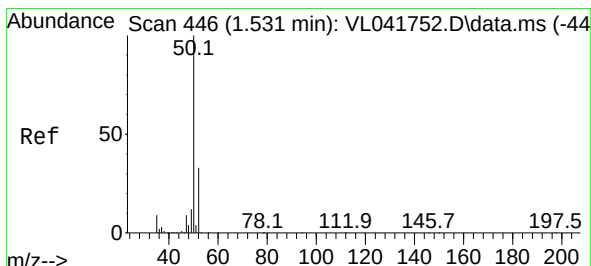
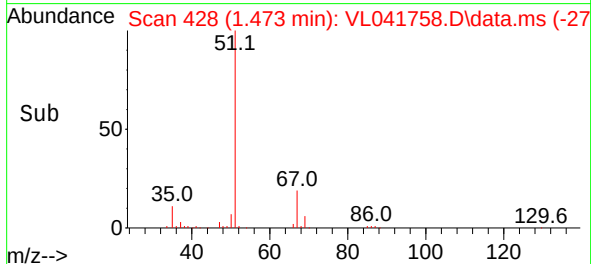
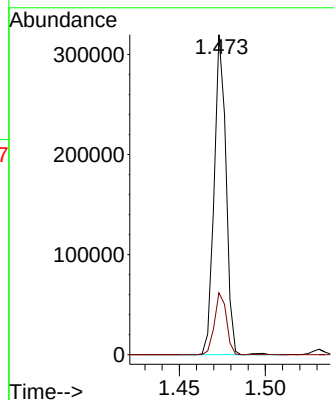
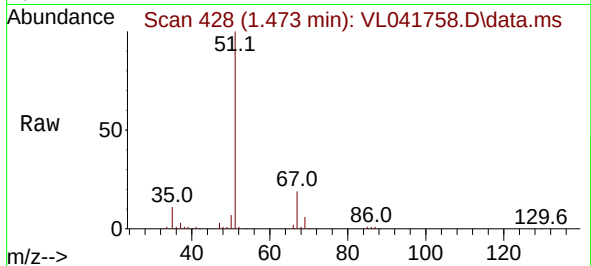




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

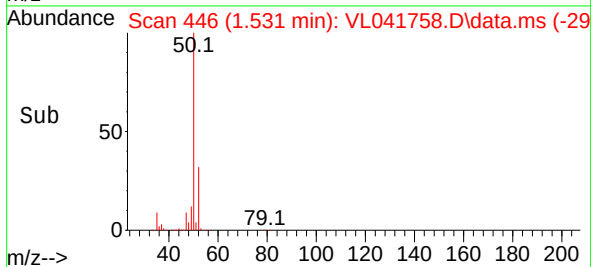
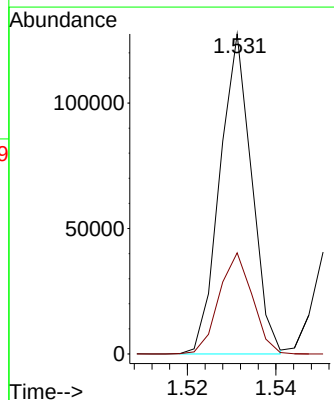
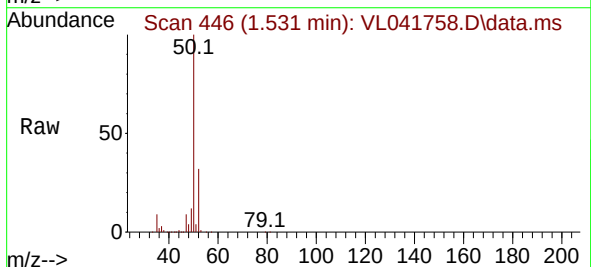
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

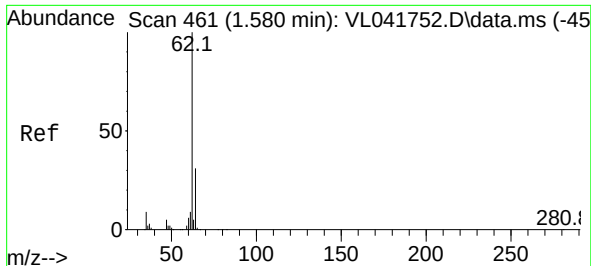
Tgt Ion: 51 Resp: 152455
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.4



#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# 4

Delta R.T. -0.003 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_1

ClientSampleId :

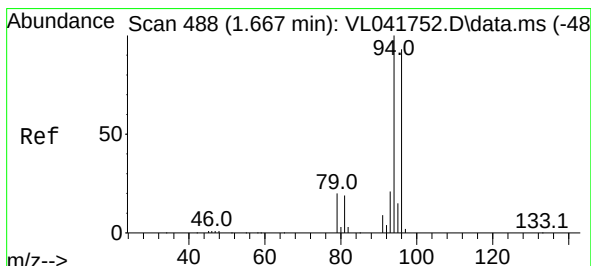
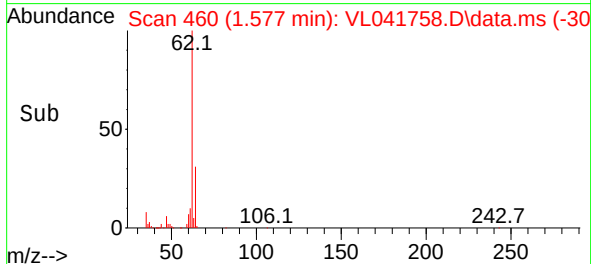
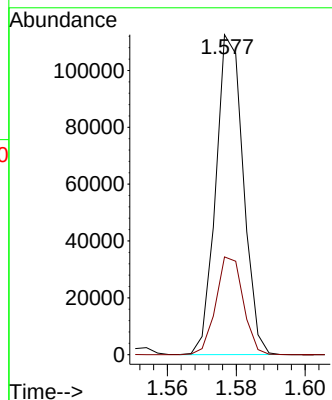
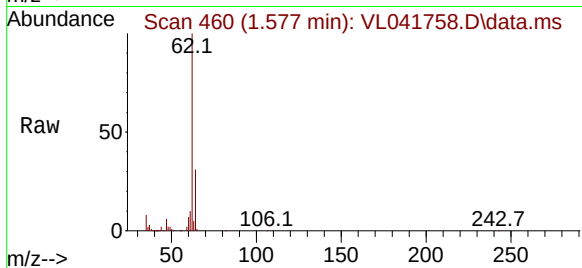
VSTDIC015

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

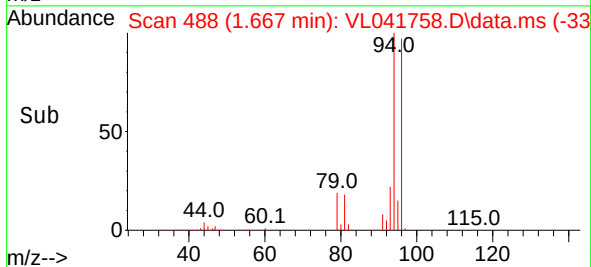
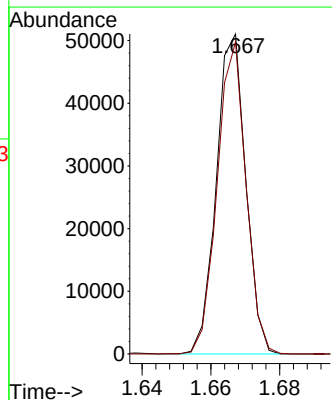
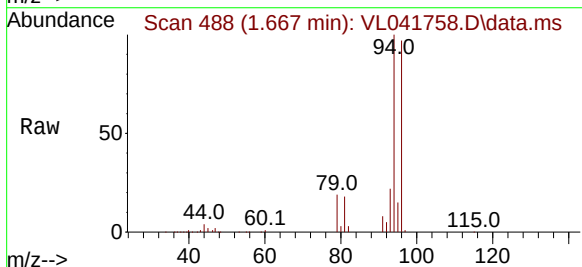
Acq: 16 Dec 2024 16:41

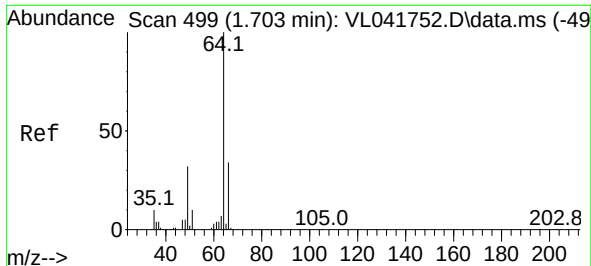
Tgt Ion: 94 Resp: 30345

Ion Ratio Lower Upper

94 100

96 97.3 74.7 112.1

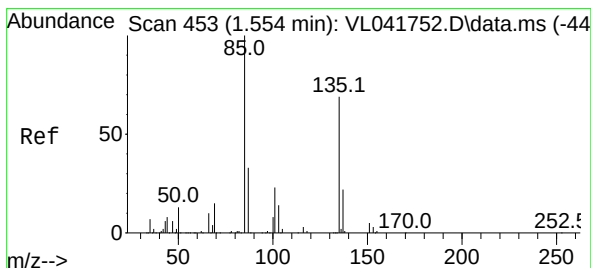
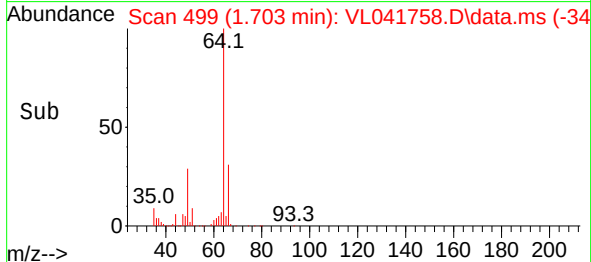
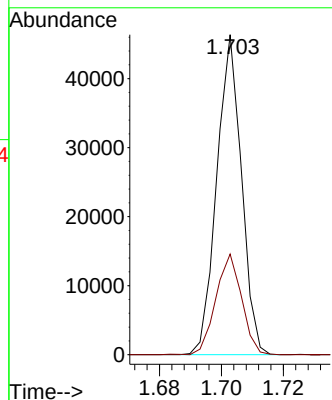
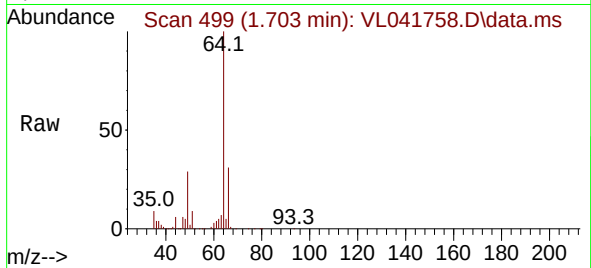




#7
Chloroethane
Concen: 14.442 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

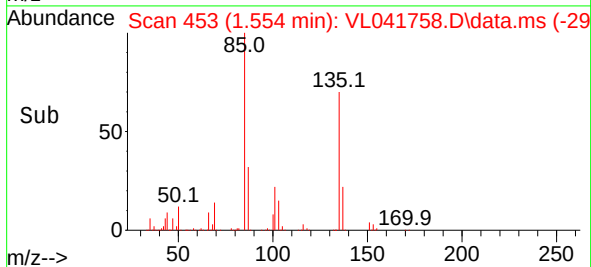
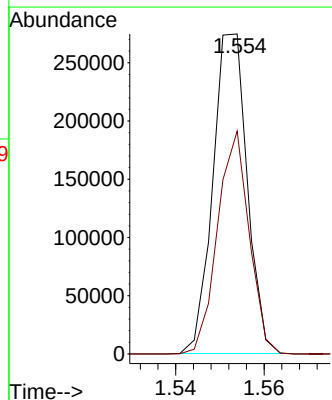
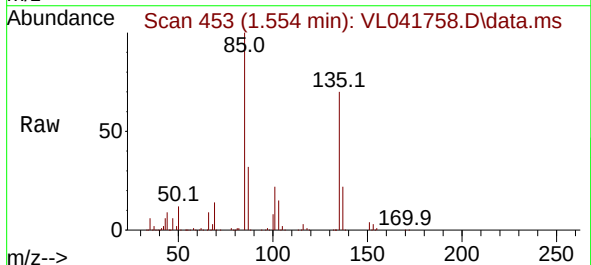
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

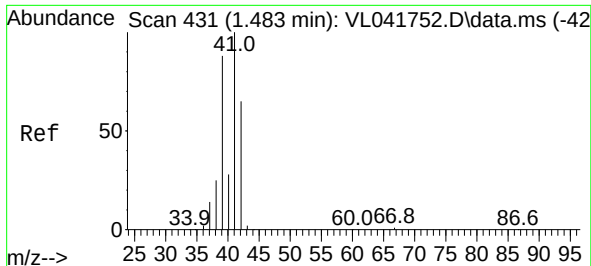
Tgt Ion: 64 Resp: 25650
Ion Ratio Lower Upper
64 100
66 31.5 27.5 41.3



#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 :

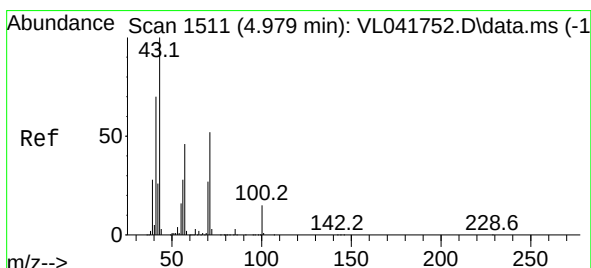
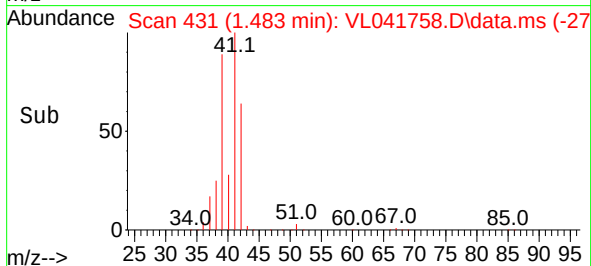
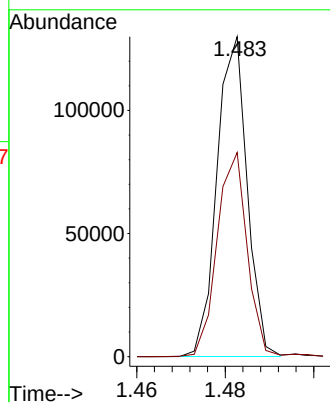
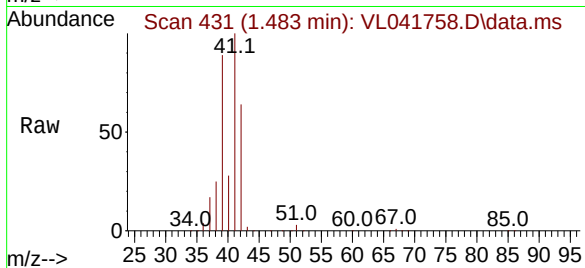
VSTDIC015

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

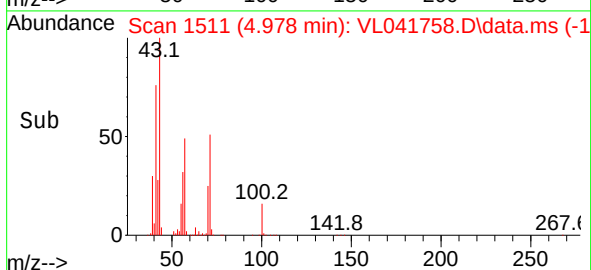
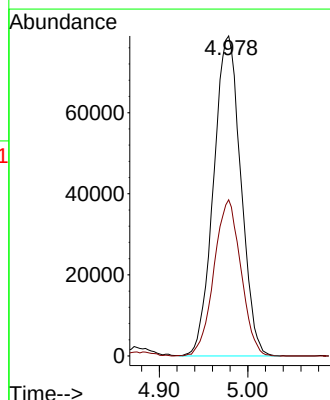
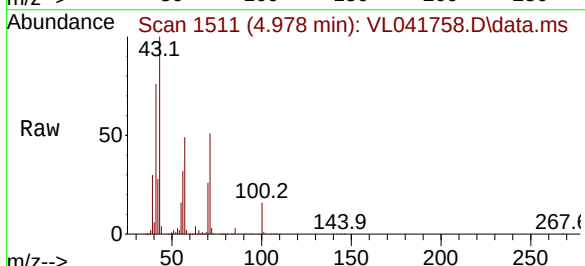
Acq: 16 Dec 2024 16:41

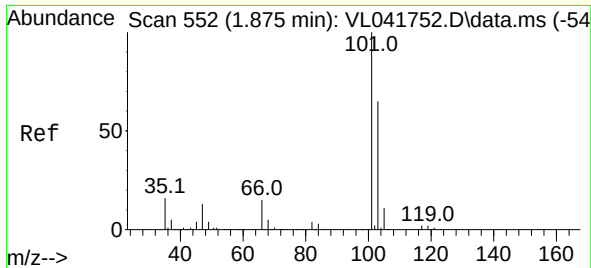
Tgt Ion: 43 Resp: 168804

Ion Ratio Lower Upper

43 100

57 48.2 38.5 57.7

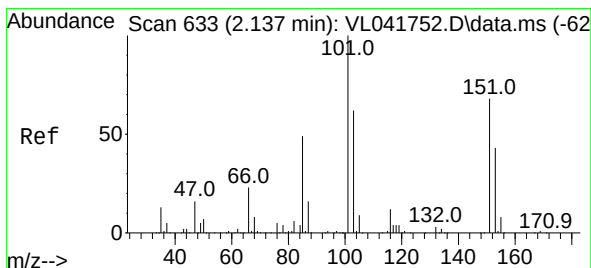
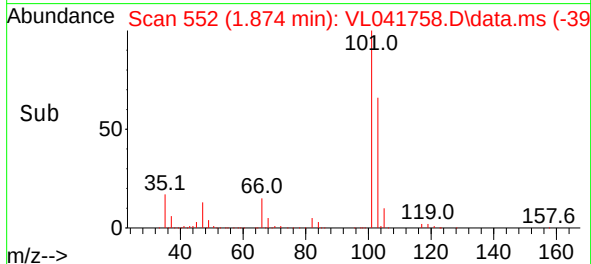
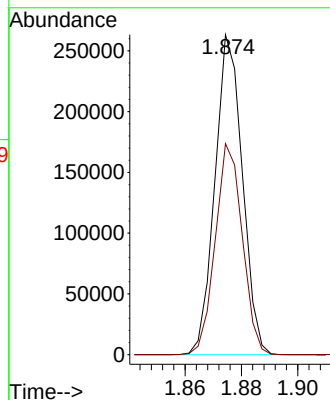
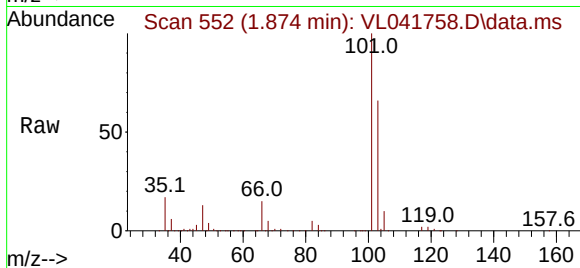




#11
 Trichlorofluoromethane
 Concen: 14.446 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

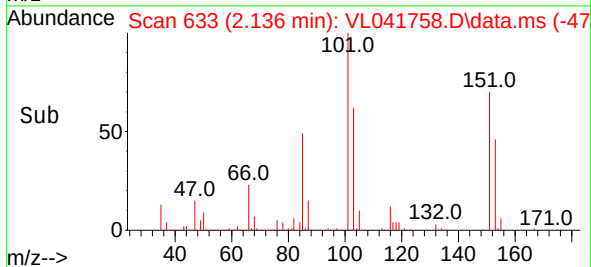
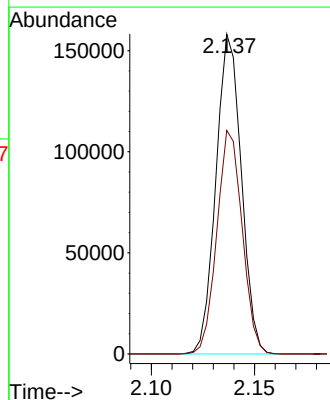
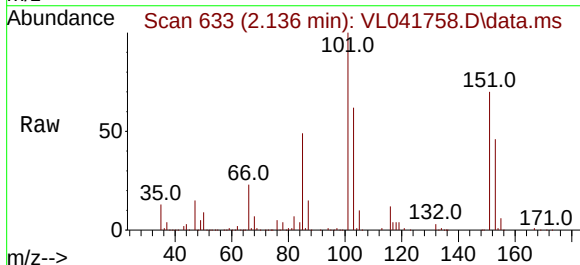
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

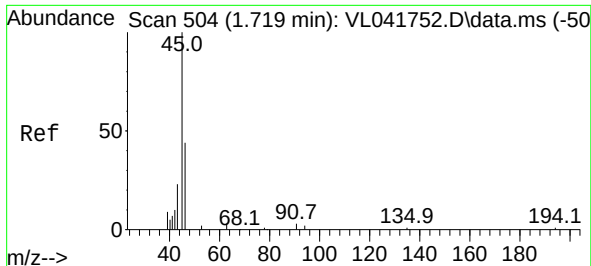
Tgt Ion:101 Resp: 177984
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.8 77.8



#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 :

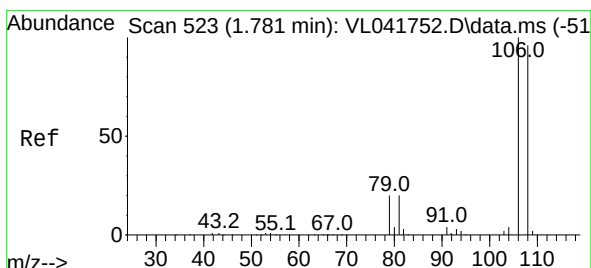
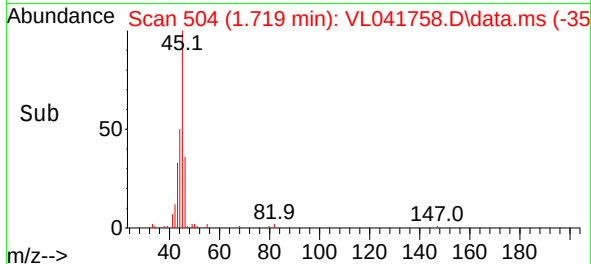
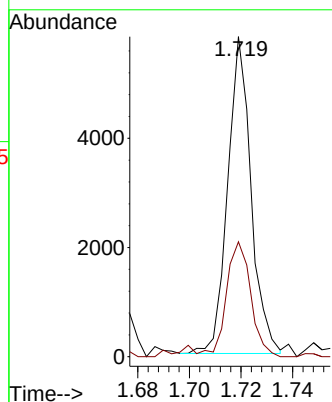
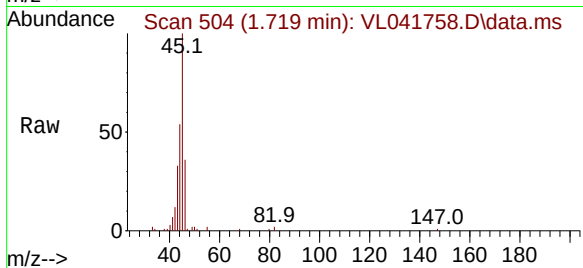
VSTDIC015

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

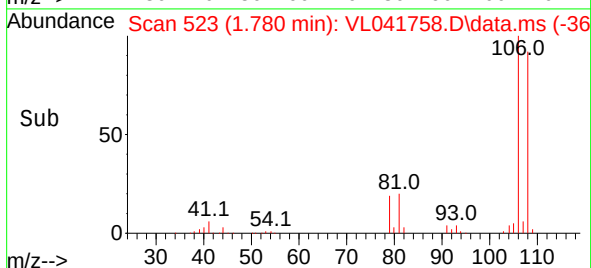
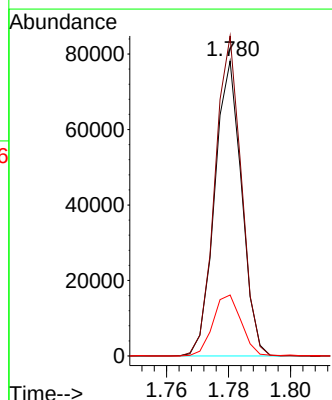
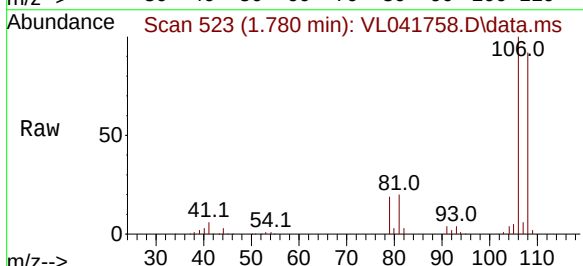
Tgt Ion: 108 Resp: 47132

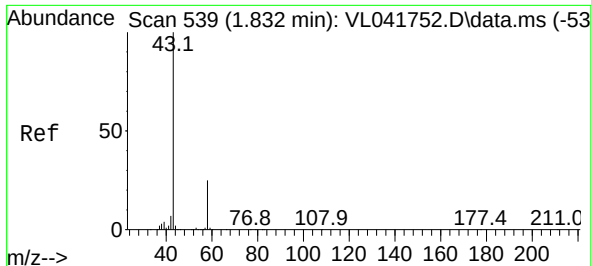
Ion Ratio Lower Upper

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 :

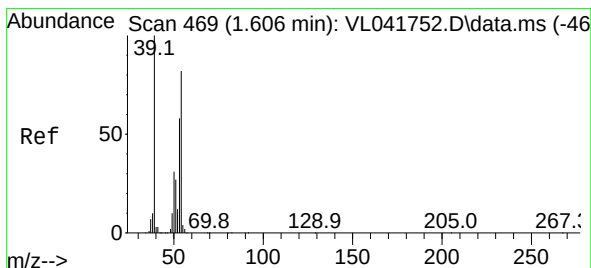
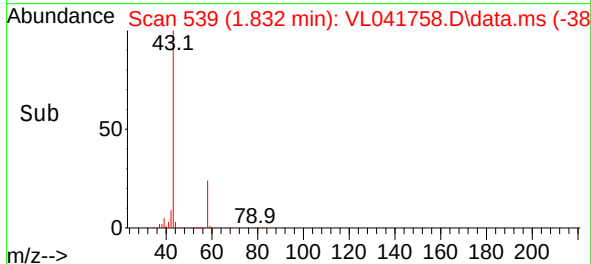
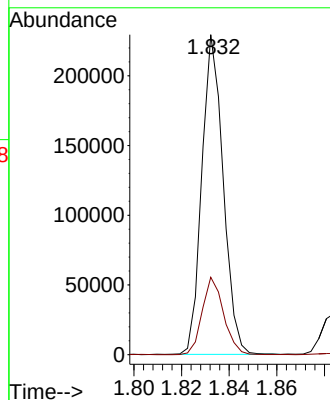
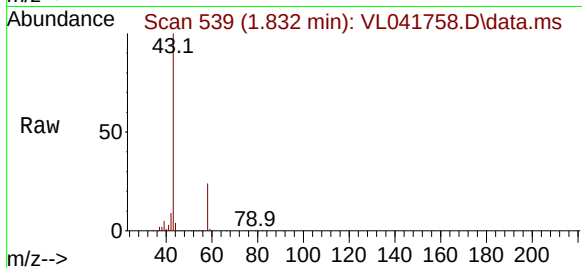
VSTDIC015

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

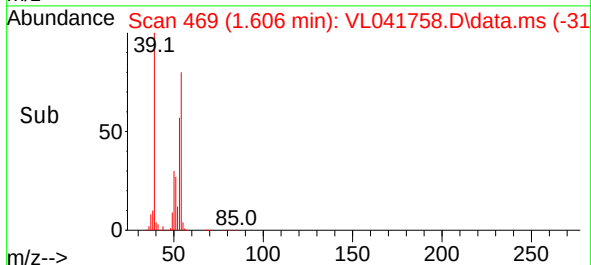
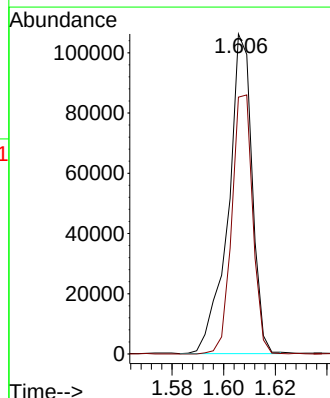
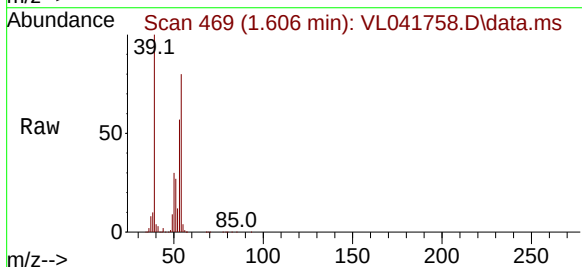
Acq: 16 Dec 2024 16:41

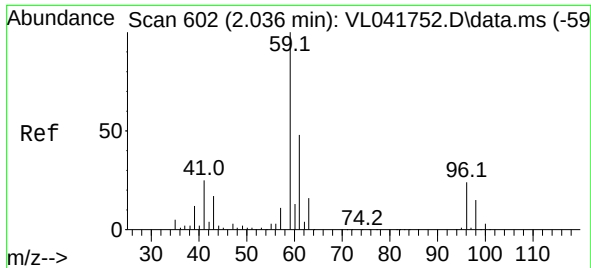
Tgt Ion: 39 Resp: 68311

Ion Ratio Lower Upper

39 100

54 71.3 58.4 87.6

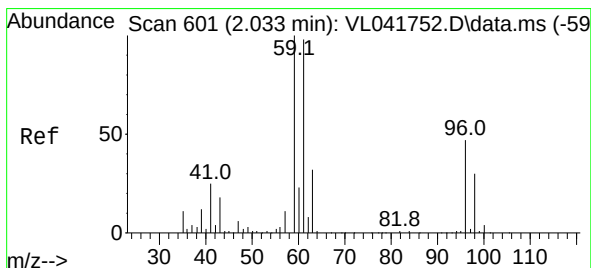
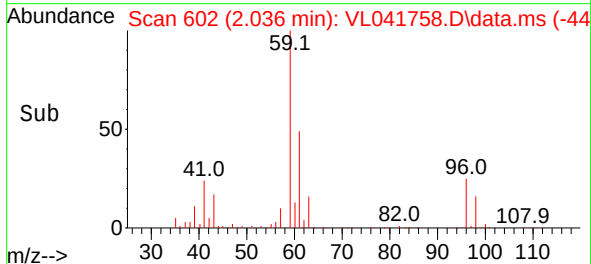
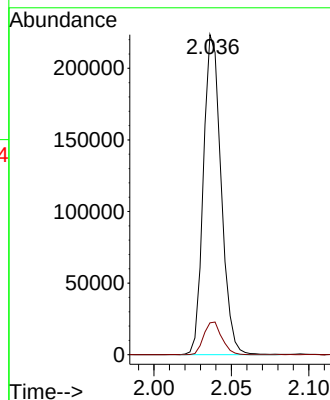
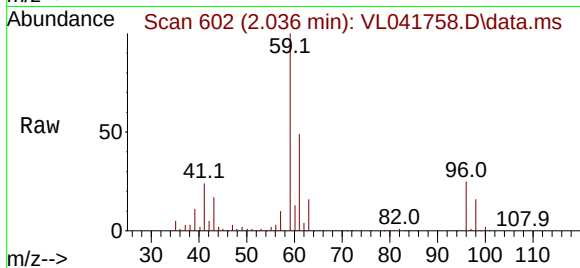




#17
tert-Butyl alcohol
Concen: 14.140 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

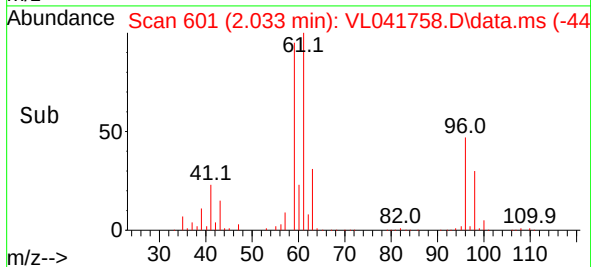
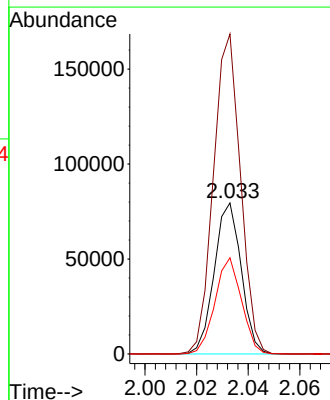
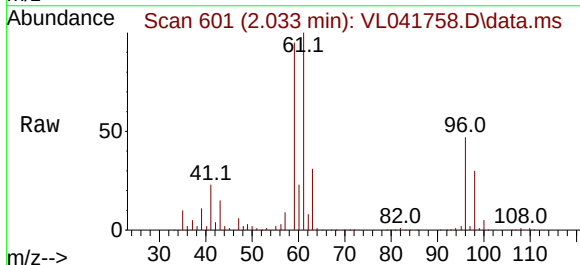
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

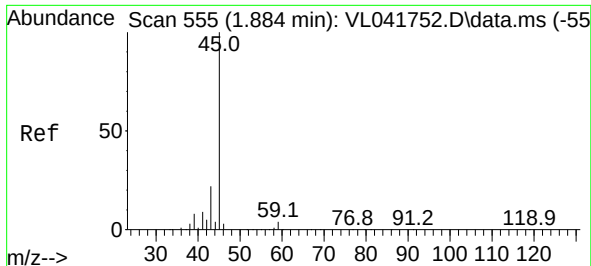
Tgt Ion: 59 Resp: 177908
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0



#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 :

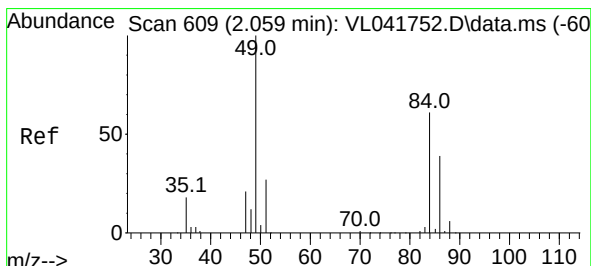
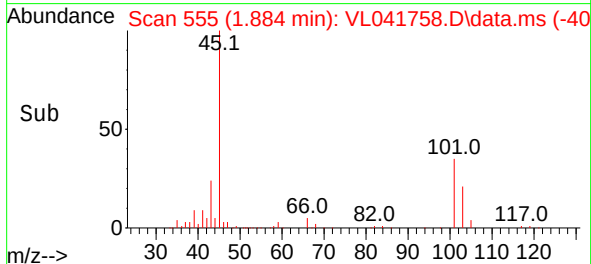
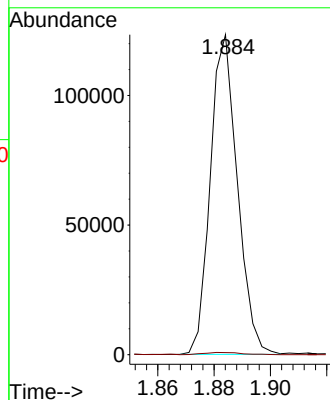
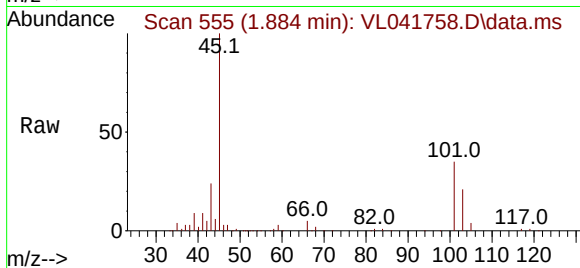
VSTDIC015

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

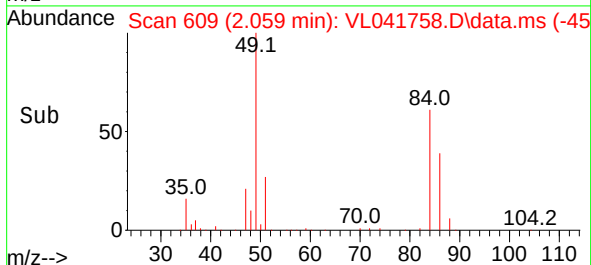
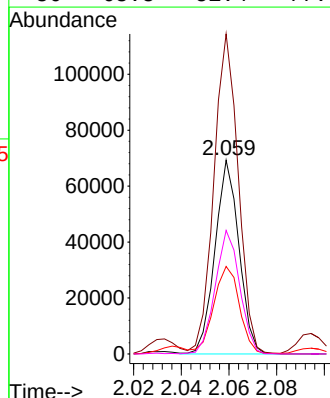
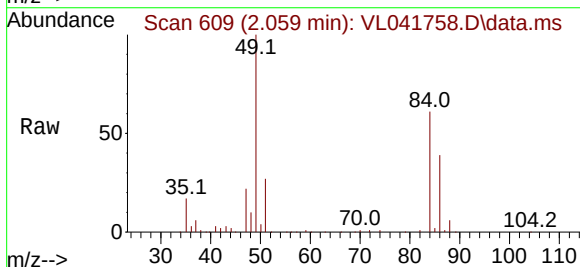
Ion Ratio Lower Upper

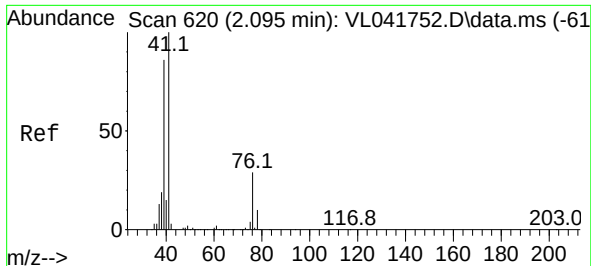
84 100

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

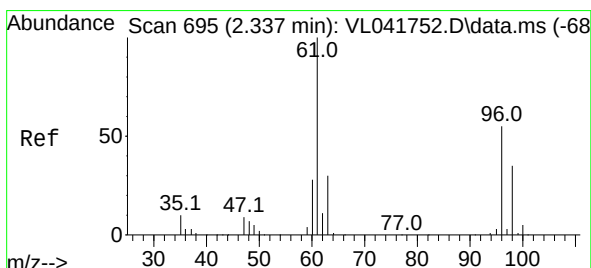
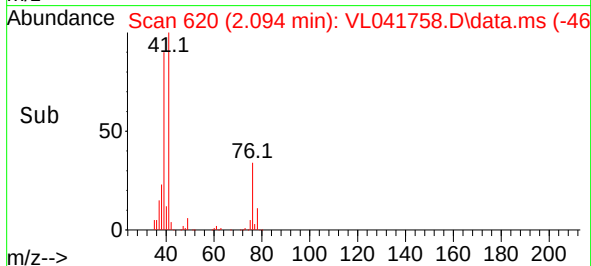
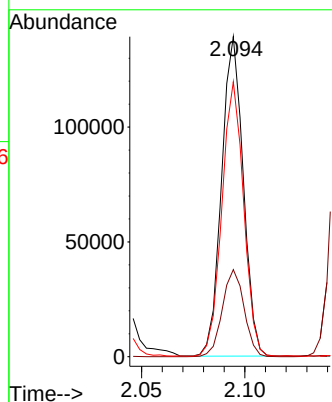
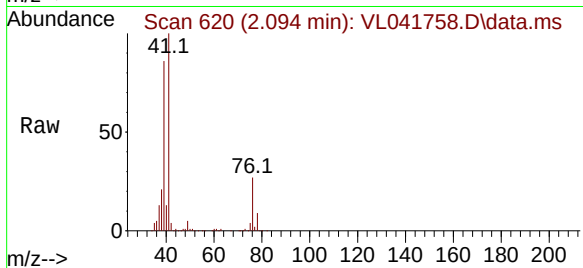
Tgt Ion: 41 Resp: 101528

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

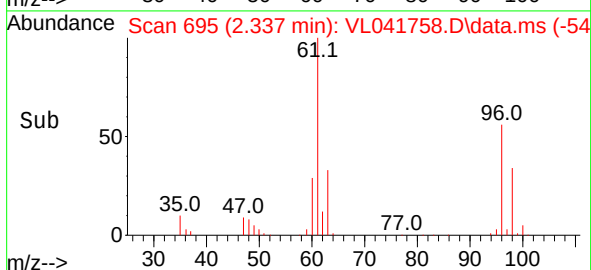
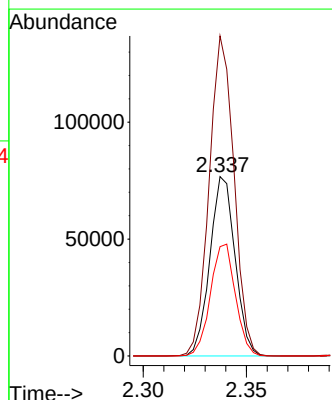
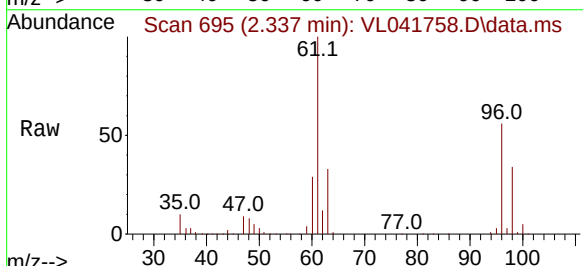
Tgt Ion: 96 Resp: 65029

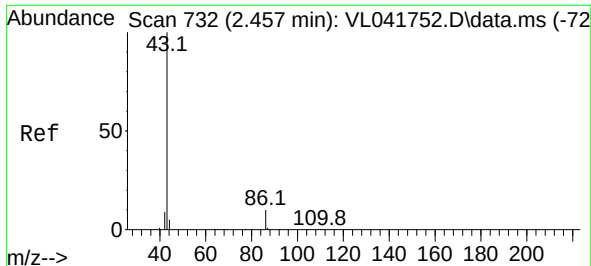
Ion Ratio Lower Upper

96 100

61 178.4 146.3 219.5

98 60.9 50.8 76.2

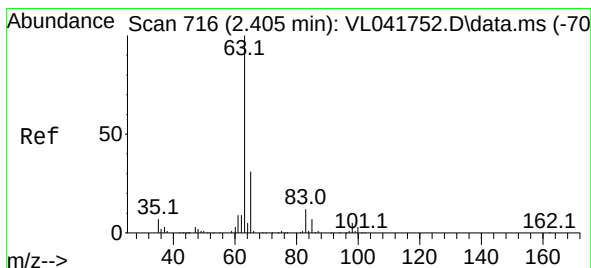
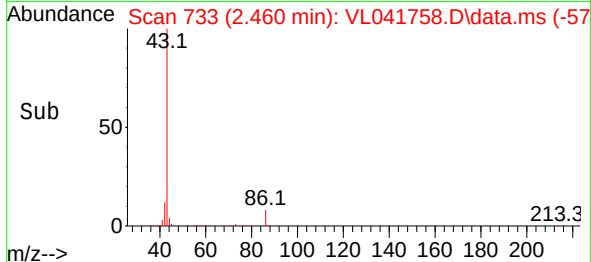
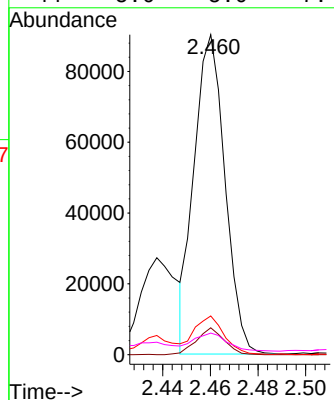
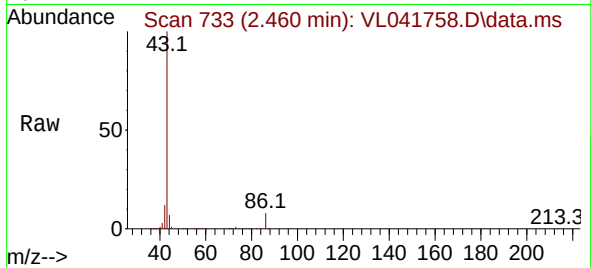




#23
 Vinyl Acetate
 Concen: 14.661 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

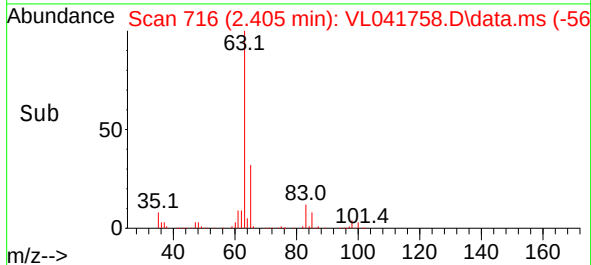
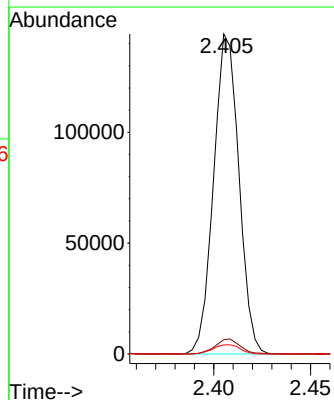
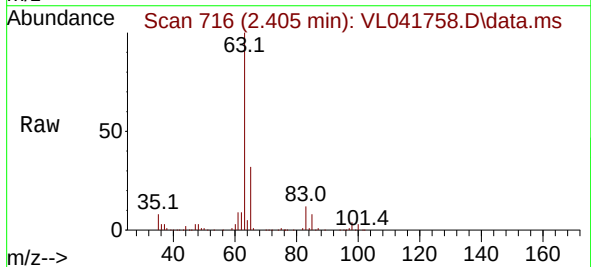
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

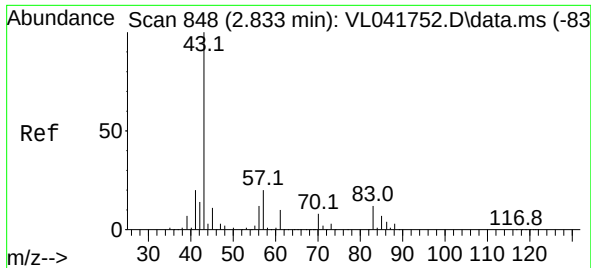
Tgt Ion:	43	Resp:	80795
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.6	10.0
42	11.8	8.2	12.2
44	5.6	5.0	7.4



#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

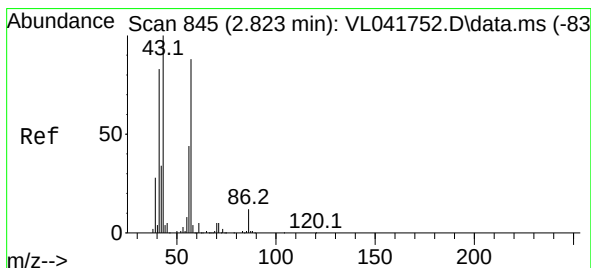
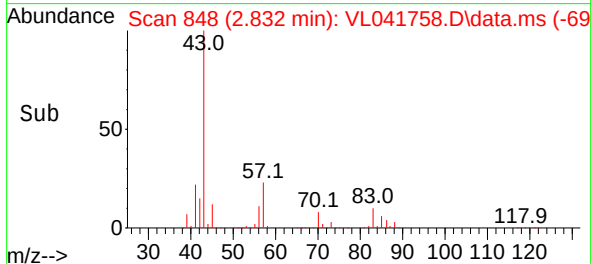
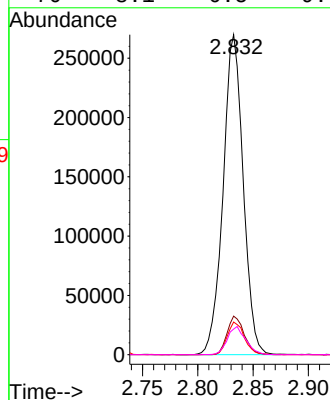
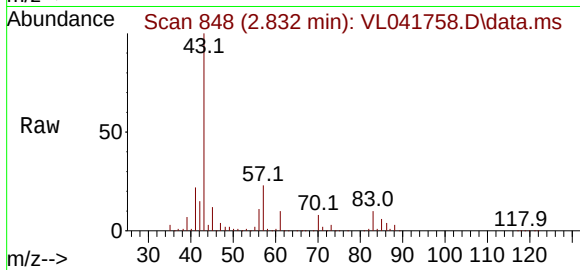




#25
Ethyl Acetate
Concen: 14.402 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

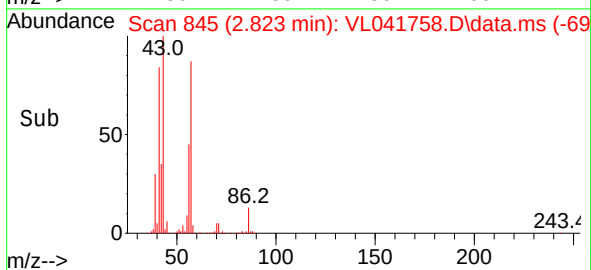
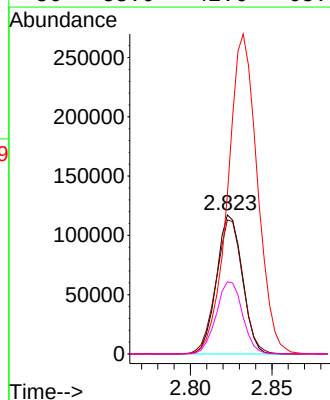
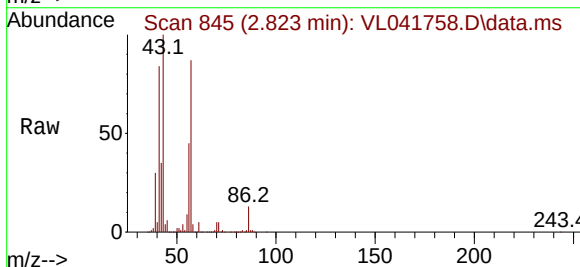
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

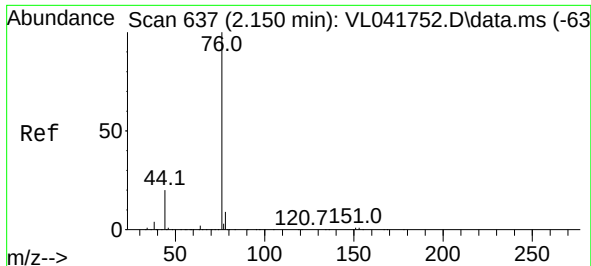
Tgt Ion:	43	Resp:	341429
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.1	12.1
61	8.7	7.0	10.6
70	8.1	6.5	9.7



#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

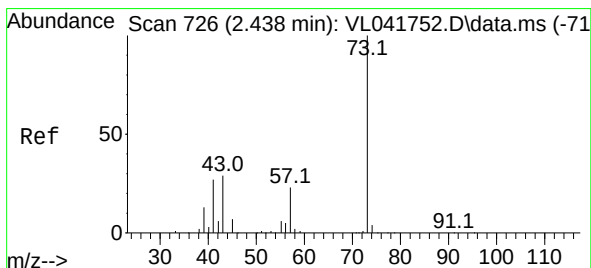
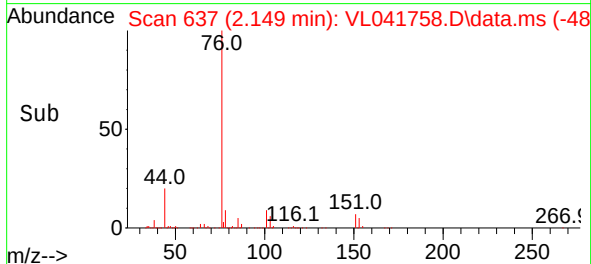
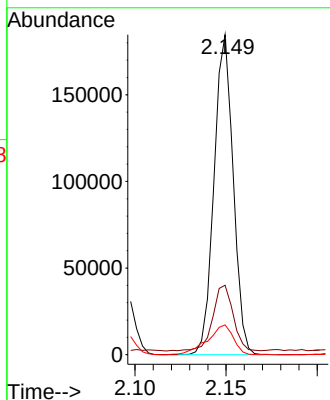
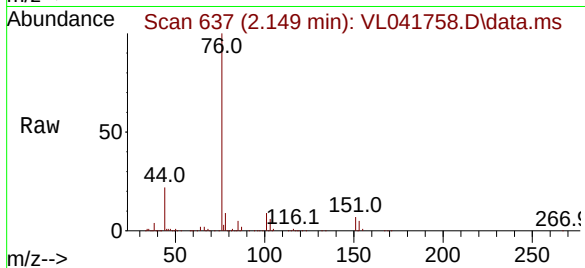




#27
Carbon Disulfide
Concen: 16.726 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

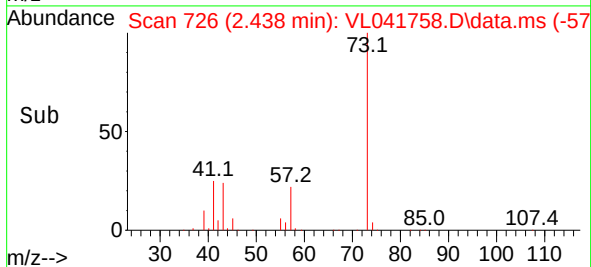
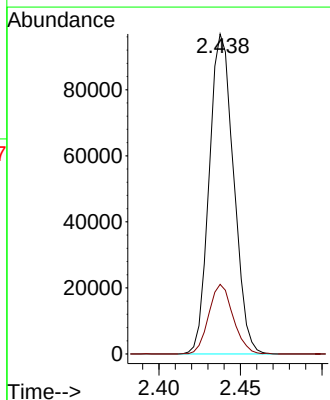
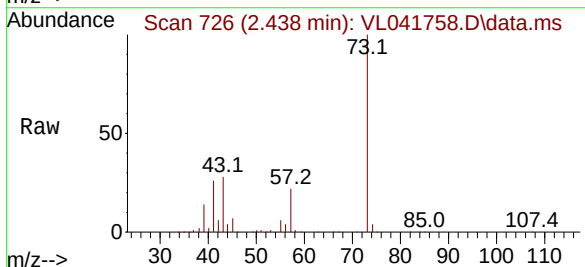
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

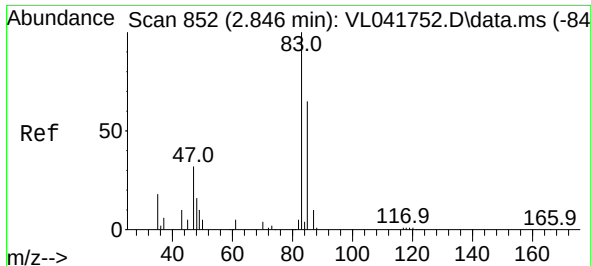
Tgt Ion: 76 Resp: 134963
Ion Ratio Lower Upper
76 100
44 22.4 17.6 26.4
78 12.5 10.2 15.4



#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 :

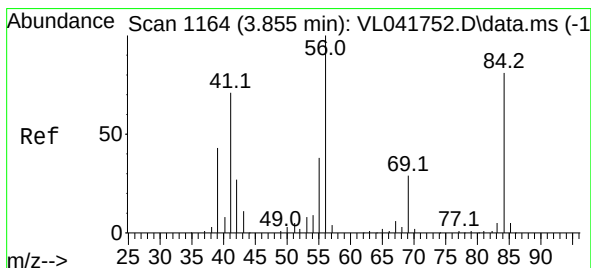
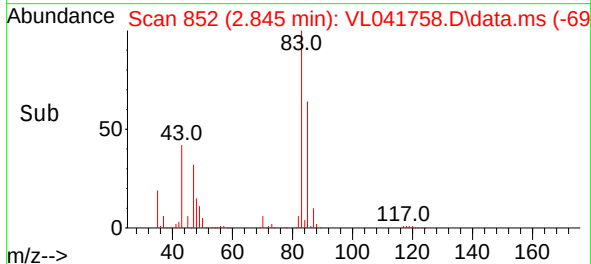
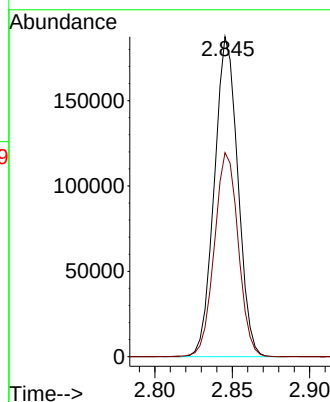
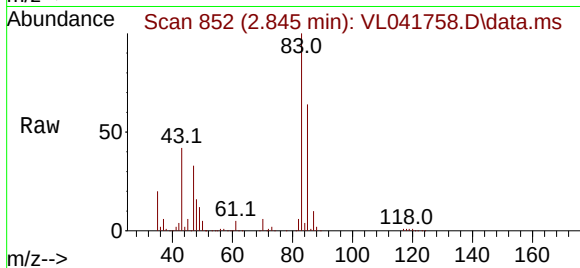
VSTDIC015

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

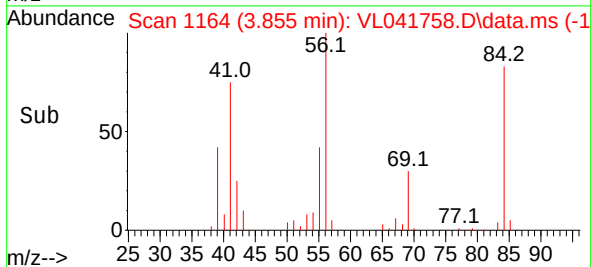
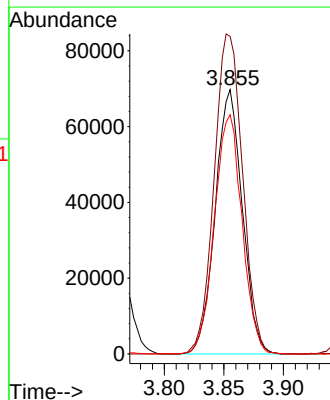
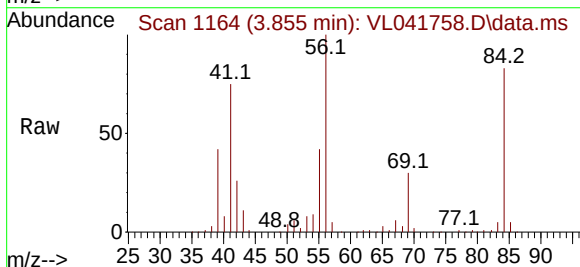
Tgt Ion: 84 Resp: 110448

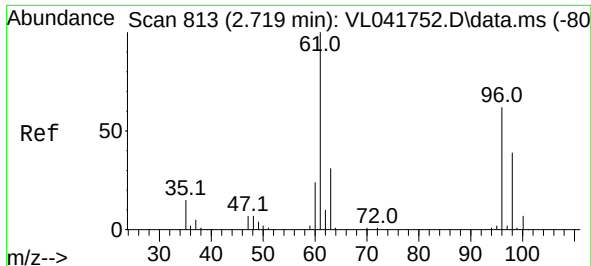
Ion Ratio Lower Upper

84 100

56 126.9 102.3 153.5

41 92.2 74.0 111.0

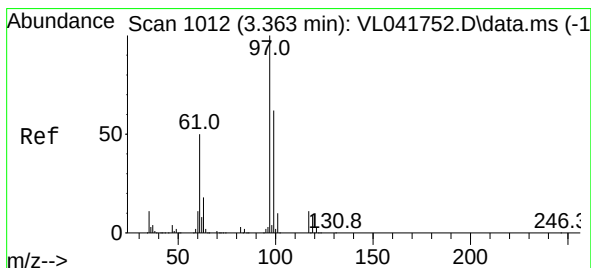
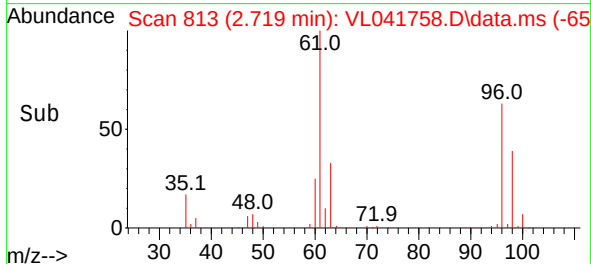
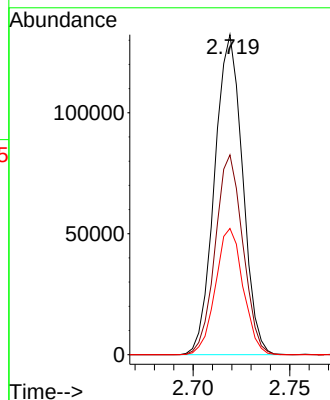
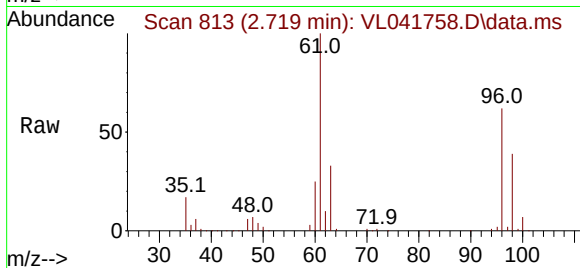




#31
 cis-1,2-Dichloroethene
 Concen: 14.355 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041758.D
 Acq: 16 Dec 2024 16:41

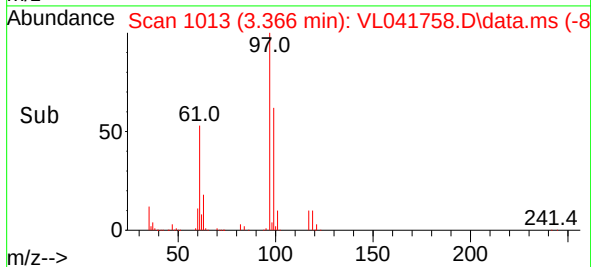
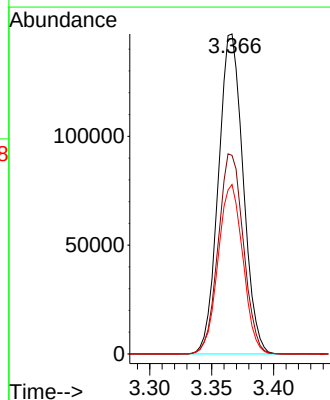
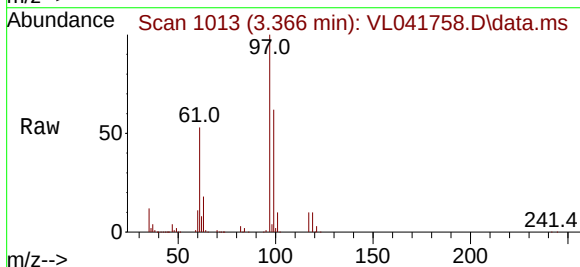
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

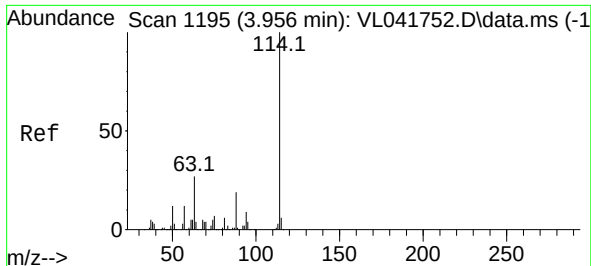
Tgt Ion: 61 Resp: 132821
 Ion Ratio Lower Upper
 61 100
 96 62.4 49.7 74.5
 98 39.4 30.8 46.2



#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

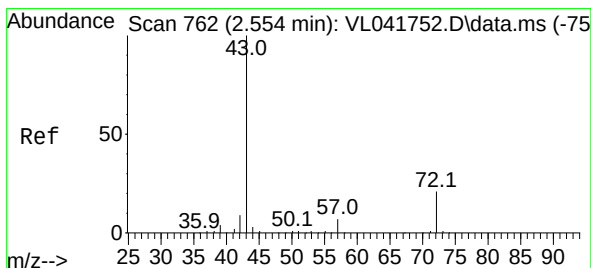
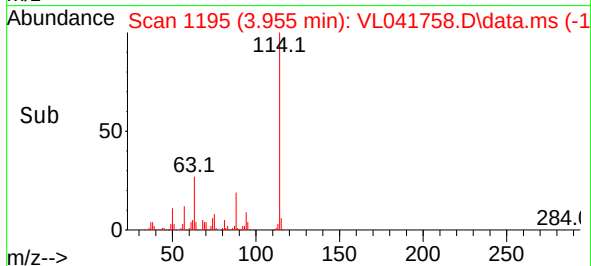
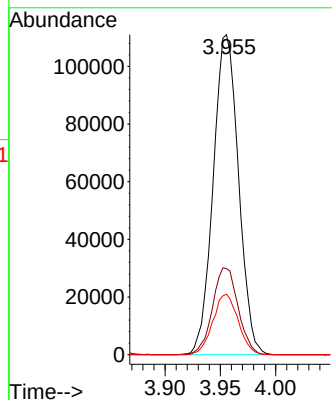
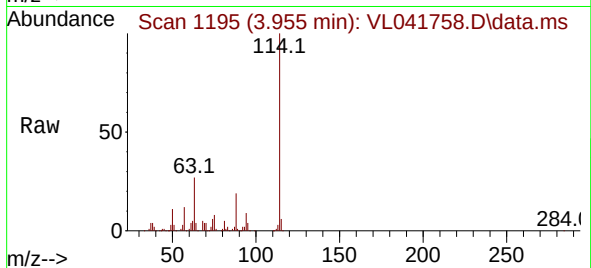
Tgt Ion:114 Resp: 176856

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

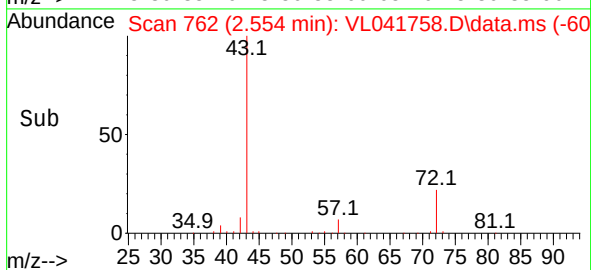
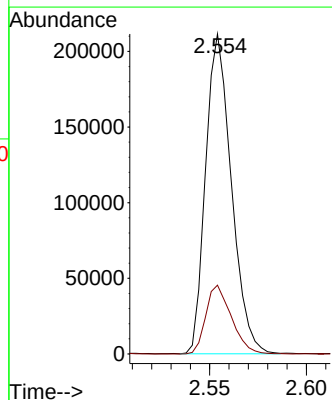
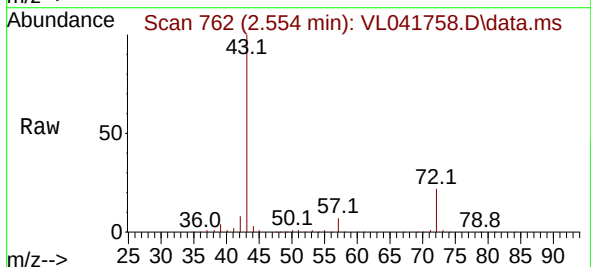
Acq: 16 Dec 2024 16:41

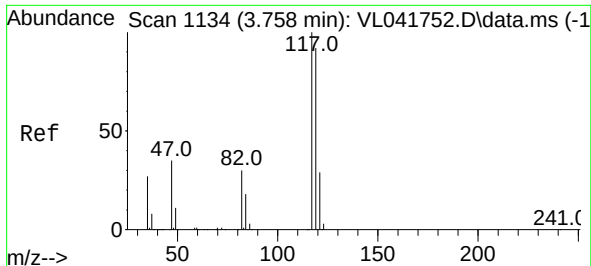
Tgt Ion: 43 Resp: 195439

Ion Ratio Lower Upper

43 100

72 21.4 16.8 25.2

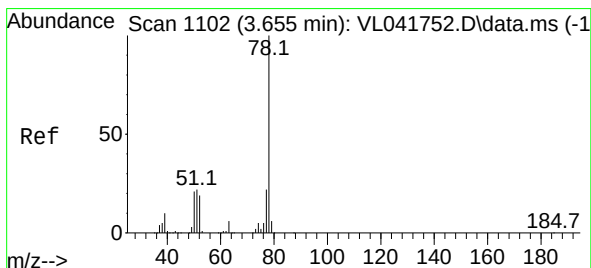
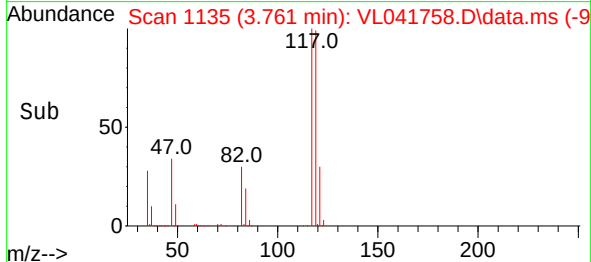
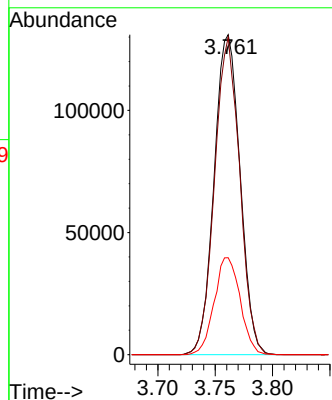
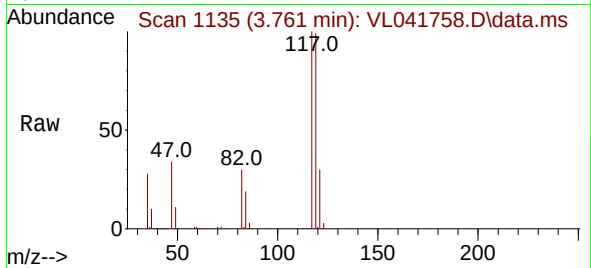




#35
Carbon Tetrachloride
Concen: 16.428 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

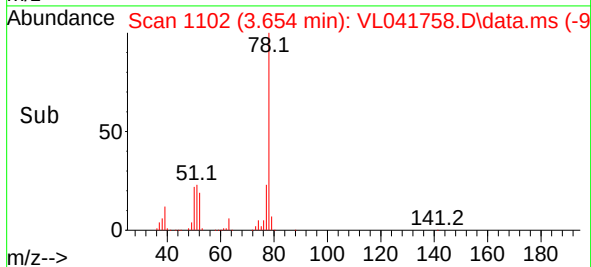
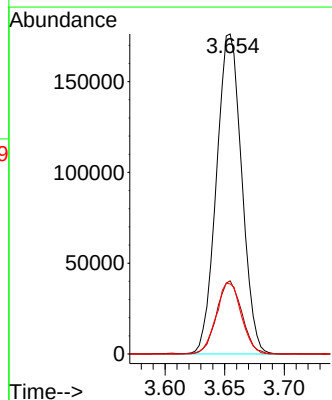
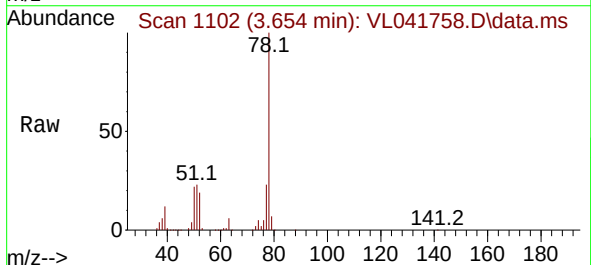
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

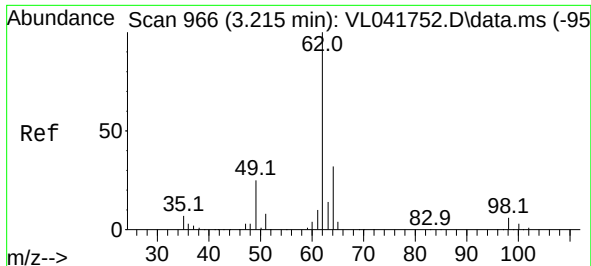
Tgt Ion:117 Resp: 206252
Ion Ratio Lower Upper
117 100
119 99.2 73.7 110.5
121 30.3 23.0 34.4



#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# 9

Delta R.T. -0.000 min

Lab File: VL041758.D

Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

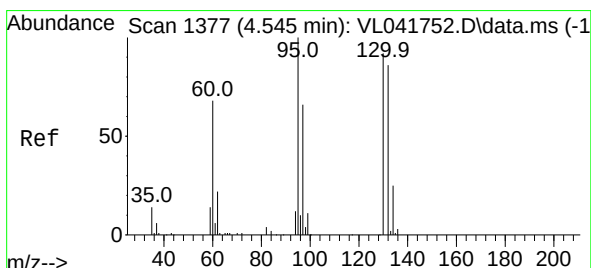
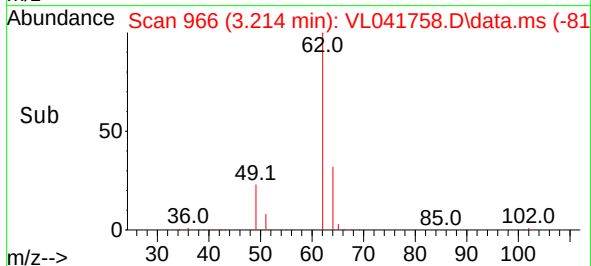
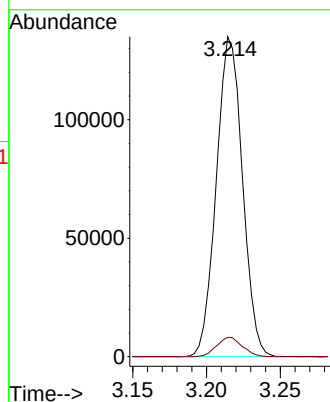
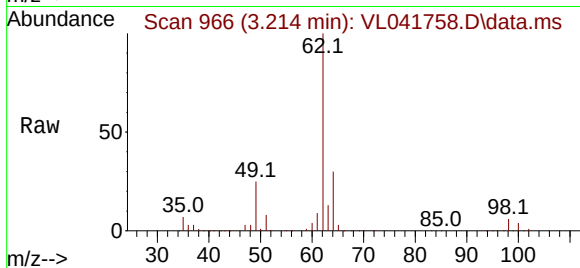
VSTDIC015

Tgt Ion: 62 Resp: 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

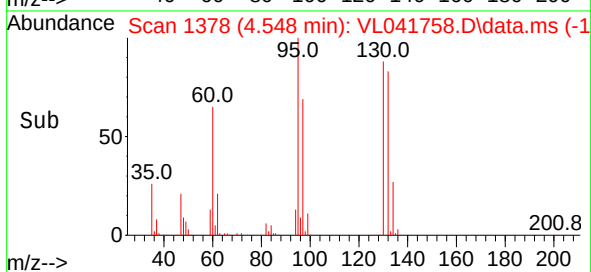
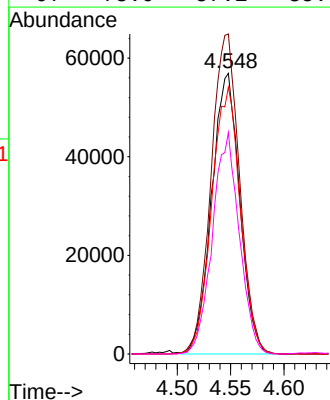
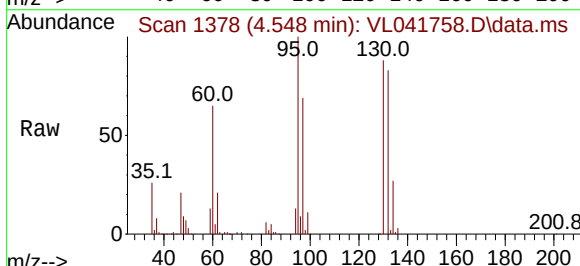
Ion Ratio Lower Upper

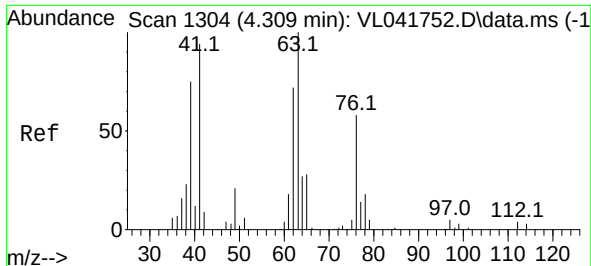
130 100

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

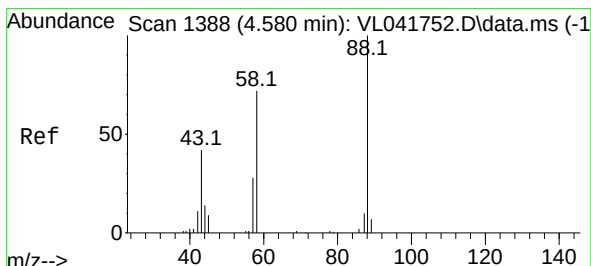
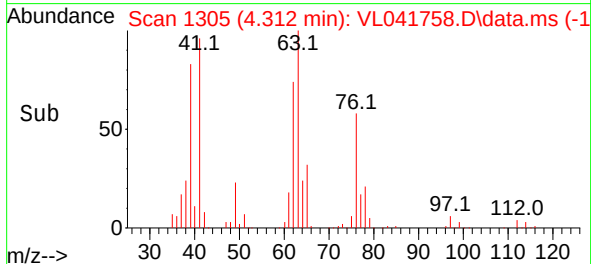
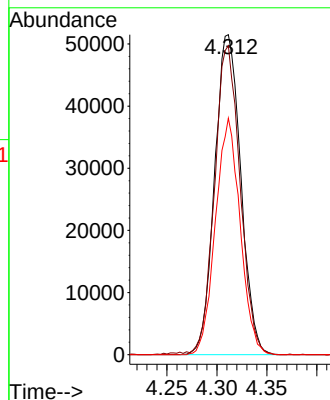
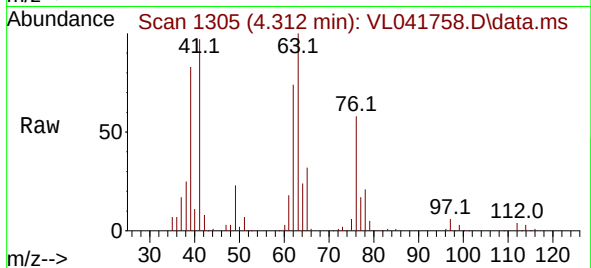
Tgt Ion: 63 Resp: 93624

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

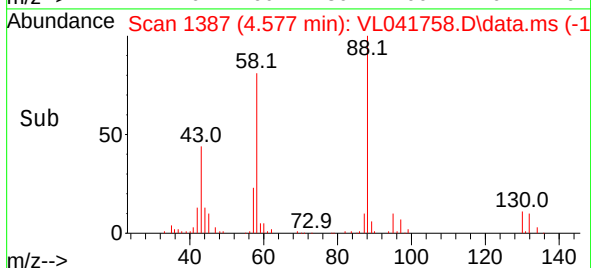
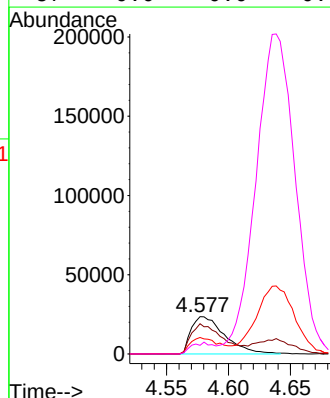
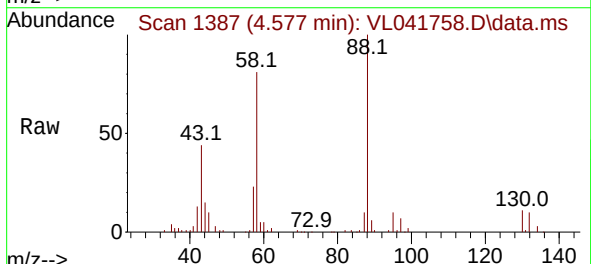
Ion Ratio Lower Upper

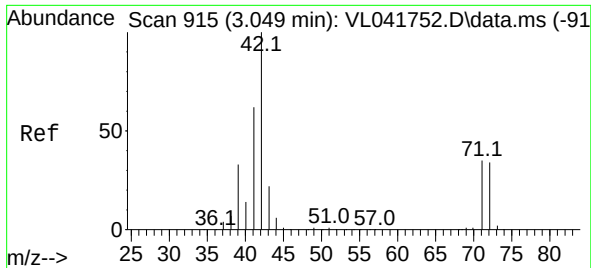
88 100

58 77.8 61.0 91.6

43 42.4 29.4 44.0

57 0.0 0.0 0.0

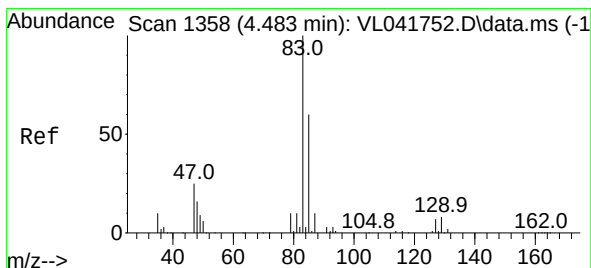
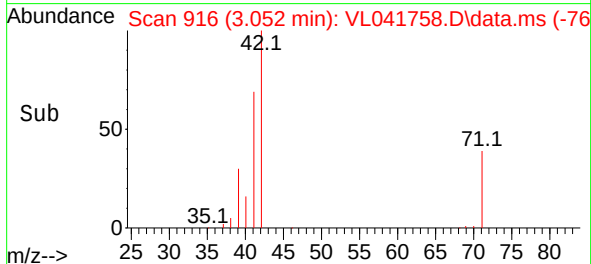
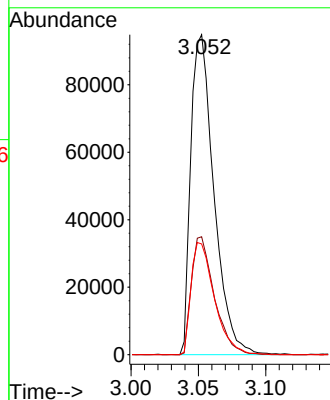
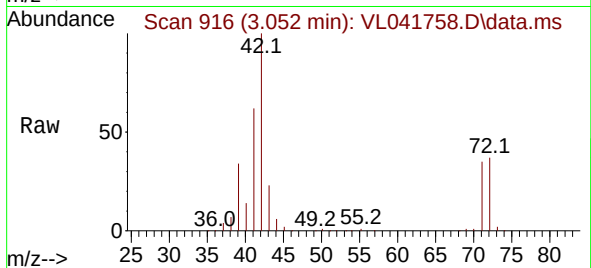




#41
Tetrahydrofuran
Concen: 14.254 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

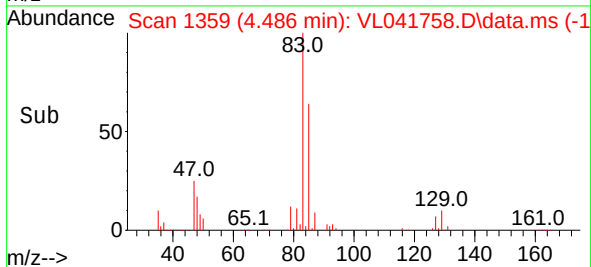
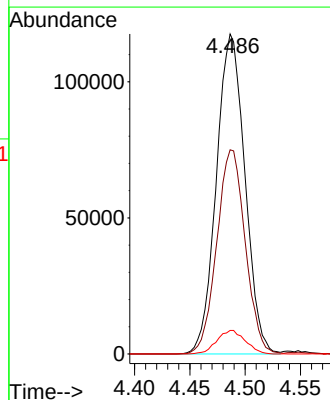
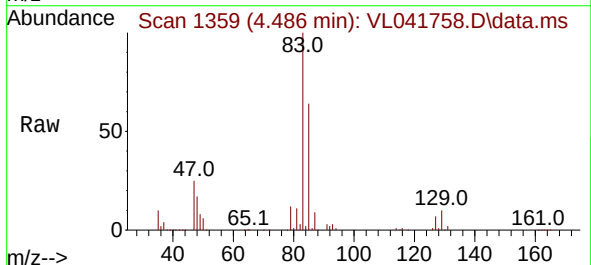
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

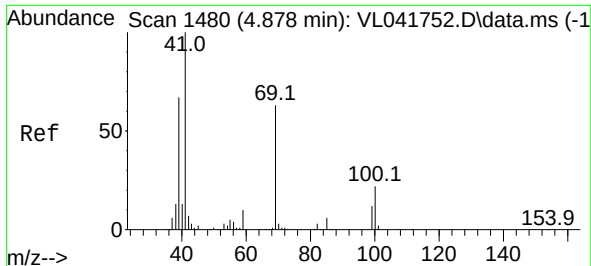
Tgt Ion: 42 Resp: 113618
Ion Ratio Lower Upper
42 100
72 36.4 29.1 43.7
71 35.3 28.4 42.6



#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

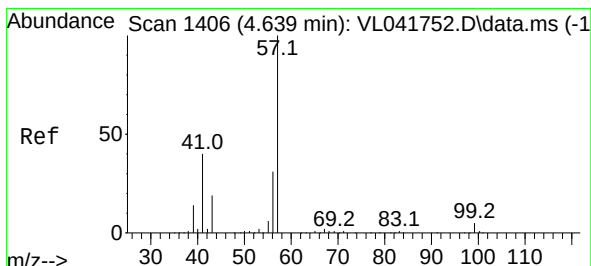
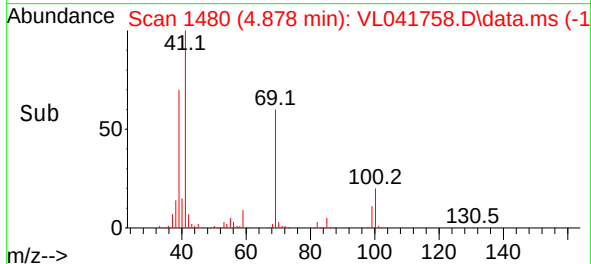
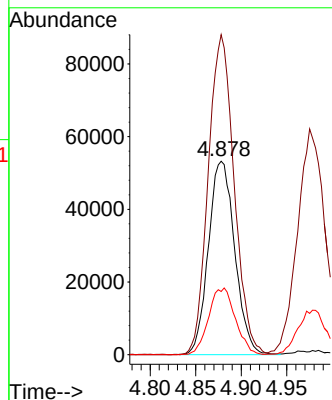
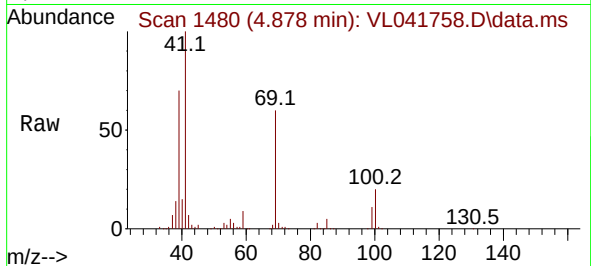




#43
Methyl Methacrylate
Concen: 15.374 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

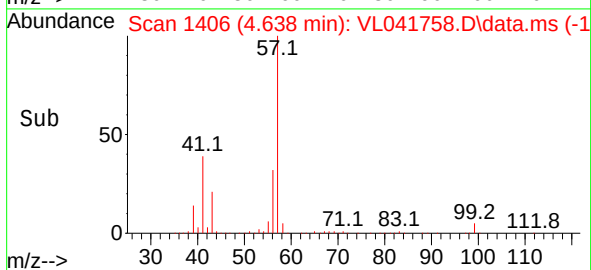
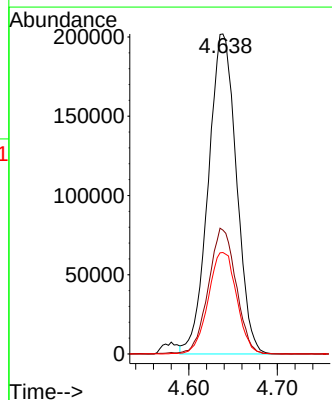
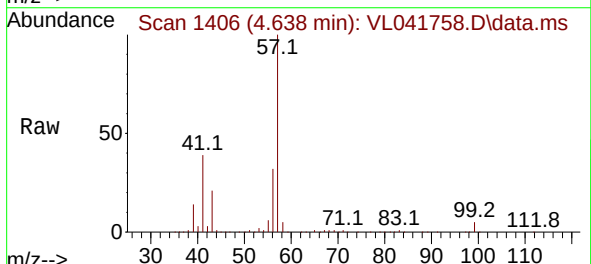
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

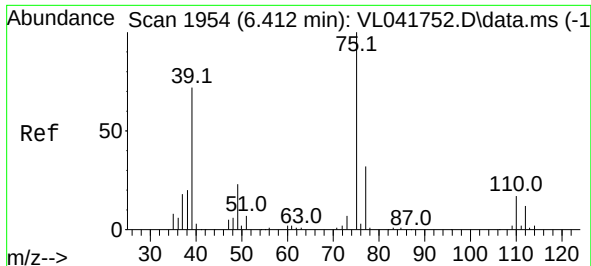
Tgt Ion: 69 Resp: 107165
Ion Ratio Lower Upper
69 100
41 162.6 130.3 195.5
100 35.0 28.3 42.5



#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_L

ClientSampleId :

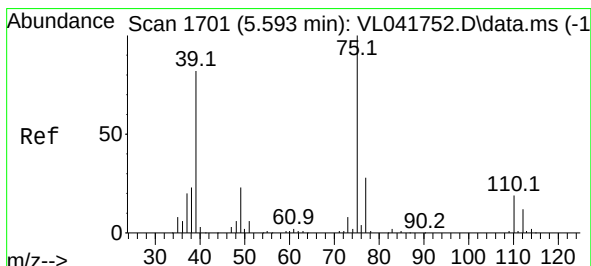
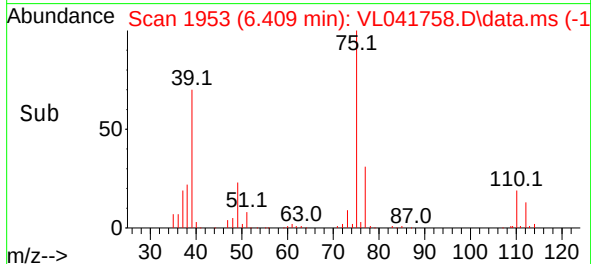
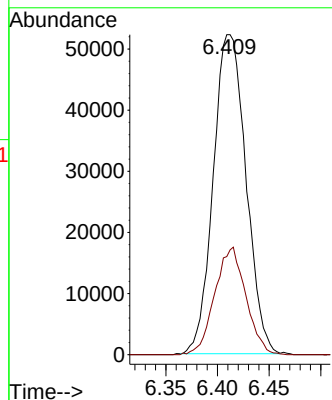
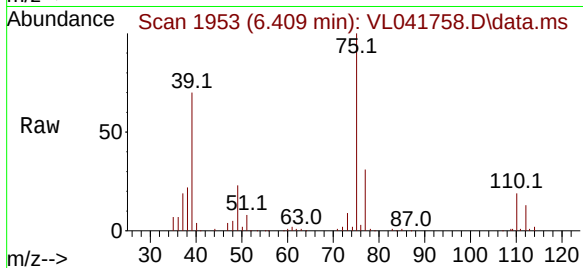
VSTDIC015

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

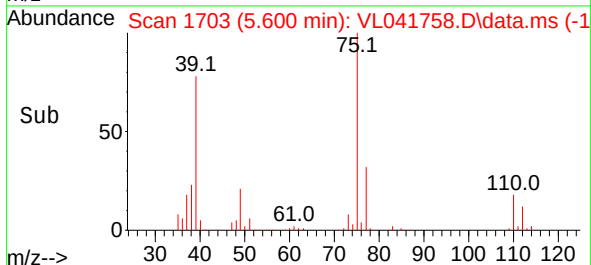
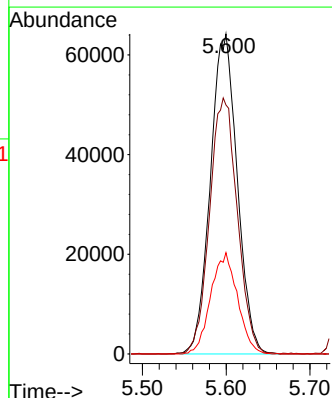
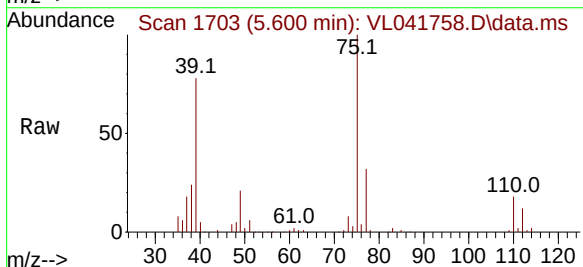
Tgt Ion: 75 Resp: 143172

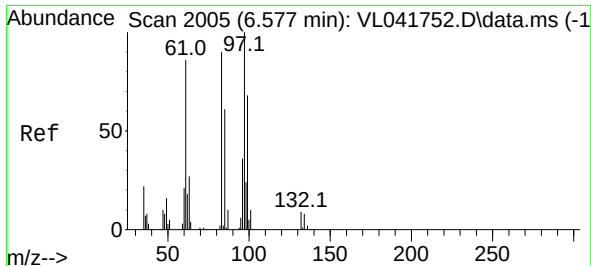
Ion Ratio Lower Upper

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

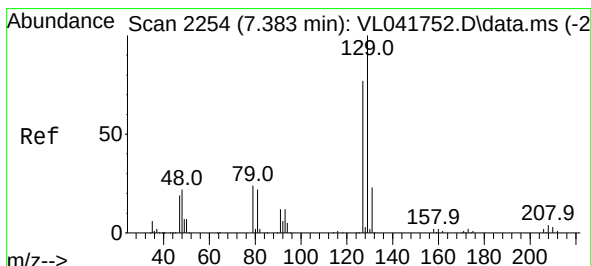
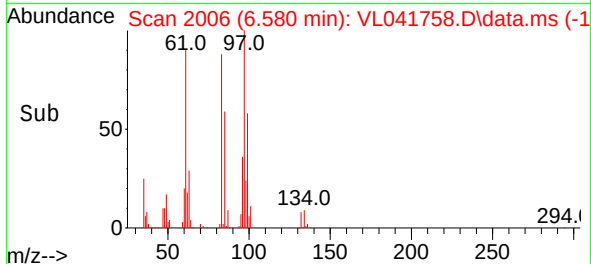
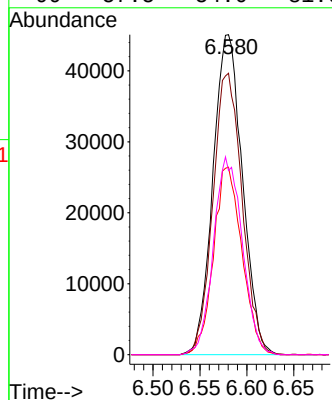
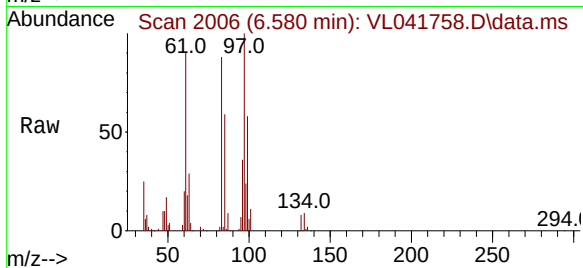
Ion Ratio Lower Upper

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

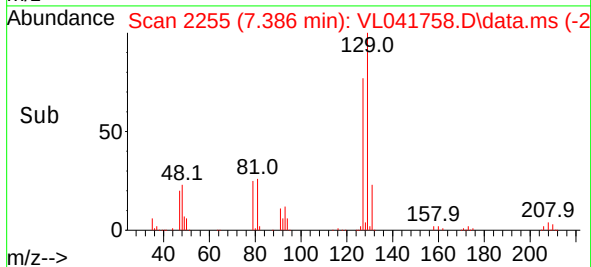
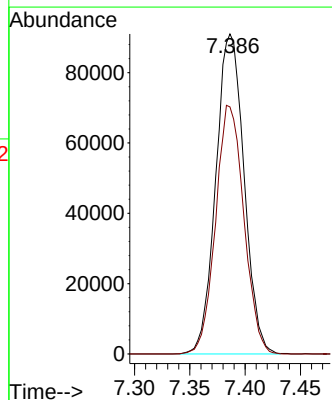
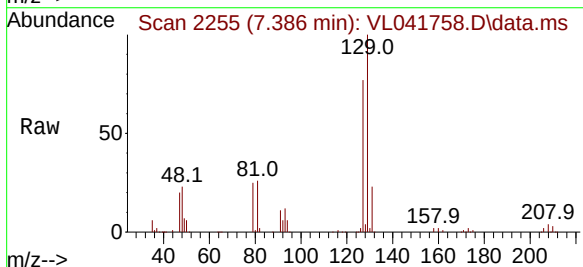
Acq: 16 Dec 2024 16:41

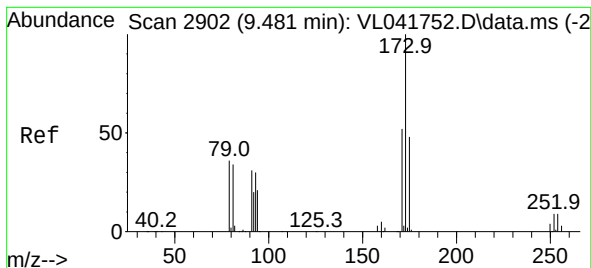
Tgt Ion: 129 Resp: 161661

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_L

ClientSampleId :

VSTDICC015

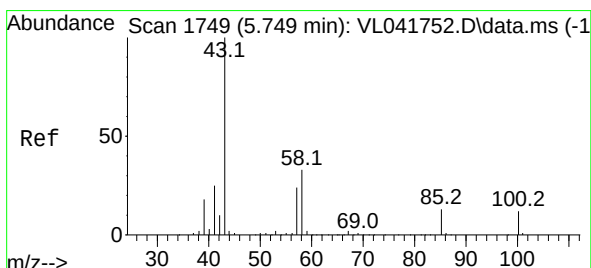
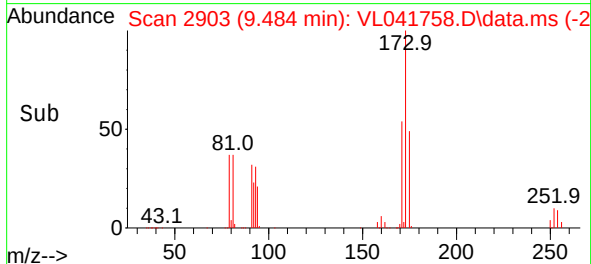
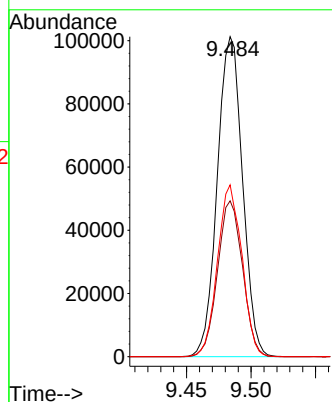
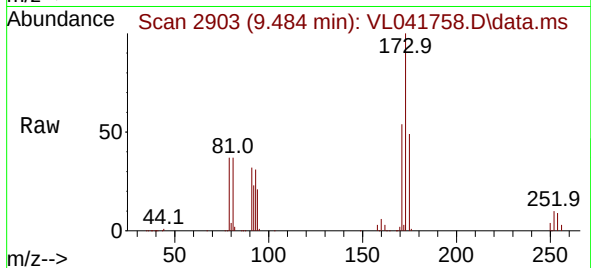
Tgt Ion:173 Resp: 137786

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

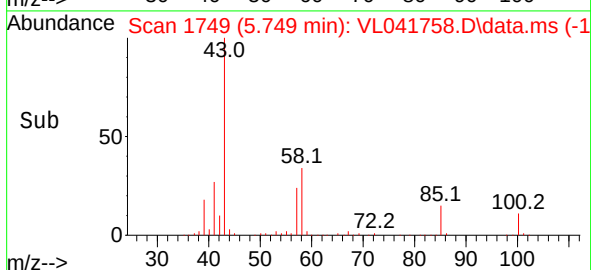
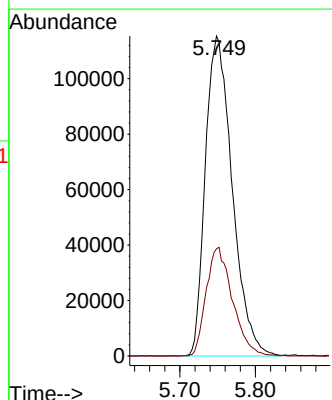
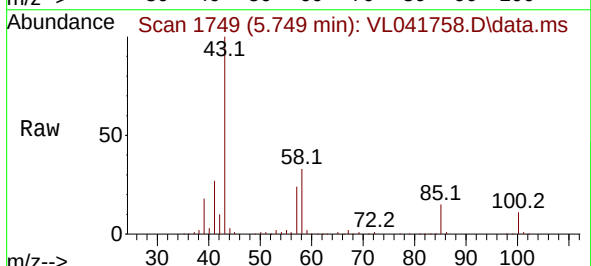
Acq: 16 Dec 2024 16:41

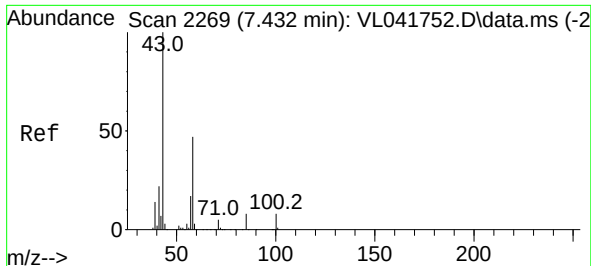
Tgt Ion: 43 Resp: 285467

Ion Ratio Lower Upper

43 100

58 33.2 26.8 40.2

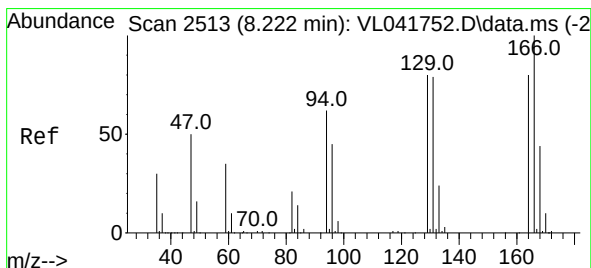
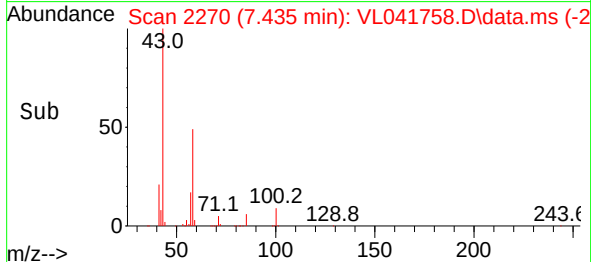
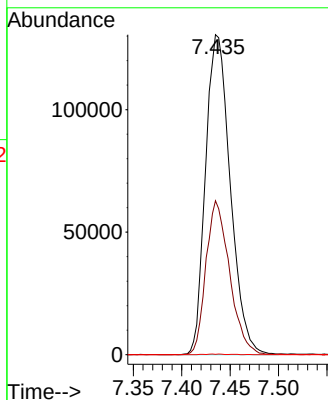
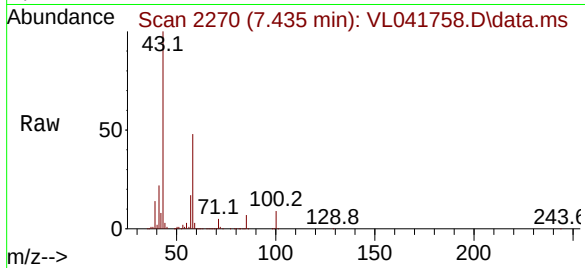




#51
2-Hexanone
Concen: 14.798 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

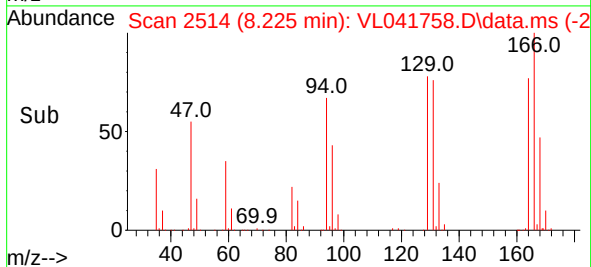
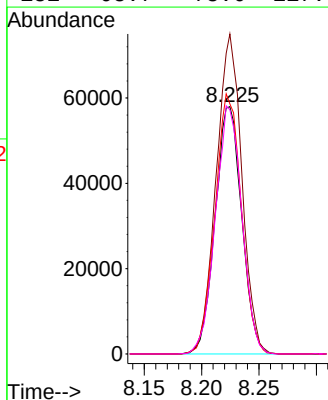
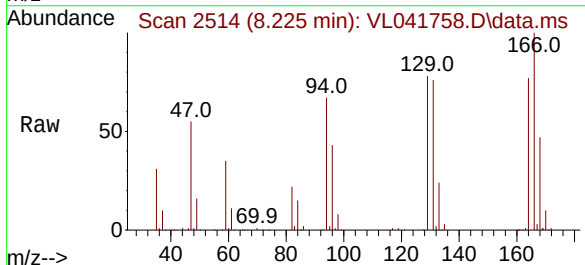
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

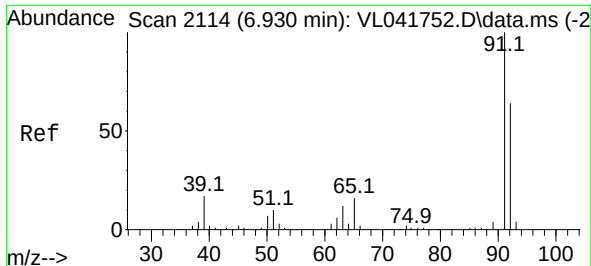
Tgt Ion: 43 Resp: 232363
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.2 0.1 0.1#



#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 :

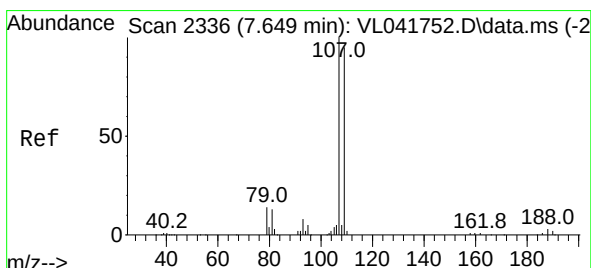
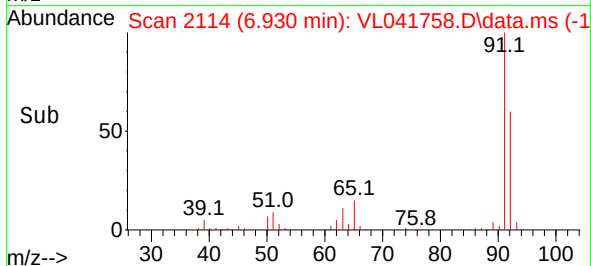
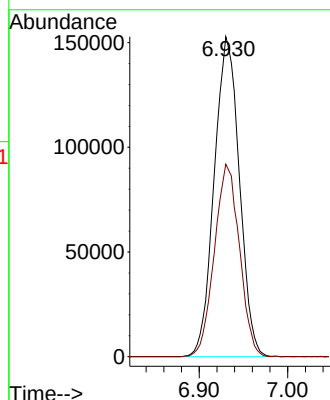
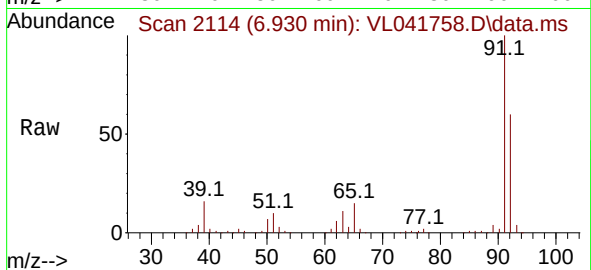
VSTDIC015

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

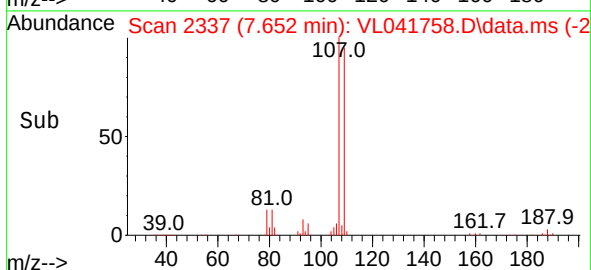
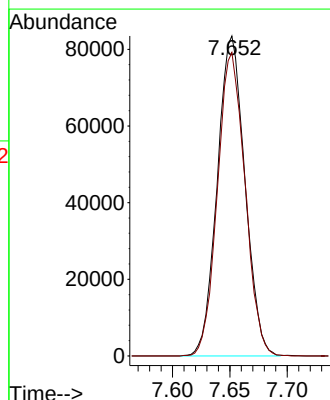
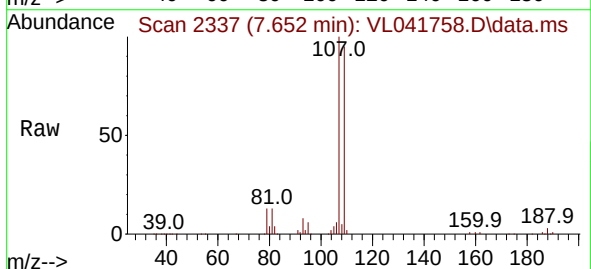
Acq: 16 Dec 2024 16:41

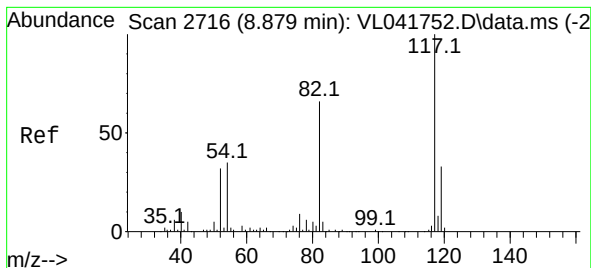
Tgt Ion:107 Resp: 139889

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

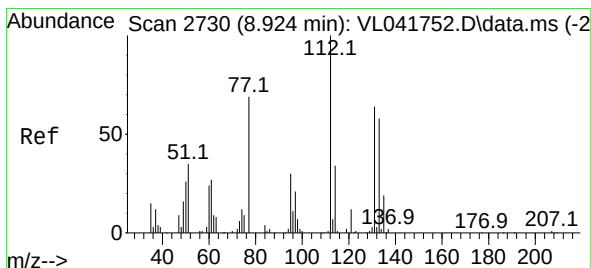
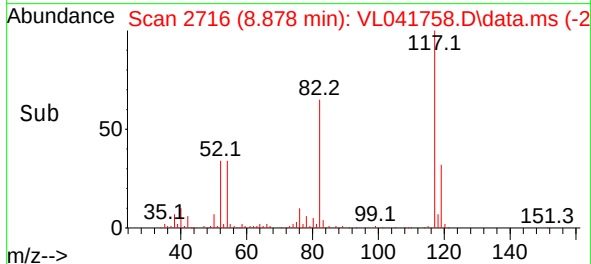
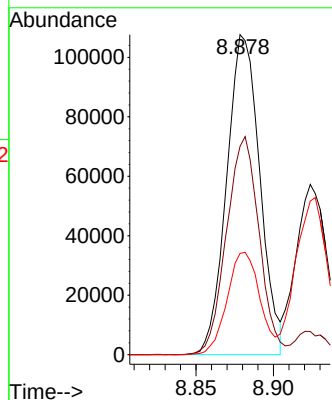
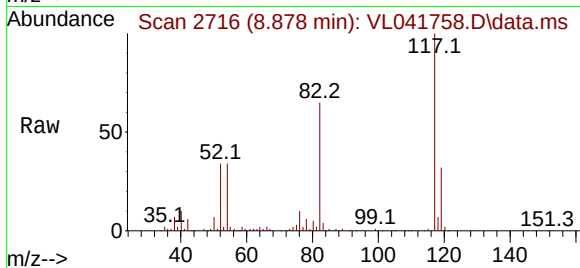
Tgt Ion:117 Resp: 160457

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

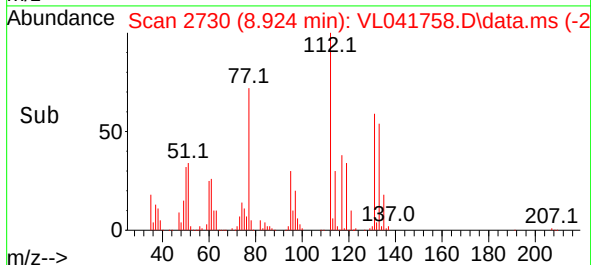
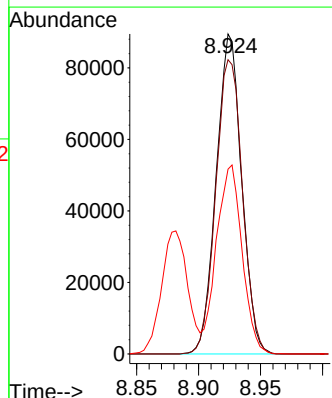
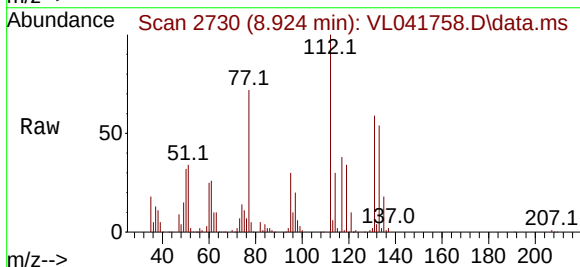
Tgt Ion:131 Resp: 128108

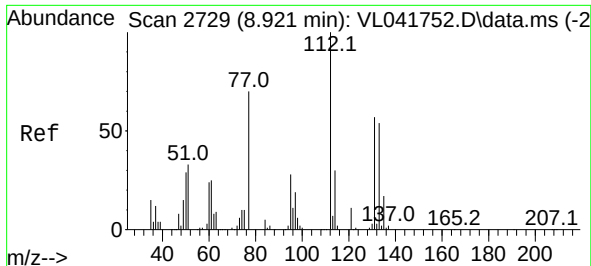
Ion Ratio Lower Upper

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_1

ClientSampleId :

VSTDIC015

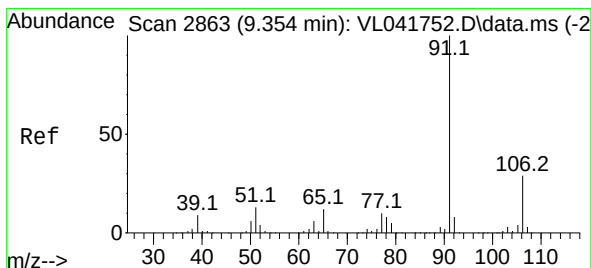
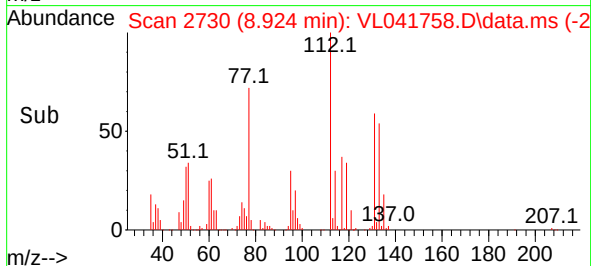
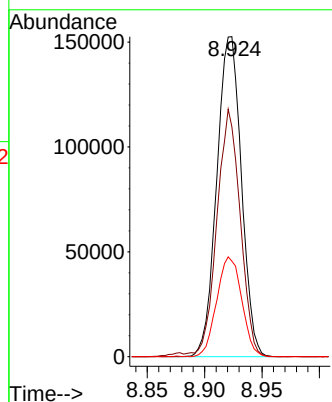
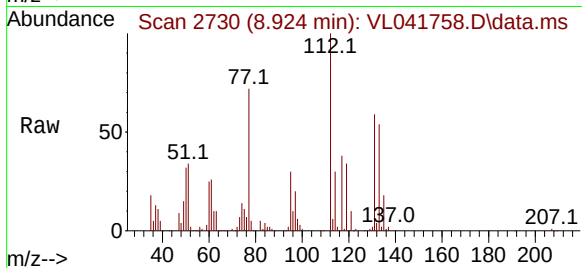
Tgt Ion:112 Resp: 227716

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

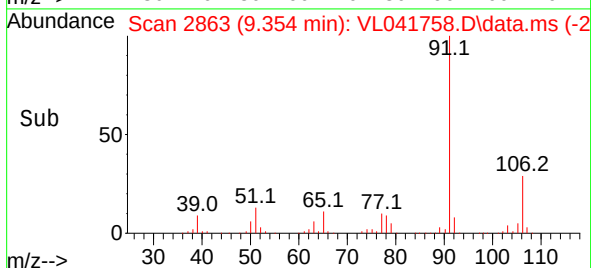
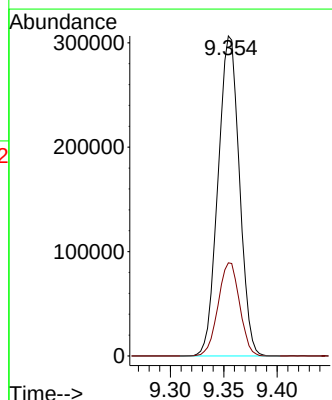
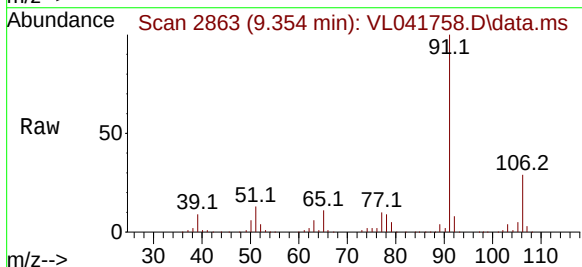
Acq: 16 Dec 2024 16:41

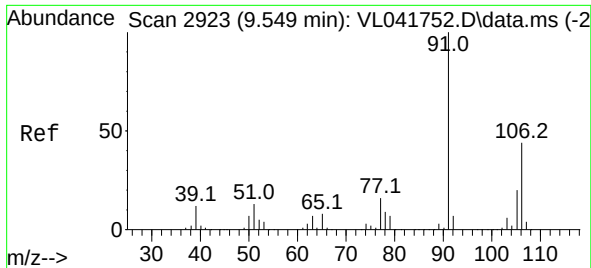
Tgt Ion: 91 Resp: 425852

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 :

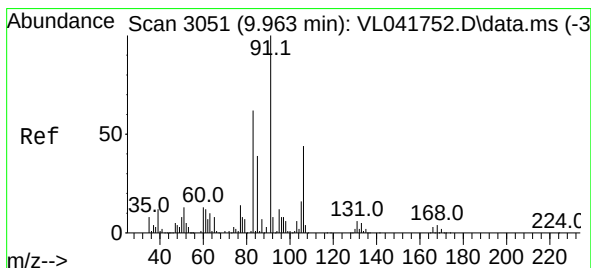
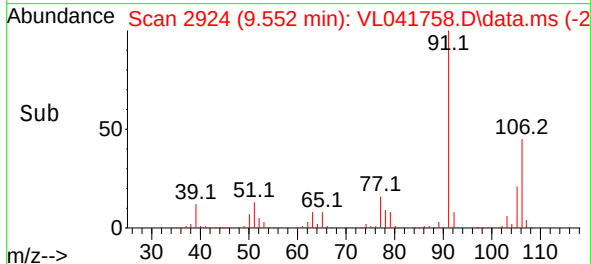
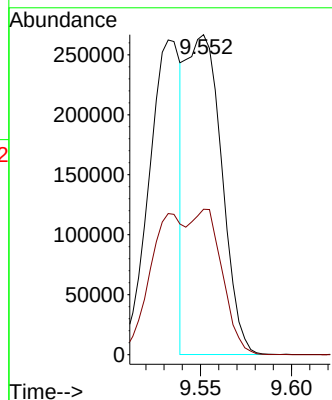
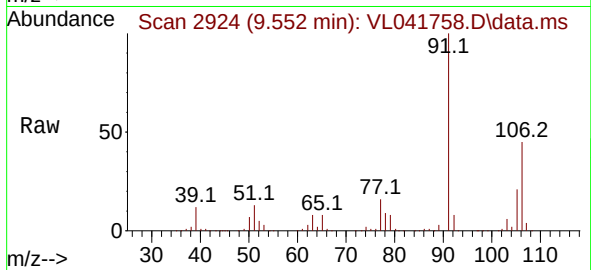
VSTDIC015

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

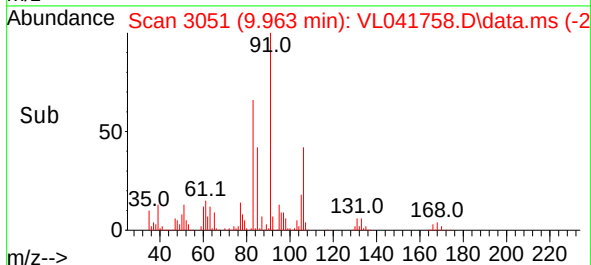
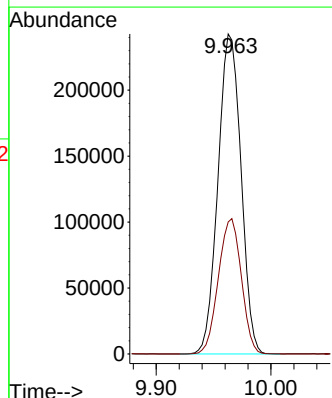
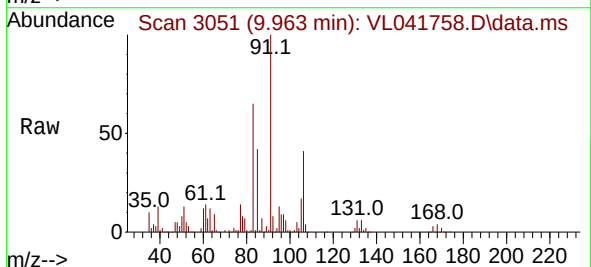
Acq: 16 Dec 2024 16:41

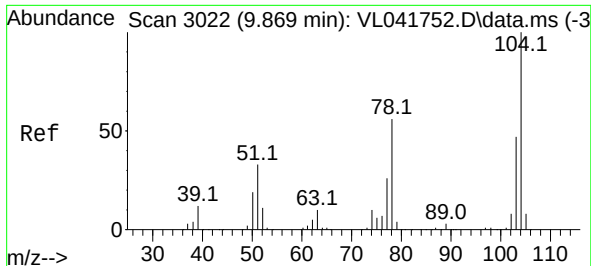
Tgt Ion: 91 Resp: 337891

Ion Ratio Lower Upper

91 100

106 42.2 21.1 63.4

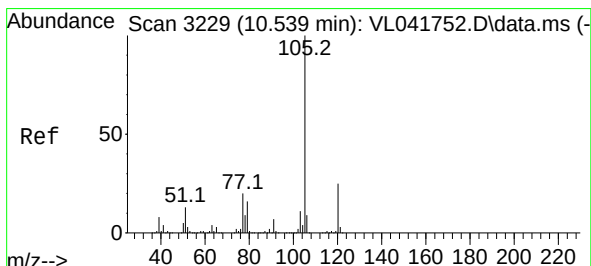
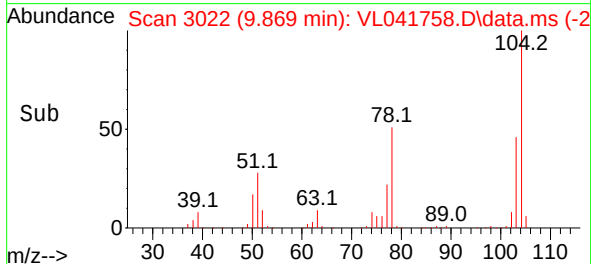
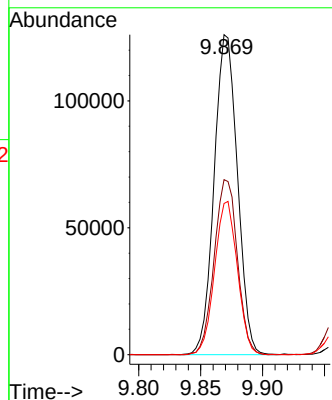
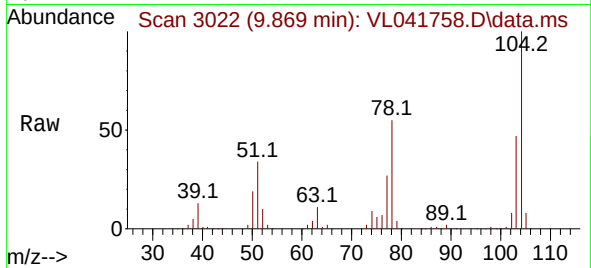




#61
Styrene
Concen: 16.415 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

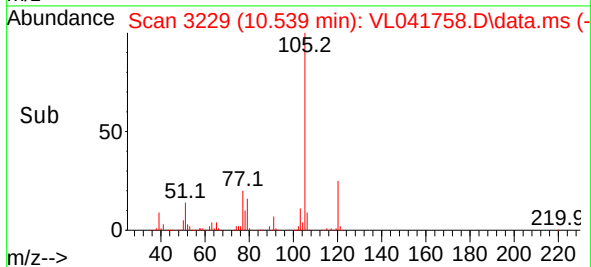
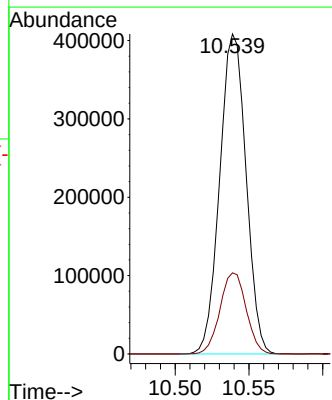
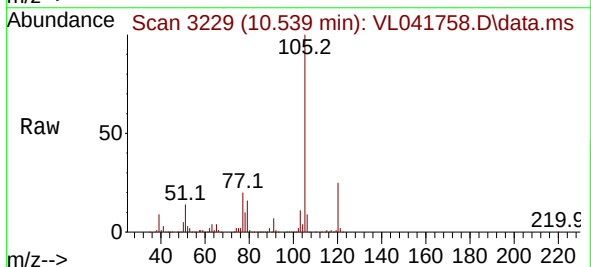
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

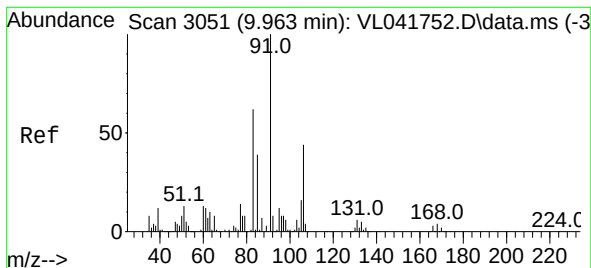
Tgt Ion:104 Resp: 165328
Ion Ratio Lower Upper
104 100
78 54.5 43.8 65.6
103 46.9 37.8 56.6



#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

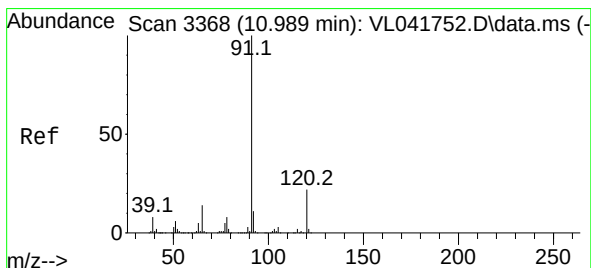
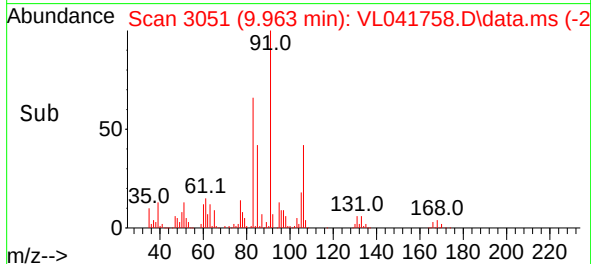
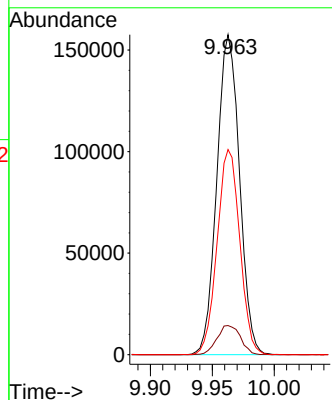
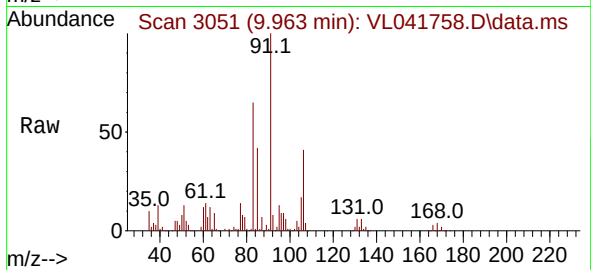
Tgt Ion: 83 Resp: 201057

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

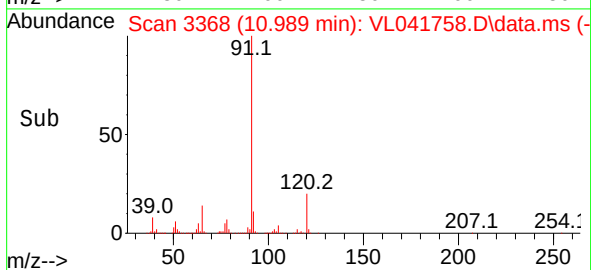
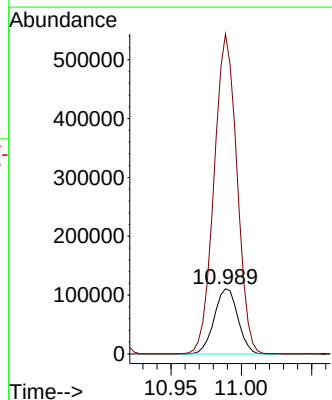
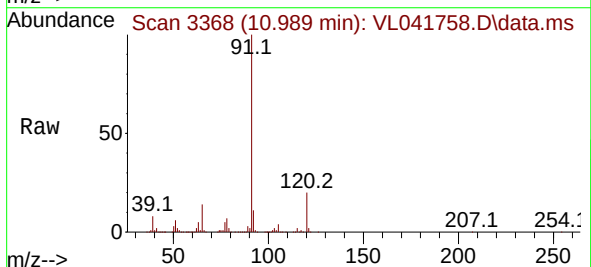
Acq: 16 Dec 2024 16:41

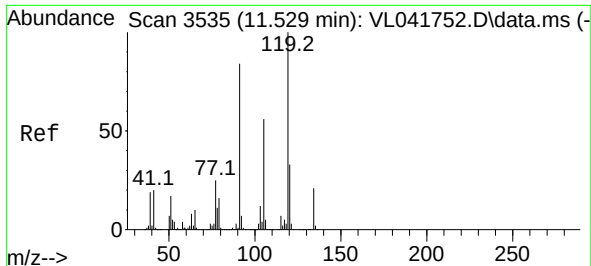
Tgt Ion:120 Resp: 129200

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

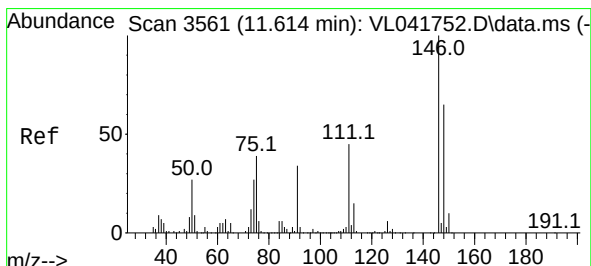
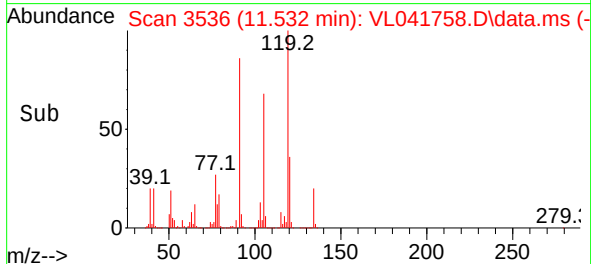
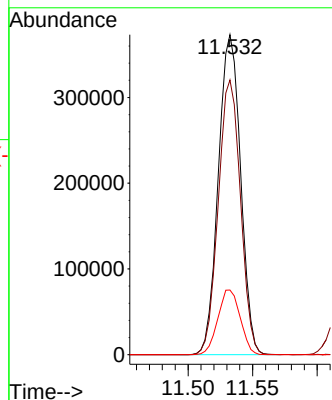
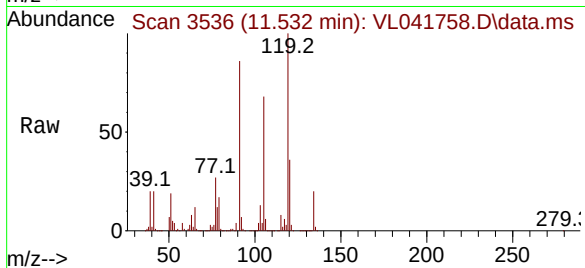
Tgt Ion:119 Resp: 446690

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

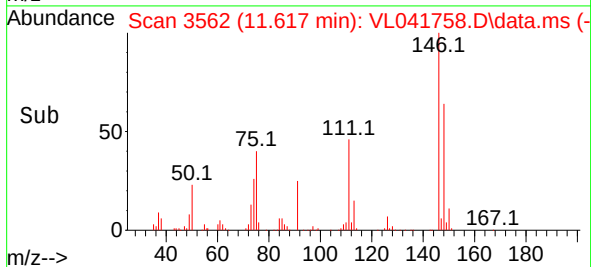
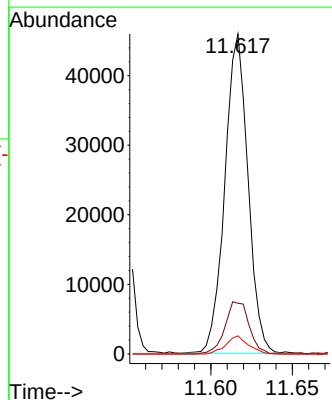
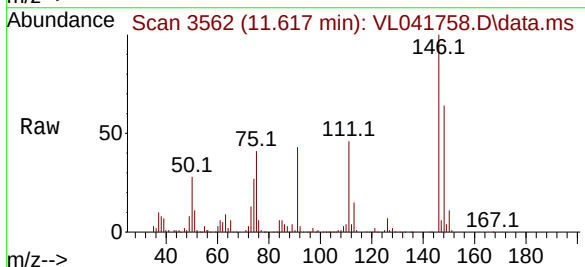
Tgt Ion: 91 Resp: 45189

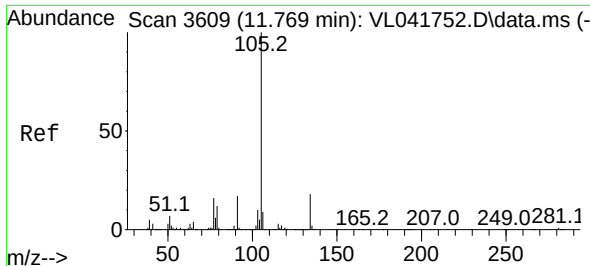
Ion Ratio Lower Upper

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 :

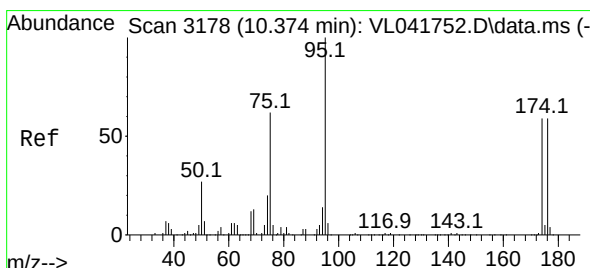
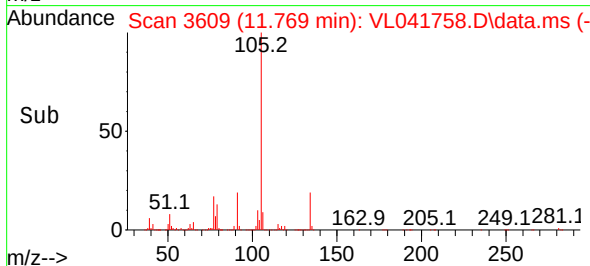
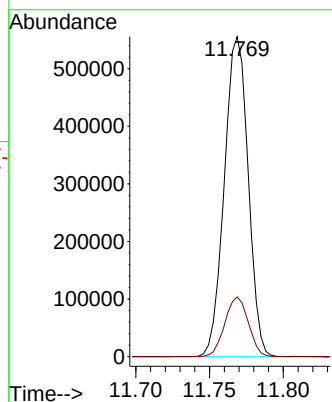
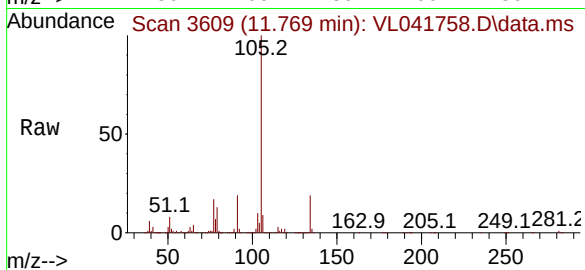
VSTDIC015

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

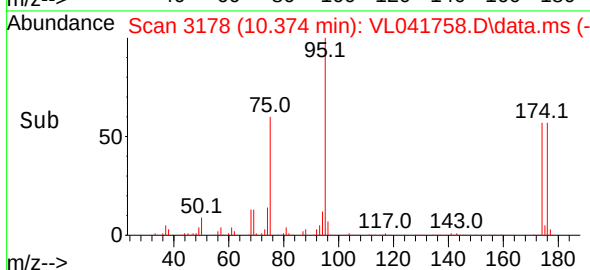
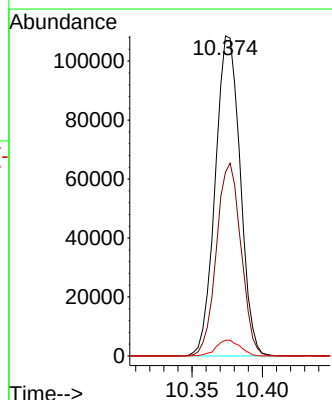
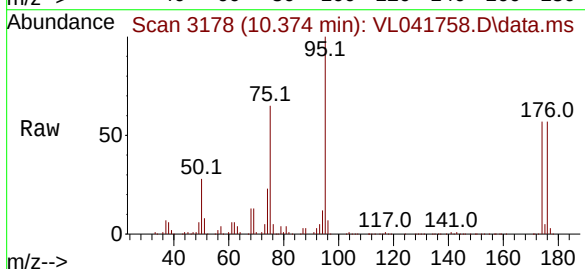
Tgt Ion: 95 Resp: 133687

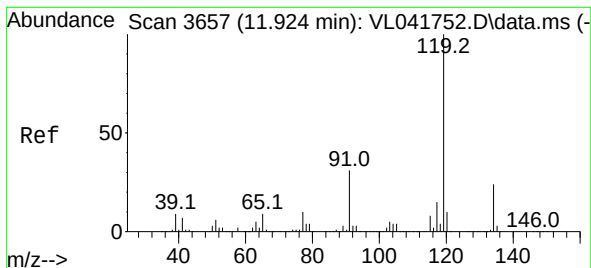
Ion Ratio Lower Upper

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

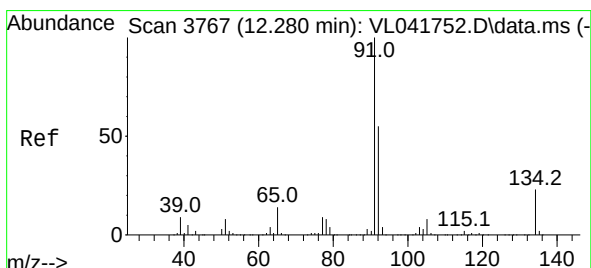
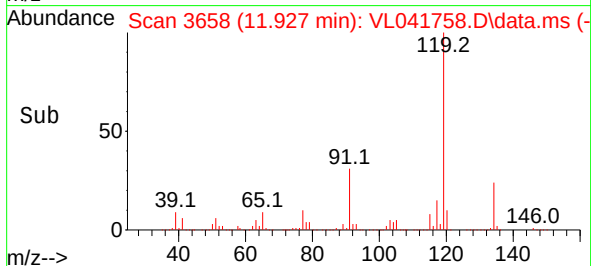
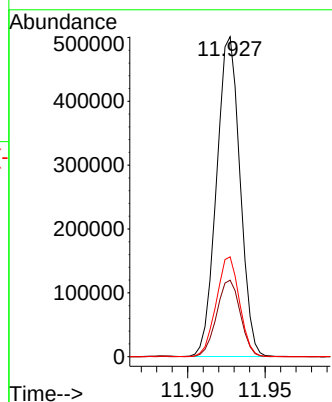
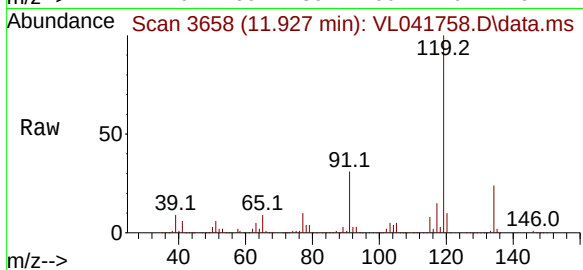
Tgt Ion:119 Resp: 528265

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

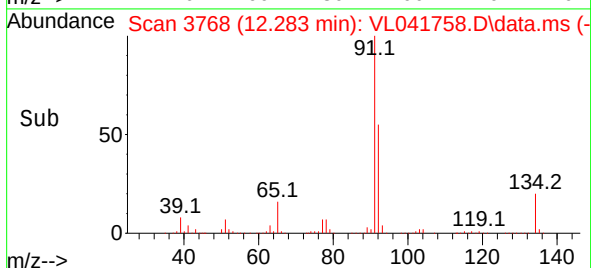
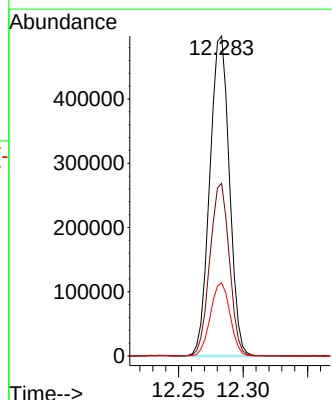
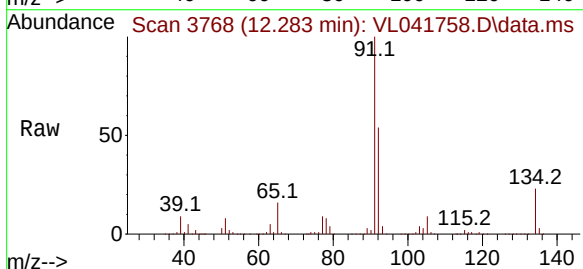
Tgt Ion: 91 Resp: 525377

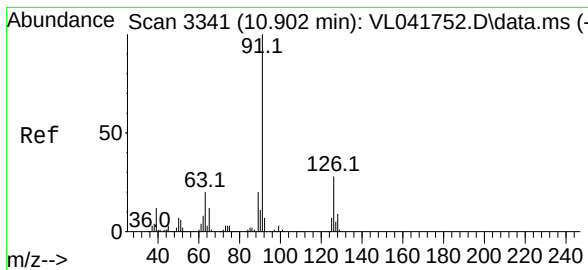
Ion Ratio Lower Upper

91 100

92 53.8 43.2 64.8

134 22.8 18.2 27.4

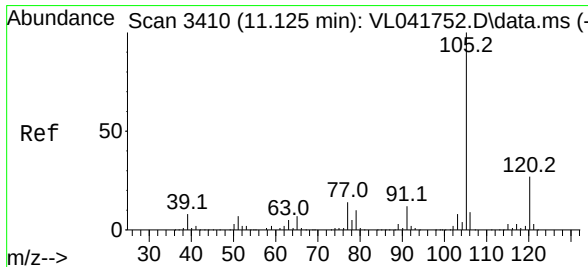
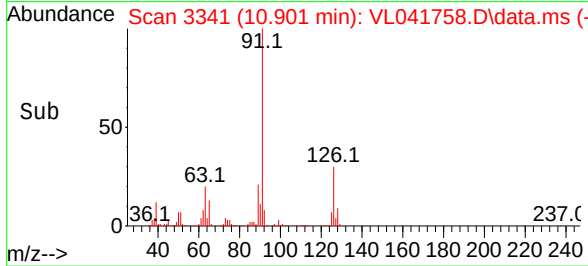
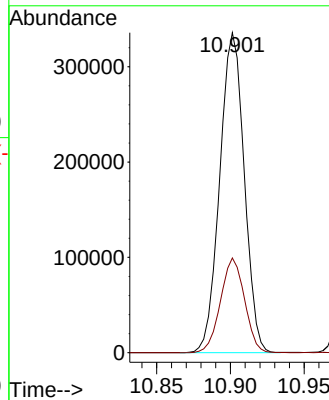
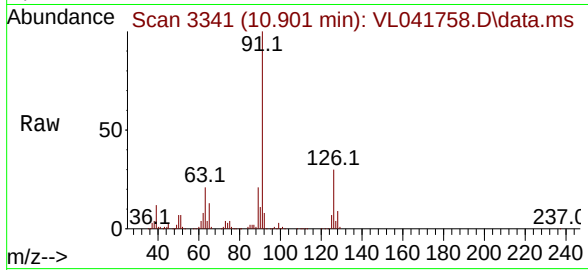




#71
2-Chlorotoluene
Concen: 14.498 ppbv
RT: 10.901 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

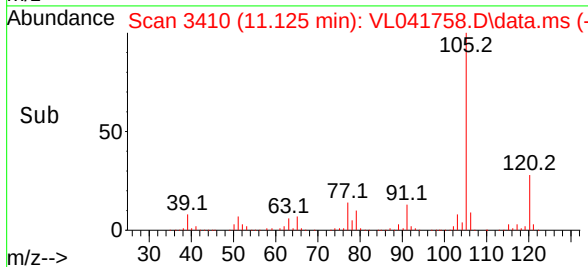
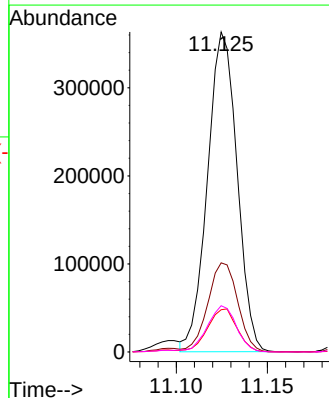
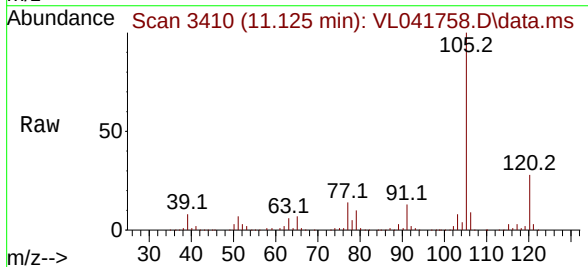
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

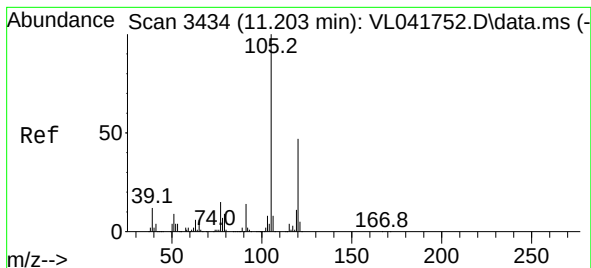
Tgt Ion: 91 Resp: 387300
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#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 :

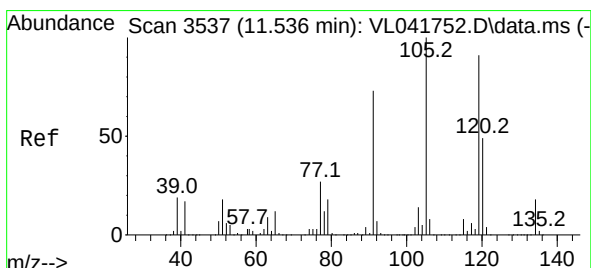
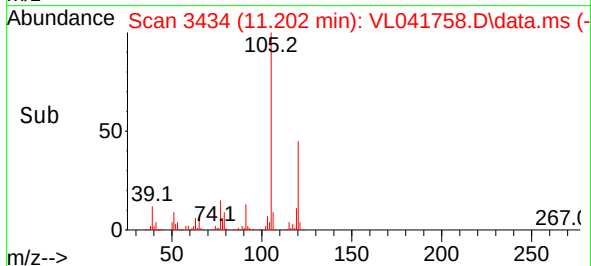
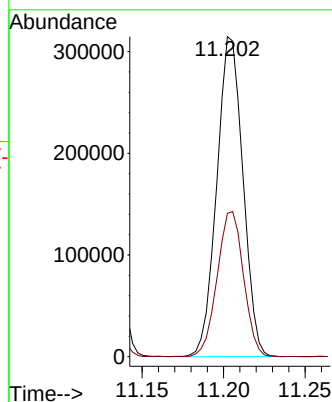
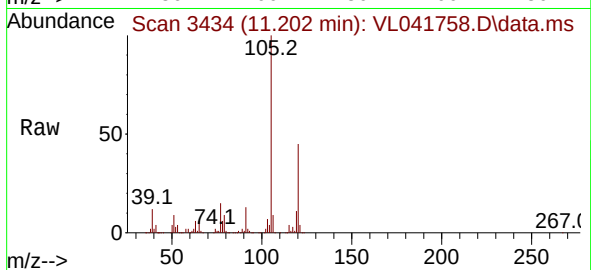
VSTDIC015

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

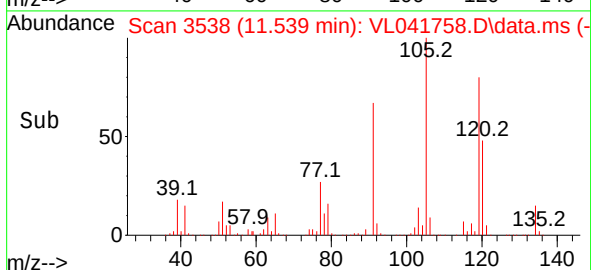
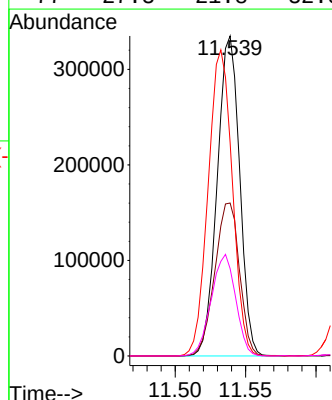
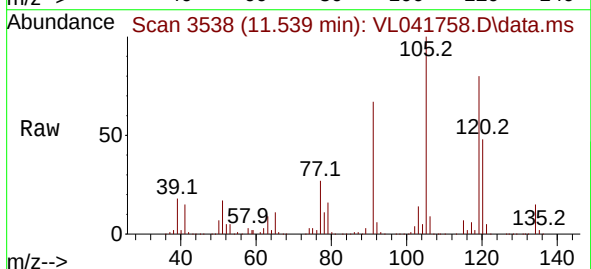
Ion Ratio Lower Upper

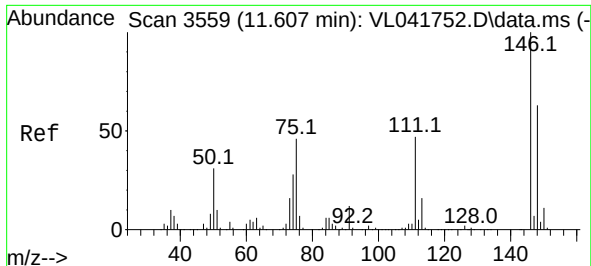
105 100

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 :

VSTDIC015

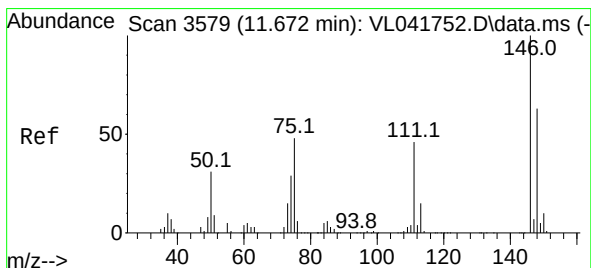
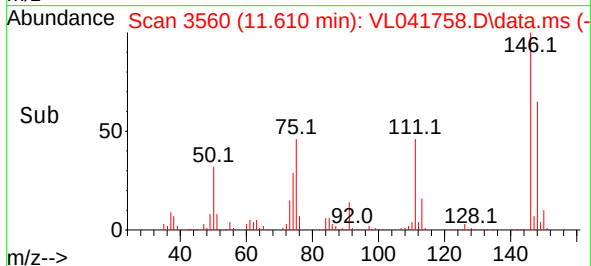
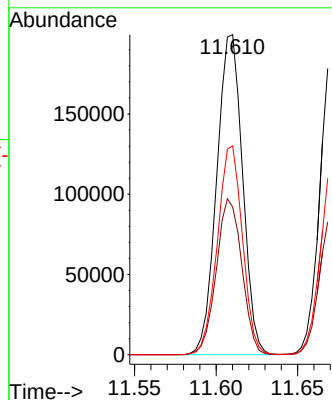
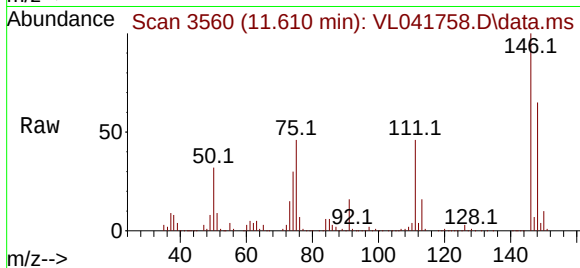
Tgt Ion:146 Resp: 219506

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

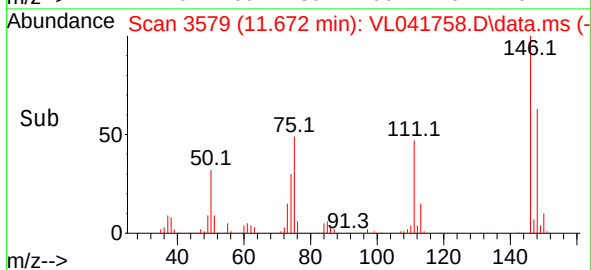
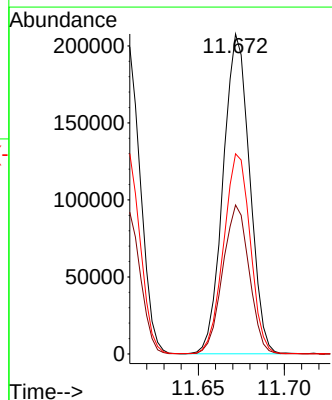
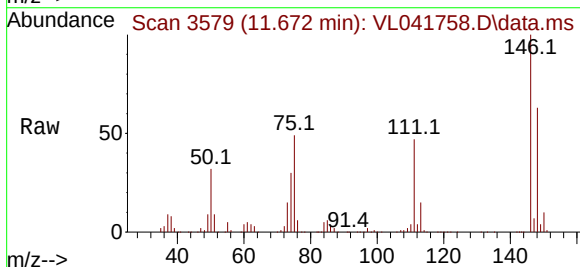
Tgt Ion:146 Resp: 222290

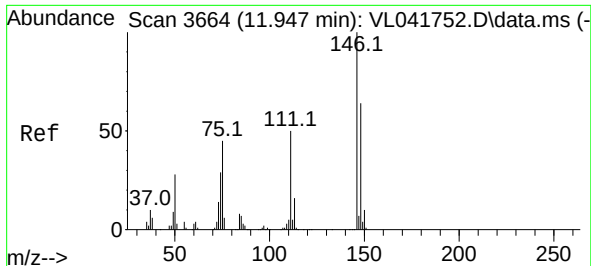
Ion Ratio Lower Upper

146 100

111 46.6 22.7 68.1

148 63.2 31.4 94.0

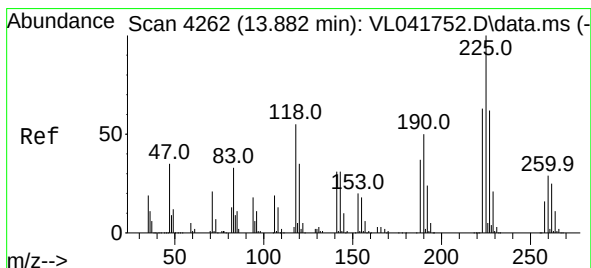
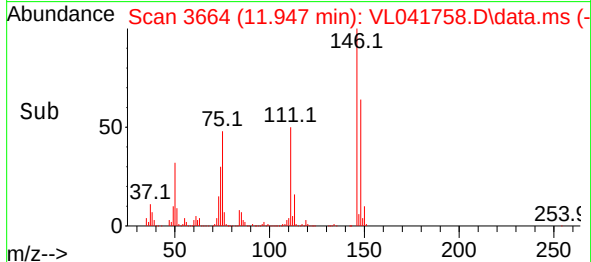
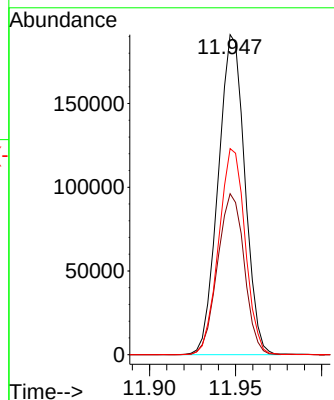
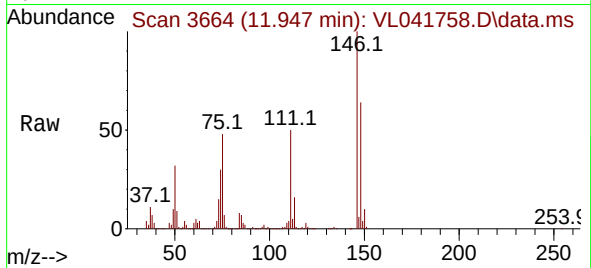




#77
1,2-Dichlorobenzene
Concen: 13.672 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL041758.D
Acq: 16 Dec 2024 16:41

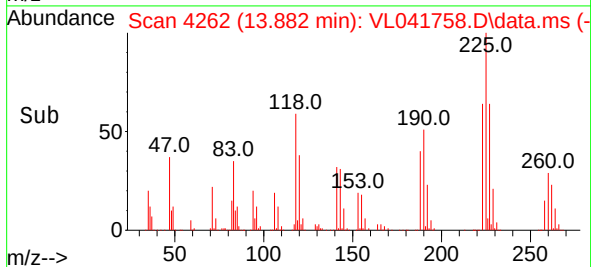
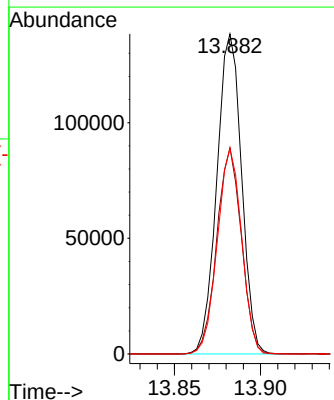
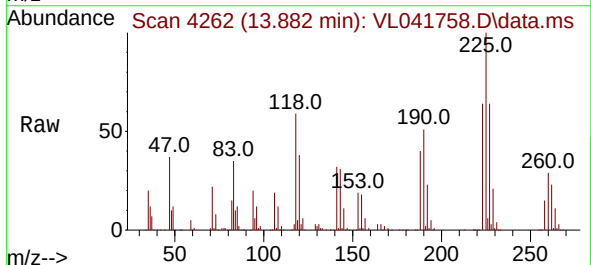
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

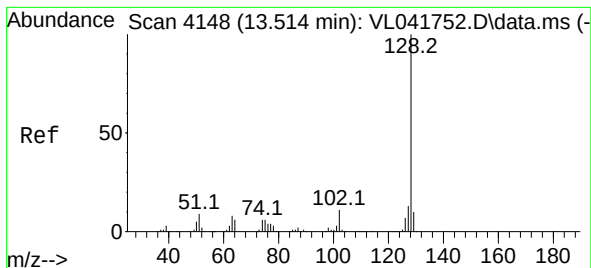
Tgt Ion:146 Resp: 205737
Ion Ratio Lower Upper
146 100
111 50.4 24.8 74.3
148 63.9 31.8 95.4



#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_1

ClientSampleId :

VSTDIC015

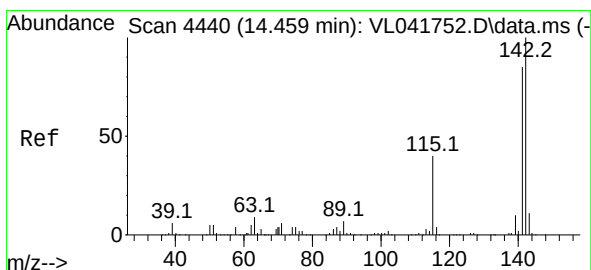
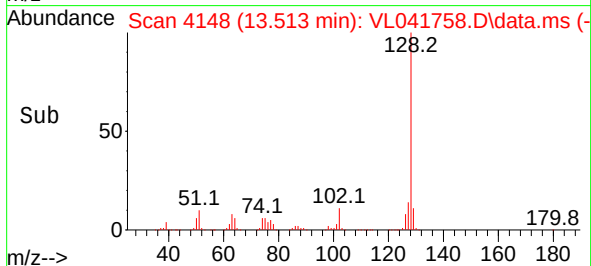
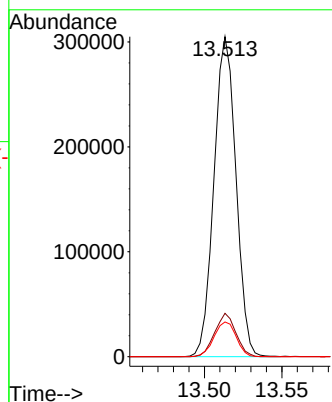
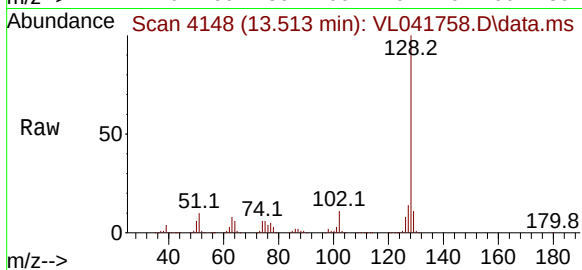
Tgt Ion:128 Resp: 301006

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

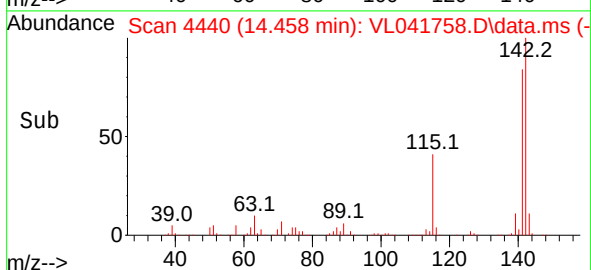
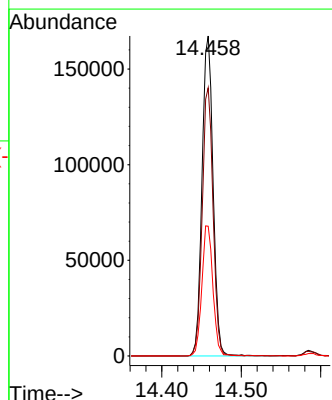
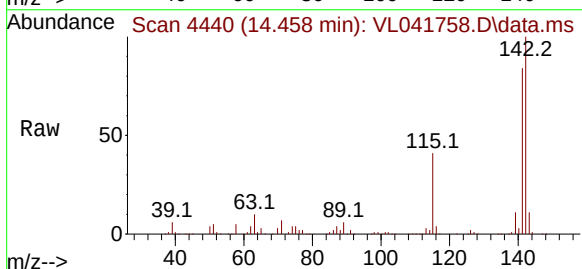
Tgt Ion:142 Resp: 161927

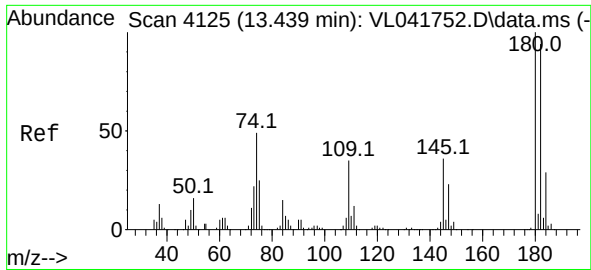
Ion Ratio Lower Upper

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

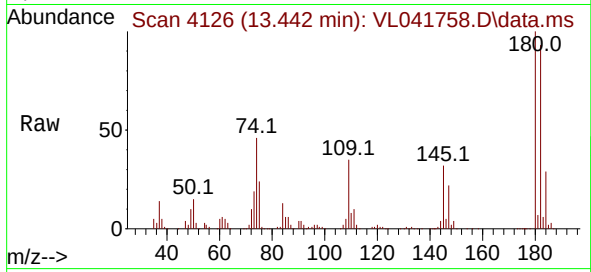
Acq: 16 Dec 2024 16:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



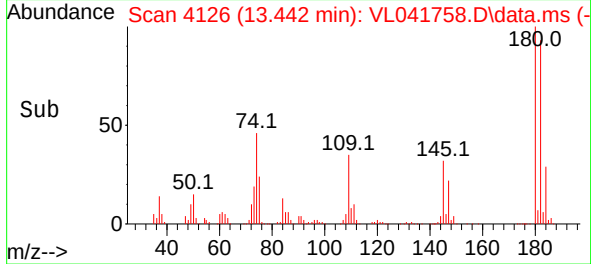
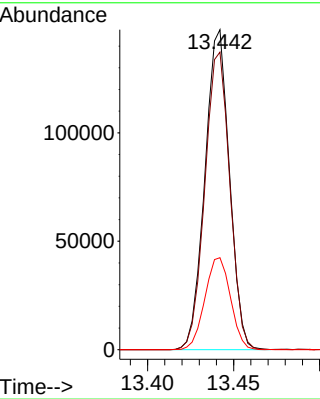
Tgt Ion:180 Resp: 146340

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 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	2.787	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 :
 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

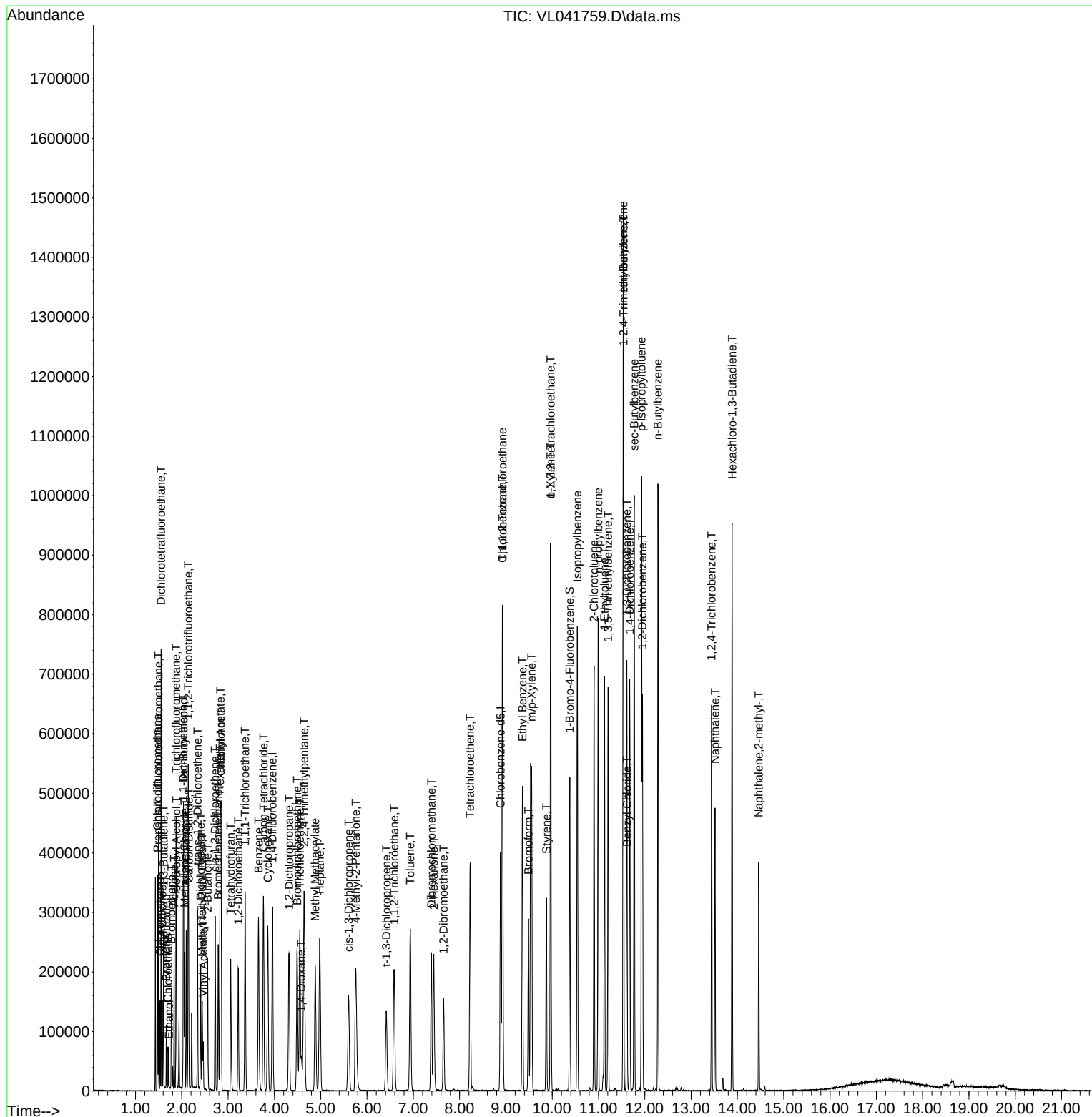
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	37758	5.541	ppbv	94
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv	100
49) Bromoform	9.487	173	88971	11.682	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	190637	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

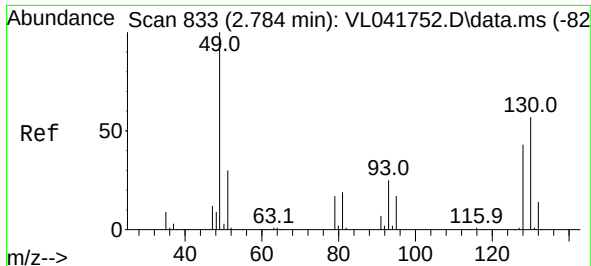
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

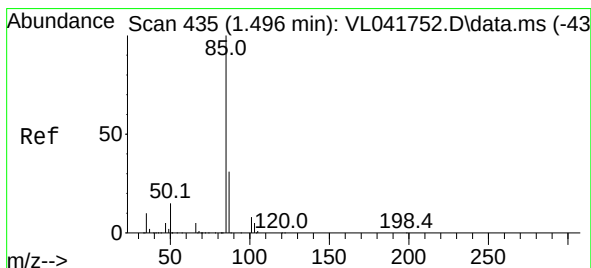
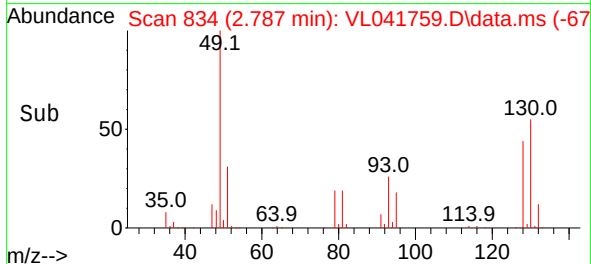
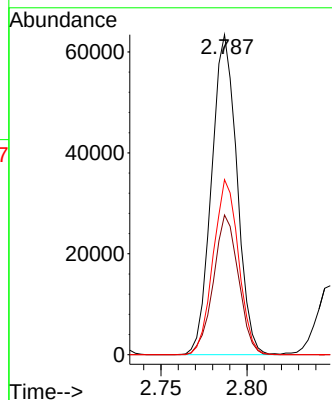
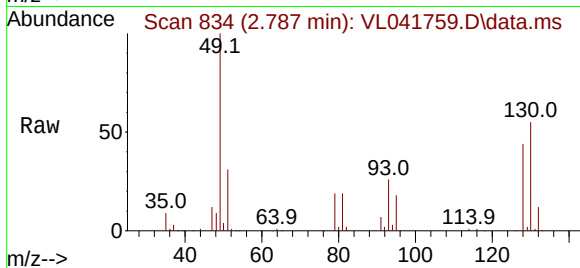




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

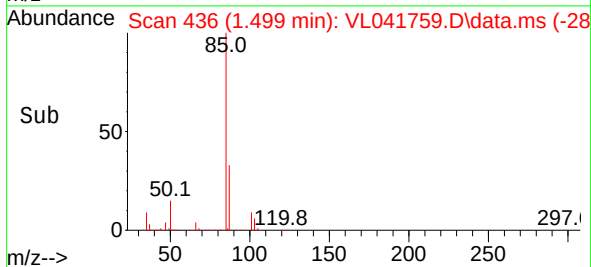
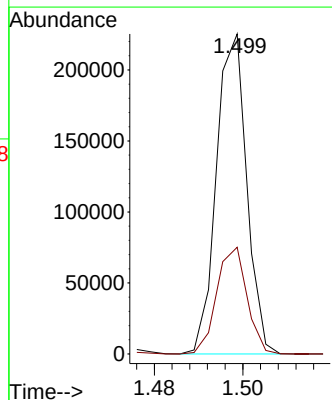
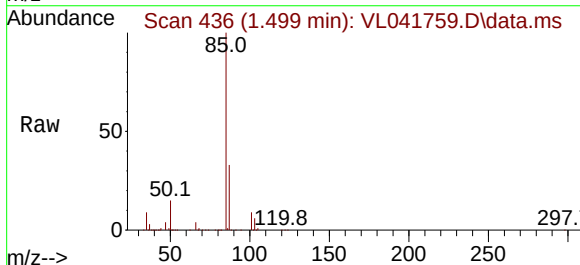
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

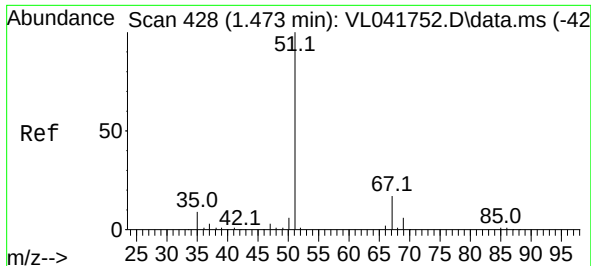
Tgt Ion: 49 Resp: 64976
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.6
130 54.5 28.3 85.0



#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

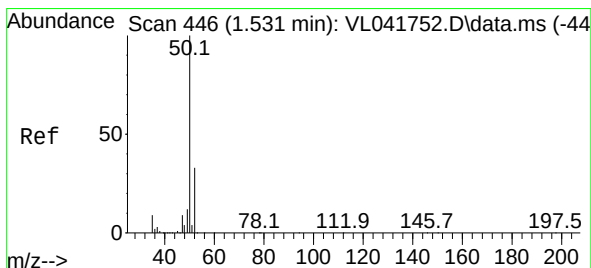
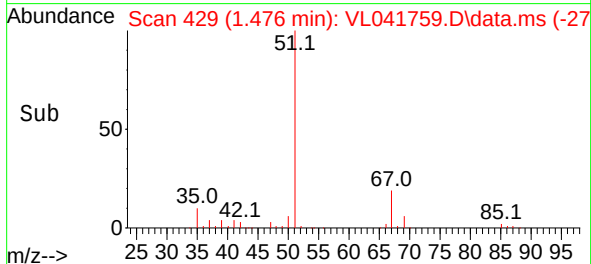
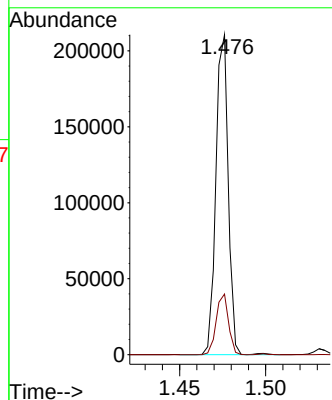
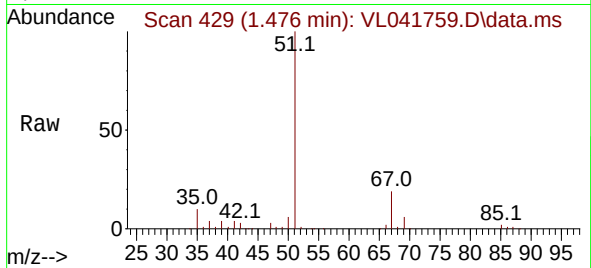




#3
Chlorodifluoromethane
Concen: 9.922 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

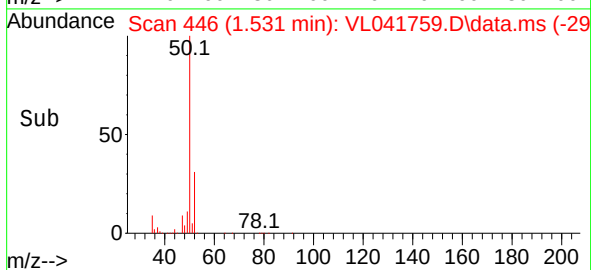
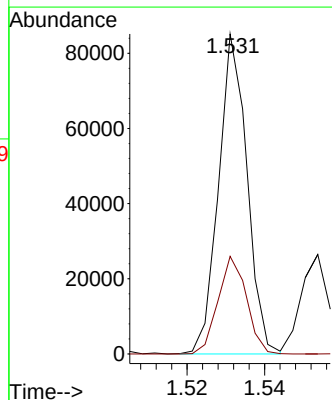
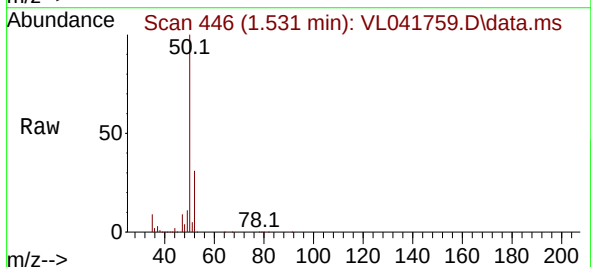
Instrument : MSVOA_1
ClientSampleId : ICVVL121624

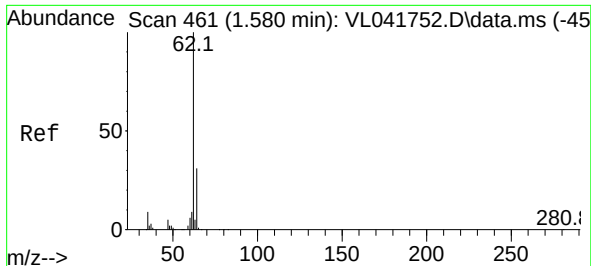
Tgt Ion: 51 Resp: 105141
Ion Ratio Lower Upper
51 100
67 19.1 15.0 22.4



#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

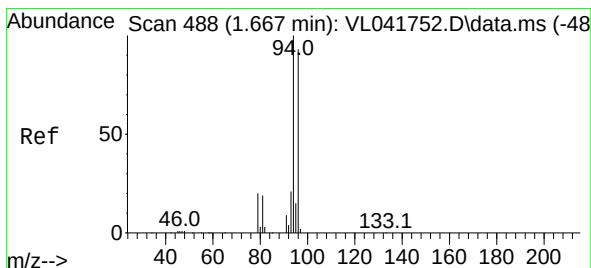
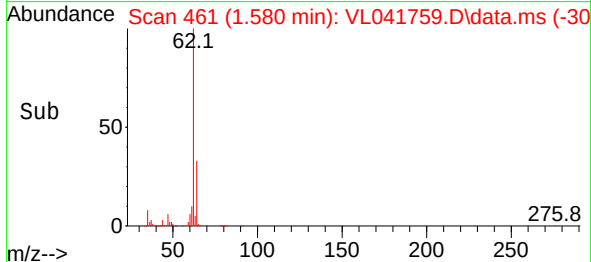
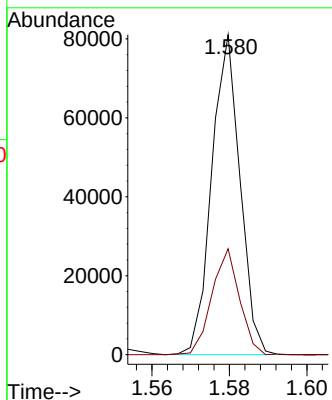
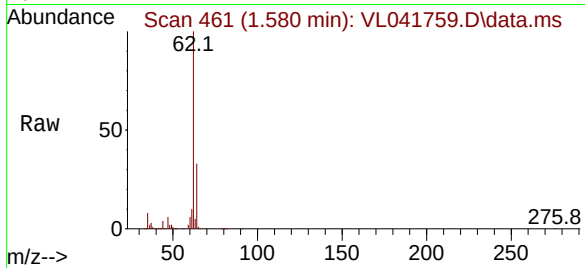




#5
 Vinyl Chloride
 Concen: 8.986 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

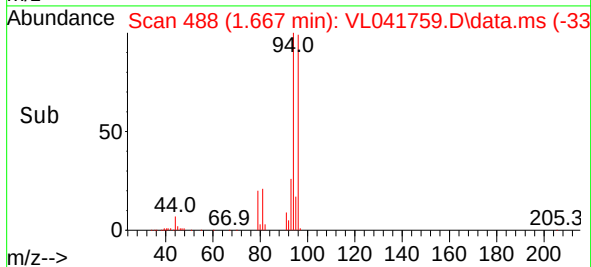
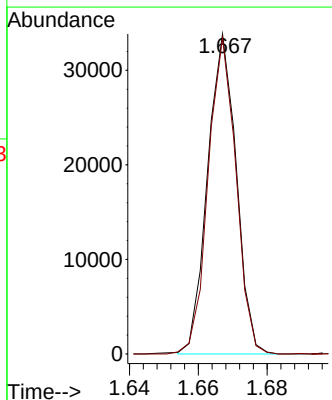
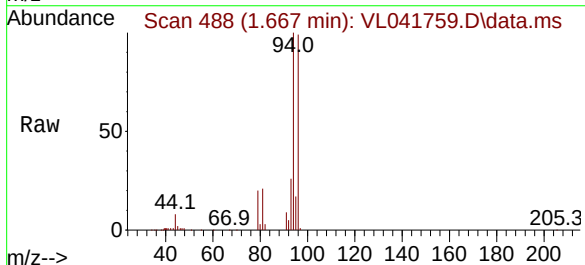
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL121624

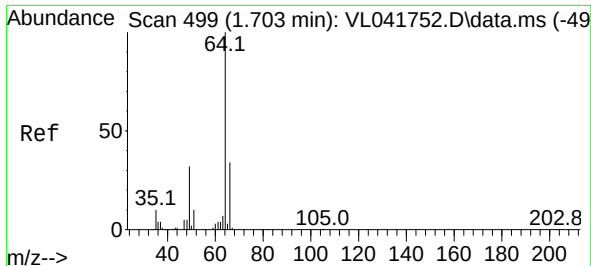
Tgt Ion: 62 Resp: 40956
 Ion Ratio Lower Upper
 62 100
 64 33.0 25.1 37.7



#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

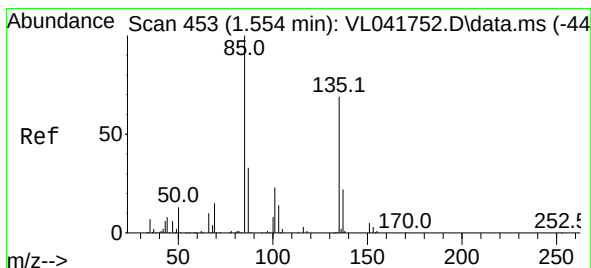
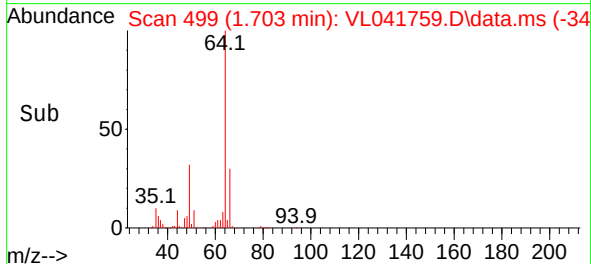
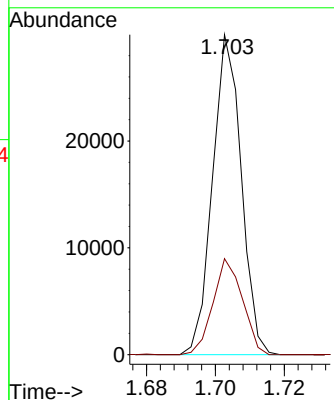
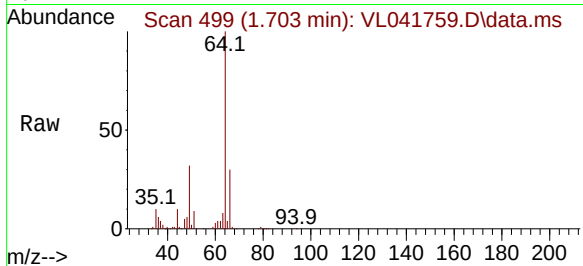




#7
Chloroethane
Concen: 9.803 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

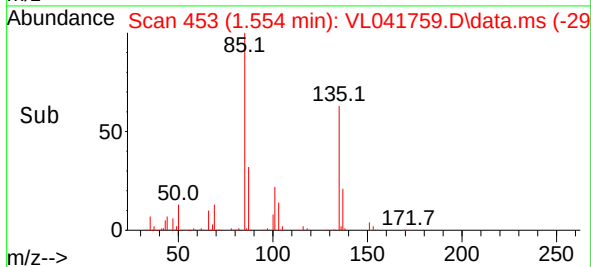
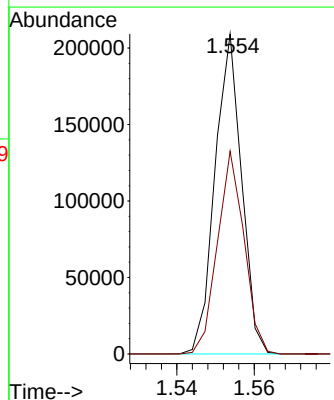
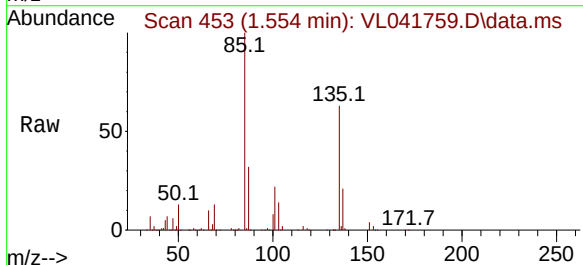
Instrument : MSVOA_1
ClientSampleId : ICVVL121624

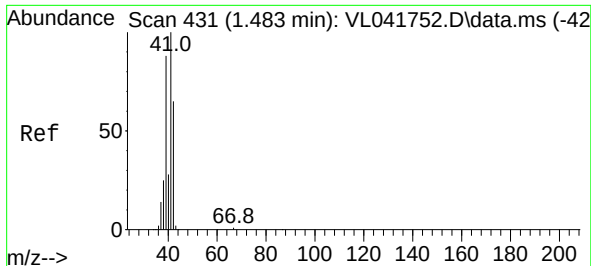
Tgt Ion: 64 Resp: 17356
Ion Ratio Lower Upper
64 100
66 30.0 27.5 41.3



#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 :

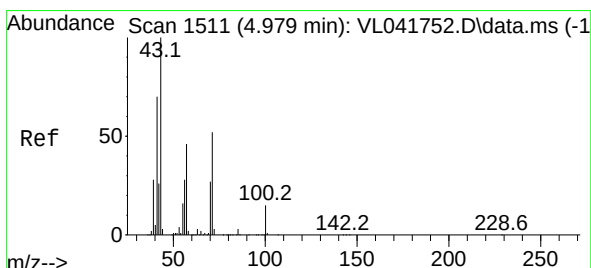
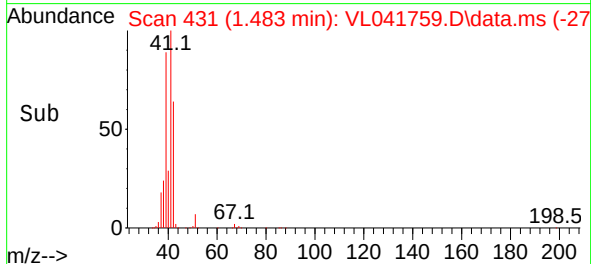
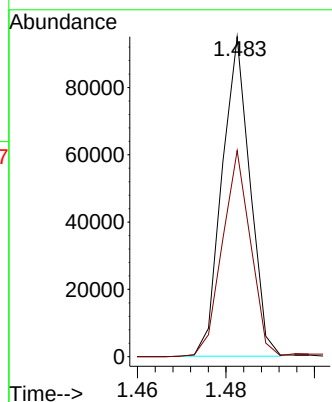
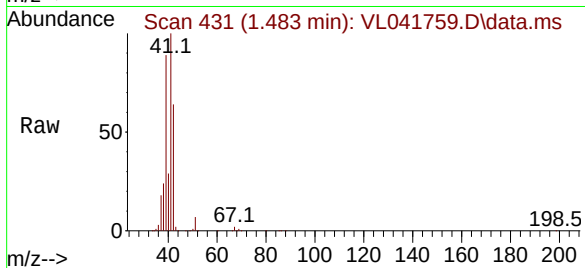
ICVVL121624

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

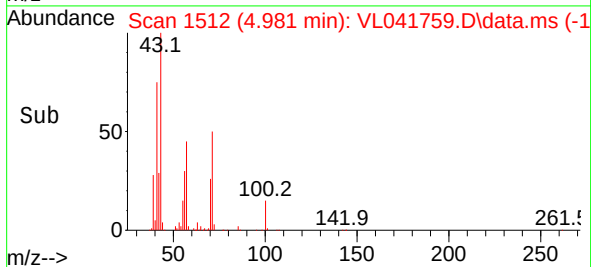
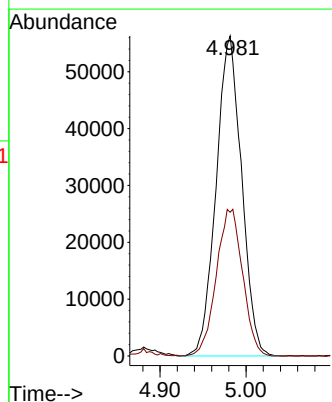
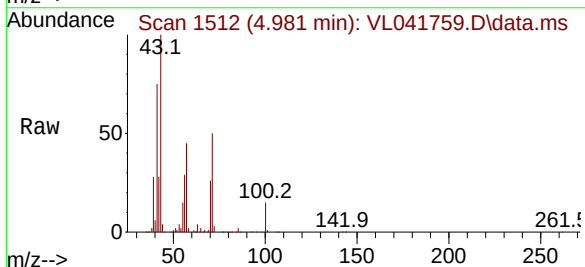
Acq: 16 Dec 2024 18:59

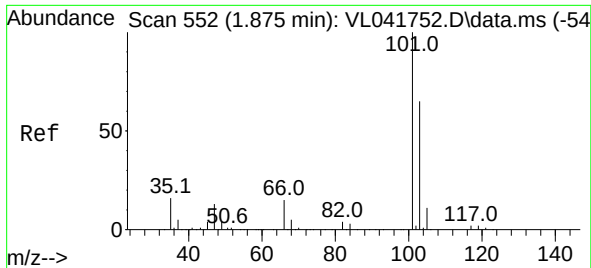
Tgt Ion: 43 Resp: 115804

Ion Ratio Lower Upper

43 100

57 47.4 38.5 57.7





#11

Trichlorofluoromethane

Concen: 9.428 ppbv

RT: 1.877 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

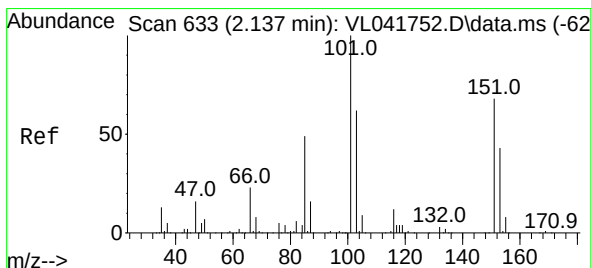
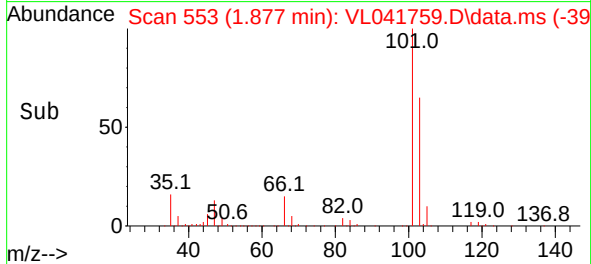
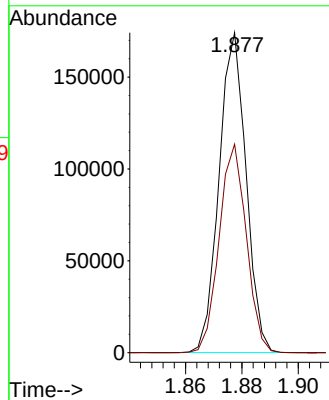
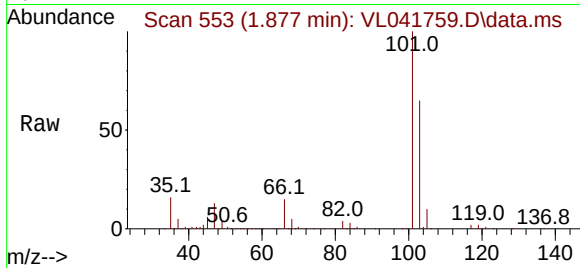
ICVVL121624

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

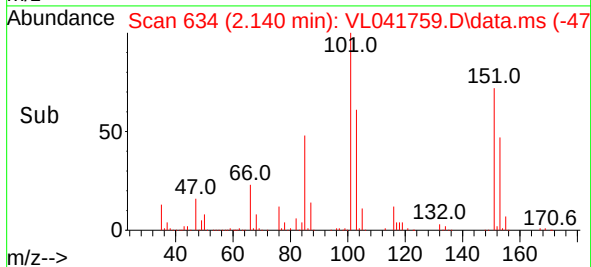
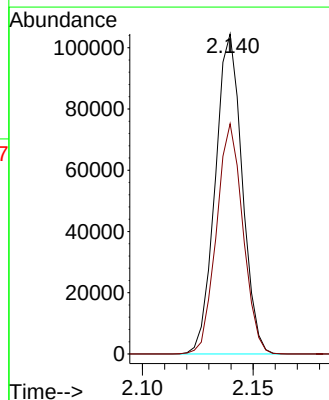
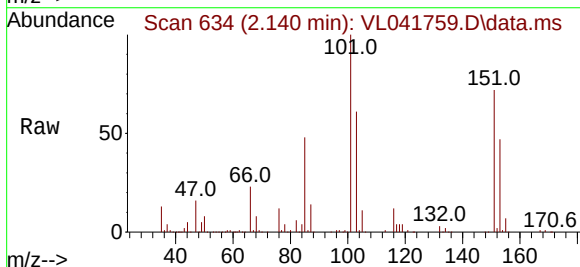
Acq: 16 Dec 2024 18:59

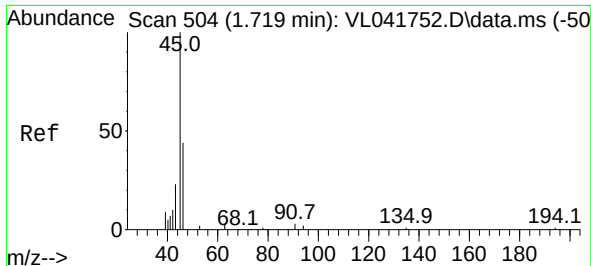
Tgt Ion:101 Resp: 88265

Ion Ratio Lower Upper

101 100

151 70.8 56.8 85.2





#13

Ethanol

Concen: 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 :

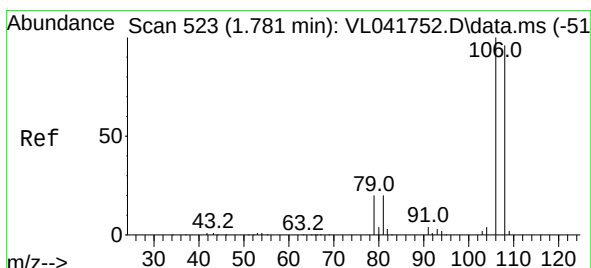
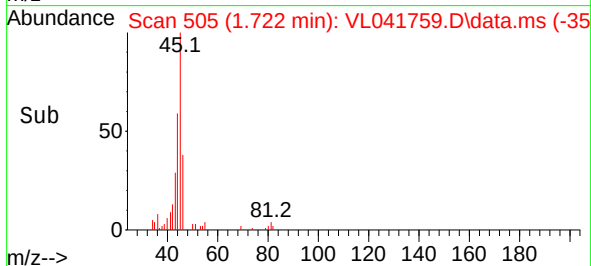
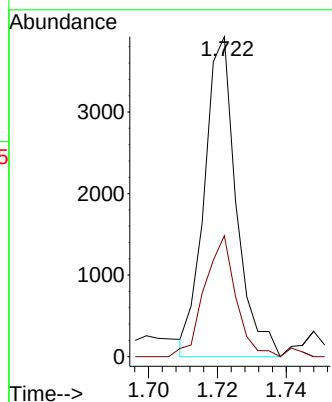
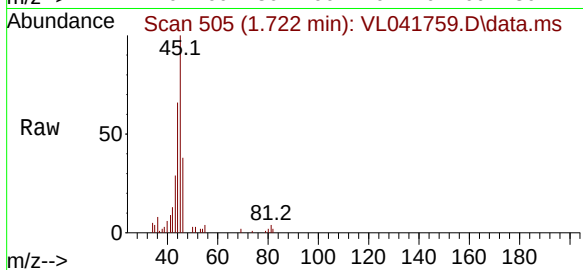
ICVVL121624

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

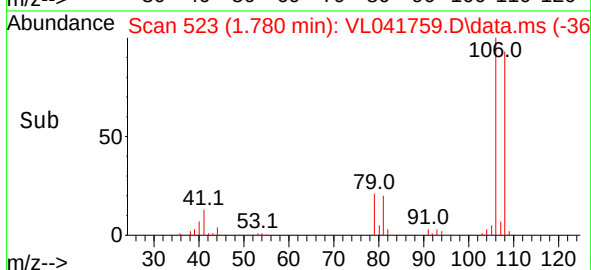
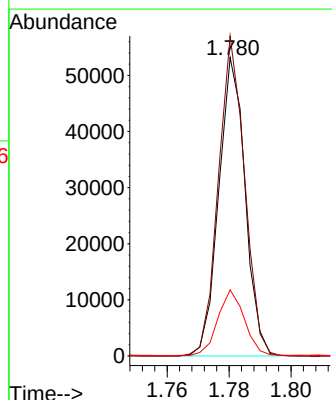
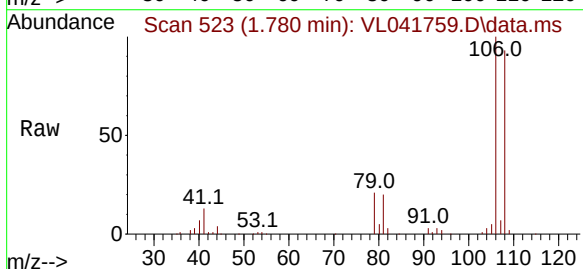
Tgt Ion:108 Resp: 31492

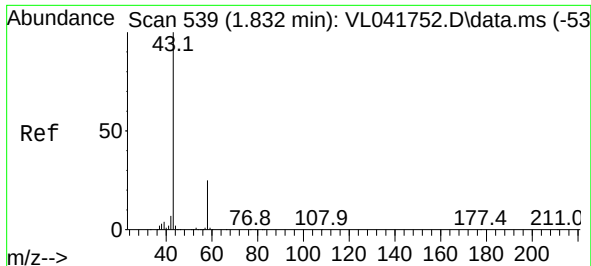
Ion Ratio Lower Upper

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_1

ClientSampleId :

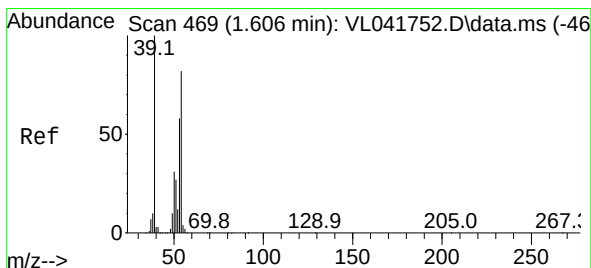
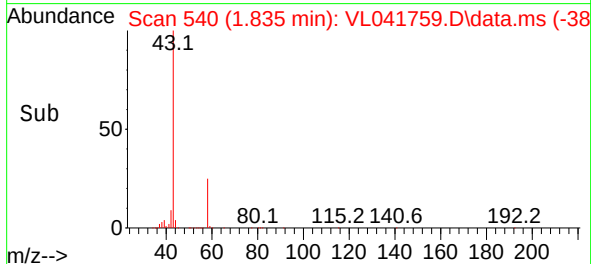
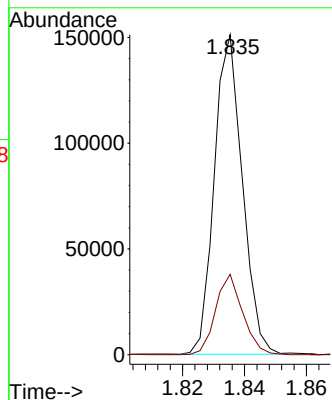
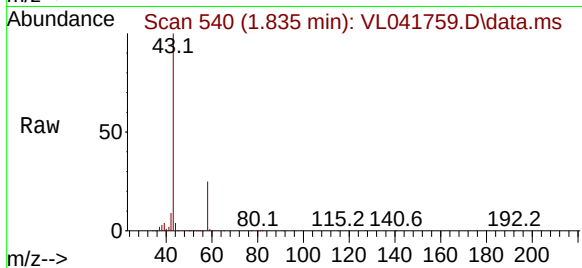
ICVVL121624

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

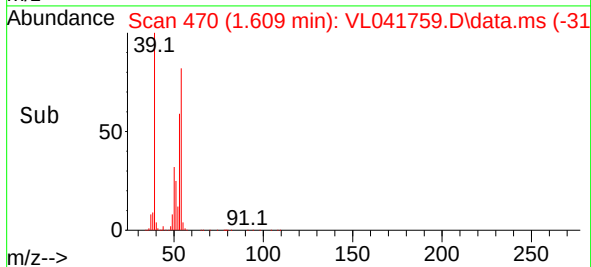
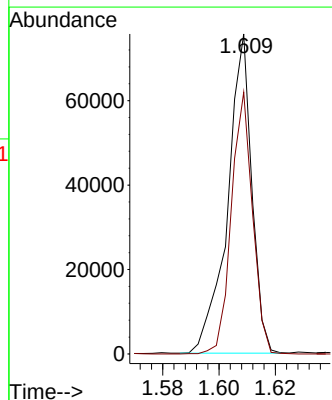
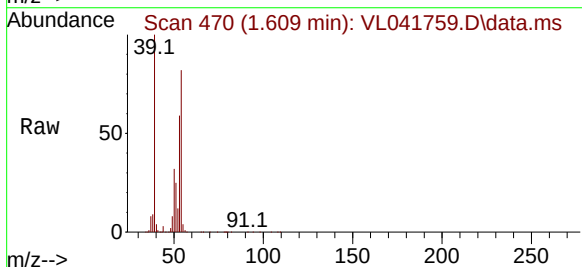
Acq: 16 Dec 2024 18:59

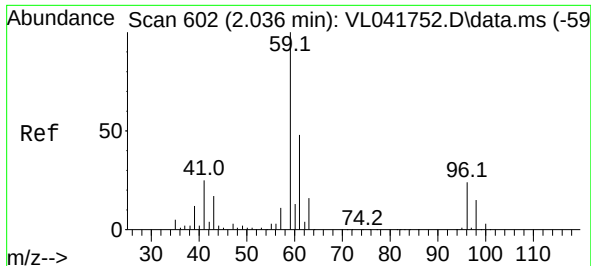
Tgt Ion: 39 Resp: 45119

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 :

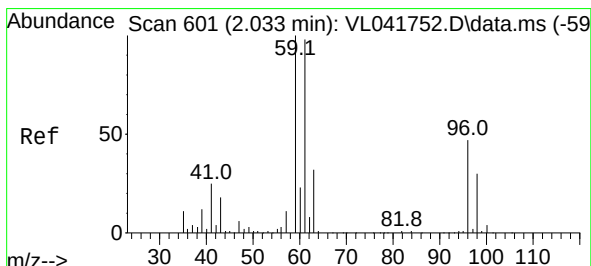
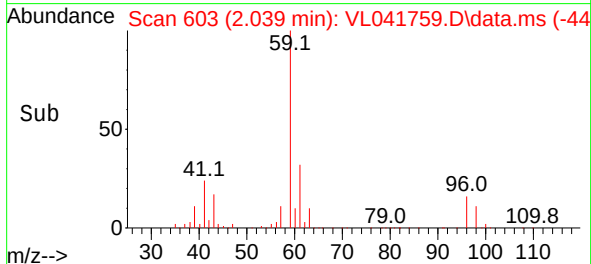
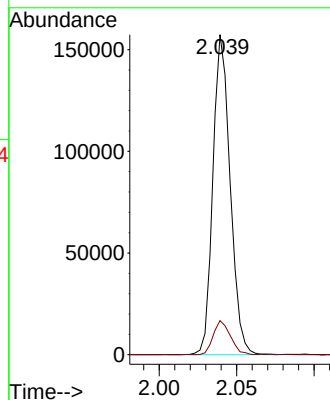
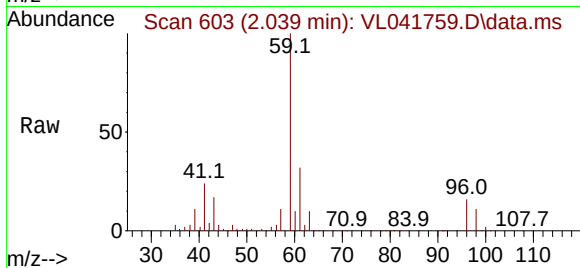
ICVVL121624

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

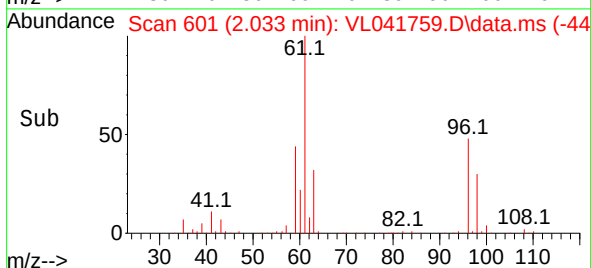
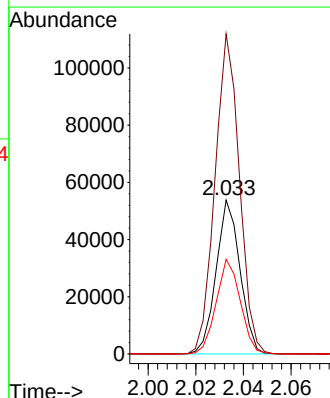
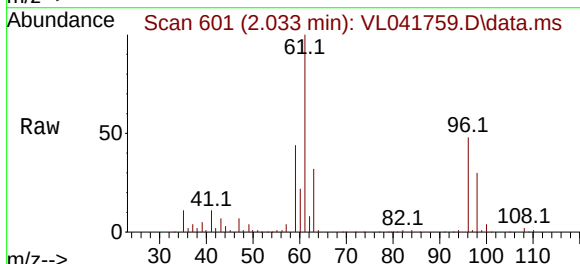
Tgt Ion: 96 Resp: 37466

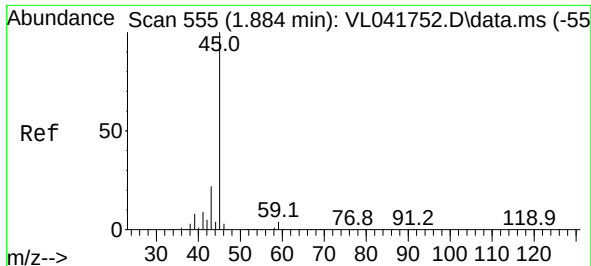
Ion Ratio Lower Upper

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 :

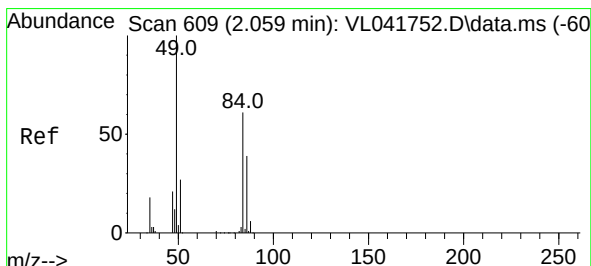
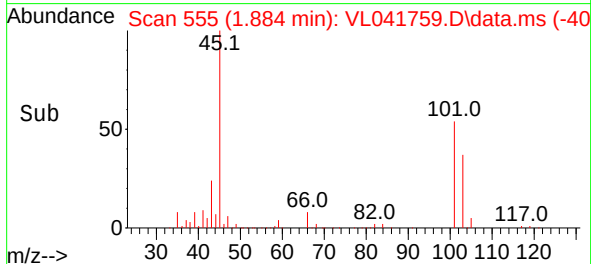
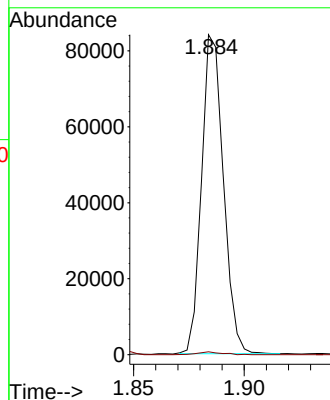
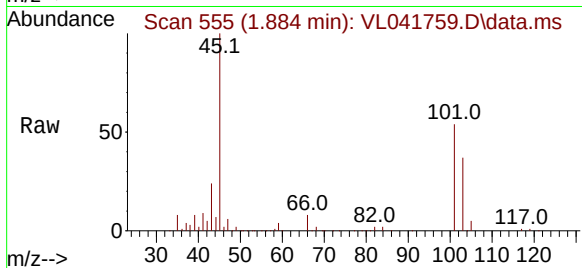
ICVVL121624

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

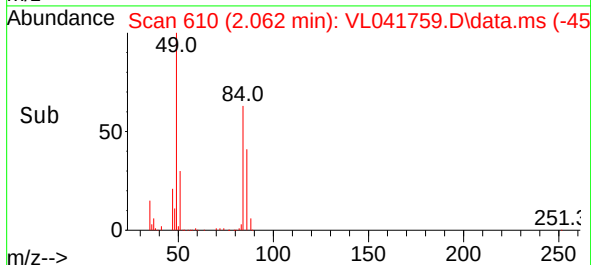
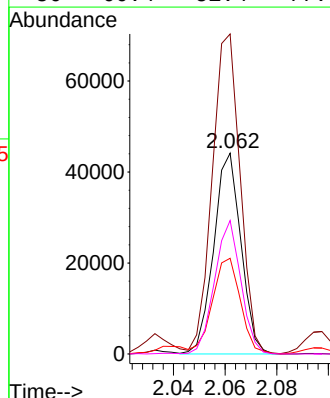
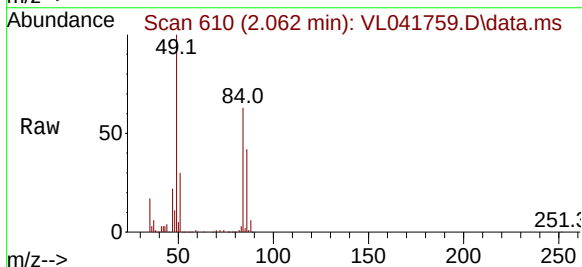
Ion Ratio Lower Upper

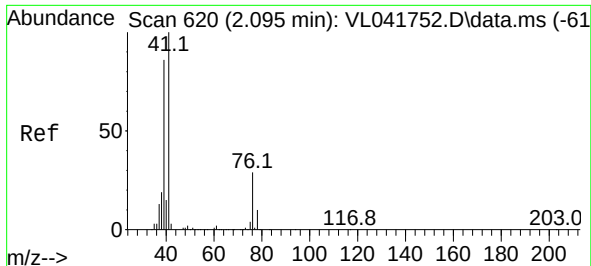
84 100

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

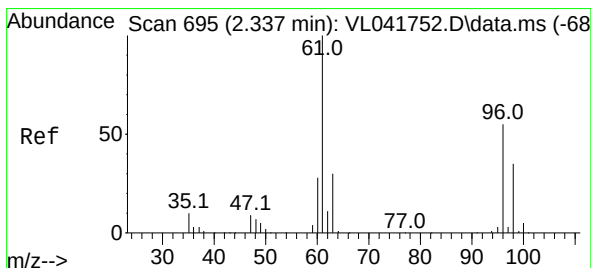
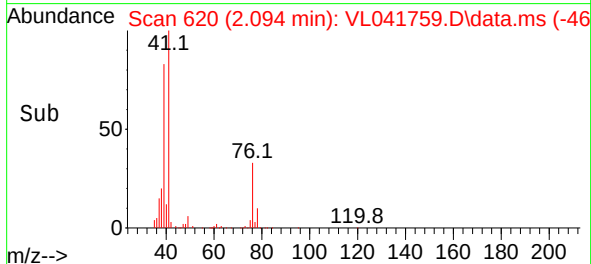
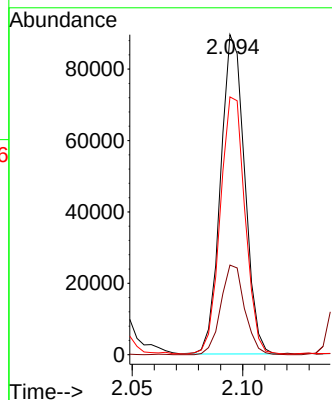
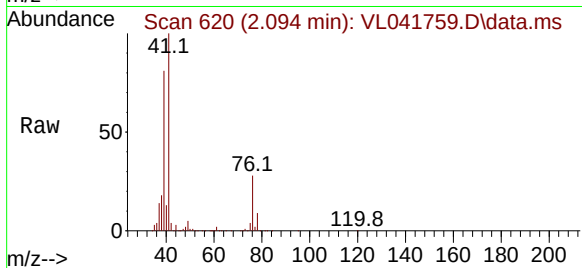
Tgt Ion: 41 Resp: 67596

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

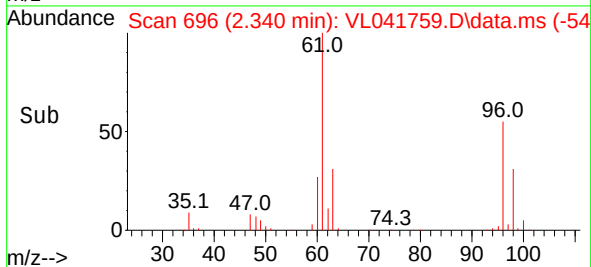
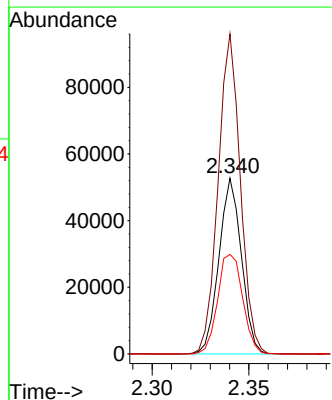
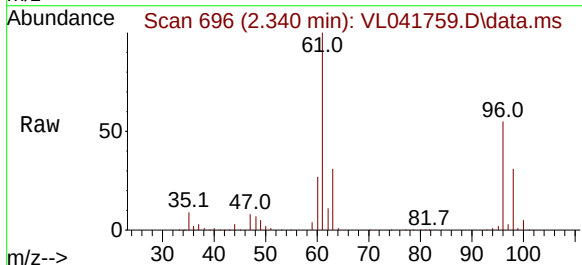
Tgt Ion: 96 Resp: 42651

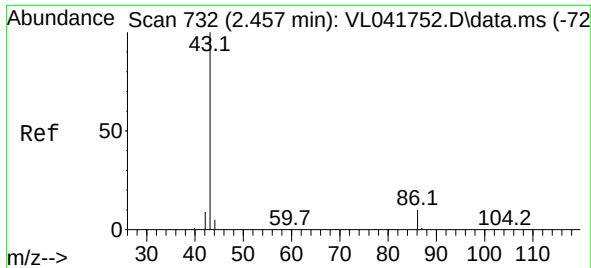
Ion Ratio Lower Upper

96 100

61 182.2 146.3 219.5

98 56.7 50.8 76.2

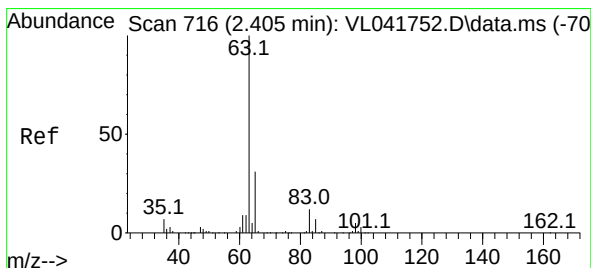
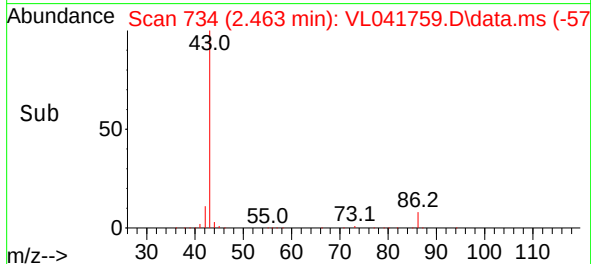
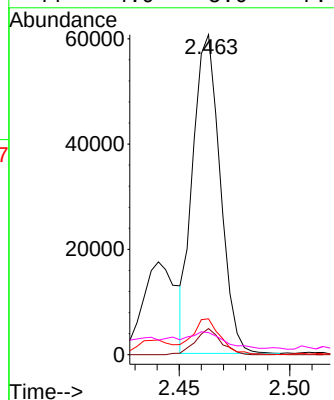
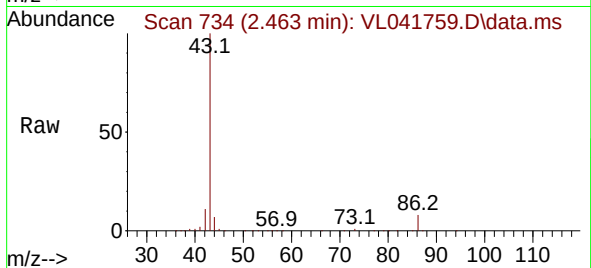




#23
 Vinyl Acetate
 Concen: 8.826 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

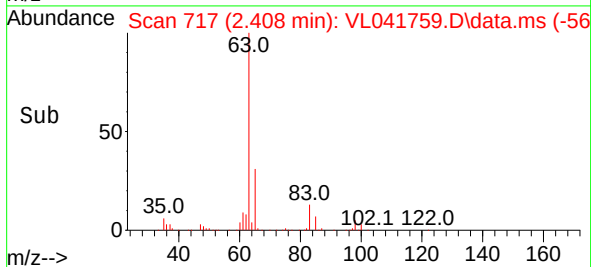
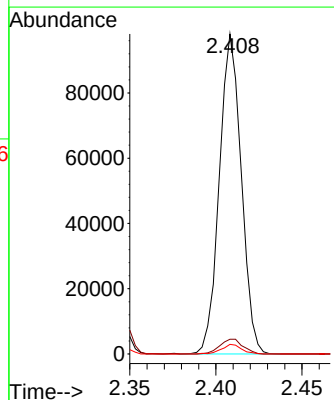
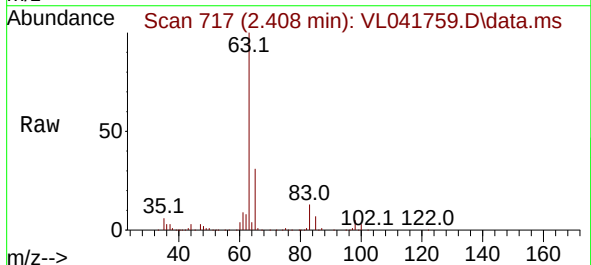
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL121624

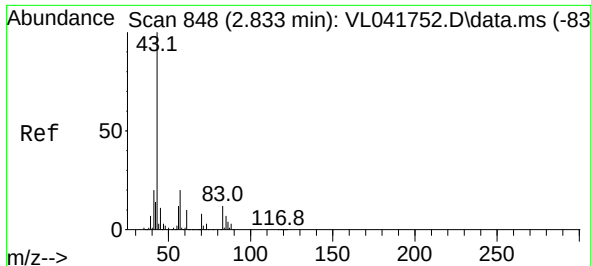
Tgt Ion:	43	Resp:	51812
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.6	10.0
42	11.2	8.2	12.2
44	4.9	5.0	7.4



#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# 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

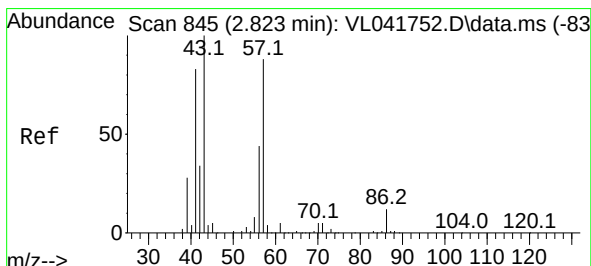
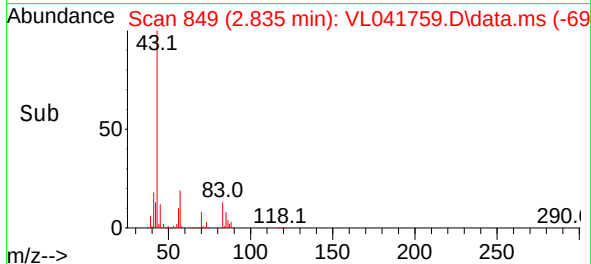
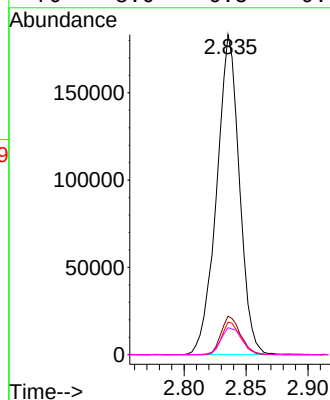
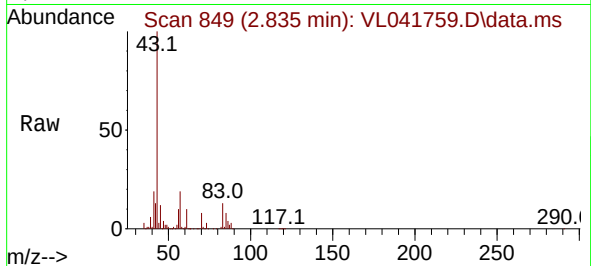
Ion Ratio Lower Upper

43 100

45 10.2 8.1 12.1

61 8.6 7.0 10.6

70 8.0 6.5 9.7



#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

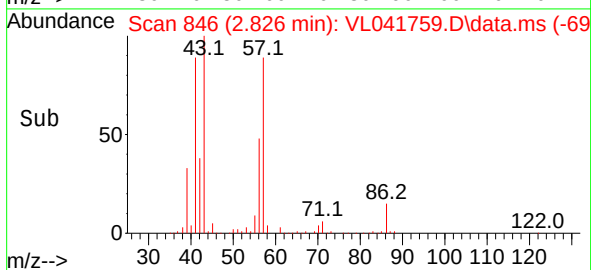
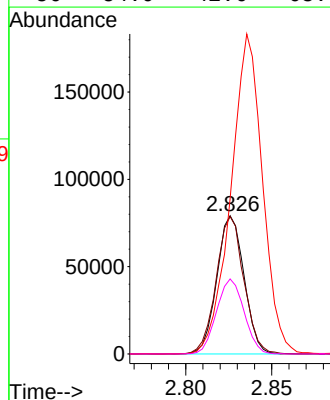
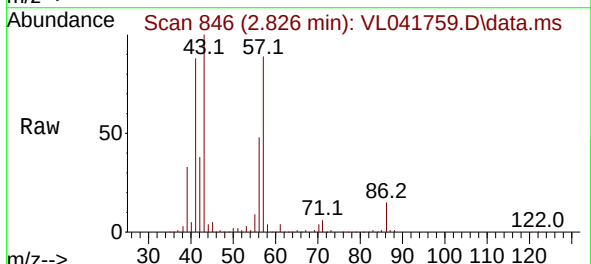
Ion Ratio Lower Upper

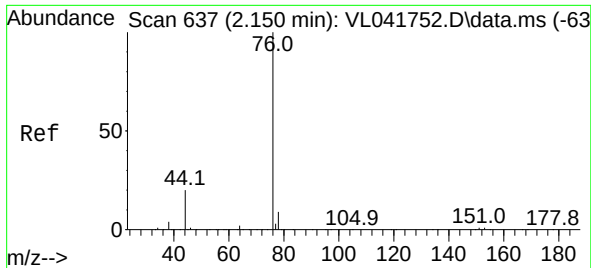
57 100

41 101.5 79.6 119.4

43 270.5 211.0 316.6

56 54.9 42.6 63.8

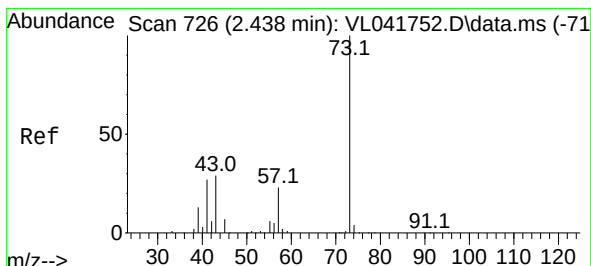
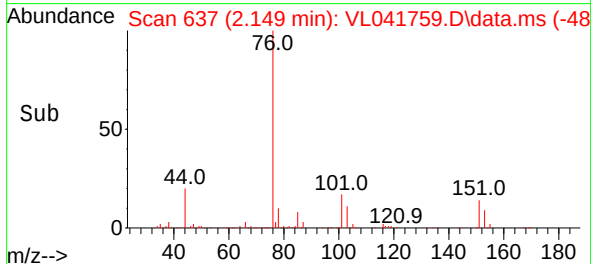
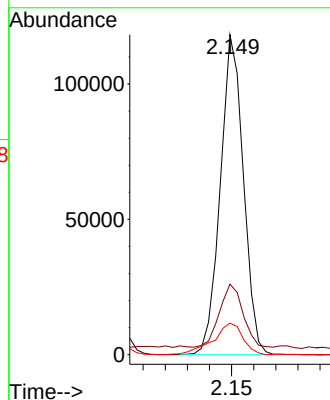
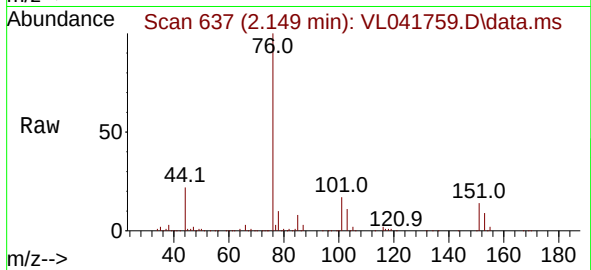




#27
Carbon Disulfide
Concen: 10.649 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

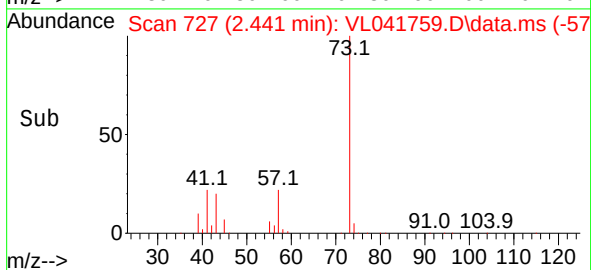
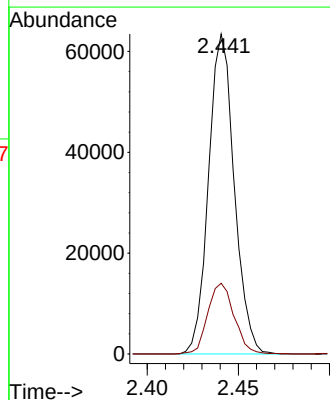
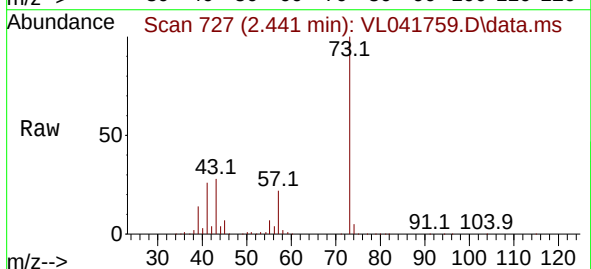
Instrument :
MSVOA_1
ClientSampleId :
ICVVL121624

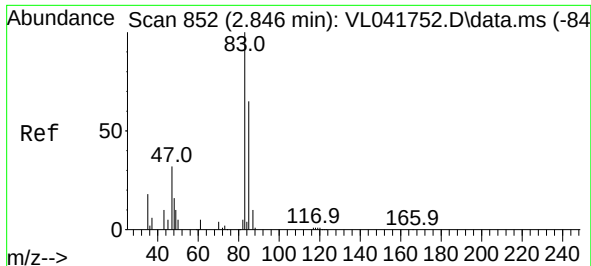
Tgt Ion: 76 Resp: 85650
Ion Ratio Lower Upper
76 100
44 22.3 17.6 26.4
78 12.9 10.2 15.4



#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 :

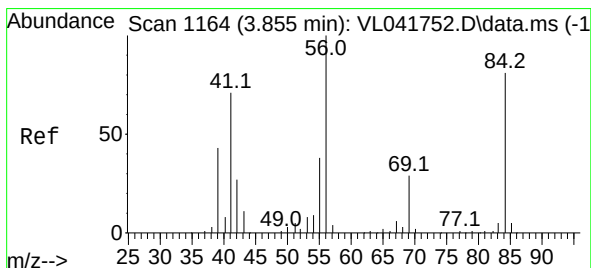
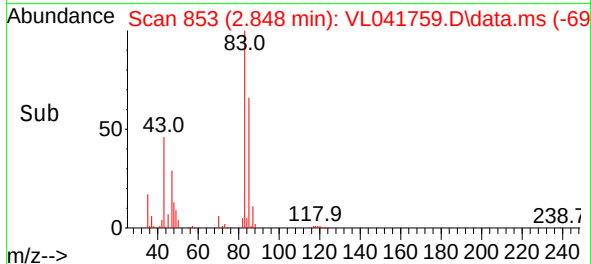
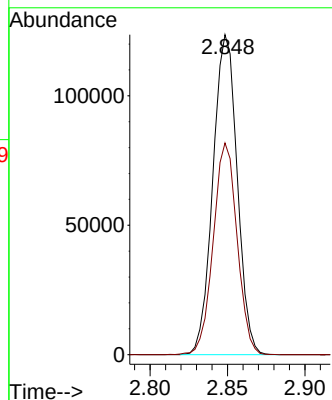
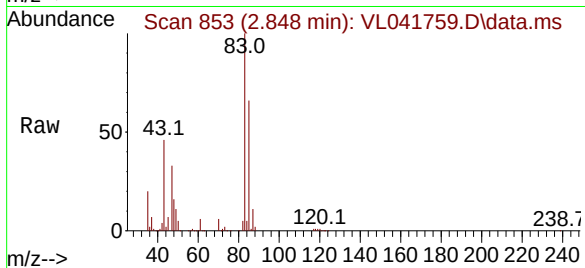
ICVVL121624

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

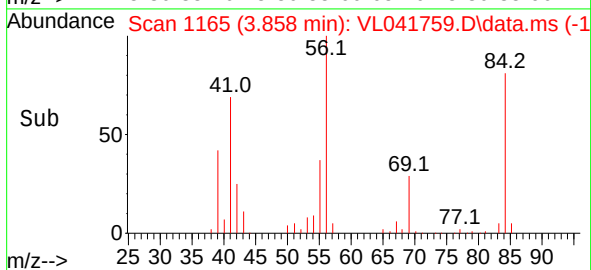
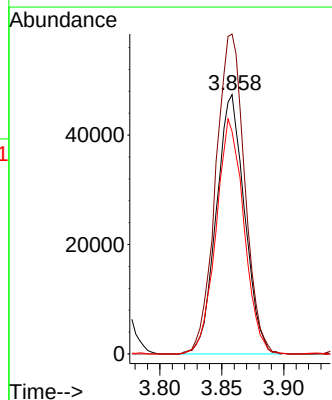
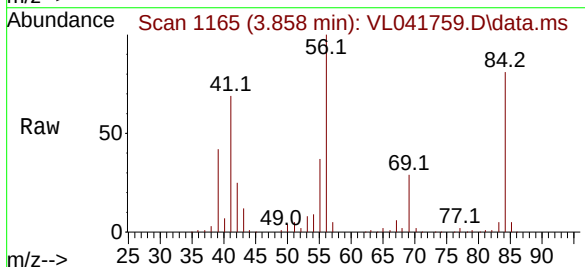
Tgt Ion: 84 Resp: 75274

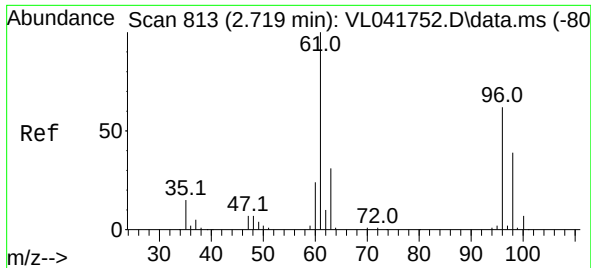
Ion Ratio Lower Upper

84 100

56 126.5 102.3 153.5

41 89.3 74.0 111.0

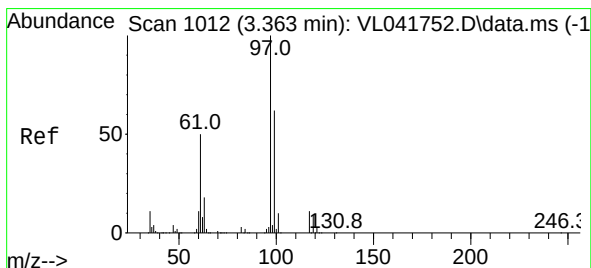
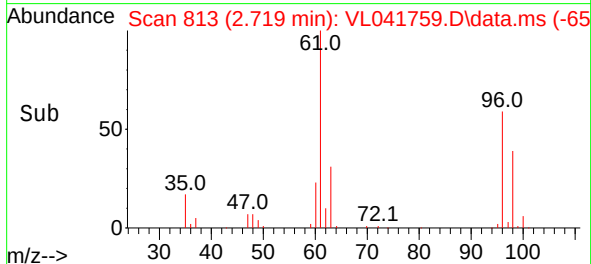
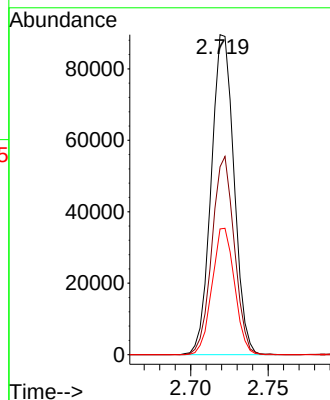
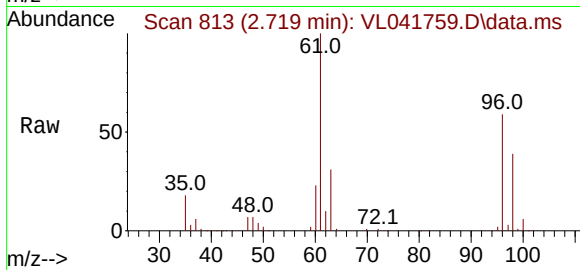




#31
 cis-1,2-Dichloroethene
 Concen: 9.935 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

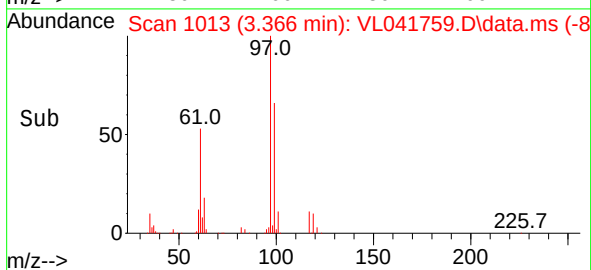
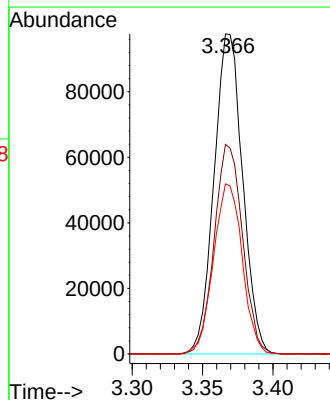
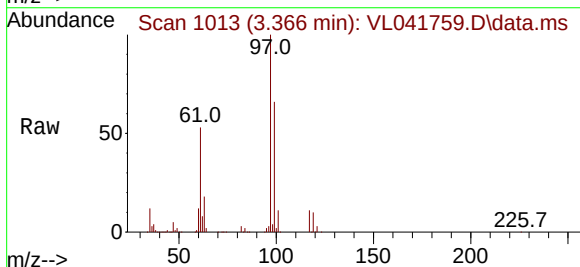
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL121624

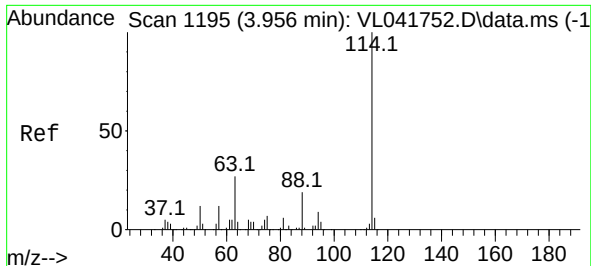
Tgt Ion: 61 Resp: 91628
 Ion Ratio Lower Upper
 61 100
 96 58.7 49.7 74.5
 98 39.3 30.8 46.2



#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

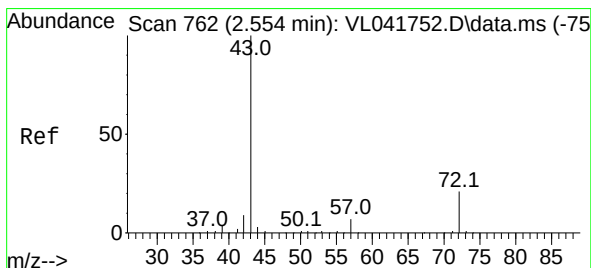
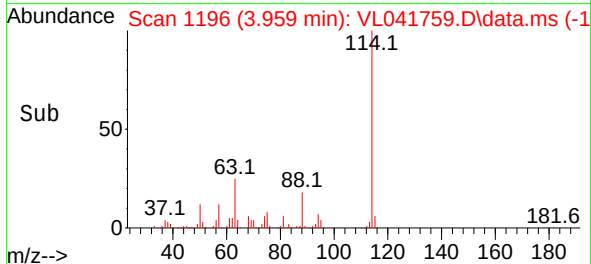
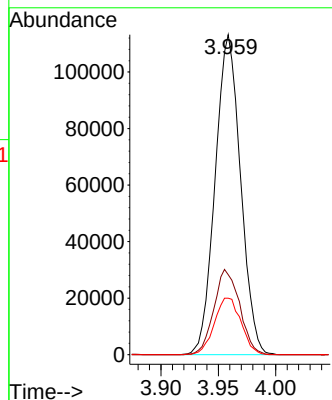
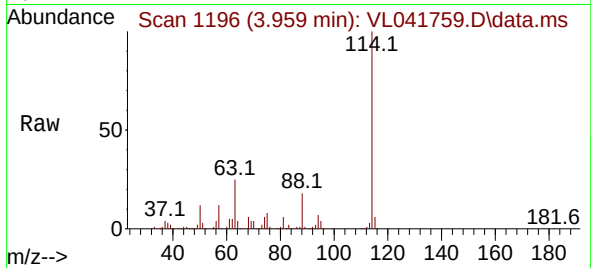




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.003 min
 Lab File: VL041759.D
 Acq: 16 Dec 2024 18:59

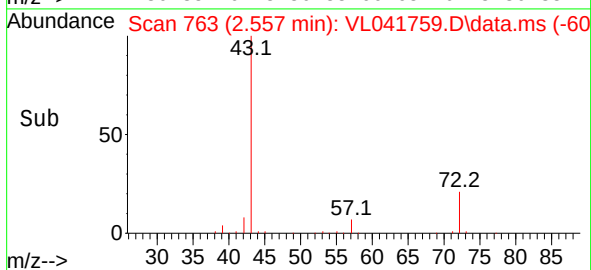
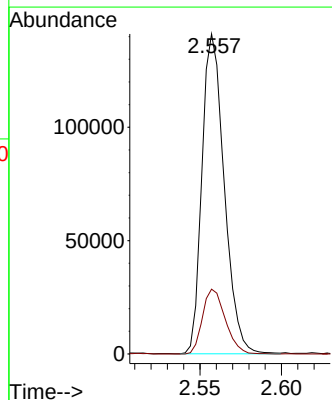
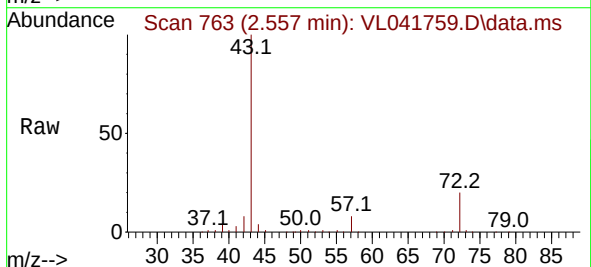
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

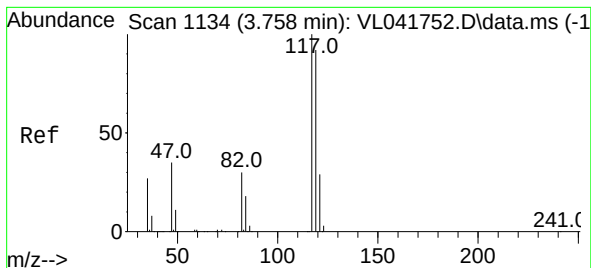
Tgt Ion:114 Resp: 174378
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.8 32.8
 88 18.6 14.8 22.2



#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

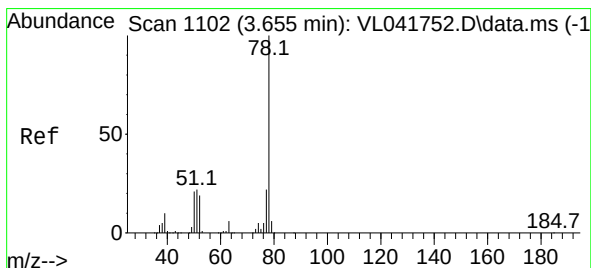
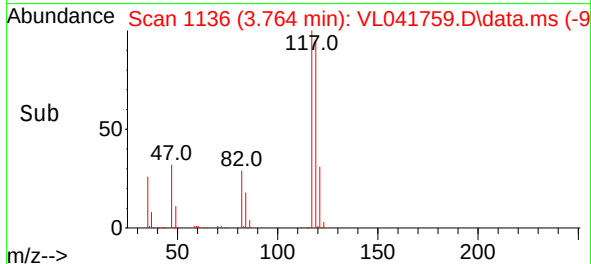
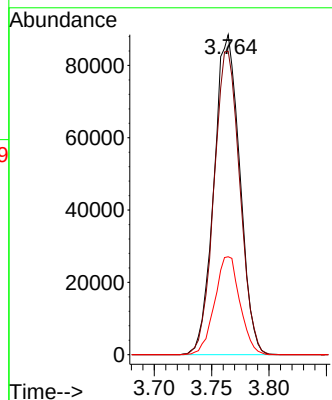
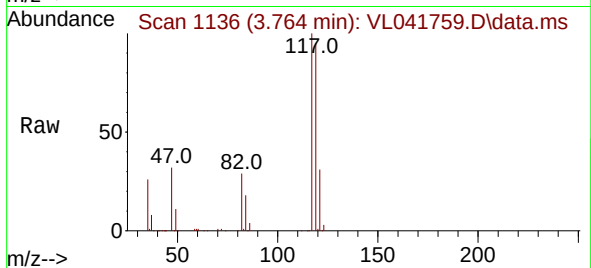
Tgt Ion:117 Resp: 138537

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

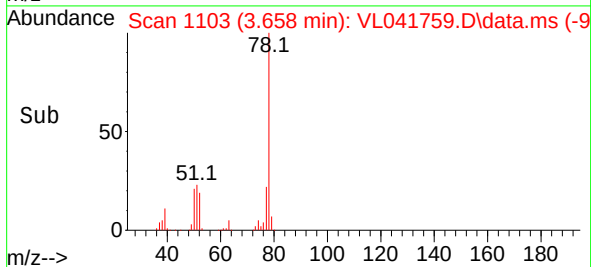
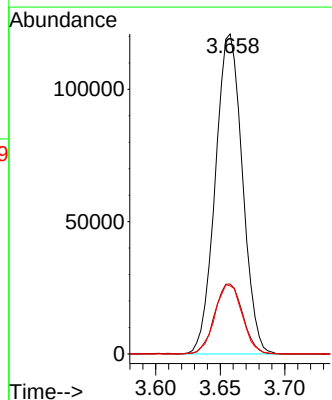
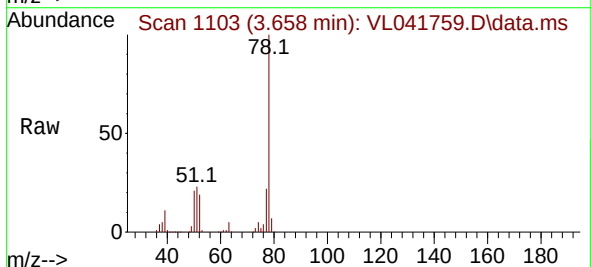
Tgt Ion: 78 Resp: 176537

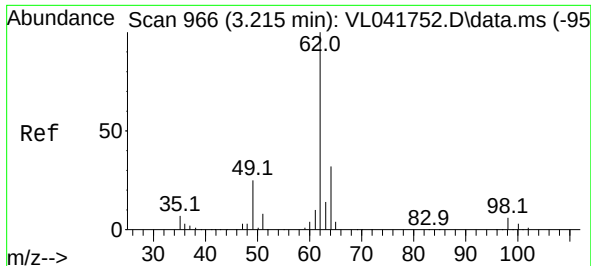
Ion Ratio Lower Upper

78 100

77 21.8 17.8 26.6

50 21.3 17.2 25.8

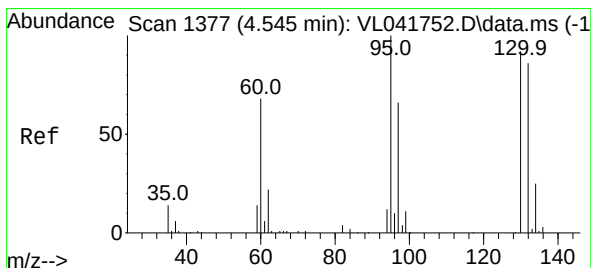
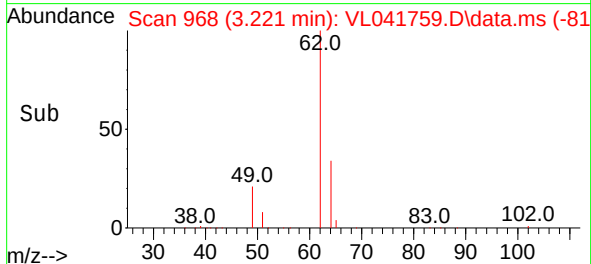
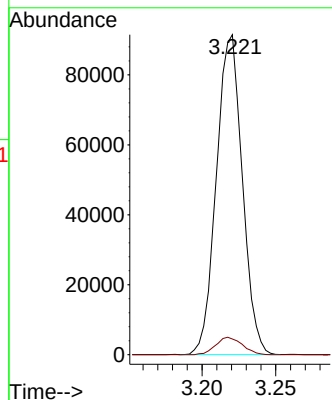
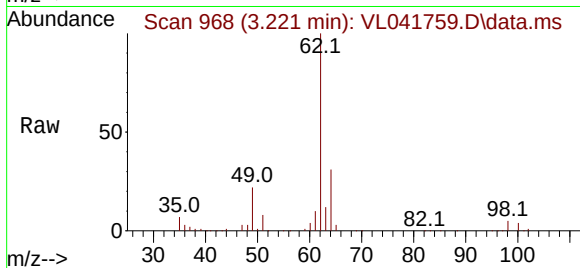




#37
1,2-Dichloroethane
Concen: 9.982 ppbv
RT: 3.221 min Scan# 90
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

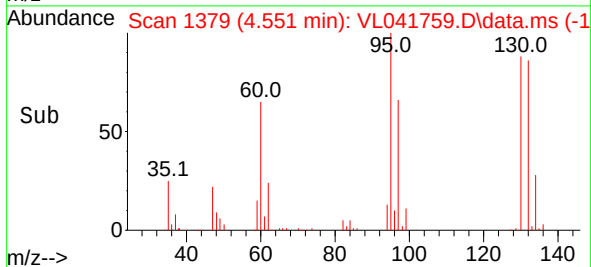
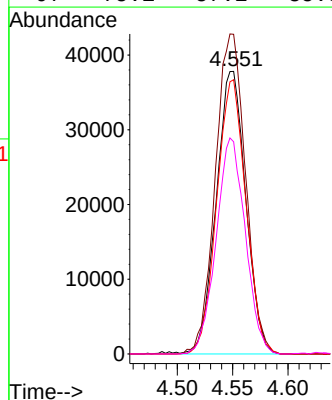
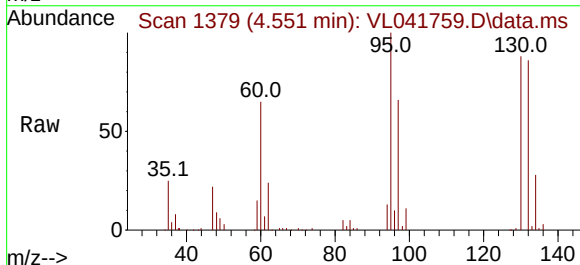
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

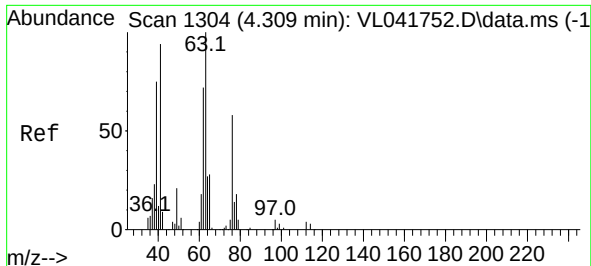
Tgt Ion: 62 Resp: 112037
Ion Ratio Lower Upper
62 100
98 5.5 4.7 7.1



#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# 1307

Delta R.T. 0.009 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624

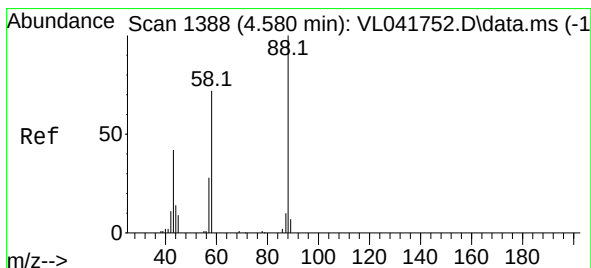
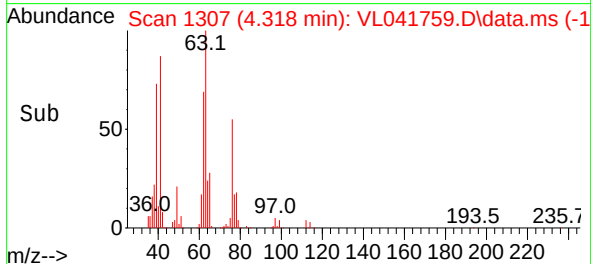
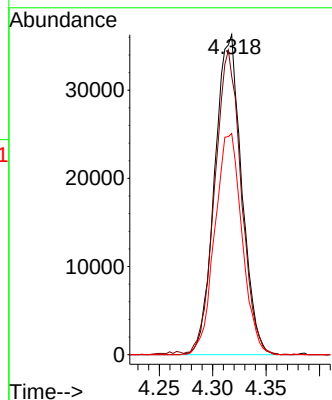
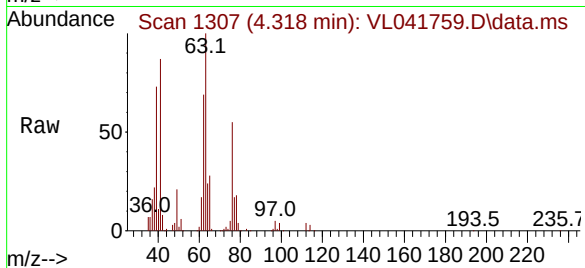
Tgt Ion: 63 Resp: 63675

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

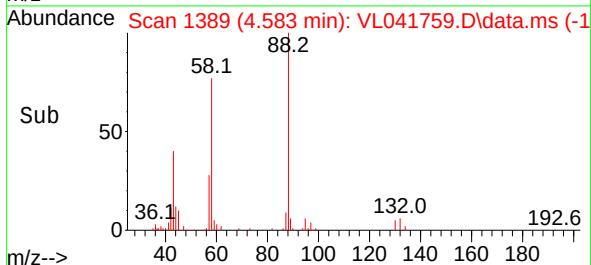
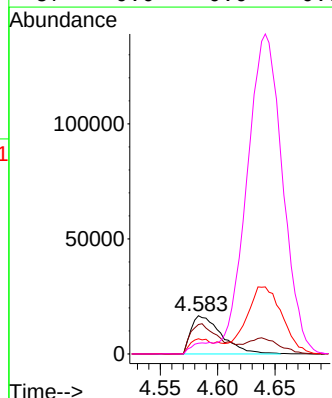
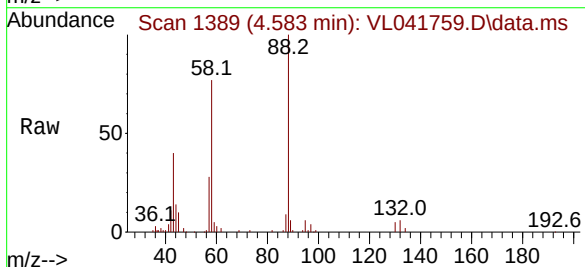
Ion Ratio Lower Upper

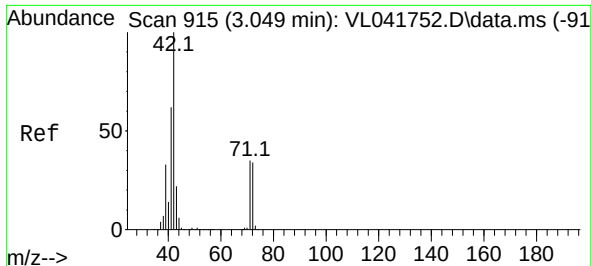
88 100

58 76.6 61.0 91.6

43 39.2 29.4 44.0

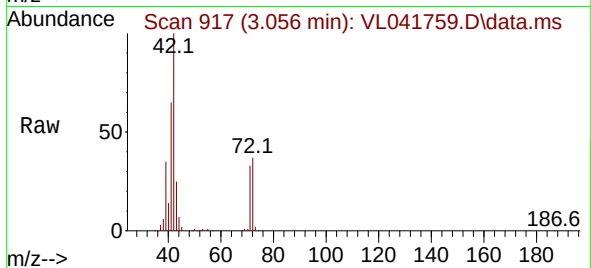
57 0.0 0.0 0.0



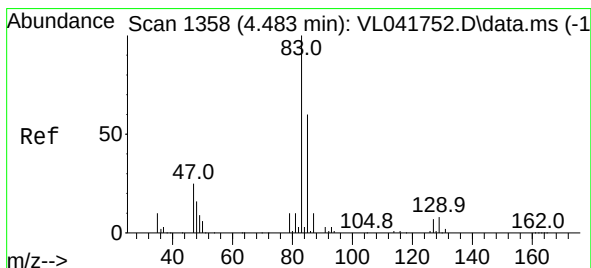
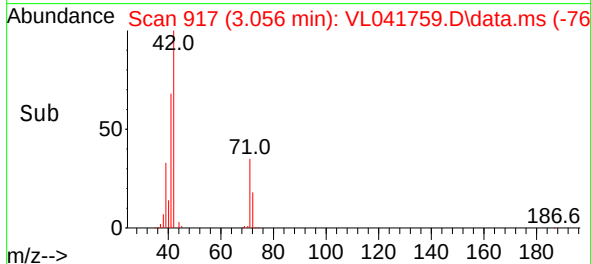
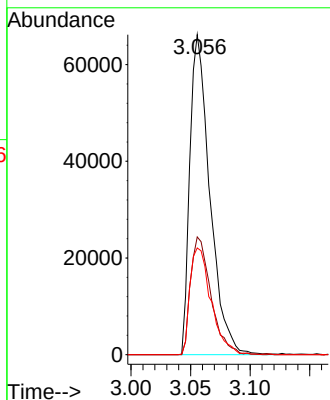


#41
Tetrahydrofuran
Concen: 9.857 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

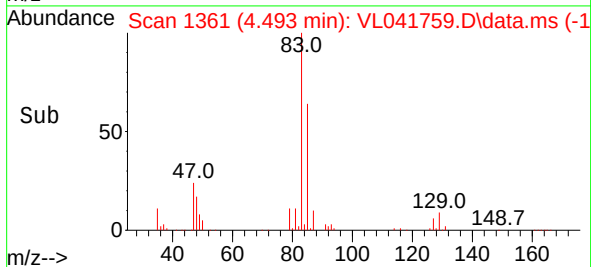
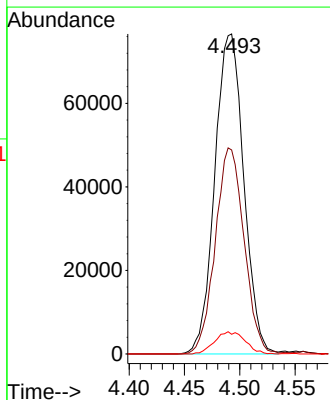
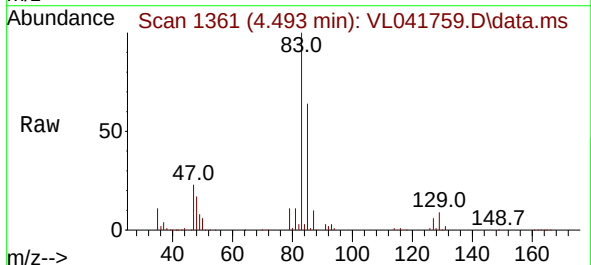


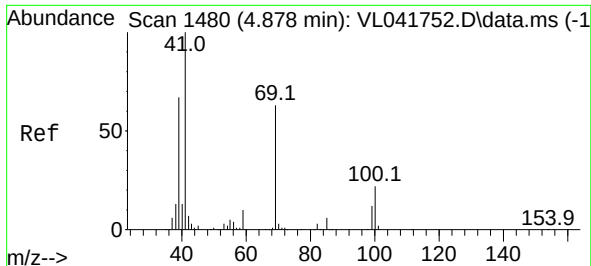
Tgt Ion: 42 Resp: 77472
Ion Ratio Lower Upper
42 100
72 37.5 29.1 43.7
71 35.4 28.4 42.6



#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_1

ClientSampleId :

ICVVL121624

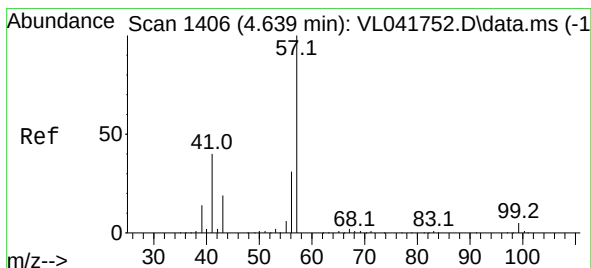
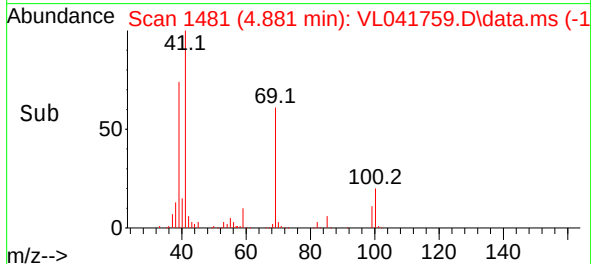
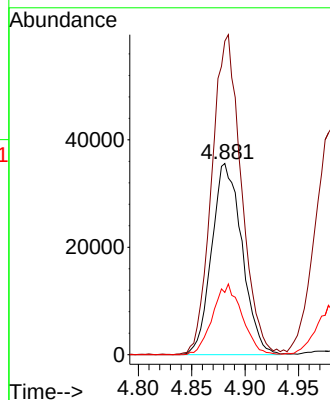
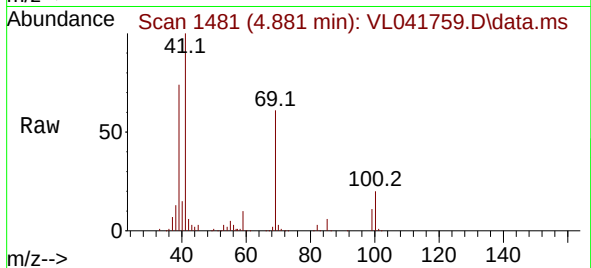
Tgt Ion: 69 Resp: 70299

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

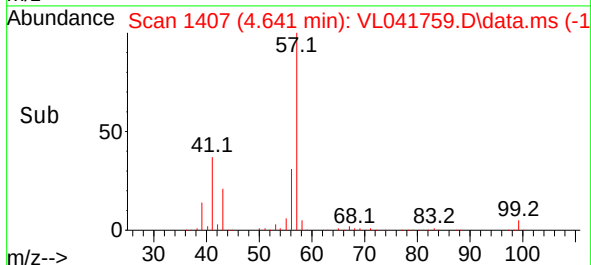
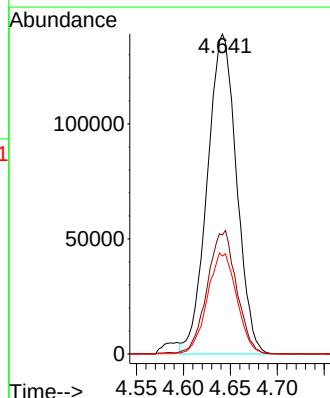
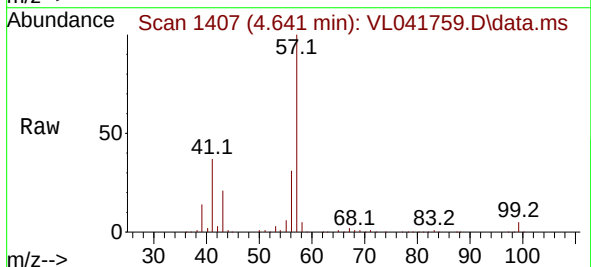
Tgt Ion: 57 Resp: 301772

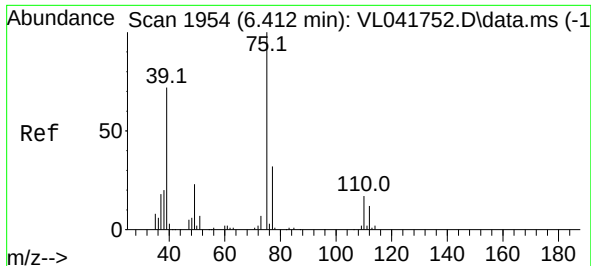
Ion Ratio Lower Upper

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 :

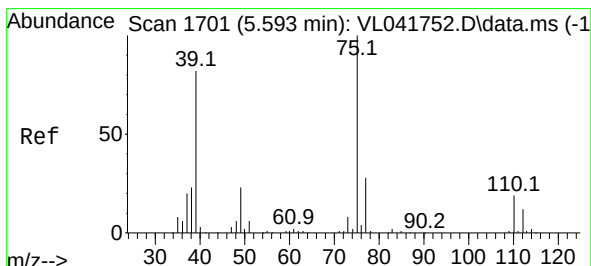
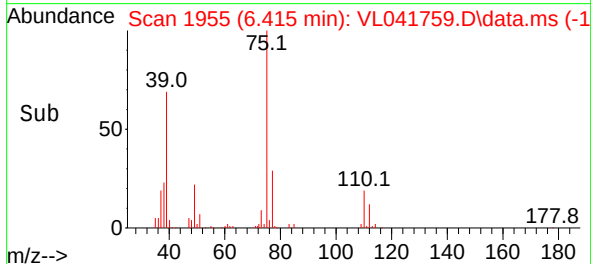
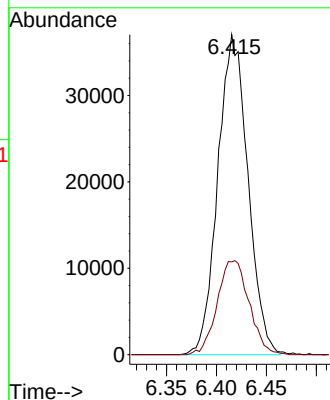
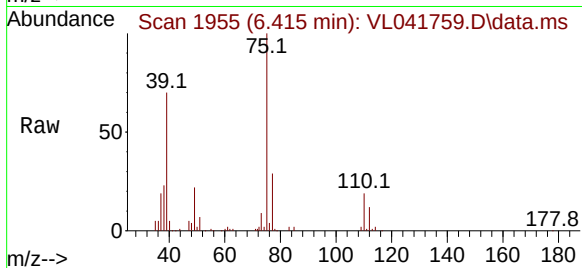
ICVVL121624

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

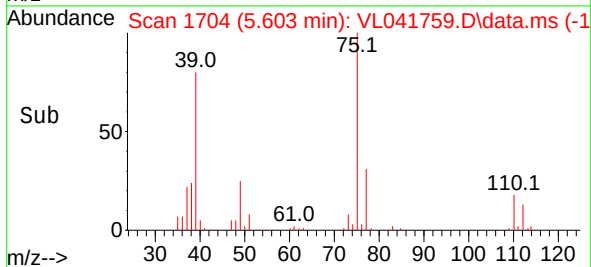
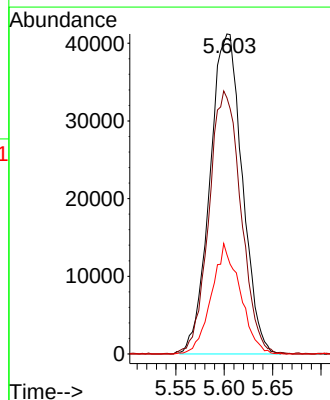
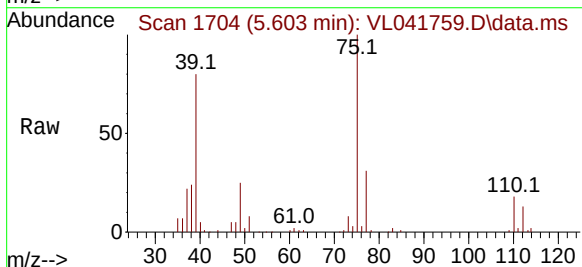
Tgt Ion: 75 Resp: 95812

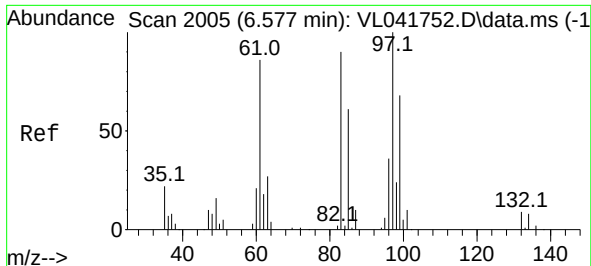
Ion Ratio Lower Upper

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_L

ClientSampleId :

ICVVL121624

Tgt Ion: 97 Resp: 37758

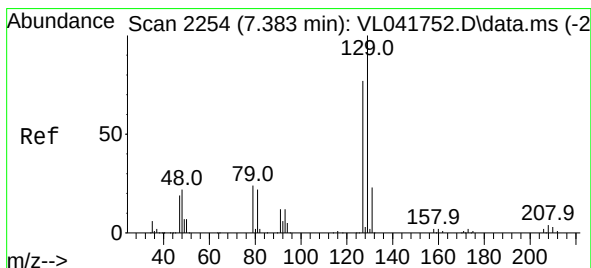
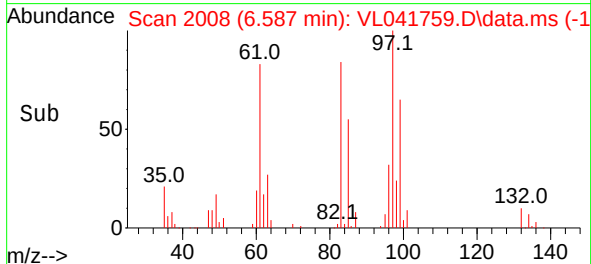
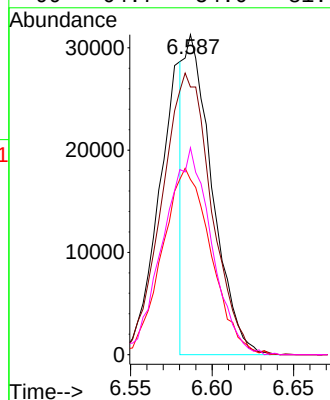
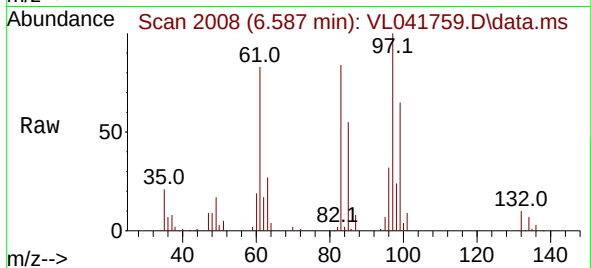
Ion Ratio Lower Upper

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

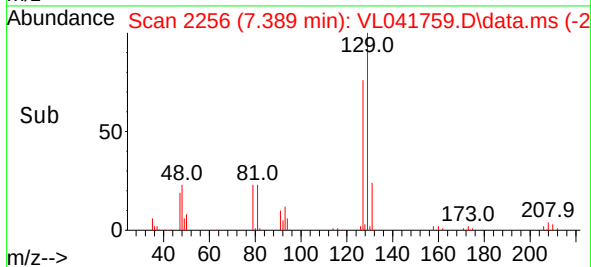
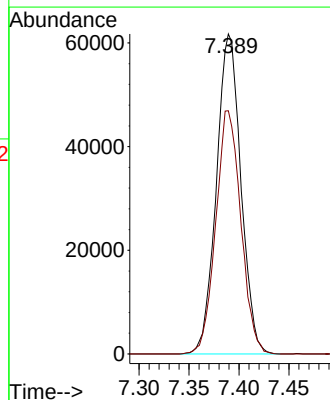
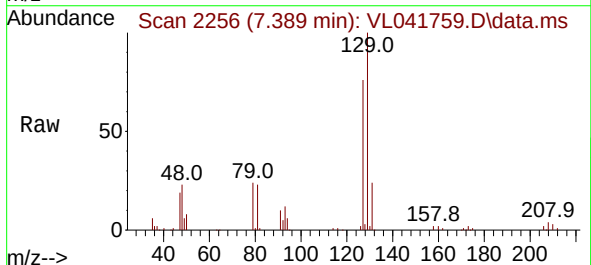
Acq: 16 Dec 2024 18:59

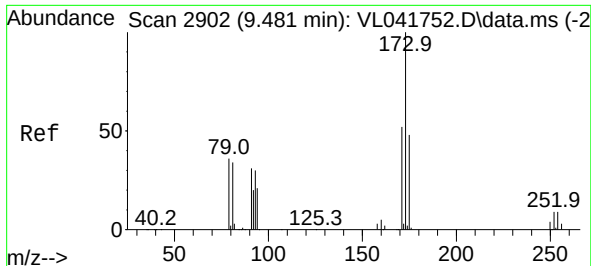
Tgt Ion: 129 Resp: 105378

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

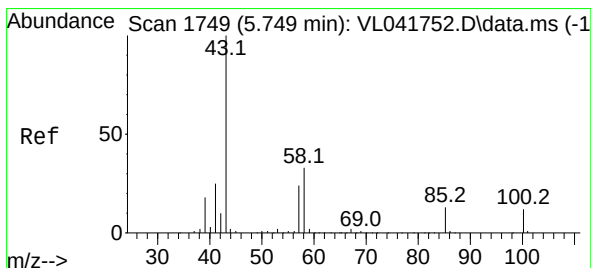
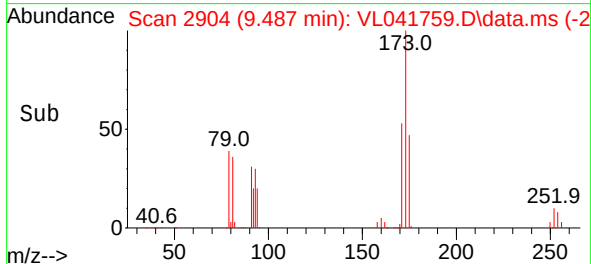
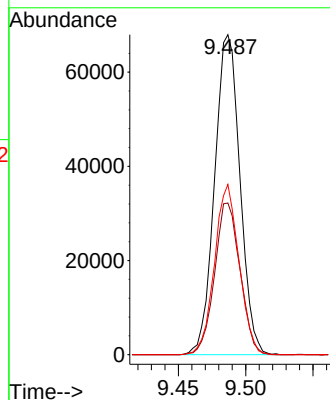
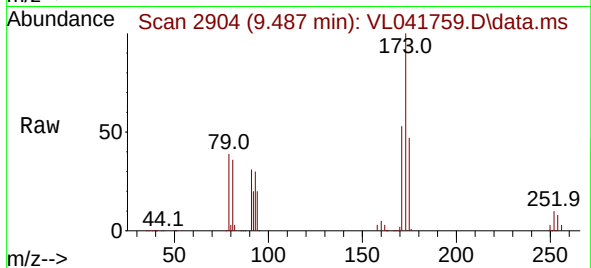
Tgt Ion:173 Resp: 88971

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

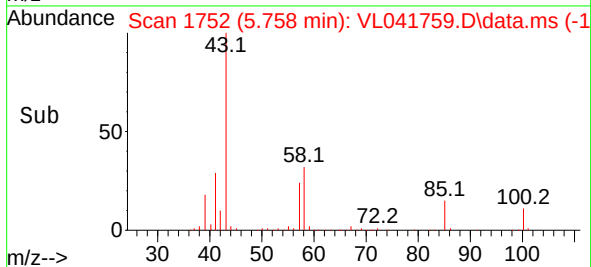
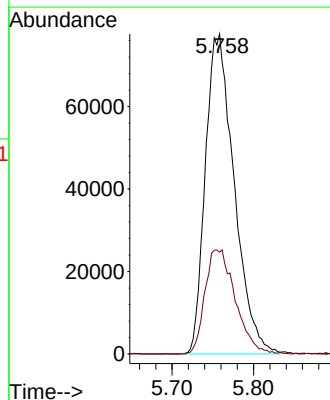
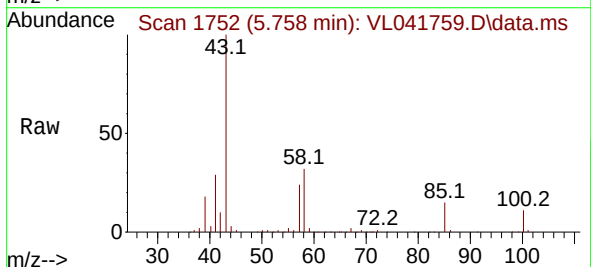
Acq: 16 Dec 2024 18:59

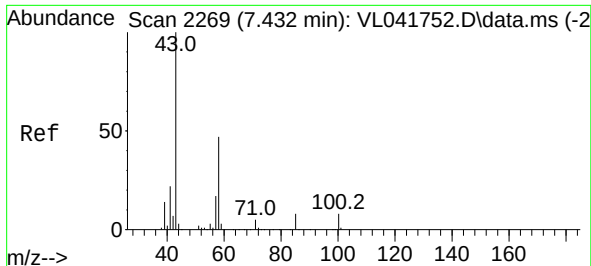
Tgt Ion: 43 Resp: 190637

Ion Ratio Lower Upper

43 100

58 34.3 26.8 40.2

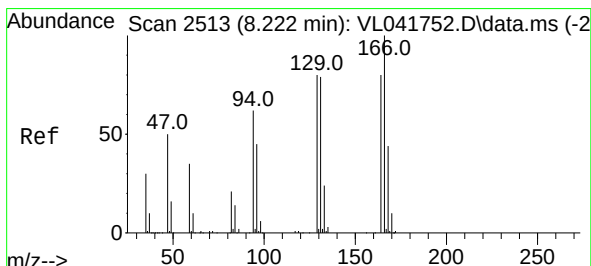
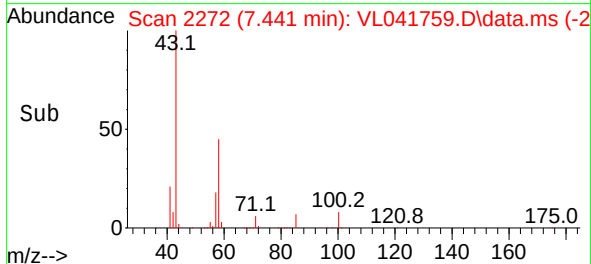
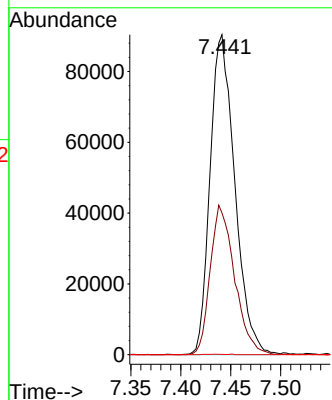
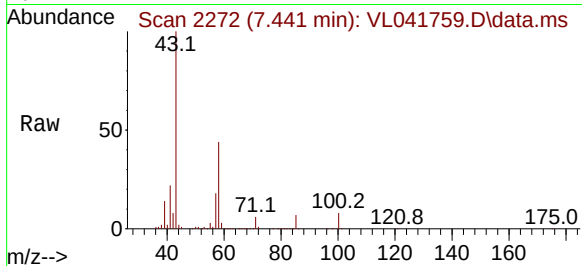




#51
2-Hexanone
Concen: 10.053 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

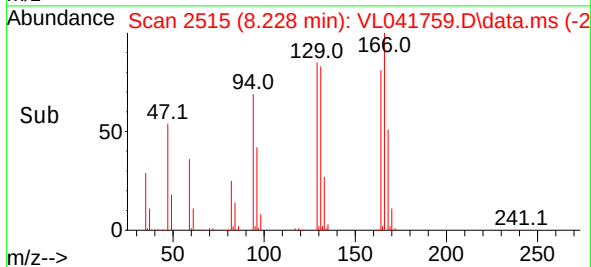
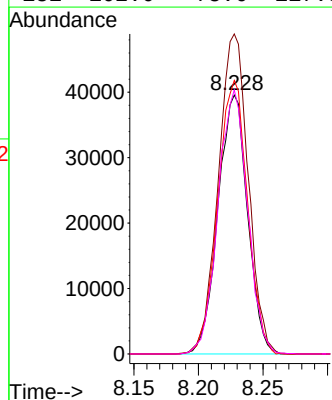
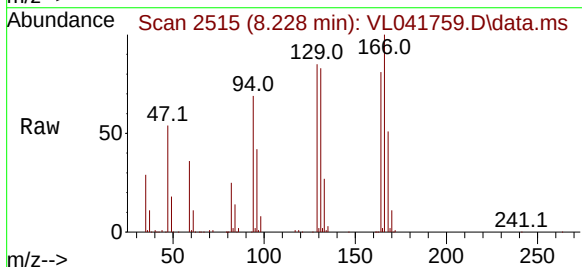
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

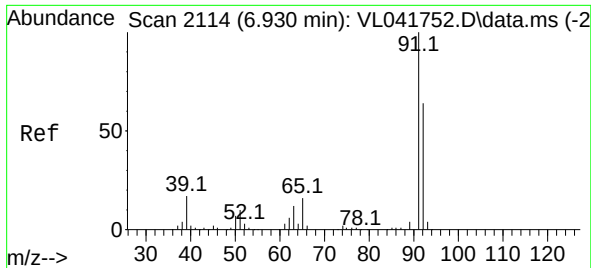
Tgt Ion: 43 Resp: 155646
Ion Ratio Lower Upper
43 100
58 46.0 36.6 55.0
98 0.1 0.1 0.1#



#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 :

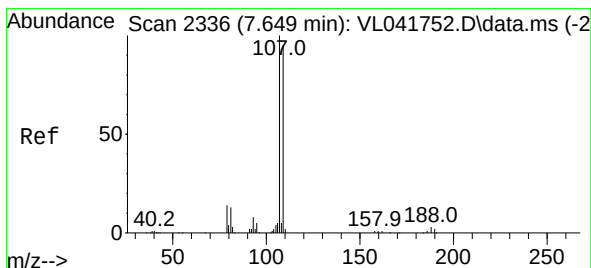
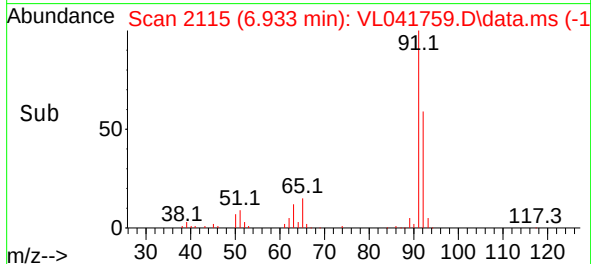
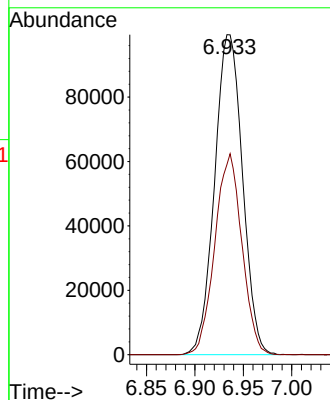
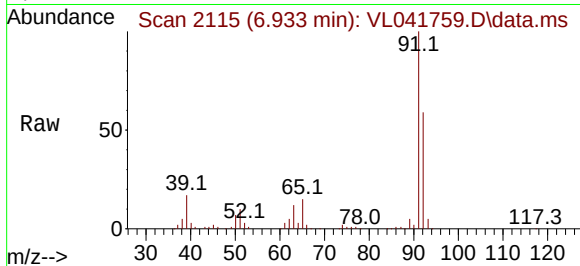
ICVVL121624

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

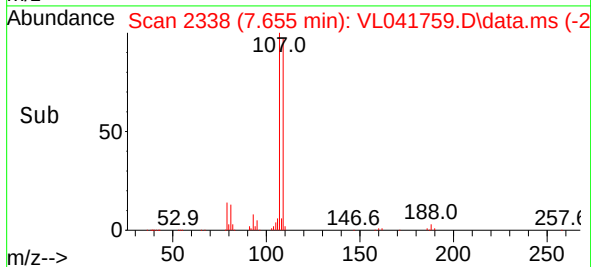
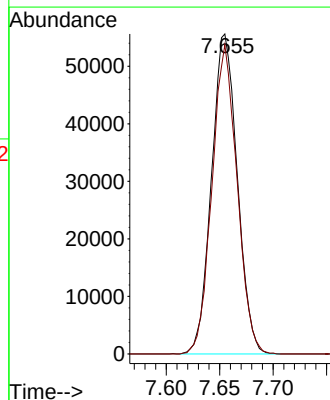
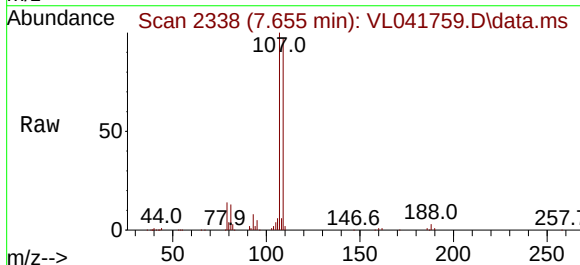
Acq: 16 Dec 2024 18:59

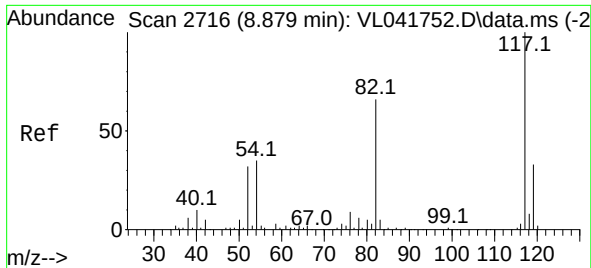
Tgt Ion: 107 Resp: 93439

Ion Ratio Lower Upper

107 100

109 96.6 75.9 113.9

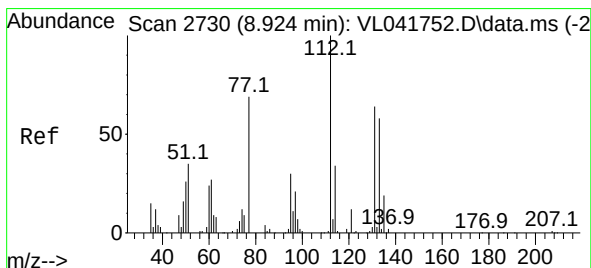
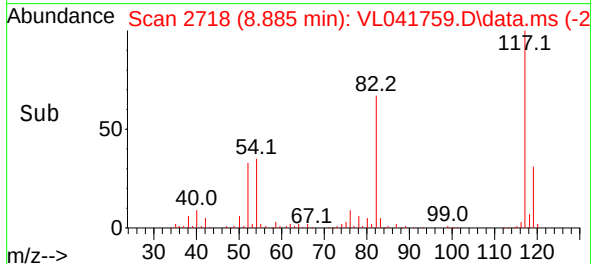
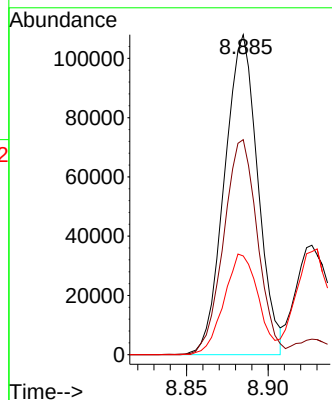
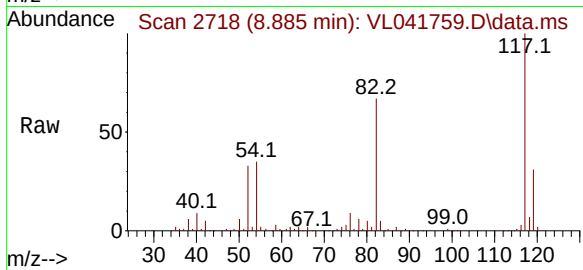




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

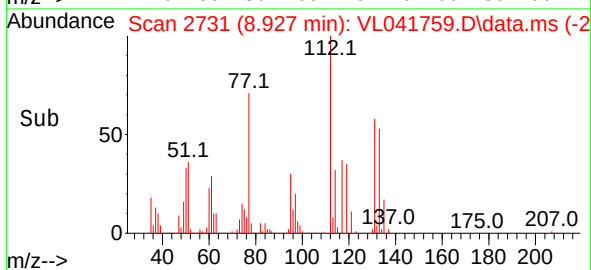
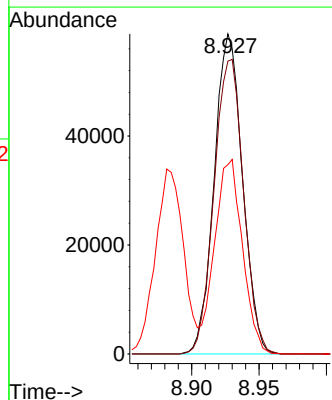
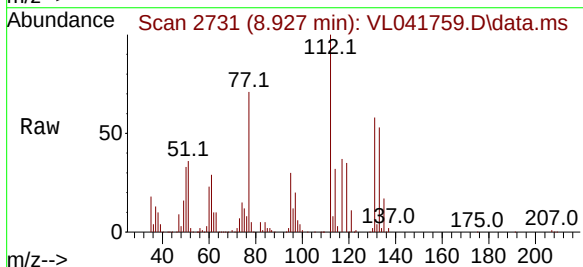
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

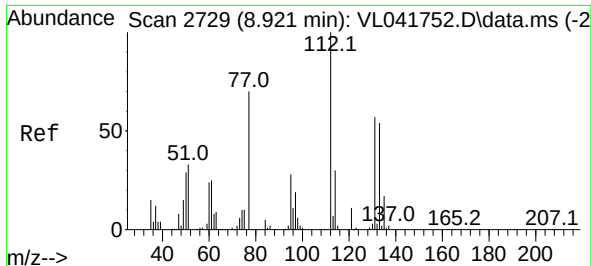
Tgt Ion:117 Resp: 153443
Ion Ratio Lower Upper
117 100
82 73.4 53.8 80.8
119 32.8 26.7 40.1



#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

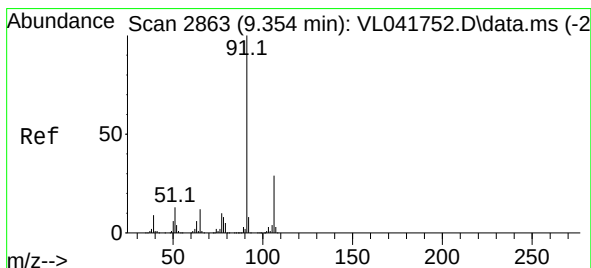
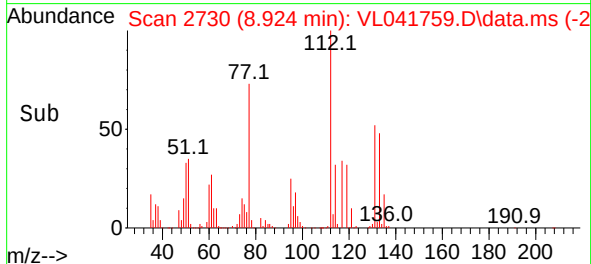
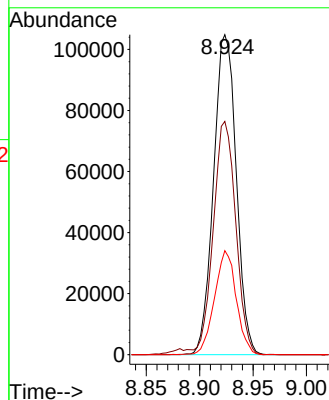
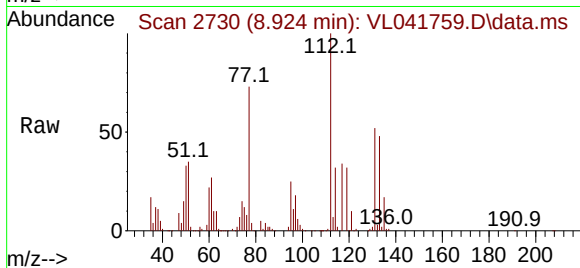
Tgt Ion:112 Resp: 155257

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

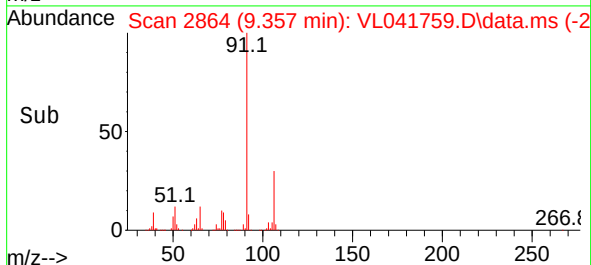
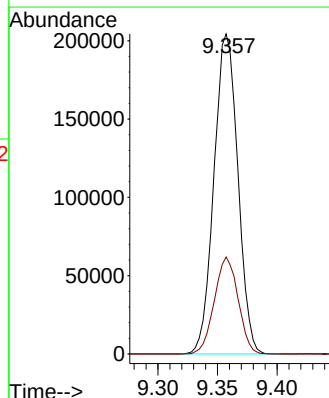
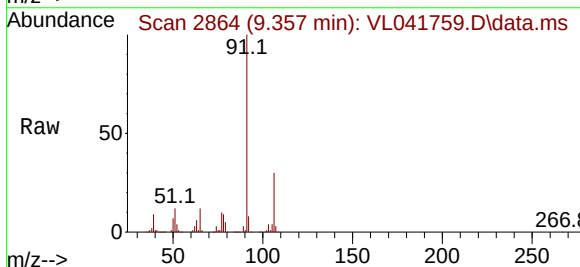
Acq: 16 Dec 2024 18:59

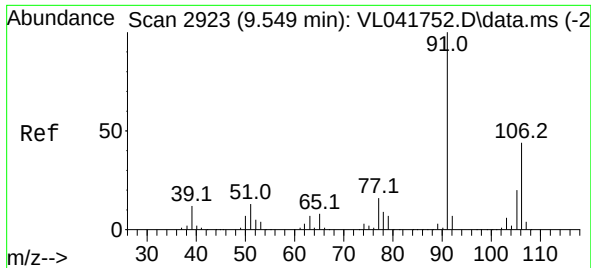
Tgt Ion: 91 Resp: 284770

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_1

ClientSampleId :

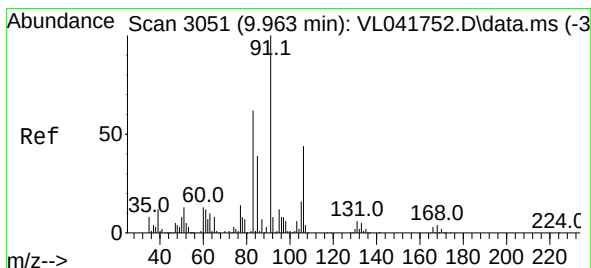
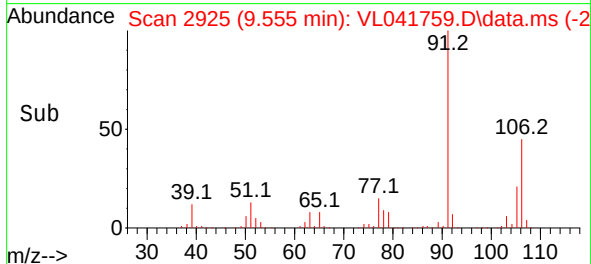
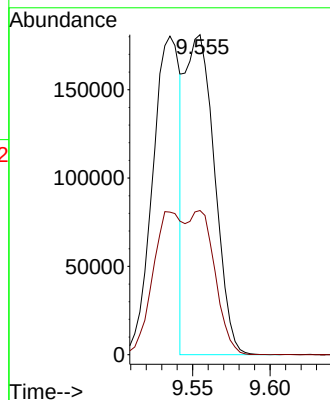
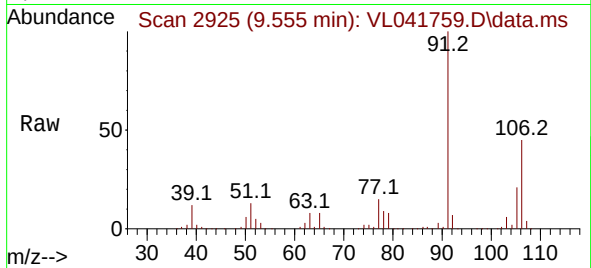
ICVVL121624

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

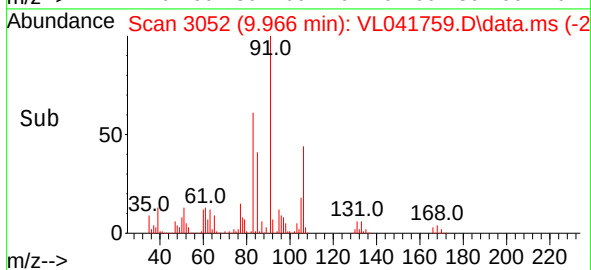
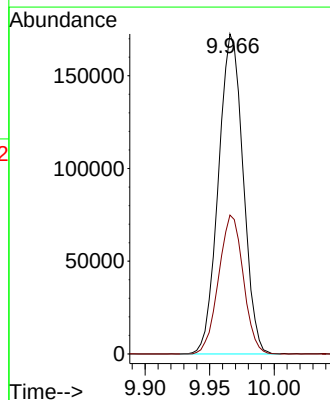
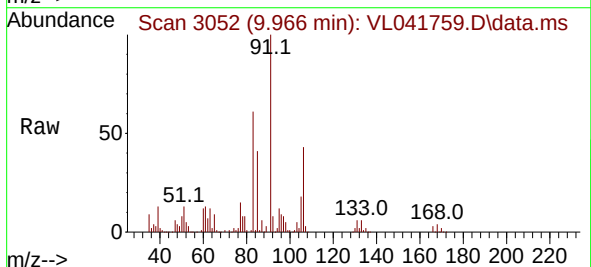
Acq: 16 Dec 2024 18:59

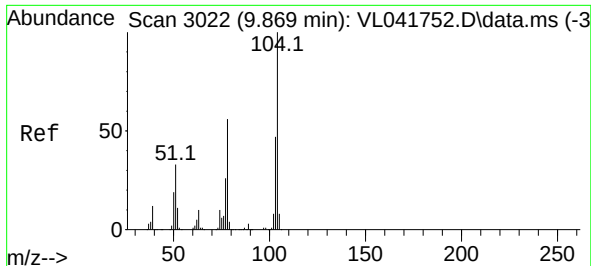
Tgt Ion: 91 Resp: 229517

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_1

ClientSampleId :

ICVVL121624

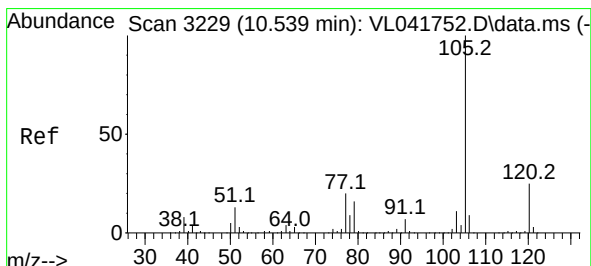
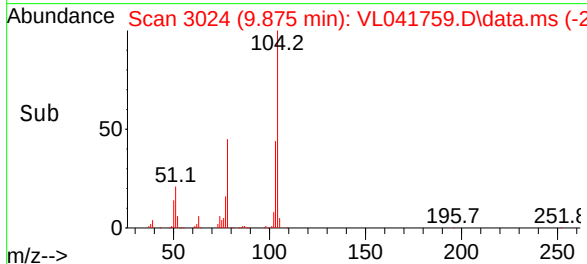
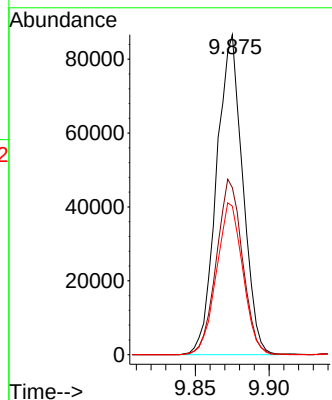
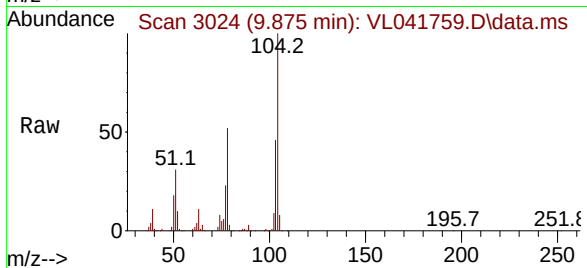
Tgt Ion:104 Resp: 106841

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

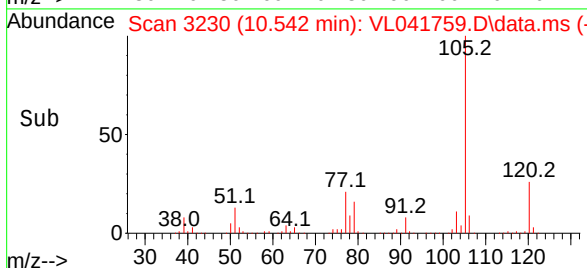
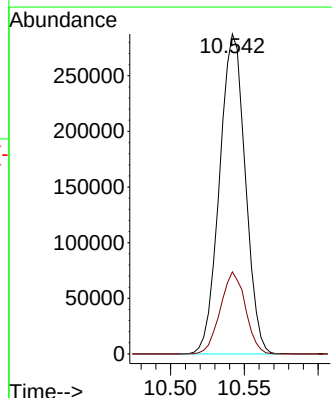
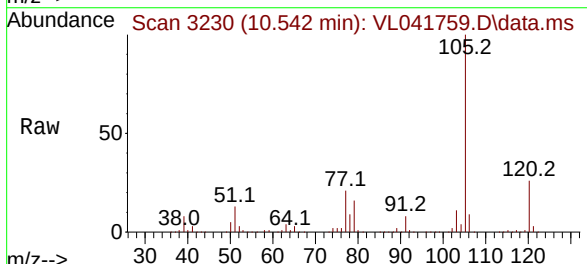
Acq: 16 Dec 2024 18:59

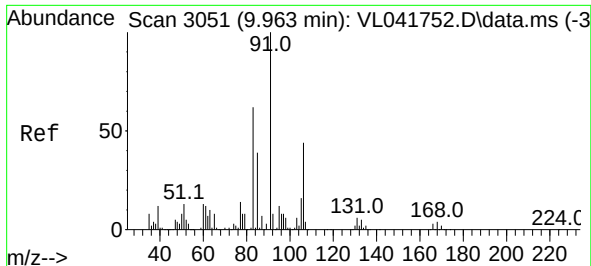
Tgt Ion:105 Resp: 348887

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_L

ClientSampleId :

ICVVL121624

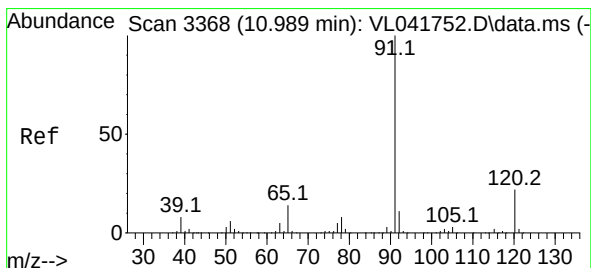
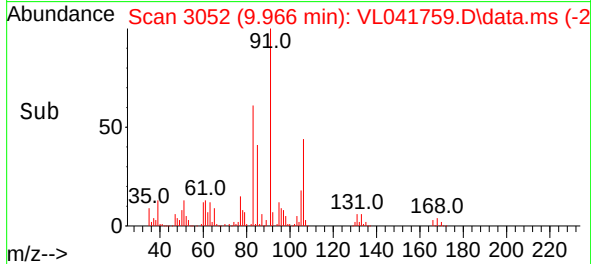
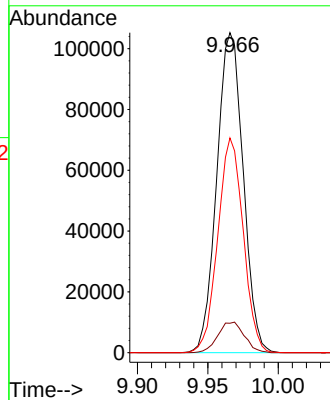
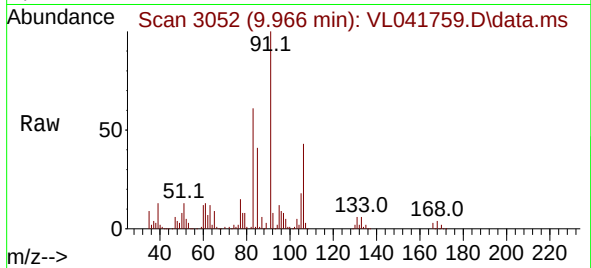
Tgt Ion: 83 Resp: 137547

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

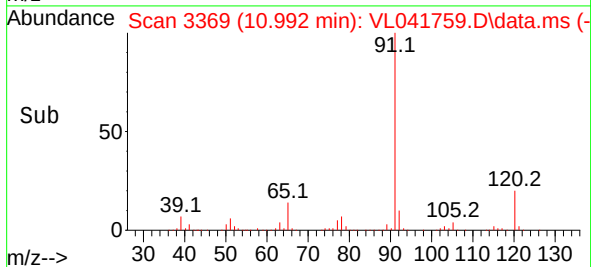
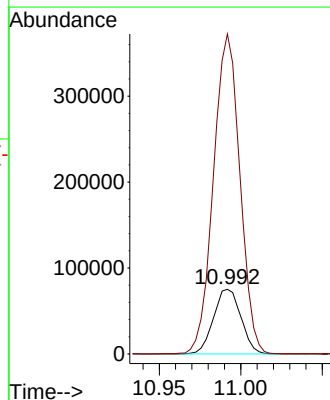
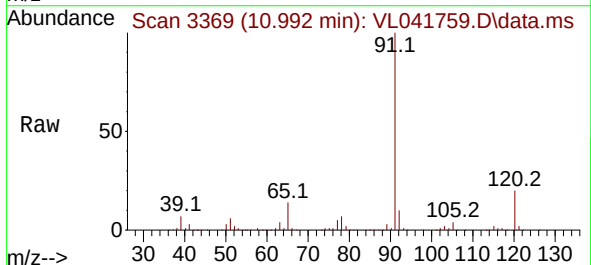
Acq: 16 Dec 2024 18:59

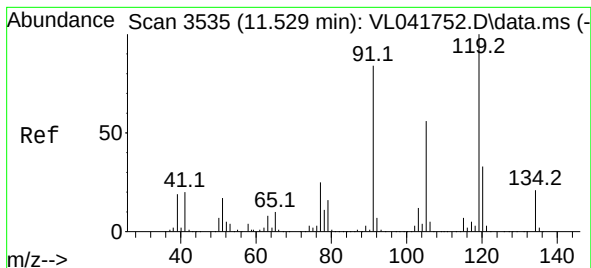
Tgt Ion:120 Resp: 87865

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

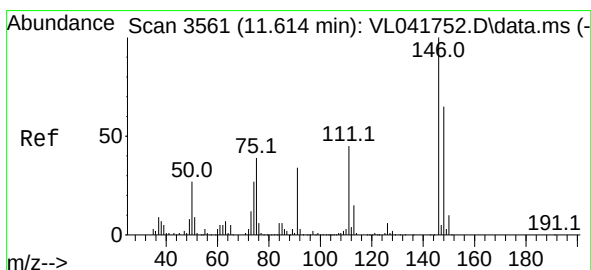
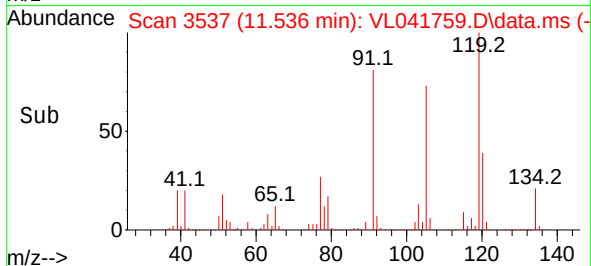
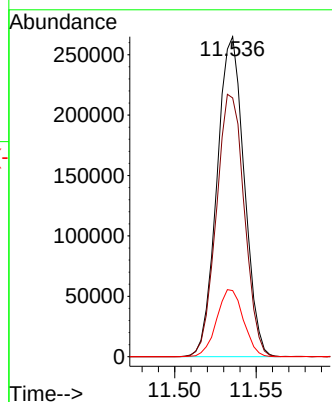
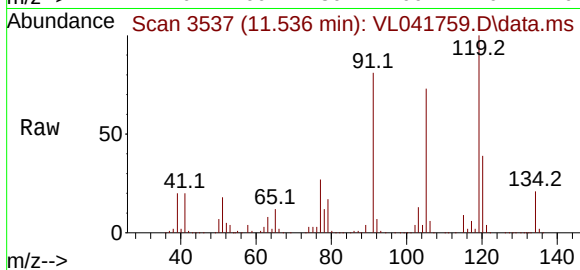
Tgt Ion:119 Resp: 307790

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

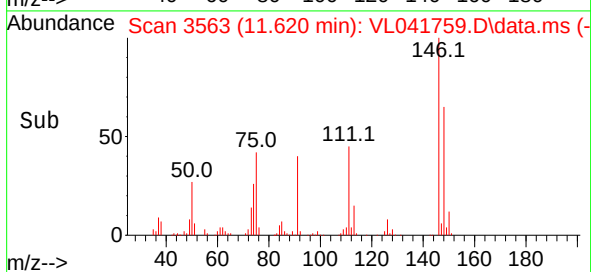
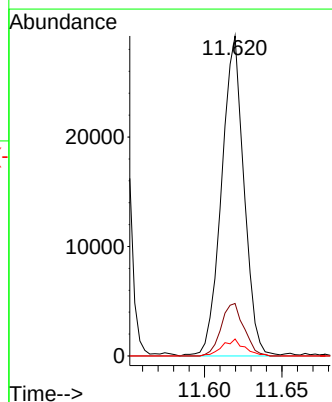
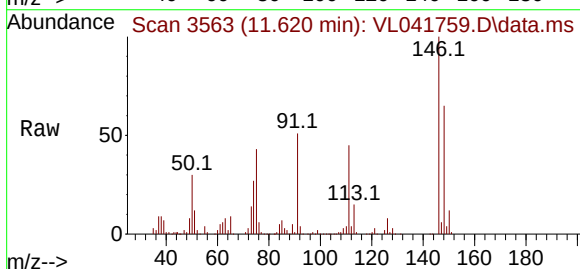
Tgt Ion: 91 Resp: 29398

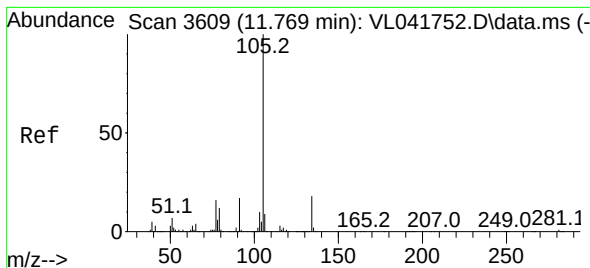
Ion Ratio Lower Upper

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_L

ClientSampleId :

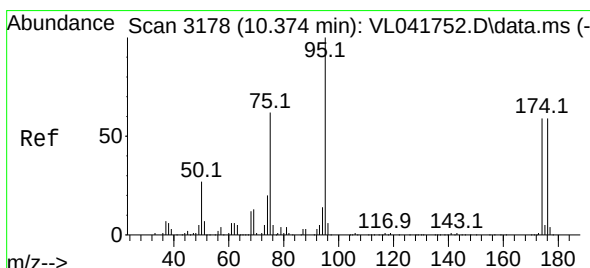
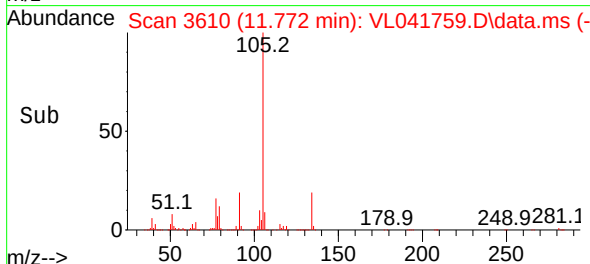
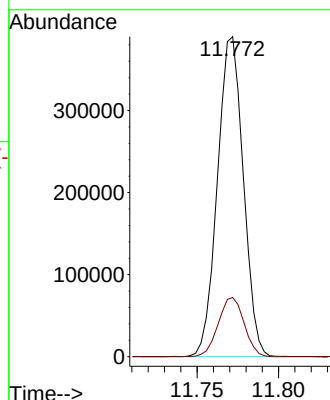
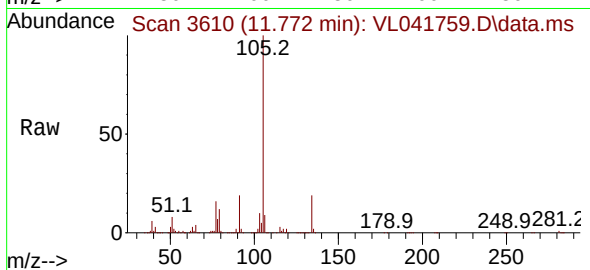
ICVVL121624

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

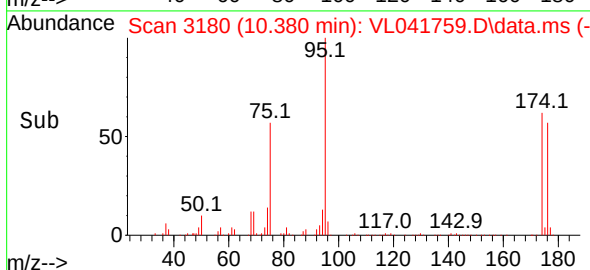
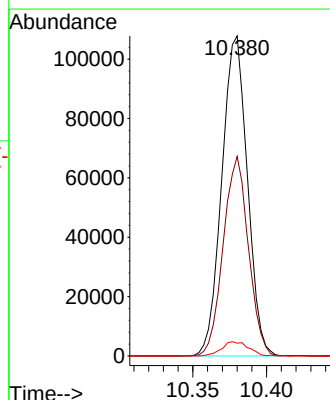
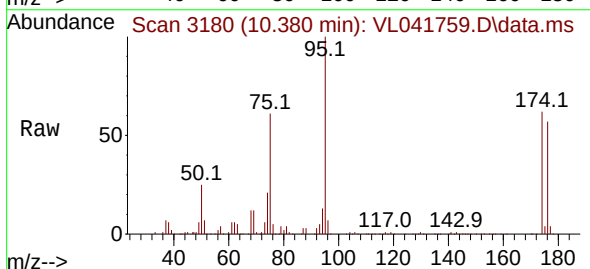
Tgt Ion: 95 Resp: 129985

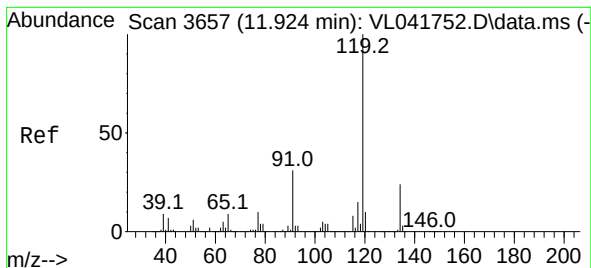
Ion Ratio Lower Upper

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

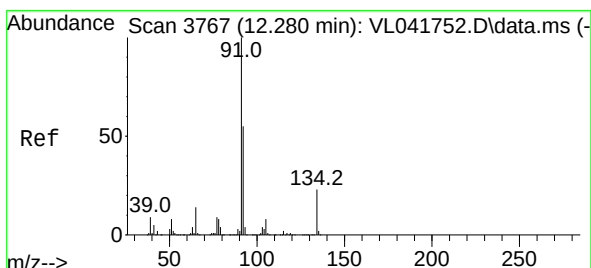
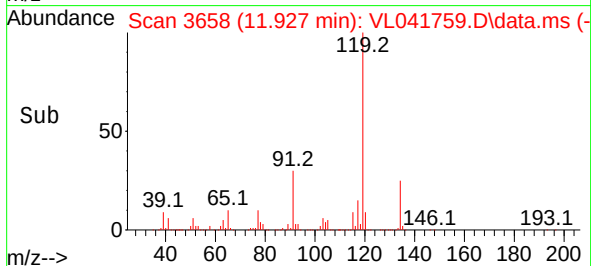
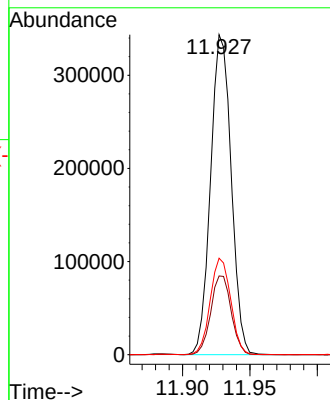
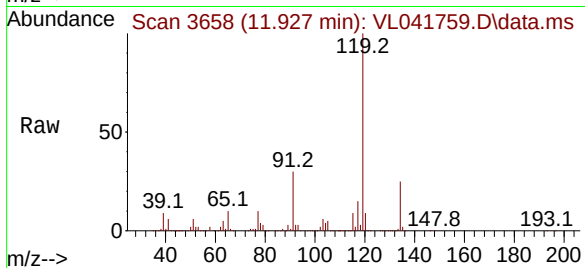
Tgt Ion:119 Resp: 365667

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

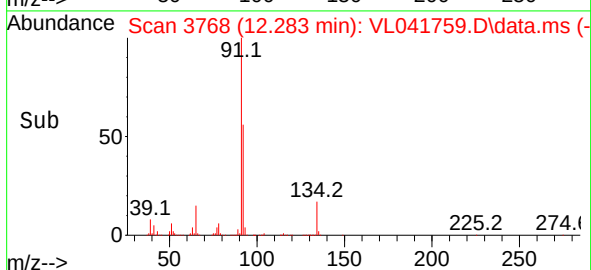
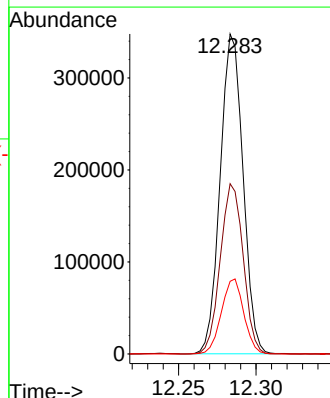
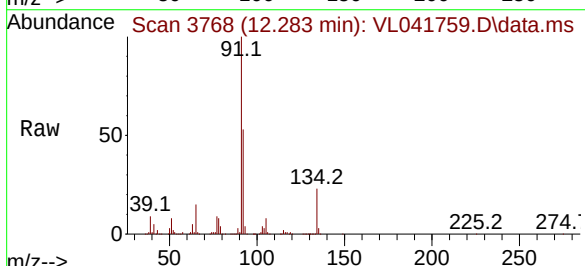
Tgt Ion: 91 Resp: 356880

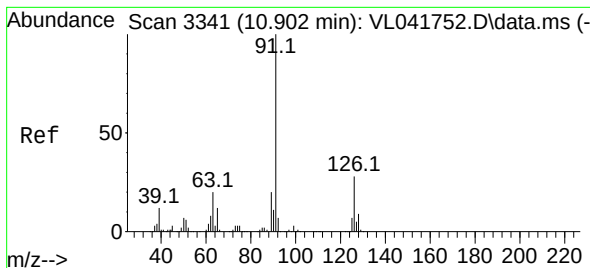
Ion Ratio Lower Upper

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# 3411

Delta R.T. 0.003 min

Lab File: VL041759.D

Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

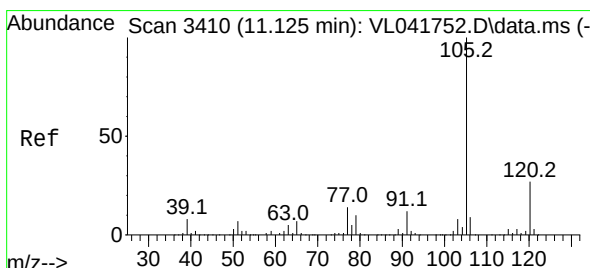
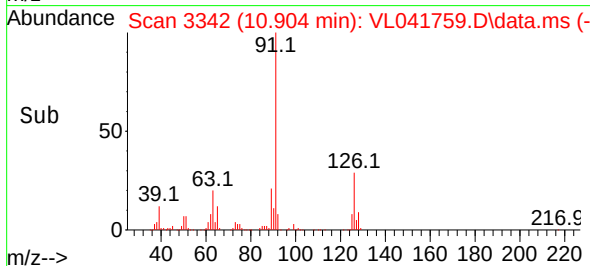
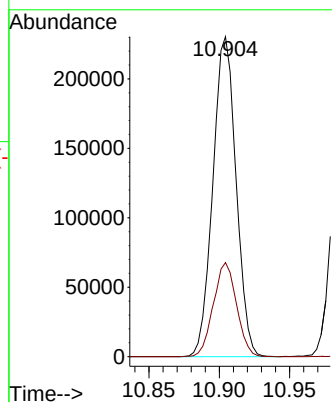
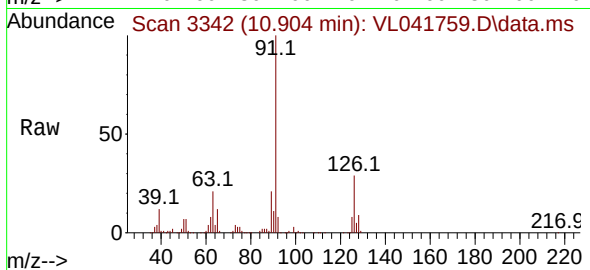
ICVVL121624

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

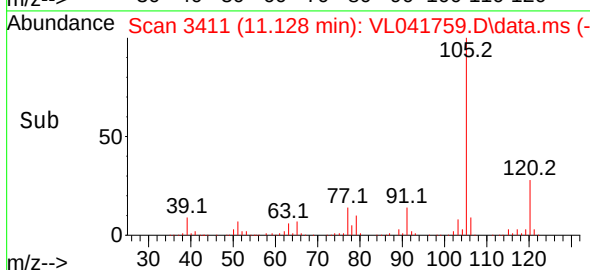
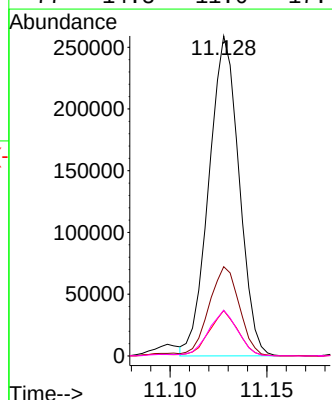
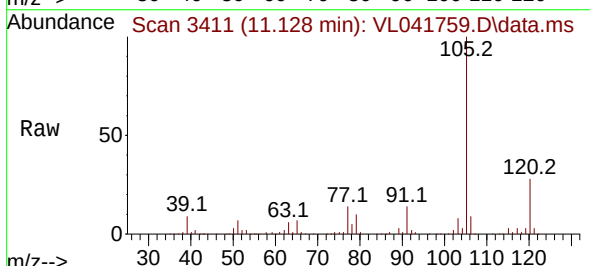
Ion Ratio Lower Upper

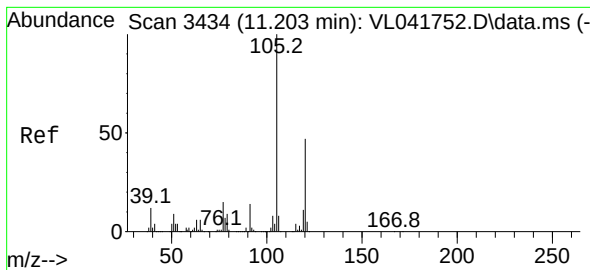
105 100

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 :

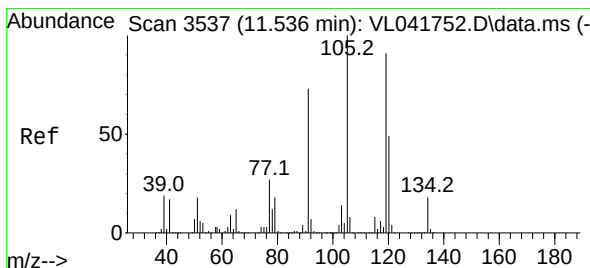
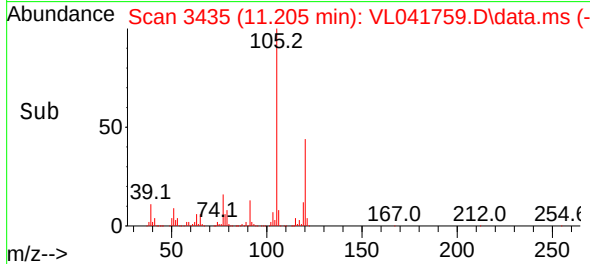
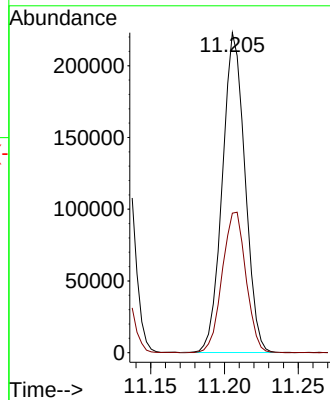
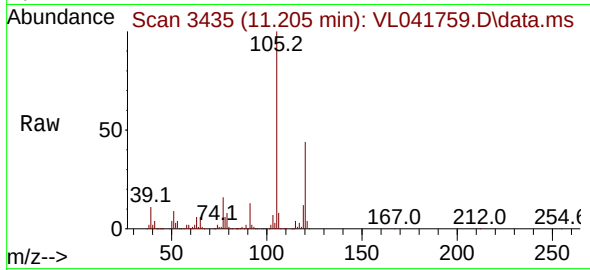
ICVVL121624

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

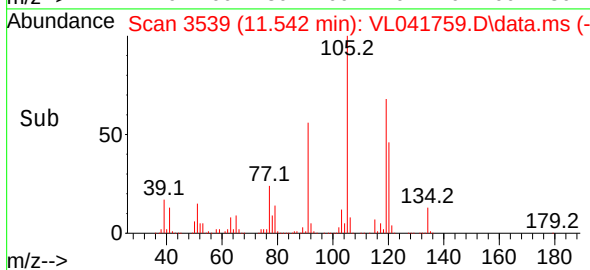
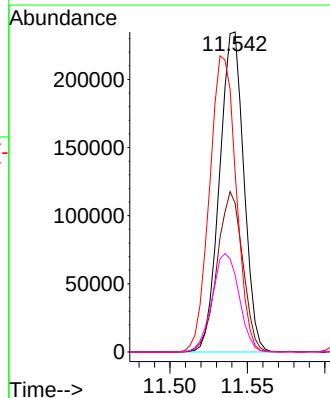
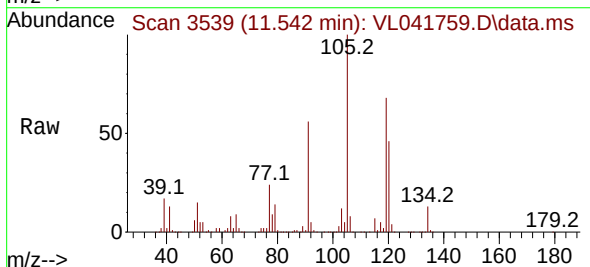
Ion Ratio Lower Upper

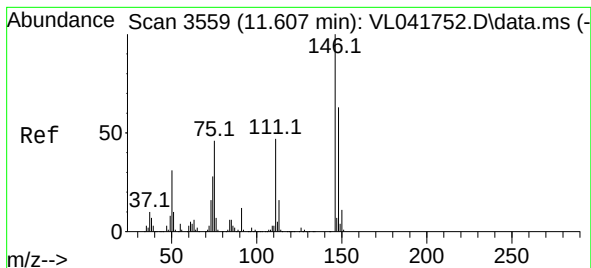
105 100

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

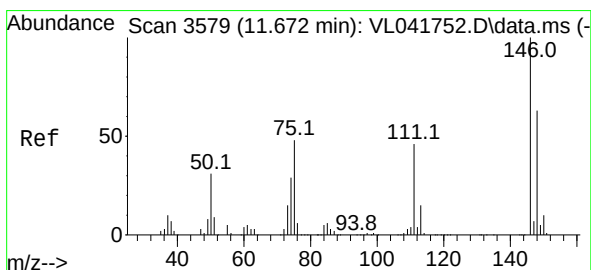
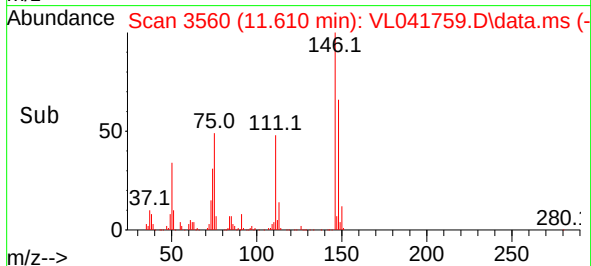
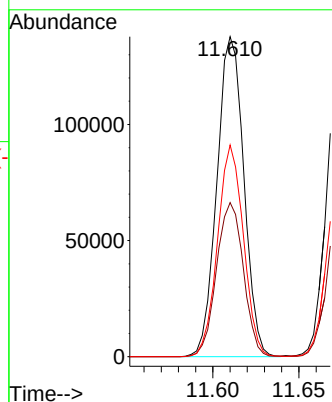
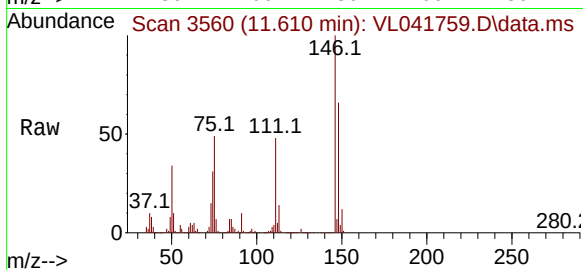
Tgt Ion:146 Resp: 149927

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

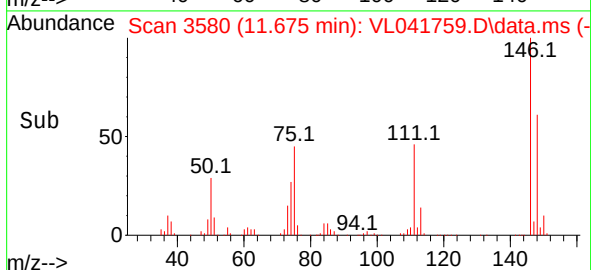
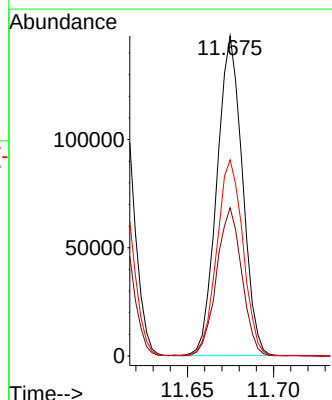
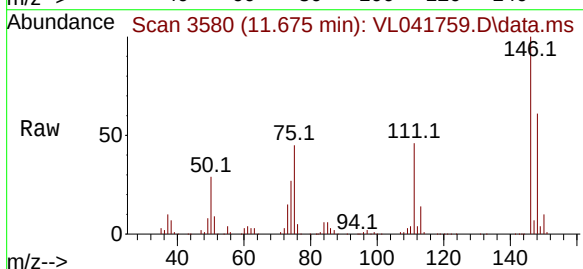
Tgt Ion:146 Resp: 152212

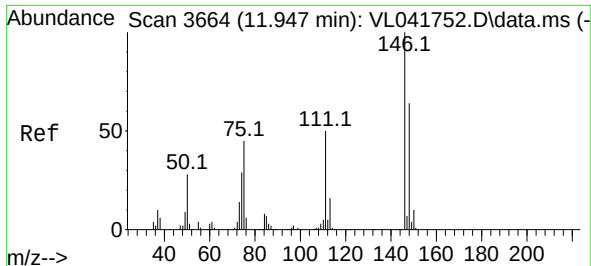
Ion Ratio Lower Upper

146 100

111 46.1 22.7 68.1

148 63.4 31.4 94.0

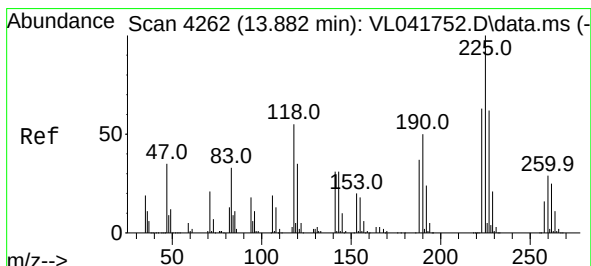
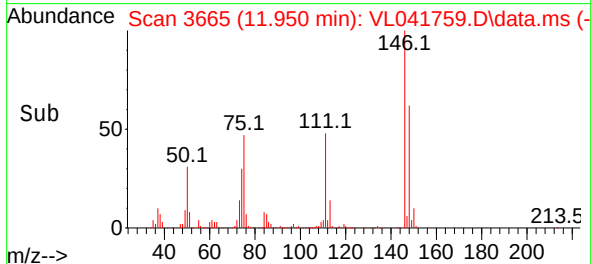
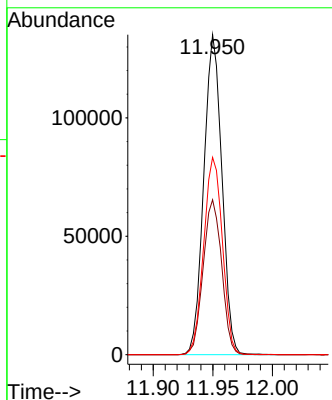
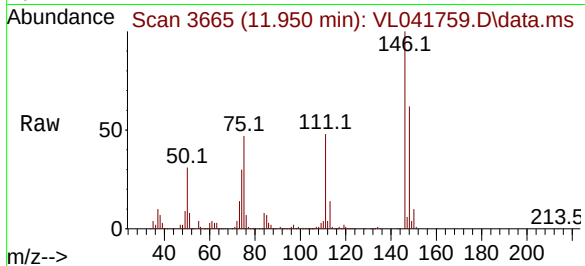




#77
1,2-Dichlorobenzene
Concen: 9.919 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL041759.D
Acq: 16 Dec 2024 18:59

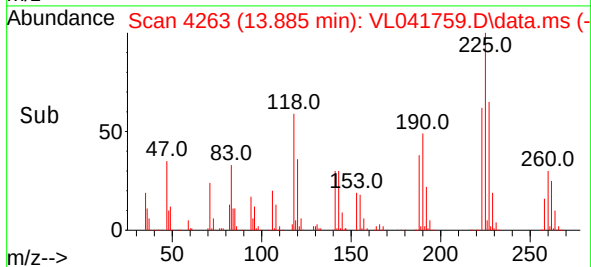
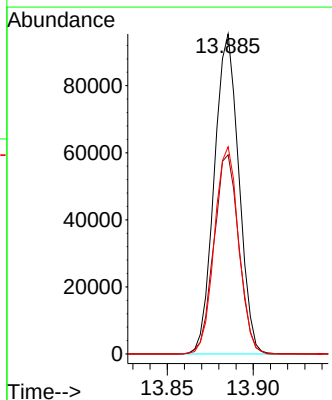
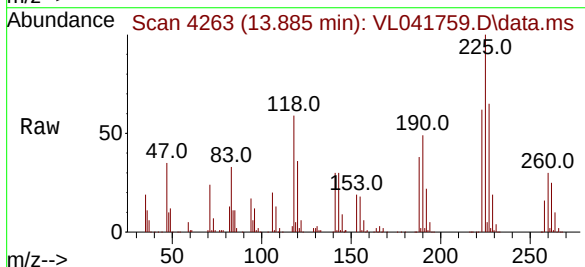
Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

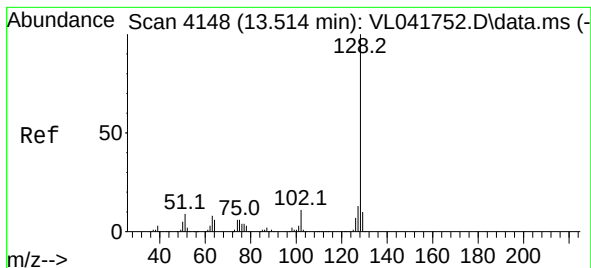
Tgt Ion:146 Resp: 142734
Ion Ratio Lower Upper
146 100
111 49.7 24.8 74.3
148 63.7 31.8 95.4



#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

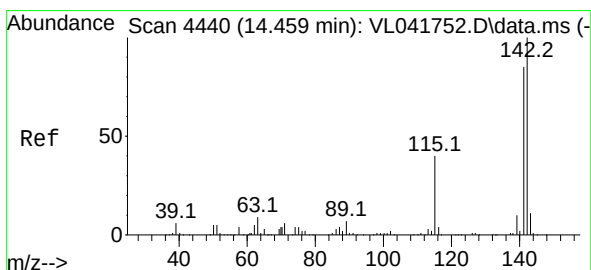
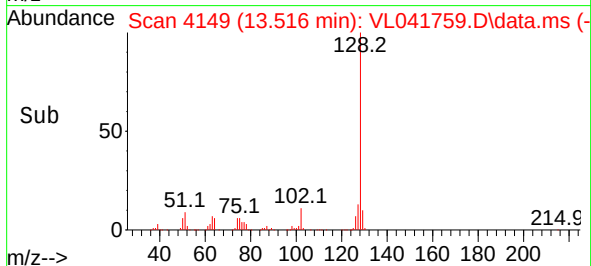
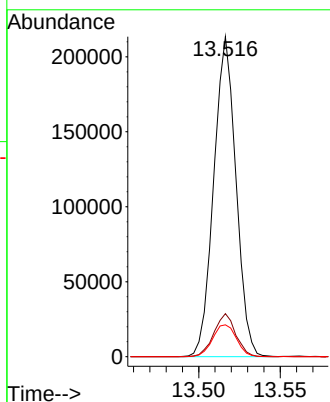
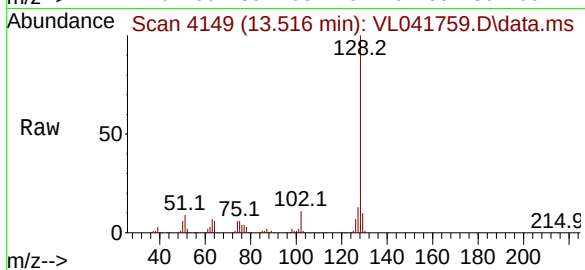
Tgt Ion:128 Resp: 202413

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

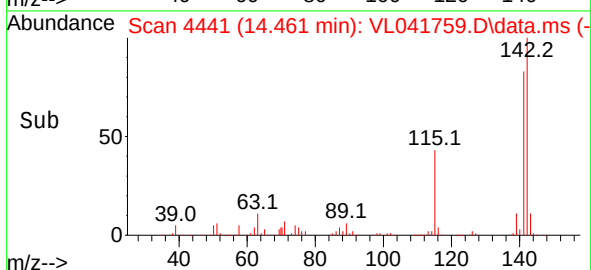
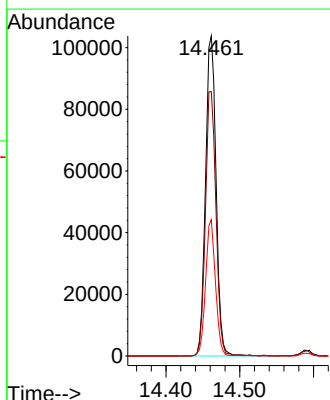
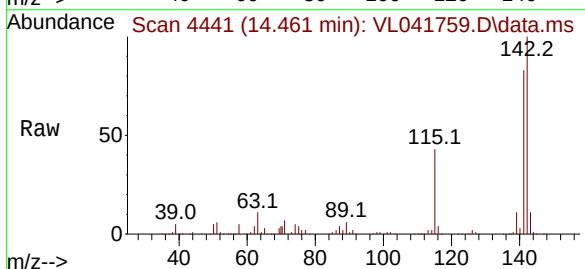
Tgt Ion:142 Resp: 102431

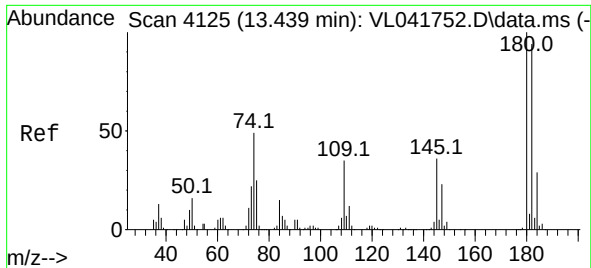
Ion Ratio Lower Upper

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

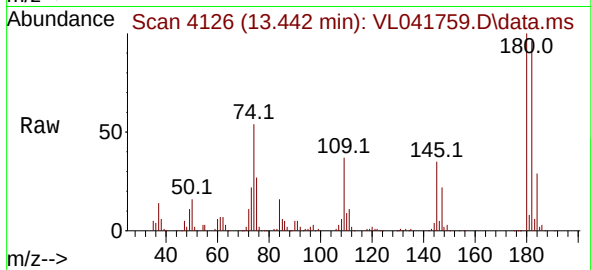
Acq: 16 Dec 2024 18:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL121624



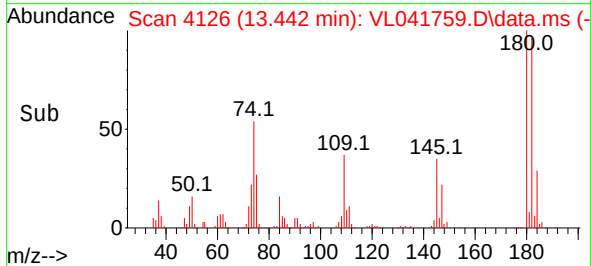
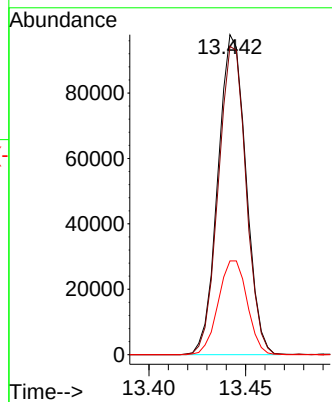
Tgt Ion:180 Resp: 98468

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

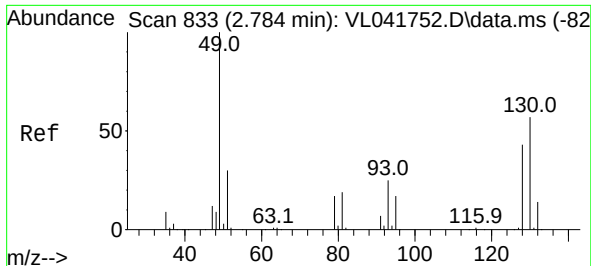
Quant Time: Dec 19 07:49:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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
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

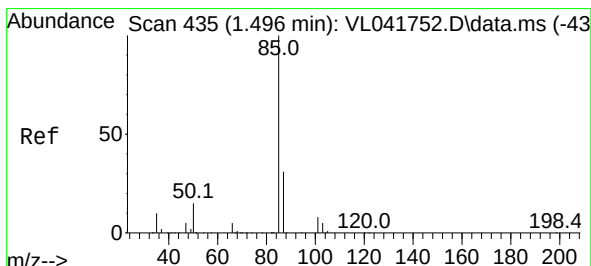
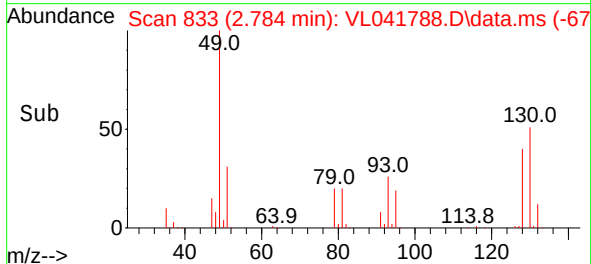
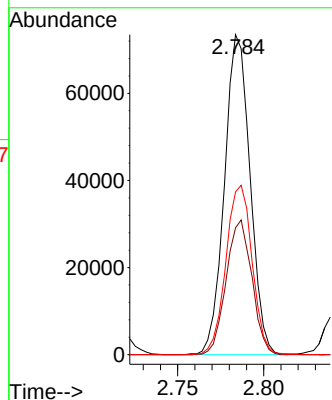
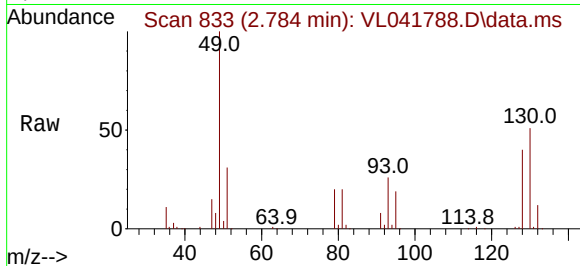




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

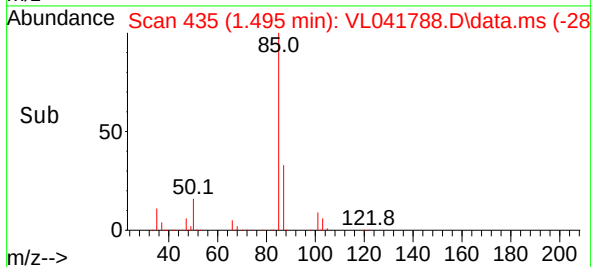
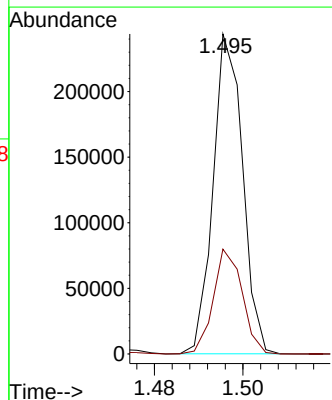
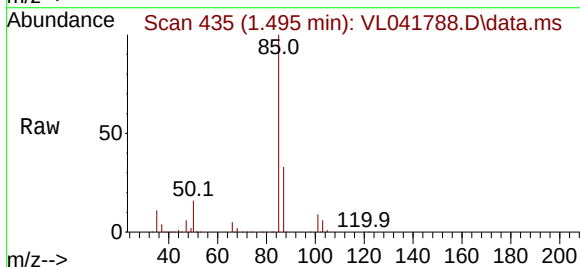
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

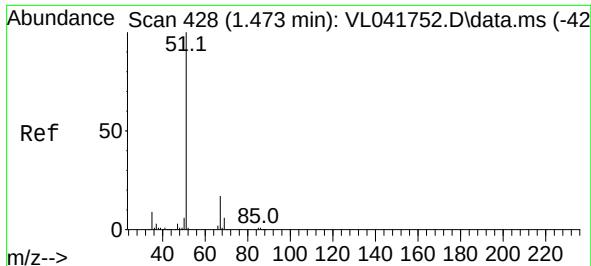
Tgt Ion: 49 Resp: 76040
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.6
130 54.2 28.3 85.0



#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

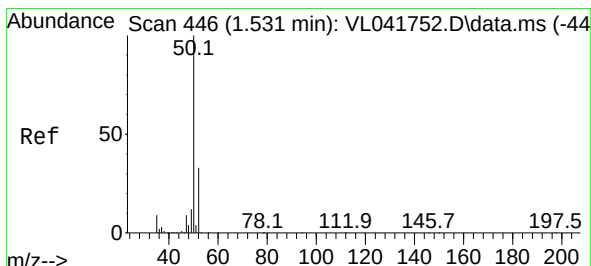
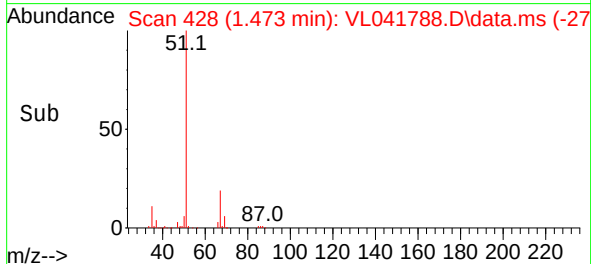
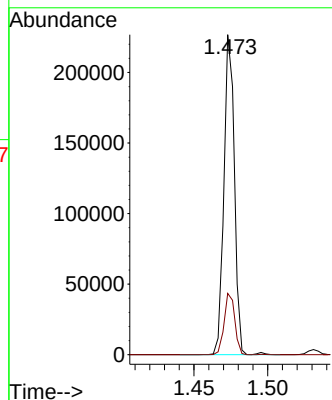
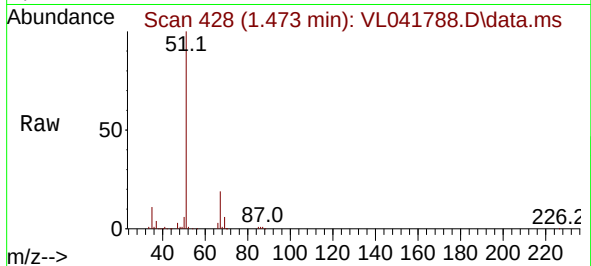




#3
Chlorodifluoromethane
Concen: 9.040 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

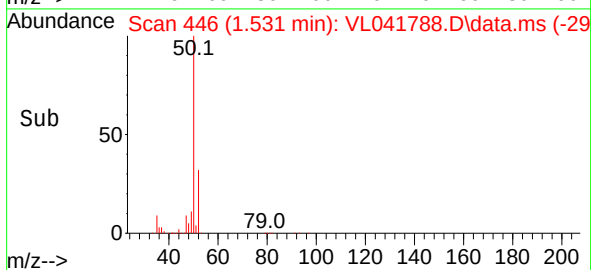
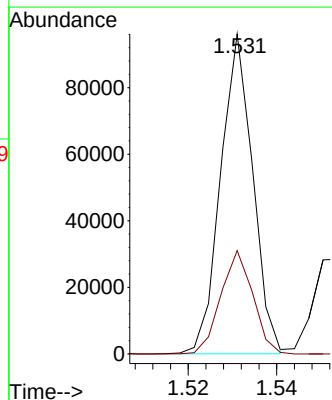
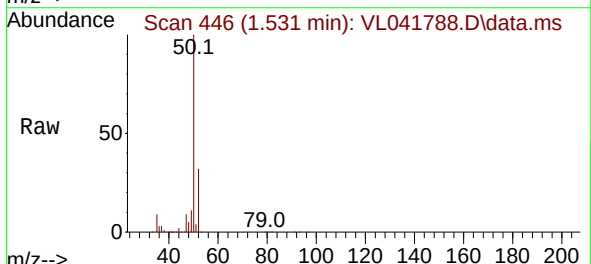
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

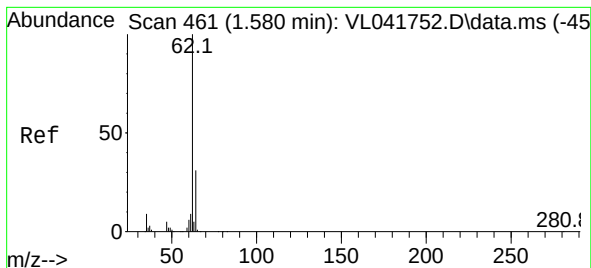
Tgt Ion: 51 Resp: 112096
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.4



#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 :

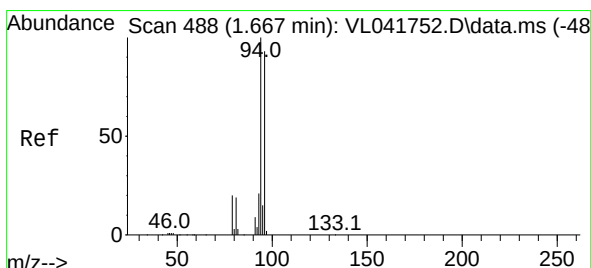
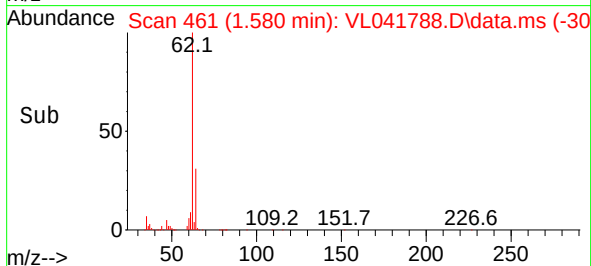
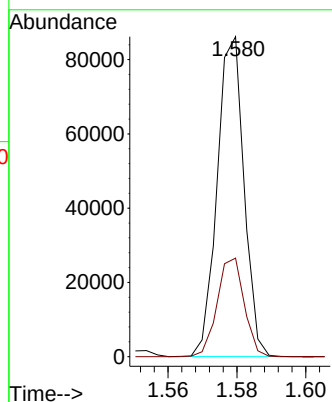
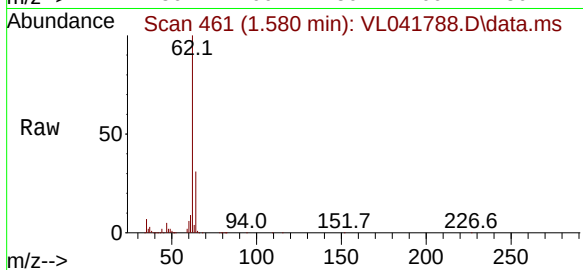
VSTDCCC010

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

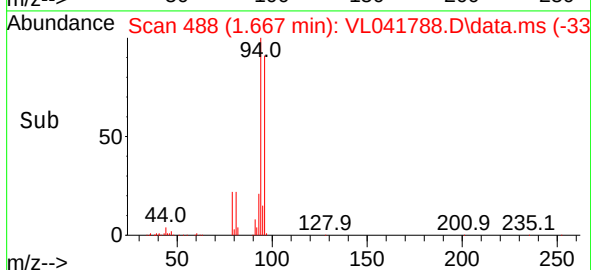
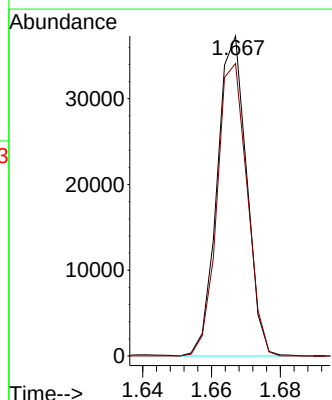
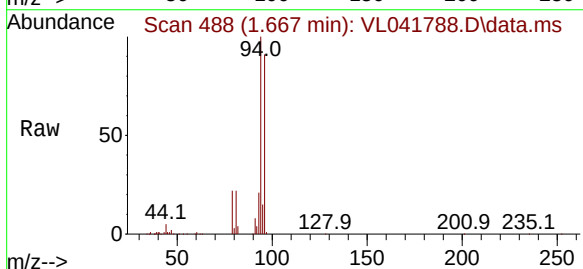
Acq: 18 Dec 2024 10:29

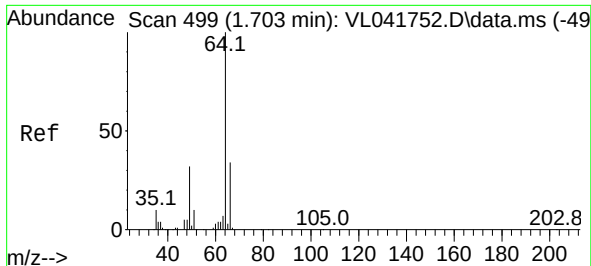
Tgt Ion: 94 Resp: 22202

Ion Ratio Lower Upper

94 100

96 91.4 74.7 112.1

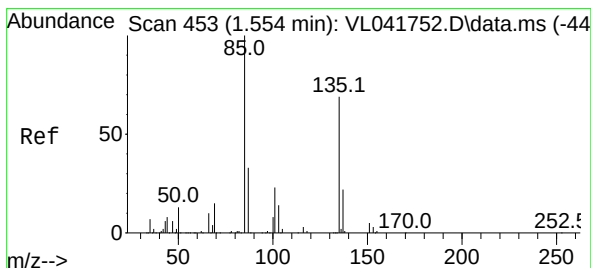
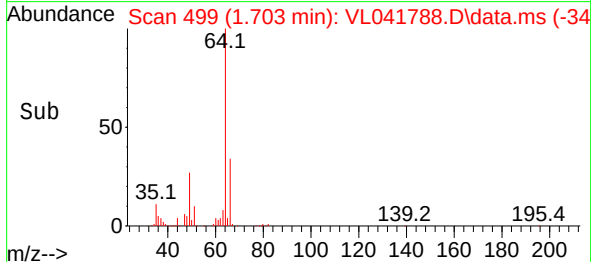
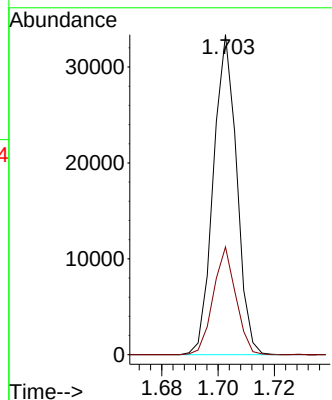
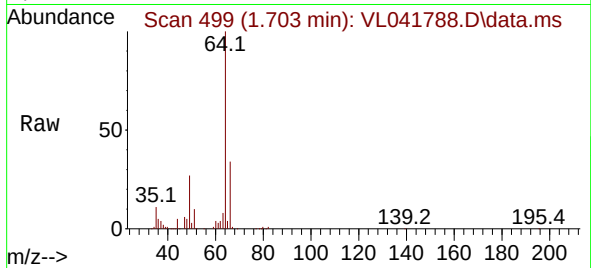




#7
Chloroethane
Concen: 9.269 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

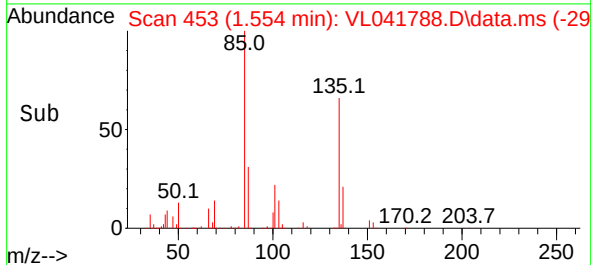
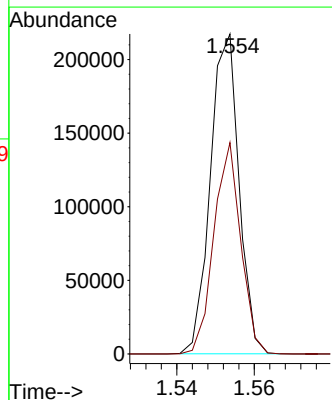
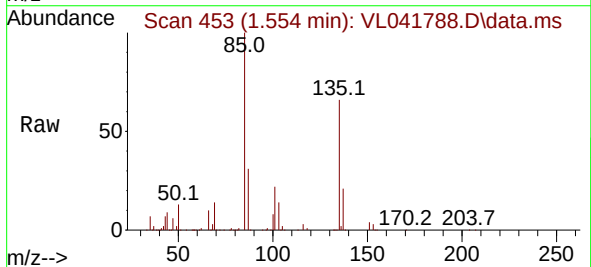
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

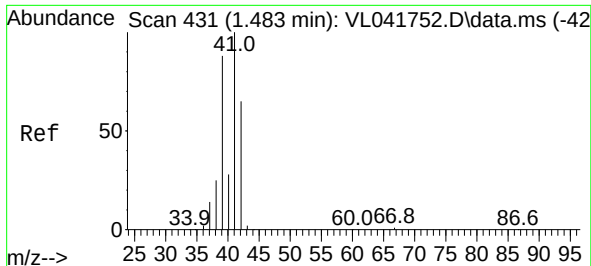
Tgt Ion: 64 Resp: 19203
Ion Ratio Lower Upper
64 100
66 33.6 27.5 41.3



#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 :

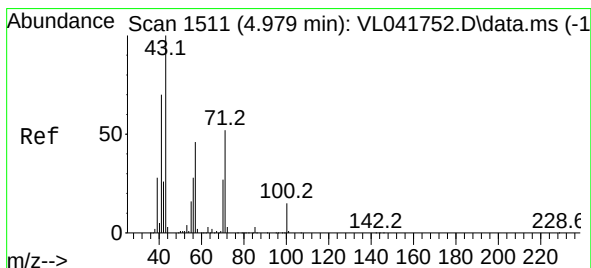
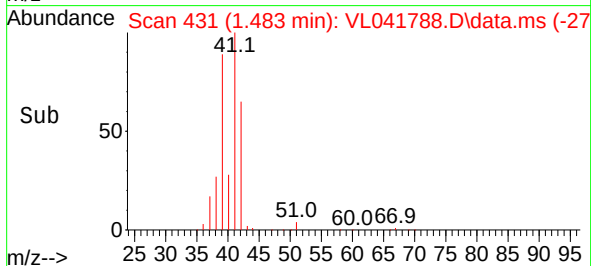
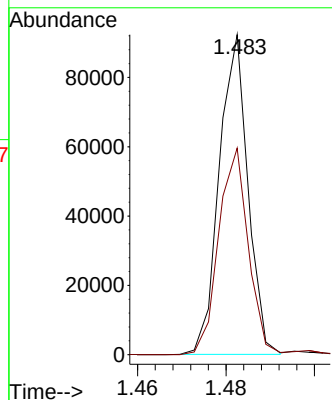
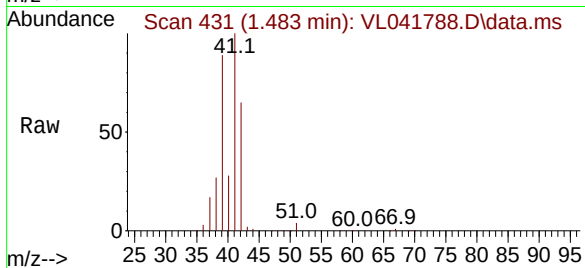
VSTDCCC010

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

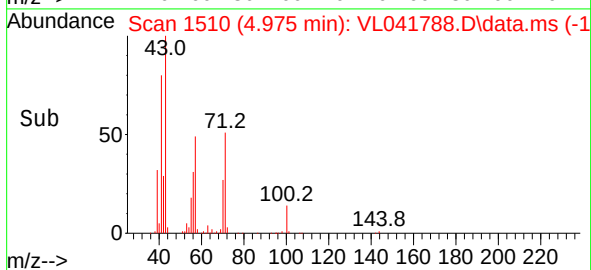
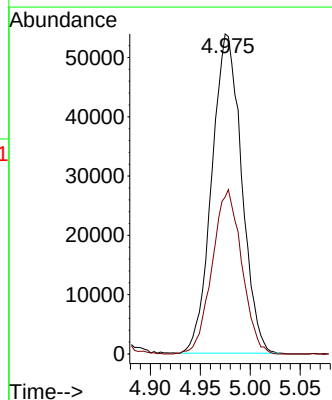
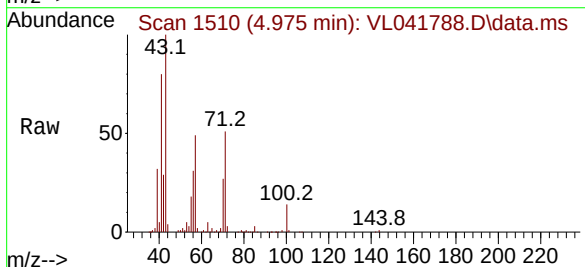
Acq: 18 Dec 2024 10:29

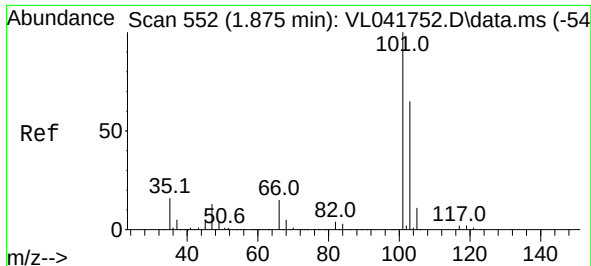
Tgt Ion: 43 Resp: 111650

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 :

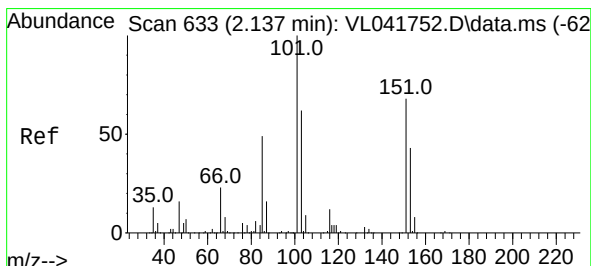
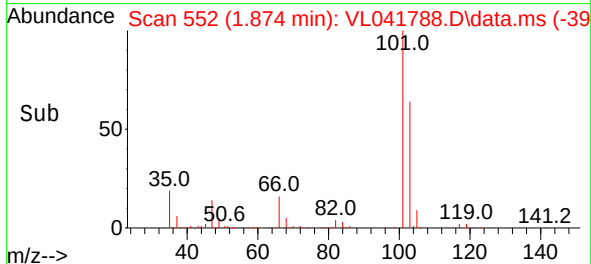
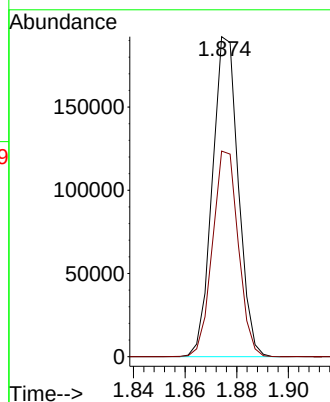
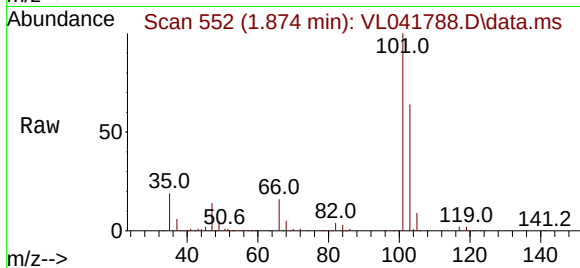
VSTDCCC010

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

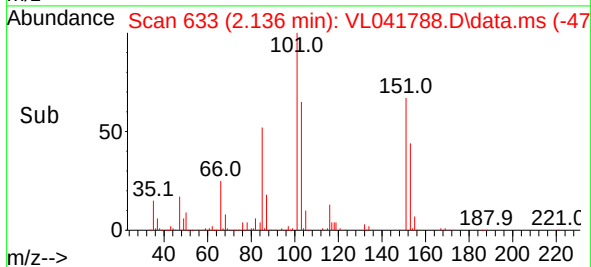
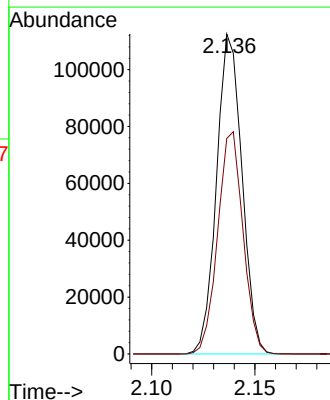
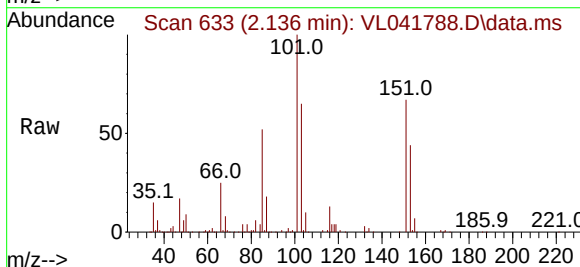
Acq: 18 Dec 2024 10:29

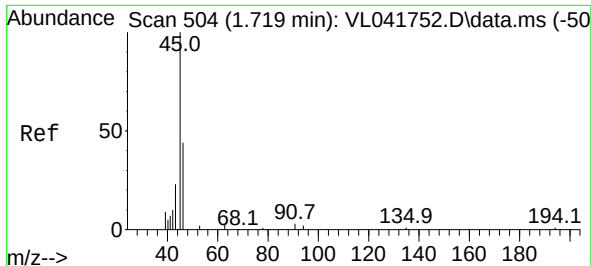
Tgt Ion:101 Resp: 96469

Ion Ratio Lower Upper

101 100

151 69.2 56.8 85.2

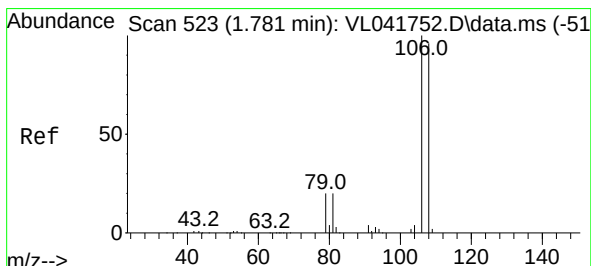
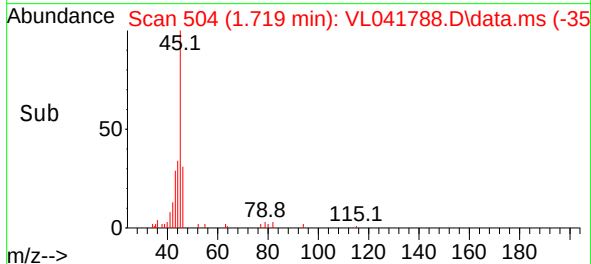
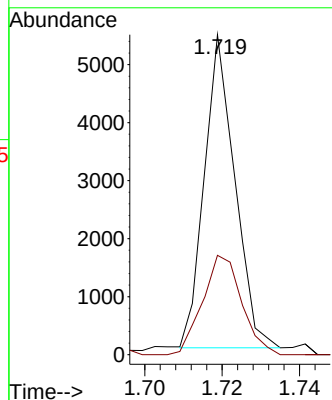
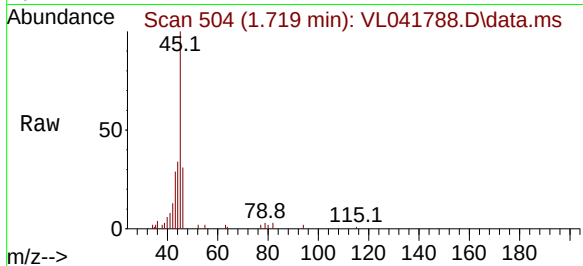




#13
Ethanol
Concen: 6.637 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

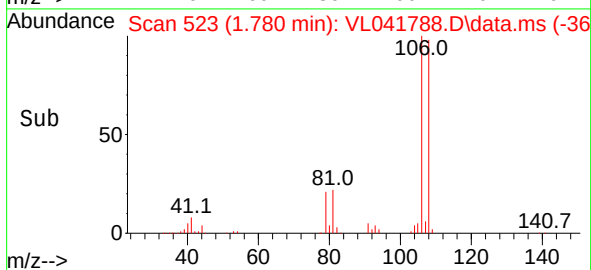
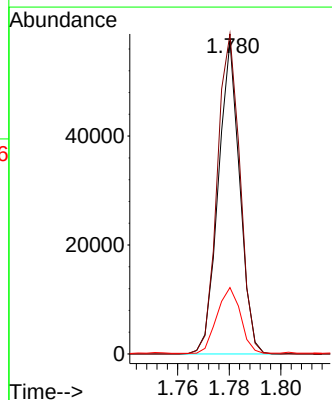
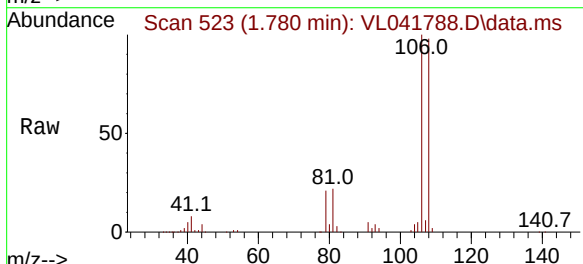
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

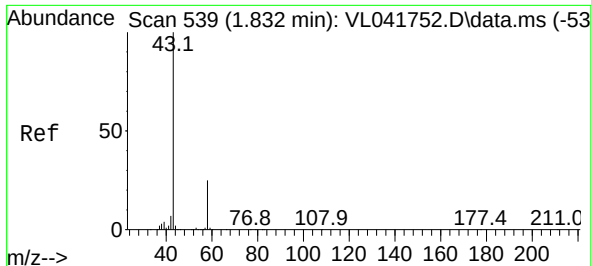
Tgt Ion: 45 Resp: 2954
Ion Ratio Lower Upper
45 100
46 41.2 16.4 65.8



#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

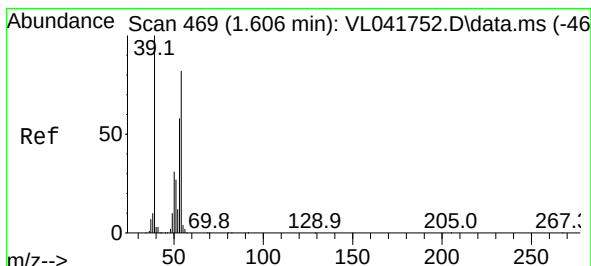
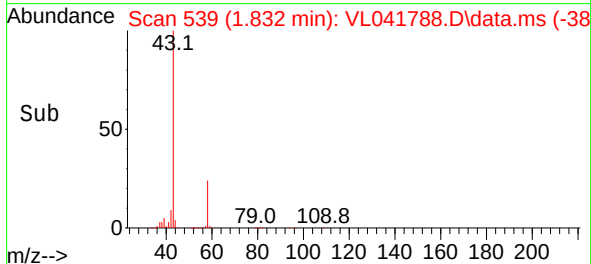
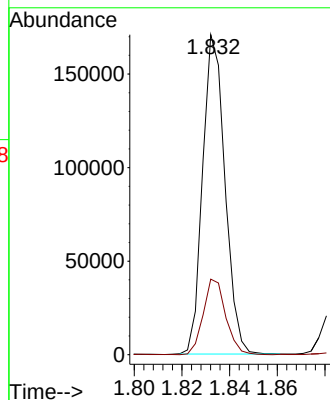
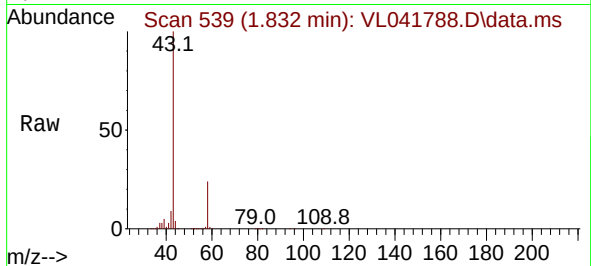




#15
Acetone
Concen: 7.522 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

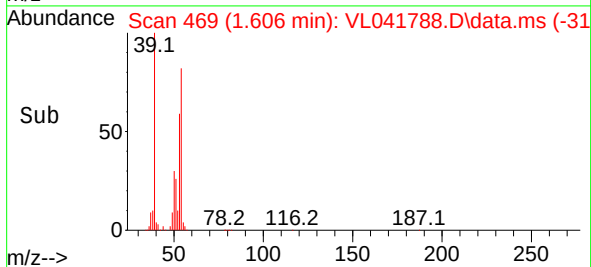
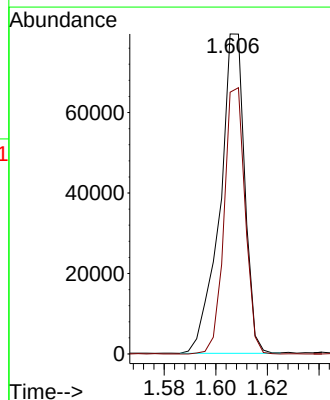
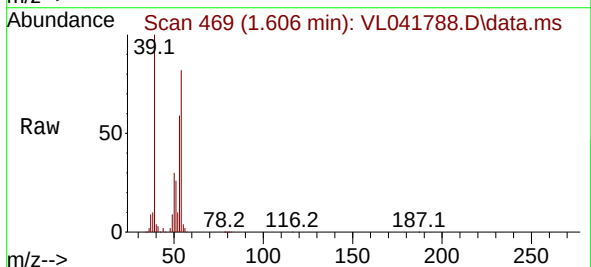
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

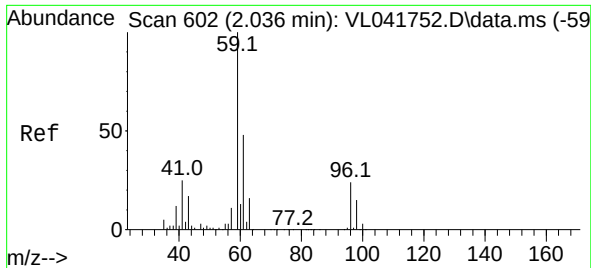
Tgt Ion: 43 Resp: 111294
Ion Ratio Lower Upper
43 100
58 24.0 19.7 29.5



#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

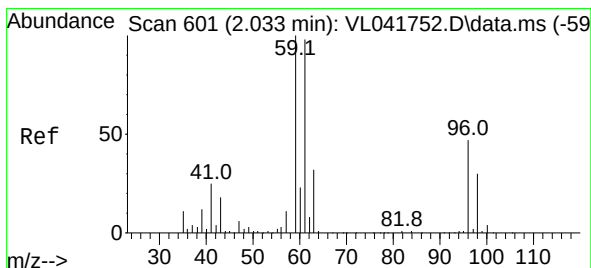
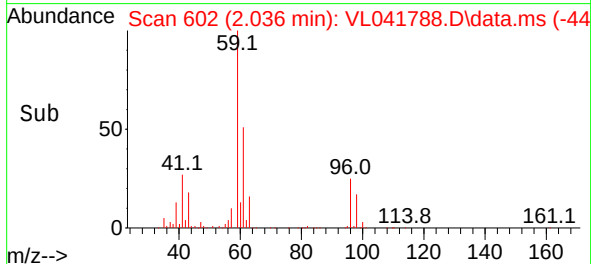
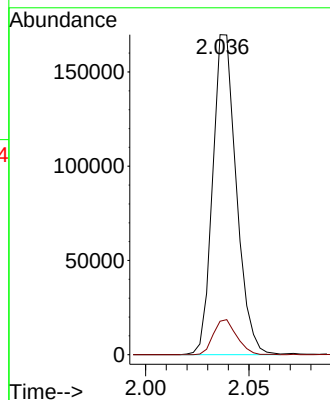
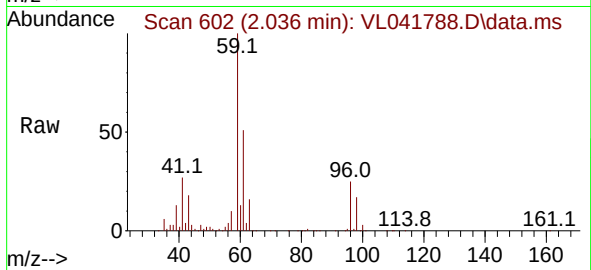




#17
tert-Butyl alcohol
Concen: 9.233 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

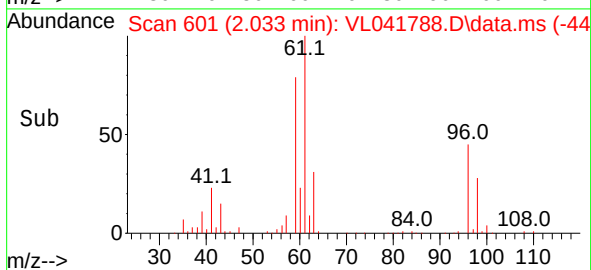
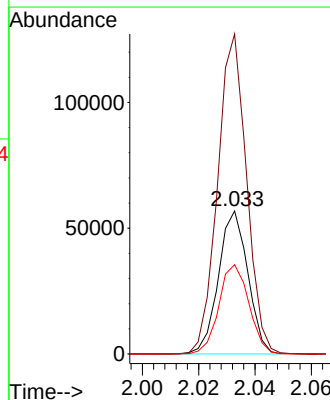
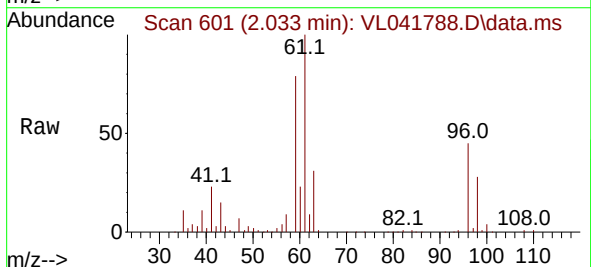
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

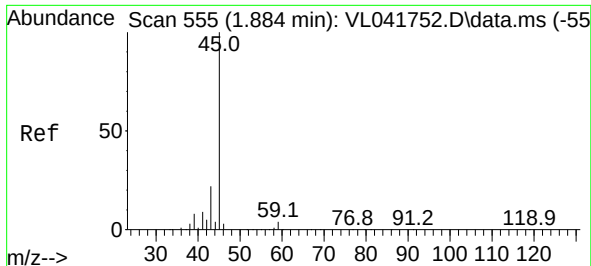
Tgt Ion: 59 Resp: 135516
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0



#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 :

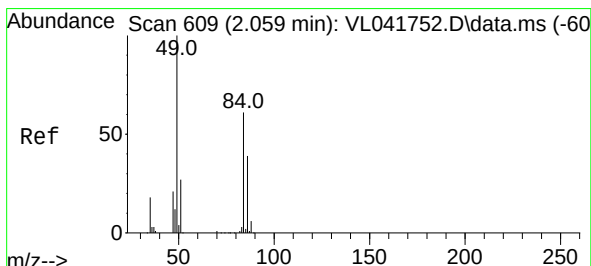
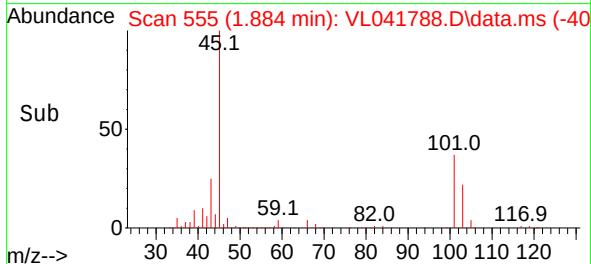
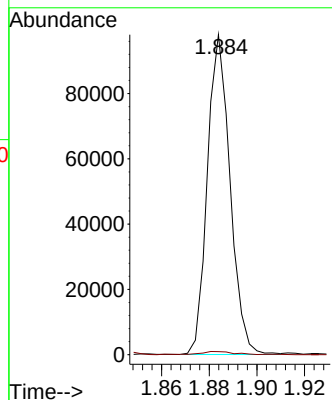
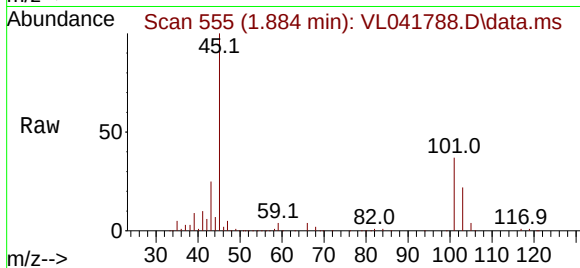
VSTDCCC010

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

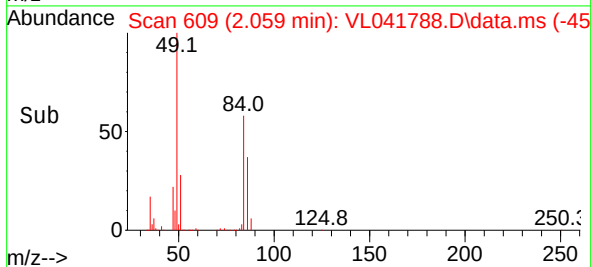
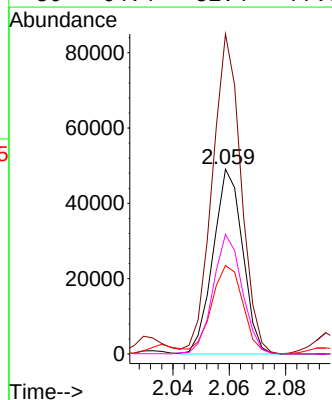
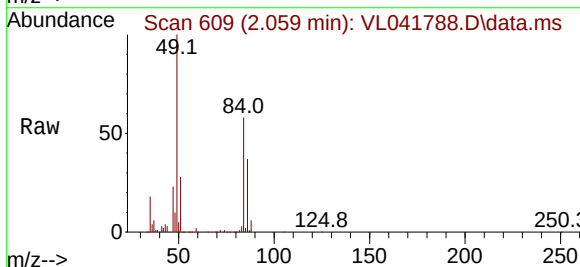
Ion Ratio Lower Upper

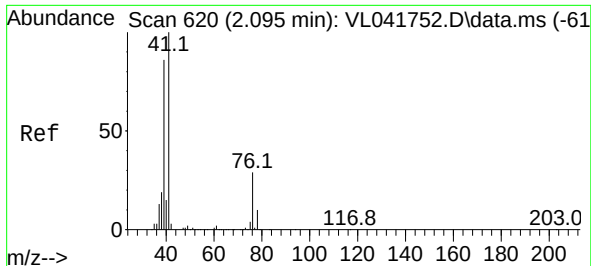
84 100

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

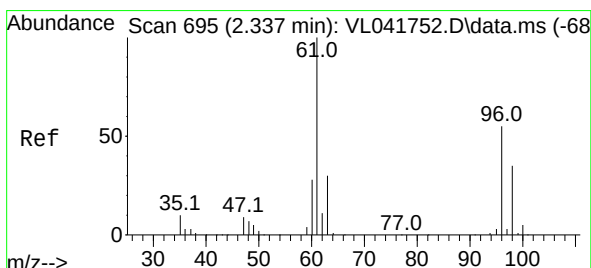
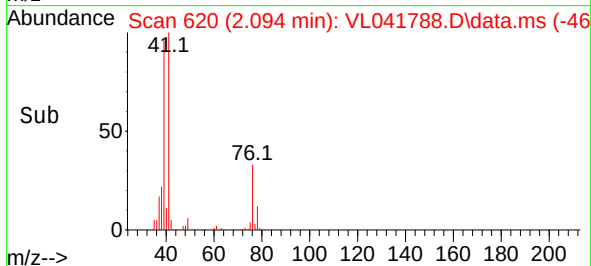
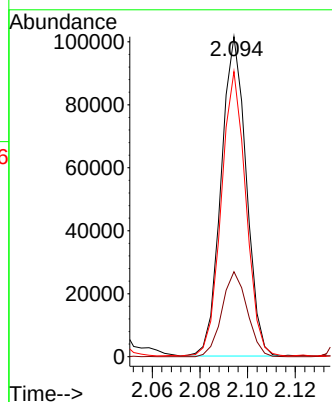
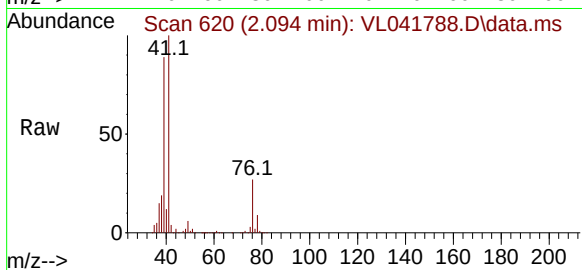
Tgt Ion: 41 Resp: 74468

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

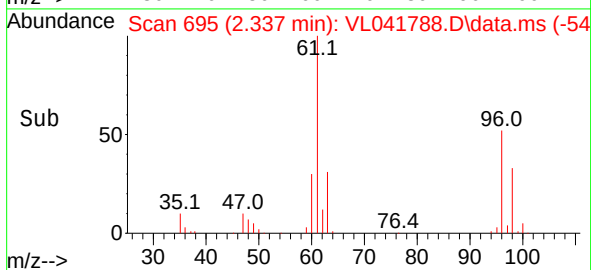
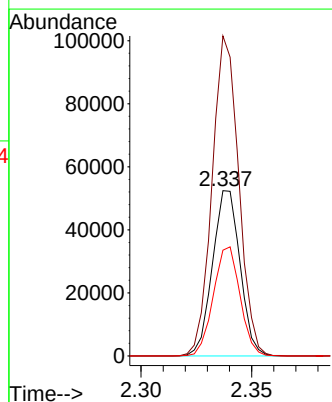
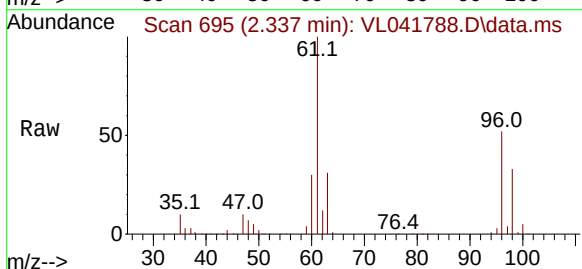
Tgt Ion: 96 Resp: 45331

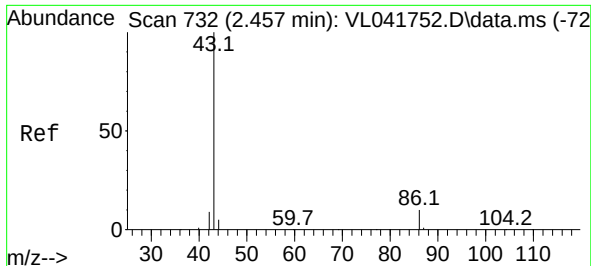
Ion Ratio Lower Upper

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

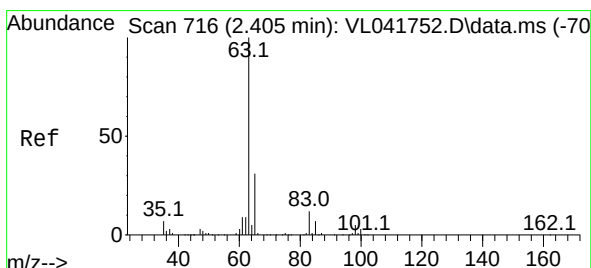
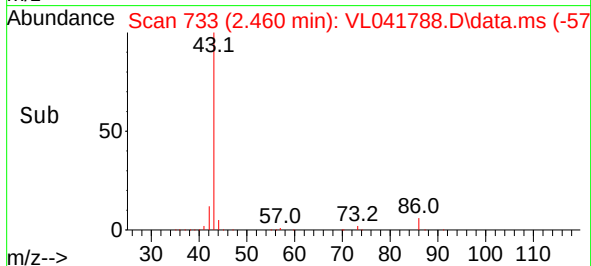
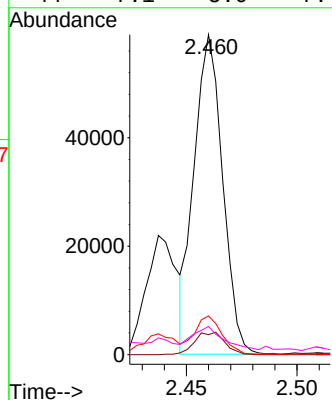
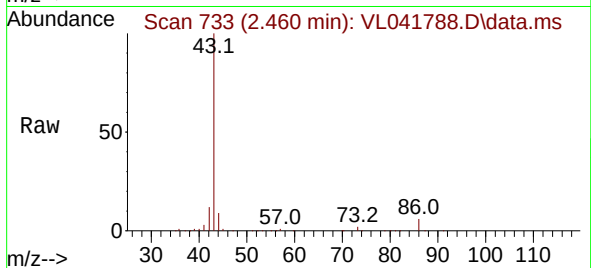
Ion Ratio Lower Upper

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

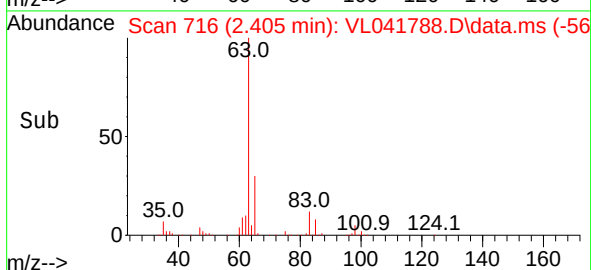
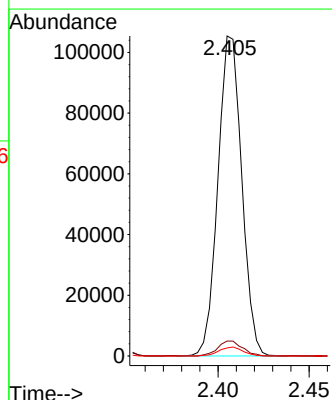
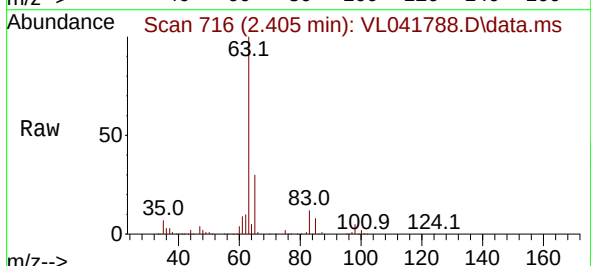
Tgt Ion: 63 Resp: 95779

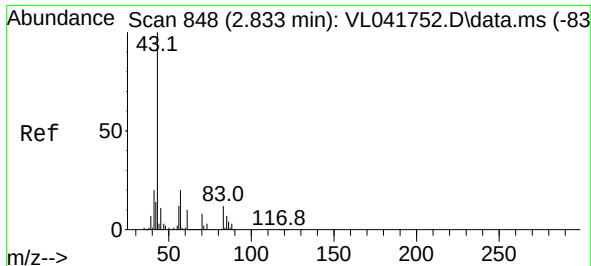
Ion Ratio Lower Upper

63 100

98 4.7 2.3 6.8

100 2.5 1.4 4.2



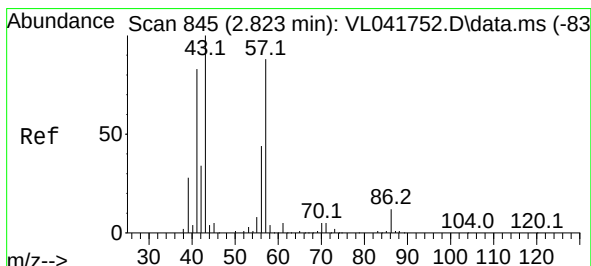
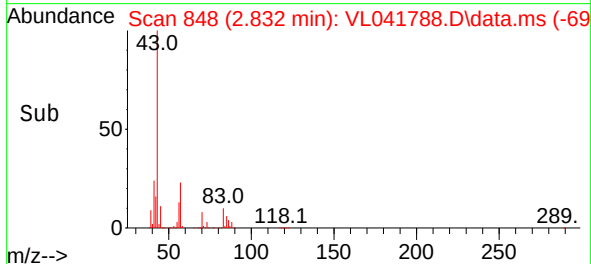
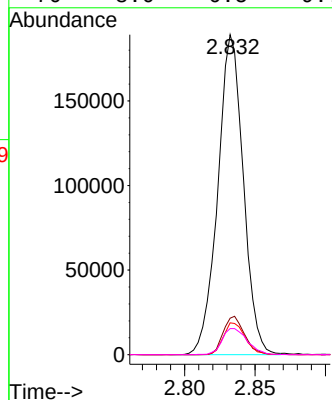
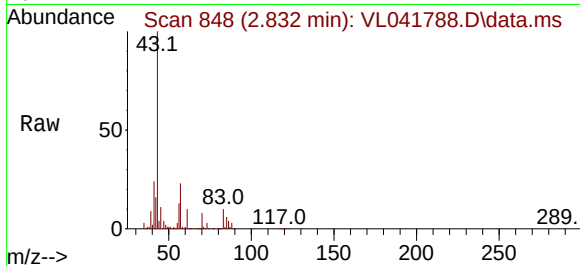


#25
Ethyl Acetate
Concen: 8.675 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 238771

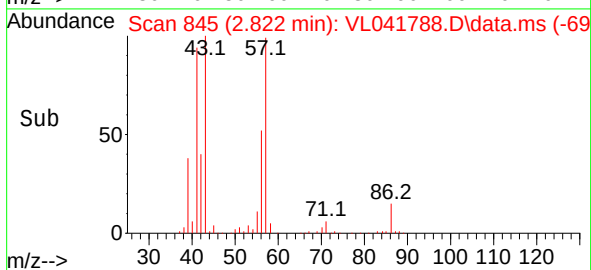
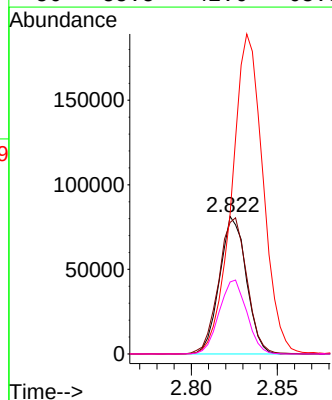
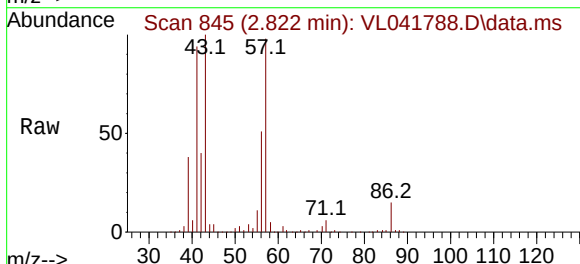
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	8.6	7.0	10.6
70	8.0	6.5	9.7

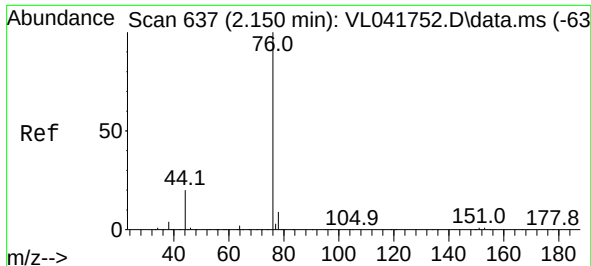


#26
Hexane
Concen: 8.386 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

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

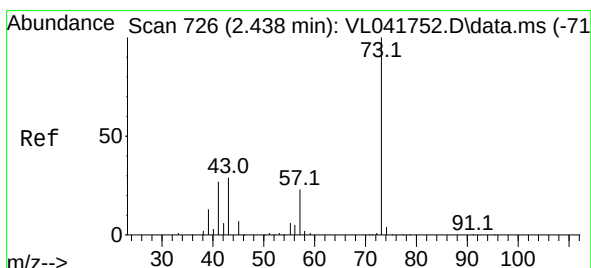
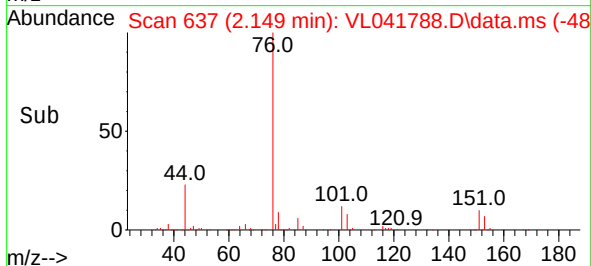
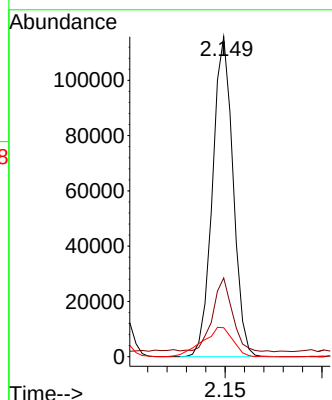
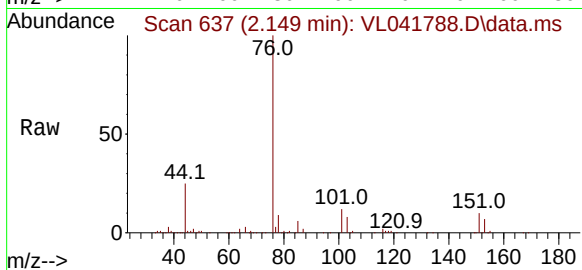
Tgt Ion: 76 Resp: 85318

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

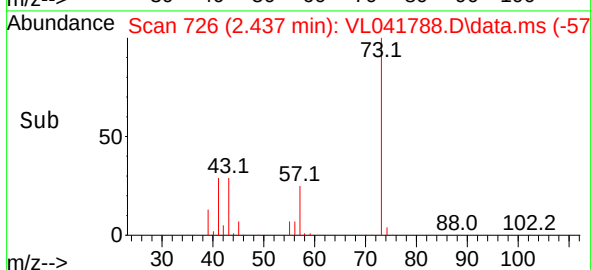
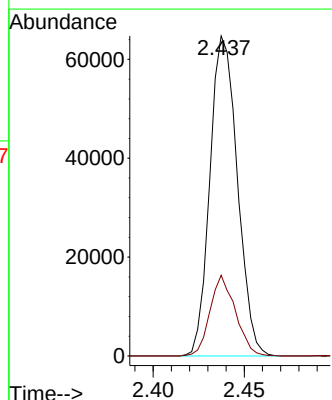
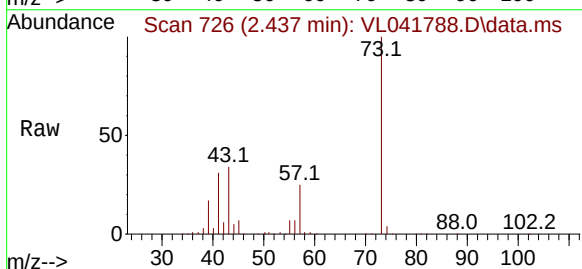
Acq: 18 Dec 2024 10:29

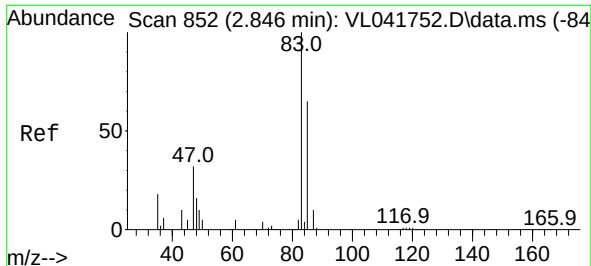
Tgt Ion: 73 Resp: 67965

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 :

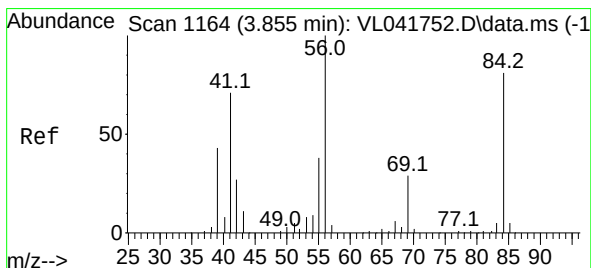
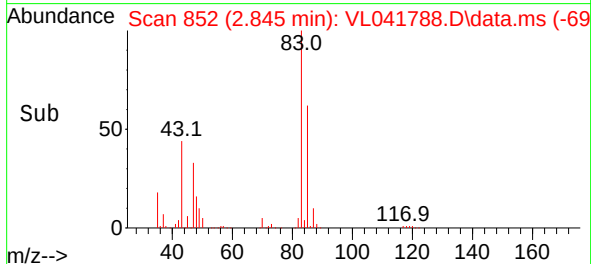
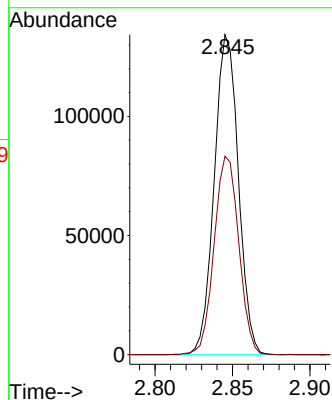
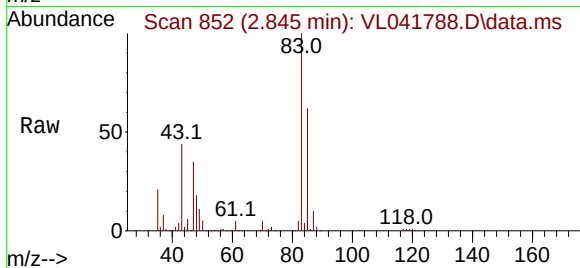
VSTDCCC010

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

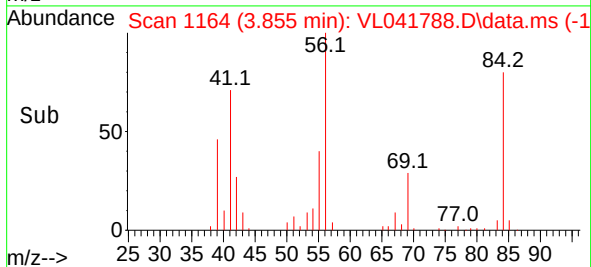
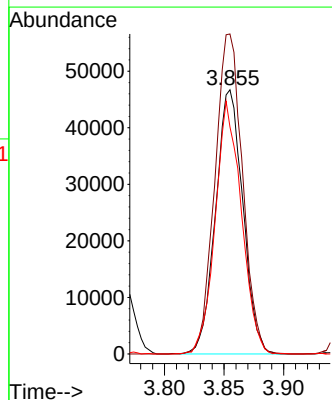
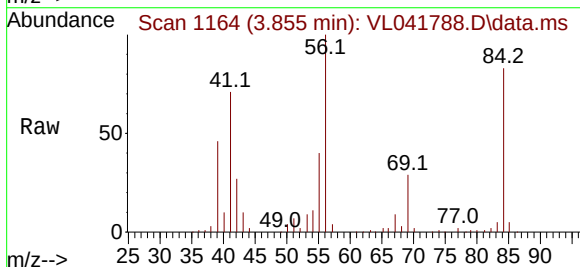
Tgt Ion: 84 Resp: 74346

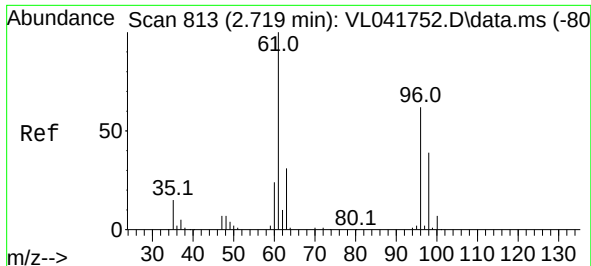
Ion Ratio Lower Upper

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

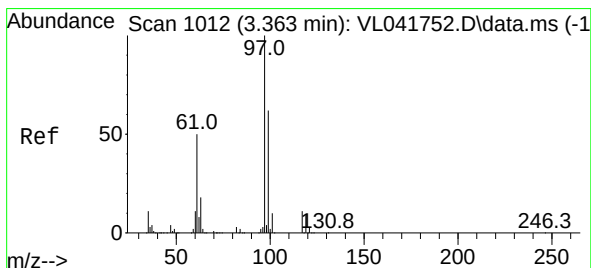
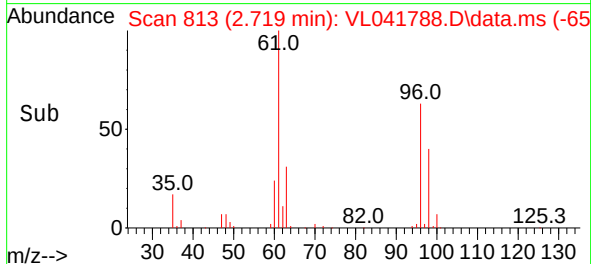
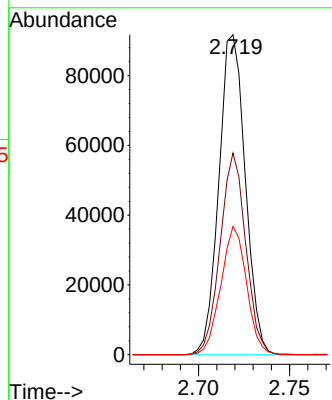
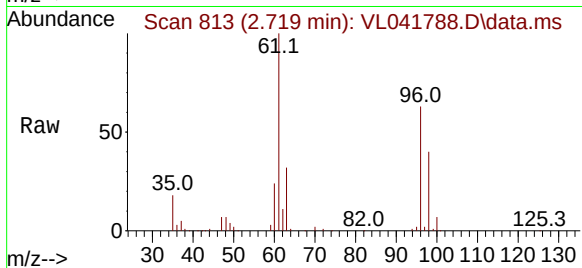
Tgt Ion: 61 Resp: 92460

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

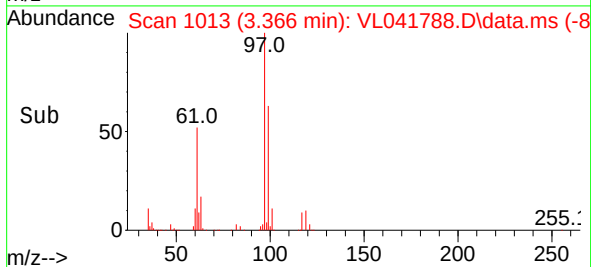
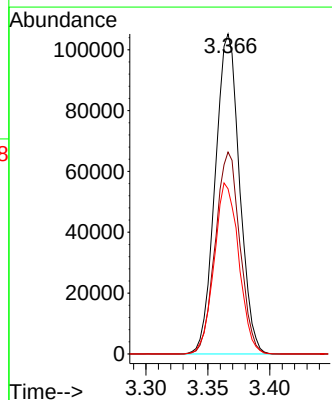
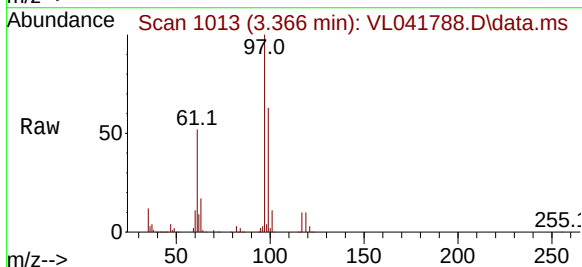
Tgt Ion: 97 Resp: 144038

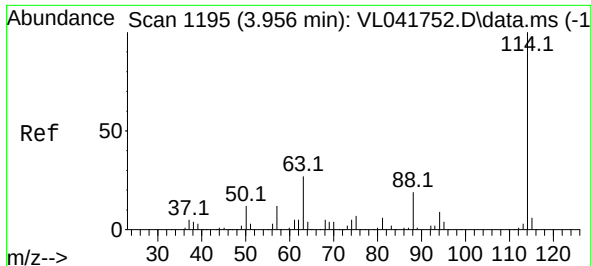
Ion Ratio Lower Upper

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_L

ClientSampleId :

VSTDCCC010

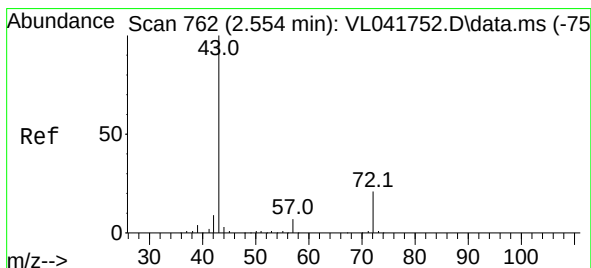
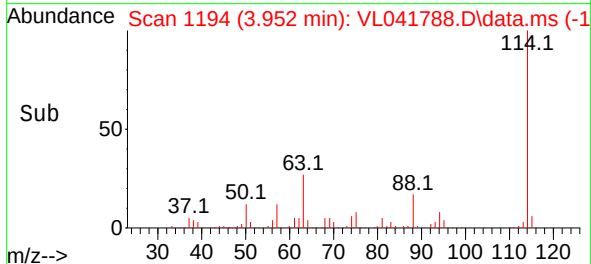
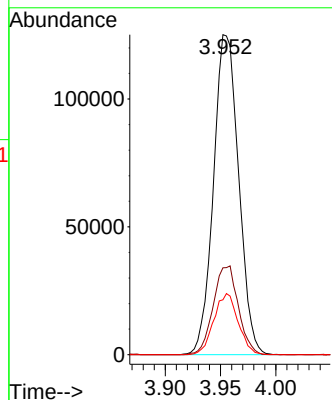
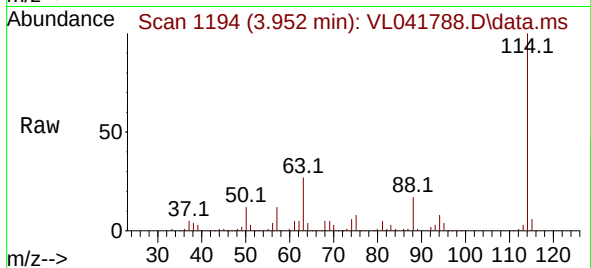
Tgt Ion:114 Resp: 198370

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

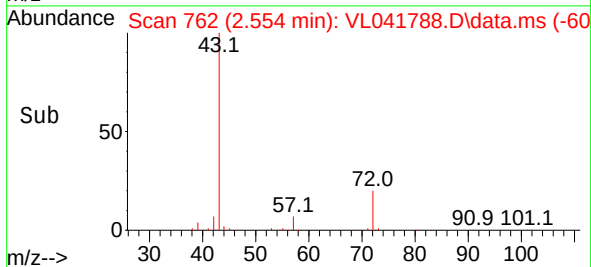
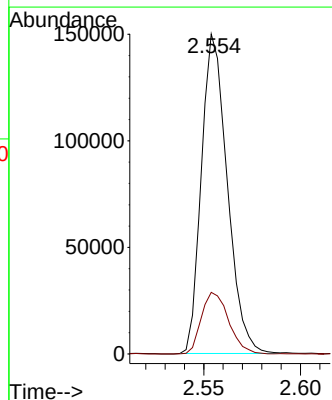
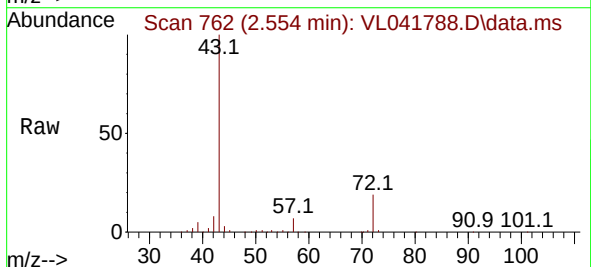
Acq: 18 Dec 2024 10:29

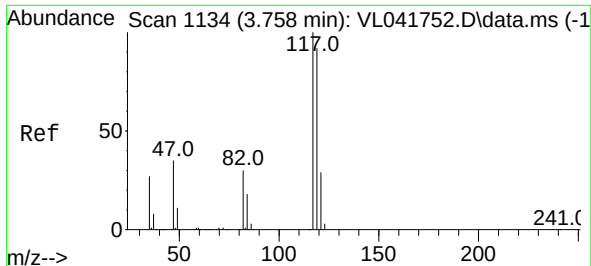
Tgt Ion: 43 Resp: 139509

Ion Ratio Lower Upper

43 100

72 20.5 16.8 25.2

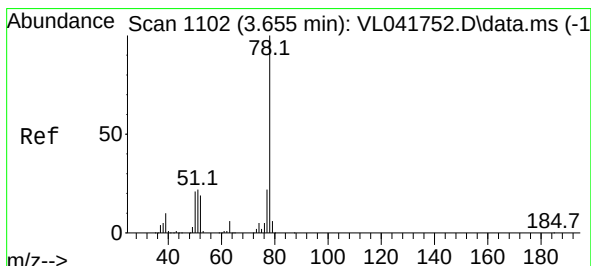
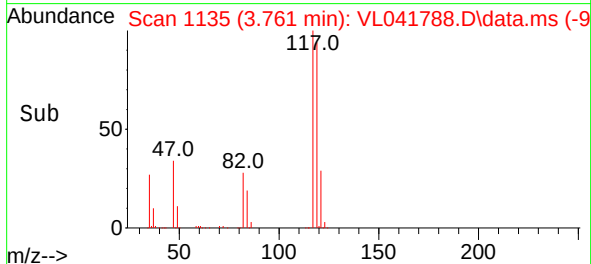
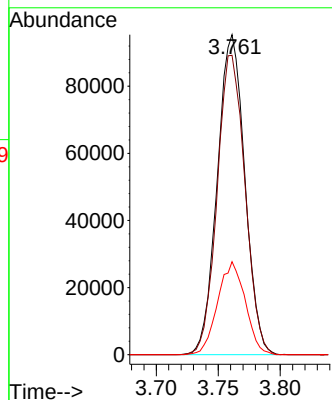
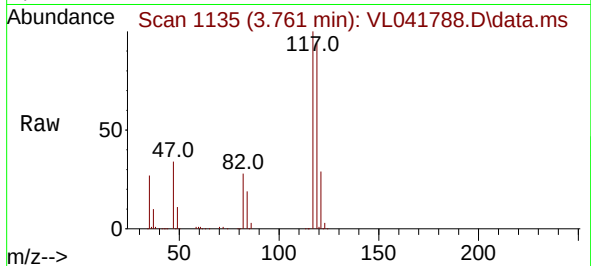




#35
Carbon Tetrachloride
Concen: 10.490 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

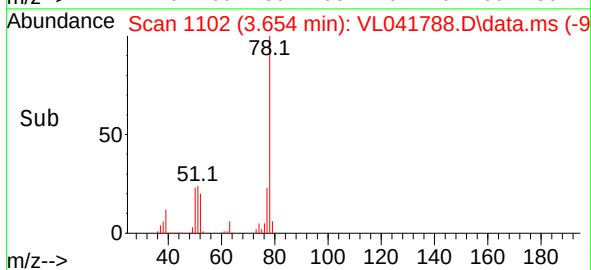
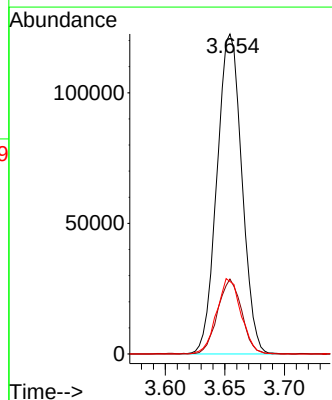
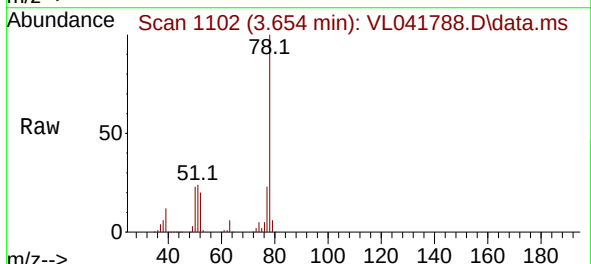
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

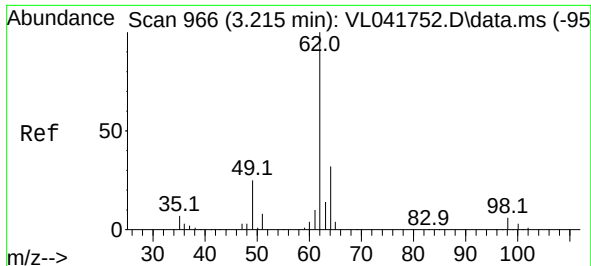
Tgt Ion:117 Resp: 147726
Ion Ratio Lower Upper
117 100
119 93.5 73.7 110.5
121 29.1 23.0 34.4



#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

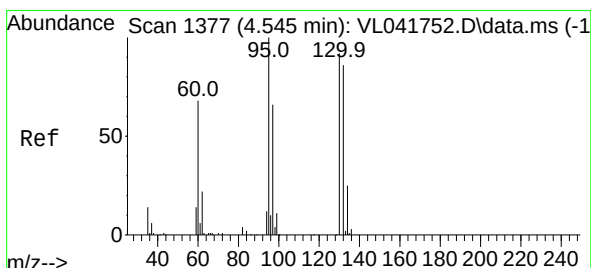
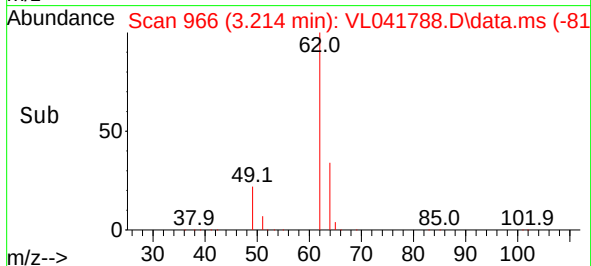
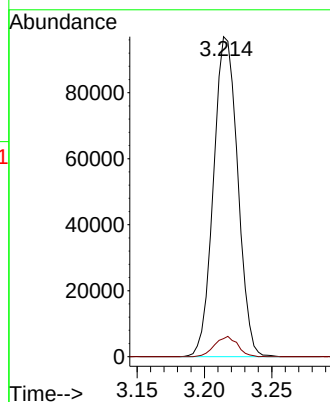
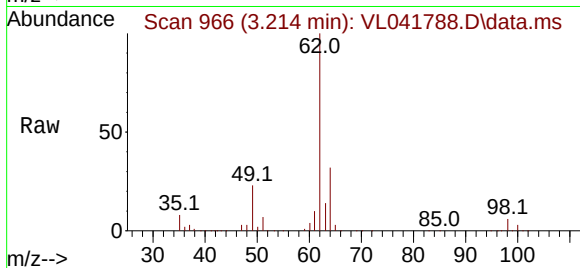




#37
1,2-Dichloroethane
Concen: 9.509 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

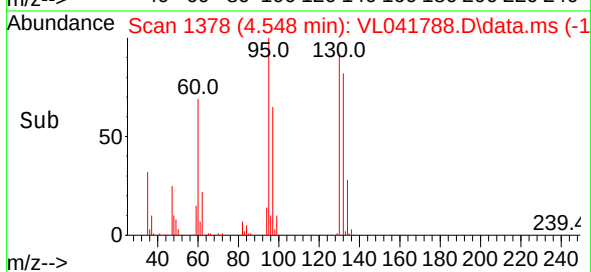
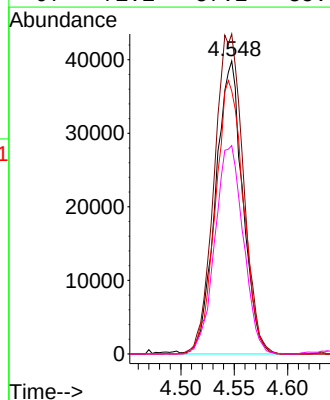
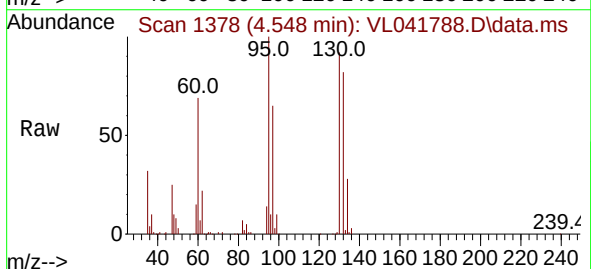
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

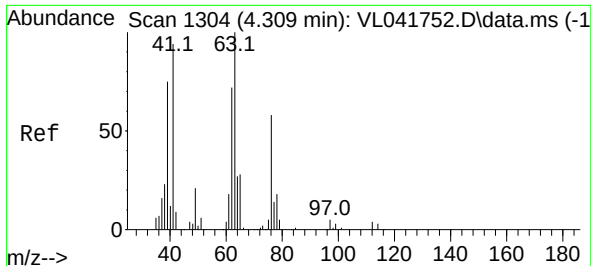
Tgt Ion: 62 Resp: 121412
Ion Ratio Lower Upper
62 100
98 6.0 4.7 7.1



#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

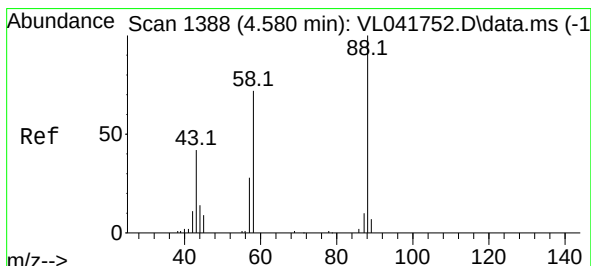
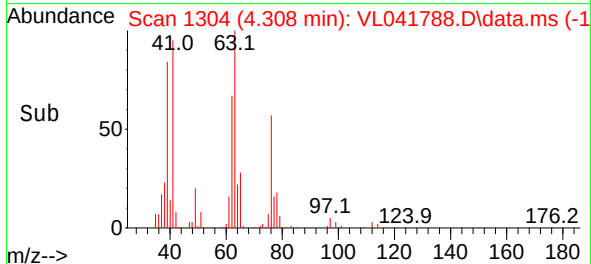
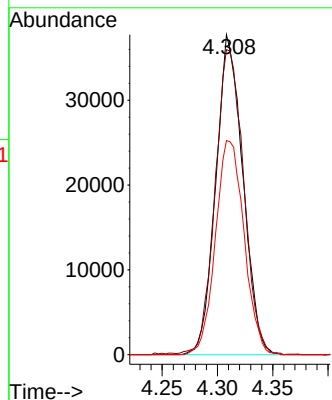
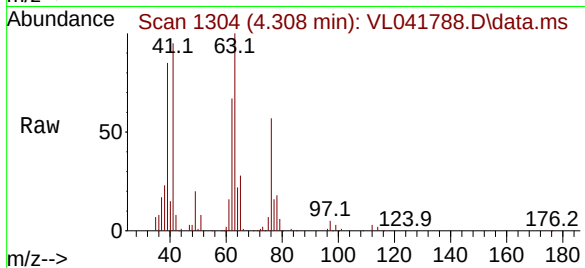
Tgt Ion: 63 Resp: 64154

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

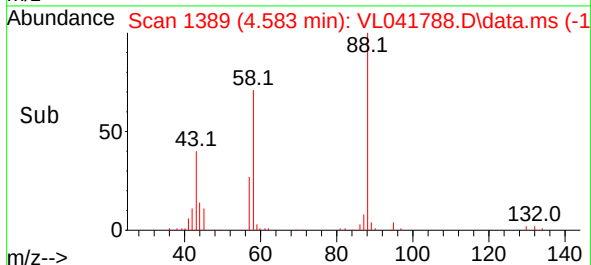
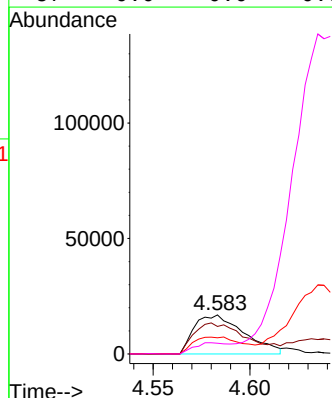
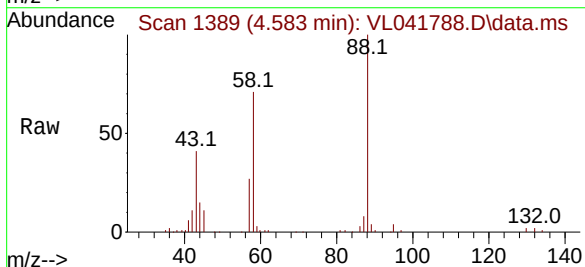
Ion Ratio Lower Upper

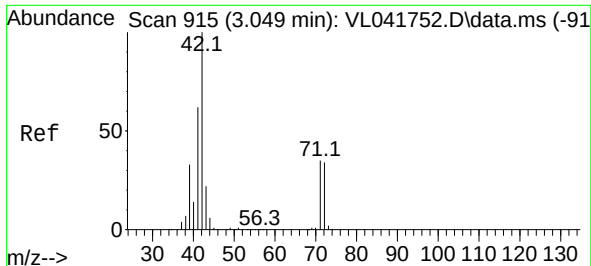
88 100

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

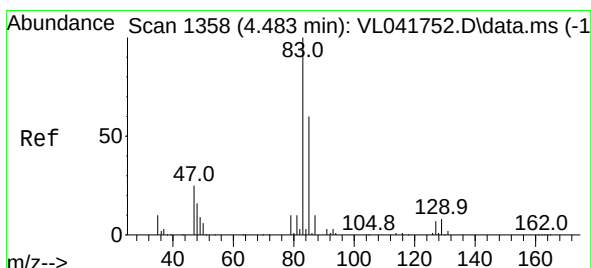
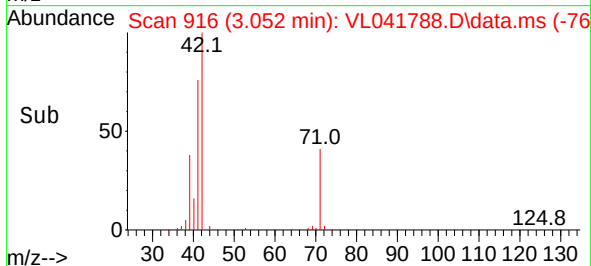
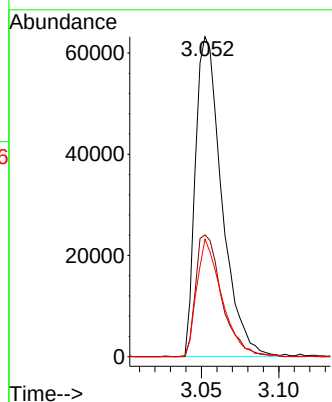
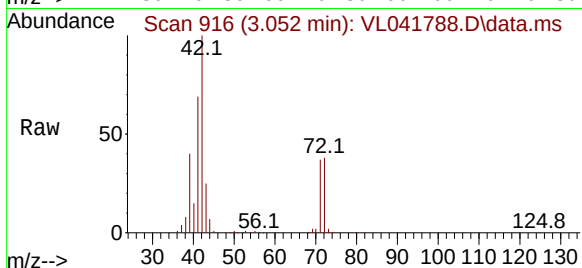
Tgt Ion: 42 Resp: 74734

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

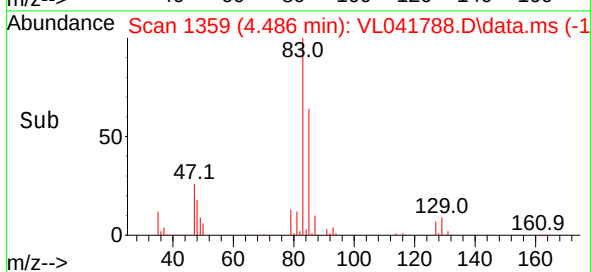
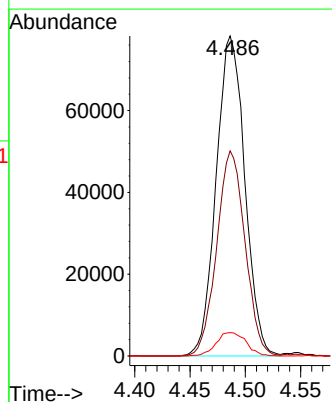
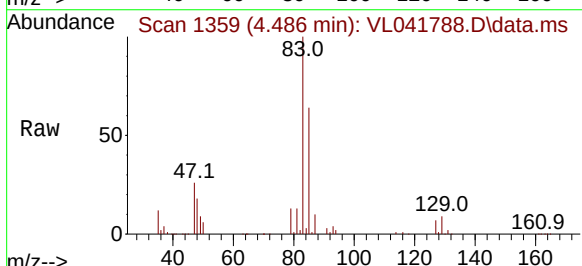
Tgt Ion: 83 Resp: 140832

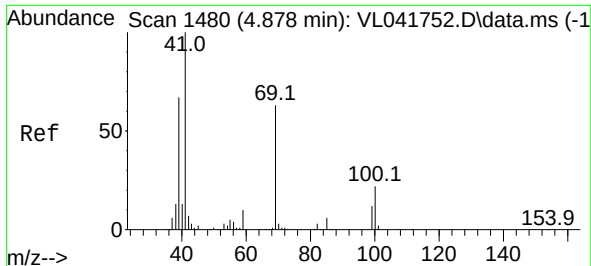
Ion Ratio Lower Upper

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

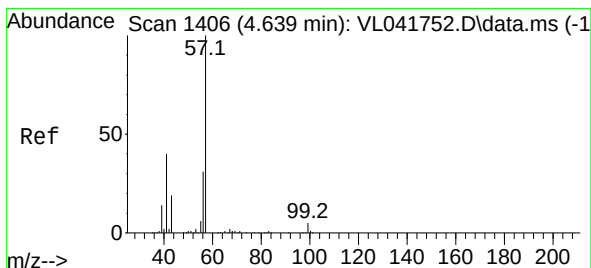
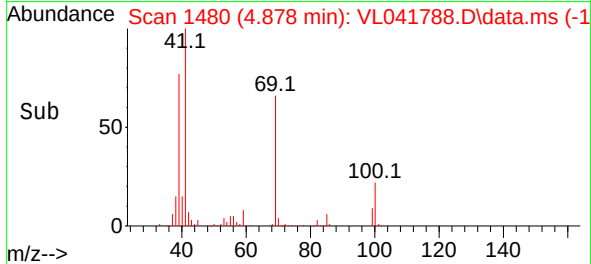
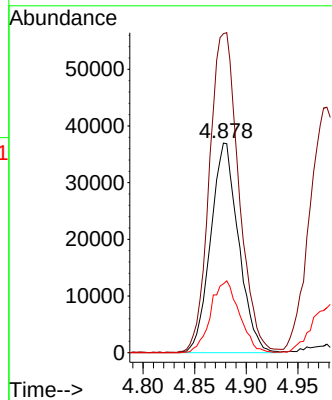
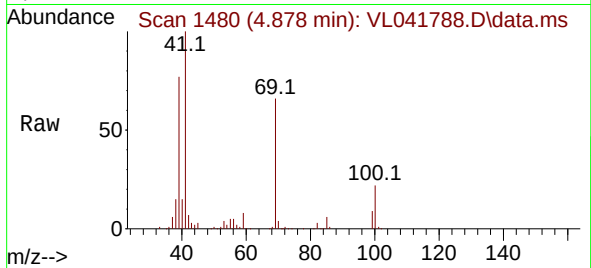
Tgt Ion: 69 Resp: 69545

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

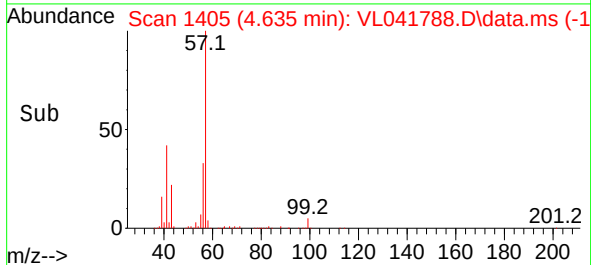
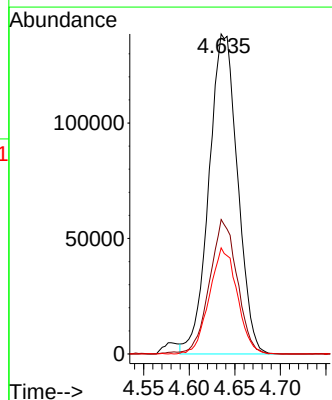
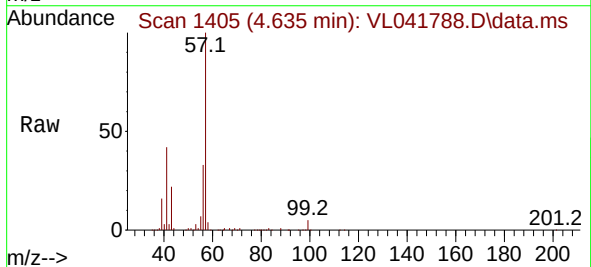
Tgt Ion: 57 Resp: 302332

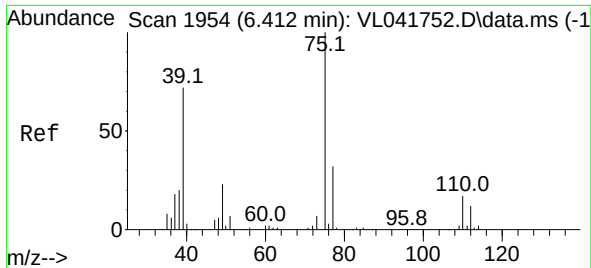
Ion Ratio Lower Upper

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 :

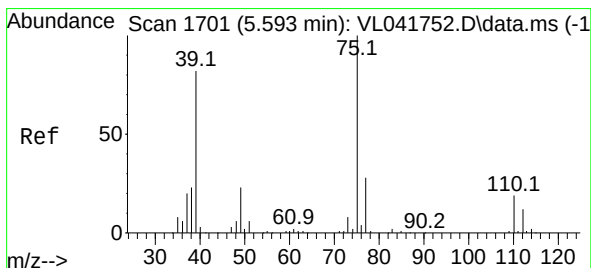
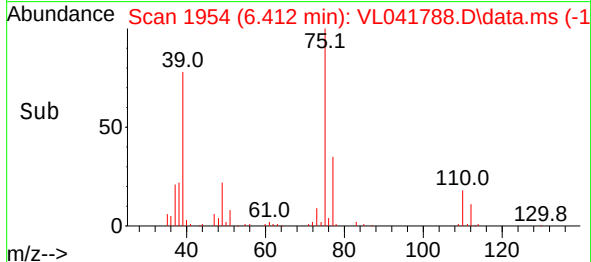
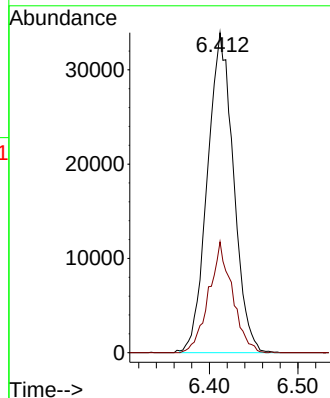
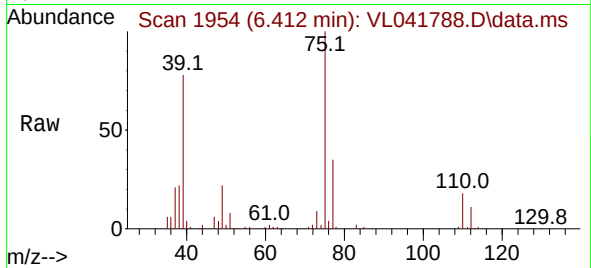
VSTDCCC010

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

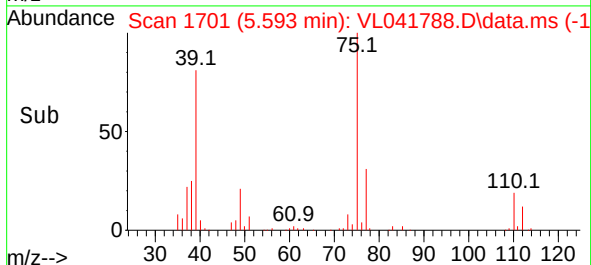
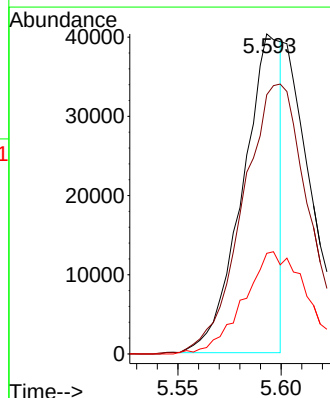
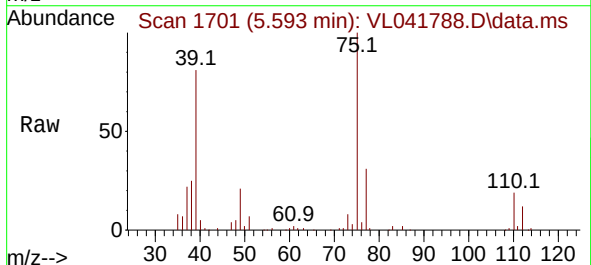
Tgt Ion: 75 Resp: 52196

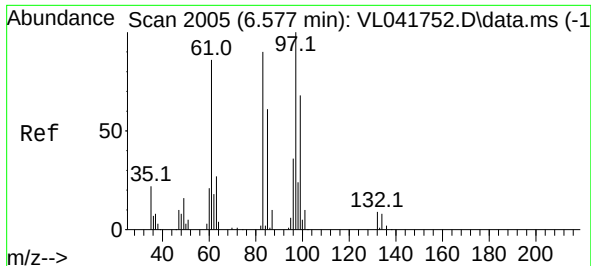
Ion Ratio Lower Upper

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

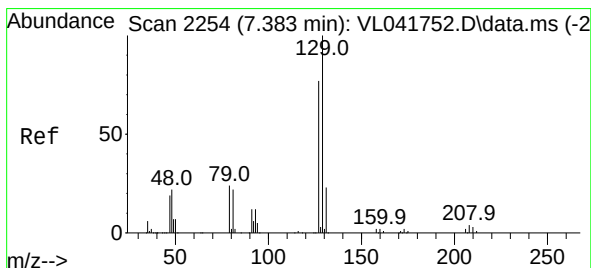
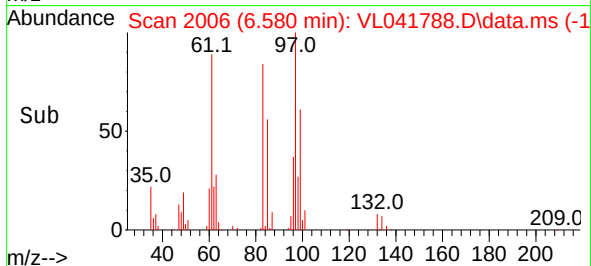
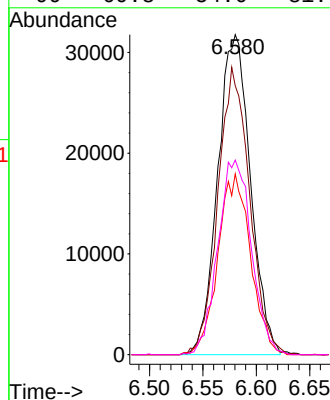
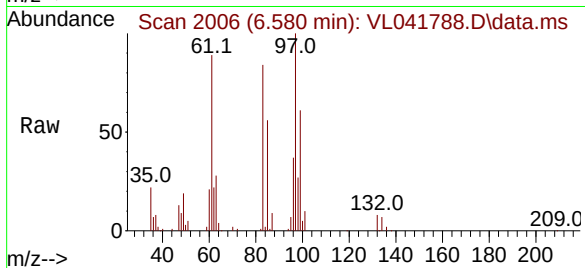
Ion Ratio Lower Upper

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

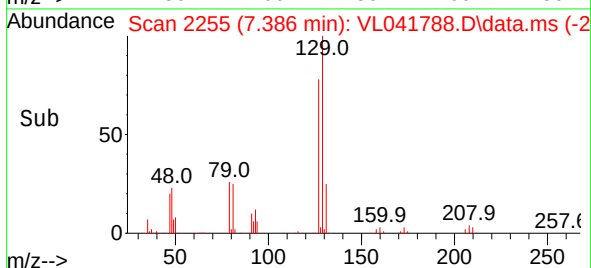
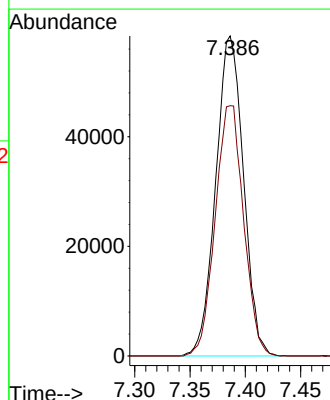
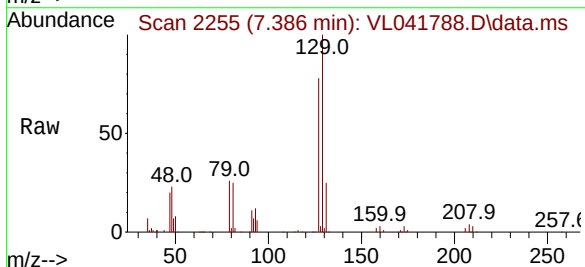
Acq: 18 Dec 2024 10:29

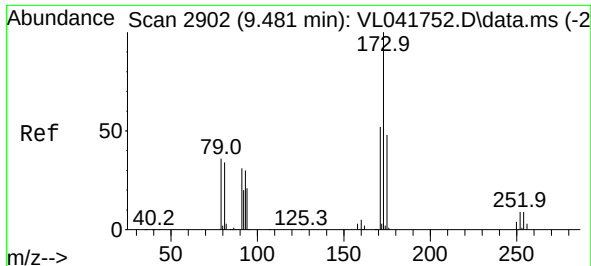
Tgt Ion: 129 Resp: 101875

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

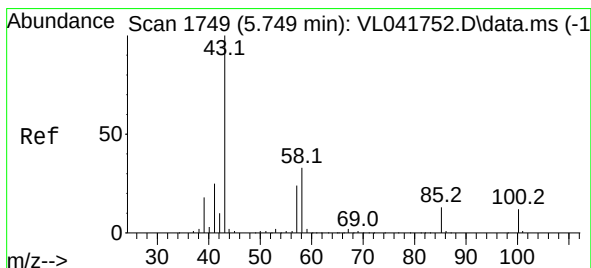
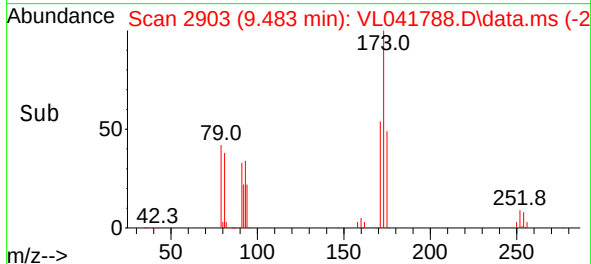
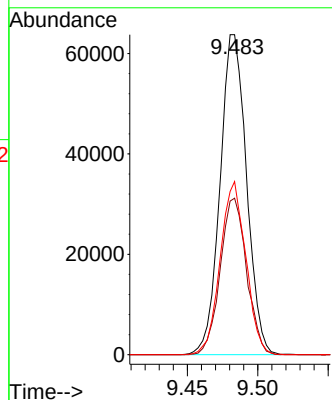
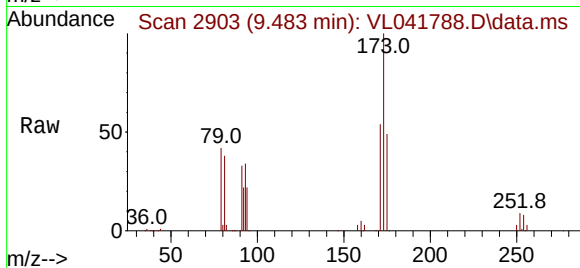
Tgt Ion:173 Resp: 83649

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

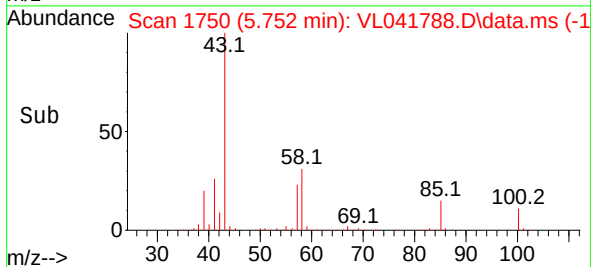
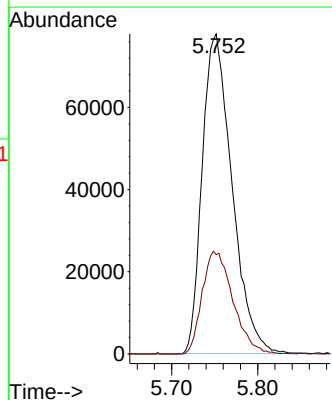
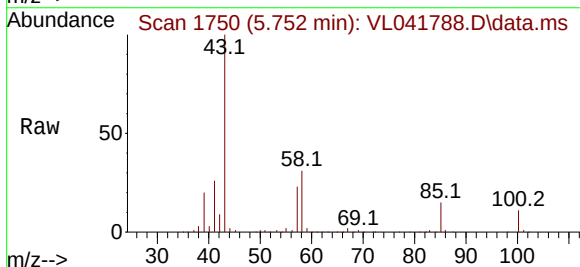
Acq: 18 Dec 2024 10:29

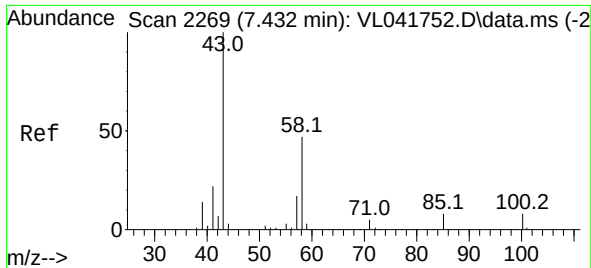
Tgt Ion: 43 Resp: 186865

Ion Ratio Lower Upper

43 100

58 33.2 26.8 40.2

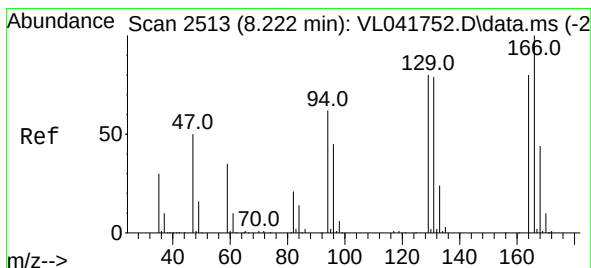
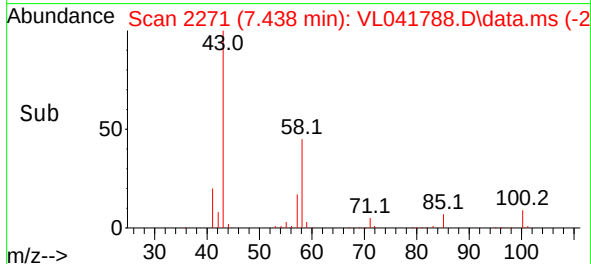
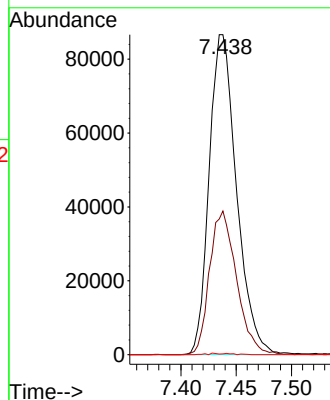
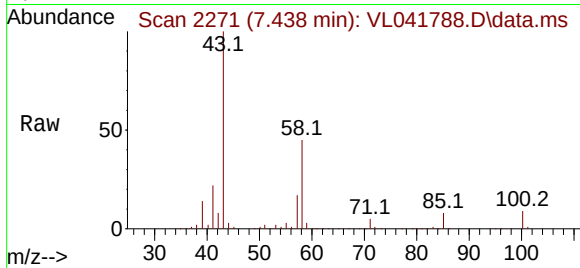




#51
2-Hexanone
Concen: 8.472 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

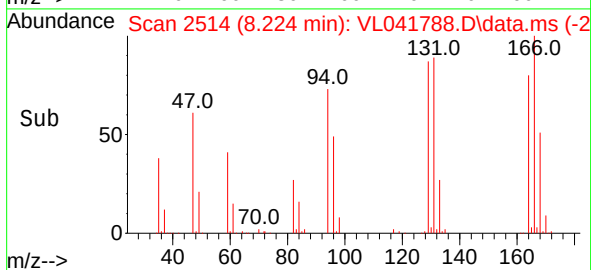
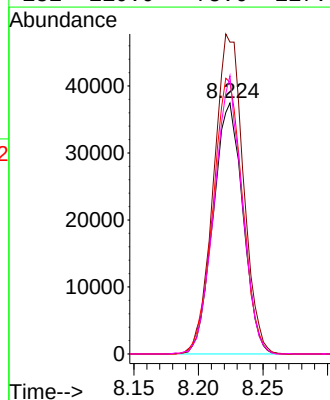
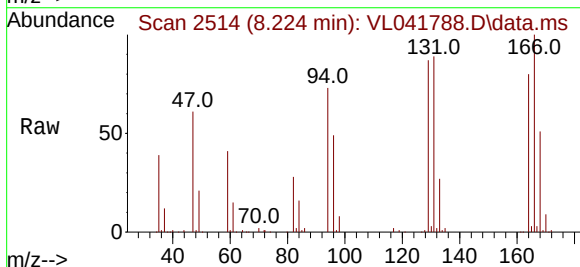
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

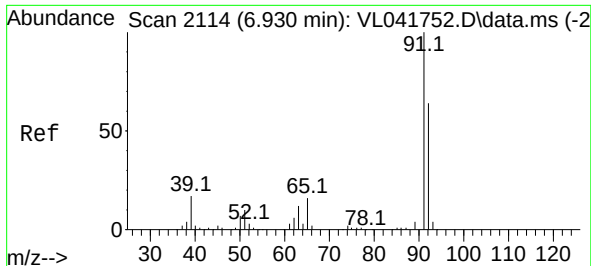
Tgt Ion: 43 Resp: 149217
Ion Ratio Lower Upper
43 100
58 44.3 36.6 55.0
98 0.4 0.1 0.1#



#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 :

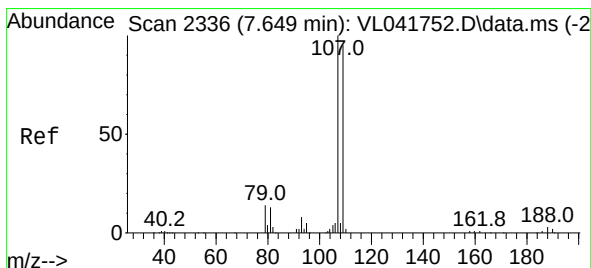
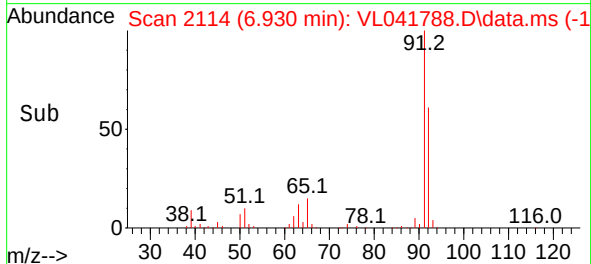
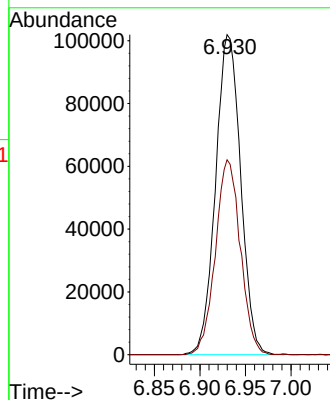
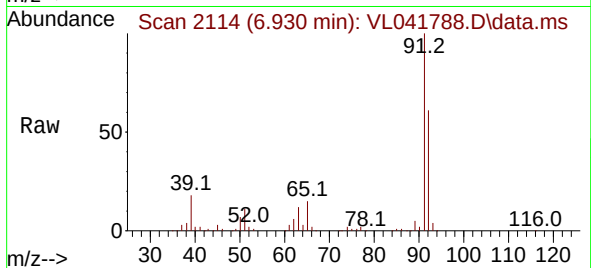
VSTDCCC010

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

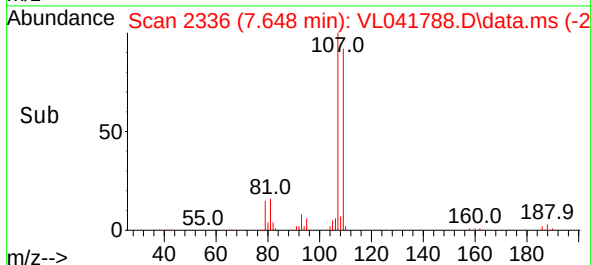
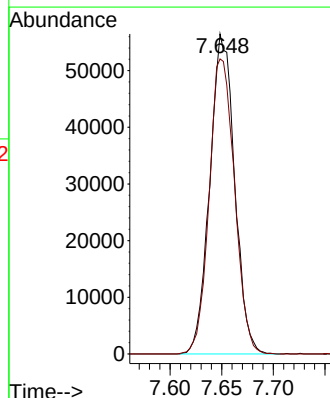
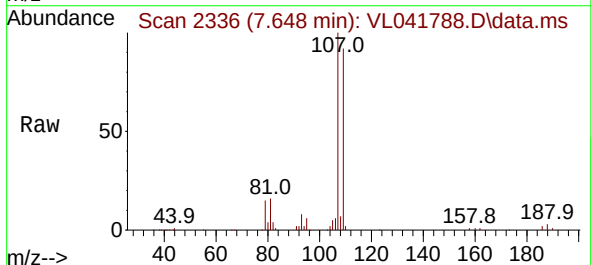
Acq: 18 Dec 2024 10:29

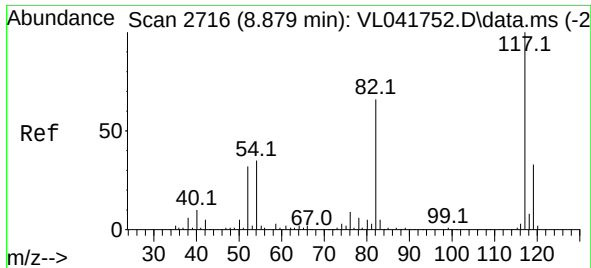
Tgt Ion: 107 Resp: 94138

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# 2716

Delta R.T. 0.003 min

Lab File: VL041788.D

Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

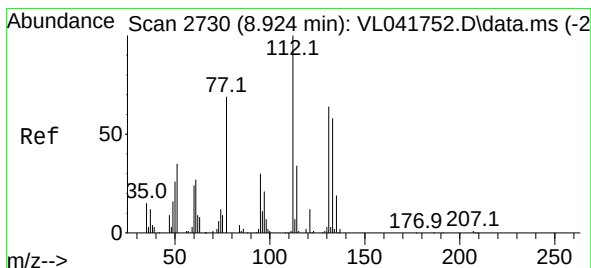
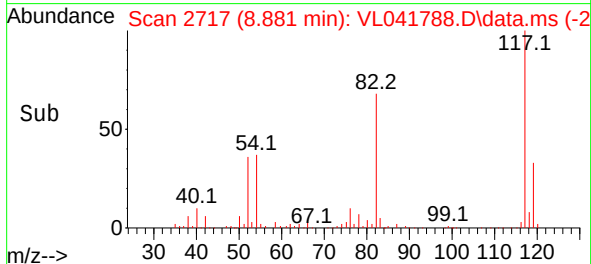
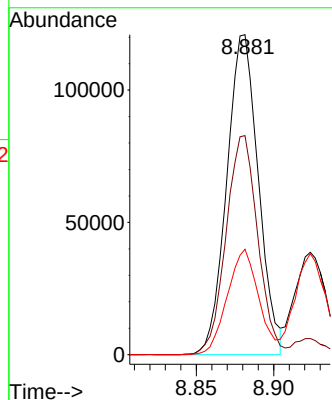
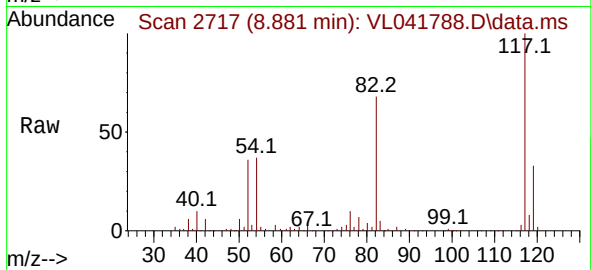
Tgt Ion:117 Resp: 172190

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

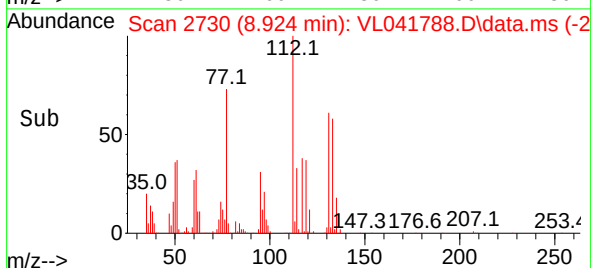
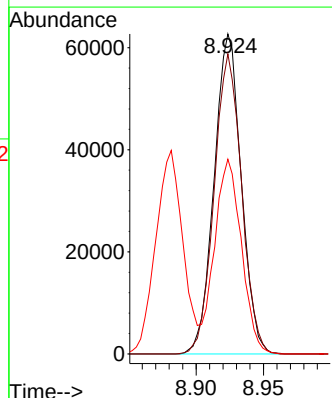
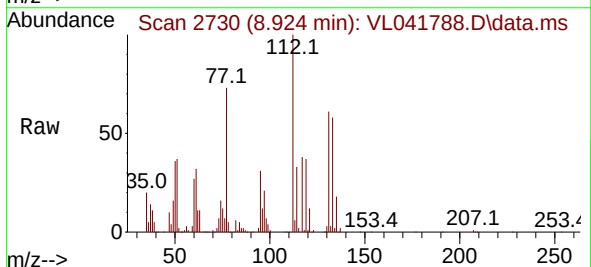
Tgt Ion:131 Resp: 87869

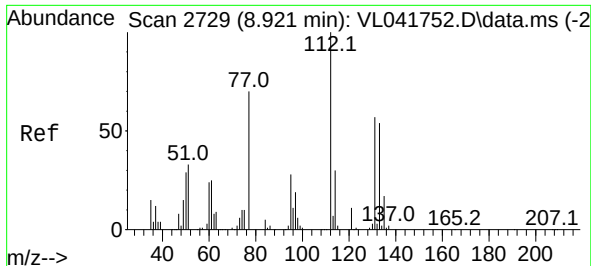
Ion Ratio Lower Upper

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

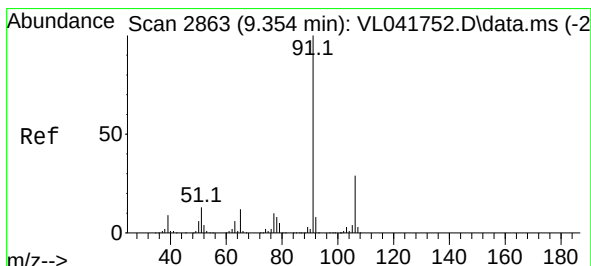
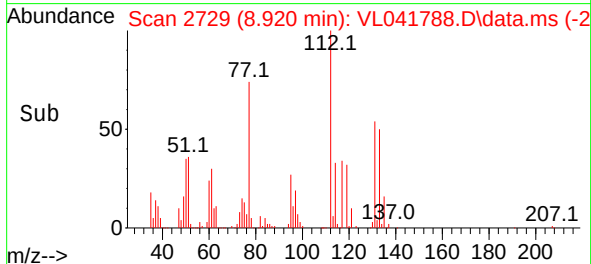
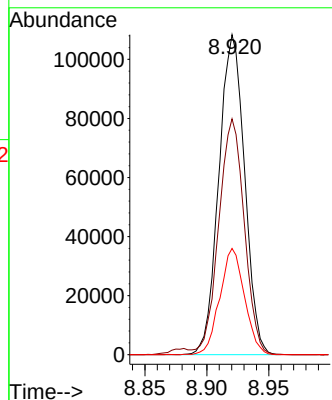
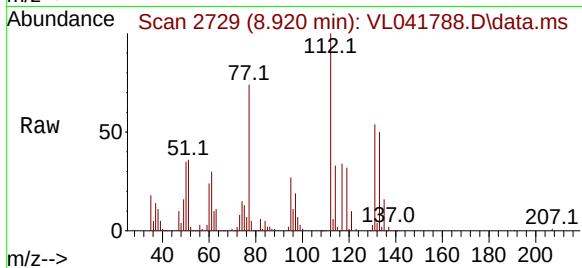
Tgt Ion:112 Resp: 157039

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

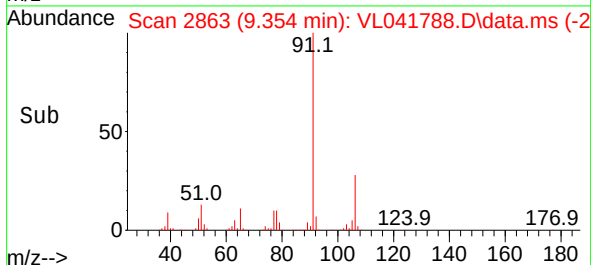
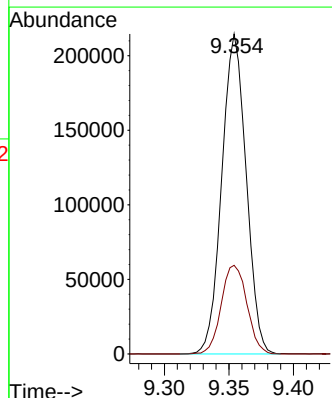
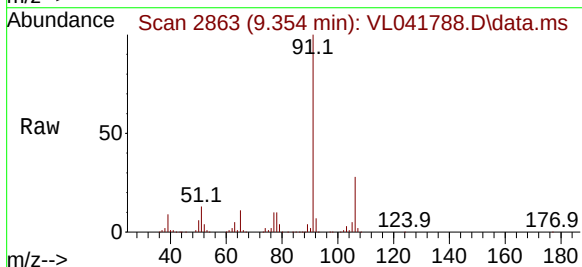
Acq: 18 Dec 2024 10:29

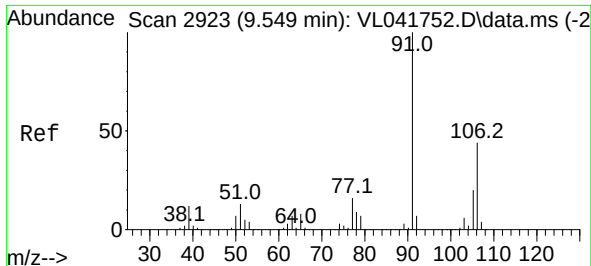
Tgt Ion: 91 Resp: 281290

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 :

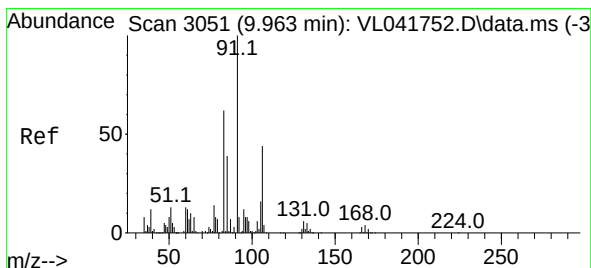
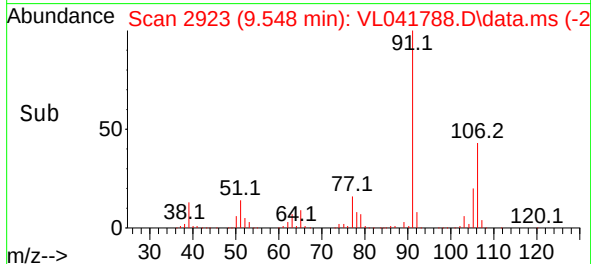
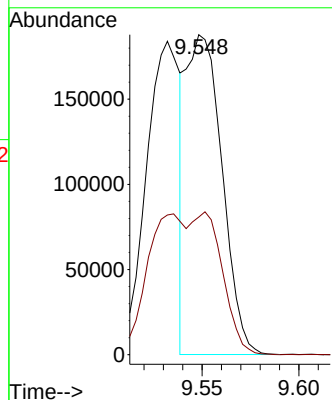
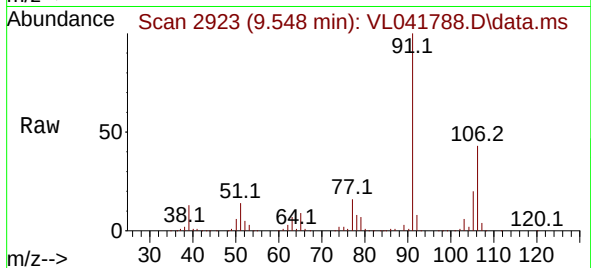
VSTDCCC010

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

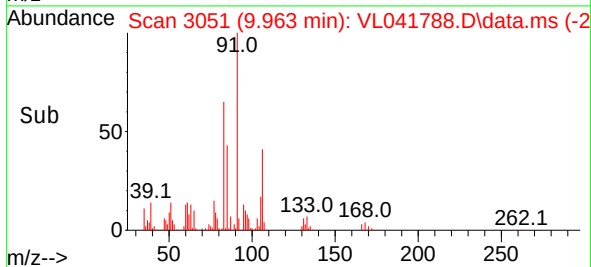
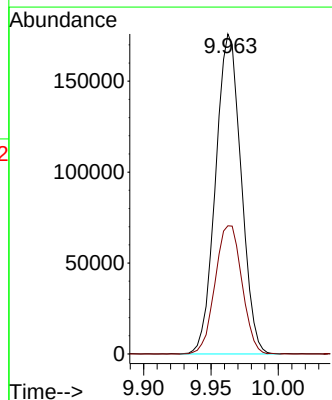
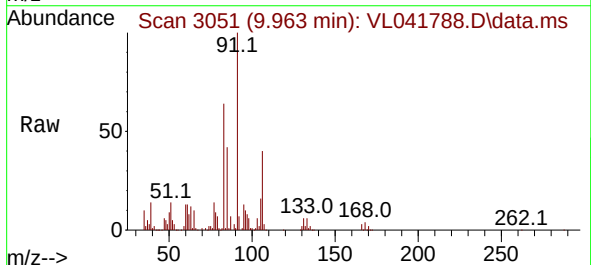
Acq: 18 Dec 2024 10:29

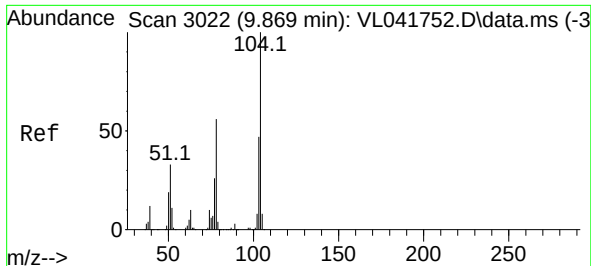
Tgt Ion: 91 Resp: 232028

Ion Ratio Lower Upper

91 100

106 42.1 21.1 63.4

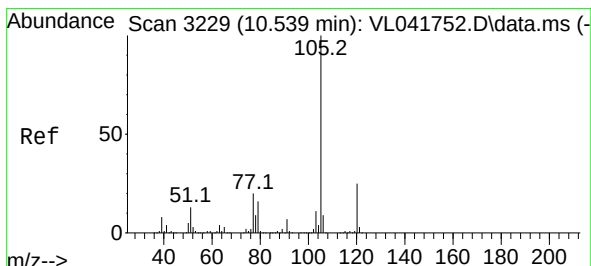
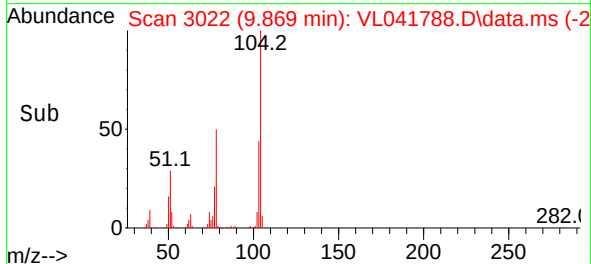
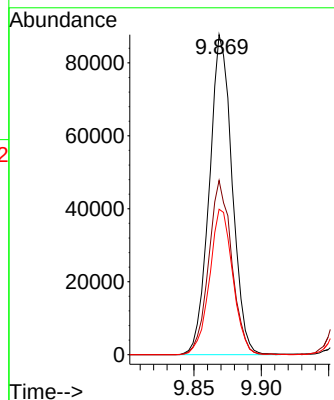
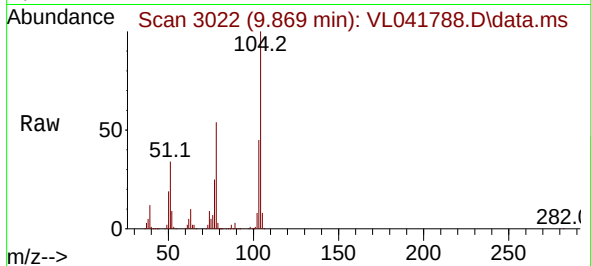




#61
Styrene
Concen: 9.550 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

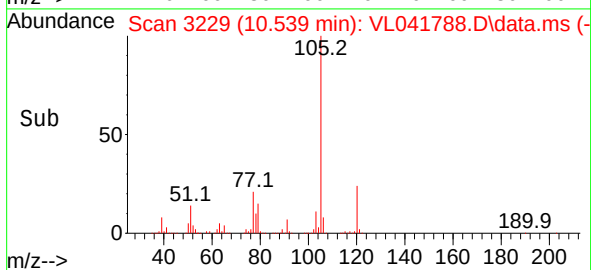
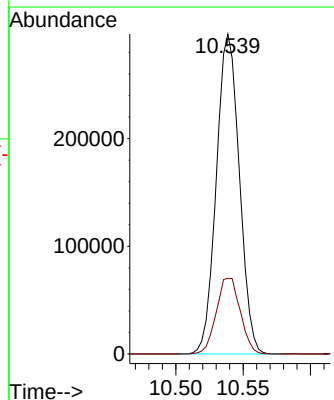
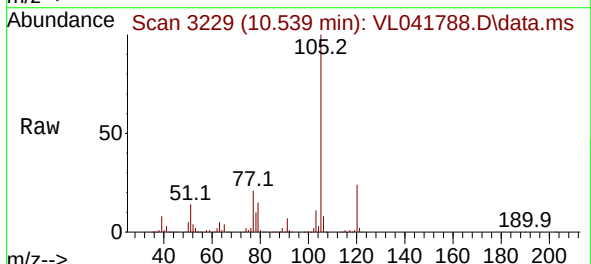
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

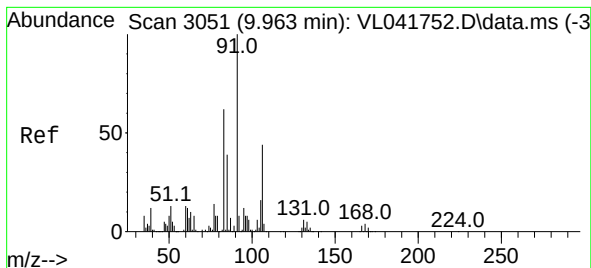
Tgt Ion:104 Resp: 103216
Ion Ratio Lower Upper
104 100
78 55.1 43.8 65.6
103 46.5 37.8 56.6



#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

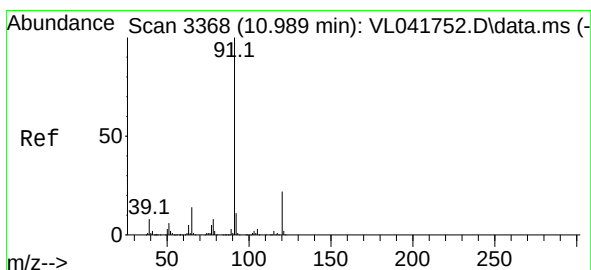
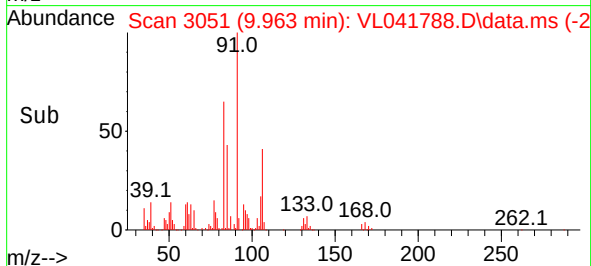
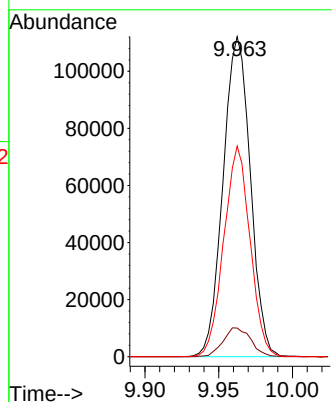
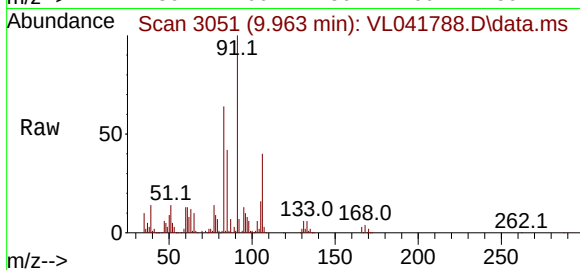
Tgt Ion: 83 Resp: 144197

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

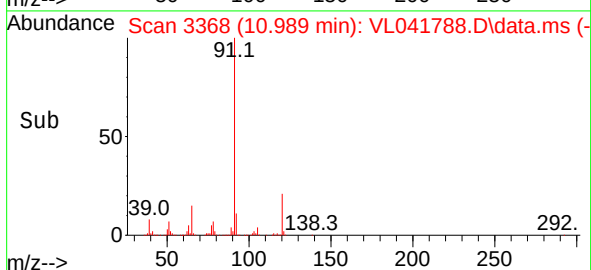
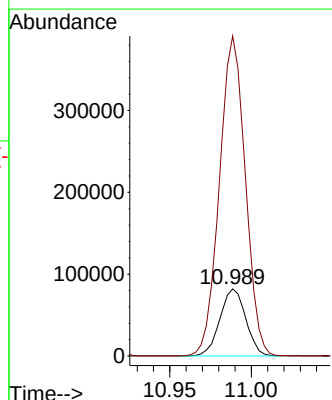
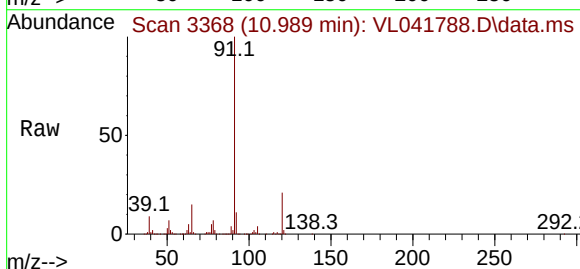
Acq: 18 Dec 2024 10:29

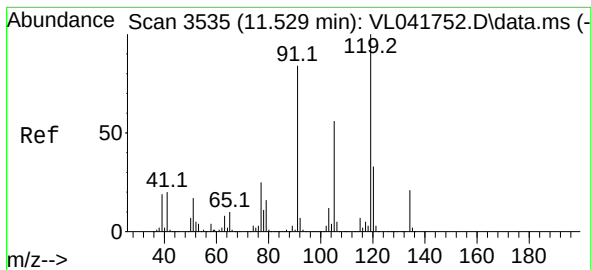
Tgt Ion:120 Resp: 90043

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_L

ClientSampleId :

VSTDCCC010

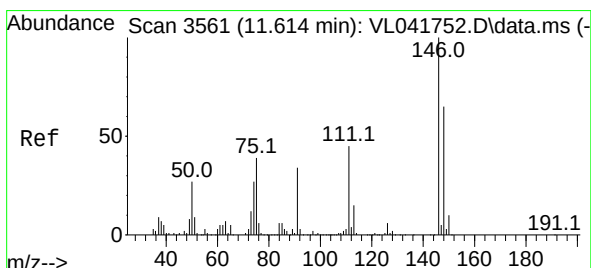
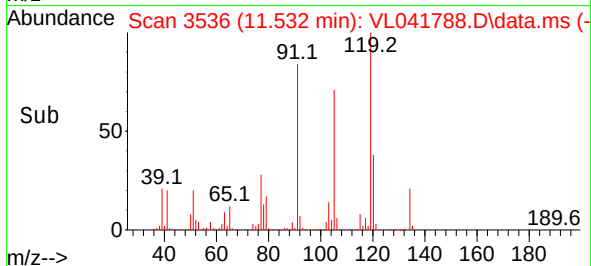
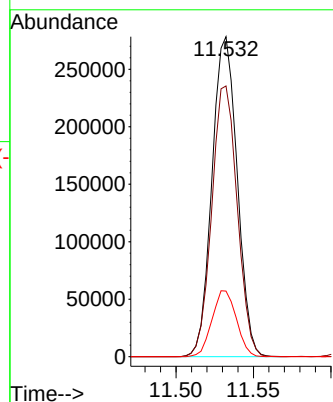
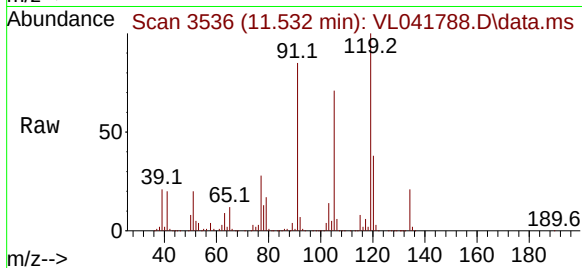
Tgt Ion:119 Resp: 314940

Ion Ratio Lower Upper

119 100

91 85.5 67.0 100.4

134 19.9 16.5 24.7



#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

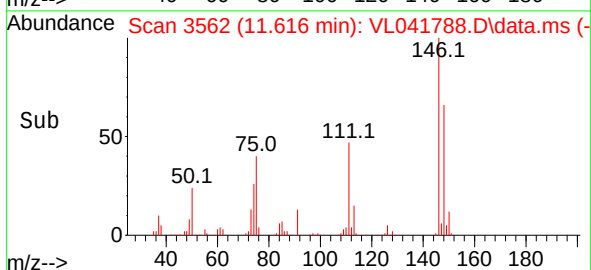
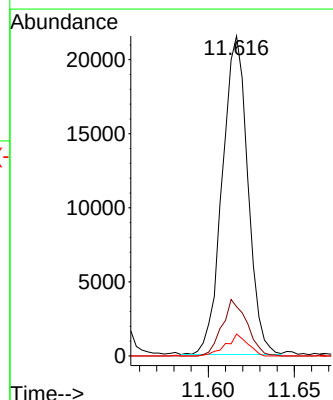
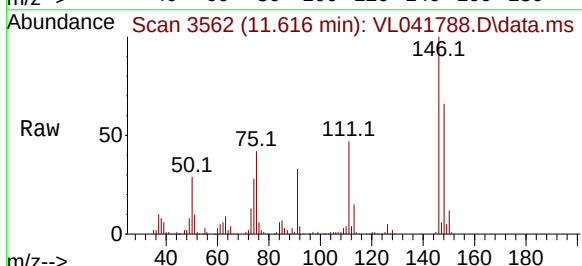
Tgt Ion: 91 Resp: 22164

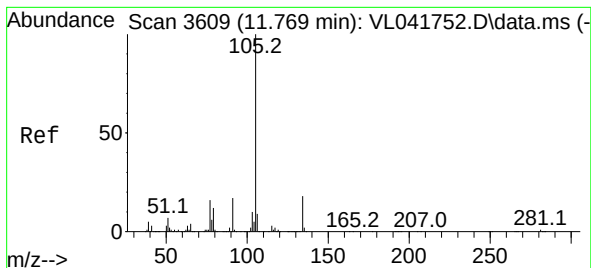
Ion Ratio Lower Upper

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 :

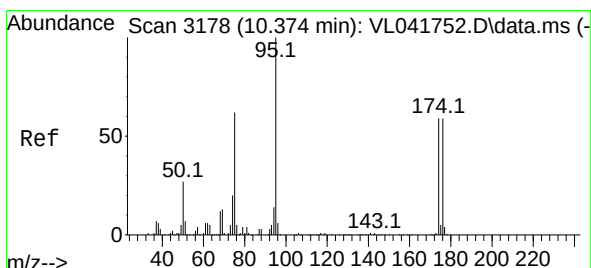
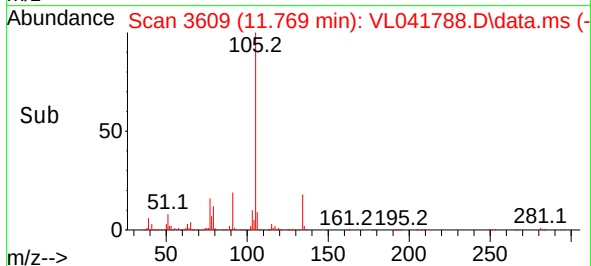
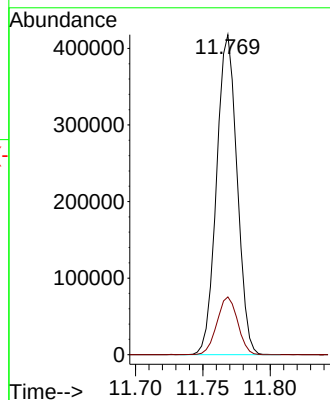
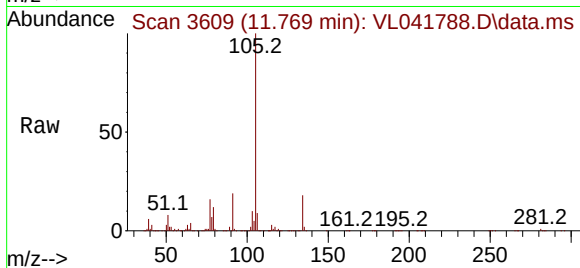
VSTDCCC010

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

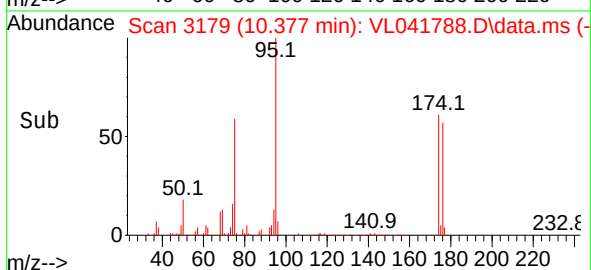
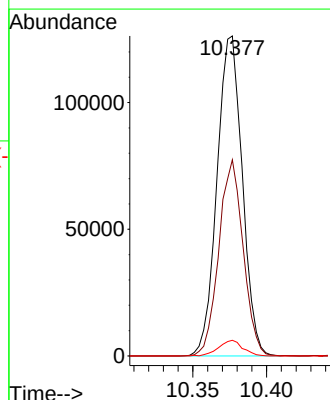
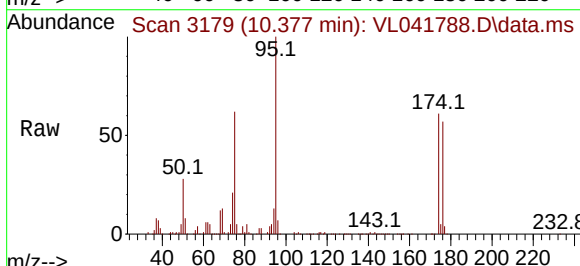
Tgt Ion: 95 Resp: 150705

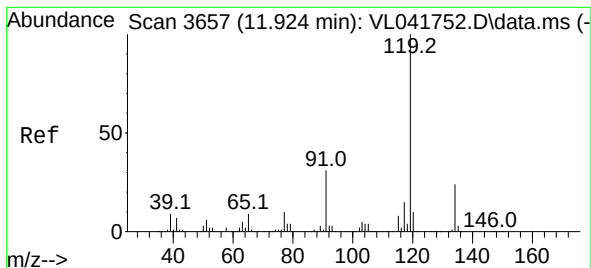
Ion Ratio Lower Upper

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

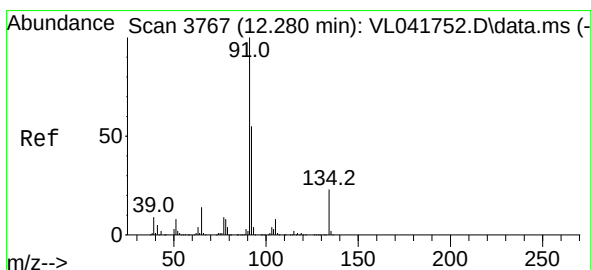
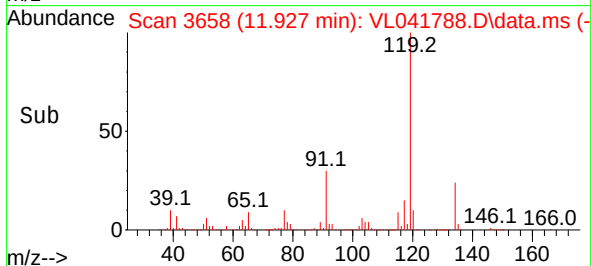
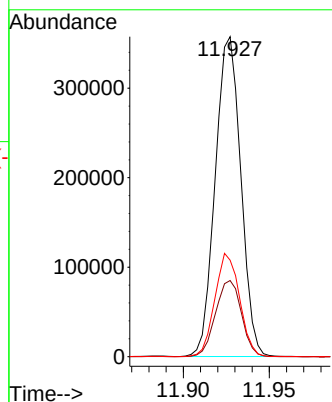
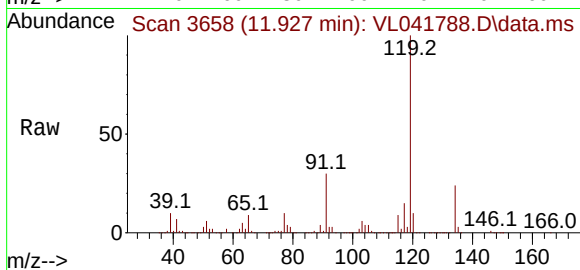
Tgt Ion:119 Resp: 369746

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

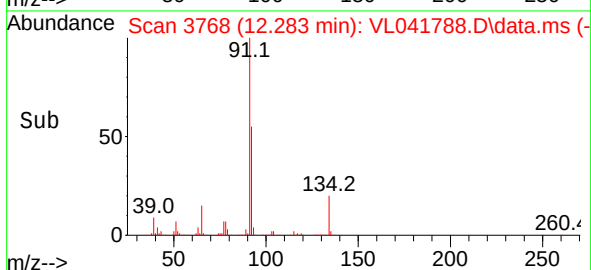
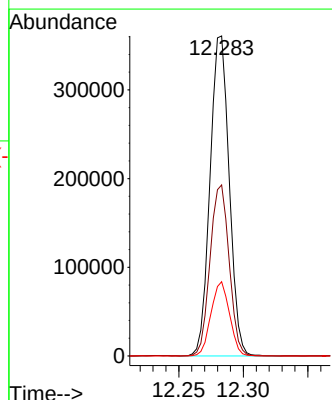
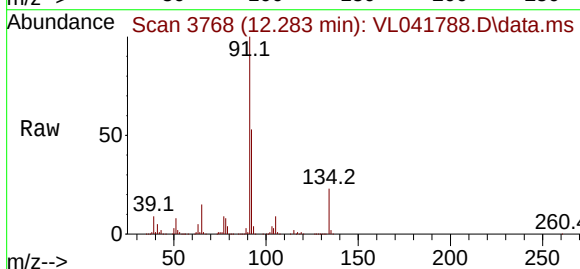
Tgt Ion: 91 Resp: 373294

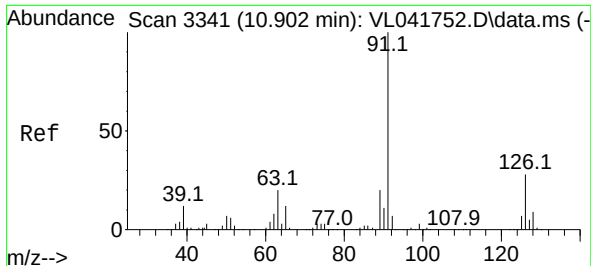
Ion Ratio Lower Upper

91 100

92 53.4 43.2 64.8

134 22.5 18.2 27.4

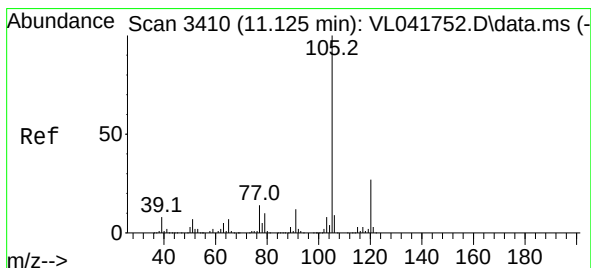
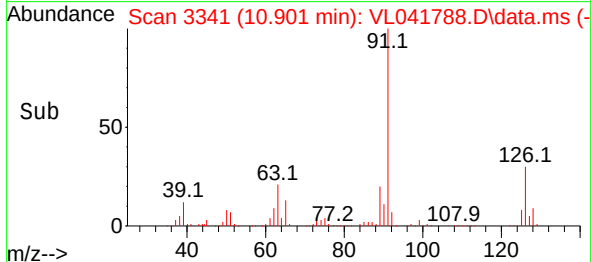
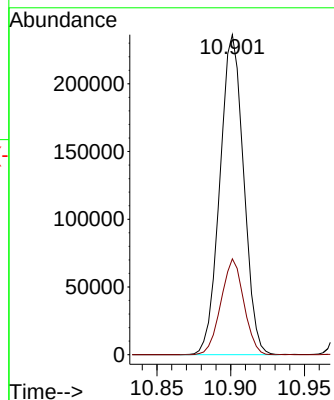
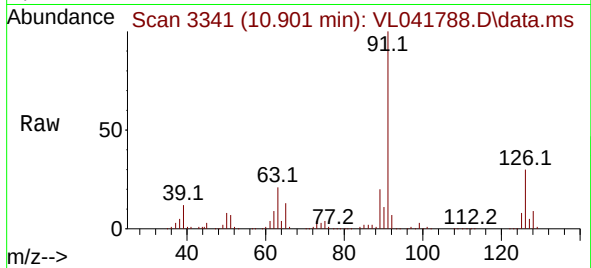




#71
2-Chlorotoluene
Concen: 9.240 ppbv
RT: 10.901 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

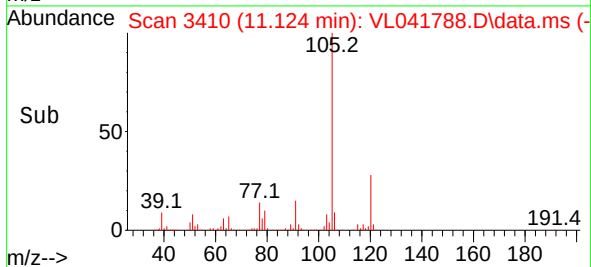
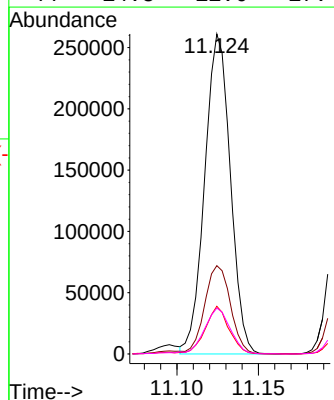
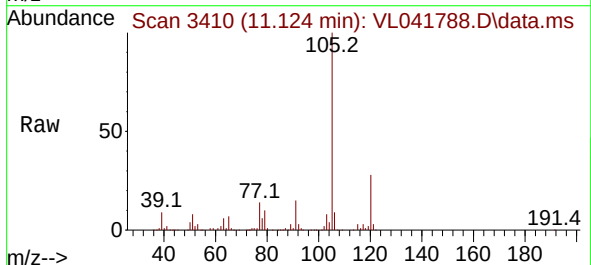
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

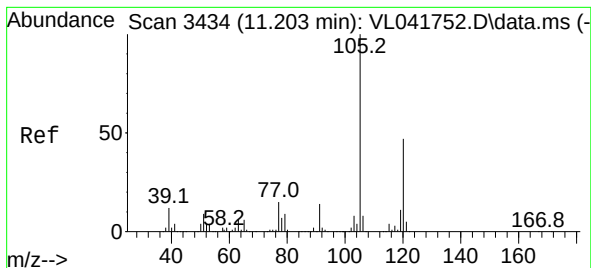
Tgt Ion: 91 Resp: 264866
Ion Ratio Lower Upper
91 100
126 28.7 11.6 46.4



#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 :

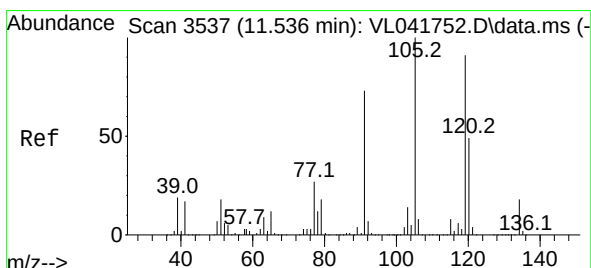
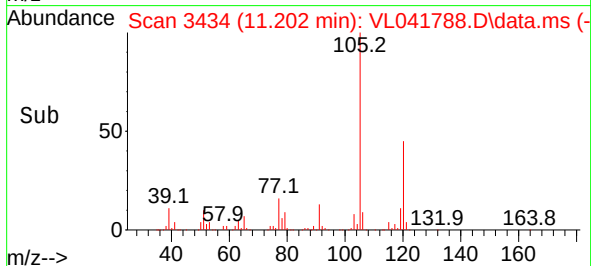
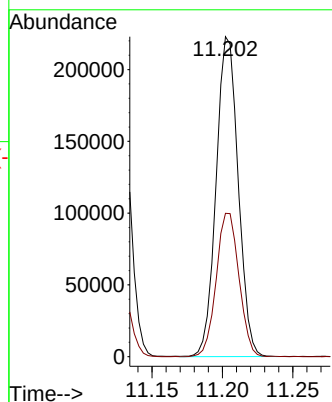
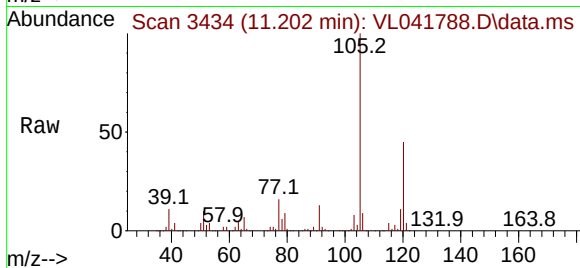
VSTDCCC010

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

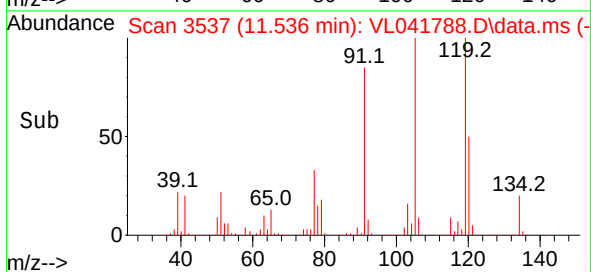
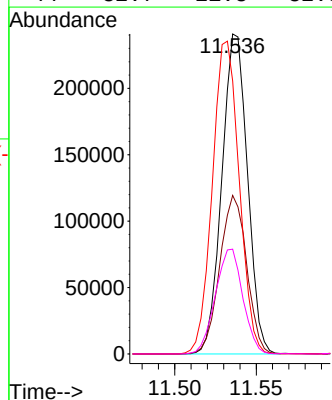
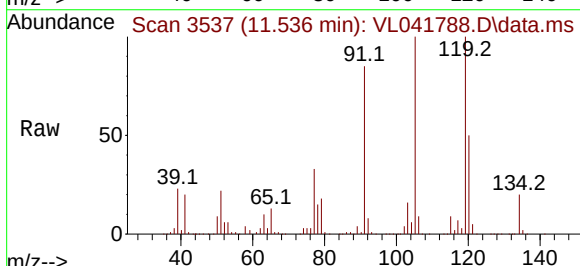
Ion Ratio Lower Upper

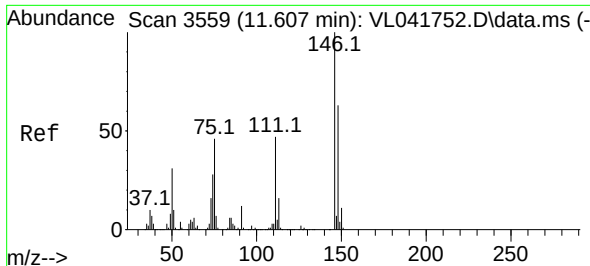
105 100

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

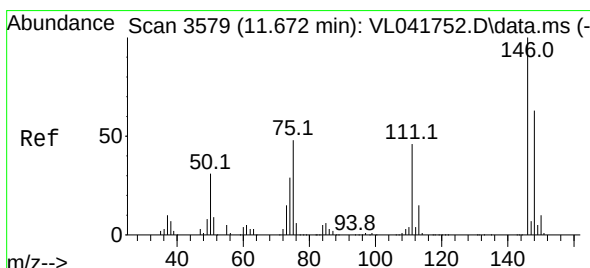
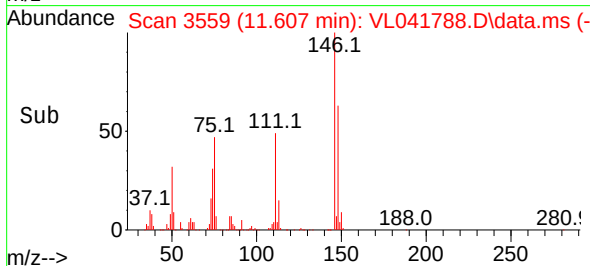
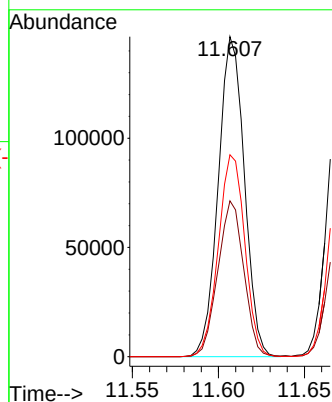
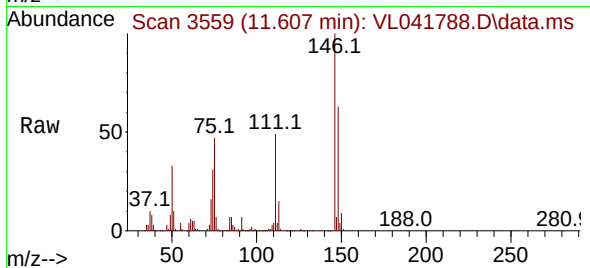
Tgt Ion:146 Resp: 154857

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

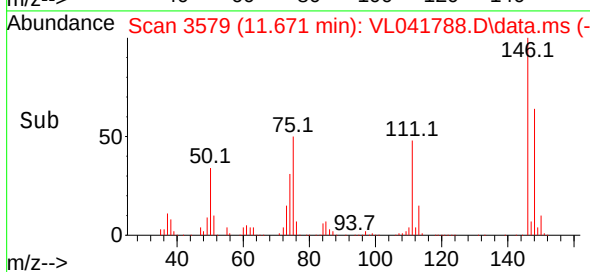
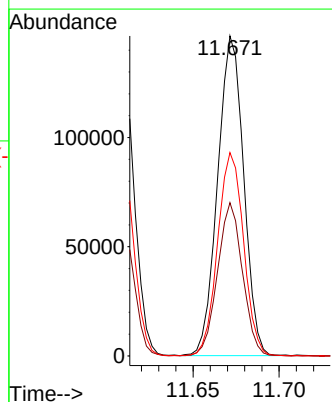
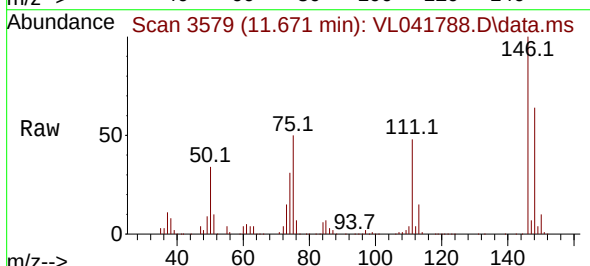
Tgt Ion:146 Resp: 154115

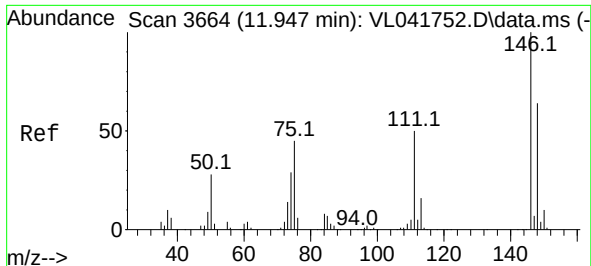
Ion Ratio Lower Upper

146 100

111 46.1 22.7 68.1

148 63.5 31.4 94.0

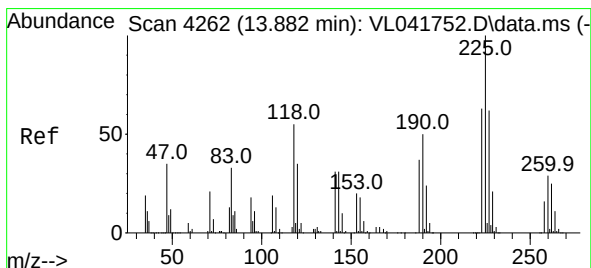
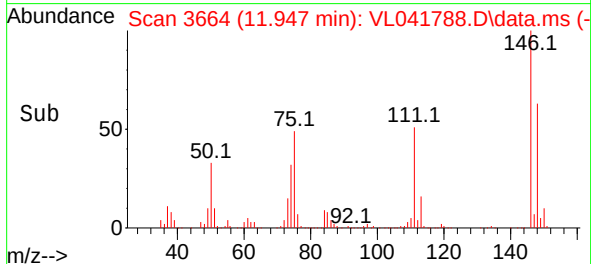
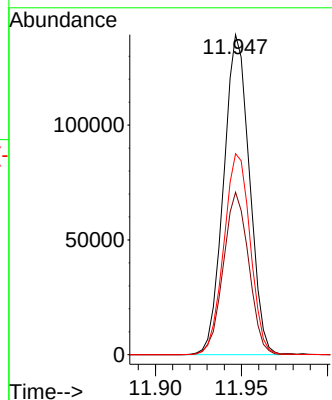
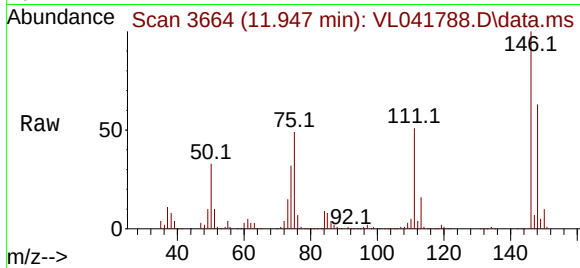




#77
1,2-Dichlorobenzene
Concen: 9.002 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL041788.D
Acq: 18 Dec 2024 10:29

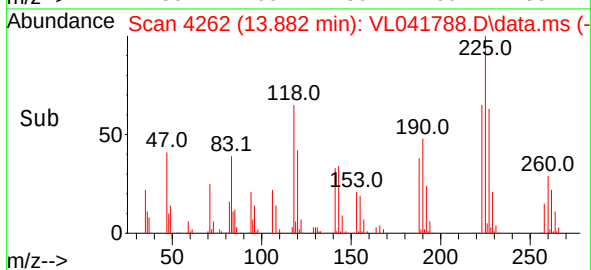
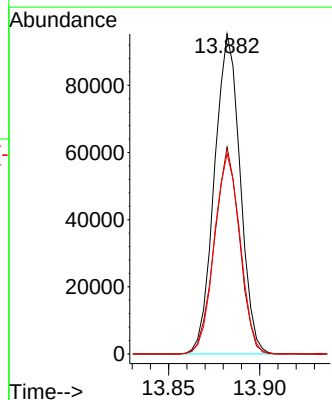
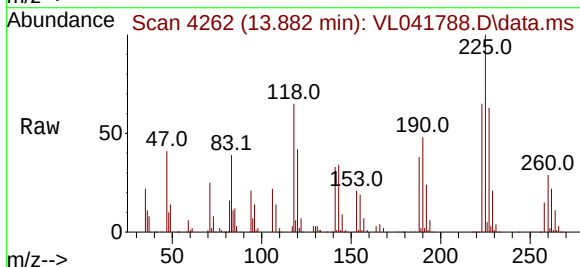
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

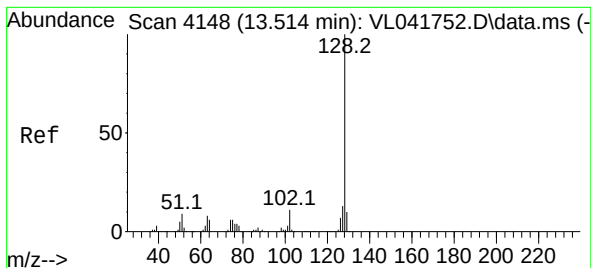
Tgt Ion:146 Resp: 145375
Ion Ratio Lower Upper
146 100
111 50.2 24.8 74.3
148 64.4 31.8 95.4



#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

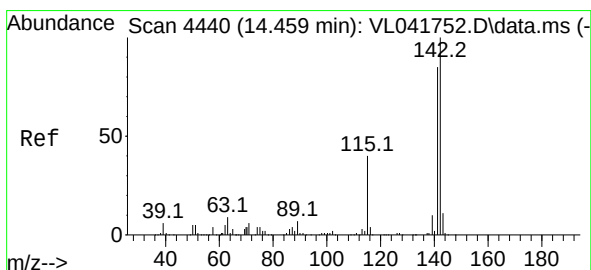
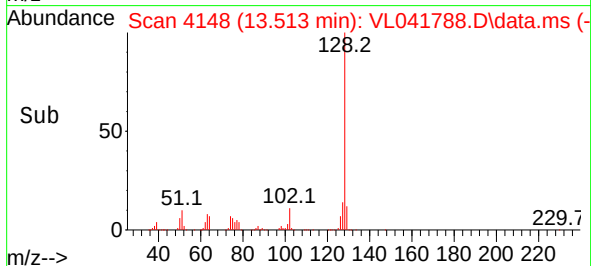
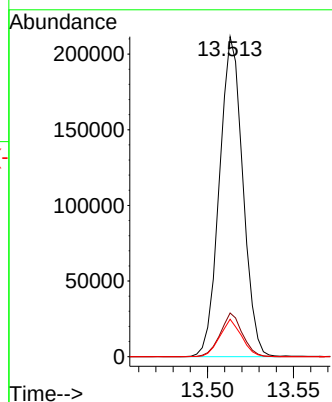
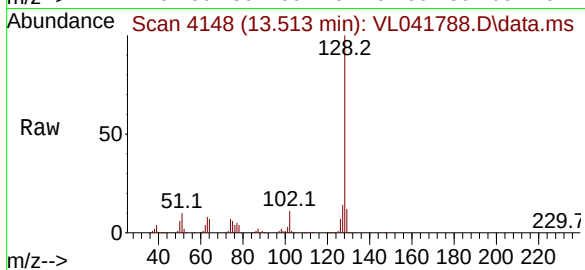
Tgt Ion:128 Resp: 200311

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

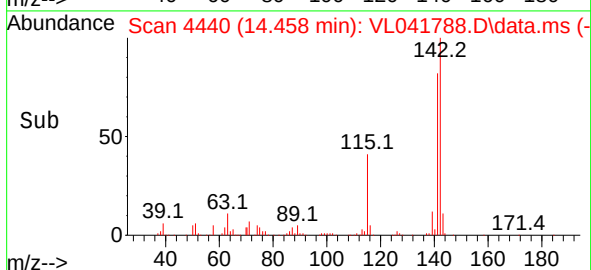
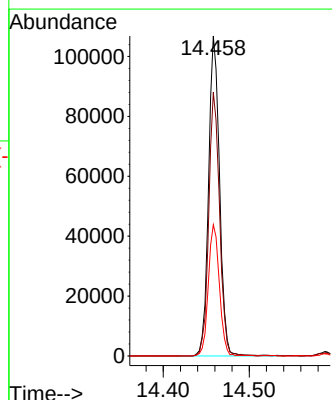
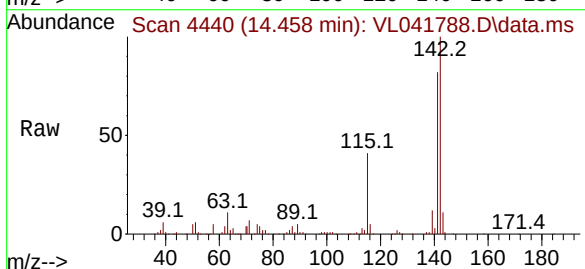
Tgt Ion:142 Resp: 94903

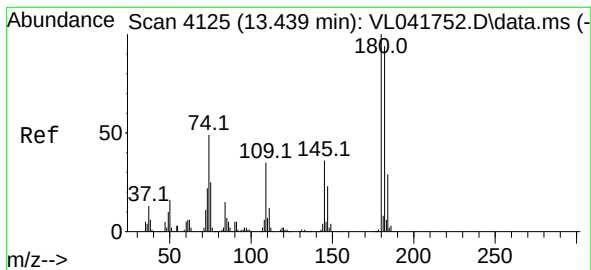
Ion Ratio Lower Upper

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

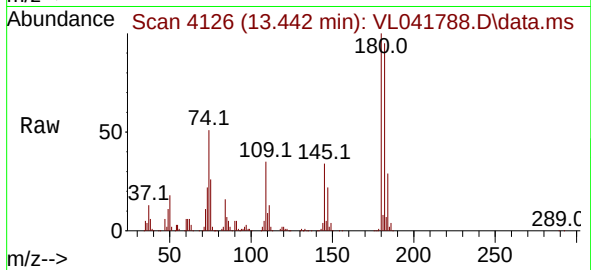
Acq: 18 Dec 2024 10:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



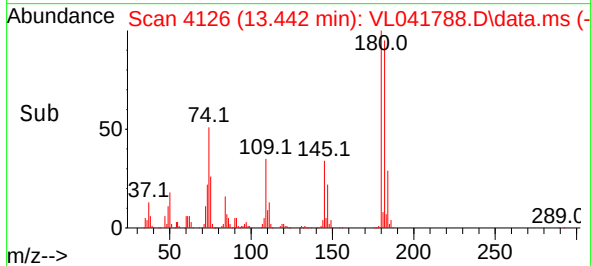
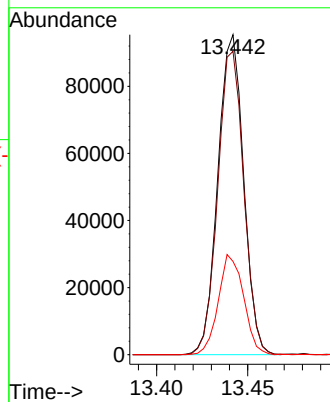
Tgt Ion:180 Resp: 93675

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

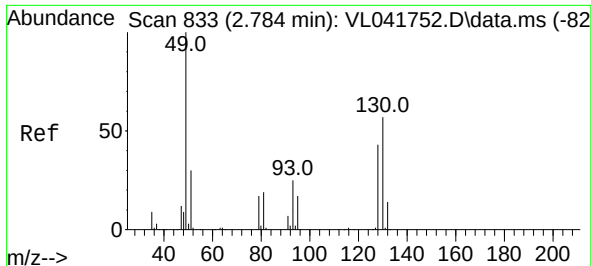
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041795.D
 Acq On : 18 Dec 2024 16:06
 Operator : SY/MD
 Sample : VL1218ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

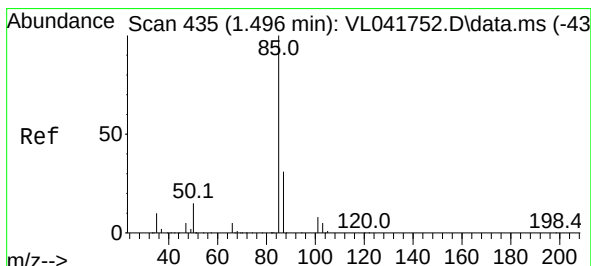
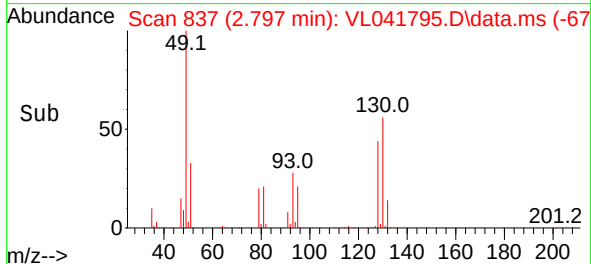
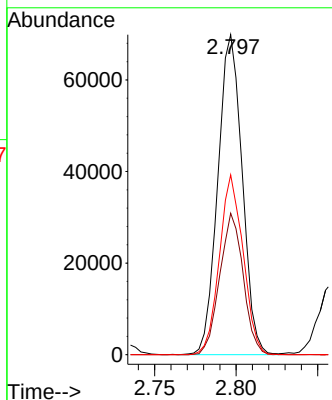
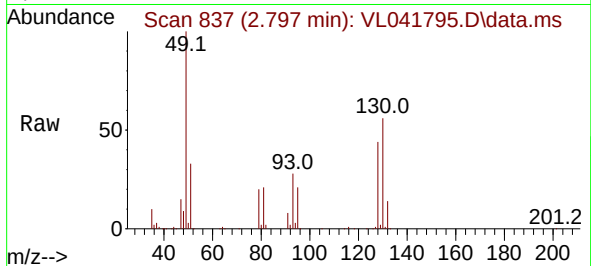
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

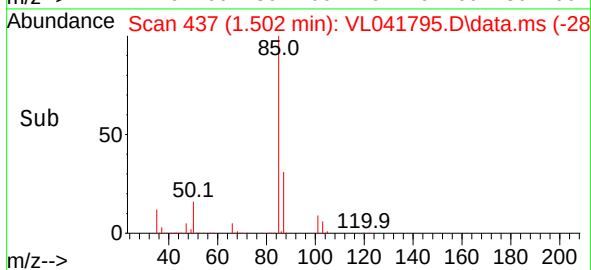
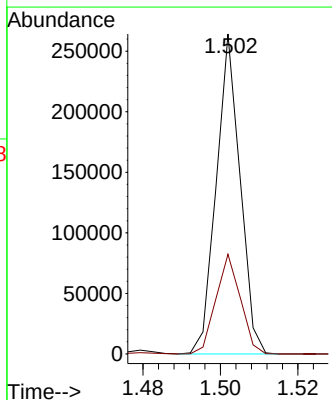
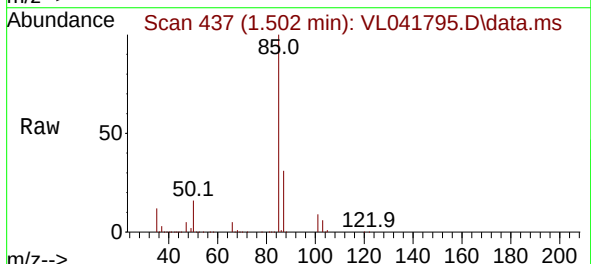
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

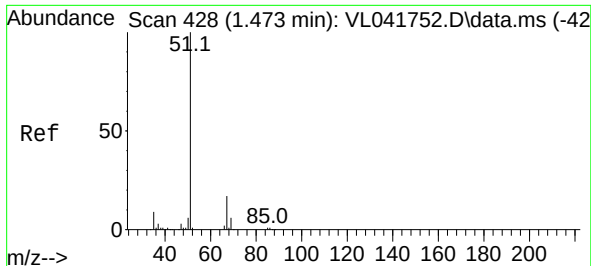
Tgt Ion: 49 Resp: 72600
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.6
130 54.6 28.3 85.0



#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

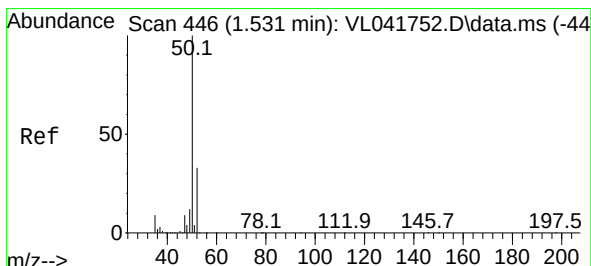
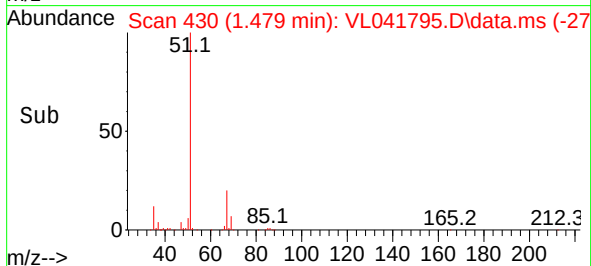
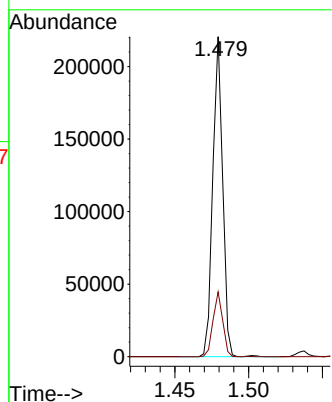
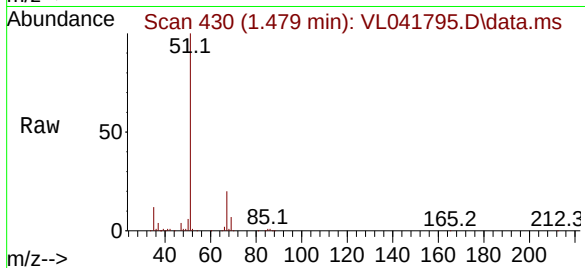




#3
Chlorodifluoromethane
Concen: 8.633 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

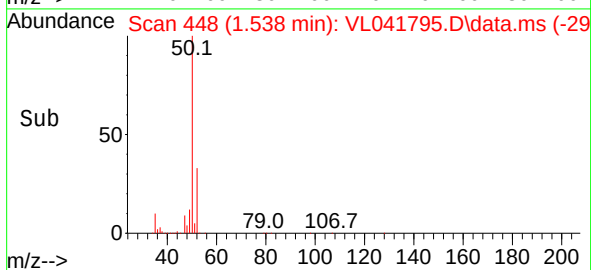
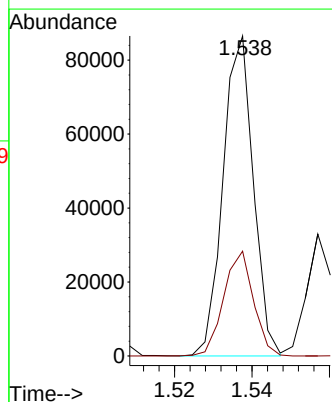
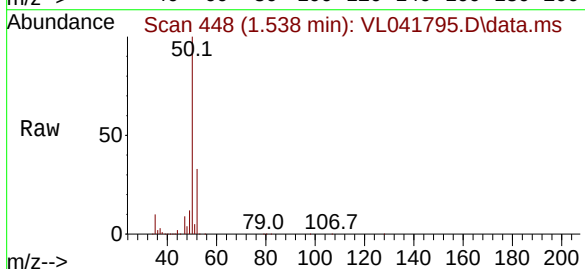
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

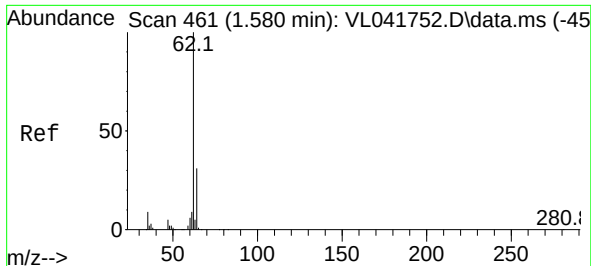
Tgt Ion: 51 Resp: 102210
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.4



#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

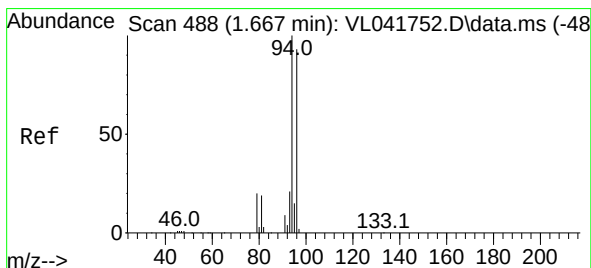
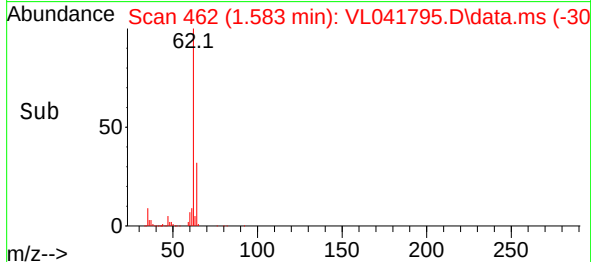
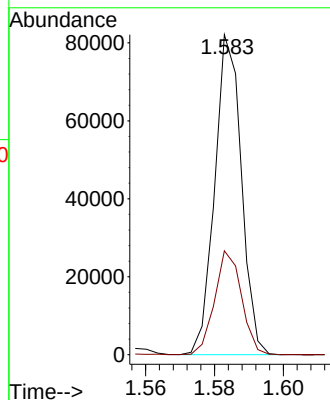
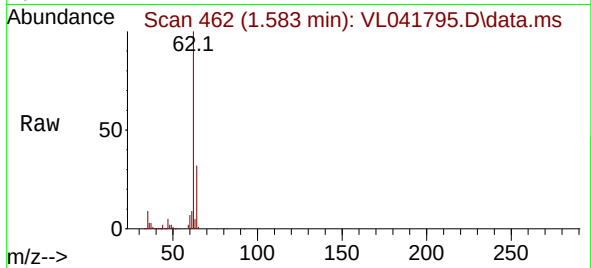




#5
 Vinyl Chloride
 Concen: 8.661 ppbv
 RT: 1.583 min Scan# 410
 Delta R.T. 0.003 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

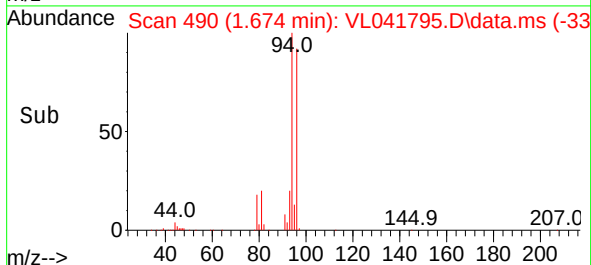
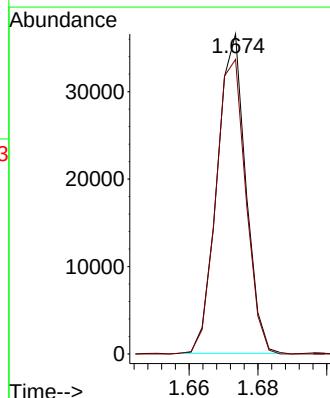
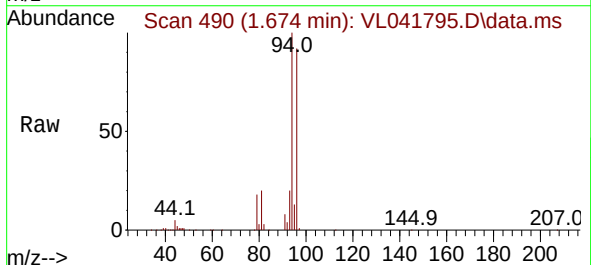
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

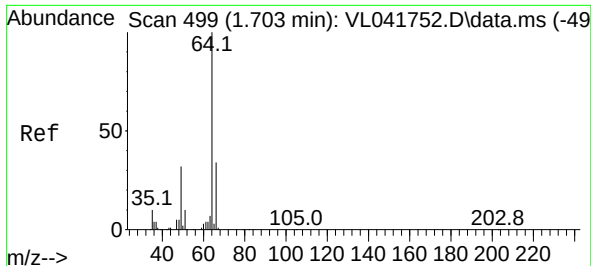
Tgt Ion: 62 Resp: 44104
 Ion Ratio Lower Upper
 62 100
 64 32.5 25.1 37.7



#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

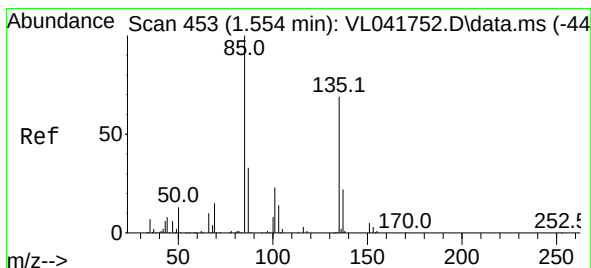
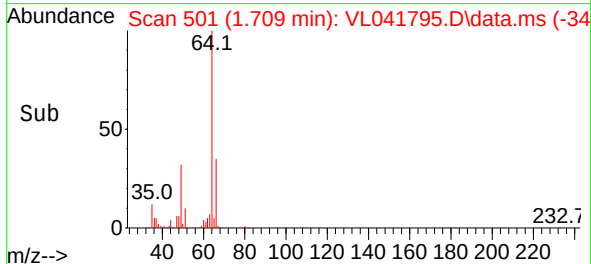
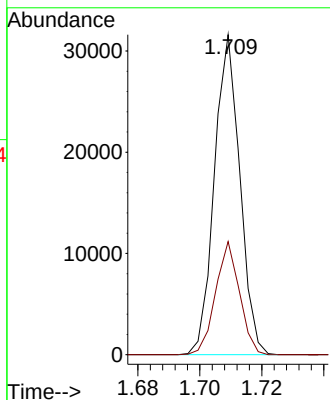
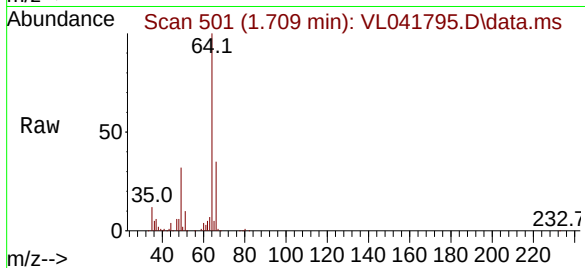




#7
Chloroethane
Concen: 9.123 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

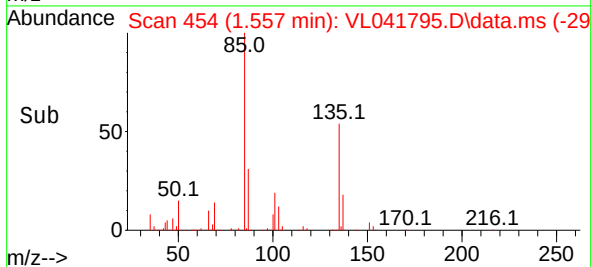
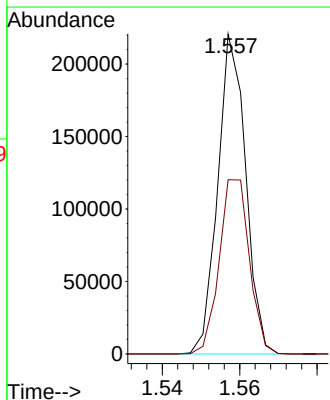
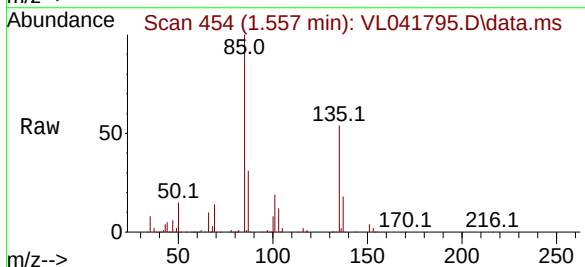
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

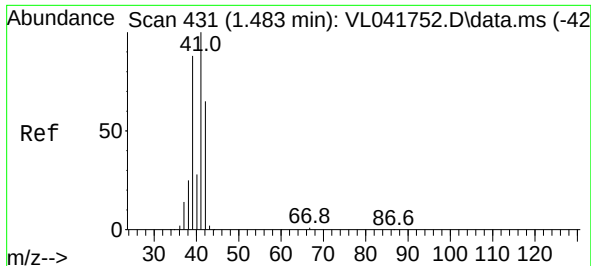
Tgt Ion: 64 Resp: 18047
Ion Ratio Lower Upper
64 100
66 35.4 27.5 41.3



#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 :

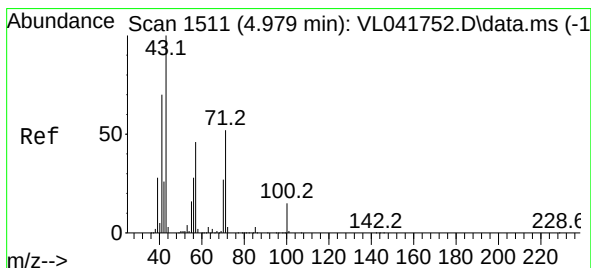
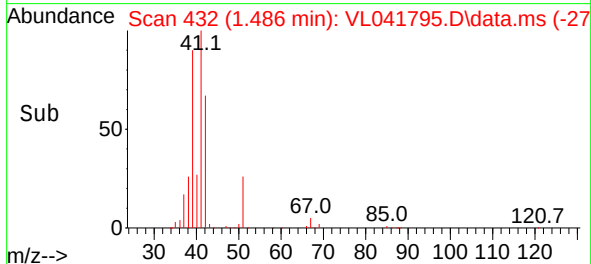
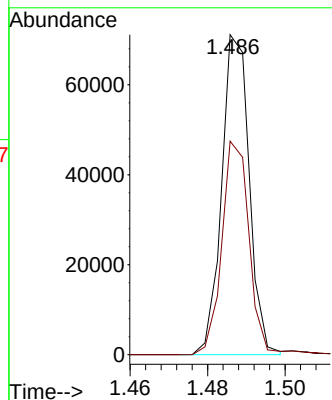
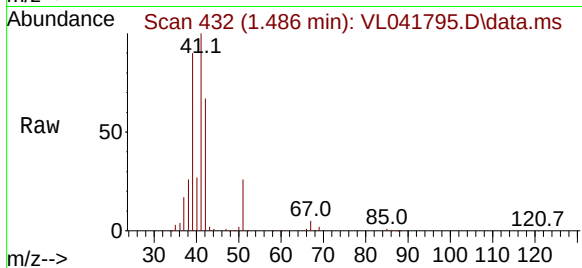
VL1218ABS01

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

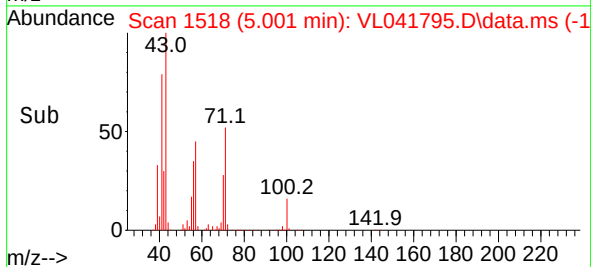
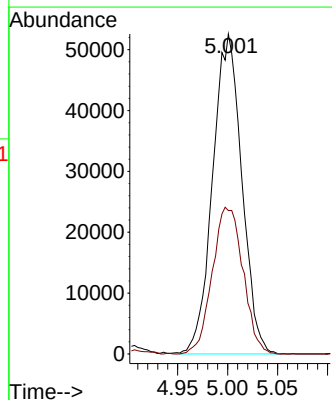
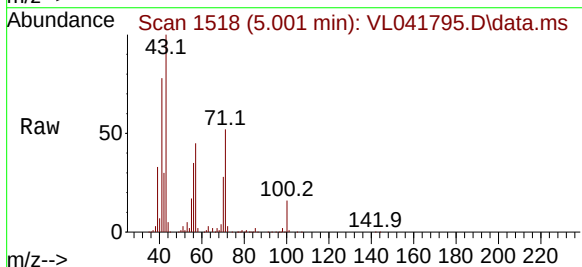
Acq: 18 Dec 2024 16:06

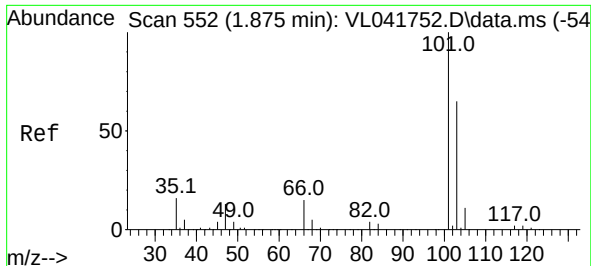
Tgt Ion: 43 Resp: 106572

Ion Ratio Lower Upper

43 100

57 48.3 38.5 57.7

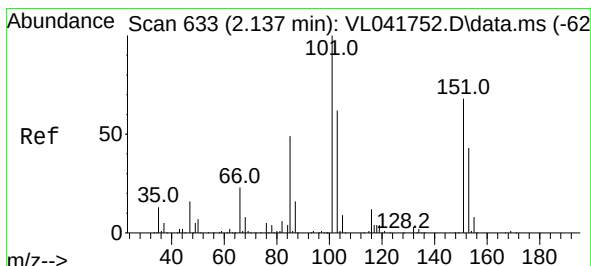
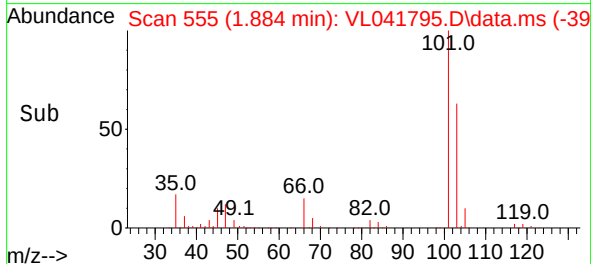
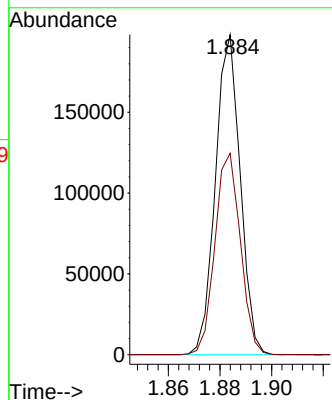
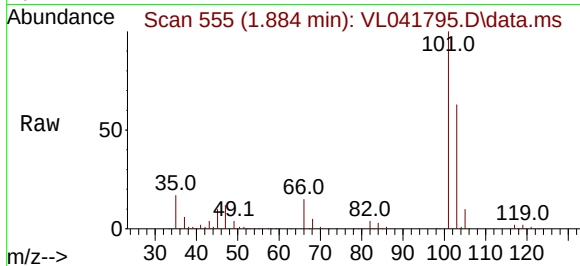




#11
 Trichlorofluoromethane
 Concen: 9.632 ppbv
 RT: 1.884 min Scan# 51
 Delta R.T. 0.009 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

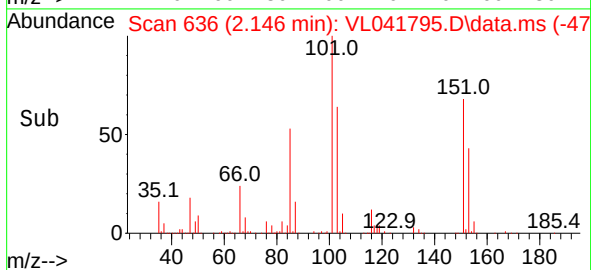
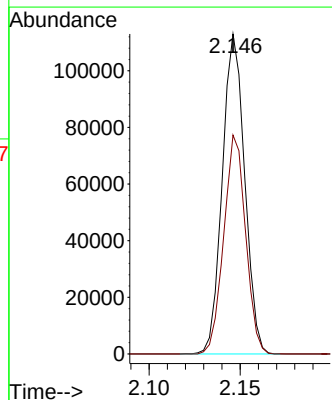
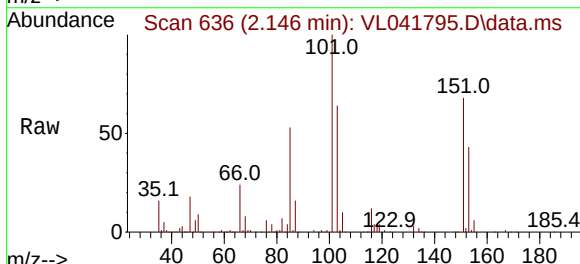
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

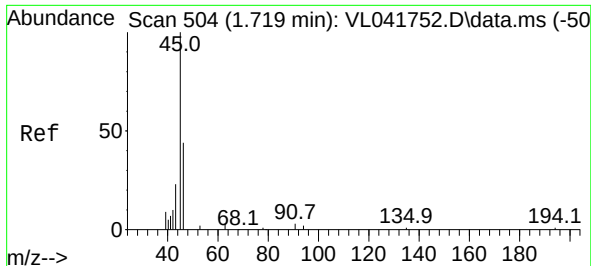
Tgt Ion:101 Resp: 132171
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.8 77.8



#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
 Acq: 18 Dec 2024 16:06

Tgt Ion:101 Resp: 96243
 Ion Ratio Lower Upper
 101 100
 151 66.8 56.8 85.2

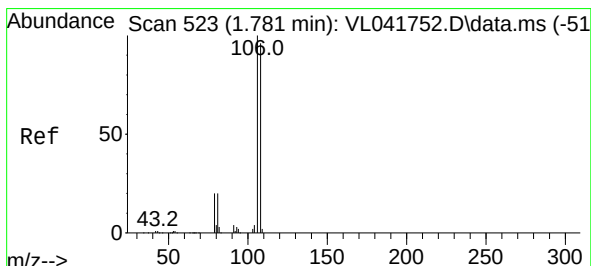
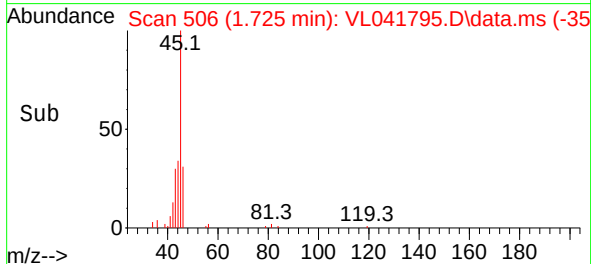
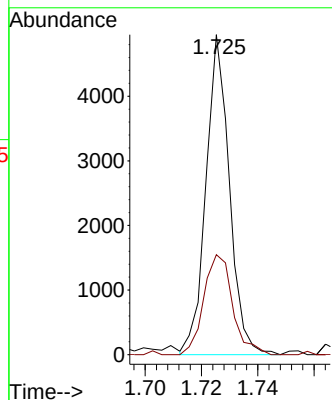
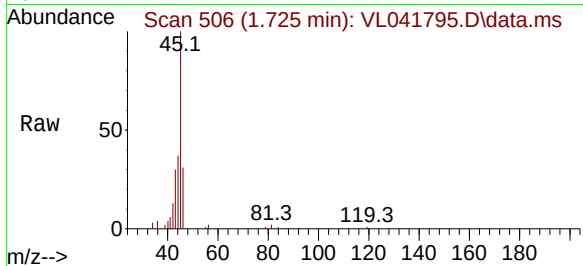




#13
Ethanol
Concen: 6.742 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

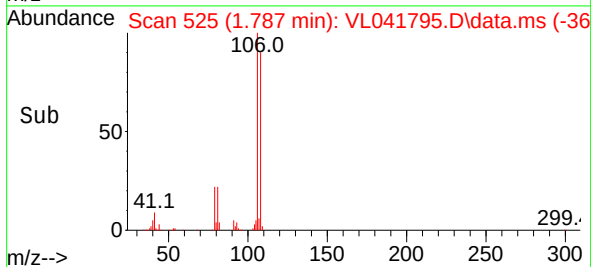
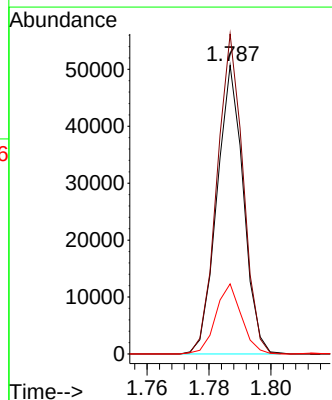
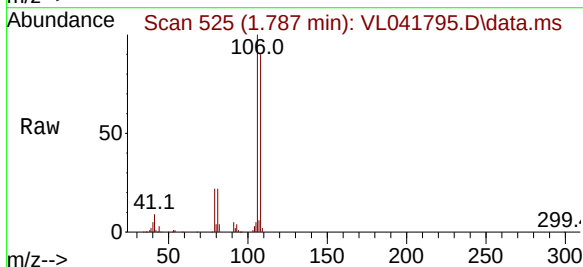
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

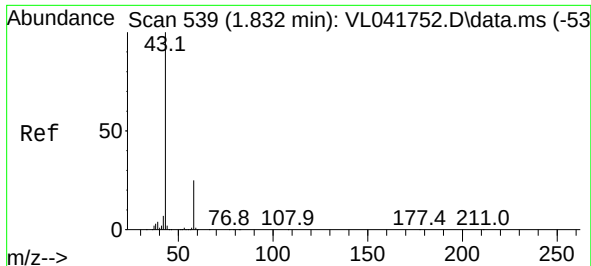
Tgt Ion: 45 Resp: 2865
Ion Ratio Lower Upper
45 100
46 39.7 16.4 65.8



#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

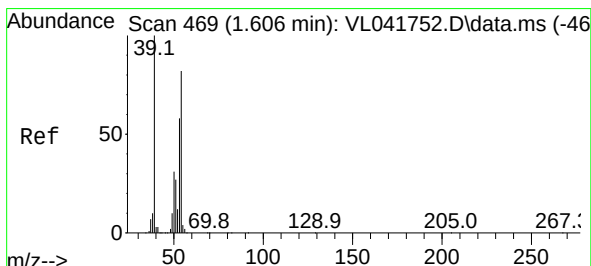
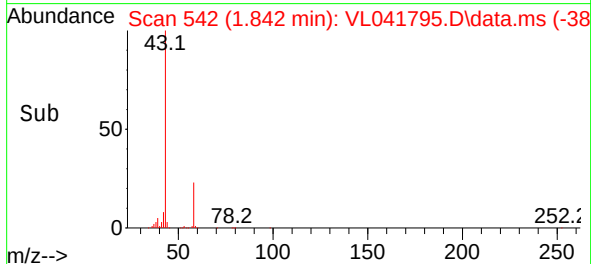
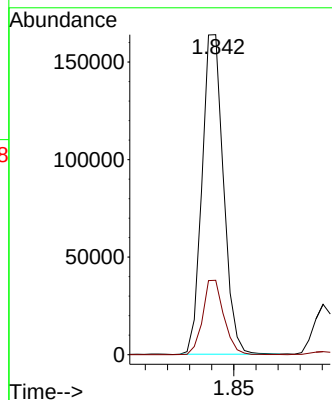
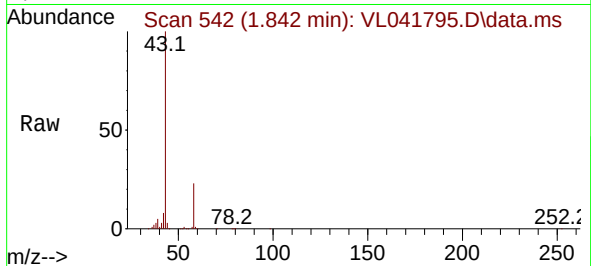




#15
Acetone
Concen: 7.807 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

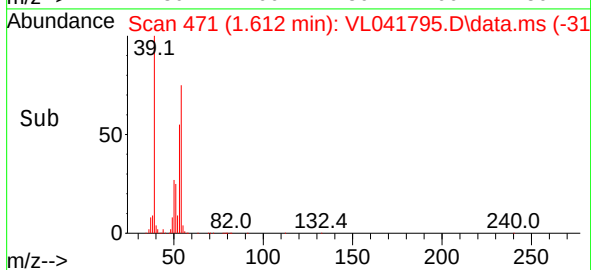
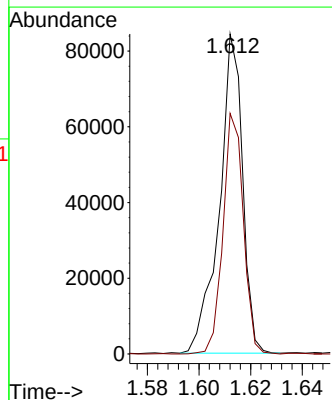
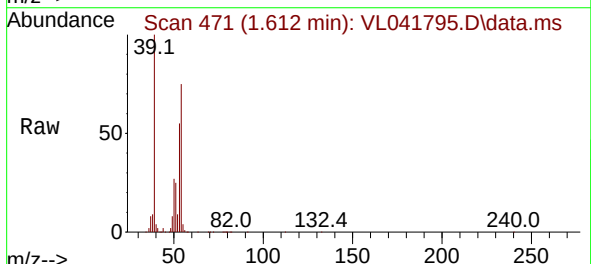
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

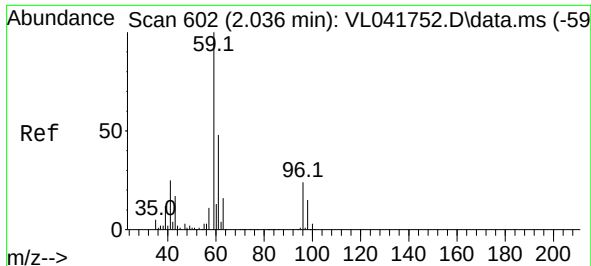
Tgt Ion: 43 Resp: 110277
Ion Ratio Lower Upper
43 100
58 23.0 19.7 29.5



#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

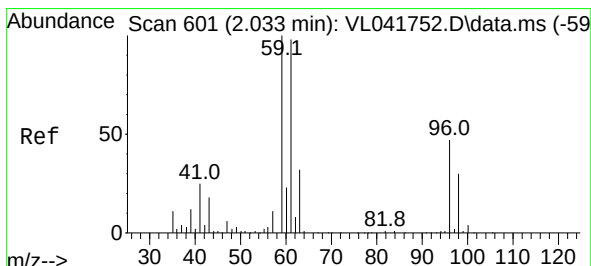
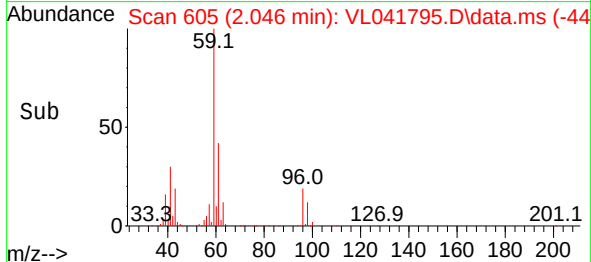
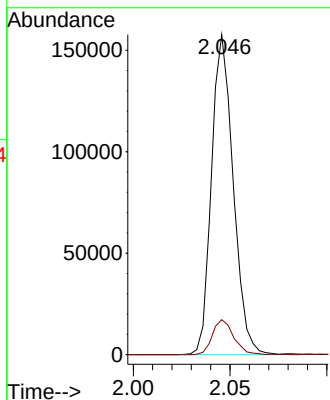
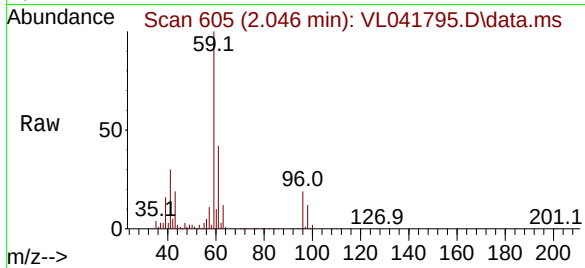




#17
tert-Butyl alcohol
Concen: 8.768 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

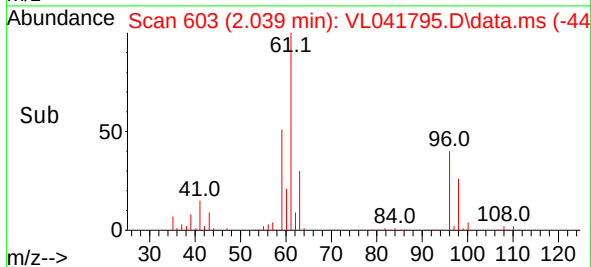
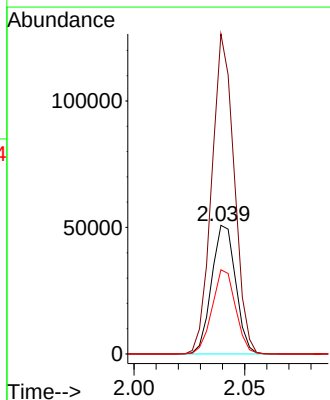
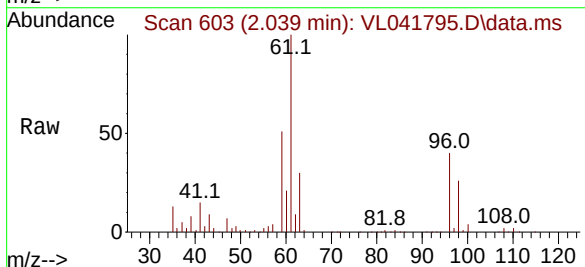
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

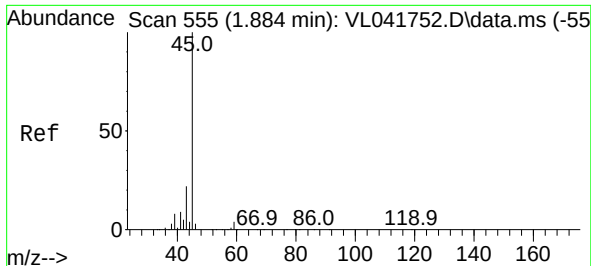
Tgt Ion: 59 Resp: 122872
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0



#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 :

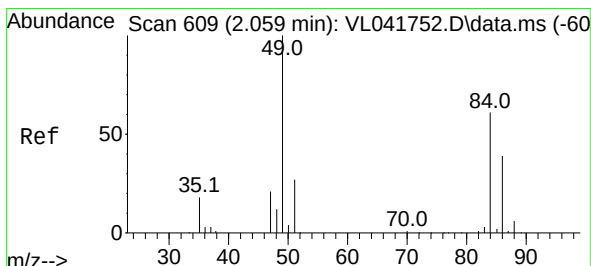
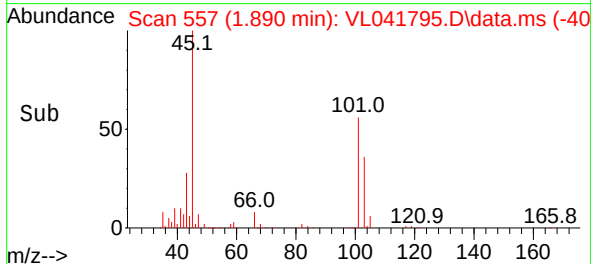
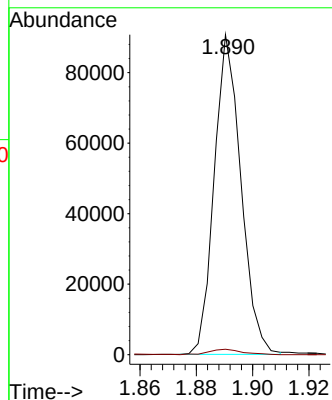
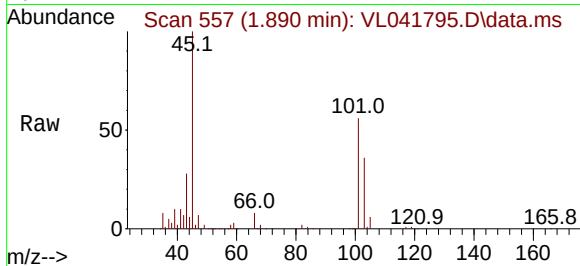
VL1218ABS01

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

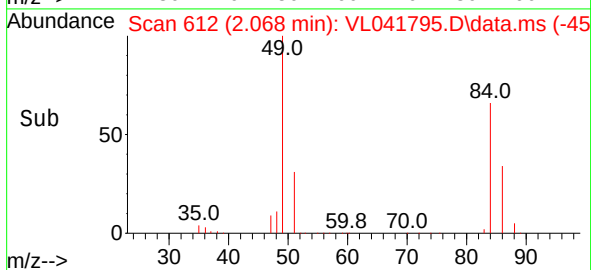
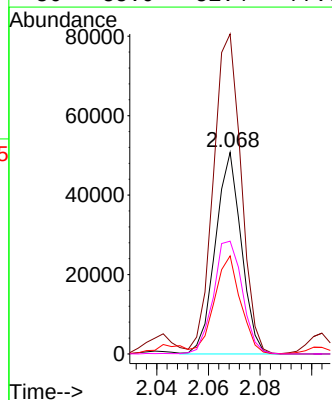
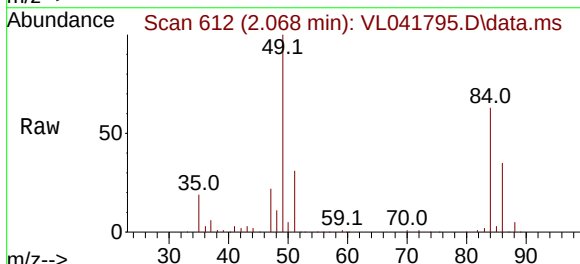
Ion Ratio Lower Upper

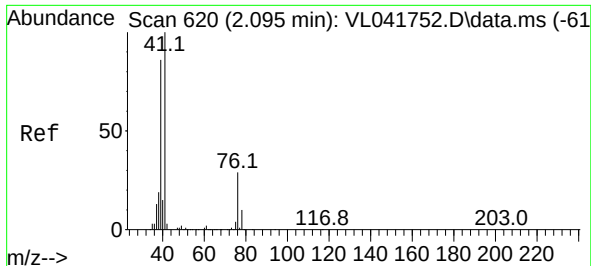
84 100

49 158.5 132.6 198.8

51 48.4 37.6 56.4

86 55.9 51.4 77.0

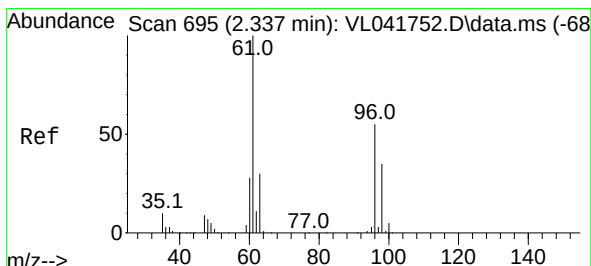
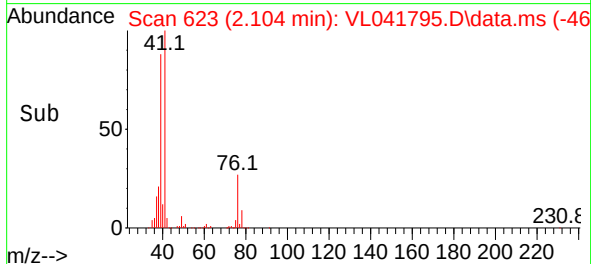
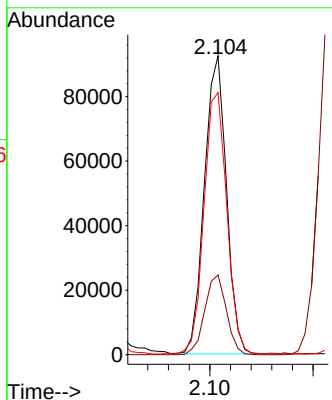
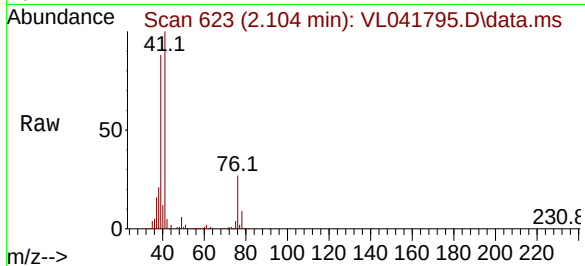




#21
 Allyl Chloride
 Concen: 8.945 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.009 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

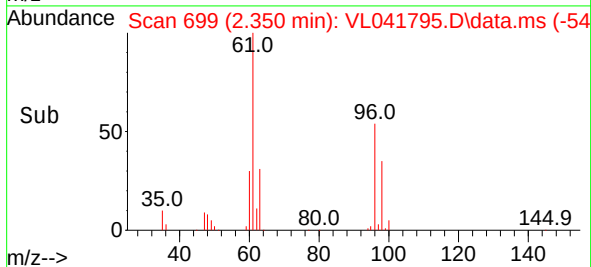
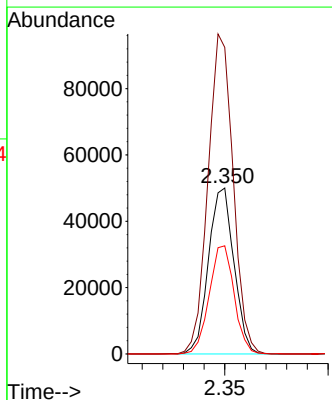
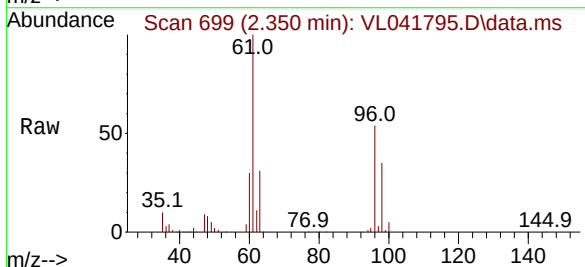
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1218ABS01

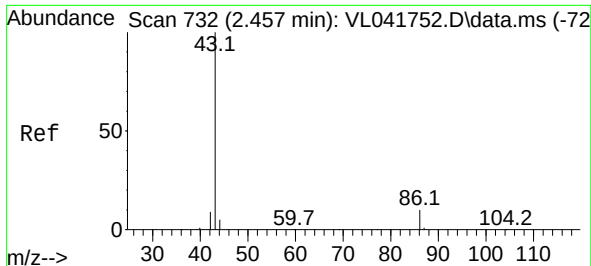
Tgt Ion: 41 Resp: 68525
 Ion Ratio Lower Upper
 41 100
 76 26.2 22.3 33.5
 39 91.2 69.2 103.8



#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

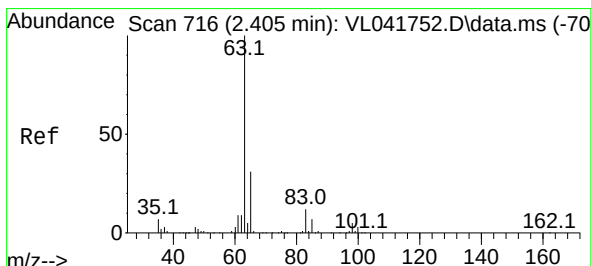
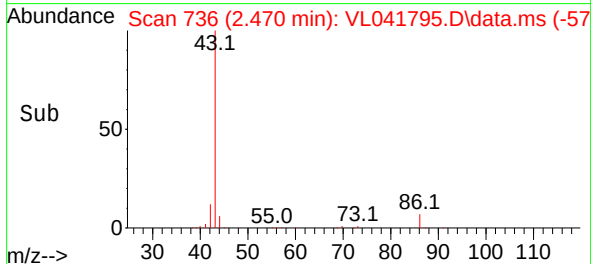
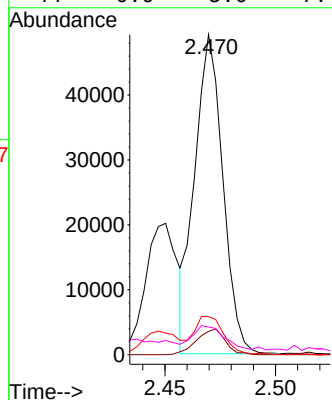
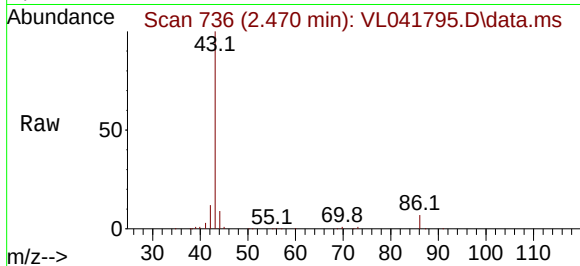




#23
 Vinyl Acetate
 Concen: 6.627 ppbv
 RT: 2.470 min Scan# 741
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

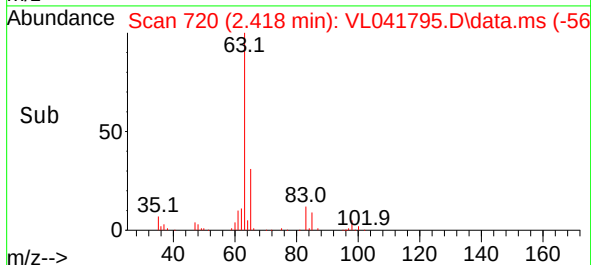
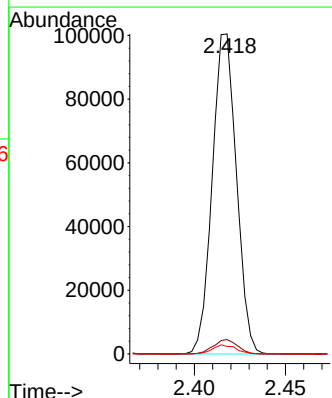
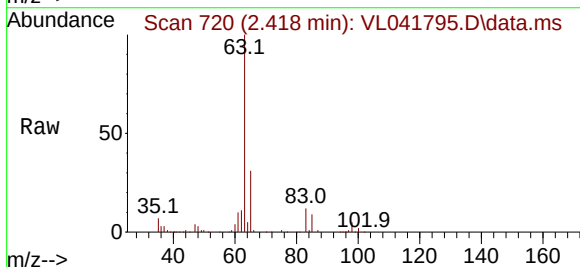
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

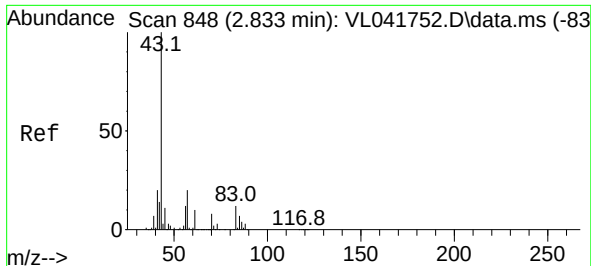
Tgt Ion:	43	Resp:	43463
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.6	10.0
42	11.5	8.2	12.2
44	6.9	5.0	7.4



#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

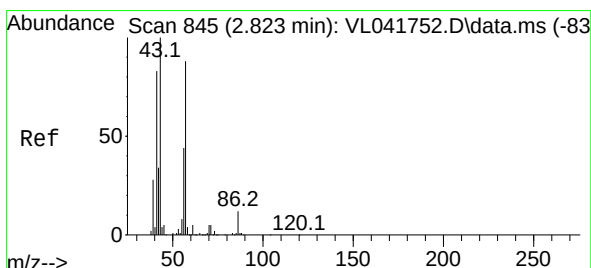
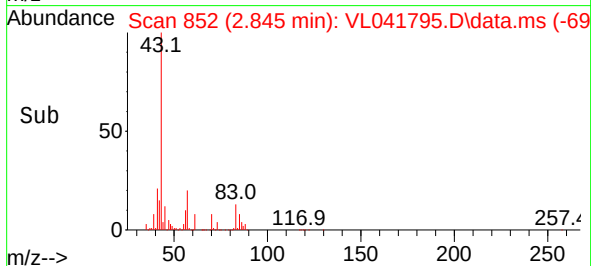
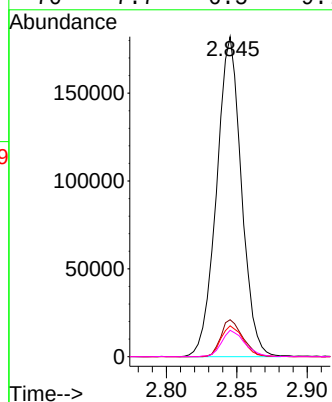
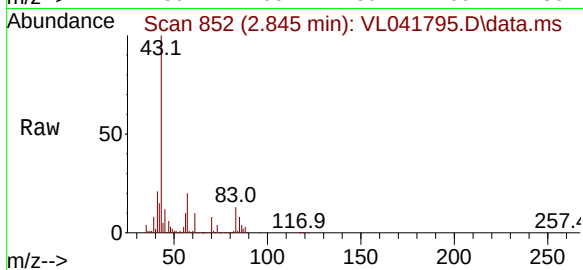
Ion Ratio Lower Upper

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

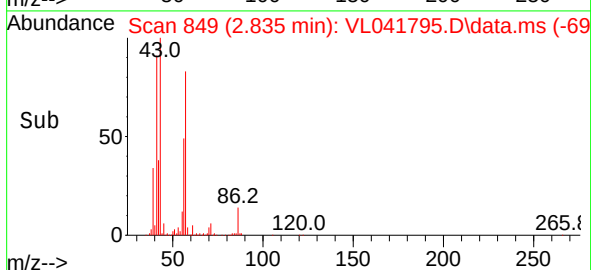
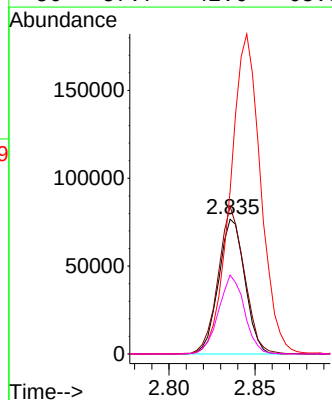
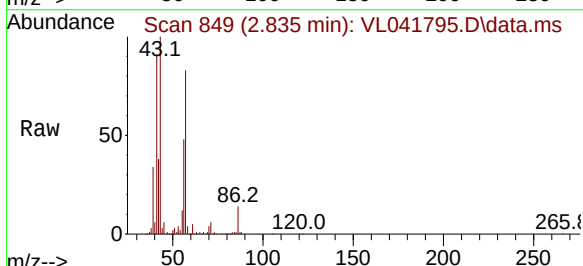
Ion Ratio Lower Upper

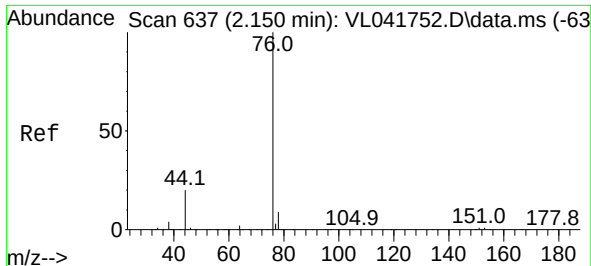
57 100

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

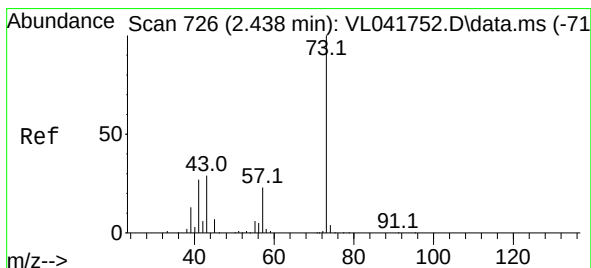
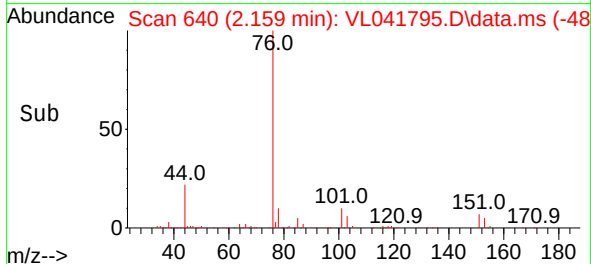
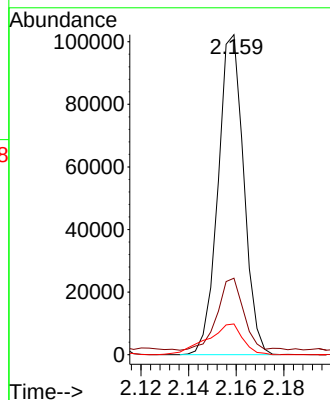
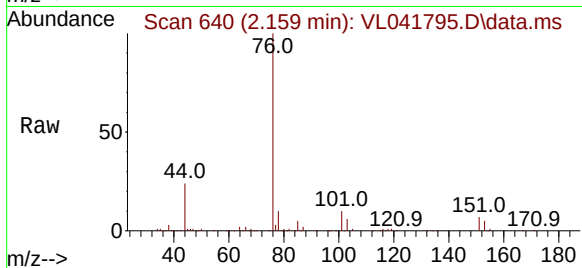
Tgt Ion: 76 Resp: 76433

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

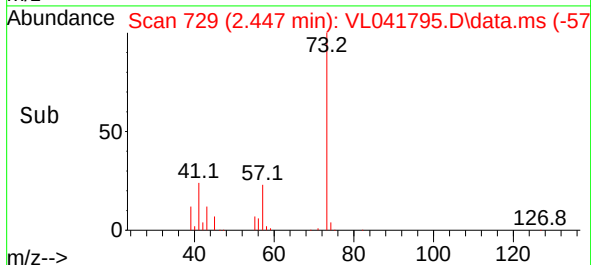
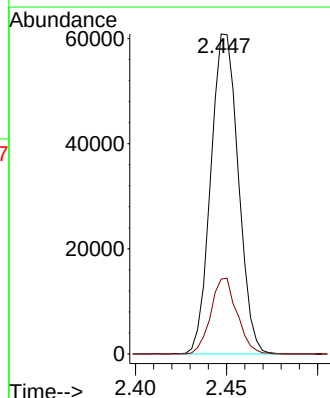
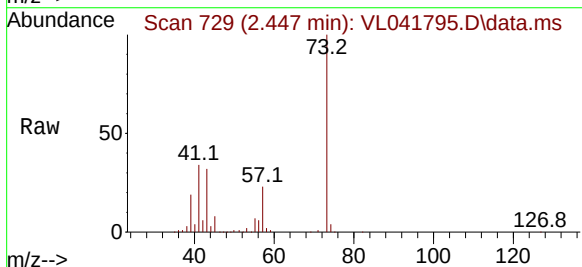
Acq: 18 Dec 2024 16:06

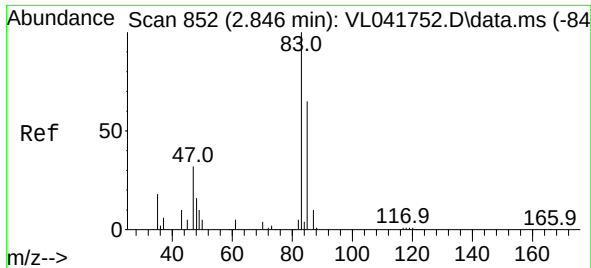
Tgt Ion: 73 Resp: 64037

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 :

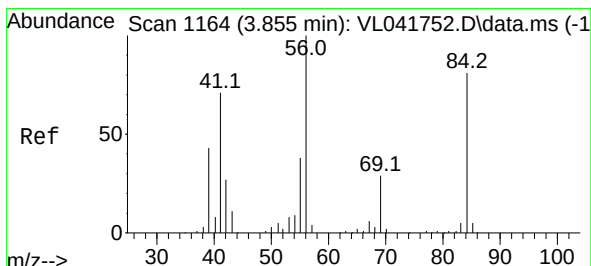
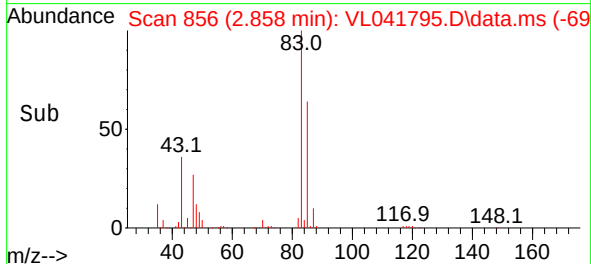
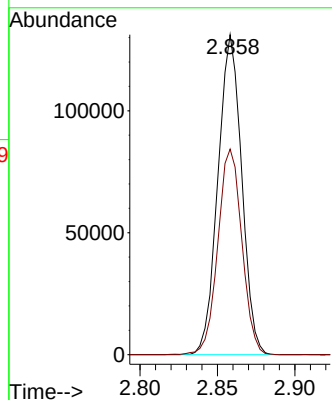
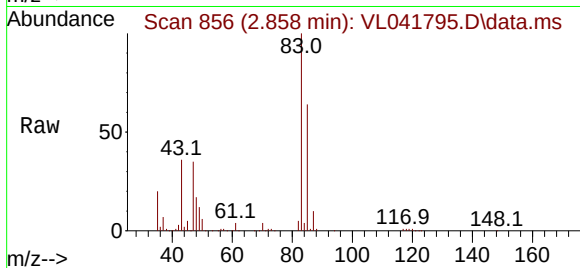
VL1218ABS01

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

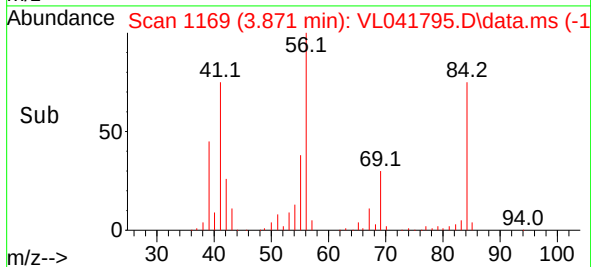
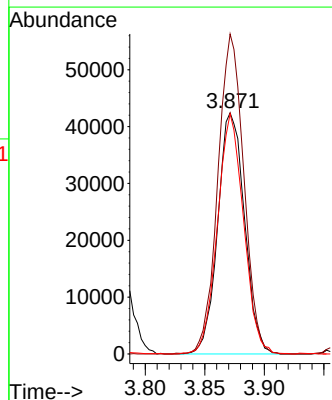
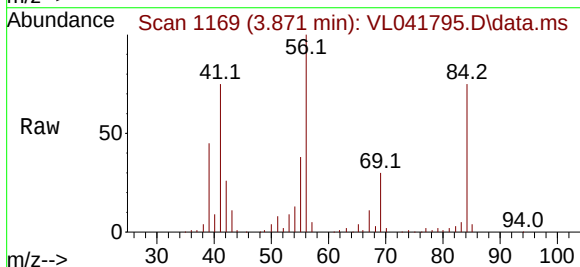
Tgt Ion: 84 Resp: 66237

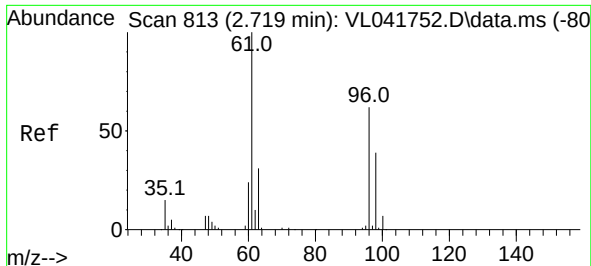
Ion Ratio Lower Upper

84 100

56 128.6 102.3 153.5

41 97.1 74.0 111.0

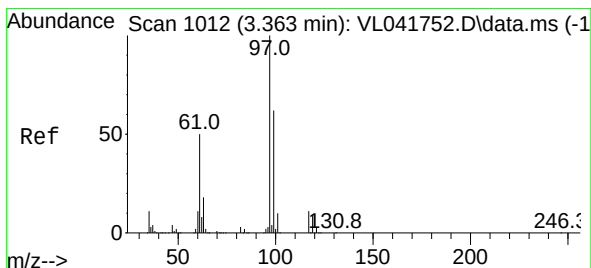
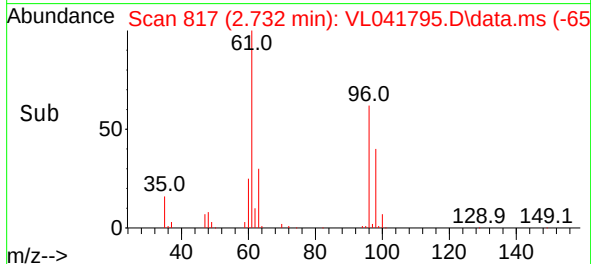
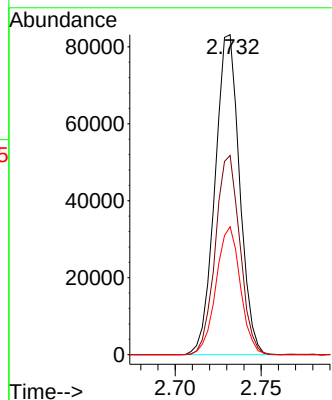
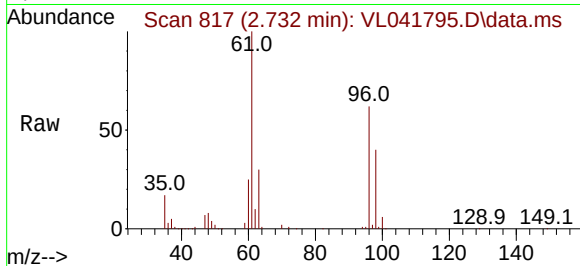




#31
 cis-1,2-Dichloroethene
 Concen: 8.033 ppbv
 RT: 2.732 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

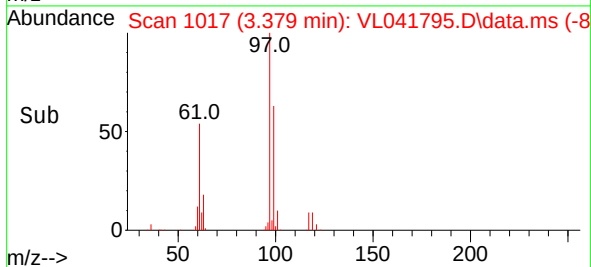
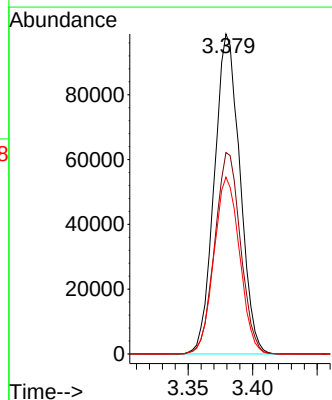
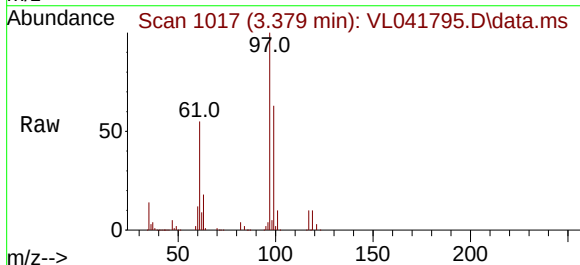
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

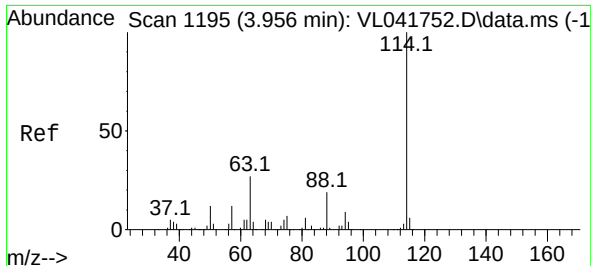
Tgt Ion: 61 Resp: 82779
 Ion Ratio Lower Upper
 61 100
 96 62.2 49.7 74.5
 98 40.0 30.8 46.2



#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# 1195

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

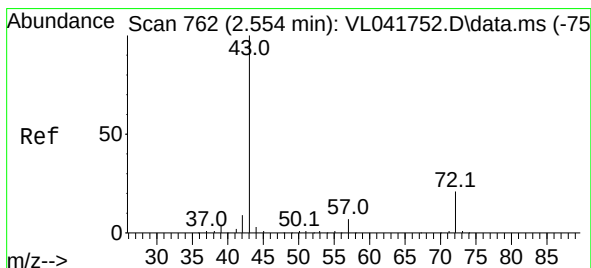
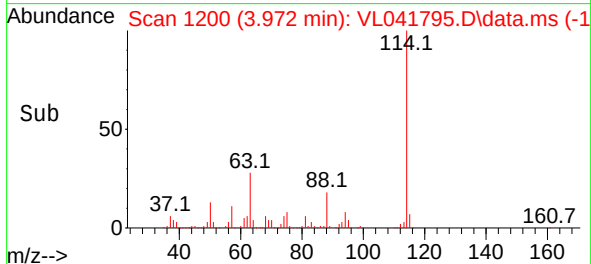
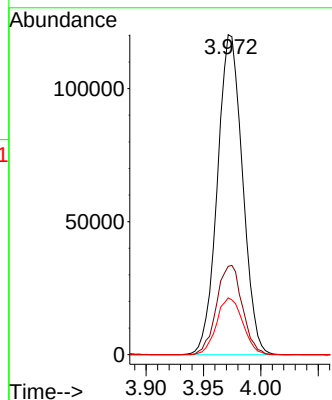
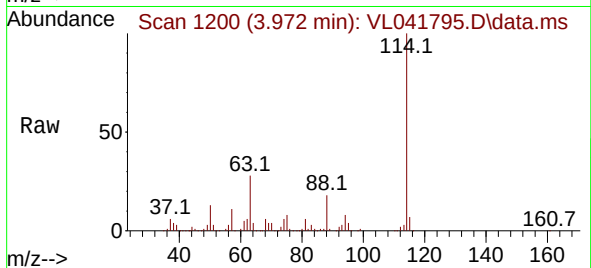
Tgt Ion:114 Resp: 183255

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

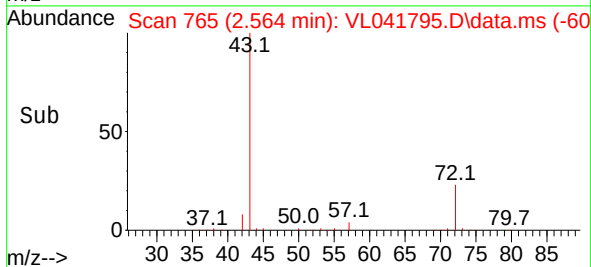
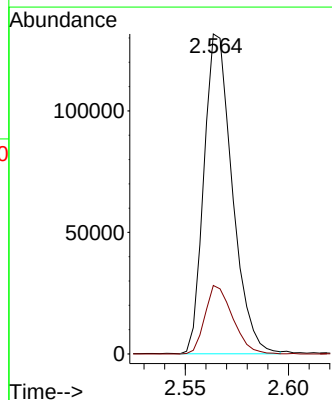
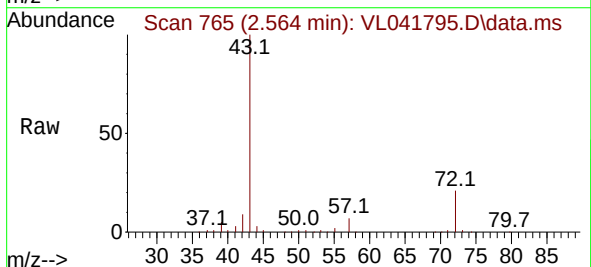
Acq: 18 Dec 2024 16:06

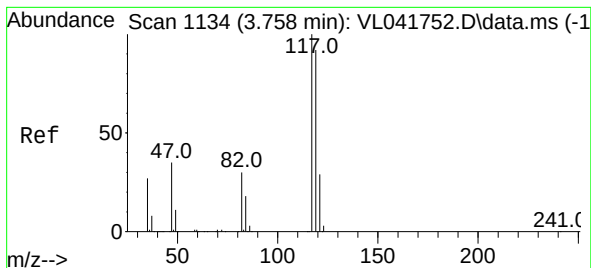
Tgt Ion: 43 Resp: 125687

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_L

ClientSampleId :

VL1218ABS01

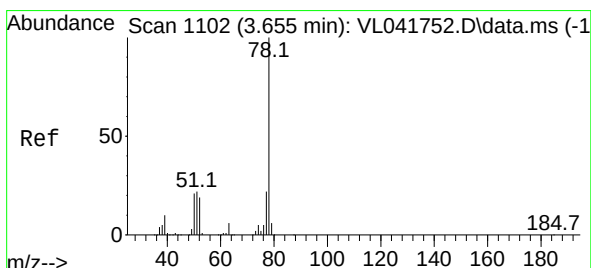
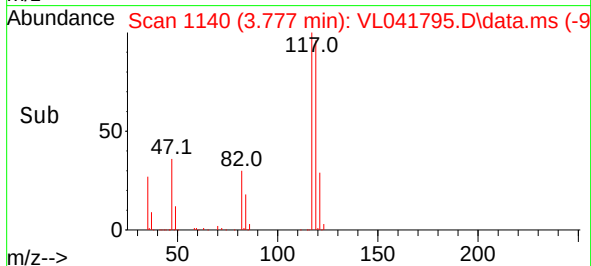
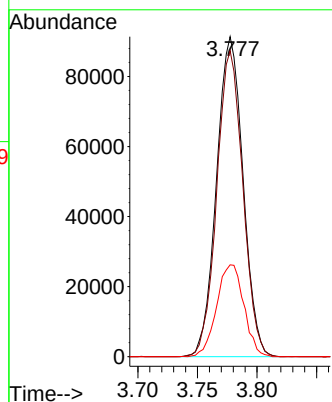
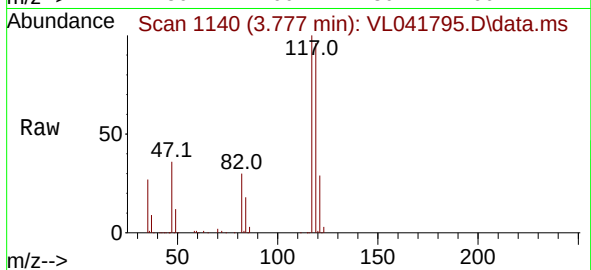
Tgt Ion:117 Resp: 141202

Ion Ratio Lower Upper

117 100

119 95.6 73.7 110.5

121 28.7 23.0 34.4



#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

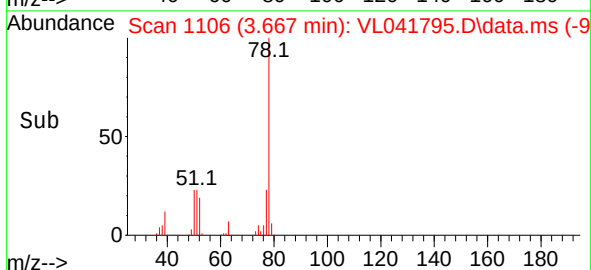
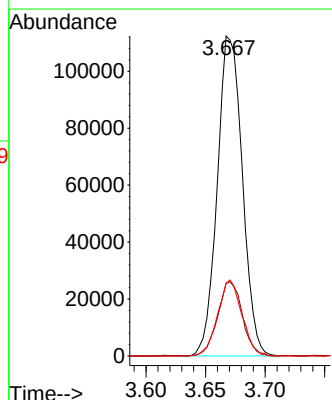
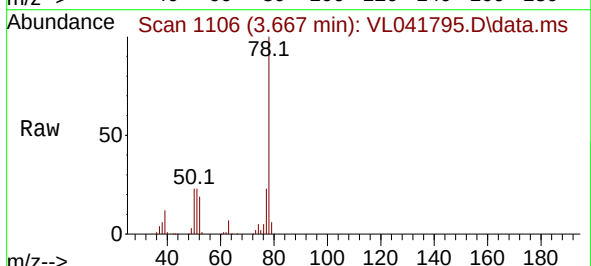
Tgt Ion: 78 Resp: 164423

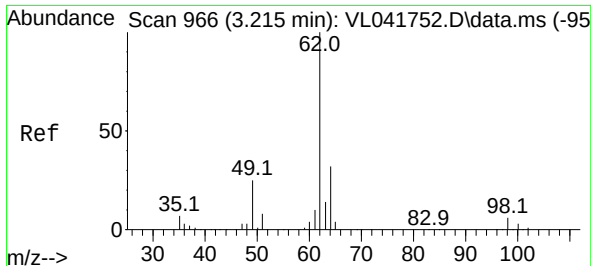
Ion Ratio Lower Upper

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# 9

Delta R.T. 0.016 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

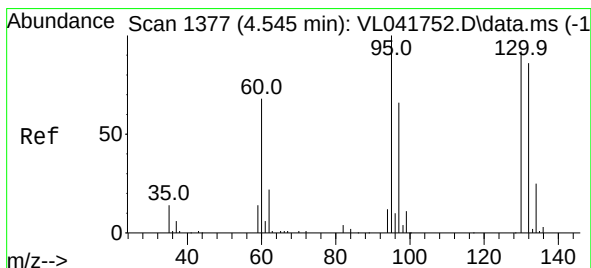
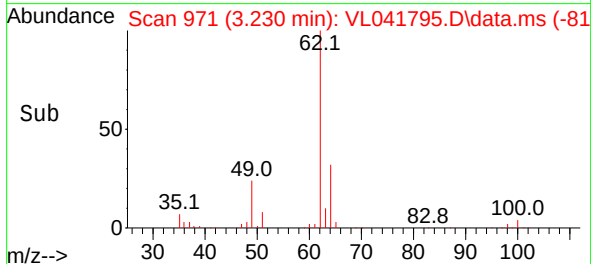
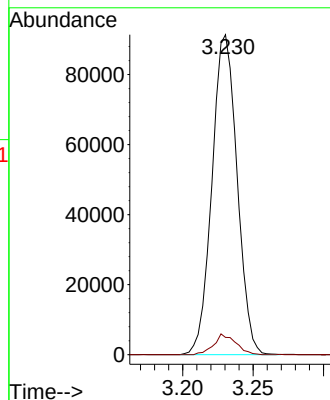
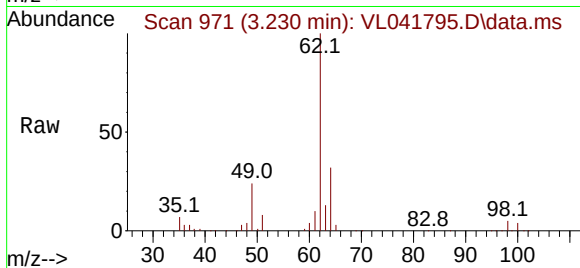
VL1218ABS01

Tgt Ion: 62 Resp: 113600

Ion Ratio Lower Upper

62 100

98 5.7 4.7 7.1



#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

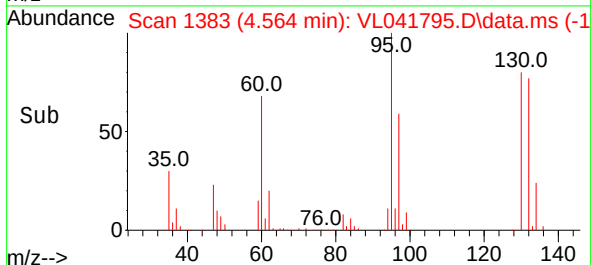
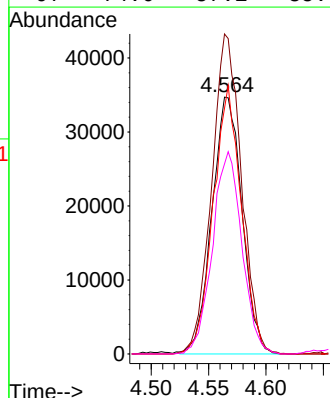
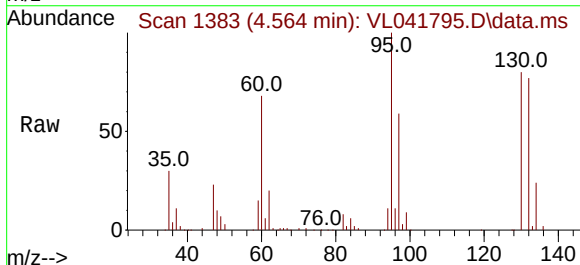
Ion Ratio Lower Upper

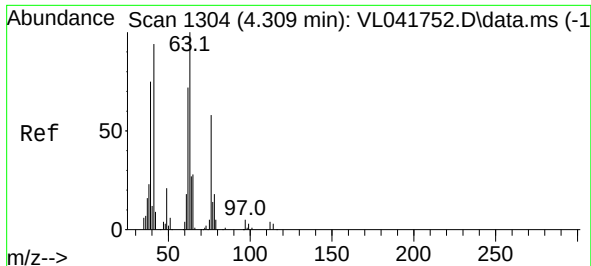
130 100

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

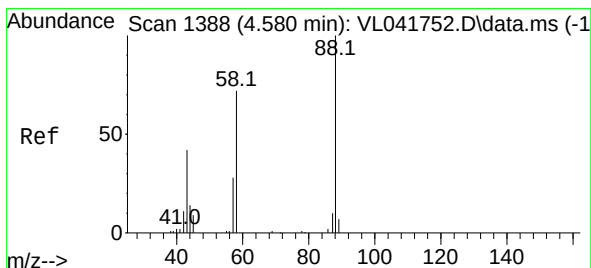
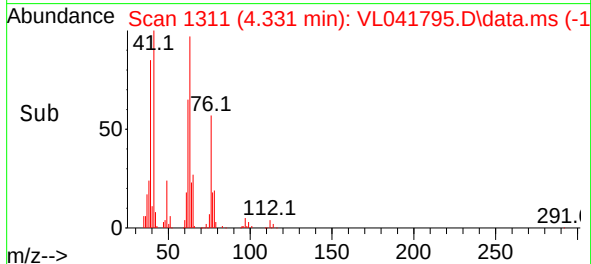
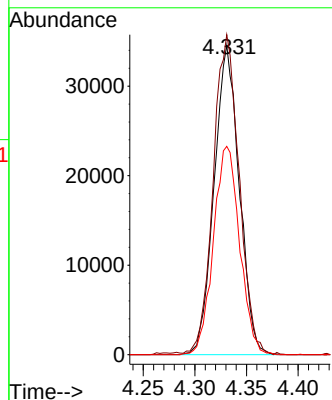
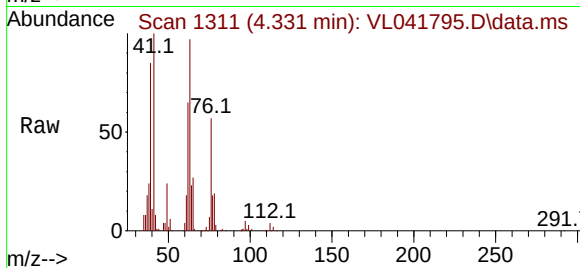
Tgt Ion: 63 Resp: 58553

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

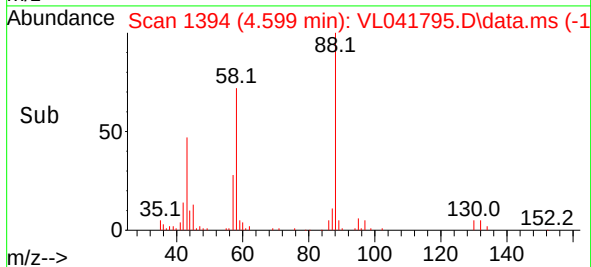
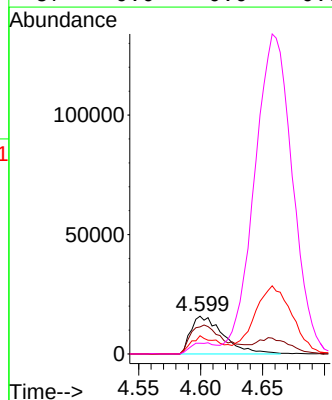
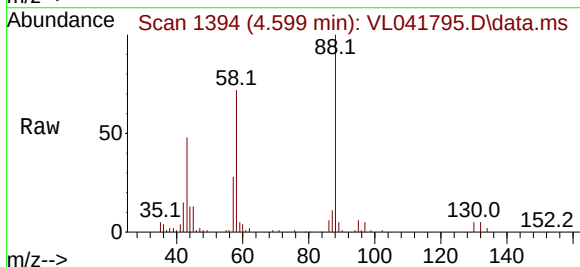
Ion Ratio Lower Upper

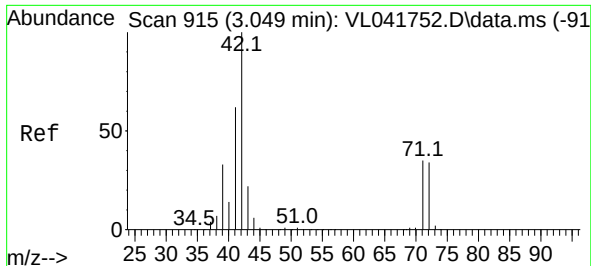
88 100

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

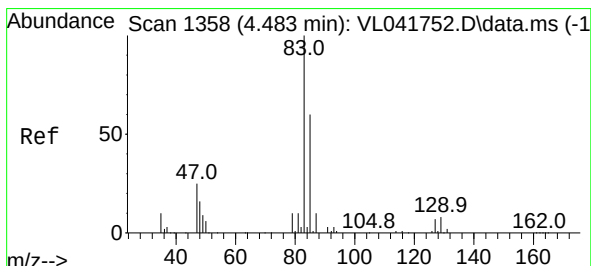
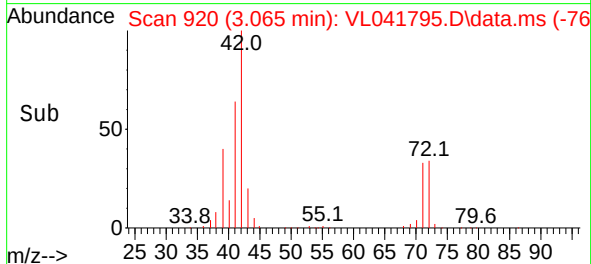
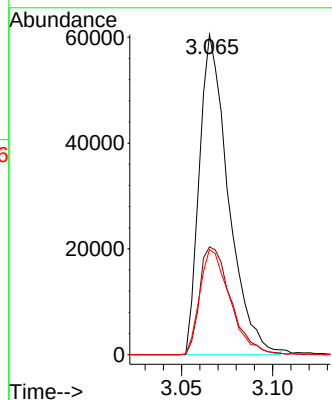
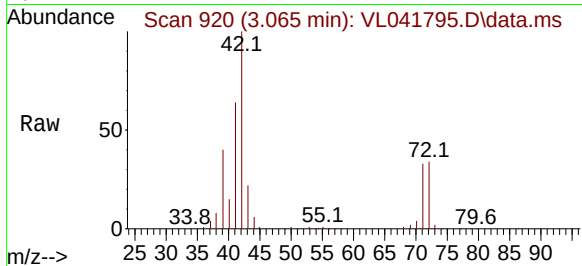
Tgt Ion: 42 Resp: 67017

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

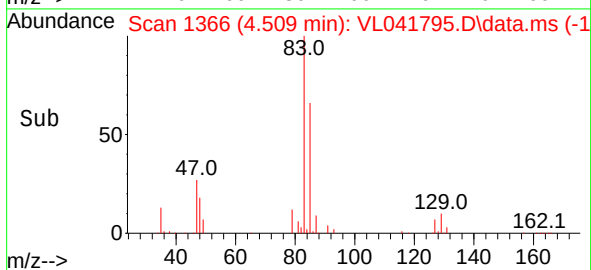
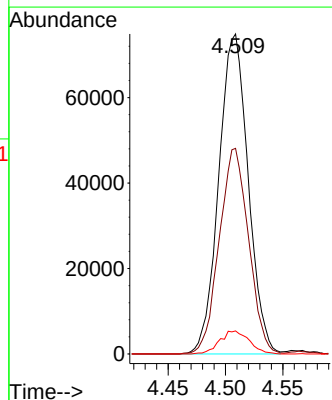
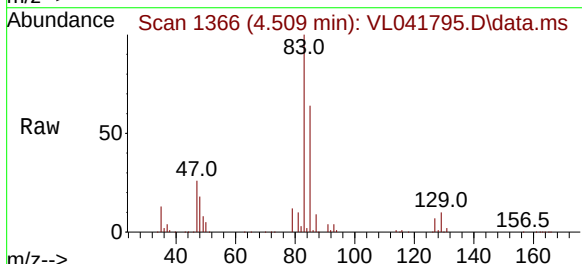
Tgt Ion: 83 Resp: 133513

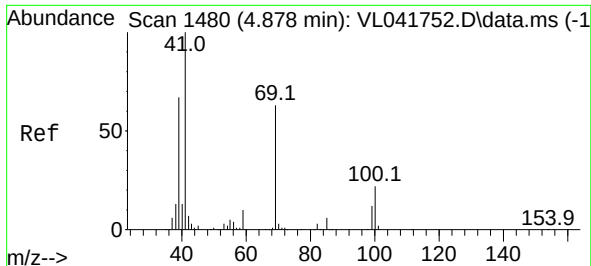
Ion Ratio Lower Upper

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

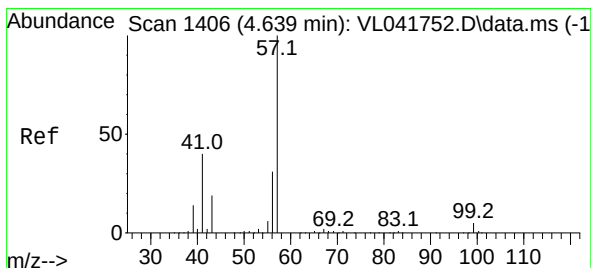
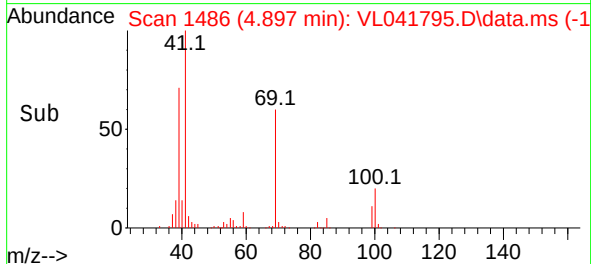
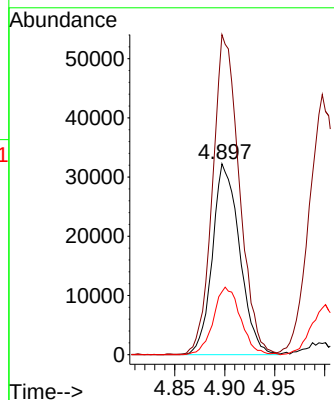
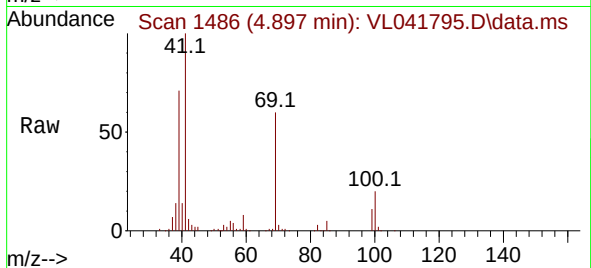
Tgt Ion: 69 Resp: 61014

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

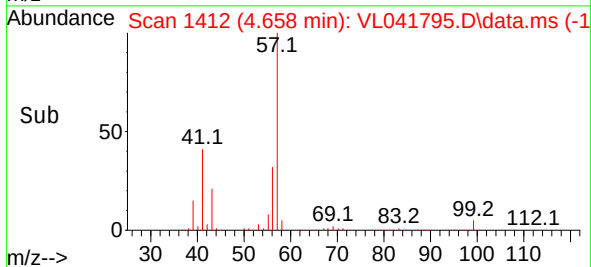
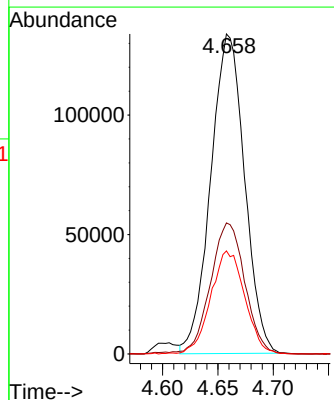
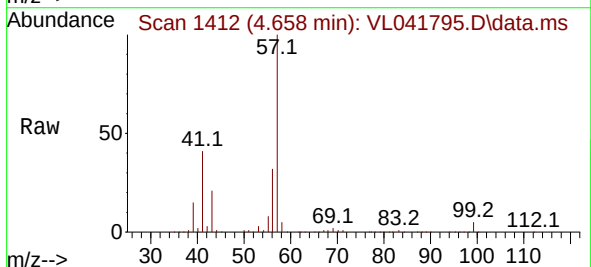
Tgt Ion: 57 Resp: 284140

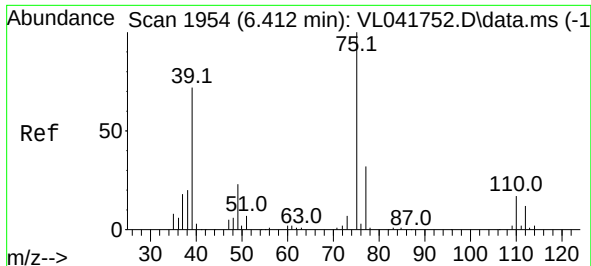
Ion Ratio Lower Upper

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# 11

Delta R.T. 0.026 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

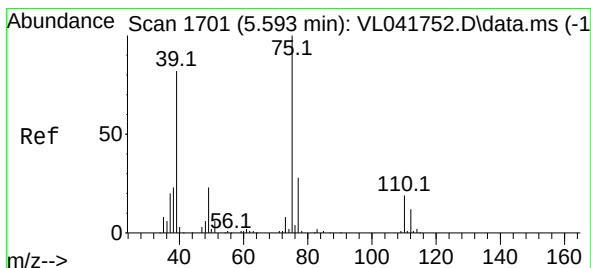
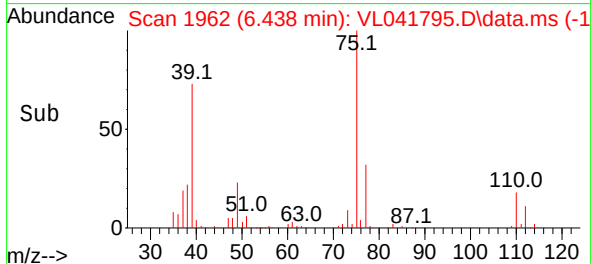
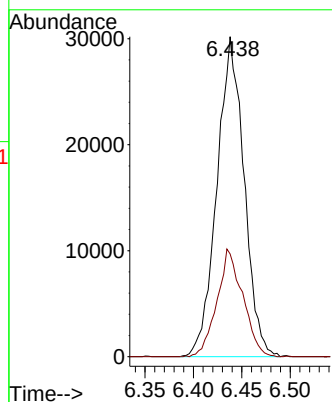
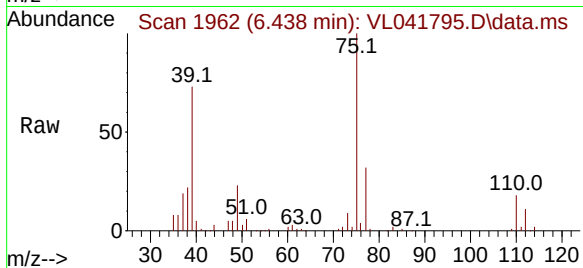
VL1218ABS01

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

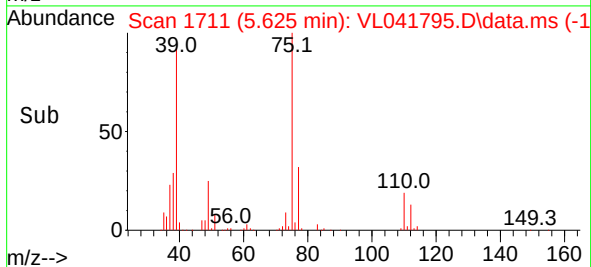
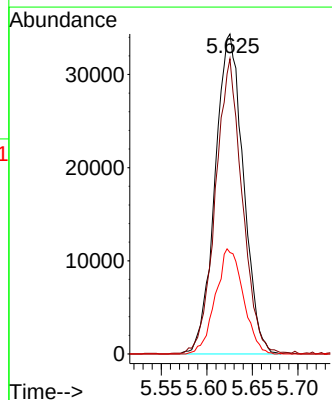
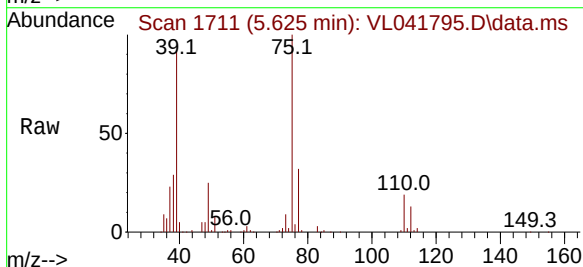
Tgt Ion: 75 Resp: 74198

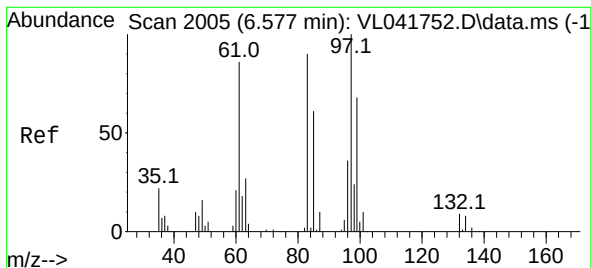
Ion Ratio Lower Upper

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

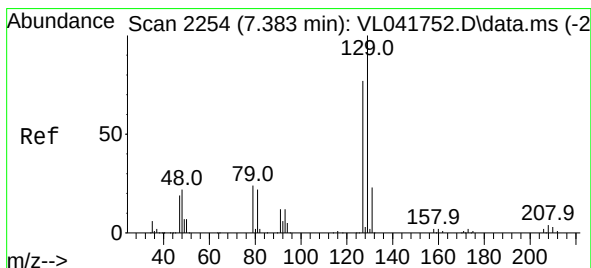
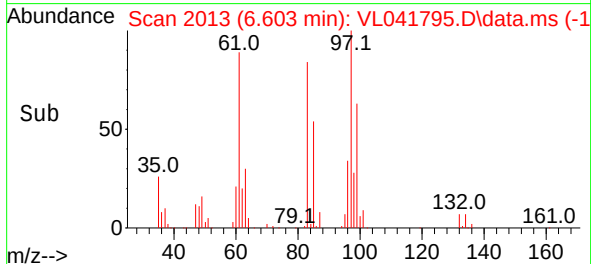
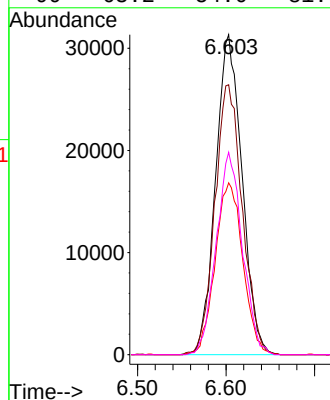
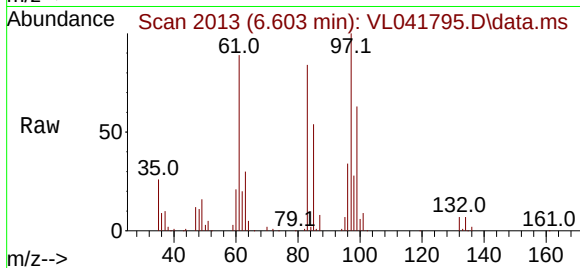
Ion Ratio Lower Upper

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

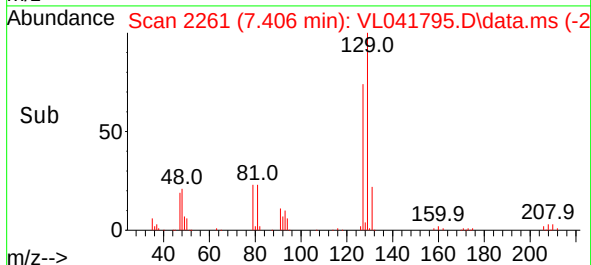
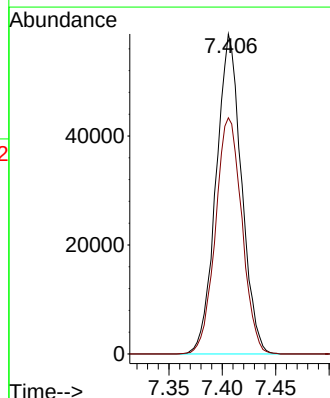
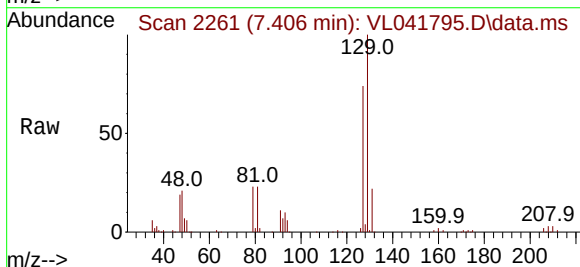
Acq: 18 Dec 2024 16:06

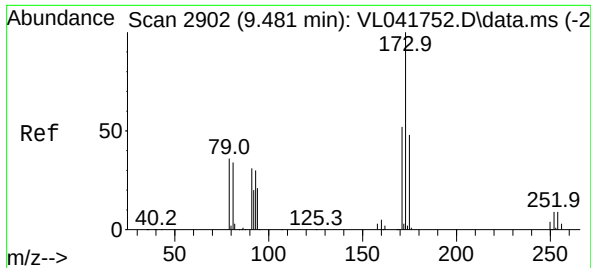
Tgt Ion: 129 Resp: 96996

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

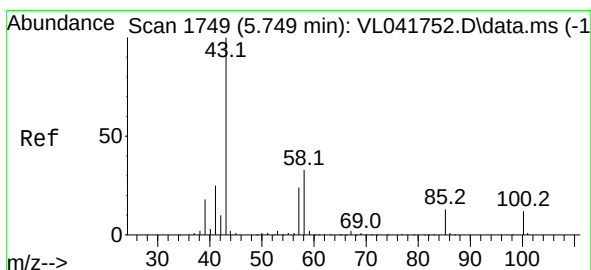
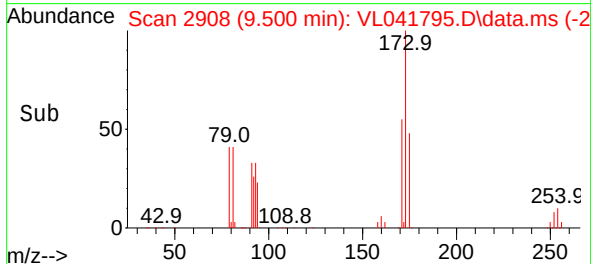
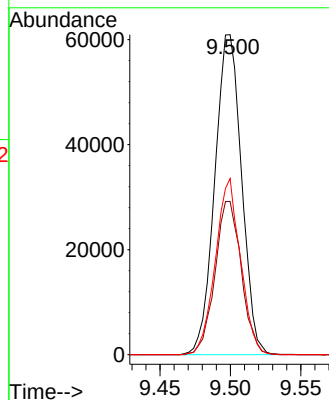
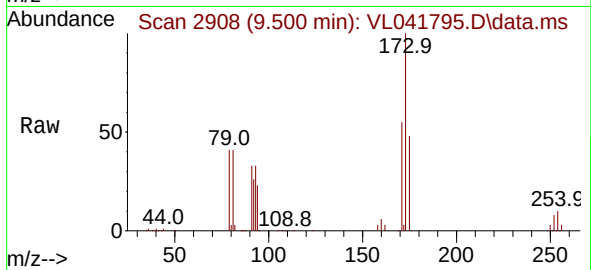
Tgt Ion:173 Resp: 80840

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

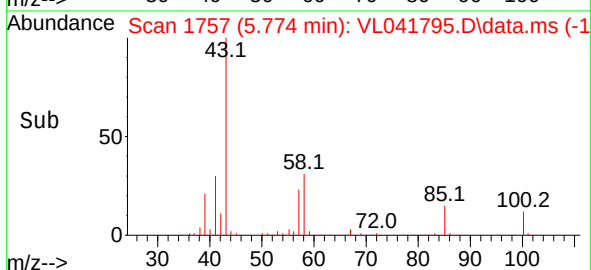
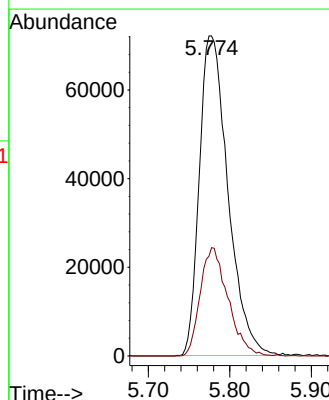
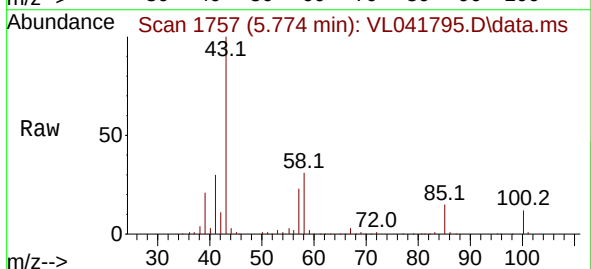
Acq: 18 Dec 2024 16:06

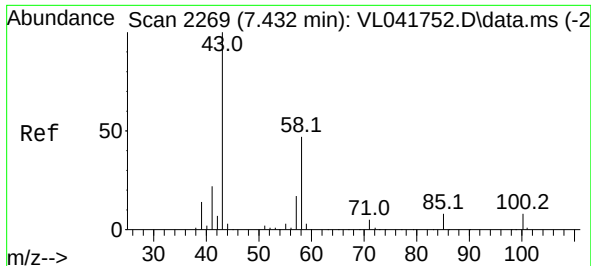
Tgt Ion: 43 Resp: 175817

Ion Ratio Lower Upper

43 100

58 32.9 26.8 40.2

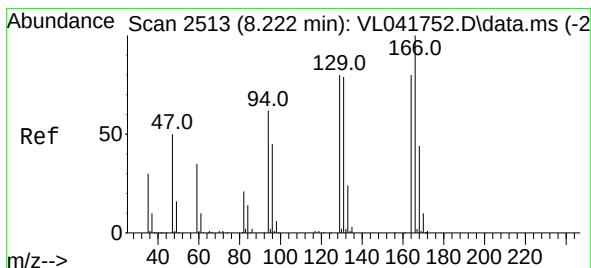
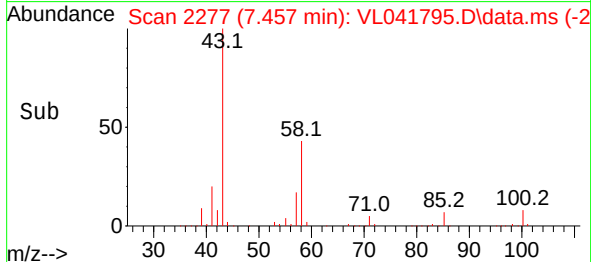
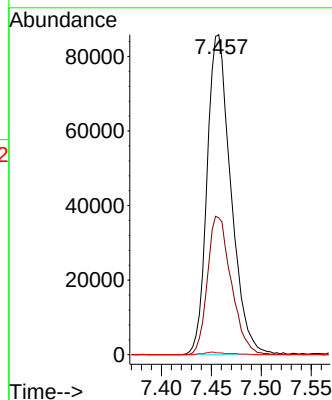
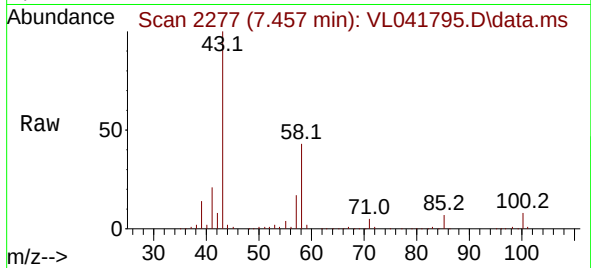




#51
2-Hexanone
Concen: 8.752 ppbv
RT: 7.457 min Scan# 21
Delta R.T. 0.025 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

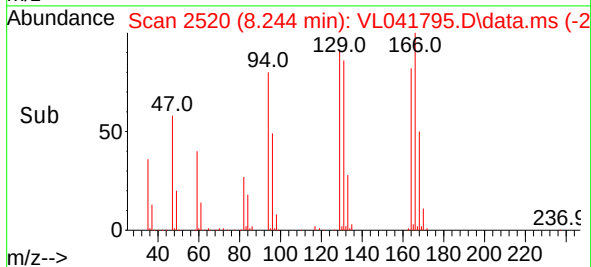
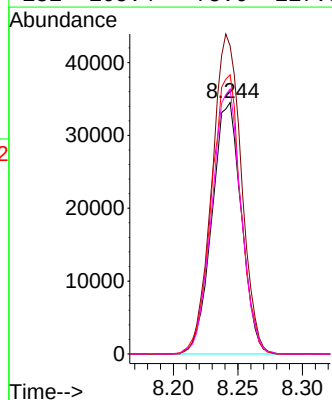
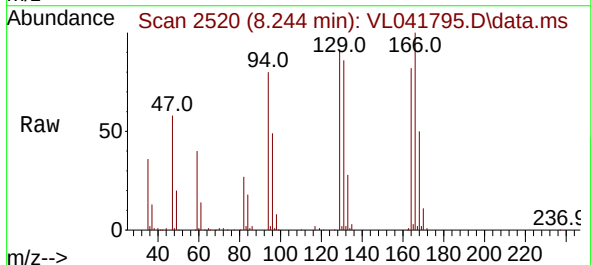
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

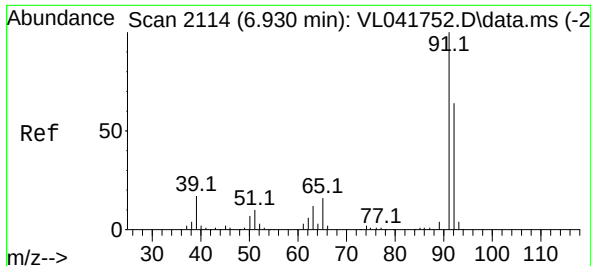
Tgt Ion: 43 Resp: 142403
Ion Ratio Lower Upper
43 100
58 43.1 36.6 55.0
98 0.8 0.1 0.1#



#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 :

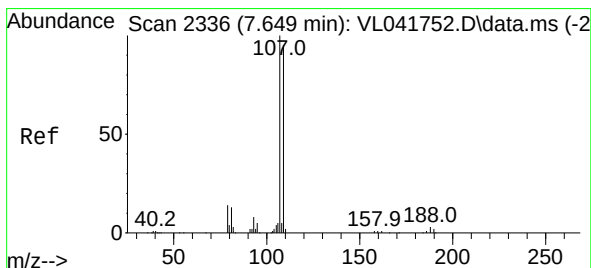
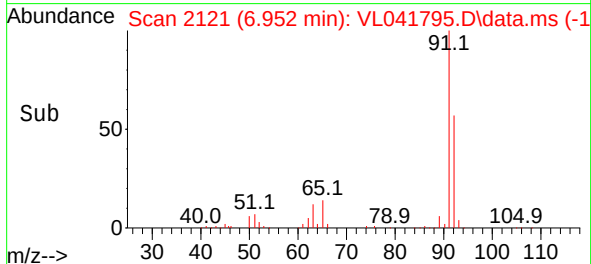
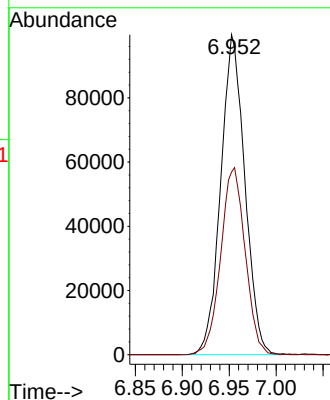
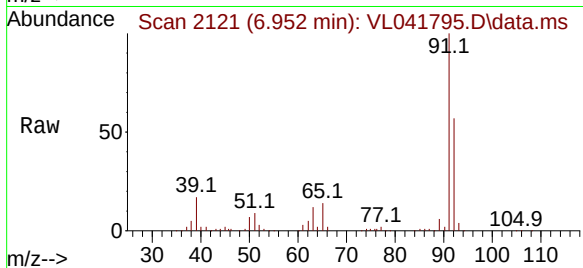
VL1218ABS01

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

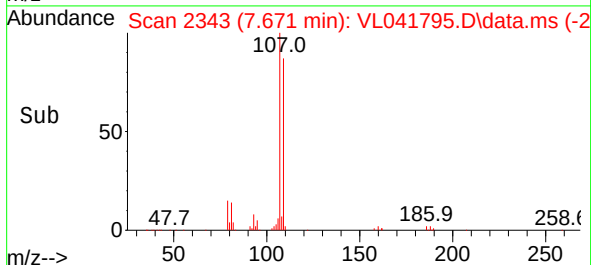
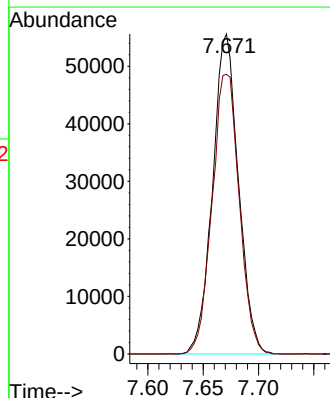
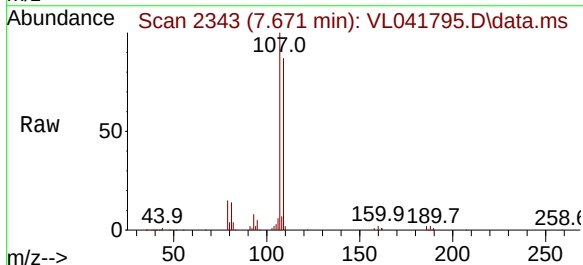
Acq: 18 Dec 2024 16:06

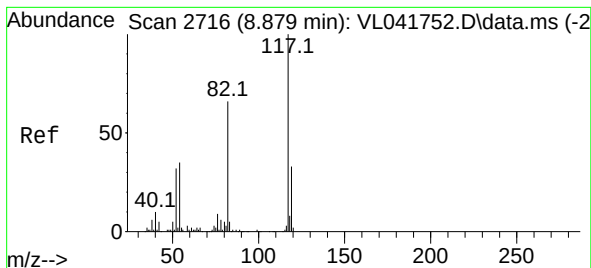
Tgt Ion: 107 Resp: 90389

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_1

ClientSampleId :

VL1218ABS01

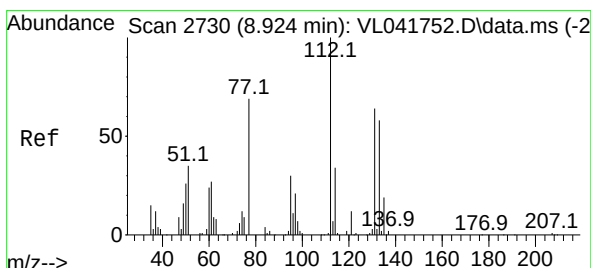
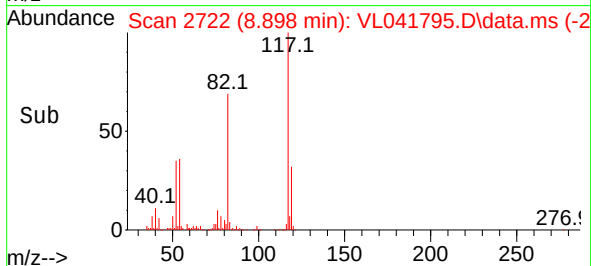
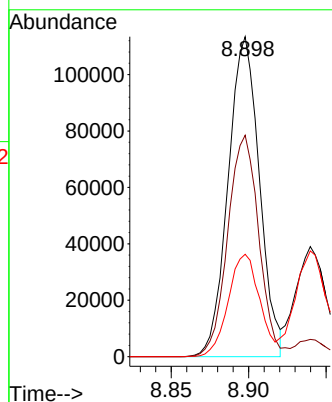
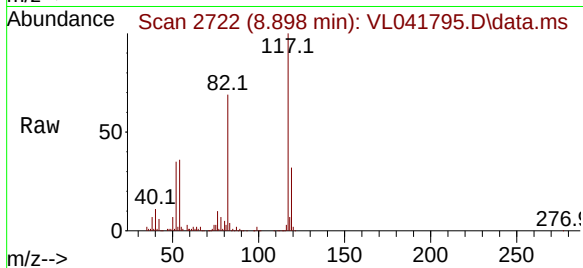
Tgt Ion:117 Resp: 159496

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

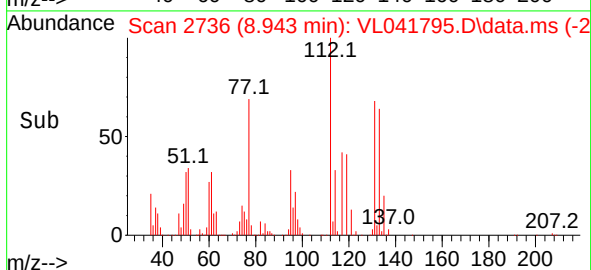
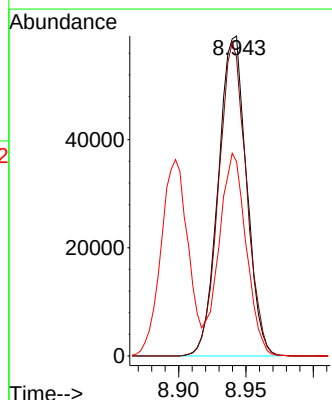
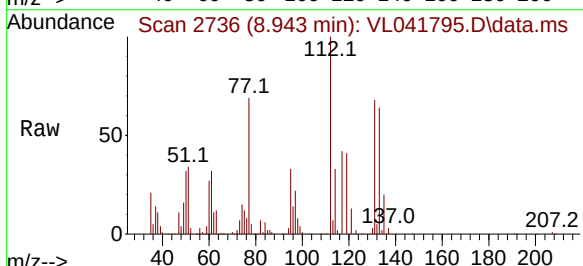
Tgt Ion:131 Resp: 86262

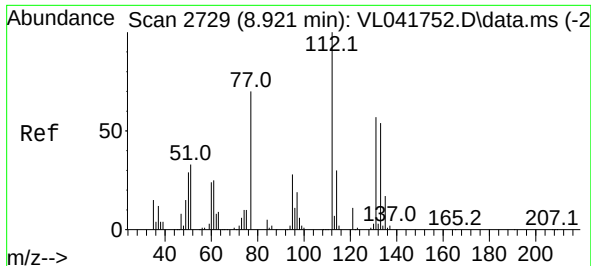
Ion Ratio Lower Upper

131 100

133 96.4 76.8 115.2

119 61.2 49.0 73.6

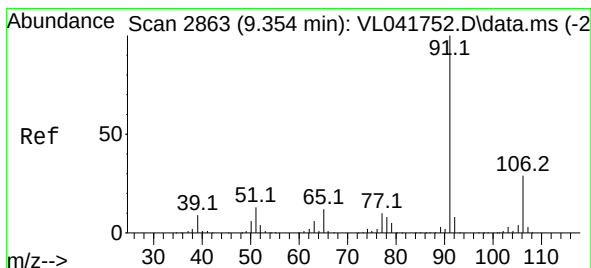
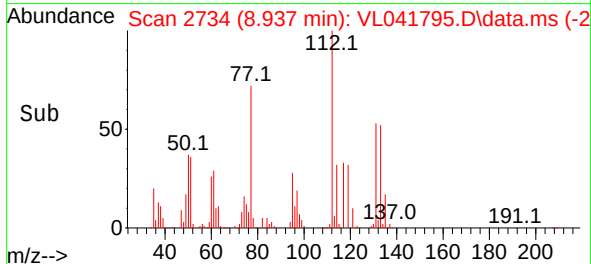
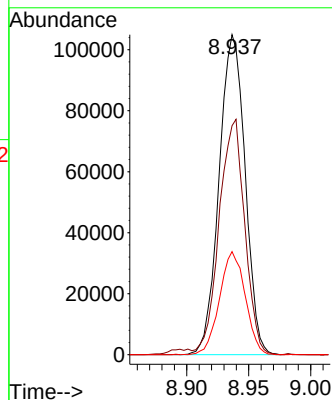
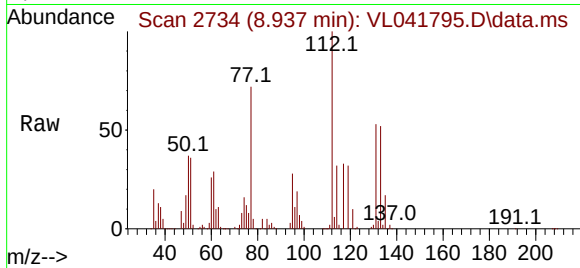




#57
Chlorobenzene
Concen: 9.415 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

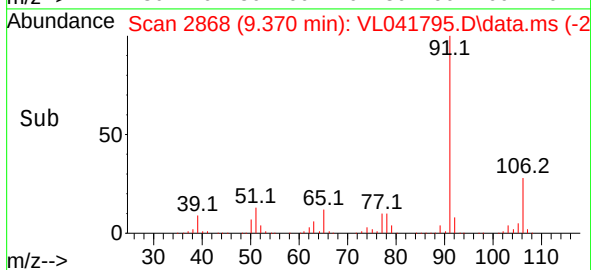
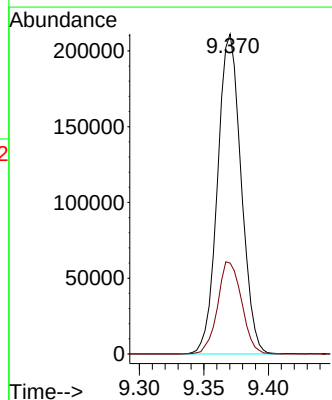
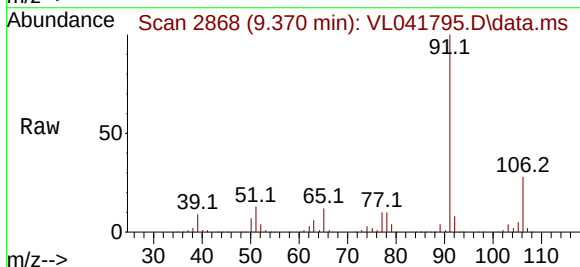
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

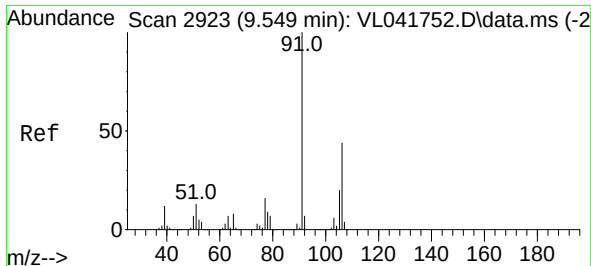
Tgt Ion:112 Resp: 153659
Ion Ratio Lower Upper
112 100
77 71.6 57.4 86.0
114 32.2 27.4 33.4



#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 :

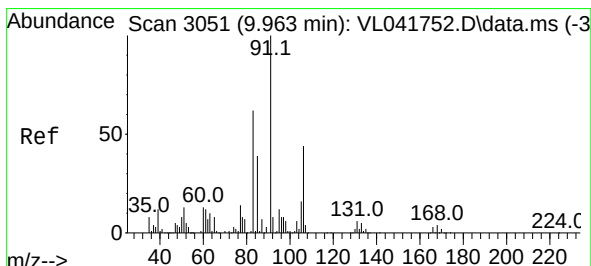
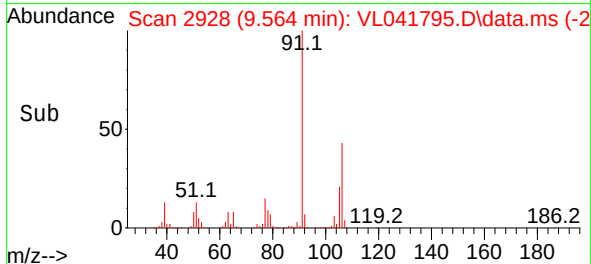
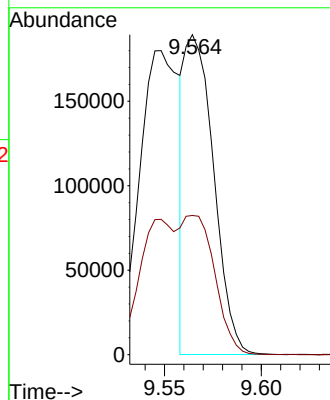
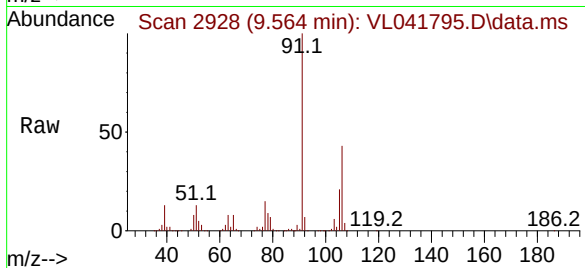
VL1218ABS01

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

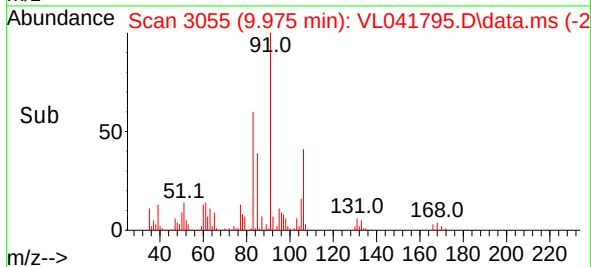
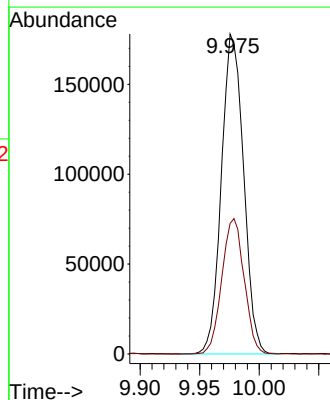
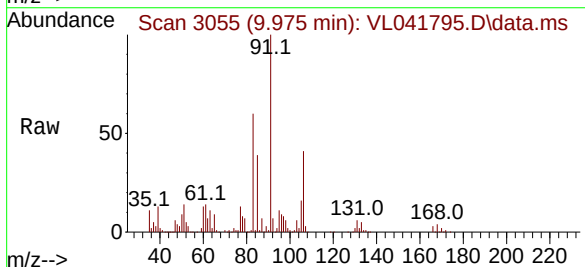
Acq: 18 Dec 2024 16:06

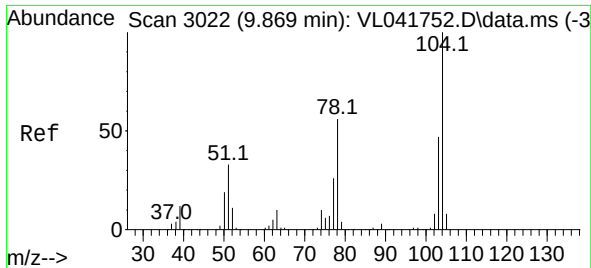
Tgt Ion: 91 Resp: 229919

Ion Ratio Lower Upper

91 100

106 42.5 21.1 63.4

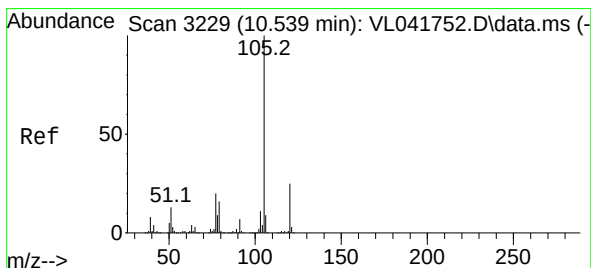
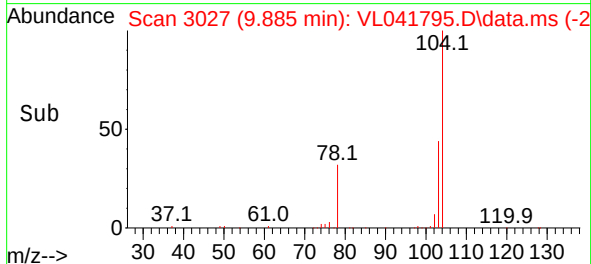
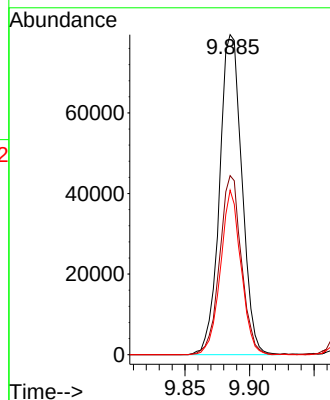
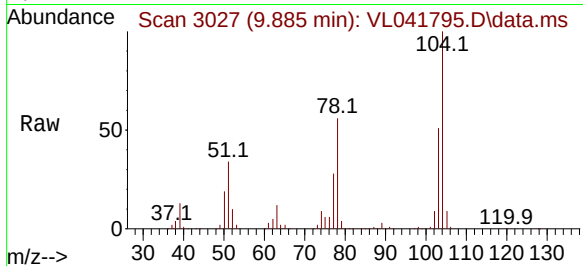




#61
Styrene
Concen: 9.543 ppbv
RT: 9.885 min Scan# 3022
Delta R.T. 0.016 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

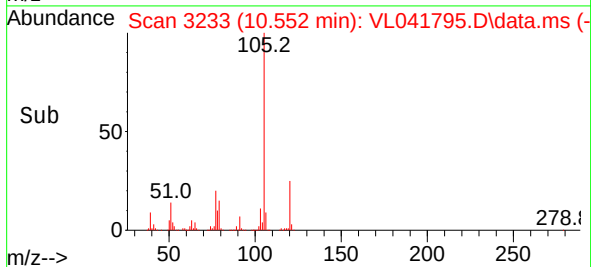
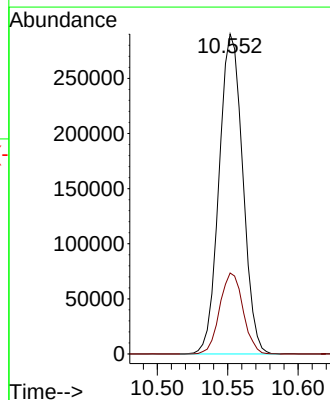
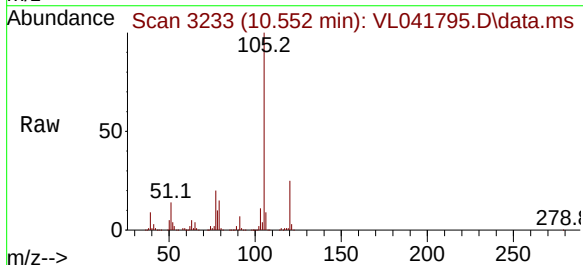
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

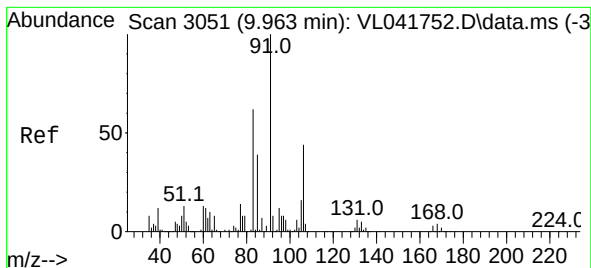
Tgt Ion:104 Resp: 95536
Ion Ratio Lower Upper
104 100
78 54.4 43.8 65.6
103 47.1 37.8 56.6



#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

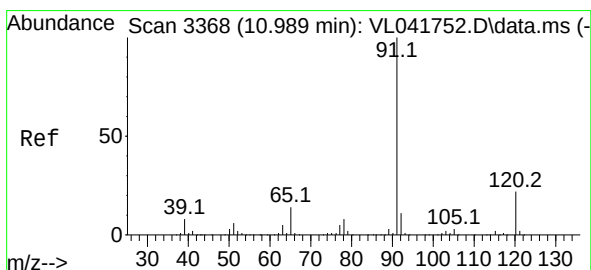
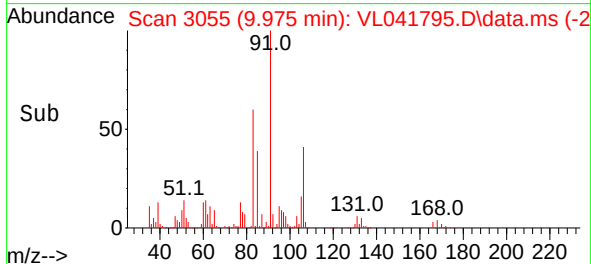
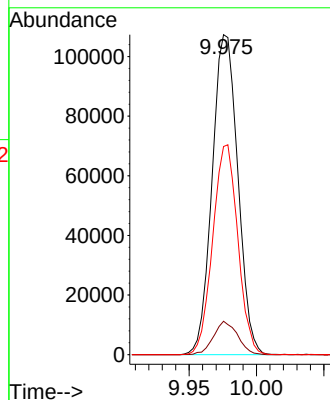
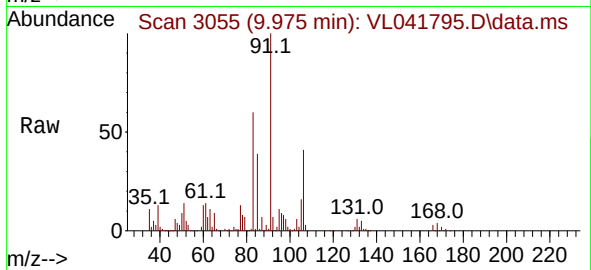
Tgt Ion: 83 Resp: 142272

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

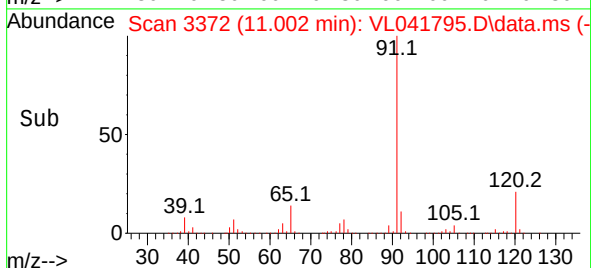
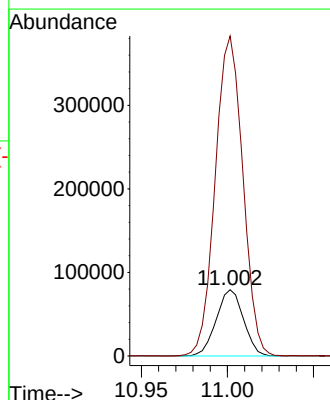
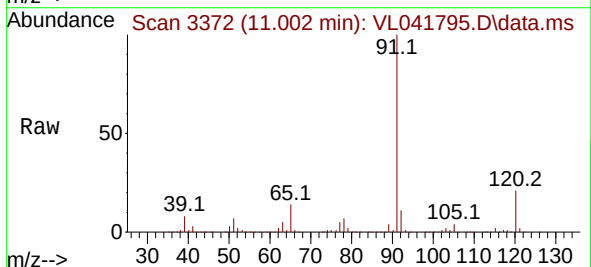
Acq: 18 Dec 2024 16:06

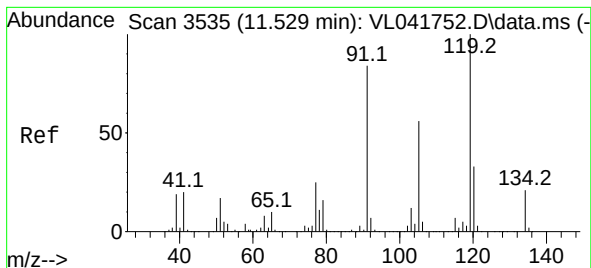
Tgt Ion:120 Resp: 86896

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_L

ClientSampleId :

VL1218ABS01

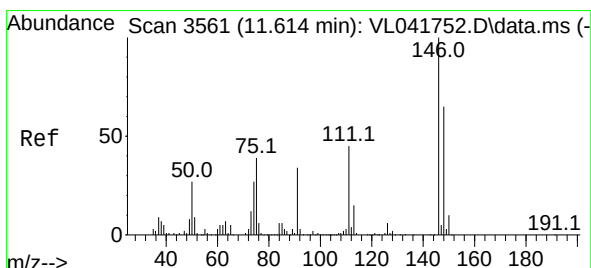
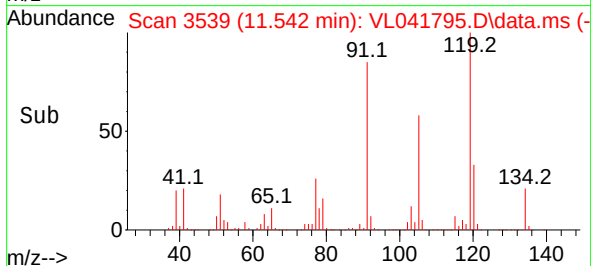
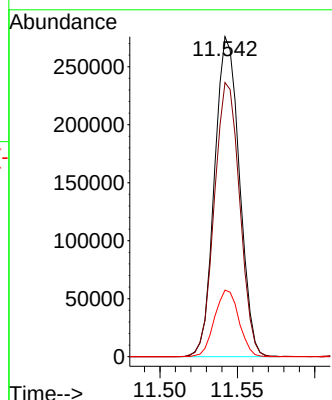
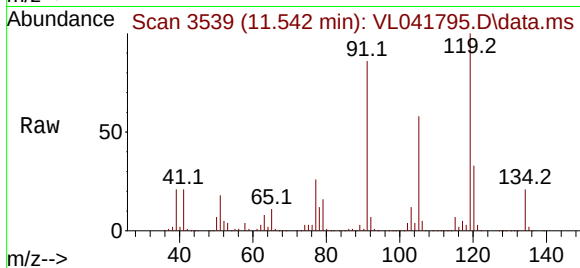
Tgt Ion:119 Resp: 307835

Ion Ratio Lower Upper

119 100

91 87.3 67.0 100.4

134 20.4 16.5 24.7



#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

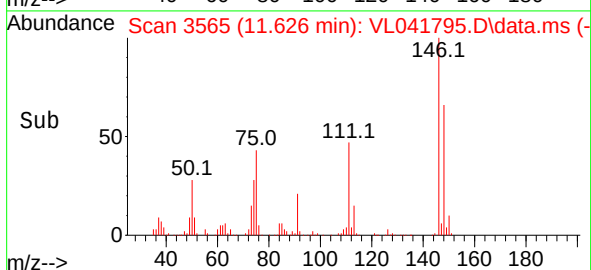
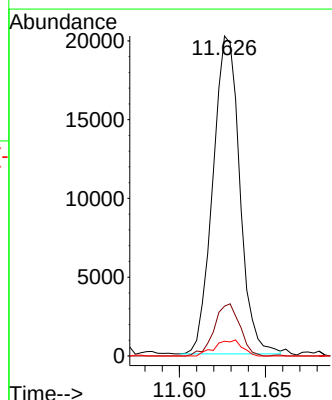
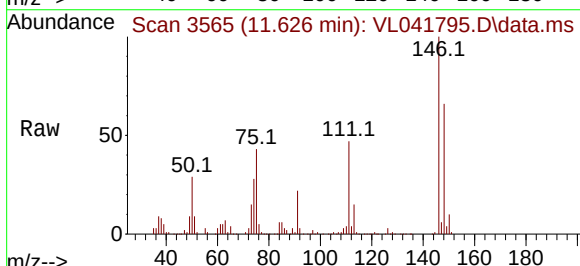
Tgt Ion: 91 Resp: 21939

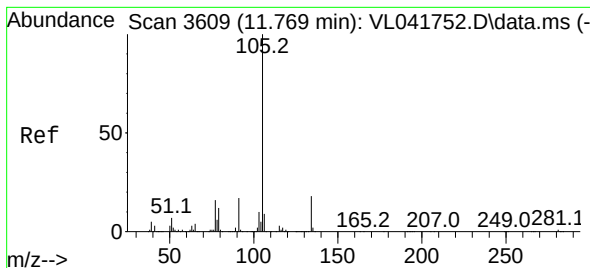
Ion Ratio Lower Upper

91 100

126 15.7 13.9 20.9

128 5.1 4.4 6.6

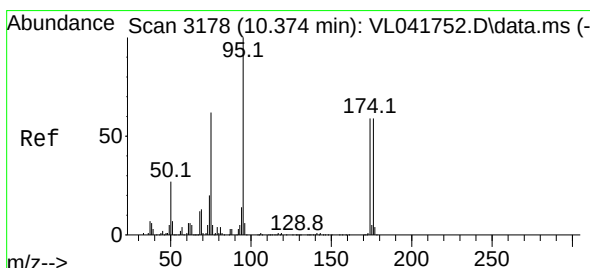
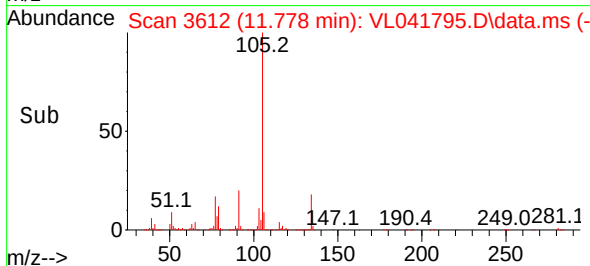
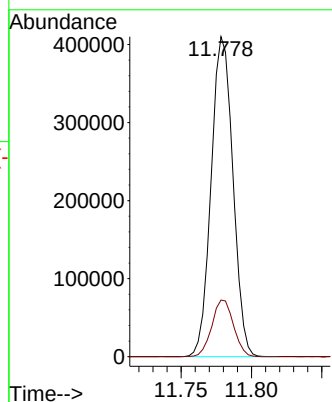
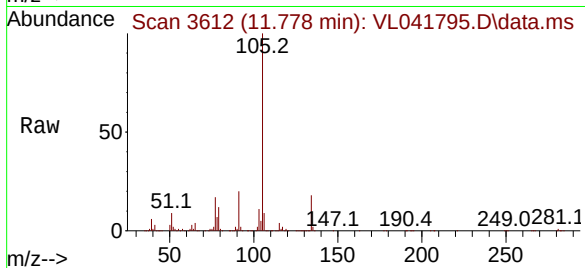




#67
 sec-Butylbenzene
 Concen: 10.167 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.009 min
 Lab File: VL041795.D
 Acq: 18 Dec 2024 16:06

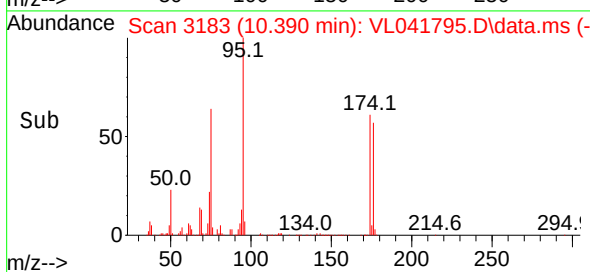
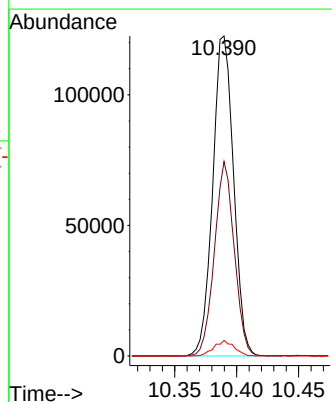
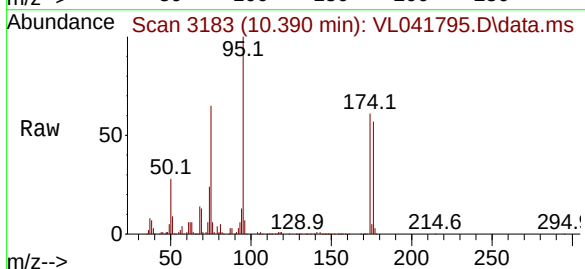
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1218ABS01

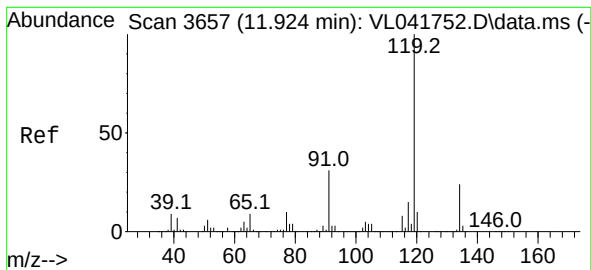
Tgt Ion:105 Resp: 441578
 Ion Ratio Lower Upper
 105 100
 134 17.6 14.5 21.7



#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

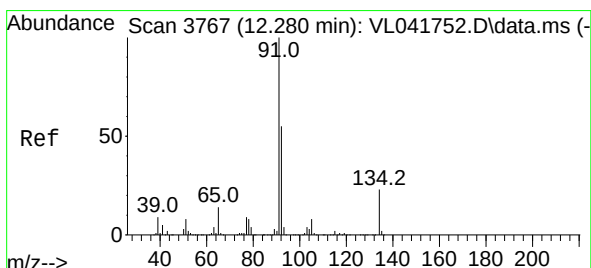
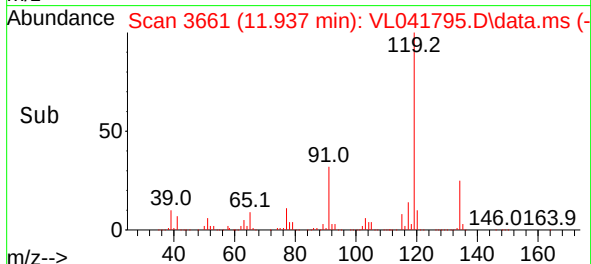
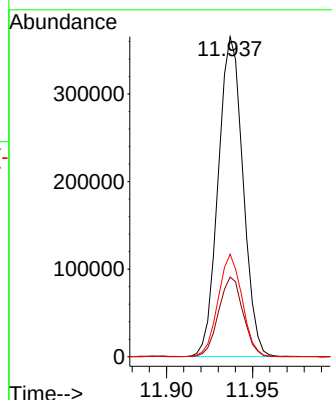
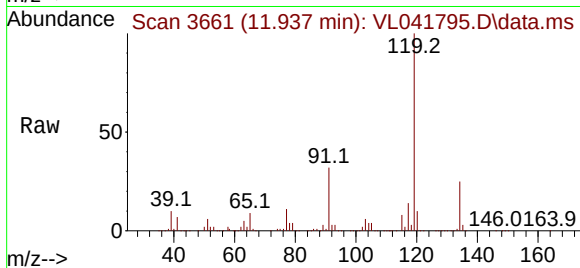
Tgt Ion:119 Resp: 366111

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

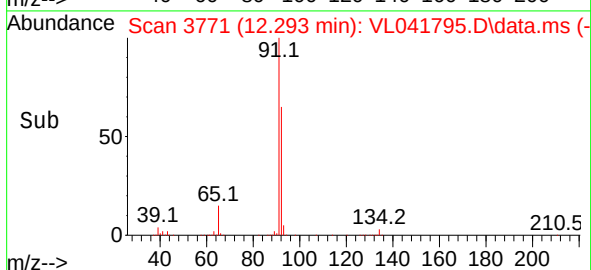
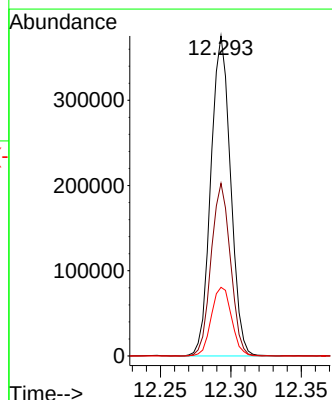
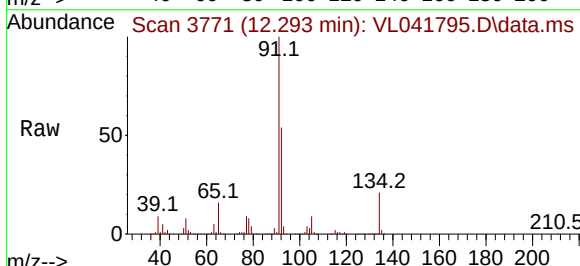
Tgt Ion: 91 Resp: 366451

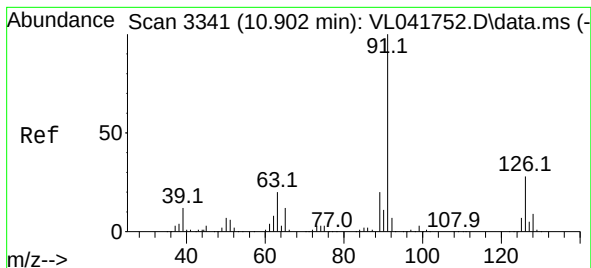
Ion Ratio Lower Upper

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_1

ClientSampleId :

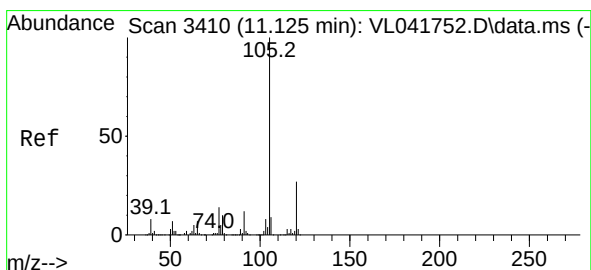
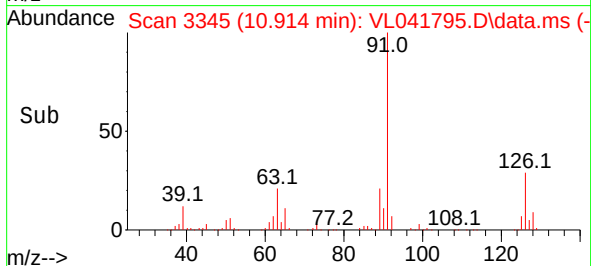
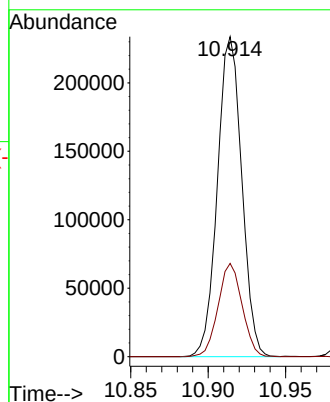
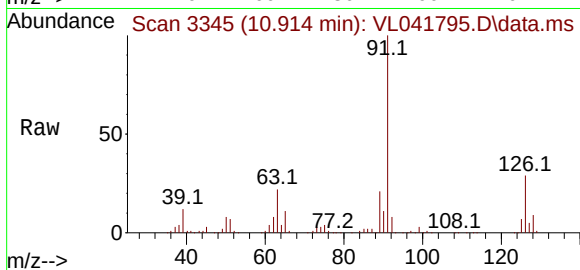
VL1218ABS01

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

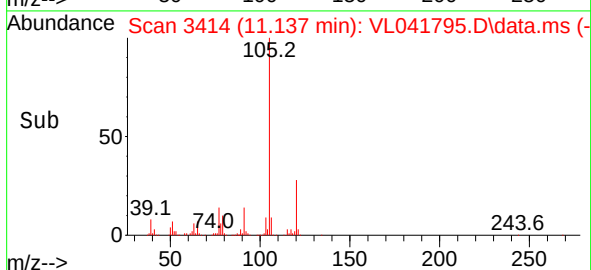
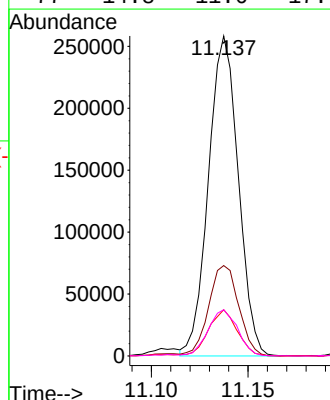
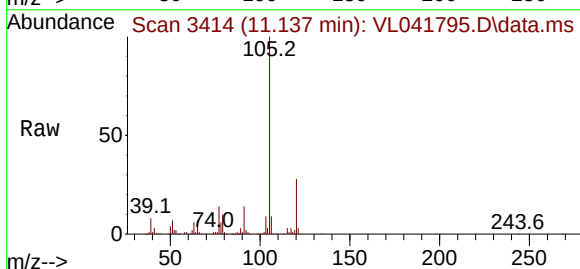
Ion Ratio Lower Upper

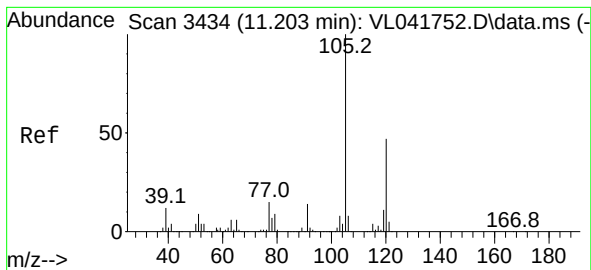
105 100

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_L

ClientSampleId :

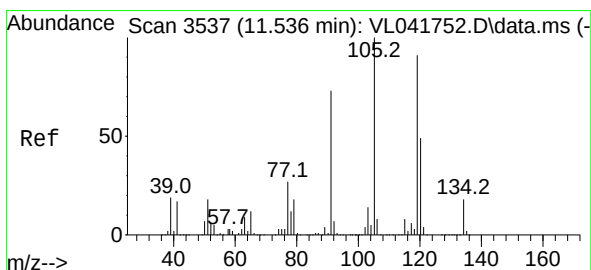
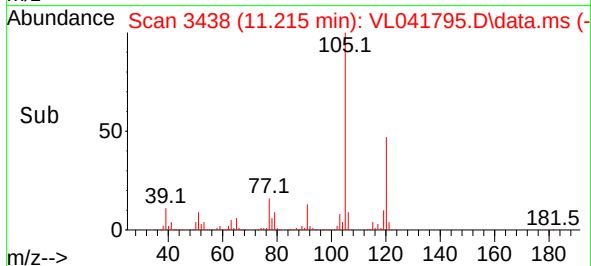
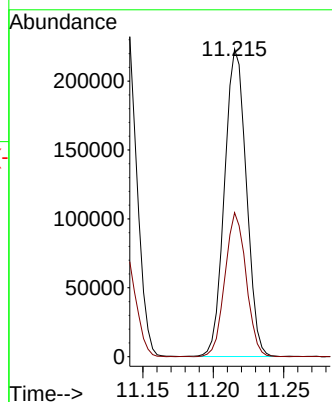
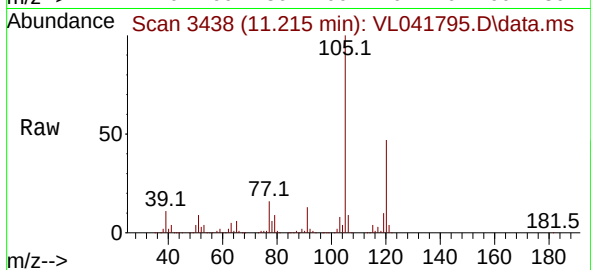
VL1218ABS01

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

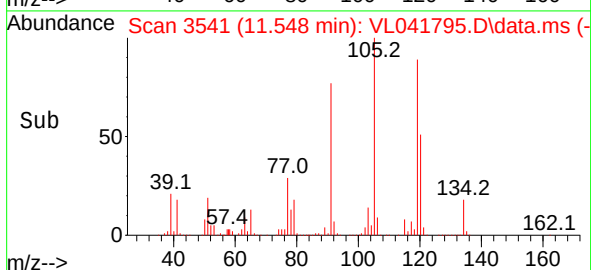
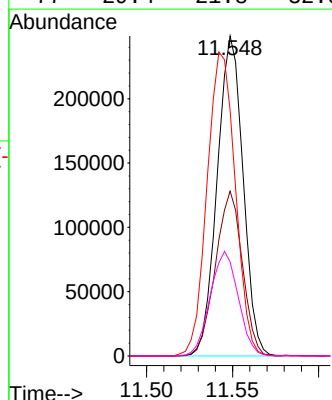
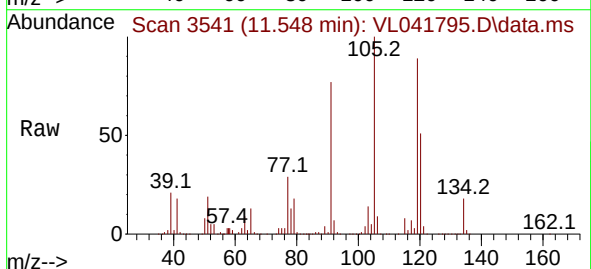
Ion Ratio Lower Upper

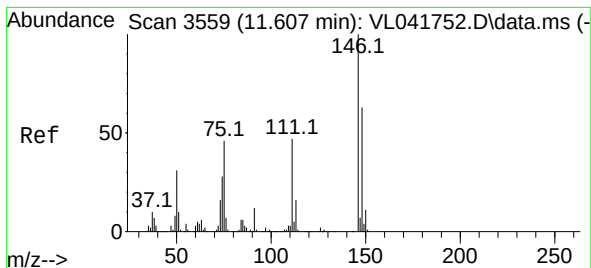
105 100

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# 3559

Delta R.T. 0.013 min

Lab File: VL041795.D

Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_1

ClientSampleId :

VL1218ABS01

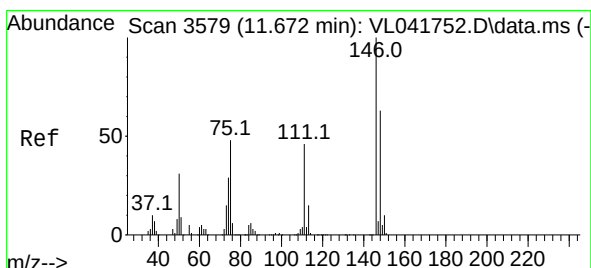
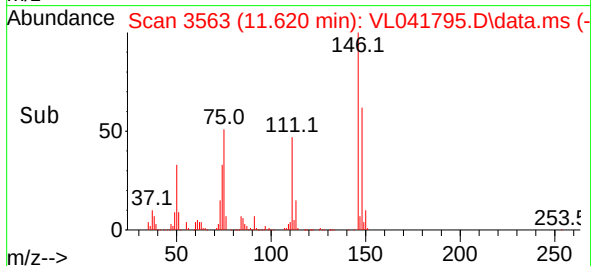
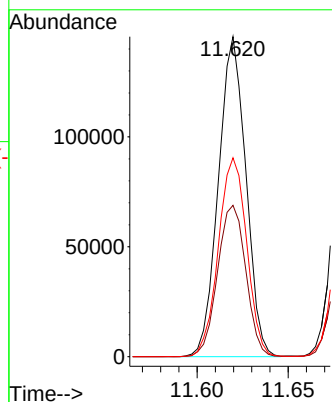
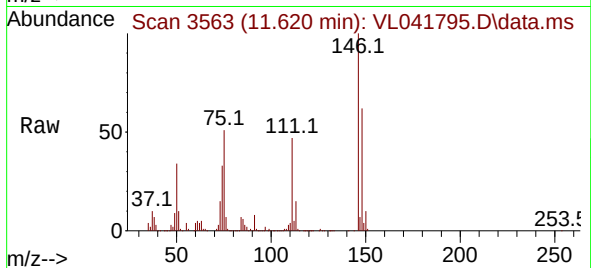
Tgt Ion:146 Resp: 152493

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

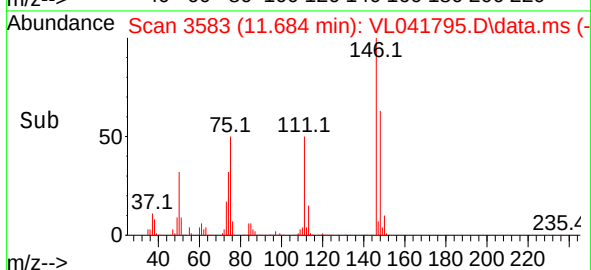
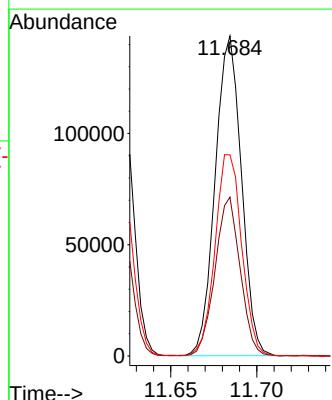
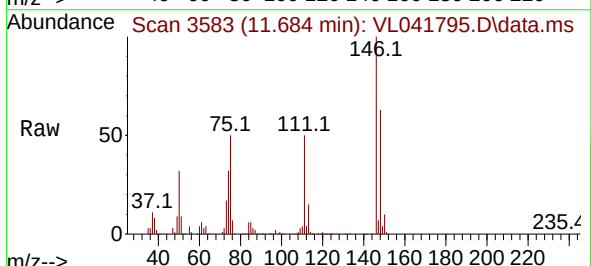
Tgt Ion:146 Resp: 152432

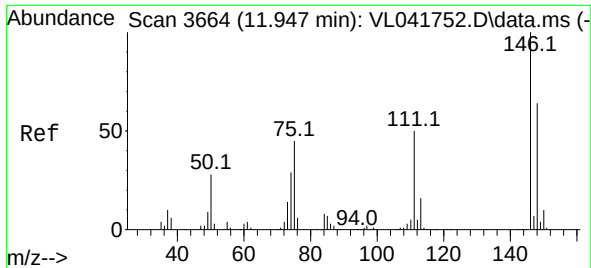
Ion Ratio Lower Upper

146 100

111 47.8 22.7 68.1

148 64.5 31.4 94.0

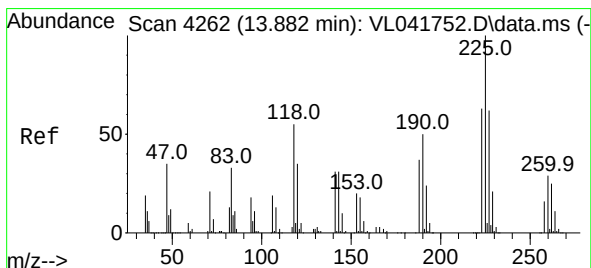
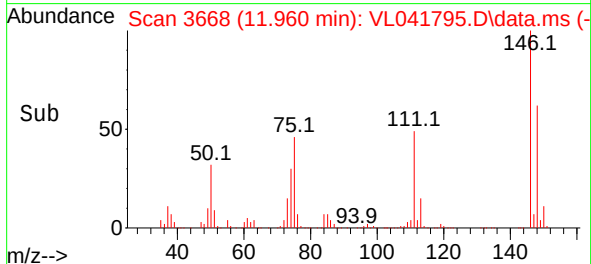
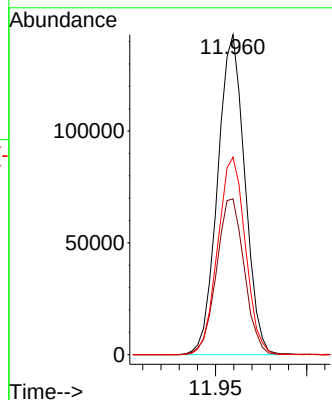
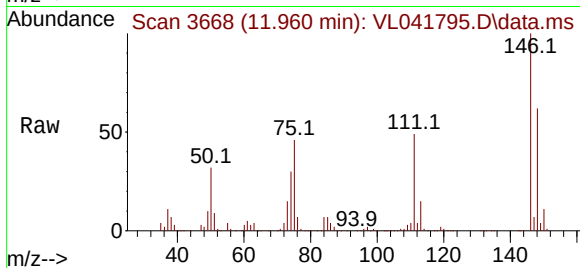




#77
1,2-Dichlorobenzene
Concen: 9.922 ppbv
RT: 11.960 min Scan# 30
Delta R.T. 0.013 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

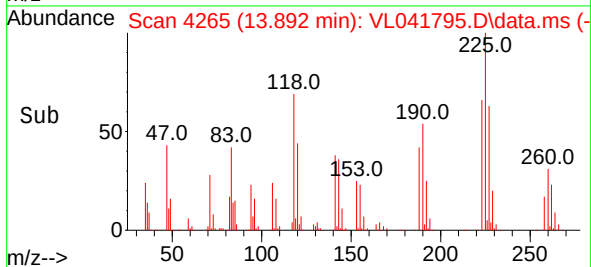
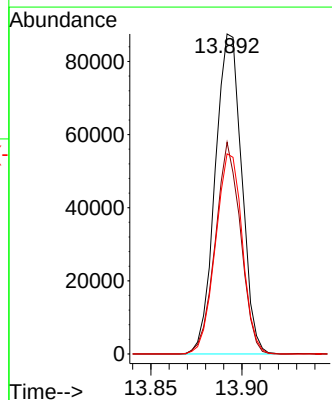
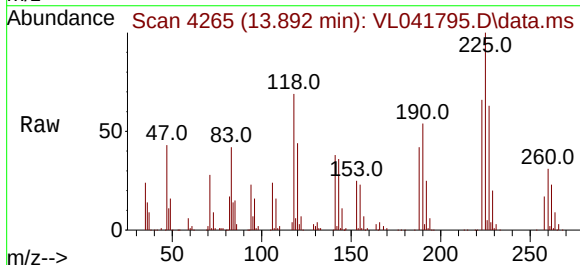
Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

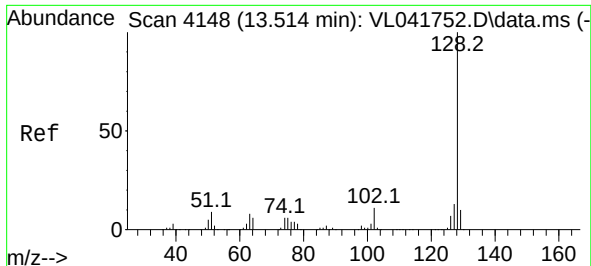
Tgt Ion:146 Resp: 148412
Ion Ratio Lower Upper
146 100
111 50.0 24.8 74.3
148 62.8 31.8 95.4



#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

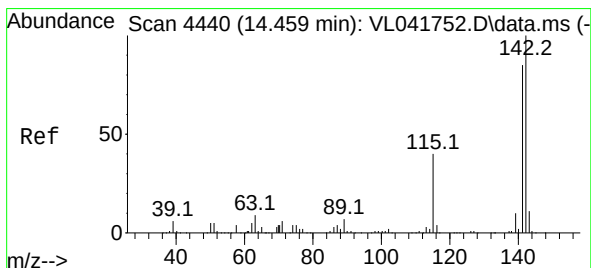
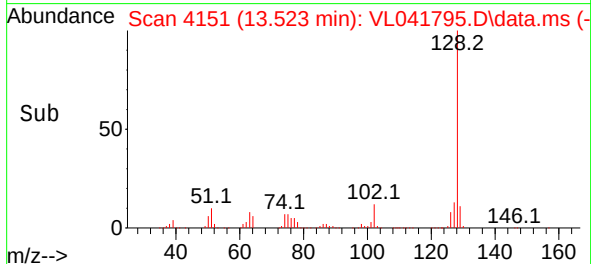
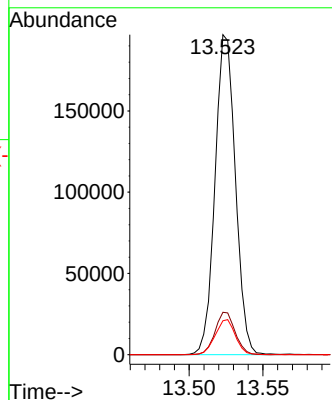
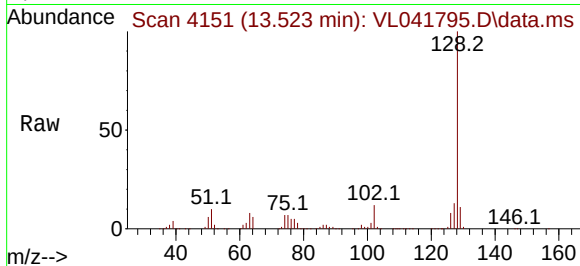




#79
Naphthalene
Concen: 11.154 ppbv
RT: 13.523 min Scan# 4148
Delta R.T. 0.009 min
Lab File: VL041795.D
Acq: 18 Dec 2024 16:06

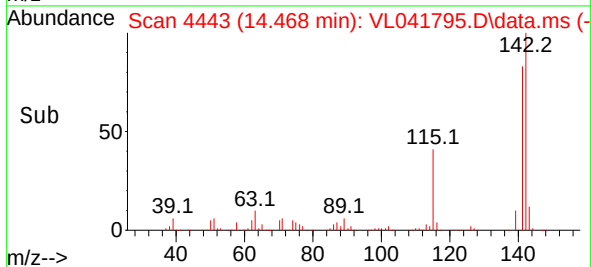
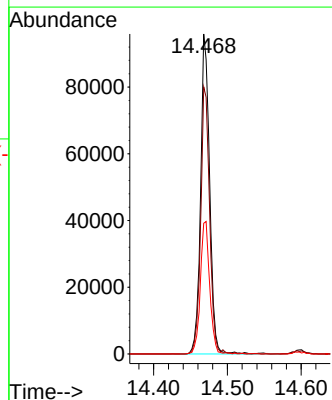
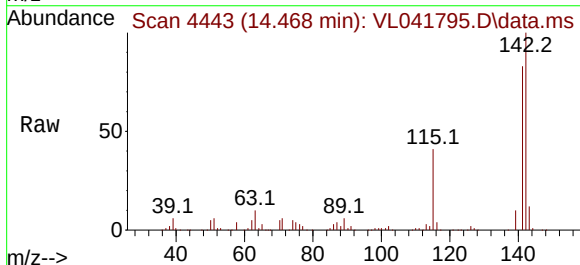
Instrument :
MSVOA_1
ClientSampleId :
VL1218ABS01

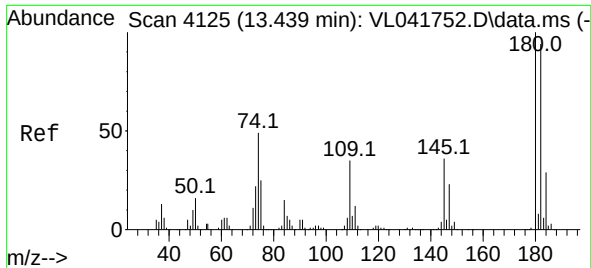
Tgt Ion:128 Resp: 189506
Ion Ratio Lower Upper
128 100
127 13.3 10.7 16.1
129 10.6 8.2 12.4



#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

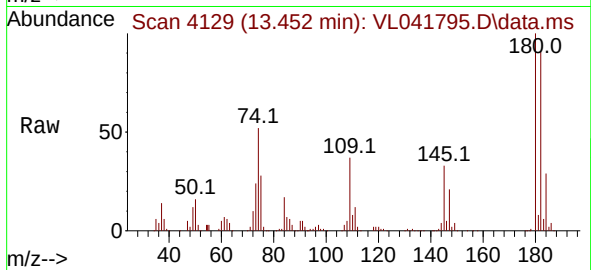
Acq: 18 Dec 2024 16:06

Instrument :

MSVOA_L

ClientSampleId :

VL1218ABS01



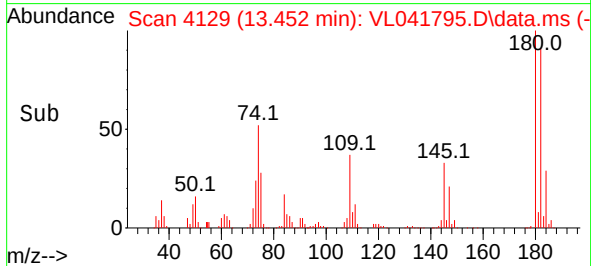
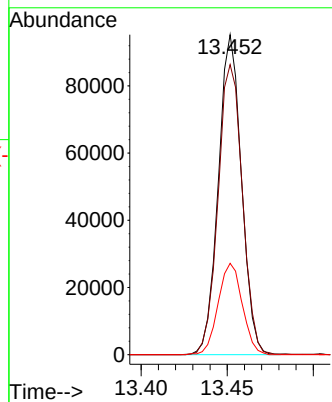
Tgt Ion:180 Resp: 89052

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 : VL041802.D
 Acq On : 18 Dec 2024 19:58
 Operator : SY/MD
 Sample : P5294-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB6

Quant Time: Dec 19 07:58:37 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

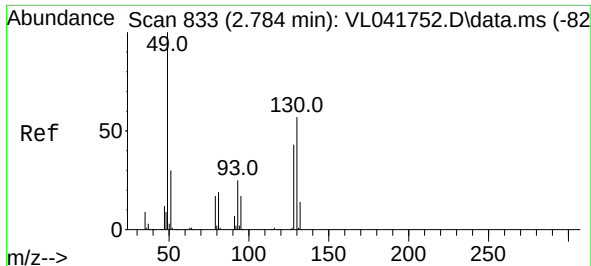
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	77034	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.971	114	192884	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	185181	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	150031	9.722	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.502	85	4687	0.342	ppbv	96
3) Chlorodifluoromethane	1.538	51	571	0.045	ppbv	99
4) Chloromethane	1.534	50	2543	0.474	ppbv	96
9) Propene	1.777	41	841	0.154	ppbv	92
10) Heptane	5.001	43	1896	0.136	ppbv #	39
11) Trichlorofluoromethane	1.884	101	2709	0.186	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	598	0.054	ppbv	94
13) Ethanol	1.725	45	8754	19.416	ppbv	94
15) Acetone	1.842	43	46647	3.112	ppbv	93
16) 1,3-Butadiene	1.606	39	5842	0.990	ppbv #	29
17) tert-Butyl alcohol	2.049	59	7709	0.518	ppbv	96
19) Isopropyl Alcohol	1.890	45	11560	1.285	ppbv #	30
20) Methylene Chloride	2.068	84	1379	0.323	ppbv #	76
21) Allyl Chloride	2.085	41	413	0.051	ppbv #	25
23) Vinyl Acetate	2.457	43	6394	0.919	ppbv #	88
25) Ethyl Acetate	2.852	43	11451	0.411	ppbv #	92
26) Hexane	2.839	57	2712	0.256	ppbv #	29
27) Carbon Disulfide	2.159	76	616	0.065	ppbv #	1
29) Chloroform	2.855	83	796	0.049	ppbv #	73
30) Cyclohexane	3.878	84	1001	0.111	ppbv #	1
31) cis-1,2-Dichloroethene	2.848	61	1221	0.112	ppbv #	28
34) 2-Butanone	2.570	43	10728	0.691	ppbv	96
36) Benzene	3.670	78	4321	0.217	ppbv	93
39) 1,2-Dichloropropane	3.975	63	53145	7.365	ppbv #	18
41) Tetrahydrofuran	3.075	42	5402	0.621	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	1670	0.049	ppbv #	1
53) Toluene	6.956	91	82132	3.631	ppbv	99
57) Chlorobenzene	8.937	112	1507	0.080	ppbv	88
58) Ethyl Benzene	9.367	91	11534	0.346	ppbv	95
59) m/p-Xylene	9.564	91	8373	0.312	ppbv #	100
60) o-Xylene	9.979	91	13407	0.499	ppbv	96
61) Styrene	9.882	104	3334	0.287	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	1962	0.069	ppbv #	70

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

Quant Time: Dec 19 07:58:37 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

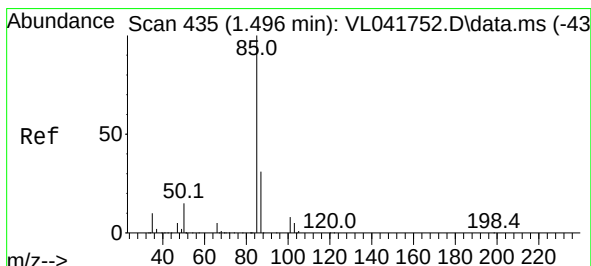
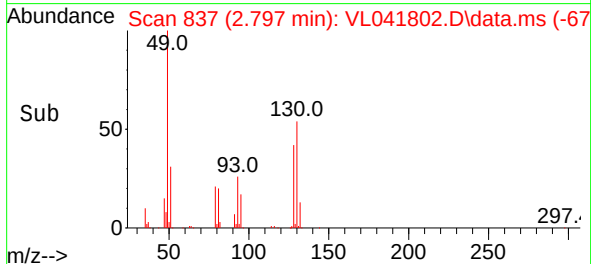
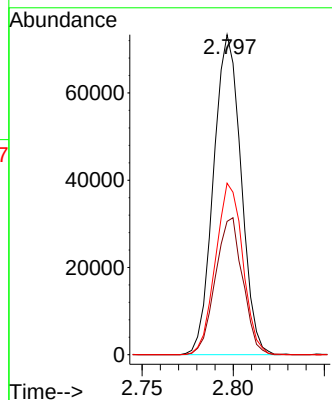
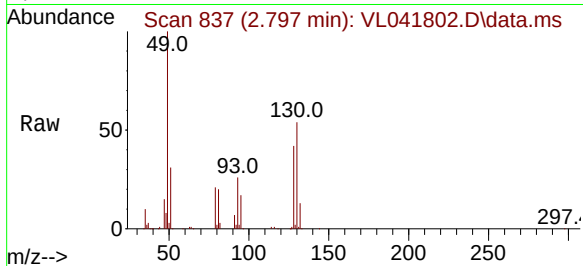




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 841
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

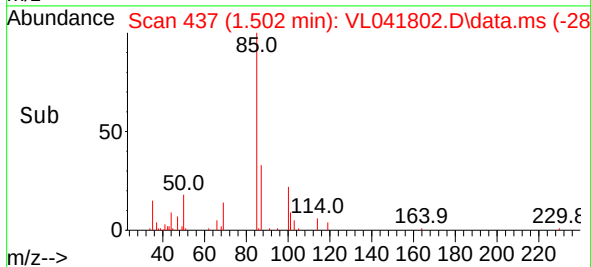
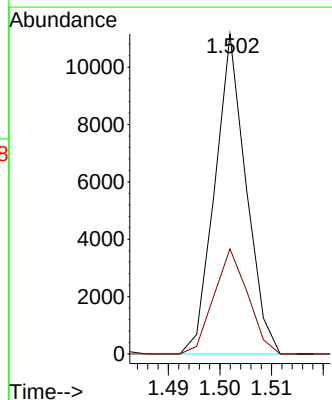
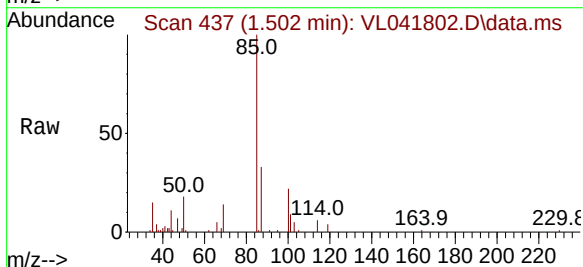
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

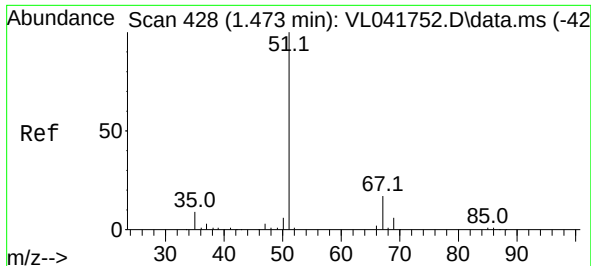
Tgt Ion: 49 Resp: 77034
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.6
130 53.1 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.342 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 85 Resp: 4687
Ion Ratio Lower Upper
85 100
87 32.8 24.5 36.7

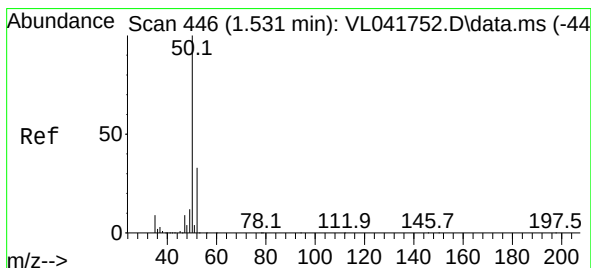
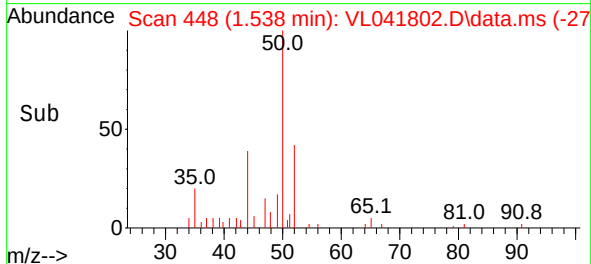
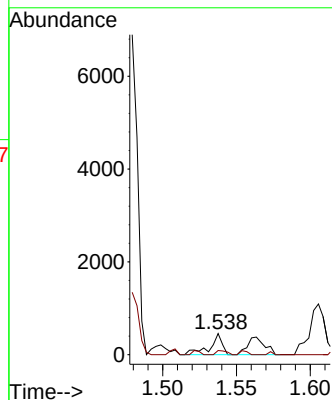
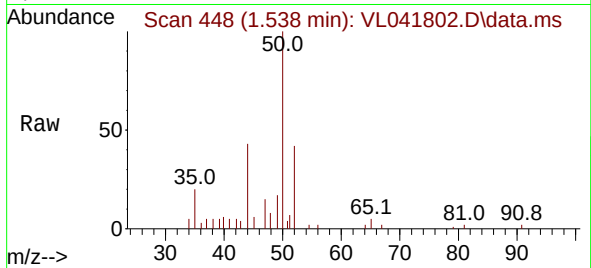




#3
Chlorodifluoromethane
Concen: 0.045 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.064 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

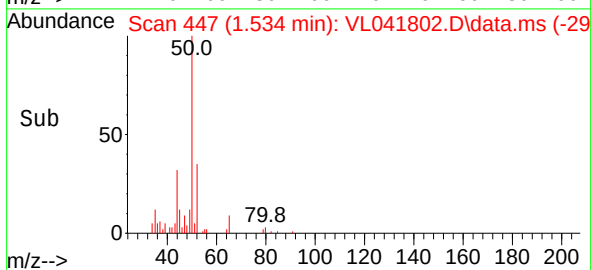
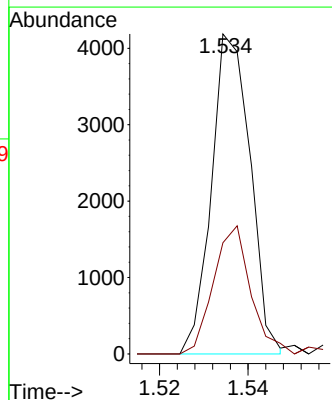
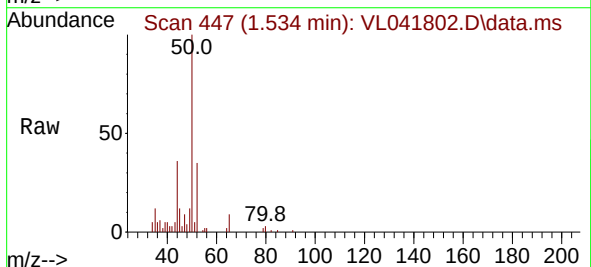
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

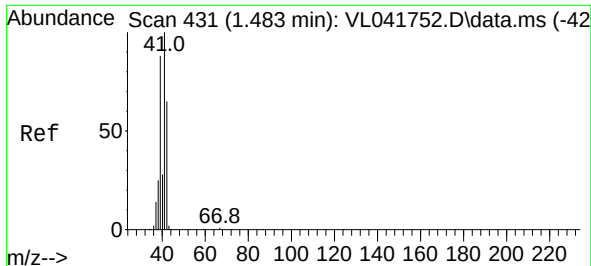
Tgt Ion: 51 Resp: 571
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.4



#4
Chloromethane
Concen: 0.474 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 50 Resp: 2543
Ion Ratio Lower Upper
50 100
52 34.8 26.2 39.2





#9

Propene

Concen: 0.154 ppbv

RT: 1.777 min Scan# 51

Delta R.T. 0.294 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

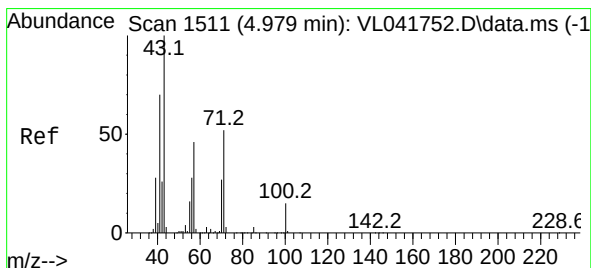
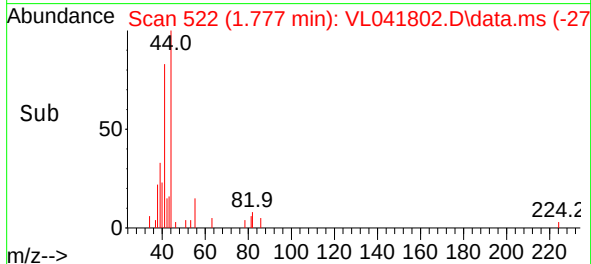
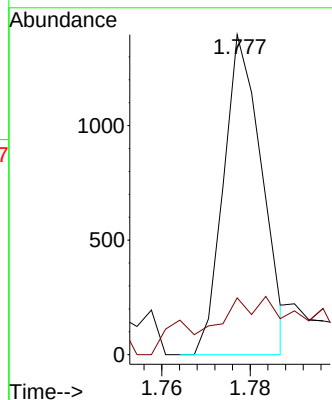
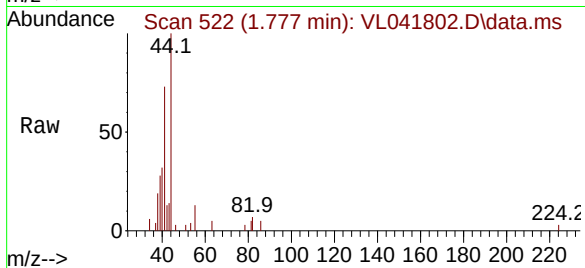
C0AB6

Tgt Ion: 41 Resp: 841

Ion Ratio Lower Upper

41 100

42 59.3 52.4 78.6



#10

Heptane

Concen: 0.136 ppbv

RT: 5.001 min Scan# 1518

Delta R.T. 0.022 min

Lab File: VL041802.D

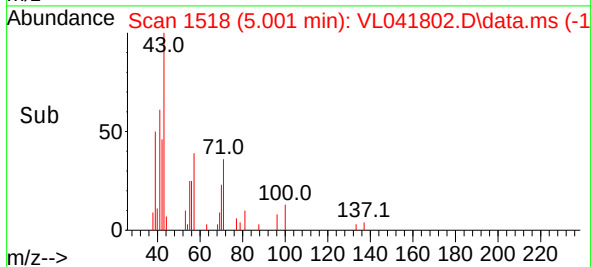
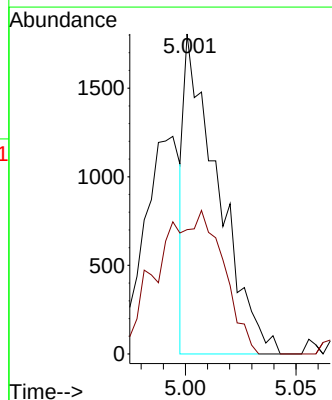
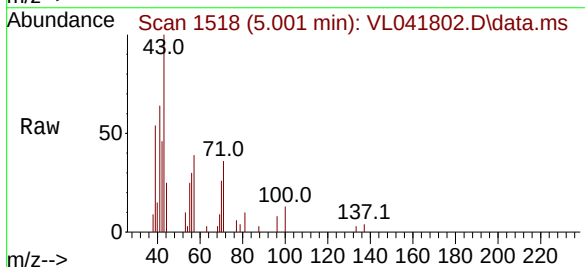
Acq: 18 Dec 2024 19:58

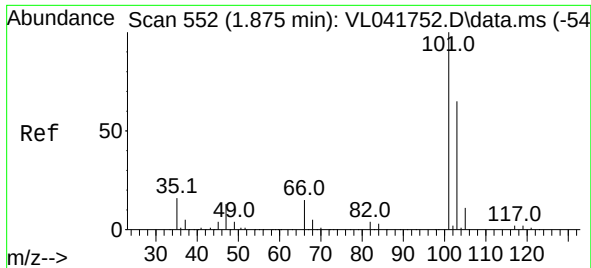
Tgt Ion: 43 Resp: 1896

Ion Ratio Lower Upper

43 100

57 89.5 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.186 ppbv

RT: 1.884 min Scan# 51

Delta R.T. 0.009 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

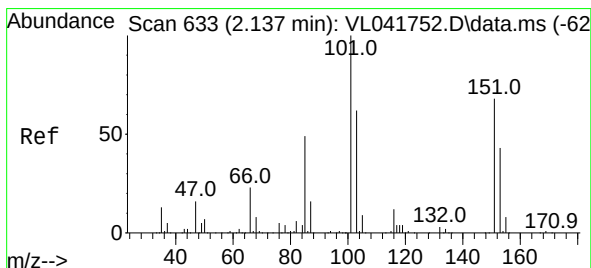
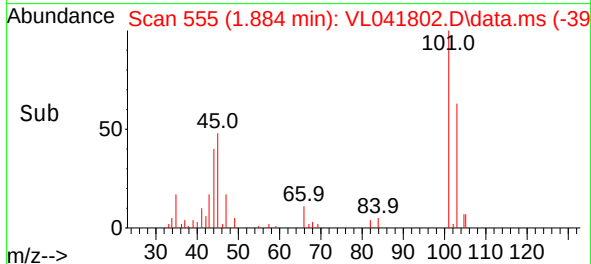
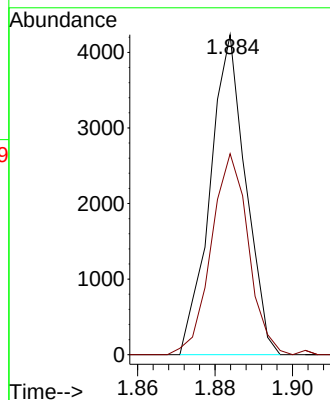
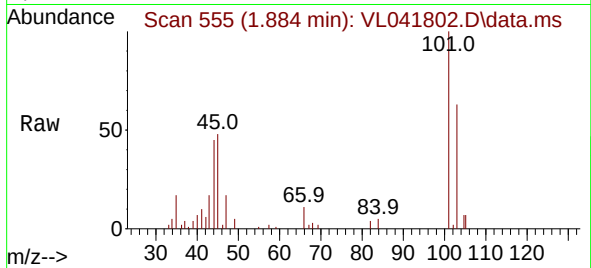
C0AB6

Tgt Ion:101 Resp: 2709

Ion Ratio Lower Upper

101 100

103 61.5 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.054 ppbv

RT: 2.146 min Scan# 636

Delta R.T. 0.009 min

Lab File: VL041802.D

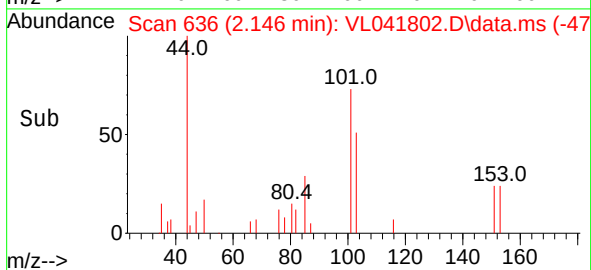
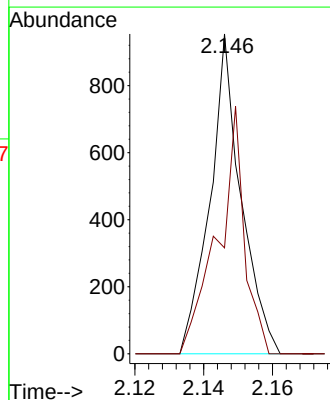
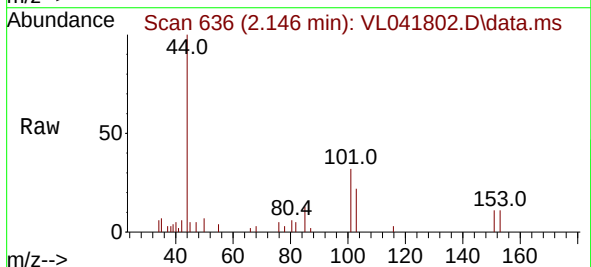
Acq: 18 Dec 2024 19:58

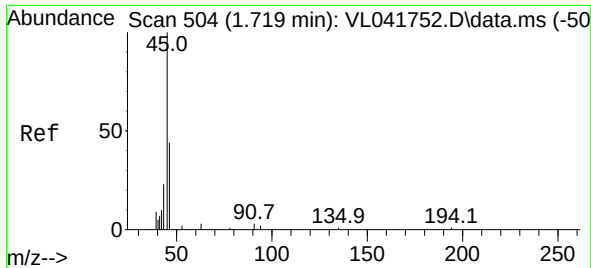
Tgt Ion:101 Resp: 598

Ion Ratio Lower Upper

101 100

151 66.4 56.8 85.2

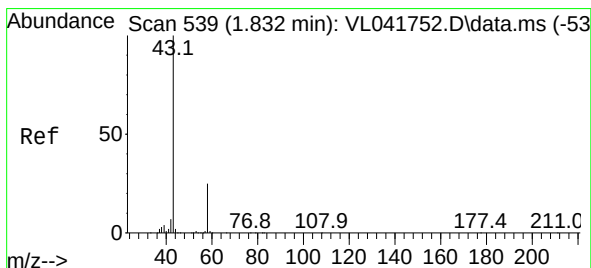
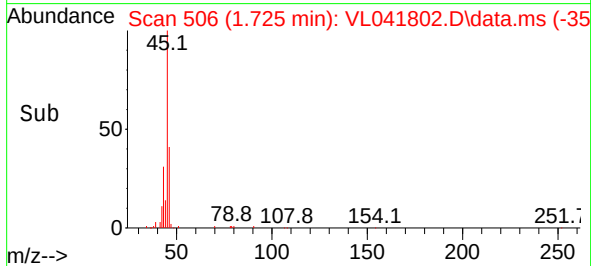
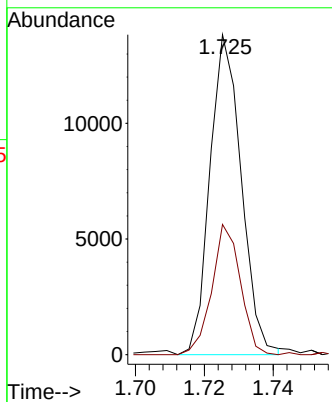
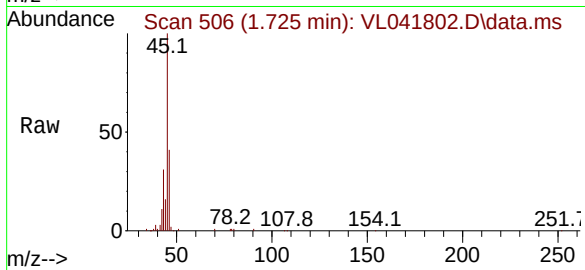




#13
Ethanol
Concen: 19.416 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

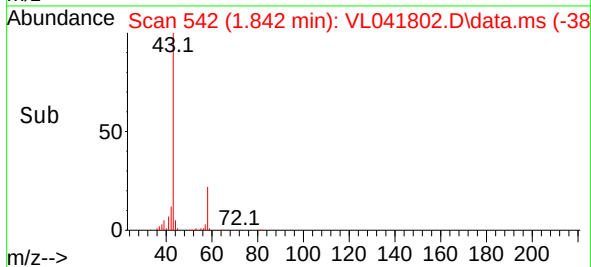
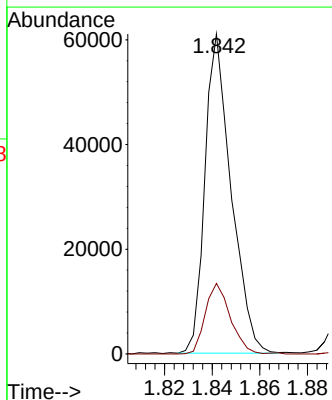
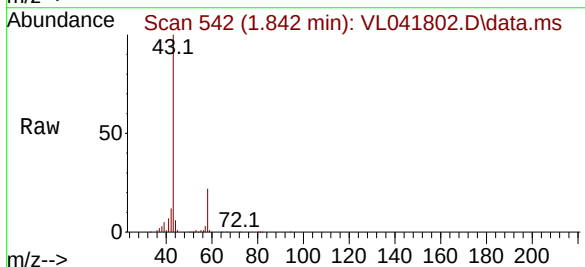
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

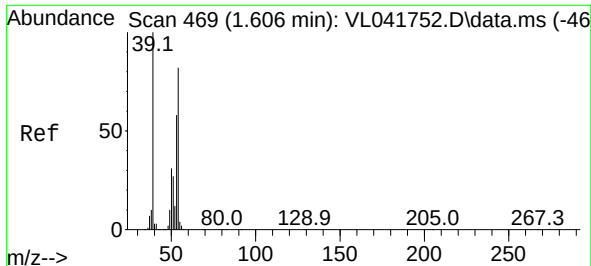
Tgt Ion: 45 Resp: 8754
Ion Ratio Lower Upper
45 100
46 37.5 16.4 65.8



#15
Acetone
Concen: 3.112 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 43 Resp: 46647
Ion Ratio Lower Upper
43 100
58 21.2 19.7 29.5





#16

1,3-Butadiene

Concen: 0.990 ppbv

RT: 1.606 min Scan# 4

Delta R.T. -0.000 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

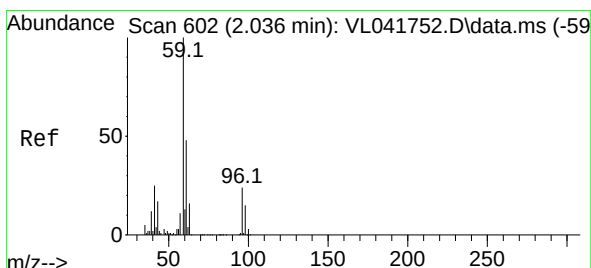
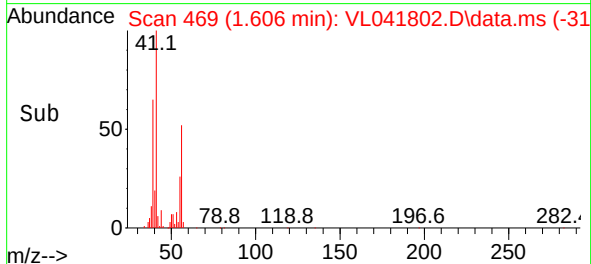
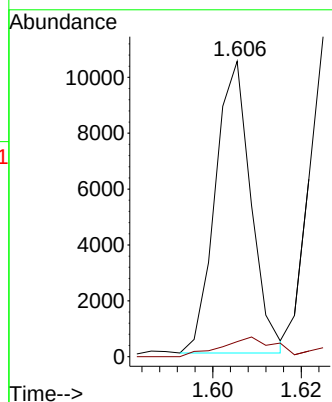
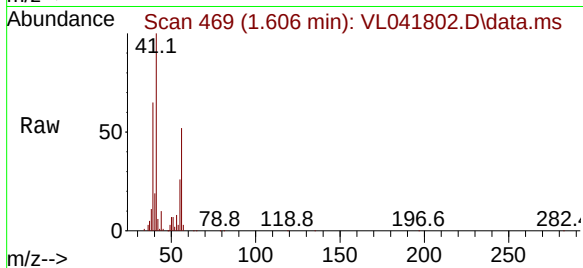
C0AB6

Tgt Ion: 39 Resp: 5842

Ion Ratio Lower Upper

39 100

54 13.5 58.4 87.6#



#17

tert-Butyl alcohol

Concen: 0.518 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL041802.D

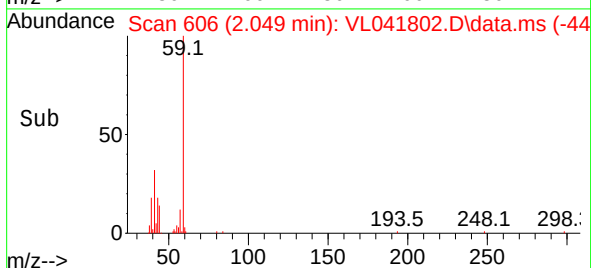
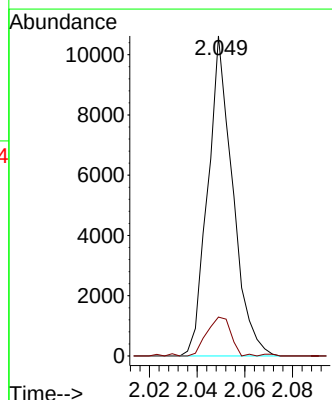
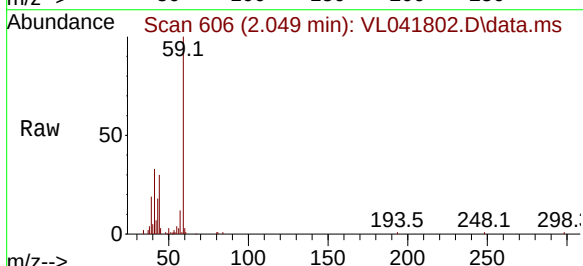
Acq: 18 Dec 2024 19:58

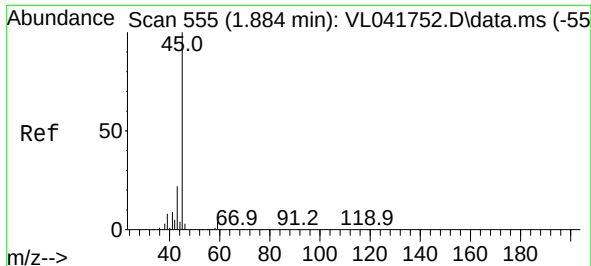
Tgt Ion: 59 Resp: 7709

Ion Ratio Lower Upper

59 100

57 12.4 8.6 13.0





#19

Isopropyl Alcohol

Concen: 1.285 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

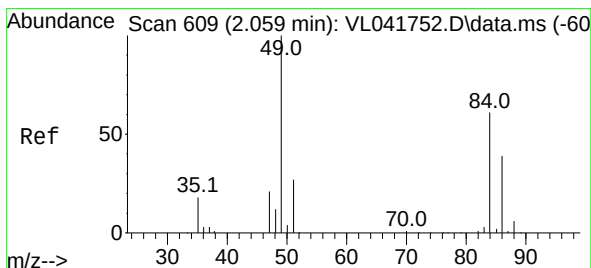
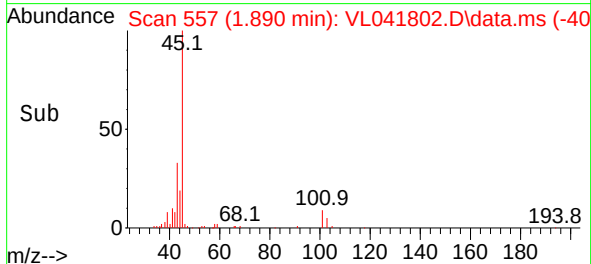
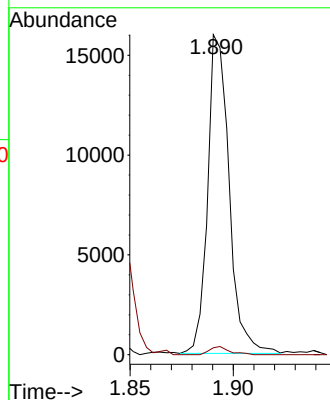
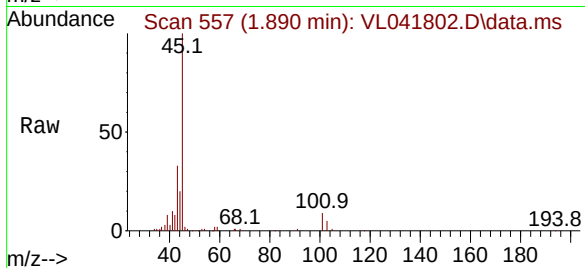
C0AB6

Tgt Ion: 45 Resp: 11560

Ion Ratio Lower Upper

45 100

58 85.6 33.3 49.9#



#20

Methylene Chloride

Concen: 0.323 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Tgt Ion: 84 Resp: 1379

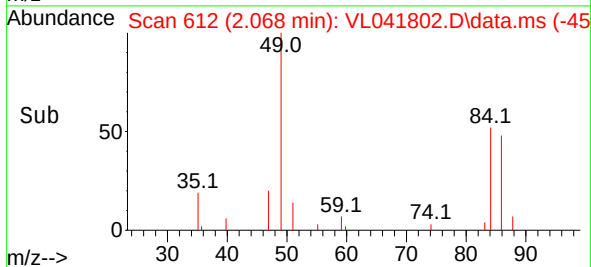
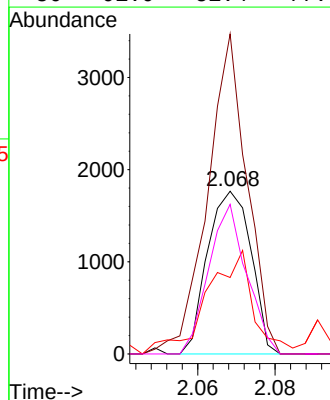
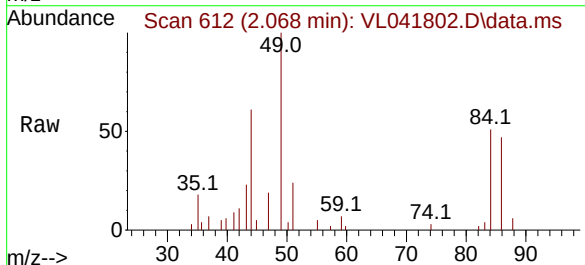
Ion Ratio Lower Upper

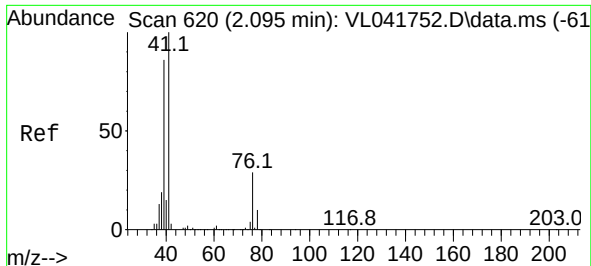
84 100

49 196.6 132.6 198.8

51 38.9 37.6 56.4

86 91.9 51.4 77.0#





#21

Allyl Chloride

Concen: 0.051 ppbv

RT: 2.085 min Scan# 61

Delta R.T. -0.010 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

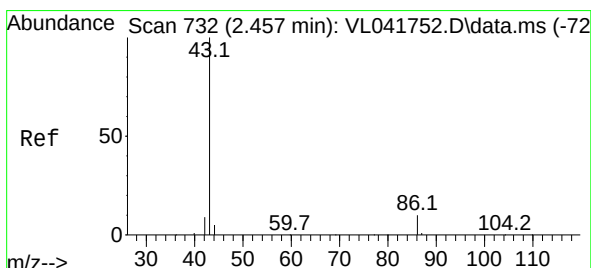
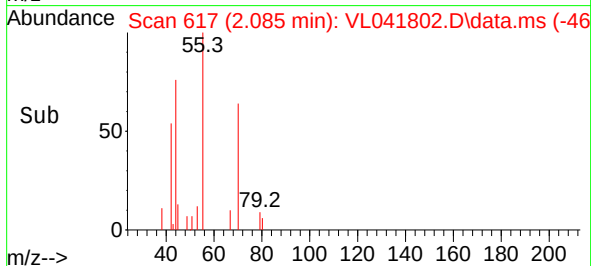
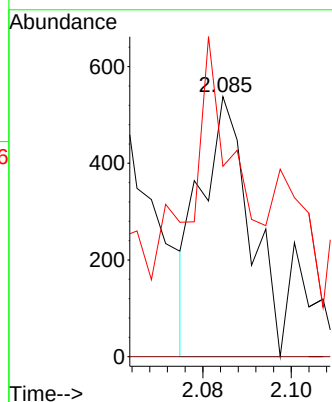
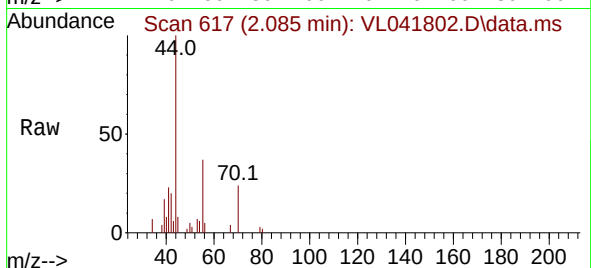
Tgt Ion: 41 Resp: 413

Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 162.7 69.2 103.8#



#23

Vinyl Acetate

Concen: 0.919 ppbv

RT: 2.457 min Scan# 732

Delta R.T. -0.000 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Tgt Ion: 43 Resp: 6394

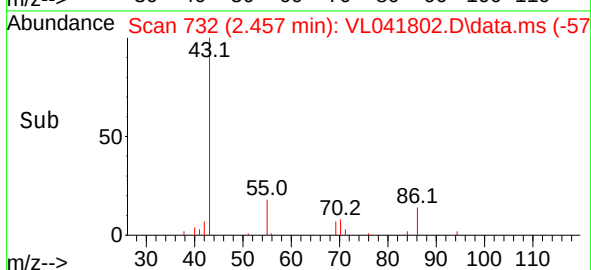
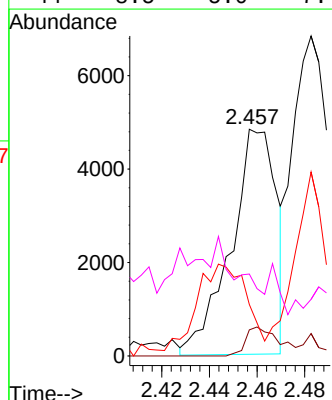
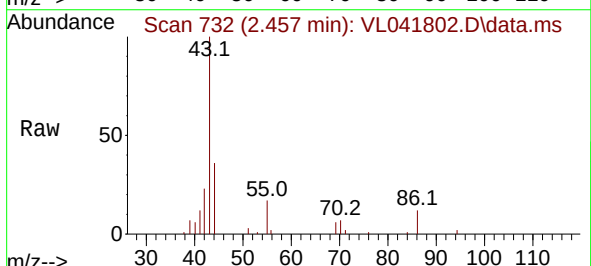
Ion Ratio Lower Upper

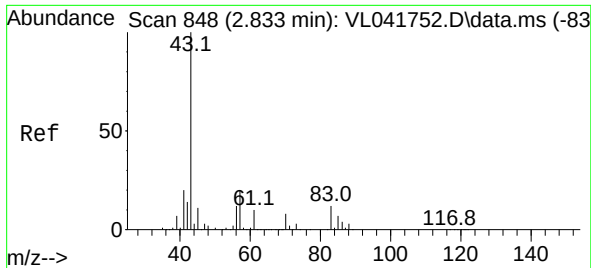
43 100

86 11.9 6.6 10.0#

42 16.0 8.2 12.2#

44 8.5 5.0 7.4#





#25

Ethyl Acetate

Concen: 0.411 ppbv

RT: 2.852 min Scan# 849

Delta R.T. 0.019 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

Tgt Ion: 43 Resp: 11451

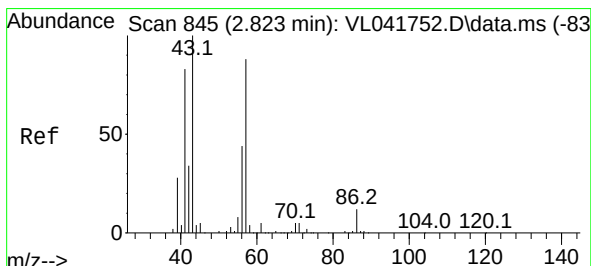
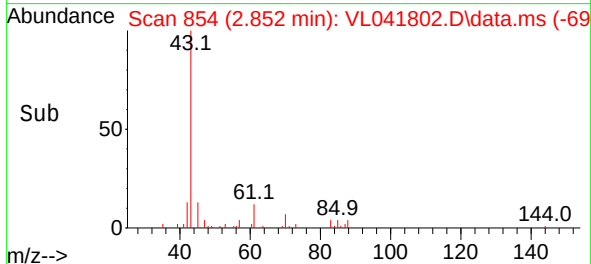
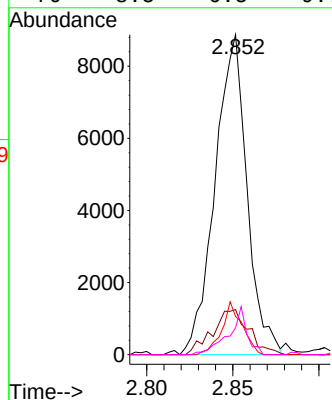
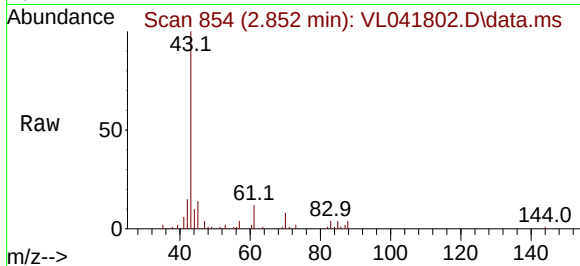
Ion Ratio Lower Upper

43 100

45 16.1 8.1 12.1#

61 10.7 7.0 10.6#

70 8.5 6.5 9.7



#26

Hexane

Concen: 0.256 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.016 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Tgt Ion: 57 Resp: 2712

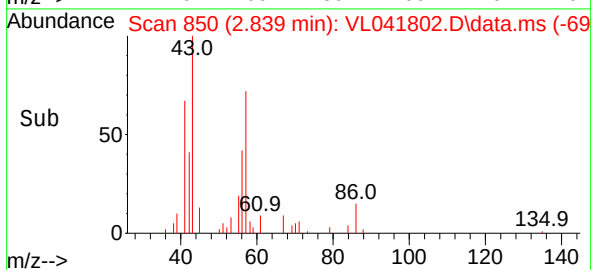
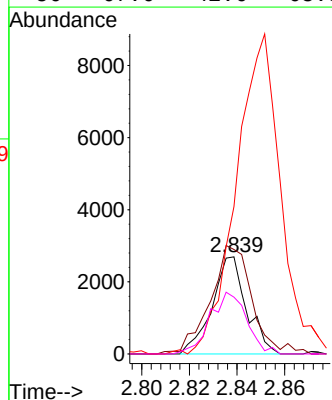
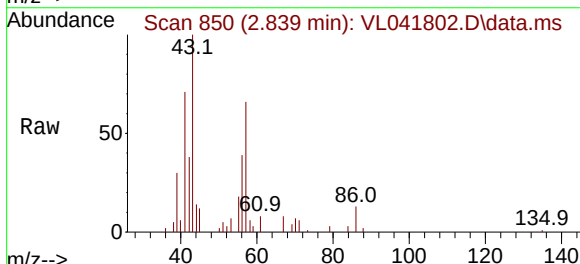
Ion Ratio Lower Upper

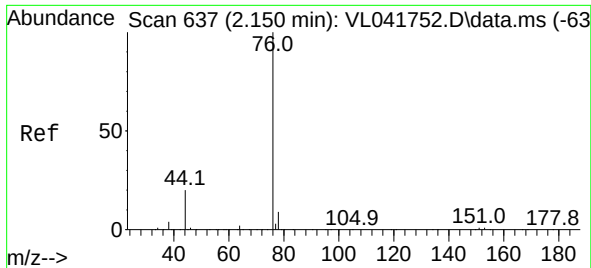
57 100

41 135.1 79.6 119.4#

43 435.5 211.0 316.6#

56 67.6 42.6 63.8#





#27

Carbon Disulfide

Concen: 0.065 ppbv

RT: 2.159 min Scan# 64

Delta R.T. 0.009 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

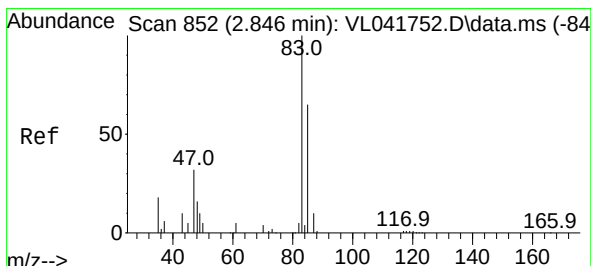
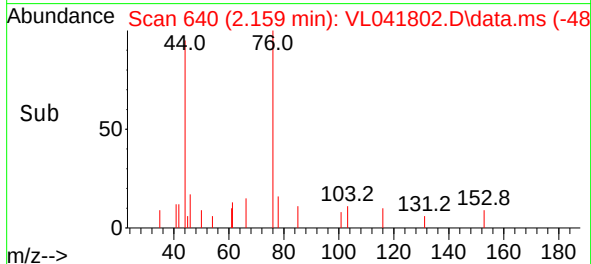
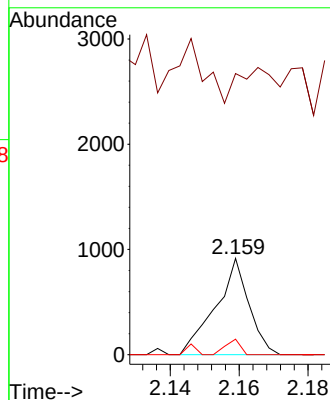
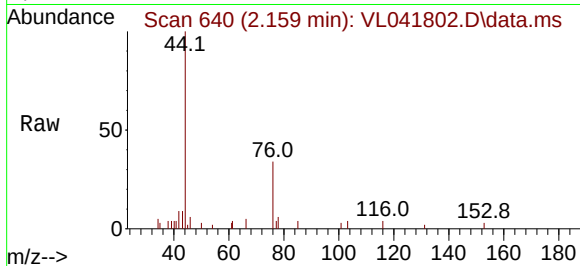
Tgt Ion: 76 Resp: 616

Ion Ratio Lower Upper

76 100

44 936.0 17.6 26.4#

78 26.1 10.2 15.4#



#29

Chloroform

Concen: 0.049 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.009 min

Lab File: VL041802.D

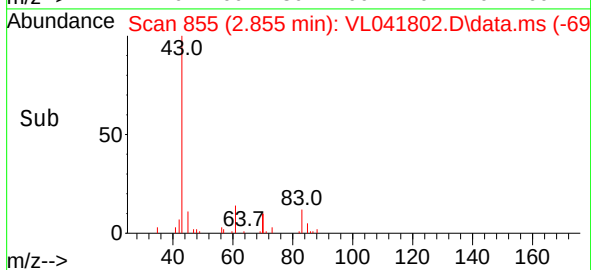
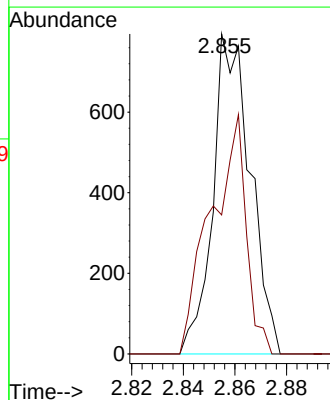
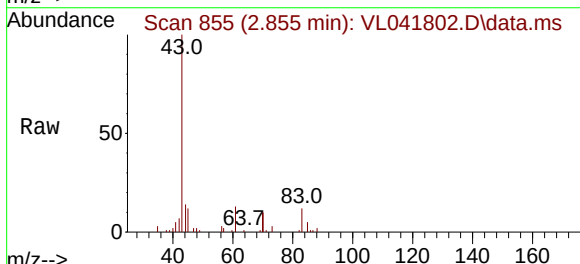
Acq: 18 Dec 2024 19:58

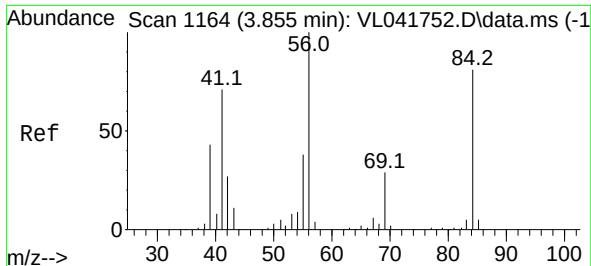
Tgt Ion: 83 Resp: 796

Ion Ratio Lower Upper

83 100

85 43.5 51.8 77.6#





#30

Cyclohexane

Concen: 0.111 ppbv

RT: 3.878 min Scan# 1164

Delta R.T. 0.022 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

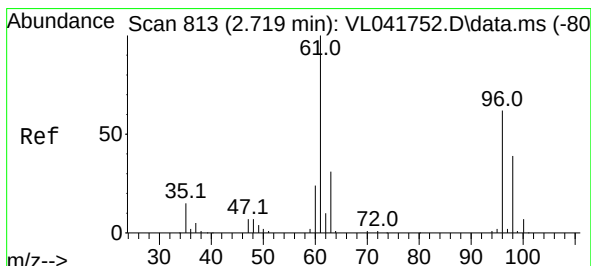
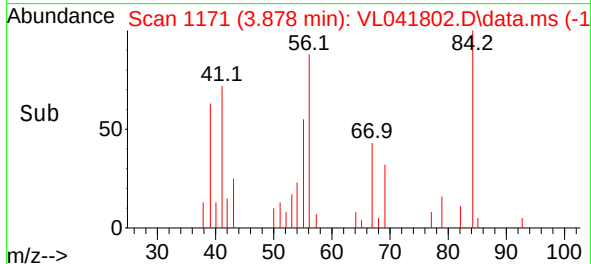
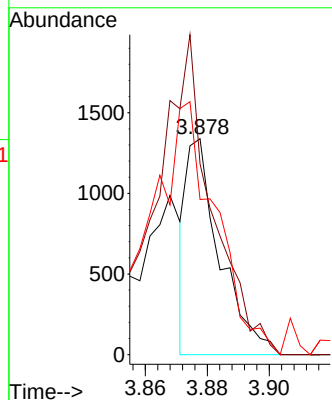
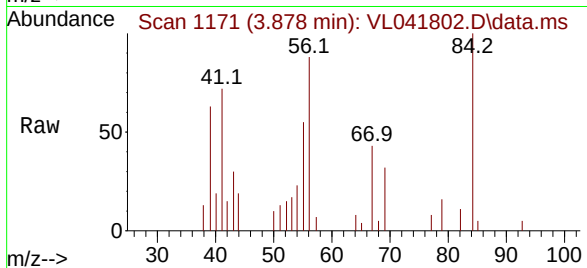
Tgt Ion: 84 Resp: 1001

Ion Ratio Lower Upper

84 100

56 254.3 102.3 153.5#

41 246.5 74.0 111.0#



#31

cis-1,2-Dichloroethene

Concen: 0.112 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.129 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

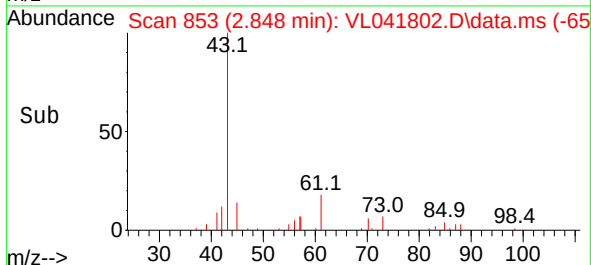
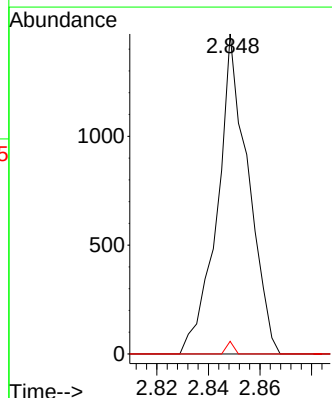
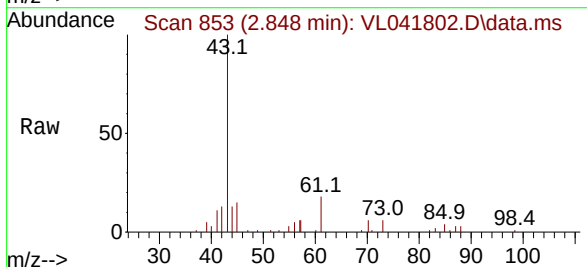
Tgt Ion: 61 Resp: 1221

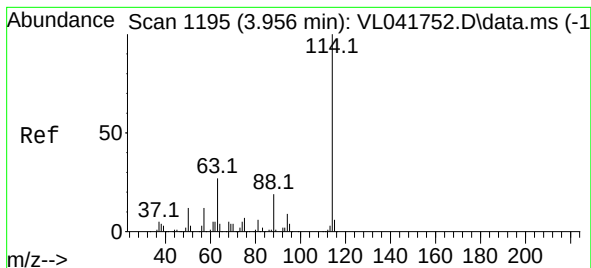
Ion Ratio Lower Upper

61 100

96 0.0 49.7 74.5#

98 3.9 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: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

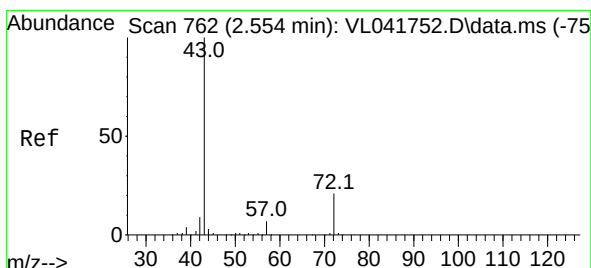
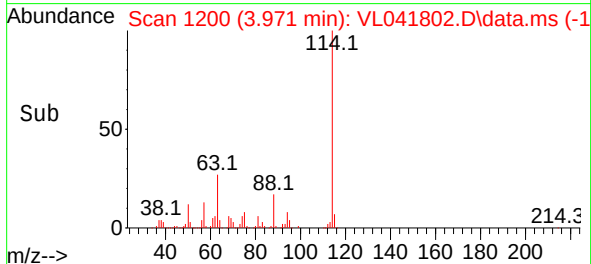
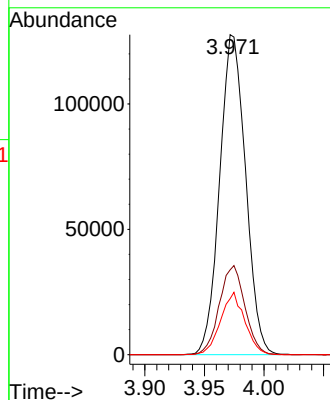
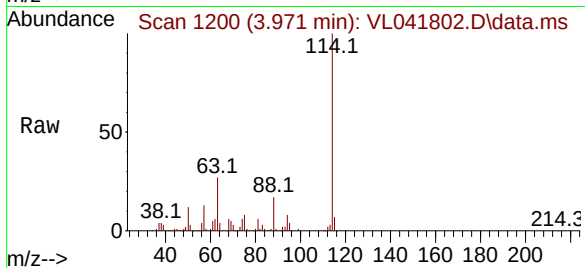
Tgt Ion:114 Resp: 192884

Ion Ratio Lower Upper

114 100

63 27.6 21.8 32.8

88 18.2 14.8 22.2



#34

2-Butanone

Concen: 0.691 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL041802.D

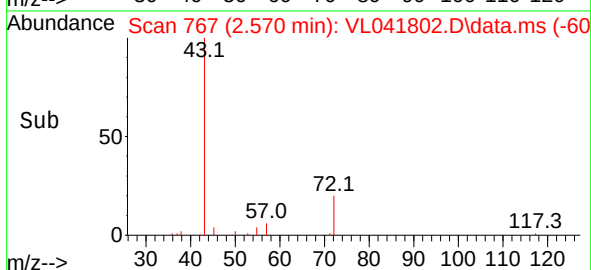
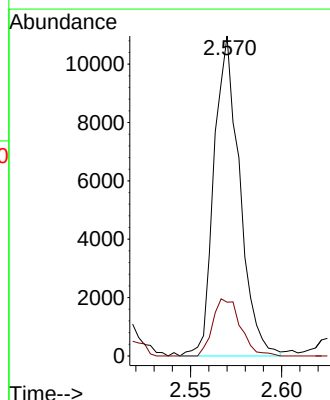
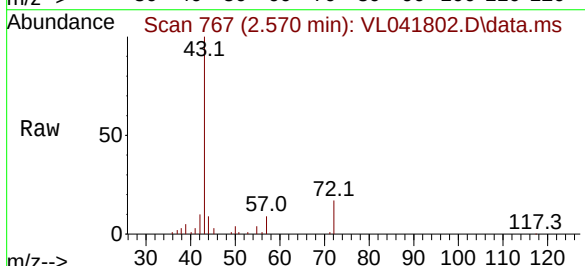
Acq: 18 Dec 2024 19:58

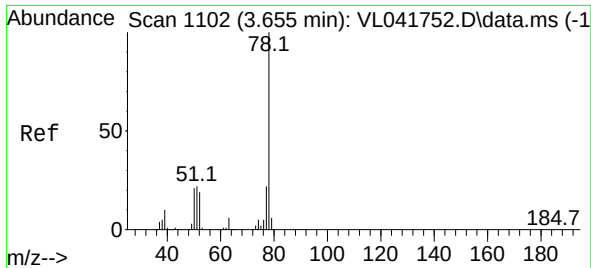
Tgt Ion: 43 Resp: 10728

Ion Ratio Lower Upper

43 100

72 19.2 16.8 25.2

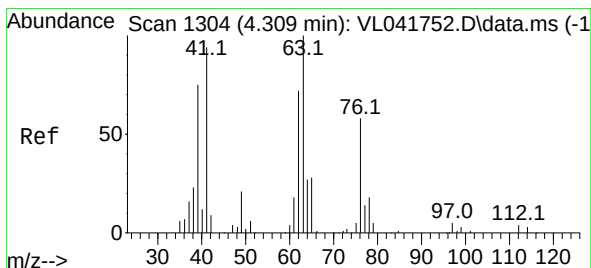
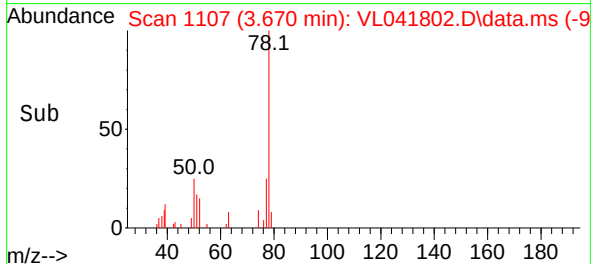
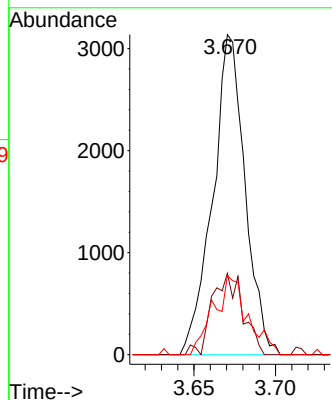
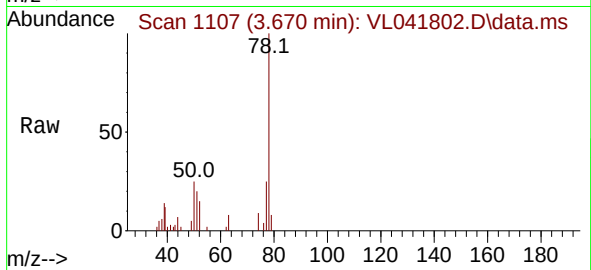




#36
Benzene
Concen: 0.217 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

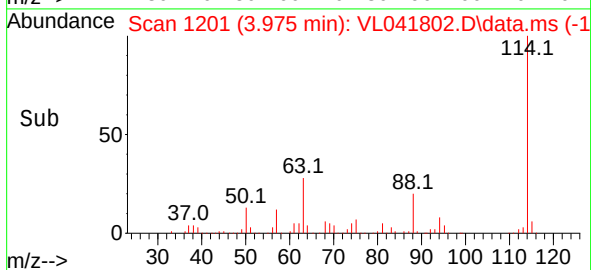
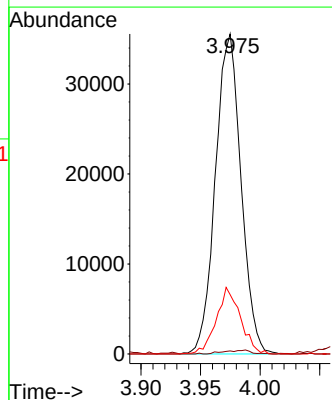
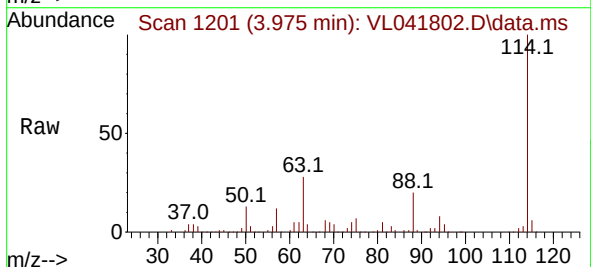
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

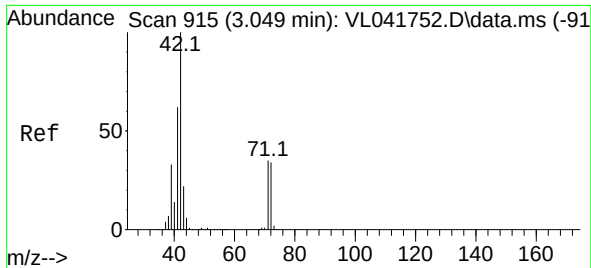
Tgt Ion: 78 Resp: 4321
Ion Ratio Lower Upper
78 100
77 25.4 17.8 26.6
50 24.7 17.2 25.8



#39
1,2-Dichloropropane
Concen: 7.365 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.334 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 63 Resp: 53145
Ion Ratio Lower Upper
63 100
41 0.8 75.3 112.9#
62 18.6 57.3 85.9#





#41

Tetrahydrofuran

Concen: 0.621 ppbv

RT: 3.075 min Scan# 91

Delta R.T. 0.025 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6

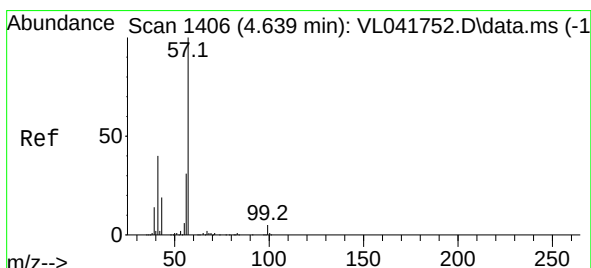
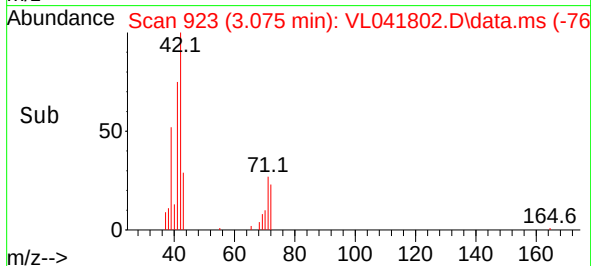
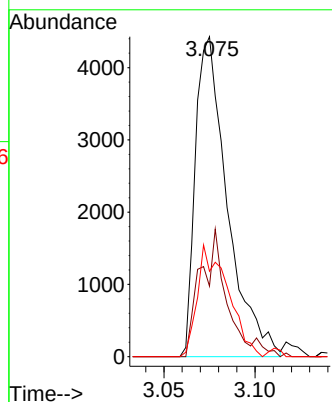
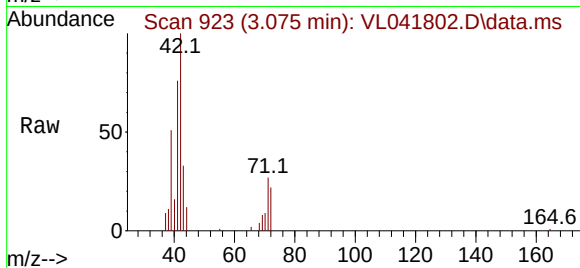
Tgt Ion: 42 Resp: 5402

Ion Ratio Lower Upper

42 100

72 33.8 29.1 43.7

71 34.3 28.4 42.6



#44

2,2,4-Trimethylpentane

Concen: 0.049 ppbv

RT: 4.661 min Scan# 1413

Delta R.T. 0.022 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

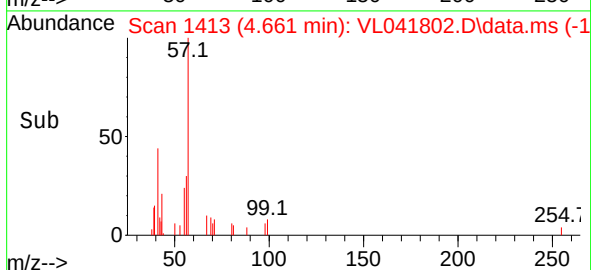
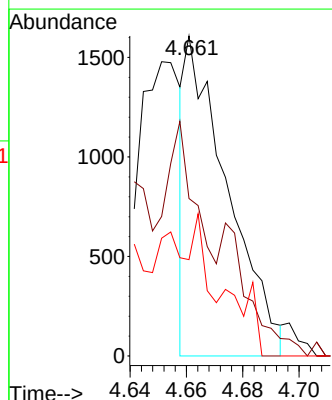
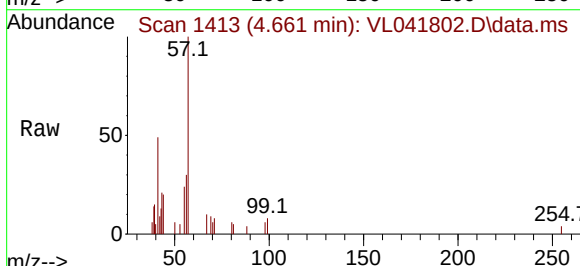
Tgt Ion: 57 Resp: 1670

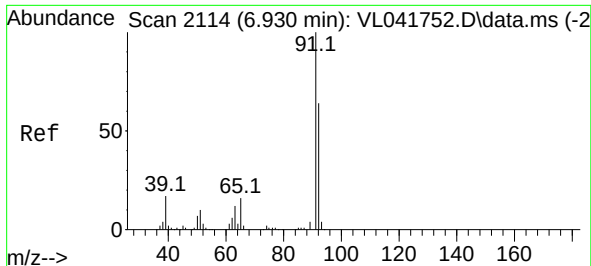
Ion Ratio Lower Upper

57 100

41 172.5 30.7 46.1#

56 119.9 25.4 38.0#





#53

Toluene

Concen: 3.631 ppbv

RT: 6.956 min Scan# 2114

Delta R.T. 0.025 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

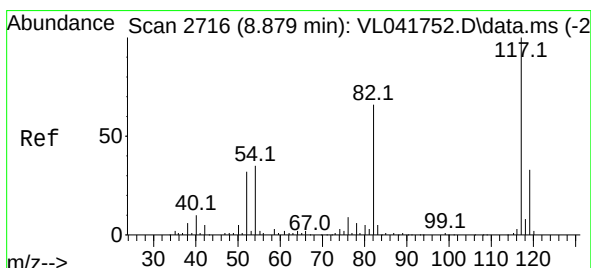
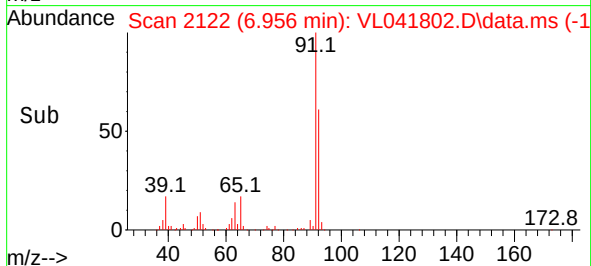
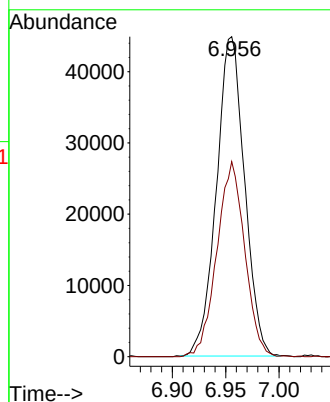
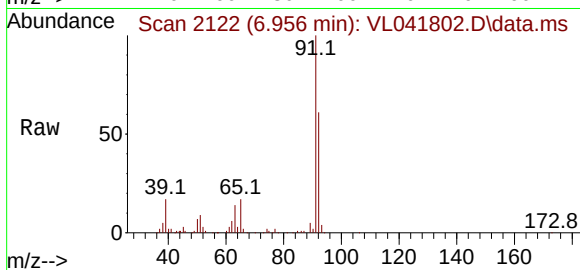
C0AB6

Tgt Ion: 91 Resp: 82132

Ion Ratio Lower Upper

91 100

92 60.6 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: VL041802.D

Acq: 18 Dec 2024 19:58

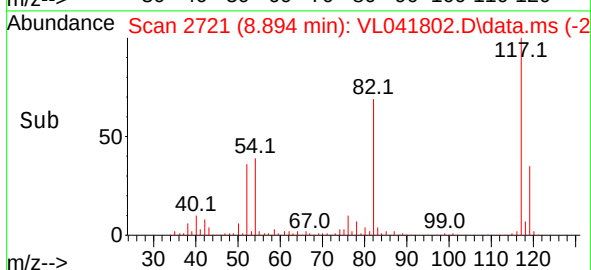
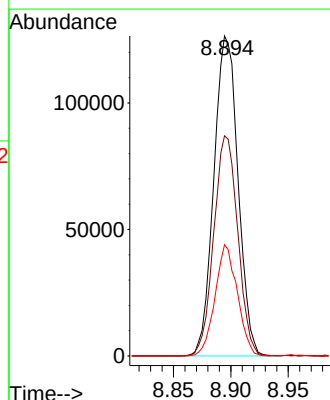
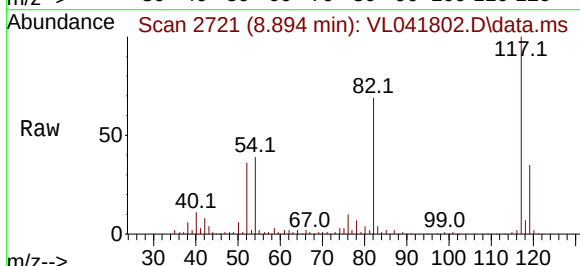
Tgt Ion: 117 Resp: 185181

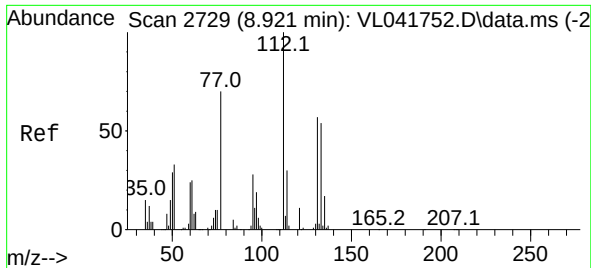
Ion Ratio Lower Upper

117 100

82 68.5 53.8 80.8

119 32.1 26.7 40.1

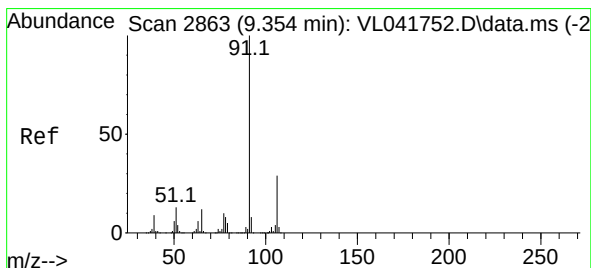
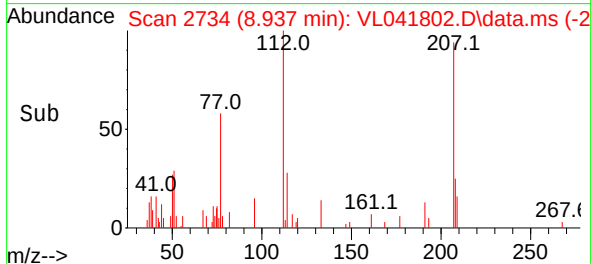
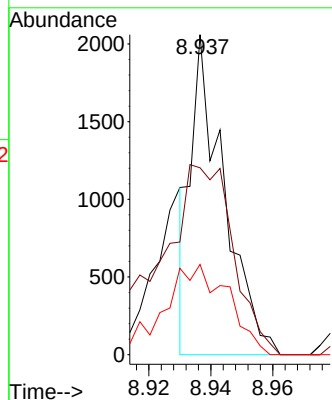
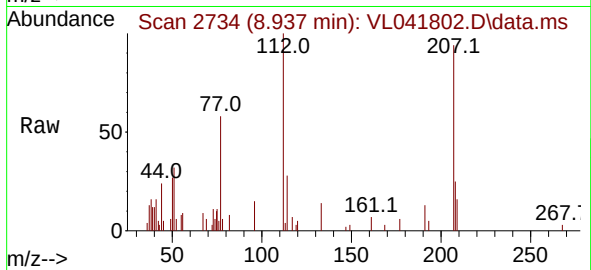




#57
Chlorobenzene
Concen: 0.080 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

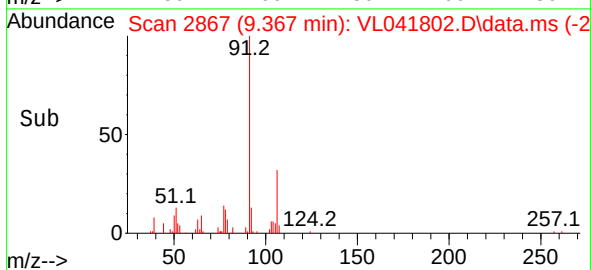
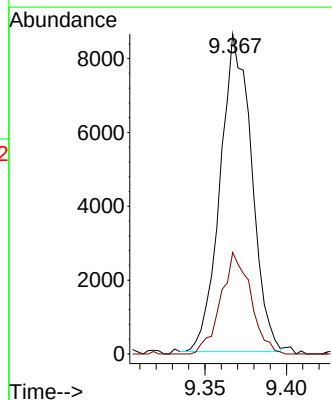
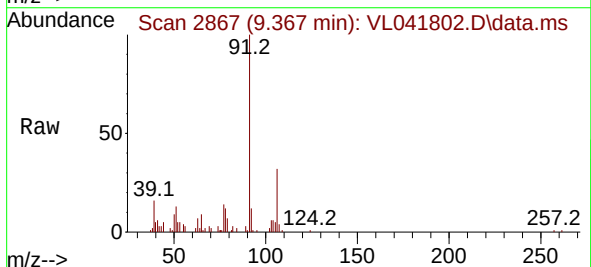
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

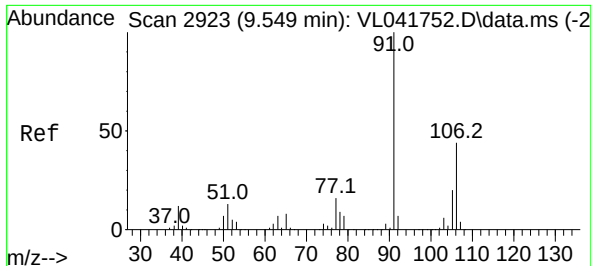
Tgt Ion:112 Resp: 1507
Ion Ratio Lower Upper
112 100
77 58.4 57.4 86.0
114 28.2 27.4 33.4



#58
Ethyl Benzene
Concen: 0.346 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 91 Resp: 11534
Ion Ratio Lower Upper
91 100
106 31.9 23.5 35.3





#59

m/p-Xylene

Concen: 0.312 ppbv

RT: 9.564 min Scan# 2923

Delta R.T. 0.016 min

Lab File: VL041802.D

Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

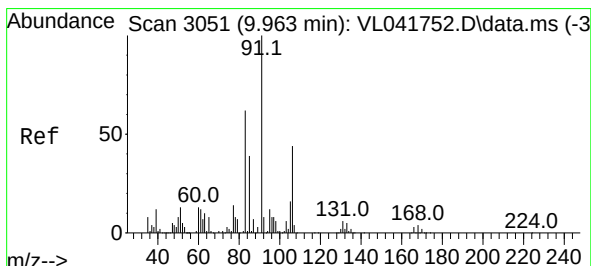
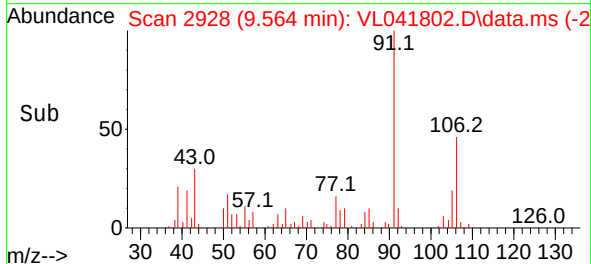
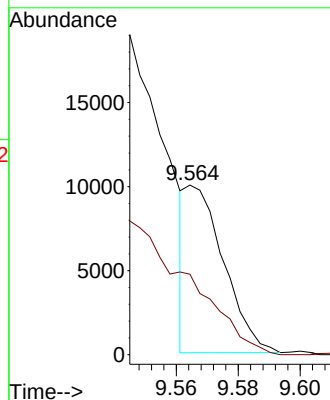
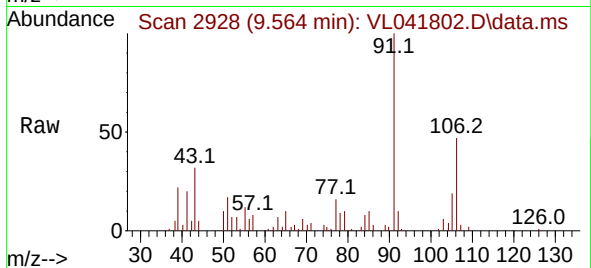
C0AB6

Tgt Ion: 91 Resp: 8373

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.499 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.016 min

Lab File: VL041802.D

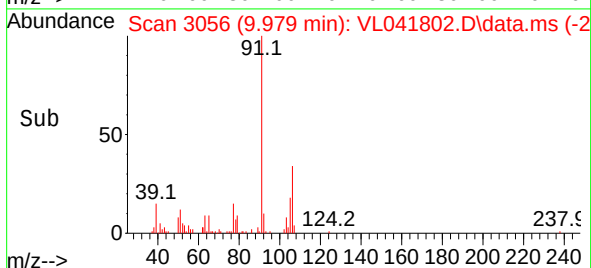
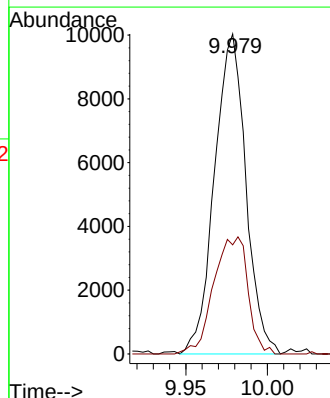
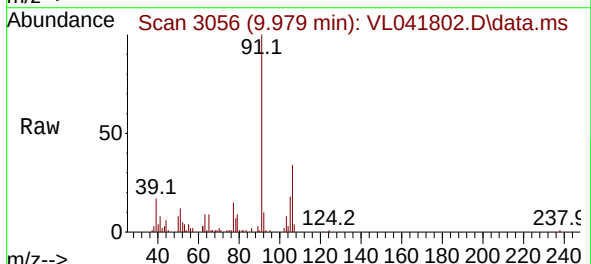
Acq: 18 Dec 2024 19:58

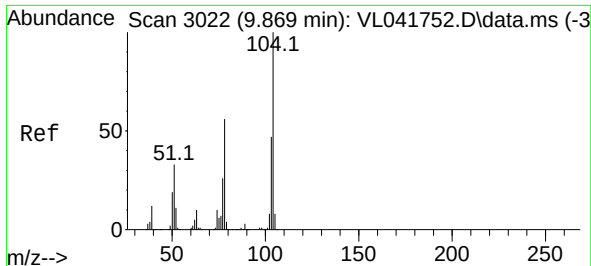
Tgt Ion: 91 Resp: 13407

Ion Ratio Lower Upper

91 100

106 39.9 21.1 63.4

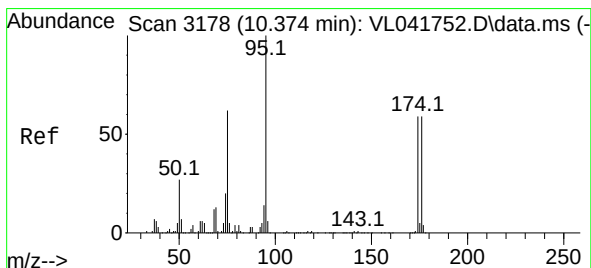
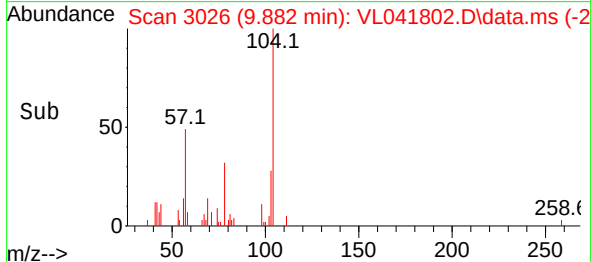
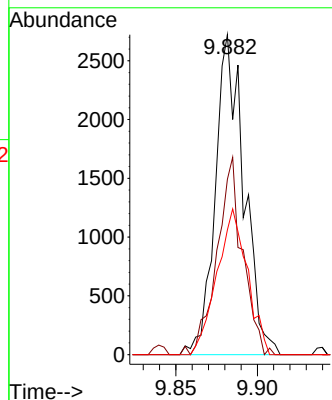
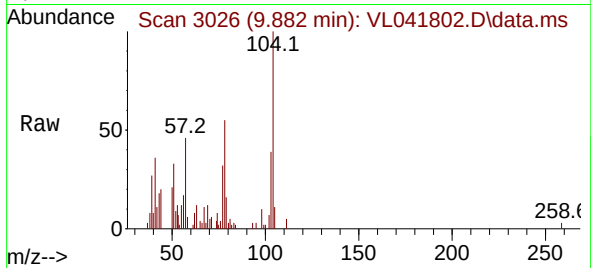




#61
Styrene
Concen: 0.287 ppbv
RT: 9.882 min Scan# 3022
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

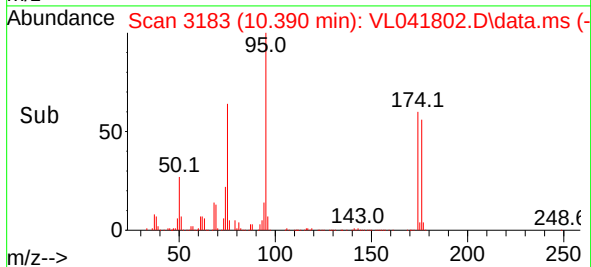
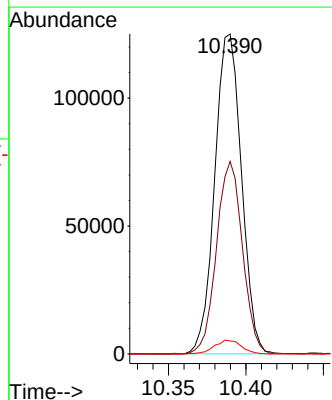
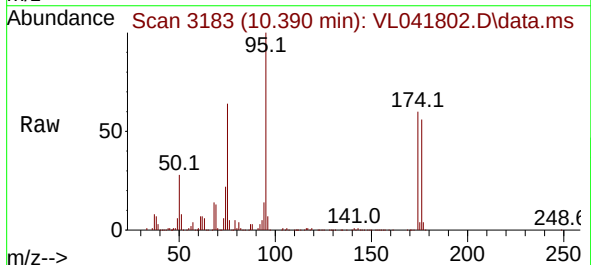
Instrument :
MSVOA_L
ClientSampleId :
C0AB6

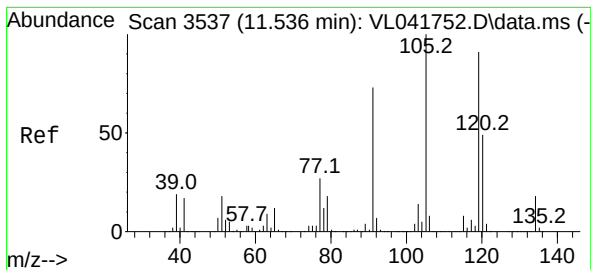
Tgt Ion:104 Resp: 3334
Ion Ratio Lower Upper
104 100
78 55.8 43.8 65.6
103 48.0 37.8 56.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.722 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 95 Resp: 150031
Ion Ratio Lower Upper
95 100
174 58.6 47.6 71.4
175 4.4 3.7 5.5





#74

1,2,4-Trimethylbenzene

Concen: 0.069 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL041802.D

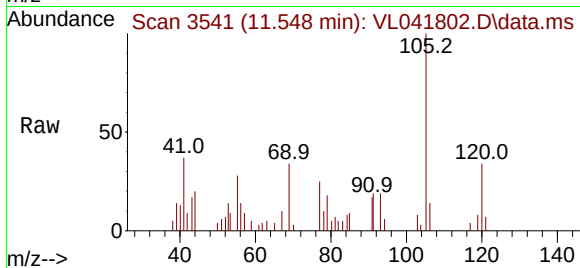
Acq: 18 Dec 2024 19:58

Instrument :

MSVOA_L

ClientSampleId :

C0AB6



Tgt Ion:105 Resp: 1962

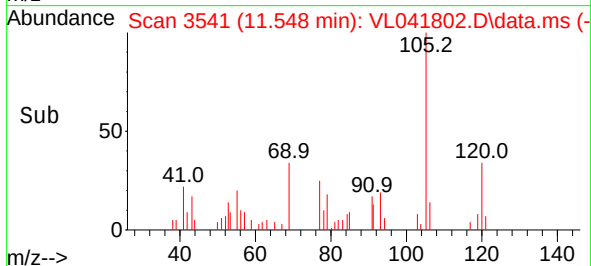
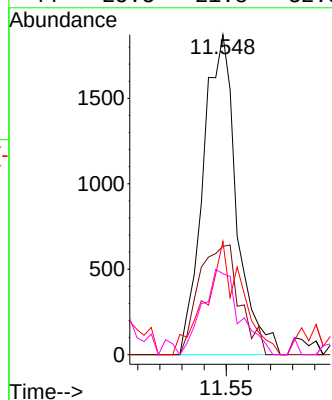
Ion Ratio Lower Upper

105 100

120 33.9 39.0 58.4#

91 35.4 58.1 87.1#

77 25.3 21.8 32.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041803.D
 Acq On : 18 Dec 2024 20:32
 Operator : SY/MD
 Sample : P5294-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB7

Quant Time: Dec 19 07:59:07 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 07:32:09 2024
 Response via : Initial Calibration

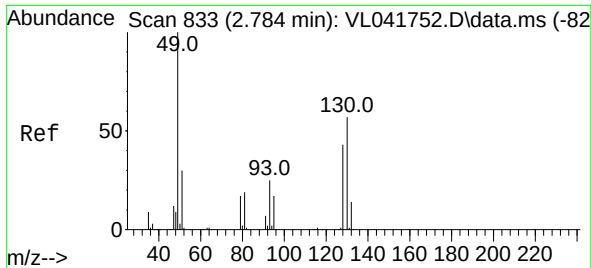
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	76658	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	187828	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	164998	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	139994	10.182	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	4836	0.355	ppbv	99
3) Chlorodifluoromethane	1.470	51	9706	0.776	ppbv #	77
4) Chloromethane	1.534	50	3556	0.666	ppbv #	78
9) Propene	1.563	41	26125	4.821	ppbv	94
10) Heptane	4.994	43	625	0.045	ppbv #	29
11) Trichlorofluoromethane	1.884	101	2898	0.200	ppbv #	80
12) 1,1,2-Trichlorotrifluo...	2.146	101	718	0.065	ppbv	95
13) Ethanol	1.732	45	1977904	4408.380	ppbv	99
15) Acetone	1.839	43	128822	8.637	ppbv #	89
16) 1,3-Butadiene	1.625	39	163629	27.860	ppbv #	15
17) tert-Butyl alcohol	2.049	59	9710	0.656	ppbv #	71
19) Isopropyl Alcohol	1.890	45	155744	17.402	ppbv #	59
20) Methylene Chloride	2.065	84	1921	0.452	ppbv #	81
21) Allyl Chloride	1.968	41	36262	4.483	ppbv #	53
23) Vinyl Acetate	2.460	43	8413	1.215	ppbv #	89
25) Ethyl Acetate	2.845	43	4200	0.151	ppbv #	77
26) Hexane	2.835	57	3564	0.338	ppbv #	70
29) Chloroform	2.855	83	4772	0.297	ppbv #	82
30) Cyclohexane	3.865	84	652	0.073	ppbv #	44
31) cis-1,2-Dichloroethene	2.845	61	390	0.036	ppbv #	26
34) 2-Butanone	2.570	43	6833	0.452	ppbv	99
35) Carbon Tetrachloride	3.774	117	585	0.044	ppbv #	72
36) Benzene	3.674	78	2492	0.128	ppbv	95
39) 1,2-Dichloropropane	3.968	63	52198	7.428	ppbv #	18
41) Tetrahydrofuran	3.075	42	575	0.068	ppbv #	56
44) 2,2,4-Trimethylpentane	4.654	57	3319	0.100	ppbv #	39
53) Toluene	6.949	91	13160	0.597	ppbv	99
58) Ethyl Benzene	9.367	91	2474	0.083	ppbv #	82
59) m/p-Xylene	9.564	91	1382	0.058	ppbv #	100
60) o-Xylene	9.976	91	2612	0.109	ppbv	97
61) Styrene	9.875	104	373	0.036	ppbv #	47
71) 2-Chlorotoluene	10.872	91	14981	0.545	ppbv #	46
73) 1,3,5-Trimethylbenzene	11.218	105	768	0.033	ppbv #	63
74) 1,2,4-Trimethylbenzene	11.545	105	2331	0.092	ppbv #	54
75) 1,3-Dichlorobenzene	11.678	146	981	0.061	ppbv #	58
76) 1,4-Dichlorobenzene	11.678	146	981	0.062	ppbv #	57
79) Naphthalene	13.516	128	894	0.051	ppbv #	86

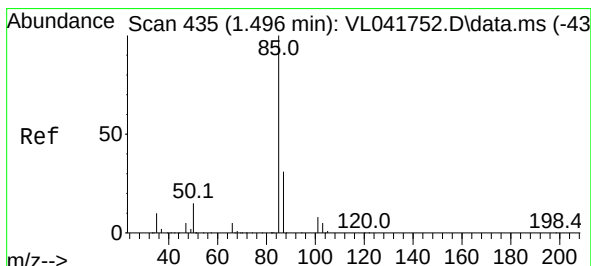
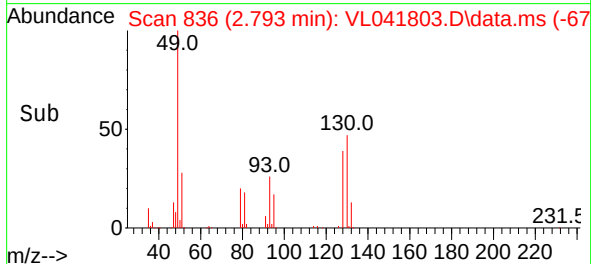
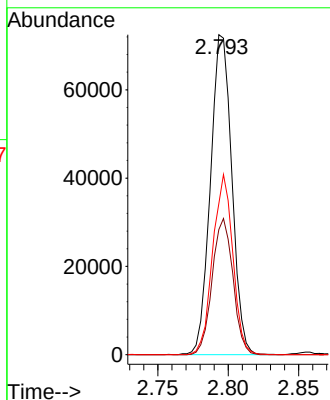
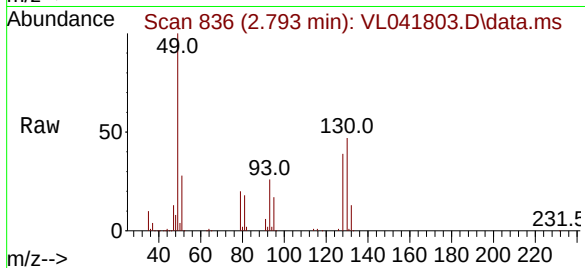
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 836
Delta R.T. 0.009 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

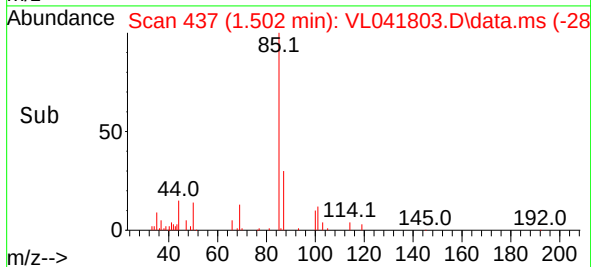
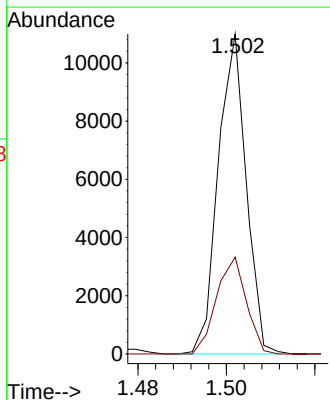
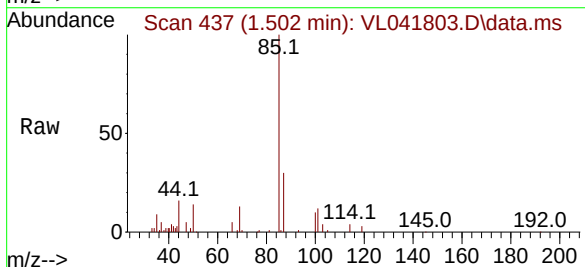
Instrument :
MSVOA_L
ClientSampleId :
C0AB7

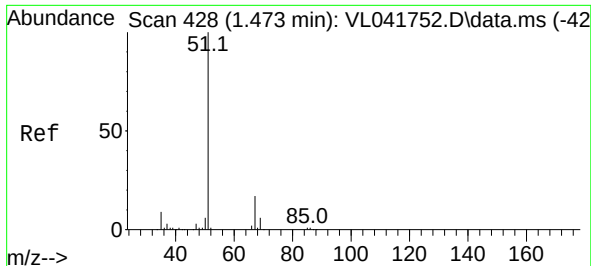
Tgt Ion: 49 Resp: 76658
Ion Ratio Lower Upper
49 100
128 41.2 21.6 64.6
130 52.9 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.355 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion: 85 Resp: 4836
Ion Ratio Lower Upper
85 100
87 30.2 24.5 36.7

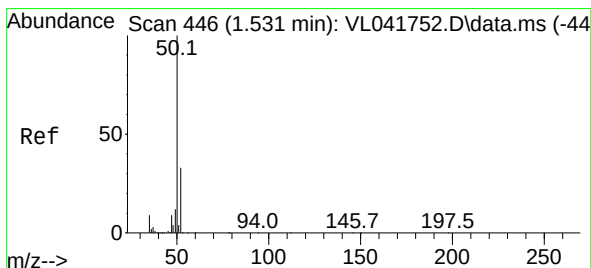
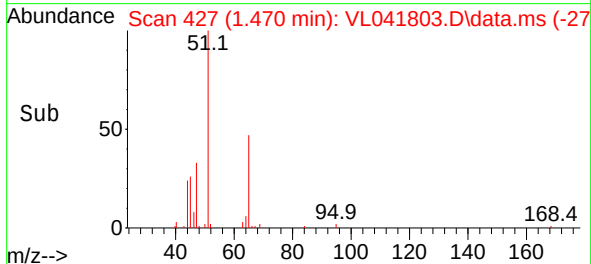
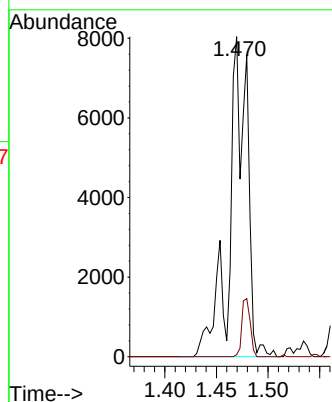
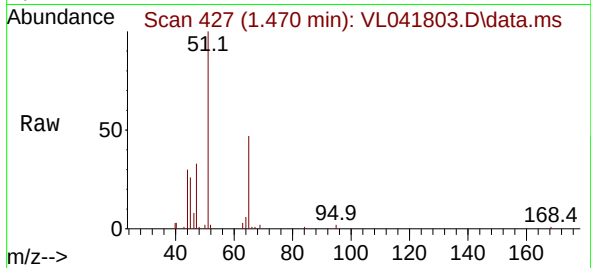




#3
Chlorodifluoromethane
Concen: 0.776 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

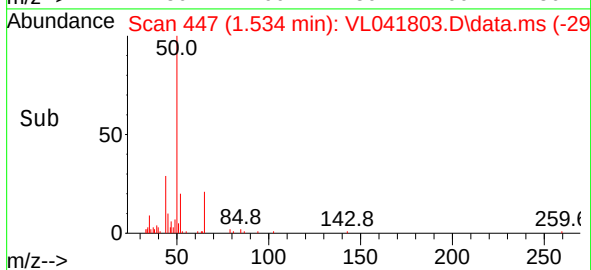
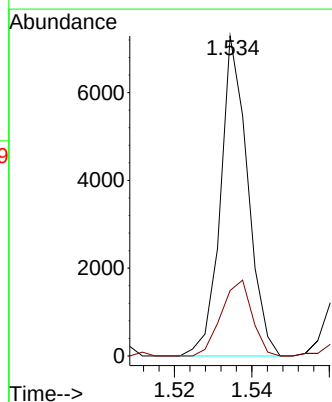
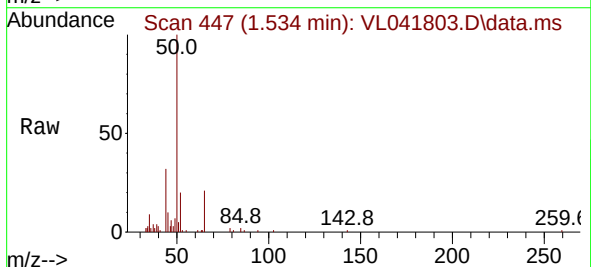
Instrument :
MSVOA_L
ClientSampleId :
C0AB7

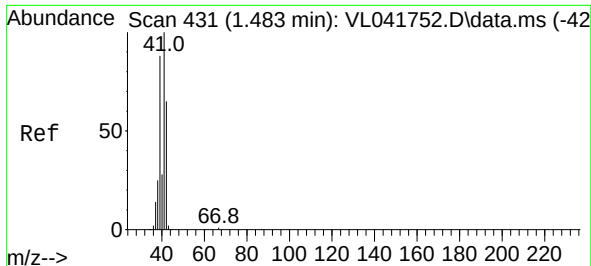
Tgt Ion: 51 Resp: 9706
Ion Ratio Lower Upper
51 100
67 8.4 15.0 22.4#



#4
Chloromethane
Concen: 0.666 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion: 50 Resp: 3556
Ion Ratio Lower Upper
50 100
52 20.5 26.2 39.2#





#9

Propene

Concen: 4.821 ppbv

RT: 1.563 min Scan# 41

Delta R.T. 0.081 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

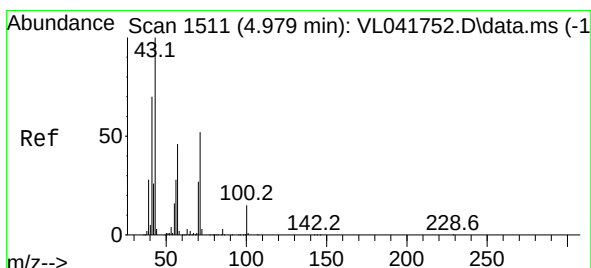
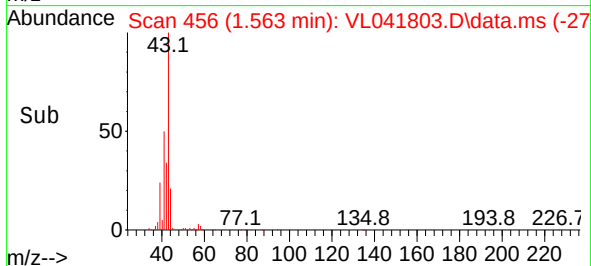
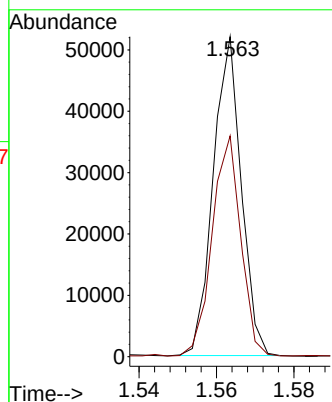
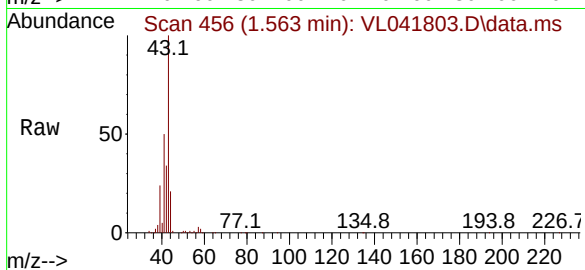
C0AB7

Tgt Ion: 41 Resp: 26125

Ion Ratio Lower Upper

41 100

42 70.6 52.4 78.6



#10

Heptane

Concen: 0.045 ppbv

RT: 4.994 min Scan# 1516

Delta R.T. 0.016 min

Lab File: VL041803.D

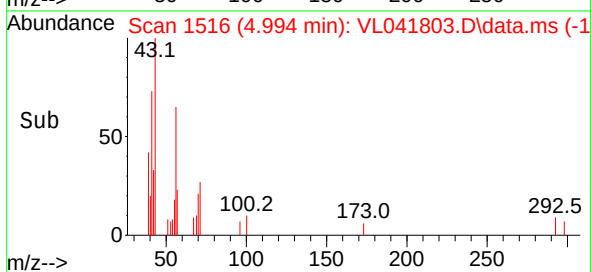
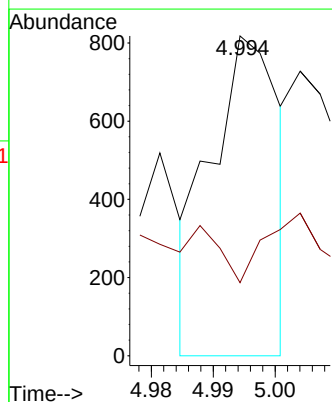
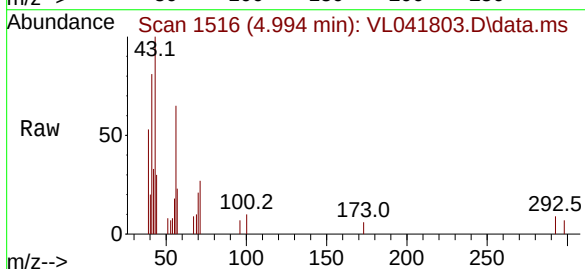
Acq: 18 Dec 2024 20:32

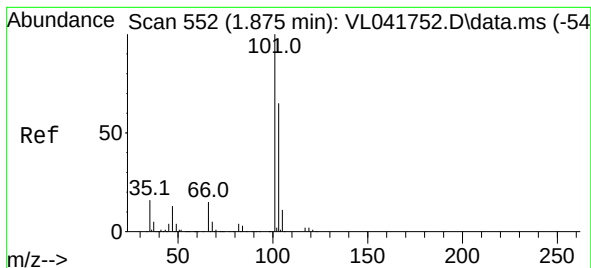
Tgt Ion: 43 Resp: 625

Ion Ratio Lower Upper

43 100

57 0.0 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.200 ppbv

RT: 1.884 min Scan# 51

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

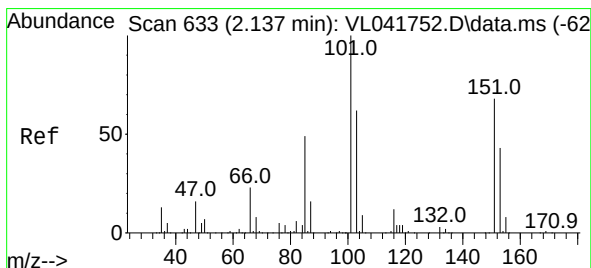
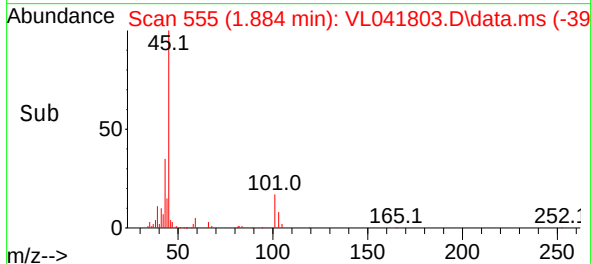
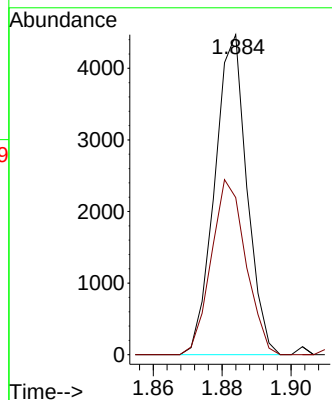
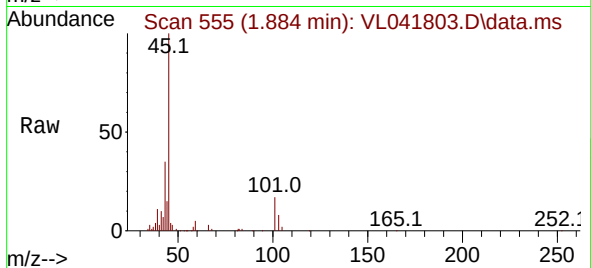
C0AB7

Tgt Ion:101 Resp: 2898

Ion Ratio Lower Upper

101 100

103 49.1 51.8 77.8#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.065 ppbv

RT: 2.146 min Scan# 636

Delta R.T. 0.009 min

Lab File: VL041803.D

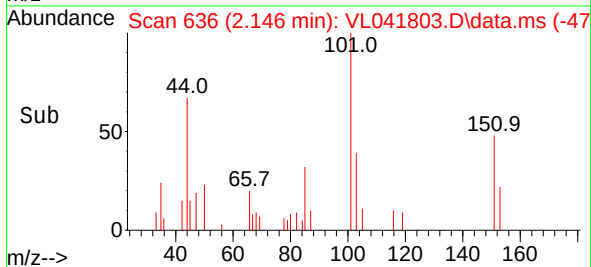
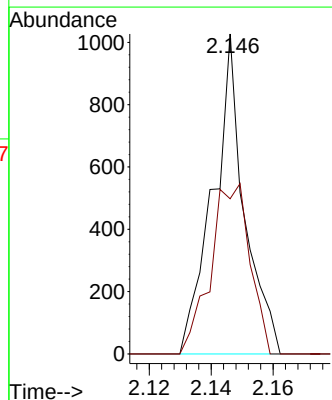
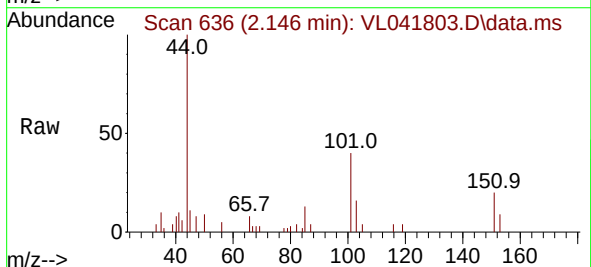
Acq: 18 Dec 2024 20:32

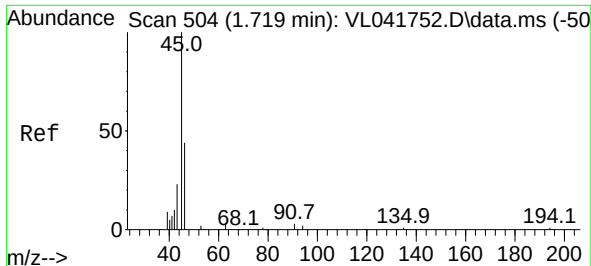
Tgt Ion:101 Resp: 718

Ion Ratio Lower Upper

101 100

151 67.0 56.8 85.2

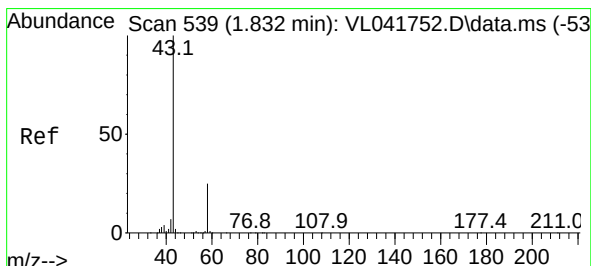
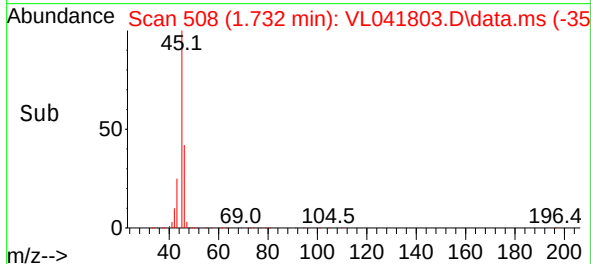
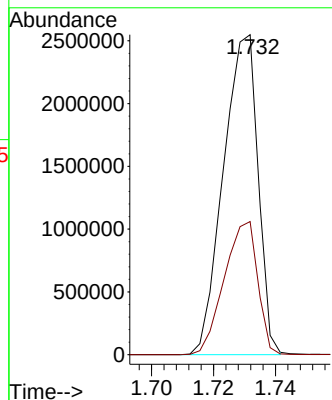
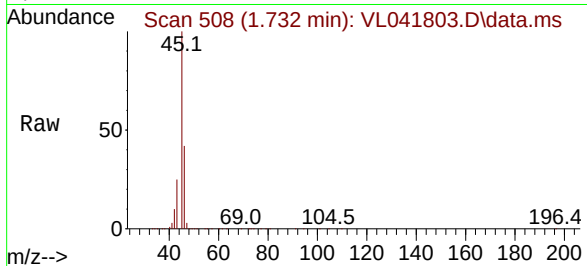




#13
Ethanol
Concen: 4408.380 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

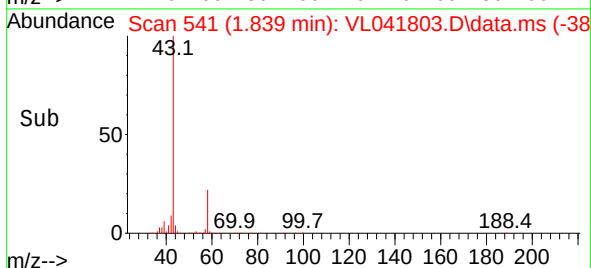
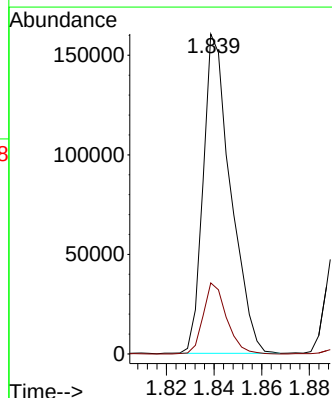
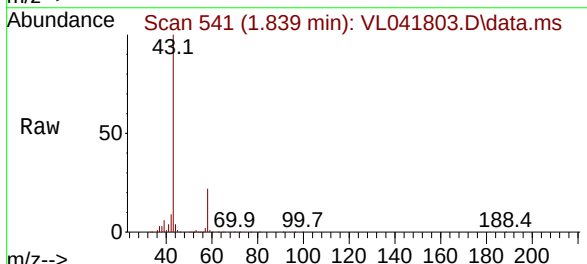
Instrument :
MSVOA_L
ClientSampleId :
C0AB7

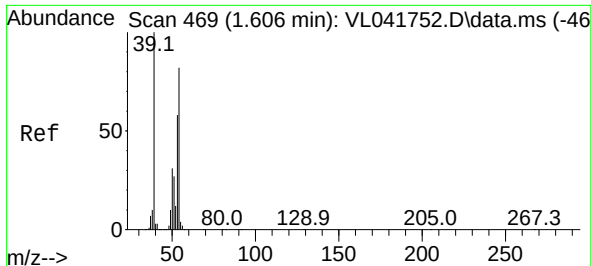
Tgt Ion: 45 Resp: 1977904
Ion Ratio Lower Upper
45 100
46 40.3 16.4 65.8



#15
Acetone
Concen: 8.637 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion: 43 Resp: 128822
Ion Ratio Lower Upper
43 100
58 19.0 19.7 29.5#





#16

1,3-Butadiene

Concen: 27.860 ppbv

RT: 1.625 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

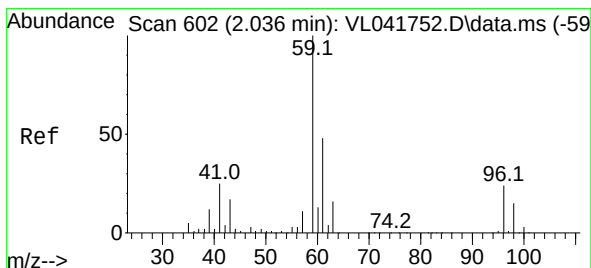
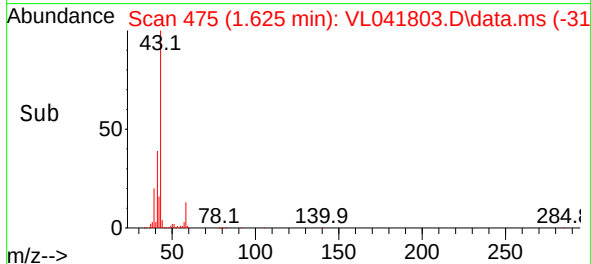
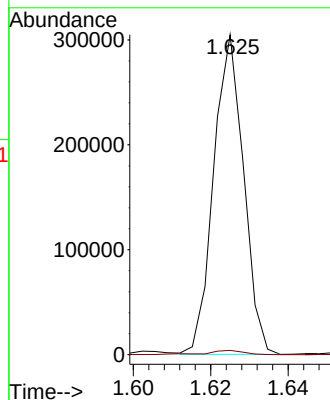
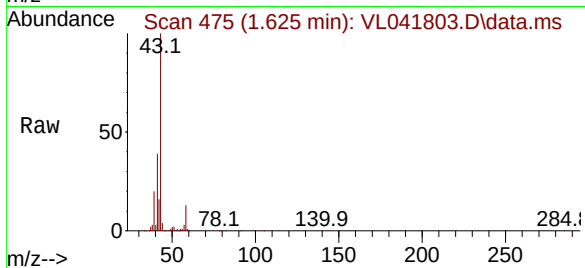
C0AB7

Tgt Ion: 39 Resp: 163629

Ion Ratio Lower Upper

39 100

54 1.8 58.4 87.6#



#17

tert-Butyl alcohol

Concen: 0.656 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL041803.D

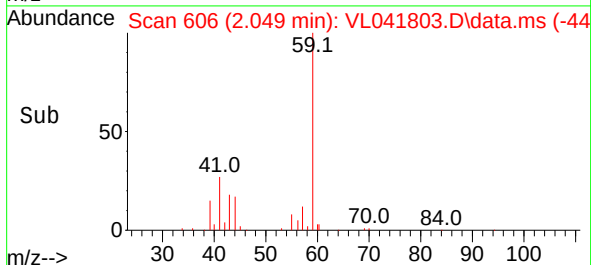
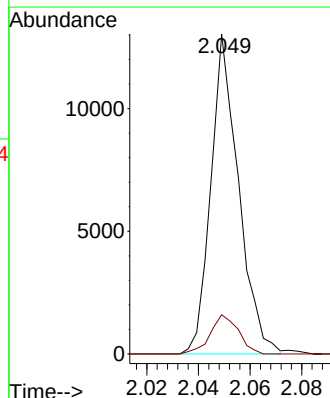
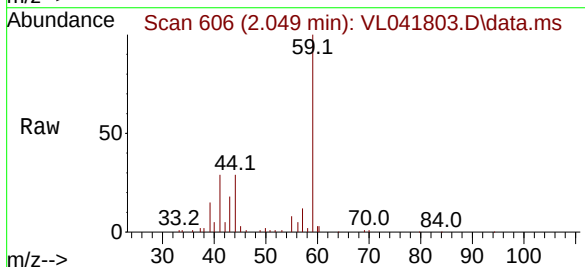
Acq: 18 Dec 2024 20:32

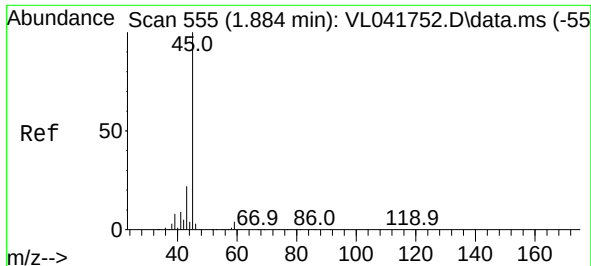
Tgt Ion: 59 Resp: 9710

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 17.402 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

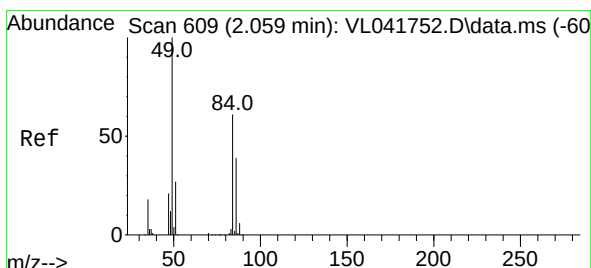
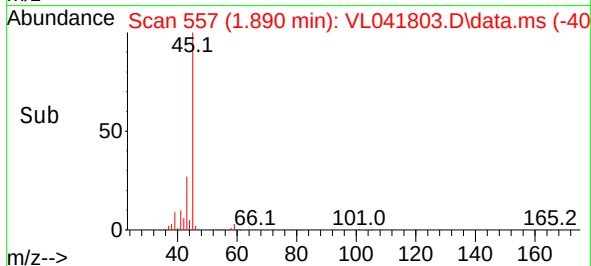
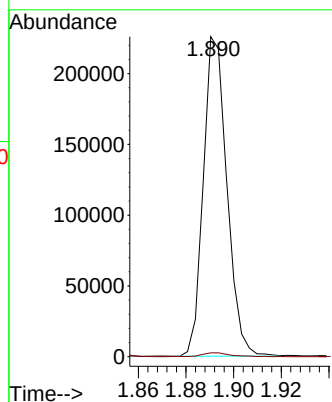
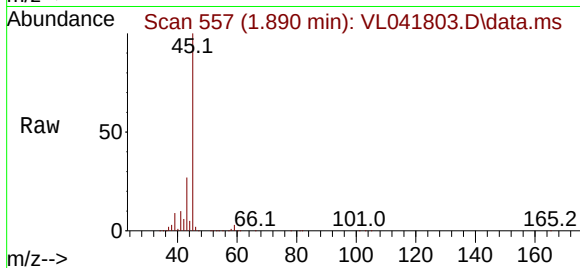
C0AB7

Tgt Ion: 45 Resp: 155744

Ion Ratio Lower Upper

45 100

58 15.7 33.3 49.9#



#20

Methylene Chloride

Concen: 0.452 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Tgt Ion: 84 Resp: 1921

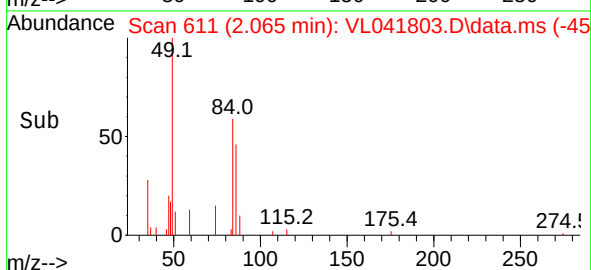
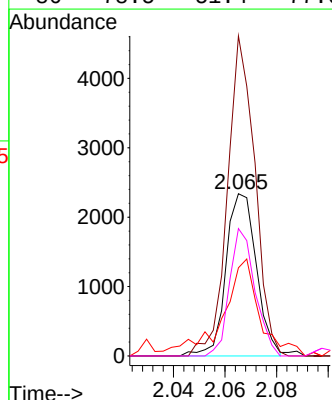
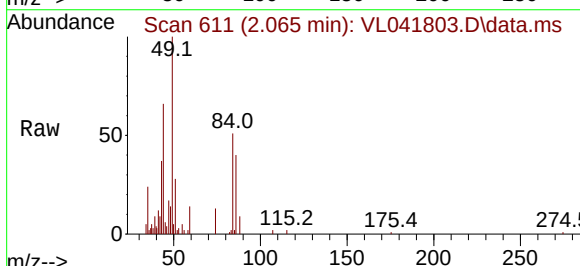
Ion Ratio Lower Upper

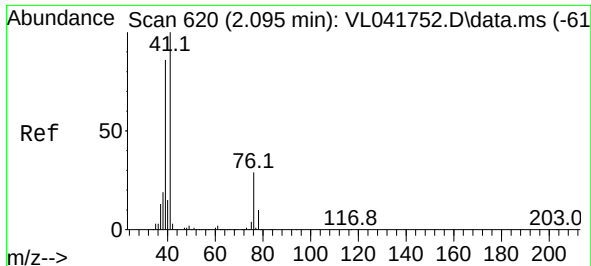
84 100

49 197.2 132.6 198.8

51 48.5 37.6 56.4

86 78.5 51.4 77.0#





#21

Allyl Chloride

Concen: 4.483 ppbv

RT: 1.968 min Scan# 51

Delta R.T. -0.127 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

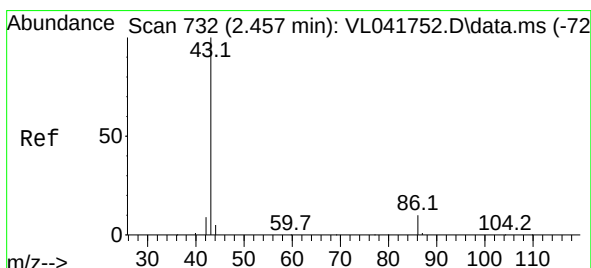
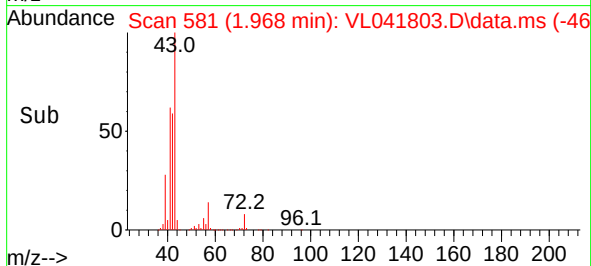
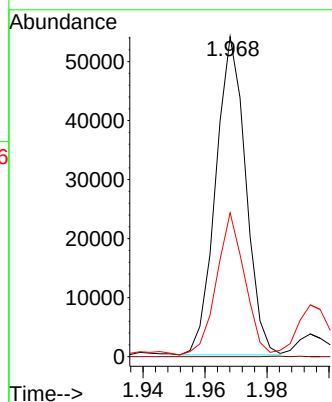
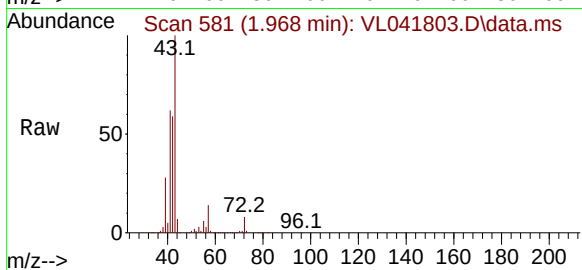
Tgt Ion: 41 Resp: 36262

Ion Ratio Lower Upper

41 100

76 0.6 22.3 33.5#

39 44.9 69.2 103.8#



#23

Vinyl Acetate

Concen: 1.215 ppbv

RT: 2.460 min Scan# 733

Delta R.T. 0.003 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Tgt Ion: 43 Resp: 8413

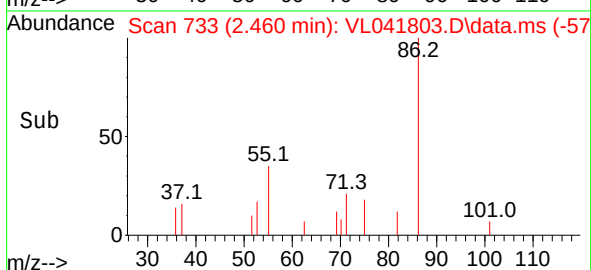
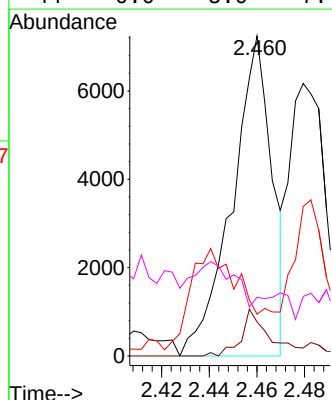
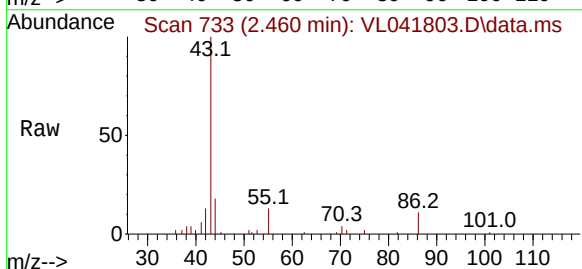
Ion Ratio Lower Upper

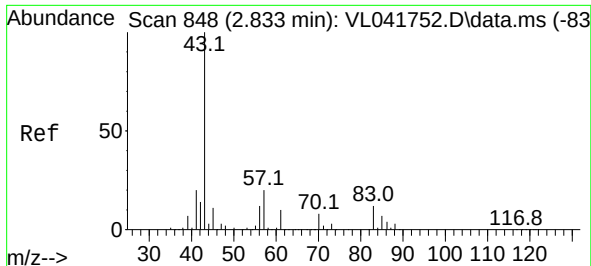
43 100

86 10.7 6.6 10.0#

42 6.0 8.2 12.2#

44 0.0 5.0 7.4#





#25

Ethyl Acetate

Concen: 0.151 ppbv

RT: 2.845 min Scan# 848

Delta R.T. 0.013 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

Tgt Ion: 43 Resp: 4200

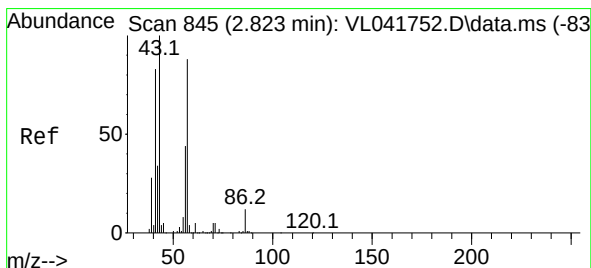
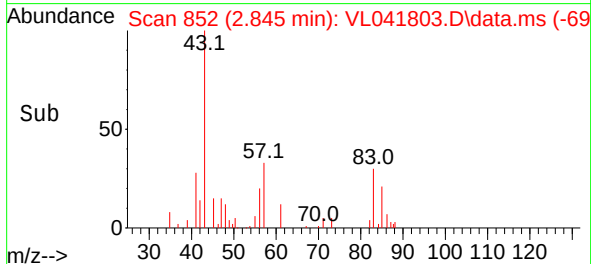
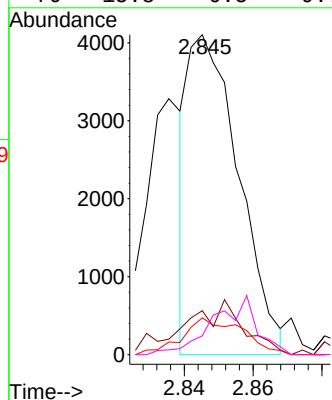
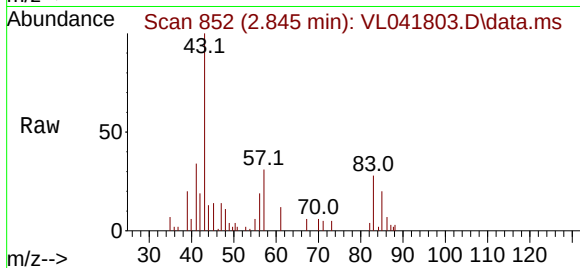
Ion Ratio Lower Upper

43 100

45 22.0 8.1 12.1#

61 13.8 7.0 10.6#

70 15.8 6.5 9.7#



#26

Hexane

Concen: 0.338 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.013 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Tgt Ion: 57 Resp: 3564

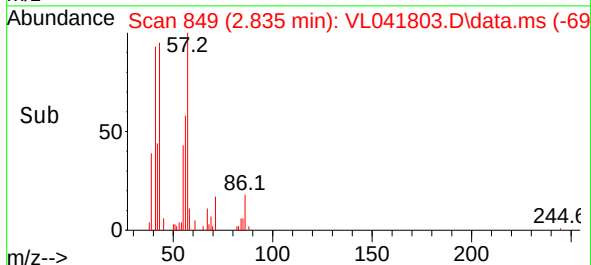
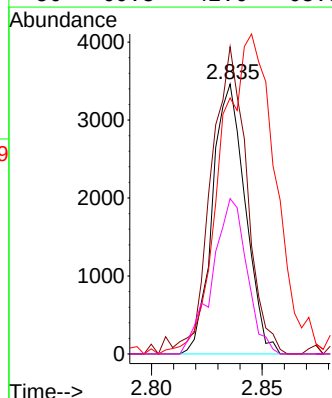
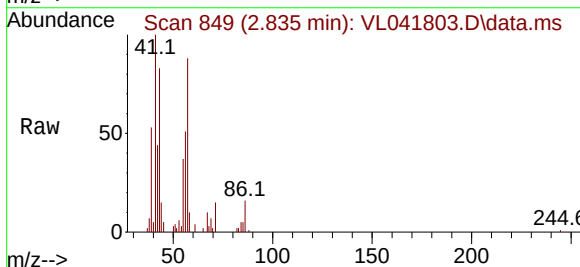
Ion Ratio Lower Upper

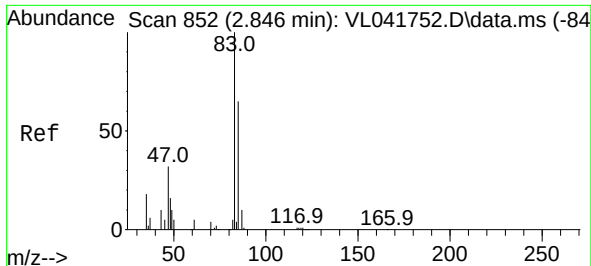
57 100

41 126.2 79.6 119.4#

43 200.4 211.0 316.6#

56 60.8 42.6 63.8





#29

Chloroform

Concen: 0.297 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

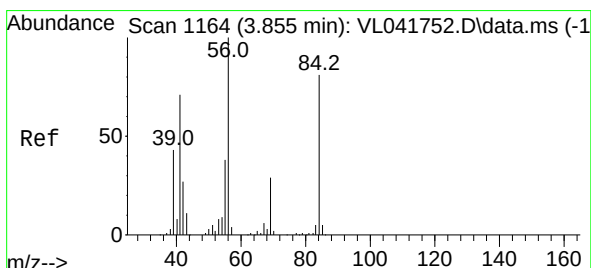
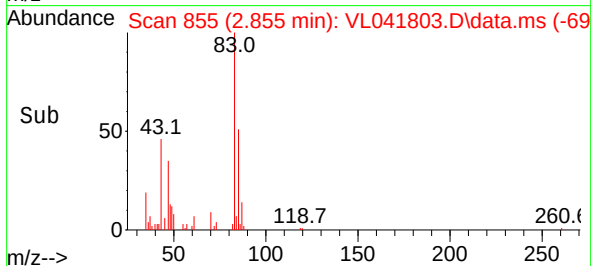
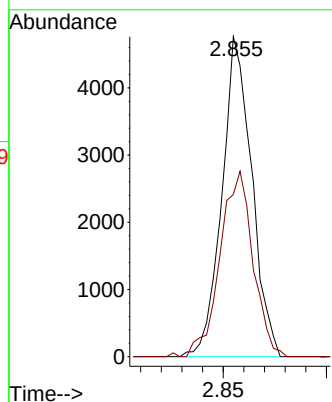
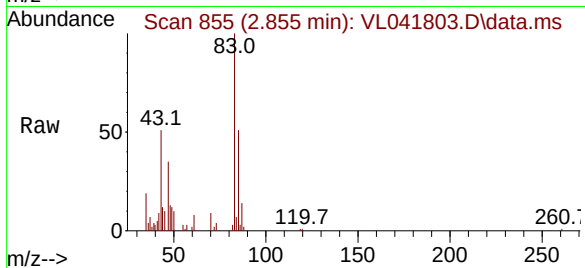
C0AB7

Tgt Ion: 83 Resp: 4772

Ion Ratio Lower Upper

83 100

85 50.7 51.8 77.6#



#30

Cyclohexane

Concen: 0.073 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

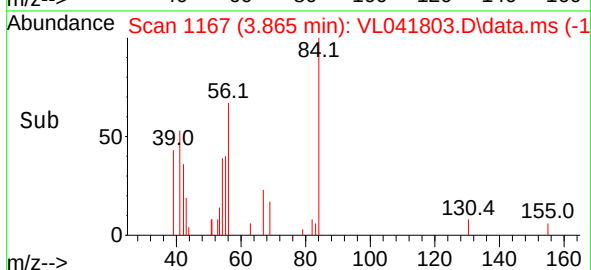
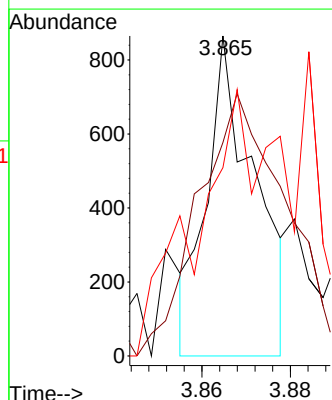
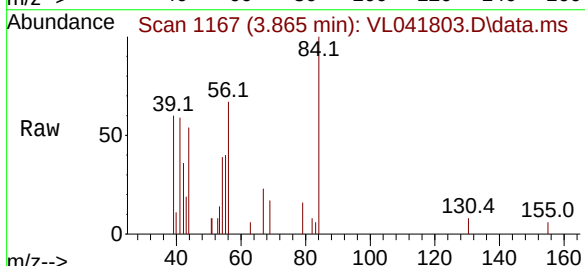
Tgt Ion: 84 Resp: 652

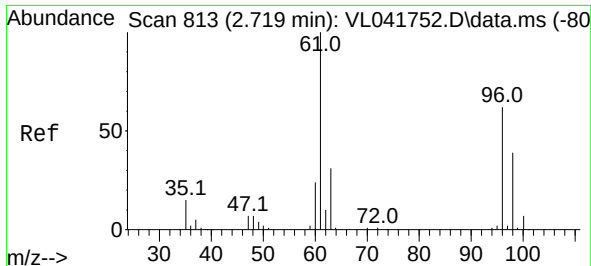
Ion Ratio Lower Upper

84 100

56 158.3 102.3 153.5#

41 0.0 74.0 111.0#





#31

cis-1,2-Dichloroethene

Concen: 0.036 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.126 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

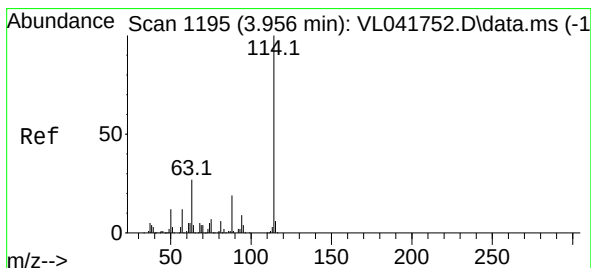
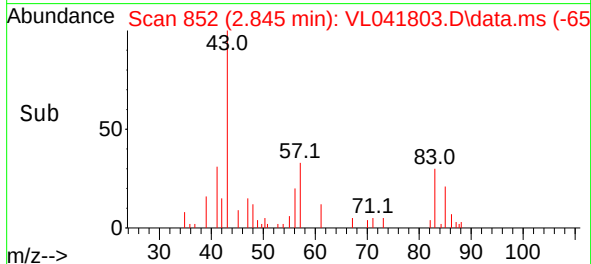
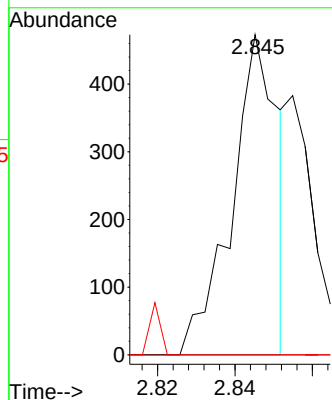
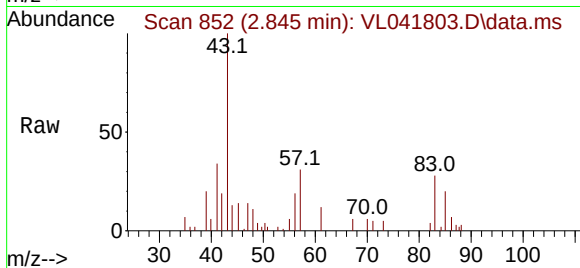
Tgt Ion: 61 Resp: 390

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# 1200

Delta R.T. 0.016 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

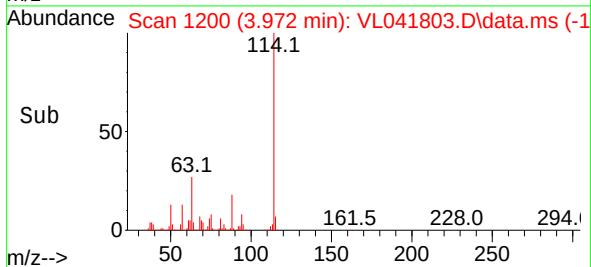
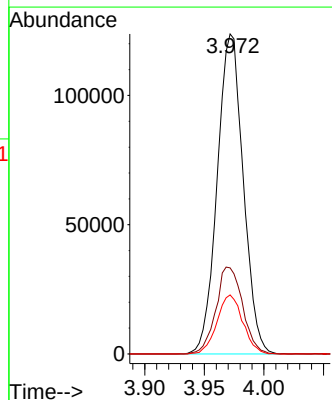
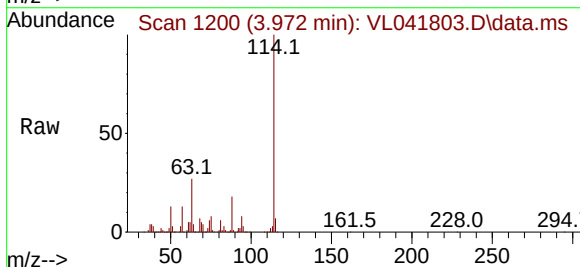
Tgt Ion: 114 Resp: 187828

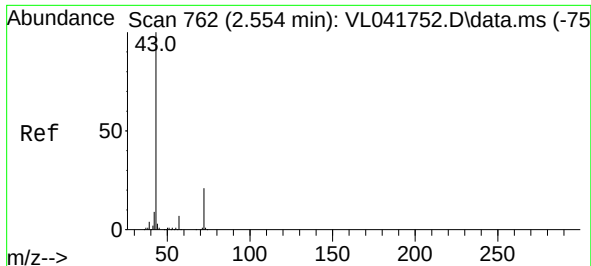
Ion Ratio Lower Upper

114 100

63 27.8 21.8 32.8

88 18.2 14.8 22.2





#34

2-Butanone

Concen: 0.452 ppbv

RT: 2.570 min Scan# 7

Delta R.T. 0.016 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

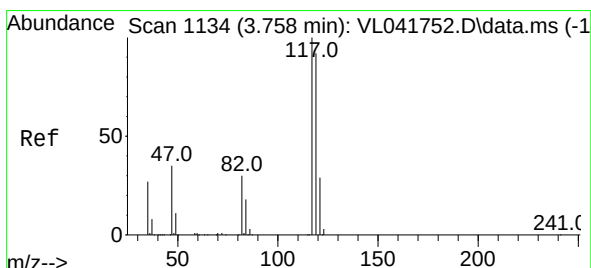
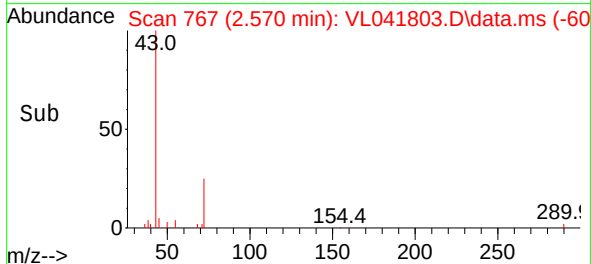
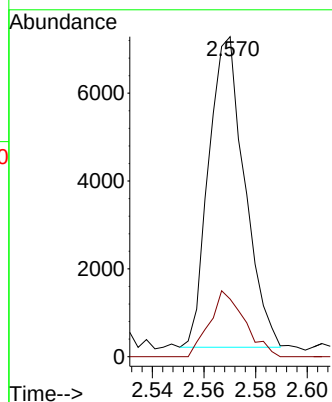
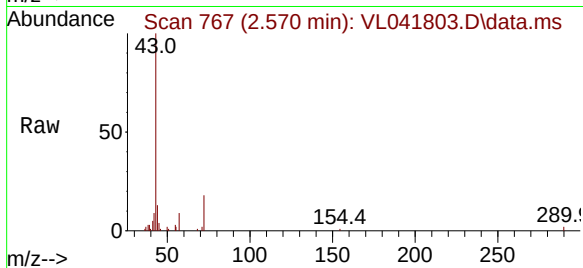
C0AB7

Tgt Ion: 43 Resp: 6833

Ion Ratio Lower Upper

43 100

72 20.6 16.8 25.2



#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 3.774 min Scan# 1139

Delta R.T. 0.016 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

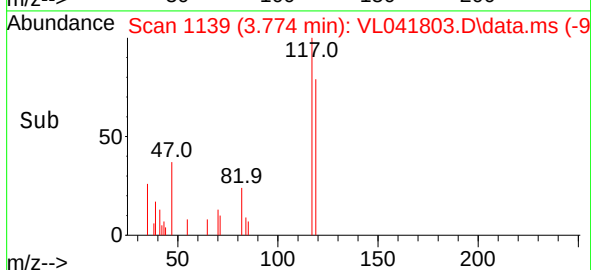
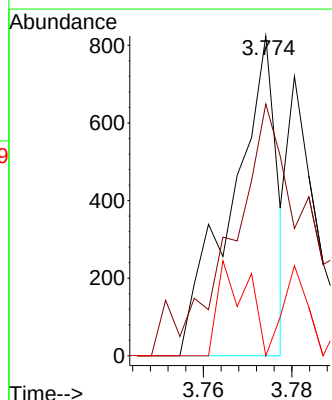
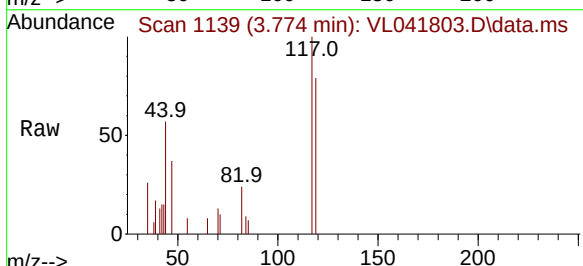
Tgt Ion: 117 Resp: 585

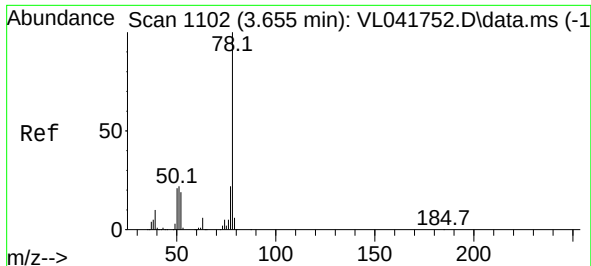
Ion Ratio Lower Upper

117 100

119 72.7 73.7 110.5#

121 0.0 23.0 34.4#

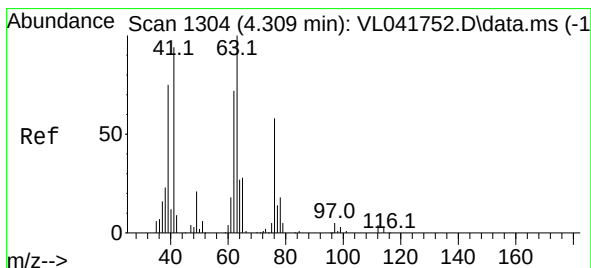
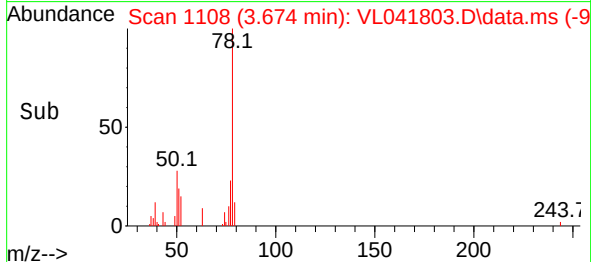
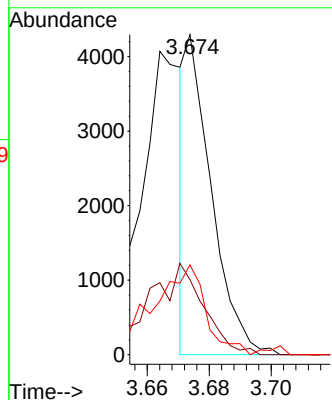
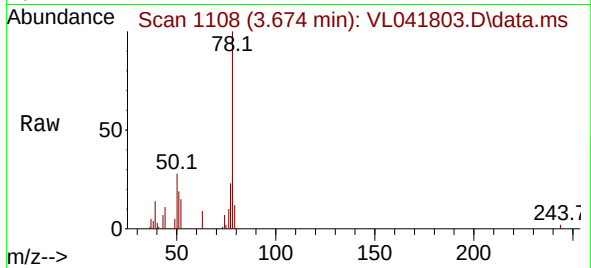




#36
Benzene
Concen: 0.128 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.019 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

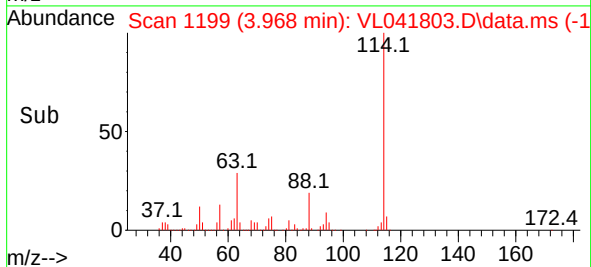
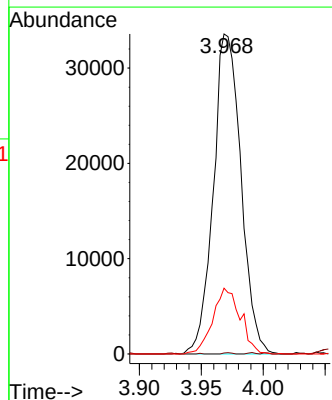
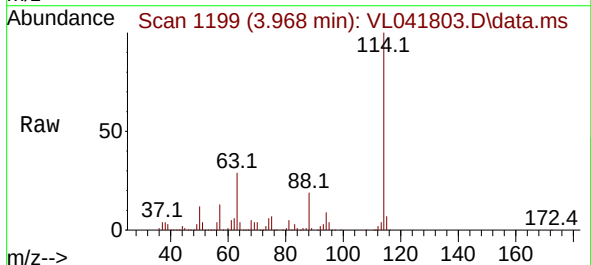
Instrument :
MSVOA_L
ClientSampleId :
C0AB7

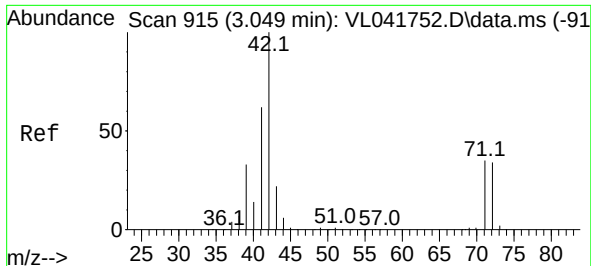
Tgt Ion: 78 Resp: 2492
Ion Ratio Lower Upper
78 100
77 23.5 17.8 26.6
50 25.3 17.2 25.8



#39
1,2-Dichloropropane
Concen: 7.428 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.340 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

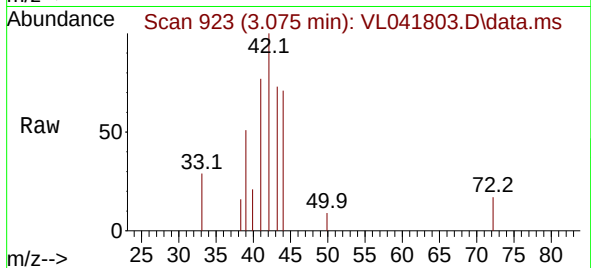
Tgt Ion: 63 Resp: 52198
Ion Ratio Lower Upper
63 100
41 0.3 75.3 112.9#
62 20.6 57.3 85.9#



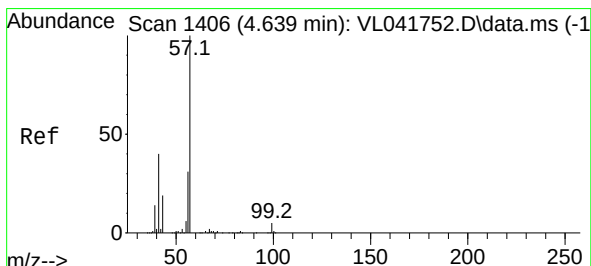
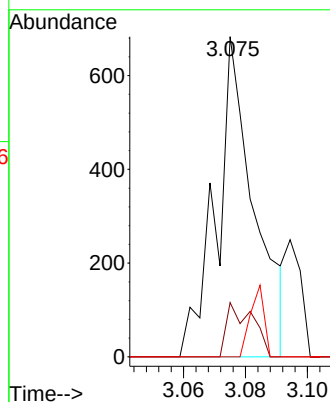
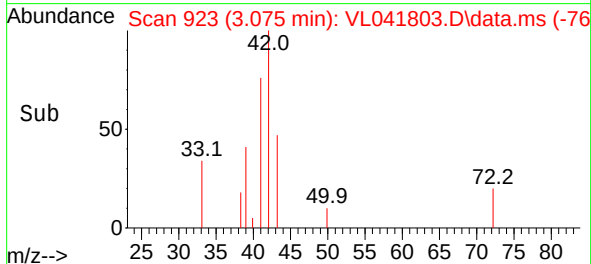


#41
Tetrahydrofuran
Concen: 0.068 ppbv
RT: 3.075 min Scan# 911
Delta R.T. 0.026 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

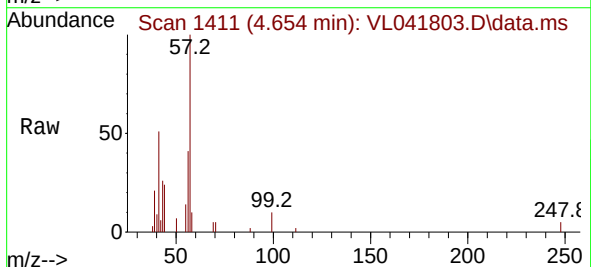
Instrument :
MSVOA_L
ClientSampleId :
C0AB7



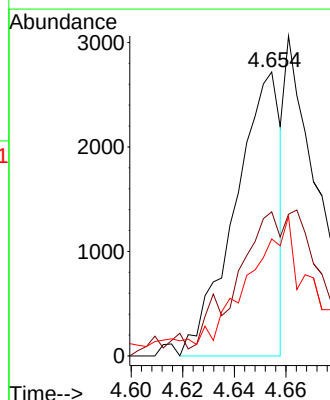
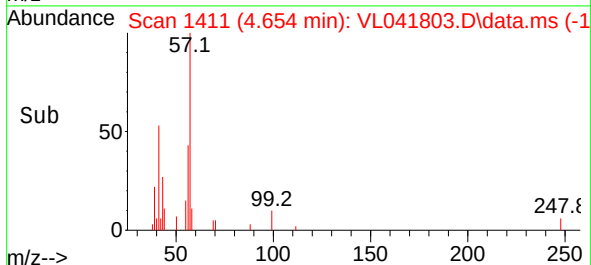
Tgt Ion: 42 Resp: 575
Ion Ratio Lower Upper
42 100
72 11.7 29.1 43.7#
71 8.2 28.4 42.6#

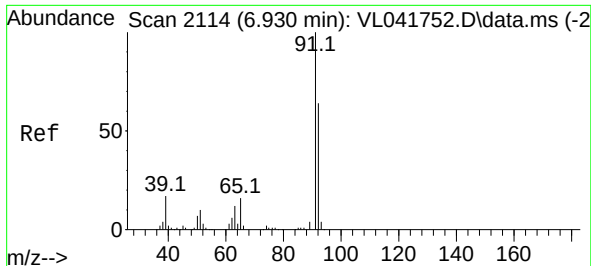


#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv
RT: 4.654 min Scan# 1411
Delta R.T. 0.016 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32



Tgt Ion: 57 Resp: 3319
Ion Ratio Lower Upper
57 100
41 0.0 30.7 46.1#
56 0.0 25.4 38.0#





#53

Toluene

Concen: 0.597 ppbv

RT: 6.949 min Scan# 2114

Delta R.T. 0.019 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

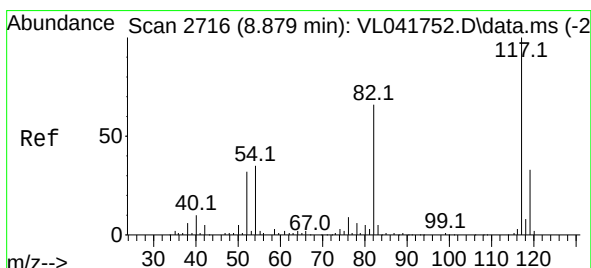
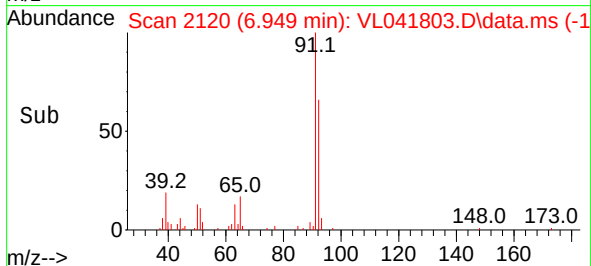
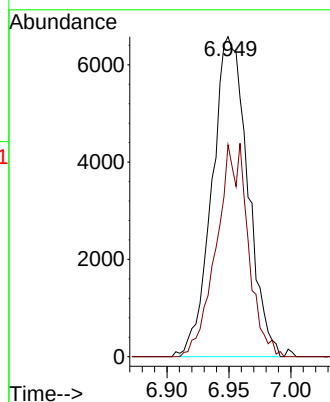
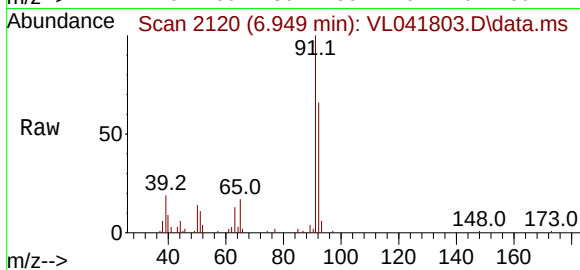
C0AB7

Tgt Ion: 91 Resp: 13160

Ion Ratio Lower Upper

91 100

92 59.3 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: VL041803.D

Acq: 18 Dec 2024 20:32

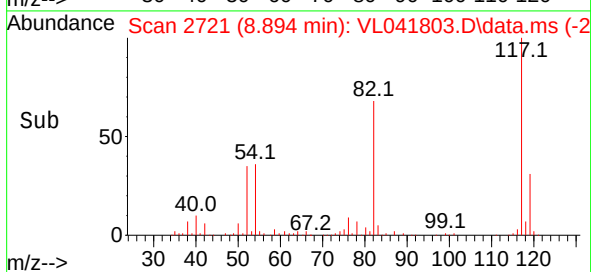
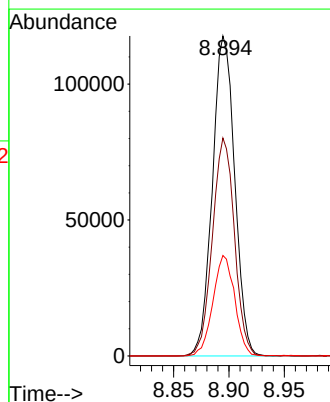
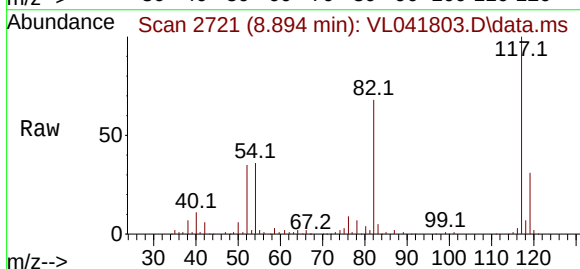
Tgt Ion: 117 Resp: 164998

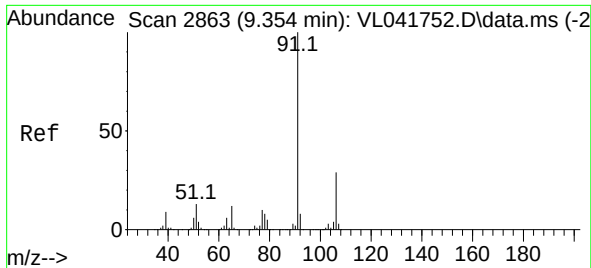
Ion Ratio Lower Upper

117 100

82 67.3 53.8 80.8

119 30.9 26.7 40.1





#58

Ethyl Benzene

Concen: 0.083 ppbv

RT: 9.367 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

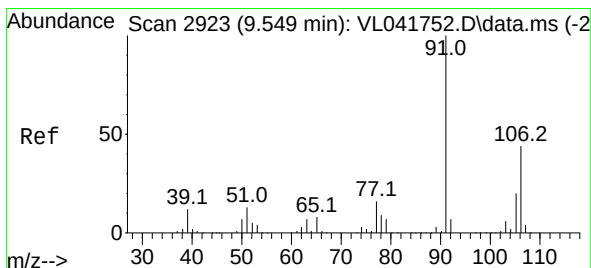
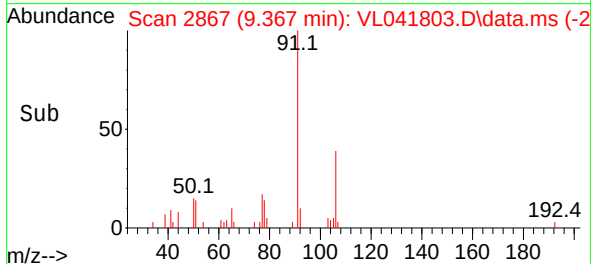
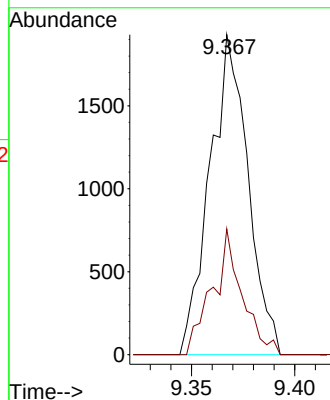
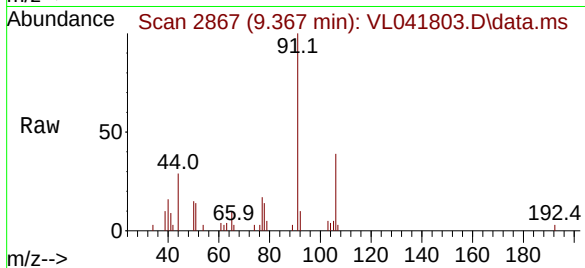
C0AB7

Tgt Ion: 91 Resp: 2474

Ion Ratio Lower Upper

91 100

106 39.3 23.5 35.3#



#59

m/p-Xylene

Concen: 0.058 ppbv

RT: 9.564 min Scan# 2928

Delta R.T. 0.016 min

Lab File: VL041803.D

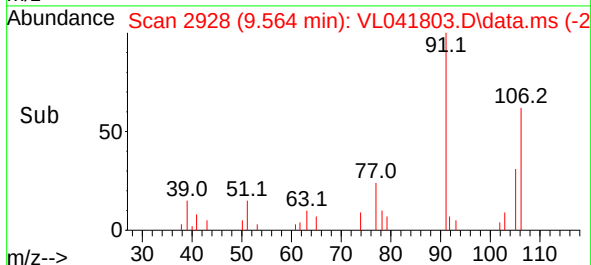
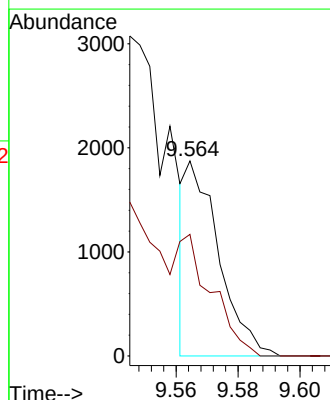
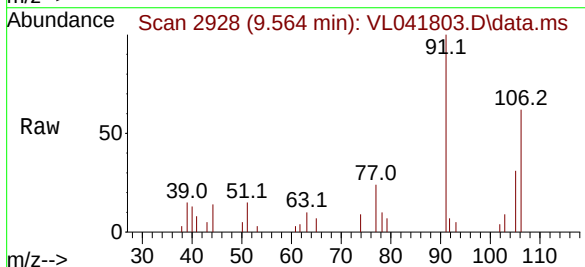
Acq: 18 Dec 2024 20:32

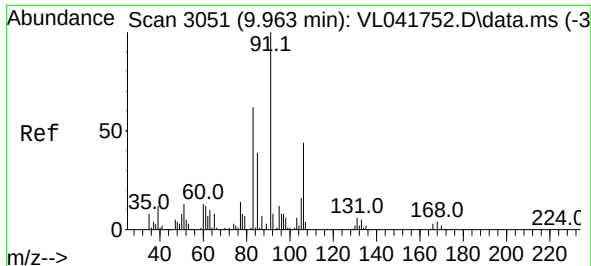
Tgt Ion: 91 Resp: 1382

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





#60

o-Xylene

Concen: 0.109 ppbv

RT: 9.976 min Scan# 3051

Delta R.T. 0.013 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

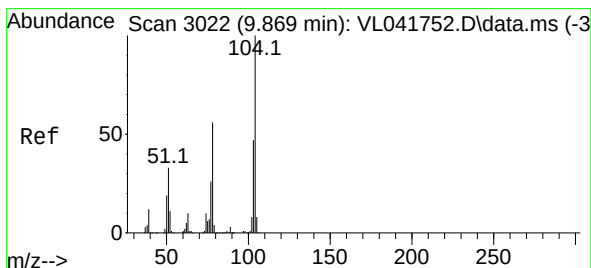
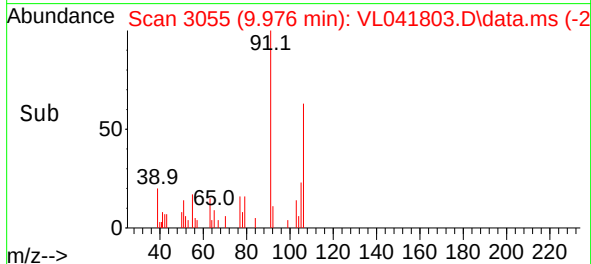
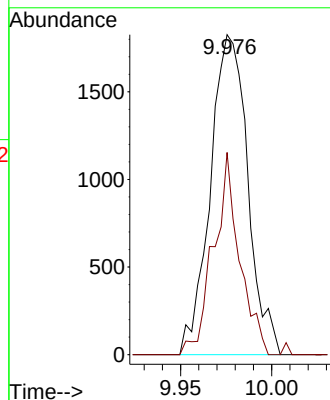
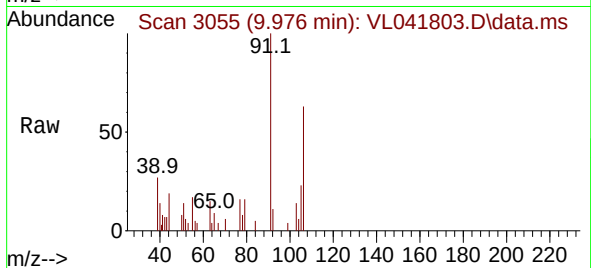
C0AB7

Tgt Ion: 91 Resp: 2612

Ion Ratio Lower Upper

91 100

106 44.4 21.1 63.4



#61

Styrene

Concen: 0.036 ppbv

RT: 9.875 min Scan# 3024

Delta R.T. 0.006 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

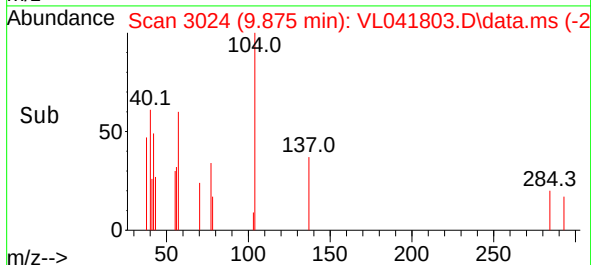
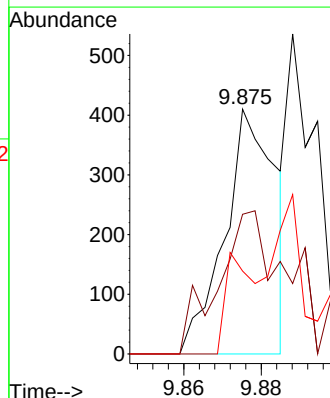
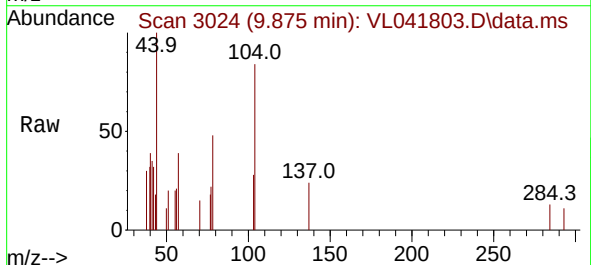
Tgt Ion: 104 Resp: 373

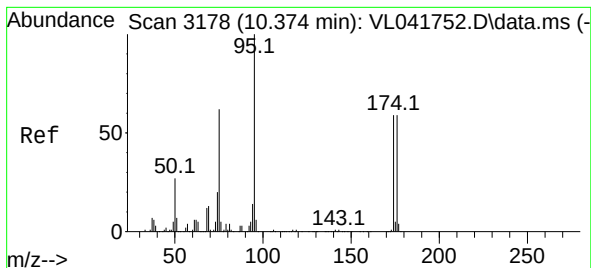
Ion Ratio Lower Upper

104 100

78 82.3 43.8 65.6#

103 0.0 37.8 56.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

RT: 10.387 min Scan# 3178

Delta R.T. 0.013 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

C0AB7

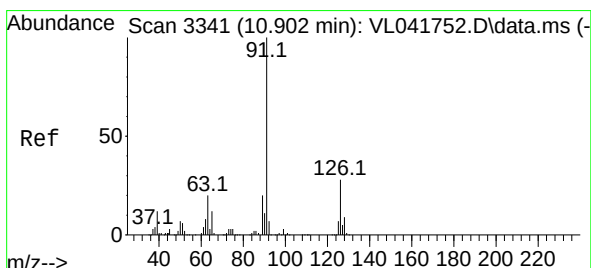
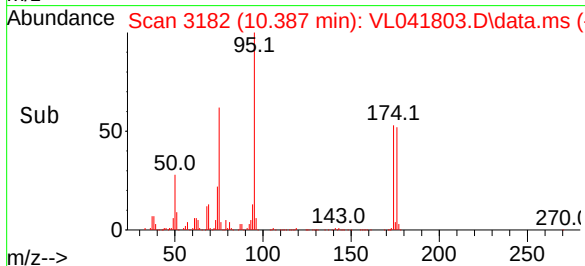
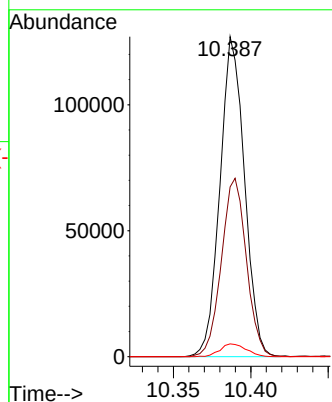
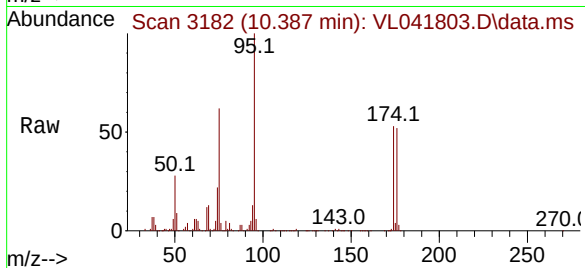
Tgt Ion: 95 Resp: 139994

Ion Ratio Lower Upper

95 100

174 56.8 47.6 71.4

175 4.3 3.7 5.5



#71

2-Chlorotoluene

Concen: 0.545 ppbv

RT: 10.872 min Scan# 3332

Delta R.T. -0.030 min

Lab File: VL041803.D

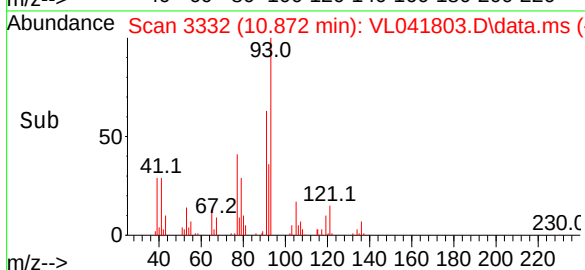
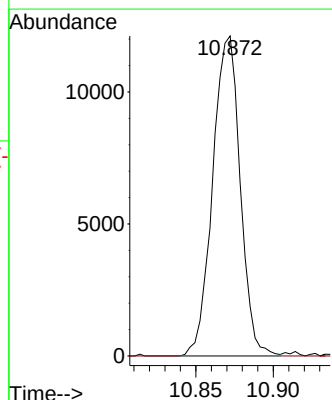
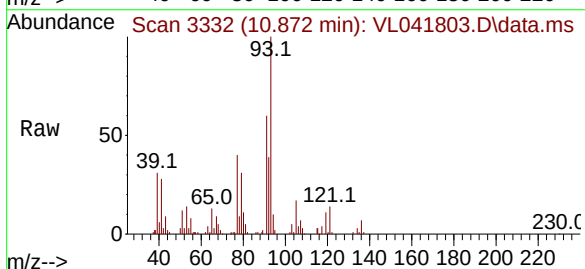
Acq: 18 Dec 2024 20:32

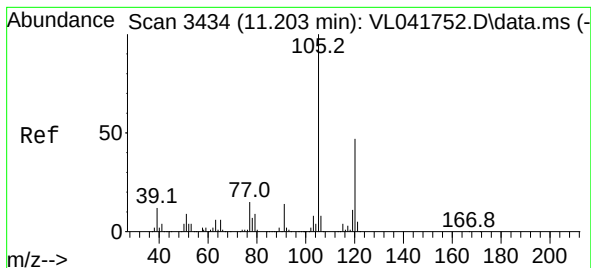
Tgt Ion: 91 Resp: 14981

Ion Ratio Lower Upper

91 100

126 0.0 11.6 46.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.033 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. 0.016 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Instrument :

MSVOA_L

ClientSampleId :

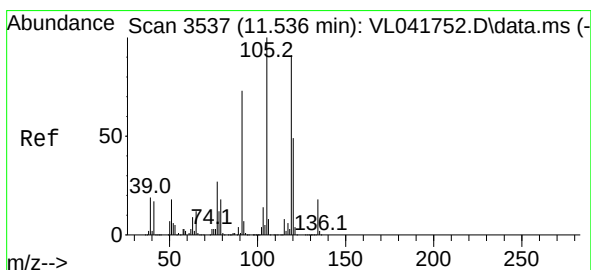
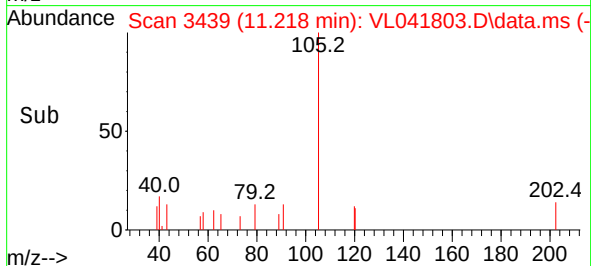
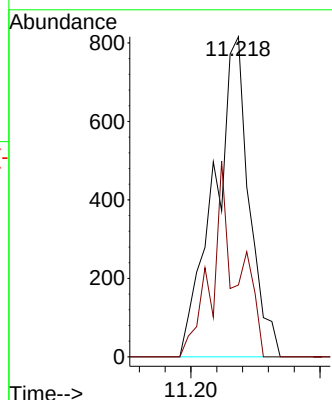
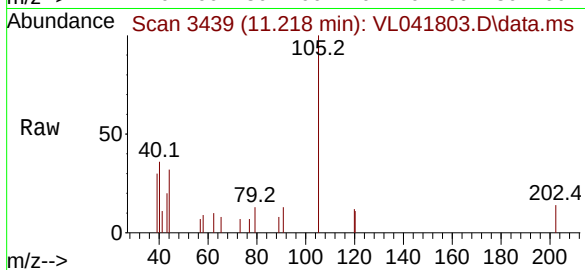
C0AB7

Tgt Ion:105 Resp: 768

Ion Ratio Lower Upper

105 100

120 22.4 37.4 56.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.092 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL041803.D

Acq: 18 Dec 2024 20:32

Tgt Ion:105 Resp: 2331

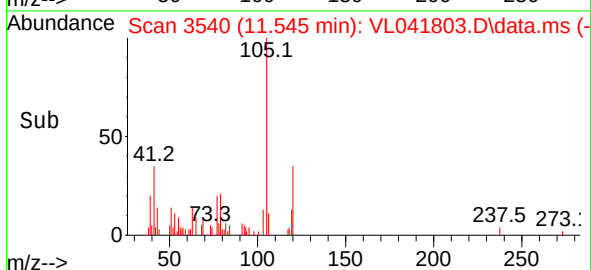
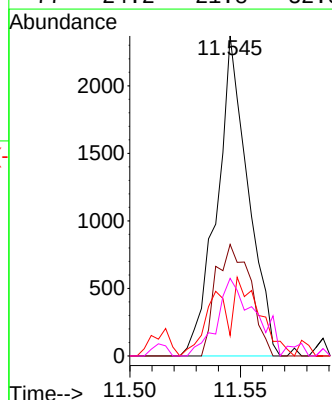
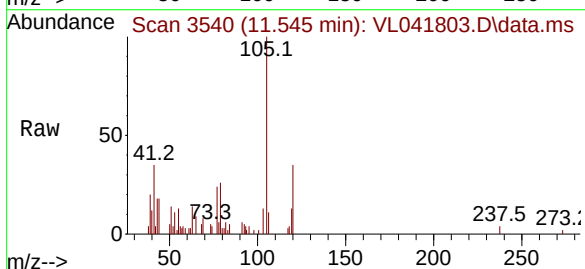
Ion Ratio Lower Upper

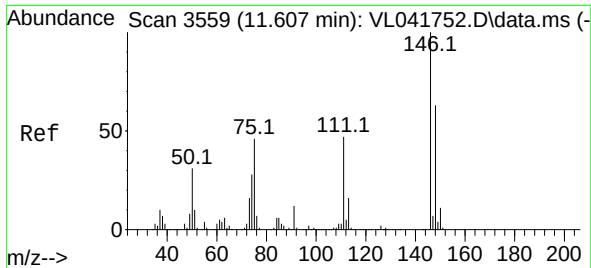
105 100

120 34.9 39.0 58.4#

91 6.4 58.1 87.1#

77 24.2 21.8 32.8

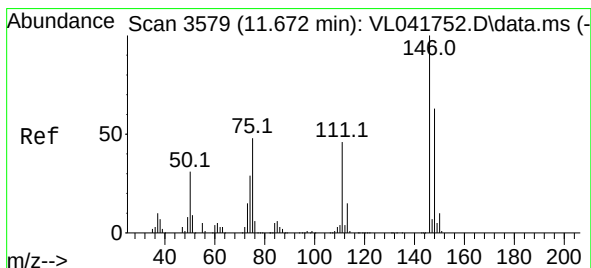
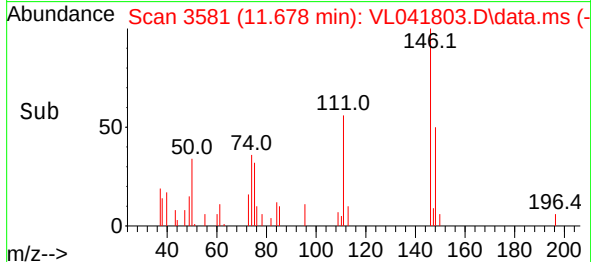
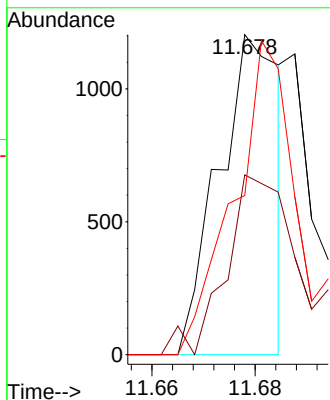
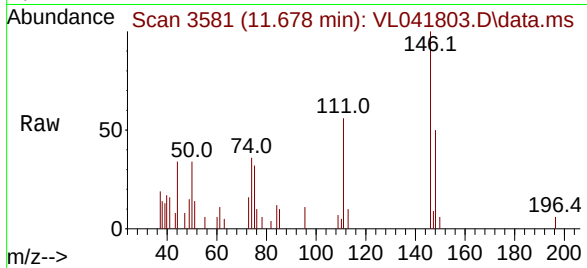




#75
1,3-Dichlorobenzene
Concen: 0.061 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.071 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

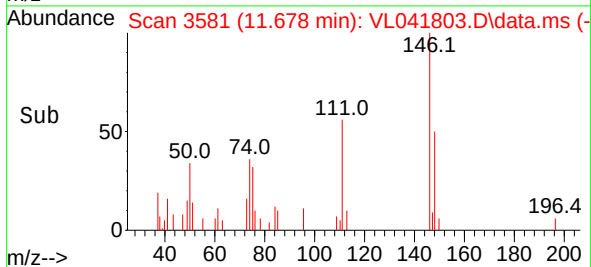
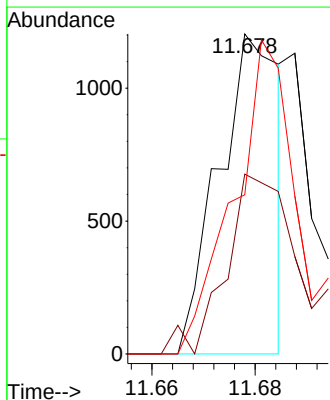
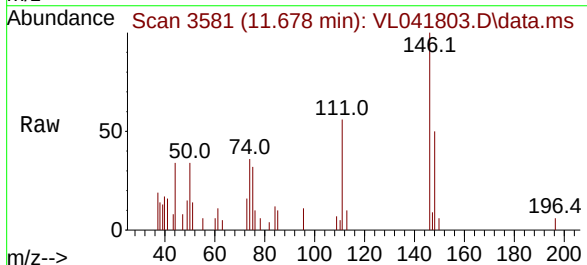
Instrument :
MSVOA_L
ClientSampleId :
C0AB7

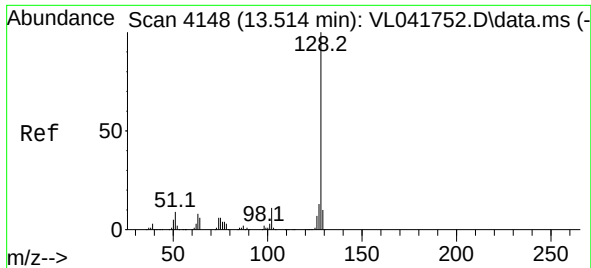
Tgt Ion:146 Resp: 981
Ion Ratio Lower Upper
146 100
111 68.7 23.4 70.3
148 100.8 31.6 95.0#



#76
1,4-Dichlorobenzene
Concen: 0.062 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.006 min
Lab File: VL041803.D
Acq: 18 Dec 2024 20:32

Tgt Ion:146 Resp: 981
Ion Ratio Lower Upper
146 100
111 68.7 22.7 68.1#
148 100.8 31.4 94.0#





#79

Naphthalene

Concen: 0.051 ppbv

RT: 13.516 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041803.D

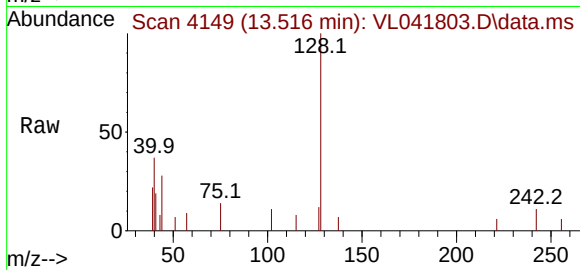
Acq: 18 Dec 2024 20:32

Instrument :

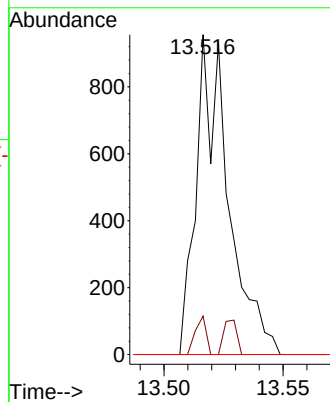
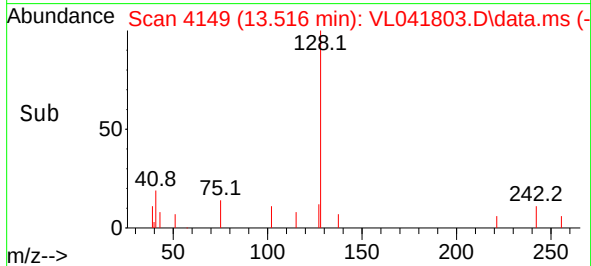
MSVOA_L

ClientSampleId :

C0AB7



Tgt Ion:	128	Resp:	894
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.7	16.1
129	0.0	8.2	12.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041811.D
 Acq On : 19 Dec 2024 00:44
 Operator : SY/MD
 Sample : P5294-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB8

Quant Time: Dec 19 08:02:26 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

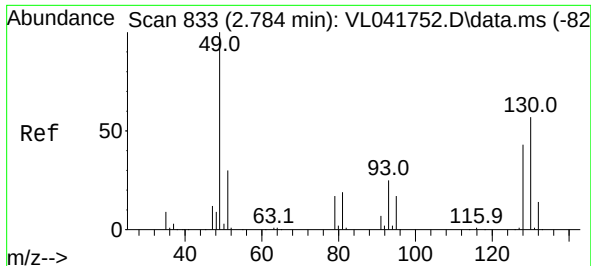
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	77490	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	186355	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	163591	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	137750	10.105	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5098	0.370	ppbv	91
3) Chlorodifluoromethane	1.466	51	11261	0.891	ppbv #	77
4) Chloromethane	1.534	50	3262	0.605	ppbv #	79
6) Bromomethane	1.670	94	133	0.052	ppbv #	70
7) Chloroethane	1.706	64	106	0.050	ppbv #	40
9) Propene	1.560	41	13953	2.547	ppbv	88
10) Heptane	4.998	43	1116	0.079	ppbv #	36
11) Trichlorofluoromethane	1.881	101	2991	0.204	ppbv	99
12) 1,1,2-Trichlorotri fluo...	2.143	101	715	0.064	ppbv	95
13) Ethanol	1.722	45	711075	1567.837	ppbv	95
15) Acetone	1.839	43	119725	7.941	ppbv #	87
16) 1,3-Butadiene	1.602	39	3399	0.573	ppbv #	58
17) tert-Butyl alcohol	2.046	59	4030	0.269	ppbv #	1
19) Isopropyl Alcohol	1.890	45	46673	5.159	ppbv #	38
20) Methylene Chloride	2.065	84	1430	0.333	ppbv	92
21) Allyl Chloride	2.085	41	770	0.094	ppbv #	33
23) Vinyl Acetate	2.460	43	9928	1.418	ppbv #	93
25) Ethyl Acetate	2.848	43	2243	0.080	ppbv #	50
26) Hexane	2.832	57	3902	0.367	ppbv #	63
29) Chloroform	2.855	83	3971	0.245	ppbv	91
30) Cyclohexane	3.862	84	475	0.052	ppbv #	46
31) cis-1,2-Dichloroethene	2.845	61	594	0.054	ppbv #	26
34) 2-Butanone	2.564	43	14105	0.941	ppbv	96
35) Carbon Tetrachloride	3.768	117	417	0.032	ppbv #	67
36) Benzene	3.664	78	7992	0.415	ppbv	98
39) 1,2-Dichloropropane	3.965	63	52285	7.500	ppbv #	17
44) 2,2,4-Trimethylpentane	4.655	57	6997	0.213	ppbv #	41
53) Toluene	6.949	91	16221	0.742	ppbv	99
58) Ethyl Benzene	9.361	91	3309	0.112	ppbv	90
59) m/p-Xylene	9.561	91	1793	0.076	ppbv #	100
60) o-Xylene	9.972	91	3000	0.126	ppbv	98
61) Styrene	9.882	104	483	0.047	ppbv #	66
71) 2-Chlorotoluene	10.866	91	11185	0.411	ppbv #	46
74) 1,2,4-Trimethylbenzene	11.542	105	3276	0.131	ppbv #	50

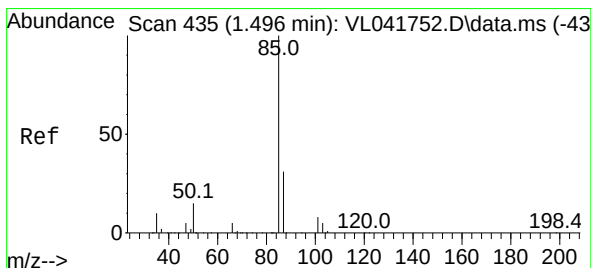
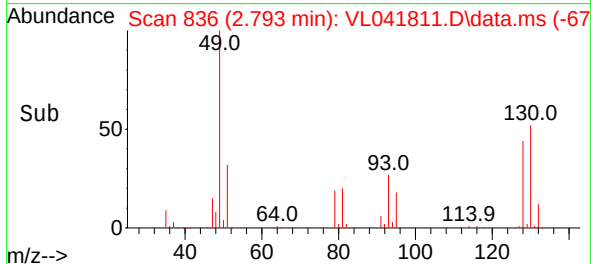
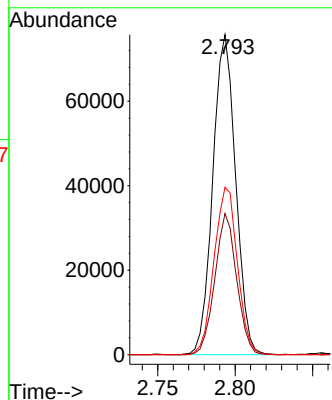
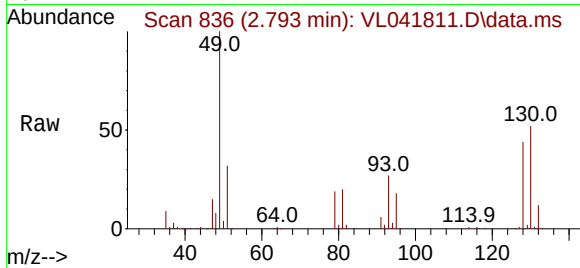
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

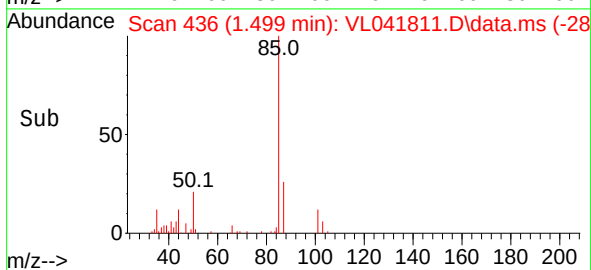
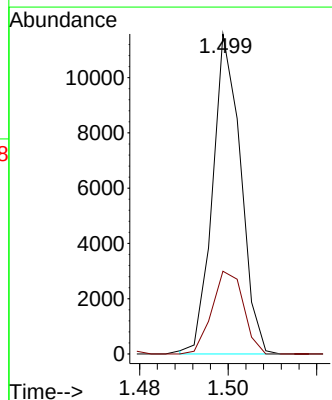
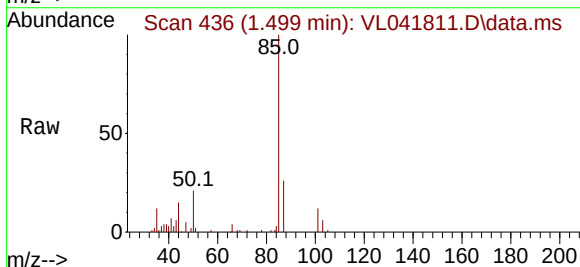
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

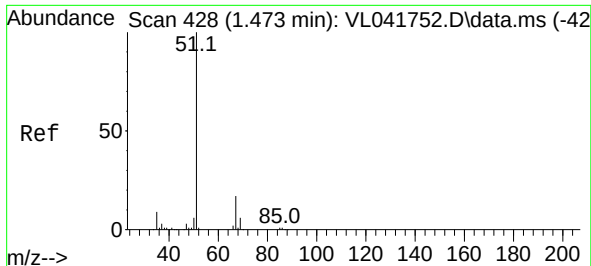
Tgt Ion: 49 Resp: 77490
Ion Ratio Lower Upper
49 100
128 42.1 21.6 64.6
130 53.5 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Tgt Ion: 85 Resp: 5098
Ion Ratio Lower Upper
85 100
87 25.9 24.5 36.7

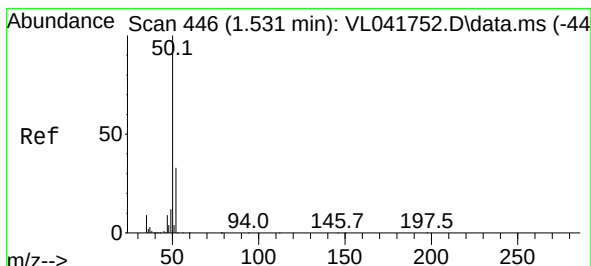
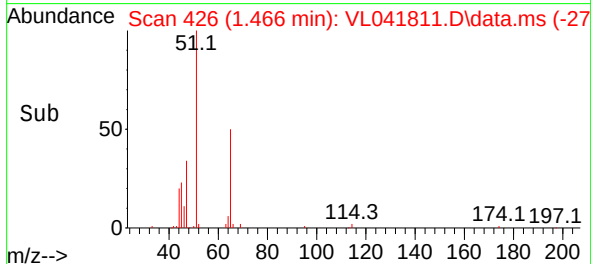
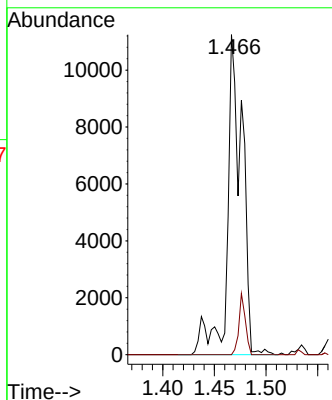
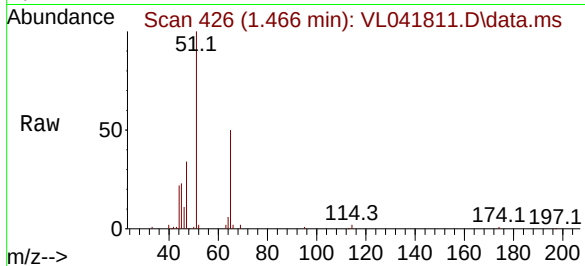




#3
Chlorodifluoromethane
Concen: 0.891 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

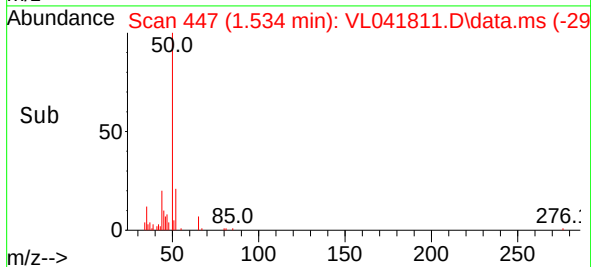
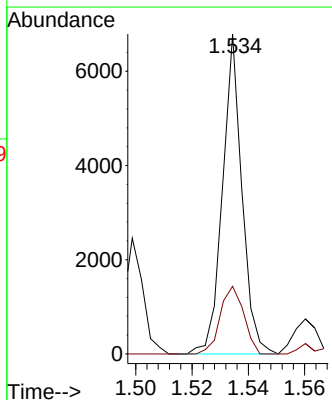
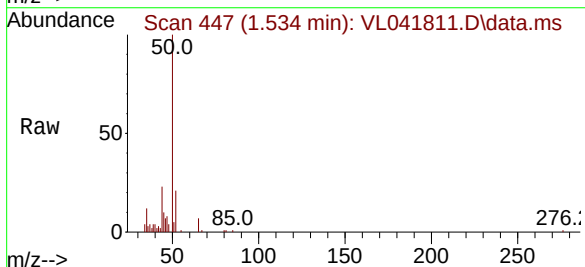
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

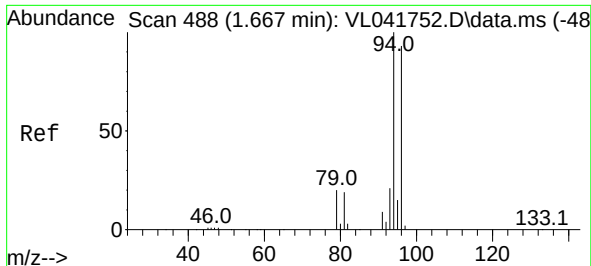
Tgt Ion: 51 Resp: 11261
Ion Ratio Lower Upper
51 100
67 8.3 15.0 22.4#



#4
Chloromethane
Concen: 0.605 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Tgt Ion: 50 Resp: 3262
Ion Ratio Lower Upper
50 100
52 21.1 26.2 39.2#





#6

Bromomethane

Concen: 0.052 ppbv

RT: 1.670 min Scan# 488

Delta R.T. 0.003 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

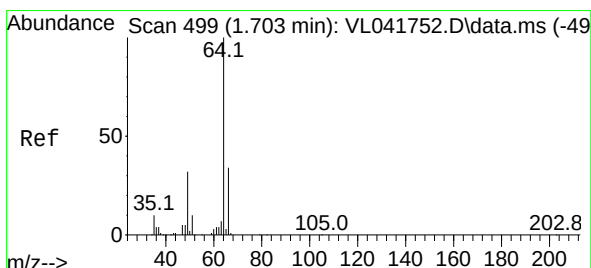
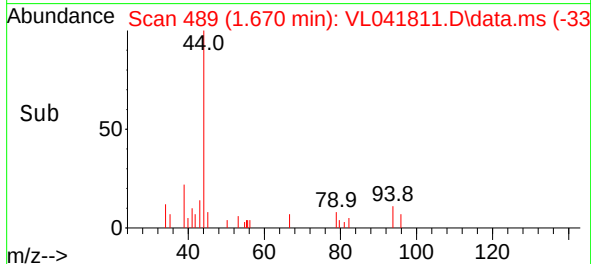
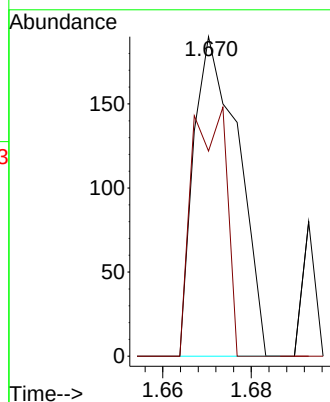
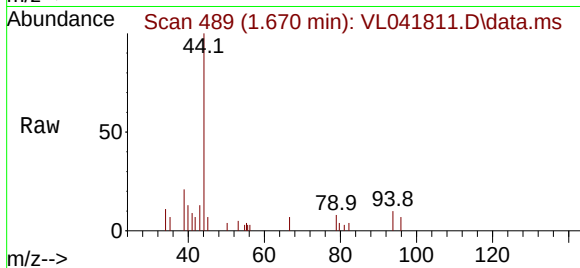
C0AB8

Tgt Ion: 94 Resp: 133

Ion Ratio Lower Upper

94 100

96 64.2 74.7 112.1#



#7

Chloroethane

Concen: 0.050 ppbv

RT: 1.706 min Scan# 500

Delta R.T. 0.003 min

Lab File: VL041811.D

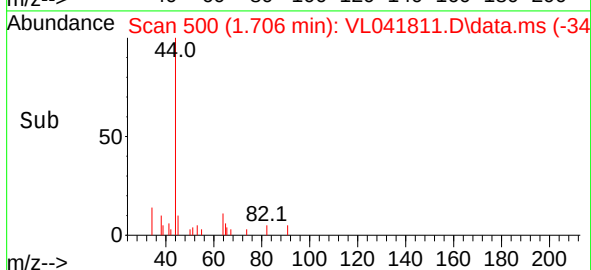
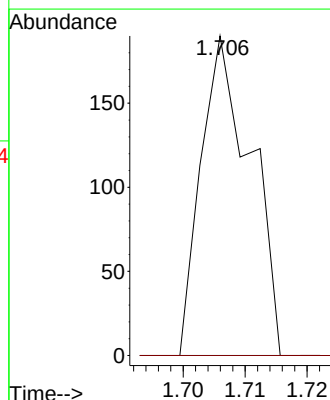
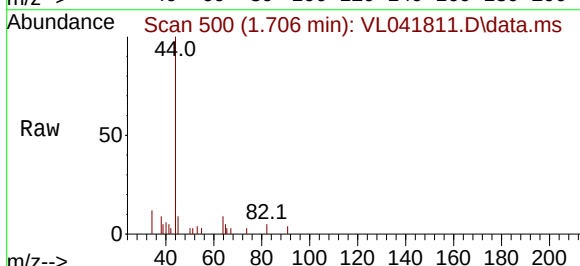
Acq: 19 Dec 2024 00:44

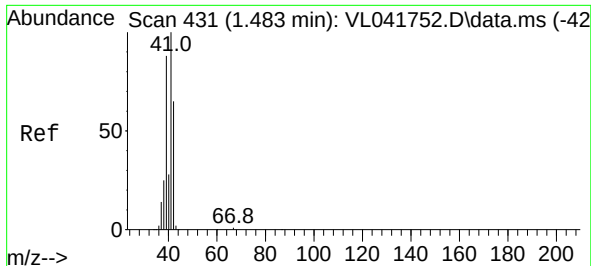
Tgt Ion: 64 Resp: 106

Ion Ratio Lower Upper

64 100

66 0.0 27.5 41.3#





#9

Propene

Concen: 2.547 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.077 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

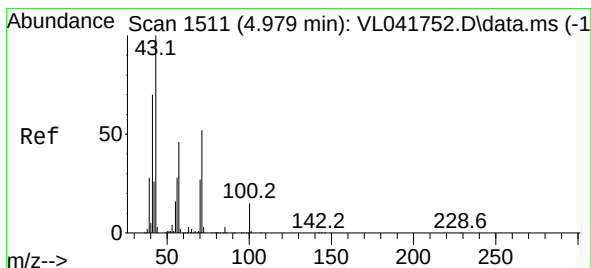
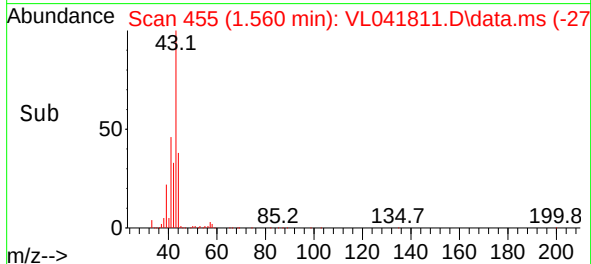
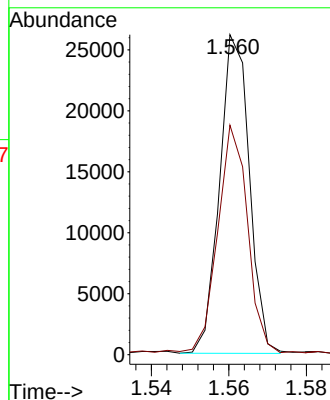
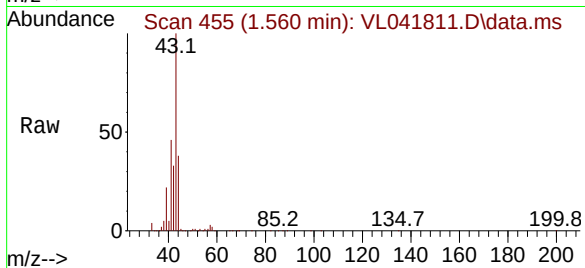
C0AB8

Tgt Ion: 41 Resp: 13953

Ion Ratio Lower Upper

41 100

42 74.7 52.4 78.6



#10

Heptane

Concen: 0.079 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. 0.019 min

Lab File: VL041811.D

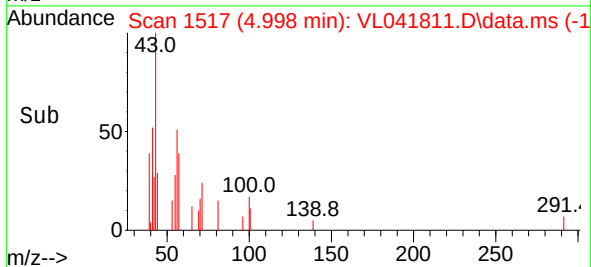
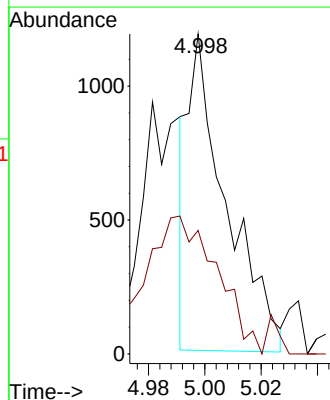
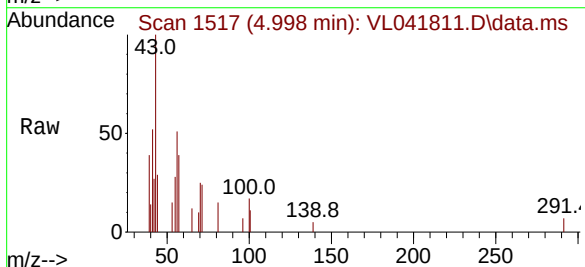
Acq: 19 Dec 2024 00:44

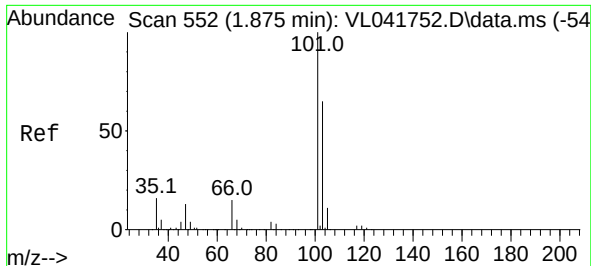
Tgt Ion: 43 Resp: 1116

Ion Ratio Lower Upper

43 100

57 91.5 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.204 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.006 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

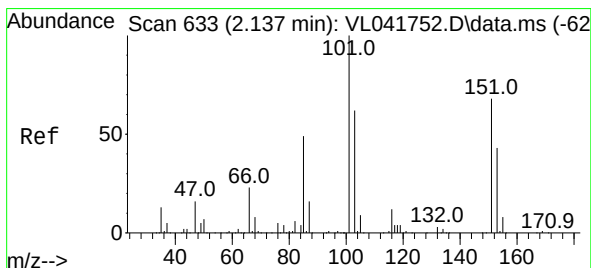
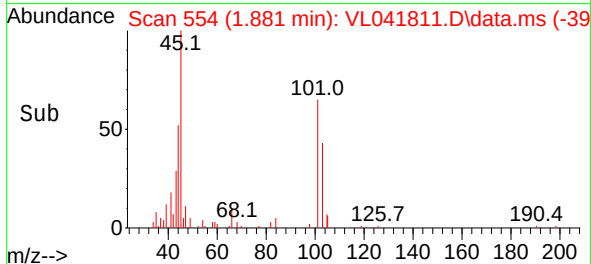
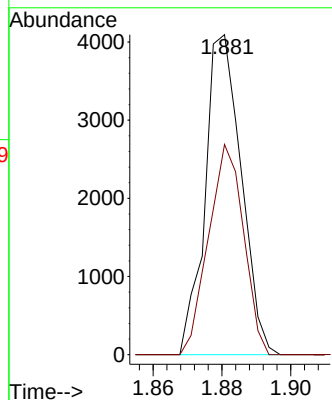
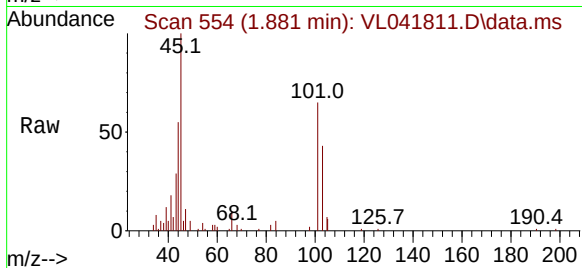
C0AB8

Tgt Ion:101 Resp: 2991

Ion Ratio Lower Upper

101 100

103 65.7 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.064 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.006 min

Lab File: VL041811.D

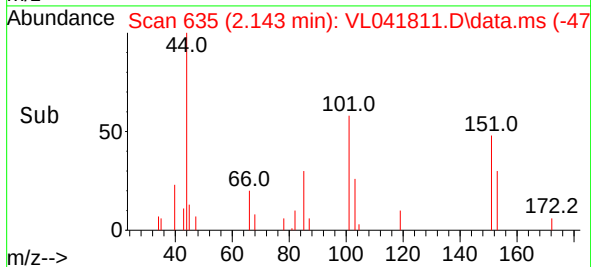
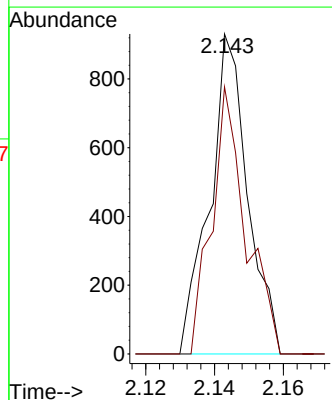
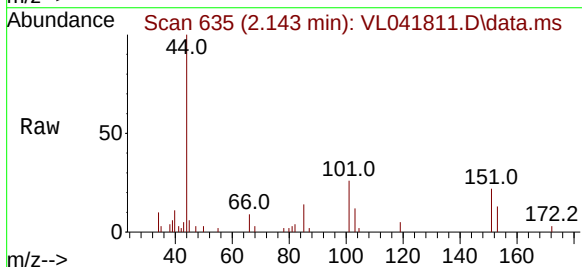
Acq: 19 Dec 2024 00:44

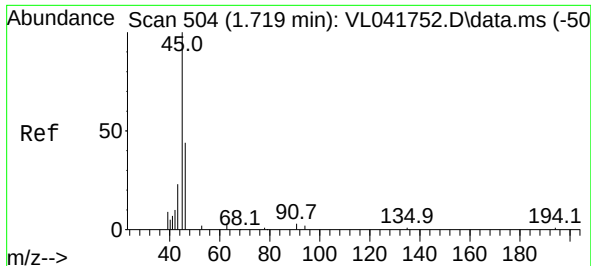
Tgt Ion:101 Resp: 715

Ion Ratio Lower Upper

101 100

151 74.8 56.8 85.2

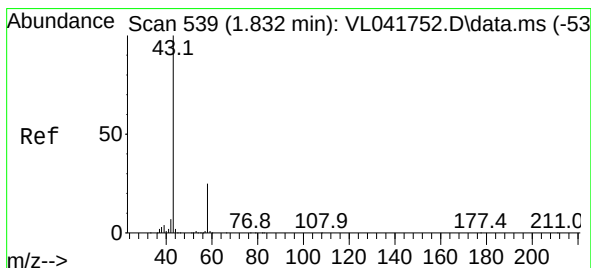
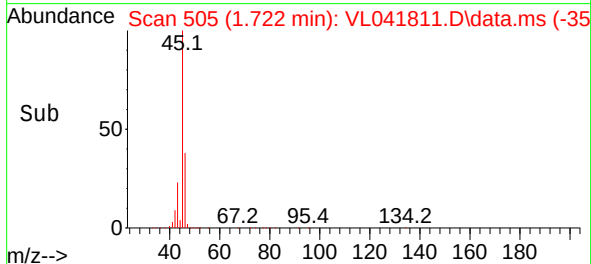
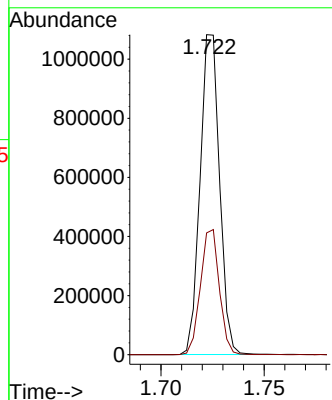
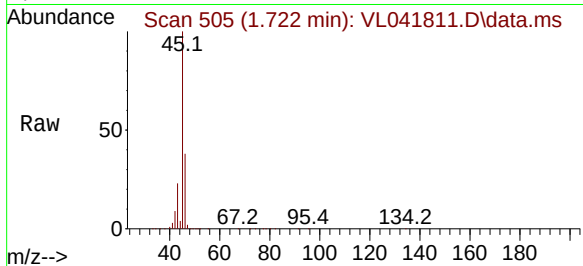




#13
Ethanol
Concen: 1567.837 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

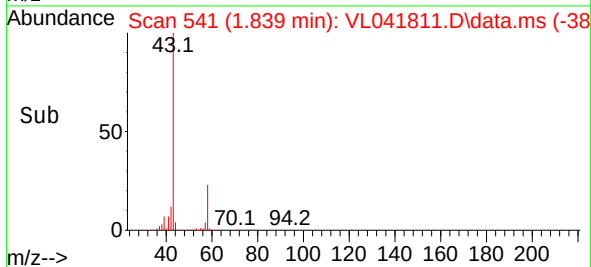
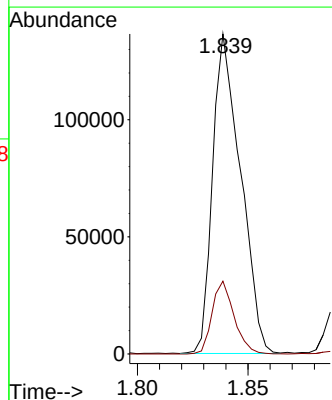
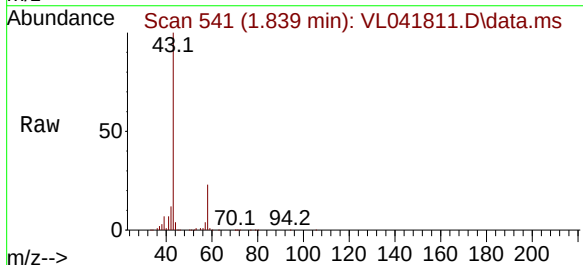
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

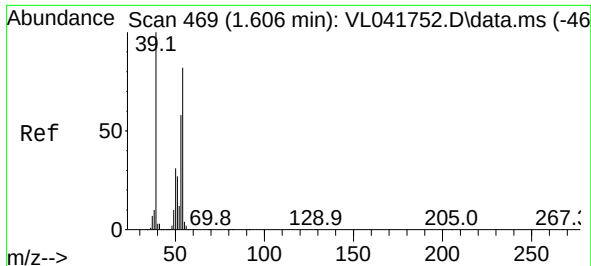
Tgt Ion: 45 Resp: 711075
Ion Ratio Lower Upper
45 100
46 38.1 16.4 65.8



#15
Acetone
Concen: 7.941 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Tgt Ion: 43 Resp: 119725
Ion Ratio Lower Upper
43 100
58 18.0 19.7 29.5#





#16

1,3-Butadiene

Concen: 0.573 ppbv

RT: 1.602 min Scan# 4

Delta R.T. -0.004 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

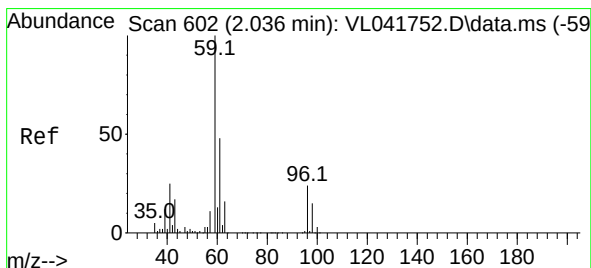
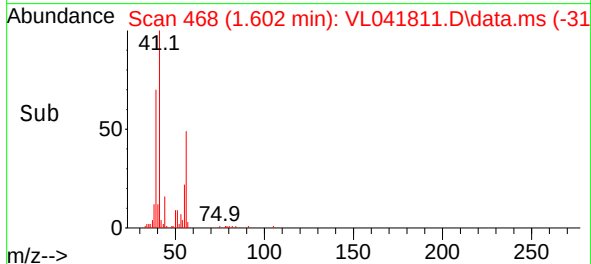
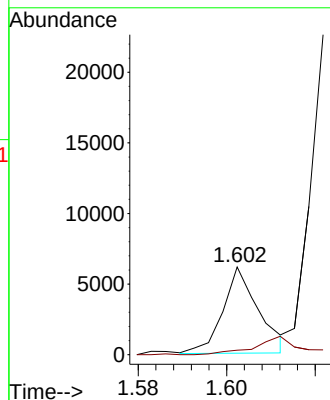
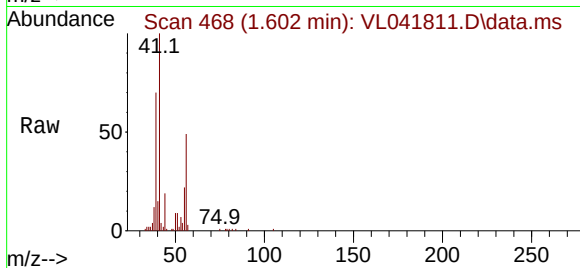
C0AB8

Tgt Ion: 39 Resp: 3399

Ion Ratio Lower Upper

39 100

54 37.4 58.4 87.6#



#17

tert-Butyl alcohol

Concen: 0.269 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.009 min

Lab File: VL041811.D

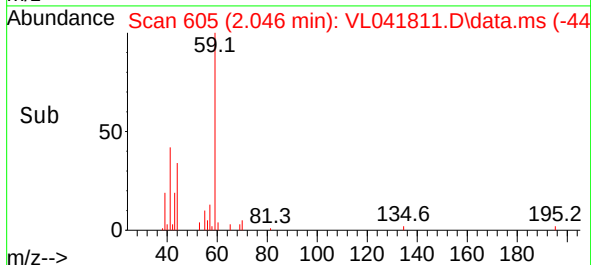
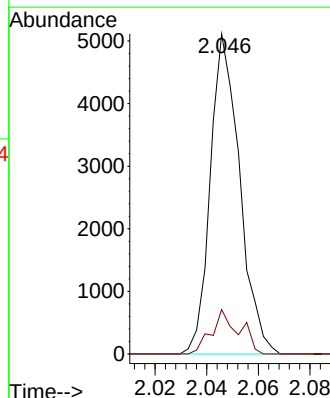
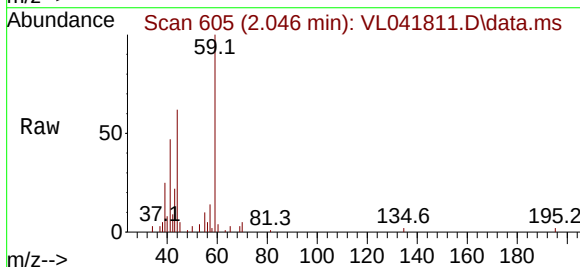
Acq: 19 Dec 2024 00:44

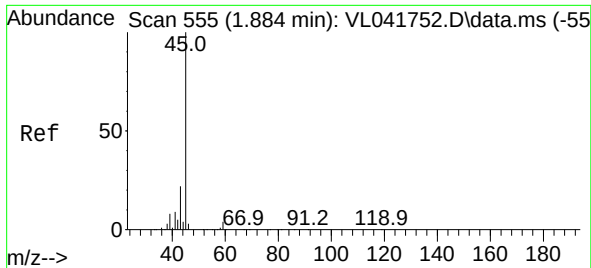
Tgt Ion: 59 Resp: 4030

Ion Ratio Lower Upper

59 100

57 207.8 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 5.159 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

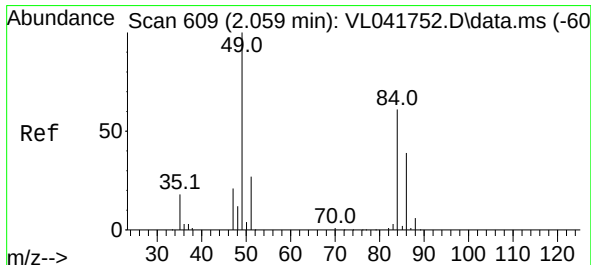
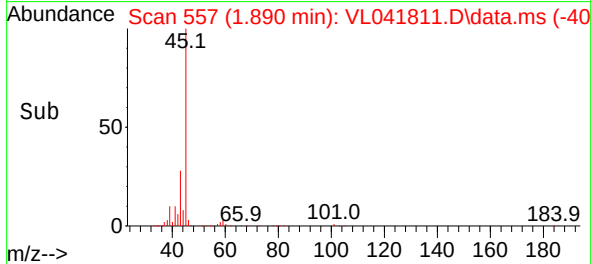
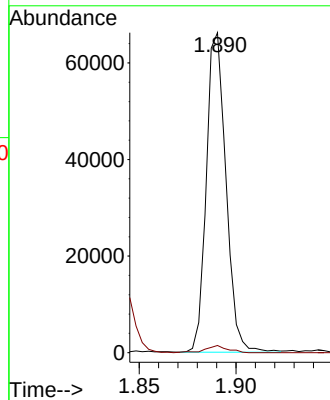
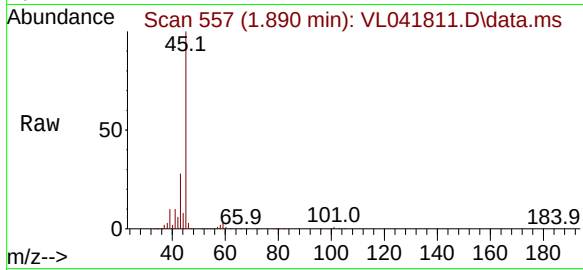
C0AB8

Tgt Ion: 45 Resp: 46673

Ion Ratio Lower Upper

45 100

58 2.5 33.3 49.9#



#20

Methylene Chloride

Concen: 0.333 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Tgt Ion: 84 Resp: 1430

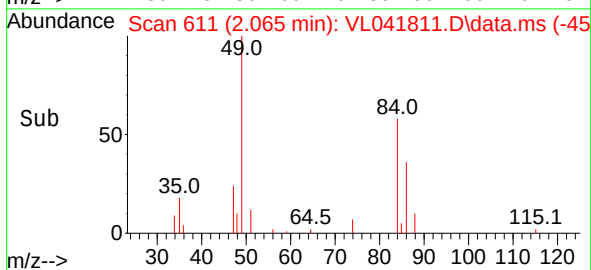
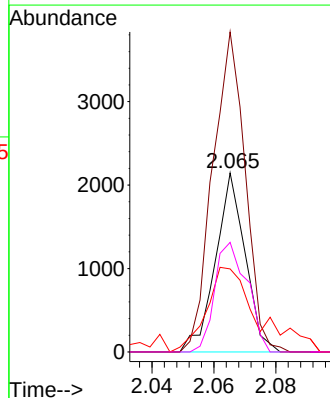
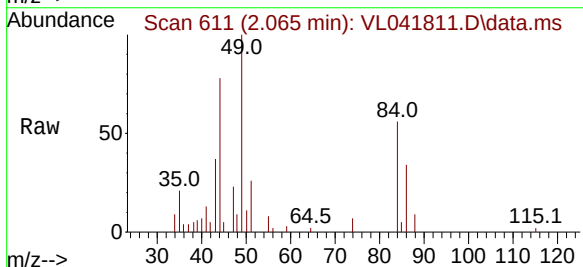
Ion Ratio Lower Upper

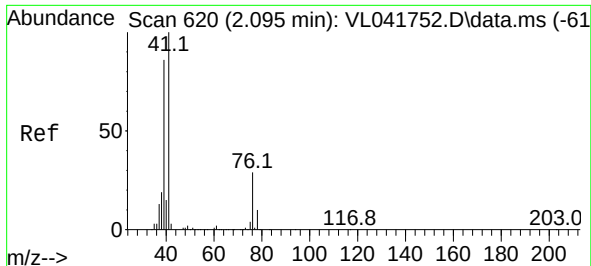
84 100

49 178.8 132.6 198.8

51 43.8 37.6 56.4

86 61.2 51.4 77.0





#21

Allyl Chloride

Concen: 0.094 ppbv

RT: 2.085 min Scan# 61

Delta R.T. -0.010 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

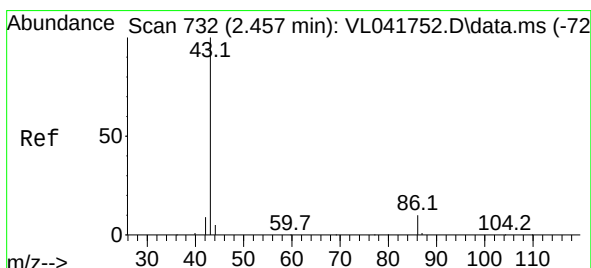
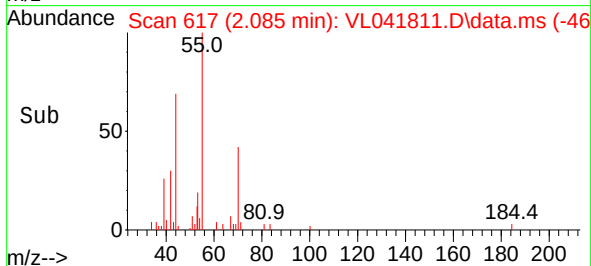
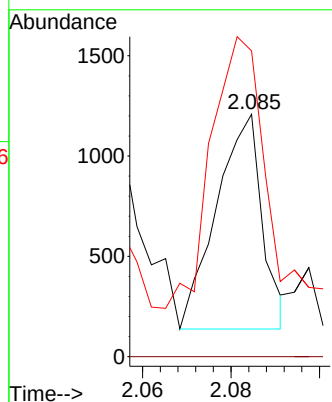
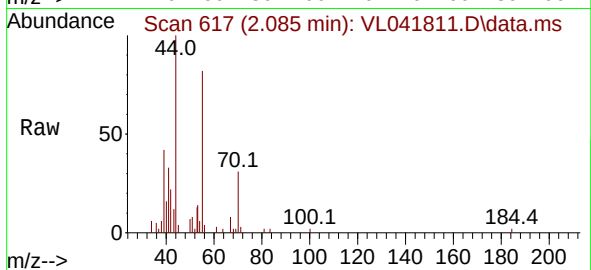
Tgt Ion: 41 Resp: 770

Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 152.1 69.2 103.8#



#23

Vinyl Acetate

Concen: 1.418 ppbv

RT: 2.460 min Scan# 733

Delta R.T. 0.003 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Tgt Ion: 43 Resp: 9928

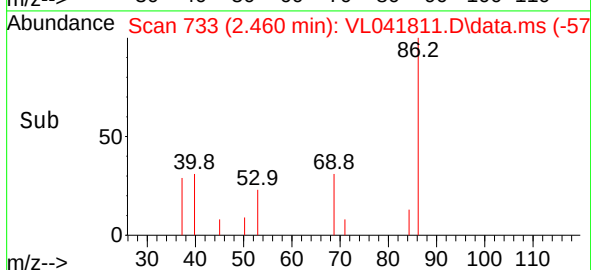
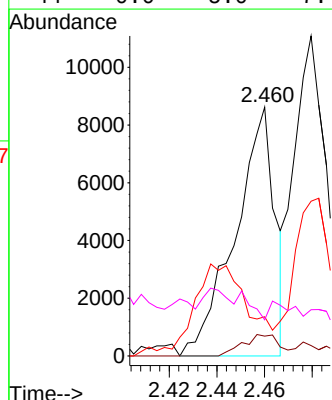
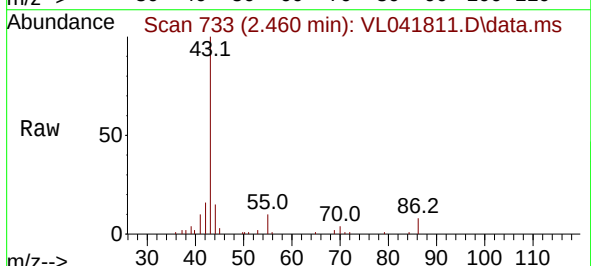
Ion Ratio Lower Upper

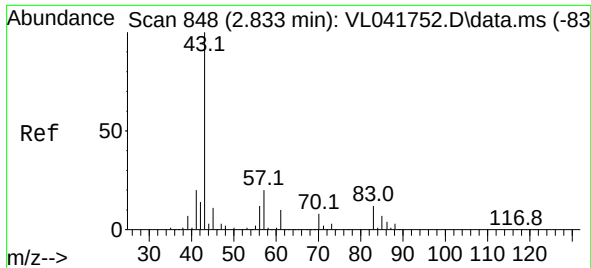
43 100

86 7.9 6.6 10.0

42 8.2 8.2 12.2

44 0.0 5.0 7.4#





#25

Ethyl Acetate

Concen: 0.080 ppbv

RT: 2.848 min Scan# 848

Delta R.T. 0.016 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

Tgt Ion: 43 Resp: 2243

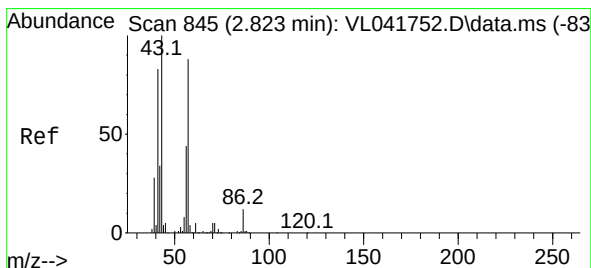
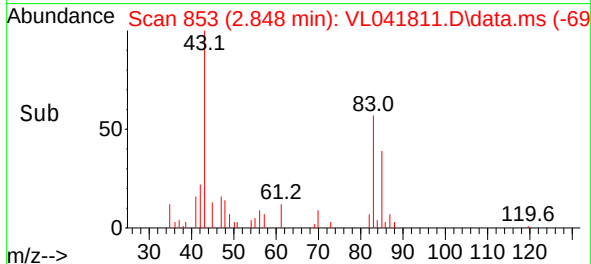
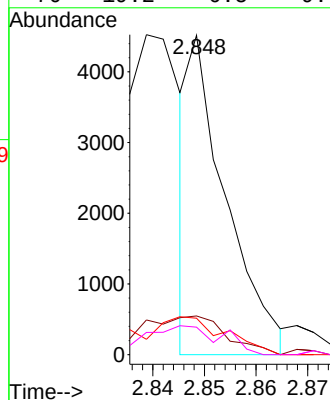
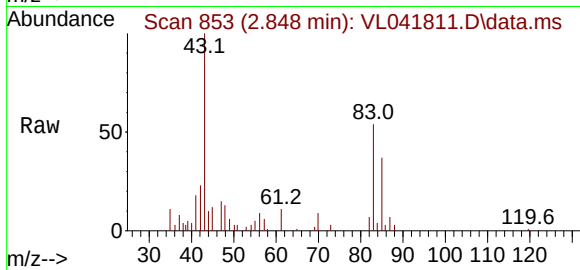
Ion Ratio Lower Upper

43 100

45 34.3 8.1 12.1#

61 26.5 7.0 10.6#

70 19.2 6.5 9.7#



#26

Hexane

Concen: 0.367 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.009 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Tgt Ion: 57 Resp: 3902

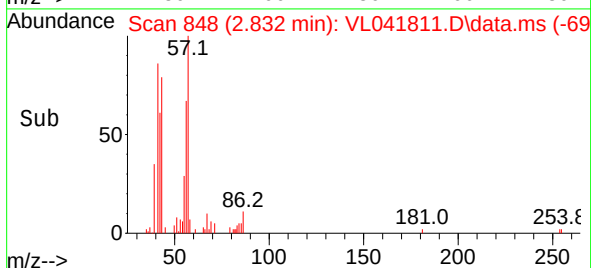
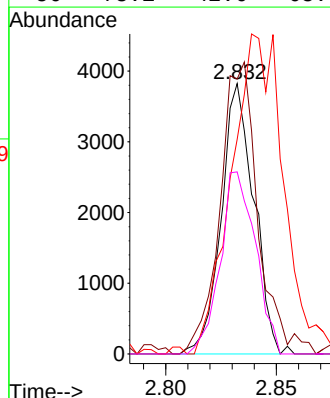
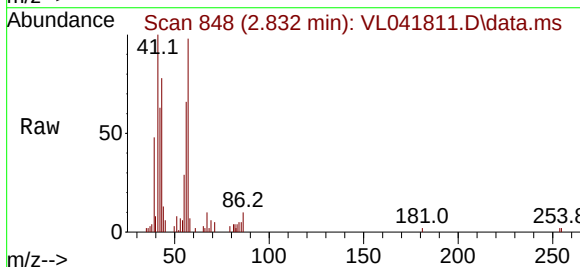
Ion Ratio Lower Upper

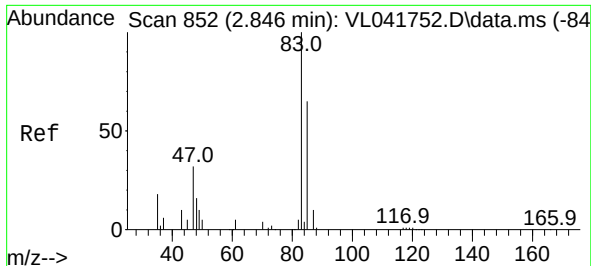
57 100

41 131.0 79.6 119.4#

43 191.5 211.0 316.6#

56 73.1 42.6 63.8#





#29

Chloroform

Concen: 0.245 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.009 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

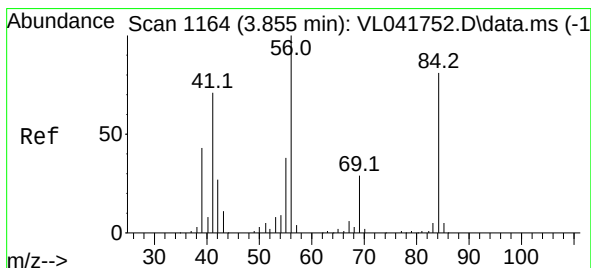
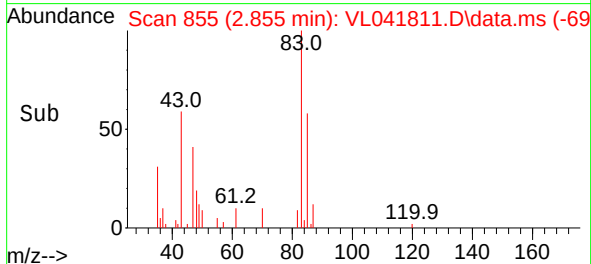
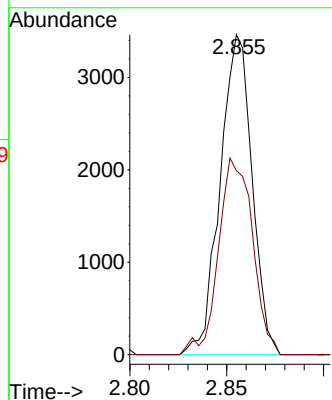
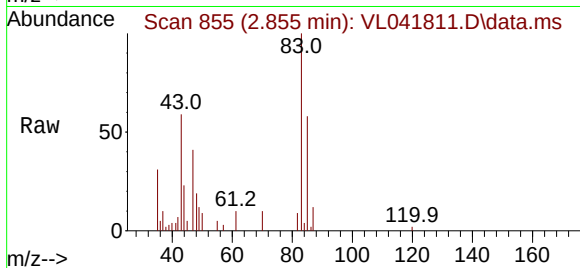
C0AB8

Tgt Ion: 83 Resp: 3971

Ion Ratio Lower Upper

83 100

85 57.6 51.8 77.6



#30

Cyclohexane

Concen: 0.052 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.006 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

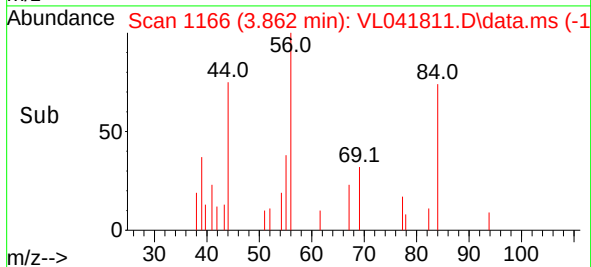
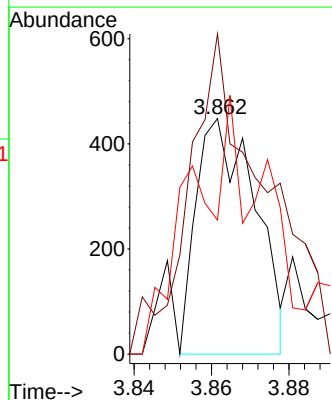
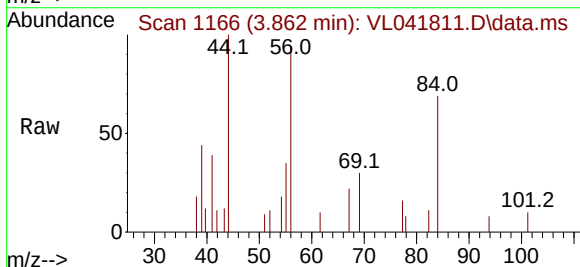
Tgt Ion: 84 Resp: 475

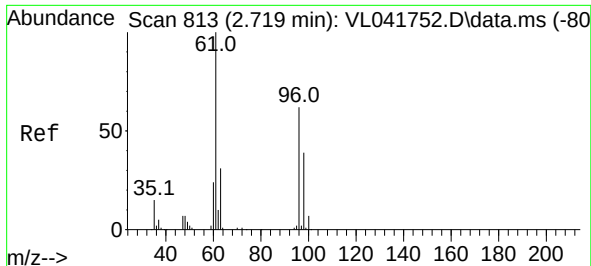
Ion Ratio Lower Upper

84 100

56 174.5 102.3 153.5#

41 161.1 74.0 111.0#

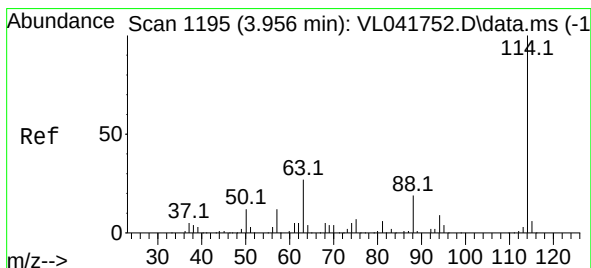
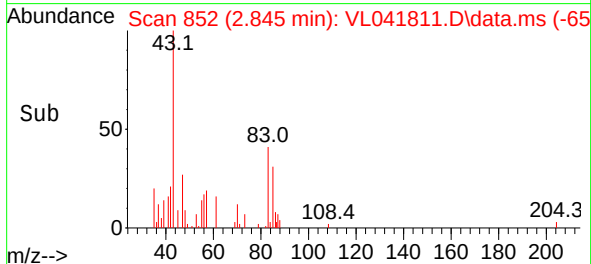
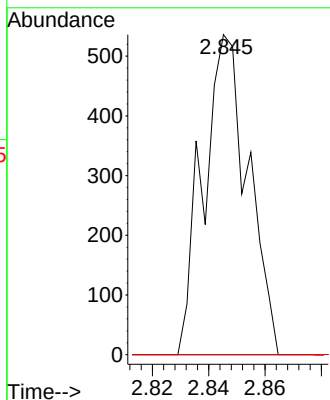
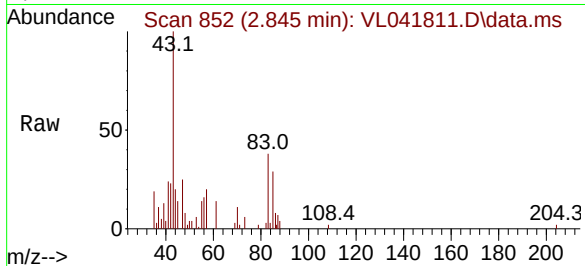




#31
cis-1,2-Dichloroethene
Concen: 0.054 ppbv
RT: 2.845 min Scan# 813
Delta R.T. 0.126 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

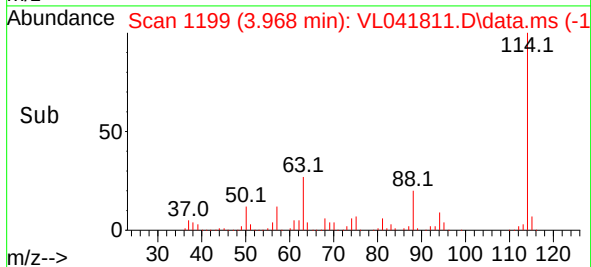
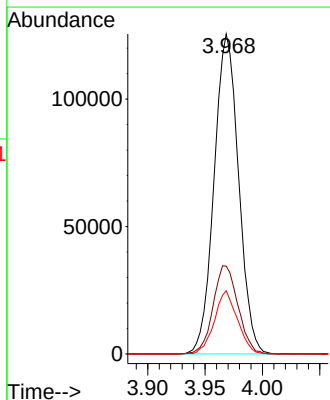
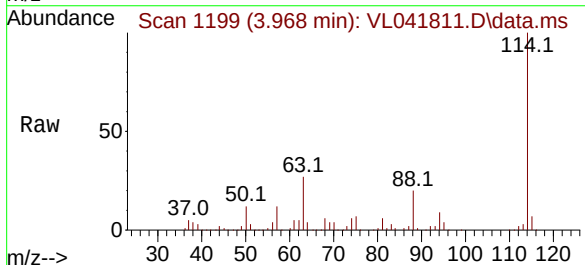
Instrument :
MSVOA_1
ClientSampleId :
C0AB8

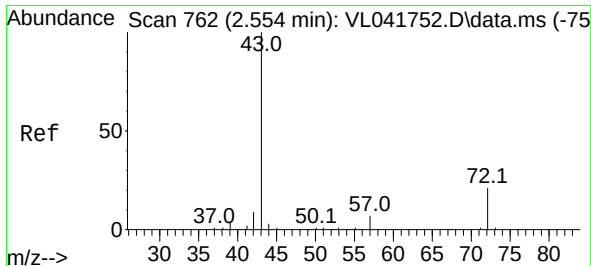
Tgt Ion: 61 Resp: 594
Ion Ratio Lower Upper
61 100
96 0.0 49.7 74.5#
98 0.0 30.8 46.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Tgt Ion: 114 Resp: 186355
Ion Ratio Lower Upper
114 100
63 28.1 21.8 32.8
88 18.6 14.8 22.2

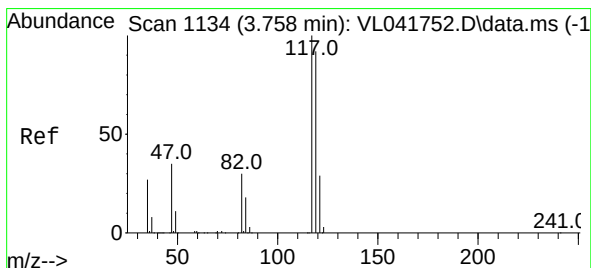
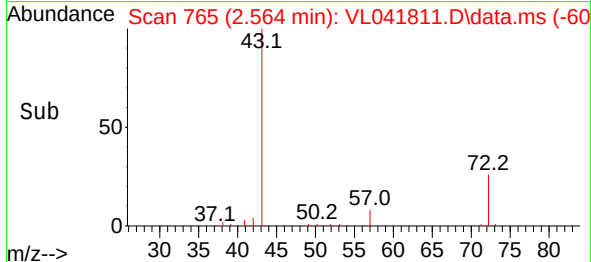
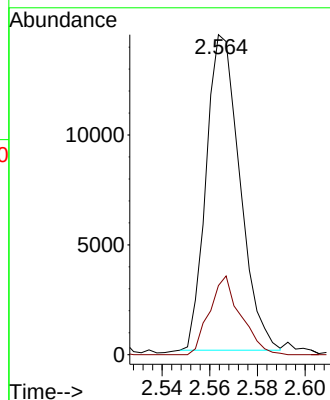
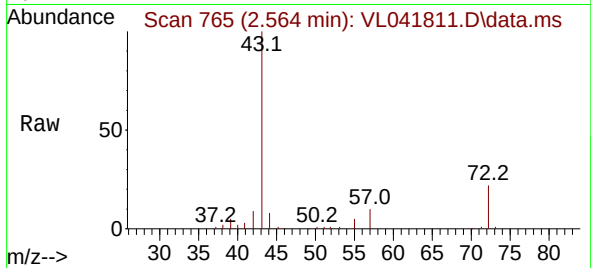




#34
2-Butanone
Concen: 0.941 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

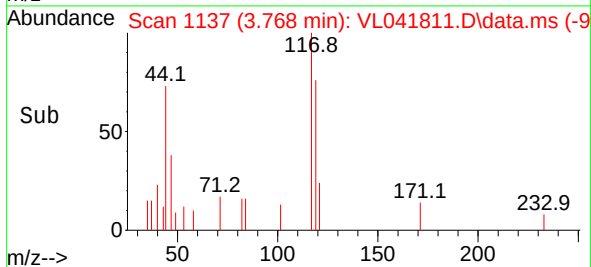
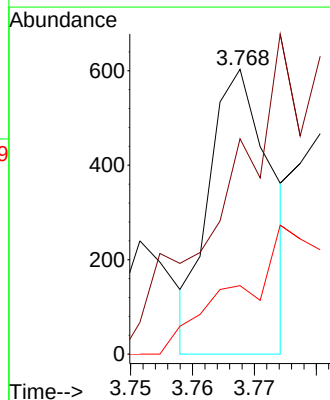
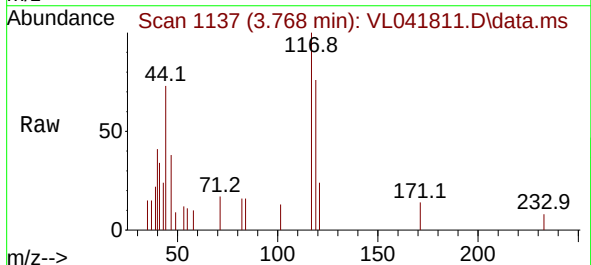
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

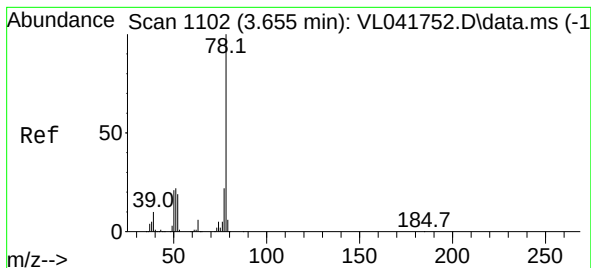
Tgt Ion: 43 Resp: 14105
Ion Ratio Lower Upper
43 100
72 23.0 16.8 25.2



#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL041811.D
Acq: 19 Dec 2024 00:44

Tgt Ion: 117 Resp: 417
Ion Ratio Lower Upper
117 100
119 56.7 73.7 110.5#
121 18.5 23.0 34.4#





#36

Benzene

Concen: 0.415 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.009 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

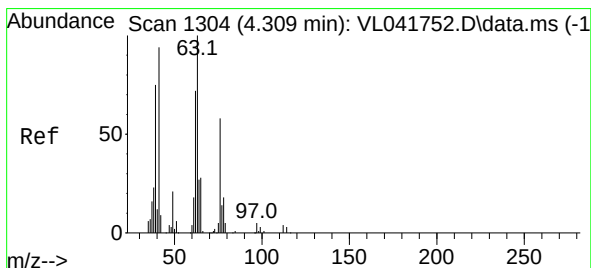
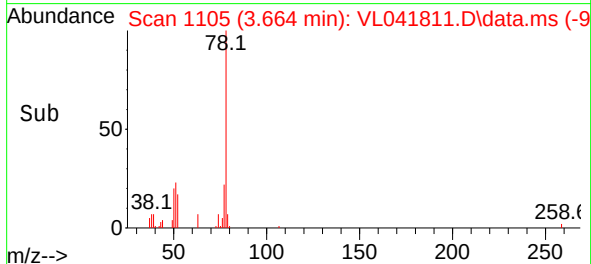
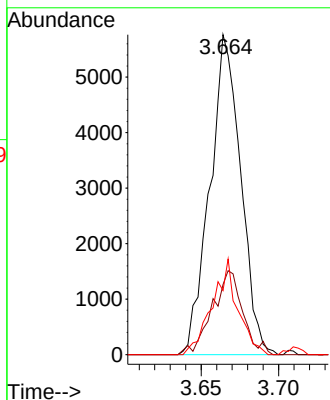
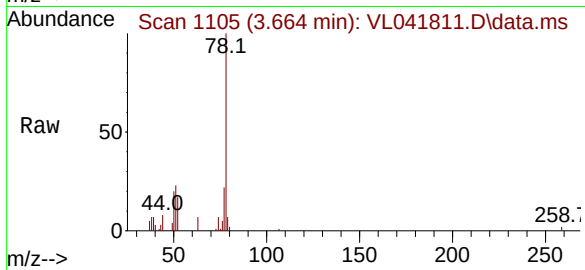
Tgt Ion: 78 Resp: 7992

Ion Ratio Lower Upper

78 100

77 21.9 17.8 26.6

50 20.0 17.2 25.8



#39

1,2-Dichloropropane

Concen: 7.500 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.343 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

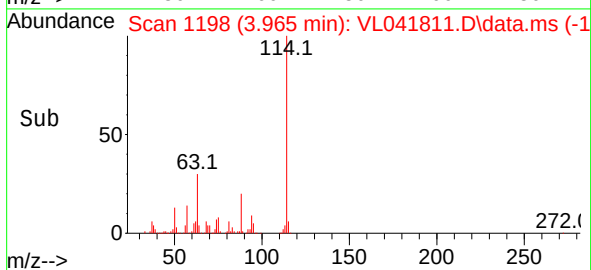
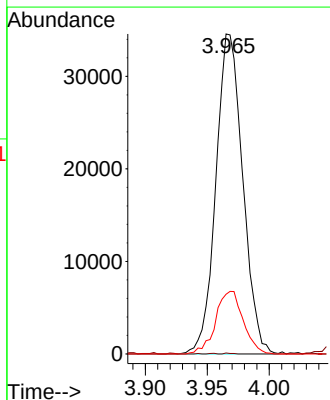
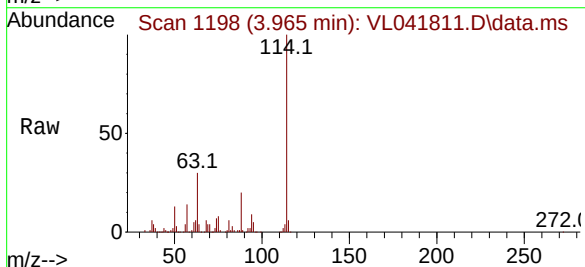
Tgt Ion: 63 Resp: 52285

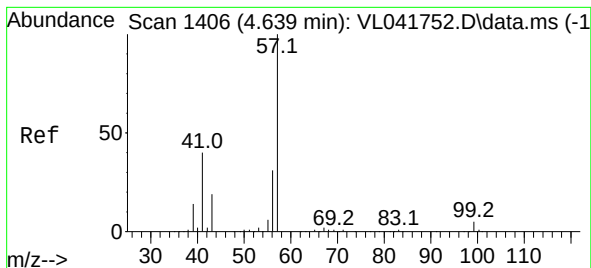
Ion Ratio Lower Upper

63 100

41 0.3 75.3 112.9#

62 18.6 57.3 85.9#





#44

2,2,4-Trimethylpentane

Concen: 0.213 ppbv

RT: 4.655 min Scan# 1406

Delta R.T. 0.016 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

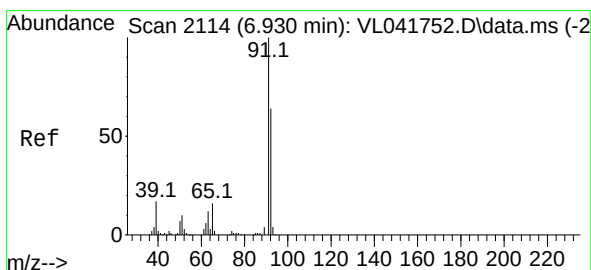
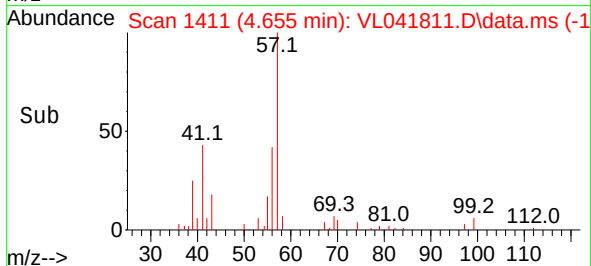
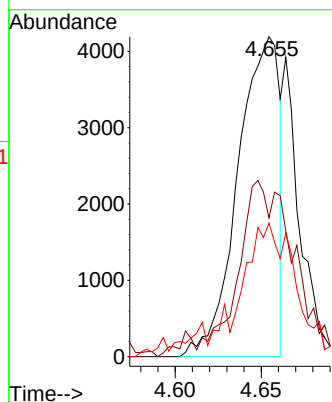
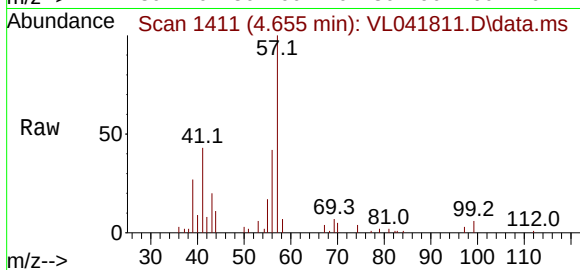
Tgt Ion: 57 Resp: 6997

Ion Ratio Lower Upper

57 100

41 77.1 30.7 46.1#

56 60.9 25.4 38.0#



#53

Toluene

Concen: 0.742 ppbv

RT: 6.949 min Scan# 2120

Delta R.T. 0.019 min

Lab File: VL041811.D

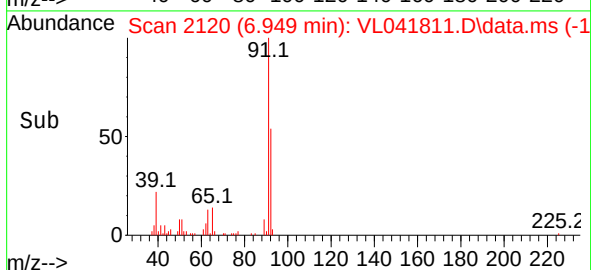
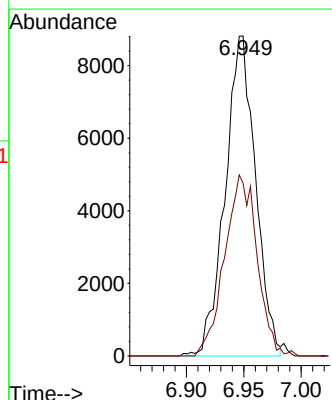
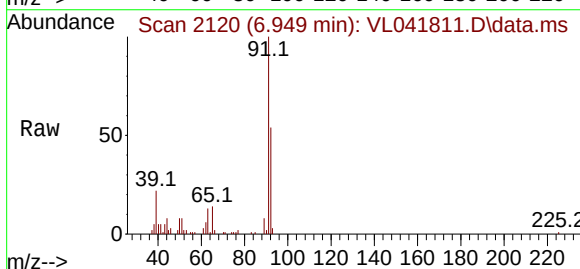
Acq: 19 Dec 2024 00:44

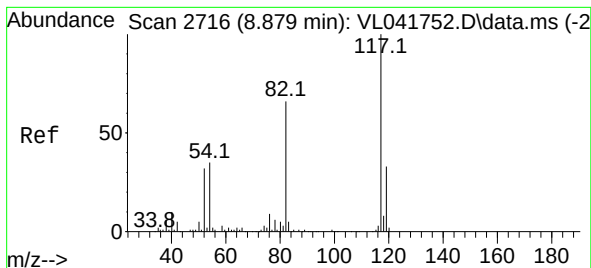
Tgt Ion: 91 Resp: 16221

Ion Ratio Lower Upper

91 100

92 60.5 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: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

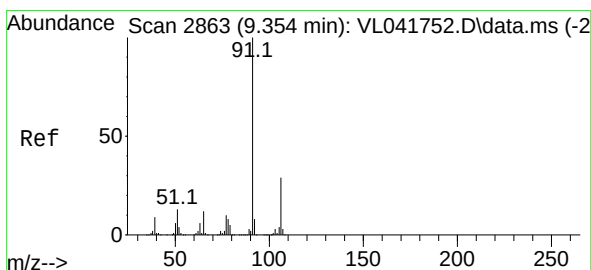
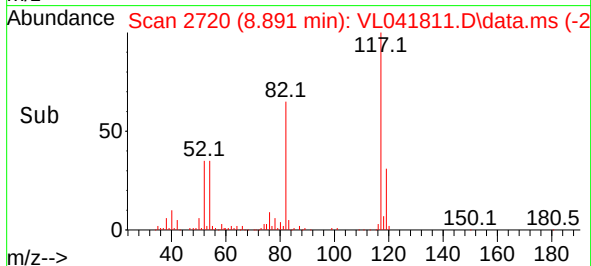
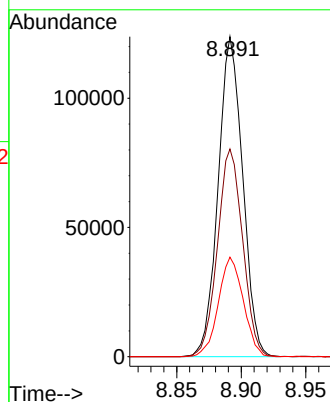
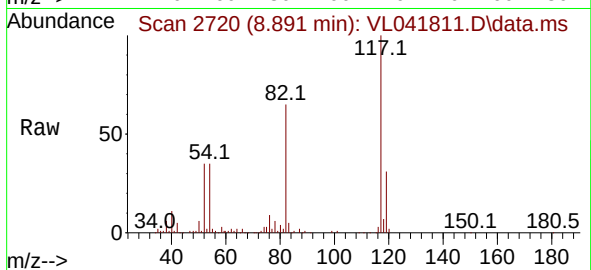
Tgt Ion:117 Resp: 163591

Ion Ratio Lower Upper

117 100

82 66.6 53.8 80.8

119 31.7 26.7 40.1



#58

Ethyl Benzene

Concen: 0.112 ppbv

RT: 9.361 min Scan# 2865

Delta R.T. 0.006 min

Lab File: VL041811.D

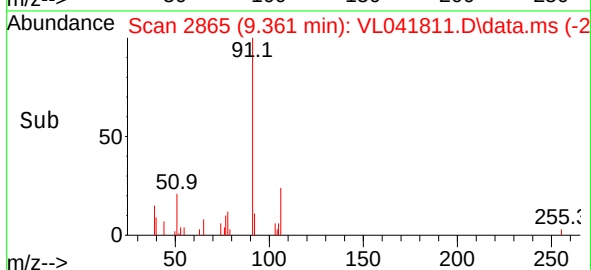
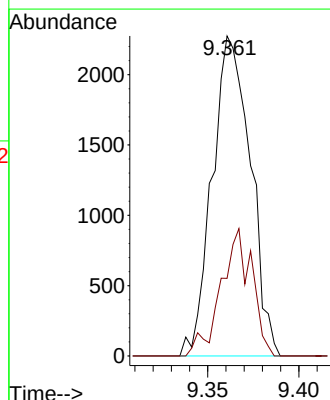
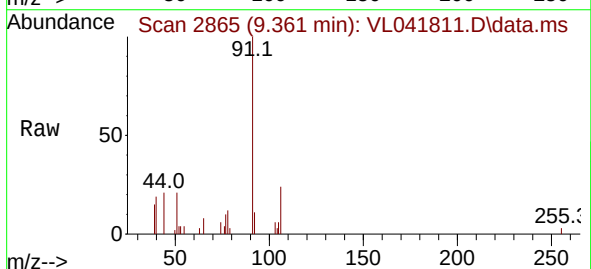
Acq: 19 Dec 2024 00:44

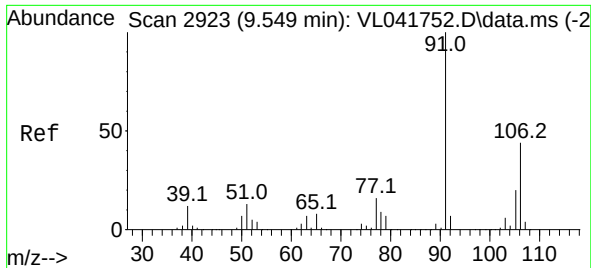
Tgt Ion: 91 Resp: 3309

Ion Ratio Lower Upper

91 100

106 24.3 23.5 35.3





#59

m/p-Xylene

Concen: 0.076 ppbv

RT: 9.561 min Scan# 2923

Delta R.T. 0.013 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

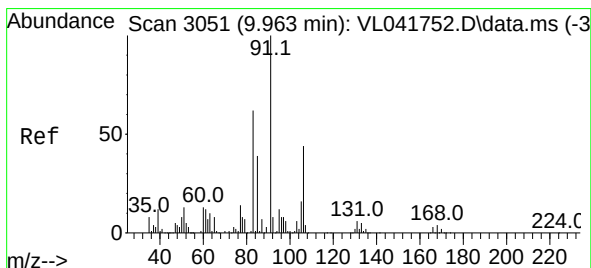
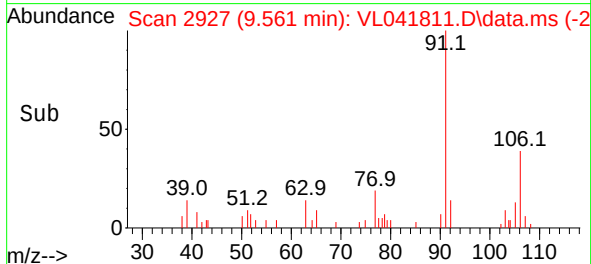
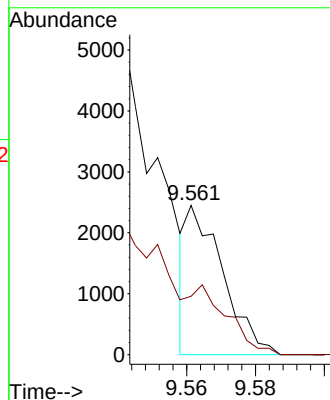
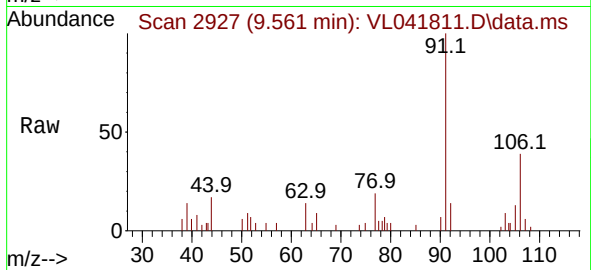
C0AB8

Tgt Ion: 91 Resp: 1793

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.126 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.009 min

Lab File: VL041811.D

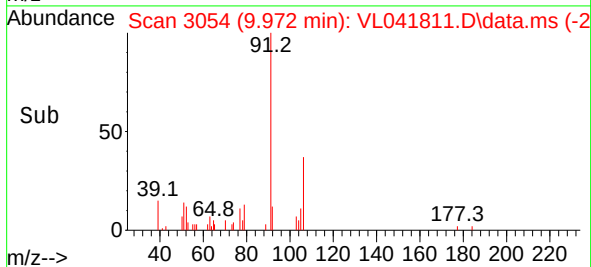
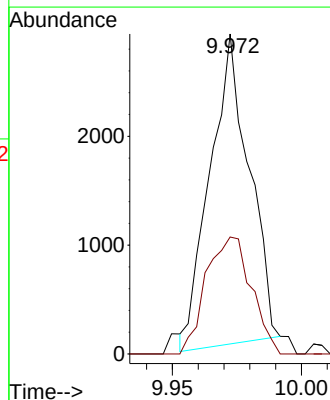
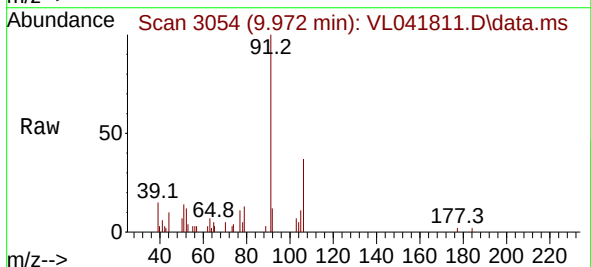
Acq: 19 Dec 2024 00:44

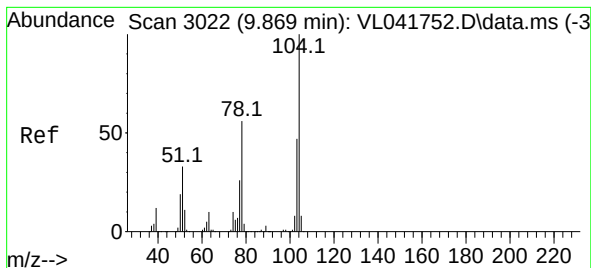
Tgt Ion: 91 Resp: 3000

Ion Ratio Lower Upper

91 100

106 43.6 21.1 63.4





#61

Styrene

Concen: 0.047 ppbv

RT: 9.882 min Scan# 3022

Delta R.T. 0.013 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

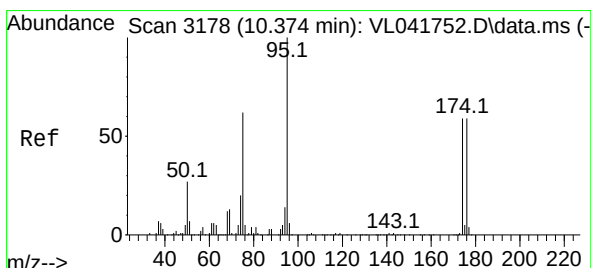
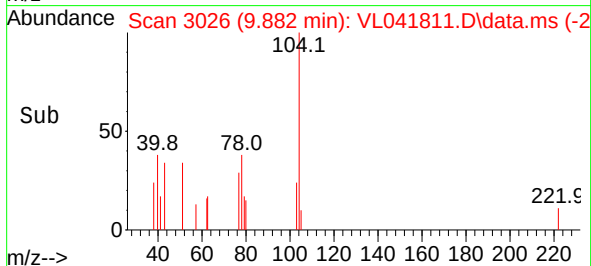
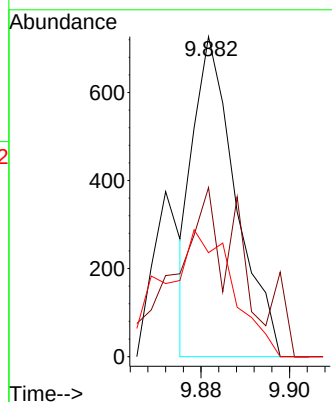
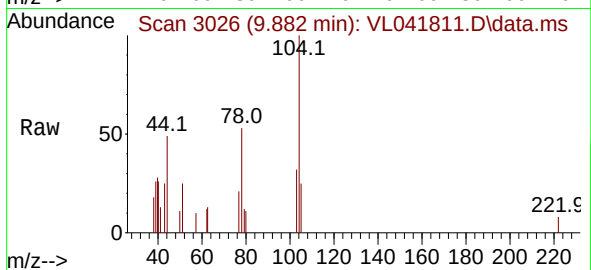
Tgt Ion:104 Resp: 483

Ion Ratio Lower Upper

104 100

78 83.9 43.8 65.6#

103 65.2 37.8 56.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.105 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.009 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

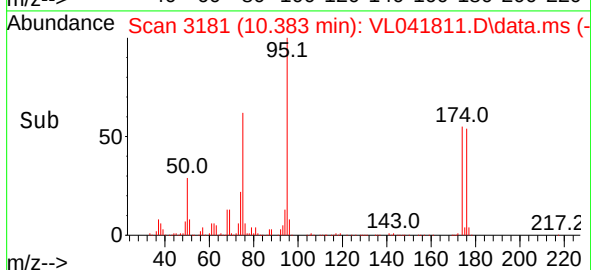
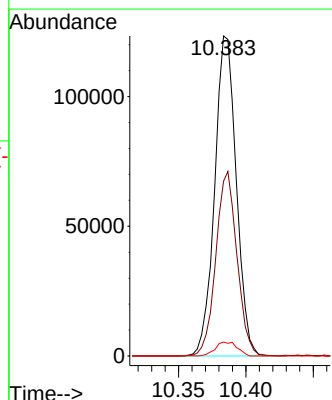
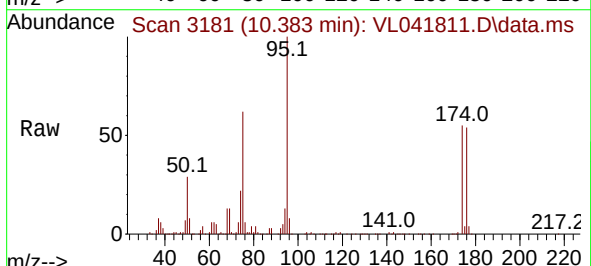
Tgt Ion: 95 Resp: 137750

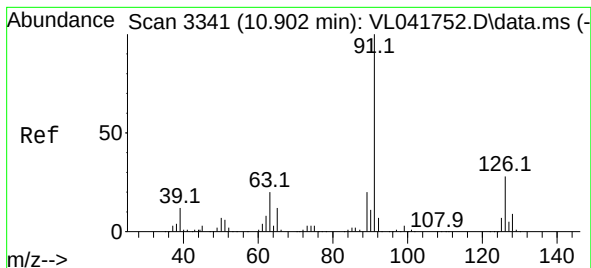
Ion Ratio Lower Upper

95 100

174 56.6 47.6 71.4

175 4.4 3.7 5.5





#71

2-Chlorotoluene

Concen: 0.411 ppbv

RT: 10.866 min Scan# 31

Delta R.T. -0.036 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Instrument :

MSVOA_L

ClientSampleId :

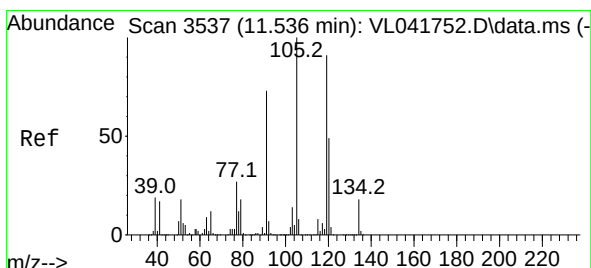
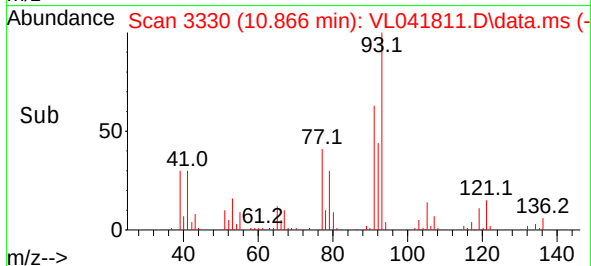
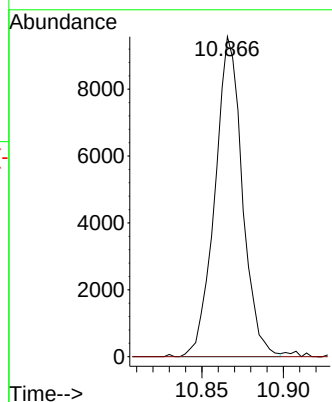
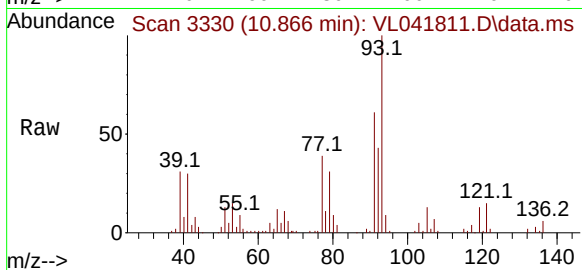
C0AB8

Tgt Ion: 91 Resp: 11185

Ion Ratio Lower Upper

91 100

126 0.0 11.6 46.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.131 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL041811.D

Acq: 19 Dec 2024 00:44

Tgt Ion:105 Resp: 3276

Ion Ratio Lower Upper

105 100

120 27.1 39.0 58.4#

91 13.0 58.1 87.1#

77 13.2 21.8 32.8#

